



# FCC RF Test Report

**APPLICANT** : Sony Mobile Communications Inc.  
**EQUIPMENT** : GSM/WCDMA/LTE Phone+Bluetooth, DTS/UNII  
a/b/g/n/ac and NFC  
**BRAND NAME** : Sony  
**FCC ID** : PY7-78553D  
**STANDARD** : 47 CFR Part 2, 22(H), 24(E), 27  
**CLASSIFICATION** : PCS Licensed Transmitter Held to Ear (PCE)

This is a variant report which is only valid together with the original test report. The product was received on Jun. 27, 2017 and completely tested on Oct. 31, 2017. We, SPORTON INTERNATIONAL INC., would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI / TIA-603-E-2016 and the testing has shown the tested sample to be in compliance with the applicable technical standards. The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC., the test report shall not be reproduced except in full.

Reviewed by: Joseph Lin / Supervisor

Approved by: Jones Tsai / Manager



Testing Laboratory  
1190

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FCC ID : PY7-78553D

Page Number : 1 of 18

Report Issued Date : Nov. 06, 2017

Report Version : Rev. 01

Report Template No.: BU5-FGLTE Version 2.0



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### REVISION HISTORY

| REPORT NO.   | VERSION | DESCRIPTION             | ISSUED DATE   |
|--------------|---------|-------------------------|---------------|
| FG762711-01B | Rev. 01 | Initial issue of report | Nov. 06, 2017 |
|              |         |                         |               |
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### SUMMARY OF TEST RESULT

| Report Section | FCC Rule                            | Description   | Limit                               | Result | Remark                                |
|----------------|-------------------------------------|---|-------------------------------------|--------|---------------------------------------|
| 3.4            | §2.1046                             | Conducted Output Power                                | Reporting Only                      | PASS   | -                                     |
|                | §22.913(a)(2)                       | Effective Radiated Power (Band 5)                     | ERP < 7 Watt                        |        |                                       |
|                | §24.232(c)<br>§27.50(h)(2)          | Equivalent Isotropic Radiated Power (Band 2) (Band 7) | EIRP < 2Watt                        |        |                                       |
| 4.4            | §2.1053<br>§22.917(a)<br>§24.238(a) | Radiated Spurious Emission (Band 2) (Band 5)          | < 43+10log <sub>10</sub> (P[Watts]) | PASS   | Under limit 14.32 dB at 10008.000 MHz |
|                | §2.1053<br>§27.53(m)(4)             | Radiated Spurious Emission (Band 7)                   | < 55+10log <sub>10</sub> (P[Watts]) |        |                                       |



# 1 General Description

## 1.1 Applicant

Sony Mobile Communications Inc.

4-12-3 Higashi-Shinagawa, Shinagawa-ku, Tokyo, 140-0002, Japan

## 1.2 Manufacturer

Sony Mobile Communications Inc.

4-12-3 Higashi-Shinagawa, Shinagawa-ku, Tokyo, 140-0002, Japan

## 1.3 Product Feature of Equipment Under Test

GSM/WCDMA/LTE, Bluetooth, DTS/UNII a/b/g/n/ac, FM Receiver, NFC, and GPS

| Standards-related Product Specification |  |
|---|--|
| Antenna Type                            | Main Antenna : PIFA Antenna<br>Aux. Antenna : PIFA Antenna |

**Remark:** This is a variant report. All the test cases were performed on original report which can be referred to Sporton Report Number FG762713-01B.

| EUT Information List |            |            |  |
|----------------------|------------|------------|--|
| HW Version           | SW Version | S/N        | Performed Test Item  |
| A                    | 2.27       | CQ3000017K | Conducted Measurement<br>ERP/EIRP Test<br>Radiated Spurious Emission |

| Accessory List |                     |
|----------------|---------------------|
| AC Adapter     | Model No. : UCH12   |
|                | S/N : VB17W34100199 |
| Earphone 1     | Model No. : MH410c  |
|                | S/N : N/A           |
| USB Cable      | Model No. : UCB20   |
|                | S/N : N/A           |

**Note:**

1. Above EUT list and accessory list used are electrically identical per declared by manufacturer.
2. Above the accessories list are used to exercise the EUT during test.
3. For other wireless features of this EUT, test report will be issued separately.

## 1.4 Modification of EUT

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



### 1.5 Emission Designator

| LTE Band 2 |                       | QPSK            | 16QAM           | 64QAM           |
|------------|-----------------------|-----------------|-----------------|-----------------|
| BW (MHz)   | Frequency Range (MHz) | Maximum EIRP(W) | Maximum EIRP(W) | Maximum EIRP(W) |
| 1.4        | 1850.7 ~ 1909.3       | 0.2594          | 0.2089          | 0.1652          |
| 3          | 1851.5 ~ 1908.5       | 0.2570          | 0.2089          | 0.1660          |
| 5          | 1852.5 ~ 1907.5       | 0.2588          | 0.2075          | 0.1652          |
| 10         | 1855.0 ~ 1905.0       | 0.2559          | 0.2089          | 0.1656          |
| 15         | 1857.5 ~ 1902.5       | 0.2541          | 0.2084          | 0.1641          |
| 20         | 1860.0 ~ 1900.0       | 0.2600          | 0.2080          | 0.1637          |
| LTE Band 5 |                       | QPSK            | 16QAM           | 64QAM           |
| BW (MHz)   | Frequency Range (MHz) | Maximum ERP(W)  | Maximum ERP(W)  | Maximum ERP(W)  |
| 1.4        | 824.7 ~ 848.3         | 0.0885          | 0.0736          | 0.0577          |
| 3          | 825.5 ~ 847.5         | 0.0883          | 0.0741          | 0.0583          |
| 5          | 826.5 ~ 846.5         | 0.0885          | 0.0748          | 0.0582          |
| 10         | 829.0 ~ 844.0         | 0.0914          | 0.0760          | 0.0604          |
| LTE Band 7 |                       | QPSK            | 16QAM           | 64QAM           |
| BW (MHz)   | Frequency Range (MHz) | Maximum EIRP(W) | Maximum EIRP(W) | Maximum EIRP(W) |
| 5          | 2502.5 ~ 2567.5       | 0.2897          | 0.2339          | 0.1854          |
| 10         | 2505.0 ~ 2565.0       | 0.2891          | 0.2328          | 0.1854          |
| 15         | 2507.5 ~ 2562.5       | 0.2897          | 0.2339          | 0.1858          |
| 20         | 2510.0 ~ 2560.0       | 0.2904          | 0.2339          | 0.1858          |



### 1.6 Testing Location

Sporton Lab is accredited to ISO 17025 by Taiwan Accreditation Foundation (TAF code : 1190) and the FCC designation No. TW1190 and No. TW0007 under the FCC 2.948(e) by Mutual Recognition Agreement (MRA) in FCC Test.

|                           |  |
|---------------------------|--|
| <b>Test Site</b>          | SPORTON INTERNATIONAL INC.   |
| <b>Test Site Location</b> | No. 52, Hwa Ya 1 <sup>st</sup> Rd., Hwa Ya Technology Park,<br>Kwei-Shan District, Tao Yuan City, Taiwan, R.O.C.<br>TEL: +886-3-327-3456<br>FAX: +886-3-328-4978 |
| <b>Test Site No.</b>      | <b>Sporton Site No.</b>  |
|                           | TH05-HY  |

|                           |  |
|---------------------------|--|
| <b>Test Site</b>          | SPORTON INTERNATIONAL INC.   |
| <b>Test Site Location</b> | No.58, Aly. 75, Ln. 564, Wenhua 3rd Rd. Guishan Dist,<br>Taoyuan City, Taiwan (R.O.C.)<br>TEL: +886-3-327-0868<br>FAX: +886-3-327-0855 |
| <b>Test Site No.</b>      | <b>Sporton Site No.</b>  |
|                           | 03CH11-HY  |

### 1.7 Applicable Standards

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

- ♦ 47 CFR Part 2, 22(H), 24(E), 27
- ♦ ANSI / TIA-603-E-2016
- ♦ FCC KDB 971168 D01 Power Meas. License Digital Systems v03
- ♦ FCC KDB 412172 D01 Determining ERP and EIRP v01r01

**Remark:**

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.



## 2 Test Configuration of Equipment Under Test

### 2.1 Test Mode

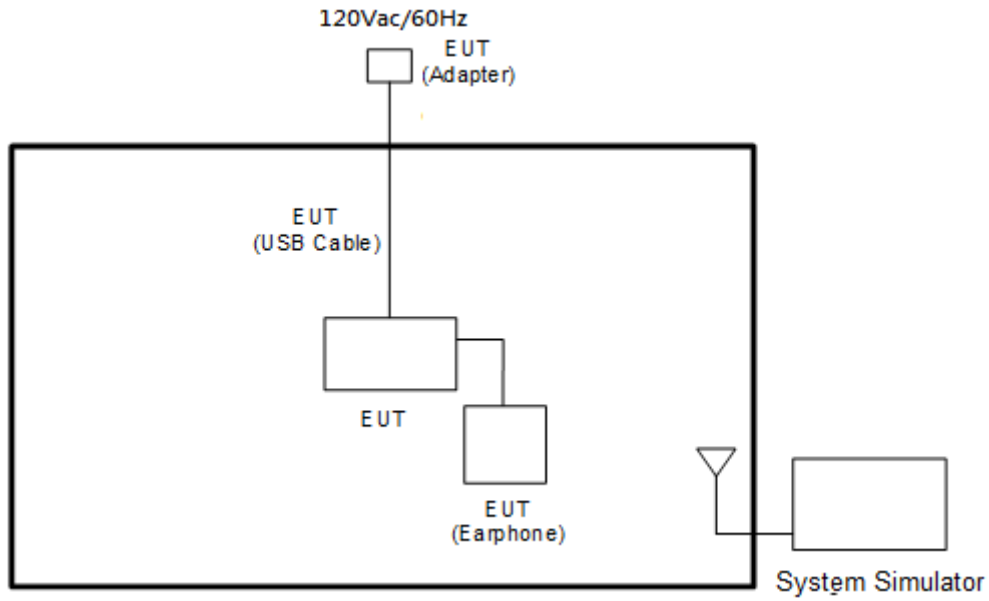
Antenna port conducted and radiated test items listed below are performed according to KDB 971168 D01 Power Meas. License Digital Systems v03 with maximum output power.

Radiated measurements are performed by rotating the EUT in three different orthogonal test planes to find the maximum emission.

| Test Items                 | Band  | Bandwidth (MHz) |   |   |    |    |    | Modulation |       |       | RB # |      |      | Test Channel |   |   |
|----------------------------|---|-----------------|---|---|----|----|----|------------|-------|-------|------|------|------|--------------|---|---|
|                            |   | 1.4             | 3 | 5 | 10 | 15 | 20 | QPSK       | 16QAM | 64QAM | 1    | Half | Full | L            | M | H |
| Max. Output Power          | 2   | v               | v | v | v  | v  | v  | v          | v     | v     | v    | v    | v    | v            | v | v |
|                            | 5   | v               | v | v | v  | -  | -  | v          | v     | v     | v    | v    | v    | v            | v | v |
|                            | 7   | -               | - | v | v  | v  | v  | v          | v     | v     | v    | v    | v    | v            | v | v |
| E.R.P./<br>E.I.R.P.        | 2   | v               | v | v | v  | v  | v  | v          | v     | v     | v    | v    |      | v            | v | v |
|                            | 5   | v               | v | v | v  | -  | -  | v          | v     | v     | v    | v    |      | v            | v | v |
|                            | 7   | -               | - | v | v  | v  | v  | v          | v     | v     | v    |      |      | v            | v | v |
| Radiated Spurious Emission | 2   | v               | v | v | v  | v  | v  | v          |       |       | v    |      |      |              | v |   |
|                            | 5   | v               | v | v | v  | -  | -  | v          |       |       | v    |      |      | v            |   | v |
|                            | 7   | -               | - | v | v  | v  | v  | v          |       |       | v    |      |      | v            | v |   |
| Note                       | <ol style="list-style-type: none"> <li>The mark "v" means that this configuration is chosen for testing</li> <li>The mark "-" means that this bandwidth is not supported.</li> <li>The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported.</li> </ol> |                 |   |   |    |    |    |            |       |       |      |      |      |              |   |   |



## 2.2 Connection Diagram of Test System



## 2.3 Support Unit used in test configuration and system

| Item | Equipment        | Trade Name | Model No. | FCC ID | Data Cable | Power Cord        |
|------|------------------|------------|-----------|--------|------------|-------------------|
| 1.   | LTE Base Station | Anritsu    | MT8820C   | N/A    | N/A        | Unshielded, 1.8 m |



