



# FCC RF Test Report

**APPLICANT** : PAX Technology Limited  
**EQUIPMENT** : Smart Tablet  
**BRAND NAME** : PAX  
**MODEL NAME** : Aries8  
**FCC ID** : V5PAR8  
**STANDARD** : 47 CFR Part 2, 22(H), 24(E), 27(L), 27(H), 27(F)  
**CLASSIFICATION** : PCS Licensed Transmitter (PCB)

The product was installed a WWAN module during the test (Brand Name: MeiG Smart Technology Co., Ltd, Model Name: SLM757A, FCC ID: 2APJ4-SLM757A).

The product was received on Dec. 06, 2018 and completely tested on Jan. 16, 2019. We, Sporton International (Shenzhen) Inc., would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.26-2015 and shown 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 (Shenzhen) Inc., the test report shall not be reproduced except in full.

Approved by: Eric Shih / Manager



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## REVISION HISTORY

| REPORT NO. | VERSION | DESCRIPTION             | ISSUED DATE   |
|------------|---------|-------------------------|---------------|
| FG8D0615B  | Rev. 01 | Initial issue of report | Apr. 09, 2019 |
|            |         |                         |               |
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## SUMMARY OF TEST RESULT

| Report Section                                                                                                          | FCC Rule                                                                                   | Description                                                                              | Limit                               | Result | Remark                                        |
|-------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|-------------------------------------|--------|-----------------------------------------------|
| 0                                                                                                                       | §2.1046                                                                                    | Conducted Output Power                                                                   | Reporting Only                      | PASS   | -                                             |
|                                                                                                                         | §22.913(a)(5)                                                                              | Effective Radiated Power (Band 5)                                                        | ERP < 7 Watt                        | PASS   | -                                             |
|                                                                                                                         | §27.50(b)(10)<br>§27.50(c)(10)                                                             | Effective Radiated Power (Band 12) (Band 13) (Band 17)                                   | ERP < 3 Watt                        | PASS   | -                                             |
|                                                                                                                         | §24.232(c)                                                                                 | Equivalent Isotropic Radiated Power (Band 2)                                             | EIRP < 2Watt                        | PASS   | -                                             |
|                                                                                                                         | §27.50(d)(4)                                                                               | Equivalent Isotropic Radiated Power (Band 4)                                             | EIRP < 1Watt                        | PASS   | -                                             |
| -                                                                                                                       | §24.232(d)                                                                                 | Peak-to-Average Ratio                                                                    | <13 dB                              | PASS   | 1                                             |
| -                                                                                                                       | §2.1049                                                                                    | Occupied Bandwidth                                                                       | Reporting Only                      | PASS   | 1                                             |
| -                                                                                                                       | §2.1051<br>§22.917(a)<br>§24.238(a)<br>§27.53(c)(2)(4)<br>§27.53(g)<br>§27.53(h)           | Conducted Band Edge Measurement (Band 2) (Band 4) (Band 5) (Band 12) (Band 13) (Band 17) | < 43+10log <sub>10</sub> (P[Watts]) | PASS   | 1                                             |
| -                                                                                                                       | §2.1051<br>§22.917(a)<br>§24.238(a)<br>§27.53(c)(2)<br>§27.53(g)<br>§27.53(h)              | Conducted Spurious Emission (Band 2) (Band 4) (Band 5) (Band 12) (Band 13) (Band 17)     | < 43+10log <sub>10</sub> (P[Watts]) | PASS   | 1                                             |
| -                                                                                                                       | §2.1055<br>§22.355                                                                         | Frequency Stability<br>Temperature & Voltage                                             | < 2.5 ppm for Part 22H              | PASS   | 1                                             |
|                                                                                                                         | §2.1055<br>§24.235<br>§27.54                                                               |                                                                                          | Within Authorized Band              |        |                                               |
| 4.4                                                                                                                     | §2.1053<br>§22.917(a)<br>§24.238(a)<br>§27.53(c)(2)<br>§27.53(f)<br>§27.53(g)<br>§27.53(h) | Radiated Spurious Emission (Band 2) (Band 4) (Band 5) (Band 12) (Band 13) (Band 17)      | < 43+10log <sub>10</sub> (P[Watts]) | PASS   | Under limit<br>19.34 dB at<br>5638.380<br>MHz |
| <b>Remark 1:</b> Test items are performed on module RF report which can be referred to Sporton report number FG891203B. |                                                                                            |                                                                                          |                                     |        |                                               |



# 1 General Description

## 1.1 Applicant

**PAX Technology Limited**

Room 2416, 24/F., Sun Hung Kai Centre, 30 Harbour Road, Wanchai, Hong Kong

## 1.2 Manufacturer

**PAX Computer Technology (Shenzhen) Co., Ltd.**

4/F, No.3 Building, Software Park, Second Central Science-Tech Road, High-Tech industrial Park, Shenzhen, Guangdong, P.R.C

## 1.3 Product Feature of Equipment Under Test

| Product Feature                 |                                                                                                                                                                               |
|---------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Equipment                       | Smart Tablet                                                                                                                                                                  |
| Brand Name                      | PAX                                                                                                                                                                           |
| Model Name                      | Aries8                                                                                                                                                                        |
| FCC ID                          | V5PAR8                                                                                                                                                                        |
| EUT supports Radios application | WCDMA/HSPA/DC-HSDPA/<br>HSPA+(16QAM uplink is not supported)/LTE<br>WLAN 2.4GHz 802.11b/g/n HT20/HT40<br>WLAN 5GHz 802.11a/n HT20/HT40<br>Bluetooth BR / EDR / LE<br>NFC/GNSS |
| IMEI Code                       | Radiation: 868621028940975/868621028940983                                                                                                                                    |
| HW Version                      | N/A                                                                                                                                                                           |
| SW Version                      | N/A                                                                                                                                                                           |
| EUT Stage                       | Production Unit                                                                                                                                                               |

**Remark:** The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

## 1.4 Product Specification of Equipment Under Test

| Standards-related Product Specification |                                                                                                                                                                                                                                                                               |
|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Tx Frequency</b>                     | LTE Band 2 : 1850.7 MHz ~ 1909.3 MHz<br>LTE Band 4 : 1710.7 MHz ~ 1754.3 MHz<br>LTE Band 5 : 824.7 MHz ~ 848.3 MHz<br>LTE Band 12 : 699.7 MHz ~ 715.3 MHz<br>LTE Band 13 : 779.5 MHz ~ 784.5 MHz<br>LTE Band 17 : 706.5 MHz ~ 713.5 MHz                                       |
| <b>Rx Frequency</b>                     | LTE Band 2 : 1930.7 MHz ~ 1989.3 MHz<br>LTE Band 4 : 2110.7 MHz ~ 2154.3 MHz<br>LTE Band 5 : 869.7 MHz ~ 893.3 MHz<br>LTE Band 12 : 729.7 MHz ~ 745.3 MHz<br>LTE Band 13 : 748.5 MHz ~ 753.5 MHz<br>LTE Band 17 : 736.5 MHz ~ 743.5 MHz                                       |
| <b>Bandwidth</b>                        | LTE Band 2 : 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz<br>LTE Band 4 : 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz<br>LTE Band 5 : 1.4MHz / 3MHz / 5MHz / 10MHz<br>LTE Band 12 : 1.4MHz / 3MHz / 5MHz / 10MHz<br>LTE Band 13 : 5MHz / 10MHz<br>LTE Band 17 : 5MHz / 10MHz |
| <b>Maximum Output Power to Antenna</b>  | LTE Band 2 : 21.08 dBm<br>LTE Band 4 : 22.10 dBm<br>LTE Band 5 : 21.49 dBm<br>LTE Band 12 : 22.39 dBm<br>LTE Band 13 : 21.70 dBm<br>LTE Band 17 : 22.31 dBm                                                                                                                   |
| <b>Antenna Gain</b>                     | LTE Band 2 : 2.00 dBi<br>LTE Band 4 : 2.00 dBi<br>LTE Band 5 : 1.50 dBi<br>LTE Band 12 : 1.50 dBi<br>LTE Band 13 : 1.50 dBi<br>LTE Band 17 : 1.50 dBi                                                                                                                         |
| <b>Type of Modulation</b>               | QPSK / 16QAM                                                                                                                                                                                                                                                                  |

## 1.5 Modification of EUT

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



## 1.6 Maximum ERP/EIRP Power

| LTE Band 2  |                       | QPSK                         |                           |                 | 16QAM                        |                           |                 |
|-------------|-----------------------|------------------------------|---------------------------|-----------------|------------------------------|---------------------------|-----------------|
| BW (MHz)    | Frequency Range (MHz) | Emission Designator (99%OBW) | Frequency Tolerance (ppm) | Maximum EIRP(W) | Emission Designator (99%OBW) | Frequency Tolerance (ppm) | Maximum EIRP(W) |
| 1.4         | 1850.7 ~ 1909.3       | -                            | -                         | 0.1986          | -                            | -                         | 0.1531          |
| 3           | 1851.5 ~ 1908.5       | -                            | -                         | 0.1901          | -                            | -                         | 0.1435          |
| 5           | 1852.5 ~ 1907.5       | -                            | -                         | 0.1945          | -                            | -                         | 0.1455          |
| 10          | 1855.0 ~ 1905.0       | -                            | -                         | 0.1871          | -                            | -                         | 0.1416          |
| 15          | 1857.5 ~ 1902.5       | -                            | -                         | 0.1914          | -                            | -                         | 0.1552          |
| 20          | 1860.0 ~ 1900.0       | -                            | -                         | 0.2032          | -                            | -                         | 0.1445          |
| LTE Band 4  |                       | QPSK                         |                           |                 | 16QAM                        |                           |                 |
| BW (MHz)    | Frequency Range (MHz) | Emission Designator (99%OBW) | Frequency Tolerance (ppm) | Maximum EIRP(W) | Emission Designator (99%OBW) | Frequency Tolerance (ppm) | Maximum EIRP(W) |
| 1.4         | 1710.7 ~ 1754.3       | -                            | -                         | 0.2564          | -                            | -                         | 0.2084          |
| 3           | 1711.5 ~ 1753.5       | -                            | -                         | 0.2529          | -                            | -                         | 0.1858          |
| 5           | 1712.5 ~ 1752.5       | -                            | -                         | 0.2466          | -                            | -                         | 0.1923          |
| 10          | 1715.0 ~ 1750.0       | -                            | -                         | 0.2541          | -                            | -                         | 0.1941          |
| 15          | 1717.5 ~ 1747.5       | -                            | -                         | 0.2535          | -                            | -                         | 0.1963          |
| 20          | 1720.0 ~ 1745.0       | -                            | -                         | 0.2570          | -                            | -                         | 0.1932          |
| LTE Band 5  |                       | QPSK                         |                           |                 | 16QAM                        |                           |                 |
| BW (MHz)    | Frequency Range (MHz) | Emission Designator (99%OBW) | Frequency Tolerance (ppm) | Maximum ERP(W)  | Emission Designator (99%OBW) | Frequency Tolerance (ppm) | Maximum ERP(W)  |
| 1.4         | 824.7 ~ 848.3         | -                            | -                         | 0.1183          | -                            | -                         | 0.0977          |
| 3           | 825.5 ~ 847.5         | -                            | -                         | 0.1172          | -                            | -                         | 0.0851          |
| 5           | 826.5 ~ 846.5         | -                            | -                         | 0.1211          | -                            | -                         | 0.0879          |
| 10          | 829.0 ~ 844.0         | -                            | -                         | 0.1213          | -                            | -                         | 0.0865          |
| LTE Band 12 |                       | QPSK                         |                           |                 | 16QAM                        |                           |                 |
| BW (MHz)    | Frequency Range (MHz) | Emission Designator (99%OBW) | Frequency Tolerance (ppm) | Maximum ERP(W)  | Emission Designator (99%OBW) | Frequency Tolerance (ppm) | Maximum ERP(W)  |
| 1.4         | 699.7 ~ 715.3         | -                            | -                         | 0.1222          | -                            | -                         | 0.1256          |
| 3           | 700.5 ~ 714.5         | -                            | -                         | 0.1483          | -                            | -                         | 0.1081          |
| 5           | 701.5 ~ 713.5         | -                            | -                         | 0.1489          | -                            | -                         | 0.1274          |
| 10          | 704.0 ~ 711.0         | -                            | -                         | 0.1493          | -                            | -                         | 0.1132          |



| LTE Band 13 |                       | QPSK                         |                           |                | 16QAM                        |                           |                |
|-------------|-----------------------|------------------------------|---------------------------|----------------|------------------------------|---------------------------|----------------|
| BW (MHz)    | Frequency Range (MHz) | Emission Designator (99%OBW) | Frequency Tolerance (ppm) | Maximum ERP(W) | Emission Designator (99%OBW) | Frequency Tolerance (ppm) | Maximum ERP(W) |
| 5           | 779.5 ~ 784.5         | -                            | -                         | 0.1268         | -                            | -                         | 0.0986         |
| 10          | 782.0                 | -                            | -                         | 0.1274         | -                            | -                         | 0.1062         |
| LTE Band 17 |                       | QPSK                         |                           |                | 16QAM                        |                           |                |
| BW (MHz)    | Frequency Range (MHz) | Emission Designator (99%OBW) | Frequency Tolerance (ppm) | Maximum ERP(W) | Emission Designator (99%OBW) | Frequency Tolerance (ppm) | Maximum ERP(W) |
| 5           | 706.5 ~ 713.5         | -                            | -                         | 0.1435         | -                            | -                         | 0.1033         |
| 10          | 709.0 ~ 711.0         | -                            | -                         | 0.1466         | -                            | -                         | 0.1026         |



## 1.7 Testing Location

Sporton International (Shenzhen) Inc. is accredited to ISO 17025 by National Voluntary Laboratory Accreditation Program (NVLAP code: 600156-0).

|                           |                                                                                                                                                                           |                            |                                       |
|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|---------------------------------------|
| <b>Test Site</b>          | Sporton International (Shenzhen) Inc.                                                                                                                                     |                            |                                       |
| <b>Test Site Location</b> | No. 3 Bldg the third floor of south, Shahe River west, Fengzeyuan Warehouse, Nanshan District, Shenzhen City, Guangdong Province 518055, China<br>TEL: +86-755- 3320-2398 |                            |                                       |
| <b>Test Site No.</b>      | <b>Sporton Site No.</b>                                                                                                                                                   | <b>FCC designation No.</b> | <b>FCC Test Firm Registration No.</b> |
|                           | 03CH03-SZ                                                                                                                                                                 | CN5019                     | 577730                                |

## 1.8 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(L), 27(H), 27(F)
- ANSI C63.26-2015
- FCC KDB 971168 D01 Power Meas License Digital Systems v03r01
- 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

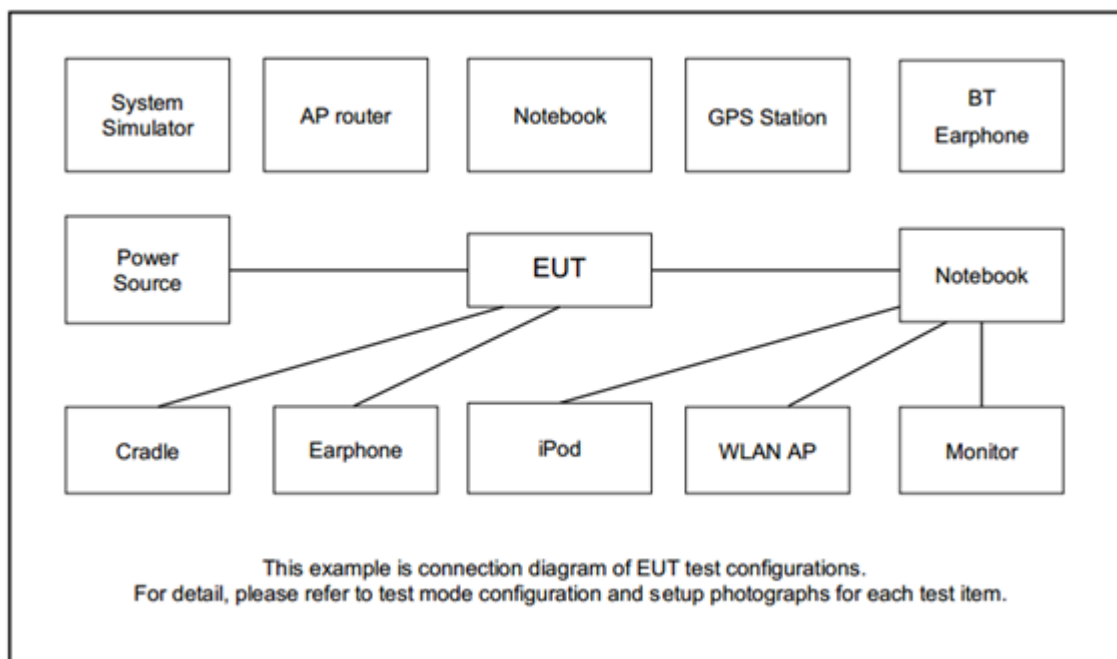
### 2.1 Test Mode

Antenna port conducted and radiated test items listed below are performed according to KDB 971168 D01 Power Meas License Digital Systems v03r01 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 |
|                            | 4                                                                                                                                                                                                                                                                                                                                                                                                                                       | 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 |
|                            | 12                                                                                                                                                                                                                                                                                                                                                                                                                                      | v               | v | v | v  | -  | -  | v          | v     |       | v    | v    | v    | v            | v | v |
|                            | 13                                                                                                                                                                                                                                                                                                                                                                                                                                      | -               | - | v |    | -  | -  | v          | v     |       | v    | v    | v    | v            | v | v |
|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                         | -               | - |   | v  | -  | -  | v          | v     |       | v    | v    | v    |              | v |   |
|                            | 17                                                                                                                                                                                                                                                                                                                                                                                                                                      | -               | - | v | v  | -  | -  | v          | v     |       | v    | v    | v    | v            | v | v |
| E.R.P / E.I.R.P            | 2                                                                                                                                                                                                                                                                                                                                                                                                                                       | v               | v | v | v  | v  | v  | v          | v     |       | v    |      |      | v            | v | v |
|                            | 4                                                                                                                                                                                                                                                                                                                                                                                                                                       | v               | v | v | v  | v  | v  | v          | v     |       | v    |      |      | v            | v | v |
|                            | 5                                                                                                                                                                                                                                                                                                                                                                                                                                       | v               | v | v | v  | -  | -  | v          | v     |       | v    |      |      | v            | v | v |
|                            | 12                                                                                                                                                                                                                                                                                                                                                                                                                                      | v               | v | v | v  | -  | -  | v          | v     |       | v    |      |      | v            | v | v |
|                            | 13                                                                                                                                                                                                                                                                                                                                                                                                                                      | -               | - | v |    | -  | -  | v          | v     |       | v    |      |      | v            | v | v |
|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                         | -               | - |   | v  | -  | -  | v          | v     |       | v    |      |      |              | v |   |
|                            | 17                                                                                                                                                                                                                                                                                                                                                                                                                                      | -               | - | v | v  | -  | -  | v          | v     |       | v    |      |      | v            | v | v |
| Radiated Spurious Emission | 2                                                                                                                                                                                                                                                                                                                                                                                                                                       | v               | v | v | v  | v  | v  | v          |       |       |      |      |      | v            | v | v |
|                            | 4                                                                                                                                                                                                                                                                                                                                                                                                                                       | v               | v | v | v  | v  | v  | v          |       |       |      |      |      | v            | v | v |
|                            | 5                                                                                                                                                                                                                                                                                                                                                                                                                                       | v               | v | v | v  | -  | -  | v          |       |       |      |      |      | v            | v | v |
|                            | 12                                                                                                                                                                                                                                                                                                                                                                                                                                      | v               | v | v | v  | -  | -  | v          |       |       |      |      |      | v            | v | v |
|                            | 13                                                                                                                                                                                                                                                                                                                                                                                                                                      | -               | - | v |    | -  | -  | v          |       |       |      |      |      | v            | v | v |
|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                         | -               | - |   | v  | -  | -  | v          |       |       |      |      |      |              | v |   |
|                            | 17                                                                                                                                                                                                                                                                                                                                                                                                                                      | -               | - | 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.   | System Simulator | Anritsu    | MT8820C   | N/A    | N/A            | Unshielded, 1.8 m |
| 2.   | Earphone         | Apple      | MC690ZP/A | N/A    | Shielded, 1.0m | N/A               |



## 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 4 Channel and Frequency List |                        |        |        |         |
|---------------------------------------|------------------------|--------|--------|---------|
| BW [MHz]                              | Channel/Frequency(MHz) | Lowest | Middle | Highest |
| 20                                    | Channel                | 20050  | 20175  | 20300   |
|                                       | Frequency              | 1720   | 1732.5 | 1745    |
| 15                                    | Channel                | 20025  | 20175  | 20325   |
|                                       | Frequency              | 1717.5 | 1732.5 | 1747.5  |
| 10                                    | Channel                | 20000  | 20175  | 20350   |
|                                       | Frequency              | 1715   | 1732.5 | 1750    |
| 5                                     | Channel                | 19975  | 20175  | 20375   |
|                                       | Frequency              | 1712.5 | 1732.5 | 1752.5  |
| 3                                     | Channel                | 19965  | 20175  | 20385   |
|                                       | Frequency              | 1711.5 | 1732.5 | 1753.5  |
| 1.4                                   | Channel                | 19957  | 20175  | 20393   |
|                                       | Frequency              | 1710.7 | 1732.5 | 1754.3  |



| 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 12 Channel and Frequency List |                        |        |        |         |
|----------------------------------------|------------------------|--------|--------|---------|
| BW [MHz]                               | Channel/Frequency(MHz) | Lowest | Middle | Highest |
| 10                                     | Channel                | 23060  | 23095  | 23130   |
|                                        | Frequency              | 704    | 707.5  | 711     |
| 5                                      | Channel                | 23035  | 23095  | 23155   |
|                                        | Frequency              | 701.5  | 707.5  | 713.5   |
| 3                                      | Channel                | 23025  | 23095  | 23165   |
|                                        | Frequency              | 700.5  | 707.5  | 714.5   |
| 1.4                                    | Channel                | 23017  | 23095  | 23173   |
|                                        | Frequency              | 699.7  | 707.5  | 715.3   |



| LTE Band 13 Channel and Frequency List |                        |        |        |         |
|----------------------------------------|------------------------|--------|--------|---------|
| BW [MHz]                               | Channel/Frequency(MHz) | Lowest | Middle | Highest |
| 10                                     | Channel                | -      | 23230  | -       |
|                                        | Frequency              | -      | 782    | -       |
| 5                                      | Channel                | 23205  | 23230  | 23255   |
|                                        | Frequency              | 779.5  | 782    | 784.5   |

| LTE Band 17 Channel and Frequency List |                        |        |        |         |
|----------------------------------------|------------------------|--------|--------|---------|
| BW [MHz]                               | Channel/Frequency(MHz) | Lowest | Middle | Highest |
| 10                                     | Channel                | 23780  | 23790  | 23800   |
|                                        | Frequency              | 709    | 710    | 711     |
| 5                                      | Channel                | 23755  | 23790  | 23825   |
|                                        | Frequency              | 706.5  | 710    | 713.5   |

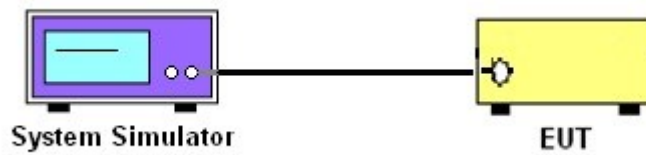
### 3 Conducted Test Items

#### 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 ERP of mobile transmitters must not exceed 3 Watts for LTE Band 12, Band 13 and Band 17.

