



RADIO TEST REPORT

Report No.:STS2006043W01

Issued for

SIMCom Wireless Solutions Limited

No.633, Jinzhong Road, Shanghai, China

|                |                                     |
|----------------|-------------------------------------|
| Product Name:  | LTE/GNSS MODULE                     |
| Brand Name:    | SIMCom                              |
| Model Name:    | SIM7600G-H                          |
| Series Model:  | SIM7600G-H miniPCIE                 |
| FCC ID:        | 2AJYU-8PYA007                       |
| Test Standard: | 47 CFR Part 2, 22(H), 24(E), 27, 90 |

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**TEST RESULT CERTIFICATION**

**Applicant's Name** .....: SIMCom Wireless Solutions Limited  
**Address** .....: No.633, Jinzhong Road, Shanghai, China  
**Manufacture's Name** .....: SIMCom Wireless Solutions Limited  
**Address** .....: No.633, Jinzhong Road, Shanghai, China

**Product Description**

**Product Name** .....: LTE/GNSS MODULE  
**Brand Name** .....: SIMCom  
**Model Name** .....: SIM7600G-H  
**Series Model** .....: SIM7600G-H miniPCIE  
**Test Standards**.....: 47 CFR Part 2, 22(H), 24(E), 27, 90  
**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.  
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**Date of Test**.....:  
**Date of receipt of test item**.....: 16 June 2020  
**Date (s) of performance of tests**.: 16 June 2020 ~ 12 Aug. 2020  
**Date of Issue** .....: 12 Aug. 2020  
**Test Result** .....: Pass

Testing Engineer :

(Chris Chen)

Technical Manager :

(Sean she)

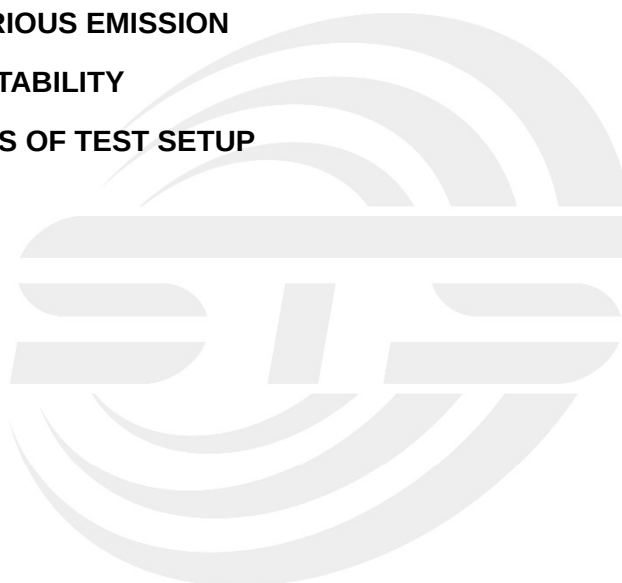
Authorized Signatory :

(Vita Li)





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**Revision History**

| Rev. | Issue Date   | Report NO.    | Effect Page | Contents      |
|------|--------------|---------------|-------------|---------------|
| 00   | 12 Aug. 2020 | STS2006043W01 | 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        | $\pm 0.68\text{dB}$  |
| 2   | Unwanted Emissions, conducted     | $\pm 2.988\text{dB}$ |
| 3   | All emissions, radiated 30-1GHz   | $\pm 5.6\text{dB}$   |
| 4   | All emissions, radiated 1G-6GHz   | $\pm 5.5\text{dB}$   |
| 5   | All emissions, radiated >6G       | $\pm 5.8\text{dB}$   |
| 6   | Conducted Emission (9KHz-150KHz)  | $\pm 3.37\text{dB}$  |
| 7   | Conducted Emission (150KHz-30MHz) | $\pm 3.83\text{dB}$  |



## 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:               | LTE/GNSS MODULE                                                                                                                                                                           |
| Trade Name                  | SIMCom                                                                                                                                                                                    |
| Model Name                  | SIM7600G-H                                                                                                                                                                                |
| Series Model                | SIM7600G-H miniPCIE                                                                                                                                                                       |
| Model Difference            | Only different in model name and appearance.                                                                                                                                              |
| 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 13     LTE FDD Band 25<br>LTE FDD Band 26     LTE TDD Band 41<br>LTE FDD Band 66 |
| SIM CARD:                   | Only support single SIM Card.                                                                                                                                                             |
| Antenna:                    | Dipole                                                                                                                                                                                    |
| Antenna gain:               | Band2:1.87dBi, Band4:3.12dBi, Band5:0.91dBi,<br>Band12:0.95dBi, Band13:2.23dBi, Band25:1.87dBi,<br>Band26:0.91dBi, Band41:2.90dBi, Band66:3.12dBi                                         |
| Power Rating:               | Input: 3.8V                                                                                                                                                                               |
| Extreme Vol. Limits:        | 3.3V to 4.2V (Nominal 3.8V)                                                                                                                                                               |
| Extreme Temp.<br>Tolerance: | -40°C to +85°C                                                                                                                                                                            |
| Hardware version<br>number: | V2.02                                                                                                                                                                                     |
| Software version number:    | SIM7600M22_V2.0                                                                                                                                                                           |



## 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 13:777~787MHz<br>LTE Band 25:1850~1915MHz<br>LTE Band 26:814~849MHz<br>LTE Band 41:2496~2690MHz<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 13:746~756MHz<br>LTE Band 25:1930~1995MHz<br>LTE Band 26:859~894MHz<br>LTE Band 41:2496~2690MHz<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 13: 5MHz / 10MHz<br>LTE Band 25: 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz /20MHz<br>LTE Band 26: 1.4MHz / 3MHz / 5MHz / 10MHz/15MHz<br>LTE Band 41: 5MHz / 10MHz / 15MHz /20MHz<br>LTE Band 66: 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz /20MHz |
| Maximum Output Power                              | LTE Band 2: 23.20 dBm<br>LTE Band 4: 23.67 dBm<br>LTE Band 5: 25.30 dBm<br>LTE Band 12: 24.35 dBm<br>LTE Band 13: 22.06 dBm<br>LTE Band 25: 23.46 dBm<br>LTE Band 26: 24.16 dBm<br>LTE Band 41: 23.16 dBm<br>LTE Band 66: 23.08 dBm                                                                                                                                                                                                                             |
| Type of Modulation                                | QPSK /16QAM                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

| RF Function | Band                                | UE Category UL | Modulation  | Power Class | Ant Gain(dBi)                                                                 | Ant Type | SIM Card                      |
|-------------|-------------------------------------|----------------|-------------|-------------|-------------------------------------------------------------------------------|----------|-------------------------------|
| LTE         | FDD:B2,B4, B5, B12,B13,B25,B26, B66 | 4              | QPSK, 16QAM | 3           | B2:1.87<br>B4:3.12<br>B5:0.91<br>B12:0.95<br>B13:2.23<br>B25:1.87<br>B26:0.91 | Dipole   | 1<br>SIM 1 is used to tested. |
|             | TDD:B41                             |                |             |             | B41:2.9<br>B66:3.12                                                           |          |                               |



## 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                        | 2M69G7D             | 2M68W7D             |
| 5                        | 4M52G7D             | 4M53W7D             |
| 10                       | 8M93G7D             | 8M92W7D             |
| 15                       | 13M4G7D             | 13M4W7D             |
| 20                       | 17M9G7D             | 17M9W7D             |
| LTE Band 4               | Emission Designator | Emission Designator |
| BW(MHz)                  | (99%OBW)QPSK        | (99%OBW)16QAM       |
| 1.4                      | 1M10G7D             | 1M10W7D             |
| 3                        | 2M69G7D             | 2M68W7D             |
| 5                        | 4M52G7D             | 4M53W7D             |
| 10                       | 8M93G7D             | 8M93W7D             |
| 15                       | 13M4G7D             | 13M5W7D             |
| 20                       | 17M9G7D             | 17M9W7D             |
| LTE Band 5               | Emission Designator | Emission Designator |
| BW(MHz)                  | (99%OBW)QPSK        | (99%OBW)16QAM       |
| 1.4                      | 1M11G7D             | 1M10W7D             |
| 3                        | 2M69G7D             | 2M68W7D             |
| 5                        | 4M51G7D             | 4M53W7D             |
| 10                       | 8M91G7D             | 8M92W7D             |
| LTE Band 12              | Emission Designator | Emission Designator |
| BW(MHz)                  | (99% BW)QPSK        | (99% BW)16QAM       |
| 1.4                      | 1M11G7D             | 1M10W7D             |
| 3                        | 2M69G7D             | 2M68W7D             |
| 5                        | 4M52G7D             | 4M53W7D             |
| 10                       | 8M95G7D             | 8M94W7D             |
| LTE Band 13              | Emission Designator | Emission Designator |
| BW(MHz)                  | (99% BW)QPSK        | (99% BW)16QAM       |
| 5                        | 4M53G7D             | 4M53W7D             |
| 10                       | 8M97G7D             | 8M95W7D             |
| LTE Band 25              | Emission Designator | Emission Designator |
| BW(MHz)                  | (99% BW)QPSK        | (99% BW)16QAM       |
| 1.4                      | 1M10G7D             | 1M10W7D             |
| 3                        | 2M69G7D             | 2M68W7D             |
| 5                        | 4M53G7D             | 4M53W7D             |
| 10                       | 8M91G7D             | 8M92W7D             |
| 15                       | 13M4G7D             | 13M4W7D             |
| 20                       | 17M8G7D             | 17M8W7D             |
| LTE Band 26<br>(Part 22) | Emission Designator | Emission Designator |
| BW(MHz)                  | (99% BW)QPSK        | (99% BW)16QAM       |
| 1.4                      | 1M11G7D             | 1M10W7D             |
| 3                        | 2M68G7D             | 2M68W7D             |
| 5                        | 4M51G7D             | 4M53W7D             |
| 10                       | 8M92G7D             | 8M92W7D             |
| 15                       | 13M4G7D             | 13M5W7D             |



| LTE Band 26<br>(Part 90) | Emission Designator | Emission Designator |
|--------------------------|---------------------|---------------------|
| BW(MHz)                  | (99% BW)QPSK        | (99% BW)16QAM       |
| 1.4                      | 1M10G7D             | 1M10W7D             |
| 3                        | 2M69G7D             | 2M68W7D             |
| 5                        | 4M53G7D             | 4M53W7D             |
| 10                       | 8M92G7D             | 8M93W7D             |
| LTE Band 41              | Emission Designator | Emission Designator |
| BW(MHz)                  | (99% BW)QPSK        | (99% BW)16QAM       |
| 5                        | 4M52G7D             | 4M51W7D             |
| 10                       | 8M94G7D             | 8M94W7D             |
| 15                       | 13M5G7D             | 13M5W7D             |
| 20                       | 17M9G7D             | 17M9W7D             |
| LTE Band 66              | Emission Designator | Emission Designator |
| BW(MHz)                  | (99% BW)QPSK        | (99% BW)16QAM       |
| 1.4                      | 1M11G7D             | 1M10W7D             |
| 3                        | 2M69G7D             | 2M68W7D             |
| 5                        | 4M52G7D             | 4M53W7D             |
| 10                       | 8M93G7D             | 8M93W7D             |
| 15                       | 13M4G7D             | 13M4W7D             |
| 20                       | 17M9G7D             | 19M9W7D             |



## 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 |
|                    | 13   |                 |   | v | v  |    |    | v          | v     | v    | v    | v    |              | v |   |
|                    | 25   | v               | v | v | v  | v  | v  | v          | v     | v    | v    | v    | v            | v | v |
|                    | 26   | v               | v | v | v  | v  |    | v          | v     | v    | v    | v    | v            | v | v |
|                    | 41   |                 |   | 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 |
|                    | 13   |                 |   |   | v  |    |    | v          | v     | v    |      | v    |              | v |   |
|                    | 25   |                 |   |   |    |    | v  | v          | v     | v    |      | v    | v            | v | v |
|                    | 26   |                 |   |   |    | v  |    | v          | v     | v    |      | v    | v            | v | v |
|                    | 41   |                 |   |   |    |    | 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 |
|                    | 13   |                 |   | v | v  |    |    | v          | v     |      |      | v    |              | v |   |
|                    | 25   | v               | v | v | v  | v  | v  | v          | v     |      |      | v    | v            | v | v |
|                    | 26   | v               | v | v | v  | v  |    | v          | v     |      |      | v    | v            | v | v |
|                    | 41   |                 |   | v | v  | v  | v  | v          | v     |      |      | v    | v            | v | v |
|                    | 66   | v               | v | v | v  | v  | v  | v          | v     |      |      | v    | v            | v | v |



|                                   |    |   |   |   |   |   |   |   |   |   |  |   |   |   |   |
|-----------------------------------|----|---|---|---|---|---|---|---|---|---|--|---|---|---|---|
| Conducted<br>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 |
|                                   | 13 |   |   | v | v |   |   | v | v | v |  | v |   | v |   |
|                                   | 25 | v | v | v | v | v | v | v | v | v |  | v | v | v | v |
|                                   | 26 | v | v | v | v | v |   | v | v | v |  | v | v | v | v |
|                                   | 41 |   |   | 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<br>Spurious<br>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 |
|                                   | 13 |   |   | v | v |   |   | v | v | v |  |   |   | v |   |
|                                   | 25 | v | v | v | v | v | v | v | v | v |  |   | v | v | v |
|                                   | 26 | v | v | v | v | v |   | v | v | v |  |   | v | v | v |
|                                   | 41 |   |   | v | v | v | v | v | v | v |  |   | v | v | v |
|                                   | 66 | v | v | v | v | v | v | v | v | v |  |   | v | v | v |
| Frequency<br>Stability            | 2  |   |   |   | v |   |   | v |   |   |  | v |   | v |   |
|                                   | 4  |   |   |   | v |   |   | v |   |   |  | v |   | v |   |
|                                   | 5  |   |   |   | v |   |   | v |   |   |  | v |   | v |   |
|                                   | 12 |   |   |   | v |   |   | v |   |   |  | v |   | v |   |
|                                   | 13 |   |   |   | v |   |   | v |   |   |  | v |   | v |   |
|                                   | 25 |   |   |   | v |   |   | v |   |   |  | v |   | v |   |
|                                   | 26 |   |   |   | v |   |   | v |   |   |  | v |   | v |   |
|                                   | 41 |   |   |   | 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 |
|                                   | 4  | v | v | v | v | v | v | v | v | v |  |   | v | v | v |
|                                   | 5  | v | v | v | v |   |   | v | v | v |  |   | v | v | v |
|                                   | 12 | v | v | v | v |   |   | v | v | v |  |   | v | v | v |
|                                   | 13 |   |   | v | v |   |   | v | v | v |  |   |   | v |   |
|                                   | 25 | v | v | v | v | v | v | v | v | v |  |   | v | v | v |
|                                   | 26 | v | v | v | v | v |   | v | v | v |  |   | v | v | v |
|                                   | 41 |   |   | v | v | v | v | v | v | v |  |   | v | v | v |
|                                   | 66 | 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 |
|                                  | 13 |   |   | v | v |   |   | v |  | v |  |  |   | v |   |
|                                  | 25 | v | v | v | v | v | v | v |  | v |  |  | v | v | v |
|                                  | 26 | v | v | v | v | v |   | v |  | v |  |  | v | v | v |
|                                  | 41 |   |   | 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, 22(H), 24(E), 27, 90.

#### 2.1.6 SPECIAL ACCESSORIES

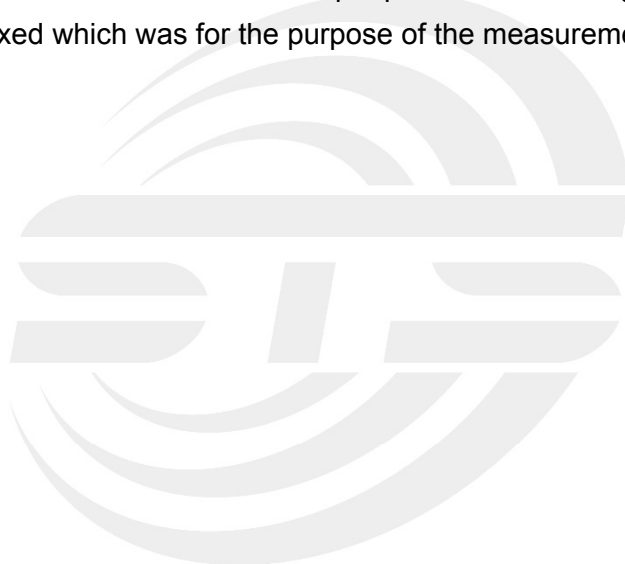
The battery and the charger, earphone supplied by the applicant were used as accessories and being tested with eut intended for fcc grant together.

#### 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. | Serial No. | Note |
|------|-----------|-----------|------------|------|
| N/A  | N/A       | N/A       | N/A        | N/A  |
|      |           |           |            |      |
|      |           |           |            |      |
|      |           |           |            |      |

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in 『Length』 column.



## 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       | 2019.10.09       | 2020.10.08       |
| Signal Analyzer                  | Agilent      | N9020A           | MY51110105   | 2020.03.05       | 2021.03.04       |
| Signal generator                 | Agilent      | 83752A           | 3610A02740   | 2019.10.09       | 2020.10.08       |
| Wireless Communications Test Set | R&S          | CMW 500          | 133884       | 2020.03.05       | 2021.03.04       |
| Bilog Antenna                    | TESEQ        | CBL6111D         | 34678        | 2017.11.02       | 2020.11.01       |
| Horn Antenna                     | SCHWARZBECK  | BBHA 9120D(1201) | 9120D-1343   | 2018.10.19       | 2021.10.18       |
| Bilog Antenna                    | TESEQ        | CBL6111D         | 45873        | 2018.10.26       | 2021.10.25       |
| Horn Antenna                     | SCHWARZBECK  | BBHA 9120D(1201) | 9120D-2014   | 2019.10.15       | 2022.10.14       |
| SHF-EHF Horn Antenna (18G-40GHz) | A-INFO       | LB-180400-KF     | J211020657   | 2018.03.11       | 2021.03.10       |
| Pre-Amplifier (0.1M-3GHz)        | EM           | EM330            | 060665       | 2019.10.09       | 2020.10.08       |
| Pre-Amplifier (1G-18GHz)         | SKET         | LNPA-01018G-45   | SK2018080901 | 2019.10.12       | 2020.10.11       |
| Pre-Amplifier (18G-40GHz)        | SKET         | LNPA-1840-50     | SK2018101801 | 2019.10.12       | 2020.10.11       |
| 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          | 2019.10.17       | 2020.10.16       |
| 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     | 2020.10.11       | 2021.10.10       |
| Wireless Communications Test Set     | R&S          | CMW 500         | 133884     | 2020.03.05       | 2021.03.04       |
| Signal Analyzer                      | Agilent      | N9020A          | MY49100060 | 2019.10.09       | 2020.10.08       |
| Temperature & Humidity               | HH660        | Mieo            | N/A        | 2019.10.17       | 2020.10.16       |
| 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.*



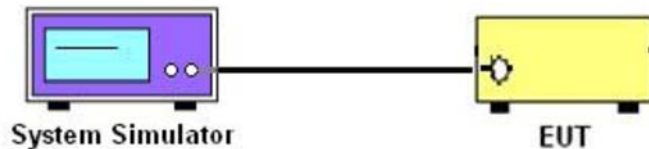
### 3. CONDUCTED OUTPUT POWER

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

##### 3.1.1 MEASUREMENT METHOD

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.

##### 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

| LTE Band 2 Maximum Average Power [dBm] |         |           |        |        |        |         |
|----------------------------------------|---------|-----------|--------|--------|--------|---------|
| BW [MHz]                               | RB Size | RB Offset | Mod    | Lowest | Middle | Highest |
| 1.4                                    | 1       | 0         | QPSK   | 22.86  | 22.93  | 22.88   |
| 1.4                                    | 1       | 2         |        | 22.61  | 22.72  | 22.62   |
| 1.4                                    | 1       | 5         |        | 22.40  | 22.45  | 22.33   |
| 1.4                                    | 3       | 0         |        | 22.11  | 22.19  | 22.12   |
| 1.4                                    | 3       | 1         |        | 21.87  | 21.96  | 21.85   |
| 1.4                                    | 3       | 2         |        | 21.61  | 21.68  | 21.56   |
| 1.4                                    | 6       | 0         |        | 21.33  | 21.46  | 21.36   |
| 1.4                                    | 1       | 0         | 16-QAM | 22.64  | 22.71  | 22.67   |
| 1.4                                    | 1       | 2         |        | 22.39  | 22.41  | 22.38   |
| 1.4                                    | 1       | 5         |        | 22.13  | 22.11  | 22.13   |
| 1.4                                    | 3       | 0         |        | 21.85  | 21.90  | 21.91   |
| 1.4                                    | 3       | 1         |        | 21.55  | 21.66  | 21.70   |
| 1.4                                    | 3       | 2         |        | 21.31  | 21.37  | 21.43   |
| 1.4                                    | 6       | 0         |        | 21.11  | 21.09  | 21.20   |
| 3                                      | 1       | 0         | QPSK   | 23.07  | 23.01  | 22.96   |
| 3                                      | 1       | 7         |        | 22.86  | 22.79  | 22.74   |
| 3                                      | 1       | 14        |        | 22.58  | 22.55  | 22.54   |
| 3                                      | 8       | 0         |        | 22.33  | 22.30  | 22.27   |
| 3                                      | 8       | 4         |        | 22.11  | 22.08  | 22.05   |
| 3                                      | 8       | 7         |        | 21.87  | 21.78  | 21.77   |
| 3                                      | 15      | 0         |        | 21.64  | 21.56  | 21.47   |
| 3                                      | 1       | 0         | 16-QAM | 22.85  | 22.71  | 22.69   |
| 3                                      | 1       | 7         |        | 22.65  | 22.44  | 22.40   |
| 3                                      | 1       | 14        |        | 22.40  | 22.17  | 22.16   |
| 3                                      | 8       | 0         |        | 22.19  | 21.95  | 21.94   |
| 3                                      | 8       | 4         |        | 21.94  | 21.66  | 21.66   |
| 3                                      | 8       | 7         |        | 21.66  | 21.39  | 21.45   |
| 3                                      | 15      | 0         |        | 21.42  | 21.12  | 21.15   |



| LTE Band 2 Maximum Average Power [dBm] |         |           |        |        |        |         |
|----------------------------------------|---------|-----------|--------|--------|--------|---------|
| BW [MHz]                               | RB Size | RB Offset | Mod    | Lowest | Middle | Highest |
| 5                                      | 1       | 0         | QPSK   | 22.77  | 22.92  | 22.83   |
| 5                                      | 1       | 12        |        | 22.55  | 22.68  | 22.57   |
| 5                                      | 1       | 24        |        | 22.34  | 22.47  | 22.29   |
| 5                                      | 12      | 0         |        | 22.07  | 22.17  | 22.08   |
| 5                                      | 12      | 6         |        | 21.79  | 21.88  | 21.86   |
| 5                                      | 12      | 11        |        | 21.57  | 21.59  | 21.63   |
| 5                                      | 25      | 0         |        | 21.35  | 21.31  | 21.42   |
| 5                                      | 1       | 0         | 16-QAM | 22.49  | 22.67  | 22.57   |
| 5                                      | 1       | 12        |        | 22.27  | 22.39  | 22.36   |
| 5                                      | 1       | 24        |        | 21.98  | 22.12  | 22.10   |
| 5                                      | 12      | 0         |        | 21.77  | 21.84  | 21.82   |
| 5                                      | 12      | 6         |        | 21.55  | 21.62  | 21.56   |
| 5                                      | 12      | 11        |        | 21.27  | 21.33  | 21.26   |
| 5                                      | 25      | 0         |        | 21.01  | 21.11  | 21.03   |
| 10                                     | 1       | 0         | QPSK   | 22.89  | 23.09  | 22.66   |
| 10                                     | 1       | 24        |        | 22.59  | 22.82  | 22.45   |
| 10                                     | 1       | 49        |        | 22.36  | 22.58  | 22.22   |
| 10                                     | 25      | 0         |        | 22.15  | 22.29  | 22.01   |
| 10                                     | 25      | 12        |        | 21.90  | 22.06  | 21.73   |
| 10                                     | 25      | 24        |        | 21.65  | 21.78  | 21.46   |
| 10                                     | 50      | 0         |        | 21.44  | 21.52  | 21.25   |
| 10                                     | 1       | 0         | 16-QAM | 22.68  | 22.83  | 22.38   |
| 10                                     | 1       | 24        |        | 22.40  | 22.56  | 22.12   |
| 10                                     | 1       | 49        |        | 22.10  | 22.33  | 21.84   |
| 10                                     | 25      | 0         |        | 21.84  | 22.10  | 21.63   |
| 10                                     | 25      | 12        |        | 21.54  | 21.85  | 21.35   |
| 10                                     | 25      | 24        |        | 21.32  | 21.57  | 21.14   |
| 10                                     | 50      | 0         |        | 21.10  | 21.35  | 20.90   |



| LTE Band 2 Maximum Average Power [dBm] |         |           |        |        |        |         |
|----------------------------------------|---------|-----------|--------|--------|--------|---------|
| BW [MHz]                               | RB Size | RB Offset | Mod    | Lowest | Middle | Highest |
| 15                                     | 1       | 0         | QPSK   | 22.99  | 22.97  | 22.77   |
| 15                                     | 1       | 37        |        | 22.69  | 22.70  | 22.51   |
| 15                                     | 1       | 74        |        | 22.47  | 22.43  | 22.24   |
| 15                                     | 36      | 0         |        | 22.22  | 22.15  | 21.96   |
| 15                                     | 36      | 18        |        | 22.01  | 21.89  | 21.73   |
| 15                                     | 36      | 39        |        | 21.74  | 21.63  | 21.45   |
| 15                                     | 75      | 0         |        | 21.53  | 21.36  | 21.21   |
| 15                                     | 1       | 0         | 16-QAM | 22.74  | 22.73  | 22.55   |
| 15                                     | 1       | 38        |        | 22.46  | 22.49  | 22.33   |
| 15                                     | 1       | 75        |        | 22.25  | 22.25  | 22.09   |
| 15                                     | 36      | 0         |        | 22.01  | 21.97  | 21.80   |
| 15                                     | 36      | 18        |        | 21.80  | 21.76  | 21.58   |
| 15                                     | 36      | 39        |        | 21.52  | 21.50  | 21.35   |
| 15                                     | 75      | 0         |        | 21.26  | 21.24  | 21.15   |
| 20                                     | 1       | 0         | QPSK   | 23.18  | 23.20  | 23.16   |
| 20                                     | 1       | 49        |        | 22.91  | 22.98  | 22.95   |
| 20                                     | 1       | 99        |        | 22.62  | 22.76  | 22.66   |
| 20                                     | 50      | 0         |        | 22.37  | 22.52  | 22.38   |
| 20                                     | 50      | 24        |        | 22.09  | 22.29  | 22.14   |
| 20                                     | 50      | 49        |        | 21.80  | 22.00  | 21.90   |
| 20                                     | 100     | 0         |        | 21.50  | 21.78  | 21.65   |
| 20                                     | 1       | 0         | 16-QAM | 22.88  | 22.93  | 22.87   |
| 20                                     | 1       | 49        |        | 22.62  | 22.68  | 22.63   |
| 20                                     | 1       | 99        |        | 22.36  | 22.43  | 22.42   |
| 20                                     | 50      | 0         |        | 22.12  | 22.20  | 22.15   |
| 20                                     | 50      | 24        |        | 21.87  | 21.92  | 21.94   |
| 20                                     | 50      | 49        |        | 21.58  | 21.64  | 21.73   |
| 20                                     | 100     | 0         |        | 21.35  | 21.42  | 21.53   |



| LTE Band 4 Maximum Average Power [dBm] |         |           |        |        |        |         |
|----------------------------------------|---------|-----------|--------|--------|--------|---------|
| BW [MHz]                               | RB Size | RB Offset | Mod    | Lowest | Middle | Highest |
| 1.4                                    | 1       | 0         | QPSK   | 23.41  | 23.36  | 23.42   |
| 1.4                                    | 1       | 2         |        | 23.17  | 23.13  | 23.20   |
| 1.4                                    | 1       | 5         |        | 22.89  | 22.87  | 22.94   |
| 1.4                                    | 3       | 0         |        | 22.62  | 22.57  | 22.71   |
| 1.4                                    | 3       | 1         |        | 22.36  | 22.33  | 22.45   |
| 1.4                                    | 3       | 2         |        | 22.14  | 22.05  | 22.16   |
| 1.4                                    | 6       | 0         |        | 21.93  | 21.82  | 21.92   |
| 1.4                                    | 1       | 0         | 16-QAM | 23.20  | 23.09  | 23.16   |
| 1.4                                    | 1       | 2         |        | 22.93  | 22.86  | 22.91   |
| 1.4                                    | 1       | 5         |        | 22.67  | 22.59  | 22.67   |
| 1.4                                    | 3       | 0         |        | 22.39  | 22.36  | 22.41   |
| 1.4                                    | 3       | 1         |        | 22.16  | 22.12  | 22.12   |
| 1.4                                    | 3       | 2         |        | 21.93  | 21.91  | 21.87   |
| 1.4                                    | 6       | 0         |        | 21.70  | 21.65  | 21.57   |
| 3                                      | 1       | 0         | QPSK   | 23.40  | 23.52  | 23.49   |
| 3                                      | 1       | 7         |        | 23.12  | 23.29  | 23.24   |
| 3                                      | 1       | 14        |        | 22.84  | 23.06  | 22.98   |
| 3                                      | 8       | 0         |        | 22.61  | 22.86  | 22.72   |
| 3                                      | 8       | 4         |        | 22.31  | 22.61  | 22.52   |
| 3                                      | 8       | 7         |        | 22.05  | 22.33  | 22.28   |
| 3                                      | 15      | 0         |        | 21.77  | 22.05  | 22.02   |
| 3                                      | 1       | 0         | 16-QAM | 23.13  | 23.32  | 23.25   |
| 3                                      | 1       | 7         |        | 22.88  | 23.03  | 23.04   |
| 3                                      | 1       | 14        |        | 22.62  | 22.74  | 22.81   |
| 3                                      | 8       | 0         |        | 22.33  | 22.49  | 22.61   |
| 3                                      | 8       | 4         |        | 22.10  | 22.21  | 22.39   |
| 3                                      | 8       | 7         |        | 21.81  | 21.97  | 22.12   |
| 3                                      | 15      | 0         |        | 21.56  | 21.68  | 21.89   |



| LTE Band 4 Maximum Average Power [dBm] |         |           |        |        |        |         |
|----------------------------------------|---------|-----------|--------|--------|--------|---------|
| BW [MHz]                               | RB Size | RB Offset | Mod    | Lowest | Middle | Highest |
| 5                                      | 1       | 0         | QPSK   | 23.38  | 23.43  | 23.40   |
| 5                                      | 1       | 12        |        | 23.18  | 23.20  | 23.14   |
| 5                                      | 1       | 24        |        | 22.91  | 22.99  | 22.90   |
| 5                                      | 12      | 0         |        | 22.66  | 22.79  | 22.68   |
| 5                                      | 12      | 6         |        | 22.38  | 22.49  | 22.39   |
| 5                                      | 12      | 11        |        | 22.08  | 22.25  | 22.12   |
| 5                                      | 25      | 0         |        | 21.80  | 21.98  | 21.89   |
| 5                                      | 1       | 0         | 16-QAM | 23.14  | 23.22  | 23.14   |
| 5                                      | 1       | 12        |        | 22.89  | 22.98  | 22.86   |
| 5                                      | 1       | 24        |        | 22.60  | 22.77  | 22.59   |
| 5                                      | 12      | 0         |        | 22.40  | 22.48  | 22.36   |
| 5                                      | 12      | 6         |        | 22.11  | 22.22  | 22.07   |
| 5                                      | 12      | 11        |        | 21.89  | 22.02  | 21.87   |
| 5                                      | 25      | 0         |        | 21.65  | 21.75  | 21.65   |
| 10                                     | 1       | 0         | QPSK   | 23.49  | 23.44  | 23.33   |
| 10                                     | 1       | 24        |        | 23.23  | 23.22  | 23.10   |
| 10                                     | 1       | 49        |        | 22.95  | 22.99  | 22.84   |
| 10                                     | 25      | 0         |        | 22.67  | 22.70  | 22.60   |
| 10                                     | 25      | 12        |        | 22.40  | 22.45  | 22.34   |
| 10                                     | 25      | 24        |        | 22.16  | 22.15  | 22.13   |
| 10                                     | 50      | 0         |        | 21.94  | 21.95  | 21.85   |
| 10                                     | 1       | 0         | 16-QAM | 23.20  | 23.15  | 23.11   |
| 10                                     | 1       | 24        |        | 22.94  | 22.86  | 22.83   |
| 10                                     | 1       | 49        |        | 22.72  | 22.62  | 22.58   |
| 10                                     | 25      | 0         |        | 22.46  | 22.37  | 22.37   |
| 10                                     | 25      | 12        |        | 22.23  | 22.07  | 22.13   |
| 10                                     | 25      | 24        |        | 22.03  | 21.85  | 21.92   |
| 10                                     | 50      | 0         |        | 21.79  | 21.56  | 21.70   |



| LTE Band 4 Maximum Average Power [dBm] |         |           |        |        |        |         |
|----------------------------------------|---------|-----------|--------|--------|--------|---------|
| BW [MHz]                               | RB Size | RB Offset | Mod    | Lowest | Middle | Highest |
| 15                                     | 1       | 0         | QPSK   | 23.42  | 23.19  | 23.39   |
| 15                                     | 1       | 37        |        | 23.18  | 22.90  | 23.16   |
| 15                                     | 1       | 74        |        | 22.94  | 22.65  | 22.88   |
| 15                                     | 36      | 0         |        | 22.70  | 22.40  | 22.60   |
| 15                                     | 36      | 18        |        | 22.48  | 22.18  | 22.32   |
| 15                                     | 36      | 39        |        | 22.21  | 21.93  | 22.11   |
| 15                                     | 75      | 0         |        | 21.93  | 21.72  | 21.90   |
| 15                                     | 1       | 0         | 16-QAM | 23.15  | 22.95  | 23.18   |
| 15                                     | 1       | 38        |        | 22.89  | 22.66  | 22.93   |
| 15                                     | 1       | 75        |        | 22.69  | 22.38  | 22.69   |
| 15                                     | 36      | 0         |        | 22.45  | 22.10  | 22.45   |
| 15                                     | 36      | 18        |        | 22.18  | 21.81  | 22.18   |
| 15                                     | 36      | 39        |        | 21.94  | 21.59  | 21.97   |
| 15                                     | 75      | 0         |        | 21.73  | 21.32  | 21.73   |
| 20                                     | 1       | 0         | QPSK   | 23.62  | 23.59  | 23.67   |
| 20                                     | 1       | 49        |        | 23.33  | 23.34  | 23.45   |
| 20                                     | 1       | 99        |        | 23.03  | 23.04  | 23.23   |
| 20                                     | 50      | 0         |        | 22.78  | 22.83  | 22.99   |
| 20                                     | 50      | 24        |        | 22.58  | 22.57  | 22.73   |
| 20                                     | 50      | 49        |        | 22.36  | 22.35  | 22.45   |
| 20                                     | 100     | 0         |        | 22.14  | 22.11  | 22.21   |
| 20                                     | 1       | 0         | 16-QAM | 23.39  | 23.35  | 23.40   |
| 20                                     | 1       | 49        |        | 23.17  | 23.05  | 23.11   |
| 20                                     | 1       | 99        |        | 22.89  | 22.84  | 22.82   |
| 20                                     | 50      | 0         |        | 22.60  | 22.63  | 22.56   |
| 20                                     | 50      | 24        |        | 22.36  | 22.35  | 22.32   |
| 20                                     | 50      | 49        |        | 22.11  | 22.09  | 22.11   |
| 20                                     | 100     | 0         |        | 21.88  | 21.80  | 21.82   |



| LTE Band 5 Maximum Average Power [dBm] |         |           |        |        |        |         |
|----------------------------------------|---------|-----------|--------|--------|--------|---------|
| BW [MHz]                               | RB Size | RB Offset | Mod    | Lowest | Middle | Highest |
| 1.4                                    | 1       | 0         | QPSK   | 24.92  | 24.97  | 25.06   |
| 1.4                                    | 1       | 2         |        | 24.67  | 24.73  | 24.86   |
| 1.4                                    | 1       | 5         |        | 24.40  | 24.49  | 24.66   |
| 1.4                                    | 3       | 0         |        | 24.14  | 24.23  | 24.38   |
| 1.4                                    | 3       | 1         |        | 23.88  | 23.93  | 24.15   |
| 1.4                                    | 3       | 2         |        | 23.58  | 23.71  | 23.88   |
| 1.4                                    | 6       | 0         |        | 23.37  | 23.48  | 23.60   |
| 1.4                                    | 1       | 0         | 16-QAM | 24.71  | 24.74  | 24.82   |
| 1.4                                    | 1       | 2         |        | 24.45  | 24.47  | 24.58   |
| 1.4                                    | 1       | 5         |        | 24.24  | 24.17  | 24.31   |
| 1.4                                    | 3       | 0         |        | 23.99  | 23.87  | 24.02   |
| 1.4                                    | 3       | 1         |        | 23.70  | 23.59  | 23.73   |
| 1.4                                    | 3       | 2         |        | 23.47  | 23.34  | 23.52   |
| 1.4                                    | 6       | 0         |        | 23.25  | 23.04  | 23.32   |
| 3                                      | 1       | 0         | QPSK   | 24.76  | 25.11  | 25.06   |
| 3                                      | 1       | 7         |        | 24.54  | 24.83  | 24.76   |
| 3                                      | 1       | 14        |        | 24.29  | 24.58  | 24.48   |
| 3                                      | 8       | 0         |        | 24.01  | 24.30  | 24.26   |
| 3                                      | 8       | 4         |        | 23.80  | 24.09  | 24.06   |
| 3                                      | 8       | 7         |        | 23.51  | 23.88  | 23.78   |
| 3                                      | 15      | 0         |        | 23.21  | 23.66  | 23.48   |
| 3                                      | 1       | 0         | 16-QAM | 24.52  | 24.81  | 24.81   |
| 3                                      | 1       | 7         |        | 24.29  | 24.56  | 24.57   |
| 3                                      | 1       | 14        |        | 24.08  | 24.35  | 24.33   |
| 3                                      | 8       | 0         |        | 23.79  | 24.06  | 24.11   |
| 3                                      | 8       | 4         |        | 23.50  | 23.83  | 23.84   |
| 3                                      | 8       | 7         |        | 23.20  | 23.61  | 23.55   |
| 3                                      | 15      | 0         |        | 23.00  | 23.33  | 23.32   |



| LTE Band 5 Maximum Average Power [dBm] |         |           |        |        |        |         |
|----------------------------------------|---------|-----------|--------|--------|--------|---------|
| BW [MHz]                               | RB Size | RB Offset | Mod    | Lowest | Middle | Highest |
| 5                                      | 1       | 0         | QPSK   | 25.04  | 24.99  | 25.18   |
| 5                                      | 1       | 12        |        | 24.77  | 24.71  | 24.90   |
| 5                                      | 1       | 24        |        | 24.51  | 24.47  | 24.60   |
| 5                                      | 12      | 0         |        | 24.29  | 24.27  | 24.37   |
| 5                                      | 12      | 6         |        | 24.05  | 24.06  | 24.15   |
| 5                                      | 12      | 11        |        | 23.77  | 23.83  | 23.94   |
| 5                                      | 25      | 0         |        | 23.50  | 23.58  | 23.70   |
| 5                                      | 1       | 0         | 16-QAM | 24.79  | 24.76  | 24.97   |
| 5                                      | 1       | 12        |        | 24.51  | 24.49  | 24.68   |
| 5                                      | 1       | 24        |        | 24.30  | 24.24  | 24.39   |
| 5                                      | 12      | 0         |        | 24.07  | 23.95  | 24.16   |
| 5                                      | 12      | 6         |        | 23.83  | 23.68  | 23.92   |
| 5                                      | 12      | 11        |        | 23.59  | 23.42  | 23.71   |
| 5                                      | 25      | 0         |        | 23.34  | 23.20  | 23.43   |
| 10                                     | 1       | 0         | QPSK   | 25.26  | 25.30  | 25.28   |
| 10                                     | 1       | 24        |        | 24.97  | 25.02  | 24.98   |
| 10                                     | 1       | 49        |        | 24.77  | 24.79  | 24.73   |
| 10                                     | 25      | 0         |        | 24.54  | 24.56  | 24.49   |
| 10                                     | 25      | 12        |        | 24.27  | 24.28  | 24.23   |
| 10                                     | 25      | 24        |        | 24.01  | 24.01  | 23.95   |
| 10                                     | 50      | 0         |        | 23.76  | 23.75  | 23.70   |
| 10                                     | 1       | 0         | 16-QAM | 25.00  | 25.02  | 24.99   |
| 10                                     | 1       | 24        |        | 24.80  | 24.72  | 24.69   |
| 10                                     | 1       | 49        |        | 24.55  | 24.46  | 24.49   |
| 10                                     | 25      | 0         |        | 24.27  | 24.18  | 24.19   |
| 10                                     | 25      | 12        |        | 24.06  | 23.93  | 23.92   |
| 10                                     | 25      | 24        |        | 23.82  | 23.68  | 23.70   |
| 10                                     | 50      | 0         |        | 23.54  | 23.48  | 23.44   |



| LTE Band 12 Maximum Average Power [dBm] |         |           |        |        |        |         |
|-----------------------------------------|---------|-----------|--------|--------|--------|---------|
| BW [MHz]                                | RB Size | RB Offset | Mod    | Lowest | Middle | Highest |
| 1.4                                     | 1       | 0         | QPSK   | 24.07  | 24.25  | 24.16   |
| 1.4                                     | 1       | 2         |        | 23.87  | 23.98  | 23.89   |
| 1.4                                     | 1       | 5         |        | 23.60  | 23.72  | 23.66   |
| 1.4                                     | 3       | 0         |        | 23.38  | 23.45  | 23.45   |
| 1.4                                     | 3       | 1         |        | 23.13  | 23.18  | 23.19   |
| 1.4                                     | 3       | 2         |        | 22.86  | 22.92  | 22.91   |
| 1.4                                     | 6       | 0         |        | 22.62  | 22.66  | 22.69   |
| 1.4                                     | 1       | 0         | 16-QAM | 23.83  | 24.03  | 23.87   |
| 1.4                                     | 1       | 2         |        | 23.62  | 23.81  | 23.65   |
| 1.4                                     | 1       | 5         |        | 23.33  | 23.55  | 23.43   |
| 1.4                                     | 3       | 0         |        | 23.09  | 23.30  | 23.23   |
| 1.4                                     | 3       | 1         |        | 22.82  | 23.03  | 22.95   |
| 1.4                                     | 3       | 2         |        | 22.59  | 22.73  | 22.67   |
| 1.4                                     | 6       | 0         |        | 22.36  | 22.43  | 22.46   |
| 3                                       | 1       | 0         | QPSK   | 23.85  | 23.92  | 24.01   |
| 3                                       | 1       | 7         |        | 23.60  | 23.67  | 23.73   |
| 3                                       | 1       | 14        |        | 23.39  | 23.40  | 23.48   |
| 3                                       | 8       | 0         |        | 23.12  | 23.19  | 23.24   |
| 3                                       | 8       | 4         |        | 22.91  | 22.99  | 23.03   |
| 3                                       | 8       | 7         |        | 22.70  | 22.74  | 22.81   |
| 3                                       | 15      | 0         |        | 22.44  | 22.53  | 22.59   |
| 3                                       | 1       | 0         | 16-QAM | 23.62  | 23.65  | 23.77   |
| 3                                       | 1       | 7         |        | 23.40  | 23.40  | 23.56   |
| 3                                       | 1       | 14        |        | 23.10  | 23.12  | 23.35   |
| 3                                       | 8       | 0         |        | 22.85  | 22.84  | 23.09   |
| 3                                       | 8       | 4         |        | 22.62  | 22.63  | 22.83   |
| 3                                       | 8       | 7         |        | 22.34  | 22.37  | 22.60   |
| 3                                       | 15      | 0         |        | 22.04  | 22.09  | 22.32   |



