



## RF TEST REPORT

**Applicant** Huawei Technologies Co., Ltd.  
**FCC ID** QISSTK-LX1  
**Product** Smart Phone  
**Model** STK-LX1  
**Report No.** R1903H0032-R3V1  
**Issue Date** March 27, 2019

TA Technology (Shanghai) Co., Ltd. tested the above equipment in accordance with the requirements in **FCC CFR47 Part 2 (2018)/ FCC CFR47 Part 27C (2018)**. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

*Performed by: Peng Tao*

*Approved by: Kai Xu*

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## Summary of Measurement Results

| Number                                                                                                                                                          | Test Case                  | Clause in FCC rules | Verdict |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|---------------------|---------|
| 8                                                                                                                                                               | Radiates Spurious Emission | 2.1053 /27.53(m)    | PASS    |
| Date of Testing: February 28, 2019 ~ March 7, 2019                                                                                                              |                            |                     |         |
| Note: PASS: The EUT complies with the essential requirements in the standard.<br>FAIL: The EUT does not comply with the essential requirements in the standard. |                            |                     |         |

# **1 Test Laboratory**

## **1.1 Notes of the Test Report**

This report shall not be reproduced in full or partial, without the written approval of **TA technology (shanghai) co., Ltd.** The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein .Measurement Uncertainties were not taken into account and are published for informational purposes only. This report is written to support regulatory compliance of the applicable standards stated above.

## **1.2 Test facility**

### **CNAS (accreditation number: L2264)**

TA Technology (Shanghai) Co., Ltd. has obtained the accreditation of China National Accreditation Service for Conformity Assessment (CNAS).

### **FCC (Designation number: CN1179, Test Firm Registration Number: 446626)**

TA Technology (Shanghai) Co., Ltd. has been listed on the US Federal Communications Commission list of test facilities recognized to perform electromagnetic emissions measurements.

### **IC (recognition number is 8510A)**

TA Technology (Shanghai) Co., Ltd. has been listed by industry Canada to perform electromagnetic emission measurement.

### **VCCI (recognition number is C-4595, T-2154, R-4113, G-10766)**

TA Technology (Shanghai) Co., Ltd. has been listed by industry Japan to perform electromagnetic emission measurement.

### **A2LA (Certificate Number: 3857.01)**

TA Technology (Shanghai) Co., Ltd. has been listed by American Association for Laboratory Accreditation to perform electromagnetic emission measurement.

### 1.3 Testing Location

Company: TA Technology (Shanghai) Co., Ltd.  
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## 2 General Description of Equipment under Test

### Client Information

|                             |                                                                                                                                  |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| <b>Applicant</b>            | Huawei Technologies Co., Ltd.                                                                                                    |
| <b>Applicant address</b>    | Administration Building, Headquarters of Huawei Technologies Co., Ltd., Bantian, Longgang District, Shenzhen, 518129, P.R.China. |
| <b>Manufacturer</b>         | Huawei Technologies Co., Ltd.                                                                                                    |
| <b>Manufacturer address</b> | Administration Building, Headquarters of Huawei Technologies Co., Ltd., Bantian, Longgang District, Shenzhen, 518129, P.R.China. |

