



# TEST REPORT

## No. I19Z62374-EMC07

for

**SAMSUNG Electronics Co., Ltd.**

**Multi-band GSM/WCDMA/LTE phone with Bluetooth, WLAN**

**Model Name: SM-A215U**

**FCC ID: ZCASMA215U**

with

**Hardware Version: REV1.0**

**Software Version: A215U.001**

**Issued Date: 2020-04-16**

**Note:**

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The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the U.S. Government.

**Test Laboratory:**

**CTTL-Telecommunication Technology Labs, CAICT**

No. 52, Huayuan North Road, Haidian District, Beijing, P. R. China 100191.

Tel: +86(0)10-62304633-2512, Fax: +86(0)10-62304633-2504

Email: [ctl\\_terminals@caict.ac.cn](mailto:ctl_terminals@caict.ac.cn), website: [www.caict.ac.cn](http://www.caict.ac.cn)

## **REPORT HISTORY**

| <b>Report Number</b> | <b>Revision</b> | <b>Description</b>                       | <b>Issue Date</b> |
|----------------------|-----------------|------------------------------------------|-------------------|
| I19Z62374-EMC07      | Rev.0           | 1 <sup>st</sup> edition                  | 2020-03-20        |
| I19Z62374-EMC07      | Rev.1           | Modify client information                | 2020-04-14        |
| I19Z62374-EMC07      | Rev.2           | Modify client information and SW version | 2020-04-16        |

Note: the latest revision of the test report supersedes all previous versions.

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## **1. Test Laboratory**

### **1.1. Introduction & Accreditation**

Telecommunication Technology Labs, CAICT is an ISO/IEC 17025:2005 accredited test laboratory under NATIONAL VOLUNTARY LABORATORY ACCREDITATION PROGRAM (NVLAP) with lab code 600118-0, and is also an FCC accredited test laboratory (CN5017), and ISED accredited test laboratory (CN0066). The detail accreditation scope can be found on NVLAP website.

### **1.2. Testing Location**

#### **1.Location 1: CTTL(Shouxiang)**

Address: No. 51 Shouxiang Science Building, Xueyuan Road, Haidian District, Beijing, P. R. China 100191

#### **2.Location 2: CTTL (BDA)**

Address: No.18A, Kangding Street, Beijing Economic-Technology Development Area, Beijing, P. R. China 100176

### **1.3. Testing Environment**

Normal Temperature: 15-35℃  
Relative Humidity: 20-75%  
Air pressure 980 - 1040 hPa

The climatic requirements above are general exclude the special requirements for dedicated test environments listed in section 5 and some specific test cases in other parts of this report.

### **1.4. Project data**

Testing Start Date: 2020-01-15  
Testing End Date: 2020-03-06

### **1.5. Signature**



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Li Yan

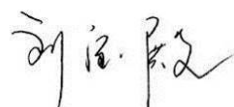
(Prepared this test report)



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Zhang Ying

(Reviewed this test report)



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Liu Baodian

Deputy Director of the laboratory  
(Approved this test report)

## **2. Client Information**

### **2.1. Applicant Information**

Company Name: SAMSUNG Electronics Co., Ltd.  
Address: 19 Chapin Road, Building D, Pine Brook New Jersey United States,  
07058  
City: /  
Postal Code: /  
Country: /  
Contact: Jenni Chun  
Email: j1.chun@samsung.com  
Telephone: 1-973-808-6375

### **2.2. Manufacturer Information**

Company Name: SAMSUNG Electronics Co., Ltd.  
Address: Samsung R5, Maetan dong 129, Samsung ro Youngtong gu, Suwon city 443 742,  
Korea  
City: /  
Postal Code: /  
Country: /  
Contact: JP KIM  
Email: jp426.kim@samsung.com

### **3. Equipment Under Test (EUT) and Ancillary Equipment (AE)**

#### **3.1. About EUT**

|                     |                                                     |
|---------------------|-----------------------------------------------------|
| Description         | Multi-band GSM/WCDMA/LTE phone with Bluetooth, WLAN |
| FCC ID              | ZCASMA215U                                          |
| Antenna             | Internal                                            |
| Power supply        | Battery                                             |
| Extreme vol. Limits | 3.5VDC to 4.4VDC (nominal: 3.8VDC)                  |

Note: Components list, please refer to documents of the manufacturer; it is also included in the original test record of CTTL, Telecommunication Technology Labs, CAICT.

