



# RADIO TEST REPORT

Report No.:STS2111153W02

Issued for

Excellus Communications, LLC

27298 Wetland Road, Suite 101 Harrisburg, SD 57032 USA

|                |                          |
|----------------|--------------------------|
| Product Name:  | 4G senior phone          |
| Brand Name:    | Snapfon                  |
| Model Name:    | Snapfön ezFlip 4G v1.1   |
| Series Model:  | N/A                      |
| FCC ID:        | 2AW56-EZFLIP2            |
| Test Standard: | 47 CFR Part 2, 24(E), 27 |

Any reproduction of this document must be done in full. No single part of this document may be reproduced without permission from STS, all test data presented in this report is only applicable to presented test sample.



**TEST RESULT CERTIFICATION**

**Applicant's Name** .....: Excellus Communications, LLC

**Address** .....: 27298 Wetland Road, Suite 101 Harrisburg, SD 57032 USA

**Manufacturer's Name** .....: Ying Tai Electronics Co., Ltd

**Address** .....: ROOM 803, CHEVALIER HOUSE 45-51 CHATHAM ROAD  
SOUTH, TSIM SHA TSUI, KOWLOON, HONG KONG

**Product Description**

**Product Name** .....: 4G senior phone

**Brand Name** .....: Snapfon

**Model Name** .....: Snapfon ezFlip 4G v1.1

**Series Model** .....: N/A

**Test Standards**.....: 47 CFR Part 2, 24(E), 27

**Test Procedure** .....: KDB 971168 D01 v03r01, ANSI C63.26 2015

This device described above has been tested by STS, the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

This report shall not be reproduced except in full, without the written approval of STS, this document may be altered or revised by STS, personal only, and shall be noted in the revision of the document.

**Date of Test**.....:

**Date of receipt of test item**.....: 24 Nov. 2021

**Date (s) of performance of tests**.: 24 Nov. 2021 ~ 27 Dec. 2021

**Date of Issue** .....: 27 Dec. 2021

**Test Result** .....: Pass

Testing Engineer :

(Chris Chen)

Technical Manager :

(Sean she)

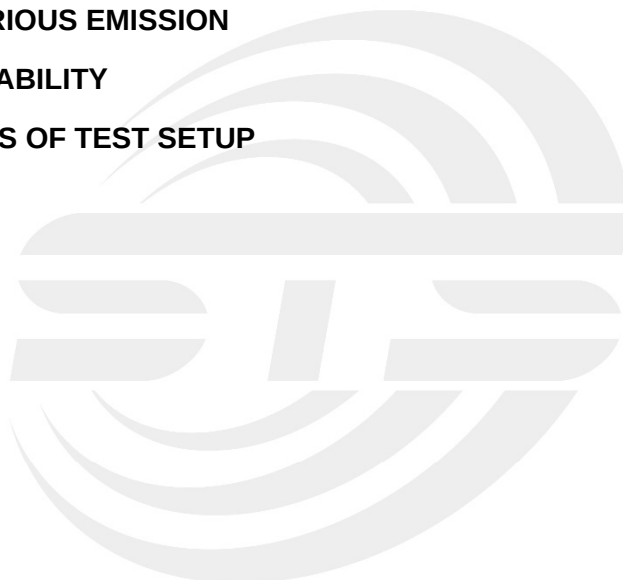
Authorized Signatory :

(Vita Li)





| Table of Contents                                                                  | Page |
|------------------------------------------------------------------------------------|------|
| 1. TEST FACTORY & MEASUREMENT UNCERTAINTY                                          | 5    |
| 2. GENERAL INFORMATION                                                             | 6    |
| 3. CONDUCTED OUTPUT POWER&RADIATED POWER AND EFFECTIVE ISOTROPIC<br>RADIATED POWER | 15   |
| 4. PEAK-TO-AVERAGE RATIO                                                           | 42   |
| 5. OCCUPIED BANDWIDTH                                                              | 44   |
| 6. CONDUCTED BAND EDGE                                                             | 47   |
| 7. CONDUCTED SPURIOUS EMISSION                                                     | 49   |
| 8. RADIATED SPURIOUS EMISSION                                                      | 50   |
| 9. FREQUENCY STABILITY                                                             | 78   |
| APPENDIX-PHOTOS OF TEST SETUP                                                      | 84   |



**Revision History**

| Rev. | Issue Date   | Report NO.    | Effect Page | Contents      |
|------|--------------|---------------|-------------|---------------|
| 00   | 27 Dec. 2021 | STS2111153W02 | ALL         | Initial Issue |
|      |              |               |             |               |





## 1. TEST FACTORY & MEASUREMENT UNCERTAINTY

### 1.1 TEST FACTORY

SHENZHEN STS TEST SERVICES CO., LTD

Add. : A 1/F, Building B, Zhuoke Science Park, No.190 Chongqing Road, HepingShequ, Fuyong Sub-District, Bao'an District, Shenzhen, Guang Dong, China

FCC test Firm Registration Number: 625569

IC test Firm Registration Number: 12108A

A2LA Certificate No.: 4338.01

### 1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement  $y \pm U$ , where expended uncertainty  $U$  is based on a standard uncertainty multiplied by a coverage factor of  $k=2$ , providing a level of confidence of approximately 95 %.

| No. | Item                             | Uncertainty          |
|-----|----------------------------------|----------------------|
| 1   | RF output power, conducted       | $\pm 0.87\text{dB}$  |
| 2   | Unwanted Emissions, conducted    | $\pm 2.895\text{dB}$ |
| 3   | All emissions, radiated 9K-30MHz | $\pm 3.80\text{dB}$  |
| 4   | All emissions, radiated 30M-1GHz | $\pm 4.09\text{dB}$  |
| 5   | All emissions, radiated 1G-6GHz  | $\pm 4.92\text{dB}$  |
| 6   | All emissions, radiated >6G      | $\pm 5.49\text{dB}$  |
| 7   | Conducted Emission (9KHz-30MHz)  | $\pm 2.73\text{dB}$  |



## 2. GENERAL INFORMATION

### 2.1 TECHNICAL SPECIFICATIONS AND REGULATIONS

#### 2.1.1 PRODUCT DESCRIPTION

A major technical description of EUT is described as following:

|                         |                                                                                                             |
|-------------------------|-------------------------------------------------------------------------------------------------------------|
| Product Name            | 4G senior phone                                                                                             |
| Trade Name              | Snapfon                                                                                                     |
| Model Name              | Snapfon ezFlip 4G v1.1                                                                                      |
| Series Model            | N/A                                                                                                         |
| Model Difference        | N/A                                                                                                         |
| Frequency Bands         | U.S. Bands:<br>LTE FDD Band 2      LTE FDD Band 4<br>LTE FDD Band 5      LTE FDD Band 12<br>LTE FDD Band 66 |
| SIM Card                | SIM 1 and SIM 2 is a chipset unit and tested as single chipset, SIM 1 is used to tested.                    |
| Antenna                 | PIFA                                                                                                        |
| Antenna gain            | 0.5dBi                                                                                                      |
| Battery parameter       | Rated Voltage: 3.7V<br>Charge Limit Voltage: 4.2V<br>Capacity: 1500mAh                                      |
| Adapter                 | Input: AC 100-240V 50/60Hz 0.2A<br>Output: DC 5V 1A                                                         |
| Extreme Vol. Limits     | 4.2V to 3.5V (Nominal 3.7V)                                                                                 |
| Extreme Temp. Tolerance | -10°C to +55°C                                                                                              |
| Hardware version number | P31-MB-V1.2                                                                                                 |
| Software version number | Snapfon_ezFlip_V2.0_20210929_1457                                                                           |

Note: The antenna information refer the manufacturer provide report, applicable only to the tested sample identified in the report.



## 2.1.2 PRODUCT SPECIFICATION SUBJECTIVE TO THIS STANDARD

| Product Specification Subjective To This Standard |                                                                                                                                                                                                                                                                          |
|---------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Tx Frequency                                      | LTE Band 2:1850~1910MHz<br>LTE Band 4:1710~1755MHz<br>LTE Band 5:824~849MHz<br>LTE Band 12:699~716MHz<br>LTE Band 66:1710~1780MHz                                                                                                                                        |
| Rx Frequency                                      | LTE Band 2:1930 ~1990MHz<br>LTE Band 4:2110~2155MHz<br>LTE Band 5:869~894MHz<br>LTE Band 12:729~746MHz<br>LTE Band 66:2110~2200MHz                                                                                                                                       |
| Bandwidth                                         | 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 66: 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz /20MHz |
| Maximum Output Power                              | LTE Band 2: 23.99 dBm<br>LTE Band 4: 24.69 dBm<br>LTE Band 5: 24.42 dBm<br>LTE Band 12: 23.95 dBm<br>LTE Band 66: 24.38 dBm                                                                                                                                              |
| Type of Modulation                                | QPSK /16QAM                                                                                                                                                                                                                                                              |

| RF Function | Band            | UE Category UL | Modulation      | Power Class | Ant Gain(dB i) | Ant Type | SIM Card                   |
|-------------|-----------------|----------------|-----------------|-------------|----------------|----------|----------------------------|
| LTE         | FDD:2/4/5/12/66 | 4              | UL: QPSK, 16QAM | 3           | 0.5            | PIFA     | 2 SIM 1 is used to tested. |
|             | TDD:            |                | DL: QPSK, 16QAM |             |                |          |                            |



## 2.1.3 EMISSION DESIGNATOR

| LTE Band 2  | Emission Designator | Emission Designator |
|-------------|---------------------|---------------------|
| BW(MHz)     | (99%OBW)QPSK        | (99%OBW)16QAM       |
| 1.4         | 1M10G7D             | 1M10W7D             |
| 3           | 2M68G7D             | 2M68W7D             |
| 5           | 4M53G7D             | 4M54W7D             |
| 10          | 8M95G7D             | 8M95W7D             |
| 15          | 13M5G7D             | 13M5W7D             |
| 20          | 17M9G7D             | 18M0W7D             |
| LTE Band 4  | Emission Designator | Emission Designator |
| BW(MHz)     | (99%OBW)QPSK        | (99%OBW)16QAM       |
| 1.4         | 1M11G7D             | 1M10W7D             |
| 3           | 2M68G7D             | 2M68W7D             |
| 5           | 4M53G7D             | 4M53W7D             |
| 10          | 8M97G7D             | 8M96W7D             |
| 15          | 13M5G7D             | 13M5W7D             |
| 20          | 18M0G7D             | 18M0W7D             |
| LTE Band 5  | Emission Designator | Emission Designator |
| BW(MHz)     | (99%OBW)QPSK        | (99%OBW)16QAM       |
| 1.4         | 1M10G7D             | 1M10W7D             |
| 3           | 2M68G7D             | 2M67W7D             |
| 5           | 4M53G7D             | 4M54W7D             |
| 10          | 8M96G7D             | 8M95W7D             |
| LTE Band 12 | Emission Designator | Emission Designator |
| BW(MHz)     | (99%OBW)QPSK        | (99%OBW)16QAM       |
| 1.4         | 1M11G7D             | 1M10W7D             |
| 3           | 2M68G7D             | 2M68W7D             |
| 5           | 4M54G7D             | 4M56W7D             |
| 10          | 9M00G7D             | 8M99W7D             |
| LTE Band 66 | Emission Designator | Emission Designator |
| BW(MHz)     | (99%OBW)QPSK        | (99%OBW)16QAM       |
| 1.4         | 1M10G7D             | 1M11W7D             |
| 3           | 2M68G7D             | 2M68W7D             |
| 5           | 4M53G7D             | 4M54W7D             |
| 10          | 8M96G7D             | 8M95W7D             |
| 15          | 14M8G7D             | 13M5W7D             |
| 20          | 18M0G7D             | 18M0W7D             |



## 2.1.4 TEST CONFIGURATION OF EQUIPMENT UNDER TEST

Antenna port conducted and radiated test items listed below are performed according to KDB 971168 D01 v03r01 and ANSI C63.26 2015 Power Meas. License Digital Systems with maximum output power. Radiated measurements are performed by rotating the EUT in three different orthogonal test planes to find the maximum emission.

Remark:

1. The mark 'v' means that this configuration is chosen for testing
2. The mark '-' means that this bandwidth is not supported.
3. The device is investigated from 30MHz to 10 times of fundamental signal for radiated.

| ITEMS                       | Band | Bandwidth (MHz) |   |   |    |    |    | Modulation |       | RB # |      |      | Test Channel |   |   |
|-----------------------------|------|-----------------|---|---|----|----|----|------------|-------|------|------|------|--------------|---|---|
|                             |      | 1.4             | 3 | 5 | 10 | 15 | 20 | QPSK       | 16QAM | 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 |
|                             | 66   | v               | v | v | v  | v  | v  | v          | v     | v    | v    | v    | v            | v | v |
| Peak&Avera Ratio            | 2    |                 |   |   |    |    | v  | v          | v     | v    |      | v    | v            | v | v |
|                             | 4    |                 |   |   |    |    | 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 |
|                             | 66   |                 |   |   |    |    | v  | v          | v     | v    |      | v    | v            | v | v |
| 26dB&99% Bandwidth          | 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 |
|                             | 66   | v               | v | v | v  | v  | v  | v          | v     |      |      | v    | v            | v | v |
| Conducted Band Edge         | 2    | 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 |
|                             | 5    | v               | v | v | v  |    |    | v          | v     | v    |      | v    | v            | v | v |
|                             | 12   | v               | v | v | v  |    |    | v          | v     | v    |      | v    | v            | v | v |
|                             | 66   | v               | v | v | v  | v  | v  | v          | v     | v    |      | v    | v            | v | v |
| Conducted Spurious Emission | 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 |
|                             | 66   | v               | v | v | v  | v  | v  | v          | v     | v    |      |      | v            | v | v |
| Frequency Stability         | 2    |                 |   |   | v  |    |    | v          |       |      |      | v    |              | v |   |
|                             | 4    |                 |   |   | v  |    |    | v          |       |      |      | v    |              | v |   |
|                             | 5    |                 |   |   | v  |    |    | v          |       |      |      | v    |              | v |   |
|                             | 12   |                 |   |   | v  |    |    | v          |       |      |      | v    |              | v |   |
|                             | 66   |                 |   |   | v  |    |    | v          |       |      |      | v    |              | v |   |



|                                  |    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|----------------------------------|----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| E.R.P.&<br>E.I.R.P.              | 2  | v | v | v | v | v | v | v | v | v | v | v | v | v | v |
|                                  | 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 |
|                                  | 66 | v | v | v | v | v | v | v | v | v | v | v | v | v | v |
| Radiated<br>Spurious<br>Emission | 2  | v | v | v | v | v | v | v |   | v |   |   | v | v | v |
|                                  | 4  | v | v | v | v | v | v | v |   | v |   |   | v | v | v |
|                                  | 5  | v | v | v | v |   |   | v |   | v |   |   | v | v | v |
|                                  | 12 | v | v | v | v |   |   | v |   | v |   |   | v | v | v |
|                                  | 66 | v | v | v | v | v | v | v |   | v |   |   | v | v | v |





#### 2.1.5 RELATED SUBMITTAL(S) / GRANT (S)

This submittal(s) (test report) is intended for filing to comply with the 47 CFR Part 2, 24(E), 27.

#### 2.1.6 SPECIAL ACCESSORIES

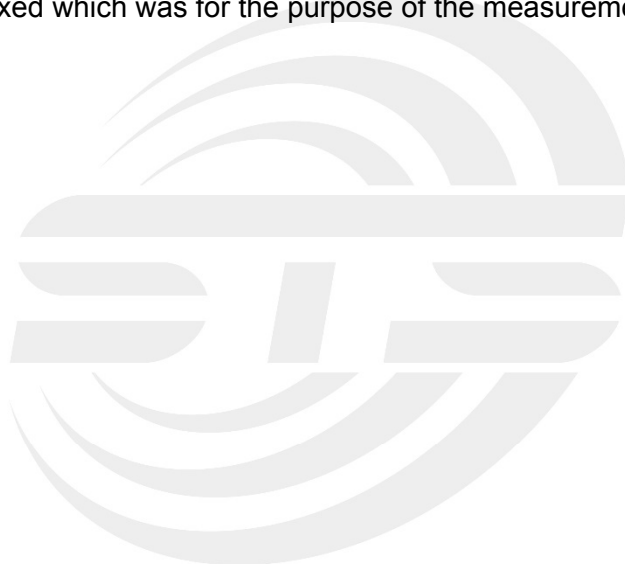
The battery and the charger, earphone supplied by the applicant were used as accessories and being tested with eut intended for fcc grant together.

#### 2.1.7 EUT CONFIGURATION

The EUT configuration for testing is installed on RF field strength measurement to meet the Commission's requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

#### 2.1.8 EUT EXERCISE

The Transmitter was operated in the maximum output power mode through Communication Tester. The TX frequency was fixed which was for the purpose of the measurements.





### 2.1.9 CONFIGURATION OF EUT SYSTEM

The EUT configuration for testing is installed on RF field strength measurement to meet the Commission's requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

E-1  
EUT

Table 2-1 Equipment Used in EUT System

| Item | Equipment | Model No. | Length | Note |
|------|-----------|-----------|--------|------|
| N/A  | N/A       | N/A       | N/A    | N/A  |
|      |           |           |        |      |
|      |           |           |        |      |
|      |           |           |        |      |

Note:

- (1) For detachable type I/O cable should be specified the length in cm in 『Length』 column.
- (2) “YES” is means “with core”; “NO” is means “without core”.



## 2.1.10 MEASUREMENT INSTRUMENTS

The radiated emission testing was performed according to the procedures of ANSI C63.26 2015 and FCC CFR 47 rules of 2.1046, 2.1047, 2.1049, 2.1051, 2.1053, 2.1055, 2.1057.

## Radiation Test equipment

| Kind of Equipment                | Manufacturer | Type No.       | Serial No.   | Last calibration | Calibrated until |
|----------------------------------|--------------|----------------|--------------|------------------|------------------|
| Test Receiver                    | R&S          | ESCI           | 101427       | 2021.09.30       | 2022.09.29       |
| Signal Analyzer                  | R&S          | FSV 40-N       | 101823       | 2021.09.30       | 2022.09.29       |
| Signal Generator                 | Agilent      | 83752A         | 3610A02740   | 2021.09.30       | 2022.09.29       |
| Wireless Communications Test Set | R&S          | CMW 500        | 133884       | 2021.03.04       | 2022.03.03       |
| Bilog Antenna                    | TESEQ        | CBL6111D       | 34678        | 2020.10.12       | 2022.10.11       |
| Horn Antenna                     | SCHWARZBECK  | BBHA 9120D     | 02014        | 2021.10.11       | 2023.10.10       |
| Bilog Antenna                    | TESEQ        | CBL6111D       | 45873        | 2020.10.12       | 2022.10.11       |
| Horn Antenna                     | SCHWARZBECK  | BBHA 9120D     | 9120D-1343   | 2020.10.12       | 2022.10.11       |
| SHF-EHF Horn Antenna (18G-40GHz) | A-INFO       | LB-180400-KF   | J211020657   | 2020.10.12       | 2022.10.11       |
| Pre-Amplifier (0.1M-3GHz)        | EM           | EM330          | 060665       | 2021.10.08       | 2022.10.07       |
| Pre-Amplifier (1G-18GHz)         | SKET         | LNPA-01018G-45 | SK2018080901 | 2021.09.30       | 2022.09.29       |
| Pre-Amplifier (18G-40GHz)        | SKET         | LNPA-1840-50   | SK2018101801 | 2021.09.28       | 2022.09.27       |
| Turn table                       | EM           | SC100_1        | 60531        | N/A              | N/A              |
| Antenna mast                     | EM           | SC100          | N/A          | N/A              | N/A              |
| Temperature & Humidity           | HH660        | Mieo           | N/A          | 2021.10.09       | 2022.10.08       |
| Test SW                          | BULUN        | BL410-E/18.905 |              |                  |                  |

## RF Connected Test

| Kind of Equipment                    | Manufacturer | Type No.        | Serial No. | Last calibration | Calibrated until |
|--------------------------------------|--------------|-----------------|------------|------------------|------------------|
| Universal Radio communication tester | R&S          | CMU200          | 119907     | 2021.09.29       | 2022.09.28       |
| Wireless Communications Test Set     | R&S          | CMW 500         | 133884     | 2021.03.04       | 2022.03.03       |
| Signal Analyzer                      | Agilent      | N9020A          | MY52440124 | 2021.03.04       | 2022.03.03       |
| Temperature & Humidity test chamber  | Safety test  | AG80L           | 171200018  | 2021.03.04       | 2022.03.03       |
| Programmable power supply            | Agilent      | E3642A          | MY40002025 | 2021.10.08       | 2022.10.07       |
| Temperature & Humidity               | SW-108       | SuWei           | N/A        | 2021.03.04       | 2022.03.03       |
| Universal Radio communication tester | R&S          | CMU200          | 119907     | 2021.09.29       | 2022.09.28       |
| Test SW                              | FARAD        | LZ-RF /LzRf-3A3 |            |                  |                  |



## 2.1.11 MEASUREMENT RESULTS EXPLANATION EXAMPLE

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

*Offset = RF Cable Loss + Attenuator Factor.*



### 3. CONDUCTED OUTPUT POWER&RADIATED POWER AND EFFECTIVE ISOTROPIC RADIATED POWER

#### 3.1 DESCRIPTION OF THE CONDUCTED OUTPUT POWER MEASUREMENT

##### 3.1.1 MEASUREMENT METHOD

##### CONDUCTED OUTPUT POWER:

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.

Configuration follows KDB 971168 D01 v03r01.

C63.26 2015 Section 5.2.5.5.

In many cases, RF output power limits are specified in terms of the ERP or the EIRP. Typically, ERP is specified when the operating frequency is less than or equal to 1 GHz and EIRP is specified when the operating frequency is greater than 1 GHz. Both are defined as the product of the power supplied to the antenna and its gain (relative to a dipole antenna in the case of ERP, and relative to an isotropic antenna in the case of EIRP); however, when working in decibels (i.e., logarithmic scale), the ERP and EIRP represent the sum of the transmit antenna gain (in dBd or dBi, respectively) and the conducted RF output power (expressed in dB relative to watts or milliwatts). The relevant equation for determining the maximum ERP or EIRP from the measured RF output power is given in Equation (1) as follows:

(1)  $ERP \text{ or } EIRP = P_{Meas} + GT$

$ERP = EIRP - 2.15$

where

ERP or EIRP effective radiated power or equivalent isotropically radiated power, respectively (expressed in the same units as  $P_{Meas}$ , e.g., dBm or dBW)

$P_{Meas}$  measured transmitter output power or PSD, in dBm or dBW

GT gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP)

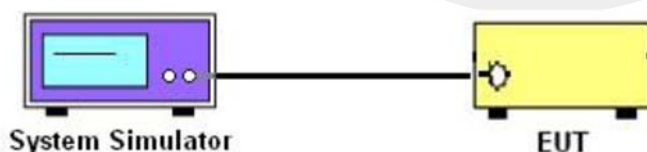
For devices utilizing multiple antennas, see 6.4 for guidance with respect to determining the effective array transmit antenna gain term to be used in the above equation.

The following equations demonstrate the mathematical relationship between ERP and EIRP:

a)  $ERP = EIRP - 2.15$ , where ERP and EIRP are expressed in consistent units.

b)  $EIRP = ERP + 2.15$ , where ERP and EIRP are expressed in consistent units.

##### 3.1.2 TEST SETUP



##### 3.1.3 TEST PROCEDURES

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



## 3.1.4 TEST RESULTS

| Radiated Power (EIRP) for LTE Band 2 /1.4M |            |         |           |            |                           |                |            |               |                 |         |
|--------------------------------------------|------------|---------|-----------|------------|---------------------------|----------------|------------|---------------|-----------------|---------|
| BW (MHz)                                   | UL Channel | RB Size | RB offset | Modulation | Conduction AVG Power(dBm) | Ant Gain (dBi) | EIRP (dBm) | EIRP Limit(W) | EIRP Limit(dBm) | Verdict |
| 1.4                                        | Lowest     | 1       | 0         | QPSK       | 22.99                     | 0.5            | 23.49      | 2.00          | 33.01           | PASS    |
|                                            |            | 1       | 2         |            | 22.82                     | 0.5            | 23.32      | 2.00          | 33.01           | PASS    |
|                                            |            | 1       | 5         |            | 22.74                     | 0.5            | 23.24      | 2.00          | 33.01           | PASS    |
|                                            |            | 3       | 0         |            | 22.67                     | 0.5            | 23.17      | 2.00          | 33.01           | PASS    |
|                                            |            | 3       | 1         |            | 22.65                     | 0.5            | 23.15      | 2.00          | 33.01           | PASS    |
|                                            |            | 3       | 2         |            | 22.49                     | 0.5            | 22.99      | 2.00          | 33.01           | PASS    |
|                                            |            | 6       | 0         |            | 22.37                     | 0.5            | 22.87      | 2.00          | 33.01           | PASS    |
|                                            |            | 1       | 0         | 16QAM      | 22.81                     | 0.5            | 23.31      | 2.00          | 33.01           | PASS    |
|                                            |            | 1       | 2         |            | 22.67                     | 0.5            | 23.17      | 2.00          | 33.01           | PASS    |
|                                            |            | 1       | 5         |            | 22.70                     | 0.5            | 23.20      | 2.00          | 33.01           | PASS    |
|                                            |            | 3       | 0         |            | 22.54                     | 0.5            | 23.04      | 2.00          | 33.01           | PASS    |
|                                            |            | 3       | 1         |            | 22.45                     | 0.5            | 22.95      | 2.00          | 33.01           | PASS    |
|                                            |            | 3       | 2         |            | 22.37                     | 0.5            | 22.87      | 2.00          | 33.01           | PASS    |
|                                            |            | 6       | 0         |            | 22.22                     | 0.5            | 22.72      | 2.00          | 33.01           | PASS    |
|                                            | Middle     | 1       | 0         | QPSK       | 23.02                     | 0.5            | 23.52      | 2.00          | 33.01           | PASS    |
|                                            |            | 1       | 2         |            | 23.00                     | 0.5            | 23.50      | 2.00          | 33.01           | PASS    |
|                                            |            | 1       | 5         |            | 22.94                     | 0.5            | 23.44      | 2.00          | 33.01           | PASS    |
|                                            |            | 3       | 0         |            | 22.89                     | 0.5            | 23.39      | 2.00          | 33.01           | PASS    |
|                                            |            | 3       | 1         |            | 22.83                     | 0.5            | 23.33      | 2.00          | 33.01           | PASS    |
|                                            |            | 3       | 2         |            | 22.65                     | 0.5            | 23.15      | 2.00          | 33.01           | PASS    |
|                                            |            | 6       | 0         |            | 22.62                     | 0.5            | 23.12      | 2.00          | 33.01           | PASS    |
|                                            |            | 1       | 0         | 16QAM      | 22.86                     | 0.5            | 23.36      | 2.00          | 33.01           | PASS    |
|                                            |            | 1       | 2         |            | 22.84                     | 0.5            | 23.34      | 2.00          | 33.01           | PASS    |
|                                            |            | 1       | 5         |            | 22.84                     | 0.5            | 23.34      | 2.00          | 33.01           | PASS    |
|                                            |            | 3       | 0         |            | 22.86                     | 0.5            | 23.36      | 2.00          | 33.01           | PASS    |
|                                            |            | 3       | 1         |            | 22.65                     | 0.5            | 23.15      | 2.00          | 33.01           | PASS    |
|                                            |            | 3       | 2         |            | 22.53                     | 0.5            | 23.03      | 2.00          | 33.01           | PASS    |
|                                            |            | 6       | 0         |            | 22.56                     | 0.5            | 23.06      | 2.00          | 33.01           | PASS    |
|                                            | Highest    | 1       | 0         | QPSK       | 23.12                     | 0.5            | 23.62      | 2.00          | 33.01           | PASS    |
|                                            |            | 1       | 2         |            | 23.07                     | 0.5            | 23.57      | 2.00          | 33.01           | PASS    |
|                                            |            | 1       | 5         |            | 23.04                     | 0.5            | 23.54      | 2.00          | 33.01           | PASS    |
|                                            |            | 3       | 0         |            | 22.85                     | 0.5            | 23.35      | 2.00          | 33.01           | PASS    |
|                                            |            | 3       | 1         |            | 22.73                     | 0.5            | 23.23      | 2.00          | 33.01           | PASS    |
|                                            |            | 3       | 2         |            | 22.65                     | 0.5            | 23.15      | 2.00          | 33.01           | PASS    |
|                                            |            | 6       | 0         |            | 22.58                     | 0.5            | 23.08      | 2.00          | 33.01           | PASS    |
|                                            |            | 1       | 0         | 16QAM      | 23.11                     | 0.5            | 23.61      | 2.00          | 33.01           | PASS    |
|                                            |            | 1       | 2         |            | 22.97                     | 0.5            | 23.47      | 2.00          | 33.01           | PASS    |
|                                            |            | 1       | 5         |            | 22.89                     | 0.5            | 23.39      | 2.00          | 33.01           | PASS    |
|                                            |            | 3       | 0         |            | 22.71                     | 0.5            | 23.21      | 2.00          | 33.01           | PASS    |
|                                            |            | 3       | 1         |            | 22.71                     | 0.5            | 23.21      | 2.00          | 33.01           | PASS    |
|                                            |            | 3       | 2         |            | 22.53                     | 0.5            | 23.03      | 2.00          | 33.01           | PASS    |
|                                            |            | 6       | 0         |            | 22.40                     | 0.5            | 22.90      | 2.00          | 33.01           | PASS    |



| Radiated Power (EIRP) for LTE Band 2 /3M |            |         |           |            |                           |                |            |               |                 |         |
|------------------------------------------|------------|---------|-----------|------------|---------------------------|----------------|------------|---------------|-----------------|---------|
| BW (MHz)                                 | UL Channel | RB Size | RB offset | Modulation | Conduction AVG Power(dBm) | Ant Gain (dBi) | EIRP (dBm) | EIRP Limit(W) | EIRP Limit(dBm) | Verdict |
| 3                                        | Lowest     | 1       | 0         | QPSK       | 23.29                     | 0.5            | 23.79      | 2.00          | 33.01           | PASS    |
|                                          |            | 1       | 7         |            | 23.28                     | 0.5            | 23.78      | 2.00          | 33.01           | PASS    |
|                                          |            | 1       | 14        |            | 23.11                     | 0.5            | 23.61      | 2.00          | 33.01           | PASS    |
|                                          |            | 8       | 0         |            | 23.00                     | 0.5            | 23.50      | 2.00          | 33.01           | PASS    |
|                                          |            | 8       | 4         |            | 22.88                     | 0.5            | 23.38      | 2.00          | 33.01           | PASS    |
|                                          |            | 8       | 7         |            | 22.70                     | 0.5            | 23.20      | 2.00          | 33.01           | PASS    |
|                                          |            | 15      | 0         |            | 22.66                     | 0.5            | 23.16      | 2.00          | 33.01           | PASS    |
|                                          |            | 1       | 0         | 16QAM      | 23.13                     | 0.5            | 23.63      | 2.00          | 33.01           | PASS    |
|                                          |            | 1       | 7         |            | 23.14                     | 0.5            | 23.64      | 2.00          | 33.01           | PASS    |
|                                          |            | 1       | 14        |            | 22.99                     | 0.5            | 23.49      | 2.00          | 33.01           | PASS    |
|                                          |            | 8       | 0         |            | 22.93                     | 0.5            | 23.43      | 2.00          | 33.01           | PASS    |
|                                          |            | 8       | 4         |            | 22.77                     | 0.5            | 23.27      | 2.00          | 33.01           | PASS    |
|                                          |            | 8       | 7         |            | 22.66                     | 0.5            | 23.16      | 2.00          | 33.01           | PASS    |
|                                          |            | 15      | 0         |            | 22.48                     | 0.5            | 22.98      | 2.00          | 33.01           | PASS    |
|                                          | Middle     | 1       | 0         | QPSK       | 23.45                     | 0.5            | 23.95      | 2.00          | 33.01           | PASS    |
|                                          |            | 1       | 7         |            | 23.43                     | 0.5            | 23.93      | 2.00          | 33.01           | PASS    |
|                                          |            | 1       | 14        |            | 23.37                     | 0.5            | 23.87      | 2.00          | 33.01           | PASS    |
|                                          |            | 8       | 0         |            | 23.24                     | 0.5            | 23.74      | 2.00          | 33.01           | PASS    |
|                                          |            | 8       | 4         |            | 23.15                     | 0.5            | 23.65      | 2.00          | 33.01           | PASS    |
|                                          |            | 8       | 7         |            | 23.10                     | 0.5            | 23.60      | 2.00          | 33.01           | PASS    |
|                                          |            | 15      | 0         |            | 23.01                     | 0.5            | 23.51      | 2.00          | 33.01           | PASS    |
|                                          |            | 1       | 0         | 16QAM      | 23.32                     | 0.5            | 23.82      | 2.00          | 33.01           | PASS    |
|                                          |            | 1       | 7         |            | 23.35                     | 0.5            | 23.85      | 2.00          | 33.01           | PASS    |
|                                          |            | 1       | 14        |            | 23.19                     | 0.5            | 23.69      | 2.00          | 33.01           | PASS    |
|                                          |            | 8       | 0         |            | 23.07                     | 0.5            | 23.57      | 2.00          | 33.01           | PASS    |
|                                          |            | 8       | 4         |            | 22.98                     | 0.5            | 23.48      | 2.00          | 33.01           | PASS    |
|                                          |            | 8       | 7         |            | 22.95                     | 0.5            | 23.45      | 2.00          | 33.01           | PASS    |
|                                          |            | 15      | 0         |            | 22.89                     | 0.5            | 23.39      | 2.00          | 33.01           | PASS    |
|                                          | Highest    | 1       | 0         | QPSK       | 23.52                     | 0.5            | 24.02      | 2.00          | 33.01           | PASS    |
|                                          |            | 1       | 7         |            | 23.35                     | 0.5            | 23.85      | 2.00          | 33.01           | PASS    |
|                                          |            | 1       | 14        |            | 23.19                     | 0.5            | 23.69      | 2.00          | 33.01           | PASS    |
|                                          |            | 8       | 0         |            | 23.17                     | 0.5            | 23.67      | 2.00          | 33.01           | PASS    |
|                                          |            | 8       | 4         |            | 23.07                     | 0.5            | 23.57      | 2.00          | 33.01           | PASS    |
|                                          |            | 8       | 7         |            | 22.98                     | 0.5            | 23.48      | 2.00          | 33.01           | PASS    |
|                                          |            | 15      | 0         |            | 22.81                     | 0.5            | 23.31      | 2.00          | 33.01           | PASS    |
|                                          |            | 1       | 0         | 16QAM      | 23.46                     | 0.5            | 23.96      | 2.00          | 33.01           | PASS    |
|                                          |            | 1       | 7         |            | 23.22                     | 0.5            | 23.72      | 2.00          | 33.01           | PASS    |
|                                          |            | 1       | 14        |            | 23.05                     | 0.5            | 23.55      | 2.00          | 33.01           | PASS    |
|                                          |            | 8       | 0         |            | 23.02                     | 0.5            | 23.52      | 2.00          | 33.01           | PASS    |
|                                          |            | 8       | 4         |            | 23.02                     | 0.5            | 23.52      | 2.00          | 33.01           | PASS    |
|                                          |            | 8       | 7         |            | 22.90                     | 0.5            | 23.40      | 2.00          | 33.01           | PASS    |
|                                          |            | 15      | 0         |            | 22.62                     | 0.5            | 23.12      | 2.00          | 33.01           | PASS    |