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

The EIRP of mobile transmitters must not exceed 1 Watts for LTE Band 4.

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 testing follows ANSI C63.26 Section 5.2
2. The transmitter output port was connected to the system simulator.
3. Set EUT at maximum power through the system simulator.
4. Select lowest, middle, and highest channels for each band and different modulation.
5. Measure and record the power level from the system simulator.

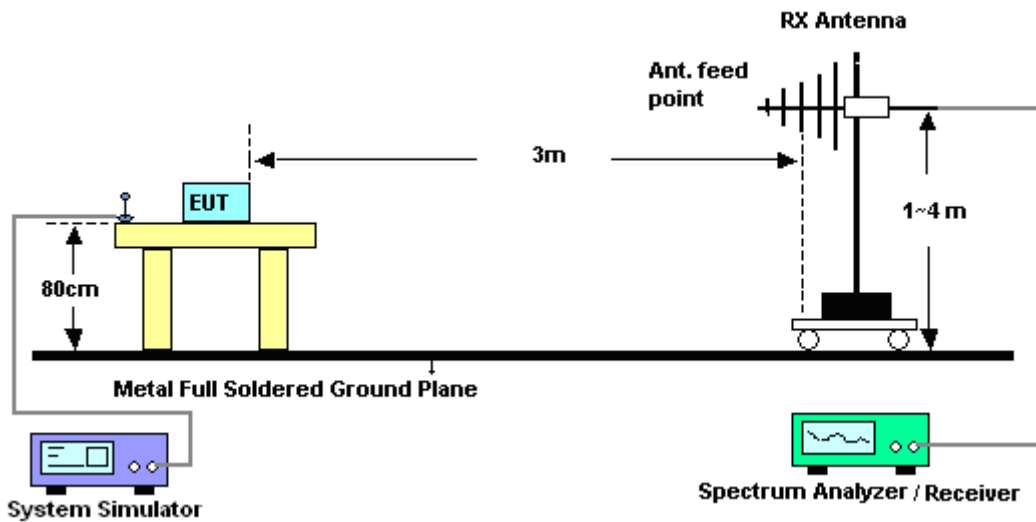
## 4 Radiated Test Items

### 4.1 Measuring Instruments

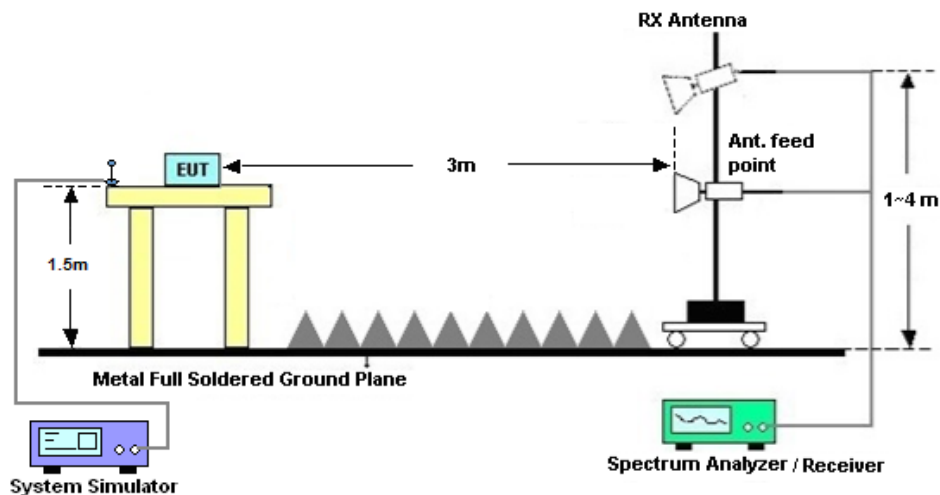
See list of measuring instruments of this test report.

### 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 C63.26. 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 LTE Band 13

For operations in the 746-758 MHz, 775-788 MHz, and 805-806 MHz bands, emissions in the band 1559-1610 MHz shall be limited to  $-70$  dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and  $-80$  dBW EIRP for discrete emissions of less than 700 Hz bandwidth.

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

### **4.4.2 Test Procedures**

1. The testing follows ANSI C63.26 Section 5.5
2. The EUT was placed on a turntable with 0.8 meter height for frequency below 1GHz and 1.5 meter height for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the receiving antenna 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 1m to 4m to search the maximum spurious emission for both horizontal and vertical polarizations.
6. During the measurement, the system simulator parameters were set to force the EUT transmitting at maximum output power.
7. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
8. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
9. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
10.  $\text{EIRP (dBm)} = \text{S.G. Power} - \text{Tx Cable Loss} + \text{Tx Antenna Gain}$
11.  $\text{ERP (dBm)} = \text{EIRP} - 2.15$
12. 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)  
 $= P(W) - [43 + 10\log(P)] \text{ (dB)}$   
 $= [30 + 10\log(P)] \text{ (dBm)} - [43 + 10\log(P)] \text{ (dB)}$   
 $= -13\text{dBm}.$



## 5 List of Measuring Equipment

| Instrument                | Manufacturer         | Model No.         | Serial No.       | Characteristics | Calibration Date | Test Date                       | Due Date      | Remark                   |
|---------------------------|----------------------|-------------------|------------------|-----------------|------------------|---------------------------------|---------------|--------------------------|
| EXA Spectrum Analyzer     | KEYSIGHT             | N9010A            | MY55150246       | 10Hz~44GHz;     | Apr. 19, 2018    | Dec. 31, 2018~<br>Jan. 16, 2019 | Apr. 18, 2019 | Radiation<br>(03CH03-SZ) |
| Bilog Antenna             | TeseQ                | CBL6112D          | 35408            | 30MHz-2GHz      | Apr. 19, 2018    | Dec. 31, 2018~<br>Jan. 16, 2019 | Apr. 18, 2019 | Radiation<br>(03CH03-SZ) |
| Double Ridge Horn Antenna | SCHWARZBECK          | BBHA9120D         | 9120D-1355       | 1GHz~18GHz      | Mar. 29, 2018    | Dec. 31, 2018~<br>Jan. 16, 2019 | Mar. 28, 2019 | Radiation<br>(03CH03-SZ) |
| Amplifier                 | Burgeon              | BPA-530           | 102210           | 0.01Hz ~3000MHz | Oct. 18, 2018    | Dec. 31, 2018~<br>Jan. 16, 2019 | Oct. 17, 2019 | Radiation<br>(03CH03-SZ) |
| HF Amplifier              | MITEQ                | TTA1840-35<br>-HG | 1871923          | 18GHz~40GHz     | Jul. 30, 2018    | Dec. 31, 2018~<br>Jan. 16, 2019 | Jul. 29, 2019 | Radiation<br>(03CH03-SZ) |
| SHF-EHF Horn              | com-power            | AH-840            | 101071           | 18Ghz-40GHz     | Mar. 30, 2018    | Dec. 31, 2018~<br>Jan. 16, 2019 | Mar. 29, 2019 | Radiation<br>(03CH03-SZ) |
| Amplifier                 | Agilent Technologies | 83017A            | MY39501302       | 500MHz~26.5GHz  | Dec. 23, 2018    | Dec. 31, 2018~<br>Jan. 16, 2019 | Dec. 22, 2019 | Radiation<br>(03CH03-SZ) |
| AC Power Source           | Chroma               | 61601             | 61601000198<br>5 | N/A             | NCR              | Dec. 31, 2018~<br>Jan. 16, 2019 | NCR           | Radiation<br>(03CH03-SZ) |
| Turn Table                | EM                   | EM1000            | N/A              | 0~360 degree    | NCR              | Dec. 31, 2018~<br>Jan. 16, 2019 | NCR           | Radiation<br>(03CH03-SZ) |
| Antenna Mast              | EM                   | EM1000            | N/A              | 1 m~4 m         | NCR              | Dec. 31, 2018~<br>Jan. 16, 2019 | NCR           | Radiation<br>(03CH03-SZ) |

NCR: No Calibration Required

## 6 Uncertainty of Evaluation

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI 63.26-2015. All the measurement uncertainty value were shown with a coverage  $K=2$  to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

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

|                                                                         |        |
|-------------------------------------------------------------------------|--------|
| Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ ) | 3.0 dB |
|-------------------------------------------------------------------------|--------|

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

|                                                                         |        |
|-------------------------------------------------------------------------|--------|
| Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ ) | 3.6 dB |
|-------------------------------------------------------------------------|--------|

### Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

|                                                                         |        |
|-------------------------------------------------------------------------|--------|
| Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ ) | 3.8 dB |
|-------------------------------------------------------------------------|--------|



## 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   | 20.78  | 20.80  | 20.62   |
| 20                                     | 1       | 49        |        | 21.01  | 21.08  | 20.98   |
| 20                                     | 1       | 99        |        | 20.63  | 20.65  | 20.60   |
| 20                                     | 50      | 0         |        | 19.79  | 19.85  | 19.60   |
| 20                                     | 50      | 24        |        | 19.78  | 19.82  | 19.59   |
| 20                                     | 50      | 50        |        | 19.61  | 19.68  | 19.53   |
| 20                                     | 100     | 0         |        | 19.68  | 19.70  | 19.55   |
| 20                                     | 1       | 0         | 16-QAM | 19.60  | 19.20  | 19.44   |
| 20                                     | 1       | 49        |        | 19.60  | 19.45  | 19.43   |
| 20                                     | 1       | 99        |        | 19.12  | 19.32  | 19.10   |
| 20                                     | 50      | 0         |        | 18.86  | 18.89  | 18.81   |
| 20                                     | 50      | 24        |        | 18.86  | 18.91  | 18.69   |
| 20                                     | 50      | 50        |        | 18.68  | 18.76  | 18.54   |
| 20                                     | 100     | 0         |        | 18.78  | 18.68  | 18.74   |
| 15                                     | 1       | 0         | QPSK   | 20.73  | 20.43  | 20.35   |
| 15                                     | 1       | 37        |        | 20.82  | 20.78  | 20.35   |
| 15                                     | 1       | 74        |        | 20.39  | 20.49  | 20.32   |
| 15                                     | 36      | 0         |        | 19.77  | 19.82  | 19.56   |
| 15                                     | 36      | 20        |        | 19.77  | 19.80  | 19.46   |
| 15                                     | 36      | 39        |        | 19.64  | 19.61  | 19.36   |
| 15                                     | 75      | 0         |        | 19.72  | 19.79  | 19.43   |
| 15                                     | 1       | 0         | 16-QAM | 19.56  | 19.41  | 19.42   |
| 15                                     | 1       | 37        |        | 19.89  | 19.91  | 19.86   |
| 15                                     | 1       | 74        |        | 19.46  | 19.41  | 19.52   |
| 15                                     | 36      | 0         |        | 18.68  | 18.74  | 18.59   |
| 15                                     | 36      | 20        |        | 18.72  | 18.82  | 18.42   |
| 15                                     | 36      | 39        |        | 18.59  | 18.64  | 18.39   |
| 15                                     | 75      | 0         |        | 18.76  | 18.85  | 18.59   |



| LTE Band 2 Maximum Average Power [dBm] |         |           |        |        |        |         |
|----------------------------------------|---------|-----------|--------|--------|--------|---------|
| BW [MHz]                               | RB Size | RB Offset | Mod    | Lowest | Middle | Highest |
| 10                                     | 1       | 0         | QPSK   | 20.55  | 20.37  | 20.28   |
| 10                                     | 1       | 25        |        | 20.72  | 20.67  | 20.52   |
| 10                                     | 1       | 49        |        | 20.37  | 20.28  | 20.22   |
| 10                                     | 25      | 0         |        | 19.90  | 19.80  | 19.40   |
| 10                                     | 25      | 12        |        | 19.74  | 19.73  | 19.44   |
| 10                                     | 25      | 25        |        | 19.63  | 19.79  | 19.51   |
| 10                                     | 50      | 0         |        | 19.79  | 19.73  | 19.35   |
| 10                                     | 1       | 0         | 16-QAM | 19.23  | 19.05  | 19.11   |
| 10                                     | 1       | 25        |        | 19.51  | 19.49  | 19.45   |
| 10                                     | 1       | 49        |        | 19.17  | 19.01  | 19.10   |
| 10                                     | 25      | 0         |        | 18.92  | 18.84  | 18.64   |
| 10                                     | 25      | 12        |        | 18.87  | 18.77  | 18.58   |
| 10                                     | 25      | 25        |        | 18.67  | 18.83  | 18.46   |
| 10                                     | 50      | 0         |        | 18.86  | 18.80  | 18.53   |
| 5                                      | 1       | 0         | QPSK   | 20.76  | 20.60  | 20.56   |
| 5                                      | 1       | 12        |        | 20.81  | 20.89  | 20.41   |
| 5                                      | 1       | 24        |        | 20.59  | 20.58  | 20.52   |
| 5                                      | 12      | 0         |        | 19.74  | 19.66  | 19.40   |
| 5                                      | 12      | 7         |        | 19.74  | 19.69  | 19.40   |
| 5                                      | 12      | 13        |        | 19.69  | 19.68  | 19.30   |
| 5                                      | 25      | 0         |        | 19.69  | 19.62  | 19.36   |
| 5                                      | 1       | 0         | 16-QAM | 19.44  | 19.22  | 19.21   |
| 5                                      | 1       | 12        |        | 19.63  | 19.62  | 19.19   |
| 5                                      | 1       | 24        |        | 19.24  | 19.51  | 19.53   |
| 5                                      | 12      | 0         |        | 18.60  | 18.63  | 18.25   |
| 5                                      | 12      | 7         |        | 18.61  | 18.58  | 18.27   |
| 5                                      | 12      | 13        |        | 18.47  | 18.59  | 18.25   |
| 5                                      | 25      | 0         |        | 18.70  | 18.54  | 18.39   |



| LTE Band 2 Maximum Average Power [dBm] |         |           |        |        |        |         |
|----------------------------------------|---------|-----------|--------|--------|--------|---------|
| BW [MHz]                               | RB Size | RB Offset | Mod    | Lowest | Middle | Highest |
| 3                                      | 1       | 0         | QPSK   | 20.74  | 20.79  | 20.33   |
| 3                                      | 1       | 8         |        | 20.69  | 20.69  | 20.41   |
| 3                                      | 1       | 14        |        | 20.57  | 20.61  | 20.39   |
| 3                                      | 8       | 0         |        | 19.22  | 19.52  | 19.41   |
| 3                                      | 8       | 4         |        | 19.29  | 19.62  | 19.38   |
| 3                                      | 8       | 7         |        | 19.30  | 19.48  | 19.42   |
| 3                                      | 15      | 0         |        | 19.76  | 19.29  | 19.35   |
| 3                                      | 1       | 0         | 16-QAM | 19.43  | 19.41  | 19.31   |
| 3                                      | 1       | 8         |        | 19.44  | 19.42  | 19.26   |
| 3                                      | 1       | 14        |        | 19.55  | 19.57  | 19.44   |
| 3                                      | 8       | 0         |        | 18.68  | 18.96  | 18.55   |
| 3                                      | 8       | 4         |        | 18.69  | 18.89  | 18.52   |
| 3                                      | 8       | 7         |        | 18.66  | 18.87  | 18.61   |
| 3                                      | 15      | 0         |        | 18.84  | 19.13  | 18.63   |
| 1.4                                    | 1       | 0         | QPSK   | 20.88  | 20.64  | 20.41   |
| 1.4                                    | 1       | 3         |        | 20.81  | 20.76  | 20.52   |
| 1.4                                    | 1       | 5         |        | 20.79  | 20.58  | 20.43   |
| 1.4                                    | 3       | 0         |        | 20.95  | 20.65  | 20.53   |
| 1.4                                    | 3       | 1         |        | 20.98  | 20.93  | 20.59   |
| 1.4                                    | 3       | 3         |        | 20.98  | 20.93  | 20.65   |
| 1.4                                    | 6       | 0         |        | 19.89  | 19.63  | 19.39   |
| 1.4                                    | 1       | 0         | 16-QAM | 18.64  | 18.60  | 18.67   |
| 1.4                                    | 1       | 3         |        | 18.65  | 18.91  | 18.92   |
| 1.4                                    | 1       | 5         |        | 18.92  | 18.91  | 18.99   |
| 1.4                                    | 3       | 0         |        | 19.71  | 19.58  | 19.42   |
| 1.4                                    | 3       | 1         |        | 19.64  | 19.74  | 19.36   |
| 1.4                                    | 3       | 3         |        | 19.72  | 19.85  | 19.46   |
| 1.4                                    | 6       | 0         |        | 18.66  | 18.90  | 18.49   |