#### **3.2. Internal Identification of EUT used during the test**

| EUT ID* | IMEI            | HW Version | SW Version |
|---------|-----------------|------------|------------|
| EUT4    | 354230110009631 | REV1.0     | A215U.001  |

\*EUT ID: is used to identify the test sample in the lab internally.

#### **3.3. Internal Identification of AE used during the test**

| AE ID* | Description | SN | Revision |
|--------|-------------|----|----------|
| AE1    | battery     | /  | /        |

AE1

|                 |                                   |
|-----------------|-----------------------------------|
| Model           | NVT-WT-N6                         |
| Manufacturer    | Dongguan NVT Technology Co., Ltd. |
| Capacitance     | 3900mAh                           |
| Nominal voltage | 3.82V                             |

\*AE ID: is used to identify the test sample in the lab internally.

### **3.4. General Description**

Equipment Under Test (EUT) is a model of Multi-band GSM/WCDMA/LTE phone with Bluetooth, WLAN with integrated antenna.

Manual and specifications of the EUT were provided to fulfil the test.

Samples undergoing test were selected by the client.

### **3.5. EUT set-ups**

| <b>EUT Set-up No.</b> | <b>Combination of EUT and AE</b> | <b>Remarks</b>     |
|-----------------------|----------------------------------|--------------------|
| Set.10                | EUT4 + AE1                       | ERP/EIRP/RSE tests |

## 4. Reference Documents

### 4.1. Reference Documents for testing

The following documents listed in this section are referred for testing.

| Reference      | Title                                                                                             | Version            |
|----------------|---------------------------------------------------------------------------------------------------|--------------------|
| FCC Part 90    | PRIVATE LAND MOBILE RADIO SERVICES                                                                | 10-1-19<br>Edition |
| ANSI C63.26    | American National Standard for Compliance Testing of Transmitters Used in Licensed Radio Services | 2015               |
| ANSI/TIA-603-E | Land Mobile FM or PM Communications Equipment Measurement and Performance Standards               | 2016               |
| KDB 971168 D01 | Measurement Guidance for Certification of Licensed Digital Transmitters                           | v03r01             |

## 5. LABORATORY ENVIRONMENT

**Fully-anechoic chamber FAC-3** (9 meters×6.5 meters×4 meters) did not exceed following limits along the EMC testing:

|                                                 |                                                   |
|-------------------------------------------------|---------------------------------------------------|
| Temperature                                     | Min. = 15 °C, Max. = 35 °C                        |
| Relative humidity                               | Min. = 15 %, Max. = 75 %                          |
| Shielding effectiveness                         | 0.014MHz - 1MHz, >60dB;<br>1MHz - 1000MHz, >90dB. |
| Electrical insulation                           | > 2 MΩ                                            |
| Ground system resistance                        | < 4 Ω                                             |
| Site voltage standing-wave ratio ( $S_{VSWR}$ ) | Between 0 and 6 dB, from 1GHz to 18GHz            |
| Uniformity of field strength                    | Between 0 and 6 dB, from 80 to 6000 MHz           |

**Semi-anechoic chamber SAC-2** (10 meters×6.7meters×6.1meters) did not exceed following limits along the EMC testing:

|                                                 |                                                   |
|-------------------------------------------------|---------------------------------------------------|
| Temperature                                     | Min. = 15 °C, Max. = 35 °C                        |
| Relative humidity                               | Min. = 15 %, Max. = 75 %                          |
| Shielding effectiveness                         | 0.014MHz - 1MHz, >60dB;<br>1MHz - 1000MHz, >90dB. |
| Electrical insulation                           | > 2 MΩ                                            |
| Ground system resistance                        | < 4 Ω                                             |
| Normalised site attenuation (NSA)               | < ± 4 dB, 3m distance, from 30 to 1000 MHz        |
| Site voltage standing-wave ratio ( $S_{VSWR}$ ) | Between 0 and 6 dB, from 1GHz to 18GHz            |
| Uniformity of field strength                    | Between 0 and 6 dB, from 80 to 6000 MHz           |

## 6. SUMMARY OF TEST RESULTS

### 6.1. Summary of test results

| Abbreviations used in this clause: |    |                |
|------------------------------------|----|----------------|
| Verdict Column                     | P  | Pass           |
|                                    | F  | Fail           |
|                                    | NA | Not applicable |
|                                    | NM | Not measured   |

#### CDMA800 BC10

| Items | Test Name      | Clause in FCC rules | Section in this report | Verdict |
|-------|----------------|---------------------|------------------------|---------|
| 1     | Output Power   | 90.635(b)           | 5.4                    | P       |
| 2     | Emission Limit | 90.691, 2.1051      | 5.5                    | P       |

### 6.2. Statements

The test cases listed in section 6.1 of this report for the EUT specified in section 3 were performed by CTTL according to the standards or reference documents in section 4.1

The EUT met all applicable requirements of the standards or reference documents in section 4.1.