### General information

| EUT Description              |                                                                                                                                                                                                                                 |             |             |
|------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------|
| Model                        | STK-LX1                                                                                                                                                                                                                         |             |             |
| IMEI                         | IMEI 1:860815040043101<br>IMEI 2:860815040048027                                                                                                                                                                                |             |             |
| Hardware Version             | HL1STKM                                                                                                                                                                                                                         |             |             |
| Software Version             | STK-LX1 9.0.1.18                                                                                                                                                                                                                |             |             |
| Power Supply                 | Battery/AC adapter                                                                                                                                                                                                              |             |             |
| Antenna Type                 | Internal Antenna                                                                                                                                                                                                                |             |             |
| Test Mode(s)                 | LTE Band 7;                                                                                                                                                                                                                     |             |             |
| Test Modulation              | QPSK 16QAM;                                                                                                                                                                                                                     |             |             |
| LTE Category                 | 6                                                                                                                                                                                                                               |             |             |
| Rated Power Supply Voltage:  | 3.82V                                                                                                                                                                                                                           |             |             |
| Extreme Voltage              | Minimum: 3.6V    Maximum: 4.4V                                                                                                                                                                                                  |             |             |
| Extreme Temperature          | Lowest: 0°C    Highest: +35°C                                                                                                                                                                                                   |             |             |
| Operating Frequency Range(s) | Mode                                                                                                                                                                                                                            | Tx (MHz)    | Rx (MHz)    |
|                              | LTE Band 7                                                                                                                                                                                                                      | 2500 ~ 2570 | 2620 ~ 2690 |
| EUT Accessory                |                                                                                                                                                                                                                                 |             |             |
| Adapter 1                    | Manufacturer: Huawei Technologies Co., Ltd.<br>Model: HW-050200U01<br>Input Voltage: 100-240V ~50/60Hz    0.5A<br><br>Output Voltage: 5V  2A |             |             |
| Adapter 2                    | Manufacturer: Huawei Technologies Co., Ltd.<br>Model: HW-050200E01<br>Input Voltage: 100-240V ~50/60Hz    0.5A<br><br>Output Voltage: 5V  2A |             |             |
| Adapter 3                    | Manufacturer: Huawei Technologies Co., Ltd.<br>Model: HW-050200B01                                                                                                                                                              |             |             |

|             |                                                                                                                                                                                                                                                                                                                                     |
|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|             | Input Voltage: 100-240V ~50/60Hz 0.5A<br><br>Output Voltage: 5V  2A                                                                                                                                                                                |
| Adapter 4   | Manufacturer: Huawei Technologies Co., Ltd.<br>Model: HW-050200A01<br>Input Voltage: 100-240V ~50/60Hz 0.5A<br><br>Output Voltage: 5V  2A                                                                                                          |
| Adapter 5   | Manufacturer: Huawei Technologies Co., Ltd.<br>Model: HW-050200U02<br>Input Voltage: 100-240V ~50/60Hz 0.5A<br><br>Output Voltage: 5V  2A                                                                                                          |
| Adapter 6   | Manufacturer: Huawei Technologies Co., Ltd.<br>Model: HW-050200E02<br>Input Voltage: 100-240V ~50/60Hz 0.5A<br><br>Output Voltage: 5V  2A                                                                                                          |
| Adapter 7   | Manufacturer: Huawei Technologies Co., Ltd.<br>Model: HW-050200A02<br>Input Voltage: 100-240V ~50/60Hz 0.5A<br><br>Output Voltage: 5V  2A                                                                                                        |
| Adapter 8   | Manufacturer: Huawei Technologies Co., Ltd.<br>Model: HW-050200B02<br>Input Voltage: 100-240V ~50/60Hz 0.5A<br><br>Output Voltage: 5V  2A                                                                                                        |
| Battery     | Manufacturer: Huawei Technologies Co., Ltd.<br>Model: HB446486ECW<br>Rated capacity: 3900mAh<br><br>Nominal Voltage:  +3.82V<br><br>Charging Voltage:  +4.40V |
| Earphone 1  | Manufacturer: Boluo County Quancheng Electronic Co.,ltd<br>Model: 1293-3283-3.5MM-322                                                                                                                                                                                                                                               |
| Earphone 2  | Manufacturer: Jiangxi Lianchuang Hongsheng Electronic Co. ,LTD<br>Model: MEND1532B528A02                                                                                                                                                                                                                                            |
| USB cable 1 | Manufacturer: NingBo Broad Telecommunication Co.,Ltd.<br>Model: WA0020                                                                                                                                                                                                                                                              |
| USB cable 2 | Manufacturer: LUXSHARE Precision Industry Co., Ltd.<br>Model: L99UC131-CS-H                                                                                                                                                                                                                                                         |