| LTE Band 4 Maximum Average Power [dBm] |         |           |        |        |        |         |
|----------------------------------------|---------|-----------|--------|--------|--------|---------|
| BW [MHz]                               | RB Size | RB Offset | Mod    | Lowest | Middle | Highest |
| 20                                     | 1       | 0         | QPSK   | 21.90  | 21.93  | 21.86   |
| 20                                     | 1       | 49        |        | 21.95  | 22.10  | 21.93   |
| 20                                     | 1       | 99        |        | 21.93  | 21.94  | 21.91   |
| 20                                     | 50      | 0         |        | 20.80  | 21.00  | 20.59   |
| 20                                     | 50      | 24        |        | 20.79  | 20.98  | 20.56   |
| 20                                     | 50      | 50        |        | 20.78  | 20.88  | 20.55   |
| 20                                     | 100     | 0         |        | 20.96  | 20.94  | 20.80   |
| 20                                     | 1       | 0         | 16-QAM | 20.62  | 20.70  | 20.81   |
| 20                                     | 1       | 49        |        | 20.65  | 20.86  | 20.61   |
| 20                                     | 1       | 99        |        | 20.72  | 20.49  | 20.56   |
| 20                                     | 50      | 0         |        | 19.85  | 20.08  | 20.13   |
| 20                                     | 50      | 24        |        | 19.91  | 20.09  | 20.13   |
| 20                                     | 50      | 50        |        | 20.03  | 20.00  | 20.14   |
| 20                                     | 100     | 0         |        | 19.86  | 20.00  | 20.04   |
| 15                                     | 1       | 0         | QPSK   | 21.79  | 21.86  | 21.95   |
| 15                                     | 1       | 37        |        | 21.82  | 22.04  | 21.88   |
| 15                                     | 1       | 74        |        | 21.85  | 21.83  | 21.95   |
| 15                                     | 36      | 0         |        | 20.74  | 21.10  | 20.94   |
| 15                                     | 36      | 20        |        | 20.76  | 20.94  | 20.69   |
| 15                                     | 36      | 39        |        | 20.87  | 21.08  | 20.81   |
| 15                                     | 75      | 0         |        | 20.74  | 21.07  | 20.69   |
| 15                                     | 1       | 0         | 16-QAM | 20.45  | 20.69  | 20.74   |
| 15                                     | 1       | 37        |        | 20.48  | 20.87  | 20.93   |
| 15                                     | 1       | 74        |        | 20.75  | 20.69  | 20.83   |
| 15                                     | 36      | 0         |        | 19.70  | 19.86  | 20.02   |
| 15                                     | 36      | 20        |        | 19.72  | 19.74  | 20.13   |
| 15                                     | 36      | 39        |        | 19.94  | 19.84  | 19.94   |
| 15                                     | 75      | 0         |        | 19.94  | 19.82  | 20.02   |



| LTE Band 4 Maximum Average Power [dBm] |         |           |        |        |        |         |
|----------------------------------------|---------|-----------|--------|--------|--------|---------|
| BW [MHz]                               | RB Size | RB Offset | Mod    | Lowest | Middle | Highest |
| 10                                     | 1       | 0         | QPSK   | 21.70  | 22.00  | 21.56   |
| 10                                     | 1       | 25        |        | 21.73  | 22.05  | 22.03   |
| 10                                     | 1       | 49        |        | 21.81  | 21.77  | 22.02   |
| 10                                     | 25      | 0         |        | 20.71  | 21.07  | 20.94   |
| 10                                     | 25      | 12        |        | 20.83  | 20.95  | 21.02   |
| 10                                     | 25      | 25        |        | 20.77  | 20.94  | 20.89   |
| 10                                     | 50      | 0         |        | 20.82  | 21.05  | 20.99   |
| 10                                     | 1       | 0         | 16-QAM | 20.42  | 20.79  | 20.45   |
| 10                                     | 1       | 25        |        | 20.86  | 20.88  | 20.55   |
| 10                                     | 1       | 49        |        | 20.87  | 20.50  | 20.86   |
| 10                                     | 25      | 0         |        | 19.68  | 20.07  | 19.70   |
| 10                                     | 25      | 12        |        | 19.70  | 19.96  | 19.67   |
| 10                                     | 25      | 25        |        | 19.71  | 20.04  | 20.15   |
| 10                                     | 50      | 0         |        | 19.77  | 19.92  | 20.06   |
| 5                                      | 1       | 0         | QPSK   | 21.65  | 21.90  | 21.79   |
| 5                                      | 1       | 12        |        | 21.66  | 21.91  | 21.92   |
| 5                                      | 1       | 24        |        | 21.42  | 21.51  | 21.78   |
| 5                                      | 12      | 0         |        | 20.51  | 20.96  | 20.90   |
| 5                                      | 12      | 7         |        | 20.52  | 21.00  | 20.90   |
| 5                                      | 12      | 13        |        | 20.63  | 20.85  | 20.99   |
| 5                                      | 25      | 0         |        | 20.46  | 20.95  | 20.93   |
| 5                                      | 1       | 0         | 16-QAM | 20.46  | 20.58  | 20.84   |
| 5                                      | 1       | 12        |        | 20.62  | 20.80  | 20.75   |
| 5                                      | 1       | 24        |        | 20.35  | 20.83  | 20.55   |
| 5                                      | 12      | 0         |        | 19.72  | 19.83  | 19.80   |
| 5                                      | 12      | 7         |        | 19.51  | 19.72  | 19.80   |
| 5                                      | 12      | 13        |        | 19.57  | 19.88  | 19.79   |
| 5                                      | 25      | 0         |        | 19.73  | 19.86  | 19.71   |



| LTE Band 4 Maximum Average Power [dBm] |         |           |        |        |        |         |
|----------------------------------------|---------|-----------|--------|--------|--------|---------|
| BW [MHz]                               | RB Size | RB Offset | Mod    | Lowest | Middle | Highest |
| 3                                      | 1       | 0         | QPSK   | 21.72  | 21.98  | 21.98   |
| 3                                      | 1       | 8         |        | 21.65  | 21.94  | 22.03   |
| 3                                      | 1       | 14        |        | 21.70  | 21.80  | 22.01   |
| 3                                      | 8       | 0         |        | 20.56  | 20.95  | 20.56   |
| 3                                      | 8       | 4         |        | 20.58  | 20.61  | 21.01   |
| 3                                      | 8       | 7         |        | 20.64  | 20.87  | 20.91   |
| 3                                      | 15      | 0         |        | 20.49  | 20.97  | 20.99   |
| 3                                      | 1       | 0         | 16-QAM | 20.61  | 20.59  | 20.51   |
| 3                                      | 1       | 8         |        | 20.40  | 20.50  | 20.53   |
| 3                                      | 1       | 14        |        | 20.37  | 20.49  | 20.69   |
| 3                                      | 8       | 0         |        | 19.67  | 19.89  | 19.79   |
| 3                                      | 8       | 4         |        | 19.61  | 19.93  | 19.84   |
| 3                                      | 8       | 7         |        | 19.58  | 19.87  | 19.97   |
| 3                                      | 15      | 0         |        | 19.76  | 20.12  | 20.00   |
| 1.4                                    | 1       | 0         | QPSK   | 21.67  | 21.98  | 21.86   |
| 1.4                                    | 1       | 3         |        | 21.88  | 22.08  | 22.08   |
| 1.4                                    | 1       | 5         |        | 21.72  | 21.76  | 21.83   |
| 1.4                                    | 3       | 0         |        | 21.84  | 22.07  | 22.04   |
| 1.4                                    | 3       | 1         |        | 21.86  | 21.93  | 22.01   |
| 1.4                                    | 3       | 3         |        | 21.85  | 22.09  | 22.01   |
| 1.4                                    | 6       | 0         |        | 20.88  | 20.97  | 21.03   |
| 1.4                                    | 1       | 0         | 16-QAM | 21.09  | 21.19  | 21.01   |
| 1.4                                    | 1       | 3         |        | 21.12  | 20.98  | 20.74   |
| 1.4                                    | 1       | 5         |        | 20.81  | 20.88  | 20.78   |
| 1.4                                    | 3       | 0         |        | 20.74  | 20.86  | 20.65   |
| 1.4                                    | 3       | 1         |        | 20.77  | 20.90  | 20.71   |
| 1.4                                    | 3       | 3         |        | 20.69  | 20.95  | 21.01   |
| 1.4                                    | 6       | 0         |        | 19.69  | 20.00  | 20.06   |



| LTE Band 5 Maximum Average Power [dBm] |         |           |        |        |        |         |
|----------------------------------------|---------|-----------|--------|--------|--------|---------|
| BW [MHz]                               | RB Size | RB Offset | Mod    | Lowest | Middle | Highest |
| 10                                     | 1       | 0         | QPSK   | 21.07  | 21.00  | 21.09   |
| 10                                     | 1       | 25        |        | 21.12  | 21.49  | 21.47   |
| 10                                     | 1       | 49        |        | 21.00  | 21.18  | 21.03   |
| 10                                     | 25      | 0         |        | 20.21  | 20.04  | 20.31   |
| 10                                     | 25      | 12        |        | 20.22  | 20.38  | 20.32   |
| 10                                     | 25      | 25        |        | 20.14  | 20.17  | 20.17   |
| 10                                     | 50      | 0         |        | 20.24  | 20.30  | 20.29   |
| 10                                     | 1       | 0         | 16-QAM | 19.68  | 19.74  | 19.83   |
| 10                                     | 1       | 25        |        | 19.76  | 20.02  | 19.76   |
| 10                                     | 1       | 49        |        | 19.64  | 19.99  | 19.91   |
| 10                                     | 25      | 0         |        | 19.46  | 19.30  | 19.31   |
| 10                                     | 25      | 12        |        | 19.33  | 19.37  | 19.42   |
| 10                                     | 25      | 25        |        | 19.19  | 19.37  | 19.29   |
| 10                                     | 50      | 0         |        | 19.34  | 19.17  | 19.38   |
| 5                                      | 1       | 0         | QPSK   | 21.13  | 21.09  | 21.37   |
| 5                                      | 1       | 12        |        | 21.23  | 21.22  | 21.48   |
| 5                                      | 1       | 24        |        | 20.99  | 21.14  | 21.02   |
| 5                                      | 12      | 0         |        | 20.14  | 20.06  | 20.23   |
| 5                                      | 12      | 7         |        | 20.08  | 20.08  | 20.30   |
| 5                                      | 12      | 13        |        | 20.05  | 20.01  | 20.22   |
| 5                                      | 25      | 0         |        | 20.06  | 19.95  | 20.14   |
| 5                                      | 1       | 0         | 16-QAM | 20.01  | 19.73  | 19.65   |
| 5                                      | 1       | 12        |        | 19.87  | 20.11  | 19.86   |
| 5                                      | 1       | 24        |        | 19.62  | 20.09  | 19.61   |
| 5                                      | 12      | 0         |        | 19.12  | 18.79  | 19.08   |
| 5                                      | 12      | 7         |        | 19.05  | 18.96  | 19.16   |
| 5                                      | 12      | 13        |        | 19.12  | 18.88  | 19.27   |
| 5                                      | 25      | 0         |        | 19.26  | 18.94  | 19.21   |



| LTE Band 5 Maximum Average Power [dBm] |         |           |        |        |        |         |
|----------------------------------------|---------|-----------|--------|--------|--------|---------|
| BW [MHz]                               | RB Size | RB Offset | Mod    | Lowest | Middle | Highest |
| 3                                      | 1       | 0         | QPSK   | 21.11  | 20.87  | 20.95   |
| 3                                      | 1       | 8         |        | 21.34  | 21.24  | 21.33   |
| 3                                      | 1       | 14        |        | 20.91  | 20.89  | 20.95   |
| 3                                      | 8       | 0         |        | 19.67  | 19.65  | 19.85   |
| 3                                      | 8       | 4         |        | 20.15  | 20.01  | 19.65   |
| 3                                      | 8       | 7         |        | 20.01  | 20.01  | 20.12   |
| 3                                      | 15      | 0         |        | 20.10  | 20.09  | 20.28   |
| 3                                      | 1       | 0         | 16-QAM | 19.69  | 19.85  | 19.92   |
| 3                                      | 1       | 8         |        | 19.86  | 19.89  | 19.69   |
| 3                                      | 1       | 14        |        | 19.51  | 19.95  | 19.71   |
| 3                                      | 8       | 0         |        | 19.11  | 19.14  | 19.41   |
| 3                                      | 8       | 4         |        | 19.10  | 19.38  | 19.47   |
| 3                                      | 8       | 7         |        | 18.98  | 19.29  | 19.36   |
| 3                                      | 15      | 0         |        | 19.21  | 19.30  | 19.41   |
| 1.4                                    | 1       | 0         | QPSK   | 21.07  | 21.04  | 21.21   |
| 1.4                                    | 1       | 3         |        | 21.35  | 21.26  | 21.21   |
| 1.4                                    | 1       | 5         |        | 21.25  | 21.07  | 21.12   |
| 1.4                                    | 3       | 0         |        | 21.30  | 21.14  | 21.11   |
| 1.4                                    | 3       | 1         |        | 21.38  | 21.18  | 21.12   |
| 1.4                                    | 3       | 3         |        | 21.33  | 21.25  | 21.00   |
| 1.4                                    | 6       | 0         |        | 19.96  | 20.20  | 19.93   |
| 1.4                                    | 1       | 0         | 16-QAM | 19.91  | 19.97  | 19.82   |
| 1.4                                    | 1       | 3         |        | 19.99  | 20.13  | 20.21   |
| 1.4                                    | 1       | 5         |        | 19.92  | 20.12  | 20.10   |
| 1.4                                    | 3       | 0         |        | 20.44  | 20.08  | 20.28   |
| 1.4                                    | 3       | 1         |        | 20.45  | 20.55  | 20.53   |
| 1.4                                    | 3       | 3         |        | 20.43  | 20.31  | 20.27   |
| 1.4                                    | 6       | 0         |        | 19.34  | 19.21  | 19.50   |



| LTE Band 12 Maximum Average Power [dBm] |         |           |        |        |        |         |
|-----------------------------------------|---------|-----------|--------|--------|--------|---------|
| BW [MHz]                                | RB Size | RB Offset | Mod    | Lowest | Middle | Highest |
| 10                                      | 1       | 0         | QPSK   | 22.22  | 22.39  | 21.98   |
| 10                                      | 1       | 25        |        | 22.29  | 22.27  | 21.95   |
| 10                                      | 1       | 49        |        | 22.36  | 22.25  | 21.93   |
| 10                                      | 25      | 0         |        | 21.27  | 21.26  | 21.23   |
| 10                                      | 25      | 12        |        | 21.20  | 21.15  | 21.13   |
| 10                                      | 25      | 25        |        | 21.24  | 21.19  | 21.14   |
| 10                                      | 50      | 0         |        | 21.39  | 21.40  | 21.30   |
| 10                                      | 1       | 0         | 16-QAM | 21.18  | 20.80  | 20.99   |
| 10                                      | 1       | 25        |        | 21.08  | 20.79  | 21.19   |
| 10                                      | 1       | 49        |        | 20.92  | 20.96  | 20.73   |
| 10                                      | 25      | 0         |        | 20.26  | 20.22  | 20.37   |
| 10                                      | 25      | 12        |        | 20.34  | 20.27  | 20.54   |
| 10                                      | 25      | 25        |        | 20.29  | 20.25  | 20.51   |
| 10                                      | 50      | 0         |        | 20.44  | 20.45  | 20.50   |
| 5                                       | 1       | 0         | QPSK   | 22.30  | 22.28  | 22.29   |
| 5                                       | 1       | 12        |        | 22.31  | 22.38  | 22.35   |
| 5                                       | 1       | 24        |        | 21.98  | 22.25  | 21.90   |
| 5                                       | 12      | 0         |        | 21.44  | 21.24  | 21.54   |
| 5                                       | 12      | 7         |        | 21.27  | 21.43  | 21.33   |
| 5                                       | 12      | 13        |        | 21.11  | 21.40  | 21.30   |
| 5                                       | 25      | 0         |        | 21.17  | 21.34  | 21.35   |
| 5                                       | 1       | 0         | 16-QAM | 21.70  | 21.61  | 21.69   |
| 5                                       | 1       | 12        |        | 21.22  | 21.60  | 21.33   |
| 5                                       | 1       | 24        |        | 21.23  | 21.62  | 21.27   |
| 5                                       | 12      | 0         |        | 20.20  | 20.11  | 20.54   |
| 5                                       | 12      | 7         |        | 20.15  | 20.18  | 20.37   |
| 5                                       | 12      | 13        |        | 20.21  | 20.17  | 20.24   |
| 5                                       | 25      | 0         |        | 20.42  | 20.38  | 20.30   |



| LTE Band 12 Maximum Average Power [dBm] |         |           |        |        |        |         |
|-----------------------------------------|---------|-----------|--------|--------|--------|---------|
| BW [MHz]                                | RB Size | RB Offset | Mod    | Lowest | Middle | Highest |
| 3                                       | 1       | 0         | QPSK   | 22.15  | 22.35  | 22.38   |
| 3                                       | 1       | 8         |        | 22.18  | 22.36  | 22.17   |
| 3                                       | 1       | 14        |        | 22.04  | 22.22  | 22.21   |
| 3                                       | 8       | 0         |        | 21.21  | 21.30  | 21.52   |
| 3                                       | 8       | 4         |        | 21.32  | 21.50  | 21.47   |
| 3                                       | 8       | 7         |        | 21.69  | 21.53  | 21.38   |
| 3                                       | 15      | 0         |        | 21.12  | 21.46  | 21.47   |
| 3                                       | 1       | 0         | 16-QAM | 20.53  | 20.72  | 20.81   |
| 3                                       | 1       | 8         |        | 20.77  | 20.99  | 20.86   |
| 3                                       | 1       | 14        |        | 20.55  | 20.80  | 20.64   |
| 3                                       | 8       | 0         |        | 20.10  | 20.15  | 20.12   |
| 3                                       | 8       | 4         |        | 20.11  | 20.53  | 20.18   |
| 3                                       | 8       | 7         |        | 20.37  | 20.59  | 20.38   |
| 3                                       | 15      | 0         |        | 20.40  | 20.54  | 20.10   |
| 1.4                                     | 1       | 0         | QPSK   | 21.10  | 21.32  | 21.09   |
| 1.4                                     | 1       | 3         |        | 21.18  | 21.15  | 21.30   |
| 1.4                                     | 1       | 5         |        | 21.21  | 21.00  | 21.00   |
| 1.4                                     | 3       | 0         |        | 21.43  | 21.39  | 21.40   |
| 1.4                                     | 3       | 1         |        | 21.52  | 21.39  | 21.34   |
| 1.4                                     | 3       | 3         |        | 21.48  | 21.38  | 21.30   |
| 1.4                                     | 6       | 0         |        | 21.38  | 21.28  | 21.27   |
| 1.4                                     | 1       | 0         | 16-QAM | 21.35  | 21.38  | 21.38   |
| 1.4                                     | 1       | 3         |        | 20.94  | 20.94  | 21.43   |
| 1.4                                     | 1       | 5         |        | 20.96  | 20.94  | 20.99   |
| 1.4                                     | 3       | 0         |        | 21.20  | 21.23  | 21.55   |
| 1.4                                     | 3       | 1         |        | 21.64  | 21.38  | 21.50   |
| 1.4                                     | 3       | 3         |        | 21.56  | 21.41  | 21.56   |
| 1.4                                     | 6       | 0         |        | 20.36  | 20.10  | 20.24   |



| LTE Band 13 Maximum Average Power [dBm] |         |           |        |        |        |         |
|-----------------------------------------|---------|-----------|--------|--------|--------|---------|
| BW [MHz]                                | RB Size | RB Offset | Mod    | Lowest | Middle | Highest |
| 10                                      | 1       | 0         | QPSK   |        | 21.70  |         |
| 10                                      | 1       | 25        |        |        | 21.51  |         |
| 10                                      | 1       | 49        |        |        | 21.64  |         |
| 10                                      | 25      | 0         |        |        | 20.54  |         |
| 10                                      | 25      | 12        |        |        | 20.57  |         |
| 10                                      | 25      | 25        |        |        | 20.50  |         |
| 10                                      | 50      | 0         |        |        | 20.52  |         |
| 10                                      | 1       | 0         | 16-QAM |        | 20.91  |         |
| 10                                      | 1       | 25        |        |        | 20.47  |         |
| 10                                      | 1       | 49        |        |        | 20.96  |         |
| 10                                      | 25      | 0         |        |        | 19.46  |         |
| 10                                      | 25      | 12        |        |        | 19.50  |         |
| 10                                      | 25      | 25        |        |        | 19.55  |         |
| 10                                      | 50      | 0         |        |        | 19.57  |         |
| 5                                       | 1       | 0         | QPSK   | 21.60  | 21.61  | 21.27   |
| 5                                       | 1       | 12        |        | 21.42  | 21.66  | 21.65   |
| 5                                       | 1       | 24        |        | 21.32  | 21.63  | 21.68   |
| 5                                       | 12      | 0         |        | 20.78  | 20.58  | 20.48   |
| 5                                       | 12      | 7         |        | 20.61  | 20.53  | 20.61   |
| 5                                       | 12      | 13        |        | 20.62  | 20.55  | 20.69   |
| 5                                       | 25      | 0         |        | 20.65  | 20.68  | 20.70   |
| 5                                       | 1       | 0         | 16-QAM | 20.14  | 20.12  | 20.40   |
| 5                                       | 1       | 12        |        | 20.39  | 20.21  | 20.59   |
| 5                                       | 1       | 24        |        | 20.22  | 20.48  | 20.51   |
| 5                                       | 12      | 0         |        | 19.76  | 19.45  | 19.43   |
| 5                                       | 12      | 7         |        | 19.60  | 19.50  | 19.56   |
| 5                                       | 12      | 13        |        | 19.61  | 19.50  | 19.83   |
| 5                                       | 25      | 0         |        | 19.77  | 19.71  | 19.81   |



| LTE Band 17 Maximum Average Power [dBm] |         |           |        |        |        |         |
|-----------------------------------------|---------|-----------|--------|--------|--------|---------|
| BW [MHz]                                | RB Size | RB Offset | Mod    | Lowest | Middle | Highest |
| 10                                      | 1       | 0         | QPSK   | 21.89  | 21.83  | 21.91   |
| 10                                      | 1       | 25        |        | 22.22  | 22.31  | 22.28   |
| 10                                      | 1       | 49        |        | 21.87  | 21.81  | 21.88   |
| 10                                      | 25      | 0         |        | 21.00  | 21.13  | 21.08   |
| 10                                      | 25      | 12        |        | 21.08  | 21.03  | 21.00   |
| 10                                      | 25      | 25        |        | 21.10  | 21.14  | 21.11   |
| 10                                      | 50      | 0         |        | 21.07  | 21.08  | 21.10   |
| 10                                      | 1       | 0         | 16-QAM | 20.30  | 20.48  | 20.30   |
| 10                                      | 1       | 25        |        | 20.59  | 20.54  | 20.76   |
| 10                                      | 1       | 49        |        | 20.70  | 20.27  | 20.28   |
| 10                                      | 25      | 0         |        | 20.02  | 20.00  | 19.84   |
| 10                                      | 25      | 12        |        | 20.20  | 20.18  | 20.26   |
| 10                                      | 25      | 25        |        | 20.14  | 20.09  | 20.14   |
| 10                                      | 50      | 0         |        | 20.11  | 20.01  | 20.03   |
| 5                                       | 1       | 0         | QPSK   | 21.96  | 22.07  | 22.11   |
| 5                                       | 1       | 12        |        | 22.15  | 22.22  | 21.99   |
| 5                                       | 1       | 24        |        | 21.87  | 22.18  | 21.75   |
| 5                                       | 12      | 0         |        | 20.93  | 20.98  | 21.17   |
| 5                                       | 12      | 7         |        | 20.92  | 21.13  | 21.06   |
| 5                                       | 12      | 13        |        | 20.98  | 21.21  | 20.90   |
| 5                                       | 25      | 0         |        | 21.05  | 21.07  | 21.02   |
| 5                                       | 1       | 0         | 16-QAM | 20.31  | 20.43  | 20.34   |
| 5                                       | 1       | 12        |        | 20.59  | 20.57  | 20.65   |
| 5                                       | 1       | 24        |        | 20.79  | 20.40  | 20.35   |
| 5                                       | 12      | 0         |        | 19.82  | 19.89  | 20.07   |
| 5                                       | 12      | 7         |        | 19.88  | 20.05  | 19.92   |
| 5                                       | 12      | 13        |        | 20.01  | 20.30  | 19.90   |
| 5                                       | 25      | 0         |        | 20.09  | 20.19  | 19.97   |

