

# FCC RF Test Report

## (LTE)

**Applicant:** INFINIX MOBILITY LIMITED

**Address of Applicant:** FLAT 39 8/F BLOCK D WAH LOK INDUSTRIAL CENTRE 31-35 SHAN MEI STREET FOTAN NT HONGKONG

**Equipment Under Test (EUT)**

Product Name: Mobile Phone

Model No.: X676C

Trade Mark: Infinix

**FCC ID:** 2AIZN-X676C

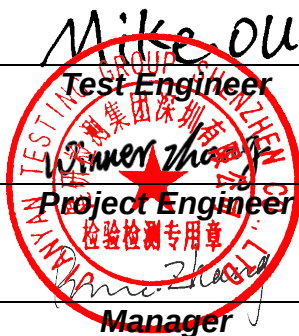
**Applicable Standards:** FCC CFR Title 47 Part 2, 22H, 24E, 27L&M

**Date of Sample Receipt:** 18 May, 2022

**Date of Test:** 19 May, to 06 Jun., 2022

**Date of Report Issued:** 15 Jun., 2022

**Test Result:** PASS

**Tested by:***Mike Ou***Date:***15 Jun., 2022***Reviewed by:***Wenwen Zhang***Date:***15 Jun., 2022***Approved by:***Wenwen Zhang***Date:***15 Jun., 2022*

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in above the application standard version. Test results reported herein relate only to the item(s) tested.

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## 2. Version

| Version No. | Date          | Description   |
|-------------|---------------|---------------|
| 00          | 07 Jun., 2022 | Original      |
| 01          | 15 Jun., 2022 | Update page 4 |
|             |               |               |
|             |               |               |
|             |               |               |

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## 4. General Information

### 4.1 Client Information

|               |                                                                                                                        |
|---------------|------------------------------------------------------------------------------------------------------------------------|
| Applicant:    | INFINIX MOBILITY LIMITED                                                                                               |
| Address:      | FLAT 39 8/F BLOCK D WAH LOK INDUSTRIAL CENTRE 31-35 SHAN MEI STREET FOTAN NT HONGKONG                                  |
| Manufacturer: | INFINIX MOBILITY LIMITED                                                                                               |
| Address:      | FLAT 39 8/F BLOCK D WAH LOK INDUSTRIAL CENTRE 31-35 SHAN MEI STREET FOTAN NT HONGKONG                                  |
| Factory:      | SHENZHEN TECNO TECHNOLOGY CO., LTD.                                                                                    |
| Address:      | 101, Building 24, Waijing Industrial Park, Fumin Community, Fucheng Street, Longhua District, Shenzhen City, P.R.China |

### 4.2 General Description of E.U.T.

|                            |                                                                                                                                                      |                                  |                         |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-------------------------|
| Product Name:              | Mobile Phone                                                                                                                                         |                                  |                         |
| Model No.:                 | X676C                                                                                                                                                |                                  |                         |
| Operation Frequency Range: | LTE band 2:                                                                                                                                          | Tx: 1850 MHz - 1910 MHz          | Rx: 1930 MHz - 1990 MHz |
|                            | LTE band 4:                                                                                                                                          | Tx: 1710 MHz - 1755 MHz          | Rx: 2110 MHz - 2155 MHz |
|                            | LTE band 5:                                                                                                                                          | Tx: 824 MHz - 849 MHz            | Rx: 869 MHz - 894 MHz   |
|                            | LTE band 7:                                                                                                                                          | Tx: 2500 MHz - 2570 MHz          | Rx: 2620 MHz - 2690 MHz |
|                            | LTE band 38:                                                                                                                                         | Tx: 2570 MHz - 2620 MHz          | Rx: 2570 MHz - 2620 MHz |
|                            | LTE band 41:                                                                                                                                         | Tx: 2535MHz ~ 2655MHz            | Rx: 2535MHz ~ 2655MHz   |
| Modulation Type:           | <input checked="" type="checkbox"/> QPSK <input checked="" type="checkbox"/> 16QAM <input checked="" type="checkbox"/> 64QAM(only supports downlink) |                                  |                         |
| Antenna Type:              | Internal Antenna                                                                                                                                     |                                  |                         |
| Antenna Gain:              | LTE band 2:                                                                                                                                          | -0.76 dBi (declare by Applicant) |                         |
|                            | LTE band 4:                                                                                                                                          | 0.32 dBi (declare by Applicant)  |                         |
|                            | LTE band 5:                                                                                                                                          | -3.38 dBi (declare by Applicant) |                         |
|                            | LTE band 7:                                                                                                                                          | 0.46 dBi (declare by Applicant)  |                         |
|                            | LTE band 38:                                                                                                                                         | 0.46 dBi (declare by Applicant)  |                         |
|                            | LTE band 41:                                                                                                                                         | 0.46 dBi (declare by Applicant)  |                         |
| Power Supply:              | Rechargeable Li-ion Polymer Battery DC3.87V, 4900mAh                                                                                                 |                                  |                         |
| AC Adapter:                | Model: U330XSA<br>Input: AC100-240V, 50/60Hz, 1.5A<br>Output: DC 5.0V, 3.0A, 15.0W or 10.0V, 3.3A, 33.0W MAX                                         |                                  |                         |
| Test Sample Condition:     | The test samples were provided in good working order with no visible defects.                                                                        |                                  |                         |

### 4.3 Test Model and Environment

| Test Mode:                                                                                                                                                                                                                                                                                                                                                                              |                                                                 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|
| QPSK mode:                                                                                                                                                                                                                                                                                                                                                                              | Keep the EUT communication with simulated station in QPSK mode  |
| 16QAM mode:                                                                                                                                                                                                                                                                                                                                                                             | Keep the EUT communication with simulated station in 16QAM mode |
| <b>Remark:</b> The EUT has been tested under continuous transmitting mode. Channel Low, Mid and High for each type band with rated data rate were chosen for full testing. The field strength of spurious radiation emission was measured as EUT stand-up position (H mode) and lie down position (E1, E2 mode) for these modes. Just the worst case position (H mode) shown in report. |                                                                 |
| Operating Environment:                                                                                                                                                                                                                                                                                                                                                                  |                                                                 |
| Temperature:                                                                                                                                                                                                                                                                                                                                                                            | Normal: 15°C ~ 35°C, Extreme: -30°C ~ +50°C                     |
| Humidity:                                                                                                                                                                                                                                                                                                                                                                               | 20 % ~ 75 % RH                                                  |
| Atmospheric Pressure:                                                                                                                                                                                                                                                                                                                                                                   | 1008 mbar                                                       |
| Voltage:                                                                                                                                                                                                                                                                                                                                                                                | Nominal: 3.87 Vdc, Extreme: Low 3.45 Vdc, High 4.45 Vdc         |

### 4.4 Description of Test Auxiliary Equipment

| Test Equipment    | Manufacturer | Model No. | Serial No. |
|-------------------|--------------|-----------|------------|
| Simulated Station | Anritsu      | MT8820C   | 6201026545 |

### 4.5 Measurement Uncertainty

| Parameter                                                                                                                                                                                                                                                                                                            | Expanded Uncertainty<br>(Confidence of 95%(U = 2Uc(y))) |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|
| Conducted Emission for LISN (9kHz ~ 150kHz)                                                                                                                                                                                                                                                                          | ±3.11 dB                                                |
| Conducted Emission for LISN (150kHz ~ 30MHz)                                                                                                                                                                                                                                                                         | ±2.62 dB                                                |
| Radiated Emission (30MHz ~ 1GHz) (3m SAC)                                                                                                                                                                                                                                                                            | ±4.45 dB                                                |
| Radiated Emission (1GHz ~ 18GHz) (3m SAC)                                                                                                                                                                                                                                                                            | ±5.34 dB                                                |
| Radiated Emission (18GHz ~ 40GHz) (3m SAC)                                                                                                                                                                                                                                                                           | ±5.34 dB                                                |
| <b>Note:</b> All the measurement uncertainty value were shown with a coverage k=2 to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance. |                                                         |

### 4.6 Additions to, Deviations, or Exclusions from the Method

|    |
|----|
| No |
|----|

### 4.7 Laboratory Facility

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>The test facility is recognized, certified, or accredited by the following organizations:</p> <ul style="list-style-type: none"> <li>● <b>FCC - Designation No.: CN1211</b><br/>JianYan Testing Group Shenzhen Co., Ltd. has been accredited as a testing laboratory by FCC(Federal Communications Commission). The test firm Registration No. is 727551.</li> <li>● <b>ISED – CAB identifier.: CN0021</b><br/>The 3m Semi-anechoic chamber and 10m Semi-anechoic chamber of JianYan Testing Group Shenzhen Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.</li> <li>● <b>CNAS - Registration No.: CNAS L15527</b><br/>JianYan Testing Group Shenzhen Co., Ltd. is accredited to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L15527.</li> <li>● <b>A2LA - Registration No.: 4346.01</b><br/>This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories. The test scope can be found as below link: <a href="https://portal.a2la.org/scopepdf/4346-01.pdf">https://portal.a2la.org/scopepdf/4346-01.pdf</a></li> </ul> |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## 4.8 Laboratory Location

JianYan Testing Group Shenzhen Co., Ltd.