|                                                                                                                                                                                                                                                                                                                         |                                                                                           |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
| USB cable 3                                                                                                                                                                                                                                                                                                             | Manufacturer: HONGFUJIN PRECISION INDUSTRIAL (SHENZHEN).LTD<br>Model: CUDU01B-HC295-EH    |
| USB cable 4                                                                                                                                                                                                                                                                                                             | Manufacturer: Freeport Resources Enterprises (Jiangxi) Co.,Ltd<br>Model: 18-93C2CHO-001HF |
| USB cable 5                                                                                                                                                                                                                                                                                                             | Manufacturer: Dongguan Mingji Electronics Technology Group Co.,Ltd<br>Model: 203-1572-0   |
| Note: 1.The information of the EUT is declared by the manufacturer.<br>2. There is more than one SIM/ Adapter /USB cable /Earphone, each one should be applied throughout the compliance test respectively, and however, only the worst case (SIM 1/Adapter 1/USB cable 2/ Earphone 2) will be recorded in this report. |                                                                                           |

| Band   | Second-Antenna | Main-Antenna |
|--------|----------------|--------------|
|        | Gain (dBi)     | Gain (dBi)   |
| LTE B7 | -3.3           | -0.1         |



### 3 Applied Standards

According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

#### Test standards

**FCC CFR47 Part 2 (2018)**

**FCC CFR47 Part 27C (2018)**

**ANSI C63.26 (2015)**

**KDB 971168 D01 Power Meas License Digital Systems v03r01**

## 4 Test Configuration

There is more than one SIM card slot, each one should be applied throughout the compliance test respectively, and however, only the worst case (SIM 1) will be recorded in this report

Radiated measurements are performed by rotating the EUT in three different orthogonal test planes. EUT stand-up position (Z axis), lie-down position (X, Y axis). Receiver antenna polarization (horizontal and vertical), the worst emission was found in position (Z axis, horizontal polarization) and the worst case was recorded.

All mode and data rates and positions and RB size and modulations were investigated.

Subsequently, only the worst case emissions are reported.

Test modes are chosen to be reported as the worst case configuration below for LTE Band 7:

| Test items                 | Modes                                                                                                                                 | Bandwidth (MHz) |   |   |    |    |    | Modulation |       | RB |     |      | Test Channel |   |   |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------|-----------------|---|---|----|----|----|------------|-------|----|-----|------|--------------|---|---|
|                            |                                                                                                                                       | 1.4             | 3 | 5 | 10 | 15 | 20 | QPSK       | 16QAM | 1  | 50% | 100% | L            | M | H |
| Radiates Spurious Emission | LTE 7                                                                                                                                 | -               | - | O | -  | -  | O  | O          | -     | O  | -   | -    | -            | O | - |
| Note                       | 1. The mark "O" means that this configuration is chosen for testing.<br>2. The mark "-" means that this configuration is not testing. |                 |   |   |    |    |    |            |       |    |     |      |              |   |   |

## 5 Test Case Results

### 5.1 Radiates Spurious Emission

#### Ambient condition

| Temperature | Relative humidity | Pressure |
|-------------|-------------------|----------|
| 23°C ~25°C  | 45%~50%           | 101.5kPa |