**ERP/EIRP**

| LTE Band 2 (GT - LC = 2.00 dB) QPSK |        |        |        |        |        |        |        |        |        |
|-------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Bandwidth                           | 1.4M   |        |        | 3M     |        |        | 5M     |        |        |
| Channel                             | 18607  | 18900  | 19193  | 18615  | 18900  | 19185  | 18625  | 18900  | 19175  |
|                                     | (Low)  | (Mid)  | (High) | (Low)  | (Mid)  | (High) | (Low)  | (Mid)  | (High) |
| Frequency                           | 1850.7 | 1880   | 1909.3 | 1851.5 | 1880   | 1908.5 | 1852.5 | 1880   | 1907.5 |
| (MHz)                               |        |        |        |        |        |        |        |        |        |
| Conducted Power (dBm)               | 20.98  | 20.93  | 20.65  | 20.74  | 20.79  | 20.33  | 20.81  | 20.89  | 20.41  |
| Conducted Power (Watts)             | 0.1253 | 0.1239 | 0.1161 | 0.1186 | 0.1199 | 0.1079 | 0.1205 | 0.1227 | 0.1099 |
| EIRP(dBm)                           | 22.98  | 22.93  | 22.65  | 22.74  | 22.79  | 22.33  | 22.81  | 22.89  | 22.41  |
| EIRP(Watts)                         | 0.1986 | 0.1963 | 0.1841 | 0.1879 | 0.1901 | 0.1710 | 0.1910 | 0.1945 | 0.1742 |

| LTE Band 2 (GT - LC = 2.00 dB) QPSK |        |        |        |        |        |        |        |        |        |
|-------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Bandwidth                           | 10M    |        |        | 15M    |        |        | 20M    |        |        |
| Channel                             | 18650  | 18900  | 19150  | 18675  | 18900  | 19125  | 18650  | 18900  | 19100  |
|                                     | (Low)  | (Mid)  | (High) | (Low)  | (Mid)  | (High) | (Low)  | (Mid)  | (High) |
| Frequency                           | 1855   | 1880   | 1905   | 1857.5 | 1880   | 1902.5 | 1860   | 1880   | 1900   |
| (MHz)                               |        |        |        |        |        |        |        |        |        |
| Conducted Power (dBm)               | 20.72  | 20.67  | 20.52  | 20.82  | 20.78  | 20.35  | 21.01  | 21.08  | 20.98  |
| Conducted Power (Watts)             | 0.1180 | 0.1167 | 0.1127 | 0.1208 | 0.1197 | 0.1084 | 0.1262 | 0.1282 | 0.1253 |
| EIRP(dBm)                           | 22.72  | 22.67  | 22.52  | 22.82  | 22.78  | 22.35  | 23.01  | 23.08  | 22.98  |
| EIRP(Watts)                         | 0.1871 | 0.1849 | 0.1786 | 0.1914 | 0.1897 | 0.1718 | 0.2000 | 0.2032 | 0.1986 |



| LTE Band 2 (GT - LC = 2.00 dB) 16QAM |        |        |        |        |        |        |        |        |        |
|--------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Bandwidth                            | 1.4M   |        |        | 3M     |        |        | 5M     |        |        |
| Channel                              | 18607  | 18900  | 19193  | 18615  | 18900  | 19185  | 18625  | 18900  | 19175  |
|                                      | (Low)  | (Mid)  | (High) | (Low)  | (Mid)  | (High) | (Low)  | (Mid)  | (High) |
| Frequency                            | 1850.7 | 1880   | 1909.3 | 1851.5 | 1880   | 1908.5 | 1852.5 | 1880   | 1907.5 |
| (MHz)                                |        |        |        |        |        |        |        |        |        |
| Conducted Power (dBm)                | 19.72  | 19.85  | 19.46  | 19.55  | 19.57  | 19.44  | 19.63  | 19.62  | 19.19  |
| Conducted Power (Watts)              | 0.0938 | 0.0966 | 0.0883 | 0.0902 | 0.0906 | 0.0879 | 0.0918 | 0.0916 | 0.0830 |
| EIRP(dBm)                            | 21.72  | 21.85  | 21.46  | 21.55  | 21.57  | 21.44  | 21.63  | 21.62  | 21.19  |
| EIRP(Watts)                          | 0.1486 | 0.1531 | 0.1400 | 0.1429 | 0.1435 | 0.1393 | 0.1455 | 0.1452 | 0.1315 |

| LTE Band 2 (GT - LC = 2.00 dB) 16QAM |        |        |        |        |        |        |        |        |        |
|--------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Bandwidth                            | 10M    |        |        | 15M    |        |        | 20M    |        |        |
| Channel                              | 18650  | 18900  | 19150  | 18675  | 18900  | 19125  | 18650  | 18900  | 19100  |
|                                      | (Low)  | (Mid)  | (High) | (Low)  | (Mid)  | (High) | (Low)  | (Mid)  | (High) |
| Frequency                            | 1855   | 1880   | 1905   | 1857.5 | 1880   | 1902.5 | 1860   | 1880   | 1900   |
| (MHz)                                |        |        |        |        |        |        |        |        |        |
| Conducted Power (dBm)                | 19.51  | 19.49  | 19.45  | 19.89  | 19.91  | 19.86  | 19.60  | 19.20  | 19.44  |
| Conducted Power (Watts)              | 0.0893 | 0.0889 | 0.0881 | 0.0975 | 0.0979 | 0.0968 | 0.0912 | 0.0832 | 0.0879 |
| EIRP(dBm)                            | 21.51  | 21.49  | 21.45  | 21.89  | 21.91  | 21.86  | 21.60  | 21.20  | 21.44  |
| EIRP(Watts)                          | 0.1416 | 0.1409 | 0.1396 | 0.1545 | 0.1552 | 0.1535 | 0.1445 | 0.1318 | 0.1393 |



| LTE Band 4 (GT - LC = 2.00 dB) QPSK |        |        |        |        |        |        |        |        |        |
|-------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Bandwidth                           | 1.4M   |        |        | 3M     |        |        | 5M     |        |        |
| Channel                             | 19957  | 20175  | 20393  | 19965  | 20175  | 20385  | 19975  | 20175  | 20375  |
|                                     | (Low)  | (Mid)  | (High) | (Low)  | (Mid)  | (High) | (Low)  | (Mid)  | (High) |
| Frequency                           | 1710.7 | 1732.5 | 1754.3 | 1711.5 | 1732.5 | 1753.5 | 1712.5 | 1732.5 | 1752.5 |
| (MHz)                               |        |        |        |        |        |        |        |        |        |
| Conducted Power (dBm)               | 21.85  | 22.09  | 22.01  | 21.65  | 21.94  | 22.03  | 21.66  | 21.91  | 21.92  |
| Conducted Power (Watts)             | 0.1531 | 0.1618 | 0.1589 | 0.1462 | 0.1563 | 0.1596 | 0.1466 | 0.1552 | 0.1556 |
| EIRP(dBm)                           | 23.85  | 24.09  | 24.01  | 23.65  | 23.94  | 24.03  | 23.66  | 23.91  | 23.92  |
| EIRP(Watts)                         | 0.2427 | 0.2564 | 0.2518 | 0.2317 | 0.2477 | 0.2529 | 0.2323 | 0.2460 | 0.2466 |

| LTE Band 4 (GT - LC = 2.00 dB) QPSK |        |        |        |        |        |        |        |        |        |
|-------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Bandwidth                           | 10M    |        |        | 15M    |        |        | 20M    |        |        |
| Channel                             | 20000  | 20175  | 20350  | 20025  | 20175  | 20325  | 20050  | 20175  | 20300  |
|                                     | (Low)  | (Mid)  | (High) | (Low)  | (Mid)  | (High) | (Low)  | (Mid)  | (High) |
| Frequency                           | 1715   | 1732.5 | 1750   | 1717.5 | 1732.5 | 1747.5 | 1720   | 1732.5 | 1745   |
| (MHz)                               |        |        |        |        |        |        |        |        |        |
| Conducted Power (dBm)               | 21.73  | 22.05  | 22.03  | 21.82  | 22.04  | 21.88  | 21.95  | 22.10  | 21.93  |
| Conducted Power (Watts)             | 0.1489 | 0.1603 | 0.1596 | 0.1521 | 0.1600 | 0.1542 | 0.1567 | 0.1622 | 0.1560 |
| EIRP(dBm)                           | 23.73  | 24.05  | 24.03  | 23.82  | 24.04  | 23.88  | 23.95  | 24.10  | 23.93  |
| EIRP(Watts)                         | 0.2360 | 0.2541 | 0.2529 | 0.2410 | 0.2535 | 0.2443 | 0.2483 | 0.2570 | 0.2472 |



| LTE Band 4 (GT - LC = 2.00 dB) 16QAM |        |        |        |        |        |        |        |        |        |
|--------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Bandwidth                            | 1.4M   |        |        | 3M     |        |        | 5M     |        |        |
| Channel                              | 19957  | 20175  | 20393  | 19965  | 20175  | 20385  | 19975  | 20175  | 20375  |
|                                      | (Low)  | (Mid)  | (High) | (Low)  | (Mid)  | (High) | (Low)  | (Mid)  | (High) |
| Frequency                            | 1710.7 | 1732.5 | 1754.3 | 1711.5 | 1732.5 | 1753.5 | 1712.5 | 1732.5 | 1752.5 |
| (MHz)                                |        |        |        |        |        |        |        |        |        |
| Conducted Power (dBm)                | 21.09  | 21.19  | 21.01  | 20.37  | 20.49  | 20.69  | 20.46  | 20.58  | 20.84  |
| Conducted Power (Watts)              | 0.1285 | 0.1315 | 0.1262 | 0.1089 | 0.1119 | 0.1172 | 0.1112 | 0.1143 | 0.1213 |
| EIRP(dBm)                            | 23.09  | 23.19  | 23.01  | 22.37  | 22.49  | 22.69  | 22.46  | 22.58  | 22.84  |
| EIRP(Watts)                          | 0.2037 | 0.2084 | 0.2000 | 0.1726 | 0.1774 | 0.1858 | 0.1762 | 0.1811 | 0.1923 |

| LTE Band 4 (GT - LC = 2.00 dB) 16QAM |        |        |        |        |        |        |        |        |        |
|--------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Bandwidth                            | 10M    |        |        | 15M    |        |        | 20M    |        |        |
| Channel                              | 20000  | 20175  | 20350  | 20025  | 20175  | 20325  | 20050  | 20175  | 20300  |
|                                      | (Low)  | (Mid)  | (High) | (Low)  | (Mid)  | (High) | (Low)  | (Mid)  | (High) |
| Frequency                            | 1715   | 1732.5 | 1750   | 1717.5 | 1732.5 | 1747.5 | 1720   | 1732.5 | 1745   |
| (MHz)                                |        |        |        |        |        |        |        |        |        |
| Conducted Power (dBm)                | 20.86  | 20.88  | 20.55  | 20.48  | 20.87  | 20.93  | 20.65  | 20.86  | 20.61  |
| Conducted Power (Watts)              | 0.1219 | 0.1225 | 0.1135 | 0.1117 | 0.1222 | 0.1239 | 0.1161 | 0.1219 | 0.1151 |
| EIRP(dBm)                            | 22.86  | 22.88  | 22.55  | 22.48  | 22.87  | 22.93  | 22.65  | 22.86  | 22.61  |
| EIRP(Watts)                          | 0.1932 | 0.1941 | 0.1799 | 0.1770 | 0.1936 | 0.1963 | 0.1841 | 0.1932 | 0.1824 |



| LTE Band 5 (GT - LC = 1.50 dB) QPSK |        |        |        |        |        |        |        |        |        |
|-------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Bandwidth                           | 1.4M   |        |        | 3M     |        |        | 5M     |        |        |
| Channel                             | 20407  | 20525  | 20643  | 20415  | 20525  | 20635  | 20425  | 20525  | 20625  |
|                                     | (Low)  | (Mid)  | (High) | (Low)  | (Mid)  | (High) | (Low)  | (Mid)  | (High) |
| Frequency                           | 824.7  | 836.5  | 848.3  | 825.5  | 836.5  | 847.5  | 826.5  | 836.5  | 846.5  |
| (MHz)                               |        |        |        |        |        |        |        |        |        |
| Conducted Power (dBm)               | 21.38  | 21.18  | 21.12  | 21.34  | 21.24  | 21.33  | 21.23  | 21.22  | 21.48  |
| Conducted Power (Watts)             | 0.1374 | 0.1312 | 0.1294 | 0.1361 | 0.1330 | 0.1358 | 0.1327 | 0.1324 | 0.1406 |
| ERP(dBm)                            | 20.73  | 20.53  | 20.47  | 20.69  | 20.59  | 20.68  | 20.58  | 20.57  | 20.83  |
| ERP(Watts)                          | 0.1183 | 0.1130 | 0.1114 | 0.1172 | 0.1146 | 0.1169 | 0.1143 | 0.1140 | 0.1211 |

| LTE Band 5 (GT - LC = 1.50 dB) QPSK |        |        |        |
|-------------------------------------|--------|--------|--------|
| Bandwidth                           | 10M    |        |        |
| Channel                             | 20450  | 20525  | 20600  |
|                                     | (Low)  | (Mid)  | (High) |
| Frequency                           | 829    | 836.5  | 844    |
| (MHz)                               |        |        |        |
| Conducted Power (dBm)               | 21.12  | 21.49  | 21.47  |
| Conducted Power (Watts)             | 0.1294 | 0.1409 | 0.1403 |
| ERP(dBm)                            | 20.47  | 20.84  | 20.82  |
| ERP(Watts)                          | 0.1114 | 0.1213 | 0.1208 |



| LTE Band 5 (GT - LC = 1.50 dB) 16QAM |        |        |        |        |        |        |        |        |        |
|--------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Bandwidth                            | 1.4M   |        |        | 3M     |        |        | 5M     |        |        |
| Channel                              | 20407  | 20525  | 20643  | 20415  | 20525  | 20635  | 20425  | 20525  | 20625  |
|                                      | (Low)  | (Mid)  | (High) | (Low)  | (Mid)  | (High) | (Low)  | (Mid)  | (High) |
| Frequency                            | 824.7  | 836.5  | 848.3  | 825.5  | 836.5  | 847.5  | 826.5  | 836.5  | 846.5  |
| (MHz)                                |        |        |        |        |        |        |        |        |        |
| Conducted Power (dBm)                | 20.45  | 20.55  | 20.53  | 19.51  | 19.95  | 19.71  | 19.62  | 20.09  | 19.61  |
| Conducted Power (Watts)              | 0.1109 | 0.1135 | 0.1130 | 0.0893 | 0.0989 | 0.0935 | 0.0916 | 0.1021 | 0.0914 |
| ERP(dBm)                             | 19.80  | 19.90  | 19.88  | 18.86  | 19.30  | 19.06  | 18.97  | 19.44  | 18.96  |
| ERP(Watts)                           | 0.0955 | 0.0977 | 0.0973 | 0.0769 | 0.0851 | 0.0805 | 0.0789 | 0.0879 | 0.0787 |

| LTE Band 5 (GT - LC = 1.50 dB) 16QAM |        |        |        |
|--------------------------------------|--------|--------|--------|
| Bandwidth                            | 10M    |        |        |
| Channel                              | 20450  | 20525  | 20600  |
|                                      | (Low)  | (Mid)  | (High) |
| Frequency                            | 829    | 836.5  | 844    |
| (MHz)                                |        |        |        |
| Conducted Power (dBm)                | 19.76  | 20.02  | 19.76  |
| Conducted Power (Watts)              | 0.0946 | 0.1005 | 0.0946 |
| ERP(dBm)                             | 19.11  | 19.37  | 19.11  |
| ERP(Watts)                           | 0.0815 | 0.0865 | 0.0815 |



| LTE Band 12 (GT - LC = 1.50 dB) QPSK |        |        |        |        |        |        |        |        |        |
|--------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Bandwidth                            | 1.4M   |        |        | 3M     |        |        | 5M     |        |        |
| Channel                              | 23017  | 23095  | 23173  | 23025  | 23095  | 23165  | 23035  | 23095  | 23155  |
|                                      | (Low)  | (Mid)  | (High) | (Low)  | (Mid)  | (High) | (Low)  | (Mid)  | (High) |
| Frequency                            | 699.7  | 707.5  | 715.3  | 700.5  | 707.5  | 714.5  | 701.5  | 707.5  | 713.5  |
| (MHz)                                |        |        |        |        |        |        |        |        |        |
| Conducted Power (dBm)                | 21.52  | 21.39  | 21.34  | 22.18  | 22.36  | 22.17  | 22.31  | 22.38  | 22.35  |
| Conducted Power (Watts)              | 0.1419 | 0.1377 | 0.1361 | 0.1652 | 0.1722 | 0.1648 | 0.1702 | 0.1730 | 0.1718 |
| ERP(dBm)                             | 20.87  | 20.74  | 20.69  | 21.53  | 21.71  | 21.52  | 21.66  | 21.73  | 21.70  |
| ERP(Watts)                           | 0.1222 | 0.1186 | 0.1172 | 0.1422 | 0.1483 | 0.1419 | 0.1466 | 0.1489 | 0.1479 |

| LTE Band 12 (GT - LC = 1.50 dB) QPSK |        |        |        |
|--------------------------------------|--------|--------|--------|
| Bandwidth                            | 10M    |        |        |
| Channel                              | 23060  | 23095  | 23130  |
|                                      | (Low)  | (Mid)  | (High) |
| Frequency                            | 704    | 707.5  | 711    |
| (MHz)                                |        |        |        |
| Conducted Power (dBm)                | 22.22  | 22.39  | 21.98  |
| Conducted Power (Watts)              | 0.1667 | 0.1734 | 0.1578 |
| ERP(dBm)                             | 21.57  | 21.74  | 21.33  |
| ERP(Watts)                           | 0.1435 | 0.1493 | 0.1358 |