### 2.4 Frequency List of Low/Middle/High Channels

| LTE Band 2 Channel and Frequency List |                        |        |        |         |
|---------------------------------------|------------------------|--------|--------|---------|
| BW [MHz]                              | Channel/Frequency(MHz) | Lowest | Middle | Highest |
| 20                                    | Channel                | 18700  | 18900  | 19100   |
|                                       | Frequency              | 1860   | 1880   | 1900    |
| 15                                    | Channel                | 18675  | 18900  | 19125   |
|                                       | Frequency              | 1857.5 | 1880   | 1902.5  |
| 10                                    | Channel                | 18650  | 18900  | 19150   |
|                                       | Frequency              | 1855   | 1880   | 1905    |
| 5                                     | Channel                | 18625  | 18900  | 19175   |
|                                       | Frequency              | 1852.5 | 1880   | 1907.5  |
| 3                                     | Channel                | 18615  | 18900  | 19185   |
|                                       | Frequency              | 1851.5 | 1880   | 1908.5  |
| 1.4                                   | Channel                | 18607  | 18900  | 19193   |
|                                       | Frequency              | 1850.7 | 1880   | 1909.3  |

| LTE Band 5 Channel and Frequency List |                        |        |        |         |
|---------------------------------------|------------------------|--------|--------|---------|
| BW [MHz]                              | Channel/Frequency(MHz) | Lowest | Middle | Highest |
| 10                                    | Channel                | 20450  | 20525  | 20600   |
|                                       | Frequency              | 829    | 836.5  | 844     |
| 5                                     | Channel                | 20425  | 20525  | 20625   |
|                                       | Frequency              | 826.5  | 836.5  | 846.5   |
| 3                                     | Channel                | 20415  | 20525  | 20635   |
|                                       | Frequency              | 825.5  | 836.5  | 847.5   |
| 1.4                                   | Channel                | 20407  | 20525  | 20643   |
|                                       | Frequency              | 824.7  | 836.5  | 848.3   |



| LTE Band 7 Channel and Frequency List |                        |        |        |         |
|---------------------------------------|------------------------|--------|--------|---------|
| BW [MHz]                              | Channel/Frequency(MHz) | Lowest | Middle | Highest |
| 20                                    | Channel                | 20850  | 21100  | 21350   |
|                                       | Frequency              | 2510   | 2535   | 2560    |
| 15                                    | Channel                | 20825  | 21100  | 21375   |
|                                       | Frequency              | 2507.5 | 2535   | 2562.5  |
| 10                                    | Channel                | 20800  | 21100  | 21400   |
|                                       | Frequency              | 2505   | 2535   | 2565    |
| 5                                     | Channel                | 20775  | 21100  | 21425   |
|                                       | Frequency              | 2502.5 | 2535   | 2567.5  |

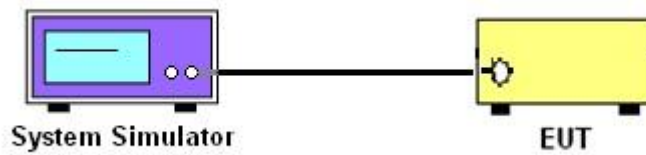
### 3 Conducted Test Items

#### 3.1 Measuring Instruments

See list of measuring instruments of this test report.

#### 3.2 Test Setup

##### 3.2.1 Conducted Output Power



#### 3.3 Test Result of Conducted Test

Please refer to Appendix A.



### 3.4 Conducted Output Power and ERP/EIRP

#### 3.4.1 Description of the Conducted Output Power Measurement and ERP/EIRP Measurement

A system simulator was used to establish communication with the EUT. Its parameters were set to force the EUT transmitting at maximum output power. The measured power in the radio frequency on the transmitter output terminals shall be reported.

The ERP of mobile transmitters must not exceed 7 Watts for LTE Band 5.

The EIRP of mobile transmitters must not exceed 2 Watts for LTE Band 2 and Band 7

According to KDB 412172 D01 Power Approach,

$EIRP = P_T + G_T - L_C$ ,  $ERP = EIRP - 2.15$ , where

$P_T$  = transmitter output power in dBm

$G_T$  = gain of the transmitting antenna in dBi

$L_C$  = signal attenuation in the connecting cable between the transmitter and antenna in dB

#### 3.4.2 Test Procedures

1. The transmitter output port was connected to the system simulator.
2. Set EUT at maximum power through the system simulator.
3. Select lowest, middle, and highest channels for each band and different modulation.
4. Measure and record the power level from the system simulator.

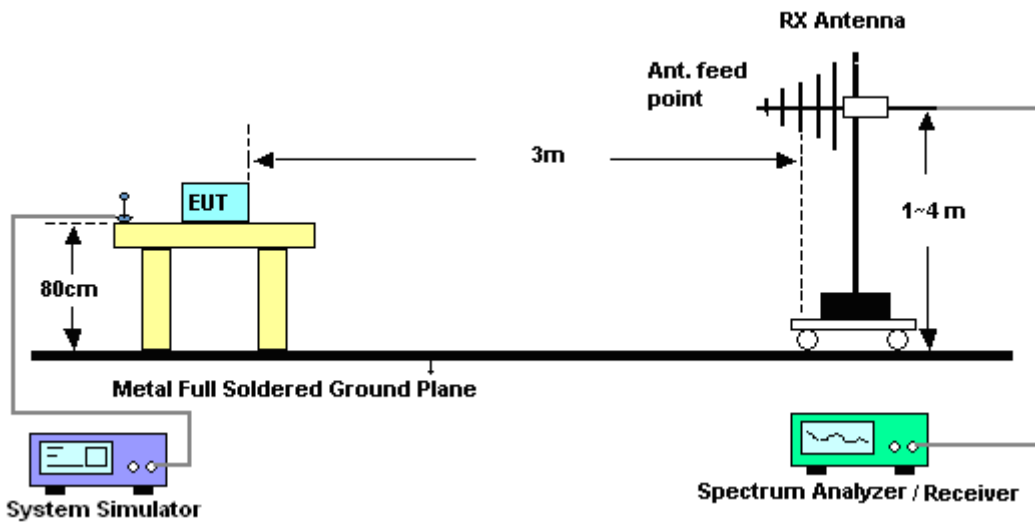
## 4 Radiated Test Items

### 4.1 Measuring Instruments

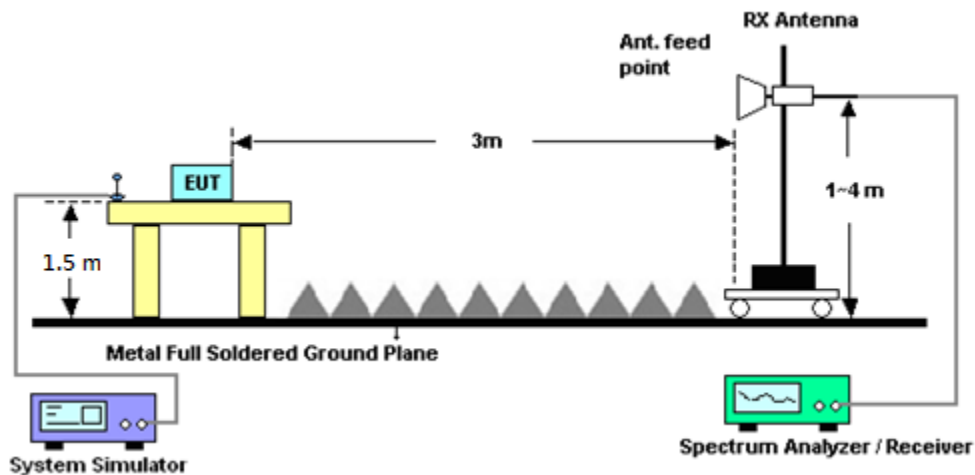
See list of measuring instruments of this test report.

### 4.2 Test Setup

#### 4.2.1 For radiated test from 30MHz to 1GHz



#### 4.2.2 For radiated test above 1GHz



### 4.3 Test Result of Radiated Test

Please refer to Appendix B.



## 4.4 Radiated Spurious Emission

### 4.4.1 Description of Radiated Spurious Emission

The radiated spurious emission was measured by substitution method according to ANSI / TIA-603-E-2016. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least  $43 + 10 \log (P)$  dB.

For Band 7:

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least  $55 + 10 \log (P)$  dB.

The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

### 4.4.2 Test Procedures

1. The testing follows FCC KDB 971168 v03 Section 5.8 and ANSI / TIA-603-E-2016 Section 2.2.12.
2. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
4. The table was rotated 360 degrees to determine the position of the highest spurious emission.
5. The height of the receiving antenna is varied between one meter and four meters to search the maximum spurious emission for both horizontal and vertical polarizations.
6. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
7. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
8. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
9. Taking the record of output power at antenna port.
10. Repeat step 7 to step 8 for another polarization.
11. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.  
The limit line is derived from  $43 + 10\log(P)$ dB below the transmitter power P(Watts)
12. For Band 7:  
The limit line is derived from  $55 + 10\log(P)$ dB below the transmitter power P(Watts)  
 $EIRP \text{ (dBm)} = S.G. \text{ Power} - Tx \text{ Cable Loss} + Tx \text{ Antenna Gain}$   
 $ERP \text{ (dBm)} = EIRP - 2.15$



## 5 List of Measuring Equipment

| Instrument                | Manufacturer   | Model No.      | Serial No.       | Characteristics                | Calibration Date | Test Date                     | Due Date      | Remark                |
|---------------------------|----------------|----------------|------------------|--------------------------------|------------------|-------------------------------|---------------|-----------------------|
| Hygrometer                | Testo          | 608-H2         | 41410069         | N/A                            | Aug. 21, 2017    | Oct. 31, 2017                 | Aug. 20, 2018 | Conducted (TH05-HY)   |
| Programmable Power Supply | GW Instek      | PSS-2005       | EL890001         | 1V~20V 0.5A~5A                 | Jan. 12, 2017    | Oct. 31, 2017                 | Jan. 11, 2018 | Conducted (TH05-HY)   |
| LTE Base Station          | Anritsu        | MT8820C        | 6201432821       | GSM/GPRS /WCDMA/LTE            | Oct. 13, 2017    | Oct. 31, 2017                 | Oct. 12, 2018 | Conducted (TH05-HY)   |
| RF Cable                  | HUBER + SUHNER | SUCOFLEX 104   | MY84209521       | 1GHz~26GHz                     | Dec. 02, 2016    | Oct. 31, 2017                 | Dec. 01, 2017 | Conducted (TH05-HY)   |
| Bilog Antenna             | TESEQ          | CBL 6111D&N-6- | 35414&AT-N06 02  | 30MHz~1GHz                     | Oct. 15, 2016    | Oct. 11, 2017 ~ Oct. 12, 2017 | Oct. 14, 2017 | Radiation (03CH11-HY) |
| Horn Antenna              | SCHWARZBECK    | BBHA 9120 D    | BBHA 9120 D 1212 | 1GHz ~ 18GHz                   | Mar. 17, 2017    | Oct. 11, 2017 ~ Oct. 12, 2017 | Mar. 16, 2018 | Radiation (03CH11-HY) |
| SHF-EHF Horn Antenna      | SCHWARZBECK    | BBHA 9170      | BBHA9170584      | 18GHz- 40GHz                   | Nov. 08, 2016    | Oct. 11, 2017 ~ Oct. 12, 2017 | Nov. 07, 2017 | Radiation (03CH11-HY) |
| Amplifier                 | SONOMA         | 310N           | 187312           | 9kHz~1GHz                      | Nov. 10, 2016    | Oct. 11, 2017 ~ Oct. 12, 2017 | Nov. 09, 2017 | Radiation (03CH11-HY) |
| Amplifier                 | MITEQ          | TTA1840-35 -HG | 1871923          | 18GHz~40GHz, VS WR : 2.5:1 max | Jul. 18, 2017    | Oct. 11, 2017 ~ Oct. 12, 2017 | Jul. 17, 2018 | Radiation (03CH11-HY) |
| Preamplifier              | Keysight       | 83017A         | MY53270080       | 1GHz~26.5GHz                   | Nov. 10, 2016    | Oct. 11, 2017 ~ Oct. 12, 2017 | Nov. 09, 2017 | Radiation (03CH11-HY) |
| Spectrum Analyzer         | Keysight       | N9010A         | MY54200485       | 10Hz ~ 44GHz                   | Oct. 17, 2016    | Oct. 11, 2017 ~ Oct. 12, 2017 | Oct. 16, 2017 | Radiation (03CH11-HY) |