#### Method of Measurement

1. The testing follows FCC KDB 971168 D01 v03r01 Section 5.8 and ANSI C63.26 (2015).
2. Below 1GHz: The EUT is placed on a turntable 0.8 meters above the ground in the chamber, 3 meter away from the antenna. The maximal emission value is acquired by adjusting the antenna height, polarisation and turntable azimuth. Normally, the height range of antenna is 1 m to 4 m, the azimuth range of turntable is 0° to 360°, and the receive antenna has two polarizations Vertical (V) and Horizontal (H). Above 1GHz: (Note: the FCC's permission to use 1.5m as an alternative per TCBC Conf call of Dec. 2, 2014.) The EUT is placed on a turntable 1.5 meters above the ground in the chamber, 3 meter away from the antenna. The maximal emission value is acquired by adjusting the antenna height, polarisation and turntable azimuth. Normally, the height range of antenna is 1 m to 4 m, the azimuth range of turntable is 0° to 360°, and the receive antenna has two polarizations Vertical (V) and Horizontal (H).
3. A loop antenna, A log-periodic antenna or horn antenna shall be substituted in place of the EUT. The log-periodic antenna will be driven by a signal generator and the level will be adjusted till the same power value on the spectrum analyzer or receiver. The level of the spurious emissions can be calculated through the level of the signal generator, cable loss, the gain of the substitution antenna and the reading of the spectrum analyzer or receiver.
4. The EUT is then put into continuously transmitting mode at its maximum power level during the test. Set Test Receiver or Spectrum RBW=200Hz,VBW=600Hz for 9kHz150kHz , RBW=10kHz, VBW=30kHz 150kHz-30MHz ,RBW=100kHz,VBW=300kHz for 30MHz to 1GHz and RBW=1MHz, VBW=3MHz for above 1GHz And the maximum value of the receiver should be recorded as (Pr).
5. The EUT shall be replaced by a substitution antenna. In the chamber, an substitution antenna for the frequency band of interest is placed at the reference point of the chamber. An RF Signal source for the frequency band of interest is connected to the substitution antenna with a cable that has been constructed to not interfere with the radiation pattern of the antenna. A power (PMea) is applied to the input of the substitution antenna, and adjust the level of the signal generator output until the value of the receiver reach the previously recorded (Pr). The power of signal source (PMea) is recorded. The test should be performed by rotating the test item and adjusting the receiving antenna polarization.
6. A amplifier should be connected to the Signal Source output port. And the cable should be connect between the Amplifier and the Substitution Antenna. The cable loss (Pcl) ,the Substitution Antenna Gain (Ga) and the Amplifier Gain (PAg) should be recorded after test.
7. The measurement results are obtained as described below:  
Power(EIRP)=PMea- PAg - Pcl + Ga

The measurement results are amend as described below:

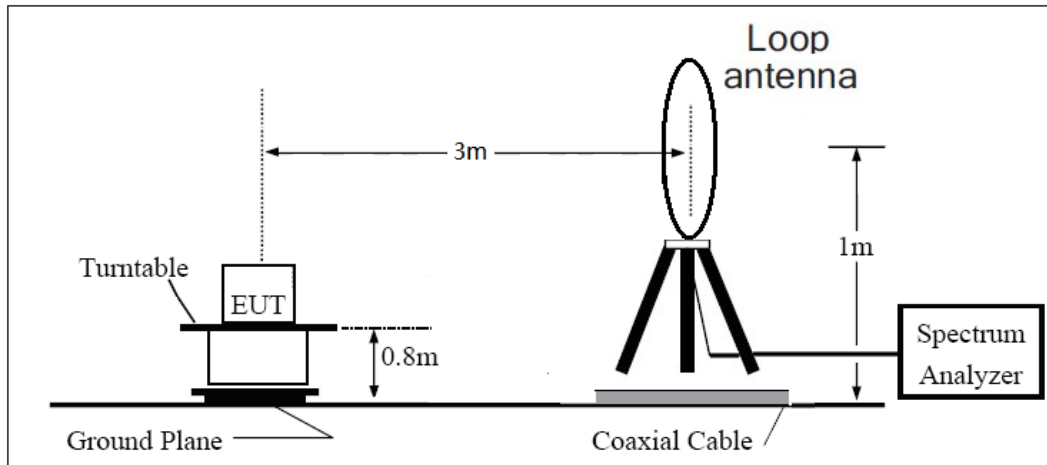
Power(EIRP)=PMea- Pcl + Ga

8. This value is EIRP since the measurement is calibrated using an antenna of known gain (2.15 dBi) and known input power. ERP can be calculated from EIRP by subtracting the gain of the dipole, ERP = EIRP-2.15dBi.