This report only deals with the CDMA functions among the features described in section 3.

## 7. Test Equipments Utilized

| NO. | NAME                                 | TYPE     | PRODUCER   | SERIES NUMBER | CAL. DUE DATE | CAL. INTERVAL |
|-----|--------------------------------------|----------|------------|---------------|---------------|---------------|
| 1.  | EMI Antenna                          | VULB9163 | 9163-483   | Schwarzbeck   | 2020-09-16    | 1 year        |
| 2.  | EMI Antenna                          | 3117     | 00058889   | ETS-Lindgren  | 2020-11-18    | 1 year        |
| 3.  | EMI Antenna                          | 3117     | 00139065   | ETS-Lindgren  | 2020-10-15    | 1 year        |
| 4.  | EMI Antenna                          | 9117     | 167        | Schwarzbeck   | 2020-05-27    | 1 year        |
| 5.  | Signal Generator                     | N5183A   | MY49060052 | R&S           | 2020-06-24    | 1 year        |
| 6.  | Test Receiver                        | E4440A   | MY48250642 | Agilent       | 2020-03-18    | 1 year        |
| 7.  | Universal Radio Communication Tester | 8960     | MY48363198 | Agilent       | 2020-06-26    | 1 year        |
| 8.  | Power Amplifier                      | 5S1G4    | 0341863    | AR            | /             |               |

### Test Software Utilized

| Test Item    | Test Software and Version | Software Vendor |
|--------------|---------------------------|-----------------|
| ERP/EIRP/RSE | Tile V7.2.3.5             | ETS-Lindgren    |

## **ANNEX A: MEASUREMENT RESULTS**

### **A.1 OUTPUT POWER**

#### **Reference**

FCC: CFR Part 90.635, and 2.1053

#### **A.1.1 Summary**

During the process of testing, the EUT was controlled via Agilent Universal Radio Communication Tester to ensure max power transmission and proper modulation.

This result contains peak output power and ERP/EIRP measurements for the EUT.

In all cases, output power is within the specified limits.

#### **A.1.2 Radiated**

##### **A.1.2.1 Description**

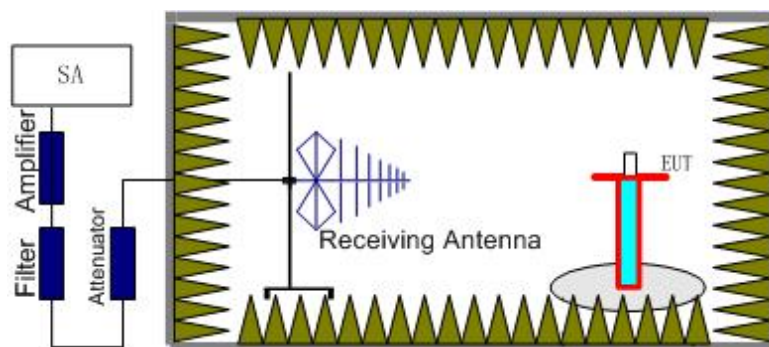
This is the test for the maximum radiated power from the EUT.

Rule Part 90.635(b) specifies "The maximum output power of the transmitter for mobile stations is 100 watts (20 dBw)."

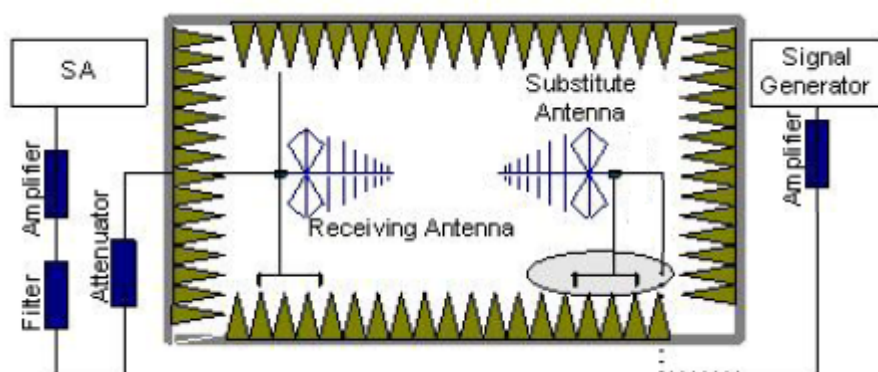
##### **A.1.2.2 Method of Measurement**

The measurements procedures in TIA-603-E-2016 are used.