| Instrument       | Manufacturer    | Model No.             | Serial No.              | Characteristics               | Calibration Date | Test Date                     | Due Date      | Remark                |
|------------------|-----------------|-----------------------|-------------------------|-------------------------------|------------------|-------------------------------|---------------|-----------------------|
| Controller       | EMEC            | EM 1000               | N/A                     | Control Turn table & Ant Mast | N/A              | Oct. 11, 2017 ~ Oct. 12, 2017 | N/A           | Radiation (03CH11-HY) |
| Antenna Mast     | EMEC            | AM-BS-450 0-B         | N/A                     | 1~4m                          | N/A              | Oct. 11, 2017 ~ Oct. 12, 2017 | N/A           | Radiation (03CH11-HY) |
| Turn Table       | EMEC            | TT 2000               | N/A                     | 0~360 Degree                  | N/A              | Oct. 11, 2017 ~ Oct. 12, 2017 | N/A           | Radiation (03CH11-HY) |
| Hygrometer       | TECPEL          | DTN-303B              | TP140325                | N/A                           | Nov. 14, 2016    | Oct. 11, 2017 ~ Oct. 12, 2017 | Nov. 13, 2017 | Radiation (03CH11-HY) |
| Signal Generator | Rohde & Schwarz | SMF100A               | 101107                  | 100kHz~40GHz                  | May 22, 2017     | Oct. 11, 2017 ~ Oct. 12, 2017 | May 21, 2018  | Radiation (03CH11-HY) |
| RF Cable         | HUBER + SUHNER  | SUCOFLEX 104          | MY9837/4<br>MY28419/4MY | 25GHz~40GHz                   | Sep. 11, 2017    | Oct. 11, 2017 ~ Oct. 12, 2017 | Sep. 10, 2018 | Radiation (03CH11-HY) |
| RF Cable         | HUBER + SUHNER  | SUCOFLEX 104          | MY9837/4<br>MY28419/4MY | 30MHz~1GHz                    | Sep. 11, 2017    | Oct. 11, 2017 ~ Oct. 12, 2017 | Sep. 10, 2018 | Radiation (03CH11-HY) |
| RF Cable         | HUBER + SUHNER  | SUCOFLEX 104          | MY9837/4<br>MY28419/4MY | 1GHz~25GHz                    | Sep. 11, 2017    | Oct. 11, 2017 ~ Oct. 12, 2017 | Sep. 10, 2018 | Radiation (03CH11-HY) |
| Filter           | Wainwright      | WHKX12-1080-1200-150  | SN2                     | 1.2G High Pass                | Sep. 18, 2017    | Oct. 11, 2017 ~ Oct. 12, 2017 | Sep. 17, 2018 | Radiation (03CH11-HY) |
| Filter           | Wainwright      | WLKX12-2700-3000-180  | SN3                     | 2.7G High Pass                | Sep. 18, 2017    | Oct. 11, 2017 ~ Oct. 12, 2017 | Sep. 17, 2018 | Radiation (03CH11-HY) |
| Filter           | Wainwright      | WLKS1200-12SS         | SN2                     | 1.2G Low Pass                 | Sep. 18, 2017    | Oct. 11, 2017 ~ Oct. 12, 2017 | Sep. 17, 2018 | Radiation (03CH11-HY) |
| Notch Filter     | Wainwright      | WRCT/800/960-0.2/40-8 | SN11                    | GSM850                        | Jul. 06, 2017    | Oct. 11, 2017 ~ Oct. 12, 2017 | Jul. 05, 2018 | Radiation (03CH11-HY) |
| Notch Filter     | Wainwright      | WRCT1850/1910-40/8S   | SN21                    | 1900                          | Jul. 06, 2017    | Oct. 11, 2017 ~ Oct. 12, 2017 | Jul. 05, 2018 | Radiation (03CH11-HY) |
| Notch Filter     | Wainwright      | WRCT2500/2570-10/40-  | SN1 R                   | LTE Band7                     | Aug. 24, 2017    | Oct. 11, 2017 ~ Oct. 12, 2017 | Aug. 23, 2018 | Radiation (03CH11-HY) |
| Test Software    | N/A             | E3                    | 6.2009-8-24             | N/A                           | N/A              | Oct. 11, 2017 ~ Oct. 12, 2017 | N/A           | Radiation (03CH11-HY) |



## 6 Uncertainty of Evaluation

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

|   |      |
|---|------|
| Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ ) | 3.37 |
|---|------|

### Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

|   |      |
|---|------|
| Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ ) | 3.67 |
|---|------|

### Uncertainty of Radiated Emission Measurement (1 GHz ~ 40 GHz)

|   |      |
|---|------|
| Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ ) | 4.03 |
|---|------|



## Appendix A. Test Results of Conducted Test

### Conducted Output Power(Average power)

| LTE Band 2 Maximum Average Power [dBm] |         |           |        |        |        |         |
|--|---------|-----------|--------|--------|--------|---------|
| BW [MHz]                               | RB Size | RB Offset | Mod    | Lowest | Middle | Highest |
| 20                                     | 1       | 0         | QPSK   | 23.63  | 23.95  | 23.54   |
| 20                                     | 1       | 49        |        | 23.61  | 23.94  | 23.09   |
| 20                                     | 1       | 99        |        | 23.83  | 23.51  | 23.13   |
| 20                                     | 50      | 0         |        | 22.57  | 22.89  | 22.44   |
| 20                                     | 50      | 24        |        | 22.74  | 22.95  | 22.27   |
| 20                                     | 50      | 50        |        | 22.84  | 22.89  | 22.05   |
| 20                                     | 100     | 0         |        | 22.72  | 22.95  | 22.20   |
| 20                                     | 1       | 0         | 16-QAM | 22.60  | 22.88  | 22.78   |
| 20                                     | 1       | 49        |        | 22.74  | 22.96  | 22.28   |
| 20                                     | 1       | 99        |        | 22.98  | 22.77  | 22.50   |
| 20                                     | 50      | 0         |        | 21.62  | 21.90  | 21.47   |
| 20                                     | 50      | 24        |        | 21.74  | 21.95  | 21.26   |
| 20                                     | 50      | 50        |        | 21.85  | 21.88  | 21.01   |
| 20                                     | 100     | 0         |        | 21.73  | 21.91  | 21.20   |
| 20                                     | 1       | 0         | 64-QAM | 21.62  | 21.84  | 21.72   |
| 20                                     | 1       | 49        |        | 21.78  | 21.81  | 21.28   |
| 20                                     | 1       | 99        |        | 21.94  | 21.71  | 21.64   |
| 20                                     | 50      | 0         |        | 20.61  | 20.88  | 20.46   |
| 20                                     | 50      | 24        |        | 20.75  | 20.95  | 20.26   |
| 20                                     | 50      | 50        |        | 20.87  | 20.89  | 20.03   |
| 20                                     | 100     | 0         |        | 20.72  | 20.92  | 20.18   |
| 15                                     | 1       | 0         | QPSK   | 23.20  | 23.68  | 23.32   |
| 15                                     | 1       | 37        |        | 23.41  | 23.85  | 23.31   |
| 15                                     | 1       | 74        |        | 23.64  | 23.60  | 23.26   |
| 15                                     | 36      | 0         |        | 22.44  | 22.82  | 22.24   |
| 15                                     | 36      | 20        |        | 22.60  | 22.97  | 22.13   |
| 15                                     | 36      | 39        |        | 22.63  | 22.84  | 22.09   |
| 15                                     | 75      | 0         |        | 22.57  | 23.00  | 22.14   |
| 15                                     | 1       | 0         | 16-QAM | 22.56  | 22.96  | 22.61   |
| 15                                     | 1       | 37        |        | 22.66  | 22.99  | 22.25   |
| 15                                     | 1       | 74        |        | 22.89  | 22.88  | 22.21   |
| 15                                     | 36      | 0         |        | 21.42  | 21.84  | 21.27   |
| 15                                     | 36      | 20        |        | 21.58  | 21.91  | 21.12   |
| 15                                     | 36      | 39        |        | 21.62  | 21.85  | 21.13   |
| 15                                     | 75      | 0         |        | 21.62  | 21.99  | 21.12   |
| 15                                     | 1       | 0         | 64-QAM | 21.55  | 21.95  | 21.57   |
| 15                                     | 1       | 37        |        | 21.66  | 21.91  | 21.23   |
| 15                                     | 1       | 74        |        | 21.91  | 21.83  | 21.00   |
| 15                                     | 36      | 0         |        | 20.46  | 20.85  | 20.29   |
| 15                                     | 36      | 20        |        | 20.62  | 20.91  | 20.12   |
| 15                                     | 36      | 39        |        | 20.62  | 20.84  | 20.13   |
| 15                                     | 75      | 0         |        | 20.60  | 20.96  | 20.10   |



| LTE Band 2 Maximum Average Power [dBm] |         |           |        |        |        |         |
|--|---------|-----------|--------|--------|--------|---------|
| BW [MHz]                               | RB Size | RB Offset | Mod    | Lowest | Middle | Highest |
| 10                                     | 1       | 0         | QPSK   | 23.32  | 23.75  | 23.13   |
| 10                                     | 1       | 25        |        | 23.28  | 23.88  | 22.91   |
| 10                                     | 1       | 49        |        | 23.43  | 23.81  | 22.98   |
| 10                                     | 25      | 0         |        | 22.32  | 22.91  | 22.15   |
| 10                                     | 25      | 12        |        | 22.39  | 22.98  | 22.01   |
| 10                                     | 25      | 25        |        | 22.45  | 22.84  | 22.03   |
| 10                                     | 50      | 0         |        | 22.39  | 22.96  | 22.01   |
| 10                                     | 1       | 0         | 16-QAM | 22.48  | 22.98  | 22.33   |
| 10                                     | 1       | 25        |        | 22.47  | 22.91  | 22.13   |
| 10                                     | 1       | 49        |        | 22.64  | 23.00  | 22.02   |
| 10                                     | 25      | 0         |        | 21.31  | 21.90  | 21.11   |
| 10                                     | 25      | 12        |        | 21.37  | 21.96  | 21.00   |
| 10                                     | 25      | 25        |        | 21.40  | 21.81  | 21.03   |
| 10                                     | 50      | 0         |        | 21.36  | 21.96  | 21.01   |
| 10                                     | 1       | 0         | 64-QAM | 21.48  | 21.96  | 21.27   |
| 10                                     | 1       | 25        |        | 21.46  | 21.92  | 21.10   |
| 10                                     | 1       | 49        |        | 21.56  | 21.99  | 21.08   |
| 10                                     | 25      | 0         |        | 20.32  | 20.90  | 20.14   |
| 10                                     | 25      | 12        |        | 20.37  | 20.97  | 19.99   |
| 10                                     | 25      | 25        |        | 20.40  | 20.85  | 20.07   |
| 10                                     | 50      | 0         |        | 20.38  | 20.97  | 20.02   |
| 5                                      | 1       | 0         | QPSK   | 23.30  | 23.87  | 23.38   |
| 5                                      | 1       | 12        |        | 23.24  | 23.93  | 23.21   |
| 5                                      | 1       | 24        |        | 23.29  | 23.82  | 23.17   |
| 5                                      | 12      | 0         |        | 22.28  | 22.87  | 22.27   |
| 5                                      | 12      | 7         |        | 22.28  | 22.96  | 22.29   |
| 5                                      | 12      | 13        |        | 22.34  | 22.91  | 22.25   |
| 5                                      | 25      | 0         |        | 22.26  | 22.96  | 22.28   |
| 5                                      | 1       | 0         | 16-QAM | 22.40  | 22.97  | 22.55   |
| 5                                      | 1       | 12        |        | 22.40  | 22.95  | 22.41   |
| 5                                      | 1       | 24        |        | 22.43  | 22.91  | 22.32   |
| 5                                      | 12      | 0         |        | 21.27  | 21.88  | 21.26   |
| 5                                      | 12      | 7         |        | 21.31  | 22.00  | 21.29   |
| 5                                      | 12      | 13        |        | 21.34  | 21.95  | 21.25   |
| 5                                      | 25      | 0         |        | 21.26  | 21.96  | 21.25   |
| 5                                      | 1       | 0         | 64-QAM | 21.44  | 21.98  | 21.53   |
| 5                                      | 1       | 12        |        | 21.34  | 21.91  | 21.38   |
| 5                                      | 1       | 24        |        | 21.49  | 21.97  | 21.38   |
| 5                                      | 12      | 0         |        | 20.31  | 20.90  | 20.31   |
| 5                                      | 12      | 7         |        | 20.33  | 20.91  | 20.31   |
| 5                                      | 12      | 13        |        | 20.38  | 20.96  | 20.27   |
| 5                                      | 25      | 0         |        | 20.24  | 20.95  | 20.23   |