Address: No.101, Building 8, Innovation Wisdom Port, No.155 Hongtian Road, Huangpu Community, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, People's Republic of China.

Tel: +86-755-23118282, Fax: +86-755-23116366

Email: info-JYTee@lets.com, Website: <http://jyt.lets.com>

## 4.9 Test Instruments List

| Radiated Emission(3m SAC):    |                 |                 |                  |                      |                          |
|-------------------------------|-----------------|-----------------|------------------|----------------------|--------------------------|
| Test Equipment                | Manufacturer    | Model No.       | Manage No.       | Cal. Date (mm-dd-yy) | Cal. Due date (mm-dd-yy) |
| 3m SAC                        | ETS             | 9m*6m*6m        | WXJ001-1         | 01-19-2021           | 01-18-2024               |
| BiConiLog Antenna             | Schwarzbeck     | VULB9163        | WXJ002           | 02-17-2022           | 02-16-2023               |
| Biconical Antenna             | Schwarzbeck     | VUBA9117        | WXJ002-1         | 06-20-2021           | 06-19-2022               |
| Horn Antenna                  | Schwarzbeck     | BBHA9120D       | WXJ002-2         | 02-17-2022           | 02-16-2023               |
| Horn Antenna                  | Schwarzbeck     | BBHA9120D       | WXJ002-3         | 06-18-2021           | 06-17-2022               |
| Horn Antenna                  | Schwarzbeck     | BBHA9170        | WXJ002-5         | 04-07-2022           | 04-06-2023               |
| Horn Antenna                  | Schwarzbeck     | BBHA9170        | WXJ002-6         | 04-07-2022           | 04-06-2023               |
| Pre-amplifier (30MHz ~ 1GHz)  | Schwarzbeck     | BBV9743B        | WXJ001-2         | 02-17-2022           | 02-16-2023               |
| Pre-amplifier (1GHz ~ 18GHz)  | SKET            | LNPA_0118G-50   | WXJ001-3         | 02-17-2022           | 02-16-2023               |
| Pre-amplifier (18GHz ~ 40GHz) | RF System       | TRLA-180400G45B | WXJ002-7         | 03-30-2022           | 03-29-2023               |
| EMI Test Receiver             | Rohde & Schwarz | ESRP7           | WXJ003-1         | 02-17-2022           | 02-16-2023               |
| Spectrum Analyzer             | KEYSIGHT        | N9010B          | WXJ004-2         | 11-27-2021           | 11-26-2022               |
| Coaxial Cable (30MHz ~ 1GHz)  | JYTSZ           | JYT3M-1G-NN-8M  | WXG001-4         | 02-17-2022           | 02-16-2023               |
| Coaxial Cable (1GHz ~ 18GHz)  | JYTSZ           | JYT3M-18G-NN-8M | WXG001-5         | 02-17-2022           | 02-16-2023               |
| Coaxial Cable (18GHz ~ 40GHz) | JYTSZ           | JYT3M-40G-SS-8M | WXG001-7         | 02-17-2022           | 02-16-2023               |
| Band Reject Filter Group      | Tonscend        | JS0806-F        | WXJ089           | N/A                  |                          |
| Test Software                 | Tonscend        | TS+             | Version: 3.0.0.1 |                      |                          |

| Conducted Method:            |                 |           |                     |                      |                          |
|------------------------------|-----------------|-----------|---------------------|----------------------|--------------------------|
| Test Equipment               | Manufacturer    | Model No. | Manage No.          | Cal. Date (mm-dd-yy) | Cal. Due date (mm-dd-yy) |
| Spectrum Analyzer            | Keysight        | N9020B    | WXJ081-1            | 07-02-2021           | 07-01-2022               |
| Simulated Station            | Rohde & Schwarz | CMW500    | WXJ081              | 07-02-2021           | 07-01-2022               |
| DC Power Supply              | Keysight        | E3642A    | WXJ025-2            | 10-25-2021           | 10-24-2022               |
| Temperature Humidity Chamber | ZHONG ZHI       | CZ-A-80D  | WXJ032-3            | 03-19-2021           | 03-18-2023               |
| RF Control Unit              | Tonscend        | JS0806-1  | WXG010              | N/A                  |                          |
| Band Reject Filter Group     | Tonscend        | JS0806-F  | WXG010-1            | N/A                  |                          |
| Test Software                | Tonscend        | TS+       | Version: 2.6.9.0526 |                      |                          |

## 5. Measurement Setup and Procedure

### 5.1 Test Channel

According to ANSI C63.26-2015 chapter 5.1.2.1 Table 2 requirement, select lowest channel, middle channel, and highest channel in the frequency range in which device operates for testing. The detailed frequency points are as follows:

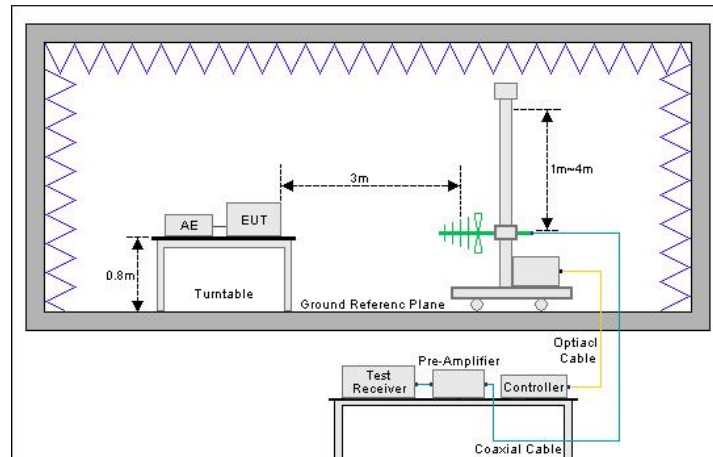
| LTE band 2      |       |                 |                 |       |                 |
|-----------------|-------|-----------------|-----------------|-------|-----------------|
| Channels        |       | Frequency (MHz) | Channels        |       | Frequency (MHz) |
| 1.4 MHz         |       |                 | 3 MHz           |       |                 |
| Lowest channel  | 18607 | 1850.7          | Lowest channel  | 18915 | 1851.5          |
| Middle channel  | 18900 | 1880.0          | Middle channel  | 18900 | 1880.0          |
| Highest channel | 19193 | 1909.3          | Highest channel | 19185 | 1908.5          |
| 5 MHz           |       |                 | 10 MHz          |       |                 |
| Lowest channel  | 18625 | 1852.5          | Lowest channel  | 18650 | 1855.0          |
| Middle channel  | 18900 | 1880.0          | Middle channel  | 18900 | 1880.0          |
| Highest channel | 19175 | 1907.5          | Highest channel | 19150 | 1905.0          |
| 15 MHz          |       |                 | 20 MHz          |       |                 |
| Lowest channel  | 18675 | 1857.5          | Lowest channel  | 18700 | 1860.0          |
| Middle channel  | 18900 | 1880.0          | Middle channel  | 18900 | 1880.0          |
| Highest channel | 19125 | 1902.5          | Highest channel | 19100 | 1900.0          |
| LTE band 4      |       |                 |                 |       |                 |
| Channels        |       | Frequency (MHz) | Channels        |       | Frequency (MHz) |
| 1.4 MHz         |       |                 | 3 MHz           |       |                 |
| Lowest channel  | 19957 | 1710.7          | Lowest channel  | 19965 | 1711.5          |
| Middle channel  | 20175 | 1732.5          | Middle channel  | 20175 | 1732.5          |
| Highest channel | 20393 | 1754.3          | Highest channel | 20385 | 1753.5          |
| 5 MHz           |       |                 | 10 MHz          |       |                 |
| Lowest channel  | 19975 | 1712.5          | Lowest channel  | 20000 | 1715.0          |
| Middle channel  | 20175 | 1732.5          | Middle channel  | 20175 | 1732.5          |
| Highest channel | 20375 | 1752.5          | Highest channel | 20350 | 1750.0          |
| 15 MHz          |       |                 | 20 MHz          |       |                 |
| Lowest channel  | 20025 | 1717.5          | Lowest channel  | 20050 | 1720.0          |
| Middle channel  | 20175 | 1732.5          | Middle channel  | 20175 | 1732.5          |
| Highest channel | 20325 | 1747.5          | Highest channel | 20300 | 1745.0          |
| LTE band 5      |       |                 |                 |       |                 |
| Channels        |       | Frequency (MHz) | Channels        |       | Frequency (MHz) |
| 1.4 MHz         |       |                 | 3 MHz           |       |                 |
| Lowest channel  | 20407 | 824.7           | Lowest channel  | 20415 | 825.5           |
| Middle channel  | 20525 | 836.5           | Middle channel  | 20525 | 836.5           |
| Highest channel | 20643 | 848.3           | Highest channel | 20635 | 847.5           |
| 5 MHz           |       |                 | 10 MHz          |       |                 |
| Lowest channel  | 20425 | 826.5           | Lowest channel  | 20450 | 829.0           |
| Middle channel  | 20525 | 836.5           | Middle channel  | 20525 | 836.5           |
| Highest channel | 20625 | 846.5           | Highest channel | 20600 | 844.0           |