1. EUT was placed on a 1.5 meter high non-conductive stand at a 3 meter test distance from the receive antenna. A receiving antenna was placed on the antenna mast 3 meters from the EUT for emission measurements. The height of receiving antenna is 1.5m. The test setup refers to figure below. Detected emissions were maximized at each frequency by rotating the EUT through 360° and adjusting the receiving antenna polarization. The radiated emission measurements of all transmit frequencies in three channels (High, Middle, Low) were measured with rms detector.



2. The EUT is then put into continuously transmitting mode at its maximum power level during the test. And the maximum value of the receiver should be recorded as (Pr).
3. The EUT shall be replaced by a substitution antenna. The test setup refers to figure below.



In the chamber, a substitution antenna for the frequency band of interest is placed at the reference point of the chamber. An RF signal source for the frequency band of interest is connected to the substitution antenna with a cable that has been constructed to not interfere with the radiation pattern of the antenna. A power ( $P_{Mea}$ ) is applied to the input of the substitution antenna. Adjust the level of the signal generator output until the value of the receiver reaches the previously recorded ( $P_r$ ). The power of signal source ( $P_{Mea}$ ) is recorded. The test should be performed by rotating the test item and adjusting the receiving antenna polarization.

4. An amplifier should be connected to the Signal Source output port. And the cable should be connected between the amplifier and the substitution antenna.  
The cable loss ( $P_{cl}$ ), the substitution antenna Gain ( $G_a$ ) and the amplifier Gain ( $P_{Ag}$ ) should be recorded after test.  
The measurement results are obtained as described below:  
Power (EIRP) =  $P_{Mea} + P_{Ag} - P_{cl} + G_a$
5. This value is EIRP since the measurement is calibrated using an antenna of known gain (Unit dBi) and known input power.
6. ERP can be calculated from EIRP by subtracting the gain of the dipole, ERP = EIRP - 2.15.

For test layout photo, please refer to Pic.1 in Annex B.

### CDMA800(BC10)- ERP

#### Limits

| Band          | Peak ERP (dBm) |
|---------------|----------------|
| CDMA800(BC10) | ≤50dBm         |

#### Measurement result

##### 1x RTT

| Frequency (MHz) | $P_{Mea}$ (dBm) | $P_{cl}$ (dB) | $P_{Ag}$ (dB) | $G_a$ (dBi) | Correction (dB) | Peak ERP(dBm) | Polarization |
|-----------------|-----------------|---------------|---------------|-------------|-----------------|---------------|--------------|
| 817.88          | -24.70          | 2.18          | 45.87         | 1.03        | 2.15            | 17.87         | H            |
| 823.10          | -23.12          | 2.24          | 45.80         | 0.10        | 2.15            | 18.39         | H            |

Sample calculation: 823.10MHz

$$\begin{aligned} \text{Peak ERP (dBm)} &= P_{Mea}(-23.12\text{dBm}) + G_a (0.10\text{dBi}) + P_{Ag} (45.80\text{dB}) - P_{cl} (2.24\text{dB}) - 2.15 \\ &= 18.39 \text{ dBm} \end{aligned}$$

**Ev-Do**

| Frequency<br>(MHz) | P <sub>Mea</sub><br>(dBm) | P <sub>cl</sub><br>(dB) | P <sub>Ag</sub><br>(dB) | G <sub>a</sub><br>(dBi) | Correction<br>(dB) | Peak<br>ERP(dBm) | Polarization |
|--------------------|---------------------------|-------------------------|-------------------------|-------------------------|--------------------|------------------|--------------|
| 817.88             | -24.72                    | 2.18                    | 45.87                   | 1.03                    | 2.15               | 17.85            | H            |
| 823.10             | -23.08                    | 2.24                    | 45.80                   | 0.10                    | 2.15               | 18.43            | H            |

Sample calculation: 823.10MHz

$$\begin{aligned} \text{Peak ERP (dBm)} &= P_{\text{Mea}}(-23.12\text{dBm}) + G_a(0.10\text{dBi}) + P_{\text{Ag}}(45.80\text{dB}) - P_{\text{cl}}(2.24\text{dB}) - 2.15 \\ &= 18.43 \text{ dBm} \end{aligned}$$

Note: Expanded measurement uncertainty for is  $U = 2.84 \text{ dB}$ ,  $k=2$ .