| LTE Band 2 Maximum Average Power [dBm] |         |           |        |        |        |         |
|--|---------|-----------|--------|--------|--------|---------|
| BW [MHz]                               | RB Size | RB Offset | Mod    | Lowest | Middle | Highest |
| 3                                      | 1       | 0         | QPSK   | 23.09  | 23.82  | 23.17   |
| 3                                      | 1       | 8         |        | 23.04  | 23.90  | 23.13   |
| 3                                      | 1       | 14        |        | 23.03  | 23.88  | 23.07   |
| 3                                      | 8       | 0         |        | 22.16  | 22.92  | 22.26   |
| 3                                      | 8       | 4         |        | 22.28  | 22.96  | 22.29   |
| 3                                      | 8       | 7         |        | 22.24  | 22.90  | 22.26   |
| 3                                      | 15      | 0         |        | 22.24  | 22.91  | 22.22   |
| 3                                      | 1       | 0         | 16-QAM | 22.37  | 23.00  | 22.34   |
| 3                                      | 1       | 8         |        | 22.36  | 22.91  | 22.31   |
| 3                                      | 1       | 14        |        | 22.29  | 22.98  | 22.24   |
| 3                                      | 8       | 0         |        | 21.30  | 21.99  | 21.28   |
| 3                                      | 8       | 4         |        | 21.29  | 21.99  | 21.28   |
| 3                                      | 8       | 7         |        | 21.25  | 21.96  | 21.28   |
| 3                                      | 15      | 0         |        | 21.25  | 21.96  | 21.27   |
| 3                                      | 1       | 0         | 64-QAM | 21.35  | 22.00  | 21.35   |
| 3                                      | 1       | 8         |        | 21.37  | 21.98  | 21.30   |
| 3                                      | 1       | 14        |        | 21.31  | 21.96  | 21.31   |
| 3                                      | 8       | 0         |        | 20.29  | 20.96  | 20.26   |
| 3                                      | 8       | 4         |        | 20.28  | 20.97  | 20.30   |
| 3                                      | 8       | 7         |        | 20.26  | 20.95  | 20.28   |
| 3                                      | 15      | 0         |        | 20.26  | 20.94  | 20.24   |
| 1.4                                    | 1       | 0         | QPSK   | 23.11  | 23.81  | 23.08   |
| 1.4                                    | 1       | 3         |        | 23.16  | 23.84  | 23.06   |
| 1.4                                    | 1       | 5         |        | 23.14  | 23.80  | 22.92   |
| 1.4                                    | 3       | 0         |        | 23.19  | 23.89  | 23.10   |
| 1.4                                    | 3       | 1         |        | 23.20  | 23.94  | 23.08   |
| 1.4                                    | 3       | 3         |        | 23.15  | 23.90  | 22.95   |
| 1.4                                    | 6       | 0         |        | 22.18  | 22.84  | 22.14   |
| 1.4                                    | 1       | 0         | 16-QAM | 22.32  | 23.00  | 22.25   |
| 1.4                                    | 1       | 3         |        | 22.38  | 22.97  | 22.28   |
| 1.4                                    | 1       | 5         |        | 22.29  | 22.91  | 22.20   |
| 1.4                                    | 3       | 0         |        | 22.16  | 22.85  | 22.12   |
| 1.4                                    | 3       | 1         |        | 22.22  | 22.89  | 22.18   |
| 1.4                                    | 3       | 3         |        | 22.16  | 22.84  | 22.10   |
| 1.4                                    | 6       | 0         |        | 21.25  | 21.93  | 21.23   |
| 1.4                                    | 1       | 0         | 64-QAM | 21.36  | 21.95  | 21.31   |
| 1.4                                    | 1       | 3         |        | 21.40  | 21.98  | 21.35   |
| 1.4                                    | 1       | 5         |        | 21.31  | 21.92  | 21.35   |
| 1.4                                    | 3       | 0         |        | 21.28  | 21.98  | 21.23   |
| 1.4                                    | 3       | 1         |        | 21.31  | 21.93  | 21.28   |
| 1.4                                    | 3       | 3         |        | 21.26  | 21.98  | 21.24   |
| 1.4                                    | 6       | 0         |        | 20.18  | 20.86  | 20.15   |



| LTE Band 5 Maximum Average Power [dBm] |         |           |        |        |        |         |
|--|---------|-----------|--------|--------|--------|---------|
| BW [MHz]                               | RB Size | RB Offset | Mod    | Lowest | Middle | Highest |
| 10                                     | 1       | 0         | QPSK   | 24.26  | 24.18  | 24.19   |
| 10                                     | 1       | 25        |        | 24.15  | 24.10  | 24.22   |
| 10                                     | 1       | 49        |        | 24.12  | 24.14  | 24.21   |
| 10                                     | 25      | 0         |        | 23.26  | 23.19  | 23.31   |
| 10                                     | 25      | 12        |        | 23.26  | 23.15  | 23.29   |
| 10                                     | 25      | 25        |        | 23.18  | 23.20  | 23.35   |
| 10                                     | 50      | 0         |        | 23.23  | 23.13  | 23.27   |
| 10                                     | 1       | 0         | 16-QAM | 23.46  | 23.40  | 23.39   |
| 10                                     | 1       | 25        |        | 23.42  | 23.40  | 23.38   |
| 10                                     | 1       | 49        |        | 23.37  | 23.33  | 23.35   |
| 10                                     | 25      | 0         |        | 22.25  | 22.14  | 22.29   |
| 10                                     | 25      | 12        |        | 22.25  | 22.17  | 22.30   |
| 10                                     | 25      | 25        |        | 22.18  | 22.17  | 22.33   |
| 10                                     | 50      | 0         |        | 22.23  | 22.15  | 22.25   |
| 10                                     | 1       | 0         | 64-QAM | 22.46  | 22.39  | 22.36   |
| 10                                     | 1       | 25        |        | 22.46  | 22.33  | 22.35   |
| 10                                     | 1       | 49        |        | 22.35  | 22.34  | 22.40   |
| 10                                     | 25      | 0         |        | 21.23  | 21.15  | 21.26   |
| 10                                     | 25      | 12        |        | 21.25  | 21.14  | 21.30   |
| 10                                     | 25      | 25        |        | 21.16  | 21.17  | 21.33   |
| 10                                     | 50      | 0         |        | 21.22  | 21.13  | 21.29   |
| 5                                      | 1       | 0         | QPSK   | 24.12  | 23.98  | 24.06   |
| 5                                      | 1       | 12        |        | 24.09  | 23.96  | 24.04   |
| 5                                      | 1       | 24        |        | 24.03  | 24.02  | 24.12   |
| 5                                      | 12      | 0         |        | 23.11  | 22.98  | 23.08   |
| 5                                      | 12      | 7         |        | 23.12  | 22.98  | 23.19   |
| 5                                      | 12      | 13        |        | 23.10  | 23.06  | 23.15   |
| 5                                      | 25      | 0         |        | 23.12  | 22.99  | 23.17   |
| 5                                      | 1       | 0         | 16-QAM | 23.39  | 23.26  | 23.27   |
| 5                                      | 1       | 12        |        | 23.31  | 23.26  | 23.31   |
| 5                                      | 1       | 24        |        | 23.31  | 23.30  | 23.27   |
| 5                                      | 12      | 0         |        | 22.12  | 21.98  | 22.09   |
| 5                                      | 12      | 7         |        | 22.12  | 22.03  | 22.17   |
| 5                                      | 12      | 13        |        | 22.08  | 22.08  | 22.16   |
| 5                                      | 25      | 0         |        | 22.08  | 21.95  | 22.15   |
| 5                                      | 1       | 0         | 64-QAM | 22.27  | 22.22  | 22.21   |
| 5                                      | 1       | 12        |        | 22.23  | 22.09  | 22.30   |
| 5                                      | 1       | 24        |        | 22.19  | 22.18  | 22.29   |
| 5                                      | 12      | 0         |        | 21.13  | 21.02  | 21.11   |
| 5                                      | 12      | 7         |        | 21.12  | 20.99  | 21.22   |
| 5                                      | 12      | 13        |        | 21.09  | 21.06  | 21.09   |
| 5                                      | 25      | 0         |        | 21.05  | 20.95  | 21.12   |



| LTE Band 5 Maximum Average Power [dBm] |         |           |        |        |        |         |
|--|---------|-----------|--------|--------|--------|---------|
| BW [MHz]                               | RB Size | RB Offset | Mod    | Lowest | Middle | Highest |
| 3                                      | 1       | 0         | QPSK   | 24.06  | 23.95  | 24.11   |
| 3                                      | 1       | 8         |        | 24.05  | 23.92  | 24.10   |
| 3                                      | 1       | 14        |        | 24.02  | 23.98  | 24.07   |
| 3                                      | 8       | 0         |        | 23.11  | 22.99  | 23.18   |
| 3                                      | 8       | 4         |        | 23.12  | 23.00  | 23.20   |
| 3                                      | 8       | 7         |        | 23.08  | 22.94  | 23.16   |
| 3                                      | 15      | 0         |        | 23.10  | 22.98  | 23.15   |
| 3                                      | 1       | 0         | 16-QAM | 23.34  | 23.28  | 23.29   |
| 3                                      | 1       | 8         |        | 23.35  | 23.25  | 23.28   |
| 3                                      | 1       | 14        |        | 23.29  | 23.32  | 23.24   |
| 3                                      | 8       | 0         |        | 22.15  | 22.03  | 22.21   |
| 3                                      | 8       | 4         |        | 22.16  | 22.05  | 22.22   |
| 3                                      | 8       | 7         |        | 22.12  | 22.00  | 22.20   |
| 3                                      | 15      | 0         |        | 22.12  | 22.00  | 22.17   |
| 3                                      | 1       | 0         | 64-QAM | 22.21  | 22.14  | 22.31   |
| 3                                      | 1       | 8         |        | 22.23  | 22.14  | 22.31   |
| 3                                      | 1       | 14        |        | 22.21  | 22.19  | 22.27   |
| 3                                      | 8       | 0         |        | 21.10  | 20.98  | 21.18   |
| 3                                      | 8       | 4         |        | 21.15  | 21.00  | 21.20   |
| 3                                      | 8       | 7         |        | 21.10  | 20.95  | 21.16   |
| 3                                      | 15      | 0         |        | 21.08  | 20.94  | 21.16   |
| 1.4                                    | 1       | 0         | QPSK   | 23.98  | 23.85  | 23.96   |
| 1.4                                    | 1       | 3         |        | 24.01  | 23.91  | 24.06   |
| 1.4                                    | 1       | 5         |        | 23.96  | 23.84  | 24.00   |
| 1.4                                    | 3       | 0         |        | 24.06  | 23.93  | 24.08   |
| 1.4                                    | 3       | 1         |        | 24.09  | 23.97  | 24.12   |
| 1.4                                    | 3       | 3         |        | 24.05  | 23.92  | 24.11   |
| 1.4                                    | 6       | 0         |        | 23.04  | 22.87  | 23.07   |
| 1.4                                    | 1       | 0         | 16-QAM | 23.28  | 23.18  | 23.20   |
| 1.4                                    | 1       | 3         |        | 23.32  | 23.29  | 23.28   |
| 1.4                                    | 1       | 5         |        | 23.26  | 23.18  | 23.19   |
| 1.4                                    | 3       | 0         |        | 23.05  | 22.93  | 23.05   |
| 1.4                                    | 3       | 1         |        | 23.10  | 22.96  | 23.11   |
| 1.4                                    | 3       | 3         |        | 23.03  | 22.91  | 23.06   |
| 1.4                                    | 6       | 0         |        | 22.10  | 21.96  | 22.13   |
| 1.4                                    | 1       | 0         | 64-QAM | 22.15  | 22.05  | 22.24   |
| 1.4                                    | 1       | 3         |        | 22.21  | 22.00  | 22.26   |
| 1.4                                    | 1       | 5         |        | 22.17  | 21.99  | 22.21   |
| 1.4                                    | 3       | 0         |        | 22.16  | 22.05  | 22.16   |
| 1.4                                    | 3       | 1         |        | 22.21  | 22.08  | 22.21   |
| 1.4                                    | 3       | 3         |        | 22.17  | 22.04  | 22.17   |
| 1.4                                    | 6       | 0         |        | 21.04  | 20.88  | 21.05   |