| LTE band 7                                         |       |                 |                 |       |                 |
|----------------------------------------------------|-------|-----------------|-----------------|-------|-----------------|
| Channels                                           |       | Frequency (MHz) | Channels        |       | Frequency (MHz) |
| 5 MHz                                              |       |                 | 10 MHz          |       |                 |
| Lowest channel                                     | 20775 | 2502.5          | Lowest channel  | 20800 | 2505.0          |
| Middle channel                                     | 21100 | 2535.0          | Middle channel  | 21100 | 2535.0          |
| Highest channel                                    | 21425 | 2567.5          | Highest channel | 21400 | 2565.0          |
| 15 MHz                                             |       |                 | 20 MHz          |       |                 |
| Lowest channel                                     | 20825 | 2507.5          | Lowest channel  | 20850 | 2510.0          |
| Middle channel                                     | 21100 | 2535.0          | Middle channel  | 21100 | 2535.0          |
| Highest channel                                    | 21375 | 2562.5          | Highest channel | 21350 | 2560.0          |
| LTE band 41(2535MHz ~ 2655MHz) Include LTE band 38 |       |                 |                 |       |                 |
| Channels                                           |       | Frequency (MHz) | Channels        |       | Frequency (MHz) |
| 5 MHz                                              |       |                 | 10 MHz          |       |                 |
| Lowest channel                                     | 40065 | 2537.50         | Lowest channel  | 40090 | 2540.00         |
| Middle channel                                     | 40640 | 2595.00         | Middle channel  | 40640 | 2595.00         |
| Highest channel                                    | 41215 | 2652.50         | Highest channel | 41190 | 2650.00         |
| 15 MHz                                             |       |                 | 20 MHz          |       |                 |
| Lowest channel                                     | 40115 | 2542.50         | Lowest channel  | 40140 | 2545.00         |
| Middle channel                                     | 40640 | 2595.00         | Middle channel  | 40640 | 2595.00         |
| Highest channel                                    | 41165 | 2647.50         | Highest channel | 41140 | 2645.00         |

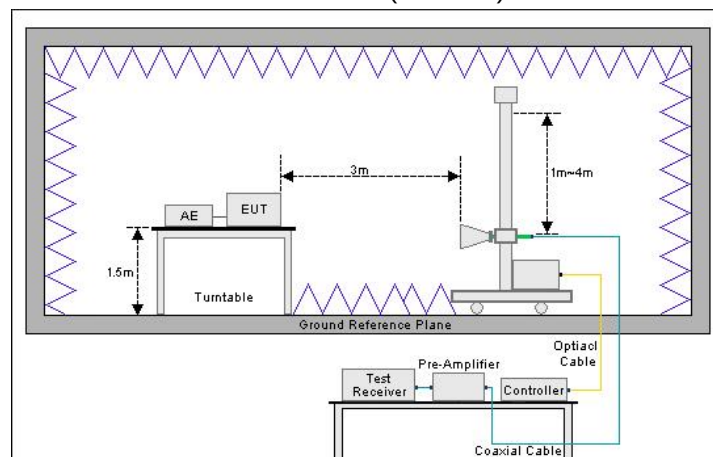
## 5.2 Test Setup

### 1) Radiated emission measurement:

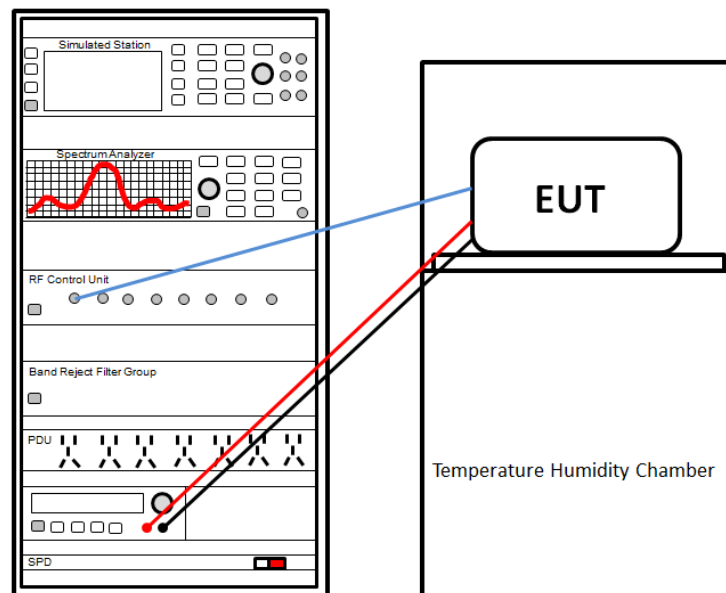
Below 1GHz (3m SAC)



Above 1GHz (3m SAC)



### 2) Conducted test method



### 5.3 Test Procedure

| Test method           | Test step                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Radiated emission     | <p><b>For below 1GHz:</b></p> <ol style="list-style-type: none"> <li>The EUT was placed on the tabletop of a rotating table 0.8 m the ground at a 3 m semi anechoic chamber. The measurement distance from the EUT to the receiving antenna is 3 m.</li> <li>EUT works in each mode of operation that needs to be tested , and having the EUT continuously working, respectively on 3 axis (X, Y &amp; Z) and considered typical configuration to obtain worst position. The highest signal levels relative to the limit shall be determined by rotating the EUT from 0° to 360° and with varying the measurement antenna height between 1 m and 4 m in vertical and horizontal polarizations.</li> <li>Open the test software to control the test antenna and test turntable. Perform the test, save the test results, and export the test data.</li> </ol> <p><b>For above 1GHz:</b></p> <ol style="list-style-type: none"> <li>The EUT was placed on the tabletop of a rotating table 1.5 m the ground at a 3 m fully anechoic room. The measurement distance from the EUT to the receiving antenna is 3 m.</li> <li>EUT works in each mode of operation that needs to be tested , and having the EUT continuously working, respectively on 3 axis (X, Y &amp; Z) and considered typical configuration to obtain worst position. The highest signal levels relative to the limit shall be determined by rotating the EUT from 0° to 360° and with varying the measurement antenna height between 1 m and 4 m in vertical and horizontal polarizations.</li> <li>Open the test software to control the test antenna and test turntable. Perform the test, save the test results, and export the test data.</li> </ol> |
| Conducted test method | <ol style="list-style-type: none"> <li>The LTE antenna port of EUT was connected to the test port of the test system through an RF cable.</li> <li>The EUT is keeping in continuous transmission mode and tested in all modulation modes.</li> <li>Open the test software, prepare a test plan, and control the system through the software. After the test is completed, the test report is exported through the test software.</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