| Radiated Power (EIRP) for LTE Band 2 /5M |            |         |           |            |                           |                |            |               |                 |         |
|------------------------------------------|------------|---------|-----------|------------|---------------------------|----------------|------------|---------------|-----------------|---------|
| BW (MHz)                                 | UL Channel | RB Size | RB offset | Modulation | Conduction AVG Power(dBm) | Ant Gain (dBi) | EIRP (dBm) | EIRP Limit(W) | EIRP Limit(dBm) | Verdict |
| 5                                        | Lowest     | 1       | 0         | QPSK       | 23.35                     | 0.5            | 23.85      | 2.00          | 33.01           | PASS    |
|                                          |            | 1       | 12        |            | 23.28                     | 0.5            | 23.78      | 2.00          | 33.01           | PASS    |
|                                          |            | 1       | 24        |            | 23.09                     | 0.5            | 23.59      | 2.00          | 33.01           | PASS    |
|                                          |            | 12      | 0         |            | 22.95                     | 0.5            | 23.45      | 2.00          | 33.01           | PASS    |
|                                          |            | 12      | 6         |            | 22.81                     | 0.5            | 23.31      | 2.00          | 33.01           | PASS    |
|                                          |            | 12      | 11        |            | 22.75                     | 0.5            | 23.25      | 2.00          | 33.01           | PASS    |
|                                          |            | 25      | 0         |            | 22.74                     | 0.5            | 23.24      | 2.00          | 33.01           | PASS    |
|                                          |            | 1       | 0         | 16QAM      | 23.20                     | 0.5            | 23.70      | 2.00          | 33.01           | PASS    |
|                                          |            | 1       | 12        |            | 23.16                     | 0.5            | 23.66      | 2.00          | 33.01           | PASS    |
|                                          |            | 1       | 24        |            | 23.00                     | 0.5            | 23.50      | 2.00          | 33.01           | PASS    |
|                                          |            | 12      | 0         |            | 22.95                     | 0.5            | 23.45      | 2.00          | 33.01           | PASS    |
|                                          |            | 12      | 6         |            | 22.68                     | 0.5            | 23.18      | 2.00          | 33.01           | PASS    |
|                                          |            | 12      | 11        |            | 22.67                     | 0.5            | 23.17      | 2.00          | 33.01           | PASS    |
|                                          |            | 25      | 0         |            | 22.56                     | 0.5            | 23.06      | 2.00          | 33.01           | PASS    |
|                                          | Middle     | 1       | 0         | QPSK       | 23.55                     | 0.5            | 24.05      | 2.00          | 33.01           | PASS    |
|                                          |            | 1       | 12        |            | 23.52                     | 0.5            | 24.02      | 2.00          | 33.01           | PASS    |
|                                          |            | 1       | 24        |            | 23.36                     | 0.5            | 23.86      | 2.00          | 33.01           | PASS    |
|                                          |            | 12      | 0         |            | 23.28                     | 0.5            | 23.78      | 2.00          | 33.01           | PASS    |
|                                          |            | 12      | 6         |            | 23.26                     | 0.5            | 23.76      | 2.00          | 33.01           | PASS    |
|                                          |            | 12      | 11        |            | 23.22                     | 0.5            | 23.72      | 2.00          | 33.01           | PASS    |
|                                          |            | 25      | 0         |            | 23.06                     | 0.5            | 23.56      | 2.00          | 33.01           | PASS    |
|                                          |            | 1       | 0         | 16QAM      | 23.52                     | 0.5            | 24.02      | 2.00          | 33.01           | PASS    |
|                                          |            | 1       | 12        |            | 23.43                     | 0.5            | 23.93      | 2.00          | 33.01           | PASS    |
|                                          |            | 1       | 24        |            | 23.21                     | 0.5            | 23.71      | 2.00          | 33.01           | PASS    |
|                                          |            | 12      | 0         |            | 23.10                     | 0.5            | 23.60      | 2.00          | 33.01           | PASS    |
|                                          |            | 12      | 6         |            | 23.15                     | 0.5            | 23.65      | 2.00          | 33.01           | PASS    |
|                                          |            | 12      | 11        |            | 23.04                     | 0.5            | 23.54      | 2.00          | 33.01           | PASS    |
|                                          |            | 25      | 0         |            | 22.88                     | 0.5            | 23.38      | 2.00          | 33.01           | PASS    |
|                                          | Highest    | 1       | 0         | QPSK       | 23.59                     | 0.5            | 24.09      | 2.00          | 33.01           | PASS    |
|                                          |            | 1       | 12        |            | 23.54                     | 0.5            | 24.04      | 2.00          | 33.01           | PASS    |
|                                          |            | 1       | 24        |            | 23.35                     | 0.5            | 23.85      | 2.00          | 33.01           | PASS    |
|                                          |            | 12      | 0         |            | 23.18                     | 0.5            | 23.68      | 2.00          | 33.01           | PASS    |
|                                          |            | 12      | 6         |            | 23.09                     | 0.5            | 23.59      | 2.00          | 33.01           | PASS    |
|                                          |            | 12      | 11        |            | 23.08                     | 0.5            | 23.58      | 2.00          | 33.01           | PASS    |
|                                          |            | 25      | 0         |            | 22.93                     | 0.5            | 23.43      | 2.00          | 33.01           | PASS    |
|                                          |            | 1       | 0         | 16QAM      | 23.52                     | 0.5            | 24.02      | 2.00          | 33.01           | PASS    |
|                                          |            | 1       | 12        |            | 23.37                     | 0.5            | 23.87      | 2.00          | 33.01           | PASS    |
|                                          |            | 1       | 24        |            | 23.26                     | 0.5            | 23.76      | 2.00          | 33.01           | PASS    |
|                                          |            | 12      | 0         |            | 23.07                     | 0.5            | 23.57      | 2.00          | 33.01           | PASS    |
|                                          |            | 12      | 6         |            | 23.04                     | 0.5            | 23.54      | 2.00          | 33.01           | PASS    |
|                                          |            | 12      | 11        |            | 23.08                     | 0.5            | 23.58      | 2.00          | 33.01           | PASS    |
|                                          |            | 25      | 0         |            | 22.75                     | 0.5            | 23.25      | 2.00          | 33.01           | PASS    |



| Radiated Power (EIRP) for LTE Band 2 /10M |            |         |           |            |                           |                |            |               |                 |         |
|-------------------------------------------|------------|---------|-----------|------------|---------------------------|----------------|------------|---------------|-----------------|---------|
| BW (MHz)                                  | UL Channel | RB Size | RB offset | Modulation | Conduction AVG Power(dBm) | Ant Gain (dBi) | EIRP (dBm) | EIRP Limit(W) | EIRP Limit(dBm) | Verdict |
| 10                                        | Lowest     | 1       | 0         | QPSK       | 23.56                     | 0.5            | 24.06      | 2.00          | 33.01           | PASS    |
|                                           |            | 1       | 24        |            | 23.43                     | 0.5            | 23.93      | 2.00          | 33.01           | PASS    |
|                                           |            | 1       | 49        |            | 23.26                     | 0.5            | 23.76      | 2.00          | 33.01           | PASS    |
|                                           |            | 25      | 0         |            | 23.07                     | 0.5            | 23.57      | 2.00          | 33.01           | PASS    |
|                                           |            | 25      | 12        |            | 22.97                     | 0.5            | 23.47      | 2.00          | 33.01           | PASS    |
|                                           |            | 25      | 24        |            | 22.81                     | 0.5            | 23.31      | 2.00          | 33.01           | PASS    |
|                                           |            | 50      | 0         |            | 22.68                     | 0.5            | 23.18      | 2.00          | 33.01           | PASS    |
|                                           |            | 1       | 0         | 16QAM      | 23.53                     | 0.5            | 24.03      | 2.00          | 33.01           | PASS    |
|                                           |            | 1       | 24        |            | 23.43                     | 0.5            | 23.93      | 2.00          | 33.01           | PASS    |
|                                           |            | 1       | 49        |            | 23.08                     | 0.5            | 23.58      | 2.00          | 33.01           | PASS    |
|                                           |            | 25      | 0         |            | 22.88                     | 0.5            | 23.38      | 2.00          | 33.01           | PASS    |
|                                           |            | 25      | 12        |            | 22.94                     | 0.5            | 23.44      | 2.00          | 33.01           | PASS    |
|                                           |            | 25      | 24        |            | 22.63                     | 0.5            | 23.13      | 2.00          | 33.01           | PASS    |
|                                           |            | 50      | 0         |            | 22.67                     | 0.5            | 23.17      | 2.00          | 33.01           | PASS    |
|                                           | Middle     | 1       | 0         | QPSK       | 23.62                     | 0.5            | 24.12      | 2.00          | 33.01           | PASS    |
|                                           |            | 1       | 24        |            | 23.48                     | 0.5            | 23.98      | 2.00          | 33.01           | PASS    |
|                                           |            | 1       | 49        |            | 23.37                     | 0.5            | 23.87      | 2.00          | 33.01           | PASS    |
|                                           |            | 25      | 0         |            | 23.34                     | 0.5            | 23.84      | 2.00          | 33.01           | PASS    |
|                                           |            | 25      | 12        |            | 23.21                     | 0.5            | 23.71      | 2.00          | 33.01           | PASS    |
|                                           |            | 25      | 24        |            | 23.15                     | 0.5            | 23.65      | 2.00          | 33.01           | PASS    |
|                                           |            | 50      | 0         |            | 23.03                     | 0.5            | 23.53      | 2.00          | 33.01           | PASS    |
|                                           |            | 1       | 0         | 16QAM      | 23.60                     | 0.5            | 24.10      | 2.00          | 33.01           | PASS    |
|                                           |            | 1       | 24        |            | 23.43                     | 0.5            | 23.93      | 2.00          | 33.01           | PASS    |
|                                           |            | 1       | 49        |            | 23.24                     | 0.5            | 23.74      | 2.00          | 33.01           | PASS    |
|                                           |            | 25      | 0         |            | 23.16                     | 0.5            | 23.66      | 2.00          | 33.01           | PASS    |
|                                           |            | 25      | 12        |            | 23.21                     | 0.5            | 23.71      | 2.00          | 33.01           | PASS    |
|                                           |            | 25      | 24        |            | 22.98                     | 0.5            | 23.48      | 2.00          | 33.01           | PASS    |
|                                           |            | 50      | 0         |            | 22.87                     | 0.5            | 23.37      | 2.00          | 33.01           | PASS    |
|                                           | Highest    | 1       | 0         | QPSK       | 23.63                     | 0.5            | 24.13      | 2.00          | 33.01           | PASS    |
|                                           |            | 1       | 24        |            | 23.46                     | 0.5            | 23.96      | 2.00          | 33.01           | PASS    |
|                                           |            | 1       | 49        |            | 23.39                     | 0.5            | 23.89      | 2.00          | 33.01           | PASS    |
|                                           |            | 25      | 0         |            | 23.25                     | 0.5            | 23.75      | 2.00          | 33.01           | PASS    |
|                                           |            | 25      | 12        |            | 23.08                     | 0.5            | 23.58      | 2.00          | 33.01           | PASS    |
|                                           |            | 25      | 24        |            | 23.05                     | 0.5            | 23.55      | 2.00          | 33.01           | PASS    |
|                                           |            | 50      | 0         |            | 23.03                     | 0.5            | 23.53      | 2.00          | 33.01           | PASS    |
|                                           |            | 1       | 0         | 16QAM      | 23.56                     | 0.5            | 24.06      | 2.00          | 33.01           | PASS    |
|                                           |            | 1       | 24        |            | 23.39                     | 0.5            | 23.89      | 2.00          | 33.01           | PASS    |
|                                           |            | 1       | 49        |            | 23.23                     | 0.5            | 23.73      | 2.00          | 33.01           | PASS    |
|                                           |            | 25      | 0         |            | 23.11                     | 0.5            | 23.61      | 2.00          | 33.01           | PASS    |
|                                           |            | 25      | 12        |            | 23.04                     | 0.5            | 23.54      | 2.00          | 33.01           | PASS    |
|                                           |            | 25      | 24        |            | 22.85                     | 0.5            | 23.35      | 2.00          | 33.01           | PASS    |
|                                           |            | 50      | 0         |            | 23.01                     | 0.5            | 23.51      | 2.00          | 33.01           | PASS    |



| Radiated Power (EIRP) for LTE Band 2 /15M |            |         |           |            |                           |                |            |               |                 |         |
|-------------------------------------------|------------|---------|-----------|------------|---------------------------|----------------|------------|---------------|-----------------|---------|
| BW (MHz)                                  | UL Channel | RB Size | RB offset | Modulation | Conduction AVG Power(dBm) | Ant Gain (dBi) | EIRP (dBm) | EIRP Limit(W) | EIRP Limit(dBm) | Verdict |
| 15                                        | Lowest     | 1       | 0         | QPSK       | 23.65                     | 0.5            | 24.15      | 2.00          | 33.01           | PASS    |
|                                           |            | 1       | 37        |            | 23.63                     | 0.5            | 24.13      | 2.00          | 33.01           | PASS    |
|                                           |            | 1       | 74        |            | 23.49                     | 0.5            | 23.99      | 2.00          | 33.01           | PASS    |
|                                           |            | 36      | 0         |            | 23.36                     | 0.5            | 23.86      | 2.00          | 33.01           | PASS    |
|                                           |            | 36      | 18        |            | 23.20                     | 0.5            | 23.70      | 2.00          | 33.01           | PASS    |
|                                           |            | 36      | 39        |            | 23.20                     | 0.5            | 23.70      | 2.00          | 33.01           | PASS    |
|                                           |            | 75      | 0         |            | 23.18                     | 0.5            | 23.68      | 2.00          | 33.01           | PASS    |
|                                           |            | 1       | 0         | 16QAM      | 23.48                     | 0.5            | 23.98      | 2.00          | 33.01           | PASS    |
|                                           |            | 1       | 37        |            | 23.53                     | 0.5            | 24.03      | 2.00          | 33.01           | PASS    |
|                                           |            | 1       | 74        |            | 23.37                     | 0.5            | 23.87      | 2.00          | 33.01           | PASS    |
|                                           |            | 36      | 0         |            | 23.24                     | 0.5            | 23.74      | 2.00          | 33.01           | PASS    |
|                                           |            | 36      | 18        |            | 23.19                     | 0.5            | 23.69      | 2.00          | 33.01           | PASS    |
|                                           |            | 36      | 39        |            | 23.12                     | 0.5            | 23.62      | 2.00          | 33.01           | PASS    |
|                                           |            | 75      | 0         |            | 23.15                     | 0.5            | 23.65      | 2.00          | 33.01           | PASS    |
|                                           | Middle     | 1       | 0         | QPSK       | 23.68                     | 0.5            | 24.18      | 2.00          | 33.01           | PASS    |
|                                           |            | 1       | 37        |            | 23.60                     | 0.5            | 24.10      | 2.00          | 33.01           | PASS    |
|                                           |            | 1       | 74        |            | 23.43                     | 0.5            | 23.93      | 2.00          | 33.01           | PASS    |
|                                           |            | 36      | 0         |            | 23.25                     | 0.5            | 23.75      | 2.00          | 33.01           | PASS    |
|                                           |            | 36      | 18        |            | 23.19                     | 0.5            | 23.69      | 2.00          | 33.01           | PASS    |
|                                           |            | 36      | 39        |            | 23.05                     | 0.5            | 23.55      | 2.00          | 33.01           | PASS    |
|                                           |            | 75      | 0         |            | 22.99                     | 0.5            | 23.49      | 2.00          | 33.01           | PASS    |
|                                           |            | 1       | 0         | 16QAM      | 23.62                     | 0.5            | 24.12      | 2.00          | 33.01           | PASS    |
|                                           |            | 1       | 37        |            | 23.43                     | 0.5            | 23.93      | 2.00          | 33.01           | PASS    |
|                                           |            | 1       | 74        |            | 23.41                     | 0.5            | 23.91      | 2.00          | 33.01           | PASS    |
|                                           |            | 36      | 0         |            | 23.21                     | 0.5            | 23.71      | 2.00          | 33.01           | PASS    |
|                                           |            | 36      | 18        |            | 23.03                     | 0.5            | 23.53      | 2.00          | 33.01           | PASS    |
|                                           |            | 36      | 39        |            | 22.87                     | 0.5            | 23.37      | 2.00          | 33.01           | PASS    |
|                                           |            | 75      | 0         |            | 22.92                     | 0.5            | 23.42      | 2.00          | 33.01           | PASS    |
|                                           | Highest    | 1       | 0         | QPSK       | 23.72                     | 0.5            | 24.22      | 2.00          | 33.01           | PASS    |
|                                           |            | 1       | 37        |            | 23.55                     | 0.5            | 24.05      | 2.00          | 33.01           | PASS    |
|                                           |            | 1       | 74        |            | 23.44                     | 0.5            | 23.94      | 2.00          | 33.01           | PASS    |
|                                           |            | 36      | 0         |            | 23.34                     | 0.5            | 23.84      | 2.00          | 33.01           | PASS    |
|                                           |            | 36      | 18        |            | 23.28                     | 0.5            | 23.78      | 2.00          | 33.01           | PASS    |
|                                           |            | 36      | 39        |            | 23.12                     | 0.5            | 23.62      | 2.00          | 33.01           | PASS    |
|                                           |            | 75      | 0         |            | 23.04                     | 0.5            | 23.54      | 2.00          | 33.01           | PASS    |
|                                           |            | 1       | 0         | 16QAM      | 23.66                     | 0.5            | 24.16      | 2.00          | 33.01           | PASS    |
|                                           |            | 1       | 37        |            | 23.53                     | 0.5            | 24.03      | 2.00          | 33.01           | PASS    |
|                                           |            | 1       | 74        |            | 23.26                     | 0.5            | 23.76      | 2.00          | 33.01           | PASS    |
|                                           |            | 36      | 0         |            | 23.30                     | 0.5            | 23.80      | 2.00          | 33.01           | PASS    |
|                                           |            | 36      | 18        |            | 23.27                     | 0.5            | 23.77      | 2.00          | 33.01           | PASS    |
|                                           |            | 36      | 39        |            | 22.96                     | 0.5            | 23.46      | 2.00          | 33.01           | PASS    |
|                                           |            | 75      | 0         |            | 22.88                     | 0.5            | 23.38      | 2.00          | 33.01           | PASS    |



| Radiated Power (EIRP) for LTE Band 2 /20M |            |         |           |            |                           |                |            |               |                 |         |
|-------------------------------------------|------------|---------|-----------|------------|---------------------------|----------------|------------|---------------|-----------------|---------|
| BW (MHz)                                  | UL Channel | RB Size | RB offset | Modulation | Conduction AVG Power(dBm) | Ant Gain (dBi) | EIRP (dBm) | EIRP Limit(W) | EIRP Limit(dBm) | Verdict |
| 20                                        | Lowest     | 1       | 0         | QPSK       | 23.89                     | 0.5            | 24.39      | 2.00          | 33.01           | PASS    |
|                                           |            | 1       | 49        |            | 23.74                     | 0.5            | 24.24      | 2.00          | 33.01           | PASS    |
|                                           |            | 1       | 99        |            | 23.59                     | 0.5            | 24.09      | 2.00          | 33.01           | PASS    |
|                                           |            | 50      | 0         |            | 23.59                     | 0.5            | 24.09      | 2.00          | 33.01           | PASS    |
|                                           |            | 50      | 24        |            | 23.47                     | 0.5            | 23.97      | 2.00          | 33.01           | PASS    |
|                                           |            | 50      | 49        |            | 23.30                     | 0.5            | 23.80      | 2.00          | 33.01           | PASS    |
|                                           |            | 100     | 0         |            | 23.26                     | 0.5            | 23.76      | 2.00          | 33.01           | PASS    |
|                                           |            | 1       | 0         | 16QAM      | 23.74                     | 0.5            | 24.24      | 2.00          | 33.01           | PASS    |
|                                           |            | 1       | 49        |            | 23.70                     | 0.5            | 24.20      | 2.00          | 33.01           | PASS    |
|                                           |            | 1       | 99        |            | 23.47                     | 0.5            | 23.97      | 2.00          | 33.01           | PASS    |
|                                           |            | 50      | 0         |            | 23.42                     | 0.5            | 23.92      | 2.00          | 33.01           | PASS    |
|                                           |            | 50      | 24        |            | 23.41                     | 0.5            | 23.91      | 2.00          | 33.01           | PASS    |
|                                           |            | 50      | 49        |            | 23.12                     | 0.5            | 23.62      | 2.00          | 33.01           | PASS    |
|                                           |            | 100     | 0         |            | 23.21                     | 0.5            | 23.71      | 2.00          | 33.01           | PASS    |
|                                           | Middle     | 1       | 0         | QPSK       | 23.95                     | 0.5            | 24.45      | 2.00          | 33.01           | PASS    |
|                                           |            | 1       | 49        |            | 23.94                     | 0.5            | 24.44      | 2.00          | 33.01           | PASS    |
|                                           |            | 1       | 99        |            | 23.77                     | 0.5            | 24.27      | 2.00          | 33.01           | PASS    |
|                                           |            | 50      | 0         |            | 23.76                     | 0.5            | 24.26      | 2.00          | 33.01           | PASS    |
|                                           |            | 50      | 24        |            | 23.59                     | 0.5            | 24.09      | 2.00          | 33.01           | PASS    |
|                                           |            | 50      | 49        |            | 23.57                     | 0.5            | 24.07      | 2.00          | 33.01           | PASS    |
|                                           |            | 100     | 0         |            | 23.55                     | 0.5            | 24.05      | 2.00          | 33.01           | PASS    |
|                                           |            | 1       | 0         | 16QAM      | 23.79                     | 0.5            | 24.29      | 2.00          | 33.01           | PASS    |
|                                           |            | 1       | 49        |            | 23.85                     | 0.5            | 24.35      | 2.00          | 33.01           | PASS    |
|                                           |            | 1       | 99        |            | 23.67                     | 0.5            | 24.17      | 2.00          | 33.01           | PASS    |
|                                           |            | 50      | 0         |            | 23.73                     | 0.5            | 24.23      | 2.00          | 33.01           | PASS    |
|                                           |            | 50      | 24        |            | 23.44                     | 0.5            | 23.94      | 2.00          | 33.01           | PASS    |
|                                           |            | 50      | 49        |            | 23.52                     | 0.5            | 24.02      | 2.00          | 33.01           | PASS    |
|                                           |            | 100     | 0         |            | 23.37                     | 0.5            | 23.87      | 2.00          | 33.01           | PASS    |
|                                           | Highest    | 1       | 0         | QPSK       | 23.99                     | 0.5            | 24.49      | 2.00          | 33.01           | PASS    |
|                                           |            | 1       | 49        |            | 23.90                     | 0.5            | 24.40      | 2.00          | 33.01           | PASS    |
|                                           |            | 1       | 99        |            | 23.90                     | 0.5            | 24.40      | 2.00          | 33.01           | PASS    |
|                                           |            | 50      | 0         |            | 23.83                     | 0.5            | 24.33      | 2.00          | 33.01           | PASS    |
|                                           |            | 50      | 24        |            | 23.69                     | 0.5            | 24.19      | 2.00          | 33.01           | PASS    |
|                                           |            | 50      | 49        |            | 23.52                     | 0.5            | 24.02      | 2.00          | 33.01           | PASS    |
|                                           |            | 100     | 0         |            | 23.48                     | 0.5            | 23.98      | 2.00          | 33.01           | PASS    |
|                                           |            | 1       | 0         | 16QAM      | 23.90                     | 0.5            | 24.40      | 2.00          | 33.01           | PASS    |
|                                           |            | 1       | 49        |            | 23.90                     | 0.5            | 24.40      | 2.00          | 33.01           | PASS    |
|                                           |            | 1       | 99        |            | 23.83                     | 0.5            | 24.33      | 2.00          | 33.01           | PASS    |
|                                           |            | 50      | 0         |            | 23.82                     | 0.5            | 24.32      | 2.00          | 33.01           | PASS    |
|                                           |            | 50      | 24        |            | 23.53                     | 0.5            | 24.03      | 2.00          | 33.01           | PASS    |
|                                           |            | 50      | 49        |            | 23.44                     | 0.5            | 23.94      | 2.00          | 33.01           | PASS    |
|                                           |            | 100     | 0         |            | 23.47                     | 0.5            | 23.97      | 2.00          | 33.01           | PASS    |



| Radiated Power (EIRP) for LTE Band 4 /1.4M |            |         |           |            |                           |                |            |               |                 |         |
|--------------------------------------------|------------|---------|-----------|------------|---------------------------|----------------|------------|---------------|-----------------|---------|
| BW (MHz)                                   | UL Channel | RB Size | RB offset | Modulation | Conduction AVG Power(dBm) | Ant Gain (dBi) | EIRP (dBm) | EIRP Limit(W) | EIRP Limit(dBm) | Verdict |
| 1.4                                        | Lowest     | 1       | 0         | QPSK       | 23.23                     | 0.5            | 23.73      | 1.00          | 30.00           | PASS    |
|                                            |            | 1       | 2         |            | 23.19                     | 0.5            | 23.69      | 1.00          | 30.00           | PASS    |
|                                            |            | 1       | 5         |            | 23.13                     | 0.5            | 23.63      | 1.00          | 30.00           | PASS    |
|                                            |            | 3       | 0         |            | 23.03                     | 0.5            | 23.53      | 1.00          | 30.00           | PASS    |
|                                            |            | 3       | 1         |            | 22.94                     | 0.5            | 23.44      | 1.00          | 30.00           | PASS    |
|                                            |            | 3       | 2         |            | 22.82                     | 0.5            | 23.32      | 1.00          | 30.00           | PASS    |
|                                            |            | 6       | 0         |            | 22.65                     | 0.5            | 23.15      | 1.00          | 30.00           | PASS    |
|                                            |            | 1       | 0         | 16QAM      | 23.20                     | 0.5            | 23.70      | 1.00          | 30.00           | PASS    |
|                                            |            | 1       | 2         |            | 23.18                     | 0.5            | 23.68      | 1.00          | 30.00           | PASS    |
|                                            |            | 1       | 5         |            | 23.10                     | 0.5            | 23.60      | 1.00          | 30.00           | PASS    |
|                                            |            | 3       | 0         |            | 22.97                     | 0.5            | 23.47      | 1.00          | 30.00           | PASS    |
|                                            |            | 3       | 1         |            | 22.78                     | 0.5            | 23.28      | 1.00          | 30.00           | PASS    |
|                                            |            | 3       | 2         |            | 22.69                     | 0.5            | 23.19      | 1.00          | 30.00           | PASS    |
|                                            |            | 6       | 0         |            | 22.57                     | 0.5            | 23.07      | 1.00          | 30.00           | PASS    |
|                                            | Middle     | 1       | 0         | QPSK       | 23.12                     | 0.5            | 23.62      | 1.00          | 30.00           | PASS    |
|                                            |            | 1       | 2         |            | 23.07                     | 0.5            | 23.57      | 1.00          | 30.00           | PASS    |
|                                            |            | 1       | 5         |            | 23.06                     | 0.5            | 23.56      | 1.00          | 30.00           | PASS    |
|                                            |            | 3       | 0         |            | 23.03                     | 0.5            | 23.53      | 1.00          | 30.00           | PASS    |
|                                            |            | 3       | 1         |            | 22.87                     | 0.5            | 23.37      | 1.00          | 30.00           | PASS    |
|                                            |            | 3       | 2         |            | 22.80                     | 0.5            | 23.30      | 1.00          | 30.00           | PASS    |
|                                            |            | 6       | 0         |            | 22.79                     | 0.5            | 23.29      | 1.00          | 30.00           | PASS    |
|                                            |            | 1       | 0         | 16QAM      | 23.03                     | 0.5            | 23.53      | 1.00          | 30.00           | PASS    |
|                                            |            | 1       | 2         |            | 23.07                     | 0.5            | 23.57      | 1.00          | 30.00           | PASS    |
|                                            |            | 1       | 5         |            | 23.05                     | 0.5            | 23.55      | 1.00          | 30.00           | PASS    |
|                                            |            | 3       | 0         |            | 22.98                     | 0.5            | 23.48      | 1.00          | 30.00           | PASS    |
|                                            |            | 3       | 1         |            | 22.70                     | 0.5            | 23.20      | 1.00          | 30.00           | PASS    |
|                                            |            | 3       | 2         |            | 22.65                     | 0.5            | 23.15      | 1.00          | 30.00           | PASS    |
|                                            |            | 6       | 0         |            | 22.76                     | 0.5            | 23.26      | 1.00          | 30.00           | PASS    |
|                                            | Highest    | 1       | 0         | QPSK       | 23.35                     | 0.5            | 23.85      | 1.00          | 30.00           | PASS    |
|                                            |            | 1       | 2         |            | 23.15                     | 0.5            | 23.65      | 1.00          | 30.00           | PASS    |
|                                            |            | 1       | 5         |            | 22.95                     | 0.5            | 23.45      | 1.00          | 30.00           | PASS    |
|                                            |            | 3       | 0         |            | 22.94                     | 0.5            | 23.44      | 1.00          | 30.00           | PASS    |
|                                            |            | 3       | 1         |            | 22.85                     | 0.5            | 23.35      | 1.00          | 30.00           | PASS    |
|                                            |            | 3       | 2         |            | 22.82                     | 0.5            | 23.32      | 1.00          | 30.00           | PASS    |
|                                            |            | 6       | 0         |            | 22.70                     | 0.5            | 23.20      | 1.00          | 30.00           | PASS    |
|                                            |            | 1       | 0         | 16QAM      | 23.22                     | 0.5            | 23.72      | 1.00          | 30.00           | PASS    |
|                                            |            | 1       | 2         |            | 23.10                     | 0.5            | 23.60      | 1.00          | 30.00           | PASS    |
|                                            |            | 1       | 5         |            | 22.78                     | 0.5            | 23.28      | 1.00          | 30.00           | PASS    |
|                                            |            | 3       | 0         |            | 22.77                     | 0.5            | 23.27      | 1.00          | 30.00           | PASS    |
|                                            |            | 3       | 1         |            | 22.72                     | 0.5            | 23.22      | 1.00          | 30.00           | PASS    |
|                                            |            | 3       | 2         |            | 22.62                     | 0.5            | 23.12      | 1.00          | 30.00           | PASS    |
|                                            |            | 6       | 0         |            | 22.68                     | 0.5            | 23.18      | 1.00          | 30.00           | PASS    |



| Radiated Power (EIRP) for LTE Band 4 /3M |            |         |           |            |                           |                |            |               |                 |         |
|------------------------------------------|------------|---------|-----------|------------|---------------------------|----------------|------------|---------------|-----------------|---------|
| BW (MHz)                                 | UL Channel | RB Size | RB offset | Modulation | Conduction AVG Power(dBm) | Ant Gain (dBi) | EIRP (dBm) | EIRP Limit(W) | EIRP Limit(dBm) | Verdict |
| 3                                        | Lowest     | 1       | 0         | QPSK       | 23.22                     | 0.5            | 23.72      | 1.00          | 30.00           | PASS    |
|                                          |            | 1       | 7         |            | 23.08                     | 0.5            | 23.58      | 1.00          | 30.00           | PASS    |
|                                          |            | 1       | 14        |            | 22.94                     | 0.5            | 23.44      | 1.00          | 30.00           | PASS    |
|                                          |            | 8       | 0         |            | 22.83                     | 0.5            | 23.33      | 1.00          | 30.00           | PASS    |
|                                          |            | 8       | 4         |            | 22.65                     | 0.5            | 23.15      | 1.00          | 30.00           | PASS    |
|                                          |            | 8       | 7         |            | 22.46                     | 0.5            | 22.96      | 1.00          | 30.00           | PASS    |
|                                          |            | 15      | 0         |            | 22.30                     | 0.5            | 22.80      | 1.00          | 30.00           | PASS    |
|                                          |            | 1       | 0         | 16QAM      | 23.11                     | 0.5            | 23.61      | 1.00          | 30.00           | PASS    |
|                                          |            | 1       | 7         |            | 22.93                     | 0.5            | 23.43      | 1.00          | 30.00           | PASS    |
|                                          |            | 1       | 14        |            | 22.94                     | 0.5            | 23.44      | 1.00          | 30.00           | PASS    |
|                                          |            | 8       | 0         |            | 22.80                     | 0.5            | 23.30      | 1.00          | 30.00           | PASS    |
|                                          |            | 8       | 4         |            | 22.62                     | 0.5            | 23.12      | 1.00          | 30.00           | PASS    |
|                                          |            | 8       | 7         |            | 22.37                     | 0.5            | 22.87      | 1.00          | 30.00           | PASS    |
|                                          |            | 15      | 0         |            | 22.11                     | 0.5            | 22.61      | 1.00          | 30.00           | PASS    |
|                                          | Middle     | 1       | 0         | QPSK       | 23.26                     | 0.5            | 23.76      | 1.00          | 30.00           | PASS    |
|                                          |            | 1       | 7         |            | 23.22                     | 0.5            | 23.72      | 1.00          | 30.00           | PASS    |
|                                          |            | 1       | 14        |            | 23.18                     | 0.5            | 23.68      | 1.00          | 30.00           | PASS    |
|                                          |            | 8       | 0         |            | 23.03                     | 0.5            | 23.53      | 1.00          | 30.00           | PASS    |
|                                          |            | 8       | 4         |            | 22.86                     | 0.5            | 23.36      | 1.00          | 30.00           | PASS    |
|                                          |            | 8       | 7         |            | 22.71                     | 0.5            | 23.21      | 1.00          | 30.00           | PASS    |
|                                          |            | 15      | 0         |            | 22.69                     | 0.5            | 23.19      | 1.00          | 30.00           | PASS    |
|                                          |            | 1       | 0         | 16QAM      | 23.19                     | 0.5            | 23.69      | 1.00          | 30.00           | PASS    |
|                                          |            | 1       | 7         |            | 23.15                     | 0.5            | 23.65      | 1.00          | 30.00           | PASS    |
|                                          |            | 1       | 14        |            | 22.99                     | 0.5            | 23.49      | 1.00          | 30.00           | PASS    |
|                                          |            | 8       | 0         |            | 22.85                     | 0.5            | 23.35      | 1.00          | 30.00           | PASS    |
|                                          |            | 8       | 4         |            | 22.70                     | 0.5            | 23.20      | 1.00          | 30.00           | PASS    |
|                                          |            | 8       | 7         |            | 22.53                     | 0.5            | 23.03      | 1.00          | 30.00           | PASS    |
|                                          |            | 15      | 0         |            | 22.57                     | 0.5            | 23.07      | 1.00          | 30.00           | PASS    |
|                                          | Highest    | 1       | 0         | QPSK       | 23.34                     | 0.5            | 23.84      | 1.00          | 30.00           | PASS    |
|                                          |            | 1       | 7         |            | 23.16                     | 0.5            | 23.66      | 1.00          | 30.00           | PASS    |
|                                          |            | 1       | 14        |            | 23.03                     | 0.5            | 23.53      | 1.00          | 30.00           | PASS    |
|                                          |            | 8       | 0         |            | 22.99                     | 0.5            | 23.49      | 1.00          | 30.00           | PASS    |
|                                          |            | 8       | 4         |            | 22.91                     | 0.5            | 23.41      | 1.00          | 30.00           | PASS    |
|                                          |            | 8       | 7         |            | 22.85                     | 0.5            | 23.35      | 1.00          | 30.00           | PASS    |
|                                          |            | 15      | 0         |            | 22.73                     | 0.5            | 23.23      | 1.00          | 30.00           | PASS    |
|                                          |            | 1       | 0         | 16QAM      | 23.26                     | 0.5            | 23.76      | 1.00          | 30.00           | PASS    |
|                                          |            | 1       | 7         |            | 22.99                     | 0.5            | 23.49      | 1.00          | 30.00           | PASS    |
|                                          |            | 1       | 14        |            | 22.95                     | 0.5            | 23.45      | 1.00          | 30.00           | PASS    |
|                                          |            | 8       | 0         |            | 22.94                     | 0.5            | 23.44      | 1.00          | 30.00           | PASS    |
|                                          |            | 8       | 4         |            | 22.78                     | 0.5            | 23.28      | 1.00          | 30.00           | PASS    |
|                                          |            | 8       | 7         |            | 22.79                     | 0.5            | 23.29      | 1.00          | 30.00           | PASS    |
|                                          |            | 15      | 0         |            | 22.65                     | 0.5            | 23.15      | 1.00          | 30.00           | PASS    |