| LTE Band 7 Maximum Average Power [dBm] |         |           |        |        |        |         |
|--|---------|-----------|--------|--------|--------|---------|
| BW [MHz]                               | RB Size | RB Offset | Mod    | Lowest | Middle | Highest |
| 20                                     | 1       | 0         | QPSK   | 23.93  | 23.88  | 23.63   |
| 20                                     | 1       | 49        |        | 23.90  | 23.91  | 23.81   |
| 20                                     | 1       | 99        |        | 23.86  | 23.92  | 23.76   |
| 20                                     | 50      | 0         |        | 22.97  | 22.90  | 22.79   |
| 20                                     | 50      | 24        |        | 22.92  | 22.98  | 22.83   |
| 20                                     | 50      | 50        |        | 22.96  | 22.99  | 22.86   |
| 20                                     | 100     | 0         |        | 22.93  | 22.95  | 22.81   |
| 20                                     | 1       | 0         | 16-QAM | 22.90  | 22.94  | 22.92   |
| 20                                     | 1       | 49        |        | 22.96  | 22.92  | 22.94   |
| 20                                     | 1       | 99        |        | 22.92  | 22.90  | 22.99   |
| 20                                     | 50      | 0         |        | 21.99  | 21.92  | 21.77   |
| 20                                     | 50      | 24        |        | 21.94  | 22.00  | 21.83   |
| 20                                     | 50      | 50        |        | 21.94  | 21.99  | 21.84   |
| 20                                     | 100     | 0         |        | 21.89  | 21.95  | 21.81   |
| 20                                     | 1       | 0         | 64-QAM | 21.95  | 21.93  | 21.84   |
| 20                                     | 1       | 49        |        | 21.91  | 21.92  | 21.91   |
| 20                                     | 1       | 99        |        | 21.96  | 21.97  | 21.99   |
| 20                                     | 50      | 0         |        | 20.98  | 20.92  | 20.77   |
| 20                                     | 50      | 24        |        | 20.97  | 20.99  | 20.82   |
| 20                                     | 50      | 50        |        | 20.94  | 21.00  | 20.86   |
| 20                                     | 100     | 0         |        | 20.93  | 20.96  | 20.81   |
| 15                                     | 1       | 0         | QPSK   | 23.65  | 23.83  | 23.68   |
| 15                                     | 1       | 37        |        | 23.76  | 23.92  | 23.73   |
| 15                                     | 1       | 74        |        | 23.63  | 23.92  | 23.75   |
| 15                                     | 36      | 0         |        | 22.76  | 22.91  | 22.79   |
| 15                                     | 36      | 20        |        | 22.81  | 22.91  | 22.86   |
| 15                                     | 36      | 39        |        | 22.71  | 23.00  | 22.85   |
| 15                                     | 75      | 0         |        | 22.77  | 22.95  | 22.81   |
| 15                                     | 1       | 0         | 16-QAM | 22.93  | 22.90  | 22.99   |
| 15                                     | 1       | 37        |        | 22.99  | 22.94  | 22.92   |
| 15                                     | 1       | 74        |        | 22.95  | 22.92  | 22.91   |
| 15                                     | 36      | 0         |        | 21.77  | 21.92  | 21.78   |
| 15                                     | 36      | 20        |        | 21.86  | 21.91  | 21.84   |
| 15                                     | 36      | 39        |        | 21.72  | 21.97  | 21.83   |
| 15                                     | 75      | 0         |        | 21.78  | 21.97  | 21.81   |
| 15                                     | 1       | 0         | 64-QAM | 21.89  | 21.93  | 21.89   |
| 15                                     | 1       | 37        |        | 21.99  | 21.93  | 21.96   |
| 15                                     | 1       | 74        |        | 21.84  | 21.91  | 21.98   |
| 15                                     | 36      | 0         |        | 20.77  | 20.93  | 20.78   |
| 15                                     | 36      | 20        |        | 20.85  | 20.98  | 20.85   |
| 15                                     | 36      | 39        |        | 20.73  | 21.00  | 20.85   |
| 15                                     | 75      | 0         |        | 20.78  | 20.94  | 20.79   |





| LTE Band 7 Maximum Average Power [dBm] |         |           |        |        |        |         |
|--|---------|-----------|--------|--------|--------|---------|
| BW [MHz]                               | RB Size | RB Offset | Mod    | Lowest | Middle | Highest |
| 10                                     | 1       | 0         | QPSK   | 23.71  | 23.88  | 23.72   |
| 10                                     | 1       | 25        |        | 23.81  | 23.91  | 23.80   |
| 10                                     | 1       | 49        |        | 23.71  | 23.90  | 23.82   |
| 10                                     | 25      | 0         |        | 22.77  | 22.93  | 22.78   |
| 10                                     | 25      | 12        |        | 22.80  | 23.00  | 22.83   |
| 10                                     | 25      | 25        |        | 22.83  | 23.00  | 22.83   |
| 10                                     | 50      | 0         |        | 22.80  | 22.95  | 22.78   |
| 10                                     | 1       | 0         | 16-QAM | 22.95  | 22.90  | 22.93   |
| 10                                     | 1       | 25        |        | 22.95  | 22.93  | 22.97   |
| 10                                     | 1       | 49        |        | 22.93  | 22.92  | 22.97   |
| 10                                     | 25      | 0         |        | 21.78  | 21.94  | 21.76   |
| 10                                     | 25      | 12        |        | 21.81  | 21.91  | 21.85   |
| 10                                     | 25      | 25        |        | 21.78  | 21.96  | 21.80   |
| 10                                     | 50      | 0         |        | 21.78  | 21.96  | 21.79   |
| 10                                     | 1       | 0         | 64-QAM | 21.87  | 21.94  | 21.86   |
| 10                                     | 1       | 25        |        | 21.96  | 21.90  | 21.95   |
| 10                                     | 1       | 49        |        | 21.81  | 21.98  | 21.91   |
| 10                                     | 25      | 0         |        | 20.78  | 20.93  | 20.77   |
| 10                                     | 25      | 12        |        | 20.85  | 20.99  | 20.83   |
| 10                                     | 25      | 25        |        | 20.80  | 20.96  | 20.80   |
| 10                                     | 50      | 0         |        | 20.80  | 20.95  | 20.80   |
| 5                                      | 1       | 0         | QPSK   | 23.78  | 23.92  | 23.73   |
| 5                                      | 1       | 12        |        | 23.80  | 23.90  | 23.76   |
| 5                                      | 1       | 24        |        | 23.80  | 23.92  | 23.75   |
| 5                                      | 12      | 0         |        | 22.77  | 22.93  | 22.75   |
| 5                                      | 12      | 7         |        | 22.87  | 22.91  | 22.82   |
| 5                                      | 12      | 13        |        | 22.81  | 23.00  | 22.81   |
| 5                                      | 25      | 0         |        | 22.82  | 22.95  | 22.81   |
| 5                                      | 1       | 0         | 16-QAM | 22.99  | 22.96  | 22.92   |
| 5                                      | 1       | 12        |        | 22.98  | 22.90  | 22.99   |
| 5                                      | 1       | 24        |        | 22.94  | 22.97  | 22.96   |
| 5                                      | 12      | 0         |        | 21.81  | 21.95  | 21.75   |
| 5                                      | 12      | 7         |        | 21.88  | 21.93  | 21.80   |
| 5                                      | 12      | 13        |        | 21.82  | 21.96  | 21.81   |
| 5                                      | 25      | 0         |        | 21.83  | 21.96  | 21.76   |
| 5                                      | 1       | 0         | 64-QAM | 21.93  | 21.98  | 21.89   |
| 5                                      | 1       | 12        |        | 21.94  | 21.98  | 21.91   |
| 5                                      | 1       | 24        |        | 21.93  | 21.90  | 21.91   |
| 5                                      | 12      | 0         |        | 20.82  | 20.97  | 20.80   |
| 5                                      | 12      | 7         |        | 20.88  | 20.92  | 20.83   |
| 5                                      | 12      | 13        |        | 20.84  | 21.00  | 20.83   |
| 5                                      | 25      | 0         |        | 20.81  | 20.95  | 20.78   |



## Appendix B. Test Results of ERP/EIRP and Radiated Test

### ERP/EIRP

| LTE Band 2 / 1.4MHz (Average) (GT - LC = 0.2 dB) |           |      |        |             |               |           |         |
|--|-----------|------|--------|-------------|---------------|-----------|---------|
| Channel  | Mode      | RB   |        | Conducted   |               | EIRP      |         |
|  |           | Size | Offset | Power (dBm) | Power (Watts) | EIRP(dBm) | EIRP(W) |
| Lowest   | QPSK      | 3    | 1      | 23.20       | 0.2089        | 23.40     | 0.2188  |
| Middle   |           | 3    | 1      | 23.94       | 0.2477        | 24.14     | 0.2594  |
| Highest  |           | 3    | 1      | 23.08       | 0.2032        | 23.28     | 0.2128  |
| Lowest   | 16QAM     | 1    | 0      | 22.32       | 0.1706        | 22.52     | 0.1786  |
| Middle   |           | 1    | 0      | 23.00       | 0.1995        | 23.20     | 0.2089  |
| Highest  |           | 1    | 0      | 22.25       | 0.1679        | 22.45     | 0.1758  |
| Lowest   | 64QAM     | 1    | 3      | 21.40       | 0.1380        | 21.60     | 0.1445  |
| Middle   |           | 1    | 3      | 21.98       | 0.1578        | 22.18     | 0.1652  |
| Highest  |           | 1    | 3      | 21.35       | 0.1365        | 21.55     | 0.1429  |
| Limit  | EIRP < 2W |      |        | Result      |               | PASS      |         |

| LTE Band 2 / 3MHz (Average) (GT - LC = 0.2 dB) |           |      |        |             |               |           |         |
|--|-----------|------|--------|-------------|---------------|-----------|---------|
| Channel  | Mode      | RB   |        | Conducted   |               | EIRP      |         |
|  |           | Size | Offset | Power (dBm) | Power (Watts) | EIRP(dBm) | EIRP(W) |
| Lowest   | QPSK      | 1    | 8      | 23.04       | 0.2014        | 23.24     | 0.2109  |
| Middle   |           | 1    | 8      | 23.90       | 0.2455        | 24.10     | 0.2570  |
| Highest  |           | 1    | 8      | 23.13       | 0.2056        | 23.33     | 0.2153  |
| Lowest   | 16QAM     | 1    | 0      | 22.37       | 0.1726        | 22.57     | 0.1807  |
| Middle   |           | 1    | 0      | 23.00       | 0.1995        | 23.20     | 0.2089  |
| Highest  |           | 1    | 0      | 22.34       | 0.1714        | 22.54     | 0.1795  |
| Lowest   | 64QAM     | 1    | 0      | 21.35       | 0.1365        | 21.55     | 0.1429  |
| Middle   |           | 1    | 0      | 22.00       | 0.1585        | 22.20     | 0.1660  |
| Highest  |           | 1    | 0      | 21.35       | 0.1365        | 21.55     | 0.1429  |
| Limit  | EIRP < 2W |      |        | Result      |               | PASS      |         |

| LTE Band 2 / 5MHz (Average) (GT - LC = 0.2 dB) |           |      |        |             |               |           |         |
|--|-----------|------|--------|-------------|---------------|-----------|---------|
| Channel  | Mode      | RB   |        | Conducted   |               | EIRP      |         |
|  |           | Size | Offset | Power (dBm) | Power (Watts) | EIRP(dBm) | EIRP(W) |
| Lowest   | QPSK      | 1    | 12     | 23.24       | 0.2109        | 23.44     | 0.2208  |
| Middle   |           | 1    | 12     | 23.93       | 0.2472        | 24.13     | 0.2588  |
| Highest  |           | 1    | 12     | 23.21       | 0.2094        | 23.41     | 0.2193  |
| Lowest   | 16QAM     | 1    | 0      | 22.40       | 0.1738        | 22.60     | 0.1820  |
| Middle   |           | 1    | 0      | 22.97       | 0.1982        | 23.17     | 0.2075  |
| Highest  |           | 1    | 0      | 22.55       | 0.1799        | 22.75     | 0.1884  |
| Lowest   | 64QAM     | 1    | 0      | 21.44       | 0.1393        | 21.64     | 0.1459  |
| Middle   |           | 1    | 0      | 21.98       | 0.1578        | 22.18     | 0.1652  |
| Highest  |           | 1    | 0      | 21.53       | 0.1422        | 21.73     | 0.1489  |
| Limit  | EIRP < 2W |      |        | Result      |               | PASS      |         |



| LTE Band 2 / 10MHz (Average) (GT - LC = 0.2 dB) |           |      |        |             |               |           |         |
|---|-----------|------|--------|-------------|---------------|-----------|---------|
| Channel   | Mode      | RB   |        | Conducted   |               | EIRP      |         |
|   |           | Size | Offset | Power (dBm) | Power (Watts) | EIRP(dBm) | EIRP(W) |
| Lowest  | QPSK      | 1    | 25     | 23.28       | 0.2128        | 23.48     | 0.2228  |
| Middle  |           | 1    | 25     | 23.88       | 0.2443        | 24.08     | 0.2559  |
| Highest   |           | 1    | 25     | 22.91       | 0.1954        | 23.11     | 0.2046  |
| Lowest  | 16QAM     | 1    | 49     | 22.64       | 0.1837        | 22.84     | 0.1923  |
| Middle  |           | 1    | 49     | 23.00       | 0.1995        | 23.20     | 0.2089  |
| Highest   |           | 1    | 49     | 22.02       | 0.1592        | 22.22     | 0.1667  |
| Lowest  | 64QAM     | 1    | 49     | 21.56       | 0.1432        | 21.76     | 0.1500  |
| Middle  |           | 1    | 49     | 21.99       | 0.1581        | 22.19     | 0.1656  |
| Highest   |           | 1    | 49     | 21.08       | 0.1282        | 21.28     | 0.1343  |
| Limit   | EIRP < 2W |      |        | Result      |               | PASS      |         |