| LTE Band 12 Maximum Average Power [dBm] |         |           |        |        |        |         |
|-----------------------------------------|---------|-----------|--------|--------|--------|---------|
| BW [MHz]                                | RB Size | RB Offset | Mod    | Lowest | Middle | Highest |
| 5                                       | 1       | 0         | QPSK   | 24.22  | 24.03  | 23.97   |
| 5                                       | 1       | 12        |        | 23.93  | 23.76  | 23.76   |
| 5                                       | 1       | 24        |        | 23.71  | 23.50  | 23.55   |
| 5                                       | 12      | 0         |        | 23.47  | 23.25  | 23.33   |
| 5                                       | 12      | 6         |        | 23.20  | 23.05  | 23.07   |
| 5                                       | 12      | 11        |        | 22.91  | 22.83  | 22.83   |
| 5                                       | 25      | 0         |        | 22.64  | 22.59  | 22.56   |
| 5                                       | 1       | 0         | 16-QAM | 24.01  | 23.82  | 23.73   |
| 5                                       | 1       | 12        |        | 23.76  | 23.59  | 23.49   |
| 5                                       | 1       | 24        |        | 23.52  | 23.36  | 23.25   |
| 5                                       | 12      | 0         |        | 23.25  | 23.10  | 22.99   |
| 5                                       | 12      | 6         |        | 22.95  | 22.84  | 22.71   |
| 5                                       | 12      | 11        |        | 22.68  | 22.62  | 22.41   |
| 5                                       | 25      | 0         |        | 22.42  | 22.41  | 22.13   |
| 10                                      | 1       | 0         | QPSK   | 24.31  | 24.25  | 24.35   |
| 10                                      | 1       | 24        |        | 24.10  | 23.98  | 24.09   |
| 10                                      | 1       | 49        |        | 23.81  | 23.74  | 23.83   |
| 10                                      | 25      | 0         |        | 23.58  | 23.49  | 23.57   |
| 10                                      | 25      | 12        |        | 23.37  | 23.22  | 23.33   |
| 10                                      | 25      | 24        |        | 23.10  | 23.02  | 23.12   |
| 10                                      | 50      | 0         |        | 22.88  | 22.79  | 22.87   |
| 10                                      | 1       | 0         | 16-QAM | 24.10  | 24.00  | 24.13   |
| 10                                      | 1       | 24        |        | 23.89  | 23.71  | 23.92   |
| 10                                      | 1       | 49        |        | 23.63  | 23.49  | 23.64   |
| 10                                      | 25      | 0         |        | 23.35  | 23.24  | 23.42   |
| 10                                      | 25      | 12        |        | 23.07  | 23.04  | 23.16   |
| 10                                      | 25      | 24        |        | 22.81  | 22.82  | 22.88   |
| 10                                      | 50      | 0         |        | 22.53  | 22.62  | 22.59   |



| LTE Band 13 Maximum Average Power [dBm] |         |           |        |        |        |         |
|-----------------------------------------|---------|-----------|--------|--------|--------|---------|
| BW [MHz]                                | RB Size | RB Offset | Mod    | Lowest | Middle | Highest |
| 5                                       | 1       | 0         | QPSK   | 21.36  | 21.41  | 21.46   |
| 5                                       | 1       | 12        |        | 21.14  | 21.21  | 21.18   |
| 5                                       | 1       | 24        |        | 20.89  | 20.94  | 20.91   |
| 5                                       | 12      | 0         |        | 20.67  | 20.66  | 20.67   |
| 5                                       | 12      | 6         |        | 20.43  | 20.44  | 20.46   |
| 5                                       | 12      | 11        |        | 20.21  | 20.14  | 20.17   |
| 5                                       | 25      | 0         |        | 19.92  | 19.86  | 19.89   |
| 5                                       | 1       | 0         | 16-QAM | 21.07  | 21.19  | 21.19   |
| 5                                       | 1       | 12        |        | 20.81  | 20.91  | 20.89   |
| 5                                       | 1       | 24        |        | 20.52  | 20.71  | 20.62   |
| 5                                       | 12      | 0         |        | 20.30  | 20.45  | 20.33   |
| 5                                       | 12      | 6         |        | 20.04  | 20.18  | 20.09   |
| 5                                       | 12      | 11        |        | 19.76  | 19.95  | 19.79   |
| 5                                       | 25      | 0         |        | 19.50  | 19.75  | 19.58   |
| 10                                      | 1       | 0         | QPSK   | N/A    | 22.06  | N/A     |
| 10                                      | 1       | 24        |        | N/A    | 21.80  | N/A     |
| 10                                      | 1       | 49        |        | N/A    | 21.60  | N/A     |
| 10                                      | 25      | 0         |        | N/A    | 21.34  | N/A     |
| 10                                      | 25      | 12        |        | N/A    | 21.12  | N/A     |
| 10                                      | 25      | 24        |        | N/A    | 20.84  | N/A     |
| 10                                      | 50      | 0         |        | N/A    | 20.59  | N/A     |
| 10                                      | 1       | 0         | 16-QAM | N/A    | 21.85  | N/A     |
| 10                                      | 1       | 24        |        | N/A    | 21.60  | N/A     |
| 10                                      | 1       | 49        |        | N/A    | 21.35  | N/A     |
| 10                                      | 25      | 0         |        | N/A    | 21.10  | N/A     |
| 10                                      | 25      | 12        |        | N/A    | 20.86  | N/A     |
| 10                                      | 25      | 24        |        | N/A    | 20.61  | N/A     |
| 10                                      | 50      | 0         |        | N/A    | 20.35  | N/A     |



| LTE Band 25 Maximum Average Power [dBm] |         |           |        |        |        |         |
|-----------------------------------------|---------|-----------|--------|--------|--------|---------|
| BW [MHz]                                | RB Size | RB Offset | Mod    | Lowest | Middle | Highest |
| 1.4                                     | 1       | 0         | QPSK   | 23.16  | 23.05  | 23.20   |
| 1.4                                     | 1       | 2         |        | 22.91  | 22.78  | 22.98   |
| 1.4                                     | 1       | 5         |        | 22.68  | 22.52  | 22.73   |
| 1.4                                     | 3       | 0         |        | 22.45  | 22.32  | 22.46   |
| 1.4                                     | 3       | 1         |        | 22.22  | 22.02  | 22.23   |
| 1.4                                     | 3       | 2         |        | 22.01  | 21.78  | 22.00   |
| 1.4                                     | 6       | 0         |        | 21.75  | 21.49  | 21.75   |
| 1.4                                     | 1       | 0         | 16-QAM | 22.88  | 22.79  | 22.97   |
| 1.4                                     | 1       | 2         |        | 22.63  | 22.52  | 22.71   |
| 1.4                                     | 1       | 5         |        | 22.37  | 22.23  | 22.41   |
| 1.4                                     | 3       | 0         |        | 22.15  | 21.98  | 22.18   |
| 1.4                                     | 3       | 1         |        | 21.85  | 21.72  | 21.96   |
| 1.4                                     | 3       | 2         |        | 21.59  | 21.52  | 21.74   |
| 1.4                                     | 6       | 0         |        | 21.34  | 21.30  | 21.44   |
| 3                                       | 1       | 0         | QPSK   | 22.85  | 22.91  | 23.03   |
| 3                                       | 1       | 7         |        | 22.64  | 22.69  | 22.83   |
| 3                                       | 1       | 14        |        | 22.40  | 22.44  | 22.55   |
| 3                                       | 8       | 0         |        | 22.19  | 22.16  | 22.28   |
| 3                                       | 8       | 4         |        | 21.95  | 21.95  | 22.06   |
| 3                                       | 8       | 7         |        | 21.72  | 21.68  | 21.77   |
| 3                                       | 15      | 0         |        | 21.50  | 21.38  | 21.49   |
| 3                                       | 1       | 0         | 16-QAM | 22.62  | 22.63  | 22.76   |
| 3                                       | 1       | 7         |        | 22.34  | 22.35  | 22.49   |
| 3                                       | 1       | 14        |        | 22.06  | 22.09  | 22.20   |
| 3                                       | 8       | 0         |        | 21.77  | 21.79  | 22.00   |
| 3                                       | 8       | 4         |        | 21.54  | 21.53  | 21.71   |
| 3                                       | 8       | 7         |        | 21.25  | 21.24  | 21.50   |
| 3                                       | 15      | 0         |        | 21.01  | 20.98  | 21.24   |



| LTE Band 25 Maximum Average Power [dBm] |         |           |        |        |        |         |
|-----------------------------------------|---------|-----------|--------|--------|--------|---------|
| BW [MHz]                                | RB Size | RB Offset | Mod    | Lowest | Middle | Highest |
| 5                                       | 1       | 0         | QPSK   | 22.71  | 22.80  | 22.84   |
| 5                                       | 1       | 12        |        | 22.49  | 22.55  | 22.62   |
| 5                                       | 1       | 24        |        | 22.25  | 22.31  | 22.38   |
| 5                                       | 12      | 0         |        | 21.97  | 22.02  | 22.15   |
| 5                                       | 12      | 6         |        | 21.68  | 21.79  | 21.91   |
| 5                                       | 12      | 11        |        | 21.40  | 21.52  | 21.66   |
| 5                                       | 25      | 0         |        | 21.18  | 21.29  | 21.36   |
| 5                                       | 1       | 0         | 16-QAM | 22.46  | 22.59  | 22.58   |
| 5                                       | 1       | 12        |        | 22.20  | 22.38  | 22.32   |
| 5                                       | 1       | 24        |        | 21.96  | 22.17  | 22.09   |
| 5                                       | 12      | 0         |        | 21.67  | 21.87  | 21.86   |
| 5                                       | 12      | 6         |        | 21.44  | 21.62  | 21.64   |
| 5                                       | 12      | 11        |        | 21.16  | 21.35  | 21.40   |
| 5                                       | 25      | 0         |        | 20.93  | 21.07  | 21.17   |
| 10                                      | 1       | 0         | QPSK   | 23.18  | 23.05  | 23.16   |
| 10                                      | 1       | 24        |        | 22.94  | 22.83  | 22.94   |
| 10                                      | 1       | 49        |        | 22.71  | 22.57  | 22.71   |
| 10                                      | 25      | 0         |        | 22.45  | 22.30  | 22.42   |
| 10                                      | 25      | 12        |        | 22.20  | 22.07  | 22.16   |
| 10                                      | 25      | 24        |        | 21.94  | 21.79  | 21.92   |
| 10                                      | 50      | 0         |        | 21.73  | 21.58  | 21.66   |
| 10                                      | 1       | 0         | 16-QAM | 22.94  | 22.75  | 22.93   |
| 10                                      | 1       | 24        |        | 22.71  | 22.52  | 22.73   |
| 10                                      | 1       | 49        |        | 22.50  | 22.31  | 22.47   |
| 10                                      | 25      | 0         |        | 22.28  | 22.07  | 22.17   |
| 10                                      | 25      | 12        |        | 22.05  | 21.86  | 21.93   |
| 10                                      | 25      | 24        |        | 21.82  | 21.60  | 21.71   |
| 10                                      | 50      | 0         |        | 21.52  | 21.32  | 21.47   |



| LTE Band 25 Maximum Average Power [dBm] |         |           |        |        |        |         |
|-----------------------------------------|---------|-----------|--------|--------|--------|---------|
| BW [MHz]                                | RB Size | RB Offset | Mod    | Lowest | Middle | Highest |
| 15                                      | 1       | 0         | QPSK   | 23.06  | 23.17  | 23.22   |
| 15                                      | 1       | 37        |        | 22.82  | 22.92  | 22.93   |
| 15                                      | 1       | 74        |        | 22.52  | 22.68  | 22.67   |
| 15                                      | 36      | 0         |        | 22.29  | 22.43  | 22.39   |
| 15                                      | 36      | 18        |        | 22.07  | 22.20  | 22.18   |
| 15                                      | 36      | 39        |        | 21.83  | 21.95  | 21.95   |
| 15                                      | 75      | 0         |        | 21.57  | 21.69  | 21.65   |
| 15                                      | 1       | 0         | 16-QAM | 22.79  | 22.94  | 22.99   |
| 15                                      | 1       | 38        |        | 22.52  | 22.66  | 22.70   |
| 15                                      | 1       | 75        |        | 22.25  | 22.44  | 22.45   |
| 15                                      | 36      | 0         |        | 22.03  | 22.16  | 22.21   |
| 15                                      | 36      | 18        |        | 21.81  | 21.89  | 21.99   |
| 15                                      | 36      | 39        |        | 21.52  | 21.62  | 21.70   |
| 15                                      | 75      | 0         |        | 21.25  | 21.41  | 21.47   |
| 20                                      | 1       | 0         | QPSK   | 23.35  | 23.40  | 23.46   |
| 20                                      | 1       | 49        |        | 23.07  | 23.16  | 23.21   |
| 20                                      | 1       | 99        |        | 22.82  | 22.87  | 22.98   |
| 20                                      | 50      | 0         |        | 22.62  | 22.65  | 22.75   |
| 20                                      | 50      | 24        |        | 22.34  | 22.42  | 22.49   |
| 20                                      | 50      | 49        |        | 22.13  | 22.12  | 22.24   |
| 20                                      | 100     | 0         |        | 21.85  | 21.88  | 22.03   |
| 20                                      | 1       | 0         | 16-QAM | 23.06  | 23.12  | 23.26   |
| 20                                      | 1       | 49        |        | 22.83  | 22.88  | 23.02   |
| 20                                      | 1       | 99        |        | 22.62  | 22.61  | 22.73   |
| 20                                      | 50      | 0         |        | 22.33  | 22.41  | 22.51   |
| 20                                      | 50      | 24        |        | 22.06  | 22.14  | 22.26   |
| 20                                      | 50      | 49        |        | 21.83  | 21.85  | 22.02   |
| 20                                      | 100     | 0         |        | 21.55  | 21.63  | 21.76   |



| LTE Band 26(Part 22) Maximum Average Power [dBm] |         |           |        |        |        |         |
|--------------------------------------------------|---------|-----------|--------|--------|--------|---------|
| BW [MHz]                                         | RB Size | RB Offset | Mod    | Lowest | Middle | Highest |
| 1.4                                              | 1       | 0         | QPSK   | 23.77  | 23.69  | 23.81   |
| 1.4                                              | 1       | 2         |        | 23.50  | 23.44  | 23.53   |
| 1.4                                              | 1       | 5         |        | 23.22  | 23.20  | 23.31   |
| 1.4                                              | 3       | 0         |        | 22.97  | 23.00  | 23.02   |
| 1.4                                              | 3       | 1         |        | 22.72  | 22.77  | 22.75   |
| 1.4                                              | 3       | 2         |        | 22.52  | 22.53  | 22.51   |
| 1.4                                              | 6       | 0         |        | 22.29  | 22.28  | 22.30   |
| 1.4                                              | 1       | 0         | 16-QAM | 23.47  | 23.48  | 23.59   |
| 1.4                                              | 1       | 2         |        | 23.22  | 23.27  | 23.36   |
| 1.4                                              | 1       | 5         |        | 22.99  | 23.04  | 23.09   |
| 1.4                                              | 3       | 0         |        | 22.78  | 22.76  | 22.88   |
| 1.4                                              | 3       | 1         |        | 22.52  | 22.50  | 22.59   |
| 1.4                                              | 3       | 2         |        | 22.32  | 22.22  | 22.29   |
| 1.4                                              | 6       | 0         |        | 22.06  | 22.01  | 22.06   |
| 3                                                | 1       | 0         | QPSK   | 23.35  | 23.42  | 23.60   |
| 3                                                | 1       | 7         |        | 23.15  | 23.13  | 23.31   |
| 3                                                | 1       | 14        |        | 22.86  | 22.88  | 23.03   |
| 3                                                | 8       | 0         |        | 22.61  | 22.68  | 22.79   |
| 3                                                | 8       | 4         |        | 22.39  | 22.39  | 22.57   |
| 3                                                | 8       | 7         |        | 22.10  | 22.10  | 22.31   |
| 3                                                | 15      | 0         |        | 21.81  | 21.88  | 22.02   |
| 3                                                | 1       | 0         | 16-QAM | 23.14  | 23.22  | 23.35   |
| 3                                                | 1       | 7         |        | 22.86  | 22.99  | 23.11   |
| 3                                                | 1       | 14        |        | 22.65  | 22.69  | 22.84   |
| 3                                                | 8       | 0         |        | 22.39  | 22.44  | 22.57   |
| 3                                                | 8       | 4         |        | 22.11  | 22.16  | 22.28   |
| 3                                                | 8       | 7         |        | 21.87  | 21.90  | 22.04   |
| 3                                                | 15      | 0         |        | 21.58  | 21.69  | 21.77   |



| LTE Band 26(Part 22) Maximum Average Power [dBm] |         |           |        |        |        |         |
|--------------------------------------------------|---------|-----------|--------|--------|--------|---------|
| BW [MHz]                                         | RB Size | RB Offset | Mod    | Lowest | Middle | Highest |
| 5                                                | 1       | 0         | QPSK   | 23.54  | 23.67  | 23.69   |
| 5                                                | 1       | 12        |        | 23.27  | 23.39  | 23.47   |
| 5                                                | 1       | 24        |        | 23.03  | 23.18  | 23.25   |
| 5                                                | 12      | 0         |        | 22.76  | 22.92  | 23.00   |
| 5                                                | 12      | 6         |        | 22.49  | 22.69  | 22.75   |
| 5                                                | 12      | 11        |        | 22.21  | 22.47  | 22.53   |
| 5                                                | 25      | 0         |        | 21.97  | 22.26  | 22.25   |
| 5                                                | 1       | 0         | 16-QAM | 23.31  | 23.45  | 23.46   |
| 5                                                | 1       | 12        |        | 23.04  | 23.21  | 23.21   |
| 5                                                | 1       | 24        |        | 22.82  | 22.97  | 22.92   |
| 5                                                | 12      | 0         |        | 22.55  | 22.73  | 22.68   |
| 5                                                | 12      | 6         |        | 22.26  | 22.52  | 22.45   |
| 5                                                | 12      | 11        |        | 21.99  | 22.30  | 22.20   |
| 5                                                | 25      | 0         |        | 21.71  | 22.01  | 21.92   |
| 10                                               | 1       | 0         | QPSK   | 23.37  | 23.38  | 23.13   |
| 10                                               | 1       | 24        |        | 23.14  | 23.09  | 22.90   |
| 10                                               | 1       | 49        |        | 22.88  | 22.87  | 22.64   |
| 10                                               | 25      | 0         |        | 22.67  | 22.65  | 22.41   |
| 10                                               | 25      | 12        |        | 22.43  | 22.40  | 22.18   |
| 10                                               | 25      | 24        |        | 22.15  | 22.11  | 21.91   |
| 10                                               | 50      | 0         |        | 21.92  | 21.84  | 21.63   |
| 10                                               | 1       | 0         | 16-QAM | 23.08  | 23.13  | 22.83   |
| 10                                               | 1       | 24        |        | 22.86  | 22.86  | 22.54   |
| 10                                               | 1       | 49        |        | 22.58  | 22.61  | 22.29   |
| 10                                               | 25      | 0         |        | 22.37  | 22.36  | 22.04   |
| 10                                               | 25      | 12        |        | 22.15  | 22.12  | 21.81   |
| 10                                               | 25      | 24        |        | 21.85  | 21.89  | 21.55   |
| 10                                               | 50      | 0         |        | 21.65  | 21.61  | 21.29   |

| LTE Band 26(Part 22) Maximum Average Power [dBm] |         |           |        |        |        |         |
|--------------------------------------------------|---------|-----------|--------|--------|--------|---------|
| BW [MHz]                                         | RB Size | RB Offset | Mod    | Lowest | Middle | Highest |
| 15                                               | 1       | 0         | QPSK   | 23.81  | 23.76  | 23.92   |
| 15                                               | 1       | 37        |        | 23.55  | 23.54  | 23.69   |
| 15                                               | 1       | 74        |        | 23.33  | 23.30  | 23.45   |
| 15                                               | 36      | 0         |        | 23.12  | 23.01  | 23.25   |
| 15                                               | 36      | 18        |        | 22.84  | 22.75  | 23.01   |
| 15                                               | 36      | 39        |        | 22.61  | 22.46  | 22.74   |
| 15                                               | 75      | 0         |        | 22.41  | 22.24  | 22.52   |
| 15                                               | 1       | 0         | 16-QAM | 23.52  | 23.55  | 23.65   |
| 15                                               | 1       | 38        |        | 23.25  | 23.28  | 23.45   |
| 15                                               | 1       | 75        |        | 23.00  | 22.98  | 23.22   |
| 15                                               | 36      | 0         |        | 22.76  | 22.77  | 23.01   |
| 15                                               | 36      | 18        |        | 22.49  | 22.54  | 22.72   |
| 15                                               | 36      | 39        |        | 22.21  | 22.31  | 22.47   |
| 15                                               | 75      | 0         |        | 21.97  | 22.06  | 22.20   |



| LTE Band 26(Part 90) Maximum Average Power [dBm] |         |           |        |        |        |         |
|--------------------------------------------------|---------|-----------|--------|--------|--------|---------|
| BW [MHz]                                         | RB Size | RB Offset | Mod    | Lowest | Middle | Highest |
| 1.4                                              | 1       | 0         | QPSK   | 23.91  | 23.86  | 23.88   |
| 1.4                                              | 1       | 2         |        | 23.66  | 23.57  | 23.63   |
| 1.4                                              | 1       | 5         |        | 23.44  | 23.27  | 23.37   |
| 1.4                                              | 3       | 0         |        | 23.15  | 22.99  | 23.15   |
| 1.4                                              | 3       | 1         |        | 22.89  | 22.74  | 22.89   |
| 1.4                                              | 3       | 2         |        | 22.63  | 22.51  | 22.67   |
| 1.4                                              | 6       | 0         |        | 22.40  | 22.23  | 22.46   |
| 1.4                                              | 1       | 0         | 16-QAM | 23.63  | 23.56  | 23.65   |
| 1.4                                              | 1       | 2         |        | 23.40  | 23.36  | 23.36   |
| 1.4                                              | 1       | 5         |        | 23.13  | 23.07  | 23.10   |
| 1.4                                              | 3       | 0         |        | 22.85  | 22.86  | 22.87   |
| 1.4                                              | 3       | 1         |        | 22.56  | 22.59  | 22.63   |
| 1.4                                              | 3       | 2         |        | 22.31  | 22.30  | 22.34   |
| 1.4                                              | 6       | 0         |        | 22.04  | 22.09  | 22.11   |
| 3                                                | 1       | 0         | QPSK   | 24.03  | 23.95  | 23.94   |
| 3                                                | 1       | 7         |        | 23.74  | 23.70  | 23.65   |
| 3                                                | 1       | 14        |        | 23.47  | 23.49  | 23.42   |
| 3                                                | 8       | 0         |        | 23.21  | 23.19  | 23.19   |
| 3                                                | 8       | 4         |        | 22.93  | 22.94  | 22.96   |
| 3                                                | 8       | 7         |        | 22.70  | 22.72  | 22.71   |
| 3                                                | 15      | 0         |        | 22.41  | 22.51  | 22.50   |
| 3                                                | 1       | 0         | 16-QAM | 23.82  | 23.75  | 23.68   |
| 3                                                | 1       | 7         |        | 23.59  | 23.53  | 23.40   |
| 3                                                | 1       | 14        |        | 23.35  | 23.28  | 23.15   |
| 3                                                | 8       | 0         |        | 23.08  | 23.07  | 22.87   |
| 3                                                | 8       | 4         |        | 22.82  | 22.86  | 22.63   |
| 3                                                | 8       | 7         |        | 22.54  | 22.61  | 22.36   |
| 3                                                | 15      | 0         |        | 22.26  | 22.34  | 22.09   |



| LTE Band 26(Part 90) Maximum Average Power [dBm] |         |           |        |        |        |         |
|--------------------------------------------------|---------|-----------|--------|--------|--------|---------|
| BW [MHz]                                         | RB Size | RB Offset | Mod    | Lowest | Middle | Highest |
| 5                                                | 1       | 0         | QPSK   | 24.04  | 23.94  | 23.97   |
| 5                                                | 1       | 12        |        | 23.79  | 23.69  | 23.74   |
| 5                                                | 1       | 24        |        | 23.53  | 23.40  | 23.47   |
| 5                                                | 12      | 0         |        | 23.30  | 23.19  | 23.20   |
| 5                                                | 12      | 6         |        | 23.09  | 22.90  | 22.95   |
| 5                                                | 12      | 11        |        | 22.86  | 22.67  | 22.69   |
| 5                                                | 25      | 0         |        | 22.60  | 22.46  | 22.49   |
| 5                                                | 1       | 0         | 16-QAM | 23.77  | 23.73  | 23.72   |
| 5                                                | 1       | 12        |        | 23.47  | 23.48  | 23.49   |
| 5                                                | 1       | 24        |        | 23.22  | 23.26  | 23.25   |
| 5                                                | 12      | 0         |        | 22.96  | 22.98  | 23.04   |
| 5                                                | 12      | 6         |        | 22.73  | 22.74  | 22.83   |
| 5                                                | 12      | 11        |        | 22.49  | 22.47  | 22.59   |
| 5                                                | 25      | 0         |        | 22.19  | 22.21  | 22.32   |
| 10                                               | 1       | 0         | QPSK   | N/A    | 24.16  | N/A     |
| 10                                               | 1       | 24        |        | N/A    | 23.87  | N/A     |
| 10                                               | 1       | 49        |        | N/A    | 23.60  | N/A     |
| 10                                               | 25      | 0         |        | N/A    | 23.36  | N/A     |
| 10                                               | 25      | 12        |        | N/A    | 23.11  | N/A     |
| 10                                               | 25      | 24        |        | N/A    | 22.87  | N/A     |
| 10                                               | 50      | 0         |        | N/A    | 22.62  | N/A     |
| 10                                               | 1       | 0         | 16-QAM | N/A    | 23.87  | N/A     |
| 10                                               | 1       | 24        |        | N/A    | 23.66  | N/A     |
| 10                                               | 1       | 49        |        | N/A    | 23.41  | N/A     |
| 10                                               | 25      | 0         |        | N/A    | 23.12  | N/A     |
| 10                                               | 25      | 12        |        | N/A    | 22.90  | N/A     |
| 10                                               | 25      | 24        |        | N/A    | 22.64  | N/A     |
| 10                                               | 50      | 0         |        | N/A    | 22.37  | N/A     |



| LTE Band 41 Maximum Average Power [dBm] |         |           |        |        |        |         |
|-----------------------------------------|---------|-----------|--------|--------|--------|---------|
| BW [MHz]                                | RB Size | RB Offset | Mod    | Lowest | Middle | Highest |
| 5                                       | 1       | 0         | QPSK   | 22.88  | 22.80  | 22.86   |
| 5                                       | 1       | 12        |        | 22.67  | 22.53  | 22.58   |
| 5                                       | 1       | 24        |        | 22.43  | 22.24  | 22.36   |
| 5                                       | 12      | 0         |        | 22.15  | 22.04  | 22.14   |
| 5                                       | 12      | 6         |        | 21.91  | 21.81  | 21.85   |
| 5                                       | 12      | 11        |        | 21.61  | 21.54  | 21.61   |
| 5                                       | 25      | 0         |        | 21.40  | 21.34  | 21.40   |
| 5                                       | 1       | 0         | 16-QAM | 22.61  | 22.56  | 22.64   |
| 5                                       | 1       | 12        |        | 22.32  | 22.34  | 22.34   |
| 5                                       | 1       | 24        |        | 22.07  | 22.06  | 22.12   |
| 5                                       | 12      | 0         |        | 21.81  | 21.78  | 21.90   |
| 5                                       | 12      | 6         |        | 21.51  | 21.49  | 21.65   |
| 5                                       | 12      | 11        |        | 21.26  | 21.29  | 21.43   |
| 5                                       | 25      | 0         |        | 21.01  | 20.99  | 21.14   |
| 10                                      | 1       | 0         | QPSK   | 22.76  | 22.83  | 22.91   |
| 10                                      | 1       | 24        |        | 22.53  | 22.59  | 22.68   |
| 10                                      | 1       | 49        |        | 22.32  | 22.34  | 22.43   |
| 10                                      | 25      | 0         |        | 22.10  | 22.05  | 22.23   |
| 10                                      | 25      | 12        |        | 21.88  | 21.81  | 21.96   |
| 10                                      | 25      | 24        |        | 21.64  | 21.54  | 21.75   |
| 10                                      | 50      | 0         |        | 21.38  | 21.33  | 21.49   |
| 10                                      | 1       | 0         | 16-QAM | 22.53  | 22.56  | 22.67   |
| 10                                      | 1       | 49        |        | 22.30  | 22.32  | 22.42   |
| 10                                      | 1       | 99        |        | 22.03  | 22.06  | 22.14   |
| 10                                      | 50      | 0         |        | 21.79  | 21.82  | 21.87   |
| 10                                      | 50      | 24        |        | 21.57  | 21.54  | 21.66   |
| 10                                      | 50      | 49        |        | 21.36  | 21.34  | 21.46   |
| 10                                      | 100     | 0         |        | 21.12  | 21.10  | 21.22   |



| LTE Band 41 Maximum Average Power [dBm] |         |           |        |        |        |         |
|-----------------------------------------|---------|-----------|--------|--------|--------|---------|
| BW [MHz]                                | RB Size | RB Offset | Mod    | Lowest | Middle | Highest |
| 15                                      | 1       | 0         | QPSK   | 22.81  | 22.76  | 22.90   |
| 15                                      | 1       | 37        |        | 22.60  | 22.49  | 22.68   |
| 15                                      | 1       | 74        |        | 22.40  | 22.26  | 22.46   |
| 15                                      | 36      | 0         |        | 22.18  | 22.00  | 22.24   |
| 15                                      | 36      | 18        |        | 21.89  | 21.73  | 21.99   |
| 15                                      | 36      | 39        |        | 21.62  | 21.50  | 21.75   |
| 15                                      | 75      | 0         |        | 21.40  | 21.25  | 21.54   |
| 15                                      | 1       | 0         | 16-QAM | 22.59  | 22.50  | 22.63   |
| 15                                      | 1       | 49        |        | 22.35  | 22.30  | 22.36   |
| 15                                      | 1       | 99        |        | 22.11  | 22.01  | 22.15   |
| 15                                      | 50      | 0         |        | 21.85  | 21.78  | 21.89   |
| 15                                      | 50      | 24        |        | 21.59  | 21.56  | 21.62   |
| 15                                      | 50      | 49        |        | 21.34  | 21.33  | 21.35   |
| 15                                      | 100     | 0         |        | 21.08  | 21.06  | 21.12   |
| 20                                      | 1       | 0         | QPSK   | 23.03  | 23.16  | 23.07   |
| 20                                      | 1       | 49        |        | 22.77  | 22.87  | 22.86   |
| 20                                      | 1       | 99        |        | 22.54  | 22.62  | 22.65   |
| 20                                      | 50      | 0         |        | 22.33  | 22.35  | 22.42   |
| 20                                      | 50      | 24        |        | 22.04  | 22.08  | 22.17   |
| 20                                      | 50      | 49        |        | 21.74  | 21.86  | 21.90   |
| 20                                      | 100     | 0         |        | 21.47  | 21.63  | 21.63   |
| 20                                      | 1       | 0         | 16-QAM | 22.74  | 22.93  | 22.79   |
| 20                                      | 1       | 49        |        | 22.45  | 22.72  | 22.57   |
| 20                                      | 1       | 99        |        | 22.17  | 22.44  | 22.29   |
| 20                                      | 50      | 0         |        | 21.95  | 22.15  | 22.09   |
| 20                                      | 50      | 24        |        | 21.71  | 21.89  | 21.84   |
| 20                                      | 50      | 49        |        | 21.50  | 21.67  | 21.62   |
| 20                                      | 100     | 0         |        | 21.28  | 21.42  | 21.38   |



| LTE Band 66 Maximum Average Power [dBm] |         |           |        |        |        |         |
|-----------------------------------------|---------|-----------|--------|--------|--------|---------|
| BW [MHz]                                | RB Size | RB Offset | Mod    | Lowest | Middle | Highest |
| 1.4                                     | 1       | 0         | QPSK   | 22.83  | 22.91  | 22.85   |
| 1.4                                     | 1       | 2         |        | 22.57  | 22.62  | 22.61   |
| 1.4                                     | 1       | 5         |        | 22.33  | 22.32  | 22.32   |
| 1.4                                     | 3       | 0         |        | 22.09  | 22.06  | 22.03   |
| 1.4                                     | 3       | 1         |        | 21.81  | 21.84  | 21.82   |
| 1.4                                     | 3       | 2         |        | 21.60  | 21.57  | 21.61   |
| 1.4                                     | 6       | 0         |        | 21.39  | 21.31  | 21.33   |
| 1.4                                     | 1       | 0         | 16-QAM | 22.63  | 22.67  | 22.59   |
| 1.4                                     | 1       | 2         |        | 22.34  | 22.47  | 22.32   |
| 1.4                                     | 1       | 5         |        | 22.09  | 22.21  | 22.06   |
| 1.4                                     | 3       | 0         |        | 21.80  | 21.98  | 21.80   |
| 1.4                                     | 3       | 1         |        | 21.52  | 21.76  | 21.56   |
| 1.4                                     | 3       | 2         |        | 21.26  | 21.51  | 21.31   |
| 1.4                                     | 6       | 0         |        | 20.98  | 21.25  | 21.03   |
| 3                                       | 1       | 0         | QPSK   | 22.65  | 22.68  | 22.70   |
| 3                                       | 1       | 7         |        | 22.40  | 22.46  | 22.46   |
| 3                                       | 1       | 14        |        | 22.16  | 22.21  | 22.19   |
| 3                                       | 8       | 0         |        | 21.94  | 21.93  | 21.97   |
| 3                                       | 8       | 4         |        | 21.65  | 21.70  | 21.75   |
| 3                                       | 8       | 7         |        | 21.40  | 21.45  | 21.45   |
| 3                                       | 15      | 0         |        | 21.13  | 21.25  | 21.16   |
| 3                                       | 1       | 0         | 16-QAM | 22.42  | 22.43  | 22.43   |
| 3                                       | 1       | 7         |        | 22.16  | 22.20  | 22.15   |
| 3                                       | 1       | 14        |        | 21.94  | 21.99  | 21.85   |
| 3                                       | 8       | 0         |        | 21.73  | 21.78  | 21.62   |
| 3                                       | 8       | 4         |        | 21.53  | 21.51  | 21.41   |
| 3                                       | 8       | 7         |        | 21.25  | 21.27  | 21.20   |
| 3                                       | 15      | 0         |        | 20.99  | 21.02  | 20.96   |



| LTE Band 66 Maximum Average Power [dBm] |         |           |        |        |        |         |
|-----------------------------------------|---------|-----------|--------|--------|--------|---------|
| BW [MHz]                                | RB Size | RB Offset | Mod    | Lowest | Middle | Highest |
| 5                                       | 1       | 0         | QPSK   | 22.71  | 22.69  | 22.63   |
| 5                                       | 1       | 12        |        | 22.49  | 22.40  | 22.36   |
| 5                                       | 1       | 24        |        | 22.29  | 22.10  | 22.14   |
| 5                                       | 12      | 0         |        | 22.08  | 21.87  | 21.90   |
| 5                                       | 12      | 6         |        | 21.83  | 21.64  | 21.66   |
| 5                                       | 12      | 11        |        | 21.56  | 21.38  | 21.41   |
| 5                                       | 25      | 0         |        | 21.34  | 21.08  | 21.15   |
| 5                                       | 1       | 0         | 16-QAM | 22.42  | 22.42  | 22.34   |
| 5                                       | 1       | 12        |        | 22.15  | 22.19  | 22.14   |
| 5                                       | 1       | 24        |        | 21.95  | 21.93  | 21.85   |
| 5                                       | 12      | 0         |        | 21.69  | 21.71  | 21.62   |
| 5                                       | 12      | 6         |        | 21.46  | 21.43  | 21.37   |
| 5                                       | 12      | 11        |        | 21.20  | 21.21  | 21.11   |
| 5                                       | 25      | 0         |        | 20.97  | 20.98  | 20.82   |
| 10                                      | 1       | 0         | QPSK   | 22.47  | 22.39  | 22.52   |
| 10                                      | 1       | 24        |        | 22.19  | 22.13  | 22.30   |
| 10                                      | 1       | 49        |        | 21.89  | 21.92  | 22.00   |
| 10                                      | 25      | 0         |        | 21.69  | 21.66  | 21.74   |
| 10                                      | 25      | 12        |        | 21.46  | 21.37  | 21.51   |
| 10                                      | 25      | 24        |        | 21.18  | 21.16  | 21.25   |
| 10                                      | 50      | 0         |        | 20.90  | 20.88  | 20.98   |
| 10                                      | 1       | 0         | 16-QAM | 22.23  | 22.15  | 22.27   |
| 10                                      | 1       | 24        |        | 22.02  | 21.87  | 22.04   |
| 10                                      | 1       | 49        |        | 21.81  | 21.66  | 21.82   |
| 10                                      | 25      | 0         |        | 21.57  | 21.36  | 21.59   |
| 10                                      | 25      | 12        |        | 21.29  | 21.16  | 21.30   |
| 10                                      | 25      | 24        |        | 21.00  | 20.90  | 21.06   |
| 10                                      | 50      | 0         |        | 20.78  | 20.65  | 20.78   |



| LTE Band 66 Maximum Average Power [dBm] |         |           |        |        |        |         |
|-----------------------------------------|---------|-----------|--------|--------|--------|---------|
| BW [MHz]                                | RB Size | RB Offset | Mod    | Lowest | Middle | Highest |
| 15                                      | 1       | 0         | QPSK   | 22.66  | 22.75  | 22.80   |
| 15                                      | 1       | 37        |        | 22.37  | 22.52  | 22.56   |
| 15                                      | 1       | 74        |        | 22.10  | 22.26  | 22.33   |
| 15                                      | 36      | 0         |        | 21.81  | 22.06  | 22.06   |
| 15                                      | 36      | 18        |        | 21.58  | 21.81  | 21.86   |
| 15                                      | 36      | 39        |        | 21.30  | 21.57  | 21.63   |
| 15                                      | 75      | 0         |        | 21.02  | 21.32  | 21.38   |
| 15                                      | 1       | 0         | 16-QAM | 22.38  | 22.49  | 22.52   |
| 15                                      | 1       | 38        |        | 22.14  | 22.23  | 22.27   |
| 15                                      | 1       | 75        |        | 21.94  | 22.00  | 22.01   |
| 15                                      | 36      | 0         |        | 21.64  | 21.72  | 21.76   |
| 15                                      | 36      | 18        |        | 21.35  | 21.49  | 21.48   |
| 15                                      | 36      | 39        |        | 21.09  | 21.22  | 21.27   |
| 15                                      | 75      | 0         |        | 20.81  | 20.94  | 21.00   |
| 20                                      | 1       | 0         | QPSK   | 22.95  | 23.08  | 22.96   |
| 20                                      | 1       | 49        |        | 22.73  | 22.82  | 22.67   |
| 20                                      | 1       | 99        |        | 22.52  | 22.59  | 22.47   |
| 20                                      | 50      | 0         |        | 22.28  | 22.32  | 22.19   |
| 20                                      | 50      | 24        |        | 22.03  | 22.05  | 21.97   |
| 20                                      | 50      | 49        |        | 21.74  | 21.79  | 21.70   |
| 20                                      | 100     | 0         |        | 21.51  | 21.58  | 21.46   |
| 20                                      | 1       | 0         | 16-QAM | 22.67  | 22.81  | 22.66   |
| 20                                      | 1       | 49        |        | 22.43  | 22.57  | 22.39   |
| 20                                      | 1       | 99        |        | 22.17  | 22.30  | 22.13   |
| 20                                      | 50      | 0         |        | 21.91  | 22.02  | 21.88   |
| 20                                      | 50      | 24        |        | 21.70  | 21.79  | 21.66   |
| 20                                      | 50      | 49        |        | 21.41  | 21.54  | 21.41   |
| 20                                      | 100     | 0         |        | 21.16  | 21.29  | 21.12   |

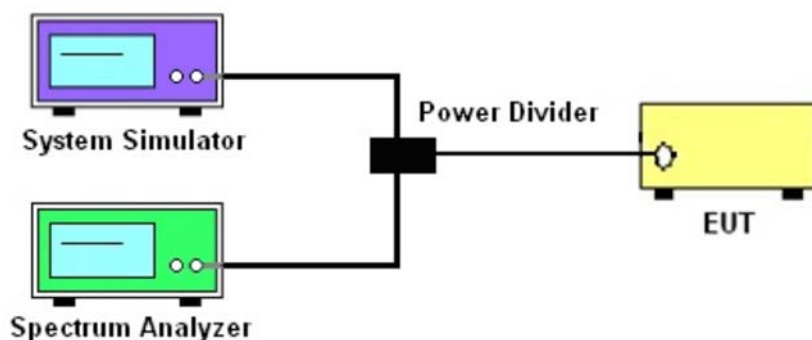
## 4. PEAK-TO-AVERAGE RATIO

### 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       | 5.17   | 4.8    | 4.4     |
| 20                   | 100     |            | 5.28   | 5.47   | 5.56    |
| 20                   | 1       | 16-QAM     | 5.93   | 5.69   | 5.08    |
| 20                   | 100     |            | 6.12   | 6.29   | 6.4     |
| Limit                |         |            | ≤13dB  |        |         |

| LTE Band 4 PAR [dBm] |         |            |        |        |         |
|----------------------|---------|------------|--------|--------|---------|
| BW [MHz]             | RB Size | Modulation | Lowest | Middle | Highest |
|                      |         |            | P-A    | P-A    | P-A     |
| 20                   | 1       | QPSK       | 4.48   | 4.81   | 4.61    |
| 20                   | 100     |            | 5.06   | 5.21   | 5.31    |
| 20                   | 1       | 16-QAM     | 5.49   | 5.61   | 5.47    |
| 20                   | 100     |            | 5.8    | 6.07   | 6.13    |
| Limit                |         |            | ≤13dB  |        |         |

| LTE Band 5 PAR [dBm] |         |            |        |        |         |
|----------------------|---------|------------|--------|--------|---------|
| BW [MHz]             | RB Size | Modulation | Lowest | Middle | Highest |
|                      |         |            | P-A    | P-A    | P-A     |
| 10                   | 1       | QPSK       | 4.1    | 4.92   | 3.94    |
| 10                   | 50      |            | 5.07   | 4.78   | 4.79    |
| 10                   | 1       | 16-QAM     | 5.03   | 5.54   | 4.91    |
| 10                   | 50      |            | 5.82   | 5.52   | 5.71    |
| Limit                |         |            | ≤13dB  |        |         |

| LTE Band 12 PAR [dBm] |         |            |        |        |         |
|-----------------------|---------|------------|--------|--------|---------|
| BW [MHz]              | RB Size | Modulation | Lowest | Middle | Highest |
|                       |         |            | P-A    | P-A    | P-A     |
| 10                    | 1       | QPSK       | 3.79   | 3.67   | 3.56    |
| 10                    | 50      |            | 5.28   | 5.55   | 5.16    |
| 10                    | 1       | 16-QAM     | 4.68   | 4.53   | 4.6     |
| 10                    | 50      |            | 5.96   | 6.07   | 5.92    |
| Limit                 |         |            | ≤13dB  |        |         |

| LTE Band 13 PAR [dBm] |         |            |        |
|-----------------------|---------|------------|--------|
| BW [MHz]              | RB Size | Modulation | Middle |
|                       |         |            | P-A    |
| 10                    | 1       | QPSK       | 4.53   |
| 10                    | 50      |            | 5.74   |
| 10                    | 1       | 16-QAM     | 5.42   |
| 10                    | 50      |            | 6.56   |
| Limit                 |         |            | ≤13dB  |



| LTE Band 25 PAR [dBm] |         |            |        |        |         |
|-----------------------|---------|------------|--------|--------|---------|
| BW [MHz]              | RB Size | Modulation | Lowest | Middle | Highest |
|                       |         |            | P-A    | P-A    | P-A     |
| 20                    | 1       | QPSK       | 5.11   | 4.75   | 4.83    |
| 20                    | 100     |            | 5.34   | 5.19   | 5.15    |
| 20                    | 1       | 16-QAM     | 6.58   | 5.75   | 5.58    |
| 20                    | 100     |            | 6.16   | 6.23   | 6.19    |
| Limit                 |         |            | ≤13dB  |        |         |

| LTE Band 26(Part 22) PAR [dBm] |         |            |        |        |         |
|--------------------------------|---------|------------|--------|--------|---------|
| BW [MHz]                       | RB Size | Modulation | Lowest | Middle | Highest |
|                                |         |            | P-A    | P-A    | P-A     |
| 15                             | 1       | QPSK       | 4.85   | 4.73   | 5.19    |
| 15                             | 75      |            | 3.35   | 3.63   | 3.3     |
| 15                             | 1       | 16-QAM     | 4.04   | 4.49   | 3.72    |
| 15                             | 75      |            | 5.27   | 5.41   | 5.56    |
| Limit                          |         |            | ≤13dB  |        |         |

| LTE Band 26(Part 90) PAR [dBm] |         |            |        |
|--------------------------------|---------|------------|--------|
| BW [MHz]                       | RB Size | Modulation | Middle |
|                                |         |            | P-A    |
| 10                             | 1       | QPSK       | 3.64   |
| 10                             | 50      |            | 4.64   |
| 10                             | 1       | 16-QAM     | 4.4    |
| 10                             | 50      |            | 5.56   |
| Limit                          |         |            | ≤13dB  |

| LTE Band 41PAR [dBm] |     |  |        |        |         |
|----------------------|-----|--|--------|--------|---------|
|                      |     |  | Lowest | Middle | Highest |
|                      |     |  | P-A    | P-A    | P-A     |
| 20                   | 1   |  | 3.62   | 4.48   | 4.72    |
| 20                   | 100 |  | 3.63   | 3.4    | 3.92    |
| 20                   | 1   |  | 4.3    | 3.88   | 4.54    |
| 20                   | 100 |  | 5.59   | 5.22   | 5.35    |
| Limit                |     |  | ≤13dB  |        |         |

| LTE Band 66 PAR [dBm] |         |            |        |        |         |
|-----------------------|---------|------------|--------|--------|---------|
| BW [MHz]              | RB Size | Modulation | Lowest | Middle | Highest |
|                       |         |            | P-A    | P-A    | P-A     |
| 20                    | 1       | QPSK       | 4.99   | 5.34   | 4.8     |
| 20                    | 100     |            | 4.47   | 4.64   | 4.18    |
| 20                    | 1       | 16-QAM     | 5.31   | 6.73   | 4.99    |
| 20                    | 100     |            | 5.25   | 6.49   | 5.64    |
| Limit                 |         |            | ≤13dB  |        |         |

Note: Test chart See Appendix D

## 5. RADIATED POWER AND EFFECTIVE ISOTROPIC RADIATED POWER

### 5.1 DESCRIPTION OF THE ERP/EIRP MEASUREMENT

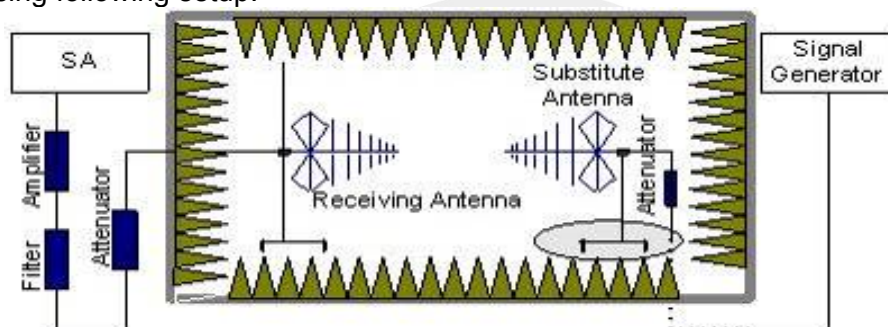
#### 5.1.1 MEASUREMENT METHOD

Effective radiated power output measurements by substitution method according to ANSI C63.26 2015, and the spectrum analyzer configuration follows KDB 971168 D01 Power Meas. License Digital Systems. Mobile and portable (hand-held) stations operating are limited to average ERP, Equivalent isotropic radiated power output measurements by substitution method according to ANSI C63.26 2015, and the spectrum analyzer configuration follows KDB 971168 D01 Power Meas, Mobile and portable (hand-held) stations operating are limited to average EIRP.