| Radiated Power (EIRP) for LTE Band 4 /5M |            |         |           |            |                           |                |            |               |                 |         |
|------------------------------------------|------------|---------|-----------|------------|---------------------------|----------------|------------|---------------|-----------------|---------|
| BW (MHz)                                 | UL Channel | RB Size | RB offset | Modulation | Conduction AVG Power(dBm) | Ant Gain (dBi) | EIRP (dBm) | EIRP Limit(W) | EIRP Limit(dBm) | Verdict |
| 5                                        | Lowest     | 1       | 0         | QPSK       | 23.32                     | 0.5            | 23.82      | 1.00          | 30.00           | PASS    |
|                                          |            | 1       | 12        |            | 23.27                     | 0.5            | 23.77      | 1.00          | 30.00           | PASS    |
|                                          |            | 1       | 24        |            | 23.25                     | 0.5            | 23.75      | 1.00          | 30.00           | PASS    |
|                                          |            | 12      | 0         |            | 23.09                     | 0.5            | 23.59      | 1.00          | 30.00           | PASS    |
|                                          |            | 12      | 6         |            | 22.89                     | 0.5            | 23.39      | 1.00          | 30.00           | PASS    |
|                                          |            | 12      | 11        |            | 22.70                     | 0.5            | 23.20      | 1.00          | 30.00           | PASS    |
|                                          |            | 25      | 0         |            | 22.69                     | 0.5            | 23.19      | 1.00          | 30.00           | PASS    |
|                                          |            | 1       | 0         | 16QAM      | 23.20                     | 0.5            | 23.70      | 1.00          | 30.00           | PASS    |
|                                          |            | 1       | 12        |            | 23.25                     | 0.5            | 23.75      | 1.00          | 30.00           | PASS    |
|                                          |            | 1       | 24        |            | 23.21                     | 0.5            | 23.71      | 1.00          | 30.00           | PASS    |
|                                          |            | 12      | 0         |            | 23.02                     | 0.5            | 23.52      | 1.00          | 30.00           | PASS    |
|                                          |            | 12      | 6         |            | 22.75                     | 0.5            | 23.25      | 1.00          | 30.00           | PASS    |
|                                          |            | 12      | 11        |            | 22.52                     | 0.5            | 23.02      | 1.00          | 30.00           | PASS    |
|                                          |            | 25      | 0         |            | 22.50                     | 0.5            | 23.00      | 1.00          | 30.00           | PASS    |
|                                          | Middle     | 1       | 0         | QPSK       | 23.39                     | 0.5            | 23.89      | 1.00          | 30.00           | PASS    |
|                                          |            | 1       | 12        |            | 23.23                     | 0.5            | 23.73      | 1.00          | 30.00           | PASS    |
|                                          |            | 1       | 24        |            | 23.06                     | 0.5            | 23.56      | 1.00          | 30.00           | PASS    |
|                                          |            | 12      | 0         |            | 22.88                     | 0.5            | 23.38      | 1.00          | 30.00           | PASS    |
|                                          |            | 12      | 6         |            | 22.77                     | 0.5            | 23.27      | 1.00          | 30.00           | PASS    |
|                                          |            | 12      | 11        |            | 22.63                     | 0.5            | 23.13      | 1.00          | 30.00           | PASS    |
|                                          |            | 25      | 0         |            | 22.49                     | 0.5            | 22.99      | 1.00          | 30.00           | PASS    |
|                                          |            | 1       | 0         | 16QAM      | 23.23                     | 0.5            | 23.73      | 1.00          | 30.00           | PASS    |
|                                          |            | 1       | 12        |            | 23.07                     | 0.5            | 23.57      | 1.00          | 30.00           | PASS    |
|                                          |            | 1       | 24        |            | 23.03                     | 0.5            | 23.53      | 1.00          | 30.00           | PASS    |
|                                          |            | 12      | 0         |            | 22.69                     | 0.5            | 23.19      | 1.00          | 30.00           | PASS    |
|                                          |            | 12      | 6         |            | 22.77                     | 0.5            | 23.27      | 1.00          | 30.00           | PASS    |
|                                          |            | 12      | 11        |            | 22.47                     | 0.5            | 22.97      | 1.00          | 30.00           | PASS    |
|                                          |            | 25      | 0         |            | 22.41                     | 0.5            | 22.91      | 1.00          | 30.00           | PASS    |
|                                          | Highest    | 1       | 0         | QPSK       | 23.45                     | 0.5            | 23.95      | 1.00          | 30.00           | PASS    |
|                                          |            | 1       | 12        |            | 23.36                     | 0.5            | 23.86      | 1.00          | 30.00           | PASS    |
|                                          |            | 1       | 24        |            | 23.30                     | 0.5            | 23.80      | 1.00          | 30.00           | PASS    |
|                                          |            | 12      | 0         |            | 23.11                     | 0.5            | 23.61      | 1.00          | 30.00           | PASS    |
|                                          |            | 12      | 6         |            | 23.07                     | 0.5            | 23.57      | 1.00          | 30.00           | PASS    |
|                                          |            | 12      | 11        |            | 22.88                     | 0.5            | 23.38      | 1.00          | 30.00           | PASS    |
|                                          |            | 25      | 0         |            | 22.73                     | 0.5            | 23.23      | 1.00          | 30.00           | PASS    |
|                                          |            | 1       | 0         | 16QAM      | 23.33                     | 0.5            | 23.83      | 1.00          | 30.00           | PASS    |
|                                          |            | 1       | 12        |            | 23.29                     | 0.5            | 23.79      | 1.00          | 30.00           | PASS    |
|                                          |            | 1       | 24        |            | 23.21                     | 0.5            | 23.71      | 1.00          | 30.00           | PASS    |
|                                          |            | 12      | 0         |            | 22.94                     | 0.5            | 23.44      | 1.00          | 30.00           | PASS    |
|                                          |            | 12      | 6         |            | 23.01                     | 0.5            | 23.51      | 1.00          | 30.00           | PASS    |
|                                          |            | 12      | 11        |            | 22.87                     | 0.5            | 23.37      | 1.00          | 30.00           | PASS    |
|                                          |            | 25      | 0         |            | 22.71                     | 0.5            | 23.21      | 1.00          | 30.00           | PASS    |



| Radiated Power (EIRP) for LTE Band 4 /10M |            |         |           |            |                           |                |            |               |                 |         |
|-------------------------------------------|------------|---------|-----------|------------|---------------------------|----------------|------------|---------------|-----------------|---------|
| BW (MHz)                                  | UL Channel | RB Size | RB offset | Modulation | Conduction AVG Power(dBm) | Ant Gain (dBi) | EIRP (dBm) | EIRP Limit(W) | EIRP Limit(dBm) | Verdict |
| 10                                        | Lowest     | 1       | 0         | QPSK       | 23.39                     | 0.5            | 23.89      | 1.00          | 30.00           | PASS    |
|                                           |            | 1       | 24        |            | 23.21                     | 0.5            | 23.71      | 1.00          | 30.00           | PASS    |
|                                           |            | 1       | 49        |            | 23.11                     | 0.5            | 23.61      | 1.00          | 30.00           | PASS    |
|                                           |            | 25      | 0         |            | 23.03                     | 0.5            | 23.53      | 1.00          | 30.00           | PASS    |
|                                           |            | 25      | 12        |            | 22.86                     | 0.5            | 23.36      | 1.00          | 30.00           | PASS    |
|                                           |            | 25      | 24        |            | 22.85                     | 0.5            | 23.35      | 1.00          | 30.00           | PASS    |
|                                           |            | 50      | 0         |            | 22.77                     | 0.5            | 23.27      | 1.00          | 30.00           | PASS    |
|                                           |            | 1       | 0         | 16QAM      | 23.28                     | 0.5            | 23.78      | 1.00          | 30.00           | PASS    |
|                                           |            | 1       | 24        |            | 23.02                     | 0.5            | 23.52      | 1.00          | 30.00           | PASS    |
|                                           |            | 1       | 49        |            | 23.01                     | 0.5            | 23.51      | 1.00          | 30.00           | PASS    |
|                                           |            | 25      | 0         |            | 22.84                     | 0.5            | 23.34      | 1.00          | 30.00           | PASS    |
|                                           |            | 25      | 12        |            | 22.70                     | 0.5            | 23.20      | 1.00          | 30.00           | PASS    |
|                                           |            | 25      | 24        |            | 22.77                     | 0.5            | 23.27      | 1.00          | 30.00           | PASS    |
|                                           |            | 50      | 0         |            | 22.73                     | 0.5            | 23.23      | 1.00          | 30.00           | PASS    |
|                                           | Middle     | 1       | 0         | QPSK       | 23.52                     | 0.5            | 24.02      | 1.00          | 30.00           | PASS    |
|                                           |            | 1       | 24        |            | 23.32                     | 0.5            | 23.82      | 1.00          | 30.00           | PASS    |
|                                           |            | 1       | 49        |            | 23.21                     | 0.5            | 23.71      | 1.00          | 30.00           | PASS    |
|                                           |            | 25      | 0         |            | 23.08                     | 0.5            | 23.58      | 1.00          | 30.00           | PASS    |
|                                           |            | 25      | 12        |            | 22.95                     | 0.5            | 23.45      | 1.00          | 30.00           | PASS    |
|                                           |            | 25      | 24        |            | 22.82                     | 0.5            | 23.32      | 1.00          | 30.00           | PASS    |
|                                           |            | 50      | 0         |            | 22.63                     | 0.5            | 23.13      | 1.00          | 30.00           | PASS    |
|                                           |            | 1       | 0         | 16QAM      | 23.36                     | 0.5            | 23.86      | 1.00          | 30.00           | PASS    |
|                                           |            | 1       | 24        |            | 23.31                     | 0.5            | 23.81      | 1.00          | 30.00           | PASS    |
|                                           |            | 1       | 49        |            | 23.17                     | 0.5            | 23.67      | 1.00          | 30.00           | PASS    |
|                                           |            | 25      | 0         |            | 22.97                     | 0.5            | 23.47      | 1.00          | 30.00           | PASS    |
|                                           |            | 25      | 12        |            | 22.80                     | 0.5            | 23.30      | 1.00          | 30.00           | PASS    |
|                                           |            | 25      | 24        |            | 22.74                     | 0.5            | 23.24      | 1.00          | 30.00           | PASS    |
|                                           |            | 50      | 0         |            | 22.53                     | 0.5            | 23.03      | 1.00          | 30.00           | PASS    |
|                                           | Highest    | 1       | 0         | QPSK       | 23.69                     | 0.5            | 24.19      | 1.00          | 30.00           | PASS    |
|                                           |            | 1       | 24        |            | 23.57                     | 0.5            | 24.07      | 1.00          | 30.00           | PASS    |
|                                           |            | 1       | 49        |            | 23.53                     | 0.5            | 24.03      | 1.00          | 30.00           | PASS    |
|                                           |            | 25      | 0         |            | 23.52                     | 0.5            | 24.02      | 1.00          | 30.00           | PASS    |
|                                           |            | 25      | 12        |            | 23.50                     | 0.5            | 24.00      | 1.00          | 30.00           | PASS    |
|                                           |            | 25      | 24        |            | 23.37                     | 0.5            | 23.87      | 1.00          | 30.00           | PASS    |
|                                           |            | 50      | 0         |            | 23.33                     | 0.5            | 23.83      | 1.00          | 30.00           | PASS    |
|                                           |            | 1       | 0         | 16QAM      | 23.58                     | 0.5            | 24.08      | 1.00          | 30.00           | PASS    |
|                                           |            | 1       | 24        |            | 23.51                     | 0.5            | 24.01      | 1.00          | 30.00           | PASS    |
|                                           |            | 1       | 49        |            | 23.40                     | 0.5            | 23.90      | 1.00          | 30.00           | PASS    |
|                                           |            | 25      | 0         |            | 23.34                     | 0.5            | 23.84      | 1.00          | 30.00           | PASS    |
|                                           |            | 25      | 12        |            | 23.41                     | 0.5            | 23.91      | 1.00          | 30.00           | PASS    |
|                                           |            | 25      | 24        |            | 23.36                     | 0.5            | 23.86      | 1.00          | 30.00           | PASS    |
|                                           |            | 50      | 0         |            | 23.32                     | 0.5            | 23.82      | 1.00          | 30.00           | PASS    |



| Radiated Power (EIRP) for LTE Band 4 /15M |            |         |           |            |                           |                |            |               |                 |         |
|-------------------------------------------|------------|---------|-----------|------------|---------------------------|----------------|------------|---------------|-----------------|---------|
| BW (MHz)                                  | UL Channel | RB Size | RB offset | Modulation | Conduction AVG Power(dBm) | Ant Gain (dBi) | EIRP (dBm) | EIRP Limit(W) | EIRP Limit(dBm) | Verdict |
| 15                                        | Lowest     | 1       | 0         | QPSK       | 23.58                     | 0.5            | 24.08      | 1.00          | 30.00           | PASS    |
|                                           |            | 1       | 37        |            | 23.53                     | 0.5            | 24.03      | 1.00          | 30.00           | PASS    |
|                                           |            | 1       | 74        |            | 23.50                     | 0.5            | 24.00      | 1.00          | 30.00           | PASS    |
|                                           |            | 36      | 0         |            | 23.48                     | 0.5            | 23.98      | 1.00          | 30.00           | PASS    |
|                                           |            | 36      | 18        |            | 23.37                     | 0.5            | 23.87      | 1.00          | 30.00           | PASS    |
|                                           |            | 36      | 39        |            | 23.30                     | 0.5            | 23.80      | 1.00          | 30.00           | PASS    |
|                                           |            | 75      | 0         |            | 23.18                     | 0.5            | 23.68      | 1.00          | 30.00           | PASS    |
|                                           |            | 1       | 0         | 16QAM      | 23.54                     | 0.5            | 24.04      | 1.00          | 30.00           | PASS    |
|                                           |            | 1       | 37        |            | 23.35                     | 0.5            | 23.85      | 1.00          | 30.00           | PASS    |
|                                           |            | 1       | 74        |            | 23.42                     | 0.5            | 23.92      | 1.00          | 30.00           | PASS    |
|                                           |            | 36      | 0         |            | 23.37                     | 0.5            | 23.87      | 1.00          | 30.00           | PASS    |
|                                           |            | 36      | 18        |            | 23.34                     | 0.5            | 23.84      | 1.00          | 30.00           | PASS    |
|                                           |            | 36      | 39        |            | 23.22                     | 0.5            | 23.72      | 1.00          | 30.00           | PASS    |
|                                           |            | 75      | 0         |            | 23.06                     | 0.5            | 23.56      | 1.00          | 30.00           | PASS    |
|                                           | Middle     | 1       | 0         | QPSK       | 23.78                     | 0.5            | 24.28      | 1.00          | 30.00           | PASS    |
|                                           |            | 1       | 37        |            | 23.63                     | 0.5            | 24.13      | 1.00          | 30.00           | PASS    |
|                                           |            | 1       | 74        |            | 23.61                     | 0.5            | 24.11      | 1.00          | 30.00           | PASS    |
|                                           |            | 36      | 0         |            | 23.47                     | 0.5            | 23.97      | 1.00          | 30.00           | PASS    |
|                                           |            | 36      | 18        |            | 23.33                     | 0.5            | 23.83      | 1.00          | 30.00           | PASS    |
|                                           |            | 36      | 39        |            | 23.14                     | 0.5            | 23.64      | 1.00          | 30.00           | PASS    |
|                                           |            | 75      | 0         |            | 23.08                     | 0.5            | 23.58      | 1.00          | 30.00           | PASS    |
|                                           |            | 1       | 0         | 16QAM      | 23.64                     | 0.5            | 24.14      | 1.00          | 30.00           | PASS    |
|                                           |            | 1       | 37        |            | 23.48                     | 0.5            | 23.98      | 1.00          | 30.00           | PASS    |
|                                           |            | 1       | 74        |            | 23.58                     | 0.5            | 24.08      | 1.00          | 30.00           | PASS    |
|                                           |            | 36      | 0         |            | 23.36                     | 0.5            | 23.86      | 1.00          | 30.00           | PASS    |
|                                           |            | 36      | 18        |            | 23.31                     | 0.5            | 23.81      | 1.00          | 30.00           | PASS    |
|                                           |            | 36      | 39        |            | 23.13                     | 0.5            | 23.63      | 1.00          | 30.00           | PASS    |
|                                           |            | 75      | 0         |            | 22.89                     | 0.5            | 23.39      | 1.00          | 30.00           | PASS    |
|                                           | Highest    | 1       | 0         | QPSK       | 23.81                     | 0.5            | 24.31      | 1.00          | 30.00           | PASS    |
|                                           |            | 1       | 37        |            | 23.72                     | 0.5            | 24.22      | 1.00          | 30.00           | PASS    |
|                                           |            | 1       | 74        |            | 23.63                     | 0.5            | 24.13      | 1.00          | 30.00           | PASS    |
|                                           |            | 36      | 0         |            | 23.48                     | 0.5            | 23.98      | 1.00          | 30.00           | PASS    |
|                                           |            | 36      | 18        |            | 23.40                     | 0.5            | 23.90      | 1.00          | 30.00           | PASS    |
|                                           |            | 36      | 39        |            | 23.33                     | 0.5            | 23.83      | 1.00          | 30.00           | PASS    |
|                                           |            | 75      | 0         |            | 23.25                     | 0.5            | 23.75      | 1.00          | 30.00           | PASS    |
|                                           |            | 1       | 0         | 16QAM      | 23.71                     | 0.5            | 24.21      | 1.00          | 30.00           | PASS    |
|                                           |            | 1       | 37        |            | 23.61                     | 0.5            | 24.11      | 1.00          | 30.00           | PASS    |
|                                           |            | 1       | 74        |            | 23.51                     | 0.5            | 24.01      | 1.00          | 30.00           | PASS    |
|                                           |            | 36      | 0         |            | 23.44                     | 0.5            | 23.94      | 1.00          | 30.00           | PASS    |
|                                           |            | 36      | 18        |            | 23.39                     | 0.5            | 23.89      | 1.00          | 30.00           | PASS    |
|                                           |            | 36      | 39        |            | 23.14                     | 0.5            | 23.64      | 1.00          | 30.00           | PASS    |
|                                           |            | 75      | 0         |            | 23.25                     | 0.5            | 23.75      | 1.00          | 30.00           | PASS    |



| Radiated Power (EIRP) for LTE Band 4 /20M |            |         |           |            |                           |                |            |               |                 |         |
|-------------------------------------------|------------|---------|-----------|------------|---------------------------|----------------|------------|---------------|-----------------|---------|
| BW (MHz)                                  | UL Channel | RB Size | RB offset | Modulation | Conduction AVG Power(dBm) | Ant Gain (dBi) | EIRP (dBm) | EIRP Limit(W) | EIRP Limit(dBm) | Verdict |
| 20                                        | Lowest     | 1       | 0         | QPSK       | 24.23                     | 0.5            | 24.73      | 1.00          | 30.00           | PASS    |
|                                           |            | 1       | 49        |            | 24.16                     | 0.5            | 24.66      | 1.00          | 30.00           | PASS    |
|                                           |            | 1       | 99        |            | 24.11                     | 0.5            | 24.61      | 1.00          | 30.00           | PASS    |
|                                           |            | 50      | 0         |            | 23.95                     | 0.5            | 24.45      | 1.00          | 30.00           | PASS    |
|                                           |            | 50      | 24        |            | 23.91                     | 0.5            | 24.41      | 1.00          | 30.00           | PASS    |
|                                           |            | 50      | 49        |            | 23.79                     | 0.5            | 24.29      | 1.00          | 30.00           | PASS    |
|                                           |            | 100     | 0         |            | 23.76                     | 0.5            | 24.26      | 1.00          | 30.00           | PASS    |
|                                           |            | 1       | 0         | 16QAM      | 24.19                     | 0.5            | 24.69      | 1.00          | 30.00           | PASS    |
|                                           |            | 1       | 49        |            | 24.08                     | 0.5            | 24.58      | 1.00          | 30.00           | PASS    |
|                                           |            | 1       | 99        |            | 24.07                     | 0.5            | 24.57      | 1.00          | 30.00           | PASS    |
|                                           |            | 50      | 0         |            | 23.84                     | 0.5            | 24.34      | 1.00          | 30.00           | PASS    |
|                                           |            | 50      | 24        |            | 23.79                     | 0.5            | 24.29      | 1.00          | 30.00           | PASS    |
|                                           |            | 50      | 49        |            | 23.75                     | 0.5            | 24.25      | 1.00          | 30.00           | PASS    |
|                                           |            | 100     | 0         |            | 23.57                     | 0.5            | 24.07      | 1.00          | 30.00           | PASS    |
|                                           | Middle     | 1       | 0         | QPSK       | 24.35                     | 0.5            | 24.85      | 1.00          | 30.00           | PASS    |
|                                           |            | 1       | 49        |            | 24.31                     | 0.5            | 24.81      | 1.00          | 30.00           | PASS    |
|                                           |            | 1       | 99        |            | 24.15                     | 0.5            | 24.65      | 1.00          | 30.00           | PASS    |
|                                           |            | 50      | 0         |            | 24.05                     | 0.5            | 24.55      | 1.00          | 30.00           | PASS    |
|                                           |            | 50      | 24        |            | 23.92                     | 0.5            | 24.42      | 1.00          | 30.00           | PASS    |
|                                           |            | 50      | 49        |            | 23.72                     | 0.5            | 24.22      | 1.00          | 30.00           | PASS    |
|                                           |            | 100     | 0         |            | 23.57                     | 0.5            | 24.07      | 1.00          | 30.00           | PASS    |
|                                           |            | 1       | 0         | 16QAM      | 24.34                     | 0.5            | 24.84      | 1.00          | 30.00           | PASS    |
|                                           |            | 1       | 49        |            | 24.13                     | 0.5            | 24.63      | 1.00          | 30.00           | PASS    |
|                                           |            | 1       | 99        |            | 24.01                     | 0.5            | 24.51      | 1.00          | 30.00           | PASS    |
|                                           |            | 50      | 0         |            | 23.88                     | 0.5            | 24.38      | 1.00          | 30.00           | PASS    |
|                                           |            | 50      | 24        |            | 23.81                     | 0.5            | 24.31      | 1.00          | 30.00           | PASS    |
|                                           |            | 50      | 49        |            | 23.65                     | 0.5            | 24.15      | 1.00          | 30.00           | PASS    |
|                                           |            | 100     | 0         |            | 23.38                     | 0.5            | 23.88      | 1.00          | 30.00           | PASS    |
|                                           | Highest    | 1       | 0         | QPSK       | 24.69                     | 0.5            | 25.19      | 1.00          | 30.00           | PASS    |
|                                           |            | 1       | 49        |            | 24.50                     | 0.5            | 25.00      | 1.00          | 30.00           | PASS    |
|                                           |            | 1       | 99        |            | 24.43                     | 0.5            | 24.93      | 1.00          | 30.00           | PASS    |
|                                           |            | 50      | 0         |            | 24.32                     | 0.5            | 24.82      | 1.00          | 30.00           | PASS    |
|                                           |            | 50      | 24        |            | 24.18                     | 0.5            | 24.68      | 1.00          | 30.00           | PASS    |
|                                           |            | 50      | 49        |            | 24.08                     | 0.5            | 24.58      | 1.00          | 30.00           | PASS    |
|                                           |            | 100     | 0         |            | 23.90                     | 0.5            | 24.40      | 1.00          | 30.00           | PASS    |
|                                           |            | 1       | 0         | 16QAM      | 24.59                     | 0.5            | 25.09      | 1.00          | 30.00           | PASS    |
|                                           |            | 1       | 49        |            | 24.42                     | 0.5            | 24.92      | 1.00          | 30.00           | PASS    |
|                                           |            | 1       | 99        |            | 24.26                     | 0.5            | 24.76      | 1.00          | 30.00           | PASS    |
|                                           |            | 50      | 0         |            | 24.32                     | 0.5            | 24.82      | 1.00          | 30.00           | PASS    |
|                                           |            | 50      | 24        |            | 24.00                     | 0.5            | 24.50      | 1.00          | 30.00           | PASS    |
|                                           |            | 50      | 49        |            | 23.98                     | 0.5            | 24.48      | 1.00          | 30.00           | PASS    |
|                                           |            | 100     | 0         |            | 23.90                     | 0.5            | 24.40      | 1.00          | 30.00           | PASS    |



| Radiated Power (ERP) for LTE Band 5 /1.4M |            |         |           |            |                           |                |           |              |                |         |
|-------------------------------------------|------------|---------|-----------|------------|---------------------------|----------------|-----------|--------------|----------------|---------|
| BW (MHz)                                  | UL Channel | RB Size | RB offset | Modulation | Conduction AVG Power(dBm) | Ant Gain (dBi) | ERP (dBm) | ERP Limit(W) | ERP Limit(dBm) | Verdict |
| 1.4                                       | Lowest     | 1       | 0         | QPSK       | 23.68                     | 0.5            | 22.03     | 7.00         | 38.45          | PASS    |
|                                           |            | 1       | 2         |            | 23.67                     | 0.5            | 22.02     | 7.00         | 38.45          | PASS    |
|                                           |            | 1       | 5         |            | 23.60                     | 0.5            | 21.95     | 7.00         | 38.45          | PASS    |
|                                           |            | 3       | 0         |            | 23.55                     | 0.5            | 21.90     | 7.00         | 38.45          | PASS    |
|                                           |            | 3       | 1         |            | 23.47                     | 0.5            | 21.82     | 7.00         | 38.45          | PASS    |
|                                           |            | 3       | 2         |            | 23.45                     | 0.5            | 21.80     | 7.00         | 38.45          | PASS    |
|                                           |            | 6       | 0         |            | 23.31                     | 0.5            | 21.66     | 7.00         | 38.45          | PASS    |
|                                           |            | 1       | 0         | 16QAM      | 23.55                     | 0.5            | 21.90     | 7.00         | 38.45          | PASS    |
|                                           |            | 1       | 2         |            | 23.51                     | 0.5            | 21.86     | 7.00         | 38.45          | PASS    |
|                                           |            | 1       | 5         |            | 23.54                     | 0.5            | 21.89     | 7.00         | 38.45          | PASS    |
|                                           |            | 3       | 0         |            | 23.40                     | 0.5            | 21.75     | 7.00         | 38.45          | PASS    |
|                                           |            | 3       | 1         |            | 23.29                     | 0.5            | 21.64     | 7.00         | 38.45          | PASS    |
|                                           |            | 3       | 2         |            | 23.26                     | 0.5            | 21.61     | 7.00         | 38.45          | PASS    |
|                                           |            | 6       | 0         |            | 23.22                     | 0.5            | 21.57     | 7.00         | 38.45          | PASS    |
|                                           | Middle     | 1       | 0         | QPSK       | 23.75                     | 0.5            | 22.10     | 7.00         | 38.45          | PASS    |
|                                           |            | 1       | 2         |            | 23.61                     | 0.5            | 21.96     | 7.00         | 38.45          | PASS    |
|                                           |            | 1       | 5         |            | 23.47                     | 0.5            | 21.82     | 7.00         | 38.45          | PASS    |
|                                           |            | 3       | 0         |            | 23.28                     | 0.5            | 21.63     | 7.00         | 38.45          | PASS    |
|                                           |            | 3       | 1         |            | 23.21                     | 0.5            | 21.56     | 7.00         | 38.45          | PASS    |
|                                           |            | 3       | 2         |            | 23.20                     | 0.5            | 21.55     | 7.00         | 38.45          | PASS    |
|                                           |            | 6       | 0         |            | 23.17                     | 0.5            | 21.52     | 7.00         | 38.45          | PASS    |
|                                           |            | 1       | 0         | 16QAM      | 23.59                     | 0.5            | 21.94     | 7.00         | 38.45          | PASS    |
|                                           |            | 1       | 2         |            | 23.53                     | 0.5            | 21.88     | 7.00         | 38.45          | PASS    |
|                                           |            | 1       | 5         |            | 23.38                     | 0.5            | 21.73     | 7.00         | 38.45          | PASS    |
|                                           |            | 3       | 0         |            | 23.16                     | 0.5            | 21.51     | 7.00         | 38.45          | PASS    |
|                                           |            | 3       | 1         |            | 23.11                     | 0.5            | 21.46     | 7.00         | 38.45          | PASS    |
|                                           |            | 3       | 2         |            | 23.00                     | 0.5            | 21.35     | 7.00         | 38.45          | PASS    |
|                                           |            | 6       | 0         |            | 23.15                     | 0.5            | 21.50     | 7.00         | 38.45          | PASS    |
|                                           | Highest    | 1       | 0         | QPSK       | 23.79                     | 0.5            | 22.14     | 7.00         | 38.45          | PASS    |
|                                           |            | 1       | 2         |            | 23.74                     | 0.5            | 22.09     | 7.00         | 38.45          | PASS    |
|                                           |            | 1       | 5         |            | 23.63                     | 0.5            | 21.98     | 7.00         | 38.45          | PASS    |
|                                           |            | 3       | 0         |            | 23.45                     | 0.5            | 21.80     | 7.00         | 38.45          | PASS    |
|                                           |            | 3       | 1         |            | 23.41                     | 0.5            | 21.76     | 7.00         | 38.45          | PASS    |
|                                           |            | 3       | 2         |            | 23.40                     | 0.5            | 21.75     | 7.00         | 38.45          | PASS    |
|                                           |            | 6       | 0         |            | 23.26                     | 0.5            | 21.61     | 7.00         | 38.45          | PASS    |
|                                           |            | 1       | 0         | 16QAM      | 23.76                     | 0.5            | 22.11     | 7.00         | 38.45          | PASS    |
|                                           |            | 1       | 2         |            | 23.61                     | 0.5            | 21.96     | 7.00         | 38.45          | PASS    |
|                                           |            | 1       | 5         |            | 23.61                     | 0.5            | 21.96     | 7.00         | 38.45          | PASS    |
|                                           |            | 3       | 0         |            | 23.38                     | 0.5            | 21.73     | 7.00         | 38.45          | PASS    |
|                                           |            | 3       | 1         |            | 23.40                     | 0.5            | 21.75     | 7.00         | 38.45          | PASS    |
|                                           |            | 3       | 2         |            | 23.23                     | 0.5            | 21.58     | 7.00         | 38.45          | PASS    |
|                                           |            | 6       | 0         |            | 23.10                     | 0.5            | 21.45     | 7.00         | 38.45          | PASS    |



| Radiated Power (ERP) for LTE Band 5 /3M |            |         |           |            |                           |                |           |              |                |         |
|-----------------------------------------|------------|---------|-----------|------------|---------------------------|----------------|-----------|--------------|----------------|---------|
| BW (MHz)                                | UL Channel | RB Size | RB offset | Modulation | Conduction AVG Power(dBm) | Ant Gain (dBi) | ERP (dBm) | ERP Limit(W) | ERP Limit(dBm) | Verdict |
| 3                                       | Lowest     | 1       | 0         | QPSK       | 23.92                     | 0.5            | 22.27     | 7.00         | 38.45          | PASS    |
|                                         |            | 1       | 7         |            | 23.85                     | 0.5            | 22.20     | 7.00         | 38.45          | PASS    |
|                                         |            | 1       | 14        |            | 23.68                     | 0.5            | 22.03     | 7.00         | 38.45          | PASS    |
|                                         |            | 8       | 0         |            | 23.59                     | 0.5            | 21.94     | 7.00         | 38.45          | PASS    |
|                                         |            | 8       | 4         |            | 23.41                     | 0.5            | 21.76     | 7.00         | 38.45          | PASS    |
|                                         |            | 8       | 7         |            | 23.26                     | 0.5            | 21.61     | 7.00         | 38.45          | PASS    |
|                                         |            | 15      | 0         |            | 23.07                     | 0.5            | 21.42     | 7.00         | 38.45          | PASS    |
|                                         |            | 1       | 0         | 16QAM      | 23.79                     | 0.5            | 22.14     | 7.00         | 38.45          | PASS    |
|                                         |            | 1       | 7         |            | 23.81                     | 0.5            | 22.16     | 7.00         | 38.45          | PASS    |
|                                         |            | 1       | 14        |            | 23.54                     | 0.5            | 21.89     | 7.00         | 38.45          | PASS    |
|                                         |            | 8       | 0         |            | 23.58                     | 0.5            | 21.93     | 7.00         | 38.45          | PASS    |
|                                         |            | 8       | 4         |            | 23.34                     | 0.5            | 21.69     | 7.00         | 38.45          | PASS    |
|                                         |            | 8       | 7         |            | 23.20                     | 0.5            | 21.55     | 7.00         | 38.45          | PASS    |
|                                         |            | 15      | 0         |            | 22.87                     | 0.5            | 21.22     | 7.00         | 38.45          | PASS    |
|                                         | Middle     | 1       | 0         | QPSK       | 23.95                     | 0.5            | 22.30     | 7.00         | 38.45          | PASS    |
|                                         |            | 1       | 7         |            | 23.93                     | 0.5            | 22.28     | 7.00         | 38.45          | PASS    |
|                                         |            | 1       | 14        |            | 23.86                     | 0.5            | 22.21     | 7.00         | 38.45          | PASS    |
|                                         |            | 8       | 0         |            | 23.69                     | 0.5            | 22.04     | 7.00         | 38.45          | PASS    |
|                                         |            | 8       | 4         |            | 23.64                     | 0.5            | 21.99     | 7.00         | 38.45          | PASS    |
|                                         |            | 8       | 7         |            | 23.62                     | 0.5            | 21.97     | 7.00         | 38.45          | PASS    |
|                                         |            | 15      | 0         |            | 23.54                     | 0.5            | 21.89     | 7.00         | 38.45          | PASS    |
|                                         |            | 1       | 0         | 16QAM      | 23.93                     | 0.5            | 22.28     | 7.00         | 38.45          | PASS    |
|                                         |            | 1       | 7         |            | 23.77                     | 0.5            | 22.12     | 7.00         | 38.45          | PASS    |
|                                         |            | 1       | 14        |            | 23.81                     | 0.5            | 22.16     | 7.00         | 38.45          | PASS    |
|                                         |            | 8       | 0         |            | 23.52                     | 0.5            | 21.87     | 7.00         | 38.45          | PASS    |
|                                         |            | 8       | 4         |            | 23.55                     | 0.5            | 21.90     | 7.00         | 38.45          | PASS    |
|                                         |            | 8       | 7         |            | 23.62                     | 0.5            | 21.97     | 7.00         | 38.45          | PASS    |
|                                         |            | 15      | 0         |            | 23.50                     | 0.5            | 21.85     | 7.00         | 38.45          | PASS    |
|                                         | Highest    | 1       | 0         | QPSK       | 23.98                     | 0.5            | 22.33     | 7.00         | 38.45          | PASS    |
|                                         |            | 1       | 7         |            | 23.87                     | 0.5            | 22.22     | 7.00         | 38.45          | PASS    |
|                                         |            | 1       | 14        |            | 23.79                     | 0.5            | 22.14     | 7.00         | 38.45          | PASS    |
|                                         |            | 8       | 0         |            | 23.73                     | 0.5            | 22.08     | 7.00         | 38.45          | PASS    |
|                                         |            | 8       | 4         |            | 23.67                     | 0.5            | 22.02     | 7.00         | 38.45          | PASS    |
|                                         |            | 8       | 7         |            | 23.54                     | 0.5            | 21.89     | 7.00         | 38.45          | PASS    |
|                                         |            | 15      | 0         |            | 23.49                     | 0.5            | 21.84     | 7.00         | 38.45          | PASS    |
|                                         |            | 1       | 0         | 16QAM      | 23.89                     | 0.5            | 22.24     | 7.00         | 38.45          | PASS    |
|                                         |            | 1       | 7         |            | 23.87                     | 0.5            | 22.22     | 7.00         | 38.45          | PASS    |
|                                         |            | 1       | 14        |            | 23.67                     | 0.5            | 22.02     | 7.00         | 38.45          | PASS    |
|                                         |            | 8       | 0         |            | 23.63                     | 0.5            | 21.98     | 7.00         | 38.45          | PASS    |
|                                         |            | 8       | 4         |            | 23.51                     | 0.5            | 21.86     | 7.00         | 38.45          | PASS    |
|                                         |            | 8       | 7         |            | 23.41                     | 0.5            | 21.76     | 7.00         | 38.45          | PASS    |
|                                         |            | 15      | 0         |            | 23.41                     | 0.5            | 21.76     | 7.00         | 38.45          | PASS    |



| Radiated Power (ERP) for LTE Band 5 /5M |            |         |           |            |                           |                |           |              |                |         |
|-----------------------------------------|------------|---------|-----------|------------|---------------------------|----------------|-----------|--------------|----------------|---------|
| BW (MHz)                                | UL Channel | RB Size | RB offset | Modulation | Conduction AVG Power(dBm) | Ant Gain (dBi) | ERP (dBm) | ERP Limit(W) | ERP Limit(dBm) | Verdict |
| 5                                       | Lowest     | 1       | 0         | QPSK       | 24.12                     | 0.5            | 22.47     | 7.00         | 38.45          | PASS    |
|                                         |            | 1       | 12        |            | 24.11                     | 0.5            | 22.46     | 7.00         | 38.45          | PASS    |
|                                         |            | 1       | 24        |            | 24.01                     | 0.5            | 22.36     | 7.00         | 38.45          | PASS    |
|                                         |            | 12      | 0         |            | 23.91                     | 0.5            | 22.26     | 7.00         | 38.45          | PASS    |
|                                         |            | 12      | 6         |            | 23.91                     | 0.5            | 22.26     | 7.00         | 38.45          | PASS    |
|                                         |            | 12      | 11        |            | 23.73                     | 0.5            | 22.08     | 7.00         | 38.45          | PASS    |
|                                         |            | 25      | 0         |            | 23.65                     | 0.5            | 22.00     | 7.00         | 38.45          | PASS    |
|                                         |            | 1       | 0         | 16QAM      | 24.05                     | 0.5            | 22.40     | 7.00         | 38.45          | PASS    |
|                                         |            | 1       | 12        |            | 23.99                     | 0.5            | 22.34     | 7.00         | 38.45          | PASS    |
|                                         |            | 1       | 24        |            | 23.86                     | 0.5            | 22.21     | 7.00         | 38.45          | PASS    |
|                                         |            | 12      | 0         |            | 23.79                     | 0.5            | 22.14     | 7.00         | 38.45          | PASS    |
|                                         |            | 12      | 6         |            | 23.87                     | 0.5            | 22.22     | 7.00         | 38.45          | PASS    |
|                                         |            | 12      | 11        |            | 23.57                     | 0.5            | 21.92     | 7.00         | 38.45          | PASS    |
|                                         |            | 25      | 0         |            | 23.64                     | 0.5            | 21.99     | 7.00         | 38.45          | PASS    |
|                                         | Middle     | 1       | 0         | QPSK       | 24.19                     | 0.5            | 22.54     | 7.00         | 38.45          | PASS    |
|                                         |            | 1       | 12        |            | 24.11                     | 0.5            | 22.46     | 7.00         | 38.45          | PASS    |
|                                         |            | 1       | 24        |            | 24.00                     | 0.5            | 22.35     | 7.00         | 38.45          | PASS    |
|                                         |            | 12      | 0         |            | 23.86                     | 0.5            | 22.21     | 7.00         | 38.45          | PASS    |
|                                         |            | 12      | 6         |            | 23.75                     | 0.5            | 22.10     | 7.00         | 38.45          | PASS    |
|                                         |            | 12      | 11        |            | 23.66                     | 0.5            | 22.01     | 7.00         | 38.45          | PASS    |
|                                         |            | 25      | 0         |            | 23.66                     | 0.5            | 22.01     | 7.00         | 38.45          | PASS    |
|                                         |            | 1       | 0         | 16QAM      | 24.06                     | 0.5            | 22.41     | 7.00         | 38.45          | PASS    |
|                                         |            | 1       | 12        |            | 24.07                     | 0.5            | 22.42     | 7.00         | 38.45          | PASS    |
|                                         |            | 1       | 24        |            | 23.83                     | 0.5            | 22.18     | 7.00         | 38.45          | PASS    |
|                                         |            | 12      | 0         |            | 23.71                     | 0.5            | 22.06     | 7.00         | 38.45          | PASS    |
|                                         |            | 12      | 6         |            | 23.56                     | 0.5            | 21.91     | 7.00         | 38.45          | PASS    |
|                                         |            | 12      | 11        |            | 23.65                     | 0.5            | 22.00     | 7.00         | 38.45          | PASS    |
|                                         |            | 25      | 0         |            | 23.63                     | 0.5            | 21.98     | 7.00         | 38.45          | PASS    |
|                                         | Highest    | 1       | 0         | QPSK       | 24.23                     | 0.5            | 22.58     | 7.00         | 38.45          | PASS    |
|                                         |            | 1       | 12        |            | 24.13                     | 0.5            | 22.48     | 7.00         | 38.45          | PASS    |
|                                         |            | 1       | 24        |            | 24.04                     | 0.5            | 22.39     | 7.00         | 38.45          | PASS    |
|                                         |            | 12      | 0         |            | 23.85                     | 0.5            | 22.20     | 7.00         | 38.45          | PASS    |
|                                         |            | 12      | 6         |            | 23.69                     | 0.5            | 22.04     | 7.00         | 38.45          | PASS    |
|                                         |            | 12      | 11        |            | 23.49                     | 0.5            | 21.84     | 7.00         | 38.45          | PASS    |
|                                         |            | 25      | 0         |            | 23.47                     | 0.5            | 21.82     | 7.00         | 38.45          | PASS    |
|                                         |            | 1       | 0         | 16QAM      | 24.22                     | 0.5            | 22.57     | 7.00         | 38.45          | PASS    |
|                                         |            | 1       | 12        |            | 24.00                     | 0.5            | 22.35     | 7.00         | 38.45          | PASS    |
|                                         |            | 1       | 24        |            | 23.86                     | 0.5            | 22.21     | 7.00         | 38.45          | PASS    |
|                                         |            | 12      | 0         |            | 23.75                     | 0.5            | 22.10     | 7.00         | 38.45          | PASS    |
|                                         |            | 12      | 6         |            | 23.56                     | 0.5            | 21.91     | 7.00         | 38.45          | PASS    |
|                                         |            | 12      | 11        |            | 23.45                     | 0.5            | 21.80     | 7.00         | 38.45          | PASS    |
|                                         |            | 25      | 0         |            | 22.65                     | 0.5            | 21.00     | 7.00         | 38.45          | PASS    |