| LTE Band 2 / 15MHz (Average) (GT - LC = 0.2 dB) |           |      |        |             |               |           |         |
|---|-----------|------|--------|-------------|---------------|-----------|---------|
| Channel   | Mode      | RB   |        | Conducted   |               | EIRP      |         |
|   |           | Size | Offset | Power (dBm) | Power (Watts) | EIRP(dBm) | EIRP(W) |
| Lowest  | QPSK      | 1    | 37     | 23.41       | 0.2193        | 23.61     | 0.2296  |
| Middle  |           | 1    | 37     | 23.85       | 0.2427        | 24.05     | 0.2541  |
| Highest   |           | 1    | 37     | 23.31       | 0.2143        | 23.51     | 0.2244  |
| Lowest  | 16QAM     | 1    | 37     | 22.66       | 0.1845        | 22.86     | 0.1932  |
| Middle  |           | 1    | 37     | 22.99       | 0.1991        | 23.19     | 0.2084  |
| Highest   |           | 1    | 37     | 22.25       | 0.1679        | 22.45     | 0.1758  |
| Lowest  | 64QAM     | 1    | 0      | 21.55       | 0.1429        | 21.75     | 0.1496  |
| Middle  |           | 1    | 0      | 21.95       | 0.1567        | 22.15     | 0.1641  |
| Highest   |           | 1    | 0      | 21.57       | 0.1435        | 21.77     | 0.1503  |
| Limit   | EIRP < 2W |      |        | Result      |               | PASS      |         |

| LTE Band 2 / 20MHz (Average) (GT - LC = 0.2 dB) |           |      |        |             |               |           |         |
|---|-----------|------|--------|-------------|---------------|-----------|---------|
| Channel   | Mode      | RB   |        | Conducted   |               | EIRP      |         |
|   |           | Size | Offset | Power (dBm) | Power (Watts) | EIRP(dBm) | EIRP(W) |
| Lowest  | QPSK      | 1    | 0      | 23.63       | 0.2307        | 23.83     | 0.2415  |
| Middle  |           | 1    | 0      | 23.95       | 0.2483        | 24.15     | 0.2600  |
| Highest   |           | 1    | 0      | 23.54       | 0.2259        | 23.74     | 0.2366  |
| Lowest  | 16QAM     | 1    | 99     | 22.98       | 0.1986        | 23.18     | 0.2080  |
| Middle  |           | 1    | 99     | 22.77       | 0.1892        | 22.97     | 0.1982  |
| Highest   |           | 1    | 99     | 22.50       | 0.1778        | 22.70     | 0.1862  |
| Lowest  | 64QAM     | 1    | 99     | 21.94       | 0.1563        | 22.14     | 0.1637  |
| Middle  |           | 1    | 99     | 21.71       | 0.1483        | 21.91     | 0.1552  |
| Highest   |           | 1    | 99     | 21.64       | 0.1459        | 21.84     | 0.1528  |
| Limit   | EIRP < 2W |      |        | Result      |               | PASS      |         |



| LTE Band 5 / 1.4MHz (Average) (GT - LC = -2.5 dB) |          |      |        |             |               |          |        |
|---|----------|------|--------|-------------|---------------|----------|--------|
| Channel   | Mode     | RB   |        | Conducted   |               | ERP      |        |
|   |          | Size | Offset | Power (dBm) | Power (Watts) | ERP(dBm) | ERP(W) |
| Lowest  | QPSK     | 3    | 1      | 24.09       | 0.2564        | 19.44    | 0.0879 |
| Middle  |          | 3    | 1      | 23.97       | 0.2495        | 19.32    | 0.0855 |
| Highest   |          | 3    | 1      | 24.12       | 0.2582        | 19.47    | 0.0885 |
| Lowest  | 16QAM    | 1    | 3      | 23.32       | 0.2148        | 18.67    | 0.0736 |
| Middle  |          | 1    | 3      | 23.29       | 0.2133        | 18.64    | 0.0731 |
| Highest   |          | 1    | 3      | 23.28       | 0.2128        | 18.63    | 0.0729 |
| Lowest  | 64QAM    | 1    | 3      | 22.21       | 0.1663        | 17.56    | 0.0570 |
| Middle  |          | 1    | 3      | 22.00       | 0.1585        | 17.35    | 0.0543 |
| Highest   |          | 1    | 3      | 22.26       | 0.1683        | 17.61    | 0.0577 |
| Limit   | ERP < 7W |      |        | Result      |               | PASS     |        |

| LTE Band 5 / 3MHz (Average) (GT - LC = -2.5 dB) |          |      |        |             |               |          |        |
|---|----------|------|--------|-------------|---------------|----------|--------|
| Channel   | Mode     | RB   |        | Conducted   |               | ERP      |        |
|   |          | Size | Offset | Power (dBm) | Power (Watts) | ERP(dBm) | ERP(W) |
| Lowest  | QPSK     | 1    | 0      | 24.06       | 0.2547        | 19.41    | 0.0873 |
| Middle  |          | 1    | 0      | 23.95       | 0.2483        | 19.30    | 0.0851 |
| Highest   |          | 1    | 0      | 24.11       | 0.2576        | 19.46    | 0.0883 |
| Lowest  | 16QAM    | 1    | 8      | 23.35       | 0.2163        | 18.70    | 0.0741 |
| Middle  |          | 1    | 8      | 23.25       | 0.2113        | 18.60    | 0.0724 |
| Highest   |          | 1    | 8      | 23.28       | 0.2128        | 18.63    | 0.0729 |
| Lowest  | 64QAM    | 1    | 0      | 22.21       | 0.1663        | 17.56    | 0.0570 |
| Middle  |          | 1    | 0      | 22.14       | 0.1637        | 17.49    | 0.0561 |
| Highest   |          | 1    | 0      | 22.31       | 0.1702        | 17.66    | 0.0583 |
| Limit   | ERP < 7W |      |        | Result      |               | PASS     |        |

| LTE Band 5 / 5MHz (Average) (GT - LC = -2.5 dB) |          |      |        |             |               |          |        |
|---|----------|------|--------|-------------|---------------|----------|--------|
| Channel   | Mode     | RB   |        | Conducted   |               | ERP      |        |
|   |          | Size | Offset | Power (dBm) | Power (Watts) | ERP(dBm) | ERP(W) |
| Lowest  | QPSK     | 1    | 0      | 24.12       | 0.2582        | 19.47    | 0.0885 |
| Middle  |          | 1    | 0      | 23.98       | 0.2500        | 19.33    | 0.0857 |
| Highest   |          | 1    | 0      | 24.06       | 0.2547        | 19.41    | 0.0873 |
| Lowest  | 16QAM    | 1    | 0      | 23.39       | 0.2183        | 18.74    | 0.0748 |
| Middle  |          | 1    | 0      | 23.26       | 0.2118        | 18.61    | 0.0726 |
| Highest   |          | 1    | 0      | 23.27       | 0.2123        | 18.62    | 0.0728 |
| Lowest  | 64QAM    | 1    | 12     | 22.23       | 0.1671        | 17.58    | 0.0573 |
| Middle  |          | 1    | 12     | 22.09       | 0.1618        | 17.44    | 0.0555 |
| Highest   |          | 1    | 12     | 22.30       | 0.1698        | 17.65    | 0.0582 |
| Limit   | ERP < 7W |      |        | Result      |               | PASS     |        |



| LTE Band 5 / 10MHz (Average) (GT - LC = -2.5 dB) |          |      |        |             |               |          |        |
|--|----------|------|--------|-------------|---------------|----------|--------|
| Channel  | Mode     | RB   |        | Conducted   |               | ERP      |        |
|  |          | Size | Offset | Power (dBm) | Power (Watts) | ERP(dBm) | ERP(W) |
| Lowest   | QPSK     | 1    | 0      | 24.26       | 0.2667        | 19.61    | 0.0914 |
| Middle   |          | 1    | 0      | 24.18       | 0.2618        | 19.53    | 0.0897 |
| Highest  |          | 1    | 0      | 24.19       | 0.2624        | 19.54    | 0.0899 |
| Lowest   | 16QAM    | 1    | 0      | 23.46       | 0.2218        | 18.81    | 0.0760 |
| Middle   |          | 1    | 0      | 23.40       | 0.2188        | 18.75    | 0.0750 |
| Highest  |          | 1    | 0      | 23.39       | 0.2183        | 18.74    | 0.0748 |
| Lowest   | 64QAM    | 1    | 0      | 22.46       | 0.1762        | 17.81    | 0.0604 |
| Middle   |          | 1    | 0      | 22.39       | 0.1734        | 17.74    | 0.0594 |
| Highest  |          | 1    | 0      | 22.36       | 0.1722        | 17.71    | 0.0590 |
| Limit  | ERP < 7W |      |        | Result      |               | PASS     |        |



| LTE Band 7 / 5MHz (Average) (GT - LC = 0.7 dB) |           |      |        |             |               |           |         |
|--|-----------|------|--------|-------------|---------------|-----------|---------|
| Channel  | Mode      | RB   |        | Conducted   |               | EIRP      |         |
|  |           | Size | Offset | Power (dBm) | Power (Watts) | EIRP(dBm) | EIRP(W) |
| Lowest   | QPSK      | 1    | 0      | 23.78       | 0.2388        | 24.48     | 0.2805  |
| Middle   |           | 1    | 0      | 23.92       | 0.2466        | 24.62     | 0.2897  |
| Highest  |           | 1    | 0      | 23.73       | 0.2360        | 24.43     | 0.2773  |
| Lowest   | 16QAM     | 1    | 0      | 22.99       | 0.1991        | 23.69     | 0.2339  |
| Middle   |           | 1    | 0      | 22.96       | 0.1977        | 23.66     | 0.2323  |
| Highest  |           | 1    | 0      | 22.92       | 0.1959        | 23.62     | 0.2301  |
| Lowest   | 64QAM     | 1    | 0      | 21.93       | 0.1560        | 22.63     | 0.1832  |
| Middle   |           | 1    | 0      | 21.98       | 0.1578        | 22.68     | 0.1854  |
| Highest  |           | 1    | 0      | 21.89       | 0.1545        | 22.59     | 0.1816  |
| Limit  | EIRP < 2W |      | Result |             | PASS          |           |         |

| LTE Band 7 / 10MHz (Average) (GT - LC = 0.7 dB) |           |      |        |             |               |           |         |
|---|-----------|------|--------|-------------|---------------|-----------|---------|
| Channel   | Mode      | RB   |        | Conducted   |               | EIRP      |         |
|   |           | Size | Offset | Power (dBm) | Power (Watts) | EIRP(dBm) | EIRP(W) |
| Lowest  | QPSK      | 1    | 25     | 23.81       | 0.2404        | 24.51     | 0.2825  |
| Middle  |           | 1    | 25     | 23.91       | 0.2460        | 24.61     | 0.2891  |
| Highest   |           | 1    | 25     | 23.80       | 0.2399        | 24.50     | 0.2818  |
| Lowest  | 16QAM     | 1    | 25     | 22.95       | 0.1972        | 23.65     | 0.2317  |
| Middle  |           | 1    | 25     | 22.93       | 0.1963        | 23.63     | 0.2307  |
| Highest   |           | 1    | 25     | 22.97       | 0.1982        | 23.67     | 0.2328  |
| Lowest  | 64QAM     | 1    | 49     | 21.81       | 0.1517        | 22.51     | 0.1782  |
| Middle  |           | 1    | 49     | 21.98       | 0.1578        | 22.68     | 0.1854  |
| Highest   |           | 1    | 49     | 21.91       | 0.1552        | 22.61     | 0.1824  |
| Limit   | EIRP < 2W |      | Result |             | PASS          |           |         |

| LTE Band 7 / 15MHz (Average) (GT - LC = 0.7 dB) |           |      |        |             |               |           |         |
|---|-----------|------|--------|-------------|---------------|-----------|---------|
| Channel   | Mode      | RB   |        | Conducted   |               | EIRP      |         |
|   |           | Size | Offset | Power (dBm) | Power (Watts) | EIRP(dBm) | EIRP(W) |
| Lowest  | QPSK      | 1    | 37     | 23.76       | 0.2377        | 24.46     | 0.2793  |
| Middle  |           | 1    | 37     | 23.92       | 0.2466        | 24.62     | 0.2897  |
| Highest   |           | 1    | 37     | 23.73       | 0.2360        | 24.43     | 0.2773  |
| Lowest  | 16QAM     | 1    | 0      | 22.93       | 0.1963        | 23.63     | 0.2307  |
| Middle  |           | 1    | 0      | 22.90       | 0.1950        | 23.60     | 0.2291  |
| Highest   |           | 1    | 0      | 22.99       | 0.1991        | 23.69     | 0.2339  |
| Lowest  | 64QAM     | 1    | 37     | 21.99       | 0.1581        | 22.69     | 0.1858  |
| Middle  |           | 1    | 37     | 21.93       | 0.1560        | 22.63     | 0.1832  |
| Highest   |           | 1    | 37     | 21.96       | 0.1570        | 22.66     | 0.1845  |
| Limit   | EIRP < 2W |      | Result |             | PASS          |           |         |



| LTE Band 7 / 20MHz (Average) (GT - LC = 0.7 dB) |           |      |        |             |               |           |         |
|---|-----------|------|--------|-------------|---------------|-----------|---------|
| Channel   | Mode      | RB   |        | Conducted   |               | EIRP      |         |
|   |           | Size | Offset | Power (dBm) | Power (Watts) | EIRP(dBm) | EIRP(W) |
| Lowest  | QPSK      | 1    | 0      | 23.93       | 0.2472        | 24.63     | 0.2904  |
| Middle  |           | 1    | 0      | 23.88       | 0.2443        | 24.58     | 0.2871  |
| Highest   |           | 1    | 0      | 23.63       | 0.2307        | 24.33     | 0.2710  |
| Lowest  | 16QAM     | 1    | 99     | 22.92       | 0.1959        | 23.62     | 0.2301  |
| Middle  |           | 1    | 99     | 22.90       | 0.1950        | 23.60     | 0.2291  |
| Highest   |           | 1    | 99     | 22.99       | 0.1991        | 23.69     | 0.2339  |
| Lowest  | 64QAM     | 1    | 99     | 21.96       | 0.1570        | 22.66     | 0.1845  |
| Middle  |           | 1    | 99     | 21.97       | 0.1574        | 22.67     | 0.1849  |
| Highest   |           | 1    | 99     | 21.99       | 0.1581        | 22.69     | 0.1858  |
| Limit   | EIRP < 2W |      |        | Result      |               | PASS      |         |