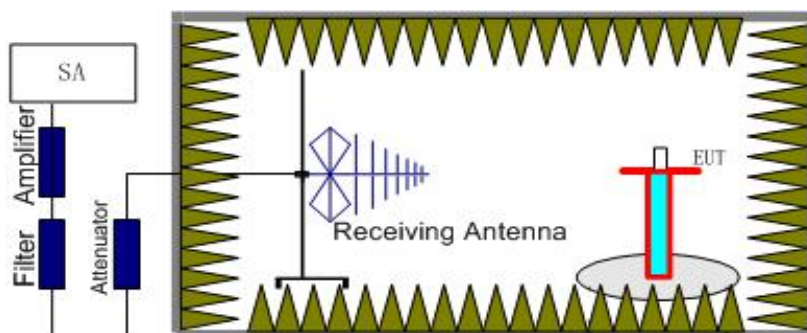
#### 5.1.2 TEST SETUP

The procedure of radiated spurious emissions is as follows:

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



b) EUT was placed on a 1.5m 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



### 5.1.3 TEST PROCEDURES

1. The testing follows FCC KDB 971168 D01v03r01 Section 5.6 and ANSI C63.26 2015 Section 5.2.
2. The EUT was placed on a non-conductive rotating platform 1.5 meters high in a semi-anechoic chamber. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and a spectrum analyzer with Peak detector.
3. During the measurement, the system simulator parameters were set to force the EUT transmitting at maximum output power. The maximum emission was recorded from analyzer power level (LVL) from the 360 degrees rotation of the turntable and the test antenna raised and lowered over a range from 1 to 4 m in both horizontally and vertically polarized orientations.
4. Effective Isotropic Radiated Power (EIRP) was measured by substitution method according to ANSI C63.26 2015. The EUT was replaced by dipole antenna (substitution antenna) at same location and then a known power from S.G. was applied into the dipole antenna through a Tx cable, and then recorded the maximum Analyzer reading through raised and lowered the test antenna. The correction factor (in dB) = S.G. - Tx Cable loss + Substitution antenna gain - Analyzer reading. Then the EUT's EIRP was calculated with the correction factor,  $EIRP/ERP = LVL + \text{Correction factor}$ .
5. RB Set greater than bandwidth, VB Set spectrum analyzer Maximum support.





## 5.1.4 TEST RESULTS

Note: Test is divided into three directions, X/Y/Z. X pattern for the worst.

| Radiated Power (EIRP) for LTE Band 2 / 1.4M |               |        |         |                       |               |               |                        |                                 |            |
|---------------------------------------------|---------------|--------|---------|-----------------------|---------------|---------------|------------------------|---------------------------------|------------|
| Modulation                                  | RB            |        | Channel | Result                |               |               |                        |                                 | Conclusion |
|                                             | Size          | Offset |         | S<br>G.Level<br>(dBm) | Cable<br>loss | Gain<br>(dBi) | PMeas<br>E.I.R.P.(dBm) | Polarization<br>Of Max.<br>EIRP |            |
| QPSK                                        | 1             | 0      | Lowest  | 12.06                 | 2.37          | 10.40         | 20.09                  | Horizontal                      | Pass       |
|                                             | 1             | 0      | Middle  | 12.22                 | 2.39          | 10.42         | 20.25                  | Horizontal                      | Pass       |
|                                             | 1             | 0      | Highest | 12.18                 | 2.40          | 10.44         | 20.22                  | Horizontal                      | Pass       |
|                                             | 1             | 0      | Lowest  | 13.45                 | 2.37          | 10.40         | 21.48                  | Vertical                        | Pass       |
|                                             | 1             | 0      | Middle  | 13.62                 | 2.39          | 10.42         | 21.65                  | Vertical                        | Pass       |
|                                             | 1             | 0      | Highest | 13.59                 | 2.40          | 10.44         | 21.63                  | Vertical                        | Pass       |
| 16QAM                                       | 1             | 0      | Lowest  | 11.9                  | 2.37          | 10.40         | 19.93                  | Horizontal                      | Pass       |
|                                             | 1             | 0      | Middle  | 12.11                 | 2.39          | 10.42         | 20.14                  | Horizontal                      | Pass       |
|                                             | 1             | 0      | Highest | 11.88                 | 2.40          | 10.44         | 19.92                  | Horizontal                      | Pass       |
|                                             | 1             | 0      | Lowest  | 13.29                 | 2.37          | 10.40         | 21.32                  | Vertical                        | Pass       |
|                                             | 1             | 0      | Middle  | 13.42                 | 2.39          | 10.42         | 21.45                  | Vertical                        | Pass       |
|                                             | 1             | 0      | Highest | 13.37                 | 2.40          | 10.44         | 21.41                  | Vertical                        | Pass       |
| Limit                                       | EIRP<2W=33dBm |        |         |                       |               |               |                        |                                 |            |

| Radiated Power (EIRP) for LTE Band 2 / 3M |               |        |         |                       |               |               |                        |                                 |            |
|-------------------------------------------|---------------|--------|---------|-----------------------|---------------|---------------|------------------------|---------------------------------|------------|
| Modulation                                | RB            |        | Channel | Result                |               |               |                        |                                 | Conclusion |
|                                           | Size          | Offset |         | S<br>G.Level<br>(dBm) | Cable<br>loss | Gain<br>(dBi) | PMeas<br>E.I.R.P.(dBm) | Polarization<br>Of Max.<br>EIRP |            |
| QPSK                                      | 1             | 0      | Lowest  | 12.33                 | 2.37          | 10.40         | 20.36                  | Horizontal                      | Pass       |
|                                           | 1             | 0      | Middle  | 12.22                 | 2.39          | 10.42         | 20.25                  | Horizontal                      | Pass       |
|                                           | 1             | 0      | Highest | 12.28                 | 2.40          | 10.44         | 20.32                  | Horizontal                      | Pass       |
|                                           | 1             | 0      | Lowest  | 13.73                 | 2.37          | 10.40         | 21.76                  | Vertical                        | Pass       |
|                                           | 1             | 0      | Middle  | 13.64                 | 2.39          | 10.42         | 21.67                  | Vertical                        | Pass       |
|                                           | 1             | 0      | Highest | 13.69                 | 2.40          | 10.44         | 21.73                  | Vertical                        | Pass       |
| 16QAM                                     | 1             | 0      | Lowest  | 12.09                 | 2.37          | 10.40         | 20.12                  | Horizontal                      | Pass       |
|                                           | 1             | 0      | Middle  | 12.06                 | 2.39          | 10.42         | 20.09                  | Horizontal                      | Pass       |
|                                           | 1             | 0      | Highest | 11.96                 | 2.40          | 10.44         | 20.00                  | Horizontal                      | Pass       |
|                                           | 1             | 0      | Lowest  | 13.47                 | 2.37          | 10.40         | 21.50                  | Vertical                        | Pass       |
|                                           | 1             | 0      | Middle  | 13.38                 | 2.39          | 10.42         | 21.41                  | Vertical                        | Pass       |
|                                           | 1             | 0      | Highest | 13.3                  | 2.40          | 10.44         | 21.34                  | Vertical                        | Pass       |
| Limit                                     | EIRP<2W=33dBm |        |         |                       |               |               |                        |                                 |            |



| Radiated Power (EIRP) for LTE Band 2 / 5M |               |        |         |                       |               |               |                        |                                 |            |
|-------------------------------------------|---------------|--------|---------|-----------------------|---------------|---------------|------------------------|---------------------------------|------------|
| Modulation                                | RB            |        | Channel | Result                |               |               |                        |                                 | Conclusion |
|                                           | Size          | Offset |         | S<br>G.Level<br>(dBm) | Cable<br>loss | Gain<br>(dBi) | PMeas<br>E.I.R.P.(dBm) | Polarization<br>Of Max.<br>EIRP |            |
| QPSK                                      | 1             | 0      | Lowest  | 12.09                 | 2.37          | 10.40         | 20.12                  | Horizontal                      | Pass       |
|                                           | 1             | 0      | Middle  | 12.19                 | 2.39          | 10.42         | 20.22                  | Horizontal                      | Pass       |
|                                           | 1             | 0      | Highest | 12.09                 | 2.40          | 10.44         | 20.13                  | Horizontal                      | Pass       |
|                                           | 1             | 0      | Lowest  | 13.43                 | 2.37          | 10.40         | 21.46                  | Vertical                        | Pass       |
|                                           | 1             | 0      | Middle  | 13.63                 | 2.39          | 10.42         | 21.66                  | Vertical                        | Pass       |
|                                           | 1             | 0      | Highest | 13.48                 | 2.40          | 10.44         | 21.52                  | Vertical                        | Pass       |
| 16QAM                                     | 1             | 0      | Lowest  | 11.75                 | 2.37          | 10.40         | 19.78                  | Horizontal                      | Pass       |
|                                           | 1             | 0      | Middle  | 11.83                 | 2.39          | 10.42         | 19.86                  | Horizontal                      | Pass       |
|                                           | 1             | 0      | Highest | 11.71                 | 2.40          | 10.44         | 19.75                  | Horizontal                      | Pass       |
|                                           | 1             | 0      | Lowest  | 13.19                 | 2.37          | 10.40         | 21.22                  | Vertical                        | Pass       |
|                                           | 1             | 0      | Middle  | 13.33                 | 2.39          | 10.42         | 21.36                  | Vertical                        | Pass       |
|                                           | 1             | 0      | Highest | 13.2                  | 2.40          | 10.44         | 21.24                  | Vertical                        | Pass       |
| Limit                                     | EIRP<2W=33dBm |        |         |                       |               |               |                        |                                 |            |

| Radiated Power (EIRP) for LTE Band 2 / 10M |               |        |         |                       |               |               |                        |                                 |            |
|--------------------------------------------|---------------|--------|---------|-----------------------|---------------|---------------|------------------------|---------------------------------|------------|
| Modulation                                 | RB            |        | Channel | Result                |               |               |                        |                                 | Conclusion |
|                                            | Size          | Offset |         | S<br>G.Level<br>(dBm) | Cable<br>loss | Gain<br>(dBi) | PMeas<br>E.I.R.P.(dBm) | Polarization<br>Of Max.<br>EIRP |            |
| QPSK                                       | 1             | 0      | Lowest  | 12.11                 | 2.37          | 10.40         | 20.14                  | Horizontal                      | Pass       |
|                                            | 1             | 0      | Middle  | 12.18                 | 2.39          | 10.42         | 20.21                  | Horizontal                      | Pass       |
|                                            | 1             | 0      | Highest | 11.93                 | 2.40          | 10.44         | 19.97                  | Horizontal                      | Pass       |
|                                            | 1             | 0      | Lowest  | 13.57                 | 2.37          | 10.40         | 21.60                  | Vertical                        | Pass       |
|                                            | 1             | 0      | Middle  | 13.67                 | 2.39          | 10.42         | 21.70                  | Vertical                        | Pass       |
|                                            | 1             | 0      | Highest | 13.3                  | 2.40          | 10.44         | 21.34                  | Vertical                        | Pass       |
| 16QAM                                      | 1             | 0      | Lowest  | 12.03                 | 2.37          | 10.40         | 20.06                  | Horizontal                      | Pass       |
|                                            | 1             | 0      | Middle  | 12.21                 | 2.39          | 10.42         | 20.24                  | Horizontal                      | Pass       |
|                                            | 1             | 0      | Highest | 11.58                 | 2.40          | 10.44         | 19.62                  | Horizontal                      | Pass       |
|                                            | 1             | 0      | Lowest  | 13.44                 | 2.37          | 10.40         | 21.47                  | Vertical                        | Pass       |
|                                            | 1             | 0      | Middle  | 13.56                 | 2.39          | 10.42         | 21.59                  | Vertical                        | Pass       |
|                                            | 1             | 0      | Highest | 12.94                 | 2.40          | 10.44         | 20.98                  | Vertical                        | Pass       |
| Limit                                      | EIRP<2W=33dBm |        |         |                       |               |               |                        |                                 |            |



| Radiated Power (EIRP) for LTE Band 2 / 15M |               |        |         |                       |               |               |                        |                                 |            |
|--------------------------------------------|---------------|--------|---------|-----------------------|---------------|---------------|------------------------|---------------------------------|------------|
| Modulation                                 | RB            |        | Channel | Result                |               |               |                        |                                 | Conclusion |
|                                            | Size          | Offset |         | S<br>G.Level<br>(dBm) | Cable<br>loss | Gain<br>(dBi) | PMeas<br>E.I.R.P.(dBm) | Polarization<br>Of Max.<br>EIRP |            |
| QPSK                                       | 1             | 0      | Lowest  | 12.2                  | 2.37          | 10.40         | 20.23                  | Horizontal                      | Pass       |
|                                            | 1             | 0      | Middle  | 12.21                 | 2.39          | 10.42         | 20.24                  | Horizontal                      | Pass       |
|                                            | 1             | 0      | Highest | 12.06                 | 2.40          | 10.44         | 20.10                  | Horizontal                      | Pass       |
|                                            | 1             | 0      | Lowest  | 13.67                 | 2.37          | 10.40         | 21.70                  | Vertical                        | Pass       |
|                                            | 1             | 0      | Middle  | 13.58                 | 2.39          | 10.42         | 21.61                  | Vertical                        | Pass       |
|                                            | 1             | 0      | Highest | 13.5                  | 2.40          | 10.44         | 21.54                  | Vertical                        | Pass       |
| 16QAM                                      | 1             | 0      | Lowest  | 12.09                 | 2.37          | 10.40         | 20.12                  | Horizontal                      | Pass       |
|                                            | 1             | 0      | Middle  | 12.15                 | 2.39          | 10.42         | 20.18                  | Horizontal                      | Pass       |
|                                            | 1             | 0      | Highest | 11.78                 | 2.40          | 10.44         | 19.82                  | Horizontal                      | Pass       |
|                                            | 1             | 0      | Lowest  | 13.46                 | 2.37          | 10.40         | 21.49                  | Vertical                        | Pass       |
|                                            | 1             | 0      | Middle  | 13.45                 | 2.39          | 10.42         | 21.48                  | Vertical                        | Pass       |
|                                            | 1             | 0      | Highest | 13.22                 | 2.40          | 10.44         | 21.26                  | Vertical                        | Pass       |
| Limit                                      | EIRP<2W=33dBm |        |         |                       |               |               |                        |                                 |            |

| Radiated Power (EIRP) for LTE Band 2 / 20M |               |        |         |                       |               |               |                        |                                 |            |
|--------------------------------------------|---------------|--------|---------|-----------------------|---------------|---------------|------------------------|---------------------------------|------------|
| Modulation                                 | RB            |        | Channel | Result                |               |               |                        |                                 | Conclusion |
|                                            | Size          | Offset |         | S<br>G.Level<br>(dBm) | Cable<br>loss | Gain<br>(dBi) | PMeas<br>E.I.R.P.(dBm) | Polarization<br>Of Max.<br>EIRP |            |
| QPSK                                       | 1             | 0      | Lowest  | 12.33                 | 2.37          | 10.40         | 20.36                  | Horizontal                      | Pass       |
|                                            | 1             | 0      | Middle  | 12.47                 | 2.39          | 10.42         | 20.50                  | Horizontal                      | Pass       |
|                                            | 1             | 0      | Highest | 12.55                 | 2.40          | 10.44         | 20.59                  | Horizontal                      | Pass       |
|                                            | 1             | 0      | Lowest  | 13.8                  | 2.37          | 10.40         | 21.83                  | Vertical                        | Pass       |
|                                            | 1             | 0      | Middle  | 13.84                 | 2.39          | 10.42         | 21.87                  | Vertical                        | Pass       |
|                                            | 1             | 0      | Highest | 13.88                 | 2.40          | 10.44         | 21.92                  | Vertical                        | Pass       |
| 16QAM                                      | 1             | 0      | Lowest  | 12.16                 | 2.37          | 10.40         | 20.19                  | Horizontal                      | Pass       |
|                                            | 1             | 0      | Middle  | 12.21                 | 2.39          | 10.42         | 20.24                  | Horizontal                      | Pass       |
|                                            | 1             | 0      | Highest | 12.23                 | 2.40          | 10.44         | 20.27                  | Horizontal                      | Pass       |
|                                            | 1             | 0      | Lowest  | 13.48                 | 2.37          | 10.40         | 21.51                  | Vertical                        | Pass       |
|                                            | 1             | 0      | Middle  | 13.64                 | 2.39          | 10.42         | 21.67                  | Vertical                        | Pass       |
|                                            | 1             | 0      | Highest | 13.54                 | 2.40          | 10.44         | 21.58                  | Vertical                        | Pass       |
| Limit                                      | EIRP<2W=33dBm |        |         |                       |               |               |                        |                                 |            |



| Radiated Power (EIRP) for LTE Band 4 / 1.4M |               |        |         |                       |               |               |                        |                                 |            |
|---------------------------------------------|---------------|--------|---------|-----------------------|---------------|---------------|------------------------|---------------------------------|------------|
| Modulation                                  | RB            |        | Channel | Result                |               |               |                        |                                 | Conclusion |
|                                             | Size          | Offset |         | S<br>G.Level<br>(dBm) | Cable<br>loss | Gain<br>(dBi) | PMeas<br>E.I.R.P.(dBm) | Polarization<br>Of Max.<br>EIRP |            |
| QPSK                                        | 1             | 0      | Lowest  | 12.86                 | 2.35          | 10.13         | 20.64                  | Horizontal                      | Pass       |
|                                             | 1             | 0      | Middle  | 12.95                 | 2.36          | 10.16         | 20.75                  | Horizontal                      | Pass       |
|                                             | 1             | 0      | Highest | 12.78                 | 2.37          | 10.22         | 20.63                  | Horizontal                      | Pass       |
|                                             | 1             | 0      | Lowest  | 14.3                  | 2.35          | 10.13         | 22.08                  | Vertical                        | Pass       |
|                                             | 1             | 0      | Middle  | 14.35                 | 2.36          | 10.16         | 22.15                  | Vertical                        | Pass       |
|                                             | 1             | 0      | Highest | 14.23                 | 2.37          | 10.22         | 22.08                  | Vertical                        | Pass       |
| 16QAM                                       | 1             | 0      | Lowest  | 12.8                  | 2.35          | 10.13         | 20.58                  | Horizontal                      | Pass       |
|                                             | 1             | 0      | Middle  | 12.61                 | 2.36          | 10.16         | 20.41                  | Horizontal                      | Pass       |
|                                             | 1             | 0      | Highest | 12.58                 | 2.37          | 10.22         | 20.43                  | Horizontal                      | Pass       |
|                                             | 1             | 0      | Lowest  | 14.12                 | 2.35          | 10.13         | 21.90                  | Vertical                        | Pass       |
|                                             | 1             | 0      | Middle  | 14.06                 | 2.36          | 10.16         | 21.86                  | Vertical                        | Pass       |
|                                             | 1             | 0      | Highest | 13.97                 | 2.37          | 10.22         | 21.82                  | Vertical                        | Pass       |
| Limit                                       | EIRP<1W=30dBm |        |         |                       |               |               |                        |                                 |            |

| Radiated Power (EIRP) for LTE Band 4 / 3M |               |        |         |                       |               |               |                        |                                 |            |
|-------------------------------------------|---------------|--------|---------|-----------------------|---------------|---------------|------------------------|---------------------------------|------------|
| Modulation                                | RB            |        | Channel | Result                |               |               |                        |                                 | Conclusion |
|                                           | Size          | Offset |         | S<br>G.Level<br>(dBm) | Cable<br>loss | Gain<br>(dBi) | PMeas<br>E.I.R.P.(dBm) | Polarization<br>Of Max.<br>EIRP |            |
| QPSK                                      | 1             | 0      | Lowest  | 12.87                 | 2.35          | 10.13         | 20.65                  | Horizontal                      | Pass       |
|                                           | 1             | 0      | Middle  | 13.05                 | 2.36          | 10.16         | 20.85                  | Horizontal                      | Pass       |
|                                           | 1             | 0      | Highest | 13.01                 | 2.37          | 10.22         | 20.86                  | Horizontal                      | Pass       |
|                                           | 1             | 0      | Lowest  | 14.32                 | 2.35          | 10.13         | 22.10                  | Vertical                        | Pass       |
|                                           | 1             | 0      | Middle  | 14.51                 | 2.36          | 10.16         | 22.31                  | Vertical                        | Pass       |
|                                           | 1             | 0      | Highest | 14.4                  | 2.37          | 10.22         | 22.25                  | Vertical                        | Pass       |
| 16QAM                                     | 1             | 0      | Lowest  | 12.62                 | 2.35          | 10.13         | 20.40                  | Horizontal                      | Pass       |
|                                           | 1             | 0      | Middle  | 12.85                 | 2.36          | 10.16         | 20.65                  | Horizontal                      | Pass       |
|                                           | 1             | 0      | Highest | 12.74                 | 2.37          | 10.22         | 20.59                  | Horizontal                      | Pass       |
|                                           | 1             | 0      | Lowest  | 14.02                 | 2.35          | 10.13         | 21.80                  | Vertical                        | Pass       |
|                                           | 1             | 0      | Middle  | 14.25                 | 2.36          | 10.16         | 22.05                  | Vertical                        | Pass       |
|                                           | 1             | 0      | Highest | 14.06                 | 2.37          | 10.22         | 21.91                  | Vertical                        | Pass       |
| Limit                                     | EIRP<1W=30dBm |        |         |                       |               |               |                        |                                 |            |



| Radiated Power (EIRP) for LTE Band 4 / 5M |               |        |         |                       |               |               |                        |                                 |            |
|-------------------------------------------|---------------|--------|---------|-----------------------|---------------|---------------|------------------------|---------------------------------|------------|
| Modulation                                | RB            |        | Channel | Result                |               |               |                        |                                 | Conclusion |
|                                           | Size          | Offset |         | S<br>G.Level<br>(dBm) | Cable<br>loss | Gain<br>(dBi) | PMeas<br>E.I.R.P.(dBm) | Polarization<br>Of Max.<br>EIRP |            |
| QPSK                                      | 1             | 0      | Lowest  | 12.96                 | 2.35          | 10.13         | 20.74                  | Horizontal                      | Pass       |
|                                           | 1             | 0      | Middle  | 12.89                 | 2.36          | 10.16         | 20.69                  | Horizontal                      | Pass       |
|                                           | 1             | 0      | Highest | 12.79                 | 2.37          | 10.22         | 20.64                  | Horizontal                      | Pass       |
|                                           | 1             | 0      | Lowest  | 14.29                 | 2.35          | 10.13         | 22.07                  | Vertical                        | Pass       |
|                                           | 1             | 0      | Middle  | 14.3                  | 2.36          | 10.16         | 22.10                  | Vertical                        | Pass       |
|                                           | 1             | 0      | Highest | 14.17                 | 2.37          | 10.22         | 22.02                  | Vertical                        | Pass       |
| 16QAM                                     | 1             | 0      | Lowest  | 12.7                  | 2.35          | 10.13         | 20.48                  | Horizontal                      | Pass       |
|                                           | 1             | 0      | Middle  | 12.7                  | 2.36          | 10.16         | 20.50                  | Horizontal                      | Pass       |
|                                           | 1             | 0      | Highest | 12.64                 | 2.37          | 10.22         | 20.49                  | Horizontal                      | Pass       |
|                                           | 1             | 0      | Lowest  | 14.01                 | 2.35          | 10.13         | 21.79                  | Vertical                        | Pass       |
|                                           | 1             | 0      | Middle  | 14.1                  | 2.36          | 10.16         | 21.90                  | Vertical                        | Pass       |
|                                           | 1             | 0      | Highest | 14.05                 | 2.37          | 10.22         | 21.90                  | Vertical                        | Pass       |
| Limit                                     | EIRP<1W=30dBm |        |         |                       |               |               |                        |                                 |            |

| Radiated Power (EIRP) for LTE Band 4 / 10M |               |        |         |                       |               |               |                        |                                 |            |
|--------------------------------------------|---------------|--------|---------|-----------------------|---------------|---------------|------------------------|---------------------------------|------------|
| Modulation                                 | RB            |        | Channel | Result                |               |               |                        |                                 | Conclusion |
|                                            | Size          | Offset |         | S<br>G.Level<br>(dBm) | Cable<br>loss | Gain<br>(dBi) | PMeas<br>E.I.R.P.(dBm) | Polarization<br>Of Max.<br>EIRP |            |
| QPSK                                       | 1             | 0      | Lowest  | 12.94                 | 2.35          | 10.13         | 20.72                  | Horizontal                      | Pass       |
|                                            | 1             | 0      | Middle  | 13.11                 | 2.36          | 10.16         | 20.91                  | Horizontal                      | Pass       |
|                                            | 1             | 0      | Highest | 12.83                 | 2.37          | 10.22         | 20.68                  | Horizontal                      | Pass       |
|                                            | 1             | 0      | Lowest  | 14.42                 | 2.35          | 10.13         | 22.20                  | Vertical                        | Pass       |
|                                            | 1             | 0      | Middle  | 14.42                 | 2.36          | 10.16         | 22.22                  | Vertical                        | Pass       |
|                                            | 1             | 0      | Highest | 14.24                 | 2.37          | 10.22         | 22.09                  | Vertical                        | Pass       |
| 16QAM                                      | 1             | 0      | Lowest  | 12.72                 | 2.35          | 10.13         | 20.50                  | Horizontal                      | Pass       |
|                                            | 1             | 0      | Middle  | 12.73                 | 2.36          | 10.16         | 20.53                  | Horizontal                      | Pass       |
|                                            | 1             | 0      | Highest | 12.53                 | 2.37          | 10.22         | 20.38                  | Horizontal                      | Pass       |
|                                            | 1             | 0      | Lowest  | 14.17                 | 2.35          | 10.13         | 21.95                  | Vertical                        | Pass       |
|                                            | 1             | 0      | Middle  | 14.04                 | 2.36          | 10.16         | 21.84                  | Vertical                        | Pass       |
|                                            | 1             | 0      | Highest | 13.98                 | 2.37          | 10.22         | 21.83                  | Vertical                        | Pass       |
| Limit                                      | EIRP<1W=30dBm |        |         |                       |               |               |                        |                                 |            |



| Radiated Power (EIRP) for LTE Band 4 / 15M |               |        |         |                       |               |               |                        |                                 |            |
|--------------------------------------------|---------------|--------|---------|-----------------------|---------------|---------------|------------------------|---------------------------------|------------|
| Modulation                                 | RB            |        | Channel | Result                |               |               |                        |                                 | Conclusion |
|                                            | Size          | Offset |         | S<br>G.Level<br>(dBm) | Cable<br>loss | Gain<br>(dBi) | PMeas<br>E.I.R.P.(dBm) | Polarization<br>Of Max.<br>EIRP |            |
| QPSK                                       | 1             | 0      | Lowest  | 12.91                 | 2.35          | 10.13         | 20.69                  | Horizontal                      | Pass       |
|                                            | 1             | 0      | Middle  | 12.79                 | 2.36          | 10.16         | 20.59                  | Horizontal                      | Pass       |
|                                            | 1             | 0      | Highest | 12.89                 | 2.37          | 10.22         | 20.74                  | Horizontal                      | Pass       |
|                                            | 1             | 0      | Lowest  | 14.4                  | 2.35          | 10.13         | 22.18                  | Vertical                        | Pass       |
|                                            | 1             | 0      | Middle  | 14.1                  | 2.36          | 10.16         | 21.90                  | Vertical                        | Pass       |
|                                            | 1             | 0      | Highest | 14.28                 | 2.37          | 10.22         | 22.13                  | Vertical                        | Pass       |
| 16QAM                                      | 1             | 0      | Lowest  | 12.62                 | 2.35          | 10.13         | 20.40                  | Horizontal                      | Pass       |
|                                            | 1             | 0      | Middle  | 12.42                 | 2.36          | 10.16         | 20.22                  | Horizontal                      | Pass       |
|                                            | 1             | 0      | Highest | 12.71                 | 2.37          | 10.22         | 20.56                  | Horizontal                      | Pass       |
|                                            | 1             | 0      | Lowest  | 14.1                  | 2.35          | 10.13         | 21.88                  | Vertical                        | Pass       |
|                                            | 1             | 0      | Middle  | 13.85                 | 2.36          | 10.16         | 21.65                  | Vertical                        | Pass       |
|                                            | 1             | 0      | Highest | 14.07                 | 2.37          | 10.22         | 21.92                  | Vertical                        | Pass       |
| Limit                                      | EIRP<1W=30dBm |        |         |                       |               |               |                        |                                 |            |

| Radiated Power (EIRP) for LTE Band 4 / 20M |               |        |         |                       |               |               |                        |                                 |            |
|--------------------------------------------|---------------|--------|---------|-----------------------|---------------|---------------|------------------------|---------------------------------|------------|
| Modulation                                 | RB            |        | Channel | Result                |               |               |                        |                                 | Conclusion |
|                                            | Size          | Offset |         | S<br>G.Level<br>(dBm) | Cable<br>loss | Gain<br>(dBi) | PMeas<br>E.I.R.P.(dBm) | Polarization<br>Of Max.<br>EIRP |            |
| QPSK                                       | 1             | 0      | Lowest  | 13.07                 | 2.35          | 10.13         | 20.85                  | Horizontal                      | Pass       |
|                                            | 1             | 0      | Middle  | 13.05                 | 2.36          | 10.16         | 20.85                  | Horizontal                      | Pass       |
|                                            | 1             | 0      | Highest | 13.04                 | 2.37          | 10.22         | 20.89                  | Horizontal                      | Pass       |
|                                            | 1             | 0      | Lowest  | 14.47                 | 2.35          | 10.13         | 22.25                  | Vertical                        | Pass       |
|                                            | 1             | 0      | Middle  | 14.54                 | 2.36          | 10.16         | 22.34                  | Vertical                        | Pass       |
|                                            | 1             | 0      | Highest | 14.45                 | 2.37          | 10.22         | 22.30                  | Vertical                        | Pass       |
| 16QAM                                      | 1             | 0      | Lowest  | 12.85                 | 2.35          | 10.13         | 20.63                  | Horizontal                      | Pass       |
|                                            | 1             | 0      | Middle  | 12.89                 | 2.36          | 10.16         | 20.69                  | Horizontal                      | Pass       |
|                                            | 1             | 0      | Highest | 13                    | 2.37          | 10.22         | 20.85                  | Horizontal                      | Pass       |
|                                            | 1             | 0      | Lowest  | 14.22                 | 2.35          | 10.13         | 22.00                  | Vertical                        | Pass       |
|                                            | 1             | 0      | Middle  | 14.33                 | 2.36          | 10.16         | 22.13                  | Vertical                        | Pass       |
|                                            | 1             | 0      | Highest | 14.3                  | 2.37          | 10.22         | 22.15                  | Vertical                        | Pass       |
| Limit                                      | EIRP<1W=30dBm |        |         |                       |               |               |                        |                                 |            |



| Radiated Power (ERP) for LTE Band 5 / 1.4M |                 |        |         |                       |               |               |                          |                     |                                |            |
|--------------------------------------------|-----------------|--------|---------|-----------------------|---------------|---------------|--------------------------|---------------------|--------------------------------|------------|
| Modulation                                 | RB              |        | Channel | Result                |               |               |                          |                     |                                | Conclusion |
|                                            | Size            | Offset |         | S<br>G.Level<br>(dBm) | Cable<br>loss | Gain<br>(dBi) | correction<br>factor(dB) | PMeas<br>E.R.P(dBm) | Polarization<br>Of Max.<br>ERP |            |
| QPSK                                       | 1               | 0      | Lowest  | 18.88                 | 1.27          | 6.70          | 2.15                     | 22.16               | Horizontal                     | Pass       |
|                                            | 1               | 0      | Middle  | 18.98                 | 1.28          | 6.70          | 2.15                     | 22.25               | Horizontal                     | Pass       |
|                                            | 1               | 0      | Highest | 19.05                 | 1.29          | 6.70          | 2.15                     | 22.31               | Horizontal                     | Pass       |
|                                            | 1               | 0      | Lowest  | 20.25                 | 1.27          | 6.70          | 2.15                     | 23.53               | Vertical                       | Pass       |
|                                            | 1               | 0      | Middle  | 20.38                 | 1.28          | 6.70          | 2.15                     | 23.65               | Vertical                       | Pass       |
|                                            | 1               | 0      | Highest | 20.44                 | 1.29          | 6.70          | 2.15                     | 23.70               | Vertical                       | Pass       |
| 16QAM                                      | 1               | 0      | Lowest  | 18.72                 | 1.27          | 6.70          | 2.15                     | 22.00               | Horizontal                     | Pass       |
|                                            | 1               | 0      | Middle  | 18.82                 | 1.28          | 6.70          | 2.15                     | 22.09               | Horizontal                     | Pass       |
|                                            | 1               | 0      | Highest | 18.71                 | 1.29          | 6.70          | 2.15                     | 21.97               | Horizontal                     | Pass       |
|                                            | 1               | 0      | Lowest  | 20.22                 | 1.27          | 6.70          | 2.15                     | 23.50               | Vertical                       | Pass       |
|                                            | 1               | 0      | Middle  | 20.15                 | 1.28          | 6.70          | 2.15                     | 23.42               | Vertical                       | Pass       |
|                                            | 1               | 0      | Highest | 20.2                  | 1.29          | 6.70          | 2.15                     | 23.46               | Vertical                       | Pass       |
| Limit                                      | ERP<7W=38.45dBm |        |         |                       |               |               |                          |                     |                                |            |

| Radiated Power (ERP) for LTE Band 5 / 3M |                 |        |         |                       |               |               |                          |                     |                                |            |
|------------------------------------------|-----------------|--------|---------|-----------------------|---------------|---------------|--------------------------|---------------------|--------------------------------|------------|
| Modulation                               | RB              |        | Channel | Result                |               |               |                          |                     |                                | Conclusion |
|                                          | Size            | Offset |         | S<br>G.Level<br>(dBm) | Cable<br>loss | Gain<br>(dBi) | correction<br>factor(dB) | PMeas<br>E.R.P(dBm) | Polarization<br>Of Max.<br>ERP |            |
| QPSK                                     | 1               | 0      | Lowest  | 18.82                 | 1.27          | 6.70          | 2.15                     | 22.10               | Horizontal                     | Pass       |
|                                          | 1               | 0      | Middle  | 19.13                 | 1.28          | 6.70          | 2.15                     | 22.40               | Horizontal                     | Pass       |
|                                          | 1               | 0      | Highest | 19.2                  | 1.29          | 6.70          | 2.15                     | 22.46               | Horizontal                     | Pass       |
|                                          | 1               | 0      | Lowest  | 20.24                 | 1.27          | 6.70          | 2.15                     | 23.52               | Vertical                       | Pass       |
|                                          | 1               | 0      | Middle  | 20.53                 | 1.28          | 6.70          | 2.15                     | 23.80               | Vertical                       | Pass       |
|                                          | 1               | 0      | Highest | 20.54                 | 1.29          | 6.70          | 2.15                     | 23.80               | Vertical                       | Pass       |
| 16QAM                                    | 1               | 0      | Lowest  | 18.52                 | 1.27          | 6.70          | 2.15                     | 21.80               | Horizontal                     | Pass       |
|                                          | 1               | 0      | Middle  | 18.74                 | 1.28          | 6.70          | 2.15                     | 22.01               | Horizontal                     | Pass       |
|                                          | 1               | 0      | Highest | 18.84                 | 1.29          | 6.70          | 2.15                     | 22.10               | Horizontal                     | Pass       |
|                                          | 1               | 0      | Lowest  | 19.89                 | 1.27          | 6.70          | 2.15                     | 23.17               | Vertical                       | Pass       |
|                                          | 1               | 0      | Middle  | 20.18                 | 1.28          | 6.70          | 2.15                     | 23.45               | Vertical                       | Pass       |
|                                          | 1               | 0      | Highest | 20.17                 | 1.29          | 6.70          | 2.15                     | 23.43               | Vertical                       | Pass       |
| Limit                                    | ERP<7W=38.45dBm |        |         |                       |               |               |                          |                     |                                |            |



| Radiated Power (ERP) for LTE Band 5 / 5M |                 |        |         |                       |               |               |                          |                     |                                |            |
|------------------------------------------|-----------------|--------|---------|-----------------------|---------------|---------------|--------------------------|---------------------|--------------------------------|------------|
| Modulation                               | RB              |        | Channel | Result                |               |               |                          |                     |                                | Conclusion |
|                                          | Size            | Offset |         | S<br>G.Level<br>(dBm) | Cable<br>loss | Gain<br>(dBi) | correction<br>factor(dB) | PMeas<br>E.R.P(dBm) | Polarization<br>Of Max.<br>ERP |            |
| QPSK                                     | 1               | 0      | Lowest  | 19.04                 | 1.27          | 6.70          | 2.15                     | 22.32               | Horizontal                     | Pass       |
|                                          | 1               | 0      | Middle  | 19.08                 | 1.28          | 6.70          | 2.15                     | 22.35               | Horizontal                     | Pass       |
|                                          | 1               | 0      | Highest | 19.4                  | 1.29          | 6.70          | 2.15                     | 22.66               | Horizontal                     | Pass       |
|                                          | 1               | 0      | Lowest  | 20.39                 | 1.27          | 6.70          | 2.15                     | 23.67               | Vertical                       | Pass       |
|                                          | 1               | 0      | Middle  | 20.52                 | 1.28          | 6.70          | 2.15                     | 23.79               | Vertical                       | Pass       |
|                                          | 1               | 0      | Highest | 20.7                  | 1.29          | 6.70          | 2.15                     | 23.96               | Vertical                       | Pass       |
| 16QAM                                    | 1               | 0      | Lowest  | 18.76                 | 1.27          | 6.70          | 2.15                     | 22.04               | Horizontal                     | Pass       |
|                                          | 1               | 0      | Middle  | 18.8                  | 1.28          | 6.70          | 2.15                     | 22.07               | Horizontal                     | Pass       |
|                                          | 1               | 0      | Highest | 19.18                 | 1.29          | 6.70          | 2.15                     | 22.44               | Horizontal                     | Pass       |
|                                          | 1               | 0      | Lowest  | 20.13                 | 1.27          | 6.70          | 2.15                     | 23.41               | Vertical                       | Pass       |
|                                          | 1               | 0      | Middle  | 20.17                 | 1.28          | 6.70          | 2.15                     | 23.44               | Vertical                       | Pass       |
|                                          | 1               | 0      | Highest | 20.5                  | 1.29          | 6.70          | 2.15                     | 23.76               | Vertical                       | Pass       |
| Limit                                    | ERP<7W=38.45dBm |        |         |                       |               |               |                          |                     |                                |            |

| Radiated Power (ERP) for LTE Band 5 / 10M |                 |        |         |                       |               |               |                          |                     |                                |            |
|-------------------------------------------|-----------------|--------|---------|-----------------------|---------------|---------------|--------------------------|---------------------|--------------------------------|------------|
| Modulation                                | RB              |        | Channel | Result                |               |               |                          |                     |                                | Conclusion |
|                                           | Size            | Offset |         | S<br>G.Level<br>(dBm) | Cable<br>loss | Gain<br>(dBi) | correction<br>factor(dB) | PMeas<br>E.R.P(dBm) | Polarization<br>Of Max.<br>ERP |            |
| QPSK                                      | 1               | 0      | Lowest  | 19.36                 | 1.27          | 6.70          | 2.15                     | 22.64               | Horizontal                     | Pass       |
|                                           | 1               | 0      | Middle  | 19.41                 | 1.28          | 6.70          | 2.15                     | 22.68               | Horizontal                     | Pass       |
|                                           | 1               | 0      | Highest | 19.37                 | 1.29          | 6.70          | 2.15                     | 22.63               | Horizontal                     | Pass       |
|                                           | 1               | 0      | Lowest  | 20.7                  | 1.27          | 6.70          | 2.15                     | 23.98               | Vertical                       | Pass       |
|                                           | 1               | 0      | Middle  | 20.71                 | 1.28          | 6.70          | 2.15                     | 23.98               | Vertical                       | Pass       |
|                                           | 1               | 0      | Highest | 20.78                 | 1.29          | 6.70          | 2.15                     | 24.04               | Vertical                       | Pass       |
| 16QAM                                     | 1               | 0      | Lowest  | 19.07                 | 1.27          | 6.70          | 2.15                     | 22.35               | Horizontal                     | Pass       |
|                                           | 1               | 0      | Middle  | 19.12                 | 1.28          | 6.70          | 2.15                     | 22.39               | Horizontal                     | Pass       |
|                                           | 1               | 0      | Highest | 19.04                 | 1.29          | 6.70          | 2.15                     | 22.30               | Horizontal                     | Pass       |
|                                           | 1               | 0      | Lowest  | 20.48                 | 1.27          | 6.70          | 2.15                     | 23.76               | Vertical                       | Pass       |
|                                           | 1               | 0      | Middle  | 20.49                 | 1.28          | 6.70          | 2.15                     | 23.76               | Vertical                       | Pass       |
|                                           | 1               | 0      | Highest | 20.46                 | 1.29          | 6.70          | 2.15                     | 23.72               | Vertical                       | Pass       |
| Limit                                     | ERP<7W=38.45dBm |        |         |                       |               |               |                          |                     |                                |            |