| Radiated Power (ERP) for LTE Band 5 /10M |            |         |           |            |                           |                |           |              |                |         |
|------------------------------------------|------------|---------|-----------|------------|---------------------------|----------------|-----------|--------------|----------------|---------|
| BW (MHz)                                 | UL Channel | RB Size | RB offset | Modulation | Conduction AVG Power(dBm) | Ant Gain (dBi) | ERP (dBm) | ERP Limit(W) | ERP Limit(dBm) | Verdict |
| 10                                       | Lowest     | 1       | 0         | QPSK       | 24.22                     | 0.5            | 22.57     | 7.00         | 38.45          | PASS    |
|                                          |            | 1       | 24        |            | 24.08                     | 0.5            | 22.43     | 7.00         | 38.45          | PASS    |
|                                          |            | 1       | 49        |            | 23.90                     | 0.5            | 22.25     | 7.00         | 38.45          | PASS    |
|                                          |            | 25      | 0         |            | 23.88                     | 0.5            | 22.23     | 7.00         | 38.45          | PASS    |
|                                          |            | 25      | 12        |            | 23.74                     | 0.5            | 22.09     | 7.00         | 38.45          | PASS    |
|                                          |            | 25      | 24        |            | 23.62                     | 0.5            | 21.97     | 7.00         | 38.45          | PASS    |
|                                          |            | 50      | 0         |            | 23.47                     | 0.5            | 21.82     | 7.00         | 38.45          | PASS    |
|                                          |            | 1       | 0         | 16QAM      | 24.03                     | 0.5            | 22.38     | 7.00         | 38.45          | PASS    |
|                                          |            | 1       | 24        |            | 23.95                     | 0.5            | 22.30     | 7.00         | 38.45          | PASS    |
|                                          |            | 1       | 49        |            | 23.79                     | 0.5            | 22.14     | 7.00         | 38.45          | PASS    |
|                                          |            | 25      | 0         |            | 23.74                     | 0.5            | 22.09     | 7.00         | 38.45          | PASS    |
|                                          |            | 25      | 12        |            | 23.68                     | 0.5            | 22.03     | 7.00         | 38.45          | PASS    |
|                                          |            | 25      | 24        |            | 23.48                     | 0.5            | 21.83     | 7.00         | 38.45          | PASS    |
|                                          |            | 50      | 0         |            | 23.39                     | 0.5            | 21.74     | 7.00         | 38.45          | PASS    |
|                                          | Middle     | 1       | 0         | QPSK       | 24.35                     | 0.5            | 22.70     | 7.00         | 38.45          | PASS    |
|                                          |            | 1       | 24        |            | 24.19                     | 0.5            | 22.54     | 7.00         | 38.45          | PASS    |
|                                          |            | 1       | 49        |            | 24.06                     | 0.5            | 22.41     | 7.00         | 38.45          | PASS    |
|                                          |            | 25      | 0         |            | 23.88                     | 0.5            | 22.23     | 7.00         | 38.45          | PASS    |
|                                          |            | 25      | 12        |            | 23.77                     | 0.5            | 22.12     | 7.00         | 38.45          | PASS    |
|                                          |            | 25      | 24        |            | 23.63                     | 0.5            | 21.98     | 7.00         | 38.45          | PASS    |
|                                          |            | 50      | 0         |            | 23.48                     | 0.5            | 21.83     | 7.00         | 38.45          | PASS    |
|                                          |            | 1       | 0         | 16QAM      | 24.30                     | 0.5            | 22.65     | 7.00         | 38.45          | PASS    |
|                                          |            | 1       | 24        |            | 24.17                     | 0.5            | 22.52     | 7.00         | 38.45          | PASS    |
|                                          |            | 1       | 49        |            | 24.01                     | 0.5            | 22.36     | 7.00         | 38.45          | PASS    |
|                                          |            | 25      | 0         |            | 23.82                     | 0.5            | 22.17     | 7.00         | 38.45          | PASS    |
|                                          |            | 25      | 12        |            | 23.60                     | 0.5            | 21.95     | 7.00         | 38.45          | PASS    |
|                                          |            | 25      | 24        |            | 23.49                     | 0.5            | 21.84     | 7.00         | 38.45          | PASS    |
|                                          |            | 50      | 0         |            | 23.45                     | 0.5            | 21.80     | 7.00         | 38.45          | PASS    |
|                                          | Highest    | 1       | 0         | QPSK       | 24.42                     | 0.5            | 22.77     | 7.00         | 38.45          | PASS    |
|                                          |            | 1       | 24        |            | 24.37                     | 0.5            | 22.72     | 7.00         | 38.45          | PASS    |
|                                          |            | 1       | 49        |            | 24.34                     | 0.5            | 22.69     | 7.00         | 38.45          | PASS    |
|                                          |            | 25      | 0         |            | 24.26                     | 0.5            | 22.61     | 7.00         | 38.45          | PASS    |
|                                          |            | 25      | 12        |            | 24.17                     | 0.5            | 22.52     | 7.00         | 38.45          | PASS    |
|                                          |            | 25      | 24        |            | 23.97                     | 0.5            | 22.32     | 7.00         | 38.45          | PASS    |
|                                          |            | 50      | 0         |            | 23.86                     | 0.5            | 22.21     | 7.00         | 38.45          | PASS    |
|                                          |            | 1       | 0         | 16QAM      | 24.22                     | 0.5            | 22.57     | 7.00         | 38.45          | PASS    |
|                                          |            | 1       | 24        |            | 24.26                     | 0.5            | 22.61     | 7.00         | 38.45          | PASS    |
|                                          |            | 1       | 49        |            | 24.24                     | 0.5            | 22.59     | 7.00         | 38.45          | PASS    |
|                                          |            | 25      | 0         |            | 24.24                     | 0.5            | 22.59     | 7.00         | 38.45          | PASS    |
|                                          |            | 25      | 12        |            | 24.16                     | 0.5            | 22.51     | 7.00         | 38.45          | PASS    |
|                                          |            | 25      | 24        |            | 23.92                     | 0.5            | 22.27     | 7.00         | 38.45          | PASS    |
|                                          |            | 50      | 0         |            | 23.74                     | 0.5            | 22.09     | 7.00         | 38.45          | PASS    |



| Radiated Power (ERP) for LTE Band 12 /1.4M |            |         |           |            |                           |                |           |              |                |         |
|--------------------------------------------|------------|---------|-----------|------------|---------------------------|----------------|-----------|--------------|----------------|---------|
| BW (MHz)                                   | UL Channel | RB Size | RB offset | Modulation | Conduction AVG Power(dBm) | Ant Gain (dBi) | ERP (dBm) | ERP Limit(W) | ERP Limit(dBm) | Verdict |
| 1.4                                        | Lowest     | 1       | 0         | QPSK       | 22.89                     | 0.5            | 21.24     | 3.00         | 34.77          | PASS    |
|                                            |            | 1       | 2         |            | 22.82                     | 0.5            | 21.17     | 3.00         | 34.77          | PASS    |
|                                            |            | 1       | 5         |            | 22.82                     | 0.5            | 21.17     | 3.00         | 34.77          | PASS    |
|                                            |            | 3       | 0         |            | 22.71                     | 0.5            | 21.06     | 3.00         | 34.77          | PASS    |
|                                            |            | 3       | 1         |            | 22.53                     | 0.5            | 20.88     | 3.00         | 34.77          | PASS    |
|                                            |            | 3       | 2         |            | 22.46                     | 0.5            | 20.81     | 3.00         | 34.77          | PASS    |
|                                            |            | 6       | 0         |            | 22.42                     | 0.5            | 20.77     | 3.00         | 34.77          | PASS    |
|                                            |            | 1       | 0         | 16QAM      | 22.71                     | 0.5            | 21.06     | 3.00         | 34.77          | PASS    |
|                                            |            | 1       | 2         |            | 22.64                     | 0.5            | 20.99     | 3.00         | 34.77          | PASS    |
|                                            |            | 1       | 5         |            | 22.75                     | 0.5            | 21.10     | 3.00         | 34.77          | PASS    |
|                                            |            | 3       | 0         |            | 22.65                     | 0.5            | 21.00     | 3.00         | 34.77          | PASS    |
|                                            |            | 3       | 1         |            | 22.43                     | 0.5            | 20.78     | 3.00         | 34.77          | PASS    |
|                                            |            | 3       | 2         |            | 22.42                     | 0.5            | 20.77     | 3.00         | 34.77          | PASS    |
|                                            |            | 6       | 0         |            | 22.25                     | 0.5            | 20.60     | 3.00         | 34.77          | PASS    |
|                                            | Middle     | 1       | 0         | QPSK       | 22.91                     | 0.5            | 21.26     | 3.00         | 34.77          | PASS    |
|                                            |            | 1       | 2         |            | 22.79                     | 0.5            | 21.14     | 3.00         | 34.77          | PASS    |
|                                            |            | 1       | 5         |            | 22.69                     | 0.5            | 21.04     | 3.00         | 34.77          | PASS    |
|                                            |            | 3       | 0         |            | 22.62                     | 0.5            | 20.97     | 3.00         | 34.77          | PASS    |
|                                            |            | 3       | 1         |            | 22.50                     | 0.5            | 20.85     | 3.00         | 34.77          | PASS    |
|                                            |            | 3       | 2         |            | 22.31                     | 0.5            | 20.66     | 3.00         | 34.77          | PASS    |
|                                            |            | 6       | 0         |            | 22.19                     | 0.5            | 20.54     | 3.00         | 34.77          | PASS    |
|                                            |            | 1       | 0         | 16QAM      | 22.87                     | 0.5            | 21.22     | 3.00         | 34.77          | PASS    |
|                                            |            | 1       | 2         |            | 22.72                     | 0.5            | 21.07     | 3.00         | 34.77          | PASS    |
|                                            |            | 1       | 5         |            | 22.64                     | 0.5            | 20.99     | 3.00         | 34.77          | PASS    |
|                                            |            | 3       | 0         |            | 22.48                     | 0.5            | 20.83     | 3.00         | 34.77          | PASS    |
|                                            |            | 3       | 1         |            | 22.34                     | 0.5            | 20.69     | 3.00         | 34.77          | PASS    |
|                                            |            | 3       | 2         |            | 22.18                     | 0.5            | 20.53     | 3.00         | 34.77          | PASS    |
|                                            |            | 6       | 0         |            | 22.01                     | 0.5            | 20.36     | 3.00         | 34.77          | PASS    |
|                                            | Highest    | 1       | 0         | QPSK       | 22.93                     | 0.5            | 21.28     | 3.00         | 34.77          | PASS    |
|                                            |            | 1       | 2         |            | 22.86                     | 0.5            | 21.21     | 3.00         | 34.77          | PASS    |
|                                            |            | 1       | 5         |            | 22.72                     | 0.5            | 21.07     | 3.00         | 34.77          | PASS    |
|                                            |            | 3       | 0         |            | 22.70                     | 0.5            | 21.05     | 3.00         | 34.77          | PASS    |
|                                            |            | 3       | 1         |            | 22.58                     | 0.5            | 20.93     | 3.00         | 34.77          | PASS    |
|                                            |            | 3       | 2         |            | 22.42                     | 0.5            | 20.77     | 3.00         | 34.77          | PASS    |
|                                            |            | 6       | 0         |            | 22.28                     | 0.5            | 20.63     | 3.00         | 34.77          | PASS    |
|                                            |            | 1       | 0         | 16QAM      | 22.88                     | 0.5            | 21.23     | 3.00         | 34.77          | PASS    |
|                                            |            | 1       | 2         |            | 22.85                     | 0.5            | 21.20     | 3.00         | 34.77          | PASS    |
|                                            |            | 1       | 5         |            | 22.59                     | 0.5            | 20.94     | 3.00         | 34.77          | PASS    |
|                                            |            | 3       | 0         |            | 22.68                     | 0.5            | 21.03     | 3.00         | 34.77          | PASS    |
|                                            |            | 3       | 1         |            | 22.41                     | 0.5            | 20.76     | 3.00         | 34.77          | PASS    |
|                                            |            | 3       | 2         |            | 22.38                     | 0.5            | 20.73     | 3.00         | 34.77          | PASS    |
|                                            |            | 6       | 0         |            | 22.10                     | 0.5            | 20.45     | 3.00         | 34.77          | PASS    |



| Radiated Power (ERP) for LTE Band 12 /3M |            |         |           |            |                           |                |           |              |                |         |
|------------------------------------------|------------|---------|-----------|------------|---------------------------|----------------|-----------|--------------|----------------|---------|
| BW (MHz)                                 | UL Channel | RB Size | RB offset | Modulation | Conduction AVG Power(dBm) | Ant Gain (dBi) | ERP (dBm) | ERP Limit(W) | ERP Limit(dBm) | Verdict |
| 3                                        | Lowest     | 1       | 0         | QPSK       | 23.02                     | 0.5            | 21.37     | 3.00         | 34.77          | PASS    |
|                                          |            | 1       | 7         |            | 22.93                     | 0.5            | 21.28     | 3.00         | 34.77          | PASS    |
|                                          |            | 1       | 14        |            | 22.93                     | 0.5            | 21.28     | 3.00         | 34.77          | PASS    |
|                                          |            | 8       | 0         |            | 22.88                     | 0.5            | 21.23     | 3.00         | 34.77          | PASS    |
|                                          |            | 8       | 4         |            | 22.72                     | 0.5            | 21.07     | 3.00         | 34.77          | PASS    |
|                                          |            | 8       | 7         |            | 22.56                     | 0.5            | 20.91     | 3.00         | 34.77          | PASS    |
|                                          |            | 15      | 0         |            | 22.42                     | 0.5            | 20.77     | 3.00         | 34.77          | PASS    |
|                                          |            | 1       | 0         | 16QAM      | 22.96                     | 0.5            | 21.31     | 3.00         | 34.77          | PASS    |
|                                          |            | 1       | 7         |            | 22.93                     | 0.5            | 21.28     | 3.00         | 34.77          | PASS    |
|                                          |            | 1       | 14        |            | 22.91                     | 0.5            | 21.26     | 3.00         | 34.77          | PASS    |
|                                          |            | 8       | 0         |            | 22.81                     | 0.5            | 21.16     | 3.00         | 34.77          | PASS    |
|                                          |            | 8       | 4         |            | 22.65                     | 0.5            | 21.00     | 3.00         | 34.77          | PASS    |
|                                          |            | 8       | 7         |            | 22.46                     | 0.5            | 20.81     | 3.00         | 34.77          | PASS    |
|                                          |            | 15      | 0         |            | 22.36                     | 0.5            | 20.71     | 3.00         | 34.77          | PASS    |
|                                          | Middle     | 1       | 0         | QPSK       | 23.15                     | 0.5            | 21.50     | 3.00         | 34.77          | PASS    |
|                                          |            | 1       | 7         |            | 23.00                     | 0.5            | 21.35     | 3.00         | 34.77          | PASS    |
|                                          |            | 1       | 14        |            | 22.93                     | 0.5            | 21.28     | 3.00         | 34.77          | PASS    |
|                                          |            | 8       | 0         |            | 22.93                     | 0.5            | 21.28     | 3.00         | 34.77          | PASS    |
|                                          |            | 8       | 4         |            | 22.88                     | 0.5            | 21.23     | 3.00         | 34.77          | PASS    |
|                                          |            | 8       | 7         |            | 22.80                     | 0.5            | 21.15     | 3.00         | 34.77          | PASS    |
|                                          |            | 15      | 0         |            | 22.74                     | 0.5            | 21.09     | 3.00         | 34.77          | PASS    |
|                                          |            | 1       | 0         | 16QAM      | 23.09                     | 0.5            | 21.44     | 3.00         | 34.77          | PASS    |
|                                          |            | 1       | 7         |            | 22.98                     | 0.5            | 21.33     | 3.00         | 34.77          | PASS    |
|                                          |            | 1       | 14        |            | 22.78                     | 0.5            | 21.13     | 3.00         | 34.77          | PASS    |
|                                          |            | 8       | 0         |            | 22.76                     | 0.5            | 21.11     | 3.00         | 34.77          | PASS    |
|                                          |            | 8       | 4         |            | 22.71                     | 0.5            | 21.06     | 3.00         | 34.77          | PASS    |
|                                          |            | 8       | 7         |            | 22.70                     | 0.5            | 21.05     | 3.00         | 34.77          | PASS    |
|                                          |            | 15      | 0         |            | 22.70                     | 0.5            | 21.05     | 3.00         | 34.77          | PASS    |
|                                          | Highest    | 1       | 0         | QPSK       | 23.18                     | 0.5            | 21.53     | 3.00         | 34.77          | PASS    |
|                                          |            | 1       | 7         |            | 23.10                     | 0.5            | 21.45     | 3.00         | 34.77          | PASS    |
|                                          |            | 1       | 14        |            | 22.94                     | 0.5            | 21.29     | 3.00         | 34.77          | PASS    |
|                                          |            | 8       | 0         |            | 22.91                     | 0.5            | 21.26     | 3.00         | 34.77          | PASS    |
|                                          |            | 8       | 4         |            | 22.89                     | 0.5            | 21.24     | 3.00         | 34.77          | PASS    |
|                                          |            | 8       | 7         |            | 22.70                     | 0.5            | 21.05     | 3.00         | 34.77          | PASS    |
|                                          |            | 15      | 0         |            | 22.54                     | 0.5            | 20.89     | 3.00         | 34.77          | PASS    |
|                                          |            | 1       | 0         | 16QAM      | 23.12                     | 0.5            | 21.47     | 3.00         | 34.77          | PASS    |
|                                          |            | 1       | 7         |            | 23.04                     | 0.5            | 21.39     | 3.00         | 34.77          | PASS    |
|                                          |            | 1       | 14        |            | 22.85                     | 0.5            | 21.20     | 3.00         | 34.77          | PASS    |
|                                          |            | 8       | 0         |            | 22.88                     | 0.5            | 21.23     | 3.00         | 34.77          | PASS    |
|                                          |            | 8       | 4         |            | 22.77                     | 0.5            | 21.12     | 3.00         | 34.77          | PASS    |
|                                          |            | 8       | 7         |            | 22.56                     | 0.5            | 20.91     | 3.00         | 34.77          | PASS    |
|                                          |            | 15      | 0         |            | 22.55                     | 0.5            | 20.90     | 3.00         | 34.77          | PASS    |



| Radiated Power (ERP) for LTE Band 12 /5M |            |         |           |            |                           |                |           |              |                |         |
|------------------------------------------|------------|---------|-----------|------------|---------------------------|----------------|-----------|--------------|----------------|---------|
| BW (MHz)                                 | UL Channel | RB Size | RB offset | Modulation | Conduction AVG Power(dBm) | Ant Gain (dBi) | ERP (dBm) | ERP Limit(W) | ERP Limit(dBm) | Verdict |
| 5                                        | Lowest     | 1       | 0         | QPSK       | 23.54                     | 0.5            | 21.89     | 3.00         | 34.77          | PASS    |
|                                          |            | 1       | 12        |            | 23.46                     | 0.5            | 21.81     | 3.00         | 34.77          | PASS    |
|                                          |            | 1       | 24        |            | 23.34                     | 0.5            | 21.69     | 3.00         | 34.77          | PASS    |
|                                          |            | 12      | 0         |            | 23.18                     | 0.5            | 21.53     | 3.00         | 34.77          | PASS    |
|                                          |            | 12      | 6         |            | 23.17                     | 0.5            | 21.52     | 3.00         | 34.77          | PASS    |
|                                          |            | 12      | 11        |            | 23.07                     | 0.5            | 21.42     | 3.00         | 34.77          | PASS    |
|                                          |            | 25      | 0         |            | 22.92                     | 0.5            | 21.27     | 3.00         | 34.77          | PASS    |
|                                          |            | 1       | 0         | 16QAM      | 23.35                     | 0.5            | 21.70     | 3.00         | 34.77          | PASS    |
|                                          |            | 1       | 12        |            | 23.40                     | 0.5            | 21.75     | 3.00         | 34.77          | PASS    |
|                                          |            | 1       | 24        |            | 23.33                     | 0.5            | 21.68     | 3.00         | 34.77          | PASS    |
|                                          |            | 12      | 0         |            | 23.00                     | 0.5            | 21.35     | 3.00         | 34.77          | PASS    |
|                                          |            | 12      | 6         |            | 23.05                     | 0.5            | 21.40     | 3.00         | 34.77          | PASS    |
|                                          |            | 12      | 11        |            | 23.06                     | 0.5            | 21.41     | 3.00         | 34.77          | PASS    |
|                                          |            | 25      | 0         |            | 22.84                     | 0.5            | 21.19     | 3.00         | 34.77          | PASS    |
|                                          | Middle     | 1       | 0         | QPSK       | 23.62                     | 0.5            | 21.97     | 3.00         | 34.77          | PASS    |
|                                          |            | 1       | 12        |            | 23.61                     | 0.5            | 21.96     | 3.00         | 34.77          | PASS    |
|                                          |            | 1       | 24        |            | 23.41                     | 0.5            | 21.76     | 3.00         | 34.77          | PASS    |
|                                          |            | 12      | 0         |            | 23.23                     | 0.5            | 21.58     | 3.00         | 34.77          | PASS    |
|                                          |            | 12      | 6         |            | 23.14                     | 0.5            | 21.49     | 3.00         | 34.77          | PASS    |
|                                          |            | 12      | 11        |            | 23.10                     | 0.5            | 21.45     | 3.00         | 34.77          | PASS    |
|                                          |            | 25      | 0         |            | 23.03                     | 0.5            | 21.38     | 3.00         | 34.77          | PASS    |
|                                          |            | 1       | 0         | 16QAM      | 23.46                     | 0.5            | 21.81     | 3.00         | 34.77          | PASS    |
|                                          |            | 1       | 12        |            | 23.46                     | 0.5            | 21.81     | 3.00         | 34.77          | PASS    |
|                                          |            | 1       | 24        |            | 23.38                     | 0.5            | 21.73     | 3.00         | 34.77          | PASS    |
|                                          |            | 12      | 0         |            | 23.18                     | 0.5            | 21.53     | 3.00         | 34.77          | PASS    |
|                                          |            | 12      | 6         |            | 22.97                     | 0.5            | 21.32     | 3.00         | 34.77          | PASS    |
|                                          |            | 12      | 11        |            | 23.00                     | 0.5            | 21.35     | 3.00         | 34.77          | PASS    |
|                                          |            | 25      | 0         |            | 22.95                     | 0.5            | 21.30     | 3.00         | 34.77          | PASS    |
|                                          | Highest    | 1       | 0         | QPSK       | 23.68                     | 0.5            | 22.03     | 3.00         | 34.77          | PASS    |
|                                          |            | 1       | 12        |            | 23.54                     | 0.5            | 21.89     | 3.00         | 34.77          | PASS    |
|                                          |            | 1       | 24        |            | 23.39                     | 0.5            | 21.74     | 3.00         | 34.77          | PASS    |
|                                          |            | 12      | 0         |            | 23.22                     | 0.5            | 21.57     | 3.00         | 34.77          | PASS    |
|                                          |            | 12      | 6         |            | 23.04                     | 0.5            | 21.39     | 3.00         | 34.77          | PASS    |
|                                          |            | 12      | 11        |            | 22.93                     | 0.5            | 21.28     | 3.00         | 34.77          | PASS    |
|                                          |            | 25      | 0         |            | 22.88                     | 0.5            | 21.23     | 3.00         | 34.77          | PASS    |
|                                          |            | 1       | 0         | 16QAM      | 23.63                     | 0.5            | 21.98     | 3.00         | 34.77          | PASS    |
|                                          |            | 1       | 12        |            | 23.39                     | 0.5            | 21.74     | 3.00         | 34.77          | PASS    |
|                                          |            | 1       | 24        |            | 23.28                     | 0.5            | 21.63     | 3.00         | 34.77          | PASS    |
|                                          |            | 12      | 0         |            | 23.19                     | 0.5            | 21.54     | 3.00         | 34.77          | PASS    |
|                                          |            | 12      | 6         |            | 22.89                     | 0.5            | 21.24     | 3.00         | 34.77          | PASS    |
|                                          |            | 12      | 11        |            | 22.82                     | 0.5            | 21.17     | 3.00         | 34.77          | PASS    |
|                                          |            | 25      | 0         |            | 22.68                     | 0.5            | 21.03     | 3.00         | 34.77          | PASS    |



| Radiated Power (ERP) for LTE Band 12 /10M |            |         |           |            |                           |                |           |              |                |         |
|-------------------------------------------|------------|---------|-----------|------------|---------------------------|----------------|-----------|--------------|----------------|---------|
| BW (MHz)                                  | UL Channel | RB Size | RB offset | Modulation | Conduction AVG Power(dBm) | Ant Gain (dBi) | ERP (dBm) | ERP Limit(W) | ERP Limit(dBm) | Verdict |
| 10                                        | Lowest     | 1       | 0         | QPSK       | 23.85                     | 0.5            | 22.20     | 3.00         | 34.77          | PASS    |
|                                           |            | 1       | 24        |            | 23.66                     | 0.5            | 22.01     | 3.00         | 34.77          | PASS    |
|                                           |            | 1       | 49        |            | 23.49                     | 0.5            | 21.84     | 3.00         | 34.77          | PASS    |
|                                           |            | 25      | 0         |            | 23.33                     | 0.5            | 21.68     | 3.00         | 34.77          | PASS    |
|                                           |            | 25      | 12        |            | 23.31                     | 0.5            | 21.66     | 3.00         | 34.77          | PASS    |
|                                           |            | 25      | 24        |            | 23.21                     | 0.5            | 21.56     | 3.00         | 34.77          | PASS    |
|                                           |            | 50      | 0         |            | 23.12                     | 0.5            | 21.47     | 3.00         | 34.77          | PASS    |
|                                           |            | 1       | 0         | 16QAM      | 23.82                     | 0.5            | 22.17     | 3.00         | 34.77          | PASS    |
|                                           |            | 1       | 24        |            | 23.58                     | 0.5            | 21.93     | 3.00         | 34.77          | PASS    |
|                                           |            | 1       | 49        |            | 23.33                     | 0.5            | 21.68     | 3.00         | 34.77          | PASS    |
|                                           |            | 25      | 0         |            | 23.14                     | 0.5            | 21.49     | 3.00         | 34.77          | PASS    |
|                                           |            | 25      | 12        |            | 23.29                     | 0.5            | 21.64     | 3.00         | 34.77          | PASS    |
|                                           |            | 25      | 24        |            | 23.17                     | 0.5            | 21.52     | 3.00         | 34.77          | PASS    |
|                                           |            | 50      | 0         |            | 22.95                     | 0.5            | 21.30     | 3.00         | 34.77          | PASS    |
|                                           | Middle     | 1       | 0         | QPSK       | 23.89                     | 0.5            | 22.24     | 3.00         | 34.77          | PASS    |
|                                           |            | 1       | 24        |            | 23.69                     | 0.5            | 22.04     | 3.00         | 34.77          | PASS    |
|                                           |            | 1       | 49        |            | 23.65                     | 0.5            | 22.00     | 3.00         | 34.77          | PASS    |
|                                           |            | 25      | 0         |            | 23.46                     | 0.5            | 21.81     | 3.00         | 34.77          | PASS    |
|                                           |            | 25      | 12        |            | 23.38                     | 0.5            | 21.73     | 3.00         | 34.77          | PASS    |
|                                           |            | 25      | 24        |            | 23.18                     | 0.5            | 21.53     | 3.00         | 34.77          | PASS    |
|                                           |            | 50      | 0         |            | 23.11                     | 0.5            | 21.46     | 3.00         | 34.77          | PASS    |
|                                           |            | 1       | 0         | 16QAM      | 23.78                     | 0.5            | 22.13     | 3.00         | 34.77          | PASS    |
|                                           |            | 1       | 24        |            | 23.55                     | 0.5            | 21.90     | 3.00         | 34.77          | PASS    |
|                                           |            | 1       | 49        |            | 23.57                     | 0.5            | 21.92     | 3.00         | 34.77          | PASS    |
|                                           |            | 25      | 0         |            | 23.36                     | 0.5            | 21.71     | 3.00         | 34.77          | PASS    |
|                                           |            | 25      | 12        |            | 23.23                     | 0.5            | 21.58     | 3.00         | 34.77          | PASS    |
|                                           |            | 25      | 24        |            | 23.14                     | 0.5            | 21.49     | 3.00         | 34.77          | PASS    |
|                                           |            | 50      | 0         |            | 23.06                     | 0.5            | 21.41     | 3.00         | 34.77          | PASS    |
|                                           | Highest    | 1       | 0         | QPSK       | 23.95                     | 0.5            | 22.30     | 3.00         | 34.77          | PASS    |
|                                           |            | 1       | 24        |            | 23.86                     | 0.5            | 22.21     | 3.00         | 34.77          | PASS    |
|                                           |            | 1       | 49        |            | 23.78                     | 0.5            | 22.13     | 3.00         | 34.77          | PASS    |
|                                           |            | 25      | 0         |            | 23.58                     | 0.5            | 21.93     | 3.00         | 34.77          | PASS    |
|                                           |            | 25      | 12        |            | 23.42                     | 0.5            | 21.77     | 3.00         | 34.77          | PASS    |
|                                           |            | 25      | 24        |            | 23.22                     | 0.5            | 21.57     | 3.00         | 34.77          | PASS    |
|                                           |            | 50      | 0         |            | 23.15                     | 0.5            | 21.50     | 3.00         | 34.77          | PASS    |
|                                           |            | 1       | 0         | 16QAM      | 23.95                     | 0.5            | 22.30     | 3.00         | 34.77          | PASS    |
|                                           |            | 1       | 24        |            | 23.83                     | 0.5            | 22.18     | 3.00         | 34.77          | PASS    |
|                                           |            | 1       | 49        |            | 23.68                     | 0.5            | 22.03     | 3.00         | 34.77          | PASS    |
|                                           |            | 25      | 0         |            | 23.57                     | 0.5            | 21.92     | 3.00         | 34.77          | PASS    |
|                                           |            | 25      | 12        |            | 23.40                     | 0.5            | 21.75     | 3.00         | 34.77          | PASS    |
|                                           |            | 25      | 24        |            | 23.20                     | 0.5            | 21.55     | 3.00         | 34.77          | PASS    |
|                                           |            | 50      | 0         |            | 23.11                     | 0.5            | 21.46     | 3.00         | 34.77          | PASS    |



| Radiated Power (EIRP) for LTE Band 66 /1.4M |            |         |           |            |                           |                |            |               |                 |         |
|---------------------------------------------|------------|---------|-----------|------------|---------------------------|----------------|------------|---------------|-----------------|---------|
| BW (MHz)                                    | UL Channel | RB Size | RB offset | Modulation | Conduction AVG Power(dBm) | Ant Gain (dBi) | EIRP (dBm) | EIRP Limit(W) | EIRP Limit(dBm) | Verdict |
| 1.4                                         | Lowest     | 1       | 0         | QPSK       | 23.28                     | 0.5            | 23.78      | 1.00          | 30.00           | PASS    |
|                                             |            | 1       | 2         |            | 23.25                     | 0.5            | 23.75      | 1.00          | 30.00           | PASS    |
|                                             |            | 1       | 5         |            | 23.24                     | 0.5            | 23.74      | 1.00          | 30.00           | PASS    |
|                                             |            | 3       | 0         |            | 23.18                     | 0.5            | 23.68      | 1.00          | 30.00           | PASS    |
|                                             |            | 3       | 1         |            | 23.04                     | 0.5            | 23.54      | 1.00          | 30.00           | PASS    |
|                                             |            | 3       | 2         |            | 23.01                     | 0.5            | 23.51      | 1.00          | 30.00           | PASS    |
|                                             |            | 6       | 0         |            | 22.94                     | 0.5            | 23.44      | 1.00          | 30.00           | PASS    |
|                                             |            | 1       | 0         | 16QAM      | 23.11                     | 0.5            | 23.61      | 1.00          | 30.00           | PASS    |
|                                             |            | 1       | 2         |            | 23.18                     | 0.5            | 23.68      | 1.00          | 30.00           | PASS    |
|                                             |            | 1       | 5         |            | 23.12                     | 0.5            | 23.62      | 1.00          | 30.00           | PASS    |
|                                             |            | 3       | 0         |            | 23.17                     | 0.5            | 23.67      | 1.00          | 30.00           | PASS    |
|                                             |            | 3       | 1         |            | 22.93                     | 0.5            | 23.43      | 1.00          | 30.00           | PASS    |
|                                             |            | 3       | 2         |            | 22.93                     | 0.5            | 23.43      | 1.00          | 30.00           | PASS    |
|                                             |            | 6       | 0         |            | 22.82                     | 0.5            | 23.32      | 1.00          | 30.00           | PASS    |
|                                             | Middle     | 1       | 0         | QPSK       | 23.32                     | 0.5            | 23.82      | 1.00          | 30.00           | PASS    |
|                                             |            | 1       | 2         |            | 23.21                     | 0.5            | 23.71      | 1.00          | 30.00           | PASS    |
|                                             |            | 1       | 5         |            | 23.11                     | 0.5            | 23.61      | 1.00          | 30.00           | PASS    |
|                                             |            | 3       | 0         |            | 22.92                     | 0.5            | 23.42      | 1.00          | 30.00           | PASS    |
|                                             |            | 3       | 1         |            | 22.74                     | 0.5            | 23.24      | 1.00          | 30.00           | PASS    |
|                                             |            | 3       | 2         |            | 22.73                     | 0.5            | 23.23      | 1.00          | 30.00           | PASS    |
|                                             |            | 6       | 0         |            | 22.56                     | 0.5            | 23.06      | 1.00          | 30.00           | PASS    |
|                                             |            | 1       | 0         | 16QAM      | 23.18                     | 0.5            | 23.68      | 1.00          | 30.00           | PASS    |
|                                             |            | 1       | 2         |            | 23.07                     | 0.5            | 23.57      | 1.00          | 30.00           | PASS    |
|                                             |            | 1       | 5         |            | 23.07                     | 0.5            | 23.57      | 1.00          | 30.00           | PASS    |
|                                             |            | 3       | 0         |            | 22.73                     | 0.5            | 23.23      | 1.00          | 30.00           | PASS    |
|                                             |            | 3       | 1         |            | 22.66                     | 0.5            | 23.16      | 1.00          | 30.00           | PASS    |
|                                             |            | 3       | 2         |            | 22.72                     | 0.5            | 23.22      | 1.00          | 30.00           | PASS    |
|                                             |            | 6       | 0         |            | 22.46                     | 0.5            | 22.96      | 1.00          | 30.00           | PASS    |
|                                             | Highest    | 1       | 0         | QPSK       | 23.35                     | 0.5            | 23.85      | 1.00          | 30.00           | PASS    |
|                                             |            | 1       | 2         |            | 23.21                     | 0.5            | 23.71      | 1.00          | 30.00           | PASS    |
|                                             |            | 1       | 5         |            | 23.19                     | 0.5            | 23.69      | 1.00          | 30.00           | PASS    |
|                                             |            | 3       | 0         |            | 23.01                     | 0.5            | 23.51      | 1.00          | 30.00           | PASS    |
|                                             |            | 3       | 1         |            | 22.86                     | 0.5            | 23.36      | 1.00          | 30.00           | PASS    |
|                                             |            | 3       | 2         |            | 22.67                     | 0.5            | 23.17      | 1.00          | 30.00           | PASS    |
|                                             |            | 6       | 0         |            | 22.53                     | 0.5            | 23.03      | 1.00          | 30.00           | PASS    |
|                                             |            | 1       | 0         | 16QAM      | 23.33                     | 0.5            | 23.83      | 1.00          | 30.00           | PASS    |
|                                             |            | 1       | 2         |            | 23.18                     | 0.5            | 23.68      | 1.00          | 30.00           | PASS    |
|                                             |            | 1       | 5         |            | 23.11                     | 0.5            | 23.61      | 1.00          | 30.00           | PASS    |
|                                             |            | 3       | 0         |            | 22.88                     | 0.5            | 23.38      | 1.00          | 30.00           | PASS    |
|                                             |            | 3       | 1         |            | 22.76                     | 0.5            | 23.26      | 1.00          | 30.00           | PASS    |
|                                             |            | 3       | 2         |            | 22.61                     | 0.5            | 23.11      | 1.00          | 30.00           | PASS    |
|                                             |            | 6       | 0         |            | 22.48                     |                | 22.48      | 1.00          | 30.00           | PASS    |