**Radiated Spurious Emission**

**LTE Band 2**

| LTE Band 2 / 1.4MHz / QPSK |                   |              |               |                   |                   |                    |                      |                       |                    |
|----------------------------|-------------------|--------------|---------------|-------------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel                    | Frequency ( MHz ) | EIRP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | SPA Reading (dBm) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Middle                     | 3759              | -58.09       | -13           | -45.09            | -75.17            | -69.9              | 0.69                 | 12.50                 | H                  |
|                            | 5640              | -47.47       | -13           | -34.47            | -68.77            | -59.6              | 0.98                 | 13.12                 | H                  |
|                            | 7517              | -51.53       | -13           | -38.53            | -76.04            | -60.8              | 1.18                 | 10.45                 | H                  |
|                            | 9399              | -44.07       | -13           | -31.07            | -73.3             | -54.1              | 1.45                 | 11.48                 | H                  |
|                            |                   |              |               |                   |                   |                    |                      |                       | H                  |
|                            |                   |              |               |                   |                   |                    |                      |                       | H                  |
|                            |                   |              |               |                   |                   |                    |                      |                       | H                  |
|                            | 3759              | -57.29       | -13           | -44.29            | -75.37            | -69.1              | 0.69                 | 12.50                 | V                  |
|                            | 5640              | -51.97       | -13           | -38.97            | -73.65            | -64.1              | 0.98                 | 13.12                 | V                  |
|                            | 7517              | -51.63       | -13           | -38.63            | -76.18            | -60.9              | 1.18                 | 10.45                 | V                  |
|                            | 9399              | -45.77       | -13           | -32.77            | -75.09            | -55.8              | 1.45                 | 11.48                 | V                  |
|                            |                   |              |               |                   |                   |                    |                      |                       | V                  |
|                            |                   |              |               |                   |                   |                    |                      |                       | V                  |
|                            |                   |              |               |                   |                   |                    |                      |                       | V                  |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.





| LTE Band 2 / 3MHz / QPSK |                   |              |               |                   |                   |                    |                      |                       |                    |
|--------------------------|-------------------|--------------|---------------|-------------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel                  | Frequency ( MHz ) | EIRP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | SPA Reading (dBm) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Middle                   | 3757              | -58.10       | -13           | -45.10            | -75.05            | -69.9              | 0.69                 | 12.50                 | H                  |
|                          | 5634              | -46.66       | -13           | -33.66            | -68.09            | -58.8              | 0.98                 | 13.12                 | H                  |
|                          | 7514              | -51.34       | -13           | -38.34            | -76.07            | -60.6              | 1.18                 | 10.44                 | H                  |
|                          | 9399              | -44.77       | -13           | -31.77            | -73.49            | -54.8              | 1.45                 | 11.48                 | H                  |
|                          |                   |              |               |                   |                   |                    |                      |                       | H                  |
|                          |                   |              |               |                   |                   |                    |                      |                       | H                  |
|                          |                   |              |               |                   |                   |                    |                      |                       | H                  |
|                          | 3757              | -56.80       | -13           | -43.80            | -74.78            | -68.6              | 0.69                 | 12.50                 | V                  |
|                          | 5634              | -51.16       | -13           | -38.16            | -72.85            | -63.3              | 0.98                 | 13.12                 | V                  |
|                          | 7514              | -51.44       | -13           | -38.44            | -76.26            | -60.7              | 1.18                 | 10.44                 | V                  |
|                          | 9399              | -45.17       | -13           | -32.17            | -74.27            | -55.2              | 1.45                 | 11.48                 | V                  |
|                          |                   |              |               |                   |                   |                    |                      |                       | V                  |
|                          |                   |              |               |                   |                   |                    |                      |                       | V                  |
|                          |                   |              |               |                   |                   |                    |                      |                       | V                  |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



| LTE Band 2 / 5MHz / QPSK |                   |              |               |                   |                   |                    |                      |                       |                    |
|--------------------------|-------------------|--------------|---------------|-------------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel                  | Frequency ( MHz ) | EIRP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | SPA Reading (dBm) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Middle                   | 3756              | -58.10       | -13           | -45.10            | -75.13            | -69.9              | 0.69                 | 12.50                 | H                  |
|                          | 5634              | -47.16       | -13           | -34.16            | -68.5             | -59.3              | 0.98                 | 13.12                 | H                  |
|                          | 7510              | -51.65       | -13           | -38.65            | -76.28            | -60.9              | 1.18                 | 10.43                 | H                  |
|                          | 9388              | -44.43       | -13           | -31.43            | -73.58            | -54.5              | 1.45                 | 11.51                 | H                  |
|                          |                   |              |               |                   |                   |                    |                      |                       | H                  |
|                          |                   |              |               |                   |                   |                    |                      |                       | H                  |
|                          |                   |              |               |                   |                   |                    |                      |                       | H                  |
|                          | 3756              | -56.90       | -13           | -43.90            | -75.05            | -68.7              | 0.69                 | 12.50                 | V                  |
|                          | 5634              | -52.66       | -13           | -39.66            | -74.3             | -64.8              | 0.98                 | 13.12                 | V                  |
|                          | 7510              | -51.55       | -13           | -38.55            | -76.44            | -60.8              | 1.18                 | 10.43                 | V                  |
|                          | 9388              | -45.63       | -13           | -32.63            | -74.63            | -55.7              | 1.45                 | 11.51                 | V                  |
|                          |                   |              |               |                   |                   |                    |                      |                       | V                  |
|                          |                   |              |               |                   |                   |                    |                      |                       | V                  |
|                          |                   |              |               |                   |                   |                    |                      |                       | V                  |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



| LTE Band 2 / 10MHz / QPSK |                   |              |               |                   |                   |                    |                      |                       |                    |
|---------------------------|-------------------|--------------|---------------|-------------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel                   | Frequency ( MHz ) | EIRP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | SPA Reading (dBm) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Middle                    | 3750              | -58.10       | -13           | -45.10            | -74.97            | -69.9              | 0.70                 | 12.50                 | H                  |
|                           | 5628              | -46.56       | -13           | -33.56            | -68.17            | -58.7              | 0.98                 | 13.12                 | H                  |
|                           | 7500              | -51.78       | -13           | -38.78            | -76.14            | -61                | 1.18                 | 10.40                 | H                  |
|                           | 9378              | -45.10       | -13           | -32.10            | -74.11            | -55.2              | 1.44                 | 11.54                 | H                  |
|                           |                   |              |               |                   |                   |                    |                      |                       | H                  |
|                           |                   |              |               |                   |                   |                    |                      |                       | H                  |
|                           |                   |              |               |                   |                   |                    |                      |                       | H                  |
|                           | 3750              | -57.10       | -13           | -44.10            | -75.11            | -68.9              | 0.70                 | 12.50                 | V                  |
|                           | 5628              | -52.16       | -13           | -39.16            | -73.81            | -64.3              | 0.98                 | 13.12                 | V                  |
|                           | 7500              | -51.98       | -13           | -38.98            | -76.37            | -61.2              | 1.18                 | 10.40                 | V                  |
|                           | 9378              | -45.30       | -13           | -32.30            | -74.47            | -55.4              | 1.44                 | 11.54                 | V                  |
|                           |                   |              |               |                   |                   |                    |                      |                       | V                  |
|                           |                   |              |               |                   |                   |                    |                      |                       | V                  |
|                           |                   |              |               |                   |                   |                    |                      |                       | V                  |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



| LTE Band 2 / 15MHz / QPSK |                   |              |               |                   |                   |                    |                      |                       |                    |
|---------------------------|-------------------|--------------|---------------|-------------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel                   | Frequency ( MHz ) | EIRP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | SPA Reading (dBm) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Middle                    | 3744              | -57.80       | -13           | -44.80            | -74.75            | -69.6              | 0.70                 | 12.50                 | H                  |
|                           | 5622              | -46.95       | -13           | -33.95            | -68.21            | -59.1              | 0.98                 | 13.13                 | H                  |
|                           | 7490              | -52.06       | -13           | -39.06            | -76.68            | -61.3              | 1.18                 | 10.42                 | H                  |
|                           | 9367              | -45.77       | -13           | -32.77            | -74.69            | -55.9              | 1.44                 | 11.57                 | H                  |
|                           |                   |              |               |                   |                   |                    |                      |                       | H                  |
|                           |                   |              |               |                   |                   |                    |                      |                       | H                  |
|                           |                   |              |               |                   |                   |                    |                      |                       | H                  |
|                           | 3744              | -56.80       | -13           | -43.80            | -75.06            | -68.6              | 0.70                 | 12.50                 | V                  |
|                           | 5622              | -51.95       | -13           | -38.95            | -73.35            | -64.1              | 0.98                 | 13.13                 | V                  |
|                           | 7490              | -51.86       | -13           | -38.86            | -76.58            | -61.1              | 1.18                 | 10.42                 | V                  |
|                           | 9367              | -46.07       | -13           | -33.07            | -74.95            | -56.2              | 1.44                 | 11.57                 | V                  |
|                           |                   |              |               |                   |                   |                    |                      |                       | V                  |
|                           |                   |              |               |                   |                   |                    |                      |                       | V                  |
|                           |                   |              |               |                   |                   |                    |                      |                       | V                  |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



| LTE Band 2 / 20MHz / QPSK |                   |              |               |                   |                   |                    |                      |                       |                    |
|---------------------------|-------------------|--------------|---------------|-------------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel                   | Frequency ( MHz ) | EIRP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | SPA Reading (dBm) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Middle                    | 3740              | -58.30       | -13           | -45.30            | -75.1             | -70.1              | 0.70                 | 12.50                 | H                  |
|                           | 5616              | -47.45       | -13           | -34.45            | -69.06            | -59.6              | 0.98                 | 13.13                 | H                  |
|                           | 7480              | -50.84       | -13           | -37.84            | -75.54            | -60.1              | 1.18                 | 10.44                 | H                  |
|                           | 9357              | -45.33       | -13           | -32.33            | -74.75            | -55.5              | 1.43                 | 11.60                 | H                  |
|                           |                   |              |               |                   |                   |                    |                      |                       | H                  |
|                           |                   |              |               |                   |                   |                    |                      |                       | H                  |
|                           |                   |              |               |                   |                   |                    |                      |                       | H                  |
|                           | 3740              | -57.30       | -13           | -44.30            | -75.07            | -69.1              | 0.70                 | 12.50                 | V                  |
|                           | 5616              | -52.05       | -13           | -39.05            | 73.78             | -64.2              | 0.98                 | 13.13                 | V                  |
|                           | 7480              | -51.14       | -13           | -38.14            | -75.58            | -60.4              | 1.18                 | 10.44                 | V                  |
|                           | 9357              | -46.03       | -13           | -33.03            | -75.19            | -56.2              | 1.43                 | 11.60                 | V                  |
|                           |                   |              |               |                   |                   |                    |                      |                       | V                  |
|                           |                   |              |               |                   |                   |                    |                      |                       | V                  |
|                           |                   |              |               |                   |                   |                    |                      |                       | V                  |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