| LTE Band 12 (GT - LC = 1.50 dB) 16QAM |        |        |        |        |        |        |        |        |        |
|---------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Bandwidth                             | 1.4M   |        |        | 3M     |        |        | 5M     |        |        |
| Channel                               | 23017  | 23095  | 23173  | 23025  | 23095  | 23165  | 23035  | 23095  | 23155  |
|                                       | (Low)  | (Mid)  | (High) | (Low)  | (Mid)  | (High) | (Low)  | (Mid)  | (High) |
| Frequency<br>(MHz)                    | 699.7  | 707.5  | 715.3  | 700.5  | 707.5  | 714.5  | 701.5  | 707.5  | 713.5  |
| Conducted Power (dBm)                 | 21.64  | 21.38  | 21.50  | 20.77  | 20.99  | 20.86  | 21.70  | 21.61  | 21.69  |
| Conducted Power (Watts)               | 0.1459 | 0.1374 | 0.1413 | 0.1194 | 0.1256 | 0.1219 | 0.1479 | 0.1449 | 0.1476 |
| ERP(dBm)                              | 20.99  | 20.73  | 20.85  | 20.12  | 20.34  | 20.21  | 21.05  | 20.96  | 21.04  |
| ERP(Watts)                            | 0.1256 | 0.1183 | 0.1216 | 0.1028 | 0.1081 | 0.1050 | 0.1274 | 0.1247 | 0.1271 |

| LTE Band 12 (GT - LC = 1.50 dB) 16QAM |        |        |        |
|---------------------------------------|--------|--------|--------|
| Bandwidth                             | 10M    |        |        |
| Channel                               | 23060  | 23095  | 23130  |
|                                       | (Low)  | (Mid)  | (High) |
| Frequency<br>(MHz)                    | 704    | 707.5  | 711    |
| Conducted Power (dBm)                 | 21.08  | 20.79  | 21.19  |
| Conducted Power (Watts)               | 0.1282 | 0.1199 | 0.1315 |
| ERP(dBm)                              | 20.43  | 20.14  | 20.54  |
| ERP(Watts)                            | 0.1104 | 0.1033 | 0.1132 |



| LTE Band 13 (GT - LC = 1.50 dB) QPSK |        |        |        |       |        |   |
|--------------------------------------|--------|--------|--------|-------|--------|---|
| Bandwidth                            | 5M     |        |        | 10M   |        |   |
| Channel                              | 23205  | 23230  | 23255  | 23230 |        |   |
|                                      | (Low)  | (Mid)  | (High) | -     | (Mid)  | - |
| Frequency                            | 779.5  | 782    | 784.5  | -     | 782    | - |
| (MHz)                                |        |        |        |       |        |   |
| Conducted Power (dBm)                | 21.32  | 21.63  | 21.68  | -     | 21.70  | - |
| Conducted Power (Watts)              | 0.1355 | 0.1455 | 0.1472 | -     | 0.1479 | - |
| ERP(dBm)                             | 20.67  | 20.98  | 21.03  | -     | 21.05  | - |
| ERP(Watts)                           | 0.1167 | 0.1253 | 0.1268 | -     | 0.1274 | - |

| LTE Band 13 (GT - LC = 1.50 dB) 16QAM |        |        |        |       |        |   |
|---------------------------------------|--------|--------|--------|-------|--------|---|
| Bandwidth                             | 5M     |        |        | 10M   |        |   |
| Channel                               | 23205  | 23230  | 23255  | 23230 |        |   |
|                                       | (Low)  | (Mid)  | (High) | -     | (Mid)  | - |
| Frequency                             | 779.5  | 782    | 784.5  | -     | 782    | - |
| (MHz)                                 |        |        |        |       |        |   |
| Conducted Power (dBm)                 | 20.39  | 20.21  | 20.59  | -     | 20.91  | - |
| Conducted Power (Watts)               | 0.1094 | 0.1050 | 0.1146 | -     | 0.1233 | - |
| ERP(dBm)                              | 19.74  | 19.56  | 19.94  | -     | 20.26  | - |
| ERP(Watts)                            | 0.0942 | 0.0904 | 0.0986 | -     | 0.1062 | - |



| LTE Band 17 (GT - LC = 1.50 dB) QPSK |        |        |        |        |        |        |
|--------------------------------------|--------|--------|--------|--------|--------|--------|
| Bandwidth                            | 5M     |        |        | 10M    |        |        |
| Channel                              | 23755  | 23790  | 23825  | 23780  | 23790  | 23800  |
|                                      | (Low)  | (Mid)  | (High) | (Low)  | (Mid)  | (High) |
| Frequency                            | 706.5  | 710    | 713.5  | 709    | 710    | 711    |
| (MHz)                                |        |        |        |        |        |        |
| Conducted Power (dBm)                | 22.15  | 22.22  | 21.99  | 22.22  | 22.31  | 22.28  |
| Conducted Power (Watts)              | 0.1641 | 0.1667 | 0.1581 | 0.1667 | 0.1702 | 0.1690 |
| ERP(dBm)                             | 21.50  | 21.57  | 21.34  | 21.57  | 21.66  | 21.63  |
| ERP(Watts)                           | 0.1413 | 0.1435 | 0.1361 | 0.1435 | 0.1466 | 0.1455 |

| LTE Band 17 (GT - LC = 1.50 dB) 16QAM |        |        |        |        |        |        |
|---------------------------------------|--------|--------|--------|--------|--------|--------|
| Bandwidth                             | 5M     |        |        | 10M    |        |        |
| Channel                               | 23755  | 23790  | 23825  | 23780  | 23790  | 23800  |
|                                       | (Low)  | (Mid)  | (High) | (Low)  | (Mid)  | (High) |
| Frequency                             | 706.5  | 710    | 713.5  | 709    | 710    | 711    |
| (MHz)                                 |        |        |        |        |        |        |
| Conducted Power (dBm)                 | 20.79  | 20.40  | 20.35  | 20.59  | 20.54  | 20.76  |
| Conducted Power (Watts)               | 0.1199 | 0.1096 | 0.1084 | 0.1146 | 0.1132 | 0.1191 |
| ERP(dBm)                              | 20.14  | 19.75  | 19.70  | 19.94  | 19.89  | 20.11  |
| ERP(Watts)                            | 0.1033 | 0.0944 | 0.0933 | 0.0986 | 0.0975 | 0.1026 |



## Appendix B. Test Results of Radiated Test

### Radiated Spurious Emission

| LTE Band 2 / 1.4MHz / QPSK |                      |                 |                  |                         |                         |                          |                            |                             |                       |
|----------------------------|----------------------|-----------------|------------------|-------------------------|-------------------------|--------------------------|----------------------------|-----------------------------|-----------------------|
| Channel                    | Frequency<br>( MHz ) | EIRP<br>( dBm ) | Limit<br>( dBm ) | Over<br>Limit<br>( dB ) | SPA<br>Reading<br>(dBm) | S.G.<br>Power<br>( dBm ) | TX Cable<br>loss<br>( dB ) | TX Antenna<br>Gain<br>(dBi) | Polarization<br>(H/V) |
| Lowest                     | 3700.32              | -46.73          | -13              | -33.73                  | -60.35                  | -54.42                   | 4.87                       | 12.56                       | H                     |
|                            | 5550.48              | -36.55          | -13              | -23.55                  | -53.91                  | -42.45                   | 7.12                       | 13.02                       | H                     |
|                            | 7400.64              | -56.52          | -13              | -43.52                  | -76.50                  | -60.25                   | 7.59                       | 11.32                       | H                     |
|                            | 3700.32              | -47.82          | -13              | -34.82                  | -62.15                  | -55.51                   | 4.87                       | 12.56                       | V                     |
|                            | 5550.48              | -34.85          | -13              | -21.85                  | -53                     | -40.75                   | 7.12                       | 13.02                       | V                     |
|                            | 7400.64              | -55.57          | -13              | -42.57                  | -75.21                  | -59.30                   | 7.59                       | 11.32                       | V                     |
| Middle                     | 3758.92              | -43.25          | -13              | -30.25                  | -56.87                  | -50.85                   | 5.00                       | 12.60                       | H                     |
|                            | 5638.38              | -32.34          | -13              | -19.34                  | -50.47                  | -38.14                   | 7.30                       | 13.10                       | H                     |
|                            | 7517.84              | -54.52          | -13              | -41.52                  | -74.50                  | -58.09                   | 7.73                       | 11.30                       | H                     |
|                            | 3758.92              | -44.15          | -13              | -31.15                  | -58.48                  | -51.75                   | 5.00                       | 12.60                       | V                     |
|                            | 5638.38              | -37.46          | -13              | -24.46                  | -55.04                  | -43.26                   | 7.30                       | 13.10                       | V                     |
|                            | 7517.84              | -52.83          | -13              | -39.83                  | -72.47                  | -56.40                   | 7.73                       | 11.30                       | V                     |
| Highest                    | 3817.52              | -42.50          | -13              | -29.50                  | -56.12                  | -49.79                   | 5.36                       | 12.65                       | H                     |
|                            | 5726.28              | -37.95          | -13              | -24.95                  | -54.84                  | -43.63                   | 7.52                       | 13.20                       | H                     |
|                            | 7635.04              | -57.34          | -13              | -44.34                  | -77.32                  | -60.85                   | 7.85                       | 11.36                       | H                     |
|                            | 3817.52              | -44.42          | -13              | -31.42                  | -58.75                  | -51.71                   | 5.36                       | 12.65                       | V                     |
|                            | 5726.28              | -37.29          | -13              | -24.29                  | -54.91                  | -42.97                   | 7.52                       | 13.20                       | V                     |
|                            | 7635.04              | -53.33          | -13              | -40.33                  | -72.97                  | -56.84                   | 7.85                       | 11.36                       | V                     |

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



| LTE Band 2 / 3MHz / QPSK |                      |                 |                  |                         |                         |                          |                            |                             |                       |
|--------------------------|----------------------|-----------------|------------------|-------------------------|-------------------------|--------------------------|----------------------------|-----------------------------|-----------------------|
| Channel                  | Frequency<br>( MHz ) | EIRP<br>( dBm ) | Limit<br>( dBm ) | Over<br>Limit<br>( dB ) | SPA<br>Reading<br>(dBm) | S.G.<br>Power<br>( dBm ) | TX Cable<br>loss<br>( dB ) | TX Antenna<br>Gain<br>(dBi) | Polarization<br>(H/V) |
| Lowest                   | 3700.48              | -46.80          | -13              | -33.80                  | -60.42                  | -54.49                   | 4.87                       | 12.56                       | H                     |
|                          | 5550.72              | -35.55          | -13              | -22.55                  | -53.20                  | -41.45                   | 7.12                       | 13.02                       | H                     |
|                          | 7400.96              | -55.58          | -13              | -42.58                  | -75.56                  | -59.31                   | 7.59                       | 11.32                       | H                     |
|                          | 3700.48              | -48.59          | -13              | -35.59                  | -62.92                  | -56.28                   | 4.87                       | 12.56                       | V                     |
|                          | 5550.72              | -36.12          | -13              | -23.12                  | -53.98                  | -42.02                   | 7.12                       | 13.02                       | V                     |
|                          | 7400.96              | -55.08          | -13              | -42.08                  | -74.72                  | -58.81                   | 7.59                       | 11.32                       | V                     |
| Middle                   | 3757.48              | -43.89          | -13              | -30.89                  | -57.51                  | -51.49                   | 5.00                       | 12.60                       | H                     |
|                          | 5636.22              | -33.28          | -13              | -20.28                  | -51.32                  | -39.08                   | 7.30                       | 13.10                       | H                     |
|                          | 7514.96              | -55.50          | -13              | -42.50                  | -75.48                  | -59.07                   | 7.73                       | 11.30                       | H                     |
|                          | 3757.48              | -44.73          | -13              | -31.73                  | -59.06                  | -52.33                   | 5.00                       | 12.60                       | V                     |
|                          | 5636.22              | -39.09          | -13              | -26.09                  | -56.1                   | -44.89                   | 7.30                       | 13.10                       | V                     |
|                          | 7514.96              | -53.11          | -13              | -40.11                  | -72.75                  | -56.68                   | 7.73                       | 11.30                       | V                     |
| Highest                  | 3814.48              | -42.63          | -13              | -29.63                  | -56.25                  | -49.92                   | 5.36                       | 12.65                       | H                     |
|                          | 5721.72              | -41.27          | -13              | -28.27                  | -57.87                  | -46.95                   | 7.52                       | 13.20                       | H                     |
|                          | 7628.96              | -56.65          | -13              | -43.65                  | -76.63                  | -60.16                   | 7.85                       | 11.36                       | H                     |
|                          | 3814.48              | -44.66          | -13              | -31.66                  | -58.99                  | -51.95                   | 5.36                       | 12.65                       | V                     |
|                          | 5721.72              | -41.82          | -13              | -28.82                  | -58.35                  | -47.50                   | 7.52                       | 13.20                       | V                     |
|                          | 7628.96              | -54.70          | -13              | -41.70                  | -74.34                  | -58.21                   | 7.85                       | 11.36                       | V                     |

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



| LTE Band 2 / 5MHz / QPSK |                      |                 |                  |                         |                         |                          |                            |                             |                       |
|--------------------------|----------------------|-----------------|------------------|-------------------------|-------------------------|--------------------------|----------------------------|-----------------------------|-----------------------|
| Channel                  | Frequency<br>( MHz ) | EIRP<br>( dBm ) | Limit<br>( dBm ) | Over<br>Limit<br>( dB ) | SPA<br>Reading<br>(dBm) | S.G.<br>Power<br>( dBm ) | TX Cable<br>loss<br>( dB ) | TX Antenna<br>Gain<br>(dBi) | Polarization<br>(H/V) |
| Lowest                   | 3700.68              | -49.74          | -13              | -36.74                  | -63.36                  | -57.43                   | 4.87                       | 12.56                       | H                     |
|                          | 5551.02              | -36.46          | -13              | -23.46                  | -53.85                  | -42.36                   | 7.12                       | 13.02                       | H                     |
|                          | 7401.36              | -56.38          | -13              | -43.38                  | -76.36                  | -60.11                   | 7.59                       | 11.32                       | H                     |
|                          | 3700.68              | -48.62          | -13              | -35.62                  | -62.95                  | -56.31                   | 4.87                       | 12.56                       | V                     |
|                          | 5551.02              | -36.49          | -13              | -23.49                  | -54.28                  | -42.39                   | 7.12                       | 13.02                       | V                     |
|                          | 7401.36              | -54.70          | -13              | -41.70                  | -74.34                  | -58.43                   | 7.59                       | 11.32                       | V                     |
| Middle                   | 3755.68              | -45.31          | -13              | -32.31                  | -58.93                  | -52.91                   | 5.00                       | 12.60                       | H                     |
|                          | 5633.52              | -41.28          | -13              | -28.28                  | -57.88                  | -47.08                   | 7.30                       | 13.10                       | H                     |
|                          | 7511.36              | -55.91          | -13              | -42.91                  | -75.89                  | -59.48                   | 7.73                       | 11.30                       | H                     |
|                          | 3755.68              | -46.41          | -13              | -33.41                  | -60.74                  | -54.01                   | 5.00                       | 12.60                       | V                     |
|                          | 5633.52              | -40.75          | -13              | -27.75                  | -57.28                  | -46.55                   | 7.30                       | 13.10                       | V                     |
|                          | 7511.36              | -54.11          | -13              | -41.11                  | -73.75                  | -57.68                   | 7.73                       | 11.30                       | V                     |
| Highest                  | 3810.68              | -40.41          | -13              | -27.41                  | -54.71                  | -47.70                   | 5.36                       | 12.65                       | H                     |
|                          | 5716.02              | -42.04          | -13              | -29.04                  | -58.64                  | -47.72                   | 7.52                       | 13.20                       | H                     |
|                          | 7621.36              | -54.07          | -13              | -41.07                  | -74.05                  | -57.58                   | 7.85                       | 11.36                       | H                     |
|                          | 3810.68              | -44.44          | -13              | -31.44                  | -58.77                  | -51.73                   | 5.36                       | 12.65                       | V                     |
|                          | 5716.02              | -43.55          | -13              | -30.55                  | -60.08                  | -49.23                   | 7.52                       | 13.20                       | V                     |
|                          | 7621.36              | -51.24          | -13              | -38.24                  | -70.88                  | -54.75                   | 7.85                       | 11.36                       | V                     |

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



| LTE Band 2 / 10MHz / QPSK |                      |                 |                  |                         |                         |                          |                            |                             |                       |
|---------------------------|----------------------|-----------------|------------------|-------------------------|-------------------------|--------------------------|----------------------------|-----------------------------|-----------------------|
| Channel                   | Frequency<br>( MHz ) | EIRP<br>( dBm ) | Limit<br>( dBm ) | Over<br>Limit<br>( dB ) | SPA<br>Reading<br>(dBm) | S.G.<br>Power<br>( dBm ) | TX Cable<br>loss<br>( dB ) | TX Antenna<br>Gain<br>(dBi) | Polarization<br>(H/V) |
| Lowest                    | 3701.18              | -56.82          | -13              | -43.82                  | -70.44                  | -64.51                   | 4.87                       | 12.56                       | H                     |
|                           | 5551.77              | -49.94          | -13              | -36.94                  | -66.54                  | -55.84                   | 7.12                       | 13.02                       | H                     |
|                           | 7402.36              | -60.46          | -13              | -47.46                  | -80.44                  | -64.19                   | 7.59                       | 11.32                       | H                     |
|                           | 3701.18              | -56.29          | -13              | -43.29                  | -70.62                  | -63.98                   | 4.87                       | 12.56                       | V                     |
|                           | 5551.77              | -43.94          | -13              | -30.94                  | -60.47                  | -49.84                   | 7.12                       | 13.02                       | V                     |
|                           | 7402.36              | -60.80          | -13              | -47.80                  | -80.44                  | -64.53                   | 7.59                       | 11.32                       | V                     |
| Middle                    | 3751.18              | -46.91          | -13              | -33.91                  | -60.53                  | -54.51                   | 5.00                       | 12.60                       | H                     |
|                           | 5626.77              | -38.36          | -13              | -25.36                  | -55.23                  | -44.16                   | 7.30                       | 13.10                       | H                     |
|                           | 7502.00              | -56.88          | -13              | -43.88                  | -76.86                  | -60.45                   | 7.73                       | 11.30                       | H                     |
|                           | 3751.18              | -46.75          | -13              | -33.75                  | -61.08                  | -54.35                   | 5.00                       | 12.60                       | V                     |
|                           | 5626.77              | -40.35          | -13              | -27.35                  | -56.88                  | -46.15                   | 7.30                       | 13.10                       | V                     |
|                           | 7502.00              | -55.38          | -13              | -42.38                  | -75.02                  | -58.95                   | 7.73                       | 11.30                       | V                     |
| Highest                   | 3801.18              | -43.89          | -13              | -30.89                  | -57.51                  | -51.18                   | 5.36                       | 12.65                       | H                     |
|                           | 5701.77              | -42.28          | -13              | -29.28                  | -58.88                  | -47.96                   | 7.52                       | 13.20                       | H                     |
|                           | 7602.36              | -55.60          | -13              | -42.60                  | -75.58                  | -59.11                   | 7.85                       | 11.36                       | H                     |
|                           | 3801.18              | -47.45          | -13              | -34.45                  | -61.78                  | -54.74                   | 5.36                       | 12.65                       | V                     |
|                           | 5701.77              | -41.76          | -13              | -28.76                  | -58.29                  | -47.44                   | 7.52                       | 13.20                       | V                     |
|                           | 7602.36              | -52.97          | -13              | -39.97                  | -72.61                  | -56.48                   | 7.85                       | 11.36                       | V                     |