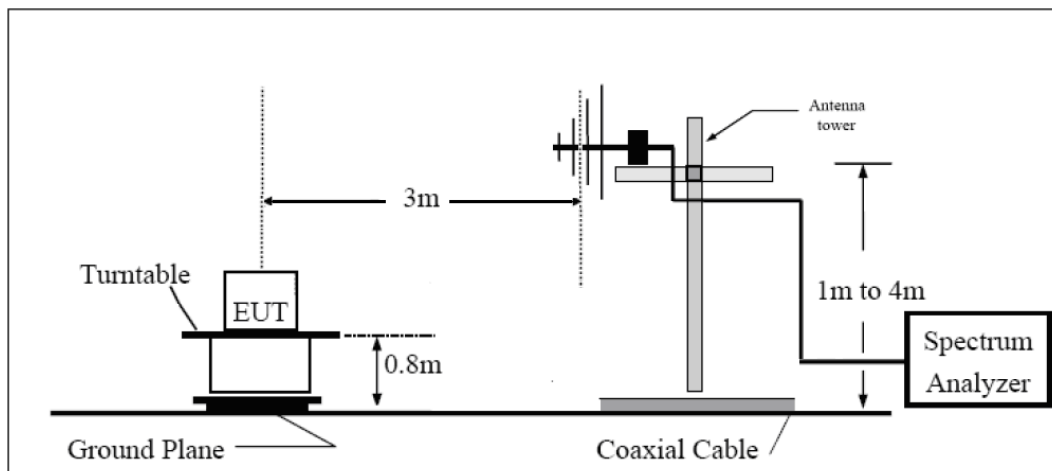
The modulation mode and RB allocation refer to section 5.1, using the maximum output power configuration.

### Test setup

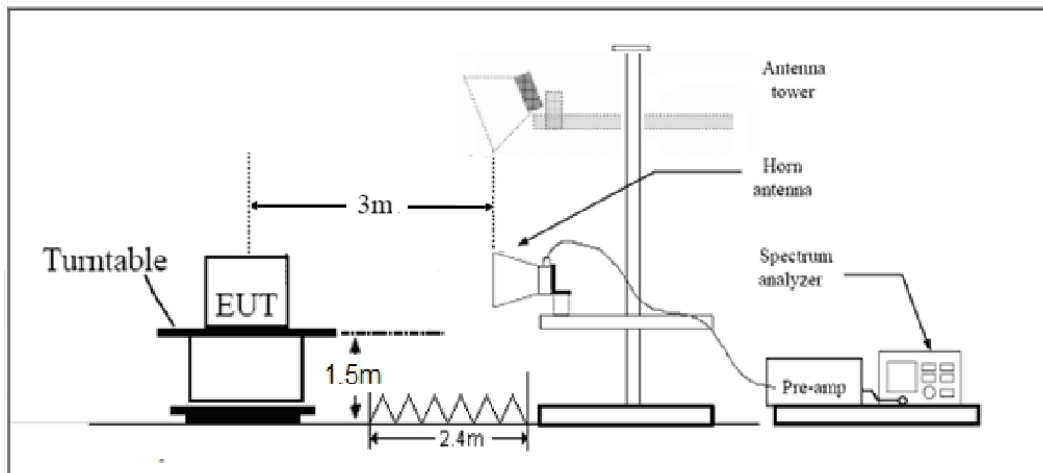
#### 9KHz ~ 30MHz



#### 30MHz ~ 1GHz



#### Above 1GHz



Note: Area side:2.4mX3.6m

## Limits

LTE -7 Rule Part 27.53(m)  $55 + 10 \log (P)$  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)(4) of this section.

|                     |         |
|---------------------|---------|
| Part 27.53(m) Limit | -25 dBm |
|---------------------|---------|

## Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor  $k = \pm 1.96$ ,  $U = \pm 3.55$  dB.

## Test Result

Sweep the whole frequency band through the range from 9kHz to the 10th harmonic of the carrier, the emissions below the noise floor will not be recorded in the report.