## A.2 EMISSION LIMIT

### Reference

FCC: CFR Part 90.691 and 2.1053

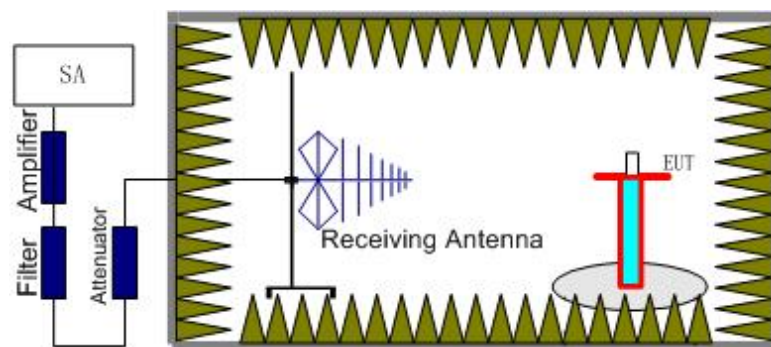
#### A.2.1 Measurement Method

The measurements procedures in TIA-603-E-2016 are used. This measurement is carried out in fully-anechoic chamber 3.

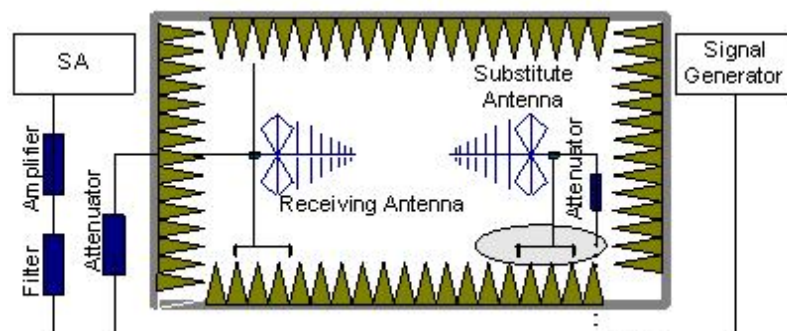
The spectrum was scanned from 30 MHz to the 10th harmonic of the highest frequency generated within the equipment, which is the transmitted carrier that can be as high as 1910 MHz. The resolution bandwidth is set 1MHz as outlined in CFR Part 90.691. The spectrum was scanned with the mobile station transmitting at carrier frequencies that pertain to low, mid and high channels of CDMA800 BC10.

#### The procedure of radiated spurious emissions is as follows:

1. EUT was placed on a 1.5 meter high non-conductive stand at a 3 meter test distance from the receive antenna. A receiving antenna was placed on the antenna mast 3 meters from the EUT for emission measurements. The height of receiving antenna is 1.5m. The test setup refers to figure below. Detected emissions were maximized at each frequency by rotating the EUT through 360° and adjusting the receiving antenna polarization. The radiated emission measurements of all non-harmonic and harmonics of the transmit frequency through the 10th harmonic were measured with peak detector.



2. The EUT is then put into continuously transmitting mode at its maximum power level during the test. And the maximum value of the receiver should be recorded as (Pr).
3. The EUT shall be replaced by a substitution antenna. The test setup refers to figure below.



In the chamber, an substitution antenna for the frequency band of interest is placed at the reference point of the chamber. An RF Signal source for the frequency band of interest is connected to the substitution antenna with a cable that has been constructed to not interfere with the radiation pattern of the antenna. A power ( $P_{Mea}$ ) is applied to the input of the substitution antenna. Adjust the level of the signal generator output until the value of the receiver reaches the previously recorded ( $P_r$ ). The power of signal source ( $P_{Mea}$ ) is recorded. The test should be performed by rotating the test item and adjusting the receiving antenna polarization.

4. The Path loss ( $P_{pl}$ ) between the Signal Source with the Substitution Antenna and the Substitution Antenna Gain ( $G_a$ ) should be recorded after test.

An amplifier should be connected in for the test.

The Path loss ( $P_{pl}$ ) is the summation of the cable loss and the gain of the amplifier.