| Radiated Power (ERP) for LTE Band 12 / 1.4M |                 |        |         |                       |               |               |                          |                     |                                |            |
|---------------------------------------------|-----------------|--------|---------|-----------------------|---------------|---------------|--------------------------|---------------------|--------------------------------|------------|
| Modulation                                  | RB              |        | Channel | Result                |               |               |                          |                     |                                | Conclusion |
|                                             | Size            | Offset |         | S<br>G.Level<br>(dBm) | Cable<br>loss | Gain<br>(dBi) | correction<br>factor(dB) | PMeas<br>E.R.P(dBm) | Polarization<br>Of Max.<br>ERP |            |
| QPSK                                        | 1               | 0      | Lowest  | 18.25                 | 1.21          | 6.40          | 2.15                     | 21.29               | Horizontal                     | Pass       |
|                                             | 1               | 0      | Middle  | 18.35                 | 1.22          | 6.40          | 2.15                     | 21.38               | Horizontal                     | Pass       |
|                                             | 1               | 0      | Highest | 18.29                 | 1.23          | 6.40          | 2.15                     | 21.31               | Horizontal                     | Pass       |
|                                             | 1               | 0      | Lowest  | 19.73                 | 1.21          | 6.40          | 2.15                     | 22.77               | Vertical                       | Pass       |
|                                             | 1               | 0      | Middle  | 19.84                 | 1.22          | 6.40          | 2.15                     | 22.87               | Vertical                       | Pass       |
|                                             | 1               | 0      | Highest | 19.75                 | 1.23          | 6.40          | 2.15                     | 22.77               | Vertical                       | Pass       |
| 16QAM                                       | 1               | 0      | Lowest  | 18.1                  | 1.21          | 6.40          | 2.15                     | 21.14               | Horizontal                     | Pass       |
|                                             | 1               | 0      | Middle  | 18.38                 | 1.22          | 6.40          | 2.15                     | 21.41               | Horizontal                     | Pass       |
|                                             | 1               | 0      | Highest | 18.06                 | 1.23          | 6.40          | 2.15                     | 21.08               | Horizontal                     | Pass       |
|                                             | 1               | 0      | Lowest  | 19.5                  | 1.21          | 6.40          | 2.15                     | 22.54               | Vertical                       | Pass       |
|                                             | 1               | 0      | Middle  | 19.74                 | 1.22          | 6.40          | 2.15                     | 22.77               | Vertical                       | Pass       |
|                                             | 1               | 0      | Highest | 19.5                  | 1.23          | 6.40          | 2.15                     | 22.52               | Vertical                       | Pass       |
| Limit                                       | ERP<3W=34.77dBm |        |         |                       |               |               |                          |                     |                                |            |

| Radiated Power (ERP) for LTE Band 12 / 3M |                 |        |         |                       |               |               |                          |                     |                                |            |
|-------------------------------------------|-----------------|--------|---------|-----------------------|---------------|---------------|--------------------------|---------------------|--------------------------------|------------|
| Modulation                                | RB              |        | Channel | Result                |               |               |                          |                     |                                | Conclusion |
|                                           | Size            | Offset |         | S<br>G.Level<br>(dBm) | Cable<br>loss | Gain<br>(dBi) | correction<br>factor(dB) | PMeas<br>E.R.P(dBm) | Polarization<br>Of Max.<br>ERP |            |
| QPSK                                      | 1               | 0      | Lowest  | 18                    | 1.21          | 6.40          | 2.15                     | 21.04               | Horizontal                     | Pass       |
|                                           | 1               | 0      | Middle  | 18.15                 | 1.22          | 6.40          | 2.15                     | 21.18               | Horizontal                     | Pass       |
|                                           | 1               | 0      | Highest | 18.12                 | 1.23          | 6.40          | 2.15                     | 21.14               | Horizontal                     | Pass       |
|                                           | 1               | 0      | Lowest  | 19.42                 | 1.21          | 6.40          | 2.15                     | 22.46               | Vertical                       | Pass       |
|                                           | 1               | 0      | Middle  | 19.53                 | 1.22          | 6.40          | 2.15                     | 22.56               | Vertical                       | Pass       |
|                                           | 1               | 0      | Highest | 19.62                 | 1.23          | 6.40          | 2.15                     | 22.64               | Vertical                       | Pass       |
| 16QAM                                     | 1               | 0      | Lowest  | 17.99                 | 1.21          | 6.40          | 2.15                     | 21.03               | Horizontal                     | Pass       |
|                                           | 1               | 0      | Middle  | 17.95                 | 1.22          | 6.40          | 2.15                     | 20.98               | Horizontal                     | Pass       |
|                                           | 1               | 0      | Highest | 18.02                 | 1.23          | 6.40          | 2.15                     | 21.04               | Horizontal                     | Pass       |
|                                           | 1               | 0      | Lowest  | 19.32                 | 1.21          | 6.40          | 2.15                     | 22.36               | Vertical                       | Pass       |
|                                           | 1               | 0      | Middle  | 19.37                 | 1.22          | 6.40          | 2.15                     | 22.40               | Vertical                       | Pass       |
|                                           | 1               | 0      | Highest | 19.38                 | 1.23          | 6.40          | 2.15                     | 22.40               | Vertical                       | Pass       |
| Limit                                     | ERP<3W=34.77dBm |        |         |                       |               |               |                          |                     |                                |            |



| Radiated Power (ERP) for LTE Band 12 / 5M |                 |        |         |                       |               |               |                          |                     |                                |            |
|-------------------------------------------|-----------------|--------|---------|-----------------------|---------------|---------------|--------------------------|---------------------|--------------------------------|------------|
| Modulation                                | RB              |        | Channel | Result                |               |               |                          |                     |                                | Conclusion |
|                                           | Size            | Offset |         | S<br>G.Level<br>(dBm) | Cable<br>loss | Gain<br>(dBi) | correction<br>factor(dB) | PMeas<br>E.R.P(dBm) | Polarization<br>Of Max.<br>ERP |            |
| QPSK                                      | 1               | 0      | Lowest  | 18.53                 | 1.21          | 6.40          | 2.15                     | 21.57               | Horizontal                     | Pass       |
|                                           | 1               | 0      | Middle  | 18.27                 | 1.22          | 6.40          | 2.15                     | 21.30               | Horizontal                     | Pass       |
|                                           | 1               | 0      | Highest | 18.22                 | 1.23          | 6.40          | 2.15                     | 21.24               | Horizontal                     | Pass       |
|                                           | 1               | 0      | Lowest  | 19.86                 | 1.21          | 6.40          | 2.15                     | 22.90               | Vertical                       | Pass       |
|                                           | 1               | 0      | Middle  | 19.62                 | 1.22          | 6.40          | 2.15                     | 22.65               | Vertical                       | Pass       |
|                                           | 1               | 0      | Highest | 19.56                 | 1.23          | 6.40          | 2.15                     | 22.58               | Vertical                       | Pass       |
| 16QAM                                     | 1               | 0      | Lowest  | 18.23                 | 1.21          | 6.40          | 2.15                     | 21.27               | Horizontal                     | Pass       |
|                                           | 1               | 0      | Middle  | 18.07                 | 1.22          | 6.40          | 2.15                     | 21.10               | Horizontal                     | Pass       |
|                                           | 1               | 0      | Highest | 17.99                 | 1.23          | 6.40          | 2.15                     | 21.01               | Horizontal                     | Pass       |
|                                           | 1               | 0      | Lowest  | 19.63                 | 1.21          | 6.40          | 2.15                     | 22.67               | Vertical                       | Pass       |
|                                           | 1               | 0      | Middle  | 19.55                 | 1.22          | 6.40          | 2.15                     | 22.58               | Vertical                       | Pass       |
|                                           | 1               | 0      | Highest | 19.36                 | 1.23          | 6.40          | 2.15                     | 22.38               | Vertical                       | Pass       |
| Limit                                     | ERP<3W=34.77dBm |        |         |                       |               |               |                          |                     |                                |            |

| Radiated Power (ERP) for LTE Band 12 / 10M |                 |        |         |                       |               |               |                          |                     |                                |            |
|--------------------------------------------|-----------------|--------|---------|-----------------------|---------------|---------------|--------------------------|---------------------|--------------------------------|------------|
| Modulation                                 | RB              |        | Channel | Result                |               |               |                          |                     |                                | Conclusion |
|                                            | Size            | Offset |         | S<br>G.Level<br>(dBm) | Cable<br>loss | Gain<br>(dBi) | correction<br>factor(dB) | PMeas<br>E.R.P(dBm) | Polarization<br>Of Max.<br>ERP |            |
| QPSK                                       | 1               | 0      | Lowest  | 18.68                 | 1.21          | 6.40          | 2.15                     | 21.72               | Horizontal                     | Pass       |
|                                            | 1               | 0      | Middle  | 18.58                 | 1.22          | 6.40          | 2.15                     | 21.61               | Horizontal                     | Pass       |
|                                            | 1               | 0      | Highest | 18.63                 | 1.23          | 6.40          | 2.15                     | 21.65               | Horizontal                     | Pass       |
|                                            | 1               | 0      | Lowest  | 19.99                 | 1.21          | 6.40          | 2.15                     | 23.03               | Vertical                       | Pass       |
|                                            | 1               | 0      | Middle  | 19.94                 | 1.22          | 6.40          | 2.15                     | 22.97               | Vertical                       | Pass       |
|                                            | 1               | 0      | Highest | 20.08                 | 1.23          | 6.40          | 2.15                     | 23.10               | Vertical                       | Pass       |
| 16QAM                                      | 1               | 0      | Lowest  | 18.32                 | 1.21          | 6.40          | 2.15                     | 21.36               | Horizontal                     | Pass       |
|                                            | 1               | 0      | Middle  | 18.35                 | 1.22          | 6.40          | 2.15                     | 21.38               | Horizontal                     | Pass       |
|                                            | 1               | 0      | Highest | 18.4                  | 1.23          | 6.40          | 2.15                     | 21.42               | Horizontal                     | Pass       |
|                                            | 1               | 0      | Lowest  | 19.73                 | 1.21          | 6.40          | 2.15                     | 22.77               | Vertical                       | Pass       |
|                                            | 1               | 0      | Middle  | 19.68                 | 1.22          | 6.40          | 2.15                     | 22.71               | Vertical                       | Pass       |
|                                            | 1               | 0      | Highest | 19.78                 | 1.23          | 6.40          | 2.15                     | 22.80               | Vertical                       | Pass       |
| Limit                                      | ERP<3W=34.77dBm |        |         |                       |               |               |                          |                     |                                |            |



| Radiated Power (ERP) for LTE Band 13 / 5M |                 |        |         |                       |               |               |                          |                      |                |            |
|-------------------------------------------|-----------------|--------|---------|-----------------------|---------------|---------------|--------------------------|----------------------|----------------|------------|
| Modulation                                | RB              |        | Channel | Result                |               |               |                          |                      |                | Conclusion |
|                                           |                 |        |         | S<br>G.Level<br>(dBm) | Cable<br>loss | Gain<br>(dBi) | correction<br>factor(dB) | PMeas<br>E.R.P.(dBm) | Polarization   |            |
|                                           | Size            | Offset |         |                       |               |               |                          |                      | Of Max.<br>ERP |            |
| QPSK                                      | 1               | 0      | Lowest  | 15.56                 | 1.21          | 6.40          | 2.15                     | 18.60                | Horizontal     | Pass       |
|                                           | 1               | 0      | Middle  | 15.74                 | 1.22          | 6.40          | 2.15                     | 18.77                | Horizontal     | Pass       |
|                                           | 1               | 0      | Highest | 15.68                 | 1.23          | 6.40          | 2.15                     | 18.70                | Horizontal     | Pass       |
|                                           | 1               | 0      | Lowest  | 16.99                 | 1.21          | 6.40          | 2.15                     | 20.03                | Vertical       | Pass       |
|                                           | 1               | 0      | Middle  | 17.07                 | 1.22          | 6.40          | 2.15                     | 20.10                | Vertical       | Pass       |
|                                           | 1               | 0      | Highest | 17.08                 | 1.23          | 6.40          | 2.15                     | 20.10                | Vertical       | Pass       |
| 16QAM                                     | 1               | 0      | Lowest  | 15.46                 | 1.21          | 6.40          | 2.15                     | 18.50                | Horizontal     | Pass       |
|                                           | 1               | 0      | Middle  | 15.3                  | 1.22          | 6.40          | 2.15                     | 18.33                | Horizontal     | Pass       |
|                                           | 1               | 0      | Highest | 15.42                 | 1.23          | 6.40          | 2.15                     | 18.44                | Horizontal     | Pass       |
|                                           | 1               | 0      | Lowest  | 16.79                 | 1.21          | 6.40          | 2.15                     | 19.83                | Vertical       | Pass       |
|                                           | 1               | 0      | Middle  | 16.76                 | 1.22          | 6.40          | 2.15                     | 19.79                | Vertical       | Pass       |
|                                           | 1               | 0      | Highest | 16.85                 | 1.23          | 6.40          | 2.15                     | 19.87                | Vertical       | Pass       |
| Limit                                     | ERP<3W=34.77dBm |        |         |                       |               |               |                          |                      |                |            |

| Radiated Power (ERP) for LTE Band 13 / 10M |                 |        |         |                       |               |               |                          |                      |                |            |
|--------------------------------------------|-----------------|--------|---------|-----------------------|---------------|---------------|--------------------------|----------------------|----------------|------------|
| Modulation                                 | RB              |        | Channel | Result                |               |               |                          |                      |                | Conclusion |
|                                            |                 |        |         | S<br>G.Level<br>(dBm) | Cable<br>loss | Gain<br>(dBi) | correction<br>factor(dB) | PMeas<br>E.R.P.(dBm) | Polarization   |            |
|                                            | Size            | Offset |         |                       |               |               |                          |                      | Of Max.<br>ERP |            |
| QPSK                                       | 1               | 0      | Middle  | 16.29                 | 1.22          | 6.40          | 2.15                     | 19.32                | Horizontal     | Pass       |
|                                            | 1               | 0      | Middle  | 17.7                  | 1.22          | 6.40          | 2.15                     | 20.73                | Vertical       | Pass       |
| 16QAM                                      | 1               | 0      | Middle  | 16.19                 | 1.22          | 6.40          | 2.15                     | 19.22                | Horizontal     | Pass       |
|                                            | 1               | 0      | Middle  | 17.62                 | 1.22          | 6.40          | 2.15                     | 20.65                | Vertical       | Pass       |
| Limit                                      | ERP<3W=34.77dBm |        |         |                       |               |               |                          |                      |                |            |



| Radiated Power (EIRP) for LTE Band 25 / 1.4M |               |        |         |                       |               |               |                           |                                 |            |
|----------------------------------------------|---------------|--------|---------|-----------------------|---------------|---------------|---------------------------|---------------------------------|------------|
| Modulation                                   | RB            |        | Channel | Result                |               |               |                           |                                 | Conclusion |
|                                              | Size          | Offset |         | S<br>G.Level<br>(dBm) | Cable<br>loss | Gain<br>(dBi) | PMeas<br>E.I.<br>R.P(dBm) | Polarization<br>Of Max.<br>EIRP |            |
| QPSK                                         | 1             | 0      | Lowest  | 12.49                 | 2.37          | 10.40         | 20.52                     | Horizontal                      | Pass       |
|                                              | 1             | 0      | Middle  | 12.34                 | 2.39          | 10.42         | 20.37                     | Horizontal                      | Pass       |
|                                              | 1             | 0      | Highest | 12.46                 | 2.40          | 10.44         | 20.50                     | Horizontal                      | Pass       |
|                                              | 1             | 0      | Lowest  | 13.86                 | 2.37          | 10.40         | 21.89                     | Vertical                        | Pass       |
|                                              | 1             | 0      | Middle  | 13.68                 | 2.39          | 10.42         | 21.71                     | Vertical                        | Pass       |
|                                              | 1             | 0      | Highest | 13.92                 | 2.40          | 10.44         | 21.96                     | Vertical                        | Pass       |
| 16QAM                                        | 1             | 0      | Lowest  | 12.25                 | 2.37          | 10.40         | 20.28                     | Horizontal                      | Pass       |
|                                              | 1             | 0      | Middle  | 12.2                  | 2.39          | 10.42         | 20.23                     | Horizontal                      | Pass       |
|                                              | 1             | 0      | Highest | 12.12                 | 2.40          | 10.44         | 20.16                     | Horizontal                      | Pass       |
|                                              | 1             | 0      | Lowest  | 13.6                  | 2.37          | 10.40         | 21.63                     | Vertical                        | Pass       |
|                                              | 1             | 0      | Middle  | 13.51                 | 2.39          | 10.42         | 21.54                     | Vertical                        | Pass       |
|                                              | 1             | 0      | Highest | 13.55                 | 2.40          | 10.44         | 21.59                     | Vertical                        | Pass       |
| Limit                                        | EIRP<2W=33dBm |        |         |                       |               |               |                           |                                 |            |

| Radiated Power (EIRP) for LTE Band 25 / 3M |               |        |         |                       |               |               |                           |                                 |            |
|--------------------------------------------|---------------|--------|---------|-----------------------|---------------|---------------|---------------------------|---------------------------------|------------|
| Modulation                                 | RB            |        | Channel | Result                |               |               |                           |                                 | Conclusion |
|                                            | Size          | Offset |         | S<br>G.Level<br>(dBm) | Cable<br>loss | Gain<br>(dBi) | PMeas<br>E.I.<br>R.P(dBm) | Polarization<br>Of Max.<br>EIRP |            |
| QPSK                                       | 1             | 0      | Lowest  | 12.23                 | 2.37          | 10.40         | 20.26                     | Horizontal                      | Pass       |
|                                            | 1             | 0      | Middle  | 12.03                 | 2.39          | 10.42         | 20.06                     | Horizontal                      | Pass       |
|                                            | 1             | 0      | Highest | 12.32                 | 2.40          | 10.44         | 20.36                     | Horizontal                      | Pass       |
|                                            | 1             | 0      | Lowest  | 13.56                 | 2.37          | 10.40         | 21.59                     | Vertical                        | Pass       |
|                                            | 1             | 0      | Middle  | 13.53                 | 2.39          | 10.42         | 21.56                     | Vertical                        | Pass       |
|                                            | 1             | 0      | Highest | 13.73                 | 2.40          | 10.44         | 21.77                     | Vertical                        | Pass       |
| 16QAM                                      | 1             | 0      | Lowest  | 11.93                 | 2.37          | 10.40         | 19.96                     | Horizontal                      | Pass       |
|                                            | 1             | 0      | Middle  | 12.08                 | 2.39          | 10.42         | 20.11                     | Horizontal                      | Pass       |
|                                            | 1             | 0      | Highest | 12.11                 | 2.40          | 10.44         | 20.15                     | Horizontal                      | Pass       |
|                                            | 1             | 0      | Lowest  | 13.25                 | 2.37          | 10.40         | 21.28                     | Vertical                        | Pass       |
|                                            | 1             | 0      | Middle  | 13.4                  | 2.39          | 10.42         | 21.43                     | Vertical                        | Pass       |
|                                            | 1             | 0      | Highest | 13.49                 | 2.40          | 10.44         | 21.53                     | Vertical                        | Pass       |
| Limit                                      | EIRP<2W=33dBm |        |         |                       |               |               |                           |                                 |            |



| Radiated Power (EIRP) for LTE Band 25 / 5M |               |        |         |                       |               |               |                           |                                 |            |
|--------------------------------------------|---------------|--------|---------|-----------------------|---------------|---------------|---------------------------|---------------------------------|------------|
| Modulation                                 | RB            |        | Channel | Result                |               |               |                           |                                 | Conclusion |
|                                            | Size          | Offset |         | S<br>G.Level<br>(dBm) | Cable<br>loss | Gain<br>(dBi) | PMeas<br>E.I.<br>R.P(dBm) | Polarization<br>Of Max.<br>EIRP |            |
| QPSK                                       | 1             | 0      | Lowest  | 11.95                 | 2.37          | 10.40         | 19.98                     | Horizontal                      | Pass       |
|                                            | 1             | 0      | Middle  | 12.1                  | 2.39          | 10.42         | 20.13                     | Horizontal                      | Pass       |
|                                            | 1             | 0      | Highest | 12.13                 | 2.40          | 10.44         | 20.17                     | Horizontal                      | Pass       |
|                                            | 1             | 0      | Lowest  | 13.44                 | 2.37          | 10.40         | 21.47                     | Vertical                        | Pass       |
|                                            | 1             | 0      | Middle  | 13.53                 | 2.39          | 10.42         | 21.56                     | Vertical                        | Pass       |
|                                            | 1             | 0      | Highest | 13.5                  | 2.40          | 10.44         | 21.54                     | Vertical                        | Pass       |
| 16QAM                                      | 1             | 0      | Lowest  | 11.81                 | 2.37          | 10.40         | 19.84                     | Horizontal                      | Pass       |
|                                            | 1             | 0      | Middle  | 11.81                 | 2.39          | 10.42         | 19.84                     | Horizontal                      | Pass       |
|                                            | 1             | 0      | Highest | 11.79                 | 2.40          | 10.44         | 19.83                     | Horizontal                      | Pass       |
|                                            | 1             | 0      | Lowest  | 13.13                 | 2.37          | 10.40         | 21.16                     | Vertical                        | Pass       |
|                                            | 1             | 0      | Middle  | 13.31                 | 2.39          | 10.42         | 21.34                     | Vertical                        | Pass       |
|                                            | 1             | 0      | Highest | 13.25                 | 2.40          | 10.44         | 21.29                     | Vertical                        | Pass       |
| Limit                                      | EIRP<2W=33dBm |        |         |                       |               |               |                           |                                 |            |

| Radiated Power (EIRP) for LTE Band 25 / 10M |               |        |         |                       |               |               |                           |                                 |            |
|---------------------------------------------|---------------|--------|---------|-----------------------|---------------|---------------|---------------------------|---------------------------------|------------|
| Modulation                                  | RB            |        | Channel | Result                |               |               |                           |                                 | Conclusion |
|                                             | Size          | Offset |         | S<br>G.Level<br>(dBm) | Cable<br>loss | Gain<br>(dBi) | PMeas<br>E.I.<br>R.P(dBm) | Polarization<br>Of Max.<br>EIRP |            |
| QPSK                                        | 1             | 0      | Lowest  | 12.63                 | 2.37          | 10.40         | 20.66                     | Horizontal                      | Pass       |
|                                             | 1             | 0      | Middle  | 12.28                 | 2.39          | 10.42         | 20.31                     | Horizontal                      | Pass       |
|                                             | 1             | 0      | Highest | 12.44                 | 2.40          | 10.44         | 20.48                     | Horizontal                      | Pass       |
|                                             | 1             | 0      | Lowest  | 13.93                 | 2.37          | 10.40         | 21.96                     | Vertical                        | Pass       |
|                                             | 1             | 0      | Middle  | 13.67                 | 2.39          | 10.42         | 21.70                     | Vertical                        | Pass       |
|                                             | 1             | 0      | Highest | 13.88                 | 2.40          | 10.44         | 21.92                     | Vertical                        | Pass       |
| 16QAM                                       | 1             | 0      | Lowest  | 12.24                 | 2.37          | 10.40         | 20.27                     | Horizontal                      | Pass       |
|                                             | 1             | 0      | Middle  | 11.98                 | 2.39          | 10.42         | 20.01                     | Horizontal                      | Pass       |
|                                             | 1             | 0      | Highest | 12.24                 | 2.40          | 10.44         | 20.28                     | Horizontal                      | Pass       |
|                                             | 1             | 0      | Lowest  | 13.64                 | 2.37          | 10.40         | 21.67                     | Vertical                        | Pass       |
|                                             | 1             | 0      | Middle  | 13.43                 | 2.39          | 10.42         | 21.46                     | Vertical                        | Pass       |
|                                             | 1             | 0      | Highest | 13.69                 | 2.40          | 10.44         | 21.73                     | Vertical                        | Pass       |
| Limit                                       | EIRP<2W=33dBm |        |         |                       |               |               |                           |                                 |            |



| Radiated Power (EIRP) for LTE Band 25 / 15M |               |        |         |                       |               |               |                           |                                 |            |
|---------------------------------------------|---------------|--------|---------|-----------------------|---------------|---------------|---------------------------|---------------------------------|------------|
| Modulation                                  | RB            |        | Channel | Result                |               |               |                           |                                 | Conclusion |
|                                             | Size          | Offset |         | S<br>G.Level<br>(dBm) | Cable<br>loss | Gain<br>(dBi) | PMeas<br>E.I.<br>R.P(dBm) | Polarization<br>Of Max.<br>EIRP |            |
| QPSK                                        | 1             | 0      | Lowest  | 12.46                 | 2.37          | 10.40         | 20.49                     | Horizontal                      | Pass       |
|                                             | 1             | 0      | Middle  | 12.41                 | 2.39          | 10.42         | 20.44                     | Horizontal                      | Pass       |
|                                             | 1             | 0      | Highest | 12.48                 | 2.40          | 10.44         | 20.52                     | Horizontal                      | Pass       |
|                                             | 1             | 0      | Lowest  | 13.8                  | 2.37          | 10.40         | 21.83                     | Vertical                        | Pass       |
|                                             | 1             | 0      | Middle  | 13.75                 | 2.39          | 10.42         | 21.78                     | Vertical                        | Pass       |
|                                             | 1             | 0      | Highest | 13.94                 | 2.40          | 10.44         | 21.98                     | Vertical                        | Pass       |
| 16QAM                                       | 1             | 0      | Lowest  | 11.98                 | 2.37          | 10.40         | 20.01                     | Horizontal                      | Pass       |
|                                             | 1             | 0      | Middle  | 12.29                 | 2.39          | 10.42         | 20.32                     | Horizontal                      | Pass       |
|                                             | 1             | 0      | Highest | 12.34                 | 2.40          | 10.44         | 20.38                     | Horizontal                      | Pass       |
|                                             | 1             | 0      | Lowest  | 13.42                 | 2.37          | 10.40         | 21.45                     | Vertical                        | Pass       |
|                                             | 1             | 0      | Middle  | 13.6                  | 2.39          | 10.42         | 21.63                     | Vertical                        | Pass       |
|                                             | 1             | 0      | Highest | 13.7                  | 2.40          | 10.44         | 21.74                     | Vertical                        | Pass       |
| Limit                                       | EIRP<2W=33dBm |        |         |                       |               |               |                           |                                 |            |

| Radiated Power (EIRP) for LTE Band 25 / 20M |               |        |         |                       |               |               |                           |                                 |            |
|---------------------------------------------|---------------|--------|---------|-----------------------|---------------|---------------|---------------------------|---------------------------------|------------|
| Modulation                                  | RB            |        | Channel | Result                |               |               |                           |                                 | Conclusion |
|                                             | Size          | Offset |         | S<br>G.Level<br>(dBm) | Cable<br>loss | Gain<br>(dBi) | PMeas<br>E.I.<br>R.P(dBm) | Polarization<br>Of Max.<br>EIRP |            |
| QPSK                                        | 1             | 0      | Lowest  | 12.54                 | 2.37          | 10.40         | 20.57                     | Horizontal                      | Pass       |
|                                             | 1             | 0      | Middle  | 12.69                 | 2.39          | 10.42         | 20.72                     | Horizontal                      | Pass       |
|                                             | 1             | 0      | Highest | 12.74                 | 2.40          | 10.44         | 20.78                     | Horizontal                      | Pass       |
|                                             | 1             | 0      | Lowest  | 13.99                 | 2.37          | 10.40         | 22.02                     | Vertical                        | Pass       |
|                                             | 1             | 0      | Middle  | 14.16                 | 2.39          | 10.42         | 22.19                     | Vertical                        | Pass       |
|                                             | 1             | 0      | Highest | 14.13                 | 2.40          | 10.44         | 22.17                     | Vertical                        | Pass       |
| 16QAM                                       | 1             | 0      | Lowest  | 12.39                 | 2.37          | 10.40         | 20.42                     | Horizontal                      | Pass       |
|                                             | 1             | 0      | Middle  | 12.59                 | 2.39          | 10.42         | 20.62                     | Horizontal                      | Pass       |
|                                             | 1             | 0      | Highest | 12.47                 | 2.40          | 10.44         | 20.51                     | Horizontal                      | Pass       |
|                                             | 1             | 0      | Lowest  | 13.74                 | 2.37          | 10.40         | 21.77                     | Vertical                        | Pass       |
|                                             | 1             | 0      | Middle  | 13.93                 | 2.39          | 10.42         | 21.96                     | Vertical                        | Pass       |
|                                             | 1             | 0      | Highest | 13.82                 | 2.40          | 10.44         | 21.86                     | Vertical                        | Pass       |
| Limit                                       | EIRP<2W=33dBm |        |         |                       |               |               |                           |                                 |            |



| Radiated Power (ERP) for LTE Band 26(Part 22) / 1.4M |                 |        |         |                       |               |               |                          |                     |                                |            |
|------------------------------------------------------|-----------------|--------|---------|-----------------------|---------------|---------------|--------------------------|---------------------|--------------------------------|------------|
| Modulation                                           | RB              |        | Channel | Result                |               |               |                          |                     |                                | Conclusion |
|                                                      | Size            | Offset |         | S<br>G.Level<br>(dBm) | Cable<br>loss | Gain<br>(dBi) | correction<br>factor(dB) | PMeas<br>E.R.P(dBm) | Polarization<br>Of Max.<br>ERP |            |
| QPSK                                                 | 1               | 0      | Lowest  | 15.53                 | 2.35          | 10.13         | 2.15                     | 21.16               | Horizontal                     | Pass       |
|                                                      | 1               | 0      | Middle  | 15.3                  | 2.36          | 10.16         | 2.15                     | 20.95               | Horizontal                     | Pass       |
|                                                      | 1               | 0      | Highest | 15.44                 | 2.37          | 10.22         | 2.15                     | 21.14               | Horizontal                     | Pass       |
|                                                      | 1               | 0      | Lowest  | 16.9                  | 2.35          | 10.13         | 2.15                     | 22.53               | Vertical                       | Pass       |
|                                                      | 1               | 0      | Middle  | 16.72                 | 2.36          | 10.16         | 2.15                     | 22.37               | Vertical                       | Pass       |
|                                                      | 1               | 0      | Highest | 16.83                 | 2.37          | 10.22         | 2.15                     | 22.53               | Vertical                       | Pass       |
| 16QAM                                                | 1               | 0      | Lowest  | 15.2                  | 2.35          | 10.13         | 2.15                     | 20.83               | Horizontal                     | Pass       |
|                                                      | 1               | 0      | Middle  | 15.11                 | 2.36          | 10.16         | 2.15                     | 20.76               | Horizontal                     | Pass       |
|                                                      | 1               | 0      | Highest | 15.14                 | 2.37          | 10.22         | 2.15                     | 20.84               | Horizontal                     | Pass       |
|                                                      | 1               | 0      | Lowest  | 16.56                 | 2.35          | 10.13         | 2.15                     | 22.19               | Vertical                       | Pass       |
|                                                      | 1               | 0      | Middle  | 16.53                 | 2.36          | 10.16         | 2.15                     | 22.18               | Vertical                       | Pass       |
|                                                      | 1               | 0      | Highest | 16.5                  | 2.37          | 10.22         | 2.15                     | 22.20               | Vertical                       | Pass       |
| Limit                                                | ERP<7W=38.45dBm |        |         |                       |               |               |                          |                     |                                |            |

| Radiated Power (ERP) for LTE Band 26(Part 22) / 3M |                 |        |         |                       |               |               |                          |                     |                                |            |
|----------------------------------------------------|-----------------|--------|---------|-----------------------|---------------|---------------|--------------------------|---------------------|--------------------------------|------------|
| Modulation                                         | RB              |        | Channel | Result                |               |               |                          |                     |                                | Conclusion |
|                                                    | Size            | Offset |         | S<br>G.Level<br>(dBm) | Cable<br>loss | Gain<br>(dBi) | correction<br>factor(dB) | PMeas<br>E.R.P(dBm) | Polarization<br>Of Max.<br>ERP |            |
| QPSK                                               | 1               | 0      | Lowest  | 15                    | 2.35          | 10.13         | 2.15                     | 20.63               | Horizontal                     | Pass       |
|                                                    | 1               | 0      | Middle  | 15.07                 | 2.36          | 10.16         | 2.15                     | 20.72               | Horizontal                     | Pass       |
|                                                    | 1               | 0      | Highest | 15.28                 | 2.37          | 10.22         | 2.15                     | 20.98               | Horizontal                     | Pass       |
|                                                    | 1               | 0      | Lowest  | 16.44                 | 2.35          | 10.13         | 2.15                     | 22.07               | Vertical                       | Pass       |
|                                                    | 1               | 0      | Middle  | 16.55                 | 2.36          | 10.16         | 2.15                     | 22.20               | Vertical                       | Pass       |
|                                                    | 1               | 0      | Highest | 16.61                 | 2.37          | 10.22         | 2.15                     | 22.31               | Vertical                       | Pass       |
| 16QAM                                              | 1               | 0      | Lowest  | 14.81                 | 2.35          | 10.13         | 2.15                     | 20.44               | Horizontal                     | Pass       |
|                                                    | 1               | 0      | Middle  | 14.82                 | 2.36          | 10.16         | 2.15                     | 20.47               | Horizontal                     | Pass       |
|                                                    | 1               | 0      | Highest | 14.91                 | 2.37          | 10.22         | 2.15                     | 20.61               | Horizontal                     | Pass       |
|                                                    | 1               | 0      | Lowest  | 16.19                 | 2.35          | 10.13         | 2.15                     | 21.82               | Vertical                       | Pass       |
|                                                    | 1               | 0      | Middle  | 16.26                 | 2.36          | 10.16         | 2.15                     | 21.91               | Vertical                       | Pass       |
|                                                    | 1               | 0      | Highest | 16.38                 | 2.37          | 10.22         | 2.15                     | 22.08               | Vertical                       | Pass       |
| Limit                                              | ERP<7W=38.45dBm |        |         |                       |               |               |                          |                     |                                |            |



| Radiated Power (ERP) for LTE Band 26(Part 22) / 5M |                 |        |         |                       |               |               |                          |                     |                                |            |
|----------------------------------------------------|-----------------|--------|---------|-----------------------|---------------|---------------|--------------------------|---------------------|--------------------------------|------------|
| Modulation                                         | RB              |        | Channel | Result                |               |               |                          |                     |                                | Conclusion |
|                                                    | Size            | Offset |         | S<br>G.Level<br>(dBm) | Cable<br>loss | Gain<br>(dBi) | correction<br>factor(dB) | PMeas<br>E.R.P(dBm) | Polarization<br>Of Max.<br>ERP |            |
| QPSK                                               | 1               | 0      | Lowest  | 15.27                 | 2.35          | 10.13         | 2.15                     | 20.90               | Horizontal                     | Pass       |
|                                                    | 1               | 0      | Middle  | 15.4                  | 2.36          | 10.16         | 2.15                     | 21.05               | Horizontal                     | Pass       |
|                                                    | 1               | 0      | Highest | 15.4                  | 2.37          | 10.22         | 2.15                     | 21.10               | Horizontal                     | Pass       |
|                                                    | 1               | 0      | Lowest  | 16.59                 | 2.35          | 10.13         | 2.15                     | 22.22               | Vertical                       | Pass       |
|                                                    | 1               | 0      | Middle  | 16.72                 | 2.36          | 10.16         | 2.15                     | 22.37               | Vertical                       | Pass       |
|                                                    | 1               | 0      | Highest | 16.72                 | 2.37          | 10.22         | 2.15                     | 22.42               | Vertical                       | Pass       |
| 16QAM                                              | 1               | 0      | Lowest  | 14.82                 | 2.35          | 10.13         | 2.15                     | 20.45               | Horizontal                     | Pass       |
|                                                    | 1               | 0      | Middle  | 15.05                 | 2.36          | 10.16         | 2.15                     | 20.70               | Horizontal                     | Pass       |
|                                                    | 1               | 0      | Highest | 15.01                 | 2.37          | 10.22         | 2.15                     | 20.71               | Horizontal                     | Pass       |
|                                                    | 1               | 0      | Lowest  | 16.31                 | 2.35          | 10.13         | 2.15                     | 21.94               | Vertical                       | Pass       |
|                                                    | 1               | 0      | Middle  | 16.45                 | 2.36          | 10.16         | 2.15                     | 22.10               | Vertical                       | Pass       |
|                                                    | 1               | 0      | Highest | 16.44                 | 2.37          | 10.22         | 2.15                     | 22.14               | Vertical                       | Pass       |
| Limit                                              | ERP<7W=38.45dBm |        |         |                       |               |               |                          |                     |                                |            |

| Radiated Power (ERP) for LTE Band 26(Part 22) / 10M |                 |        |         |                       |               |               |                          |                     |                                |            |
|-----------------------------------------------------|-----------------|--------|---------|-----------------------|---------------|---------------|--------------------------|---------------------|--------------------------------|------------|
| Modulation                                          | RB              |        | Channel | Result                |               |               |                          |                     |                                | Conclusion |
|                                                     | Size            | Offset |         | S<br>G.Level<br>(dBm) | Cable<br>loss | Gain<br>(dBi) | correction<br>factor(dB) | PMeas<br>E.R.P(dBm) | Polarization<br>Of Max.<br>ERP |            |
| QPSK                                                | 1               | 0      | Lowest  | 15                    | 2.35          | 10.13         | 2.15                     | 20.63               | Horizontal                     | Pass       |
|                                                     | 1               | 0      | Middle  | 15.13                 | 2.36          | 10.16         | 2.15                     | 20.78               | Horizontal                     | Pass       |
|                                                     | 1               | 0      | Highest | 14.61                 | 2.37          | 10.22         | 2.15                     | 20.31               | Horizontal                     | Pass       |
|                                                     | 1               | 0      | Lowest  | 16.48                 | 2.35          | 10.13         | 2.15                     | 22.11               | Vertical                       | Pass       |
|                                                     | 1               | 0      | Middle  | 16.44                 | 2.36          | 10.16         | 2.15                     | 22.09               | Vertical                       | Pass       |
|                                                     | 1               | 0      | Highest | 16.03                 | 2.37          | 10.22         | 2.15                     | 21.73               | Vertical                       | Pass       |
| 16QAM                                               | 1               | 0      | Lowest  | 14.82                 | 2.35          | 10.13         | 2.15                     | 20.45               | Horizontal                     | Pass       |
|                                                     | 1               | 0      | Middle  | 14.87                 | 2.36          | 10.16         | 2.15                     | 20.52               | Horizontal                     | Pass       |
|                                                     | 1               | 0      | Highest | 14.3                  | 2.37          | 10.22         | 2.15                     | 20.00               | Horizontal                     | Pass       |
|                                                     | 1               | 0      | Lowest  | 16.18                 | 2.35          | 10.13         | 2.15                     | 21.81               | Vertical                       | Pass       |
|                                                     | 1               | 0      | Middle  | 16.22                 | 2.36          | 10.16         | 2.15                     | 21.87               | Vertical                       | Pass       |
|                                                     | 1               | 0      | Highest | 15.78                 | 2.37          | 10.22         | 2.15                     | 21.48               | Vertical                       | Pass       |
| Limit                                               | ERP<7W=38.45dBm |        |         |                       |               |               |                          |                     |                                |            |



| Radiated Power (ERP) for LTE Band 26(Part 22) / 15M |                 |        |         |                       |               |               |                          |                     |                                |            |
|-----------------------------------------------------|-----------------|--------|---------|-----------------------|---------------|---------------|--------------------------|---------------------|--------------------------------|------------|
| Modulation                                          | RB              |        | Channel | Result                |               |               |                          |                     |                                | Conclusion |
|                                                     | Size            | Offset |         | S<br>G.Level<br>(dBm) | Cable<br>loss | Gain<br>(dBi) | correction<br>factor(dB) | PMeas<br>E.R.P(dBm) | Polarization<br>Of Max.<br>ERP |            |
| QPSK                                                | 1               | 0      | Lowest  | 15.59                 | 2.35          | 10.13         | 2.15                     | 21.22               | Horizontal                     | Pass       |
|                                                     | 1               | 0      | Middle  | 15.39                 | 2.36          | 10.16         | 2.15                     | 21.04               | Horizontal                     | Pass       |
|                                                     | 1               | 0      | Highest | 15.41                 | 2.37          | 10.22         | 2.15                     | 21.11               | Horizontal                     | Pass       |
|                                                     | 1               | 0      | Lowest  | 16.94                 | 2.35          | 10.13         | 2.15                     | 22.57               | Vertical                       | Pass       |
|                                                     | 1               | 0      | Middle  | 16.83                 | 2.36          | 10.16         | 2.15                     | 22.48               | Vertical                       | Pass       |
|                                                     | 1               | 0      | Highest | 16.87                 | 2.37          | 10.22         | 2.15                     | 22.57               | Vertical                       | Pass       |
| 16QAM                                               | 1               | 0      | Lowest  | 15.13                 | 2.35          | 10.13         | 2.15                     | 20.76               | Horizontal                     | Pass       |
|                                                     | 1               | 0      | Middle  | 15.19                 | 2.36          | 10.16         | 2.15                     | 20.84               | Horizontal                     | Pass       |
|                                                     | 1               | 0      | Highest | 15.14                 | 2.37          | 10.22         | 2.15                     | 20.84               | Horizontal                     | Pass       |
|                                                     | 1               | 0      | Lowest  | 16.57                 | 2.35          | 10.13         | 2.15                     | 22.20               | Vertical                       | Pass       |
|                                                     | 1               | 0      | Middle  | 16.62                 | 2.36          | 10.16         | 2.15                     | 22.27               | Vertical                       | Pass       |
|                                                     | 1               | 0      | Highest | 16.61                 | 2.37          | 10.22         | 2.15                     | 22.31               | Vertical                       | Pass       |
| Limit                                               | ERP<7W=38.45dBm |        |         |                       |               |               |                          |                     |                                |            |



| Radiated Power (ERP) for LTE Band 26(Part 90) / 1.4M |                |        |         |                       |               |               |                          |                     |                                |            |
|------------------------------------------------------|----------------|--------|---------|-----------------------|---------------|---------------|--------------------------|---------------------|--------------------------------|------------|
| Modulation                                           | RB             |        | Channel | Result                |               |               |                          |                     |                                | Conclusion |
|                                                      | Size           | Offset |         | S<br>G.Level<br>(dBm) | Cable<br>loss | Gain<br>(dBi) | correction<br>factor(dB) | PMeas<br>E.R.P(dBm) | Polarization<br>Of Max.<br>ERP |            |
| QPSK                                                 | 1              | 0      | Lowest  | 15.63                 | 2.35          | 10.13         | 2.15                     | 21.26               | Horizontal                     | Pass       |
|                                                      | 1              | 0      | Middle  | 15.48                 | 2.36          | 10.16         | 2.15                     | 21.13               | Horizontal                     | Pass       |
|                                                      | 1              | 0      | Highest | 15.52                 | 2.37          | 10.22         | 2.15                     | 21.22               | Horizontal                     | Pass       |
|                                                      | 1              | 0      | Lowest  | 16.99                 | 2.35          | 10.13         | 2.15                     | 22.62               | Vertical                       | Pass       |
|                                                      | 1              | 0      | Middle  | 16.88                 | 2.36          | 10.16         | 2.15                     | 22.53               | Vertical                       | Pass       |
|                                                      | 1              | 0      | Highest | 16.92                 | 2.37          | 10.22         | 2.15                     | 22.62               | Vertical                       | Pass       |
| 16QAM                                                | 1              | 0      | Lowest  | 15.25                 | 2.35          | 10.13         | 2.15                     | 20.88               | Horizontal                     | Pass       |
|                                                      | 1              | 0      | Middle  | 15.26                 | 2.36          | 10.16         | 2.15                     | 20.91               | Horizontal                     | Pass       |
|                                                      | 1              | 0      | Highest | 15.24                 | 2.37          | 10.22         | 2.15                     | 20.94               | Horizontal                     | Pass       |
|                                                      | 1              | 0      | Lowest  | 16.69                 | 2.35          | 10.13         | 2.15                     | 22.32               | Vertical                       | Pass       |
|                                                      | 1              | 0      | Middle  | 16.57                 | 2.36          | 10.16         | 2.15                     | 22.22               | Vertical                       | Pass       |
|                                                      | 1              | 0      | Highest | 16.64                 | 2.37          | 10.22         | 2.15                     | 22.34               | Vertical                       | Pass       |
| Limit                                                | ERP<100W=50dBm |        |         |                       |               |               |                          |                     |                                |            |