## 6. Test Results

### 6.1 Summary

#### 6.1.1 Clause and Data Summary

| Test items                                                                                                                                                                                                                                                                                                    | Standard clause                                                                                | Test data       | Result |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|-----------------|--------|
| RF Exposure (SAR)                                                                                                                                                                                                                                                                                             | Part 1.1307<br>Part 2.1093                                                                     | See SAR Report  | Pass   |
| RF Output Power                                                                                                                                                                                                                                                                                               | Part 2.1046<br>Part 22.913 (a)(5)<br>Part 24.232 (c)<br>Part 27.50 (d)(4)<br>Part 27.50 (h)(2) | Appendix – LTE  | Pass   |
| Peak-to-Average Power Ratio                                                                                                                                                                                                                                                                                   | Part 24.232 (d)<br>Part 27.50 (d)(5)                                                           | Appendix – LTE  | Pass   |
| Modulation Characteristics                                                                                                                                                                                                                                                                                    | Part 2.1047                                                                                    | Appendix – LTE  | Pass   |
| 26dB Emission Bandwidth<br>99% Occupied Bandwidth                                                                                                                                                                                                                                                             | Part 2.1049<br>Part 22.917 (b)<br>Part 24.238 (b)<br>Part 27.53 (h)(3)<br>Part 27.53 (m)(6)    | Appendix – LTE  | Pass   |
| Out of Band Emission at Antenna<br>Terminals                                                                                                                                                                                                                                                                  | Part 2.1051<br>Part 22.917 (a)<br>Part 24.238 (a)<br>Part 27.53 (h)(1)<br>Part 27.53 (m)(4)    | Appendix – LTE  | Pass   |
| Field Strength of Spurious Radiation                                                                                                                                                                                                                                                                          | Part 2.1053<br>Part 22.917 (a)<br>Part 24.238 (a)<br>Part 27.53 (h)(1)<br>Part 27.53 (m)(4)    | See Section 6.2 | Pass   |
| Frequency Stability vs. Temperature                                                                                                                                                                                                                                                                           | Part 2.1055 (a)(1)(b)<br>Part 22.355<br>Part 24.235<br>Part 27.54                              | Appendix – LTE  | Pass   |
| Frequency Stability vs. Voltage                                                                                                                                                                                                                                                                               | Part 2.1055 (d)(2)<br>Part 22.355<br>Part 24.235<br>Part 27.54                                 | Appendix – LTE  | Pass   |
| <b>Remark:</b><br>1. Pass: The EUT complies with the essential requirements in the standard.<br>2. The cable insertion loss used by "RF Output Power" and other conduction measurement items is 0.5dB (Fundamental Frequency below 1GHz)/1.0dB (Fundamental Frequency above 1GHz) (provided by the customer). |                                                                                                |                 |        |
| <b>Test Method:</b>                                                                                                                                                                                                                                                                                           | ANSI/TIA-603-E-2016<br>ANSI C63.26-2015                                                        |                 |        |

### 6.1.2 Test Limit

| Test items                                                                            | Limit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                       |                       |                       |                       |          |      |      |      |           |     |     |      |            |     |     |     |            |     |     |     |            |     |     |     |            |     |     |     |              |      |     |     |
|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------|------|------|------|-----------|-----|-----|------|------------|-----|-----|-----|------------|-----|-----|-----|------------|-----|-----|-----|------------|-----|-----|-----|--------------|------|-----|-----|
| RF Output Power                                                                       | <b>LTE band 2/7/38/41:</b> 2W EIRP<br><b>LTE band 4:</b> 1W EIRP<br><b>LTE band 5:</b> 7W ERP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                       |                       |                       |                       |          |      |      |      |           |     |     |      |            |     |     |     |            |     |     |     |            |     |     |     |            |     |     |     |              |      |     |     |
| Peak-to-Average Power Ratio                                                           | The peak-to-average ratio (PAR) of the transmission may not exceed 13 dB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                       |                       |                       |                       |          |      |      |      |           |     |     |      |            |     |     |     |            |     |     |     |            |     |     |     |            |     |     |     |              |      |     |     |
| Modulation Characteristics                                                            | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                       |                       |                       |                       |          |      |      |      |           |     |     |      |            |     |     |     |            |     |     |     |            |     |     |     |            |     |     |     |              |      |     |     |
| 26dB Emission Bandwidth<br>99% Occupied Bandwidth                                     | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                       |                       |                       |                       |          |      |      |      |           |     |     |      |            |     |     |     |            |     |     |     |            |     |     |     |            |     |     |     |              |      |     |     |
| Out of Band Emission at Antenna Terminals<br><br>Field Strength of Spurious Radiation | <b>LTE band 2, 4, 5:</b><br>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.<br><br><b>LTE band 7, 38, 41:</b><br>For mobile digital stations, the attenuation factor shall be not less than 40 + 10 log (P) dB on all frequencies between the channel edge and 5 megahertz from the channel edge, 43 + 10 log (P) dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and 55 + 10 log (P) dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less that 43 + 10 log (P) dB on all frequencies between 2490.5 MHz and 2496 MHz and 55 + 10 log (P) dB at or below 2490.5 MHz.                                                                                                                                                                                                                                                                                                                                                 |                       |                       |                       |                       |          |      |      |      |           |     |     |      |            |     |     |     |            |     |     |     |            |     |     |     |            |     |     |     |              |      |     |     |
| Frequency Stability vs. Temperature<br><br>Frequency Stability vs. Voltage            | <b>LTE band 2:</b><br>The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.<br><br><b>LTE band 4, 7, 38, 41:</b><br>The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.<br><br><b>LTE band 5:</b><br>Except as otherwise provided in this part, the carrier frequency of each transmitter in the Public Mobile Services must be maintained within the tolerances given in Table C-1 of this section.<br><br><b>TABLE C-1—FREQUENCY TOLERANCE FOR TRANSMITTERS IN THE PUBLIC MOBILE SERVICES</b> <table><tr><th>Frequency range (MHz)</th><th>Base, fixed (ppm)</th><th>Mobile &gt;3 watts (ppm)</th><th>Mobile ≤3 watts (ppm)</th></tr><tr><td>25 to 50</td><td>20.0</td><td>20.0</td><td>50.0</td></tr><tr><td>50 to 450</td><td>5.0</td><td>5.0</td><td>50.0</td></tr><tr><td>450 to 512</td><td>2.5</td><td>5.0</td><td>5.0</td></tr><tr><td>821 to 896</td><td>1.5</td><td>2.5</td><td>2.5</td></tr><tr><td>928 to 929</td><td>5.0</td><td>n/a</td><td>n/a</td></tr><tr><td>929 to 960</td><td>1.5</td><td>n/a</td><td>n/a</td></tr><tr><td>2110 to 2220</td><td>10.0</td><td>n/a</td><td>n/a</td></tr></table> | Frequency range (MHz) | Base, fixed (ppm)     | Mobile >3 watts (ppm) | Mobile ≤3 watts (ppm) | 25 to 50 | 20.0 | 20.0 | 50.0 | 50 to 450 | 5.0 | 5.0 | 50.0 | 450 to 512 | 2.5 | 5.0 | 5.0 | 821 to 896 | 1.5 | 2.5 | 2.5 | 928 to 929 | 5.0 | n/a | n/a | 929 to 960 | 1.5 | n/a | n/a | 2110 to 2220 | 10.0 | n/a | n/a |
| Frequency range (MHz)                                                                 | Base, fixed (ppm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Mobile >3 watts (ppm) | Mobile ≤3 watts (ppm) |                       |                       |          |      |      |      |           |     |     |      |            |     |     |     |            |     |     |     |            |     |     |     |            |     |     |     |              |      |     |     |
| 25 to 50                                                                              | 20.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 20.0                  | 50.0                  |                       |                       |          |      |      |      |           |     |     |      |            |     |     |     |            |     |     |     |            |     |     |     |            |     |     |     |              |      |     |     |
| 50 to 450                                                                             | 5.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 5.0                   | 50.0                  |                       |                       |          |      |      |      |           |     |     |      |            |     |     |     |            |     |     |     |            |     |     |     |            |     |     |     |              |      |     |     |
| 450 to 512                                                                            | 2.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 5.0                   | 5.0                   |                       |                       |          |      |      |      |           |     |     |      |            |     |     |     |            |     |     |     |            |     |     |     |            |     |     |     |              |      |     |     |
| 821 to 896                                                                            | 1.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 2.5                   | 2.5                   |                       |                       |          |      |      |      |           |     |     |      |            |     |     |     |            |     |     |     |            |     |     |     |            |     |     |     |              |      |     |     |
| 928 to 929                                                                            | 5.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | n/a                   | n/a                   |                       |                       |          |      |      |      |           |     |     |      |            |     |     |     |            |     |     |     |            |     |     |     |            |     |     |     |              |      |     |     |
| 929 to 960                                                                            | 1.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | n/a                   | n/a                   |                       |                       |          |      |      |      |           |     |     |      |            |     |     |     |            |     |     |     |            |     |     |     |            |     |     |     |              |      |     |     |
| 2110 to 2220                                                                          | 10.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | n/a                   | n/a                   |                       |                       |          |      |      |      |           |     |     |      |            |     |     |     |            |     |     |     |            |     |     |     |            |     |     |     |              |      |     |     |