### Main-Antenna

LTE Band 7 QPSK 5MHz CH-Middle, RB 1

| Harmonic | Frequency (MHz) | SG (dBm) | Cable Loss (dB) | Gain (dBi) | Antenna Polarization | EIRP Level (dBm) | Limit (dBm) | Margin (dB) | Azimuth (deg) |
|----------|-----------------|----------|-----------------|------------|----------------------|------------------|-------------|-------------|---------------|
| 2        | 5,065.8         | -46.87   | 2.00            | 9.15       | Horizontal           | -39.72           | -25.00      | 14.72       | 90            |
| 3        | 7,598.6         | -49.50   | 2.50            | 11.35      | Horizontal           | -40.65           | -25.00      | 15.65       | 135           |
| 4        | 10,130.6        | -53.11   | 4.20            | 12.05      | Horizontal           | -45.26           | -25.00      | 20.26       | 135           |
| 5        | 12,675.0        | -53.25   | 5.20            | 12.85      | Horizontal           | -45.60           | -25.00      | 20.60       | 45            |
| 6        | 15,210.0        | -55.50   | 5.50            | 14.23      | Horizontal           | -46.77           | -25.00      | 21.77       | 0             |
| 7        | 17,745.0        | -51.86   | 5.70            | 14.15      | Horizontal           | -43.41           | -25.00      | 18.41       | 225           |
| 8        | 20,280.0        | --       | --              | --         | --                   | --               | --          | --          | --            |
| 9        | 22,815.0        | --       | --              | --         | --                   | --               | --          | --          | --            |
| 10       | 25,350.0        | --       | --              | --         | --                   | --               | --          | --          | --            |

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.  
2. The worst emission was found in the antenna is Horizontal position.

LTE Band 7 QPSK 20MHz CH-Middle, RB 1

| Harmonic | Frequency (MHz) | SG (dBm) | Cable Loss (dB) | Gain (dBi) | Antenna Polarization | EIRP Level (dBm) | Limit (dBm) | Margin (dB) | Azimuth (deg) |
|----------|-----------------|----------|-----------------|------------|----------------------|------------------|-------------|-------------|---------------|
| 2        | 5,052.4         | -51.23   | 2.00            | 10.15      | Horizontal           | -43.08           | -25.00      | 18.08       | 225           |
| 3        | 7,605.0         | -45.97   | 2.50            | 11.35      | Horizontal           | -37.12           | -25.00      | 12.12       | 45            |
| 4        | 10,140.0        | -53.33   | 4.20            | 12.05      | Horizontal           | -45.48           | -25.00      | 20.48       | 90            |
| 5        | 12,675.0        | -52.40   | 5.20            | 14.85      | Horizontal           | -42.75           | -25.00      | 17.75       | 135           |
| 6        | 15,210.0        | -54.79   | 5.50            | 13.23      | Horizontal           | -47.06           | -25.00      | 22.06       | 135           |
| 7        | 17,745.0        | -50.30   | 5.70            | 12.15      | Horizontal           | -43.85           | -25.00      | 18.85       | 90            |
| 8        | 20,280.0        | --       | --              | --         | --                   | --               | --          | --          | --            |
| 9        | 22,815.0        | --       | --              | --         | --                   | --               | --          | --          | --            |
| 10       | 25,350.0        | --       | --              | --         | --                   | --               | --          | --          | --            |

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.  
2. The worst emission was found in the antenna is Horizontal position.

**Second-Antenna**

LTE Band 7 QPSK 5MHz CH-Middle, RB 1

| Harmonic | Frequency (MHz) | SG (dBm) | Cable Loss (dB) | Gain (dBi) | Antenna Polarization | EIRP Level (dBm) | Limit (dBm) | Margin (dB) | Azimuth (deg) |
|----------|-----------------|----------|-----------------|------------|----------------------|------------------|-------------|-------------|---------------|
| 2        | 5,065.8         | -51.37   | 2.00            | 9.15       | Horizontal           | -44.22           | -25.00      | 19.22       | 45            |
| 3        | 7,598.6         | -49.08   | 2.50            | 11.35      | Horizontal           | -40.23           | -25.00      | 15.23       | 315           |
| 4        | 10,130.6        | -53.03   | 4.20            | 12.05      | Horizontal           | -45.18           | -25.00      | 20.18       | 225           |
| 5        | 12,675.0        | -53.12   | 5.20            | 12.85      | Horizontal           | -45.47           | -25.00      | 20.47       | 90            |
| 6        | 15,210.0        | -54.90   | 5.50            | 14.23      | Horizontal           | -46.17           | -25.00      | 21.17       | 0             |
| 7        | 17,745.0        | -51.88   | 5.70            | 14.15      | Horizontal           | -43.43           | -25.00      | 18.43       | 180           |
| 8        | 20,280.0        | --       | --              | --         | --                   | --               | --          | --          | --            |
| 9        | 22,815.0        | --       | --              | --         | --                   | --               | --          | --          | --            |
| 10       | 25,350.0        | --       | --              | --         | --                   | --               | --          | --          | --            |

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.  
2. The worst emission was found in the antenna is Horizontal position.