| Radiated Power (ERP) for LTE Band 26(Part 90) / 3M |                |        |         |                       |               |               |                          |                     |                                |            |
|----------------------------------------------------|----------------|--------|---------|-----------------------|---------------|---------------|--------------------------|---------------------|--------------------------------|------------|
| Modulation                                         | RB             |        | Channel | Result                |               |               |                          |                     |                                | Conclusion |
|                                                    | Size           | Offset |         | S<br>G.Level<br>(dBm) | Cable<br>loss | Gain<br>(dBi) | correction<br>factor(dB) | PMeas<br>E.R.P(dBm) | Polarization<br>Of Max.<br>ERP |            |
| QPSK                                               | 1              | 0      | Lowest  | 15.73                 | 2.35          | 10.13         | 2.15                     | 21.36               | Horizontal                     | Pass       |
|                                                    | 1              | 0      | Middle  | 15.52                 | 2.36          | 10.16         | 2.15                     | 21.17               | Horizontal                     | Pass       |
|                                                    | 1              | 0      | Highest | 15.59                 | 2.37          | 10.22         | 2.15                     | 21.29               | Horizontal                     | Pass       |
|                                                    | 1              | 0      | Lowest  | 17.04                 | 2.35          | 10.13         | 2.15                     | 22.67               | Vertical                       | Pass       |
|                                                    | 1              | 0      | Middle  | 16.98                 | 2.36          | 10.16         | 2.15                     | 22.63               | Vertical                       | Pass       |
|                                                    | 1              | 0      | Highest | 16.89                 | 2.37          | 10.22         | 2.15                     | 22.59               | Vertical                       | Pass       |
| 16QAM                                              | 1              | 0      | Lowest  | 15.44                 | 2.35          | 10.13         | 2.15                     | 21.07               | Horizontal                     | Pass       |
|                                                    | 1              | 0      | Middle  | 15.25                 | 2.36          | 10.16         | 2.15                     | 20.90               | Horizontal                     | Pass       |
|                                                    | 1              | 0      | Highest | 15.25                 | 2.37          | 10.22         | 2.15                     | 20.95               | Horizontal                     | Pass       |
|                                                    | 1              | 0      | Lowest  | 16.86                 | 2.35          | 10.13         | 2.15                     | 22.49               | Vertical                       | Pass       |
|                                                    | 1              | 0      | Middle  | 16.72                 | 2.36          | 10.16         | 2.15                     | 22.37               | Vertical                       | Pass       |
|                                                    | 1              | 0      | Highest | 16.7                  | 2.37          | 10.22         | 2.15                     | 22.40               | Vertical                       | Pass       |
| Limit                                              | ERP<100W=50dBm |        |         |                       |               |               |                          |                     |                                |            |



| Radiated Power (ERP) for LTE Band 26(Part 90) / 5M |                |        |         |                       |               |               |                          |                     |                                |            |
|----------------------------------------------------|----------------|--------|---------|-----------------------|---------------|---------------|--------------------------|---------------------|--------------------------------|------------|
| Modulation                                         | RB             |        | Channel | Result                |               |               |                          |                     |                                | Conclusion |
|                                                    | Size           | Offset |         | S<br>G.Level<br>(dBm) | Cable<br>loss | Gain<br>(dBi) | correction<br>factor(dB) | PMeas<br>E.R.P(dBm) | Polarization<br>Of Max.<br>ERP |            |
| QPSK                                               | 1              | 0      | Lowest  | 15.84                 | 2.35          | 10.13         | 2.15                     | 21.47               | Horizontal                     | Pass       |
|                                                    | 1              | 0      | Middle  | 15.67                 | 2.36          | 10.16         | 2.15                     | 21.32               | Horizontal                     | Pass       |
|                                                    | 1              | 0      | Highest | 15.56                 | 2.37          | 10.22         | 2.15                     | 21.26               | Horizontal                     | Pass       |
|                                                    | 1              | 0      | Lowest  | 17.15                 | 2.35          | 10.13         | 2.15                     | 22.78               | Vertical                       | Pass       |
|                                                    | 1              | 0      | Middle  | 16.99                 | 2.36          | 10.16         | 2.15                     | 22.64               | Vertical                       | Pass       |
|                                                    | 1              | 0      | Highest | 17.05                 | 2.37          | 10.22         | 2.15                     | 22.75               | Vertical                       | Pass       |
| 16QAM                                              | 1              | 0      | Lowest  | 15.52                 | 2.35          | 10.13         | 2.15                     | 21.15               | Horizontal                     | Pass       |
|                                                    | 1              | 0      | Middle  | 15.4                  | 2.36          | 10.16         | 2.15                     | 21.05               | Horizontal                     | Pass       |
|                                                    | 1              | 0      | Highest | 15.44                 | 2.37          | 10.22         | 2.15                     | 21.14               | Horizontal                     | Pass       |
|                                                    | 1              | 0      | Lowest  | 16.88                 | 2.35          | 10.13         | 2.15                     | 22.51               | Vertical                       | Pass       |
|                                                    | 1              | 0      | Middle  | 16.85                 | 2.36          | 10.16         | 2.15                     | 22.50               | Vertical                       | Pass       |
|                                                    | 1              | 0      | Highest | 16.74                 | 2.37          | 10.22         | 2.15                     | 22.44               | Vertical                       | Pass       |
| Limit                                              | ERP<100W=50dBm |        |         |                       |               |               |                          |                     |                                |            |

| Radiated Power (ERP) for LTE Band 26(Part 90) / 10M |                |        |         |                       |               |               |                          |                     |                                |            |
|-----------------------------------------------------|----------------|--------|---------|-----------------------|---------------|---------------|--------------------------|---------------------|--------------------------------|------------|
| Modulation                                          | RB             |        | Channel | Result                |               |               |                          |                     |                                | Conclusion |
|                                                     | Size           | Offset |         | S<br>G.Level<br>(dBm) | Cable<br>loss | Gain<br>(dBi) | correction<br>factor(dB) | PMeas<br>E.R.P(dBm) | Polarization<br>Of Max.<br>ERP |            |
| QPSK                                                | 1              | 0      | Middle  | 15.97                 | 2.36          | 10.16         | 2.15                     | 21.62               | Horizontal                     | Pass       |
|                                                     | 1              | 0      | Middle  | 17.21                 | 2.36          | 10.16         | 2.15                     | 22.86               | Vertical                       | Pass       |
| 16QAM                                               | 1              | 0      | Middle  | 15.61                 | 2.36          | 10.16         | 2.15                     | 21.26               | Horizontal                     | Pass       |
|                                                     | 1              | 0      | Middle  | 16.83                 | 2.36          | 10.16         | 2.15                     | 22.48               | Vertical                       | Pass       |
| Limit                                               | ERP<100W=50dBm |        |         |                       |               |               |                          |                     |                                |            |



| Radiated Power (EIRP) for LTE Band 41 / 15M |               |        |         |                       |               |               |                        |                                 |            |
|---------------------------------------------|---------------|--------|---------|-----------------------|---------------|---------------|------------------------|---------------------------------|------------|
| Modulation                                  | RB            |        | Channel | Result                |               |               |                        |                                 | Conclusion |
|                                             | Size          | Offset |         | S<br>G.Level<br>(dBm) | Cable<br>loss | Gain<br>(dBi) | PMeas<br>E.I.R.P.(dBm) | Polarization<br>Of Max.<br>EIRP |            |
| QPSK                                        | 1             | 0      | Lowest  | 12.14                 | 2.56          | 10.60         | 20.18                  | Horizontal                      | Pass       |
|                                             | 1             | 0      | Middle  | 11.97                 | 2.67          | 10.65         | 19.95                  | Horizontal                      | Pass       |
|                                             | 1             | 0      | Highest | 12.23                 | 2.72          | 10.70         | 20.21                  | Horizontal                      | Pass       |
|                                             | 1             | 0      | Lowest  | 13.51                 | 2.56          | 10.60         | 21.55                  | Vertical                        | Pass       |
|                                             | 1             | 0      | Middle  | 13.45                 | 2.67          | 10.65         | 21.43                  | Vertical                        | Pass       |
|                                             | 1             | 0      | Highest | 13.59                 | 2.72          | 10.70         | 21.57                  | Vertical                        | Pass       |
| 16QAM                                       | 1             | 0      | Lowest  | 11.81                 | 2.56          | 10.60         | 19.85                  | Horizontal                      | Pass       |
|                                             | 1             | 0      | Middle  | 11.71                 | 2.67          | 10.65         | 19.69                  | Horizontal                      | Pass       |
|                                             | 1             | 0      | Highest | 12.1                  | 2.72          | 10.70         | 20.08                  | Horizontal                      | Pass       |
|                                             | 1             | 0      | Lowest  | 13.16                 | 2.56          | 10.60         | 21.20                  | Vertical                        | Pass       |
|                                             | 1             | 0      | Middle  | 13.2                  | 2.67          | 10.65         | 21.18                  | Vertical                        | Pass       |
|                                             | 1             | 0      | Highest | 13.45                 | 2.72          | 10.70         | 21.43                  | Vertical                        | Pass       |
| Limit                                       | EIRP<2W=33dBm |        |         |                       |               |               |                        |                                 |            |

| Radiated Power (EIRP) for LTE Band 41 / 20M |               |        |         |                       |               |               |                        |                                 |            |
|---------------------------------------------|---------------|--------|---------|-----------------------|---------------|---------------|------------------------|---------------------------------|------------|
| Modulation                                  | RB            |        | Channel | Result                |               |               |                        |                                 | Conclusion |
|                                             | Size          | Offset |         | S<br>G.Level<br>(dBm) | Cable<br>loss | Gain<br>(dBi) | PMeas<br>E.I.R.P.(dBm) | Polarization<br>Of Max.<br>EIRP |            |
| QPSK                                        | 1             | 0      | Lowest  | 12.28                 | 2.56          | 10.60         | 20.32                  | Horizontal                      | Pass       |
|                                             | 1             | 0      | Middle  | 12.58                 | 2.67          | 10.65         | 20.56                  | Horizontal                      | Pass       |
|                                             | 1             | 0      | Highest | 12.56                 | 2.72          | 10.70         | 20.54                  | Horizontal                      | Pass       |
|                                             | 1             | 0      | Lowest  | 13.72                 | 2.56          | 10.60         | 21.76                  | Vertical                        | Pass       |
|                                             | 1             | 0      | Middle  | 13.96                 | 2.67          | 10.65         | 21.94                  | Vertical                        | Pass       |
|                                             | 1             | 0      | Highest | 13.88                 | 2.72          | 10.70         | 21.86                  | Vertical                        | Pass       |
| 16QAM                                       | 1             | 0      | Lowest  | 11.96                 | 2.56          | 10.60         | 20.00                  | Horizontal                      | Pass       |
|                                             | 1             | 0      | Middle  | 12.29                 | 2.67          | 10.65         | 20.27                  | Horizontal                      | Pass       |
|                                             | 1             | 0      | Highest | 12.18                 | 2.72          | 10.70         | 20.16                  | Horizontal                      | Pass       |
|                                             | 1             | 0      | Lowest  | 13.31                 | 2.56          | 10.60         | 21.35                  | Vertical                        | Pass       |
|                                             | 1             | 0      | Middle  | 13.65                 | 2.67          | 10.65         | 21.63                  | Vertical                        | Pass       |
|                                             | 1             | 0      | Highest | 13.55                 | 2.72          | 10.70         | 21.53                  | Vertical                        | Pass       |
| Limit                                       | EIRP<2W=33dBm |        |         |                       |               |               |                        |                                 |            |

| Radiated Power (EIRP) for LTE Band 66 / 1.4M |               |        |         |                       |               |               |                        |                                 |            |
|----------------------------------------------|---------------|--------|---------|-----------------------|---------------|---------------|------------------------|---------------------------------|------------|
| Modulation                                   | RB            |        | Channel | Result                |               |               |                        |                                 | Conclusion |
|                                              | Size          | Offset |         | S<br>G.Level<br>(dBm) | Cable<br>loss | Gain<br>(dBi) | PMeas<br>E.I.R.P.(dBm) | Polarization<br>Of Max.<br>EIRP |            |
| QPSK                                         | 1             | 0      | Lowest  | 12.42                 | 2.35          | 10.13         | 20.20                  | Horizontal                      | Pass       |
|                                              | 1             | 0      | Middle  | 12.3                  | 2.36          | 10.16         | 20.10                  | Horizontal                      | Pass       |
|                                              | 1             | 0      | Highest | 12.2                  | 2.37          | 10.22         | 20.05                  | Horizontal                      | Pass       |
|                                              | 1             | 0      | Lowest  | 13.8                  | 2.35          | 10.13         | 21.58                  | Vertical                        | Pass       |
|                                              | 1             | 0      | Middle  | 13.76                 | 2.36          | 10.16         | 21.56                  | Vertical                        | Pass       |
|                                              | 1             | 0      | Highest | 13.66                 | 2.37          | 10.22         | 21.51                  | Vertical                        | Pass       |
| 16QAM                                        | 1             | 0      | Lowest  | 12.09                 | 2.35          | 10.13         | 19.87                  | Horizontal                      | Pass       |
|                                              | 1             | 0      | Middle  | 12.09                 | 2.36          | 10.16         | 19.89                  | Horizontal                      | Pass       |
|                                              | 1             | 0      | Highest | 12.03                 | 2.37          | 10.22         | 19.88                  | Horizontal                      | Pass       |
|                                              | 1             | 0      | Lowest  | 13.47                 | 2.35          | 10.13         | 21.25                  | Vertical                        | Pass       |
|                                              | 1             | 0      | Middle  | 13.49                 | 2.36          | 10.16         | 21.29                  | Vertical                        | Pass       |
|                                              | 1             | 0      | Highest | 13.44                 | 2.37          | 10.22         | 21.29                  | Vertical                        | Pass       |
| Limit                                        | EIRP<1W=30dBm |        |         |                       |               |               |                        |                                 |            |



| Radiated Power (EIRP) for LTE Band 66 / 3M |               |        |         |                       |               |               |                        |                                 |            |
|--------------------------------------------|---------------|--------|---------|-----------------------|---------------|---------------|------------------------|---------------------------------|------------|
| Modulation                                 | RB            |        | Channel | Result                |               |               |                        |                                 | Conclusion |
|                                            | Size          | Offset |         | S<br>G.Level<br>(dBm) | Cable<br>loss | Gain<br>(dBi) | PMeas<br>E.I.R.P.(dBm) | Polarization<br>Of Max.<br>EIRP |            |
| QPSK                                       | 1             | 0      | Lowest  | 12.06                 | 2.35          | 10.13         | 19.84                  | Horizontal                      | Pass       |
|                                            | 1             | 0      | Middle  | 12.2                  | 2.36          | 10.16         | 20.00                  | Horizontal                      | Pass       |
|                                            | 1             | 0      | Highest | 12.13                 | 2.37          | 10.22         | 19.98                  | Horizontal                      | Pass       |
|                                            | 1             | 0      | Lowest  | 13.48                 | 2.35          | 10.13         | 21.26                  | Vertical                        | Pass       |
|                                            | 1             | 0      | Middle  | 13.66                 | 2.36          | 10.16         | 21.46                  | Vertical                        | Pass       |
|                                            | 1             | 0      | Highest | 13.55                 | 2.37          | 10.22         | 21.40                  | Vertical                        | Pass       |
| 16QAM                                      | 1             | 0      | Lowest  | 11.94                 | 2.35          | 10.13         | 19.72                  | Horizontal                      | Pass       |
|                                            | 1             | 0      | Middle  | 11.91                 | 2.36          | 10.16         | 19.71                  | Horizontal                      | Pass       |
|                                            | 1             | 0      | Highest | 11.8                  | 2.37          | 10.22         | 19.65                  | Horizontal                      | Pass       |
|                                            | 1             | 0      | Lowest  | 13.32                 | 2.35          | 10.13         | 21.10                  | Vertical                        | Pass       |
|                                            | 1             | 0      | Middle  | 13.4                  | 2.36          | 10.16         | 21.20                  | Vertical                        | Pass       |
|                                            | 1             | 0      | Highest | 13.23                 | 2.37          | 10.22         | 21.08                  | Vertical                        | Pass       |
| Limit                                      | EIRP<1W=30dBm |        |         |                       |               |               |                        |                                 |            |

| Radiated Power (EIRP) for LTE Band 66 / 5M |               |        |         |                       |               |               |                        |                                 |            |
|--------------------------------------------|---------------|--------|---------|-----------------------|---------------|---------------|------------------------|---------------------------------|------------|
| Modulation                                 | RB            |        | Channel | Result                |               |               |                        |                                 | Conclusion |
|                                            | Size          | Offset |         | S<br>G.Level<br>(dBm) | Cable<br>loss | Gain<br>(dBi) | PMeas<br>E.I.R.P.(dBm) | Polarization<br>Of Max.<br>EIRP |            |
| QPSK                                       | 1             | 0      | Lowest  | 12.16                 | 2.35          | 10.13         | 19.94                  | Horizontal                      | Pass       |
|                                            | 1             | 0      | Middle  | 12.23                 | 2.36          | 10.16         | 20.03                  | Horizontal                      | Pass       |
|                                            | 1             | 0      | Highest | 12.14                 | 2.37          | 10.22         | 19.99                  | Horizontal                      | Pass       |
|                                            | 1             | 0      | Lowest  | 13.62                 | 2.35          | 10.13         | 21.40                  | Vertical                        | Pass       |
|                                            | 1             | 0      | Middle  | 13.56                 | 2.36          | 10.16         | 21.36                  | Vertical                        | Pass       |
|                                            | 1             | 0      | Highest | 13.46                 | 2.37          | 10.22         | 21.31                  | Vertical                        | Pass       |
| 16QAM                                      | 1             | 0      | Lowest  | 11.83                 | 2.35          | 10.13         | 19.61                  | Horizontal                      | Pass       |
|                                            | 1             | 0      | Middle  | 11.86                 | 2.36          | 10.16         | 19.66                  | Horizontal                      | Pass       |
|                                            | 1             | 0      | Highest | 11.86                 | 2.37          | 10.22         | 19.71                  | Horizontal                      | Pass       |
|                                            | 1             | 0      | Lowest  | 13.32                 | 2.35          | 10.13         | 21.10                  | Vertical                        | Pass       |
|                                            | 1             | 0      | Middle  | 13.33                 | 2.36          | 10.16         | 21.13                  | Vertical                        | Pass       |
|                                            | 1             | 0      | Highest | 13.25                 | 2.37          | 10.22         | 21.10                  | Vertical                        | Pass       |
| Limit                                      | EIRP<1W=30dBm |        |         |                       |               |               |                        |                                 |            |

| Radiated Power (EIRP) for LTE Band 66 / 10M |               |        |         |                       |               |               |                        |                                 |            |
|---------------------------------------------|---------------|--------|---------|-----------------------|---------------|---------------|------------------------|---------------------------------|------------|
| Modulation                                  | RB            |        | Channel | Result                |               |               |                        |                                 | Conclusion |
|                                             | Size          | Offset |         | S<br>G.Level<br>(dBm) | Cable<br>loss | Gain<br>(dBi) | PMeas<br>E.I.R.P.(dBm) | Polarization<br>Of Max.<br>EIRP |            |
| QPSK                                        | 1             | 0      | Lowest  | 12.06                 | 2.35          | 10.13         | 19.84                  | Horizontal                      | Pass       |
|                                             | 1             | 0      | Middle  | 11.85                 | 2.36          | 10.16         | 19.65                  | Horizontal                      | Pass       |
|                                             | 1             | 0      | Highest | 11.8                  | 2.37          | 10.22         | 19.65                  | Horizontal                      | Pass       |
|                                             | 1             | 0      | Lowest  | 13.48                 | 2.35          | 10.13         | 21.26                  | Vertical                        | Pass       |
|                                             | 1             | 0      | Middle  | 13.28                 | 2.36          | 10.16         | 21.08                  | Vertical                        | Pass       |
|                                             | 1             | 0      | Highest | 13.27                 | 2.37          | 10.22         | 21.12                  | Vertical                        | Pass       |
| 16QAM                                       | 1             | 0      | Lowest  | 11.77                 | 2.35          | 10.13         | 19.55                  | Horizontal                      | Pass       |
|                                             | 1             | 0      | Middle  | 11.6                  | 2.36          | 10.16         | 19.40                  | Horizontal                      | Pass       |
|                                             | 1             | 0      | Highest | 11.68                 | 2.37          | 10.22         | 19.53                  | Horizontal                      | Pass       |
|                                             | 1             | 0      | Lowest  | 13.17                 | 2.35          | 10.13         | 20.95                  | Vertical                        | Pass       |
|                                             | 1             | 0      | Middle  | 13.02                 | 2.36          | 10.16         | 20.82                  | Vertical                        | Pass       |
|                                             | 1             | 0      | Highest | 13.16                 | 2.37          | 10.22         | 21.01                  | Vertical                        | Pass       |
| Limit                                       | EIRP<1W=30dBm |        |         |                       |               |               |                        |                                 |            |



| Radiated Power (EIRP) for LTE Band 66 / 15M |               |        |         |                       |               |               |                        |                                 |            |
|---------------------------------------------|---------------|--------|---------|-----------------------|---------------|---------------|------------------------|---------------------------------|------------|
| Modulation                                  | RB            |        | Channel | Result                |               |               |                        |                                 | Conclusion |
|                                             | Size          | Offset |         | S<br>G.Level<br>(dBm) | Cable<br>loss | Gain<br>(dBi) | PMeas<br>E.I.R.P.(dBm) | Polarization<br>Of Max.<br>EIRP |            |
| QPSK                                        | 1             | 0      | Lowest  | 12.06                 | 2.35          | 10.13         | 19.84                  | Horizontal                      | Pass       |
|                                             | 1             | 0      | Middle  | 12.13                 | 2.36          | 10.16         | 19.93                  | Horizontal                      | Pass       |
|                                             | 1             | 0      | Highest | 12.25                 | 2.37          | 10.22         | 20.10                  | Horizontal                      | Pass       |
|                                             | 1             | 0      | Lowest  | 13.53                 | 2.35          | 10.13         | 21.31                  | Vertical                        | Pass       |
|                                             | 1             | 0      | Middle  | 13.56                 | 2.36          | 10.16         | 21.36                  | Vertical                        | Pass       |
|                                             | 1             | 0      | Highest | 13.7                  | 2.37          | 10.22         | 21.55                  | Vertical                        | Pass       |
| 16QAM                                       | 1             | 0      | Lowest  | 12.05                 | 2.35          | 10.13         | 19.83                  | Horizontal                      | Pass       |
|                                             | 1             | 0      | Middle  | 11.9                  | 2.36          | 10.16         | 19.70                  | Horizontal                      | Pass       |
|                                             | 1             | 0      | Highest | 11.84                 | 2.37          | 10.22         | 19.69                  | Horizontal                      | Pass       |
|                                             | 1             | 0      | Lowest  | 13.37                 | 2.35          | 10.13         | 21.15                  | Vertical                        | Pass       |
|                                             | 1             | 0      | Middle  | 13.37                 | 2.36          | 10.16         | 21.17                  | Vertical                        | Pass       |
|                                             | 1             | 0      | Highest | 13.33                 | 2.37          | 10.22         | 21.18                  | Vertical                        | Pass       |
| Limit                                       | EIRP<1W=30dBm |        |         |                       |               |               |                        |                                 |            |

| Radiated Power (EIRP) for LTE Band 66 / 20M |               |        |         |                       |               |               |                        |                                 |            |
|---------------------------------------------|---------------|--------|---------|-----------------------|---------------|---------------|------------------------|---------------------------------|------------|
| Modulation                                  | RB            |        | Channel | Result                |               |               |                        |                                 | Conclusion |
|                                             | Size          | Offset |         | S<br>G.Level<br>(dBm) | Cable<br>loss | Gain<br>(dBi) | PMeas<br>E.I.R.P.(dBm) | Polarization<br>Of Max.<br>EIRP |            |
| QPSK                                        | 1             | 0      | Lowest  | 12.57                 | 2.35          | 10.13         | 20.35                  | Horizontal                      | Pass       |
|                                             | 1             | 0      | Middle  | 12.56                 | 2.36          | 10.16         | 20.36                  | Horizontal                      | Pass       |
|                                             | 1             | 0      | Highest | 12.36                 | 2.37          | 10.22         | 20.21                  | Horizontal                      | Pass       |
|                                             | 1             | 0      | Lowest  | 13.92                 | 2.35          | 10.13         | 21.70                  | Vertical                        | Pass       |
|                                             | 1             | 0      | Middle  | 13.91                 | 2.36          | 10.16         | 21.71                  | Vertical                        | Pass       |
|                                             | 1             | 0      | Highest | 13.85                 | 2.37          | 10.22         | 21.70                  | Vertical                        | Pass       |
| 16QAM                                       | 1             | 0      | Lowest  | 12.31                 | 2.35          | 10.13         | 20.09                  | Horizontal                      | Pass       |
|                                             | 1             | 0      | Middle  | 12.24                 | 2.36          | 10.16         | 20.04                  | Horizontal                      | Pass       |
|                                             | 1             | 0      | Highest | 12.07                 | 2.37          | 10.22         | 19.92                  | Horizontal                      | Pass       |
|                                             | 1             | 0      | Lowest  | 13.76                 | 2.35          | 10.13         | 21.54                  | Vertical                        | Pass       |
|                                             | 1             | 0      | Middle  | 13.69                 | 2.36          | 10.16         | 21.49                  | Vertical                        | Pass       |
|                                             | 1             | 0      | Highest | 13.49                 | 2.37          | 10.22         | 21.34                  | Vertical                        | Pass       |
| Limit                                       | EIRP<1W=30dBm |        |         |                       |               |               |                        |                                 |            |

## 6. OCCUPIED BANDWIDTH

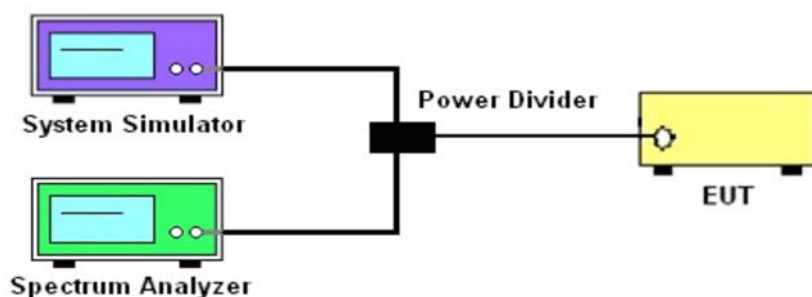
### 6.1 DESCRIPTION OF OCCUPIED BANDWIDTH MEASUREMENT

#### 6.1.1 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.

#### 6.1.2 TEST SETUP



#### 6.1.3 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    |



## 6.1.4 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   | 1.0969 | 1.311   | 1.1048 | 1.287   | 1.0952  | 1.303   |
| 1.4                        | 16-QAM | 1.102  | 1.31    | 1.093  | 1.277   | 1.097   | 1.301   |
| 3                          | QPSK   | 2.689  | 2.921   | 2.683  | 2.925   | 2.683   | 2.925   |
| 3                          | 16-QAM | 2.682  | 2.953   | 2.6812 | 2.929   | 2.679   | 2.932   |
| 5                          | QPSK   | 4.505  | 5.027   | 4.502  | 4.991   | 4.518   | 5.006   |
| 5                          | 16-QAM | 4.5    | 5.024   | 4.533  | 5.044   | 4.5084  | 5.039   |
| 10                         | QPSK   | 8.912  | 9.626   | 8.93   | 9.732   | 8.907   | 9.626   |
| 10                         | 16-QAM | 8.912  | 9.61    | 8.927  | 9.637   | 8.9     | 9.61    |
| 15                         | QPSK   | 13.367 | 14.54   | 13.431 | 14.66   | 13.446  | 14.65   |
| 15                         | 16-QAM | 13.422 | 14.58   | 13.438 | 14.58   | 13.44   | 14.63   |
| 20                         | QPSK   | 17.832 | 19.12   | 17.875 | 19.35   | 17.883  | 19.24   |
| 20                         | 16-QAM | 17.875 | 19.22   | 17.858 | 19.29   | 17.899  | 19.3    |
| 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   | 1.1    | 1.321   | 1.1046 | 1.284   | 1.096   | 1.305   |
| 1.4                        | 16-QAM | 1.0991 | 1.312   | 1.094  | 1.272   | 1.095   | 1.32    |
| 3                          | QPSK   | 2.686  | 2.92    | 2.683  | 2.938   | 2.6831  | 2.926   |
| 3                          | 16-QAM | 2.683  | 2.942   | 2.682  | 2.934   | 2.68    | 2.923   |
| 5                          | QPSK   | 4.508  | 5.025   | 4.5    | 4.991   | 4.517   | 5.019   |
| 5                          | 16-QAM | 4.504  | 5.013   | 4.526  | 5.023   | 4.5198  | 5.033   |
| 10                         | QPSK   | 8.915  | 9.641   | 8.93   | 9.649   | 8.934   | 9.75    |
| 10                         | 16-QAM | 8.92   | 9.584   | 8.926  | 9.667   | 8.926   | 9.634   |
| 15                         | QPSK   | 13.378 | 14.57   | 13.436 | 14.77   | 13.447  | 14.83   |
| 15                         | 16-QAM | 13.43  | 14.59   | 13.458 | 14.65   | 13.444  | 14.75   |
| 20                         | QPSK   | 17.815 | 19.11   | 17.898 | 19.41   | 17.865  | 19.115  |
| 20                         | 16-QAM | 17.877 | 19.21   | 17.891 | 19.35   | 17.861  | 19.27   |
| 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   | 1.0989 | 1.304   | 1.108  | 1.292   | 1.098   | 1.327   |
| 1.4                        | 16-QAM | 1.099  | 1.307   | 1.094  | 1.285   | 1.099   | 1.291   |
| 3                          | QPSK   | 2.6833 | 2.914   | 2.69   | 2.942   | 2.684   | 2.932   |
| 3                          | 16-QAM | 2.681  | 2.926   | 2.681  | 2.942   | 2.6776  | 2.925   |
| 5                          | QPSK   | 4.507  | 5.023   | 4.498  | 5.025   | 4.504   | 4.981   |
| 5                          | 16-QAM | 4.502  | 5.01    | 4.526  | 4.988   | 4.501   | 4.99    |
| 10                         | QPSK   | 8.914  | 9.609   | 8.907  | 9.611   | 8.902   | 9.636   |
| 10                         | 16-QAM | 8.916  | 9.547   | 8.914  | 9.591   | 8.899   | 9.608   |



| 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   | 1.0986 | 1.313   | 1.106  | 1.286   | 1.0971  | 1.307   |
| 1.4                                  | 16-QAM | 1.098  | 1.304   | 1.094  | 1.276   | 1.0969  | 1.296   |
| 3                                    | QPSK   | 2.68   | 2.916   | 2.6892 | 2.921   | 2.684   | 2.938   |
| 3                                    | 16-QAM | 2.679  | 2.927   | 2.682  | 2.95    | 2.683   | 2.924   |
| 5                                    | QPSK   | 4.498  | 4.988   | 4.505  | 5.002   | 4.521   | 5.019   |
| 5                                    | 16-QAM | 4.493  | 4.97    | 4.534  | 5.038   | 4.514   | 5.028   |
| 10                                   | QPSK   | 8.914  | 9.609   | 8.947  | 9.738   | 8.908   | 9.676   |
| 10                                   | 16-QAM | 8.918  | 9.611   | 8.94   | 9.665   | 8.901   | 9.595   |
| LTE Band 13 Bandwidth [MHz]          |        |        |         |        |         |         |         |
| BW [MHz]                             | Mode   | Lowest |         | Middle |         | Highest |         |
|                                      |        | 99% BW | 26dB BW | 99% BW | 26dB BW | 99% BW  | 26dB BW |
| 5                                    | QPSK   | 4.531  | 5.032   | 4.516  | 5.02    | 4.5     | 4.984   |
| 5                                    | 16-QAM | 4.531  | 5.065   | 4.5099 | 5.014   | 4.521   | 5.038   |
| 10                                   | QPSK   | N/A    | N/A     | 8.966  | 9.758   | N/A     | N/A     |
| 10                                   | 16-QAM | N/A    | N/A     | 8.946  | 9.758   | N/A     | N/A     |
| LTE Band 25 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  | 1.316   | 1.104  | 1.281   | 1.0967  | 1.296   |
| 1.4                                  | 16-QAM | 1.0926 | 1.278   | 1.0966 | 1.303   | 1.03    | 1.325   |
| 3                                    | QPSK   | 2.689  | 2.924   | 2.684  | 2.927   | 2.686   | 2.93    |
| 3                                    | 16-QAM | 2.6833 | 2.936   | 2.6814 | 2.928   | 2.685   | 2.923   |
| 5                                    | QPSK   | 4.506  | 5.005   | 4.495  | 4.997   | 4.531   | 5.01    |
| 5                                    | 16-QAM | 4.525  | 5.01    | 4.524  | 5.058   | 4.5122  | 5.019   |
| 10                                   | QPSK   | 8.912  | 9.721   | 8.905  | 9.669   | 8.903   | 9.628   |
| 10                                   | 16-QAM | 8.903  | 9.565   | 8.922  | 9.651   | 8.895   | 9.593   |
| 15                                   | QPSK   | 13.368 | 14.53   | 13.422 | 14.67   | 13.371  | 14.63   |
| 15                                   | 16-QAM | 13.406 | 14.55   | 13.408 | 14.68   | 13.369  | 14.52   |
| 20                                   | QPSK   | 17.803 | 19.13   | 17.845 | 19.31   | 17.798  | 18.95   |
| 20                                   | 16-QAM | 17.838 | 19.17   | 17.808 | 19.17   | 17.832  | 19.04   |
| LTE Band 26(Part 22) Bandwidth [MHz] |        |        |         |        |         |         |         |
| BW [MHz]                             | Mode   | Lowest |         | Middle |         | Highest |         |
|                                      |        | 99% BW | 26dB BW | 99% BW | 26dB BW | 99% BW  | 26dB BW |
| 1.4                                  | QPSK   | 1.096  | 1.311   | 1.0985 | 1.341   | 1.108   | 1.288   |
| 1.4                                  | 16-QAM | 1.1    | 1.308   | 1.095  | 1.29    | 1.1     | 1.32    |
| 3                                    | QPSK   | 2.683  | 2.922   | 2.684  | 2.945   | 2.682   | 2.933   |
| 3                                    | 16-QAM | 2.681  | 2.913   | 2.681  | 2.939   | 2.68    | 2.914   |
| 5                                    | QPSK   | 4.509  | 5.008   | 4.499  | 5.014   | 4.5     | 4.977   |
| 5                                    | 16-QAM | 4.504  | 5.008   | 4.53   | 5.021   | 4.509   | 5       |
| 10                                   | QPSK   | 8.916  | 9.608   | 8.904  | 9.601   | 8.918   | 9.7     |
| 10                                   | 16-QAM | 8.905  | 9.533   | 8.918  | 9.583   | 8.903   | 9.6     |
| 15                                   | QPSK   | 13.364 | 14.55   | 13.426 | 14.64   | 13.443  | 14.67   |
| 15                                   | 16-QAM | 13.378 | 14.56   | 13.445 | 14.59   | 13.48   | 14.67   |



| LTE Band 26(Part 90) Bandwidth [MHz] |        |        |         |        |         |         |         |
|--------------------------------------|--------|--------|---------|--------|---------|---------|---------|
| BW [MHz]                             | Mode   | Lowest |         | Middle |         | Highest |         |
|                                      |        | 99% BW | 26dB BW | 99% BW | 26dB BW | 99% BW  | 26dB BW |
| 1.4                                  | QPSK   | 1.096  | 1.312   | 1.104  | 1.293   | 1.0968  | 1.325   |
| 1.4                                  | 16-QAM | 1.094  | 1.293   | 1.097  | 1.311   | 1.0992  | 1.305   |
| 3                                    | QPSK   | 2.687  | 2.914   | 2.681  | 2.946   | 2.683   | 2.931   |
| 3                                    | 16-QAM | 2.68   | 2.939   | 2.68   | 2.927   | 2.6791  | 2.939   |
| 5                                    | QPSK   | 4.501  | 5.005   | 4.502  | 5.019   | 4.527   | 5.017   |
| 5                                    | 4.5084 | 4.5084 | 5.008   | 4.5259 | 5.027   | 4.506   | 5.017   |
| 10                                   | QPSK   | N/A    | N/A     | 8.923  | 9.747   | N/A     | N/A     |
| 10                                   | 16-QAM | N/A    | N/A     | 8.9253 | 11.77   | N/A     | N/A     |
| LTE Band 41 Bandwidth [MHz]          |        |        |         |        |         |         |         |
| BW [MHz]                             | Mode   | Lowest |         | Middle |         | Highest |         |
|                                      |        | 99% BW | 26dB BW | 99% BW | 26dB BW | 99% BW  | 26dB BW |
| 5                                    | QPSK   | 4.52   | 4.996   | 4.502  | 5       | 4.501   | 5.021   |
| 5                                    | 16-QAM | 4.505  | 5.096   | 4.511  | 5.06    | 4.5019  | 4.958   |
| 10                                   | QPSK   | 8.932  | 10.05   | 8.9352 | 9.759   | 8.924   | 9.664   |
| 10                                   | 16-QAM | 8.939  | 9.598   | 8.924  | 9.507   | 8.91    | 9.623   |
| 15                                   | QPSK   | 13.439 | 14.63   | 13.439 | 16.39   | 13.472  | 15.35   |
| 15                                   | 16-QAM | 13.49  | 15.24   | 13.482 | 14.79   | 13.45   | 14.66   |
| 20                                   | QPSK   | 17.876 | 19.32   | 17.865 | 19.82   | 17.899  | 19.08   |
| 20                                   | 16-QAM | 17.873 | 20.24   | 17.85  | 19.93   | 17.864  | 19.22   |
| 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   | 1.106  | 1.285   | 1.0948 | 1.295   | 1.1005  | 1.325   |
| 1.4                                  | 16-QAM | 1.093  | 1.315   | 1.093  | 1.275   | 1.098   | 1.327   |
| 3                                    | QPSK   | 2.689  | 2.926   | 2.684  | 2.941   | 2.6833  | 2.918   |
| 3                                    | 16-QAM | 2.6812 | 2.948   | 2.6812 | 2.917   | 2.68    | 2.946   |
| 5                                    | QPSK   | 4.504  | 4.988   | 4.501  | 4.996   | 4.524   | 5.02    |
| 5                                    | 16-QAM | 4.5    | 5.009   | 4.527  | 5.034   | 4.531   | 5.039   |
| 10                                   | QPSK   | 8.912  | 9.612   | 8.93   | 9.678   | 8.933   | 9.771   |
| 10                                   | 16-QAM | 8.911  | 9.666   | 8.918  | 9.633   | 8.93    | 9.666   |
| 15                                   | QPSK   | 13.378 | 14.54   | 13.422 | 14.77   | 13.437  | 14.76   |
| 15                                   | 16-QAM | 13.416 | 14.65   | 13.442 | 14.67   | 13.43   | 14.72   |
| 20                                   | QPSK   | 17.824 | 19.17   | 17.889 | 19.46   | 17.835  | 19.14   |
| 20                                   | 16-QAM | 17.87  | 19.3    | 17.877 | 19.37   | 17.807  | 19.21   |

Note: Test chart See Appendix A



## 7. CONDUCTED BAND EDGE

### 7.1 DESCRIPTION OF CONDUCTED BAND EDGE MEASUREMENT

#### 7.1.1 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 2496 MHz ~ 2690 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 that  $43 + 10 \log (P)$  dB on all frequencies between 2490.5 MHz and 2496 MHz and  $55 + 10 \log (P)$  dB at or below 2490.5 MHz. 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.

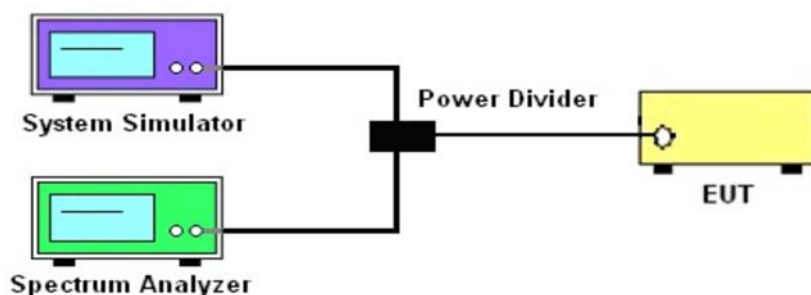
##### 5. §27.53 (g)

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. §90.691 (a)

For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least  $43 + 10\log_{10}(P)$  decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz.

## 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 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)  
 $= P(W) - [43 + 10\log(P)]$  (dB)  
 $= [30 + 10\log(P)]$  (dBm) -  $[43 + 10\log(P)]$  (dB)  
 $= -13$  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    |

## 7.1.4 MEASUREMENT RESULT

Note: Test chart See Appendix B

## 8. CONDUCTED SPURIOUS EMISSION

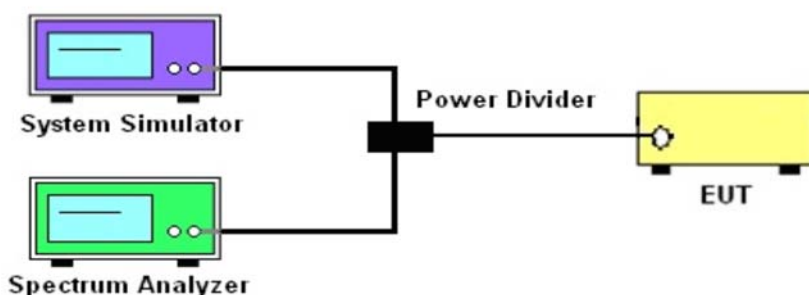
### 8.1 DESCRIPTION OF CONDUCTED SPURIOUS EMISSION MEASUREMENT

#### 8.1.1 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.

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

#### 8.1.2 TEST SETUP



#### 8.1.3 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)  
 $= P(W) - [43 + 10\log(P)] \text{ (dB)} = [30 + 10\log(P)] \text{ (dBm)} - [43 + 10\log(P)] \text{ (dB)}$   
 $= -13\text{dBm}.$

|          | 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     |

#### 8.1.4 TEST RESULTS

Note: Test chart See Appendix C

## 9. RADIATED SPURIOUS EMISSION

### 9.1 DESCRIPTION OF RADIATED SPURIOUS EMISSION

#### 9.1.1 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.

#### 9.1.2 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.

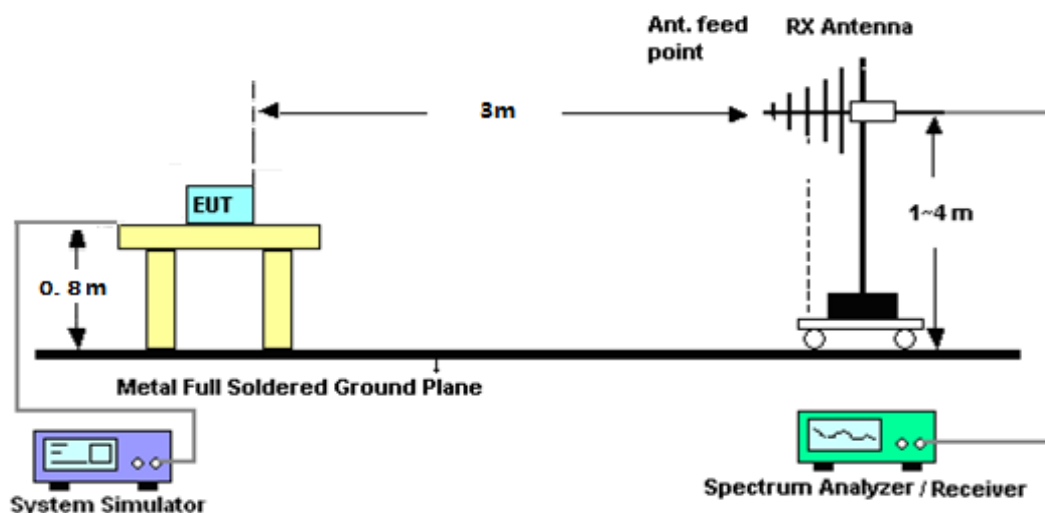
b) EUT was placed on 1.5 m non-conductive stand at a 3 m test distance from the receive antenna. A receiving antenna was placed on the antenna mast 3 m from the test item for emission measurements. The height of receiving antenna is 0.8m. The test setup refers to figure below. Detected emissions were 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.