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



| LTE Band 2 / 15MHz / QPSK |                      |                 |                  |                         |                         |                          |                            |                             |                       |
|---------------------------|----------------------|-----------------|------------------|-------------------------|-------------------------|--------------------------|----------------------------|-----------------------------|-----------------------|
| Channel                   | Frequency<br>( MHz ) | EIRP<br>( dBm ) | Limit<br>( dBm ) | Over<br>Limit<br>( dB ) | SPA<br>Reading<br>(dBm) | S.G.<br>Power<br>( dBm ) | TX Cable<br>loss<br>( dB ) | TX Antenna<br>Gain<br>(dBi) | Polarization<br>(H/V) |
| Lowest                    | 3701.68              | -48.53          | -13              | -35.53                  | -62.15                  | -56.22                   | 4.87                       | 12.56                       | H                     |
|                           | 5552.52              | -36.68          | -13              | -23.68                  | -54.00                  | -42.58                   | 7.12                       | 13.02                       | H                     |
|                           | 7403.36              | -56.18          | -13              | -43.18                  | -76.16                  | -59.91                   | 7.59                       | 11.32                       | H                     |
|                           | 3701.68              | -49.00          | -13              | -36.00                  | -63.33                  | -56.69                   | 4.87                       | 12.56                       | V                     |
|                           | 5552.52              | -36.54          | -13              | -23.54                  | -54.32                  | -42.44                   | 7.12                       | 13.02                       | V                     |
|                           | 7403.36              | -55.20          | -13              | -42.20                  | -74.84                  | -58.93                   | 7.59                       | 11.32                       | V                     |
| Middle                    | 3746.68              | -46.50          | -13              | -33.50                  | -60.12                  | -54.10                   | 5.00                       | 12.60                       | H                     |
|                           | 5620.02              | -34.12          | -13              | -21.12                  | -52.08                  | -39.92                   | 7.30                       | 13.10                       | H                     |
|                           | 7493.36              | -55.34          | -13              | -42.34                  | -75.32                  | -58.91                   | 7.73                       | 11.30                       | H                     |
|                           | 3746.68              | -47.30          | -13              | -34.30                  | -61.63                  | -54.90                   | 5.00                       | 12.60                       | V                     |
|                           | 5620.02              | -36.09          | -13              | -23.09                  | -53.95                  | -41.89                   | 7.30                       | 13.10                       | V                     |
|                           | 7493.36              | -53.24          | -13              | -40.24                  | -72.88                  | -56.81                   | 7.73                       | 11.30                       | V                     |
| Highest                   | 3791.68              | -45.06          | -13              | -32.06                  | -58.68                  | -52.35                   | 5.36                       | 12.65                       | H                     |
|                           | 5687.52              | -35.85          | -13              | -22.85                  | -53.42                  | -41.53                   | 7.52                       | 13.20                       | H                     |
|                           | 7583.36              | -55.36          | -13              | -42.36                  | -75.34                  | -58.87                   | 7.85                       | 11.36                       | H                     |
|                           | 3791.68              | -44.94          | -13              | -31.94                  | -59.27                  | -52.23                   | 5.36                       | 12.65                       | V                     |
|                           | 5687.52              | -36.89          | -13              | -23.89                  | -54.6                   | -42.57                   | 7.52                       | 13.20                       | V                     |
|                           | 7583.36              | -54.20          | -13              | -41.20                  | -73.84                  | -57.71                   | 7.85                       | 11.36                       | V                     |

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



| LTE Band 2 / 20MHz / QPSK |                      |                 |                  |                         |                         |                          |                            |                             |                       |
|---------------------------|----------------------|-----------------|------------------|-------------------------|-------------------------|--------------------------|----------------------------|-----------------------------|-----------------------|
| Channel                   | Frequency<br>( MHz ) | EIRP<br>( dBm ) | Limit<br>( dBm ) | Over<br>Limit<br>( dB ) | SPA<br>Reading<br>(dBm) | S.G.<br>Power<br>( dBm ) | TX Cable<br>loss<br>( dB ) | TX Antenna<br>Gain<br>(dBi) | Polarization<br>(H/V) |
| Lowest                    | 3702.18              | -47.11          | -13              | -34.11                  | -60.73                  | -54.80                   | 4.87                       | 12.56                       | H                     |
|                           | 5553.27              | -37.12          | -13              | -24.12                  | -54.30                  | -43.02                   | 7.12                       | 13.02                       | H                     |
|                           | 7404.36              | -56.43          | -13              | -43.43                  | -76.41                  | -60.16                   | 7.59                       | 11.32                       | H                     |
|                           | 3702.18              | -47.73          | -13              | -34.73                  | -62.06                  | -55.42                   | 4.87                       | 12.56                       | V                     |
|                           | 5553.27              | -33.92          | -13              | -20.92                  | -52.24                  | -39.82                   | 7.12                       | 13.02                       | V                     |
|                           | 7404.36              | -56.16          | -13              | -43.16                  | -75.8                   | -59.89                   | 7.59                       | 11.32                       | V                     |
| Middle                    | 3742.18              | -45.78          | -13              | -32.78                  | -59.40                  | -53.38                   | 5.00                       | 12.60                       | H                     |
|                           | 5613.27              | -33.65          | -13              | -20.65                  | -51.66                  | -39.45                   | 7.30                       | 13.10                       | H                     |
|                           | 7484.36              | -54.63          | -13              | -41.63                  | -74.61                  | -58.20                   | 7.73                       | 11.30                       | H                     |
|                           | 3742.18              | -47.03          | -13              | -34.03                  | -61.36                  | -54.63                   | 5.00                       | 12.60                       | V                     |
|                           | 5613.27              | -37.57          | -13              | -24.57                  | -55.12                  | -43.37                   | 7.30                       | 13.10                       | V                     |
|                           | 7484.36              | -52.65          | -13              | -39.65                  | -72.29                  | -56.22                   | 7.73                       | 11.30                       | V                     |
| Highest                   | 3782.18              | -43.54          | -13              | -30.54                  | -57.16                  | -50.83                   | 5.36                       | 12.65                       | H                     |
|                           | 5673.27              | -35.58          | -13              | -22.58                  | -53.22                  | -41.26                   | 7.52                       | 13.20                       | H                     |
|                           | 7564.36              | -55.99          | -13              | -42.99                  | -75.97                  | -59.50                   | 7.85                       | 11.36                       | H                     |
|                           | 3782.18              | -43.95          | -13              | -30.95                  | -58.28                  | -51.24                   | 5.36                       | 12.65                       | V                     |
|                           | 5673.27              | -40.13          | -13              | -27.13                  | -56.66                  | -45.81                   | 7.52                       | 13.20                       | V                     |
|                           | 7564.36              | -53.14          | -13              | -40.14                  | -72.78                  | -56.65                   | 7.85                       | 11.36                       | V                     |

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



| LTE Band 4 / 1.4MHz / QPSK |                      |                 |                  |                         |                         |                          |                            |                             |                       |
|----------------------------|----------------------|-----------------|------------------|-------------------------|-------------------------|--------------------------|----------------------------|-----------------------------|-----------------------|
| Channel                    | Frequency<br>( MHz ) | EIRP<br>( dBm ) | Limit<br>( dBm ) | Over<br>Limit<br>( dB ) | SPA<br>Reading<br>(dBm) | S.G.<br>Power<br>( dBm ) | TX Cable<br>loss<br>( dB ) | TX Antenna<br>Gain<br>(dBi) | Polarization<br>(H/V) |
| Lowest                     | 3420.32              | -59.69          | -13              | -46.69                  | -73.39                  | -67.69                   | 4.58                       | 12.58                       | H                     |
|                            | 5130.48              | -42.06          | -13              | -29.06                  | -59.99                  | -48.52                   | 6.21                       | 12.67                       | H                     |
|                            | 6840.64              | -61.26          | -13              | -48.26                  | -80.88                  | -66.05                   | 8.16                       | 12.95                       | H                     |
|                            | 3420.32              | -59.77          | -13              | -46.77                  | -71.18                  | -67.77                   | 4.58                       | 12.58                       | V                     |
|                            | 5130.48              | -48.72          | -13              | -35.72                  | -62.33                  | -55.18                   | 6.21                       | 12.67                       | V                     |
|                            | 6840.64              | -61.99          | -13              | -48.99                  | -81.11                  | -66.78                   | 8.16                       | 12.95                       | V                     |
| Middle                     | 3463.74              | -58.47          | -13              | -45.47                  | -72.17                  | -66.44                   | 4.63                       | 12.60                       | H                     |
|                            | 5195.61              | -41.81          | -13              | -28.81                  | -59.74                  | -48.26                   | 6.25                       | 12.70                       | H                     |
|                            | 6927.48              | -61.02          | -13              | -48.02                  | -80.64                  | -65.79                   | 8.23                       | 13.00                       | H                     |
|                            | 3463.74              | -55.20          | -13              | -42.20                  | -66.61                  | -63.17                   | 4.63                       | 12.60                       | V                     |
|                            | 5195.61              | -47.55          | -13              | -34.55                  | -61.16                  | -54.00                   | 6.25                       | 12.70                       | V                     |
|                            | 6927.48              | -61.78          | -13              | -48.78                  | -80.90                  | -66.55                   | 8.23                       | 13.00                       | V                     |
| Highest                    | 3507.52              | -57.83          | -13              | -44.83                  | -71.53                  | -65.83                   | 4.66                       | 12.66                       | H                     |
|                            | 5261.28              | -43.43          | -13              | -30.43                  | -61.36                  | -49.87                   | 6.31                       | 12.75                       | H                     |
|                            | 7015.04              | -60.88          | -13              | -47.88                  | -80.50                  | -65.65                   | 8.35                       | 13.12                       | H                     |
|                            | 3507.52              | -58.58          | -13              | -45.58                  | -69.99                  | -66.58                   | 4.66                       | 12.66                       | V                     |
|                            | 5261.28              | -47.41          | -13              | -34.41                  | -61.02                  | -53.85                   | 6.31                       | 12.75                       | V                     |
|                            | 7015.04              | -61.08          | -13              | -48.08                  | -80.2                   | -65.85                   | 8.35                       | 13.12                       | V                     |

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



| LTE Band 4 / 3MHz / QPSK |                      |                 |                  |                         |                         |                          |                            |                             |                       |
|--------------------------|----------------------|-----------------|------------------|-------------------------|-------------------------|--------------------------|----------------------------|-----------------------------|-----------------------|
| Channel                  | Frequency<br>( MHz ) | EIRP<br>( dBm ) | Limit<br>( dBm ) | Over<br>Limit<br>( dB ) | SPA<br>Reading<br>(dBm) | S.G.<br>Power<br>( dBm ) | TX Cable<br>loss<br>( dB ) | TX Antenna<br>Gain<br>(dBi) | Polarization<br>(H/V) |
| Lowest                   | 3420.48              | -58.89          | -13              | -45.89                  | -72.59                  | -66.89                   | 4.58                       | 12.58                       | H                     |
|                          | 5130.72              | -41.91          | -13              | -28.91                  | -59.84                  | -48.37                   | 6.21                       | 12.67                       | H                     |
|                          | 6840.96              | -62.03          | -13              | -49.03                  | -81.65                  | -66.82                   | 8.16                       | 12.95                       | H                     |
|                          | 3420.48              | -59.55          | -13              | -46.55                  | -70.96                  | -67.55                   | 4.58                       | 12.58                       | V                     |
|                          | 5130.72              | -47.73          | -13              | -34.73                  | -61.34                  | -54.19                   | 6.21                       | 12.67                       | V                     |
|                          | 6840.96              | -62.31          | -13              | -49.31                  | -81.43                  | -67.10                   | 8.16                       | 12.95                       | V                     |
| Middle                   | 3462.48              | -57.80          | -13              | -44.80                  | -71.50                  | -65.77                   | 4.63                       | 12.60                       | H                     |
|                          | 5193.72              | -41.70          | -13              | -28.70                  | -59.63                  | -48.15                   | 6.25                       | 12.70                       | H                     |
|                          | 6924.96              | -61.46          | -13              | -48.46                  | -81.08                  | -66.23                   | 8.23                       | 13.00                       | H                     |
|                          | 3462.48              | -56.66          | -13              | -43.66                  | -68.07                  | -64.63                   | 4.63                       | 12.60                       | V                     |
|                          | 5193.72              | -46.72          | -13              | -33.72                  | -60.39                  | -53.17                   | 6.25                       | 12.70                       | V                     |
|                          | 6924.96              | -61.45          | -13              | -48.45                  | -80.57                  | -66.22                   | 8.23                       | 13.00                       | V                     |
| Highest                  | 3504.48              | -58.91          | -13              | -45.91                  | -72.61                  | -66.91                   | 4.66                       | 12.66                       | H                     |
|                          | 5256.72              | -42.67          | -13              | -29.67                  | -60.60                  | -49.11                   | 6.31                       | 12.75                       | H                     |
|                          | 7008.96              | -61.12          | -13              | -48.12                  | -80.74                  | -65.89                   | 8.35                       | 13.12                       | H                     |
|                          | 3504.48              | -57.89          | -13              | -44.89                  | -69.3                   | -65.89                   | 4.66                       | 12.66                       | V                     |
|                          | 5256.72              | -44.18          | -13              | -31.18                  | -59.02                  | -50.62                   | 6.31                       | 12.75                       | V                     |
|                          | 7008.96              | -60.79          | -13              | -47.79                  | -79.91                  | -65.56                   | 8.35                       | 13.12                       | V                     |

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



| LTE Band 4 / 5MHz / QPSK |                      |                 |                  |                         |                         |                          |                            |                             |                       |
|--------------------------|----------------------|-----------------|------------------|-------------------------|-------------------------|--------------------------|----------------------------|-----------------------------|-----------------------|
| Channel                  | Frequency<br>( MHz ) | EIRP<br>( dBm ) | Limit<br>( dBm ) | Over<br>Limit<br>( dB ) | SPA<br>Reading<br>(dBm) | S.G.<br>Power<br>( dBm ) | TX Cable<br>loss<br>( dB ) | TX Antenna<br>Gain<br>(dBi) | Polarization<br>(H/V) |
| Lowest                   | 3420.68              | -57.78          | -13              | -44.78                  | -71.48                  | -65.78                   | 4.58                       | 12.58                       | H                     |
|                          | 5131.02              | -42.67          | -13              | -29.67                  | -60.60                  | -49.13                   | 6.21                       | 12.67                       | H                     |
|                          | 6841.36              | -61.73          | -13              | -48.73                  | -81.35                  | -66.52                   | 8.16                       | 12.95                       | H                     |
|                          | 3420.68              | -56.10          | -13              | -43.10                  | -67.51                  | -64.10                   | 4.58                       | 12.58                       | V                     |
|                          | 5131.02              | -49.77          | -13              | -36.77                  | -63.38                  | -56.23                   | 6.21                       | 12.67                       | V                     |
|                          | 6841.36              | -62.00          | -13              | -49.00                  | -81.12                  | -66.79                   | 8.16                       | 12.95                       | V                     |
| Middle                   | 3460.68              | -55.44          | -13              | -42.44                  | -69.14                  | -63.41                   | 4.63                       | 12.60                       | H                     |
|                          | 5191.02              | -42.16          | -13              | -29.16                  | -60.09                  | -48.61                   | 6.25                       | 12.70                       | H                     |
|                          | 6921.36              | -60.77          | -13              | -47.77                  | -80.39                  | -65.54                   | 8.23                       | 13.00                       | H                     |
|                          | 3460.68              | -55.60          | -13              | -42.60                  | -67.01                  | -63.57                   | 4.63                       | 12.60                       | V                     |
|                          | 5191.02              | -47.66          | -13              | -34.66                  | -61.27                  | -54.11                   | 6.25                       | 12.70                       | V                     |
|                          | 6921.36              | -61.21          | -13              | -48.21                  | -80.33                  | -65.98                   | 8.23                       | 13.00                       | V                     |
| Highest                  | 3500.68              | -57.97          | -13              | -44.97                  | -71.67                  | -65.97                   | 4.66                       | 12.66                       | H                     |
|                          | 5251.02              | -43.90          | -13              | -30.90                  | -61.83                  | -50.34                   | 6.31                       | 12.75                       | H                     |
|                          | 7001.36              | -60.73          | -13              | -47.73                  | -80.35                  | -65.50                   | 8.35                       | 13.12                       | H                     |
|                          | 3500.68              | -56.90          | -13              | -43.90                  | -68.31                  | -64.90                   | 4.66                       | 12.66                       | V                     |
|                          | 5251.02              | -48.78          | -13              | -35.78                  | -62.39                  | -55.22                   | 6.31                       | 12.75                       | V                     |
|                          | 7001.36              | -59.90          | -13              | -46.90                  | -79.02                  | -64.67                   | 8.35                       | 13.12                       | V                     |

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



| LTE Band 4 / 10MHz / QPSK |                      |                 |                  |                         |                         |                          |                            |                             |                       |
|---------------------------|----------------------|-----------------|------------------|-------------------------|-------------------------|--------------------------|----------------------------|-----------------------------|-----------------------|
| Channel                   | Frequency<br>( MHz ) | EIRP<br>( dBm ) | Limit<br>( dBm ) | Over<br>Limit<br>( dB ) | SPA<br>Reading<br>(dBm) | S.G.<br>Power<br>( dBm ) | TX Cable<br>loss<br>( dB ) | TX Antenna<br>Gain<br>(dBi) | Polarization<br>(H/V) |
| Lowest                    | 3421.18              | -57.20          | -13              | -44.20                  | -70.90                  | -65.20                   | 4.58                       | 12.58                       | H                     |
|                           | 5131.77              | -44.95          | -13              | -31.95                  | -62.88                  | -51.41                   | 6.21                       | 12.67                       | H                     |
|                           | 6842.36              | -61.73          | -13              | -48.73                  | -81.35                  | -66.52                   | 8.16                       | 12.95                       | H                     |
|                           | 3421.18              | -57.53          | -13              | -44.53                  | -68.94                  | -65.53                   | 4.58                       | 12.58                       | V                     |
|                           | 5131.77              | -50.37          | -13              | -37.37                  | -63.98                  | -56.83                   | 6.21                       | 12.67                       | V                     |
|                           | 6842.36              | -61.94          | -13              | -48.94                  | -81.06                  | -66.73                   | 8.16                       | 12.95                       | V                     |
| Middle                    | 3456.18              | -54.15          | -13              | -41.15                  | -67.85                  | -62.12                   | 4.63                       | 12.60                       | H                     |
|                           | 5184.27              | -36.87          | -13              | -23.87                  | -54.90                  | -43.32                   | 6.25                       | 12.70                       | H                     |
|                           | 6912.36              | -59.58          | -13              | -46.58                  | -79.20                  | -64.35                   | 8.23                       | 13.00                       | H                     |
|                           | 3456.18              | -53.01          | -13              | -40.01                  | -64.42                  | -60.98                   | 4.63                       | 12.60                       | V                     |
|                           | 5184.27              | -38.23          | -13              | -25.23                  | -54.9                   | -44.68                   | 6.25                       | 12.70                       | V                     |
|                           | 6912.36              | -59.91          | -13              | -46.91                  | -79.03                  | -64.68                   | 8.23                       | 13.00                       | V                     |
| Highest                   | 3491.18              | -55.39          | -13              | -42.39                  | -69.09                  | -63.39                   | 4.66                       | 12.66                       | H                     |
|                           | 5236.77              | -38.85          | -13              | -25.85                  | -56.78                  | -45.29                   | 6.31                       | 12.75                       | H                     |
|                           | 6982.36              | -59.97          | -13              | -46.97                  | -79.59                  | -64.74                   | 8.35                       | 13.12                       | H                     |
|                           | 3491.18              | -54.79          | -13              | -41.79                  | -66.2                   | -62.79                   | 4.66                       | 12.66                       | V                     |
|                           | 5236.77              | -47.90          | -13              | -34.90                  | -61.51                  | -54.34                   | 6.31                       | 12.75                       | V                     |
|                           | 6982.36              | -59.47          | -13              | -46.47                  | -78.59                  | -64.24                   | 8.35                       | 13.12                       | V                     |

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



| LTE Band 4 / 15MHz / QPSK |                      |                 |                  |                         |                         |                          |                            |                             |                       |
|---------------------------|----------------------|-----------------|------------------|-------------------------|-------------------------|--------------------------|----------------------------|-----------------------------|-----------------------|
| Channel                   | Frequency<br>( MHz ) | EIRP<br>( dBm ) | Limit<br>( dBm ) | Over<br>Limit<br>( dB ) | SPA<br>Reading<br>(dBm) | S.G.<br>Power<br>( dBm ) | TX Cable<br>loss<br>( dB ) | TX Antenna<br>Gain<br>(dBi) | Polarization<br>(H/V) |
| Lowest                    | 3421.68              | -60.22          | -13              | -47.22                  | -73.92                  | -68.22                   | 4.58                       | 12.58                       | H                     |
|                           | 5132.52              | -42.79          | -13              | -29.79                  | -60.72                  | -49.25                   | 6.21                       | 12.67                       | H                     |
|                           | 6843.36              | -61.81          | -13              | -48.81                  | -81.43                  | -66.60                   | 8.16                       | 12.95                       | H                     |
|                           | 3421.68              | -57.45          | -13              | -44.45                  | -68.86                  | -65.45                   | 4.58                       | 12.58                       | V                     |
|                           | 5132.52              | -46.86          | -13              | -33.86                  | -60.5                   | -53.32                   | 6.21                       | 12.67                       | V                     |
|                           | 6843.36              | -62.29          | -13              | -49.29                  | -81.41                  | -67.08                   | 8.16                       | 12.95                       | V                     |
| Middle                    | 3451.68              | -57.63          | -13              | -44.63                  | -71.33                  | -65.60                   | 4.63                       | 12.60                       | H                     |
|                           | 5177.52              | -41.56          | -13              | -28.56                  | -59.49                  | -48.01                   | 6.25                       | 12.70                       | H                     |
|                           | 6903.36              | -61.72          | -13              | -48.72                  | -81.34                  | -66.49                   | 8.23                       | 13.00                       | H                     |
|                           | 3451.68              | -54.73          | -13              | -41.73                  | -66.14                  | -62.70                   | 4.63                       | 12.60                       | V                     |
|                           | 5177.52              | -50.38          | -13              | -37.38                  | -63.99                  | -56.83                   | 6.25                       | 12.70                       | V                     |
|                           | 6903.36              | -62.08          | -13              | -49.08                  | -81.2                   | -66.85                   | 8.23                       | 13.00                       | V                     |
| Highest                   | 3481.68              | -59.02          | -13              | -46.02                  | -72.72                  | -67.02                   | 4.66                       | 12.66                       | H                     |
|                           | 5222.52              | -43.70          | -13              | -30.70                  | -61.63                  | -50.14                   | 6.31                       | 12.75                       | H                     |
|                           | 6963.36              | -61.24          | -13              | -48.24                  | -80.86                  | -66.01                   | 8.35                       | 13.12                       | H                     |
|                           | 3481.68              | -55.14          | -13              | -42.14                  | -66.55                  | -63.14                   | 4.66                       | 12.66                       | V                     |
|                           | 5222.52              | -47.81          | -13              | -34.81                  | -61.42                  | -54.25                   | 6.31                       | 12.75                       | V                     |
|                           | 6963.36              | -60.55          | -13              | -47.55                  | -79.67                  | -65.32                   | 8.35                       | 13.12                       | V                     |