| Radiated Power (EIRP) for LTE Band 66 /3M |            |         |           |            |                           |                |            |               |                 |         |
|-------------------------------------------|------------|---------|-----------|------------|---------------------------|----------------|------------|---------------|-----------------|---------|
| BW (MHz)                                  | UL Channel | RB Size | RB offset | Modulation | Conduction AVG Power(dBm) | Ant Gain (dBi) | EIRP (dBm) | EIRP Limit(W) | EIRP Limit(dBm) | Verdict |
| 3                                         | Lowest     | 1       | 0         | QPSK       | 23.26                     | 0.5            | 23.76      | 1.00          | 30.00           | PASS    |
|                                           |            | 1       | 7         |            | 23.09                     | 0.5            | 23.59      | 1.00          | 30.00           | PASS    |
|                                           |            | 1       | 14        |            | 22.99                     | 0.5            | 23.49      | 1.00          | 30.00           | PASS    |
|                                           |            | 8       | 0         |            | 22.91                     | 0.5            | 23.41      | 1.00          | 30.00           | PASS    |
|                                           |            | 8       | 4         |            | 22.78                     | 0.5            | 23.28      | 1.00          | 30.00           | PASS    |
|                                           |            | 8       | 7         |            | 22.69                     | 0.5            | 23.19      | 1.00          | 30.00           | PASS    |
|                                           |            | 15      | 0         |            | 22.64                     | 0.5            | 23.14      | 1.00          | 30.00           | PASS    |
|                                           |            | 1       | 0         | 16QAM      | 23.11                     | 0.5            | 23.61      | 1.00          | 30.00           | PASS    |
|                                           |            | 1       | 7         |            | 22.96                     | 0.5            | 23.46      | 1.00          | 30.00           | PASS    |
|                                           |            | 1       | 14        |            | 22.98                     | 0.5            | 23.48      | 1.00          | 30.00           | PASS    |
|                                           |            | 8       | 0         |            | 22.77                     | 0.5            | 23.27      | 1.00          | 30.00           | PASS    |
|                                           |            | 8       | 4         |            | 22.65                     | 0.5            | 23.15      | 1.00          | 30.00           | PASS    |
|                                           |            | 8       | 7         |            | 22.59                     | 0.5            | 23.09      | 1.00          | 30.00           | PASS    |
|                                           |            | 15      | 0         |            | 22.48                     | 0.5            | 22.98      | 1.00          | 30.00           | PASS    |
|                                           | Middle     | 1       | 0         | QPSK       | 23.39                     | 0.5            | 23.89      | 1.00          | 30.00           | PASS    |
|                                           |            | 1       | 7         |            | 23.35                     | 0.5            | 23.85      | 1.00          | 30.00           | PASS    |
|                                           |            | 1       | 14        |            | 23.34                     | 0.5            | 23.84      | 1.00          | 30.00           | PASS    |
|                                           |            | 8       | 0         |            | 23.24                     | 0.5            | 23.74      | 1.00          | 30.00           | PASS    |
|                                           |            | 8       | 4         |            | 23.11                     | 0.5            | 23.61      | 1.00          | 30.00           | PASS    |
|                                           |            | 8       | 7         |            | 23.00                     | 0.5            | 23.50      | 1.00          | 30.00           | PASS    |
|                                           |            | 15      | 0         |            | 22.87                     | 0.5            | 23.37      | 1.00          | 30.00           | PASS    |
|                                           |            | 1       | 0         | 16QAM      | 23.32                     | 0.5            | 23.82      | 1.00          | 30.00           | PASS    |
|                                           |            | 1       | 7         |            | 23.29                     | 0.5            | 23.79      | 1.00          | 30.00           | PASS    |
|                                           |            | 1       | 14        |            | 23.21                     | 0.5            | 23.71      | 1.00          | 30.00           | PASS    |
|                                           |            | 8       | 0         |            | 23.23                     | 0.5            | 23.73      | 1.00          | 30.00           | PASS    |
|                                           |            | 8       | 4         |            | 22.99                     | 0.5            | 23.49      | 1.00          | 30.00           | PASS    |
|                                           |            | 8       | 7         |            | 22.86                     | 0.5            | 23.36      | 1.00          | 30.00           | PASS    |
|                                           |            | 15      | 0         |            | 22.75                     | 0.5            | 23.25      | 1.00          | 30.00           | PASS    |
|                                           | Highest    | 1       | 0         | QPSK       | 23.42                     | 0.5            | 23.92      | 1.00          | 30.00           | PASS    |
|                                           |            | 1       | 7         |            | 23.25                     | 0.5            | 23.75      | 1.00          | 30.00           | PASS    |
|                                           |            | 1       | 14        |            | 23.08                     | 0.5            | 23.58      | 1.00          | 30.00           | PASS    |
|                                           |            | 8       | 0         |            | 22.90                     | 0.5            | 23.40      | 1.00          | 30.00           | PASS    |
|                                           |            | 8       | 4         |            | 22.78                     | 0.5            | 23.28      | 1.00          | 30.00           | PASS    |
|                                           |            | 8       | 7         |            | 22.71                     | 0.5            | 23.21      | 1.00          | 30.00           | PASS    |
|                                           |            | 15      | 0         |            | 22.68                     | 0.5            | 23.18      | 1.00          | 30.00           | PASS    |
|                                           |            | 1       | 0         | 16QAM      | 23.27                     | 0.5            | 23.77      | 1.00          | 30.00           | PASS    |
|                                           |            | 1       | 7         |            | 23.11                     | 0.5            | 23.61      | 1.00          | 30.00           | PASS    |
|                                           |            | 1       | 14        |            | 22.90                     | 0.5            | 23.40      | 1.00          | 30.00           | PASS    |
|                                           |            | 8       | 0         |            | 22.85                     | 0.5            | 23.35      | 1.00          | 30.00           | PASS    |
|                                           |            | 8       | 4         |            | 22.71                     | 0.5            | 23.21      | 1.00          | 30.00           | PASS    |
|                                           |            | 8       | 7         |            | 22.60                     | 0.5            | 23.10      | 1.00          | 30.00           | PASS    |
|                                           |            | 15      | 0         |            | 22.67                     |                | 22.67      | 1.00          | 30.00           | PASS    |



| Radiated Power (EIRP) for LTE Band 66 /5M |            |         |           |            |                           |                |            |               |                 |         |
|-------------------------------------------|------------|---------|-----------|------------|---------------------------|----------------|------------|---------------|-----------------|---------|
| BW (MHz)                                  | UL Channel | RB Size | RB offset | Modulation | Conduction AVG Power(dBm) | Ant Gain (dBi) | EIRP (dBm) | EIRP Limit(W) | EIRP Limit(dBm) | Verdict |
| 5                                         | Lowest     | 1       | 0         | QPSK       | 23.45                     | 0.5            | 23.95      | 1.00          | 30.00           | PASS    |
|                                           |            | 1       | 12        |            | 23.25                     | 0.5            | 23.75      | 1.00          | 30.00           | PASS    |
|                                           |            | 1       | 24        |            | 23.25                     | 0.5            | 23.75      | 1.00          | 30.00           | PASS    |
|                                           |            | 12      | 0         |            | 23.23                     | 0.5            | 23.73      | 1.00          | 30.00           | PASS    |
|                                           |            | 12      | 6         |            | 23.18                     | 0.5            | 23.68      | 1.00          | 30.00           | PASS    |
|                                           |            | 12      | 11        |            | 23.18                     | 0.5            | 23.68      | 1.00          | 30.00           | PASS    |
|                                           |            | 25      | 0         |            | 23.11                     | 0.5            | 23.61      | 1.00          | 30.00           | PASS    |
|                                           |            | 1       | 0         | 16QAM      | 23.25                     | 0.5            | 23.75      | 1.00          | 30.00           | PASS    |
|                                           |            | 1       | 12        |            | 23.13                     | 0.5            | 23.63      | 1.00          | 30.00           | PASS    |
|                                           |            | 1       | 24        |            | 23.10                     | 0.5            | 23.60      | 1.00          | 30.00           | PASS    |
|                                           |            | 12      | 0         |            | 23.20                     | 0.5            | 23.70      | 1.00          | 30.00           | PASS    |
|                                           |            | 12      | 6         |            | 23.17                     | 0.5            | 23.67      | 1.00          | 30.00           | PASS    |
|                                           |            | 12      | 11        |            | 23.05                     | 0.5            | 23.55      | 1.00          | 30.00           | PASS    |
|                                           |            | 25      | 0         |            | 23.05                     | 0.5            | 23.55      | 1.00          | 30.00           | PASS    |
|                                           | Middle     | 1       | 0         | QPSK       | 23.49                     | 0.5            | 23.99      | 1.00          | 30.00           | PASS    |
|                                           |            | 1       | 12        |            | 23.33                     | 0.5            | 23.83      | 1.00          | 30.00           | PASS    |
|                                           |            | 1       | 24        |            | 23.14                     | 0.5            | 23.64      | 1.00          | 30.00           | PASS    |
|                                           |            | 12      | 0         |            | 23.13                     | 0.5            | 23.63      | 1.00          | 30.00           | PASS    |
|                                           |            | 12      | 6         |            | 22.98                     | 0.5            | 23.48      | 1.00          | 30.00           | PASS    |
|                                           |            | 12      | 11        |            | 22.82                     | 0.5            | 23.32      | 1.00          | 30.00           | PASS    |
|                                           |            | 25      | 0         |            | 22.64                     | 0.5            | 23.14      | 1.00          | 30.00           | PASS    |
|                                           |            | 1       | 0         | 16QAM      | 23.30                     | 0.5            | 23.80      | 1.00          | 30.00           | PASS    |
|                                           |            | 1       | 12        |            | 23.25                     | 0.5            | 23.75      | 1.00          | 30.00           | PASS    |
|                                           |            | 1       | 24        |            | 23.10                     | 0.5            | 23.60      | 1.00          | 30.00           | PASS    |
|                                           |            | 12      | 0         |            | 22.99                     | 0.5            | 23.49      | 1.00          | 30.00           | PASS    |
|                                           |            | 12      | 6         |            | 22.94                     | 0.5            | 23.44      | 1.00          | 30.00           | PASS    |
|                                           |            | 12      | 11        |            | 22.69                     | 0.5            | 23.19      | 1.00          | 30.00           | PASS    |
|                                           |            | 25      | 0         |            | 22.55                     | 0.5            | 23.05      | 1.00          | 30.00           | PASS    |
|                                           | Highest    | 1       | 0         | QPSK       | 23.53                     | 0.5            | 24.03      | 1.00          | 30.00           | PASS    |
|                                           |            | 1       | 12        |            | 23.45                     | 0.5            | 23.95      | 1.00          | 30.00           | PASS    |
|                                           |            | 1       | 24        |            | 23.41                     | 0.5            | 23.91      | 1.00          | 30.00           | PASS    |
|                                           |            | 12      | 0         |            | 23.26                     | 0.5            | 23.76      | 1.00          | 30.00           | PASS    |
|                                           |            | 12      | 6         |            | 23.10                     | 0.5            | 23.60      | 1.00          | 30.00           | PASS    |
|                                           |            | 12      | 11        |            | 23.10                     | 0.5            | 23.60      | 1.00          | 30.00           | PASS    |
|                                           |            | 25      | 0         |            | 22.92                     | 0.5            | 23.42      | 1.00          | 30.00           | PASS    |
|                                           |            | 1       | 0         | 16QAM      | 23.42                     | 0.5            | 23.92      | 1.00          | 30.00           | PASS    |
|                                           |            | 1       | 12        |            | 23.28                     | 0.5            | 23.78      | 1.00          | 30.00           | PASS    |
|                                           |            | 1       | 24        |            | 23.23                     | 0.5            | 23.73      | 1.00          | 30.00           | PASS    |
|                                           |            | 12      | 0         |            | 23.07                     | 0.5            | 23.57      | 1.00          | 30.00           | PASS    |
|                                           |            | 12      | 6         |            | 22.94                     | 0.5            | 23.44      | 1.00          | 30.00           | PASS    |
|                                           |            | 12      | 11        |            | 22.95                     | 0.5            | 23.45      | 1.00          | 30.00           | PASS    |
|                                           |            | 25      | 0         |            | 22.78                     |                | 22.78      | 1.00          | 30.00           | PASS    |



| Radiated Power (EIRP) for LTE Band 66 /10M |            |         |           |            |                           |                |            |               |                 |         |
|--------------------------------------------|------------|---------|-----------|------------|---------------------------|----------------|------------|---------------|-----------------|---------|
| BW (MHz)                                   | UL Channel | RB Size | RB offset | Modulation | Conduction AVG Power(dBm) | Ant Gain (dBi) | EIRP (dBm) | EIRP Limit(W) | EIRP Limit(dBm) | Verdict |
| 10                                         | Lowest     | 1       | 0         | QPSK       | 23.68                     | 0.5            | 24.18      | 1.00          | 30.00           | PASS    |
|                                            |            | 1       | 24        |            | 23.57                     | 0.5            | 24.07      | 1.00          | 30.00           | PASS    |
|                                            |            | 1       | 49        |            | 23.43                     | 0.5            | 23.93      | 1.00          | 30.00           | PASS    |
|                                            |            | 25      | 0         |            | 23.31                     | 0.5            | 23.81      | 1.00          | 30.00           | PASS    |
|                                            |            | 25      | 12        |            | 23.19                     | 0.5            | 23.69      | 1.00          | 30.00           | PASS    |
|                                            |            | 25      | 24        |            | 23.09                     | 0.5            | 23.59      | 1.00          | 30.00           | PASS    |
|                                            |            | 50      | 0         |            | 23.03                     | 0.5            | 23.53      | 1.00          | 30.00           | PASS    |
|                                            |            | 1       | 0         | 16QAM      | 23.66                     | 0.5            | 24.16      | 1.00          | 30.00           | PASS    |
|                                            |            | 1       | 24        |            | 23.47                     | 0.5            | 23.97      | 1.00          | 30.00           | PASS    |
|                                            |            | 1       | 49        |            | 23.31                     | 0.5            | 23.81      | 1.00          | 30.00           | PASS    |
|                                            |            | 25      | 0         |            | 23.22                     | 0.5            | 23.72      | 1.00          | 30.00           | PASS    |
|                                            |            | 25      | 12        |            | 23.06                     | 0.5            | 23.56      | 1.00          | 30.00           | PASS    |
|                                            |            | 25      | 24        |            | 23.01                     | 0.5            | 23.51      | 1.00          | 30.00           | PASS    |
|                                            |            | 50      | 0         |            | 22.86                     | 0.5            | 23.36      | 1.00          | 30.00           | PASS    |
|                                            | Middle     | 1       | 0         | QPSK       | 23.75                     | 0.5            | 24.25      | 1.00          | 30.00           | PASS    |
|                                            |            | 1       | 24        |            | 23.69                     | 0.5            | 24.19      | 1.00          | 30.00           | PASS    |
|                                            |            | 1       | 49        |            | 23.57                     | 0.5            | 24.07      | 1.00          | 30.00           | PASS    |
|                                            |            | 25      | 0         |            | 23.47                     | 0.5            | 23.97      | 1.00          | 30.00           | PASS    |
|                                            |            | 25      | 12        |            | 23.36                     | 0.5            | 23.86      | 1.00          | 30.00           | PASS    |
|                                            |            | 25      | 24        |            | 23.25                     | 0.5            | 23.75      | 1.00          | 30.00           | PASS    |
|                                            |            | 50      | 0         |            | 23.16                     | 0.5            | 23.66      | 1.00          | 30.00           | PASS    |
|                                            |            | 1       | 0         | 16QAM      | 23.66                     | 0.5            | 24.16      | 1.00          | 30.00           | PASS    |
|                                            |            | 1       | 24        |            | 23.52                     | 0.5            | 24.02      | 1.00          | 30.00           | PASS    |
|                                            |            | 1       | 49        |            | 23.57                     | 0.5            | 24.07      | 1.00          | 30.00           | PASS    |
|                                            |            | 25      | 0         |            | 23.34                     | 0.5            | 23.84      | 1.00          | 30.00           | PASS    |
|                                            |            | 25      | 12        |            | 23.25                     | 0.5            | 23.75      | 1.00          | 30.00           | PASS    |
|                                            |            | 25      | 24        |            | 23.08                     | 0.5            | 23.58      | 1.00          | 30.00           | PASS    |
|                                            |            | 50      | 0         |            | 23.06                     | 0.5            | 23.56      | 1.00          | 30.00           | PASS    |
|                                            | Highest    | 1       | 0         | QPSK       | 23.82                     | 0.5            | 24.32      | 1.00          | 30.00           | PASS    |
|                                            |            | 1       | 24        |            | 23.82                     | 0.5            | 24.32      | 1.00          | 30.00           | PASS    |
|                                            |            | 1       | 49        |            | 23.67                     | 0.5            | 24.17      | 1.00          | 30.00           | PASS    |
|                                            |            | 25      | 0         |            | 23.65                     | 0.5            | 24.15      | 1.00          | 30.00           | PASS    |
|                                            |            | 25      | 12        |            | 23.59                     | 0.5            | 24.09      | 1.00          | 30.00           | PASS    |
|                                            |            | 25      | 24        |            | 23.43                     | 0.5            | 23.93      | 1.00          | 30.00           | PASS    |
|                                            |            | 50      | 0         |            | 23.37                     | 0.5            | 23.87      | 1.00          | 30.00           | PASS    |
|                                            |            | 1       | 0         | 16QAM      | 23.70                     | 0.5            | 24.20      | 1.00          | 30.00           | PASS    |
|                                            |            | 1       | 24        |            | 23.75                     | 0.5            | 24.25      | 1.00          | 30.00           | PASS    |
|                                            |            | 1       | 49        |            | 23.49                     | 0.5            | 23.99      | 1.00          | 30.00           | PASS    |
|                                            |            | 25      | 0         |            | 23.55                     | 0.5            | 24.05      | 1.00          | 30.00           | PASS    |
|                                            |            | 25      | 12        |            | 23.41                     | 0.5            | 23.91      | 1.00          | 30.00           | PASS    |
|                                            |            | 25      | 24        |            | 23.42                     | 0.5            | 23.92      | 1.00          | 30.00           | PASS    |
|                                            |            | 50      | 0         |            | 23.22                     |                | 23.22      | 1.00          | 30.00           | PASS    |



| Radiated Power (EIRP) for LTE Band 66 /15M |            |         |           |            |                           |                |            |               |                 |         |
|--------------------------------------------|------------|---------|-----------|------------|---------------------------|----------------|------------|---------------|-----------------|---------|
| BW (MHz)                                   | UL Channel | RB Size | RB offset | Modulation | Conduction AVG Power(dBm) | Ant Gain (dBi) | EIRP (dBm) | EIRP Limit(W) | EIRP Limit(dBm) | Verdict |
| 15                                         | Lowest     | 1       | 0         | QPSK       | 23.89                     | 0.5            | 24.39      | 1.00          | 30.00           | PASS    |
|                                            |            | 1       | 37        |            | 23.77                     | 0.5            | 24.27      | 1.00          | 30.00           | PASS    |
|                                            |            | 1       | 74        |            | 23.63                     | 0.5            | 24.13      | 1.00          | 30.00           | PASS    |
|                                            |            | 36      | 0         |            | 23.52                     | 0.5            | 24.02      | 1.00          | 30.00           | PASS    |
|                                            |            | 36      | 18        |            | 23.44                     | 0.5            | 23.94      | 1.00          | 30.00           | PASS    |
|                                            |            | 36      | 39        |            | 23.40                     | 0.5            | 23.90      | 1.00          | 30.00           | PASS    |
|                                            |            | 75      | 0         |            | 23.33                     | 0.5            | 23.83      | 1.00          | 30.00           | PASS    |
|                                            |            | 1       | 0         | 16QAM      | 23.87                     | 0.5            | 24.37      | 1.00          | 30.00           | PASS    |
|                                            |            | 1       | 37        |            | 23.64                     | 0.5            | 24.14      | 1.00          | 30.00           | PASS    |
|                                            |            | 1       | 74        |            | 23.57                     | 0.5            | 24.07      | 1.00          | 30.00           | PASS    |
|                                            |            | 36      | 0         |            | 23.47                     | 0.5            | 23.97      | 1.00          | 30.00           | PASS    |
|                                            |            | 36      | 18        |            | 23.33                     | 0.5            | 23.83      | 1.00          | 30.00           | PASS    |
|                                            |            | 36      | 39        |            | 23.27                     | 0.5            | 23.77      | 1.00          | 30.00           | PASS    |
|                                            |            | 75      | 0         |            | 23.18                     | 0.5            | 23.68      | 1.00          | 30.00           | PASS    |
|                                            | Middle     | 1       | 0         | QPSK       | 23.95                     | 0.5            | 24.45      | 1.00          | 30.00           | PASS    |
|                                            |            | 1       | 37        |            | 23.75                     | 0.5            | 24.25      | 1.00          | 30.00           | PASS    |
|                                            |            | 1       | 74        |            | 23.59                     | 0.5            | 24.09      | 1.00          | 30.00           | PASS    |
|                                            |            | 36      | 0         |            | 23.47                     | 0.5            | 23.97      | 1.00          | 30.00           | PASS    |
|                                            |            | 36      | 18        |            | 23.27                     | 0.5            | 23.77      | 1.00          | 30.00           | PASS    |
|                                            |            | 36      | 39        |            | 23.23                     | 0.5            | 23.73      | 1.00          | 30.00           | PASS    |
|                                            |            | 75      | 0         |            | 23.22                     | 0.5            | 23.72      | 1.00          | 30.00           | PASS    |
|                                            |            | 1       | 0         | 16QAM      | 23.76                     | 0.5            | 24.26      | 1.00          | 30.00           | PASS    |
|                                            |            | 1       | 37        |            | 23.58                     | 0.5            | 24.08      | 1.00          | 30.00           | PASS    |
|                                            |            | 1       | 74        |            | 23.50                     | 0.5            | 24.00      | 1.00          | 30.00           | PASS    |
|                                            |            | 36      | 0         |            | 23.44                     | 0.5            | 23.94      | 1.00          | 30.00           | PASS    |
|                                            |            | 36      | 18        |            | 23.14                     | 0.5            | 23.64      | 1.00          | 30.00           | PASS    |
|                                            |            | 36      | 39        |            | 23.18                     | 0.5            | 23.68      | 1.00          | 30.00           | PASS    |
|                                            |            | 75      | 0         |            | 23.07                     | 0.5            | 23.57      | 1.00          | 30.00           | PASS    |
|                                            | Highest    | 1       | 0         | QPSK       | 23.99                     | 0.5            | 24.49      | 1.00          | 30.00           | PASS    |
|                                            |            | 1       | 37        |            | 23.84                     | 0.5            | 24.34      | 1.00          | 30.00           | PASS    |
|                                            |            | 1       | 74        |            | 23.74                     | 0.5            | 24.24      | 1.00          | 30.00           | PASS    |
|                                            |            | 36      | 0         |            | 23.55                     | 0.5            | 24.05      | 1.00          | 30.00           | PASS    |
|                                            |            | 36      | 18        |            | 23.55                     | 0.5            | 24.05      | 1.00          | 30.00           | PASS    |
|                                            |            | 36      | 39        |            | 23.49                     | 0.5            | 23.99      | 1.00          | 30.00           | PASS    |
|                                            |            | 75      | 0         |            | 23.45                     | 0.5            | 23.95      | 1.00          | 30.00           | PASS    |
|                                            |            | 1       | 0         | 16QAM      | 23.79                     | 0.5            | 24.29      | 1.00          | 30.00           | PASS    |
|                                            |            | 1       | 37        |            | 23.76                     | 0.5            | 24.26      | 1.00          | 30.00           | PASS    |
|                                            |            | 1       | 74        |            | 23.57                     | 0.5            | 24.07      | 1.00          | 30.00           | PASS    |
|                                            |            | 36      | 0         |            | 23.49                     | 0.5            | 23.99      | 1.00          | 30.00           | PASS    |
|                                            |            | 36      | 18        |            | 23.44                     | 0.5            | 23.94      | 1.00          | 30.00           | PASS    |
|                                            |            | 36      | 39        |            | 23.40                     | 0.5            | 23.90      | 1.00          | 30.00           | PASS    |
|                                            |            | 75      | 0         |            | 23.25                     |                | 23.25      | 1.00          | 30.00           | PASS    |



| Radiated Power (EIRP) for LTE Band 66 /20M |            |         |           |            |                           |                |            |               |                 |         |
|--------------------------------------------|------------|---------|-----------|------------|---------------------------|----------------|------------|---------------|-----------------|---------|
| BW (MHz)                                   | UL Channel | RB Size | RB offset | Modulation | Conduction AVG Power(dBm) | Ant Gain (dBi) | EIRP (dBm) | EIRP Limit(W) | EIRP Limit(dBm) | Verdict |
| 20                                         | Lowest     | 1       | 0         | QPSK       | 24.26                     | 0.5            | 24.76      | 1.00          | 30.00           | PASS    |
|                                            |            | 1       | 49        |            | 24.22                     | 0.5            | 24.72      | 1.00          | 30.00           | PASS    |
|                                            |            | 1       | 99        |            | 24.12                     | 0.5            | 24.62      | 1.00          | 30.00           | PASS    |
|                                            |            | 50      | 0         |            | 23.92                     | 0.5            | 24.42      | 1.00          | 30.00           | PASS    |
|                                            |            | 50      | 24        |            | 23.90                     | 0.5            | 24.40      | 1.00          | 30.00           | PASS    |
|                                            |            | 50      | 49        |            | 23.72                     | 0.5            | 24.22      | 1.00          | 30.00           | PASS    |
|                                            |            | 100     | 0         |            | 23.70                     | 0.5            | 24.20      | 1.00          | 30.00           | PASS    |
|                                            |            | 1       | 0         | 16QAM      | 24.25                     | 0.5            | 24.75      | 1.00          | 30.00           | PASS    |
|                                            |            | 1       | 49        |            | 24.14                     | 0.5            | 24.64      | 1.00          | 30.00           | PASS    |
|                                            |            | 1       | 99        |            | 24.08                     | 0.5            | 24.58      | 1.00          | 30.00           | PASS    |
|                                            |            | 50      | 0         |            | 23.87                     | 0.5            | 24.37      | 1.00          | 30.00           | PASS    |
|                                            |            | 50      | 24        |            | 23.79                     | 0.5            | 24.29      | 1.00          | 30.00           | PASS    |
|                                            |            | 50      | 49        |            | 23.59                     | 0.5            | 24.09      | 1.00          | 30.00           | PASS    |
|                                            |            | 100     | 0         |            | 23.69                     | 0.5            | 24.19      | 1.00          | 30.00           | PASS    |
|                                            | Middle     | 1       | 0         | QPSK       | 24.29                     | 0.5            | 24.79      | 1.00          | 30.00           | PASS    |
|                                            |            | 1       | 49        |            | 24.29                     | 0.5            | 24.79      | 1.00          | 30.00           | PASS    |
|                                            |            | 1       | 99        |            | 24.23                     | 0.5            | 24.73      | 1.00          | 30.00           | PASS    |
|                                            |            | 50      | 0         |            | 24.21                     | 0.5            | 24.71      | 1.00          | 30.00           | PASS    |
|                                            |            | 50      | 24        |            | 24.02                     | 0.5            | 24.52      | 1.00          | 30.00           | PASS    |
|                                            |            | 50      | 49        |            | 23.85                     | 0.5            | 24.35      | 1.00          | 30.00           | PASS    |
|                                            |            | 100     | 0         |            | 23.69                     | 0.5            | 24.19      | 1.00          | 30.00           | PASS    |
|                                            |            | 1       | 0         | 16QAM      | 24.25                     | 0.5            | 24.75      | 1.00          | 30.00           | PASS    |
|                                            |            | 1       | 49        |            | 24.25                     | 0.5            | 24.75      | 1.00          | 30.00           | PASS    |
|                                            |            | 1       | 99        |            | 24.14                     | 0.5            | 24.64      | 1.00          | 30.00           | PASS    |
|                                            |            | 50      | 0         |            | 24.19                     | 0.5            | 24.69      | 1.00          | 30.00           | PASS    |
|                                            |            | 50      | 24        |            | 23.95                     | 0.5            | 24.45      | 1.00          | 30.00           | PASS    |
|                                            |            | 50      | 49        |            | 23.65                     | 0.5            | 24.15      | 1.00          | 30.00           | PASS    |
|                                            |            | 100     | 0         |            | 23.62                     | 0.5            | 24.12      | 1.00          | 30.00           | PASS    |
|                                            | Highest    | 1       | 0         | QPSK       | 24.38                     | 0.5            | 24.88      | 1.00          | 30.00           | PASS    |
|                                            |            | 1       | 49        |            | 24.23                     | 0.5            | 24.73      | 1.00          | 30.00           | PASS    |
|                                            |            | 1       | 99        |            | 24.20                     | 0.5            | 24.70      | 1.00          | 30.00           | PASS    |
|                                            |            | 50      | 0         |            | 24.08                     | 0.5            | 24.58      | 1.00          | 30.00           | PASS    |
|                                            |            | 50      | 24        |            | 24.01                     | 0.5            | 24.51      | 1.00          | 30.00           | PASS    |
|                                            |            | 50      | 49        |            | 24.00                     | 0.5            | 24.50      | 1.00          | 30.00           | PASS    |
|                                            |            | 100     | 0         |            | 23.84                     | 0.5            | 24.34      | 1.00          | 30.00           | PASS    |
|                                            |            | 1       | 0         | 16QAM      | 24.25                     | 0.5            | 24.75      | 1.00          | 30.00           | PASS    |
|                                            |            | 1       | 49        |            | 24.03                     | 0.5            | 24.53      | 1.00          | 30.00           | PASS    |
|                                            |            | 1       | 99        |            | 24.19                     | 0.5            | 24.69      | 1.00          | 30.00           | PASS    |
|                                            |            | 50      | 0         |            | 23.93                     | 0.5            | 24.43      | 1.00          | 30.00           | PASS    |
|                                            |            | 50      | 24        |            | 23.95                     | 0.5            | 24.45      | 1.00          | 30.00           | PASS    |
|                                            |            | 50      | 49        |            | 23.83                     | 0.5            | 24.33      | 1.00          | 30.00           | PASS    |
|                                            |            | 100     | 0         |            | 23.67                     |                | 23.67      | 1.00          | 30.00           | PASS    |

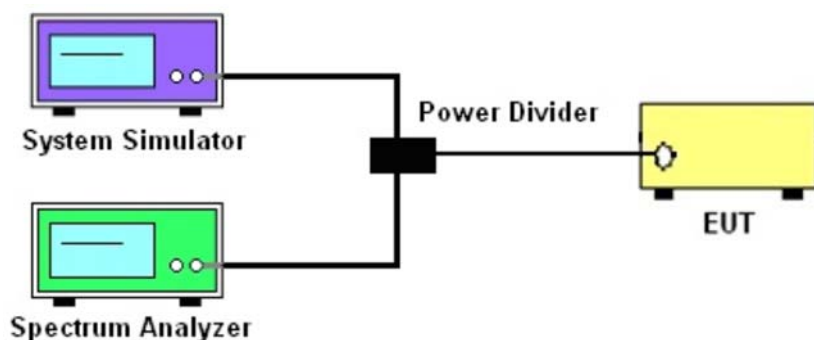
## 4. PEAK-TO-AVERAGE RATIO

### 4.1 DESCRIPTION OF THE CONDUCTED OUTPUT POWER MEASUREMENT

#### 4.1.1 MEASUREMENT METHOD

Use one of the procedures presented in 4.1.3 to measure the total peak power and record as PPK. Use one of the applicable procedures presented 4.1.3 to measure the total average power and record as PAvg. Both the peak and average power levels must be expressed in the same logarithmic units (e.g., dBm). Determine the PAPR from:  
 $PAPR (dB) = PPK (dBm) - PAvg (dBm)$ .

#### 4.1.2 TEST SETUP



#### 4.1.3 TEST PROCEDURES

1. The testing follows FCC KDB 971168 D01 v03r01 Section 5.7 and ANSI C63.26 2015 Section 5.2.6.
2. The EUT was connected to spectrum and system simulator via a power divider
3. Select lowest, middle, and highest channels for each band and different modulation.
4. Set the test probe and measure the peak and average power of the spectrum analyzer
5. Record the deviation as Peak to Average Ratio.

|             | LTE    |        |        |        |         |         |
|-------------|--------|--------|--------|--------|---------|---------|
| LTE BW      | 1.4M   | 3M     | 5M     | 10M    | 15M     | 20M     |
| Span        | 3MHz   | 6MHz   | 10MHz  | 20MHz  | 30MHz   | 40MHz   |
| RBW         | 30kHz  | 30kHz  | 100kHz | 100kHz | 300kHz  | 300kHz  |
| VBW         | 100kHz | 100kHz | 300kHz | 300kHz | 1000kHz | 1000kHz |
| Detector    | PK/AVG | PK/AVG | PK/AVG | PK/AVG | PK/AVG  | PK/AVG  |
| Trace       | Max    | Max    | Max    | Max    | Max     | Max     |
| Sweep Count | Auto   | Auto   | Auto   | Auto   | Auto    | Auto    |



## 4.1.4 TEST RESULTS

| LTE Band 2 PAR [dBm] |         |            |        |        |         |
|----------------------|---------|------------|--------|--------|---------|
| BW [MHz]             | RB Size | Modulation | Lowest | Middle | Highest |
|                      |         |            | P-A    | P-A    | P-A     |
| 20                   | 1       | QPSK       | 4.89   | 4.42   | 4.5     |
| 20                   | 100     |            | 5.76   | 5.8    | 5.53    |
| 20                   | 1       | 16-QAM     | 5.93   | 5.24   | 5.53    |
| 20                   | 100     |            | 6.49   | 6.43   | 6.44    |
| Limit                |         |            | ≤13dB  |        |         |

| LTE Band 4 PAR [dBm] |         |            |        |        |         |
|----------------------|---------|------------|--------|--------|---------|
| BW [MHz]             | RB Size | Modulation | Lowest | Middle | Highest |
|                      |         |            | P-A    | P-A    | P-A     |
| 20                   | 1       | QPSK       | 4.88   | 4.11   | 2.84    |
| 20                   | 100     |            | 5.09   | 5.51   | 5.04    |
| 20                   | 1       | 16-QAM     | 5.85   | 5.03   | 3.5     |
| 20                   | 100     |            | 5.88   | 6.18   | 5.94    |
| Limit                |         |            | ≤13dB  |        |         |

| LTE Band 5 PAR [dBm] |         |            |        |        |         |
|----------------------|---------|------------|--------|--------|---------|
| BW [MHz]             | RB Size | Modulation | Lowest | Middle | Highest |
|                      |         |            | P-A    | P-A    | P-A     |
| 10                   | 1       | QPSK       | 4.74   | 5.1    | 4.62    |
| 10                   | 50      |            | 5.37   | 5.45   | 5.43    |
| 10                   | 1       | 16-QAM     | 5.52   | 5.67   | 5.31    |
| 10                   | 50      |            | 5.98   | 6.19   | 6.29    |
| Limit                |         |            | ≤13dB  |        |         |

| LTE Band 12 PAR [dBm] |         |            |        |        |         |
|-----------------------|---------|------------|--------|--------|---------|
| BW [MHz]              | RB Size | Modulation | Lowest | Middle | Highest |
|                       |         |            | P-A    | P-A    | P-A     |
| 10                    | 1       | QPSK       | 2.97   | 4.29   | 2.93    |
| 10                    | 50      |            | 4.6    | 4.62   | 4.53    |
| 10                    | 1       | 16-QAM     | 3.73   | 5.23   | 3.99    |
| 10                    | 50      |            | 5.33   | 5.31   | 5.47    |
| Limit                 |         |            | ≤13dB  |        |         |

| LTE Band 66 PAR [dBm] |         |            |        |        |         |
|-----------------------|---------|------------|--------|--------|---------|
| BW [MHz]              | RB Size | Modulation | Lowest | Middle | Highest |
|                       |         |            | P-A    | P-A    | P-A     |
| 20                    | 1       | QPSK       | 4.84   | 2.74   | 4.55    |
| 20                    | 100     |            | 5.14   | 5.14   | 5.21    |
| 20                    | 1       | 16-QAM     | 5.44   | 3.98   | 5.92    |
| 20                    | 100     |            | 5.92   | 5.99   | 6.08    |
| Limit                 |         |            | ≤13dB  |        |         |

Note: Test chart See Appendix D

## 5. OCCUPIED BANDWIDTH

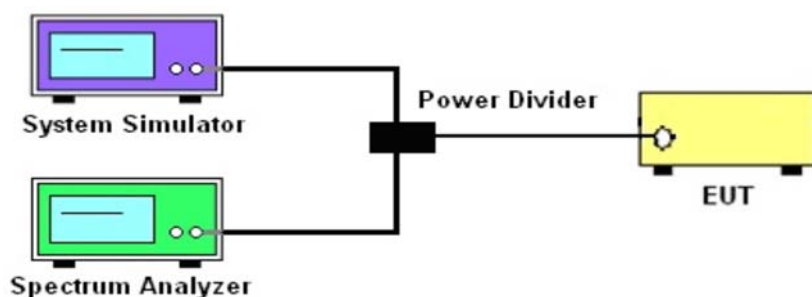
### 5.1 DESCRIPTION OF OCCUPIED BANDWIDTH MEASUREMENT

#### 5.1.1 MEASUREMENT METHOD

1.The occupied bandwidth is the width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5% of the total mean transmitted power.