## 6.2 Field Strength of Spurious Radiation Measurement

| LTE band 2 – 1.4 MHz bandwidth                                                                   |                     |             |             |             |             |              |
|--------------------------------------------------------------------------------------------------|---------------------|-------------|-------------|-------------|-------------|--------------|
| Lowest channel                                                                                   |                     |             |             |             |             |              |
| Frequency (MHz)                                                                                  | Reading Level (dBm) | Factor (dB) | Level (dBm) | Limit (dBm) | Margin (dB) | Polarization |
| 3701.40                                                                                          | -49.38              | -1.60       | -50.98      | -13.00      | 37.98       | Vertical     |
| 5552.10                                                                                          | -48.31              | 5.43        | -42.88      | -13.00      | 29.88       | Vertical     |
| 7402.00                                                                                          | -51.62              | 13.11       | -38.51      | -13.00      | 25.51       | Vertical     |
| 3701.40                                                                                          | -47.24              | -2.09       | -49.33      | -13.00      | 36.33       | Horizontal   |
| 5552.10                                                                                          | -46.84              | 3.81        | -43.03      | -13.00      | 30.03       | Horizontal   |
| 7402.00                                                                                          | -51.84              | 11.38       | -40.46      | -13.00      | 27.46       | Horizontal   |
| Middle channel                                                                                   |                     |             |             |             |             |              |
| Frequency (MHz)                                                                                  | Reading Level (dBm) | Factor (dB) | Level (dBm) | Limit (dBm) | Margin (dB) | Polarization |
| 3760.00                                                                                          | -48.98              | -1.31       | -50.29      | -13.00      | 37.29       | Vertical     |
| 5640.00                                                                                          | -48.12              | 6.98        | -41.14      | -13.00      | 28.14       | Vertical     |
| 7520.00                                                                                          | -51.45              | 11.74       | -39.71      | -13.00      | 26.71       | Vertical     |
| 3760.00                                                                                          | -47.32              | -1.80       | -49.12      | -13.00      | 36.12       | Horizontal   |
| 5640.00                                                                                          | -46.56              | 4.30        | -42.26      | -13.00      | 29.26       | Horizontal   |
| 7520.00                                                                                          | -51.61              | 10.25       | -41.36      | -13.00      | 28.36       | Horizontal   |
| Highest channel                                                                                  |                     |             |             |             |             |              |
| Frequency (MHz)                                                                                  | Reading Level (dBm) | Factor (dB) | Level (dBm) | Limit (dBm) | Margin (dB) | Polarization |
| 3816.60                                                                                          | -48.50              | -1.02       | -49.52      | -13.00      | 36.52       | Vertical     |
| 5724.90                                                                                          | -48.19              | 8.20        | -39.99      | -13.00      | 26.99       | Vertical     |
| 7633.20                                                                                          | -51.56              | 11.17       | -40.39      | -13.00      | 27.39       | Vertical     |
| 3816.60                                                                                          | -47.20              | -1.49       | -48.69      | -13.00      | 35.69       | Horizontal   |
| 5724.90                                                                                          | -46.39              | 5.68        | -40.71      | -13.00      | 27.71       | Horizontal   |
| 7633.20                                                                                          | -51.67              | 10.01       | -41.66      | -13.00      | 28.66       | Horizontal   |
| <b>Remark:</b>                                                                                   |                     |             |             |             |             |              |
| 1. The emission levels of below 1 GHz are lower than the limit 10dB, so not show in test report. |                     |             |             |             |             |              |

| LTE band 2 – 20 MHz bandwidth                                                                                      |                     |             |             |             |             |              |
|--------------------------------------------------------------------------------------------------------------------|---------------------|-------------|-------------|-------------|-------------|--------------|
| Lowest channel                                                                                                     |                     |             |             |             |             |              |
| Frequency (MHz)                                                                                                    | Reading Level (dBm) | Factor (dB) | Level (dBm) | Limit (dBm) | Margin (dB) | Polarization |
| 3720.00                                                                                                            | -49.21              | -1.51       | -50.72      | -13.00      | 37.72       | Vertical     |
| 5580.00                                                                                                            | -47.74              | 5.80        | -41.94      | -13.00      | 28.94       | Vertical     |
| 7440.00                                                                                                            | -51.34              | 12.61       | -38.73      | -13.00      | 25.73       | Vertical     |
| 3720.00                                                                                                            | -47.40              | -2.00       | -49.40      | -13.00      | 36.40       | Horizontal   |
| 5580.00                                                                                                            | -46.39              | 3.95        | -42.44      | -13.00      | 29.44       | Horizontal   |
| 7440.00                                                                                                            | -51.32              | 10.94       | -40.38      | -13.00      | 27.38       | Horizontal   |
| Middle channel                                                                                                     |                     |             |             |             |             |              |
| Frequency (MHz)                                                                                                    | Reading Level (dBm) | Factor (dB) | Level (dBm) | Limit (dBm) | Margin (dB) | Polarization |
| 3760.00                                                                                                            | -48.76              | -1.31       | -50.07      | -13.00      | 37.07       | Vertical     |
| 5640.00                                                                                                            | -48.17              | 6.98        | -41.19      | -13.00      | 28.19       | Vertical     |
| 7520.00                                                                                                            | -51.72              | 11.74       | -39.98      | -13.00      | 26.98       | Vertical     |
| 3760.00                                                                                                            | -47.28              | -1.80       | -49.08      | -13.00      | 36.08       | Horizontal   |
| 5640.00                                                                                                            | -46.65              | 4.30        | -42.35      | -13.00      | 29.35       | Horizontal   |
| 7520.00                                                                                                            | -52.07              | 10.25       | -41.82      | -13.00      | 28.82       | Horizontal   |
| Highest channel                                                                                                    |                     |             |             |             |             |              |
| Frequency (MHz)                                                                                                    | Reading Level (dBm) | Factor (dB) | Level (dBm) | Limit (dBm) | Margin (dB) | Polarization |
| 3800.00                                                                                                            | -49.13              | -1.11       | -50.24      | -13.00      | 37.24       | Vertical     |
| 5700.00                                                                                                            | -48.57              | 8.28        | -40.29      | -13.00      | 27.29       | Vertical     |
| 7600.00                                                                                                            | -51.64              | 11.38       | -40.26      | -13.00      | 27.26       | Vertical     |
| 3800.00                                                                                                            | -47.48              | -1.61       | -49.09      | -13.00      | 36.09       | Horizontal   |
| 5700.00                                                                                                            | -46.88              | 4.67        | -42.21      | -13.00      | 29.21       | Horizontal   |
| 7600.00                                                                                                            | -51.95              | 10.20       | -41.75      | -13.00      | 28.75       | Horizontal   |
| <b>Remark:</b><br>1. The emission levels of below 1 GHz are lower than the limit 10dB, so not show in test report. |                     |             |             |             |             |              |