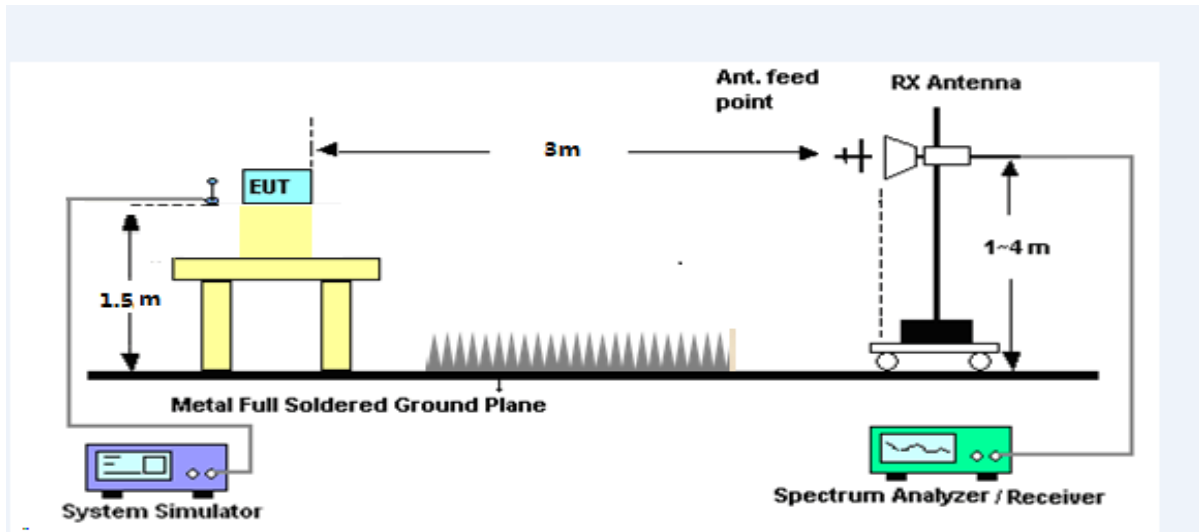
The substitution method is used. Substitution values at each frequency are measured before and saved to the test software. A "reference path loss" is established and the ARpl is the attenuation of "reference path loss", and including the gain of receive antenna, the gain of the preamplifier, the cable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



### 9.1.3 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  $43 + 10\log(P)\text{dB}$  below the transmitter power  $P(\text{Watts})$   
 $= P(\text{W}) - [43 + 10\log(P)] (\text{dB})$   
 $= [30 + 10\log(P)] (\text{dBm}) - [43 + 10\log(P)] (\text{dB})$   
 $= -13\text{dBm}$



## 9.1.4 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 |
| 3703.88                                                                             | -33.77        | 12.60    | 12.93 | -34.10     | -13.00      | -21.10       | H        |
| 5557.27                                                                             | -34.92        | 13.10    | 17.11 | -38.93     | -13.00      | -25.93       | H        |
| 7409.51                                                                             | -32.88        | 11.50    | 22.20 | -43.58     | -13.00      | -30.58       | H        |
| 3703.88                                                                             | -34.98        | 12.60    | 12.93 | -35.31     | -13.00      | -22.31       | V        |
| 5557.27                                                                             | -34.30        | 13.10    | 17.11 | -38.31     | -13.00      | -25.31       | V        |
| 7409.51                                                                             | -32.41        | 11.50    | 22.20 | -43.11     | -13.00      | -30.11       | 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 |
| 3759.52                                                                             | -34.39        | 12.60    | 12.93 | -34.72     | -13.00      | -21.72       | H        |
| 5639.51                                                                             | -34.82        | 13.10    | 17.11 | -38.83     | -13.00      | -25.83       | H        |
| 7520.10                                                                             | -33.15        | 11.50    | 22.20 | -43.85     | -13.00      | -30.85       | H        |
| 3759.52                                                                             | -35.08        | 12.60    | 12.93 | -35.41     | -13.00      | -22.41       | V        |
| 5639.51                                                                             | -34.21        | 13.10    | 17.11 | -38.22     | -13.00      | -25.22       | V        |
| 7520.10                                                                             | -33.04        | 11.50    | 22.20 | -43.74     | -13.00      | -30.74       | 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 |
| 3817.92                                                                             | -33.92        | 12.60    | 12.93 | -34.25     | -13.00      | -21.25       | H        |
| 5727.36                                                                             | -35.46        | 13.10    | 17.11 | -39.47     | -13.00      | -26.47       | H        |
| 7636.56                                                                             | -33.37        | 11.50    | 22.20 | -44.07     | -13.00      | -31.07       | H        |
| 3817.92                                                                             | -34.82        | 12.60    | 12.93 | -35.15     | -13.00      | -22.15       | V        |
| 5727.36                                                                             | -34.56        | 13.10    | 17.11 | -38.57     | -13.00      | -25.57       | V        |
| 7636.56                                                                             | -32.71        | 11.50    | 22.20 | -43.41     | -13.00      | -30.41       | 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)  |          |
| 3703.66                                                                           | -34.89        | 12.60    | 12.93 | -35.22 | -13.00 | -22.22 | H        |
| 5557.33                                                                           | -34.55        | 13.10    | 17.11 | -38.56 | -13.00 | -25.56 | H        |
| 7409.77                                                                           | -33.27        | 11.50    | 22.20 | -43.97 | -13.00 | -30.97 | H        |
| 3703.66                                                                           | -35.41        | 12.60    | 12.93 | -35.74 | -13.00 | -22.74 | V        |
| 5557.33                                                                           | -35.00        | 13.10    | 17.11 | -39.01 | -13.00 | -26.01 | V        |
| 7409.77                                                                           | -32.41        | 11.50    | 22.20 | -43.11 | -13.00 | -30.11 | 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)  |          |
| 3759.58                                                                           | -34.57        | 12.60    | 12.93 | -34.90 | -13.00 | -21.90 | H        |
| 5639.41                                                                           | -34.93        | 13.10    | 17.11 | -38.94 | -13.00 | -25.94 | H        |
| 7520.16                                                                           | -32.18        | 11.50    | 22.20 | -42.88 | -13.00 | -29.88 | H        |
| 3759.58                                                                           | -34.93        | 12.60    | 12.93 | -35.26 | -13.00 | -22.26 | V        |
| 5639.41                                                                           | -34.65        | 13.10    | 17.11 | -38.66 | -13.00 | -25.66 | V        |
| 7520.16                                                                           | -32.93        | 11.50    | 22.20 | -43.63 | -13.00 | -30.63 | 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)  |          |
| 3818.27                                                                           | -34.06        | 12.60    | 12.93 | -34.39 | -13.00 | -21.39 | H        |
| 5727.50                                                                           | -35.10        | 13.10    | 17.11 | -39.11 | -13.00 | -26.11 | H        |
| 7636.61                                                                           | -33.33        | 11.50    | 22.20 | -44.03 | -13.00 | -31.03 | H        |
| 3818.27                                                                           | -35.92        | 12.60    | 12.93 | -36.25 | -13.00 | -23.25 | V        |
| 5727.50                                                                           | -33.81        | 13.10    | 17.11 | -37.82 | -13.00 | -24.82 | V        |
| 7636.61                                                                           | -31.75        | 11.50    | 22.20 | -42.45 | -13.00 | -29.45 | 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 |
| 3704.95                                                                           | -34.67        | 12.60    | 12.93 | -35.00        | -13.00         | -22.00          | H        |
| 5557.78                                                                           | -34.75        | 13.10    | 17.11 | -38.76        | -13.00         | -25.76          | H        |
| 7410.23                                                                           | -32.41        | 11.50    | 22.20 | -43.11        | -13.00         | -30.11          | H        |
| 3704.95                                                                           | -34.55        | 12.60    | 12.93 | -34.88        | -13.00         | -21.88          | V        |
| 5557.78                                                                           | -33.79        | 13.10    | 17.11 | -37.80        | -13.00         | -24.80          | V        |
| 7410.23                                                                           | -32.01        | 11.50    | 22.20 | -42.71        | -13.00         | -29.71          | 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 |
| 3759.84                                                                           | -34.50        | 12.60    | 12.93 | -34.83        | -13.00         | -21.83          | H        |
| 5639.63                                                                           | -34.45        | 13.10    | 17.11 | -38.46        | -13.00         | -25.46          | H        |
| 7519.96                                                                           | -33.65        | 11.50    | 22.20 | -44.35        | -13.00         | -31.35          | H        |
| 3759.84                                                                           | -34.85        | 12.60    | 12.93 | -35.18        | -13.00         | -22.18          | V        |
| 5639.63                                                                           | -34.30        | 13.10    | 17.11 | -38.31        | -13.00         | -25.31          | V        |
| 7519.96                                                                           | -32.01        | 11.50    | 22.20 | -42.71        | -13.00         | -29.71          | 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 |
| 3813.97                                                                           | -34.87        | 12.60    | 12.93 | -35.20        | -13.00         | -22.20          | H        |
| 5721.34                                                                           | -34.54        | 13.10    | 17.11 | -38.55        | -13.00         | -25.55          | H        |
| 7628.78                                                                           | -32.56        | 11.50    | 22.20 | -43.26        | -13.00         | -30.26          | H        |
| 3813.97                                                                           | -35.81        | 12.60    | 12.93 | -36.14        | -13.00         | -23.14          | V        |
| 5721.34                                                                           | -34.30        | 13.10    | 17.11 | -38.31        | -13.00         | -25.31          | V        |
| 7628.78                                                                           | -33.14        | 11.50    | 22.20 | -43.84        | -13.00         | -30.84          | 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 |
| 3710.21                                                                            | -34.91        | 12.60    | 12.93 | -35.24        | -13.00         | -22.24          | H        |
| 5565.73                                                                            | -34.15        | 13.10    | 17.11 | -38.16        | -13.00         | -25.16          | H        |
| 7420.98                                                                            | -32.67        | 11.50    | 22.20 | -43.37        | -13.00         | -30.37          | H        |
| 3710.21                                                                            | -35.00        | 12.60    | 12.93 | -35.33        | -13.00         | -22.33          | V        |
| 5565.73                                                                            | -33.95        | 13.10    | 17.11 | -37.96        | -13.00         | -24.96          | V        |
| 7420.98                                                                            | -32.67        | 11.50    | 22.20 | -43.37        | -13.00         | -30.37          | 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 |
| 3759.89                                                                            | -33.67        | 12.60    | 12.93 | -34.00        | -13.00         | -21.00          | H        |
| 5639.61                                                                            | -34.79        | 13.10    | 17.11 | -38.80        | -13.00         | -25.80          | H        |
| 7519.98                                                                            | -32.30        | 11.50    | 22.20 | -43.00        | -13.00         | -30.00          | H        |
| 3759.89                                                                            | -34.63        | 12.60    | 12.93 | -34.96        | -13.00         | -21.96          | V        |
| 5639.61                                                                            | -34.66        | 13.10    | 17.11 | -38.67        | -13.00         | -25.67          | V        |
| 7519.98                                                                            | -33.18        | 11.50    | 22.20 | -43.88        | -13.00         | -30.88          | 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 |
| 3809.02                                                                            | -33.89        | 12.60    | 12.93 | -34.22        | -13.00         | -21.22          | H        |
| 5713.58                                                                            | -34.54        | 13.10    | 17.11 | -38.55        | -13.00         | -25.55          | H        |
| 7617.67                                                                            | -33.63        | 11.50    | 22.20 | -44.33        | -13.00         | -31.33          | H        |
| 3809.02                                                                            | -35.30        | 12.60    | 12.93 | -35.63        | -13.00         | -22.63          | V        |
| 5713.58                                                                            | -34.64        | 13.10    | 17.11 | -38.65        | -13.00         | -25.65          | V        |
| 7617.67                                                                            | -32.48        | 11.50    | 22.20 | -43.18        | -13.00         | -30.18          | 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 |
| 3715.93                                                                            | -34.05        | 12.60    | 12.93 | -34.38        | -13.00         | -21.38          | H        |
| 5574.17                                                                            | -35.43        | 13.10    | 17.11 | -39.44        | -13.00         | -26.44          | H        |
| 7618.23                                                                            | -32.93        | 11.50    | 22.20 | -43.63        | -13.00         | -30.63          | H        |
| 3715.93                                                                            | -35.65        | 12.60    | 12.93 | -35.98        | -13.00         | -22.98          | V        |
| 5574.17                                                                            | -34.73        | 13.10    | 17.11 | -38.74        | -13.00         | -25.74          | V        |
| 7618.23                                                                            | -33.00        | 11.50    | 22.20 | -43.70        | -13.00         | -30.70          | 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 |
| 3759.78                                                                            | -34.55        | 12.60    | 12.93 | -34.88        | -13.00         | -21.88          | H        |
| 5639.57                                                                            | -34.96        | 13.10    | 17.11 | -38.97        | -13.00         | -25.97          | H        |
| 7520.05                                                                            | -32.63        | 11.50    | 22.20 | -43.33        | -13.00         | -30.33          | H        |
| 3759.78                                                                            | -34.63        | 12.60    | 12.93 | -34.96        | -13.00         | -21.96          | V        |
| 5639.57                                                                            | -34.54        | 13.10    | 17.11 | -38.55        | -13.00         | -25.55          | V        |
| 7520.05                                                                            | -32.47        | 11.50    | 22.20 | -43.17        | -13.00         | -30.17          | 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 |
| 3803.28                                                                            | -34.38        | 12.60    | 12.93 | -34.71        | -13.00         | -21.71          | H        |
| 5705.14                                                                            | -34.87        | 13.10    | 17.11 | -38.88        | -13.00         | -25.88          | H        |
| 7606.90                                                                            | -32.74        | 11.50    | 22.20 | -43.44        | -13.00         | -30.44          | H        |
| 3803.28                                                                            | -34.55        | 12.60    | 12.93 | -34.88        | -13.00         | -21.88          | V        |
| 5705.14                                                                            | -34.53        | 13.10    | 17.11 | -38.54        | -13.00         | -25.54          | V        |
| 7606.90                                                                            | -32.73        | 11.50    | 22.20 | -43.43        | -13.00         | -30.43          | 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 |
| 3721.24                                                                            | -34.33        | 12.60    | 12.93 | -34.66        | -13.00         | -21.66          | H        |
| 5580.99                                                                            | -34.80        | 13.10    | 17.11 | -38.81        | -13.00         | -25.81          | H        |
| 7441.86                                                                            | -33.09        | 11.50    | 22.20 | -43.79        | -13.00         | -30.79          | H        |
| 3721.24                                                                            | -35.65        | 12.60    | 12.93 | -35.98        | -13.00         | -22.98          | V        |
| 5580.99                                                                            | -34.06        | 13.10    | 17.11 | -38.07        | -13.00         | -25.07          | V        |
| 7441.86                                                                            | -32.51        | 11.50    | 22.20 | -43.21        | -13.00         | -30.21          | 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 |
| 3759.59                                                                            | -34.87        | 12.60    | 12.93 | -35.20        | -13.00         | -22.20          | H        |
| 5639.64                                                                            | -34.20        | 13.10    | 17.11 | -38.21        | -13.00         | -25.21          | H        |
| 7519.82                                                                            | -33.10        | 11.50    | 22.20 | -43.80        | -13.00         | -30.80          | H        |
| 3759.59                                                                            | -34.62        | 12.60    | 12.93 | -34.95        | -13.00         | -21.95          | V        |
| 5639.64                                                                            | -33.84        | 13.10    | 17.11 | -37.85        | -13.00         | -24.85          | V        |
| 7519.82                                                                            | -32.17        | 11.50    | 22.20 | -42.87        | -13.00         | -29.87          | 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 |
| 3798.35                                                                            | -34.80        | 12.60    | 12.93 | -35.13        | -13.00         | -22.13          | H        |
| 5697.48                                                                            | -34.67        | 13.10    | 17.11 | -38.68        | -13.00         | -25.68          | H        |
| 7596.88                                                                            | -32.16        | 11.50    | 22.20 | -42.86        | -13.00         | -29.86          | H        |
| 3798.35                                                                            | -35.91        | 12.60    | 12.93 | -36.24        | -13.00         | -23.24          | V        |
| 5697.48                                                                            | -33.90        | 13.10    | 17.11 | -37.91        | -13.00         | -24.91          | V        |
| 7596.88                                                                            | -33.05        | 11.50    | 22.20 | -43.75        | -13.00         | -30.75          | 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 |
| 3421.24                                                                             | -33.64        | 12.90    | 12.56 | -33.30        | -13.00         | -20.30          | H        |
| 5132.13                                                                             | -35.45        | 13.10    | 16.32 | -38.67        | -13.00         | -25.67          | H        |
| 6842.54                                                                             | -32.68        | 12.33    | 21.13 | -41.48        | -13.00         | -28.48          | H        |
| 3421.24                                                                             | -35.19        | 12.90    | 12.56 | -34.85        | -13.00         | -21.85          | V        |
| 5132.13                                                                             | -34.79        | 13.10    | 16.32 | -38.01        | -13.00         | -25.01          | V        |
| 6842.54                                                                             | -32.39        | 12.33    | 21.13 | -41.19        | -13.00         | -28.19          | 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 |
| 3464.70                                                                             | -34.26        | 12.90    | 12.56 | -33.92        | -13.00         | -20.92          | H        |
| 5196.72                                                                             | -34.05        | 13.10    | 16.32 | -37.27        | -13.00         | -24.27          | H        |
| 6930.24                                                                             | -32.66        | 12.33    | 21.13 | -41.46        | -13.00         | -28.46          | H        |
| 3464.70                                                                             | -35.95        | 12.90    | 12.56 | -35.61        | -13.00         | -22.61          | V        |
| 5196.72                                                                             | -34.34        | 13.10    | 16.32 | -37.56        | -13.00         | -24.56          | V        |
| 6930.24                                                                             | -32.10        | 12.33    | 21.13 | -40.90        | -13.00         | -27.90          | 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 |
| 3508.41                                                                             | -34.63        | 12.90    | 12.56 | -34.29        | -13.00         | -21.29          | H        |
| 5262.32                                                                             | -34.06        | 13.10    | 16.32 | -37.28        | -13.00         | -24.28          | H        |
| 7015.55                                                                             | -33.42        | 12.33    | 21.13 | -42.22        | -13.00         | -29.22          | H        |
| 3508.41                                                                             | -35.83        | 12.90    | 12.56 | -35.49        | -13.00         | -22.49          | V        |
| 5262.32                                                                             | -34.02        | 13.10    | 16.32 | -37.24        | -13.00         | -24.24          | V        |
| 7015.55                                                                             | -32.74        | 12.33    | 21.13 | -41.54        | -13.00         | -28.54          | 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 |
| 3423.79                                                                           | -33.78        | 12.90    | 12.56 | -33.44        | -13.00         | -20.44          | H        |
| 5135.88                                                                           | -34.27        | 13.10    | 16.32 | -37.49        | -13.00         | -24.49          | H        |
| 6848.45                                                                           | -32.49        | 12.33    | 21.13 | -41.29        | -13.00         | -28.29          | H        |
| 3423.79                                                                           | -35.65        | 12.90    | 12.56 | -35.31        | -13.00         | -22.31          | V        |
| 5135.88                                                                           | -34.95        | 13.10    | 16.32 | -38.17        | -13.00         | -25.17          | V        |
| 6848.45                                                                           | -32.12        | 12.33    | 21.13 | -40.92        | -13.00         | -27.92          | 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 |
| 3464.51                                                                           | -33.81        | 12.90    | 12.56 | -33.47        | -13.00         | -20.47          | H        |
| 5196.93                                                                           | -34.30        | 13.10    | 16.32 | -37.52        | -13.00         | -24.52          | H        |
| 6929.71                                                                           | -33.41        | 12.33    | 21.13 | -42.21        | -13.00         | -29.21          | H        |
| 3464.51                                                                           | -35.79        | 12.90    | 12.56 | -35.45        | -13.00         | -22.45          | V        |
| 5196.93                                                                           | -34.16        | 13.10    | 16.32 | -37.38        | -13.00         | -24.38          | V        |
| 6929.71                                                                           | -33.12        | 12.33    | 21.13 | -41.92        | -13.00         | -28.92          | 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 |
| 3506.10                                                                           | -33.69        | 12.90    | 12.56 | -33.35        | -13.00         | -20.35          | H        |
| 5261.95                                                                           | -34.56        | 13.10    | 16.32 | -37.78        | -13.00         | -24.78          | H        |
| 7012.56                                                                           | -32.49        | 12.33    | 21.13 | -41.29        | -13.00         | -28.29          | H        |
| 3506.10                                                                           | -34.78        | 12.90    | 12.56 | -34.44        | -13.00         | -21.44          | V        |
| 5261.95                                                                           | -35.13        | 13.10    | 16.32 | -38.35        | -13.00         | -25.35          | V        |
| 7012.56                                                                           | -32.78        | 12.33    | 21.13 | -41.58        | -13.00         | -28.58          | 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<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 3424.66                                                                           | -34.57        | 12.90    | 12.56 | -34.23        | -13.00         | -21.23          | H        |
| 5137.00                                                                           | -34.65        | 13.10    | 16.32 | -37.87        | -13.00         | -24.87          | H        |
| 6849.69                                                                           | -32.45        | 12.33    | 21.13 | -41.25        | -13.00         | -28.25          | H        |
| 3424.66                                                                           | -35.64        | 12.90    | 12.56 | -35.30        | -13.00         | -22.30          | V        |
| 5137.00                                                                           | -34.65        | 13.10    | 16.32 | -37.87        | -13.00         | -24.87          | V        |
| 6849.69                                                                           | -32.27        | 12.33    | 21.13 | -41.07        | -13.00         | -28.07          | 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<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 3464.62                                                                           | -33.84        | 12.90    | 12.56 | -33.50        | -13.00         | -20.50          | H        |
| 5196.59                                                                           | -34.64        | 13.10    | 16.32 | -37.86        | -13.00         | -24.86          | H        |
| 6929.98                                                                           | -33.61        | 12.33    | 21.13 | -42.41        | -13.00         | -29.41          | H        |
| 3464.62                                                                           | -34.89        | 12.90    | 12.56 | -34.55        | -13.00         | -21.55          | V        |
| 5196.59                                                                           | -35.05        | 13.10    | 16.32 | -38.27        | -13.00         | -25.27          | V        |
| 6929.98                                                                           | -32.73        | 12.33    | 21.13 | -41.53        | -13.00         | -28.53          | 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<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 3505.18                                                                           | -34.69        | 12.90    | 12.56 | -34.35        | -13.00         | -21.35          | H        |
| 5256.76                                                                           | -34.29        | 13.10    | 16.32 | -37.51        | -13.00         | -24.51          | H        |
| 7009.81                                                                           | -32.82        | 12.33    | 21.13 | -41.62        | -13.00         | -28.62          | H        |
| 3505.18                                                                           | -35.45        | 12.90    | 12.56 | -35.11        | -13.00         | -22.11          | V        |
| 5256.76                                                                           | -34.14        | 13.10    | 16.32 | -37.36        | -13.00         | -24.36          | V        |
| 7009.81                                                                           | -32.27        | 12.33    | 21.13 | -41.07        | -13.00         | -28.07          | 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 |
| 3430.07                                                                            | -33.49        | 12.90    | 12.56 | -33.15        | -13.00         | -20.15          | H        |
| 5145.40                                                                            | -34.33        | 13.10    | 16.32 | -37.55        | -13.00         | -24.55          | H        |
| 6860.36                                                                            | -32.91        | 12.33    | 21.13 | -41.71        | -13.00         | -28.71          | H        |
| 3430.07                                                                            | -35.39        | 12.90    | 12.56 | -35.05        | -13.00         | -22.05          | V        |
| 5145.40                                                                            | -34.05        | 13.10    | 16.32 | -37.27        | -13.00         | -24.27          | V        |
| 6860.36                                                                            | -32.42        | 12.33    | 21.13 | -41.22        | -13.00         | -28.22          | 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 |
| 3464.37                                                                            | -33.67        | 12.90    | 12.56 | -33.33        | -13.00         | -20.33          | H        |
| 5196.63                                                                            | -35.12        | 13.10    | 16.32 | -38.34        | -13.00         | -25.34          | H        |
| 6929.52                                                                            | -33.55        | 12.33    | 21.13 | -42.35        | -13.00         | -29.35          | H        |
| 3464.37                                                                            | -34.88        | 12.90    | 12.56 | -34.54        | -13.00         | -21.54          | V        |
| 5196.63                                                                            | -34.83        | 13.10    | 16.32 | -38.05        | -13.00         | -25.05          | V        |
| 6929.52                                                                            | -32.06        | 12.33    | 21.13 | -40.86        | -13.00         | -27.86          | 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 |
| 3500.24                                                                            | -33.59        | 12.90    | 12.56 | -33.25        | -13.00         | -20.25          | H        |
| 5250.13                                                                            | -34.49        | 13.10    | 16.32 | -37.71        | -13.00         | -24.71          | H        |
| 6999.81                                                                            | -32.76        | 12.33    | 21.13 | -41.56        | -13.00         | -28.56          | H        |
| 3500.24                                                                            | -34.70        | 12.90    | 12.56 | -34.36        | -13.00         | -21.36          | V        |
| 5250.13                                                                            | -33.87        | 13.10    | 16.32 | -37.09        | -13.00         | -24.09          | V        |
| 6999.81                                                                            | -33.04        | 12.33    | 21.13 | -41.84        | -13.00         | -28.84          | 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 |
| 3434.69                                                                            | -34.26        | 12.90    | 12.56 | -33.92        | -13.00         | -20.92          | H        |
| 5152.31                                                                            | -34.27        | 13.10    | 16.32 | -37.49        | -13.00         | -24.49          | H        |
| 6870.64                                                                            | -32.77        | 12.33    | 21.13 | -41.57        | -13.00         | -28.57          | H        |
| 3434.69                                                                            | -34.94        | 12.90    | 12.56 | -34.60        | -13.00         | -21.60          | V        |
| 5152.31                                                                            | -33.97        | 13.10    | 16.32 | -37.19        | -13.00         | -24.19          | V        |
| 6870.64                                                                            | -32.69        | 12.33    | 21.13 | -41.49        | -13.00         | -28.49          | 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 |
| 3464.88                                                                            | -33.68        | 12.90    | 12.56 | -33.34        | -13.00         | -20.34          | H        |
| 5196.68                                                                            | -34.40        | 13.10    | 16.32 | -37.62        | -13.00         | -24.62          | H        |
| 6929.85                                                                            | -33.52        | 12.33    | 21.13 | -42.32        | -13.00         | -29.32          | H        |
| 3464.88                                                                            | -34.94        | 12.90    | 12.56 | -34.60        | -13.00         | -21.60          | V        |
| 5196.68                                                                            | -33.75        | 13.10    | 16.32 | -36.97        | -13.00         | -23.97          | V        |
| 6929.85                                                                            | -32.29        | 12.33    | 21.13 | -41.09        | -13.00         | -28.09          | 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 |
| 3495.49                                                                            | -34.48        | 12.90    | 12.56 | -34.14        | -13.00         | -21.14          | H        |
| 5242.33                                                                            | -34.60        | 13.10    | 16.32 | -37.82        | -13.00         | -24.82          | H        |
| 6990.29                                                                            | -32.84        | 12.33    | 21.13 | -41.64        | -13.00         | -28.64          | H        |
| 3495.49                                                                            | -35.04        | 12.90    | 12.56 | -34.70        | -13.00         | -21.70          | V        |
| 5242.33                                                                            | -34.13        | 13.10    | 16.32 | -37.35        | -13.00         | -24.35          | V        |
| 6990.29                                                                            | -32.82        | 12.33    | 21.13 | -41.62        | -13.00         | -28.62          | 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 |
| 3440.37                                                                            | -34.09        | 12.90    | 12.56 | -33.75        | -13.00         | -20.75          | H        |
| 5160.04                                                                            | -35.37        | 13.10    | 16.32 | -38.59        | -13.00         | -25.59          | H        |
| 6880.40                                                                            | -32.77        | 12.33    | 21.13 | -41.57        | -13.00         | -28.57          | H        |
| 3440.37                                                                            | -35.22        | 12.90    | 12.56 | -34.88        | -13.00         | -21.88          | V        |
| 5160.04                                                                            | -34.26        | 13.10    | 16.32 | -37.48        | -13.00         | -24.48          | V        |
| 6880.40                                                                            | -31.96        | 12.33    | 21.13 | -40.76        | -13.00         | -27.76          | 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 |
| 3464.71                                                                            | -34.14        | 12.90    | 12.56 | -33.80        | -13.00         | -20.80          | H        |
| 5196.51                                                                            | -34.60        | 13.10    | 16.32 | -37.82        | -13.00         | -24.82          | H        |
| 6929.69                                                                            | -32.66        | 12.33    | 21.13 | -41.46        | -13.00         | -28.46          | H        |
| 3464.71                                                                            | -35.00        | 12.90    | 12.56 | -34.66        | -13.00         | -21.66          | V        |
| 5196.51                                                                            | -34.75        | 13.10    | 16.32 | -37.97        | -13.00         | -24.97          | V        |
| 6929.69                                                                            | -32.97        | 12.33    | 21.13 | -41.77        | -13.00         | -28.77          | 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 |
| 3490.50                                                                            | -34.47        | 12.90    | 12.56 | -34.13        | -13.00         | -21.13          | H        |
| 5235.15                                                                            | -34.41        | 13.10    | 16.32 | -37.63        | -13.00         | -24.63          | H        |
| 6979.36                                                                            | -33.20        | 12.33    | 21.13 | -42.00        | -13.00         | -29.00          | H        |
| 3490.50                                                                            | -35.93        | 12.90    | 12.56 | -35.59        | -13.00         | -22.59          | V        |
| 5235.15                                                                            | -33.85        | 13.10    | 16.32 | -37.07        | -13.00         | -24.07          | V        |
| 6979.36                                                                            | -31.73        | 12.33    | 21.13 | -40.53        | -13.00         | -27.53          | 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 |
| 1648.72                                                                             | -33.92        | 9.56     | 9.72  | -34.08        | -13.00         | -21.08          | H        |
| 2473.59                                                                             | -35.37        | 10.50    | 10.86 | -35.73        | -13.00         | -22.73          | H        |
| 3298.69                                                                             | -32.81        | 12.78    | 11.57 | -31.60        | -13.00         | -18.60          | H        |
| 1648.72                                                                             | -34.53        | 9.56     | 9.72  | -34.69        | -13.00         | -21.69          | V        |
| 2473.59                                                                             | -33.76        | 10.50    | 10.86 | -34.12        | -13.00         | -21.12          | V        |
| 3298.69                                                                             | -32.95        | 12.78    | 11.57 | -31.74        | -13.00         | -18.74          | 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 |
| 1672.80                                                                             | -34.80        | 9.56     | 9.72  | -34.96        | -13.00         | -21.96          | H        |
| 2509.17                                                                             | -34.66        | 10.50    | 10.86 | -35.02        | -13.00         | -22.02          | H        |
| 3345.53                                                                             | -32.58        | 12.78    | 11.57 | -31.37        | -13.00         | -18.37          | H        |
| 1672.80                                                                             | -35.79        | 9.56     | 9.72  | -35.95        | -13.00         | -22.95          | V        |
| 2509.17                                                                             | -33.94        | 10.50    | 10.86 | -34.30        | -13.00         | -21.30          | V        |
| 3345.53                                                                             | -33.20        | 12.78    | 11.57 | -31.99        | -13.00         | -18.99          | 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 |
| 1696.25                                                                             | -34.93        | 9.56     | 9.72  | -35.09        | -13.00         | -22.09          | H        |
| 2544.34                                                                             | -34.71        | 10.50    | 10.86 | -35.07        | -13.00         | -22.07          | H        |
| 3393.00                                                                             | -32.65        | 12.78    | 11.57 | -31.44        | -13.00         | -18.44          | H        |
| 1696.25                                                                             | -35.23        | 9.56     | 9.72  | -35.39        | -13.00         | -22.39          | V        |
| 2544.34                                                                             | -34.24        | 10.50    | 10.86 | -34.60        | -13.00         | -21.60          | V        |
| 3393.00                                                                             | -32.69        | 12.78    | 11.57 | -31.48        | -13.00         | -18.48          | 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 |
| 1650.33                                                                           | -34.01        | 9.56     | 9.72  | -34.17        | -13.00         | -21.17          | H        |
| 2475.92                                                                           | -35.32        | 10.50    | 10.86 | -35.68        | -13.00         | -22.68          | H        |
| 3301.25                                                                           | -33.54        | 12.78    | 11.57 | -32.33        | -13.00         | -19.33          | H        |
| 1650.33                                                                           | -35.68        | 9.56     | 9.72  | -35.84        | -13.00         | -22.84          | V        |
| 2475.92                                                                           | -35.15        | 10.50    | 10.86 | -35.51        | -13.00         | -22.51          | V        |
| 3301.25                                                                           | -32.17        | 12.78    | 11.57 | -30.96        | -13.00         | -17.96          | 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 |
| 1672.40                                                                           | -33.80        | 9.56     | 9.72  | -33.96        | -13.00         | -20.96          | H        |
| 2508.75                                                                           | -34.35        | 10.50    | 10.86 | -34.71        | -13.00         | -21.71          | H        |
| 3345.68                                                                           | -32.46        | 12.78    | 11.57 | -31.25        | -13.00         | -18.25          | N/A      |
| 1672.40                                                                           | -35.10        | 9.56     | 9.72  | -35.26        | -13.00         | -22.26          | V        |
| 2508.75                                                                           | -35.13        | 10.50    | 10.86 | -35.49        | -13.00         | -22.49          | V        |
| 3345.68                                                                           | -32.88        | 12.78    | 11.57 | -31.67        | -13.00         | -18.67          | 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 |
| 1694.29                                                                           | -34.56        | 9.56     | 9.72  | -34.72        | -13.00         | -21.72          | H        |
| 2542.09                                                                           | -34.87        | 10.50    | 10.86 | -35.23        | -13.00         | -22.23          | H        |
| 3389.34                                                                           | -32.96        | 12.78    | 11.57 | -31.75        | -13.00         | -18.75          | H        |
| 1694.29                                                                           | -35.89        | 9.56     | 9.72  | -36.05        | -13.00         | -23.05          | V        |
| 2542.09                                                                           | -35.00        | 10.50    | 10.86 | -35.36        | -13.00         | -22.36          | V        |
| 3389.34                                                                           | -32.07        | 12.78    | 11.57 | -30.86        | -13.00         | -17.86          | 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 |
| 1652.64                                                                           | -34.94        | 9.56     | 9.72  | -35.10        | -13.00         | -22.10          | H        |
| 2478.70                                                                           | -35.33        | 10.50    | 10.86 | -35.69        | -13.00         | -22.69          | H        |
| 3305.65                                                                           | -32.22        | 12.78    | 11.57 | -31.01        | -13.00         | -18.01          | H        |
| 1652.64                                                                           | -34.55        | 9.56     | 9.72  | -34.71        | -13.00         | -21.71          | V        |
| 2478.70                                                                           | -34.11        | 10.50    | 10.86 | -34.47        | -13.00         | -21.47          | V        |
| 3305.65                                                                           | -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 |
| 1672.43                                                                           | -34.07        | 9.56     | 9.72  | -34.23        | -13.00         | -21.23          | H        |
| 2508.87                                                                           | -35.20        | 10.50    | 10.86 | -35.56        | -13.00         | -22.56          | H        |
| 3345.49                                                                           | -32.87        | 12.78    | 11.57 | -31.66        | -13.00         | -18.66          | H        |
| 1672.43                                                                           | -35.26        | 9.56     | 9.72  | -35.42        | -13.00         | -22.42          | V        |
| 2508.87                                                                           | -35.16        | 10.50    | 10.86 | -35.52        | -13.00         | -22.52          | V        |
| 3345.49                                                                           | -31.78        | 12.78    | 11.57 | -30.57        | -13.00         | -17.57          | 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 |
| 1692.57                                                                           | -33.45        | 9.56     | 9.72  | -33.61        | -13.00         | -20.61          | H        |
| 2538.84                                                                           | -34.31        | 10.50    | 10.86 | -34.67        | -13.00         | -21.67          | H        |
| 3385.73                                                                           | -32.83        | 12.78    | 11.57 | -31.62        | -13.00         | -18.62          | H        |
| 1692.57                                                                           | -35.88        | 9.56     | 9.72  | -36.04        | -13.00         | -23.04          | V        |
| 2538.84                                                                           | -34.47        | 10.50    | 10.86 | -34.83        | -13.00         | -21.83          | V        |
| 3385.73                                                                           | -32.65        | 12.78    | 11.57 | -31.44        | -13.00         | -18.44          | 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 |
| 1657.91                                                                            | -33.84        | 9.56     | 9.72  | -34.00        | -13.00         | -21.00          | H        |
| 2486.09                                                                            | -34.88        | 10.50    | 10.86 | -35.24        | -13.00         | -22.24          | H        |
| 3315.20                                                                            | -33.58        | 12.78    | 11.57 | -32.37        | -13.00         | -19.37          | H        |
| 1657.91                                                                            | -35.36        | 9.56     | 9.72  | -35.52        | -13.00         | -22.52          | V        |
| 2486.09                                                                            | -34.36        | 10.50    | 10.86 | -34.72        | -13.00         | -21.72          | V        |
| 3315.20                                                                            | -32.12        | 12.78    | 11.57 | -30.91        | -13.00         | -17.91          | 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 |
| 1672.41                                                                            | -34.86        | 9.56     | 9.72  | -35.02        | -13.00         | -22.02          | H        |
| 2508.98                                                                            | -35.15        | 10.50    | 10.86 | -35.51        | -13.00         | -22.51          | H        |
| 3345.24                                                                            | -33.14        | 12.78    | 11.57 | -31.93        | -13.00         | -18.93          | H        |
| 1672.41                                                                            | -35.06        | 9.56     | 9.72  | -35.22        | -13.00         | -22.22          | V        |
| 2508.98                                                                            | -34.82        | 10.50    | 10.86 | -35.18        | -13.00         | -22.18          | V        |
| 3345.24                                                                            | -32.37        | 12.78    | 11.57 | -31.16        | -13.00         | -18.16          | 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 |
| 1687.53                                                                            | -34.52        | 9.56     | 9.72  | -34.68        | -13.00         | -21.68          | H        |
| 2531.60                                                                            | -35.40        | 10.50    | 10.86 | -35.76        | -13.00         | -22.76          | H        |
| 3375.89                                                                            | -32.16        | 12.78    | 11.57 | -30.95        | -13.00         | -17.95          | H        |
| 1687.53                                                                            | -35.31        | 9.56     | 9.72  | -35.47        | -13.00         | -22.47          | V        |
| 2531.60                                                                            | -34.79        | 10.50    | 10.86 | -35.15        | -13.00         | -22.15          | V        |
| 3375.89                                                                            | -31.91        | 12.78    | 11.57 | -30.70        | -13.00         | -17.70          | 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 (dBm) | Limit (dBm) | Margin (dBm) | Polarity |
| 1399.28                                                                              | -33.66        | 8.17     | 9.34  | -34.83     | -13.00      | -21.83       | H        |
| 2098.81                                                                              | -34.44        | 9.53     | 10.42 | -35.33     | -13.00      | -22.33       | H        |
| 2798.64                                                                              | -32.93        | 11.27    | 11.12 | -32.78     | -13.00      | -19.78       | H        |
| 1399.28                                                                              | -34.69        | 8.17     | 9.34  | -35.86     | -13.00      | -22.86       | V        |
| 2098.81                                                                              | -34.54        | 9.53     | 10.42 | -35.43     | -13.00      | -22.43       | V        |
| 2798.64                                                                              | -33.16        | 11.27    | 11.12 | -33.01     | -13.00      | -20.01       | 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 (dBm) | Limit (dBm) | Margin (dBm) | Polarity |
| 1414.71                                                                              | -33.96        | 8.17     | 9.34  | -35.13     | -13.00      | -22.13       | H        |
| 2122.46                                                                              | -34.13        | 9.53     | 10.42 | -35.02     | -13.00      | -22.02       | H        |
| 2829.88                                                                              | -32.46        | 11.27    | 11.12 | -32.31     | -13.00      | -19.31       | H        |
| 1414.71                                                                              | -35.67        | 8.17     | 9.34  | -36.84     | -13.00      | -23.84       | V        |
| 2122.46                                                                              | -34.54        | 9.53     | 10.42 | -35.43     | -13.00      | -22.43       | V        |
| 2829.88                                                                              | -32.59        | 11.27    | 11.12 | -32.44     | -13.00      | -19.44       | 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 (dBm) | Limit (dBm) | Margin (dBm) | Polarity |
| 1430.46                                                                              | -33.53        | 8.17     | 9.34  | -34.70     | -13.00      | -21.70       | H        |
| 2145.75                                                                              | -35.42        | 9.53     | 10.42 | -36.31     | -13.00      | -23.31       | H        |
| 2860.94                                                                              | -32.94        | 11.27    | 11.12 | -32.79     | -13.00      | -19.79       | H        |
| 1430.46                                                                              | -34.95        | 8.17     | 9.34  | -36.12     | -13.00      | -23.12       | V        |
| 2145.75                                                                              | -34.92        | 9.53     | 10.42 | -35.81     | -13.00      | -22.81       | V        |
| 2860.94                                                                              | -32.42        | 11.27    | 11.12 | -32.27     | -13.00      | -19.27       | 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 |
| 1400.88                                                                            | -34.51        | 8.17     | 9.34  | -35.68        | -13.00         | -22.68          | H        |
| 2101.26                                                                            | -34.41        | 9.53     | 10.42 | -35.30        | -13.00         | -22.30          | H        |
| 2801.68                                                                            | -32.53        | 11.27    | 11.12 | -32.38        | -13.00         | -19.38          | H        |
| 1400.88                                                                            | -35.96        | 8.17     | 9.34  | -37.13        | -13.00         | -24.13          | V        |
| 2101.26                                                                            | -34.30        | 9.53     | 10.42 | -35.19        | -13.00         | -22.19          | V        |
| 2801.68                                                                            | -32.58        | 11.27    | 11.12 | -32.43        | -13.00         | -19.43          | 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 |
| 1414.82                                                                            | -33.75        | 8.17     | 9.34  | -34.92        | -13.00         | -21.92          | H        |
| 2122.21                                                                            | -35.45        | 9.53     | 10.42 | -36.34        | -13.00         | -23.34          | H        |
| 2829.54                                                                            | -32.70        | 11.27    | 11.12 | -32.55        | -13.00         | -19.55          | H        |
| 1414.82                                                                            | -35.61        | 8.17     | 9.34  | -36.78        | -13.00         | -23.78          | V        |
| 2122.21                                                                            | -34.32        | 9.53     | 10.42 | -35.21        | -13.00         | -22.21          | V        |
| 2829.54                                                                            | -32.34        | 11.27    | 11.12 | -32.19        | -13.00         | -19.19          | 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 |
| 1428.57                                                                            | -34.22        | 8.17     | 9.34  | -35.39        | -13.00         | -22.39          | H        |
| 2143.46                                                                            | -34.97        | 9.53     | 10.42 | -35.86        | -13.00         | -22.86          | H        |
| 2857.63                                                                            | -32.59        | 11.27    | 11.12 | -32.44        | -13.00         | -19.44          | H        |
| 1428.57                                                                            | -34.68        | 8.17     | 9.34  | -35.85        | -13.00         | -22.85          | V        |
| 2143.46                                                                            | -34.03        | 9.53     | 10.42 | -34.92        | -13.00         | -21.92          | V        |
| 2857.63                                                                            | -32.22        | 11.27    | 11.12 | -32.07        | -13.00         | -19.07          | 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 |
| 1402.58                                                                            | -33.58        | 8.17     | 9.34  | -34.75        | -13.00         | -21.75          | H        |
| 2104.23                                                                            | -35.16        | 9.53     | 10.42 | -36.05        | -13.00         | -23.05          | H        |
| 2805.71                                                                            | -32.99        | 11.27    | 11.12 | -32.84        | -13.00         | -19.84          | H        |
| 1402.58                                                                            | -34.72        | 8.17     | 9.34  | -35.89        | -13.00         | -22.89          | V        |
| 2104.23                                                                            | -33.77        | 9.53     | 10.42 | -34.66        | -13.00         | -21.66          | V        |
| 2805.71                                                                            | -32.06        | 11.27    | 11.12 | -31.91        | -13.00         | -18.91          | 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 |
| 1414.67                                                                            | -34.17        | 8.17     | 9.34  | -35.34        | -13.00         | -22.34          | H        |
| 2122.24                                                                            | -34.84        | 9.53     | 10.42 | -35.73        | -13.00         | -22.73          | H        |
| 2829.62                                                                            | -32.54        | 11.27    | 11.12 | -32.39        | -13.00         | -19.39          | H        |
| 1414.67                                                                            | -36.01        | 8.17     | 9.34  | -37.18        | -13.00         | -24.18          | V        |
| 2122.24                                                                            | -34.37        | 9.53     | 10.42 | -35.26        | -13.00         | -22.26          | V        |
| 2829.62                                                                            | -32.11        | 11.27    | 11.12 | -31.96        | -13.00         | -18.96          | 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 |
| 1426.74                                                                            | -33.63        | 8.17     | 9.34  | -34.80        | -13.00         | -21.80          | H        |
| 2140.47                                                                            | -35.35        | 9.53     | 10.42 | -36.24        | -13.00         | -23.24          | H        |
| 2853.80                                                                            | -33.64        | 11.27    | 11.12 | -33.49        | -13.00         | -20.49          | H        |
| 1426.74                                                                            | -34.68        | 8.17     | 9.34  | -35.85        | -13.00         | -22.85          | V        |
| 2140.47                                                                            | -34.40        | 9.53     | 10.42 | -35.29        | -13.00         | -22.29          | V        |
| 2853.80                                                                            | -32.01        | 11.27    | 11.12 | -31.86        | -13.00         | -18.86          | 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 |
| 1407.63                                                                             | -33.77        | 8.17     | 9.34  | -34.94        | -13.00         | -21.94          | H        |
| 2111.79                                                                             | -35.22        | 9.53     | 10.42 | -36.11        | -13.00         | -23.11          | H        |
| 2815.83                                                                             | -33.27        | 11.27    | 11.12 | -33.12        | -13.00         | -20.12          | H        |
| 1407.63                                                                             | -34.81        | 8.17     | 9.34  | -35.98        | -13.00         | -22.98          | V        |
| 2111.79                                                                             | -35.18        | 9.53     | 10.42 | -36.07        | -13.00         | -23.07          | V        |
| 2815.83                                                                             | -33.00        | 11.27    | 11.12 | -32.85        | -13.00         | -19.85          | 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 |
| 1414.98                                                                             | -33.99        | 8.17     | 9.34  | -35.16        | -13.00         | -22.16          | H        |
| 2122.35                                                                             | -34.54        | 9.53     | 10.42 | -35.43        | -13.00         | -22.43          | H        |
| 2829.96                                                                             | -32.84        | 11.27    | 11.12 | -32.69        | -13.00         | -19.69          | H        |
| 1414.98                                                                             | -35.17        | 8.17     | 9.34  | -36.34        | -13.00         | -23.34          | V        |
| 2122.35                                                                             | -34.17        | 9.53     | 10.42 | -35.06        | -13.00         | -22.06          | V        |
| 2829.96                                                                             | -32.85        | 11.27    | 11.12 | -32.70        | -13.00         | -19.70          | 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 |
| 1421.59                                                                             | -33.63        | 8.17     | 9.34  | -34.80        | -13.00         | -21.80          | H        |
| 2132.54                                                                             | -35.35        | 9.53     | 10.42 | -36.24        | -13.00         | -23.24          | H        |
| 2843.66                                                                             | -32.50        | 11.27    | 11.12 | -32.35        | -13.00         | -19.35          | H        |
| 1421.59                                                                             | -35.24        | 8.17     | 9.34  | -36.41        | -13.00         | -23.41          | V        |
| 2132.54                                                                             | -34.93        | 9.53     | 10.42 | -35.82        | -13.00         | -22.82          | V        |
| 2843.66                                                                             | -31.99        | 11.27    | 11.12 | -31.84        | -13.00         | -18.84          | V        |