2.The 26 db emission bandwidth is defined as the frequency range between two points, one above and one below the carrier frequency, at which the spectral density of the emission is attenuated 26 db below the maximum in-band spectral density of the modulated signal. spectral density (power per unit bandwidth) is to be measured with a detector of resolution bandwidth equal to approximately 1.0% of the emission bandwidth.

#### 5.1.2 TEST SETUP



#### 5.1.3 TEST PROCEDURES

1. The testing follows FCC KDB 971168 D01 v03r01 Section 4.2 and 4.3.
2. The EUT was connected to spectrum and system simulator via a power divider.
3. Select lowest, middle, and highest channels for each band and different modulation.
4. Set the test probe and measure the Occupied Bandwidth of the spectrum analyzer.
5. Measure and record the Occupied Bandwidth from the Spectrum Analyzer.

|             | LTE    |        |        |        |         |         |
|-------------|--------|--------|--------|--------|---------|---------|
| LTE BW      | 1.4M   | 3M     | 5M     | 10M    | 15M     | 20M     |
| Span        | 3MHz   | 6MHz   | 10MHz  | 20MHz  | 30MHz   | 40MHz   |
| RBW         | 30kHz  | 30kHz  | 100kHz | 100kHz | 300kHz  | 300kHz  |
| VBW         | 100kHz | 100kHz | 300kHz | 300kHz | 1000kHz | 1000kHz |
| Detector    | PK     | PK     | PK     | PK     | PK      | PK      |
| Trace       | Max    | Max    | Max    | Max    | Max     | Max     |
| Sweep Count | Auto   | Auto   | Auto   | Auto   | Auto    | Auto    |



## 5.1.4 MEASUREMENT RESULT

| LTE Band 2 Bandwidth [MHz] |        |        |         |        |         |         |         |
|----------------------------|--------|--------|---------|--------|---------|---------|---------|
| BW [MHz]                   | Mode   | Lowest |         | Middle |         | Highest |         |
|                            |        | 99% BW | 26dB BW | 99% BW | 26dB BW | 99% BW  | 26dB BW |
| 1.4                        | QPSK   | 1.101  | 1.278   | 1.092  | 1.286   | 1.0964  | 1.297   |
| 1.4                        | 16-QAM | 1.0931 | 1.287   | 1.102  | 1.308   | 1.089   | 1.279   |
| 3                          | QPSK   | 2.674  | 2.844   | 2.681  | 2.865   | 2.678   | 2.866   |
| 3                          | 16-QAM | 2.671  | 2.844   | 2.672  | 2.862   | 2.675   | 2.853   |
| 5                          | QPSK   | 4.53   | 5.15    | 4.5183 | 5.186   | 4.512   | 5.165   |
| 5                          | 16-QAM | 4.513  | 5.146   | 4.5381 | 5.174   | 4.534   | 5.177   |
| 10                         | QPSK   | 8.952  | 9.857   | 8.952  | 9.943   | 8.938   | 9.803   |
| 10                         | 16-QAM | 8.949  | 9.824   | 8.946  | 9.848   | 8.941   | 9.727   |
| 15                         | QPSK   | 13.462 | 15.02   | 13.499 | 15.15   | 13.509  | 15.01   |
| 15                         | 16-QAM | 13.497 | 15.01   | 13.501 | 14.95   | 13.504  | 14.97   |
| 20                         | QPSK   | 17.947 | 19.74   | 17.917 | 19.45   | 17.898  | 19.48   |
| 20                         | 16-QAM | 17.933 | 20.77   | 17.916 | 19.34   | 17.958  | 19.6    |

| LTE Band 4 Bandwidth [MHz] |        |        |         |        |         |         |         |
|----------------------------|--------|--------|---------|--------|---------|---------|---------|
| BW [MHz]                   | Mode   | Lowest |         | Middle |         | Highest |         |
|                            |        | 99% BW | 26dB BW | 99% BW | 26dB BW | 99% BW  | 26dB BW |
| 1.4                        | QPSK   | 1.0984 | 1.341   | 1.0972 | 1.306   | 1.11    | 1.326   |
| 1.4                        | 16-QAM | 1.082  | 1.296   | 1.0967 | 1.303   | 1.097   | 1.304   |
| 3                          | QPSK   | 2.683  | 2.881   | 2.678  | 2.862   | 2.679   | 2.688   |
| 3                          | 16-QAM | 2.675  | 2.858   | 2.6755 | 2.855   | 2.6753  | 2.865   |
| 5                          | QPSK   | 4.532  | 5.259   | 4.514  | 5.197   | 4.522   | 5.259   |
| 5                          | 16-QAM | 4.534  | 5.244   | 4.51   | 5.135   | 4.535   | 5.166   |
| 10                         | QPSK   | 8.958  | 9.155   | 8.938  | 9.808   | 8.965   | 10.14   |
| 10                         | 16-QAM | 8.94   | 9.733   | 8.944  | 9.804   | 8.956   | 9.816   |
| 15                         | QPSK   | 13.456 | 15.02   | 13.506 | 15.05   | 13.482  | 15.18   |
| 15                         | 16-QAM | 13.497 | 15      | 13.494 | 14.94   | 13.517  | 15.01   |
| 20                         | QPSK   | 17.903 | 19.41   | 17.897 | 19.42   | 17.975  | 19.85   |
| 20                         | 16-QAM | 17.906 | 19.38   | 17.925 | 19.48   | 17.956  | 19.68   |

| LTE Band 5 Bandwidth [MHz] |        |        |         |        |         |         |         |
|----------------------------|--------|--------|---------|--------|---------|---------|---------|
| BW [MHz]                   | Mode   | Lowest |         | Middle |         | Highest |         |
|                            |        | 99% BW | 26dB BW | 99% BW | 26dB BW | 99% BW  | 26dB BW |
| 1.4                        | QPSK   | 1.094  | 1.305   | 1.104  | 1.277   | 1.0925  | 1.282   |
| 1.4                        | 16-QAM | 1.097  | 1.307   | 1.092  | 1.274   | 1.094   | 1.279   |
| 3                          | QPSK   | 2.6755 | 2.863   | 2.672  | 2.848   | 2.6816  | 2.86    |
| 3                          | 16-QAM | 2.675  | 2.848   | 2.672  | 2.853   | 2.672   | 2.838   |
| 5                          | QPSK   | 4.5023 | 5.01    | 4.508  | 5.134   | 4.534   | 5.178   |
| 5                          | 16-QAM | 4.521  | 5.151   | 4.543  | 5.179   | 4.533   | 5.204   |
| 10                         | QPSK   | 8.949  | 9.829   | 8.961  | 9.94    | 8.932   | 9.787   |
| 10                         | 16-QAM | 8.945  | 9.821   | 8.95   | 9.801   | 8.936   | 9.818   |



| LTE Band 12 Bandwidth [MHz] |        |        |         |        |         |         |         |
|-----------------------------|--------|--------|---------|--------|---------|---------|---------|
| BW [MHz]                    | Mode   | Lowest |         | Middle |         | Highest |         |
|                             |        | 99% BW | 26dB BW | 99% BW | 26dB BW | 99% BW  | 26dB BW |
| 1.4                         | QPSK   | 1.097  | 1.396   | 1.1051 | 1.31    | 1.1     | 1.334   |
| 1.4                         | 16-QAM | 1.1007 | 1.3     | 1.096  | 1.288   | 1.096   | 1.312   |
| 3                           | QPSK   | 2.674  | 2.853   | 2.678  | 2.869   | 2.682   | 2.863   |
| 3                           | 16-QAM | 2.67   | 2.849   | 2.67   | 2.854   | 2.681   | 2.857   |
| 5                           | QPSK   | 4.526  | 5.192   | 4.519  | 5.126   | 4.539   | 5.242   |
| 5                           | 16-QAM | 4.557  | 5.176   | 4.522  | 5.222   | 4.548   | 5.281   |
| 10                          | QPSK   | 9.001  | 10.06   | 8.895  | 9.594   | 8.942   | 9.852   |
| 10                          | 16-QAM | 8.99   | 9.667   | 8.892  | 9.635   | 8.928   | 9.803   |
| LTE Band 66 Bandwidth [MHz] |        |        |         |        |         |         |         |
| BW [MHz]                    | Mode   | Lowest |         | Middle |         | Highest |         |
|                             |        | 99% BW | 26dB BW | 99% BW | 26dB BW | 99% BW  | 26dB BW |
| 1.4                         | QPSK   | 1.098  | 1.348   | 1.096  | 1.308   | 1.102   | 1.285   |
| 1.4                         | 16-QAM | 1.096  | 1.283   | 1.099  | 1.308   | 1.089   | 1.276   |
| 3                           | QPSK   | 2.68   | 2.871   | 2.674  | 2.858   | 2.679   | 2.856   |
| 3                           | 16-QAM | 2.676  | 2.849   | 2.673  | 2.864   | 2.673   | 2.862   |
| 5                           | QPSK   | 4.514  | 5.206   | 4.531  | 5.232   | 4.52    | 5.175   |
| 5                           | 16-QAM | 4.541  | 5.185   | 4.535  | 5.235   | 4.507   | 5.14    |
| 10                          | QPSK   | 8.938  | 9.162   | 8.9596 | 9.9     | 8.938   | 9.798   |
| 10                          | 16-QAM | 8.946  | 9.809   | 8.948  | 9.834   | 8.942   | 9.758   |
| 15                          | QPSK   | 13.505 | 14.93   | 13.528 | 15.1    | 13.442  | 14.89   |
| 15                          | 16-QAM | 13.502 | 14.95   | 13.51  | 15.06   | 13.478  | 14.91   |
| 20                          | QPSK   | 17.927 | 19.55   | 17.95  | 19.57   | 17.877  | 19.4    |
| 20                          | 16-QAM | 17.922 | 19.59   | 17.953 | 19.65   | 17.944  | 19.52   |

Note: Test chart See Appendix A



## 6. CONDUCTED BAND EDGE

### 6.1 DESCRIPTION OF CONDUCTED BAND EDGE MEASUREMENT

#### 6.1.1 MEASUREMENT METHOD

##### 1. §22.917(a)

For operations in the 824 – 849 MHz band, the FCC limit is  $43 + 10\log_{10}(P[\text{Watts}])$  dB below the transmitter power  $P(\text{Watts})$  in a 100kHz bandwidth. However, in the 1MHz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

##### 2. §24.238 (a)

For operations in the 1850-1910 and 1930-1990 MHz band, the FCC limit is  $43 + 10\log_{10}(P[\text{Watts}])$  dB below the transmitter power  $P(\text{Watts})$  in a 1MHz bandwidth. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed

##### 3. §27.53 (h)

For operations in the 1710 – 1755 MHz band, the FCC limit is  $43 + 10\log_{10}(P[\text{Watts}])$  dB below the transmitter power  $P(\text{Watts})$  in a 1 MHz bandwidth. However, in the 1MHz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

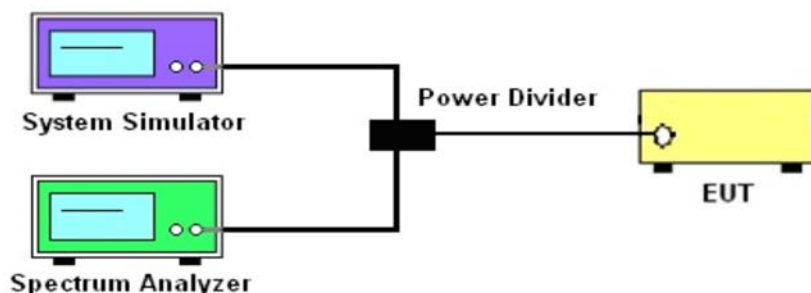
##### 4. §27.53(m)(4)

For operations in the 2500 MHz ~ 2570 MHz band this section, the attenuation factor shall be not less than  $40 + 10 \log (P)$  dB on all frequencies between the channel edge and 5 megahertz from the channel edge,  $43 + 10 \log (P)$  dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and  $55 + 10 \log (P)$  dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less than  $43 + 10 \log (P)$  dB on all frequencies between 2490.5 MHz and 2496 MHz and  $55 + 10 \log (P)$  dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

##### 5. §27.53 (g)

For operations in the 698 -746 MHz band, the FCC limit is  $43 + 10\log_{10}(P[\text{Watts}])$  dB below the transmitter power  $P(\text{Watts})$  in a 100 kHz bandwidth. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

## 6.1.2 TEST SETUP



## 6.1.3 TEST PROCEDURES

1. The testing FCC KDB 971168 D01 v03r01 Section 6.0 and ANSI C63.26 2015 Section 5.7.
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. The band edges of low and high channels for the highest RF powers were measured. Set RBW  $\geq 1\%$  EBW in the 1MHz band immediately outside and adjacent to the band edge.
4. Set spectrum analyzer with RMS/AVG detector.
5. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
6. The limit line is derived from  $43 + 10\log(P)$  dB below the transmitter power P(Watts)
 
$$= P(W) - [43 + 10\log(P)] \text{ (dB)}$$

$$= [30 + 10\log(P)] \text{ (dBm)} - [43 + 10\log(P)] \text{ (dB)}$$

$$= -13\text{dBm}.$$

Band 7:

$$= P(W) - [55 + 10\log(P)] \text{ (dB)}$$

$$= [30 + 10\log(P)] \text{ (dBm)} - [55 + 10\log(P)] \text{ (dB)}$$

$$= -25\text{dBm}.$$

|             | LTE    |        |        |        |         |         |
|-------------|--------|--------|--------|--------|---------|---------|
| LTE BW      | 1.4M   | 3M     | 5M     | 10M    | 15M     | 20M     |
| Span        | 12MHz  | 13MHz  | 15MHz  | 20MHz  | 25MHz   | 30MHz   |
| RBW         | 30kHz  | 30kHz  | 100kHz | 100kHz | 300kHz  | 300kHz  |
| VBW         | 100kHz | 100kHz | 300kHz | 300kHz | 1000kHz | 1000kHz |
| Detector    | RMS    | RMS    | RMS    | RMS    | RMS     | RMS     |
| Trace       | Max    | Max    | Max    | Max    | Max     | Max     |
| Sweep Count | Auto   | Auto   | Auto   | Auto   | Auto    | Auto    |

## 6.1.4 MEASUREMENT RESULT

Note: Test chart See Appendix B

## 7. CONDUCTED SPURIOUS EMISSION

### 7.1 DESCRIPTION OF CONDUCTED SPURIOUS EMISSION MEASUREMENT

#### 7.1.1 MEASUREMENT METHOD

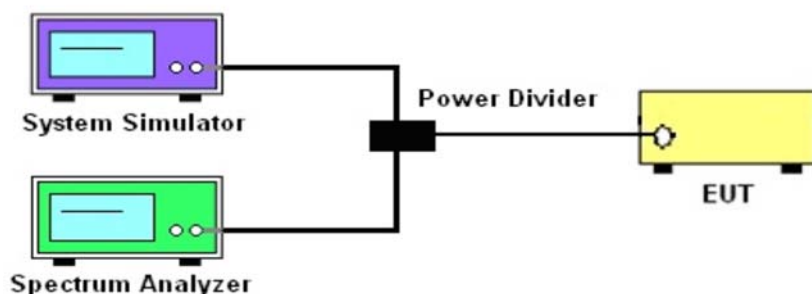
The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least  $43 + 10 \log (P)$  dB.

For Band 7:

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

It is measured by means of a calibrated spectrum analyzer and scanned from 30 MHz up to a frequency including its 10th harmonic.

#### 7.1.2 TEST SETUP



#### 7.1.3 TEST PROCEDURES

1. The testing FCC KDB 971168 D01 v03r01 Section 6.0 and ANSI C63.26 2015 Section 5.7.
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement
4. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
5. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
6. The limit line is derived from  $43 + 10\log(P)$  dB below the transmitter power P(Watts)  
 $= P(W) - [43 + 10\log(P)] \text{ (dB)} = [30 + 10\log(P)] \text{ (dBm)} - [43 + 10\log(P)] \text{ (dB)}$   
 $= -13\text{dBm}.$

For Band 7:  $P(W) - [43 + 10\log(P)] \text{ (dB)} = -25\text{dBm}$

|          | LTE     |         |         |         |         |         |
|----------|---------|---------|---------|---------|---------|---------|
| LTE BW   | 1.4M    | 3M      | 5M      | 10M     | 15M     | 20M     |
| Span     | Auto    | Auto    | Auto    | Auto    | Auto    | Auto    |
| RBW      | 1000kHz | 1000kHz | 1000kHz | 1000kHz | 1000kHz | 1000kHz |
| VBW      | 3000kHz | 3000kHz | 3000kHz | 3000kHz | 3000kHz | 3000kHz |
| Detector | PK      | PK      | PK      | PK      | PK      | PK      |
| Trace    | Max     | Max     | Max     | Max     | Max     | Max     |

#### 7.1.4 TEST RESULTS

Note: Test chart See Appendix C

## 8. RADIATED SPURIOUS EMISSION

### 8.1 DESCRIPTION OF RADIATED SPURIOUS EMISSION

#### 8.1.1 MEASUREMENT METHOD

The radiated spurious emission was measured by substitution method according to ANSI C63.26 2015. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least  $43 + 10 \log (P)$  dB.

For Band 7 The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least  $55 + 10 \log (P)$  dB. The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

#### 8.1.2 TEST SETUP

The procedure of radiated spurious emissions is as follows:

a) Pre-calibration With pre-calibration method, the Radiated Spurious Emissions(RSE) is calculated as,  $RSE = Rx \text{ (dBuV)} + CL \text{ (dB)} + SA \text{ (dB)} + Gain \text{ (dBi)} - 107 \text{ (dBuV to dBm)}$  The SA is calibrated using following setup.

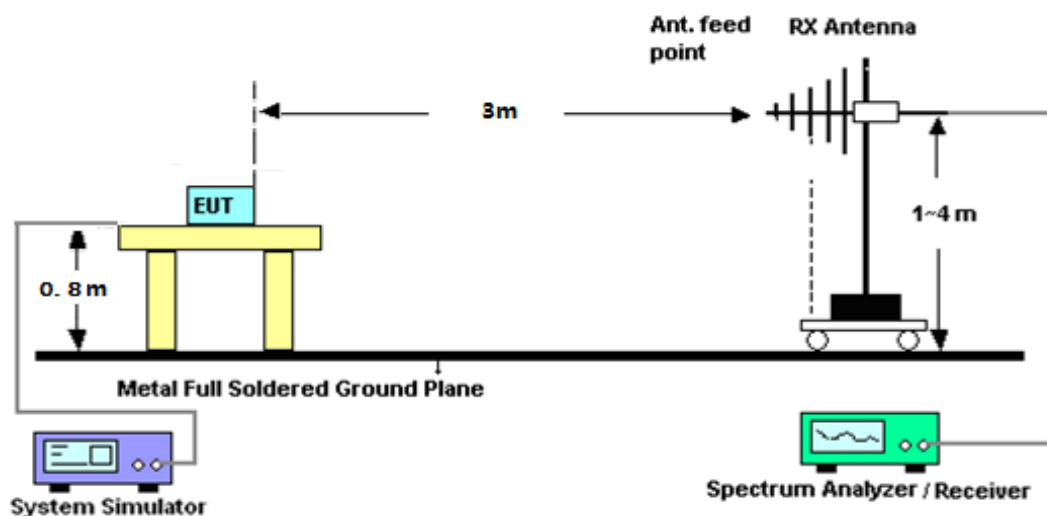
b) EUT was placed on 1.5 m non-conductive stand at a 3 m test distance from the receive antenna. A receiving antenna was placed on the antenna mast 3 m from the test item for emission measurements. The height of receiving antenna is 0.8m. The test setup refers to figure below. Detected emissions were maximized at each frequency by rotating the test item and adjusting the receiving antenna polarization. The radiated emission measurements of all non-harmonic and harmonics of the transmit frequency through the 10th harmonic measured with peak detector and 1MHz bandwidth.

Radiated emissions measurements were made only at the upper, middle, and lower carrier frequencies It was decided that measurements at these three carrier frequencies would be sufficient to demonstrate compliance with emissions limits because it was seen that all the significant spurs occur well outside the band and no radiation was seen from a carrier in one block of any band into any of the other blocks.

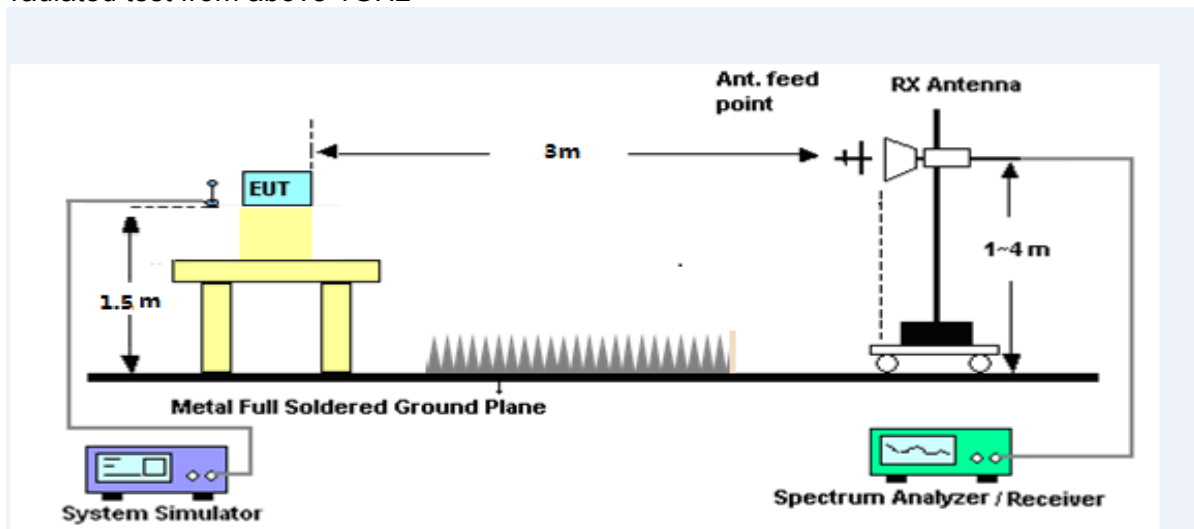
The substitution method is used. Substitution values at each frequency are measured before and saved to the test software. A "reference path loss" is established and the ARpl is the attenuation of "reference path loss", and including the gain of receive antenna, the gain of the preamplifier, the cable loss and the air loss. The measurement results are obtained as described below:

Power=PMea+ARpl

For radiated test from 30MHz to 1GHz



For radiated test from above 1GHz



### 8.1.3 TEST PROCEDURES

1. The testing FCC KDB 971168 D01 Section 7 and ANSI C63.26 2015 Section 5.5.
2. The EUT was placed on a rotatable wooden table with 1.5 meter above ground.
3. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
4. The table was rotated 360 degrees to determine the position of the highest spurious emission.
5. The height of the receiving antenna is varied between one meter and four meters to search the maximum spurious emission for both horizontal and vertical polarizations
6. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
7. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
8. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
9. Taking the record of output power at antenna port.
10. Repeat step 7 to step 8 for another polarization.
11. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

The limit line is derived from  $43 + 10\log(P)$ dB below the transmitter power P(Watts)  
 $= P(W) - [43 + 10\log(P)]$  (dB)  
 $= [30 + 10\log(P)]$  (dBm) -  $[43 + 10\log(P)]$  (dB)  
 $= -13$ dBm

For Band 7:

The limit line is derived from  $55 + 10\log(P)$ dB below the transmitter power P(Watts)  
 $= [30 + 10\log(P)]$  (dBm) -  $[55 + 10\log(P)]$  (dB)  
 $= -25$ dBm

$P_{Mea} = S.G \text{ Level} + \text{Ant-Cable loss}; \text{Margin} = P_{Mea} - \text{Limit}.$



## 8.1.4 TEST RESULTS

| LTE Band 2 / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest  |               |          |       |            |             |              |          |
|-------------------------------------------------------------------------------------|---------------|----------|-------|------------|-------------|--------------|----------|
| Frequency(MHz)                                                                      | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea (dBm) | Limit (dBm) | Margin (dBm) | Polarity |
| 3701.21                                                                             | -34.08        | 12.60    | 12.93 | -34.41     | -13.00      | -21.41       | H        |
| 5552.13                                                                             | -34.67        | 13.10    | 17.11 | -38.68     | -13.00      | -25.68       | H        |
| 7402.64                                                                             | -32.63        | 11.50    | 22.20 | -43.33     | -13.00      | -30.33       | H        |
| 3701.21                                                                             | -35.11        | 12.60    | 12.93 | -35.44     | -13.00      | -22.44       | V        |
| 5552.13                                                                             | -34.80        | 13.10    | 17.11 | -38.81     | -13.00      | -25.81       | V        |
| 7402.64                                                                             | -32.88        | 11.50    | 22.20 | -43.58     | -13.00      | -30.58       | V        |
| LTE Band 2 / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle  |               |          |       |            |             |              |          |
| Frequency(MHz)                                                                      | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea (dBm) | Limit (dBm) | Margin (dBm) | Polarity |
| 3760.15                                                                             | -33.63        | 12.60    | 12.93 | -33.96     | -13.00      | -20.96       | H        |
| 5640.00                                                                             | -34.95        | 13.10    | 17.11 | -38.96     | -13.00      | -25.96       | H        |
| 7519.91                                                                             | -32.55        | 11.50    | 22.20 | -43.25     | -13.00      | -30.25       | H        |
| 3760.15                                                                             | -35.88        | 12.60    | 12.93 | -36.21     | -13.00      | -23.21       | V        |
| 5640.00                                                                             | -34.36        | 13.10    | 17.11 | -38.37     | -13.00      | -25.37       | V        |
| 7519.91                                                                             | -32.55        | 11.50    | 22.20 | -43.25     | -13.00      | -30.25       | V        |
| LTE Band 2 / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest |               |          |       |            |             |              |          |
| Frequency(MHz)                                                                      | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea (dBm) | Limit (dBm) | Margin (dBm) | Polarity |
| 3818.53                                                                             | -34.62        | 12.60    | 12.93 | -34.95     | -13.00      | -21.95       | H        |
| 5727.64                                                                             | -34.66        | 13.10    | 17.11 | -38.67     | -13.00      | -25.67       | H        |
| 7636.95                                                                             | -32.36        | 11.50    | 22.20 | -43.06     | -13.00      | -30.06       | H        |
| 3818.53                                                                             | -35.29        | 12.60    | 12.93 | -35.62     | -13.00      | -22.62       | V        |
| 5727.64                                                                             | -35.01        | 13.10    | 17.11 | -39.02     | -13.00      | -26.02       | V        |
| 7636.95                                                                             | -32.57        | 11.50    | 22.20 | -43.27     | -13.00      | -30.27       | V        |



| LTE Band 2 / 3MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest  |               |          |       |        |        |        |          |
|-----------------------------------------------------------------------------------|---------------|----------|-------|--------|--------|--------|----------|
| Frequency(MHz)                                                                    | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea   | Limit  | Margin | Polarity |
|                                                                                   |               |          |       | (dBm)  | (dBm)  | (dBm)  |          |
| 3703.16                                                                           | -33.64        | 12.60    | 12.93 | -33.97 | -13.00 | -20.97 | H        |
| 5554.35                                                                           | -34.71        | 13.10    | 17.11 | -38.72 | -13.00 | -25.72 | H        |
| 7406.01                                                                           | -33.54        | 11.50    | 22.20 | -44.24 | -13.00 | -31.24 | H        |
| 3703.16                                                                           | -35.01        | 12.60    | 12.93 | -35.34 | -13.00 | -22.34 | V        |
| 5554.35                                                                           | -34.05        | 13.10    | 17.11 | -38.06 | -13.00 | -25.06 | V        |
| 7406.01                                                                           | -32.98        | 11.50    | 22.20 | -43.68 | -13.00 | -30.68 | V        |
| LTE Band 2 / 3MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle  |               |          |       |        |        |        |          |
| Frequency(MHz)                                                                    | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea   | Limit  | Margin | Polarity |
|                                                                                   |               |          |       | (dBm)  | (dBm)  | (dBm)  |          |
| 3759.91                                                                           | -34.43        | 12.60    | 12.93 | -34.76 | -13.00 | -21.76 | H        |
| 5640.15                                                                           | -35.11        | 13.10    | 17.11 | -39.12 | -13.00 | -26.12 | H        |
| 7520.25                                                                           | -32.68        | 11.50    | 22.20 | -43.38 | -13.00 | -30.38 | H        |
| 3759.91                                                                           | -35.69        | 12.60    | 12.93 | -36.02 | -13.00 | -23.02 | V        |
| 5640.15                                                                           | -34.77        | 13.10    | 17.11 | -38.78 | -13.00 | -25.78 | V        |
| 7520.25                                                                           | -31.84        | 11.50    | 22.20 | -42.54 | -13.00 | -29.54 | V        |
| LTE Band 2 / 3MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest |               |          |       |        |        |        |          |
| Frequency(MHz)                                                                    | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea   | Limit  | Margin | Polarity |
|                                                                                   |               |          |       | (dBm)  | (dBm)  | (dBm)  |          |
| 3817.32                                                                           | -33.66        | 12.60    | 12.93 | -33.99 | -13.00 | -20.99 | H        |
| 5725.29                                                                           | -35.21        | 13.10    | 17.11 | -39.22 | -13.00 | -26.22 | H        |
| 7633.84                                                                           | -32.20        | 11.50    | 22.20 | -42.90 | -13.00 | -29.90 | H        |
| 3817.32                                                                           | -34.97        | 12.60    | 12.93 | -35.30 | -13.00 | -22.30 | V        |
| 5725.29                                                                           | -34.05        | 13.10    | 17.11 | -38.06 | -13.00 | -25.06 | V        |
| 7633.84                                                                           | -31.89        | 11.50    | 22.20 | -42.59 | -13.00 | -29.59 | V        |



| LTE Band 2 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest  |               |          |       |               |                |                 |          |
|-----------------------------------------------------------------------------------|---------------|----------|-------|---------------|----------------|-----------------|----------|
| Frequency(MHz)                                                                    | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 3705.30                                                                           | -34.54        | 12.60    | 12.93 | -34.87        | -13.00         | -21.87          | H        |
| 5557.44                                                                           | -34.27        | 13.10    | 17.11 | -38.28        | -13.00         | -25.28          | H        |
| 7410.07                                                                           | -32.47        | 11.50    | 22.20 | -43.17        | -13.00         | -30.17          | H        |
| 3705.30                                                                           | -34.53        | 12.60    | 12.93 | -34.86        | -13.00         | -21.86          | V        |
| 5557.44                                                                           | -34.77        | 13.10    | 17.11 | -38.78        | -13.00         | -25.78          | V        |
| 7410.07                                                                           | -31.89        | 11.50    | 22.20 | -42.59        | -13.00         | -29.59          | V        |
| LTE Band 2 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle  |               |          |       |               |                |                 |          |
| Frequency(MHz)                                                                    | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 3759.90                                                                           | -34.24        | 12.60    | 12.93 | -34.57        | -13.00         | -21.57          | H        |
| 5640.13                                                                           | -35.07        | 13.10    | 17.11 | -39.08        | -13.00         | -26.08          | H        |
| 7519.98                                                                           | -33.36        | 11.50    | 22.20 | -44.06        | -13.00         | -31.06          | H        |
| 3759.90                                                                           | -34.69        | 12.60    | 12.93 | -35.02        | -13.00         | -22.02          | V        |
| 5640.13                                                                           | -34.62        | 13.10    | 17.11 | -38.63        | -13.00         | -25.63          | V        |
| 7519.98                                                                           | -32.19        | 11.50    | 22.20 | -42.89        | -13.00         | -29.89          | V        |
| LTE Band 2 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest |               |          |       |               |                |                 |          |
| Frequency(MHz)                                                                    | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 3815.14                                                                           | -34.20        | 12.60    | 12.93 | -34.53        | -13.00         | -21.53          | H        |
| 5722.26                                                                           | -35.04        | 13.10    | 17.11 | -39.05        | -13.00         | -26.05          | H        |
| 7630.15                                                                           | -32.35        | 11.50    | 22.20 | -43.05        | -13.00         | -30.05          | H        |
| 3815.14                                                                           | -35.36        | 12.60    | 12.93 | -35.69        | -13.00         | -22.69          | V        |
| 5722.26                                                                           | -35.10        | 13.10    | 17.11 | -39.11        | -13.00         | -26.11          | V        |
| 7630.15                                                                           | -33.03        | 11.50    | 22.20 | -43.73        | -13.00         | -30.73          | V        |



| LTE Band 2 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest  |               |          |       |               |                |                 |          |
|------------------------------------------------------------------------------------|---------------|----------|-------|---------------|----------------|-----------------|----------|
| Frequency(MHz)                                                                     | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 3710.46                                                                            | -34.85        | 12.60    | 12.93 | -35.18        | -13.00         | -22.18          | H        |
| 5565.33                                                                            | -34.74        | 13.10    | 17.11 | -38.75        | -13.00         | -25.75          | H        |
| 7419.92                                                                            | -32.21        | 11.50    | 22.20 | -42.91        | -13.00         | -29.91          | H        |
| 3710.46                                                                            | -35.20        | 12.60    | 12.93 | -35.53        | -13.00         | -22.53          | V        |
| 5565.33                                                                            | -34.02        | 13.10    | 17.11 | -38.03        | -13.00         | -25.03          | V        |
| 7419.92                                                                            | -32.66        | 11.50    | 22.20 | -43.36        | -13.00         | -30.36          | V        |
| LTE Band 2 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle  |               |          |       |               |                |                 |          |
| Frequency(MHz)                                                                     | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 3760.08                                                                            | -34.71        | 12.60    | 12.93 | -35.04        | -13.00         | -22.04          | H        |
| 5639.92                                                                            | -35.46        | 13.10    | 17.11 | -39.47        | -13.00         | -26.47          | H        |
| 7520.18                                                                            | -32.23        | 11.50    | 22.20 | -42.93        | -13.00         | -29.93          | H        |
| 3760.08                                                                            | -34.98        | 12.60    | 12.93 | -35.31        | -13.00         | -22.31          | V        |
| 5639.92                                                                            | -33.92        | 13.10    | 17.11 | -37.93        | -13.00         | -24.93          | V        |
| 7520.18                                                                            | -32.93        | 11.50    | 22.20 | -43.63        | -13.00         | -30.63          | V        |
| LTE Band 2 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest |               |          |       |               |                |                 |          |
| Frequency(MHz)                                                                     | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 3810.32                                                                            | -34.45        | 12.60    | 12.93 | -34.78        | -13.00         | -21.78          | H        |
| 5714.62                                                                            | -34.92        | 13.10    | 17.11 | -38.93        | -13.00         | -25.93          | H        |
| 7619.92                                                                            | -33.29        | 11.50    | 22.20 | -43.99        | -13.00         | -30.99          | H        |
| 3810.32                                                                            | -35.60        | 12.60    | 12.93 | -35.93        | -13.00         | -22.93          | V        |
| 5714.62                                                                            | -34.38        | 13.10    | 17.11 | -38.39        | -13.00         | -25.39          | V        |
| 7619.92                                                                            | -32.41        | 11.50    | 22.20 | -43.11        | -13.00         | -30.11          | V        |