| LTE band 4 – 1.4 MHz bandwidth                                                                                     |                     |             |             |             |             |              |
|--------------------------------------------------------------------------------------------------------------------|---------------------|-------------|-------------|-------------|-------------|--------------|
| Lowest channel                                                                                                     |                     |             |             |             |             |              |
| Frequency (MHz)                                                                                                    | Reading Level (dBm) | Factor (dB) | Level (dBm) | Limit (dBm) | Margin (dB) | Polarization |
| 3421.40                                                                                                            | -48.96              | -4.27       | -53.23      | -13.00      | 40.23       | Vertical     |
| 5132.10                                                                                                            | -52.29              | 4.41        | -47.88      | -13.00      | 34.88       | Vertical     |
| 6842.80                                                                                                            | -50.54              | 9.91        | -40.63      | -13.00      | 27.63       | Vertical     |
| 3421.40                                                                                                            | -47.50              | -4.37       | -51.87      | -13.00      | 38.87       | Horizontal   |
| 5132.10                                                                                                            | -50.52              | 3.95        | -46.57      | -13.00      | 33.57       | Horizontal   |
| 6842.80                                                                                                            | -50.88              | 8.86        | -42.02      | -13.00      | 29.02       | Horizontal   |
| Middle channel                                                                                                     |                     |             |             |             |             |              |
| Frequency (MHz)                                                                                                    | Reading Level (dBm) | Factor (dB) | Level (dBm) | Limit (dBm) | Margin (dB) | Polarization |
| 3465.00                                                                                                            | -48.47              | -3.15       | -51.62      | -13.00      | 38.62       | Vertical     |
| 5197.50                                                                                                            | -52.02              | 3.90        | -48.12      | -13.00      | 35.12       | Vertical     |
| 6930.00                                                                                                            | -50.71              | 10.67       | -40.04      | -13.00      | 27.04       | Vertical     |
| 3465.00                                                                                                            | -47.46              | -3.25       | -50.71      | -13.00      | 37.71       | Horizontal   |
| 5197.50                                                                                                            | -50.48              | 3.40        | -47.08      | -13.00      | 34.08       | Horizontal   |
| 6930.00                                                                                                            | -50.87              | 9.35        | -41.52      | -13.00      | 28.52       | Horizontal   |
| Highest channel                                                                                                    |                     |             |             |             |             |              |
| Frequency (MHz)                                                                                                    | Reading Level (dBm) | Factor (dB) | Level (dBm) | Limit (dBm) | Margin (dB) | Polarization |
| 3508.60                                                                                                            | -48.70              | -2.20       | -50.90      | -13.00      | 37.90       | Vertical     |
| 5262.90                                                                                                            | -52.30              | 3.57        | -48.73      | -13.00      | 35.73       | Vertical     |
| 7017.20                                                                                                            | -50.91              | 11.38       | -39.53      | -13.00      | 26.53       | Vertical     |
| 3508.60                                                                                                            | -47.23              | -2.35       | -49.58      | -13.00      | 36.58       | Horizontal   |
| 5262.90                                                                                                            | -50.20              | 3.18        | -47.02      | -13.00      | 34.02       | Horizontal   |
| 7017.20                                                                                                            | -50.95              | 9.84        | -41.11      | -13.00      | 28.11       | Horizontal   |
| <b>Remark:</b><br>1. The emission levels of below 1 GHz are lower than the limit 10dB, so not show in test report. |                     |             |             |             |             |              |

| LTE band 4 – 20 MHz bandwidth                                                                                      |                     |             |             |             |             |              |
|--------------------------------------------------------------------------------------------------------------------|---------------------|-------------|-------------|-------------|-------------|--------------|
| Lowest channel                                                                                                     |                     |             |             |             |             |              |
| Frequency (MHz)                                                                                                    | Reading Level (dBm) | Factor (dB) | Level (dBm) | Limit (dBm) | Margin (dB) | Polarization |
| 3440.00                                                                                                            | -49.09              | -3.87       | -52.96      | -13.00      | 39.96       | Vertical     |
| 5160.00                                                                                                            | -52.75              | 3.71        | -49.04      | -13.00      | 36.04       | Vertical     |
| 6880.00                                                                                                            | -50.46              | 9.08        | -41.38      | -13.00      | 28.38       | Vertical     |
| 3440.00                                                                                                            | -47.91              | -3.99       | -51.90      | -13.00      | 38.90       | Horizontal   |
| 5160.00                                                                                                            | -50.26              | 4.20        | -46.06      | -13.00      | 33.06       | Horizontal   |
| 6880.00                                                                                                            | -50.97              | 10.27       | -40.70      | -13.00      | 27.70       | Horizontal   |
| Middle channel                                                                                                     |                     |             |             |             |             |              |
| Frequency (MHz)                                                                                                    | Reading Level (dBm) | Factor (dB) | Level (dBm) | Limit (dBm) | Margin (dB) | Polarization |
| 3465.00                                                                                                            | -48.74              | -3.15       | -51.89      | -13.00      | 38.89       | Vertical     |
| 5197.50                                                                                                            | -52.18              | 3.90        | -48.28      | -13.00      | 35.28       | Vertical     |
| 6930.00                                                                                                            | -51.06              | 10.67       | -40.39      | -13.00      | 27.39       | Vertical     |
| 3465.00                                                                                                            | -47.54              | -3.25       | -50.79      | -13.00      | 37.79       | Horizontal   |
| 5197.50                                                                                                            | -50.58              | 3.40        | -47.18      | -13.00      | 34.18       | Horizontal   |
| 6930.00                                                                                                            | -51.06              | 9.35        | -41.71      | -13.00      | 28.71       | Horizontal   |
| Highest channel                                                                                                    |                     |             |             |             |             |              |
| Frequency (MHz)                                                                                                    | Reading Level (dBm) | Factor (dB) | Level (dBm) | Limit (dBm) | Margin (dB) | Polarization |
| 3490.00                                                                                                            | -49.11              | -2.50       | -51.61      | -13.00      | 38.61       | Vertical     |
| 5235.00                                                                                                            | -52.74              | 3.71        | -49.03      | -13.00      | 36.03       | Vertical     |
| 6980.00                                                                                                            | -50.88              | 11.02       | -39.86      | -13.00      | 26.86       | Vertical     |
| 3490.00                                                                                                            | -46.75              | -2.60       | -49.35      | -13.00      | 36.35       | Horizontal   |
| 5235.00                                                                                                            | -50.21              | 3.27        | -46.94      | -13.00      | 33.94       | Horizontal   |
| 6980.00                                                                                                            | -50.55              | 9.59        | -40.96      | -13.00      | 27.96       | Horizontal   |
| <b>Remark:</b><br>1. The emission levels of below 1 GHz are lower than the limit 10dB, so not show in test report. |                     |             |             |             |             |              |

| LTE band 5 – 1.4 MHz bandwidth                                                                                     |                     |             |             |             |             |              |
|--------------------------------------------------------------------------------------------------------------------|---------------------|-------------|-------------|-------------|-------------|--------------|
| Lowest channel                                                                                                     |                     |             |             |             |             |              |
| Frequency (MHz)                                                                                                    | Reading Level (dBm) | Factor (dB) | Level (dBm) | Limit (dBm) | Margin (dB) | Polarization |
| 1649.40                                                                                                            | -41.06              | -11.10      | -52.16      | -13.00      | 39.16       | Vertical     |
| 2474.10                                                                                                            | -49.62              | -6.20       | -55.82      | -13.00      | 42.82       | Vertical     |
| 3298.80                                                                                                            | -49.07              | -4.96       | -54.03      | -13.00      | 41.03       | Vertical     |
| 1649.40                                                                                                            | -42.85              | -11.00      | -53.85      | -13.00      | 40.85       | Horizontal   |
| 2474.10                                                                                                            | -50.36              | -6.54       | -56.90      | -13.00      | 43.90       | Horizontal   |
| 3298.80                                                                                                            | -49.96              | -5.25       | -55.21      | -13.00      | 42.21       | Horizontal   |
| Middle channel                                                                                                     |                     |             |             |             |             |              |
| Frequency (MHz)                                                                                                    | Reading Level (dBm) | Factor (dB) | Level (dBm) | Limit (dBm) | Margin (dB) | Polarization |
| 1673.30                                                                                                            | -41.34              | -11.13      | -52.47      | -13.00      | 39.47       | Vertical     |
| 2509.50                                                                                                            | -50.05              | -6.20       | -56.25      | -13.00      | 43.25       | Vertical     |
| 3346.00                                                                                                            | -49.31              | -5.03       | -54.34      | -13.00      | 41.34       | Vertical     |
| 1673.30                                                                                                            | -42.53              | -11.04      | -53.57      | -13.00      | 40.57       | Horizontal   |
| 2509.50                                                                                                            | -50.38              | -6.51       | -56.89      | -13.00      | 43.89       | Horizontal   |
| 3346.00                                                                                                            | -50.10              | -5.23       | -55.33      | -13.00      | 42.33       | Horizontal   |
| Highest channel                                                                                                    |                     |             |             |             |             |              |
| Frequency (MHz)                                                                                                    | Reading Level (dBm) | Factor (dB) | Level (dBm) | Limit (dBm) | Margin (dB) | Polarization |
| 1696.60                                                                                                            | -40.97              | -11.15      | -52.12      | -13.00      | 39.12       | Vertical     |
| 2544.90                                                                                                            | -50.45              | -6.07       | -56.52      | -13.00      | 43.52       | Vertical     |
| 3393.20                                                                                                            | -49.81              | -5.09       | -54.90      | -13.00      | 41.90       | Vertical     |
| 1696.60                                                                                                            | -43.00              | -11.09      | -54.09      | -13.00      | 41.09       | Horizontal   |
| 2544.90                                                                                                            | -50.30              | -6.38       | -56.68      | -13.00      | 43.68       | Horizontal   |
| 3393.20                                                                                                            | -50.05              | -5.20       | -55.25      | -13.00      | 42.25       | Horizontal   |
| <b>Remark:</b><br>1. The emission levels of below 1 GHz are lower than the limit 10dB, so not show in test report. |                     |             |             |             |             |              |