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



| LTE Band 4 / 20MHz / QPSK |                      |                 |                  |                         |                         |                          |                            |                             |                       |
|---------------------------|----------------------|-----------------|------------------|-------------------------|-------------------------|--------------------------|----------------------------|-----------------------------|-----------------------|
| Channel                   | Frequency<br>( MHz ) | EIRP<br>( dBm ) | Limit<br>( dBm ) | Over<br>Limit<br>( dB ) | SPA<br>Reading<br>(dBm) | S.G.<br>Power<br>( dBm ) | TX Cable<br>loss<br>( dB ) | TX Antenna<br>Gain<br>(dBi) | Polarization<br>(H/V) |
| Lowest                    | 3422.18              | -59.07          | -13              | -46.07                  | -72.77                  | -67.07                   | 4.58                       | 12.58                       | H                     |
|                           | 5133.27              | -43.57          | -13              | -30.57                  | -61.50                  | -50.03                   | 6.21                       | 12.67                       | H                     |
|                           | 6844.36              | -61.79          | -13              | -48.79                  | -81.41                  | -66.58                   | 8.16                       | 12.95                       | H                     |
|                           | 3422.18              | -56.90          | -13              | -43.90                  | -68.31                  | -64.90                   | 4.58                       | 12.58                       | V                     |
|                           | 5133.27              | -47.43          | -13              | -34.43                  | -61.04                  | -53.89                   | 6.21                       | 12.67                       | V                     |
|                           | 6844.36              | -62.21          | -13              | -49.21                  | -81.33                  | -67.00                   | 8.16                       | 12.95                       | V                     |
| Middle                    | 3447.18              | -57.78          | -13              | -44.78                  | -71.48                  | -65.75                   | 4.63                       | 12.60                       | H                     |
|                           | 5170.77              | -41.74          | -13              | -28.74                  | -59.67                  | -48.19                   | 6.25                       | 12.70                       | H                     |
|                           | 6894.36              | -61.30          | -13              | -48.30                  | -80.92                  | -66.07                   | 8.23                       | 13.00                       | H                     |
|                           | 3447.18              | -56.05          | -13              | -43.05                  | -67.46                  | -64.02                   | 4.63                       | 12.60                       | V                     |
|                           | 5170.77              | -50.27          | -13              | -37.27                  | -63.88                  | -56.72                   | 6.25                       | 12.70                       | V                     |
|                           | 6894.36              | -62.03          | -13              | -49.03                  | -81.15                  | -66.80                   | 8.23                       | 13.00                       | V                     |
| Highest                   | 3472.18              | -60.46          | -13              | -47.46                  | -74.16                  | -68.46                   | 4.66                       | 12.66                       | H                     |
|                           | 5208.27              | -44.25          | -13              | -31.25                  | -62.18                  | -50.69                   | 6.31                       | 12.75                       | H                     |
|                           | 6944.36              | -60.63          | -13              | -47.63                  | -80.25                  | -65.40                   | 8.35                       | 13.12                       | H                     |
|                           | 3472.18              | -55.71          | -13              | -42.71                  | -67.12                  | -63.71                   | 4.66                       | 12.66                       | V                     |
|                           | 5208.27              | -48.28          | -13              | -35.28                  | -61.89                  | -54.72                   | 6.31                       | 12.75                       | V                     |
|                           | 6944.36              | -61.62          | -13              | -48.62                  | -80.74                  | -66.39                   | 8.35                       | 13.12                       | V                     |

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



| LTE Band 5 / 1.4MHz / QPSK |                      |                |                  |                         |                         |                          |                            |                             |                       |
|----------------------------|----------------------|----------------|------------------|-------------------------|-------------------------|--------------------------|----------------------------|-----------------------------|-----------------------|
| Channel                    | Frequency<br>( MHz ) | ERP<br>( dBm ) | Limit<br>( dBm ) | Over<br>Limit<br>( dB ) | SPA<br>Reading<br>(dBm) | S.G.<br>Power<br>( dBm ) | TX Cable<br>loss<br>( dB ) | TX Antenna<br>Gain<br>(dBi) | Polarization<br>(H/V) |
| Lowest                     | 1649.92              | -72.06         | -13              | -59.06                  | -73.77                  | -76.53                   | 2.76                       | 9.38                        | H                     |
|                            | 2474.88              | -74.25         | -13              | -61.25                  | -80.31                  | -79.22                   | 3.45                       | 10.57                       | H                     |
|                            | 3299.84              | -69.32         | -13              | -56.32                  | -77.32                  | -75.17                   | 4.58                       | 12.58                       | H                     |
|                            | 1649.92              | -71.86         | -13              | -58.86                  | -73.70                  | -76.33                   | 2.76                       | 9.38                        | V                     |
|                            | 2474.88              | -74.41         | -13              | -61.41                  | -80.36                  | -79.38                   | 3.45                       | 10.57                       | V                     |
|                            | 3299.84              | -69.17         | -13              | -56.17                  | -77.20                  | -75.02                   | 4.58                       | 12.58                       | V                     |
| Middle                     | 1671.92              | -72.82         | -13              | -59.82                  | -74.53                  | -77.19                   | 2.88                       | 9.40                        | H                     |
|                            | 2507.88              | -74.18         | -13              | -61.18                  | -80.24                  | -79.13                   | 3.50                       | 10.60                       | H                     |
|                            | 3343.84              | -69.51         | -13              | -56.51                  | -77.51                  | -75.33                   | 4.63                       | 12.60                       | H                     |
|                            | 1671.92              | -72.34         | -13              | -59.34                  | -74.18                  | -76.71                   | 2.88                       | 9.40                        | V                     |
|                            | 2507.88              | -74.34         | -13              | -61.34                  | -80.29                  | -79.29                   | 3.50                       | 10.60                       | V                     |
|                            | 3343.84              | -69.05         | -13              | -56.05                  | -77.08                  | -74.87                   | 4.63                       | 12.60                       | V                     |
| Highest                    | 1695.52              | -72.84         | -13              | -59.84                  | -74.55                  | -77.19                   | 2.92                       | 9.42                        | H                     |
|                            | 2543.28              | -73.63         | -13              | -60.63                  | -79.69                  | -78.48                   | 3.63                       | 10.63                       | H                     |
|                            | 3391.04              | -69.53         | -13              | -56.53                  | -77.53                  | -75.28                   | 4.74                       | 12.64                       | H                     |
|                            | 1695.52              | -72.82         | -13              | -59.82                  | -74.66                  | -77.17                   | 2.92                       | 9.42                        | V                     |
|                            | 2543.28              | -73.75         | -13              | -60.75                  | -79.70                  | -78.60                   | 3.63                       | 10.63                       | V                     |
|                            | 3391.04              | -69.40         | -13              | -56.40                  | -77.43                  | -73.15                   | 4.74                       | 10.64                       | V                     |

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



| LTE Band 5 / 3MHz / QPSK |                      |                |                  |                         |                         |                          |                            |                             |                       |
|--------------------------|----------------------|----------------|------------------|-------------------------|-------------------------|--------------------------|----------------------------|-----------------------------|-----------------------|
| Channel                  | Frequency<br>( MHz ) | ERP<br>( dBm ) | Limit<br>( dBm ) | Over<br>Limit<br>( dB ) | SPA<br>Reading<br>(dBm) | S.G.<br>Power<br>( dBm ) | TX Cable<br>loss<br>( dB ) | TX Antenna<br>Gain<br>(dBi) | Polarization<br>(H/V) |
| Lowest                   | 1648.48              | -71.82         | -13              | -58.82                  | -73.53                  | -76.29                   | 2.76                       | 9.38                        | H                     |
|                          | 2472.72              | -74.61         | -13              | -61.61                  | -80.67                  | -79.58                   | 3.45                       | 10.57                       | H                     |
|                          | 3296.96              | -69.38         | -13              | -56.38                  | -77.38                  | -75.23                   | 4.58                       | 12.58                       | H                     |
|                          | 1648.48              | -71.85         | -13              | -58.85                  | -73.69                  | -76.32                   | 2.76                       | 9.38                        | V                     |
|                          | 2472.72              | -74.74         | -13              | -61.74                  | -80.69                  | -79.71                   | 3.45                       | 10.57                       | V                     |
|                          | 3296.96              | -68.97         | -13              | -55.97                  | -77.00                  | -74.82                   | 4.58                       | 12.58                       | V                     |
| Middle                   | 1670.48              | -72.45         | -13              | -59.45                  | -74.16                  | -76.82                   | 2.88                       | 9.40                        | H                     |
|                          | 2505.72              | -74.01         | -13              | -61.01                  | -80.07                  | -78.96                   | 3.50                       | 10.60                       | H                     |
|                          | 3340.96              | -69.49         | -13              | -56.49                  | -77.49                  | -75.31                   | 4.63                       | 12.60                       | H                     |
|                          | 1670.48              | -72.15         | -13              | -59.15                  | -73.99                  | -76.52                   | 2.88                       | 9.40                        | V                     |
|                          | 2505.72              | -74.15         | -13              | -61.15                  | -80.10                  | -79.10                   | 3.50                       | 10.60                       | V                     |
|                          | 3340.96              | -69.01         | -13              | -56.01                  | -77.04                  | -74.83                   | 4.63                       | 12.60                       | V                     |
| Highest                  | 1692.48              | -72.98         | -13              | -59.98                  | -74.69                  | -77.33                   | 2.92                       | 9.42                        | H                     |
|                          | 2538.72              | -74.08         | -13              | -61.08                  | -80.14                  | -78.93                   | 3.63                       | 10.63                       | H                     |
|                          | 3384.96              | -69.41         | -13              | -56.41                  | -77.41                  | -75.16                   | 4.74                       | 12.64                       | H                     |
|                          | 1692.48              | -72.89         | -13              | -59.89                  | -74.73                  | -77.24                   | 2.92                       | 9.42                        | V                     |
|                          | 2538.72              | -74.19         | -13              | -61.19                  | -80.14                  | -79.04                   | 3.63                       | 10.63                       | V                     |
|                          | 3384.96              | -69.32         | -13              | -56.32                  | -77.35                  | -73.07                   | 4.74                       | 10.64                       | V                     |

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



| LTE Band 5 / 5MHz / QPSK |                      |                |                  |                         |                         |                          |                            |                             |                       |
|--------------------------|----------------------|----------------|------------------|-------------------------|-------------------------|--------------------------|----------------------------|-----------------------------|-----------------------|
| Channel                  | Frequency<br>( MHz ) | ERP<br>( dBm ) | Limit<br>( dBm ) | Over<br>Limit<br>( dB ) | SPA<br>Reading<br>(dBm) | S.G.<br>Power<br>( dBm ) | TX Cable<br>loss<br>( dB ) | TX Antenna<br>Gain<br>(dBi) | Polarization<br>(H/V) |
| Lowest                   | 1648.68              | -71.92         | -13              | -58.92                  | -73.63                  | -76.39                   | 2.76                       | 9.38                        | H                     |
|                          | 2473.02              | -74.60         | -13              | -61.60                  | -80.66                  | -79.57                   | 3.45                       | 10.57                       | H                     |
|                          | 3297.36              | -69.30         | -13              | -56.30                  | -77.30                  | -75.15                   | 4.58                       | 12.58                       | H                     |
|                          | 1648.68              | -71.62         | -13              | -58.62                  | -73.46                  | -76.09                   | 2.76                       | 9.38                        | V                     |
|                          | 2473.02              | -74.72         | -13              | -61.72                  | -80.67                  | -79.69                   | 3.45                       | 10.57                       | V                     |
|                          | 3297.36              | -68.91         | -13              | -55.91                  | -76.94                  | -74.76                   | 4.58                       | 12.58                       | V                     |
| Middle                   | 1668.68              | -72.56         | -13              | -59.56                  | -74.27                  | -76.93                   | 2.88                       | 9.40                        | H                     |
|                          | 2503.02              | -74.44         | -13              | -61.44                  | -80.50                  | -79.39                   | 3.50                       | 10.60                       | H                     |
|                          | 3337.36              | -69.34         | -13              | -56.34                  | -77.34                  | -75.16                   | 4.63                       | 12.60                       | H                     |
|                          | 1668.68              | -72.06         | -13              | -59.06                  | -73.90                  | -76.43                   | 2.88                       | 9.40                        | V                     |
|                          | 2503.02              | -74.11         | -13              | -61.11                  | -80.06                  | -79.06                   | 3.50                       | 10.60                       | V                     |
|                          | 3337.36              | -68.92         | -13              | -55.92                  | -76.95                  | -74.74                   | 4.63                       | 12.60                       | V                     |
| Highest                  | 1688.68              | -72.71         | -13              | -59.71                  | -74.42                  | -77.06                   | 2.92                       | 9.42                        | H                     |
|                          | 2533.02              | -74.28         | -13              | -61.28                  | -80.34                  | -79.13                   | 3.63                       | 10.63                       | H                     |
|                          | 3377.36              | -69.68         | -13              | -56.68                  | -77.68                  | -75.43                   | 4.74                       | 12.64                       | H                     |
|                          | 1688.68              | -72.64         | -13              | -59.64                  | -74.48                  | -76.99                   | 2.92                       | 9.42                        | V                     |
|                          | 2533.02              | -74.46         | -13              | -61.46                  | -80.41                  | -79.31                   | 3.63                       | 10.63                       | V                     |
|                          | 3377.36              | -69.59         | -13              | -56.59                  | -77.62                  | -73.34                   | 4.74                       | 10.64                       | V                     |

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



| LTE Band 5 / 10MHz / QPSK |                      |                |                  |                         |                         |                          |                            |                             |                       |
|---------------------------|----------------------|----------------|------------------|-------------------------|-------------------------|--------------------------|----------------------------|-----------------------------|-----------------------|
| Channel                   | Frequency<br>( MHz ) | ERP<br>( dBm ) | Limit<br>( dBm ) | Over<br>Limit<br>( dB ) | SPA<br>Reading<br>(dBm) | S.G.<br>Power<br>( dBm ) | TX Cable<br>loss<br>( dB ) | TX Antenna<br>Gain<br>(dBi) | Polarization<br>(H/V) |
| Lowest                    | 1649.18              | -72.65         | -13              | -59.65                  | -74.36                  | -77.12                   | 2.76                       | 9.38                        | H                     |
|                           | 2473.77              | -75.13         | -13              | -62.13                  | -81.19                  | -80.10                   | 3.45                       | 10.57                       | H                     |
|                           | 3298.36              | -69.79         | -13              | -56.79                  | -77.79                  | -75.64                   | 4.58                       | 12.58                       | H                     |
|                           | 1649.18              | -72.21         | -13              | -59.21                  | -74.05                  | -76.68                   | 2.76                       | 9.38                        | V                     |
|                           | 2473.77              | -75.35         | -13              | -62.35                  | -81.30                  | -80.32                   | 3.45                       | 10.57                       | V                     |
|                           | 3298.36              | -69.54         | -13              | -56.54                  | -77.57                  | -75.39                   | 4.58                       | 12.58                       | V                     |
| Middle                    | 1664.08              | -61.35         | -13              | -48.35                  | -63.06                  | -65.72                   | 2.88                       | 9.40                        | H                     |
|                           | 2496.27              | -69.87         | -13              | -56.87                  | -75.93                  | -74.82                   | 3.50                       | 10.60                       | H                     |
|                           | 3328.36              | -70.09         | -13              | -57.09                  | -78.09                  | -75.91                   | 4.63                       | 12.60                       | H                     |
|                           | 1664.08              | -60.72         | -13              | -47.72                  | -62.56                  | -65.09                   | 2.88                       | 9.40                        | V                     |
|                           | 2496.27              | -69.21         | -13              | -56.21                  | -75.16                  | -74.16                   | 3.50                       | 10.60                       | V                     |
|                           | 3328.36              | -69.93         | -13              | -56.93                  | -77.96                  | -75.75                   | 4.63                       | 12.60                       | V                     |
| Highest                   | 1679.18              | -73.52         | -13              | -60.52                  | -75.23                  | -77.87                   | 2.92                       | 9.42                        | H                     |
|                           | 2518.77              | -75.08         | -13              | -62.08                  | -81.14                  | -79.93                   | 3.63                       | 10.63                       | H                     |
|                           | 3358.36              | -70.15         | -13              | -57.15                  | -78.15                  | -75.90                   | 4.74                       | 12.64                       | H                     |
|                           | 1679.18              | -72.71         | -13              | -59.71                  | -74.55                  | -77.06                   | 2.92                       | 9.42                        | V                     |
|                           | 2518.77              | -75.14         | -13              | -62.14                  | -81.09                  | -79.99                   | 3.63                       | 10.63                       | V                     |
|                           | 3358.36              | -70.05         | -13              | -57.05                  | -78.08                  | -73.80                   | 4.74                       | 10.64                       | V                     |

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



| LTE Band 12 / 1.4MHz / QPSK |                      |                |                  |                         |                         |                          |                            |                             |                       |
|-----------------------------|----------------------|----------------|------------------|-------------------------|-------------------------|--------------------------|----------------------------|-----------------------------|-----------------------|
| Channel                     | Frequency<br>( MHz ) | ERP<br>( dBm ) | Limit<br>( dBm ) | Over<br>Limit<br>( dB ) | SPA<br>Reading<br>(dBm) | S.G.<br>Power<br>( dBm ) | TX Cable<br>loss<br>( dB ) | TX Antenna<br>Gain<br>(dBi) | Polarization<br>(H/V) |
| Lowest                      | 1399.4               | -69.13         | -13              | -56.13                  | -72.53                  | -72.03                   | 2.85                       | 7.90                        | H                     |
|                             | 2099.1               | -71.42         | -13              | -58.42                  | -77.62                  | -76.36                   | 3.21                       | 10.30                       | H                     |
|                             | 2798.2               | -69.17         | -13              | -56.17                  | -77.66                  | -74.57                   | 3.85                       | 11.40                       | H                     |
|                             | 1399.4               | -69.51         | -13              | -56.51                  | -72.95                  | -72.41                   | 2.85                       | 7.90                        | V                     |
|                             | 2099.1               | -73.22         | -13              | -60.22                  | -77.61                  | -78.16                   | 3.21                       | 10.30                       | V                     |
|                             | 2798.2               | -70.30         | -13              | -57.30                  | -77.67                  | -75.70                   | 3.85                       | 11.40                       | V                     |
| Middle                      | 1413.74              | -69.43         | -13              | -56.43                  | -72.83                  | -72.40                   | 2.88                       | 8.00                        | H                     |
|                             | 2120.61              | -71.54         | -13              | -58.54                  | -77.74                  | -76.54                   | 3.25                       | 10.40                       | H                     |
|                             | 2827.48              | -69.53         | -13              | -56.53                  | -78.02                  | -75.01                   | 3.87                       | 11.50                       | H                     |
|                             | 1413.74              | -69.67         | -13              | -56.67                  | -73.11                  | -72.64                   | 2.88                       | 8.00                        | V                     |
|                             | 2120.61              | -73.43         | -13              | -60.43                  | -77.82                  | -78.43                   | 3.25                       | 10.40                       | V                     |
|                             | 2827.48              | -70.64         | -13              | -57.64                  | -78.01                  | -76.12                   | 3.87                       | 11.50                       | V                     |
| Highest                     | 1430.6               | -69.15         | -13              | -56.15                  | -72.55                  | -72.19                   | 2.91                       | 8.10                        | H                     |
|                             | 2145.9               | -71.60         | -13              | -58.60                  | -77.80                  | -76.61                   | 3.28                       | 10.44                       | H                     |
|                             | 2861.2               | -69.18         | -13              | -56.18                  | -77.67                  | -74.74                   | 3.89                       | 11.60                       | H                     |
|                             | 1430.6               | -69.41         | -13              | -56.41                  | -72.85                  | -72.45                   | 2.91                       | 8.10                        | V                     |
|                             | 2145.9               | -73.51         | -13              | -60.51                  | -77.90                  | -78.52                   | 3.28                       | 10.44                       | V                     |
|                             | 2861.2               | -70.48         | -13              | -57.48                  | -77.85                  | -76.04                   | 3.89                       | 11.60                       | V                     |