**LTE Band 5**

| LTE Band 5 / 1.4MHz / QPSK |                   |             |               |                   |                   |                    |                      |                       |                    |
|----------------------------|-------------------|-------------|---------------|-------------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel                    | Frequency ( MHz ) | ERP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | SPA Reading (dBm) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Highest                    | 1696              | -57.65      | -13           | -44.65            | -67.41            | -64.7              | 0.53                 | 9.73                  | H                  |
|                            | 2543              | -60.69      | -13           | -47.69            | -74.03            | -68.7              | 0.67                 | 10.83                 | H                  |
|                            | 3390              | -58.75      | -13           | -45.75            | -74.63            | -68.1              | 0.77                 | 12.27                 | H                  |
|                            |                   |             |               |                   |                   |                    |                      |                       | H                  |
|                            |                   |             |               |                   |                   |                    |                      |                       | H                  |
|                            |                   |             |               |                   |                   |                    |                      |                       | H                  |
|                            |                   |             |               |                   |                   |                    |                      |                       | H                  |
|                            | 1696              | -58.55      | -13           | -45.55            | -68.15            | -65.6              | 0.53                 | 9.73                  | V                  |
|                            | 2543              | -60.39      | -13           | -47.39            | -74.01            | -68.4              | 0.67                 | 10.83                 | V                  |
|                            | 3390              | -58.85      | -13           | -45.85            | -74.68            | -68.2              | 0.77                 | 12.27                 | V                  |
|                            |                   |             |               |                   |                   |                    |                      |                       | V                  |
|                            |                   |             |               |                   |                   |                    |                      |                       | V                  |
|                            |                   |             |               |                   |                   |                    |                      |                       | V                  |
|                            |                   |             |               |                   |                   |                    |                      |                       | V                  |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



| LTE Band 5 / 3MHz / QPSK |                   |             |               |                   |                   |                    |                      |                       |                    |
|--------------------------|-------------------|-------------|---------------|-------------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel                  | Frequency ( MHz ) | ERP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | SPA Reading (dBm) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Highest                  | 1696              | -56.55      | -13           | -43.55            | -66.33            | -63.6              | 0.53                 | 9.73                  | H                  |
|                          | 2538              | -60.59      | -13           | -47.59            | -73.65            | -68.6              | 0.66                 | 10.82                 | H                  |
|                          | 3384              | -58.67      | -13           | -45.67            | -74.78            | -68                | 0.77                 | 12.25                 | H                  |
|                          |                   |             |               |                   |                   |                    |                      |                       | H                  |
|                          |                   |             |               |                   |                   |                    |                      |                       | H                  |
|                          |                   |             |               |                   |                   |                    |                      |                       | H                  |
|                          |                   |             |               |                   |                   |                    |                      |                       | H                  |
|                          | 1696              | -58.25      | -13           | -45.25            | -67.98            | -65.3              | 0.53                 | 9.73                  | V                  |
|                          | 2538              | -60.19      | -13           | -47.19            | -73.79            | -68.2              | 0.66                 | 10.82                 | V                  |
|                          | 3384              | -59.47      | -13           | -46.47            | -75.06            | -68.8              | 0.77                 | 12.25                 | V                  |
|                          |                   |             |               |                   |                   |                    |                      |                       | V                  |
|                          |                   |             |               |                   |                   |                    |                      |                       | V                  |
|                          |                   |             |               |                   |                   |                    |                      |                       | V                  |
|                          |                   |             |               |                   |                   |                    |                      |                       | V                  |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



| LTE Band 5 / 5MHz / QPSK |                   |             |               |                   |                   |                    |                      |                       |                    |
|--------------------------|-------------------|-------------|---------------|-------------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel                  | Frequency ( MHz ) | ERP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | SPA Reading (dBm) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Lowest                   | 1648              | -57.85      | -13           | -44.85            | -67.37            | -64.8              | 0.53                 | 9.63                  | H                  |
|                          | 2472              | -60.12      | -13           | -47.12            | -73.46            | -68.1              | 0.65                 | 10.78                 | H                  |
|                          | 3296              | -58.52      | -13           | -45.52            | -74.24            | -67.6              | 0.76                 | 11.99                 | H                  |
|                          |                   |             |               |                   |                   |                    |                      |                       | H                  |
|                          |                   |             |               |                   |                   |                    |                      |                       | H                  |
|                          |                   |             |               |                   |                   |                    |                      |                       | H                  |
|                          |                   |             |               |                   |                   |                    |                      |                       | H                  |
|                          | 1648              | -58.25      | -13           | -45.25            | -67.89            | -65.2              | 0.53                 | 9.63                  | V                  |
|                          | 2472              | -59.92      | -13           | -46.92            | -73.58            | -67.9              | 0.65                 | 10.78                 | V                  |
|                          | 3296              | -58.72      | -13           | -45.72            | -74.49            | -67.8              | 0.76                 | 11.99                 | V                  |
|                          |                   |             |               |                   |                   |                    |                      |                       | V                  |
|                          |                   |             |               |                   |                   |                    |                      |                       | V                  |
|                          |                   |             |               |                   |                   |                    |                      |                       | V                  |
|                          |                   |             |               |                   |                   |                    |                      |                       | V                  |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.





| LTE Band 5 / 10MHz / QPSK |                   |             |               |                   |                   |                    |                      |                       |                    |
|---------------------------|-------------------|-------------|---------------|-------------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel                   | Frequency ( MHz ) | ERP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | SPA Reading (dBm) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Lowest                    | 1648              | -55.25      | -13           | -42.25            | -65               | -62.2              | 0.53                 | 9.63                  | H                  |
|                           | 2472              | -60.12      | -13           | -47.12            | -73.53            | -68.1              | 0.65                 | 10.78                 | H                  |
|                           | 3296              | -59.62      | -13           | -46.62            | -74.68            | -68.7              | 0.76                 | 11.99                 | H                  |
|                           |                   |             |               |                   |                   |                    |                      |                       | H                  |
|                           |                   |             |               |                   |                   |                    |                      |                       | H                  |
|                           |                   |             |               |                   |                   |                    |                      |                       | H                  |
|                           |                   |             |               |                   |                   |                    |                      |                       | H                  |
|                           | 1648              | -56.25      | -13           | -43.25            | -65.87            | -63.2              | 0.53                 | 9.63                  | V                  |
|                           | 2472              | -59.12      | -13           | -46.12            | -72.75            | -67.1              | 0.65                 | 10.78                 | V                  |
|                           | 3296              | -59.02      | -13           | -46.02            | -74.73            | -68.1              | 0.76                 | 11.99                 | V                  |
|                           |                   |             |               |                   |                   |                    |                      |                       | V                  |
|                           |                   |             |               |                   |                   |                    |                      |                       | V                  |
|                           |                   |             |               |                   |                   |                    |                      |                       | V                  |
|                           |                   |             |               |                   |                   |                    |                      |                       | V                  |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



### LTE Band 7

| LTE Band 7 / 5MHz / QPSK |                   |              |               |                   |                   |                    |                      |                       |                    |
|--------------------------|-------------------|--------------|---------------|-------------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel                  | Frequency ( MHz ) | EIRP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | SPA Reading (dBm) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Middle                   | 5064              | -53.52       | -25           | -28.52            | -74.09            | -64.89             | 0.95                 | 12.33                 | H                  |
|                          | 7596              | -48.17       | -25           | -23.17            | -73.28            | -57.66             | 1.18                 | 10.67                 | H                  |
|                          | 10134             | -40.31       | -25           | -15.31            | -71.31            | -50.78             | 1.38                 | 11.85                 | H                  |
|                          |                   |              |               |                   |                   |                    |                      |                       | H                  |
|                          |                   |              |               |                   |                   |                    |                      |                       | H                  |
|                          |                   |              |               |                   |                   |                    |                      |                       | H                  |
|                          |                   |              |               |                   |                   |                    |                      |                       | H                  |
|                          | 5064              | -52.60       | -25           | -27.60            | -73.34            | -63.97             | 0.95                 | 12.33                 | V                  |
|                          | 7596              | -49.12       | -25           | -24.12            | -73.93            | -58.61             | 1.18                 | 10.67                 | V                  |
|                          | 10134             | -42.01       | -25           | -17.01            | -72.73            | -52.48             | 1.38                 | 11.85                 | V                  |
|                          |                   |              |               |                   |                   |                    |                      |                       | V                  |
|                          |                   |              |               |                   |                   |                    |                      |                       | V                  |
|                          |                   |              |               |                   |                   |                    |                      |                       | V                  |
|                          |                   |              |               |                   |                   |                    |                      |                       | V                  |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



| LTE Band 7 / 10MHz / QPSK |                   |              |               |                   |                   |                    |                      |                       |                    |
|---------------------------|-------------------|--------------|---------------|-------------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel                   | Frequency ( MHz ) | EIRP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | SPA Reading (dBm) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Middle                    | 5064              | -52.67       | -25           | -27.67            | -73.24            | -64.04             | 0.95                 | 12.33                 | H                  |
|                           | 7590              | -47.99       | -25           | -22.99            | -73.11            | -57.46             | 1.18                 | 10.65                 | H                  |
|                           | 10116             | -40.74       | -25           | -15.74            | -71.75            | -51.24             | 1.38                 | 11.88                 | H                  |
|                           |                   |              |               |                   |                   |                    |                      |                       | H                  |
|                           |                   |              |               |                   |                   |                    |                      |                       | H                  |
|                           |                   |              |               |                   |                   |                    |                      |                       | H                  |
|                           |                   |              |               |                   |                   |                    |                      |                       | H                  |
|                           | 5064              | -52.71       | -25           | -27.71            | -73.45            | -64.08             | 0.95                 | 12.33                 | V                  |
|                           | 7590              | -48.54       | -25           | -23.54            | -73.36            | -58.01             | 1.18                 | 10.65                 | V                  |
|                           | 10116             | -42.58       | -25           | -17.58            | -73.3             | -53.08             | 1.38                 | 11.88                 | V                  |
|                           |                   |              |               |                   |                   |                    |                      |                       | V                  |
|                           |                   |              |               |                   |                   |                    |                      |                       | V                  |
|                           |                   |              |               |                   |                   |                    |                      |                       | V                  |
|                           |                   |              |               |                   |                   |                    |                      |                       | V                  |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



| LTE Band 7 / 15MHz / QPSK |                   |              |               |                   |                   |                    |                      |                       |                    |
|---------------------------|-------------------|--------------|---------------|-------------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel                   | Frequency ( MHz ) | EIRP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | SPA Reading (dBm) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Middle                    | 5058              | -52.47       | -25           | -27.47            | -73.04            | -63.83             | 0.95                 | 12.32                 | H                  |
|                           | 7584              | -47.52       | -25           | -22.52            | -72.59            | -56.97             | 1.18                 | 10.64                 | H                  |
|                           | 10116             | -40.62       | -25           | -15.62            | -71.63            | -51.12             | 1.38                 | 11.88                 | H                  |
|                           |                   |              |               |                   |                   |                    |                      |                       | H                  |
|                           |                   |              |               |                   |                   |                    |                      |                       | H                  |
|                           |                   |              |               |                   |                   |                    |                      |                       | H                  |
|                           |                   |              |               |                   |                   |                    |                      |                       | H                  |
|                           | 5058              | -52.03       | -25           | -27.03            | -72.77            | -63.39             | 0.95                 | 12.32                 | V                  |
|                           | 7584              | -48.60       | -25           | -23.60            | -73.46            | -58.05             | 1.18                 | 10.64                 | V                  |
|                           | 10116             | -42.96       | -25           | -17.96            | -73.68            | -53.46             | 1.38                 | 11.88                 | V                  |
|                           |                   |              |               |                   |                   |                    |                      |                       | V                  |
|                           |                   |              |               |                   |                   |                    |                      |                       | V                  |
|                           |                   |              |               |                   |                   |                    |                      |                       | V                  |
|                           |                   |              |               |                   |                   |                    |                      |                       | V                  |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



| LTE Band 7 / 20MHz / QPSK |                   |              |               |                   |                   |                    |                      |                       |                    |
|---------------------------|-------------------|--------------|---------------|-------------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel                   | Frequency ( MHz ) | EIRP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | SPA Reading (dBm) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Lowest                    | 5004              | -51.78       | -25           | -26.78            | -72.26            | -63.05             | 0.94                 | 12.21                 | H                  |
|                           | 7506              | -46.20       | -25           | -21.20            | -71.07            | -55.44             | 1.18                 | 10.42                 | H                  |
|                           | 10008             | -39.32       | -25           | -14.32            | -70.37            | -50.04             | 1.37                 | 12.08                 | H                  |
|                           |                   |              |               |                   |                   |                    |                      |                       | H                  |
|                           |                   |              |               |                   |                   |                    |                      |                       | H                  |
|                           |                   |              |               |                   |                   |                    |                      |                       | H                  |
|                           |                   |              |               |                   |                   |                    |                      |                       | H                  |
|                           | 5004              | -52.23       | -25           | -27.23            | -72.89            | -63.5              | 0.94                 | 12.21                 | V                  |
|                           | 7506              | -46.07       | -25           | -21.07            | -71.08            | -55.31             | 1.18                 | 10.42                 | V                  |
|                           | 10008             | -41.57       | -25           | -16.57            | -72.29            | -52.29             | 1.37                 | 12.08                 | V                  |
|                           |                   |              |               |                   |                   |                    |                      |                       | V                  |
|                           |                   |              |               |                   |                   |                    |                      |                       | V                  |
|                           |                   |              |               |                   |                   |                    |                      |                       | V                  |
|                           |                   |              |               |                   |                   |                    |                      |                       | V                  |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



## **Appendix C. Original Report**

Please refer to Sporton report number FG762713-01B