| LTE Band 2 / 15MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest  |               |          |       |               |                |                 |          |
|------------------------------------------------------------------------------------|---------------|----------|-------|---------------|----------------|-----------------|----------|
| Frequency(MHz)                                                                     | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 3714.80                                                                            | -33.79        | 12.60    | 12.93 | -34.12        | -13.00         | -21.12          | H        |
| 5572.39                                                                            | -35.35        | 13.10    | 17.11 | -39.36        | -13.00         | -26.36          | H        |
| 7430.61                                                                            | -33.26        | 11.50    | 22.20 | -43.96        | -13.00         | -30.96          | H        |
| 3714.80                                                                            | -35.35        | 12.60    | 12.93 | -35.68        | -13.00         | -22.68          | V        |
| 5572.39                                                                            | -34.57        | 13.10    | 17.11 | -38.58        | -13.00         | -25.58          | V        |
| 7430.61                                                                            | -31.91        | 11.50    | 22.20 | -42.61        | -13.00         | -29.61          | V        |
| LTE Band 2 / 15MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle  |               |          |       |               |                |                 |          |
| Frequency(MHz)                                                                     | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 3760.19                                                                            | -33.79        | 12.60    | 12.93 | -34.12        | -13.00         | -21.12          | H        |
| 5639.92                                                                            | -34.94        | 13.10    | 17.11 | -38.95        | -13.00         | -25.95          | H        |
| 7520.13                                                                            | -33.04        | 11.50    | 22.20 | -43.74        | -13.00         | -30.74          | H        |
| 3760.19                                                                            | -35.93        | 12.60    | 12.93 | -36.26        | -13.00         | -23.26          | V        |
| 5639.92                                                                            | -34.30        | 13.10    | 17.11 | -38.31        | -13.00         | -25.31          | V        |
| 7520.13                                                                            | -32.93        | 11.50    | 22.20 | -43.63        | -13.00         | -30.63          | V        |
| LTE Band 2 / 15MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest |               |          |       |               |                |                 |          |
| Frequency(MHz)                                                                     | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 3805.06                                                                            | -33.67        | 12.60    | 12.93 | -34.00        | -13.00         | -21.00          | H        |
| 5707.61                                                                            | -35.19        | 13.10    | 17.11 | -39.20        | -13.00         | -26.20          | H        |
| 7610.04                                                                            | -32.66        | 11.50    | 22.20 | -43.36        | -13.00         | -30.36          | H        |
| 3805.06                                                                            | -34.97        | 12.60    | 12.93 | -35.30        | -13.00         | -22.30          | V        |
| 5707.61                                                                            | -34.73        | 13.10    | 17.11 | -38.74        | -13.00         | -25.74          | V        |
| 7610.04                                                                            | -31.87        | 11.50    | 22.20 | -42.57        | -13.00         | -29.57          | V        |



| LTE Band 2 / 20MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest  |               |          |       |               |                |                 |          |
|------------------------------------------------------------------------------------|---------------|----------|-------|---------------|----------------|-----------------|----------|
| Frequency(MHz)                                                                     | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 3720.36                                                                            | -33.75        | 12.60    | 12.93 | -34.08        | -13.00         | -21.08          | H        |
| 5580.49                                                                            | -34.11        | 13.10    | 17.11 | -38.12        | -13.00         | -25.12          | H        |
| 7439.85                                                                            | -32.44        | 11.50    | 22.20 | -43.14        | -13.00         | -30.14          | H        |
| 3720.36                                                                            | -35.32        | 12.60    | 12.93 | -35.65        | -13.00         | -22.65          | V        |
| 5580.49                                                                            | -33.93        | 13.10    | 17.11 | -37.94        | -13.00         | -24.94          | V        |
| 7439.85                                                                            | -31.88        | 11.50    | 22.20 | -42.58        | -13.00         | -29.58          | V        |
| LTE Band 2 / 20MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle  |               |          |       |               |                |                 |          |
| Frequency(MHz)                                                                     | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 3759.90                                                                            | -33.75        | 12.60    | 12.93 | -34.08        | -13.00         | -21.08          | H        |
| 5640.14                                                                            | -34.03        | 13.10    | 17.11 | -38.04        | -13.00         | -25.04          | H        |
| 7520.14                                                                            | -32.89        | 11.50    | 22.20 | -43.59        | -13.00         | -30.59          | H        |
| 3759.90                                                                            | -35.08        | 12.60    | 12.93 | -35.41        | -13.00         | -22.41          | V        |
| 5640.14                                                                            | -35.14        | 13.10    | 17.11 | -39.15        | -13.00         | -26.15          | V        |
| 7520.14                                                                            | -32.83        | 11.50    | 22.20 | -43.53        | -13.00         | -30.53          | V        |
| LTE Band 2 / 20MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest |               |          |       |               |                |                 |          |
| Frequency(MHz)                                                                     | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 3800.04                                                                            | -33.57        | 12.60    | 12.93 | -33.90        | -13.00         | -20.90          | H        |
| 5700.02                                                                            | -34.80        | 13.10    | 17.11 | -38.81        | -13.00         | -25.81          | H        |
| 7599.99                                                                            | -32.84        | 11.50    | 22.20 | -43.54        | -13.00         | -30.54          | H        |
| 3800.04                                                                            | -34.75        | 12.60    | 12.93 | -35.08        | -13.00         | -22.08          | V        |
| 5700.02                                                                            | -34.53        | 13.10    | 17.11 | -38.54        | -13.00         | -25.54          | V        |
| 7599.99                                                                            | -32.58        | 11.50    | 22.20 | -43.28        | -13.00         | -30.28          | V        |



| LTE Band 4 / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest  |               |          |       |               |                |                 |          |
|-------------------------------------------------------------------------------------|---------------|----------|-------|---------------|----------------|-----------------|----------|
| Frequency(MHz)                                                                      | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 3420.91                                                                             | -34.44        | 12.90    | 12.56 | -34.10        | -13.00         | -21.10          | H        |
| 5132.00                                                                             | -35.16        | 13.10    | 16.32 | -38.38        | -13.00         | -25.38          | H        |
| 6842.70                                                                             | -33.48        | 12.33    | 21.13 | -42.28        | -13.00         | -29.28          | H        |
| 3420.91                                                                             | -35.59        | 12.90    | 12.56 | -35.25        | -13.00         | -22.25          | V        |
| 5132.00                                                                             | -34.96        | 13.10    | 16.32 | -38.18        | -13.00         | -25.18          | V        |
| 6842.70                                                                             | -33.04        | 12.33    | 21.13 | -41.84        | -13.00         | -28.84          | V        |
| LTE Band 4 / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle  |               |          |       |               |                |                 |          |
| Frequency(MHz)                                                                      | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 3464.88                                                                             | -34.51        | 12.90    | 12.56 | -34.17        | -13.00         | -21.17          | H        |
| 5196.54                                                                             | -34.64        | 13.10    | 16.32 | -37.86        | -13.00         | -24.86          | H        |
| 6930.01                                                                             | -32.35        | 12.33    | 21.13 | -41.15        | -13.00         | -28.15          | H        |
| 3464.88                                                                             | -35.34        | 12.90    | 12.56 | -35.00        | -13.00         | -22.00          | V        |
| 5196.54                                                                             | -34.86        | 13.10    | 16.32 | -38.08        | -13.00         | -25.08          | V        |
| 6930.01                                                                             | -31.92        | 12.33    | 21.13 | -40.72        | -13.00         | -27.72          | V        |
| LTE Band 4 / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest |               |          |       |               |                |                 |          |
| Frequency(MHz)                                                                      | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 3508.35                                                                             | -34.08        | 12.90    | 12.56 | -33.74        | -13.00         | -20.74          | H        |
| 5262.18                                                                             | -34.18        | 13.10    | 16.32 | -37.40        | -13.00         | -24.40          | H        |
| 7015.57                                                                             | -33.42        | 12.33    | 21.13 | -42.22        | -13.00         | -29.22          | H        |
| 3508.35                                                                             | -34.99        | 12.90    | 12.56 | -34.65        | -13.00         | -21.65          | V        |
| 5262.18                                                                             | -34.18        | 13.10    | 16.32 | -37.40        | -13.00         | -24.40          | V        |
| 7015.57                                                                             | -32.54        | 12.33    | 21.13 | -41.34        | -13.00         | -28.34          | V        |



| LTE Band 4 / 3MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest  |               |          |       |               |                |                 |          |
|-----------------------------------------------------------------------------------|---------------|----------|-------|---------------|----------------|-----------------|----------|
| Frequency(MHz)                                                                    | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 3424.02                                                                           | -33.49        | 12.90    | 12.56 | -33.15        | -13.00         | -20.15          | H        |
| 5135.86                                                                           | -34.64        | 13.10    | 16.32 | -37.86        | -13.00         | -24.86          | H        |
| 6848.69                                                                           | -33.50        | 12.33    | 21.13 | -42.30        | -13.00         | -29.30          | H        |
| 3424.02                                                                           | -35.61        | 12.90    | 12.56 | -35.27        | -13.00         | -22.27          | V        |
| 5135.86                                                                           | -34.57        | 13.10    | 16.32 | -37.79        | -13.00         | -24.79          | V        |
| 6848.69                                                                           | -32.72        | 12.33    | 21.13 | -41.52        | -13.00         | -28.52          | V        |
| LTE Band 4 / 3MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle  |               |          |       |               |                |                 |          |
| Frequency(MHz)                                                                    | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 3464.90                                                                           | -34.39        | 12.90    | 12.56 | -34.05        | -13.00         | -21.05          | H        |
| 5196.67                                                                           | -34.62        | 13.10    | 16.32 | -37.84        | -13.00         | -24.84          | H        |
| 6930.02                                                                           | -32.28        | 12.33    | 21.13 | -41.08        | -13.00         | -28.08          | H        |
| 3464.90                                                                           | -35.60        | 12.90    | 12.56 | -35.26        | -13.00         | -22.26          | V        |
| 5196.67                                                                           | -34.51        | 13.10    | 16.32 | -37.73        | -13.00         | -24.73          | V        |
| 6930.02                                                                           | -31.90        | 12.33    | 21.13 | -40.70        | -13.00         | -27.70          | V        |
| LTE Band 4 / 3MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest |               |          |       |               |                |                 |          |
| Frequency(MHz)                                                                    | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 3506.20                                                                           | -34.04        | 12.90    | 12.56 | -33.70        | -13.00         | -20.70          | H        |
| 5261.76                                                                           | -34.91        | 13.10    | 16.32 | -38.13        | -13.00         | -25.13          | H        |
| 7012.75                                                                           | -33.33        | 12.33    | 21.13 | -42.13        | -13.00         | -29.13          | H        |
| 3506.20                                                                           | -35.24        | 12.90    | 12.56 | -34.90        | -13.00         | -21.90          | V        |
| 5261.76                                                                           | -34.57        | 13.10    | 16.32 | -37.79        | -13.00         | -24.79          | V        |
| 7012.75                                                                           | -32.32        | 12.33    | 21.13 | -41.12        | -13.00         | -28.12          | V        |



| LTE Band 4 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest  |               |          |       |        |        |        |          |
|-----------------------------------------------------------------------------------|---------------|----------|-------|--------|--------|--------|----------|
| Frequency(MHz)                                                                    | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea   | Limit  | Margin | Polarity |
|                                                                                   |               |          |       | (dBm)  | (dBm)  | (dBm)  |          |
| 3424.79                                                                           | -34.66        | 12.90    | 12.56 | -34.32 | -13.00 | -21.32 | H        |
| 5137.00                                                                           | -34.93        | 13.10    | 16.32 | -38.15 | -13.00 | -25.15 | H        |
| 6849.93                                                                           | -32.16        | 12.33    | 21.13 | -40.96 | -13.00 | -27.96 | H        |
| 3424.79                                                                           | -34.68        | 12.90    | 12.56 | -34.34 | -13.00 | -21.34 | V        |
| 5137.00                                                                           | -35.15        | 13.10    | 16.32 | -38.37 | -13.00 | -25.37 | V        |
| 6849.93                                                                           | -33.16        | 12.33    | 21.13 | -41.96 | -13.00 | -28.96 | V        |
| LTE Band 4 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle  |               |          |       |        |        |        |          |
| Frequency(MHz)                                                                    | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea   | Limit  | Margin | Polarity |
|                                                                                   |               |          |       | (dBm)  | (dBm)  | (dBm)  |          |
| 3464.47                                                                           | -34.87        | 12.90    | 12.56 | -34.53 | -13.00 | -21.53 | H        |
| 5196.89                                                                           | -34.27        | 13.10    | 16.32 | -37.49 | -13.00 | -24.49 | H        |
| 6929.93                                                                           | -33.01        | 12.33    | 21.13 | -41.81 | -13.00 | -28.81 | H        |
| 3464.47                                                                           | -35.18        | 12.90    | 12.56 | -34.84 | -13.00 | -21.84 | V        |
| 5196.89                                                                           | -35.21        | 13.10    | 16.32 | -38.43 | -13.00 | -25.43 | V        |
| 6929.93                                                                           | -32.00        | 12.33    | 21.13 | -40.80 | -13.00 | -27.80 | V        |
| LTE Band 4 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest |               |          |       |        |        |        |          |
| Frequency(MHz)                                                                    | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea   | Limit  | Margin | Polarity |
|                                                                                   |               |          |       | (dBm)  | (dBm)  | (dBm)  |          |
| 3505.15                                                                           | -33.69        | 12.90    | 12.56 | -33.35 | -13.00 | -20.35 | H        |
| 5257.12                                                                           | -34.39        | 13.10    | 16.32 | -37.61 | -13.00 | -24.61 | H        |
| 7009.85                                                                           | -33.03        | 12.33    | 21.13 | -41.83 | -13.00 | -28.83 | H        |
| 3505.15                                                                           | -34.78        | 12.90    | 12.56 | -34.44 | -13.00 | -21.44 | V        |
| 5257.12                                                                           | -34.96        | 13.10    | 16.32 | -38.18 | -13.00 | -25.18 | V        |
| 7009.85                                                                           | -32.67        | 12.33    | 21.13 | -41.47 | -13.00 | -28.47 | V        |



| LTE Band 4 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest  |               |          |       |               |                |                 |          |
|------------------------------------------------------------------------------------|---------------|----------|-------|---------------|----------------|-----------------|----------|
| Frequency(MHz)                                                                     | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 3429.94                                                                            | -34.66        | 12.90    | 12.56 | -34.32        | -13.00         | -21.32          | H        |
| 5145.18                                                                            | -34.82        | 13.10    | 16.32 | -38.04        | -13.00         | -25.04          | H        |
| 6860.44                                                                            | -33.35        | 12.33    | 21.13 | -42.15        | -13.00         | -29.15          | H        |
| 3429.94                                                                            | -35.79        | 12.90    | 12.56 | -35.45        | -13.00         | -22.45          | V        |
| 5145.18                                                                            | -35.20        | 13.10    | 16.32 | -38.42        | -13.00         | -25.42          | V        |
| 6860.44                                                                            | -32.56        | 12.33    | 21.13 | -41.36        | -13.00         | -28.36          | V        |
| LTE Band 4 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle  |               |          |       |               |                |                 |          |
| Frequency(MHz)                                                                     | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 3464.71                                                                            | -34.54        | 12.90    | 12.56 | -34.20        | -13.00         | -21.20          | H        |
| 5196.40                                                                            | -34.82        | 13.10    | 16.32 | -38.04        | -13.00         | -25.04          | H        |
| 6929.46                                                                            | -32.18        | 12.33    | 21.13 | -40.98        | -13.00         | -27.98          | H        |
| 3464.71                                                                            | -35.77        | 12.90    | 12.56 | -35.43        | -13.00         | -22.43          | V        |
| 5196.40                                                                            | -34.72        | 13.10    | 16.32 | -37.94        | -13.00         | -24.94          | V        |
| 6929.46                                                                            | -33.01        | 12.33    | 21.13 | -41.81        | -13.00         | -28.81          | V        |
| LTE Band 4 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest |               |          |       |               |                |                 |          |
| Frequency(MHz)                                                                     | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 3500.08                                                                            | -34.05        | 12.90    | 12.56 | -33.71        | -13.00         | -20.71          | H        |
| 5250.07                                                                            | -34.88        | 13.10    | 16.32 | -38.10        | -13.00         | -25.10          | H        |
| 6999.83                                                                            | -32.42        | 12.33    | 21.13 | -41.22        | -13.00         | -28.22          | H        |
| 3500.08                                                                            | -34.74        | 12.90    | 12.56 | -34.40        | -13.00         | -21.40          | V        |
| 5250.07                                                                            | -34.28        | 13.10    | 16.32 | -37.50        | -13.00         | -24.50          | V        |
| 6999.83                                                                            | -32.21        | 12.33    | 21.13 | -41.01        | -13.00         | -28.01          | V        |



| LTE Band 4 / 15MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest  |               |          |       |               |                |                 |          |
|------------------------------------------------------------------------------------|---------------|----------|-------|---------------|----------------|-----------------|----------|
| Frequency(MHz)                                                                     | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 3434.66                                                                            | -34.32        | 12.90    | 12.56 | -33.98        | -13.00         | -20.98          | H        |
| 5152.18                                                                            | -34.69        | 13.10    | 16.32 | -37.91        | -13.00         | -24.91          | H        |
| 6870.28                                                                            | -32.65        | 12.33    | 21.13 | -41.45        | -13.00         | -28.45          | H        |
| 3434.66                                                                            | -34.78        | 12.90    | 12.56 | -34.44        | -13.00         | -21.44          | V        |
| 5152.18                                                                            | -34.28        | 13.10    | 16.32 | -37.50        | -13.00         | -24.50          | V        |
| 6870.28                                                                            | -32.18        | 12.33    | 21.13 | -40.98        | -13.00         | -27.98          | V        |
| LTE Band 4 / 15MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle  |               |          |       |               |                |                 |          |
| Frequency(MHz)                                                                     | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 3465.03                                                                            | -34.57        | 12.90    | 12.56 | -34.23        | -13.00         | -21.23          | H        |
| 5196.57                                                                            | -35.33        | 13.10    | 16.32 | -38.55        | -13.00         | -25.55          | H        |
| 6930.08                                                                            | -33.30        | 12.33    | 21.13 | -42.10        | -13.00         | -29.10          | H        |
| 3465.03                                                                            | -35.28        | 12.90    | 12.56 | -34.94        | -13.00         | -21.94          | V        |
| 5196.57                                                                            | -34.99        | 13.10    | 16.32 | -38.21        | -13.00         | -25.21          | V        |
| 6930.08                                                                            | -31.97        | 12.33    | 21.13 | -40.77        | -13.00         | -27.77          | V        |
| LTE Band 4 / 15MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest |               |          |       |               |                |                 |          |
| Frequency(MHz)                                                                     | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 3495.09                                                                            | -34.49        | 12.90    | 12.56 | -34.15        | -13.00         | -21.15          | H        |
| 5242.22                                                                            | -34.77        | 13.10    | 16.32 | -37.99        | -13.00         | -24.99          | H        |
| 6990.25                                                                            | -32.47        | 12.33    | 21.13 | -41.27        | -13.00         | -28.27          | H        |
| 3495.09                                                                            | -35.29        | 12.90    | 12.56 | -34.95        | -13.00         | -21.95          | V        |
| 5242.22                                                                            | -34.70        | 13.10    | 16.32 | -37.92        | -13.00         | -24.92          | V        |
| 6990.25                                                                            | -32.67        | 12.33    | 21.13 | -41.47        | -13.00         | -28.47          | V        |



| LTE Band 4 / 20MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest  |               |          |       |               |                |                 |          |
|------------------------------------------------------------------------------------|---------------|----------|-------|---------------|----------------|-----------------|----------|
| Frequency(MHz)                                                                     | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 3440.17                                                                            | -34.38        | 12.90    | 12.56 | -34.04        | -13.00         | -21.04          | H        |
| 5159.93                                                                            | -34.88        | 13.10    | 16.32 | -38.10        | -13.00         | -25.10          | H        |
| 6880.51                                                                            | -32.80        | 12.33    | 21.13 | -41.60        | -13.00         | -28.60          | H        |
| 3440.17                                                                            | -34.91        | 12.90    | 12.56 | -34.57        | -13.00         | -21.57          | V        |
| 5159.93                                                                            | -34.43        | 13.10    | 16.32 | -37.65        | -13.00         | -24.65          | V        |
| 6880.51                                                                            | -32.51        | 12.33    | 21.13 | -41.31        | -13.00         | -28.31          | V        |
| LTE Band 4 / 20MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle  |               |          |       |               |                |                 |          |
| Frequency(MHz)                                                                     | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 3464.73                                                                            | -34.19        | 12.90    | 12.56 | -33.85        | -13.00         | -20.85          | H        |
| 5196.35                                                                            | -34.24        | 13.10    | 16.32 | -37.46        | -13.00         | -24.46          | H        |
| 6929.74                                                                            | -32.31        | 12.33    | 21.13 | -41.11        | -13.00         | -28.11          | H        |
| 3464.73                                                                            | -35.81        | 12.90    | 12.56 | -35.47        | -13.00         | -22.47          | V        |
| 5196.35                                                                            | -34.94        | 13.10    | 16.32 | -38.16        | -13.00         | -25.16          | V        |
| 6929.74                                                                            | -32.27        | 12.33    | 21.13 | -41.07        | -13.00         | -28.07          | V        |
| LTE Band 4 / 20MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest |               |          |       |               |                |                 |          |
| Frequency(MHz)                                                                     | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 3490.41                                                                            | -34.41        | 12.90    | 12.56 | -34.07        | -13.00         | -21.07          | H        |
| 5234.95                                                                            | -34.63        | 13.10    | 16.32 | -37.85        | -13.00         | -24.85          | H        |
| 6979.63                                                                            | -32.78        | 12.33    | 21.13 | -41.58        | -13.00         | -28.58          | H        |
| 3490.41                                                                            | -35.66        | 12.90    | 12.56 | -35.32        | -13.00         | -22.32          | V        |
| 5234.95                                                                            | -34.51        | 13.10    | 16.32 | -37.73        | -13.00         | -24.73          | V        |
| 6979.63                                                                            | -32.63        | 12.33    | 21.13 | -41.43        | -13.00         | -28.43          | V        |



| LTE Band 5 / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest  |               |          |       |               |                |                 |          |
|-------------------------------------------------------------------------------------|---------------|----------|-------|---------------|----------------|-----------------|----------|
| Frequency(MHz)                                                                      | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 1648.77                                                                             | -34.12        | 9.56     | 9.72  | -34.28        | -13.00         | -21.28          | H        |
| 2473.72                                                                             | -34.76        | 10.50    | 10.86 | -35.12        | -13.00         | -22.12          | H        |
| 3298.40                                                                             | -32.75        | 12.78    | 11.57 | -31.54        | -13.00         | -18.54          | H        |
| 1648.77                                                                             | -35.70        | 9.56     | 9.72  | -35.86        | -13.00         | -22.86          | V        |
| 2473.72                                                                             | -34.61        | 10.50    | 10.86 | -34.97        | -13.00         | -21.97          | V        |
| 3298.40                                                                             | -31.99        | 12.78    | 11.57 | -30.78        | -13.00         | -17.78          | V        |
| LTE Band 5 / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle  |               |          |       |               |                |                 |          |
| Frequency(MHz)                                                                      | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 1672.68                                                                             | -34.18        | 9.56     | 9.72  | -34.34        | -13.00         | -21.34          | H        |
| 2509.33                                                                             | -34.09        | 10.50    | 10.86 | -34.45        | -13.00         | -21.45          | H        |
| 3345.74                                                                             | -33.16        | 12.78    | 11.57 | -31.95        | -13.00         | -18.95          | H        |
| 1672.68                                                                             | -35.08        | 9.56     | 9.72  | -35.24        | -13.00         | -22.24          | V        |
| 2509.33                                                                             | -33.78        | 10.50    | 10.86 | -34.14        | -13.00         | -21.14          | V        |
| 3345.74                                                                             | -32.86        | 12.78    | 11.57 | -31.65        | -13.00         | -18.65          | V        |
| LTE Band 5 / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest |               |          |       |               |                |                 |          |
| Frequency(MHz)                                                                      | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 1696.18                                                                             | -33.82        | 9.56     | 9.72  | -33.98        | -13.00         | -20.98          | H        |
| 2544.75                                                                             | -35.14        | 10.50    | 10.86 | -35.50        | -13.00         | -22.50          | H        |
| 3393.01                                                                             | -33.21        | 12.78    | 11.57 | -32.00        | -13.00         | -19.00          | H        |
| 1696.18                                                                             | -35.72        | 9.56     | 9.72  | -35.88        | -13.00         | -22.88          | V        |
| 2544.75                                                                             | -34.52        | 10.50    | 10.86 | -34.88        | -13.00         | -21.88          | V        |
| 3393.01                                                                             | -31.87        | 12.78    | 11.57 | -30.66        | -13.00         | -17.66          | V        |



| LTE Band 5 / 3MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest  |               |          |       |               |                |                 |          |
|-----------------------------------------------------------------------------------|---------------|----------|-------|---------------|----------------|-----------------|----------|
| Frequency(MHz)                                                                    | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 1650.32                                                                           | -33.75        | 9.56     | 9.72  | -33.91        | -13.00         | -20.91          | H        |
| 2475.85                                                                           | -35.03        | 10.50    | 10.86 | -35.39        | -13.00         | -22.39          | H        |
| 3301.42                                                                           | -32.73        | 12.78    | 11.57 | -31.52        | -13.00         | -18.52          | H        |
| 1650.32                                                                           | -35.16        | 9.56     | 9.72  | -35.32        | -13.00         | -22.32          | V        |
| 2475.85                                                                           | -34.07        | 10.50    | 10.86 | -34.43        | -13.00         | -21.43          | V        |
| 3301.42                                                                           | -32.94        | 12.78    | 11.57 | -31.73        | -13.00         | -18.73          | V        |
| LTE Band 5 / 3MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle  |               |          |       |               |                |                 |          |
| Frequency(MHz)                                                                    | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 1672.50                                                                           | -34.33        | 9.56     | 9.72  | -34.49        | -13.00         | -21.49          | H        |
| 2508.94                                                                           | -35.10        | 10.50    | 10.86 | -35.46        | -13.00         | -22.46          | H        |
| 3345.59                                                                           | -33.45        | 12.78    | 11.57 | -32.24        | -13.00         | -19.24          | H        |
| 1672.50                                                                           | -34.54        | 9.56     | 9.72  | -34.70        | -13.00         | -21.70          | V        |
| 2508.94                                                                           | -33.97        | 10.50    | 10.86 | -34.33        | -13.00         | -21.33          | V        |
| 3345.59                                                                           | -32.42        | 12.78    | 11.57 | -31.21        | -13.00         | -18.21          | V        |
| LTE Band 5 / 3MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest |               |          |       |               |                |                 |          |
| Frequency(MHz)                                                                    | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 1694.34                                                                           | -33.67        | 9.56     | 9.72  | -33.83        | -13.00         | -20.83          | H        |
| 2541.89                                                                           | -35.29        | 10.50    | 10.86 | -35.65        | -13.00         | -22.65          | H        |
| 3389.43                                                                           | -32.96        | 12.78    | 11.57 | -31.75        | -13.00         | -18.75          | H        |
| 1694.34                                                                           | -34.89        | 9.56     | 9.72  | -35.05        | -13.00         | -22.05          | V        |
| 2541.89                                                                           | -35.18        | 10.50    | 10.86 | -35.54        | -13.00         | -22.54          | V        |
| 3389.43                                                                           | -33.20        | 12.78    | 11.57 | -31.99        | -13.00         | -18.99          | V        |



| LTE Band 5 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest  |               |          |       |               |                |                 |          |
|-----------------------------------------------------------------------------------|---------------|----------|-------|---------------|----------------|-----------------|----------|
| Frequency(MHz)                                                                    | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 1652.58                                                                           | -34.81        | 9.56     | 9.72  | -34.97        | -13.00         | -21.97          | H        |
| 2478.52                                                                           | -35.01        | 10.50    | 10.86 | -35.37        | -13.00         | -22.37          | H        |
| 3305.47                                                                           | -33.30        | 12.78    | 11.57 | -32.09        | -13.00         | -19.09          | H        |
| 1652.58                                                                           | -35.67        | 9.56     | 9.72  | -35.83        | -13.00         | -22.83          | V        |
| 2478.52                                                                           | -34.74        | 10.50    | 10.86 | -35.10        | -13.00         | -22.10          | V        |
| 3305.47                                                                           | -32.57        | 12.78    | 11.57 | -31.36        | -13.00         | -18.36          | V        |
| LTE Band 5 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle  |               |          |       |               |                |                 |          |
| Frequency(MHz)                                                                    | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 1672.18                                                                           | -34.69        | 9.56     | 9.72  | -34.85        | -13.00         | -21.85          | H        |
| 2508.99                                                                           | -34.13        | 10.50    | 10.86 | -34.49        | -13.00         | -21.49          | H        |
| 3345.53                                                                           | -32.44        | 12.78    | 11.57 | -31.23        | -13.00         | -18.23          | H        |
| 1672.18                                                                           | -34.95        | 9.56     | 9.72  | -35.11        | -13.00         | -22.11          | V        |
| 2508.99                                                                           | -35.16        | 10.50    | 10.86 | -35.52        | -13.00         | -22.52          | V        |
| 3345.53                                                                           | -32.03        | 12.78    | 11.57 | -30.82        | -13.00         | -17.82          | V        |
| LTE Band 5 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest |               |          |       |               |                |                 |          |
| Frequency(MHz)                                                                    | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 1692.10                                                                           | -34.56        | 9.56     | 9.72  | -34.72        | -13.00         | -21.72          | H        |
| 2538.77                                                                           | -35.40        | 10.50    | 10.86 | -35.76        | -13.00         | -22.76          | H        |
| 3385.82                                                                           | -33.00        | 12.78    | 11.57 | -31.79        | -13.00         | -18.79          | H        |
| 1692.10                                                                           | -35.52        | 9.56     | 9.72  | -35.68        | -13.00         | -22.68          | V        |
| 2538.77                                                                           | -34.95        | 10.50    | 10.86 | -35.31        | -13.00         | -22.31          | V        |
| 3385.82                                                                           | -32.70        | 12.78    | 11.57 | -31.49        | -13.00         | -18.49          | V        |



| LTE Band 5 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest  |               |          |       |               |                |                 |          |
|------------------------------------------------------------------------------------|---------------|----------|-------|---------------|----------------|-----------------|----------|
| Frequency(MHz)                                                                     | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 1657.94                                                                            | -34.82        | 9.56     | 9.72  | -34.98        | -13.00         | -21.98          | H        |
| 2486.45                                                                            | -34.67        | 10.50    | 10.86 | -35.03        | -13.00         | -22.03          | H        |
| 3315.39                                                                            | -33.20        | 12.78    | 11.57 | -31.99        | -13.00         | -18.99          | H        |
| 1657.94                                                                            | -34.87        | 9.56     | 9.72  | -35.03        | -13.00         | -22.03          | V        |
| 2486.45                                                                            | -34.25        | 10.50    | 10.86 | -34.61        | -13.00         | -21.61          | V        |
| 3315.39                                                                            | -32.23        | 12.78    | 11.57 | -31.02        | -13.00         | -18.02          | V        |
| LTE Band 5 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle  |               |          |       |               |                |                 |          |
| Frequency(MHz)                                                                     | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 1672.17                                                                            | -34.06        | 9.56     | 9.72  | -34.22        | -13.00         | -21.22          | H        |
| 2508.83                                                                            | -34.02        | 10.50    | 10.86 | -34.38        | -13.00         | -21.38          | H        |
| 3345.23                                                                            | -32.24        | 12.78    | 11.57 | -31.03        | -13.00         | -18.03          | H        |
| 1672.17                                                                            | -35.55        | 9.56     | 9.72  | -35.71        | -13.00         | -22.71          | V        |
| 2508.83                                                                            | -35.24        | 10.50    | 10.86 | -35.60        | -13.00         | -22.60          | V        |
| 3345.23                                                                            | -31.78        | 12.78    | 11.57 | -30.57        | -13.00         | -17.57          | V        |
| LTE Band 5 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest |               |          |       |               |                |                 |          |
| Frequency(MHz)                                                                     | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 1687.46                                                                            | -34.81        | 9.56     | 9.72  | -34.97        | -13.00         | -21.97          | H        |
| 2531.58                                                                            | -34.47        | 10.50    | 10.86 | -34.83        | -13.00         | -21.83          | H        |
| 3375.74                                                                            | -33.33        | 12.78    | 11.57 | -32.12        | -13.00         | -19.12          | H        |
| 1687.46                                                                            | -35.49        | 9.56     | 9.72  | -35.65        | -13.00         | -22.65          | V        |
| 2531.58                                                                            | -34.94        | 10.50    | 10.86 | -35.30        | -13.00         | -22.30          | V        |
| 3375.74                                                                            | -32.66        | 12.78    | 11.57 | -31.45        | -13.00         | -18.45          | V        |



| LTE Band 12 / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest  |               |          |       |               |                |                 |          |
|--------------------------------------------------------------------------------------|---------------|----------|-------|---------------|----------------|-----------------|----------|
| Frequency(MHz)                                                                       | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 1399.33                                                                              | -34.82        | 8.17     | 9.34  | -35.99        | -13.00         | -22.99          | H        |
| 2099.08                                                                              | -35.39        | 9.53     | 10.42 | -36.28        | -13.00         | -23.28          | H        |
| 2798.43                                                                              | -33.30        | 11.27    | 11.12 | -33.15        | -13.00         | -20.15          | H        |
| 1399.33                                                                              | -34.74        | 8.17     | 9.34  | -35.91        | -13.00         | -22.91          | V        |
| 2099.08                                                                              | -34.31        | 9.53     | 10.42 | -35.20        | -13.00         | -22.20          | V        |
| 2798.43                                                                              | -31.91        | 11.27    | 11.12 | -31.76        | -13.00         | -18.76          | V        |
| LTE Band 12 / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle  |               |          |       |               |                |                 |          |
| Frequency(MHz)                                                                       | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 1414.52                                                                              | -34.68        | 8.17     | 9.34  | -35.85        | -13.00         | -22.85          | H        |
| 2122.02                                                                              | -35.22        | 9.53     | 10.42 | -36.11        | -13.00         | -23.11          | H        |
| 2829.59                                                                              | -33.59        | 11.27    | 11.12 | -33.44        | -13.00         | -20.44          | H        |
| 1414.52                                                                              | -35.32        | 8.17     | 9.34  | -36.49        | -13.00         | -23.49          | V        |
| 2122.02                                                                              | -33.76        | 9.53     | 10.42 | -34.65        | -13.00         | -21.65          | V        |
| 2829.59                                                                              | -32.46        | 11.27    | 11.12 | -32.31        | -13.00         | -19.31          | V        |
| LTE Band 12 / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest |               |          |       |               |                |                 |          |
| Frequency(MHz)                                                                       | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 1430.54                                                                              | -34.19        | 8.17     | 9.34  | -35.36        | -13.00         | -22.36          | H        |
| 2145.47                                                                              | -34.41        | 9.53     | 10.42 | -35.30        | -13.00         | -22.30          | H        |
| 2861.16                                                                              | -33.42        | 11.27    | 11.12 | -33.27        | -13.00         | -20.27          | H        |
| 1430.54                                                                              | -34.99        | 8.17     | 9.34  | -36.16        | -13.00         | -23.16          | V        |
| 2145.47                                                                              | -34.99        | 9.53     | 10.42 | -35.88        | -13.00         | -22.88          | V        |
| 2861.16                                                                              | -31.87        | 11.27    | 11.12 | -31.72        | -13.00         | -18.72          | V        |