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



| LTE Band 12 / 3MHz / QPSK |                      |                |                  |                         |                         |                          |                            |                             |                       |
|---------------------------|----------------------|----------------|------------------|-------------------------|-------------------------|--------------------------|----------------------------|-----------------------------|-----------------------|
| Channel                   | Frequency<br>( MHz ) | ERP<br>( dBm ) | Limit<br>( dBm ) | Over<br>Limit<br>( dB ) | SPA<br>Reading<br>(dBm) | S.G.<br>Power<br>( dBm ) | TX Cable<br>loss<br>( dB ) | TX Antenna<br>Gain<br>(dBi) | Polarization<br>(H/V) |
| Lowest                    | 1401                 | -69.19         | -13              | -56.19                  | -72.59                  | -72.09                   | 2.85                       | 7.90                        | H                     |
|                           | 2101.5               | -71.40         | -13              | -58.40                  | -77.60                  | -76.34                   | 3.21                       | 10.30                       | H                     |
|                           | 2802                 | -69.50         | -13              | -56.50                  | -77.99                  | -74.90                   | 3.85                       | 11.40                       | H                     |
|                           | 1401                 | -69.69         | -13              | -56.69                  | -73.13                  | -72.59                   | 2.85                       | 7.90                        | V                     |
|                           | 2101.5               | -73.22         | -13              | -60.22                  | -77.61                  | -78.16                   | 3.21                       | 10.30                       | V                     |
|                           | 2802                 | -70.61         | -13              | -57.61                  | -77.98                  | -76.01                   | 3.85                       | 11.40                       | V                     |
| Middle                    | 1412.3               | -69.27         | -13              | -56.27                  | -72.67                  | -72.24                   | 2.88                       | 8.00                        | H                     |
|                           | 2118.45              | -71.71         | -13              | -58.71                  | -77.91                  | -76.71                   | 3.25                       | 10.40                       | H                     |
|                           | 2824.6               | -69.41         | -13              | -56.41                  | -77.90                  | -74.89                   | 3.87                       | 11.50                       | H                     |
|                           | 1412.3               | -69.50         | -13              | -56.50                  | -72.94                  | -72.47                   | 2.88                       | 8.00                        | V                     |
|                           | 2118.45              | -73.52         | -13              | -60.52                  | -77.91                  | -78.52                   | 3.25                       | 10.40                       | V                     |
|                           | 2824.6               | -70.71         | -13              | -57.71                  | -78.08                  | -76.19                   | 3.87                       | 11.50                       | V                     |
| Highest                   | 1429                 | -68.89         | -13              | -55.89                  | -72.29                  | -71.93                   | 2.91                       | 8.10                        | H                     |
|                           | 2143.5               | -71.73         | -13              | -58.73                  | -77.93                  | -76.74                   | 3.28                       | 10.44                       | H                     |
|                           | 2858                 | -69.26         | -13              | -56.26                  | -77.75                  | -74.82                   | 3.89                       | 11.60                       | H                     |
|                           | 1429                 | -69.31         | -13              | -56.31                  | -72.75                  | -72.35                   | 2.91                       | 8.10                        | V                     |
|                           | 2143.5               | -73.36         | -13              | -60.36                  | -77.75                  | -78.37                   | 3.28                       | 10.44                       | V                     |
|                           | 2858                 | -70.44         | -13              | -57.44                  | -77.81                  | -76.00                   | 3.89                       | 11.60                       | V                     |

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



| LTE Band 12 / 5MHz / QPSK |                      |                |                  |                         |                         |                          |                            |                             |                       |
|---------------------------|----------------------|----------------|------------------|-------------------------|-------------------------|--------------------------|----------------------------|-----------------------------|-----------------------|
| Channel                   | Frequency<br>( MHz ) | ERP<br>( dBm ) | Limit<br>( dBm ) | Over<br>Limit<br>( dB ) | SPA<br>Reading<br>(dBm) | S.G.<br>Power<br>( dBm ) | TX Cable<br>loss<br>( dB ) | TX Antenna<br>Gain<br>(dBi) | Polarization<br>(H/V) |
| Lowest                    | 1398.5               | -69.15         | -13              | -56.15                  | -72.55                  | -72.05                   | 2.85                       | 7.90                        | H                     |
|                           | 2097.75              | -71.38         | -13              | -58.38                  | -77.58                  | -76.32                   | 3.21                       | 10.30                       | H                     |
|                           | 2797                 | -69.59         | -13              | -56.59                  | -78.08                  | -74.99                   | 3.85                       | 11.40                       | H                     |
|                           | 1398.5               | -69.50         | -13              | -56.50                  | -72.94                  | -72.40                   | 2.85                       | 7.90                        | V                     |
|                           | 2097.75              | -73.33         | -13              | -60.33                  | -77.72                  | -78.27                   | 3.21                       | 10.30                       | V                     |
|                           | 2797                 | -70.91         | -13              | -57.91                  | -78.28                  | -76.31                   | 3.85                       | 11.40                       | V                     |
| Middle                    | 1410.5               | -68.60         | -13              | -55.60                  | -72.00                  | -71.57                   | 2.88                       | 8.00                        | H                     |
|                           | 2115.75              | -71.53         | -13              | -58.53                  | -77.73                  | -76.53                   | 3.25                       | 10.40                       | H                     |
|                           | 2821                 | -69.56         | -13              | -56.56                  | -78.05                  | -75.04                   | 3.87                       | 11.50                       | H                     |
|                           | 1410.5               | -69.07         | -13              | -56.07                  | -72.51                  | -72.04                   | 2.88                       | 8.00                        | V                     |
|                           | 2115.75              | -73.32         | -13              | -60.32                  | -77.71                  | -78.32                   | 3.25                       | 10.40                       | V                     |
|                           | 2821                 | -70.69         | -13              | -57.69                  | -78.06                  | -76.17                   | 3.87                       | 11.50                       | V                     |
| Highest                   | 1422.5               | -67.72         | -13              | -54.72                  | -71.12                  | -70.76                   | 2.91                       | 8.10                        | H                     |
|                           | 2133.75              | -71.92         | -13              | -58.92                  | -78.12                  | -76.93                   | 3.28                       | 10.44                       | H                     |
|                           | 2845                 | -69.47         | -13              | -56.47                  | -77.96                  | -75.03                   | 3.89                       | 11.60                       | H                     |
|                           | 1422.5               | -68.33         | -13              | -55.33                  | -71.77                  | -71.37                   | 2.91                       | 8.10                        | V                     |
|                           | 2133.75              | -73.80         | -13              | -60.80                  | -78.19                  | -78.81                   | 3.28                       | 10.44                       | V                     |
|                           | 2845                 | -70.63         | -13              | -57.63                  | -78.00                  | -76.19                   | 3.89                       | 11.60                       | V                     |

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



| LTE Band 12 / 10MHz / QPSK |                      |                |                  |                         |                         |                          |                            |                             |                       |
|----------------------------|----------------------|----------------|------------------|-------------------------|-------------------------|--------------------------|----------------------------|-----------------------------|-----------------------|
| Channel                    | Frequency<br>( MHz ) | ERP<br>( dBm ) | Limit<br>( dBm ) | Over<br>Limit<br>( dB ) | SPA<br>Reading<br>(dBm) | S.G.<br>Power<br>( dBm ) | TX Cable<br>loss<br>( dB ) | TX Antenna<br>Gain<br>(dBi) | Polarization<br>(H/V) |
| Lowest                     | 1399                 | -69.10         | -13              | -56.10                  | -72.50                  | -72.00                   | 2.85                       | 7.90                        | H                     |
|                            | 2098.5               | -71.49         | -13              | -58.49                  | -77.69                  | -76.43                   | 3.21                       | 10.30                       | H                     |
|                            | 2798                 | -69.55         | -13              | -56.55                  | -78.04                  | -74.95                   | 3.85                       | 11.40                       | H                     |
|                            | 1399                 | -69.47         | -13              | -56.47                  | -72.91                  | -72.37                   | 2.85                       | 7.90                        | V                     |
|                            | 2098.5               | -73.31         | -13              | -60.31                  | -77.70                  | -78.25                   | 3.21                       | 10.30                       | V                     |
|                            | 2798                 | -70.93         | -13              | -57.93                  | -78.30                  | -76.33                   | 3.85                       | 11.40                       | V                     |
| Middle                     | 1406                 | -50.54         | -13              | -37.54                  | -54.41                  | -53.51                   | 2.88                       | 8.00                        | H                     |
|                            | 2109                 | -69.86         | -13              | -56.86                  | -76.06                  | -74.86                   | 3.25                       | 10.40                       | H                     |
|                            | 2812                 | -66.28         | -13              | -53.28                  | -74.77                  | -71.76                   | 3.87                       | 11.50                       | H                     |
|                            | 1406                 | -52.95         | -13              | -39.95                  | -57.80                  | -55.92                   | 2.88                       | 8.00                        | V                     |
|                            | 2109                 | -71.99         | -13              | -58.99                  | -76.38                  | -76.99                   | 3.25                       | 10.40                       | V                     |
|                            | 2812                 | -68.52         | -13              | -55.52                  | -75.89                  | -74.00                   | 3.87                       | 11.50                       | V                     |
| Highest                    | 1413                 | -69.62         | -13              | -56.62                  | -73.02                  | -72.66                   | 2.91                       | 8.10                        | H                     |
|                            | 2119.5               | -71.65         | -13              | -58.65                  | -77.85                  | -76.66                   | 3.28                       | 10.44                       | H                     |
|                            | 2826                 | -69.57         | -13              | -56.57                  | -78.06                  | -75.13                   | 3.89                       | 11.60                       | H                     |
|                            | 1413                 | -69.54         | -13              | -56.54                  | -72.98                  | -72.58                   | 2.91                       | 8.10                        | V                     |
|                            | 2119.5               | -73.54         | -13              | -60.54                  | -77.93                  | -78.55                   | 3.28                       | 10.44                       | V                     |
|                            | 2826                 | -70.62         | -13              | -57.62                  | -77.99                  | -76.18                   | 3.89                       | 11.60                       | V                     |

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



| LTE Band 13 / 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                    | 1554.5            | -72.85      | -13           | -59.85            | -74.56            | -77.41             | 2.61                 | 9.32                  | H                  |
|                           | 2331.75           | -74.61      | -13           | -61.61            | -80.67            | -80.61             | 2.33                 | 10.48                 | H                  |
|                           | 3109              | -70.03      | -13           | -57.03            | -78.03            | -75.87             | 4.46                 | 12.45                 | H                  |
|                           | 1554.5            | -72.52      | -13           | -59.52            | -74.36            | -77.08             | 2.61                 | 9.32                  | V                  |
|                           | 2331.75           | -74.73      | -13           | -61.73            | -80.68            | -80.73             | 2.33                 | 10.48                 | V                  |
|                           | 3109              | -69.90      | -13           | -56.90            | -77.93            | -75.74             | 4.46                 | 12.45                 | V                  |
| Middle                    | 1559.5            | -66.50      | -40           | -26.50            | -70.36            | -73.18             | 2.68                 | 9.36                  | H                  |
|                           | 2339.25           | -70.20      | -13           | -57.20            | -76.26            | -76.20             | 2.36                 | 10.51                 | H                  |
|                           | 3119              | -69.55      | -13           | -56.55            | -77.55            | -75.43             | 4.49                 | 12.52                 | H                  |
|                           | 1559.5            | -70.02      | -40           | -30.02            | -74.01            | -76.70             | 2.68                 | 9.36                  | V                  |
|                           | 2339.25           | -70.40      | -13           | -57.40            | -76.35            | -76.40             | 2.36                 | 10.51                 | V                  |
|                           | 3119              | -69.46      | -13           | -56.46            | -77.49            | -75.34             | 4.49                 | 12.52                 | V                  |
| Highest                   | 1564.5            | -70.87      | -40           | -30.87            | -74.73            | -77.55             | 2.71                 | 9.39                  | H                  |
|                           | 2346.75           | -74.81      | -13           | -61.81            | -80.87            | -80.83             | 2.39                 | 10.56                 | H                  |
|                           | 3129              | -70.10      | -13           | -57.10            | -78.10            | -75.97             | 4.53                 | 12.55                 | H                  |
|                           | 1564.5            | -70.68      | -40           | -30.68            | -74.67            | -77.36             | 2.71                 | 9.39                  | V                  |
|                           | 2346.75           | -74.93      | -13           | -61.93            | -80.88            | -80.95             | 2.39                 | 10.56                 | V                  |
|                           | 3129              | -70.09      | -13           | -57.09            | -78.12            | -75.96             | 4.53                 | 12.55                 | V                  |

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

| LTE Band 13 / 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) |
| Middle                     | 1559.5            | -68.48      | -40           | -28.48            | -72.34            | -75.16             | 2.68                 | 9.36                  | H                  |
|                            | 2339.25           | -70.18      | -13           | -57.18            | -76.24            | -76.18             | 2.36                 | 10.51                 | H                  |
|                            | 3119              | -69.36      | -13           | -56.36            | -77.36            | -75.24             | 4.49                 | 12.52                 | H                  |
|                            | 1559.5            | -69.88      | -40           | -29.88            | -73.87            | -76.56             | 2.68                 | 9.36                  | V                  |
|                            | 2339.25           | -70.28      | -13           | -57.28            | -76.23            | -76.28             | 2.36                 | 10.51                 | V                  |
|                            | 3119              | -69.52      | -13           | -56.52            | -77.55            | -75.40             | 4.49                 | 12.52                 | V                  |

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



| LTE Band 17 / 5MHz / QPSK |                      |                |                  |                         |                         |                          |                            |                             |                       |
|---------------------------|----------------------|----------------|------------------|-------------------------|-------------------------|--------------------------|----------------------------|-----------------------------|-----------------------|
| Channel                   | Frequency<br>( MHz ) | ERP<br>( dBm ) | Limit<br>( dBm ) | Over<br>Limit<br>( dB ) | SPA<br>Reading<br>(dBm) | S.G.<br>Power<br>( dBm ) | TX Cable<br>loss<br>( dB ) | TX Antenna<br>Gain<br>(dBi) | Polarization<br>(H/V) |
| Lowest                    | 1408.68              | -68.26         | -13              | -55.26                  | -71.66                  | -71.16                   | 2.85                       | 7.90                        | H                     |
|                           | 2113.02              | -72.84         | -13              | -59.84                  | -79.04                  | -77.78                   | 3.21                       | 10.30                       | H                     |
|                           | 2817.36              | -70.60         | -13              | -57.60                  | -79.09                  | -76.00                   | 3.85                       | 11.40                       | H                     |
|                           | 1408.68              | -69.47         | -13              | -56.47                  | -72.91                  | -72.37                   | 2.85                       | 7.90                        | V                     |
|                           | 2113.02              | -74.57         | -13              | -61.57                  | -78.96                  | -79.51                   | 3.21                       | 10.30                       | V                     |
|                           | 2817.36              | -71.74         | -13              | -58.74                  | -79.11                  | -77.14                   | 3.85                       | 11.40                       | V                     |
| Middle                    | 1415.68              | -70.24         | -13              | -57.24                  | -73.64                  | -73.21                   | 2.88                       | 8.00                        | H                     |
|                           | 2123.58              | -72.43         | -13              | -59.43                  | -78.63                  | -77.43                   | 3.25                       | 10.40                       | H                     |
|                           | 2831.36              | -70.76         | -13              | -57.76                  | -79.25                  | -76.24                   | 3.87                       | 11.50                       | H                     |
|                           | 1415.68              | -70.53         | -13              | -57.53                  | -73.97                  | -73.50                   | 2.88                       | 8.00                        | V                     |
|                           | 2123.58              | -74.64         | -13              | -61.64                  | -79.03                  | -79.64                   | 3.25                       | 10.40                       | V                     |
|                           | 2831.36              | -71.94         | -13              | -58.94                  | -79.31                  | -77.42                   | 3.87                       | 11.50                       | V                     |
| Highest                   | 1422.68              | -68.31         | -13              | -55.31                  | -71.71                  | -71.35                   | 2.91                       | 8.10                        | H                     |
|                           | 2134.02              | -72.27         | -13              | -59.27                  | -78.47                  | -77.28                   | 3.28                       | 10.44                       | H                     |
|                           | 2845.36              | -70.71         | -13              | -57.71                  | -79.20                  | -76.27                   | 3.89                       | 11.60                       | H                     |
|                           | 1422.68              | -69.50         | -13              | -56.50                  | -72.94                  | -72.54                   | 2.91                       | 8.10                        | V                     |
|                           | 2134.02              | -74.66         | -13              | -61.66                  | -79.05                  | -79.67                   | 3.28                       | 10.44                       | V                     |
|                           | 2845.36              | -71.74         | -13              | -58.74                  | -79.11                  | -77.30                   | 3.89                       | 11.60                       | V                     |

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



| LTE Band 17 / 10MHz / QPSK |                      |                |                  |                         |                         |                          |                            |                             |                       |
|----------------------------|----------------------|----------------|------------------|-------------------------|-------------------------|--------------------------|----------------------------|-----------------------------|-----------------------|
| Channel                    | Frequency<br>( MHz ) | ERP<br>( dBm ) | Limit<br>( dBm ) | Over<br>Limit<br>( dB ) | SPA<br>Reading<br>(dBm) | S.G.<br>Power<br>( dBm ) | TX Cable<br>loss<br>( dB ) | TX Antenna<br>Gain<br>(dBi) | Polarization<br>(H/V) |
| Lowest                     | 1409.18              | -68.09         | -13              | -55.09                  | -71.49                  | -70.99                   | 2.85                       | 7.90                        | H                     |
|                            | 2113.77              | -72.29         | -13              | -59.29                  | -78.49                  | -77.23                   | 3.21                       | 10.30                       | H                     |
|                            | 2818.36              | -70.07         | -13              | -57.07                  | -78.56                  | -75.47                   | 3.85                       | 11.40                       | H                     |
|                            | 1409.18              | -69.90         | -13              | -56.90                  | -73.34                  | -72.80                   | 2.85                       | 7.90                        | V                     |
|                            | 2113.77              | -74.54         | -13              | -61.54                  | -78.93                  | -79.48                   | 3.21                       | 10.30                       | V                     |
|                            | 2818.36              | -71.58         | -13              | -58.58                  | -78.95                  | -76.98                   | 3.85                       | 11.40                       | V                     |
| Middle                     | 1411.18              | -53.18         | -13              | -40.18                  | -56.58                  | -56.15                   | 2.88                       | 8.00                        | H                     |
|                            | 2116.77              | -65.08         | -13              | -52.08                  | -71.28                  | -70.08                   | 3.25                       | 10.40                       | H                     |
|                            | 2822.36              | -64.78         | -13              | -51.78                  | -73.27                  | -70.26                   | 3.87                       | 11.50                       | H                     |
|                            | 1411.18              | -64.53         | -13              | -51.53                  | -67.97                  | -67.50                   | 2.88                       | 8.00                        | V                     |
|                            | 2116.77              | -70.58         | -13              | -57.58                  | -74.97                  | -75.58                   | 3.25                       | 10.40                       | V                     |
|                            | 2822.36              | -67.59         | -13              | -54.59                  | -74.96                  | -73.07                   | 3.87                       | 11.50                       | V                     |
| Highest                    | 1413.18              | -69.64         | -13              | -56.64                  | -73.04                  | -72.68                   | 2.91                       | 8.10                        | H                     |
|                            | 2119.77              | -71.85         | -13              | -58.85                  | -78.05                  | -76.86                   | 3.28                       | 10.44                       | H                     |
|                            | 2826.36              | -70.07         | -13              | -57.07                  | -78.56                  | -75.63                   | 3.89                       | 11.60                       | H                     |
|                            | 1413.18              | -70.30         | -13              | -57.30                  | -73.74                  | -73.34                   | 2.91                       | 8.10                        | V                     |
|                            | 2119.77              | -73.52         | -13              | -60.52                  | -77.91                  | -78.53                   | 3.28                       | 10.44                       | V                     |
|                            | 2826.36              | -71.30         | -13              | -58.30                  | -78.67                  | -76.86                   | 3.89                       | 11.60                       | V                     |

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