| LTE band 5 – 10 MHz bandwidth                                                                                      |                     |             |             |             |             |              |
|--------------------------------------------------------------------------------------------------------------------|---------------------|-------------|-------------|-------------|-------------|--------------|
| Lowest channel                                                                                                     |                     |             |             |             |             |              |
| Frequency (MHz)                                                                                                    | Reading Level (dBm) | Factor (dB) | Level (dBm) | Limit (dBm) | Margin (dB) | Polarization |
| 1658.00                                                                                                            | -40.63              | -11.11      | -51.74      | -13.00      | 38.74       | Vertical     |
| 2487.00                                                                                                            | -49.73              | -6.22       | -55.95      | -13.00      | 42.95       | Vertical     |
| 3316.00                                                                                                            | -48.71              | -4.98       | -53.69      | -13.00      | 40.69       | Vertical     |
| 1658.00                                                                                                            | -42.90              | -11.02      | -53.92      | -13.00      | 40.92       | Horizontal   |
| 2487.00                                                                                                            | -50.74              | -6.54       | -57.28      | -13.00      | 44.28       | Horizontal   |
| 3316.00                                                                                                            | -49.77              | -5.24       | -55.01      | -13.00      | 42.01       | Horizontal   |
| Middle channel                                                                                                     |                     |             |             |             |             |              |
| Frequency (MHz)                                                                                                    | Reading Level (dBm) | Factor (dB) | Level (dBm) | Limit (dBm) | Margin (dB) | Polarization |
| 1673.30                                                                                                            | -40.89              | -11.13      | -52.02      | -13.00      | 39.02       | Vertical     |
| 2509.50                                                                                                            | -50.28              | -6.20       | -56.48      | -13.00      | 43.48       | Vertical     |
| 3346.00                                                                                                            | -49.21              | -5.03       | -54.24      | -13.00      | 41.24       | Vertical     |
| 1673.30                                                                                                            | -42.42              | -11.05      | -53.47      | -13.00      | 40.47       | Horizontal   |
| 2509.50                                                                                                            | -50.53              | -6.51       | -57.04      | -13.00      | 44.04       | Horizontal   |
| 3346.00                                                                                                            | -50.13              | -5.23       | -55.36      | -13.00      | 42.36       | Horizontal   |
| Highest channel                                                                                                    |                     |             |             |             |             |              |
| Frequency (MHz)                                                                                                    | Reading Level (dBm) | Factor (dB) | Level (dBm) | Limit (dBm) | Margin (dB) | Polarization |
| 1688.00                                                                                                            | -41.03              | -11.14      | -52.17      | -13.00      | 39.17       | Vertical     |
| 2532.00                                                                                                            | -50.71              | -6.11       | -56.82      | -13.00      | 43.82       | Vertical     |
| 3376.00                                                                                                            | -49.34              | -5.07       | -54.41      | -13.00      | 41.41       | Vertical     |
| 1688.00                                                                                                            | -42.88              | -11.07      | -53.95      | -13.00      | 40.95       | Horizontal   |
| 2532.00                                                                                                            | -50.41              | -6.42       | -56.83      | -13.00      | 43.83       | Horizontal   |
| 3376.00                                                                                                            | -50.00              | -5.21       | -55.21      | -13.00      | 42.21       | Horizontal   |
| <b>Remark:</b><br>1. The emission levels of below 1 GHz are lower than the limit 10dB, so not show in test report. |                     |             |             |             |             |              |

| LTE band 7 – 5 MHz bandwidth                                                                                       |                     |             |             |             |             |              |
|--------------------------------------------------------------------------------------------------------------------|---------------------|-------------|-------------|-------------|-------------|--------------|
| Lowest channel                                                                                                     |                     |             |             |             |             |              |
| Frequency (MHz)                                                                                                    | Reading Level (dBm) | Factor (dB) | Level (dBm) | Limit (dBm) | Margin (dB) | Polarization |
| 5005.00                                                                                                            | -50.84              | 4.56        | -46.28      | -25.00      | 21.28       | Vertical     |
| 7507.50                                                                                                            | -43.42              | 13.14       | -30.28      | -25.00      | 5.28        | Vertical     |
| 10010.00                                                                                                           | -52.47              | 16.93       | -35.54      | -25.00      | 10.54       | Vertical     |
| 5005.00                                                                                                            | -50.77              | 4.56        | -46.21      | -25.00      | 21.21       | Horizontal   |
| 7507.50                                                                                                            | -44.77              | 13.14       | -31.63      | -25.00      | 6.63        | Horizontal   |
| 10010.00                                                                                                           | -52.92              | 16.93       | -35.99      | -25.00      | 10.99       | Horizontal   |
| Middle channel                                                                                                     |                     |             |             |             |             |              |
| Frequency (MHz)                                                                                                    | Reading Level (dBm) | Factor (dB) | Level (dBm) | Limit (dBm) | Margin (dB) | Polarization |
| 5070.00                                                                                                            | -50.81              | 4.55        | -46.26      | -25.00      | 21.26       | Vertical     |
| 7605.00                                                                                                            | -43.15              | 13.58       | -29.57      | -25.00      | 4.57        | Vertical     |
| 10140.00                                                                                                           | -52.74              | 17.44       | -35.30      | -25.00      | 10.30       | Vertical     |
| 5070.00                                                                                                            | -50.73              | 4.55        | -46.18      | -25.00      | 21.18       | Horizontal   |
| 7605.00                                                                                                            | -44.78              | 13.58       | -31.20      | -25.00      | 6.20        | Horizontal   |
| 10140.00                                                                                                           | -53.06              | 17.44       | -35.62      | -25.00      | 10.62       | Horizontal   |
| Highest channel                                                                                                    |                     |             |             |             |             |              |
| Frequency (MHz)                                                                                                    | Reading Level (dBm) | Factor (dB) | Level (dBm) | Limit (dBm) | Margin (dB) | Polarization |
| 5135.00                                                                                                            | -50.42              | 4.62        | -45.80      | -25.00      | 20.80       | Vertical     |
| 7702.50                                                                                                            | -43.32              | 13.24       | -30.08      | -25.00      | 5.08        | Vertical     |
| 10270.00                                                                                                           | -52.95              | 18.40       | -34.55      | -25.00      | 9.55        | Vertical     |
| 5135.00                                                                                                            | -50.71              | 4.62        | -46.09      | -25.00      | 21.09       | Horizontal   |
| 7702.50                                                                                                            | -44.98              | 13.24       | -31.74      | -25.00      | 6.74        | Horizontal   |
| 10270.00                                                                                                           | -52.99              | 18.40       | -34.59      | -25.00      | 9.59        | Horizontal   |
| <b>Remark:</b><br>1. The emission levels of below 1 GHz are lower than the limit 10dB, so not show in test report. |                     |             |             |             |             |              |