LTE Band 7 QPSK 20MHz CH-Middle, RB 1

| Harmonic | Frequency (MHz) | SG (dBm) | Cable Loss (dB) | Gain (dBi) | Antenna Polarization | EIRP Level (dBm) | Limit (dBm) | Margin (dB) | Azimuth (deg) |
|----------|-----------------|----------|-----------------|------------|----------------------|------------------|-------------|-------------|---------------|
| 2        | 5,052.4         | -55.35   | 2.00            | 10.15      | Horizontal           | -47.20           | -25.00      | 22.20       | 180           |
| 3        | 7,605.0         | -44.29   | 2.50            | 11.35      | Horizontal           | -35.44           | -25.00      | 10.44       | 270           |
| 4        | 10,140.0        | -50.75   | 4.20            | 12.05      | Horizontal           | -42.90           | -25.00      | 17.90       | 0             |
| 5        | 12,675.0        | -51.59   | 5.20            | 14.85      | Horizontal           | -41.94           | -25.00      | 16.94       | 315           |
| 6        | 15,210.0        | -54.04   | 5.50            | 13.23      | Horizontal           | -46.31           | -25.00      | 21.31       | 225           |
| 7        | 17,745.0        | -49.59   | 5.70            | 12.15      | Horizontal           | -43.14           | -25.00      | 18.14       | 135           |
| 8        | 20,280.0        | --       | --              | --         | --                   | --               | --          | --          | --            |
| 9        | 22,815.0        | --       | --              | --         | --                   | --               | --          | --          | --            |
| 10       | 25,350.0        | --       | --              | --         | --                   | --               | --          | --          | --            |

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.  
2. The worst emission was found in the antenna is Horizontal position.

## 6 Main Test Instruments

| Name                   | Manufacturer | Type         | Serial Number | Calibration Date | Expiration Date |
|------------------------|--------------|--------------|---------------|------------------|-----------------|
| Base Station Simulator | R&S          | CMW500       | 113824        | 2018-05-20       | 2019-05-19      |
| Power Splitter         | Hua Xiang    | SHX-GF2-2-13 | 10120101      | /                | /               |
| Spectrum Analyzer      | Key sight    | N9010A       | MY50210259    | 2018-05-20       | 2019-05-19      |
| Signal Analyzer        | R&S          | FSV30        | 100815        | 2018-12-16       | 2019-12-15      |
| Loop Antenna           | SCHWARZBECK  | FMZB1519     | 1519-047      | 2017-09-26       | 2019-09-25      |
| Trilog Antenna         | SCHWARZBECK  | VUBL 9163    | 9163-201      | 2017-11-18       | 2019-11-17      |
| Horn Antenna           | R&S          | HF907        | 100126        | 2018-07-07       | 2020-07-06      |
| Horn Antenna           | ETS-Lindgren | 3160-09      | 00102643      | 2018-06-20       | 2020-06-19      |
| Signal generator       | R&S          | SMB 100A     | 102594        | 2018-05-20       | 2019-05-19      |
| Climatic Chamber       | ESPEC        | SU-242       | 93000506      | 2017-12-17       | 2020-12-16      |
| Preamplifier           | R&S          | SCU18        | 102327        | 2018-05-20       | 2019-05-19      |
| MOB COMMS DC SUPPLY    | Keysight     | 66319D       | MY43004105    | 2018-05-21       | 2019-05-20      |
| RF Cable               | Agilent      | SMA 15cm     | 0001          | 2018-12-16       | 2019-03-15      |
| Software               | R&S          | EMC32        | 9.26.0        | /                | /               |

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