| LTE Band 13 / 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 |
| 1559.14                                                                            | -33.74        | 9.56     | 9.72  | -33.90        | -13.00         | -20.90          | H        |
| 2338.24                                                                            | -35.48        | 10.50    | 10.86 | -35.84        | -13.00         | -22.84          | H        |
| 3118.21                                                                            | -33.04        | 12.78    | 11.57 | -31.83        | -13.00         | -18.83          | H        |
| 1559.14                                                                            | -34.95        | 9.56     | 9.72  | -35.11        | -13.00         | -22.11          | V        |
| 2338.24                                                                            | -34.77        | 10.50    | 10.86 | -35.13        | -13.00         | -22.13          | V        |
| 3118.21                                                                            | -32.30        | 12.78    | 11.57 | -31.09        | -13.00         | -18.09          | V        |
| LTE Band 13 / 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 |
| 1563.96                                                                            | -33.60        | 9.56     | 9.72  | -33.76        | -13.00         | -20.76          | H        |
| 2345.84                                                                            | -34.33        | 10.50    | 10.86 | -34.69        | -13.00         | -21.69          | H        |
| 3128.01                                                                            | -33.56        | 12.78    | 11.57 | -32.35        | -13.00         | -19.35          | H        |
| 1563.96                                                                            | -35.82        | 9.56     | 9.72  | -35.98        | -13.00         | -22.98          | V        |
| 2345.84                                                                            | -34.70        | 10.50    | 10.86 | -35.06        | -13.00         | -22.06          | V        |
| 3128.01                                                                            | -32.72        | 12.78    | 11.57 | -31.51        | -13.00         | -18.51          | V        |
| LTE Band 13 / 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 |
| 1568.98                                                                            | -34.71        | 9.56     | 9.72  | -34.87        | -13.00         | -21.87          | H        |
| 2353.20                                                                            | -34.34        | 10.50    | 10.86 | -34.70        | -13.00         | -21.70          | H        |
| 3138.10                                                                            | -32.18        | 12.78    | 11.57 | -30.97        | -13.00         | -17.97          | H        |
| 1568.98                                                                            | -34.62        | 9.56     | 9.72  | -34.78        | -13.00         | -21.78          | V        |
| 2353.20                                                                            | -35.02        | 10.50    | 10.86 | -35.38        | -13.00         | -22.38          | V        |
| 3138.10                                                                            | -32.60        | 12.78    | 11.57 | -31.39        | -13.00         | -18.39          | V        |
| LTE Band 13 / 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 |
| 1564.05                                                                            | -33.51        | 9.56     | 9.72  | -33.67        | -13.00         | -20.67          | H        |
| 2346.18                                                                            | -35.22        | 10.50    | 10.86 | -35.58        | -13.00         | -22.58          | H        |
| 3127.73                                                                            | -32.92        | 12.78    | 11.57 | -31.71        | -13.00         | -18.71          | H        |
| 1564.05                                                                            | -34.79        | 9.56     | 9.72  | -34.95        | -13.00         | -21.95          | V        |
| 2346.18                                                                            | -33.79        | 10.50    | 10.86 | -34.15        | -13.00         | -21.15          | V        |
| 3127.73                                                                            | -33.12        | 12.78    | 11.57 | -31.91        | -13.00         | -18.91          | V        |



| LTE Band 25 / 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 |
| 3701.34                                                                              | -34.26        | 12.60    | 12.93 | -34.59        | -13.00         | -21.59          | H        |
| 5551.68                                                                              | -34.25        | 13.10    | 17.11 | -38.26        | -13.00         | -25.26          | H        |
| 7402.49                                                                              | -33.28        | 11.50    | 22.20 | -43.98        | -13.00         | -30.98          | H        |
| 3701.34                                                                              | -35.18        | 12.60    | 12.93 | -35.51        | -13.00         | -22.51          | V        |
| 5551.68                                                                              | -35.17        | 13.10    | 17.11 | -39.18        | -13.00         | -26.18          | V        |
| 7402.49                                                                              | -32.73        | 11.50    | 22.20 | -43.43        | -13.00         | -30.43          | V        |
| LTE Band 25 / 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 |
| 3764.82                                                                              | -34.29        | 12.60    | 12.93 | -34.62        | -13.00         | -21.62          | H        |
| 5646.96                                                                              | -35.42        | 13.10    | 17.11 | -39.43        | -13.00         | -26.43          | H        |
| 7530.03                                                                              | -32.41        | 11.50    | 22.20 | -43.11        | -13.00         | -30.11          | H        |
| 3764.82                                                                              | -35.78        | 12.60    | 12.93 | -36.11        | -13.00         | -23.11          | V        |
| 5646.96                                                                              | -34.21        | 13.10    | 17.11 | -38.22        | -13.00         | -25.22          | V        |
| 7530.03                                                                              | -31.91        | 11.50    | 22.20 | -42.61        | -13.00         | -29.61          | V        |
| LTE Band 25 / 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 |
| 3828.29                                                                              | -34.23        | 12.60    | 12.93 | -34.56        | -13.00         | -21.56          | H        |
| 5727.48                                                                              | -35.05        | 13.10    | 17.11 | -39.06        | -13.00         | -26.06          | H        |
| 7657.09                                                                              | -32.72        | 11.50    | 22.20 | -43.42        | -13.00         | -30.42          | H        |
| 3828.29                                                                              | -35.13        | 12.60    | 12.93 | -35.46        | -13.00         | -22.46          | V        |
| 5727.48                                                                              | -35.13        | 13.10    | 17.11 | -39.14        | -13.00         | -26.14          | V        |
| 7657.09                                                                              | -32.17        | 11.50    | 22.20 | -42.87        | -13.00         | -29.87          | V        |



| LTE Band 25 / 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 |
| 3702.97                                                                            | -33.61        | 12.60    | 12.93 | -33.94        | -13.00         | -20.94          | H        |
| 5554.10                                                                            | -35.20        | 13.10    | 17.11 | -39.21        | -13.00         | -26.21          | H        |
| 7405.83                                                                            | -33.36        | 11.50    | 22.20 | -44.06        | -13.00         | -31.06          | H        |
| 3702.97                                                                            | -34.72        | 12.60    | 12.93 | -35.05        | -13.00         | -22.05          | V        |
| 5554.10                                                                            | -33.81        | 13.10    | 17.11 | -37.82        | -13.00         | -24.82          | V        |
| 7405.83                                                                            | -32.55        | 11.50    | 22.20 | -43.25        | -13.00         | -30.25          | V        |
| LTE Band 25 / 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 |
| 3764.81                                                                            | -34.51        | 12.60    | 12.93 | -34.84        | -13.00         | -21.84          | H        |
| 5646.85                                                                            | -34.68        | 13.10    | 17.11 | -38.69        | -13.00         | -25.69          | H        |
| 7529.82                                                                            | -32.61        | 11.50    | 22.20 | -43.31        | -13.00         | -30.31          | H        |
| 3764.81                                                                            | -36.00        | 12.60    | 12.93 | -36.33        | -13.00         | -23.33          | V        |
| 5646.85                                                                            | -34.90        | 13.10    | 17.11 | -38.91        | -13.00         | -25.91          | V        |
| 7529.82                                                                            | -32.04        | 11.50    | 22.20 | -42.74        | -13.00         | -29.74          | V        |
| LTE Band 25 / 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 |
| 3826.87                                                                            | -34.03        | 12.60    | 12.93 | -34.36        | -13.00         | -21.36          | H        |
| 5739.99                                                                            | -34.56        | 13.10    | 17.11 | -38.57        | -13.00         | -25.57          | H        |
| 7654.35                                                                            | -33.17        | 11.50    | 22.20 | -43.87        | -13.00         | -30.87          | H        |
| 3826.87                                                                            | -35.14        | 12.60    | 12.93 | -35.47        | -13.00         | -22.47          | V        |
| 5739.99                                                                            | -34.25        | 13.10    | 17.11 | -38.26        | -13.00         | -25.26          | V        |
| 7654.35                                                                            | -32.16        | 11.50    | 22.20 | -42.86        | -13.00         | -29.86          | V        |



| LTE Band 25 / 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 |
| 3705.33                                                                            | -33.50        | 12.60    | 12.93 | -33.83        | -13.00         | -20.83          | H        |
| 5557.28                                                                            | -35.47        | 13.10    | 17.11 | -39.48        | -13.00         | -26.48          | H        |
| 7409.88                                                                            | -32.28        | 11.50    | 22.20 | -42.98        | -13.00         | -29.98          | H        |
| 3705.33                                                                            | -35.52        | 12.60    | 12.93 | -35.85        | -13.00         | -22.85          | V        |
| 5557.28                                                                            | -35.01        | 13.10    | 17.11 | -39.02        | -13.00         | -26.02          | V        |
| 7409.88                                                                            | -32.79        | 11.50    | 22.20 | -43.49        | -13.00         | -30.49          | V        |
| LTE Band 25 / 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 |
| 3764.87                                                                            | -34.77        | 12.60    | 12.93 | -35.10        | -13.00         | -22.10          | H        |
| 5647.03                                                                            | -35.05        | 13.10    | 17.11 | -39.06        | -13.00         | -26.06          | H        |
| 7530.10                                                                            | -33.27        | 11.50    | 22.20 | -43.97        | -13.00         | -30.97          | H        |
| 3764.87                                                                            | -35.29        | 12.60    | 12.93 | -35.62        | -13.00         | -22.62          | V        |
| 5647.03                                                                            | -33.96        | 13.10    | 17.11 | -37.97        | -13.00         | -24.97          | V        |
| 7530.10                                                                            | -32.96        | 11.50    | 22.20 | -43.66        | -13.00         | -30.66          | V        |
| LTE Band 25 / 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 |
| 3825.20                                                                            | -33.60        | 12.60    | 12.93 | -33.93        | -13.00         | -20.93          | H        |
| 5737.15                                                                            | -34.86        | 13.10    | 17.11 | -38.87        | -13.00         | -25.87          | H        |
| 7650.55                                                                            | -32.23        | 11.50    | 22.20 | -42.93        | -13.00         | -29.93          | H        |
| 3825.20                                                                            | -34.53        | 12.60    | 12.93 | -34.86        | -13.00         | -21.86          | V        |
| 5737.15                                                                            | -35.09        | 13.10    | 17.11 | -39.10        | -13.00         | -26.10          | V        |
| 7650.55                                                                            | -33.04        | 11.50    | 22.20 | -43.74        | -13.00         | -30.74          | V        |



| LTE Band 25 / 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 |
| 3710.12                                                                             | -33.57        | 12.60    | 12.93 | -33.90        | -13.00         | -20.90          | H        |
| 5565.41                                                                             | -34.27        | 13.10    | 17.11 | -38.28        | -13.00         | -25.28          | H        |
| 7420.23                                                                             | -33.32        | 11.50    | 22.20 | -44.02        | -13.00         | -31.02          | H        |
| 3710.12                                                                             | -34.52        | 12.60    | 12.93 | -34.85        | -13.00         | -21.85          | V        |
| 5565.41                                                                             | -34.65        | 13.10    | 17.11 | -38.66        | -13.00         | -25.66          | V        |
| 7420.23                                                                             | -32.38        | 11.50    | 22.20 | -43.08        | -13.00         | -30.08          | V        |
| LTE Band 25 / 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 |
| 3764.86                                                                             | -34.51        | 12.60    | 12.93 | -34.84        | -13.00         | -21.84          | H        |
| 5647.46                                                                             | -34.26        | 13.10    | 17.11 | -38.27        | -13.00         | -25.27          | H        |
| 7529.92                                                                             | -32.82        | 11.50    | 22.20 | -43.52        | -13.00         | -30.52          | H        |
| 3764.86                                                                             | -35.02        | 12.60    | 12.93 | -35.35        | -13.00         | -22.35          | V        |
| 5647.46                                                                             | -33.99        | 13.10    | 17.11 | -38.00        | -13.00         | -25.00          | V        |
| 7529.92                                                                             | -32.30        | 11.50    | 22.20 | -43.00        | -13.00         | -30.00          | V        |
| LTE Band 25 / 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 |
| 3820.20                                                                             | -34.12        | 12.60    | 12.93 | -34.45        | -13.00         | -21.45          | H        |
| 5729.85                                                                             | -34.11        | 13.10    | 17.11 | -38.12        | -13.00         | -25.12          | H        |
| 7640.05                                                                             | -32.26        | 11.50    | 22.20 | -42.96        | -13.00         | -29.96          | H        |
| 3820.20                                                                             | -34.57        | 12.60    | 12.93 | -34.90        | -13.00         | -21.90          | V        |
| 5729.85                                                                             | -33.77        | 13.10    | 17.11 | -37.78        | -13.00         | -24.78          | V        |
| 7640.05                                                                             | -32.94        | 11.50    | 22.20 | -43.64        | -13.00         | -30.64          | V        |



| LTE Band 25 / 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 |
| 3715.21                                                                             | -34.66        | 12.60    | 12.93 | -34.99        | -13.00         | -21.99          | H        |
| 5572.30                                                                             | -34.21        | 13.10    | 17.11 | -38.22        | -13.00         | -25.22          | H        |
| 7430.75                                                                             | -32.70        | 11.50    | 22.20 | -43.40        | -13.00         | -30.40          | H        |
| 3715.21                                                                             | -35.24        | 12.60    | 12.93 | -35.57        | -13.00         | -22.57          | V        |
| 5572.30                                                                             | -33.92        | 13.10    | 17.11 | -37.93        | -13.00         | -24.93          | V        |
| 7430.75                                                                             | -32.89        | 11.50    | 22.20 | -43.59        | -13.00         | -30.59          | V        |
| LTE Band 25 / 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 |
| 3765.13                                                                             | -33.90        | 12.60    | 12.93 | -34.23        | -13.00         | -21.23          | H        |
| 5647.11                                                                             | -34.72        | 13.10    | 17.11 | -38.73        | -13.00         | -25.73          | H        |
| 7429.83                                                                             | -32.87        | 11.50    | 22.20 | -43.57        | -13.00         | -30.57          | H        |
| 3765.13                                                                             | -34.54        | 12.60    | 12.93 | -34.87        | -13.00         | -21.87          | V        |
| 5647.11                                                                             | -34.21        | 13.10    | 17.11 | -38.22        | -13.00         | -25.22          | V        |
| 7429.83                                                                             | -31.80        | 11.50    | 22.20 | -42.50        | -13.00         | -29.50          | V        |
| LTE Band 25 / 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 |
| 3815.35                                                                             | -33.70        | 12.60    | 12.93 | -34.03        | -13.00         | -21.03          | H        |
| 5722.24                                                                             | -34.45        | 13.10    | 17.11 | -38.46        | -13.00         | -25.46          | H        |
| 7630.14                                                                             | -32.33        | 11.50    | 22.20 | -43.03        | -13.00         | -30.03          | H        |
| 3815.35                                                                             | -35.26        | 12.60    | 12.93 | -35.59        | -13.00         | -22.59          | V        |
| 5722.24                                                                             | -34.51        | 13.10    | 17.11 | -38.52        | -13.00         | -25.52          | V        |
| 7630.14                                                                             | -32.19        | 11.50    | 22.20 | -42.89        | -13.00         | -29.89          | V        |



| LTE Band 25 / 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 |
| 3720.08                                                                             | -34.66        | 12.60    | 12.93 | -34.99        | -13.00         | -21.99          | H        |
| 5580.33                                                                             | -35.37        | 13.10    | 17.11 | -39.38        | -13.00         | -26.38          | H        |
| 7440.12                                                                             | -33.08        | 11.50    | 22.20 | -43.78        | -13.00         | -30.78          | H        |
| 3720.08                                                                             | -35.63        | 12.60    | 12.93 | -35.96        | -13.00         | -22.96          | V        |
| 5580.33                                                                             | -34.31        | 13.10    | 17.11 | -38.32        | -13.00         | -25.32          | V        |
| 7440.12                                                                             | -32.16        | 11.50    | 22.20 | -42.86        | -13.00         | -29.86          | V        |
| LTE Band 25 / 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 |
| 3765.16                                                                             | -34.76        | 12.60    | 12.93 | -35.09        | -13.00         | -22.09          | H        |
| 5647.10                                                                             | -34.87        | 13.10    | 17.11 | -38.88        | -13.00         | -25.88          | H        |
| 7529.97                                                                             | -32.96        | 11.50    | 22.20 | -43.66        | -13.00         | -30.66          | H        |
| 3765.16                                                                             | -34.89        | 12.60    | 12.93 | -35.22        | -13.00         | -22.22          | V        |
| 5647.10                                                                             | -35.20        | 13.10    | 17.11 | -39.21        | -13.00         | -26.21          | V        |
| 7529.97                                                                             | -31.92        | 11.50    | 22.20 | -42.62        | -13.00         | -29.62          | V        |
| LTE Band 25 / 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 |
| 3810.18                                                                             | -34.27        | 12.60    | 12.93 | -34.60        | -13.00         | -21.60          | H        |
| 5715.35                                                                             | -34.92        | 13.10    | 17.11 | -38.93        | -13.00         | -25.93          | H        |
| 7620.15                                                                             | -33.43        | 11.50    | 22.20 | -44.13        | -13.00         | -31.13          | H        |
| 3810.18                                                                             | -35.13        | 12.60    | 12.93 | -35.46        | -13.00         | -22.46          | V        |
| 5715.35                                                                             | -34.46        | 13.10    | 17.11 | -38.47        | -13.00         | -25.47          | V        |
| 7620.15                                                                             | -32.35        | 11.50    | 22.20 | -43.05        | -13.00         | -30.05          | V        |



| LTE Band 26(Part 22) / 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 |
| 1649.19                                                                                       | -33.78        | 9.56     | 9.72  | -33.94     | -13.00      | -20.94       | H        |
| 2473.56                                                                                       | -34.28        | 10.50    | 10.86 | -34.64     | -13.00      | -21.64       | H        |
| 3298.83                                                                                       | -32.27        | 12.78    | 11.57 | -31.06     | -13.00      | -18.06       | H        |
| 1649.19                                                                                       | -35.53        | 9.56     | 9.72  | -35.69     | -13.00      | -22.69       | V        |
| 2473.56                                                                                       | -34.07        | 10.50    | 10.86 | -34.43     | -13.00      | -21.43       | V        |
| 3298.83                                                                                       | -32.68        | 12.78    | 11.57 | -31.47     | -13.00      | -18.47       | V        |
| LTE Band 26(Part 22) / 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 |
| 1672.83                                                                                       | -34.59        | 9.56     | 9.72  | -34.75     | -13.00      | -21.75       | H        |
| 2508.93                                                                                       | -34.93        | 10.50    | 10.86 | -35.29     | -13.00      | -22.29       | H        |
| 3345.90                                                                                       | -33.52        | 12.78    | 11.57 | -32.31     | -13.00      | -19.31       | H        |
| 1672.83                                                                                       | -35.05        | 9.56     | 9.72  | -35.21     | -13.00      | -22.21       | V        |
| 2508.93                                                                                       | -34.74        | 10.50    | 10.86 | -35.10     | -13.00      | -22.10       | V        |
| 3345.90                                                                                       | -31.77        | 12.78    | 11.57 | -30.56     | -13.00      | -17.56       | V        |
| LTE Band 26(Part 22) / 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 |
| 1696.26                                                                                       | -34.11        | 9.56     | 9.72  | -34.27     | -13.00      | -21.27       | H        |
| 2544.56                                                                                       | -34.36        | 10.50    | 10.86 | -34.72     | -13.00      | -21.72       | H        |
| 3392.91                                                                                       | -32.40        | 12.78    | 11.57 | -31.19     | -13.00      | -18.19       | H        |
| 1696.26                                                                                       | -35.13        | 9.56     | 9.72  | -35.29     | -13.00      | -22.29       | V        |
| 2544.56                                                                                       | -34.32        | 10.50    | 10.86 | -34.68     | -13.00      | -21.68       | V        |
| 3392.91                                                                                       | -33.01        | 12.78    | 11.57 | -31.80     | -13.00      | -18.80       | V        |



| LTE Band 26(Part 22) / 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 |
| 1651.20                                                                                     | -34.71        | 9.56     | 9.72  | -34.87        | -13.00         | -21.87          | H        |
| 2476.45                                                                                     | -34.27        | 10.50    | 10.86 | -34.63        | -13.00         | -21.63          | H        |
| 3301.95                                                                                     | -32.44        | 12.78    | 11.57 | -31.23        | -13.00         | -18.23          | H        |
| 1651.20                                                                                     | -35.42        | 9.56     | 9.72  | -35.58        | -13.00         | -22.58          | V        |
| 2476.45                                                                                     | -34.75        | 10.50    | 10.86 | -35.11        | -13.00         | -22.11          | V        |
| 3301.95                                                                                     | -32.10        | 12.78    | 11.57 | -30.89        | -13.00         | -17.89          | V        |
| LTE Band 26(Part 22) / 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 |
| 1673.26                                                                                     | -34.30        | 9.56     | 9.72  | -34.46        | -13.00         | -21.46          | H        |
| 2508.83                                                                                     | -34.04        | 10.50    | 10.86 | -34.40        | -13.00         | -21.40          | H        |
| 3346.00                                                                                     | -33.19        | 12.78    | 11.57 | -31.98        | -13.00         | -18.98          | H        |
| 1673.26                                                                                     | -35.59        | 9.56     | 9.72  | -35.75        | -13.00         | -22.75          | V        |
| 2508.83                                                                                     | -34.29        | 10.50    | 10.86 | -34.65        | -13.00         | -21.65          | V        |
| 3346.00                                                                                     | -32.29        | 12.78    | 11.57 | -31.08        | -13.00         | -18.08          | V        |
| LTE Band 26(Part 22) / 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 |
| 1695.42                                                                                     | -34.37        | 9.56     | 9.72  | -34.53        | -13.00         | -21.53          | H        |
| 2542.10                                                                                     | -35.01        | 10.50    | 10.86 | -35.37        | -13.00         | -22.37          | H        |
| 3389.96                                                                                     | -33.12        | 12.78    | 11.57 | -31.91        | -13.00         | -18.91          | H        |
| 1695.42                                                                                     | -35.08        | 9.56     | 9.72  | -35.24        | -13.00         | -22.24          | V        |
| 2542.10                                                                                     | -34.96        | 10.50    | 10.86 | -35.32        | -13.00         | -22.32          | V        |
| 3389.96                                                                                     | -31.92        | 12.78    | 11.57 | -30.71        | -13.00         | -17.71          | V        |



| LTE Band 26(Part 22) / 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 |
| 1652.84                                                                                     | -34.93        | 9.56     | 9.72  | -35.09        | -13.00         | -22.09          | H        |
| 2479.48                                                                                     | -35.43        | 10.50    | 10.86 | -35.79        | -13.00         | -22.79          | H        |
| 3306.83                                                                                     | -32.45        | 12.78    | 11.57 | -31.24        | -13.00         | -18.24          | H        |
| 1652.84                                                                                     | -35.20        | 9.56     | 9.72  | -35.36        | -13.00         | -22.36          | V        |
| 2479.48                                                                                     | -34.82        | 10.50    | 10.86 | -35.18        | -13.00         | -22.18          | V        |
| 3306.83                                                                                     | -32.82        | 12.78    | 11.57 | -31.61        | -13.00         | -18.61          | V        |
| LTE Band 26(Part 22) / 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 |
| 1672.92                                                                                     | -34.19        | 9.56     | 9.72  | -34.35        | -13.00         | -21.35          | H        |
| 2509.26                                                                                     | -34.06        | 10.50    | 10.86 | -34.42        | -13.00         | -21.42          | H        |
| 3345.80                                                                                     | -32.35        | 12.78    | 11.57 | -31.14        | -13.00         | -18.14          | H        |
| 1672.92                                                                                     | -34.95        | 9.56     | 9.72  | -35.11        | -13.00         | -22.11          | V        |
| 2509.26                                                                                     | -34.59        | 10.50    | 10.86 | -34.95        | -13.00         | -21.95          | V        |
| 3345.80                                                                                     | -31.90        | 12.78    | 11.57 | -30.69        | -13.00         | -17.69          | V        |
| LTE Band 26(Part 22) / 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 |
| 1693.34                                                                                     | -33.81        | 9.56     | 9.72  | -33.97        | -13.00         | -20.97          | H        |
| 2539.34                                                                                     | -34.84        | 10.50    | 10.86 | -35.20        | -13.00         | -22.20          | H        |
| 3385.95                                                                                     | -33.07        | 12.78    | 11.57 | -31.86        | -13.00         | -18.86          | H        |
| 1693.34                                                                                     | -34.92        | 9.56     | 9.72  | -35.08        | -13.00         | -22.08          | V        |
| 2539.34                                                                                     | -34.61        | 10.50    | 10.86 | -34.97        | -13.00         | -21.97          | V        |
| 3385.95                                                                                     | -32.07        | 12.78    | 11.57 | -30.86        | -13.00         | -17.86          | V        |



| LTE Band 26(Part 22) / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest  |                  |          |       |               |                |                 |          |
|----------------------------------------------------------------------------------------------|------------------|----------|-------|---------------|----------------|-----------------|----------|
| Frequency(MHz)                                                                               | S G.Lev<br>(dBm) | Ant(dBi) | Loss  | PMea<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 1657.91                                                                                      | -33.80           | 9.56     | 9.72  | -33.96        | -13.00         | -20.96          | H        |
| 2486.67                                                                                      | -35.27           | 10.50    | 10.86 | -35.63        | -13.00         | -22.63          | H        |
| 3315.65                                                                                      | -32.65           | 12.78    | 11.57 | -31.44        | -13.00         | -18.44          | H        |
| 1657.91                                                                                      | -34.97           | 9.56     | 9.72  | -35.13        | -13.00         | -22.13          | V        |
| 2486.67                                                                                      | -34.57           | 10.50    | 10.86 | -34.93        | -13.00         | -21.93          | V        |
| 3315.65                                                                                      | -32.43           | 12.78    | 11.57 | -31.22        | -13.00         | -18.22          | V        |
| LTE Band 26(Part 22) / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle  |                  |          |       |               |                |                 |          |
| Frequency(MHz)                                                                               | S G.Lev<br>(dBm) | Ant(dBi) | Loss  | PMea<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 1672.77                                                                                      | -34.73           | 9.56     | 9.72  | -34.89        | -13.00         | -21.89          | H        |
| 2508.94                                                                                      | -35.15           | 10.50    | 10.86 | -35.51        | -13.00         | -22.51          | H        |
| 3346.04                                                                                      | -32.65           | 12.78    | 11.57 | -31.44        | -13.00         | -18.44          | H        |
| 1672.77                                                                                      | -35.05           | 9.56     | 9.72  | -35.21        | -13.00         | -22.21          | V        |
| 2508.94                                                                                      | -34.79           | 10.50    | 10.86 | -35.15        | -13.00         | -22.15          | V        |
| 3346.04                                                                                      | -31.71           | 12.78    | 11.57 | -30.50        | -13.00         | -17.50          | V        |
| LTE Band 26(Part 22) / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest |                  |          |       |               |                |                 |          |
| Frequency(MHz)                                                                               | S G.Lev<br>(dBm) | Ant(dBi) | Loss  | PMea<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 1688.71                                                                                      | -34.89           | 9.56     | 9.72  | -35.05        | -13.00         | -22.05          | H        |
| 2532.11                                                                                      | -34.51           | 10.50    | 10.86 | -34.87        | -13.00         | -21.87          | H        |
| 3375.84                                                                                      | -33.31           | 12.78    | 11.57 | -32.10        | -13.00         | -19.10          | H        |
| 1688.71                                                                                      | -36.01           | 9.56     | 9.72  | -36.17        | -13.00         | -23.17          | V        |
| 2532.11                                                                                      | -35.00           | 10.50    | 10.86 | -35.36        | -13.00         | -22.36          | V        |
| 3375.84                                                                                      | -32.24           | 12.78    | 11.57 | -31.03        | -13.00         | -18.03          | V        |



| LTE Band 26(Part 22) / 15MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest  |                  |          |       |               |                |                 |          |
|----------------------------------------------------------------------------------------------|------------------|----------|-------|---------------|----------------|-----------------|----------|
| Frequency(MHz)                                                                               | S G.Lev<br>(dBm) | Ant(dBi) | Loss  | PMea<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 1663.15                                                                                      | -34.16           | 9.56     | 9.72  | -34.32        | -13.00         | -21.32          | H        |
| 2494.39                                                                                      | -34.89           | 10.50    | 10.86 | -35.25        | -13.00         | -22.25          | H        |
| 3325.91                                                                                      | -32.54           | 12.78    | 11.57 | -31.33        | -13.00         | -18.33          | H        |
| 1663.15                                                                                      | -35.54           | 9.56     | 9.72  | -35.70        | -13.00         | -22.70          | V        |
| 2494.39                                                                                      | -34.67           | 10.50    | 10.86 | -35.03        | -13.00         | -22.03          | V        |
| 3325.91                                                                                      | -33.06           | 12.78    | 11.57 | -31.85        | -13.00         | -18.85          | V        |
| LTE Band 26(Part 22) / 15MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle  |                  |          |       |               |                |                 |          |
| Frequency(MHz)                                                                               | S G.Lev<br>(dBm) | Ant(dBi) | Loss  | PMea<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 1672.77                                                                                      | -34.69           | 9.56     | 9.72  | -34.85        | -13.00         | -21.85          | H        |
| 2509.25                                                                                      | -35.08           | 10.50    | 10.86 | -35.44        | -13.00         | -22.44          | H        |
| 3346.18                                                                                      | -33.46           | 12.78    | 11.57 | -32.25        | -13.00         | -19.25          | H        |
| 1672.77                                                                                      | -35.45           | 9.56     | 9.72  | -35.61        | -13.00         | -22.61          | V        |
| 2509.25                                                                                      | -34.45           | 10.50    | 10.86 | -34.81        | -13.00         | -21.81          | V        |
| 3346.18                                                                                      | -32.57           | 12.78    | 11.57 | -31.36        | -13.00         | -18.36          | V        |
| LTE Band 26(Part 22) / 15MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest |                  |          |       |               |                |                 |          |
| Frequency(MHz)                                                                               | S G.Lev<br>(dBm) | Ant(dBi) | Loss  | PMea<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 1683.54                                                                                      | -33.72           | 9.56     | 9.72  | -33.88        | -13.00         | -20.88          | H        |
| 2524.48                                                                                      | -34.53           | 10.50    | 10.86 | -34.89        | -13.00         | -21.89          | H        |
| 3366.66                                                                                      | -32.75           | 12.78    | 11.57 | -31.54        | -13.00         | -18.54          | H        |
| 1683.54                                                                                      | -35.18           | 9.56     | 9.72  | -35.34        | -13.00         | -22.34          | V        |
| 2524.48                                                                                      | -34.52           | 10.50    | 10.86 | -34.88        | -13.00         | -21.88          | V        |
| 3366.66                                                                                      | -31.80           | 12.78    | 11.57 | -30.59        | -13.00         | -17.59          | V        |



| LTE Band 26(Part 90) / 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 |
| 1629.06                                                                                       | -34.85        | 9.56     | 9.72  | -35.01     | -13.00      | -22.01       | H        |
| 2444.17                                                                                       | -34.68        | 10.50    | 10.86 | -35.04     | -13.00      | -22.04       | H        |
| 3258.65                                                                                       | -32.59        | 12.78    | 11.57 | -31.38     | -13.00      | -18.38       | H        |
| 1629.06                                                                                       | -34.87        | 9.56     | 9.72  | -35.03     | -13.00      | -22.03       | V        |
| 2444.17                                                                                       | -35.08        | 10.50    | 10.86 | -35.44     | -13.00      | -22.44       | V        |
| 3258.65                                                                                       | -32.43        | 12.78    | 11.57 | -31.22     | -13.00      | -18.22       | V        |
| LTE Band 26(Part 90) / 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 |
| 1637.88                                                                                       | -34.48        | 9.56     | 9.72  | -34.64     | -13.00      | -21.64       | H        |
| 2457.28                                                                                       | -35.05        | 10.50    | 10.86 | -35.41     | -13.00      | -22.41       | H        |
| 3276.06                                                                                       | -32.90        | 12.78    | 11.57 | -31.69     | -13.00      | -18.69       | H        |
| 1637.88                                                                                       | -35.03        | 9.56     | 9.72  | -35.19     | -13.00      | -22.19       | V        |
| 2457.28                                                                                       | -34.70        | 10.50    | 10.86 | -35.06     | -13.00      | -22.06       | V        |
| 3276.06                                                                                       | -32.29        | 12.78    | 11.57 | -31.08     | -13.00      | -18.08       | V        |
| LTE Band 26(Part 90) / 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 |
| 1646.60                                                                                       | -34.87        | 9.56     | 9.72  | -35.03     | -13.00      | -22.03       | H        |
| 2456.95                                                                                       | -34.42        | 10.50    | 10.86 | -34.78     | -13.00      | -21.78       | H        |
| 3257.99                                                                                       | -32.78        | 12.78    | 11.57 | -31.57     | -13.00      | -18.57       | H        |
| 1646.60                                                                                       | -35.98        | 9.56     | 9.72  | -36.14     | -13.00      | -23.14       | V        |
| 2456.95                                                                                       | -34.09        | 10.50    | 10.86 | -34.45     | -13.00      | -21.45       | V        |
| 3257.99                                                                                       | -31.90        | 12.78    | 11.57 | -30.69     | -13.00      | -17.69       | V        |



| LTE Band 26(Part 90) / 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 |
| 1631.20                                                                                     | -33.63        | 9.56     | 9.72  | -33.79        | -13.00         | -20.79          | H        |
| 2446.21                                                                                     | -34.12        | 10.50    | 10.86 | -34.48        | -13.00         | -21.48          | H        |
| 3261.48                                                                                     | -33.27        | 12.78    | 11.57 | -32.06        | -13.00         | -19.06          | H        |
| 1631.20                                                                                     | -34.92        | 9.56     | 9.72  | -35.08        | -13.00         | -22.08          | V        |
| 2446.21                                                                                     | -34.84        | 10.50    | 10.86 | -35.20        | -13.00         | -22.20          | V        |
| 3261.48                                                                                     | -31.71        | 12.78    | 11.57 | -30.50        | -13.00         | -17.50          | V        |
| LTE Band 26(Part 90) / 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 |
| 1637.88                                                                                     | -33.81        | 9.56     | 9.72  | -33.97        | -13.00         | -20.97          | H        |
| 2457.19                                                                                     | -34.33        | 10.50    | 10.86 | -34.69        | -13.00         | -21.69          | H        |
| 3276.29                                                                                     | -33.28        | 12.78    | 11.57 | -32.07        | -13.00         | -19.07          | H        |
| 1637.88                                                                                     | -35.38        | 9.56     | 9.72  | -35.54        | -13.00         | -22.54          | V        |
| 2457.19                                                                                     | -34.50        | 10.50    | 10.86 | -34.86        | -13.00         | -21.86          | V        |
| 3276.29                                                                                     | -31.73        | 12.78    | 11.57 | -30.52        | -13.00         | -17.52          | V        |
| LTE Band 26(Part 90) / 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 |
| 1644.70                                                                                     | -34.17        | 9.56     | 9.72  | -34.33        | -13.00         | -21.33          | H        |
| 2467.17                                                                                     | -34.28        | 10.50    | 10.86 | -34.64        | -13.00         | -21.64          | H        |
| 3276.08                                                                                     | -32.24        | 12.78    | 11.57 | -31.03        | -13.00         | -18.03          | H        |
| 1644.70                                                                                     | -35.10        | 9.56     | 9.72  | -35.26        | -13.00         | -22.26          | V        |
| 2467.17                                                                                     | -33.87        | 10.50    | 10.86 | -34.23        | -13.00         | -21.23          | V        |
| 3276.08                                                                                     | -32.42        | 12.78    | 11.57 | -31.21        | -13.00         | -18.21          | V        |



| LTE Band 26(Part 90) / 5MHz / 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 |
| 1632.86                                                                                     | -34.79        | 9.56     | 9.72  | -34.95     | -13.00      | -21.95       | H        |
| 2449.37                                                                                     | -33.99        | 10.50    | 10.86 | -34.35     | -13.00      | -21.35       | H        |
| 3266.61                                                                                     | -32.84        | 12.78    | 11.57 | -31.63     | -13.00      | -18.63       | H        |
| 1632.86                                                                                     | -36.01        | 9.56     | 9.72  | -36.17     | -13.00      | -23.17       | V        |
| 2449.37                                                                                     | -34.28        | 10.50    | 10.86 | -34.64     | -13.00      | -21.64       | V        |
| 3266.61                                                                                     | -32.31        | 12.78    | 11.57 | -31.10     | -13.00      | -18.10       | V        |
| LTE Band 26(Part 90) / 5MHz / 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 |
| 1638.11                                                                                     | -34.24        | 9.56     | 9.72  | -34.40     | -13.00      | -21.40       | H        |
| 2457.06                                                                                     | -34.48        | 10.50    | 10.86 | -34.84     | -13.00      | -21.84       | H        |
| 3276.29                                                                                     | -33.49        | 12.78    | 11.57 | -32.28     | -13.00      | -19.28       | H        |
| 1638.11                                                                                     | -34.70        | 9.56     | 9.72  | -34.86     | -13.00      | -21.86       | V        |
| 2457.06                                                                                     | -34.00        | 10.50    | 10.86 | -34.36     | -13.00      | -21.36       | V        |
| 3276.29                                                                                     | -31.82        | 12.78    | 11.57 | -30.61     | -13.00      | -17.61       | V        |
| LTE Band 26(Part 90) / 5MHz / 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 |
| 1643.17                                                                                     | -33.72        | 9.56     | 9.72  | -33.88     | -13.00      | -20.88       | H        |
| 2464.10                                                                                     | -35.02        | 10.50    | 10.86 | -35.38     | -13.00      | -22.38       | H        |
| 3286.12                                                                                     | -33.08        | 12.78    | 11.57 | -31.87     | -13.00      | -18.87       | H        |
| 1643.17                                                                                     | -35.44        | 9.56     | 9.72  | -35.60     | -13.00      | -22.60       | V        |
| 2464.10                                                                                     | -34.94        | 10.50    | 10.86 | -35.30     | -13.00      | -22.30       | V        |
| 3286.12                                                                                     | -32.45        | 12.78    | 11.57 | -31.24     | -13.00      | -18.24       | V        |
| LTE Band 26(Part 90) / 10MHz / 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 |
| 1638.00                                                                                     | -33.77        | 9.56     | 9.72  | -33.93     | -13.00      | -20.93       | H        |
| 2457.14                                                                                     | -35.12        | 10.50    | 10.86 | -35.48     | -13.00      | -22.48       | H        |
| 3275.85                                                                                     | -32.36        | 12.78    | 11.57 | -31.15     | -13.00      | -18.15       | H        |
| 1638.00                                                                                     | -35.73        | 9.56     | 9.72  | -35.89     | -13.00      | -22.89       | V        |
| 2457.14                                                                                     | -34.70        | 10.50    | 10.86 | -35.06     | -13.00      | -22.06       | V        |
| 3275.85                                                                                     | -32.25        | 12.78    | 11.57 | -31.04     | -13.00      | -18.04       | V        |