| LTE band 7 – 20 MHz bandwidth                                                                                      |                     |             |             |             |             |              |
|--------------------------------------------------------------------------------------------------------------------|---------------------|-------------|-------------|-------------|-------------|--------------|
| Lowest channel                                                                                                     |                     |             |             |             |             |              |
| Frequency (MHz)                                                                                                    | Reading Level (dBm) | Factor (dB) | Level (dBm) | Limit (dBm) | Margin (dB) | Polarization |
| 5020.00                                                                                                            | -50.58              | 4.56        | -46.02      | -25.00      | 21.02       | Vertical     |
| 7530.00                                                                                                            | -43.49              | 13.29       | -30.20      | -25.00      | 5.20        | Vertical     |
| 10040.00                                                                                                           | -52.26              | 16.98       | -35.28      | -25.00      | 10.28       | Vertical     |
| 5020.00                                                                                                            | -50.99              | 4.56        | -46.43      | -25.00      | 21.43       | Horizontal   |
| 7530.00                                                                                                            | -44.58              | 13.29       | -31.29      | -25.00      | 6.29        | Horizontal   |
| 10040.00                                                                                                           | -52.60              | 16.98       | -35.62      | -25.00      | 10.62       | Horizontal   |
| Middle channel                                                                                                     |                     |             |             |             |             |              |
| Frequency (MHz)                                                                                                    | Reading Level (dBm) | Factor (dB) | Level (dBm) | Limit (dBm) | Margin (dB) | Polarization |
| 5070.00                                                                                                            | -50.55              | 4.55        | -46.00      | -25.00      | 21.00       | Vertical     |
| 7605.00                                                                                                            | -42.77              | 13.58       | -29.19      | -25.00      | 4.19        | Vertical     |
| 10140.00                                                                                                           | -52.63              | 17.44       | -35.19      | -25.00      | 10.19       | Vertical     |
| 5070.00                                                                                                            | -50.82              | 4.55        | -46.27      | -25.00      | 21.27       | Horizontal   |
| 7605.00                                                                                                            | -44.89              | 13.58       | -31.31      | -25.00      | 6.31        | Horizontal   |
| 10140.00                                                                                                           | -53.49              | 17.44       | -36.05      | -25.00      | 11.05       | Horizontal   |
| Highest channel                                                                                                    |                     |             |             |             |             |              |
| Frequency (MHz)                                                                                                    | Reading Level (dBm) | Factor (dB) | Level (dBm) | Limit (dBm) | Margin (dB) | Polarization |
| 5120.00                                                                                                            | -49.98              | 4.62        | -45.36      | -25.00      | 20.36       | Vertical     |
| 7680.00                                                                                                            | -43.63              | 13.18       | -30.45      | -25.00      | 5.45        | Vertical     |
| 10240.00                                                                                                           | -52.59              | 18.27       | -34.32      | -25.00      | 9.32        | Vertical     |
| 5120.00                                                                                                            | -50.64              | 4.62        | -46.02      | -25.00      | 21.02       | Horizontal   |
| 7680.00                                                                                                            | -45.20              | 13.18       | -32.02      | -25.00      | 7.02        | Horizontal   |
| 10240.00                                                                                                           | -52.79              | 18.27       | -34.52      | -25.00      | 9.52        | Horizontal   |
| <b>Remark:</b><br>1. The emission levels of below 1 GHz are lower than the limit 10dB, so not show in test report. |                     |             |             |             |             |              |

| LTE band 41 – 5 MHz bandwidth                                                                    |                     |             |             |             |             |              |
|--------------------------------------------------------------------------------------------------|---------------------|-------------|-------------|-------------|-------------|--------------|
| Lowest channel                                                                                   |                     |             |             |             |             |              |
| Frequency (MHz)                                                                                  | Reading Level (dBm) | Factor (dB) | Level (dBm) | Limit (dBm) | Margin (dB) | Polarization |
| 5075.00                                                                                          | -50.96              | 4.56        | -46.40      | -25.00      | 21.40       | Vertical     |
| 7612.50                                                                                          | -46.46              | 13.14       | -33.32      | -25.00      | 8.32        | Vertical     |
| 10150.00                                                                                         | -53.55              | 16.89       | -36.66      | -25.00      | 11.66       | Vertical     |
| 5075.00                                                                                          | -51.58              | 4.56        | -47.02      | -25.00      | 22.02       | Horizontal   |
| 7612.50                                                                                          | -51.81              | 13.14       | -38.67      | -25.00      | 13.67       | Horizontal   |
| 10150.00                                                                                         | -54.44              | 16.89       | -37.55      | -25.00      | 12.55       | Horizontal   |
| Middle channel                                                                                   |                     |             |             |             |             |              |
| Frequency (MHz)                                                                                  | Reading Level (dBm) | Factor (dB) | Level (dBm) | Limit (dBm) | Margin (dB) | Polarization |
| 5190.00                                                                                          | -51.43              | 4.76        | -46.67      | -25.00      | 21.67       | Vertical     |
| 7785.00                                                                                          | -46.89              | 13.48       | -33.41      | -25.00      | 8.41        | Vertical     |
| 10380.00                                                                                         | -53.99              | 18.00       | -35.99      | -25.00      | 10.99       | Vertical     |
| 5190.00                                                                                          | -51.45              | 4.76        | -46.69      | -25.00      | 21.69       | Horizontal   |
| 7785.00                                                                                          | -51.52              | 13.48       | -38.04      | -25.00      | 13.04       | Horizontal   |
| 10380.00                                                                                         | -54.28              | 18.00       | -36.28      | -25.00      | 11.28       | Horizontal   |
| Highest channel                                                                                  |                     |             |             |             |             |              |
| Frequency (MHz)                                                                                  | Reading Level (dBm) | Factor (dB) | Level (dBm) | Limit (dBm) | Margin (dB) | Polarization |
| 5305.00                                                                                          | -51.87              | 5.50        | -46.37      | -25.00      | 21.37       | Vertical     |
| 7957.50                                                                                          | -46.89              | 13.31       | -33.58      | -25.00      | 8.58        | Vertical     |
| 10610.00                                                                                         | -53.82              | 19.50       | -34.32      | -25.00      | 9.32        | Vertical     |
| 5305.00                                                                                          | -51.26              | 5.50        | -45.76      | -25.00      | 20.76       | Horizontal   |
| 7957.50                                                                                          | -51.07              | 13.31       | -37.76      | -25.00      | 12.76       | Horizontal   |
| 10610.00                                                                                         | -54.06              | 19.50       | -34.56      | -25.00      | 9.56        | Horizontal   |
| <b>Remark:</b>                                                                                   |                     |             |             |             |             |              |
| 1. The emission levels of below 1 GHz are lower than the limit 10dB, so not show in test report. |                     |             |             |             |             |              |

| LTE band 41 – 20 MHz bandwidth                                                                   |                     |             |             |             |             |              |
|--------------------------------------------------------------------------------------------------|---------------------|-------------|-------------|-------------|-------------|--------------|
| Lowest channel                                                                                   |                     |             |             |             |             |              |
| Frequency (MHz)                                                                                  | Reading Level (dBm) | Factor (dB) | Level (dBm) | Limit (dBm) | Margin (dB) | Polarization |
| 5090.00                                                                                          | -51.17              | 4.56        | -46.61      | -25.00      | 21.61       | Vertical     |
| 7635.00                                                                                          | -46.21              | 13.29       | -32.92      | -25.00      | 7.92        | Vertical     |
| 10180.00                                                                                         | -54.03              | 16.93       | -37.10      | -25.00      | 12.10       | Vertical     |
| 5090.00                                                                                          | -51.55              | 4.56        | -46.99      | -25.00      | 21.99       | Horizontal   |
| 7635.00                                                                                          | -51.83              | 13.29       | -38.54      | -25.00      | 13.54       | Horizontal   |
| 10180.00                                                                                         | -54.90              | 16.93       | -37.97      | -25.00      | 12.97       | Horizontal   |
| Middle channel                                                                                   |                     |             |             |             |             |              |
| Frequency (MHz)                                                                                  | Reading Level (dBm) | Factor (dB) | Level (dBm) | Limit (dBm) | Margin (dB) | Polarization |
| 5190.00                                                                                          | -51.68              | 4.76        | -46.92      | -25.00      | 21.92       | Vertical     |
| 7785.00                                                                                          | -46.56              | 13.48       | -33.08      | -25.00      | 8.08        | Vertical     |
| 10380.00                                                                                         | -53.93              | 18.00       | -35.93      | -25.00      | 10.93       | Vertical     |
| 5190.00                                                                                          | -51.58              | 4.76        | -46.82      | -25.00      | 21.82       | Horizontal   |
| 7785.00                                                                                          | -51.87              | 13.48       | -38.39      | -25.00      | 13.39       | Horizontal   |
| 10380.00                                                                                         | -54.72              | 18.00       | -36.72      | -25.00      | 11.72       | Horizontal   |
| Highest channel                                                                                  |                     |             |             |             |             |              |
| Frequency (MHz)                                                                                  | Reading Level (dBm) | Factor (dB) | Level (dBm) | Limit (dBm) | Margin (dB) | Polarization |
| 5290.00                                                                                          | -52.25              | 5.41        | -46.84      | -25.00      | 21.84       | Vertical     |
| 7935.00                                                                                          | -47.09              | 13.33       | -33.76      | -25.00      | 8.76        | Vertical     |
| 10580.00                                                                                         | -54.28              | 19.67       | -34.61      | -25.00      | 9.61        | Vertical     |
| 5290.00                                                                                          | -51.27              | 5.41        | -45.86      | -25.00      | 20.86       | Horizontal   |
| 7935.00                                                                                          | -51.57              | 13.33       | -38.24      | -25.00      | 13.24       | Horizontal   |
| 10580.00                                                                                         | -54.22              | 19.67       | -34.55      | -25.00      | 9.55        | Horizontal   |
| <b>Remark:</b>                                                                                   |                     |             |             |             |             |              |
| 1. The emission levels of below 1 GHz are lower than the limit 10dB, so not show in test report. |                     |             |             |             |             |              |

-----End of report-----