The measurement results are obtained as described below:

$$\text{Power (EIRP)} = P_{Mea} - P_{pl} + G_a$$

5. This value is EIRP since the measurement is calibrated using an antenna of known gain (unit: dBi) and known input power.
6. ERP can be calculated from EIRP by subtracting the gain of the dipole,  $ERP = EIRP - 2.15\text{dB}$ .

### A.2.2 Measurement Limit

CFR Part 90.691 all specify that the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power ( $P$ ) by a factor of at least  $43 + 10 \log(P)$  dB. The specification that emissions shall be attenuated below the transmitter power ( $P$ ) by at least  $43 + 10 \log(P)$  dB, translates in the relevant power range (1 to 0.001 W) to -13 dBm. At 1 W the specified minimum attenuation becomes 43 dB and relative to a 30 dBm (1 W) carrier becomes a limit of -13 dBm. At 0.001 W (0 dBm) the minimum attenuation is 13 dB, which again yields a limit of -13 dBm. In this way a translation of the specification from relative to absolute terms is carried out.

### A.2.3 Measurement Results

Radiated emissions measurements were made only at the upper and lower carrier frequencies of the CDMA BC10 (817.9MHz and 823.1MHz). It was decided that measurements at these two carrier frequencies would be sufficient to demonstrate compliance with emissions limits because it was seen that all the significant spurs occur well outside the band and no radiation was seen from a carrier in one block of the CDMA BC10 into any of the other blocks. The equipment must still, however, meet emissions requirements with the carrier at all frequencies over which it is capable of operating and it is the manufacturer's responsibility to verify this.

**The worst case**

**CDMA BC10, Channel 475**

| Frequency (MHz) | P <sub>Mea</sub> (dBm) | Path Loss(dB) | Antenna Gain(dBi) | Correction (dB) | Peak ERP(dBm) | Limit (dBm) | Polarization |
|-----------------|------------------------|---------------|-------------------|-----------------|---------------|-------------|--------------|
| 1634.01         | -60.94                 | 3.55          | 5.26              | 2.15            | -61.38        | -13.00      | V            |
| 2454.00         | -53.51                 | 4.58          | 5.96              | 2.15            | -54.28        | -13.00      | V            |
| 3270.02         | -55.62                 | 5.28          | 7.65              | 2.15            | -55.40        | -13.00      | V            |
| 4093.02         | -55.69                 | 6.04          | 8.99              | 2.15            | -54.89        | -13.00      | H            |
| 4904.01         | -55.84                 | 6.73          | 9.80              | 2.15            | -54.92        | -13.00      | H            |
| 5721.01         | -54.19                 | 7.30          | 10.56             | 2.15            | -53.08        | -13.00      | H            |

**CDMA BC10, Channel 684**

| Frequency (MHz) | P <sub>Mea</sub> (dBm) | Path Loss(dB) | Antenna Gain(dBi) | Correction (dB) | Peak ERP(dBm) | Limit (dBm) | Polarization |
|-----------------|------------------------|---------------|-------------------|-----------------|---------------|-------------|--------------|
| 1648.01         | -60.85                 | 3.56          | 5.23              | 2.15            | -61.33        | -13.00      | H            |
| 2466.00         | -52.83                 | 4.59          | 6.00              | 2.15            | -53.57        | -13.00      | H            |
| 3289.02         | -55.03                 | 5.29          | 7.69              | 2.15            | -54.78        | -13.00      | V            |
| 4113.02         | -55.82                 | 6.04          | 9.01              | 2.15            | -55.00        | -13.00      | H            |
| 4941.01         | -55.71                 | 6.71          | 9.84              | 2.15            | -54.73        | -13.00      | V            |
| 5760.01         | -53.89                 | 7.25          | 10.55             | 2.15            | -52.74        | -13.00      | H            |

Sample calculation: 1648.01MHz

$$\text{Peak ERP (dBm)} = P_{\text{Mea}}(-60.85 \text{ dBm}) - P_{\text{cl}}(3.56\text{dB}) + G_{\text{a}}(5.23 \text{ dBi}) - 2.15\text{dBm} \\ = -61.33 \text{ dBm}$$

Note: Expanded measurement uncertainty for this test item is U = 5.16 dB, k = 2.

**ANNEX B: Persons involved in this testing**

| Test Item                     | Tester       |
|-------------------------------|--------------|
| Out Power                     | Chen Tianwei |
| Transmitter Spurious Emission | Chen Tianwei |

**\*\*\*END OF REPORT\*\*\***