| LTE Band 12 / 3MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest  |               |          |       |               |                |                 |          |
|------------------------------------------------------------------------------------|---------------|----------|-------|---------------|----------------|-----------------|----------|
| Frequency(MHz)                                                                     | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 1400.61                                                                            | -34.35        | 8.17     | 9.34  | -35.52        | -13.00         | -22.52          | H        |
| 2101.48                                                                            | -34.59        | 9.53     | 10.42 | -35.48        | -13.00         | -22.48          | H        |
| 2801.68                                                                            | -32.98        | 11.27    | 11.12 | -32.83        | -13.00         | -19.83          | H        |
| 1400.61                                                                            | -34.92        | 8.17     | 9.34  | -36.09        | -13.00         | -23.09          | V        |
| 2101.48                                                                            | -33.85        | 9.53     | 10.42 | -34.74        | -13.00         | -21.74          | V        |
| 2801.68                                                                            | -32.38        | 11.27    | 11.12 | -32.23        | -13.00         | -19.23          | V        |
| LTE Band 12 / 3MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle  |               |          |       |               |                |                 |          |
| Frequency(MHz)                                                                     | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 1414.62                                                                            | -33.97        | 8.17     | 9.34  | -35.14        | -13.00         | -22.14          | H        |
| 2122.06                                                                            | -34.90        | 9.53     | 10.42 | -35.79        | -13.00         | -22.79          | H        |
| 2829.97                                                                            | -33.15        | 11.27    | 11.12 | -33.00        | -13.00         | -20.00          | H        |
| 1414.62                                                                            | -35.18        | 8.17     | 9.34  | -36.35        | -13.00         | -23.35          | V        |
| 2122.06                                                                            | -35.10        | 9.53     | 10.42 | -35.99        | -13.00         | -22.99          | V        |
| 2829.97                                                                            | -31.95        | 11.27    | 11.12 | -31.80        | -13.00         | -18.80          | V        |
| LTE Band 12 / 3MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest |               |          |       |               |                |                 |          |
| Frequency(MHz)                                                                     | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 1428.77                                                                            | -33.62        | 8.17     | 9.34  | -34.79        | -13.00         | -21.79          | H        |
| 2143.31                                                                            | -35.35        | 9.53     | 10.42 | -36.24        | -13.00         | -23.24          | H        |
| 2857.74                                                                            | -32.68        | 11.27    | 11.12 | -32.53        | -13.00         | -19.53          | H        |
| 1428.77                                                                            | -35.97        | 8.17     | 9.34  | -37.14        | -13.00         | -24.14          | V        |
| 2143.31                                                                            | -34.06        | 9.53     | 10.42 | -34.95        | -13.00         | -21.95          | V        |
| 2857.74                                                                            | -33.21        | 11.27    | 11.12 | -33.06        | -13.00         | -20.06          | V        |



| LTE Band 12 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest  |               |          |       |               |                |                 |          |
|------------------------------------------------------------------------------------|---------------|----------|-------|---------------|----------------|-----------------|----------|
| Frequency(MHz)                                                                     | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 1402.51                                                                            | -34.00        | 8.17     | 9.34  | -35.17        | -13.00         | -22.17          | H        |
| 2104.40                                                                            | -34.45        | 9.53     | 10.42 | -35.34        | -13.00         | -22.34          | H        |
| 2805.56                                                                            | -32.59        | 11.27    | 11.12 | -32.44        | -13.00         | -19.44          | H        |
| 1402.51                                                                            | -34.53        | 8.17     | 9.34  | -35.70        | -13.00         | -22.70          | V        |
| 2104.40                                                                            | -34.19        | 9.53     | 10.42 | -35.08        | -13.00         | -22.08          | V        |
| 2805.56                                                                            | -32.79        | 11.27    | 11.12 | -32.64        | -13.00         | -19.64          | V        |
| LTE Band 12 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle  |               |          |       |               |                |                 |          |
| Frequency(MHz)                                                                     | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 1414.52                                                                            | -34.37        | 8.17     | 9.34  | -35.54        | -13.00         | -22.54          | H        |
| 2122.40                                                                            | -35.20        | 9.53     | 10.42 | -36.09        | -13.00         | -23.09          | H        |
| 2829.80                                                                            | -33.47        | 11.27    | 11.12 | -33.32        | -13.00         | -20.32          | H        |
| 1414.52                                                                            | -35.34        | 8.17     | 9.34  | -36.51        | -13.00         | -23.51          | V        |
| 2122.40                                                                            | -34.62        | 9.53     | 10.42 | -35.51        | -13.00         | -22.51          | V        |
| 2829.80                                                                            | -33.08        | 11.27    | 11.12 | -32.93        | -13.00         | -19.93          | V        |
| LTE Band 12 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest |               |          |       |               |                |                 |          |
| Frequency(MHz)                                                                     | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 1426.94                                                                            | -33.82        | 8.17     | 9.34  | -34.99        | -13.00         | -21.99          | H        |
| 2140.17                                                                            | -34.99        | 9.53     | 10.42 | -35.88        | -13.00         | -22.88          | H        |
| 2853.63                                                                            | -32.22        | 11.27    | 11.12 | -32.07        | -13.00         | -19.07          | H        |
| 1426.94                                                                            | -35.97        | 8.17     | 9.34  | -37.14        | -13.00         | -24.14          | V        |
| 2140.17                                                                            | -35.25        | 9.53     | 10.42 | -36.14        | -13.00         | -23.14          | V        |
| 2853.63                                                                            | -32.74        | 11.27    | 11.12 | -32.59        | -13.00         | -19.59          | V        |



| LTE Band 12 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest  |               |          |       |               |                |                 |          |
|-------------------------------------------------------------------------------------|---------------|----------|-------|---------------|----------------|-----------------|----------|
| Frequency(MHz)                                                                      | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 1407.93                                                                             | -34.85        | 8.17     | 9.34  | -36.02        | -13.00         | -23.02          | H        |
| 2111.60                                                                             | -34.50        | 9.53     | 10.42 | -35.39        | -13.00         | -22.39          | H        |
| 2815.70                                                                             | -32.17        | 11.27    | 11.12 | -32.02        | -13.00         | -19.02          | H        |
| 1407.93                                                                             | -35.46        | 8.17     | 9.34  | -36.63        | -13.00         | -23.63          | V        |
| 2111.60                                                                             | -34.07        | 9.53     | 10.42 | -34.96        | -13.00         | -21.96          | V        |
| 2815.70                                                                             | -32.87        | 11.27    | 11.12 | -32.72        | -13.00         | -19.72          | V        |
| LTE Band 12 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle  |               |          |       |               |                |                 |          |
| Frequency(MHz)                                                                      | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 1414.51                                                                             | -33.80        | 8.17     | 9.34  | -34.97        | -13.00         | -21.97          | H        |
| 2122.11                                                                             | -34.47        | 9.53     | 10.42 | -35.36        | -13.00         | -22.36          | H        |
| 2829.72                                                                             | -33.58        | 11.27    | 11.12 | -33.43        | -13.00         | -20.43          | H        |
| 1414.51                                                                             | -34.87        | 8.17     | 9.34  | -36.04        | -13.00         | -23.04          | V        |
| 2122.11                                                                             | -34.74        | 9.53     | 10.42 | -35.63        | -13.00         | -22.63          | V        |
| 2829.72                                                                             | -32.24        | 11.27    | 11.12 | -32.09        | -13.00         | -19.09          | V        |
| LTE Band 12 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest |               |          |       |               |                |                 |          |
| Frequency(MHz)                                                                      | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 1421.64                                                                             | -34.56        | 8.17     | 9.34  | -35.73        | -13.00         | -22.73          | H        |
| 2132.89                                                                             | -35.29        | 9.53     | 10.42 | -36.18        | -13.00         | -23.18          | H        |
| 2843.79                                                                             | -32.41        | 11.27    | 11.12 | -32.26        | -13.00         | -19.26          | H        |
| 1421.64                                                                             | -35.06        | 8.17     | 9.34  | -36.23        | -13.00         | -23.23          | V        |
| 2132.89                                                                             | -33.89        | 9.53     | 10.42 | -34.78        | -13.00         | -21.78          | V        |
| 2843.79                                                                             | -31.85        | 11.27    | 11.12 | -31.70        | -13.00         | -18.70          | V        |



| LTE Band 66 / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest  |               |          |       |               |                |                 |          |
|--------------------------------------------------------------------------------------|---------------|----------|-------|---------------|----------------|-----------------|----------|
| Frequency(MHz)                                                                       | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 3421.19                                                                              | -34.88        | 12.90    | 12.56 | -34.54        | -13.00         | -21.54          | H        |
| 5131.86                                                                              | -34.54        | 13.10    | 16.32 | -37.76        | -13.00         | -24.76          | H        |
| 6842.49                                                                              | -32.15        | 12.33    | 21.13 | -40.95        | -13.00         | -27.95          | H        |
| 3421.19                                                                              | -35.25        | 12.90    | 12.56 | -34.91        | -13.00         | -21.91          | V        |
| 5131.86                                                                              | -35.23        | 13.10    | 16.32 | -38.45        | -13.00         | -25.45          | V        |
| 6842.49                                                                              | -32.69        | 12.33    | 21.13 | -41.49        | -13.00         | -28.49          | V        |
| LTE Band 66 / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle  |               |          |       |               |                |                 |          |
| Frequency(MHz)                                                                       | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 3490.22                                                                              | -34.78        | 12.90    | 12.56 | -34.44        | -13.00         | -21.44          | H        |
| 5234.86                                                                              | -34.02        | 13.10    | 16.32 | -37.24        | -13.00         | -24.24          | H        |
| 6979.88                                                                              | -32.62        | 12.33    | 21.13 | -41.42        | -13.00         | -28.42          | H        |
| 3490.22                                                                              | -34.94        | 12.90    | 12.56 | -34.60        | -13.00         | -21.60          | V        |
| 5234.86                                                                              | -34.13        | 13.10    | 16.32 | -37.35        | -13.00         | -24.35          | V        |
| 6979.88                                                                              | -32.71        | 12.33    | 21.13 | -41.51        | -13.00         | -28.51          | V        |
| LTE Band 66 / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest |               |          |       |               |                |                 |          |
| Frequency(MHz)                                                                       | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 3557.99                                                                              | -34.03        | 12.90    | 12.56 | -33.69        | -13.00         | -20.69          | H        |
| 5336.97                                                                              | -35.18        | 13.10    | 16.32 | -38.40        | -13.00         | -25.40          | H        |
| 7117.11                                                                              | -33.32        | 12.33    | 21.13 | -42.12        | -13.00         | -29.12          | H        |
| 3557.99                                                                              | -35.40        | 12.90    | 12.56 | -35.06        | -13.00         | -22.06          | V        |
| 5336.97                                                                              | -33.96        | 13.10    | 16.32 | -37.18        | -13.00         | -24.18          | V        |
| 7117.11                                                                              | -32.80        | 12.33    | 21.13 | -41.60        | -13.00         | -28.60          | V        |



| LTE Band 66 / 3MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest  |               |          |       |               |                |                 |          |
|------------------------------------------------------------------------------------|---------------|----------|-------|---------------|----------------|-----------------|----------|
| Frequency(MHz)                                                                     | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 3422.93                                                                            | -34.06        | 12.90    | 12.56 | -33.72        | -13.00         | -20.72          | H        |
| 5134.42                                                                            | -34.45        | 13.10    | 16.32 | -37.67        | -13.00         | -24.67          | H        |
| 6846.15                                                                            | -32.38        | 12.33    | 21.13 | -41.18        | -13.00         | -28.18          | H        |
| 3422.93                                                                            | -35.61        | 12.90    | 12.56 | -35.27        | -13.00         | -22.27          | V        |
| 5134.42                                                                            | -34.60        | 13.10    | 16.32 | -37.82        | -13.00         | -24.82          | V        |
| 6846.15                                                                            | -32.28        | 12.33    | 21.13 | -41.08        | -13.00         | -28.08          | V        |
| LTE Band 66 / 3MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle  |               |          |       |               |                |                 |          |
| Frequency(MHz)                                                                     | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 3490.14                                                                            | -33.56        | 12.90    | 12.56 | -33.22        | -13.00         | -20.22          | H        |
| 5235.06                                                                            | -34.89        | 13.10    | 16.32 | -38.11        | -13.00         | -25.11          | H        |
| 6980.12                                                                            | -33.20        | 12.33    | 21.13 | -42.00        | -13.00         | -29.00          | H        |
| 3490.14                                                                            | -35.49        | 12.90    | 12.56 | -35.15        | -13.00         | -22.15          | V        |
| 5235.06                                                                            | -34.62        | 13.10    | 16.32 | -37.84        | -13.00         | -24.84          | V        |
| 6980.12                                                                            | -31.72        | 12.33    | 21.13 | -40.52        | -13.00         | -27.52          | V        |
| LTE Band 66 / 3MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest |               |          |       |               |                |                 |          |
| Frequency(MHz)                                                                     | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 3556.99                                                                            | -34.29        | 12.90    | 12.56 | -33.95        | -13.00         | -20.95          | H        |
| 5262.17                                                                            | -35.34        | 13.10    | 16.32 | -38.56        | -13.00         | -25.56          | H        |
| 7114.14                                                                            | -32.77        | 12.33    | 21.13 | -41.57        | -13.00         | -28.57          | H        |
| 3556.99                                                                            | -35.35        | 12.90    | 12.56 | -35.01        | -13.00         | -22.01          | V        |
| 5262.17                                                                            | -34.94        | 13.10    | 16.32 | -38.16        | -13.00         | -25.16          | V        |
| 7114.14                                                                            | -33.17        | 12.33    | 21.13 | -41.97        | -13.00         | -28.97          | V        |



| LTE Band 66 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest  |               |          |       |               |                |                 |          |
|------------------------------------------------------------------------------------|---------------|----------|-------|---------------|----------------|-----------------|----------|
| Frequency(MHz)                                                                     | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 3425.47                                                                            | -34.48        | 12.90    | 12.56 | -34.14        | -13.00         | -21.14          | H        |
| 5137.39                                                                            | -34.79        | 13.10    | 16.32 | -38.01        | -13.00         | -25.01          | H        |
| 6850.24                                                                            | -32.84        | 12.33    | 21.13 | -41.64        | -13.00         | -28.64          | H        |
| 3425.47                                                                            | -35.11        | 12.90    | 12.56 | -34.77        | -13.00         | -21.77          | V        |
| 5137.39                                                                            | -34.21        | 13.10    | 16.32 | -37.43        | -13.00         | -24.43          | V        |
| 6850.24                                                                            | -32.51        | 12.33    | 21.13 | -41.31        | -13.00         | -28.31          | V        |
| LTE Band 66 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle  |               |          |       |               |                |                 |          |
| Frequency(MHz)                                                                     | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 3490.12                                                                            | -34.68        | 12.90    | 12.56 | -34.34        | -13.00         | -21.34          | H        |
| 5234.85                                                                            | -34.55        | 13.10    | 16.32 | -37.77        | -13.00         | -24.77          | H        |
| 6980.21                                                                            | -33.32        | 12.33    | 21.13 | -42.12        | -13.00         | -29.12          | H        |
| 3490.12                                                                            | -34.75        | 12.90    | 12.56 | -34.41        | -13.00         | -21.41          | V        |
| 5234.85                                                                            | -34.08        | 13.10    | 16.32 | -37.30        | -13.00         | -24.30          | V        |
| 6980.21                                                                            | -31.99        | 12.33    | 21.13 | -40.79        | -13.00         | -27.79          | V        |
| LTE Band 66 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest |               |          |       |               |                |                 |          |
| Frequency(MHz)                                                                     | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 3557.87                                                                            | -34.66        | 12.90    | 12.56 | -34.32        | -13.00         | -21.32          | H        |
| 52354.02                                                                           | -34.59        | 13.10    | 16.32 | -37.81        | -13.00         | -24.81          | H        |
| 7110.02                                                                            | -33.04        | 12.33    | 21.13 | -41.84        | -13.00         | -28.84          | H        |
| 3557.87                                                                            | -34.76        | 12.90    | 12.56 | -34.42        | -13.00         | -21.42          | V        |
| 52354.02                                                                           | -34.21        | 13.10    | 16.32 | -37.43        | -13.00         | -24.43          | V        |
| 7110.02                                                                            | -32.66        | 12.33    | 21.13 | -41.46        | -13.00         | -28.46          | V        |



| LTE Band 66 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest  |               |          |       |               |                |                 |          |
|-------------------------------------------------------------------------------------|---------------|----------|-------|---------------|----------------|-----------------|----------|
| Frequency(MHz)                                                                      | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 3429.83                                                                             | -34.21        | 12.90    | 12.56 | -33.87        | -13.00         | -20.87          | H        |
| 5145.19                                                                             | -35.41        | 13.10    | 16.32 | -38.63        | -13.00         | -25.63          | H        |
| 6880.11                                                                             | -32.66        | 12.33    | 21.13 | -41.46        | -13.00         | -28.46          | H        |
| 3429.83                                                                             | -35.17        | 12.90    | 12.56 | -34.83        | -13.00         | -21.83          | V        |
| 5145.19                                                                             | -34.50        | 13.10    | 16.32 | -37.72        | -13.00         | -24.72          | V        |
| 6880.11                                                                             | -32.44        | 12.33    | 21.13 | -41.24        | -13.00         | -28.24          | V        |
| LTE Band 66 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle  |               |          |       |               |                |                 |          |
| Frequency(MHz)                                                                      | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 3489.93                                                                             | -34.88        | 12.90    | 12.56 | -34.54        | -13.00         | -21.54          | H        |
| 5235.25                                                                             | -34.97        | 13.10    | 16.32 | -38.19        | -13.00         | -25.19          | H        |
| 6979.81                                                                             | -33.13        | 12.33    | 21.13 | -41.93        | -13.00         | -28.93          | H        |
| 3489.93                                                                             | -35.00        | 12.90    | 12.56 | -34.66        | -13.00         | -21.66          | V        |
| 5235.25                                                                             | -35.03        | 13.10    | 16.32 | -38.25        | -13.00         | -25.25          | V        |
| 6979.81                                                                             | -32.63        | 12.33    | 21.13 | -41.43        | -13.00         | -28.43          | V        |
| LTE Band 66 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest |               |          |       |               |                |                 |          |
| Frequency(MHz)                                                                      | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 3550.49                                                                             | -33.46        | 12.90    | 12.56 | -33.12        | -13.00         | -20.12          | H        |
| 5235.13                                                                             | -35.40        | 13.10    | 16.32 | -38.62        | -13.00         | -25.62          | H        |
| 7099.99                                                                             | -32.36        | 12.33    | 21.13 | -41.16        | -13.00         | -28.16          | H        |
| 3550.49                                                                             | -34.58        | 12.90    | 12.56 | -34.24        | -13.00         | -21.24          | V        |
| 5235.13                                                                             | -34.43        | 13.10    | 16.32 | -37.65        | -13.00         | -24.65          | V        |
| 7099.99                                                                             | -32.01        | 12.33    | 21.13 | -40.81        | -13.00         | -27.81          | V        |



| LTE Band 66 / 15MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest  |               |          |       |               |                |                 |          |
|-------------------------------------------------------------------------------------|---------------|----------|-------|---------------|----------------|-----------------|----------|
| Frequency(MHz)                                                                      | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 3434.93                                                                             | -34.33        | 12.90    | 12.56 | -33.99        | -13.00         | -20.99          | H        |
| 5152.49                                                                             | -35.19        | 13.10    | 16.32 | -38.41        | -13.00         | -25.41          | H        |
| 6870.24                                                                             | -32.16        | 12.33    | 21.13 | -40.96        | -13.00         | -27.96          | H        |
| 3434.93                                                                             | -35.90        | 12.90    | 12.56 | -35.56        | -13.00         | -22.56          | V        |
| 5152.49                                                                             | -34.05        | 13.10    | 16.32 | -37.27        | -13.00         | -24.27          | V        |
| 6870.24                                                                             | -31.96        | 12.33    | 21.13 | -40.76        | -13.00         | -27.76          | V        |
| LTE Band 66 / 15MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle  |               |          |       |               |                |                 |          |
| Frequency(MHz)                                                                      | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 3490.12                                                                             | -34.44        | 12.90    | 12.56 | -34.10        | -13.00         | -21.10          | H        |
| 5235.16                                                                             | -34.26        | 13.10    | 16.32 | -37.48        | -13.00         | -24.48          | H        |
| 6979.96                                                                             | -32.53        | 12.33    | 21.13 | -41.33        | -13.00         | -28.33          | H        |
| 3490.12                                                                             | -35.40        | 12.90    | 12.56 | -35.06        | -13.00         | -22.06          | V        |
| 5235.16                                                                             | -34.08        | 13.10    | 16.32 | -37.30        | -13.00         | -24.30          | V        |
| 6979.96                                                                             | -31.80        | 12.33    | 21.13 | -40.60        | -13.00         | -27.60          | V        |
| LTE Band 66 / 15MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest |               |          |       |               |                |                 |          |
| Frequency(MHz)                                                                      | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 3545.10                                                                             | -33.80        | 12.90    | 12.56 | -33.46        | -13.00         | -20.46          | H        |
| 5332.57                                                                             | -34.82        | 13.10    | 16.32 | -38.04        | -13.00         | -25.04          | H        |
| 7089.95                                                                             | -33.24        | 12.33    | 21.13 | -42.04        | -13.00         | -29.04          | H        |
| 3545.10                                                                             | -34.95        | 12.90    | 12.56 | -34.61        | -13.00         | -21.61          | V        |
| 5332.57                                                                             | -34.54        | 13.10    | 16.32 | -37.76        | -13.00         | -24.76          | V        |
| 7089.95                                                                             | -32.82        | 12.33    | 21.13 | -41.62        | -13.00         | -28.62          | V        |



| LTE Band 66 / 20MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest  |               |          |       |            |             |              |          |
|-------------------------------------------------------------------------------------|---------------|----------|-------|------------|-------------|--------------|----------|
| Frequency(MHz)                                                                      | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea (dBm) | Limit (dBm) | Margin (dBm) | Polarity |
| 3440.03                                                                             | -34.23        | 12.90    | 12.56 | -33.89     | -13.00      | -20.89       | H        |
| 5160.12                                                                             | -34.08        | 13.10    | 16.32 | -37.30     | -13.00      | -24.30       | H        |
| 6880.02                                                                             | -32.78        | 12.33    | 21.13 | -41.58     | -13.00      | -28.58       | H        |
| 3440.03                                                                             | -35.91        | 12.90    | 12.56 | -35.57     | -13.00      | -22.57       | V        |
| 5160.12                                                                             | -34.84        | 13.10    | 16.32 | -38.06     | -13.00      | -25.06       | V        |
| 6880.02                                                                             | -32.67        | 12.33    | 21.13 | -41.47     | -13.00      | -28.47       | V        |
| LTE Band 66 / 20MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle  |               |          |       |            |             |              |          |
| Frequency(MHz)                                                                      | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea (dBm) | Limit (dBm) | Margin (dBm) | Polarity |
| 3489.91                                                                             | -34.49        | 12.90    | 12.56 | -34.15     | -13.00      | -21.15       | H        |
| 5234.97                                                                             | -34.81        | 13.10    | 16.32 | -38.03     | -13.00      | -25.03       | H        |
| 6979.81                                                                             | -33.57        | 12.33    | 21.13 | -42.37     | -13.00      | -29.37       | H        |
| 3489.91                                                                             | -35.42        | 12.90    | 12.56 | -35.08     | -13.00      | -22.08       | V        |
| 5234.97                                                                             | -34.74        | 13.10    | 16.32 | -37.96     | -13.00      | -24.96       | V        |
| 6979.81                                                                             | -32.46        | 12.33    | 21.13 | -41.26     | -13.00      | -28.26       | V        |
| LTE Band 66 / 20MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest |               |          |       |            |             |              |          |
| Frequency(MHz)                                                                      | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea (dBm) | Limit (dBm) | Margin (dBm) | Polarity |
| 3539.87                                                                             | -33.62        | 12.90    | 12.56 | -33.28     | -13.00      | -20.28       | H        |
| 5309.91                                                                             | -34.21        | 13.10    | 16.32 | -37.43     | -13.00      | -24.43       | H        |
| 7080.87                                                                             | -33.43        | 12.33    | 21.13 | -42.23     | -13.00      | -29.23       | H        |
| 3539.87                                                                             | -35.73        | 12.90    | 12.56 | -35.39     | -13.00      | -22.39       | V        |
| 5309.91                                                                             | -34.95        | 13.10    | 16.32 | -38.17     | -13.00      | -25.17       | V        |
| 7080.87                                                                             | -32.63        | 12.33    | 21.13 | -41.43     | -13.00      | -28.43       | V        |

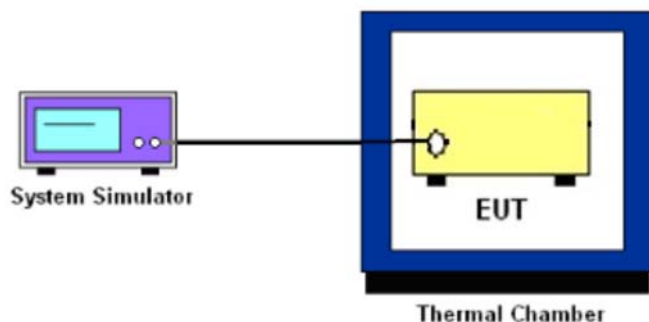
## 9. FREQUENCY STABILITY

### 9.1 DESCRIPTION OF FREQUENCY STABILITY MEASUREMENT

#### 10.1.1 MEASUREMENT METHOD

The frequency stability shall be measured by variation of ambient temperature and variation of primary supply voltage to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability of the transmitter shall be maintained within  $\pm 0.00025\%$  ( $\pm 2.5\text{ppm}$ ) of the center frequency.

#### 9.1.2 TEST SETUP



#### 9.1.3 TEST PROCEDURES FOR TEMPERATURE VARIATION

1. The EUT was set up in the thermal chamber and connected with the system simulator.
2. With power OFF, the temperature was decreased to  $-30^{\circ}\text{C}$  and the EUT was stabilized before testing. Power was applied and the maximum change in frequency was recorded within one minute.
3. With power OFF, the temperature was raised in  $10^{\circ}\text{C}$  step up to  $50^{\circ}\text{C}$ . The EUT was stabilized at each step for at least half an hour. Power was applied and the maximum frequency change was recorded within one minute.

#### 9.1.4 TEST PROCEDURES FOR VOLTAGE VARIATION

1. The testing follows FCC KDB 971168 D01v01r03 Section 9.
2. The EUT was placed in a temperature chamber at  $25 \pm 5^{\circ}\text{C}$  and connected with the system simulator.
3. The power supply voltage to the EUT was varied from 85% to 115% of the nominal value measured at the input to the EUT.
4. The variation in frequency was measured for the worst case.



## 9.1.5 TEST RESULTS

| LTE Band 2 (QPSK) / 1880MHz / BW10M |                 |            |            |        |        |
|-------------------------------------|-----------------|------------|------------|--------|--------|
| Temperature (°C)                    | Voltage         | Freq. Dev. | Freq. Dev. | Limit  | Result |
|                                     | (Volt)          | (Hz)       | (ppm)      |        |        |
| 50                                  | Normal Voltage  | 29.31      | 0.016      | 2.5ppm | PASS   |
| 40                                  |                 | 27.78      | 0.015      |        |        |
| 30                                  |                 | 32.50      | 0.017      |        |        |
| 20                                  |                 | 21.79      | 0.012      |        |        |
| 10                                  |                 | 20.27      | 0.011      |        |        |
| 0                                   |                 | 31.73      | 0.017      |        |        |
| -10                                 |                 | 16.31      | 0.009      |        |        |
| -20                                 |                 | 12.92      | 0.007      |        |        |
| -30                                 |                 | 35.49      | 0.019      |        |        |
| 20                                  | Maximum Voltage | 29.42      | 0.016      |        |        |
| 20                                  | BEP             | 27.40      | 0.015      |        |        |

| LTE Band 2 (QPSK) / 1880MHz / BW20M |                 |            |            |        |        |
|-------------------------------------|-----------------|------------|------------|--------|--------|
| Temperature (°C)                    | Voltage         | Freq. Dev. | Freq. Dev. | Limit  | Result |
|                                     | (Volt)          | (Hz)       | (ppm)      |        |        |
| 50                                  | Normal Voltage  | 36.15      | 0.019      | 2.5ppm | PASS   |
| 40                                  |                 | 26.90      | 0.014      |        |        |
| 30                                  |                 | 29.68      | 0.016      |        |        |
| 20                                  |                 | 29.06      | 0.015      |        |        |
| 10                                  |                 | 32.46      | 0.017      |        |        |
| 0                                   |                 | 21.95      | 0.012      |        |        |
| -10                                 |                 | 17.87      | 0.010      |        |        |
| -20                                 |                 | 35.94      | 0.019      |        |        |
| -30                                 |                 | 18.58      | 0.010      |        |        |
| 20                                  | Maximum Voltage | 21.61      | 0.011      |        |        |
| 20                                  | BEP             | 21.71      | 0.012      |        |        |



| LTE Band 4 (QPSK) / 1733MHz / BW10M |                 |            |            |        |        |
|-------------------------------------|-----------------|------------|------------|--------|--------|
| Temperature (°C)                    | Voltage         | Freq. Dev. | Freq. Dev. | Limit  | Result |
|                                     | (Volt)          | (Hz)       | (ppm)      |        |        |
| 50                                  | Normal Voltage  | 31.27      | 0.018      | 2.5ppm | PASS   |
| 40                                  |                 | 23.70      | 0.014      |        |        |
| 30                                  |                 | 13.65      | 0.008      |        |        |
| 20                                  |                 | 17.74      | 0.010      |        |        |
| 10                                  |                 | 23.88      | 0.014      |        |        |
| 0                                   |                 | 16.33      | 0.009      |        |        |
| -10                                 |                 | 32.79      | 0.019      |        |        |
| -20                                 |                 | 36.06      | 0.021      |        |        |
| -30                                 |                 | 29.01      | 0.017      |        |        |
| 20                                  | Maximum Voltage | 28.14      | 0.016      |        |        |
| 20                                  | BEP             | 15.19      | 0.009      |        |        |

| LTE Band 4 (QPSK) / 1733MHz / BW20M |                 |            |            |        |        |
|-------------------------------------|-----------------|------------|------------|--------|--------|
| Temperature (°C)                    | Voltage         | Freq. Dev. | Freq. Dev. | Limit  | Result |
|                                     | (Volt)          | (Hz)       | (ppm)      |        |        |
| 50                                  | Normal Voltage  | 21.90      | 0.013      | 2.5ppm | PASS   |
| 40                                  |                 | 24.94      | 0.014      |        |        |
| 30                                  |                 | 31.65      | 0.018      |        |        |
| 20                                  |                 | 15.94      | 0.009      |        |        |
| 10                                  |                 | 13.23      | 0.008      |        |        |
| 0                                   |                 | 19.84      | 0.011      |        |        |
| -10                                 |                 | 15.22      | 0.009      |        |        |
| -20                                 |                 | 25.28      | 0.015      |        |        |
| -30                                 |                 | 13.87      | 0.008      |        |        |
| 20                                  | Maximum Voltage | 31.14      | 0.018      |        |        |
| 20                                  | BEP             | 12.30      | 0.007      |        |        |



| LTE Band 5 (QPSK) / 836.5MHz / BW5M |                 |            |            |        |        |
|-------------------------------------|-----------------|------------|------------|--------|--------|
| Temperature (°C)                    | Voltage         | Freq. Dev. | Freq. Dev. | Limit  | Result |
|                                     | (Volt)          | (Hz)       | (ppm)      |        |        |
| 50                                  | Normal Voltage  | 35.05      | 0.049      | 2.5ppm | PASS   |
| 40                                  |                 | 13.50      | 0.019      |        |        |
| 30                                  |                 | 31.08      | 0.044      |        |        |
| 20                                  |                 | 29.28      | 0.041      |        |        |
| 10                                  |                 | 35.63      | 0.050      |        |        |
| 0                                   |                 | 14.69      | 0.021      |        |        |
| -10                                 |                 | 15.51      | 0.002      |        |        |
| -20                                 |                 | 24.41      | 0.034      |        |        |
| -30                                 |                 | 30.31      | 0.043      |        |        |
| 20                                  | Maximum Voltage | 26.99      | 0.038      |        |        |
| 20                                  | BEP             | 32.15      | 0.045      |        |        |

| LTE Band 5 (QPSK) / 836.5MHz / BW10M |                 |            |            |        |        |
|--------------------------------------|-----------------|------------|------------|--------|--------|
| Temperature (°C)                     | Voltage         | Freq. Dev. | Freq. Dev. | Limit  | Result |
|                                      | (Volt)          | (Hz)       | (ppm)      |        |        |
| 50                                   | Normal Voltage  | 32.93      | 0.046      | 2.5ppm | PASS   |
| 40                                   |                 | 12.01      | 0.017      |        |        |
| 30                                   |                 | 30.80      | 0.043      |        |        |
| 20                                   |                 | 35.21      | 0.050      |        |        |
| 10                                   |                 | 15.77      | 0.022      |        |        |
| 0                                    |                 | 26.07      | 0.037      |        |        |
| -10                                  |                 | 11.62      | 0.002      |        |        |
| -20                                  |                 | 34.48      | 0.049      |        |        |
| -30                                  |                 | 18.54      | 0.026      |        |        |
| 20                                   | Maximum Voltage | 15.85      | 0.022      |        |        |
| 20                                   | BEP             | 26.41      | 0.037      |        |        |



| LTE Band 12 (QPSK) / 707.5MHz / BW5M |                 |            |            |        |        |
|--------------------------------------|-----------------|------------|------------|--------|--------|
| Temperature (°C)                     | Voltage         | Freq. Dev. | Freq. Dev. | Limit  | Result |
|                                      | (Volt)          | (Hz)       | (ppm)      |        |        |
| 50                                   | Normal Voltage  | 23.14      | 0.033      | 2.5ppm | PASS   |
| 40                                   |                 | 24.19      | 0.034      |        |        |
| 30                                   |                 | 14.32      | 0.020      |        |        |
| 20                                   |                 | 20.20      | 0.028      |        |        |
| 10                                   |                 | 31.10      | 0.044      |        |        |
| 0                                    |                 | 29.59      | 0.042      |        |        |
| -10                                  |                 | 19.05      | 0.003      |        |        |
| -20                                  |                 | 13.56      | 0.019      |        |        |
| -30                                  |                 | 24.06      | 0.034      |        |        |
| 20                                   | Maximum Voltage | 29.02      | 0.041      |        |        |
| 20                                   | BEP             | 16.77      | 0.024      |        |        |

| LTE Band 12 (QPSK) / 707.5MHz / BW10M |                 |            |            |        |        |
|---------------------------------------|-----------------|------------|------------|--------|--------|
| Temperature (°C)                      | Voltage         | Freq. Dev. | Freq. Dev. | Limit  | Result |
|                                       | (Volt)          | (Hz)       | (ppm)      |        |        |
| 50                                    | Normal Voltage  | 18.64      | 0.026      | 2.5ppm | PASS   |
| 40                                    |                 | 34.71      | 0.049      |        |        |
| 30                                    |                 | 12.67      | 0.018      |        |        |
| 20                                    |                 | 24.07      | 0.034      |        |        |
| 10                                    |                 | 21.53      | 0.030      |        |        |
| 0                                     |                 | 24.61      | 0.035      |        |        |
| -10                                   |                 | 26.96      | 0.004      |        |        |
| -20                                   |                 | 29.12      | 0.041      |        |        |
| -30                                   |                 | 32.65      | 0.046      |        |        |
| 20                                    | Maximum Voltage | 29.00      | 0.041      |        |        |
| 20                                    | BEP             | 18.71      | 0.026      |        |        |



| LTE Band 66 (QPSK) / 1745MHz / BW10M |                 |            |            |        |        |
|--------------------------------------|-----------------|------------|------------|--------|--------|
| Temperature (°C)                     | Voltage         | Freq. Dev. | Freq. Dev. | Limit  | Result |
|                                      | (Volt)          | (Hz)       | (ppm)      |        |        |
| 50                                   | Normal Voltage  | 21.07      | 0.012      | 2.5ppm | PASS   |
| 40                                   |                 | 15.16      | 0.009      |        |        |
| 30                                   |                 | 22.11      | 0.013      |        |        |
| 20                                   |                 | 27.88      | 0.016      |        |        |
| 10                                   |                 | 12.09      | 0.007      |        |        |
| 0                                    |                 | 15.12      | 0.009      |        |        |
| -10                                  |                 | 19.18      | 0.011      |        |        |
| -20                                  |                 | 33.76      | 0.019      |        |        |
| -30                                  |                 | 32.38      | 0.019      |        |        |
| 20                                   | Maximum Voltage | 32.21      | 0.019      |        |        |
| 20                                   | BEP             | 14.58      | 0.008      |        |        |

| LTE Band 66 (QPSK) / 1745MHz / BW20M |                 |            |            |        |        |
|--------------------------------------|-----------------|------------|------------|--------|--------|
| Temperature (°C)                     | Voltage         | Freq. Dev. | Freq. Dev. | Limit  | Result |
|                                      | (Volt)          | (Hz)       | (ppm)      |        |        |
| 50                                   | Normal Voltage  | 31.56      | 0.018      | 2.5ppm | PASS   |
| 40                                   |                 | 23.08      | 0.013      |        |        |
| 30                                   |                 | 18.21      | 0.011      |        |        |
| 20                                   |                 | 11.74      | 0.007      |        |        |
| 10                                   |                 | 15.35      | 0.009      |        |        |
| 0                                    |                 | 26.09      | 0.015      |        |        |
| -10                                  |                 | 34.25      | 0.020      |        |        |
| -20                                  |                 | 13.95      | 0.008      |        |        |
| -30                                  |                 | 27.06      | 0.016      |        |        |
| 20                                   | Maximum Voltage | 17.95      | 0.010      |        |        |
| 20                                   | BEP             | 13.71      | 0.008      |        |        |



## APPENDIX-PHOTOS OF TEST SETUP

Note: See test photos in setup photo document for the actual connections between Product and support equipment.

※※※※※END OF THE REPORT※※※※※