| LTE Band 41 / 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 |
| 4996.89                                                                            | -33.60        | 12.66    | 15.86 | -36.80        | -25.00         | -11.80          | H        |
| 7495.71                                                                            | -35.28        | 11.46    | 19.28 | -43.10        | -25.00         | -18.10          | H        |
| 9994.12                                                                            | -33.53        | 12.79    | 23.19 | -43.93        | -25.00         | -18.93          | H        |
| 4997.17                                                                            | -35.02        | 12.66    | 15.86 | -38.22        | -25.00         | -13.22          | V        |
| 7495.85                                                                            | -34.96        | 11.46    | 19.28 | -42.78        | -25.00         | -17.78          | V        |
| 9994.13                                                                            | -32.04        | 12.79    | 23.19 | -42.44        | -25.00         | -17.44          | V        |
| LTE Band 41 / 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 |
| 5186.02                                                                            | -34.88        | 12.72    | 15.86 | -38.02        | -25.00         | -13.02          | H        |
| 7779.37                                                                            | -34.32        | 11.46    | 19.28 | -42.14        | -25.00         | -17.14          | H        |
| 10371.99                                                                           | -33.25        | 12.09    | 23.19 | -44.35        | -25.00         | -19.35          | H        |
| 5186.02                                                                            | -34.70        | 12.72    | 15.86 | -37.84        | -25.00         | -12.84          | V        |
| 7779.37                                                                            | -35.04        | 11.46    | 19.28 | -42.86        | -25.00         | -17.86          | V        |
| 10371.99                                                                           | -32.99        | 12.09    | 23.19 | -44.09        | -25.00         | -19.09          | V        |
| LTE Band 41 / 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 |
| 5374.77                                                                            | -34.38        | 12.76    | 15.86 | -37.48        | -25.00         | -12.48          | H        |
| 8062.45                                                                            | -35.13        | 11.45    | 19.28 | -42.96        | -25.00         | -17.96          | H        |
| 10749.99                                                                           | -32.63        | 12.28    | 23.19 | -43.54        | -25.00         | -18.54          | H        |
| 5374.77                                                                            | -35.44        | 12.76    | 15.86 | -38.54        | -25.00         | -13.54          | V        |
| 8062.45                                                                            | -33.85        | 11.45    | 19.28 | -41.68        | -25.00         | -16.68          | V        |
| 10749.99                                                                           | -32.12        | 12.28    | 23.19 | -43.03        | -25.00         | -18.03          | V        |



| LTE Band 41 / 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 |
| 5002.14                                                                             | -34.80        | 12.66    | 15.86 | -38.00        | -25.00         | -13.00          | H        |
| 7503.14                                                                             | -34.14        | 11.46    | 19.28 | -41.96        | -25.00         | -16.96          | H        |
| 10004.47                                                                            | -32.49        | 12.79    | 23.19 | -42.89        | -25.00         | -17.89          | H        |
| 5002.14                                                                             | -34.54        | 12.66    | 15.86 | -37.74        | -25.00         | -12.74          | V        |
| 7503.14                                                                             | -34.26        | 11.46    | 19.28 | -42.08        | -25.00         | -17.08          | V        |
| 10004.47                                                                            | -31.78        | 12.79    | 23.19 | -42.18        | -25.00         | -17.18          | V        |
| LTE Band 41 / 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 |
| 5186.63                                                                             | -34.24        | 12.72    | 15.86 | -37.38        | -25.00         | -12.38          | H        |
| 7779.63                                                                             | -34.08        | 11.46    | 19.28 | -41.90        | -25.00         | -16.90          | H        |
| 10371.30                                                                            | -32.76        | 12.09    | 23.19 | -43.86        | -25.00         | -18.86          | H        |
| 5186.63                                                                             | -35.54        | 12.72    | 15.86 | -38.68        | -25.00         | -13.68          | V        |
| 7779.63                                                                             | -35.10        | 11.46    | 19.28 | -42.92        | -25.00         | -17.92          | V        |
| 10371.30                                                                            | -32.93        | 12.09    | 23.19 | -44.03        | -25.00         | -19.03          | V        |
| LTE Band 41 / 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 |
| 5370.36                                                                             | -34.24        | 12.76    | 15.86 | -37.34        | -25.00         | -12.34          | H        |
| 8055.55                                                                             | -35.41        | 11.45    | 19.28 | -43.24        | -25.00         | -18.24          | H        |
| 10740.21                                                                            | -33.13        | 12.28    | 23.19 | -44.04        | -25.00         | -19.04          | H        |
| 5370.36                                                                             | -35.48        | 12.76    | 15.86 | -38.58        | -25.00         | -13.58          | V        |
| 8055.55                                                                             | -33.78        | 11.45    | 19.28 | -41.61        | -25.00         | -16.61          | V        |
| 10740.21                                                                            | -32.72        | 12.28    | 23.19 | -43.63        | -25.00         | -18.63          | V        |



| LTE Band 41 / 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 |
| 5007.01                                                                             | -34.61        | 12.66    | 15.86 | -37.81        | -25.00         | -12.81          | H        |
| 7510.31                                                                             | -34.53        | 11.46    | 19.28 | -42.35        | -25.00         | -17.35          | H        |
| 10014.68                                                                            | -33.32        | 12.79    | 23.19 | -43.72        | -25.00         | -18.72          | H        |
| 5007.01                                                                             | -35.67        | 12.66    | 15.86 | -38.87        | -25.00         | -13.87          | V        |
| 7510.31                                                                             | -34.02        | 11.46    | 19.28 | -41.84        | -25.00         | -16.84          | V        |
| 10014.68                                                                            | -31.79        | 12.79    | 23.19 | -42.19        | -25.00         | -17.19          | V        |
| LTE Band 41 / 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 |
| 5185.92                                                                             | -33.60        | 12.72    | 15.86 | -36.74        | -25.00         | -11.74          | H        |
| 7779.11                                                                             | -35.02        | 11.46    | 19.28 | -42.84        | -25.00         | -17.84          | H        |
| 10372.34                                                                            | -33.45        | 12.09    | 23.19 | -44.55        | -25.00         | -19.55          | H        |
| 5185.92                                                                             | -35.75        | 12.72    | 15.86 | -38.89        | -25.00         | -13.89          | V        |
| 7779.11                                                                             | -34.37        | 11.46    | 19.28 | -42.19        | -25.00         | -17.19          | V        |
| 10372.34                                                                            | -31.89        | 12.09    | 23.19 | -42.99        | -25.00         | -17.99          | V        |
| LTE Band 41 / 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 |
| 5365.75                                                                             | -33.70        | 12.76    | 15.86 | -36.80        | -25.00         | -11.80          | H        |
| 8047.07                                                                             | -35.27        | 11.45    | 19.28 | -43.10        | -25.00         | -18.10          | H        |
| 10730.19                                                                            | -33.28        | 12.28    | 23.19 | -44.19        | -25.00         | -19.19          | H        |
| 5365.75                                                                             | -35.24        | 12.76    | 15.86 | -38.34        | -25.00         | -13.34          | V        |
| 8047.07                                                                             | -34.34        | 11.45    | 19.28 | -42.17        | -25.00         | -17.17          | V        |
| 10730.19                                                                            | -32.34        | 12.28    | 23.19 | -43.25        | -25.00         | -18.25          | V        |



| LTE Band 41 / 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 |
| 5012.02                                                                             | -33.65        | 12.66    | 15.86 | -36.85        | -25.00         | -11.85          | H        |
| 7518.37                                                                             | -34.87        | 11.46    | 19.28 | -42.69        | -25.00         | -17.69          | H        |
| 10024.27                                                                            | -32.46        | 12.79    | 23.19 | -42.86        | -25.00         | -17.86          | H        |
| 5012.02                                                                             | -34.84        | 12.66    | 15.86 | -38.04        | -25.00         | -13.04          | V        |
| 7518.37                                                                             | -34.67        | 11.46    | 19.28 | -42.49        | -25.00         | -17.49          | V        |
| 10024.27                                                                            | -32.72        | 12.79    | 23.19 | -43.12        | -25.00         | -18.12          | V        |
| LTE Band 41 / 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 |
| 5185.88                                                                             | -34.82        | 12.72    | 15.86 | -37.96        | -25.00         | -12.96          | H        |
| 7779.20                                                                             | -35.40        | 11.46    | 19.28 | -43.22        | -25.00         | -18.22          | H        |
| 10371.94                                                                            | -32.86        | 12.09    | 23.19 | -43.96        | -25.00         | -18.96          | H        |
| 5185.88                                                                             | -35.08        | 12.72    | 15.86 | -38.22        | -25.00         | -13.22          | V        |
| 7779.20                                                                             | -34.59        | 11.46    | 19.28 | -42.41        | -25.00         | -17.41          | V        |
| 10371.94                                                                            | -32.33        | 12.09    | 23.19 | -43.43        | -25.00         | -18.43          | V        |
| LTE Band 41 / 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 |
| 5360.10                                                                             | -34.10        | 12.76    | 15.86 | -37.20        | -25.00         | -12.20          | H        |
| 8040.51                                                                             | -35.36        | 11.45    | 19.28 | -43.19        | -25.00         | -18.19          | H        |
| 10720.25                                                                            | -33.42        | 12.28    | 23.19 | -44.33        | -25.00         | -19.33          | H        |
| 5360.10                                                                             | -34.88        | 12.76    | 15.86 | -37.98        | -25.00         | -12.98          | V        |
| 8040.51                                                                             | -33.99        | 11.45    | 19.28 | -41.82        | -25.00         | -16.82          | V        |
| 10720.25                                                                            | -32.01        | 12.28    | 23.19 | -42.92        | -25.00         | -17.92          | 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 |
| 3421.27                                                                              | -34.16        | 12.90    | 12.56 | -33.82        | -13.00         | -20.82          | H        |
| 5132.06                                                                              | -35.46        | 13.10    | 16.32 | -38.68        | -13.00         | -25.68          | H        |
| 6842.40                                                                              | -32.50        | 12.33    | 21.13 | -41.30        | -13.00         | -28.30          | H        |
| 3421.27                                                                              | -35.03        | 12.90    | 12.56 | -34.69        | -13.00         | -21.69          | V        |
| 5132.06                                                                              | -35.14        | 13.10    | 16.32 | -38.36        | -13.00         | -25.36          | V        |
| 6842.40                                                                              | -32.84        | 12.33    | 21.13 | -41.64        | -13.00         | -28.64          | 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 |
| 3490.11                                                                              | -33.94        | 12.90    | 12.56 | -33.60        | -13.00         | -20.60          | H        |
| 5235.03                                                                              | -34.78        | 13.10    | 16.32 | -38.00        | -13.00         | -25.00          | H        |
| 6979.96                                                                              | -33.41        | 12.33    | 21.13 | -42.21        | -13.00         | -29.21          | H        |
| 3490.11                                                                              | -34.59        | 12.90    | 12.56 | -34.25        | -13.00         | -21.25          | V        |
| 5235.03                                                                              | -34.00        | 13.10    | 16.32 | -37.22        | -13.00         | -24.22          | V        |
| 6979.96                                                                              | -32.73        | 12.33    | 21.13 | -41.53        | -13.00         | -28.53          | 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 |
| 3558.19                                                                              | -34.25        | 12.90    | 12.56 | -33.91        | -13.00         | -20.91          | H        |
| 5336.93                                                                              | -35.14        | 13.10    | 16.32 | -38.36        | -13.00         | -25.36          | H        |
| 7116.73                                                                              | -32.33        | 12.33    | 21.13 | -41.13        | -13.00         | -28.13          | H        |
| 3558.19                                                                              | -34.58        | 12.90    | 12.56 | -34.24        | -13.00         | -21.24          | V        |
| 5336.93                                                                              | -33.81        | 13.10    | 16.32 | -37.03        | -13.00         | -24.03          | V        |
| 7116.73                                                                              | -31.74        | 12.33    | 21.13 | -40.54        | -13.00         | -27.54          | 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 |
| 3423.04                                                                            | -34.81        | 12.90    | 12.56 | -34.47        | -13.00         | -21.47          | H        |
| 5134.47                                                                            | -35.37        | 13.10    | 16.32 | -38.59        | -13.00         | -25.59          | H        |
| 6846.01                                                                            | -33.11        | 12.33    | 21.13 | -41.91        | -13.00         | -28.91          | H        |
| 3423.04                                                                            | -35.41        | 12.90    | 12.56 | -35.07        | -13.00         | -22.07          | V        |
| 5134.47                                                                            | -34.35        | 13.10    | 16.32 | -37.57        | -13.00         | -24.57          | V        |
| 6846.01                                                                            | -31.81        | 12.33    | 21.13 | -40.61        | -13.00         | -27.61          | 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 |
| 3490.12                                                                            | -34.14        | 12.90    | 12.56 | -33.80        | -13.00         | -20.80          | H        |
| 5235.11                                                                            | -35.47        | 13.10    | 16.32 | -38.69        | -13.00         | -25.69          | H        |
| 6980.01                                                                            | -32.54        | 12.33    | 21.13 | -41.34        | -13.00         | -28.34          | H        |
| 3490.12                                                                            | -36.01        | 12.90    | 12.56 | -35.67        | -13.00         | -22.67          | V        |
| 5235.11                                                                            | -33.89        | 13.10    | 16.32 | -37.11        | -13.00         | -24.11          | V        |
| 6980.01                                                                            | -33.17        | 12.33    | 21.13 | -41.97        | -13.00         | -28.97          | 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 |
| 3556.80                                                                            | -34.05        | 12.90    | 12.56 | -33.71        | -13.00         | -20.71          | H        |
| 5262.07                                                                            | -34.30        | 13.10    | 16.32 | -37.52        | -13.00         | -24.52          | H        |
| 7114.14                                                                            | -32.60        | 12.33    | 21.13 | -41.40        | -13.00         | -28.40          | H        |
| 3556.80                                                                            | -35.60        | 12.90    | 12.56 | -35.26        | -13.00         | -22.26          | V        |
| 5262.07                                                                            | -33.80        | 13.10    | 16.32 | -37.02        | -13.00         | -24.02          | V        |
| 7114.14                                                                            | -32.28        | 12.33    | 21.13 | -41.08        | -13.00         | -28.08          | 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 |
| 3425.00                                                                            | -34.08        | 12.90    | 12.56 | -33.74        | -13.00         | -20.74          | H        |
| 5137.08                                                                            | -34.36        | 13.10    | 16.32 | -37.58        | -13.00         | -24.58          | H        |
| 6850.37                                                                            | -33.59        | 12.33    | 21.13 | -42.39        | -13.00         | -29.39          | H        |
| 3425.00                                                                            | -35.38        | 12.90    | 12.56 | -35.04        | -13.00         | -22.04          | V        |
| 5137.08                                                                            | -34.53        | 13.10    | 16.32 | -37.75        | -13.00         | -24.75          | V        |
| 6850.37                                                                            | -32.19        | 12.33    | 21.13 | -40.99        | -13.00         | -27.99          | 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 |
| 3489.89                                                                            | -34.70        | 12.90    | 12.56 | -34.36        | -13.00         | -21.36          | H        |
| 5234.84                                                                            | -34.95        | 13.10    | 16.32 | -38.17        | -13.00         | -25.17          | H        |
| 6980.01                                                                            | -33.46        | 12.33    | 21.13 | -42.26        | -13.00         | -29.26          | H        |
| 3489.89                                                                            | -34.76        | 12.90    | 12.56 | -34.42        | -13.00         | -21.42          | V        |
| 5234.84                                                                            | -34.87        | 13.10    | 16.32 | -38.09        | -13.00         | -25.09          | V        |
| 6980.01                                                                            | -31.88        | 12.33    | 21.13 | -40.68        | -13.00         | -27.68          | 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 |
| 3558.06                                                                            | -34.52        | 12.90    | 12.56 | -34.18        | -13.00         | -21.18          | H        |
| 52354.02                                                                           | -35.40        | 13.10    | 16.32 | -38.62        | -13.00         | -25.62          | H        |
| 7110.18                                                                            | -33.09        | 12.33    | 21.13 | -41.89        | -13.00         | -28.89          | H        |
| 3558.06                                                                            | -34.68        | 12.90    | 12.56 | -34.34        | -13.00         | -21.34          | V        |
| 52354.02                                                                           | -34.05        | 13.10    | 16.32 | -37.27        | -13.00         | -24.27          | V        |
| 7110.18                                                                            | -32.08        | 12.33    | 21.13 | -40.88        | -13.00         | -27.88          | 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 |
| 3430.14                                                                             | -34.05        | 12.90    | 12.56 | -33.71        | -13.00         | -20.71          | H        |
| 5145.22                                                                             | -35.07        | 13.10    | 16.32 | -38.29        | -13.00         | -25.29          | H        |
| 6880.05                                                                             | -32.46        | 12.33    | 21.13 | -41.26        | -13.00         | -28.26          | H        |
| 3430.14                                                                             | -34.76        | 12.90    | 12.56 | -34.42        | -13.00         | -21.42          | V        |
| 5145.22                                                                             | -34.55        | 13.10    | 16.32 | -37.77        | -13.00         | -24.77          | V        |
| 6880.05                                                                             | -33.17        | 12.33    | 21.13 | -41.97        | -13.00         | -28.97          | 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 |
| 3489.91                                                                             | -34.84        | 12.90    | 12.56 | -34.50        | -13.00         | -21.50          | H        |
| 5234.97                                                                             | -35.48        | 13.10    | 16.32 | -38.70        | -13.00         | -25.70          | H        |
| 6979.95                                                                             | -33.17        | 12.33    | 21.13 | -41.97        | -13.00         | -28.97          | H        |
| 3489.91                                                                             | -35.05        | 12.90    | 12.56 | -34.71        | -13.00         | -21.71          | V        |
| 5234.97                                                                             | -34.69        | 13.10    | 16.32 | -37.91        | -13.00         | -24.91          | V        |
| 6979.95                                                                             | -32.68        | 12.33    | 21.13 | -41.48        | -13.00         | -28.48          | 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 |
| 3550.55                                                                             | -34.49        | 12.90    | 12.56 | -34.15        | -13.00         | -21.15          | H        |
| 5235.18                                                                             | -35.01        | 13.10    | 16.32 | -38.23        | -13.00         | -25.23          | H        |
| 7099.95                                                                             | -33.20        | 12.33    | 21.13 | -42.00        | -13.00         | -29.00          | H        |
| 3550.55                                                                             | -35.66        | 12.90    | 12.56 | -35.32        | -13.00         | -22.32          | V        |
| 5235.18                                                                             | -34.79        | 13.10    | 16.32 | -38.01        | -13.00         | -25.01          | V        |
| 7099.95                                                                             | -32.02        | 12.33    | 21.13 | -40.82        | -13.00         | -27.82          | 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 |
| 3435.18                                                                             | -34.17        | 12.90    | 12.56 | -33.83        | -13.00         | -20.83          | H        |
| 5152.36                                                                             | -34.75        | 13.10    | 16.32 | -37.97        | -13.00         | -24.97          | H        |
| 6870.01                                                                             | -33.49        | 12.33    | 21.13 | -42.29        | -13.00         | -29.29          | H        |
| 3435.18                                                                             | -35.99        | 12.90    | 12.56 | -35.65        | -13.00         | -22.65          | V        |
| 5152.36                                                                             | -34.07        | 13.10    | 16.32 | -37.29        | -13.00         | -24.29          | V        |
| 6870.01                                                                             | -31.92        | 12.33    | 21.13 | -40.72        | -13.00         | -27.72          | 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 |
| 3489.87                                                                             | -33.53        | 12.90    | 12.56 | -33.19        | -13.00         | -20.19          | H        |
| 5235.14                                                                             | -34.13        | 13.10    | 16.32 | -37.35        | -13.00         | -24.35          | H        |
| 6980.14                                                                             | -32.47        | 12.33    | 21.13 | -41.27        | -13.00         | -28.27          | H        |
| 3489.87                                                                             | -35.58        | 12.90    | 12.56 | -35.24        | -13.00         | -22.24          | V        |
| 5235.14                                                                             | -34.44        | 13.10    | 16.32 | -37.66        | -13.00         | -24.66          | V        |
| 6980.14                                                                             | -32.84        | 12.33    | 21.13 | -41.64        | -13.00         | -28.64          | 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 |
| 3545.13                                                                             | -33.55        | 12.90    | 12.56 | -33.21        | -13.00         | -20.21          | H        |
| 5332.27                                                                             | -34.43        | 13.10    | 16.32 | -37.65        | -13.00         | -24.65          | H        |
| 7089.78                                                                             | -32.70        | 12.33    | 21.13 | -41.50        | -13.00         | -28.50          | H        |
| 3545.13                                                                             | -35.39        | 12.90    | 12.56 | -35.05        | -13.00         | -22.05          | V        |
| 5332.27                                                                             | -34.38        | 13.10    | 16.32 | -37.60        | -13.00         | -24.60          | V        |
| 7089.78                                                                             | -31.83        | 12.33    | 21.13 | -40.63        | -13.00         | -27.63          | 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 |
| 3440.19                                                                             | -34.82        | 12.90    | 12.56 | -34.48     | -13.00      | -21.48       | H        |
| 5159.88                                                                             | -34.89        | 13.10    | 16.32 | -38.11     | -13.00      | -25.11       | H        |
| 6879.91                                                                             | -33.32        | 12.33    | 21.13 | -42.12     | -13.00      | -29.12       | H        |
| 3440.19                                                                             | -34.52        | 12.90    | 12.56 | -34.18     | -13.00      | -21.18       | V        |
| 5159.88                                                                             | -34.79        | 13.10    | 16.32 | -38.01     | -13.00      | -25.01       | V        |
| 6879.91                                                                             | -32.28        | 12.33    | 21.13 | -41.08     | -13.00      | -28.08       | 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 |
| 3490.22                                                                             | -34.91        | 12.90    | 12.56 | -34.57     | -13.00      | -21.57       | H        |
| 5235.14                                                                             | -35.16        | 13.10    | 16.32 | -38.38     | -13.00      | -25.38       | H        |
| 6979.81                                                                             | -32.96        | 12.33    | 21.13 | -41.76     | -13.00      | -28.76       | H        |
| 3490.22                                                                             | -34.91        | 12.90    | 12.56 | -34.57     | -13.00      | -21.57       | V        |
| 5235.14                                                                             | -35.17        | 13.10    | 16.32 | -38.39     | -13.00      | -25.39       | V        |
| 6979.81                                                                             | -33.20        | 12.33    | 21.13 | -42.00     | -13.00      | -29.00       | 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 |
| 3540.02                                                                             | -33.90        | 12.90    | 12.56 | -33.56     | -13.00      | -20.56       | H        |
| 5309.85                                                                             | -34.96        | 13.10    | 16.32 | -38.18     | -13.00      | -25.18       | H        |
| 7080.73                                                                             | -32.94        | 12.33    | 21.13 | -41.74     | -13.00      | -28.74       | H        |
| 3540.02                                                                             | -35.86        | 12.90    | 12.56 | -35.52     | -13.00      | -22.52       | V        |
| 5309.85                                                                             | -35.09        | 13.10    | 16.32 | -38.31     | -13.00      | -25.31       | V        |
| 7080.73                                                                             | -32.27        | 12.33    | 21.13 | -41.07     | -13.00      | -28.07       | V        |

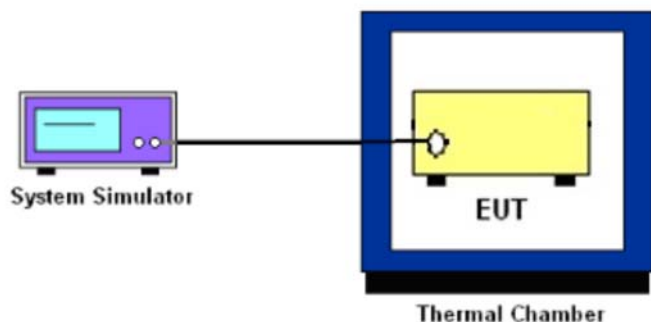
## 10. FREQUENCY STABILITY

### 10.1 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.

#### 10.1.2 TEST SETUP



#### 10.1.3 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.

#### 10.1.4 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.



## 10.1.5 TEST RESULTS

| LTE Band 2 (QPSK) / 1880MHz / BW10M |                 |            |            |        |        |
|-------------------------------------|-----------------|------------|------------|--------|--------|
| Temperature (°C)                    | Voltage         | Freq. Dev. | Freq. Dev. | Limit  | Result |
|                                     | (Volt)          | (Hz)       | (ppm)      |        |        |
| 50                                  | Normal Voltage  | 19.28      | 0.010      | 2.5ppm | PASS   |
| 40                                  |                 | 35.96      | 0.019      |        |        |
| 30                                  |                 | 31.04      | 0.017      |        |        |
| 20                                  |                 | 30.07      | 0.016      |        |        |
| 10                                  |                 | 30.83      | 0.016      |        |        |
| 0                                   |                 | 24.22      | 0.013      |        |        |
| -10                                 |                 | 27.52      | 0.015      |        |        |
| -20                                 |                 | 25.30      | 0.013      |        |        |
| -30                                 |                 | 23.92      | 0.013      |        |        |
| 25                                  | Maximum Voltage | 21.72      | 0.012      |        |        |
| 25                                  | BEP             | 18.84      | 0.010      |        |        |

| LTE Band 2 (QPSK) / 1880MHz / BW20M |                 |            |            |        |        |
|-------------------------------------|-----------------|------------|------------|--------|--------|
| Temperature (°C)                    | Voltage         | Freq. Dev. | Freq. Dev. | Limit  | Result |
|                                     | (Volt)          | (Hz)       | (ppm)      |        |        |
| 50                                  | Normal Voltage  | 13.88      | 0.007      | 2.5ppm | PASS   |
| 40                                  |                 | 33.89      | 0.018      |        |        |
| 30                                  |                 | 19.98      | 0.011      |        |        |
| 20                                  |                 | 13.07      | 0.007      |        |        |
| 10                                  |                 | 17.78      | 0.009      |        |        |
| 0                                   |                 | 21.88      | 0.012      |        |        |
| -10                                 |                 | 34.37      | 0.018      |        |        |
| -20                                 |                 | 25.24      | 0.013      |        |        |
| -30                                 |                 | 23.01      | 0.012      |        |        |
| 25                                  | Maximum Voltage | 16.09      | 0.009      |        |        |
| 25                                  | BEP             | 25.69      | 0.014      |        |        |



| LTE Band 4 (QPSK) / 1733MHz / BW10M |                 |            |            |        |        |
|-------------------------------------|-----------------|------------|------------|--------|--------|
| Temperature (°C)                    | Voltage         | Freq. Dev. | Freq. Dev. | Limit  | Result |
|                                     | (Volt)          | (Hz)       | (ppm)      |        |        |
| 50                                  | Normal Voltage  | 27.66      | 0.016      | 2.5ppm | PASS   |
| 40                                  |                 | 27.95      | 0.016      |        |        |
| 30                                  |                 | 33.85      | 0.020      |        |        |
| 20                                  |                 | 20.91      | 0.012      |        |        |
| 10                                  |                 | 16.99      | 0.010      |        |        |
| 0                                   |                 | 16.98      | 0.010      |        |        |
| -10                                 |                 | 32.31      | 0.019      |        |        |
| -20                                 |                 | 33.59      | 0.019      |        |        |
| -30                                 |                 | 12.13      | 0.007      |        |        |
| 25                                  | Maximum Voltage | 29.94      | 0.017      |        |        |
| 25                                  | BEP             | 24.84      | 0.014      |        |        |

| LTE Band 4 (QPSK) / 1733MHz / BW20M |                 |            |            |        |        |
|-------------------------------------|-----------------|------------|------------|--------|--------|
| Temperature (°C)                    | Voltage         | Freq. Dev. | Freq. Dev. | Limit  | Result |
|                                     | (Volt)          | (Hz)       | (ppm)      |        |        |
| 50                                  | Normal Voltage  | 33.42      | 0.019      | 2.5ppm | PASS   |
| 40                                  |                 | 13.56      | 0.008      |        |        |
| 30                                  |                 | 36.42      | 0.021      |        |        |
| 20                                  |                 | 36.12      | 0.021      |        |        |
| 10                                  |                 | 35.84      | 0.021      |        |        |
| 0                                   |                 | 22.81      | 0.013      |        |        |
| -10                                 |                 | 30.60      | 0.018      |        |        |
| -20                                 |                 | 33.32      | 0.019      |        |        |
| -30                                 |                 | 22.82      | 0.013      |        |        |
| 25                                  | Maximum Voltage | 32.56      | 0.019      |        |        |
| 25                                  | BEP             | 29.26      | 0.017      |        |        |



| LTE Band 5 (QPSK) / 836.5MHz / BW5M |                 |            |            |        |        |
|-------------------------------------|-----------------|------------|------------|--------|--------|
| Temperature (°C)                    | Voltage         | Freq. Dev. | Freq. Dev. | Limit  | Result |
|                                     | (Volt)          | (Hz)       | (ppm)      |        |        |
| 50                                  | Normal Voltage  | 32.13      | 0.045      | 2.5ppm | PASS   |
| 40                                  |                 | 13.83      | 0.019      |        |        |
| 30                                  |                 | 26.71      | 0.038      |        |        |
| 20                                  |                 | 29.59      | 0.042      |        |        |
| 10                                  |                 | 36.05      | 0.051      |        |        |
| 0                                   |                 | 26.92      | 0.038      |        |        |
| -10                                 |                 | 35.22      | 0.005      |        |        |
| -20                                 |                 | 29.74      | 0.042      |        |        |
| -30                                 |                 | 20.49      | 0.029      |        |        |
| 25                                  | Maximum Voltage | 26.34      | 0.037      |        |        |
| 25                                  | BEP             | 22.70      | 0.032      |        |        |

| LTE Band 5 (QPSK) / 836.5MHz / BW10M |                 |            |            |        |        |
|--------------------------------------|-----------------|------------|------------|--------|--------|
| Temperature (°C)                     | Voltage         | Freq. Dev. | Freq. Dev. | Limit  | Result |
|                                      | (Volt)          | (Hz)       | (ppm)      |        |        |
| 50                                   | Normal Voltage  | 33.21      | 0.047      | 2.5ppm | PASS   |
| 40                                   |                 | 17.07      | 0.024      |        |        |
| 30                                   |                 | 35.02      | 0.049      |        |        |
| 20                                   |                 | 21.37      | 0.030      |        |        |
| 10                                   |                 | 26.46      | 0.037      |        |        |
| 0                                    |                 | 17.81      | 0.025      |        |        |
| -10                                  |                 | 22.87      | 0.003      |        |        |
| -20                                  |                 | 26.16      | 0.037      |        |        |
| -30                                  |                 | 20.95      | 0.030      |        |        |
| 25                                   | Maximum Voltage | 13.12      | 0.018      |        |        |
| 25                                   | BEP             | 25.38      | 0.036      |        |        |



| LTE Band 12 (QPSK) / 707.5MHz / BW5M |                 |            |            |        |        |
|--------------------------------------|-----------------|------------|------------|--------|--------|
| Temperature (°C)                     | Voltage         | Freq. Dev. | Freq. Dev. | Limit  | Result |
|                                      | (Volt)          | (Hz)       | (ppm)      |        |        |
| 50                                   | Normal Voltage  | 14.58      | 0.021      | 2.5ppm | PASS   |
| 40                                   |                 | 28.88      | 0.041      |        |        |
| 30                                   |                 | 34.36      | 0.048      |        |        |
| 20                                   |                 | 26.43      | 0.037      |        |        |
| 10                                   |                 | 12.97      | 0.018      |        |        |
| 0                                    |                 | 35.03      | 0.049      |        |        |
| -10                                  |                 | 18.22      | 0.003      |        |        |
| -20                                  |                 | 30.66      | 0.043      |        |        |
| -30                                  |                 | 32.21      | 0.045      |        |        |
| 25                                   | Maximum Voltage | 25.76      | 0.036      |        |        |
| 25                                   | BEP             | 16.43      | 0.023      |        |        |

| LTE Band 12 (QPSK) / 707.5MHz / BW10M |                 |            |            |        |        |
|---------------------------------------|-----------------|------------|------------|--------|--------|
| Temperature (°C)                      | Voltage         | Freq. Dev. | Freq. Dev. | Limit  | Result |
|                                       | (Volt)          | (Hz)       | (ppm)      |        |        |
| 50                                    | Normal Voltage  | 27.34      | 0.039      | 2.5ppm | PASS   |
| 40                                    |                 | 32.76      | 0.046      |        |        |
| 30                                    |                 | 20.06      | 0.028      |        |        |
| 20                                    |                 | 26.68      | 0.038      |        |        |
| 10                                    |                 | 18.22      | 0.026      |        |        |
| 0                                     |                 | 34.46      | 0.049      |        |        |
| -10                                   |                 | 36.24      | 0.005      |        |        |
| -20                                   |                 | 21.32      | 0.030      |        |        |
| -30                                   |                 | 28.67      | 0.040      |        |        |
| 25                                    | Maximum Voltage | 22.44      | 0.032      |        |        |
| 25                                    | BEP             | 30.17      | 0.042      |        |        |



| LTE Band 13 (QPSK) / 782MHz / BW5M |                 |            |            |        |        |
|------------------------------------|-----------------|------------|------------|--------|--------|
| Temperature (°C)                   | Voltage         | Freq. Dev. | Freq. Dev. | Limit  | Result |
|                                    | (Volt)          | (Hz)       | (ppm)      |        |        |
| 50                                 | Normal Voltage  | 16.25      | 0.023      | 2.5ppm | PASS   |
| 40                                 |                 | 30.19      | 0.043      |        |        |
| 30                                 |                 | 11.82      | 0.017      |        |        |
| 20                                 |                 | 19.07      | 0.027      |        |        |
| 10                                 |                 | 32.98      | 0.046      |        |        |
| 0                                  |                 | 19.99      | 0.028      |        |        |
| -10                                |                 | 17.15      | 0.002      |        |        |
| -20                                |                 | 20.68      | 0.029      |        |        |
| -30                                |                 | 16.05      | 0.023      |        |        |
| 25                                 | Maximum Voltage | 33.12      | 0.047      |        |        |
| 25                                 | BEP             | 29.37      | 0.041      |        |        |

| LTE Band 13 (QPSK) / 782MHz / BW10M |                 |            |            |        |        |
|-------------------------------------|-----------------|------------|------------|--------|--------|
| Temperature (°C)                    | Voltage         | Freq. Dev. | Freq. Dev. | Limit  | Result |
|                                     | (Volt)          | (Hz)       | (ppm)      |        |        |
| 50                                  | Normal Voltage  | 29.43      | 0.041      | 2.5ppm | PASS   |
| 40                                  |                 | 29.71      | 0.042      |        |        |
| 30                                  |                 | 14.08      | 0.020      |        |        |
| 20                                  |                 | 23.18      | 0.033      |        |        |
| 10                                  |                 | 21.81      | 0.031      |        |        |
| 0                                   |                 | 35.58      | 0.050      |        |        |
| -10                                 |                 | 26.84      | 0.004      |        |        |
| -20                                 |                 | 28.57      | 0.040      |        |        |
| -30                                 |                 | 27.45      | 0.039      |        |        |
| 25                                  | Maximum Voltage | 30.63      | 0.043      |        |        |
| 25                                  | BEP             | 12.48      | 0.018      |        |        |



| LTE Band 25 (QPSK) / 1880MHz / BW10M |                 |            |            |        |        |
|--------------------------------------|-----------------|------------|------------|--------|--------|
| Temperature (°C)                     | Voltage         | Freq. Dev. | Freq. Dev. | Limit  | Result |
|                                      | (Volt)          | (Hz)       | (ppm)      |        |        |
| 50                                   | Normal Voltage  | 29.45      | 0.016      | 2.5ppm | PASS   |
| 40                                   |                 | 13.34      | 0.007      |        |        |
| 30                                   |                 | 12.45      | 0.007      |        |        |
| 20                                   |                 | 21.77      | 0.012      |        |        |
| 10                                   |                 | 14.08      | 0.007      |        |        |
| 0                                    |                 | 20.30      | 0.011      |        |        |
| -10                                  |                 | 33.04      | 0.018      |        |        |
| -20                                  |                 | 35.72      | 0.019      |        |        |
| -30                                  |                 | 26.32      | 0.014      |        |        |
| 25                                   | Maximum Voltage | 23.97      | 0.013      |        |        |
| 25                                   | BEP             | 20.04      | 0.011      |        |        |

| LTE Band 25 (QPSK) / 1880MHz / BW20M |                 |            |            |        |        |
|--------------------------------------|-----------------|------------|------------|--------|--------|
| Temperature (°C)                     | Voltage         | Freq. Dev. | Freq. Dev. | Limit  | Result |
|                                      | (Volt)          | (Hz)       | (ppm)      |        |        |
| 50                                   | Normal Voltage  | 24.54      | 0.013      | 2.5ppm | PASS   |
| 40                                   |                 | 29.54      | 0.016      |        |        |
| 30                                   |                 | 22.61      | 0.012      |        |        |
| 20                                   |                 | 14.06      | 0.007      |        |        |
| 10                                   |                 | 22.79      | 0.012      |        |        |
| 0                                    |                 | 30.60      | 0.016      |        |        |
| -10                                  |                 | 17.54      | 0.009      |        |        |
| -20                                  |                 | 36.21      | 0.019      |        |        |
| -30                                  |                 | 12.64      | 0.007      |        |        |
| 25                                   | Maximum Voltage | 17.85      | 0.009      |        |        |
| 25                                   | BEP             | 14.13      | 0.008      |        |        |



| LTE Band 26(Part 22) (QPSK) / 836.5MHz / BW10M |                 |            |            |        |        |
|------------------------------------------------|-----------------|------------|------------|--------|--------|
| Temperature (°C)                               | Voltage         | Freq. Dev. | Freq. Dev. | Limit  | Result |
|                                                | (Volt)          | (Hz)       | (ppm)      |        |        |
| 50                                             | Normal Voltage  | 24.23      | 0.014      | 2.5ppm | PASS   |
| 40                                             |                 | 27.02      | 0.016      |        |        |
| 30                                             |                 | 21.85      | 0.013      |        |        |
| 20                                             |                 | 25.84      | 0.015      |        |        |
| 10                                             |                 | 25.17      | 0.015      |        |        |
| 0                                              |                 | 18.79      | 0.011      |        |        |
| -10                                            |                 | 21.37      | 0.012      |        |        |
| -20                                            |                 | 11.97      | 0.007      |        |        |
| -30                                            |                 | 26.64      | 0.015      |        |        |
| 25                                             | Maximum Voltage | 28.94      | 0.017      |        |        |
| 25                                             | BEP             | 26.39      | 0.015      |        |        |

| LTE Band 26(Part 22) (QPSK) / 836.5MHz / BW20M |                 |            |            |        |        |
|------------------------------------------------|-----------------|------------|------------|--------|--------|
| Temperature (°C)                               | Voltage         | Freq. Dev. | Freq. Dev. | Limit  | Result |
|                                                | (Volt)          | (Hz)       | (ppm)      |        |        |
| 50                                             | Normal Voltage  | 36.20      | 0.021      | 2.5ppm | PASS   |
| 40                                             |                 | 36.49      | 0.021      |        |        |
| 30                                             |                 | 19.01      | 0.011      |        |        |
| 20                                             |                 | 18.59      | 0.011      |        |        |
| 10                                             |                 | 29.99      | 0.017      |        |        |
| 0                                              |                 | 32.27      | 0.019      |        |        |
| -10                                            |                 | 13.76      | 0.008      |        |        |
| -20                                            |                 | 18.59      | 0.011      |        |        |
| -30                                            |                 | 18.86      | 0.011      |        |        |
| 25                                             | Maximum Voltage | 24.91      | 0.014      |        |        |
| 25                                             | BEP             | 13.93      | 0.008      |        |        |



| LTE Band 26(Part 90) (QPSK) / 819MHz / BW5M |                 |            |            |        |        |
|---------------------------------------------|-----------------|------------|------------|--------|--------|
| Temperature (°C)                            | Voltage         | Freq. Dev. | Freq. Dev. | Limit  | Result |
|                                             | (Volt)          | (Hz)       | (ppm)      |        |        |
| 50                                          | Normal Voltage  | 31.93      | 0.018      | 2.5ppm | PASS   |
| 40                                          |                 | 36.05      | 0.021      |        |        |
| 30                                          |                 | 19.19      | 0.011      |        |        |
| 20                                          |                 | 13.94      | 0.008      |        |        |
| 10                                          |                 | 31.40      | 0.018      |        |        |
| 0                                           |                 | 30.05      | 0.017      |        |        |
| -10                                         |                 | 13.45      | 0.008      |        |        |
| -20                                         |                 | 11.62      | 0.007      |        |        |
| -30                                         |                 | 31.71      | 0.018      |        |        |
| 25                                          | Maximum Voltage | 28.70      | 0.017      |        |        |
| 25                                          | BEP             | 33.29      | 0.019      |        |        |

| LTE Band 26(Part 90) (QPSK) / 819MHz / BW10M |                 |            |            |        |        |
|----------------------------------------------|-----------------|------------|------------|--------|--------|
| Temperature (°C)                             | Voltage         | Freq. Dev. | Freq. Dev. | Limit  | Result |
|                                              | (Volt)          | (Hz)       | (ppm)      |        |        |
| 50                                           | Normal Voltage  | 14.20      | 0.008      | 2.5ppm | PASS   |
| 40                                           |                 | 12.16      | 0.007      |        |        |
| 30                                           |                 | 13.44      | 0.008      |        |        |
| 20                                           |                 | 23.10      | 0.013      |        |        |
| 10                                           |                 | 34.03      | 0.020      |        |        |
| 0                                            |                 | 29.96      | 0.017      |        |        |
| -10                                          |                 | 19.13      | 0.011      |        |        |
| -20                                          |                 | 16.68      | 0.010      |        |        |
| -30                                          |                 | 27.21      | 0.016      |        |        |
| 25                                           | Maximum Voltage | 14.32      | 0.008      |        |        |
| 25                                           | BEP             | 28.89      | 0.017      |        |        |



| LTE Band 41 (QPSK) / 2593MHz / BW10M |                 |            |            |        |        |
|--------------------------------------|-----------------|------------|------------|--------|--------|
| Temperature (°C)                     | Voltage         | Freq. Dev. | Freq. Dev. | Limit  | Result |
|                                      | (Volt)          | (Hz)       | (ppm)      |        |        |
| 50                                   | Normal Voltage  | 13.93      | 0.005      | 2.5ppm | PASS   |
| 40                                   |                 | 13.77      | 0.005      |        |        |
| 30                                   |                 | 29.65      | 0.012      |        |        |
| 20                                   |                 | 12.31      | 0.005      |        |        |
| 10                                   |                 | 22.86      | 0.009      |        |        |
| 0                                    |                 | 33.19      | 0.013      |        |        |
| -10                                  |                 | 30.78      | 0.012      |        |        |
| -20                                  |                 | 31.58      | 0.012      |        |        |
| -30                                  |                 | 23.25      | 0.009      |        |        |
| 25                                   | Maximum Voltage | 32.73      | 0.013      |        |        |
| 25                                   | BEP             | 32.68      | 0.013      |        |        |

| LTE Band 41 (QPSK) / 2593MHz / BW20M |                 |            |            |        |        |
|--------------------------------------|-----------------|------------|------------|--------|--------|
| Temperature (°C)                     | Voltage         | Freq. Dev. | Freq. Dev. | Limit  | Result |
|                                      | (Volt)          | (Hz)       | (ppm)      |        |        |
| 50                                   | Normal Voltage  | 19.70      | 0.008      | 2.5ppm | PASS   |
| 40                                   |                 | 34.11      | 0.013      |        |        |
| 30                                   |                 | 29.51      | 0.012      |        |        |
| 20                                   |                 | 22.92      | 0.009      |        |        |
| 10                                   |                 | 26.71      | 0.011      |        |        |
| 0                                    |                 | 21.42      | 0.008      |        |        |
| -10                                  |                 | 27.05      | 0.011      |        |        |
| -20                                  |                 | 20.72      | 0.008      |        |        |
| -30                                  |                 | 19.88      | 0.008      |        |        |
| 25                                   | Maximum Voltage | 13.54      | 0.005      |        |        |
| 25                                   | BEP             | 25.63      | 0.010      |        |        |



| LTE Band 66 (QPSK) / 1745MHz / BW10M |                 |            |            |        |        |
|--------------------------------------|-----------------|------------|------------|--------|--------|
| Temperature (°C)                     | Voltage         | Freq. Dev. | Freq. Dev. | Limit  | Result |
|                                      | (Volt)          | (Hz)       | (ppm)      |        |        |
| 50                                   | Normal Voltage  | 11.94      | 0.007      | 2.5ppm | PASS   |
| 40                                   |                 | 18.73      | 0.011      |        |        |
| 30                                   |                 | 26.66      | 0.015      |        |        |
| 20                                   |                 | 21.20      | 0.012      |        |        |
| 10                                   |                 | 29.38      | 0.017      |        |        |
| 0                                    |                 | 14.71      | 0.008      |        |        |
| -10                                  |                 | 14.67      | 0.008      |        |        |
| -20                                  |                 | 27.24      | 0.016      |        |        |
| -30                                  |                 | 12.65      | 0.007      |        |        |
| 25                                   | Maximum Voltage | 33.57      | 0.019      |        |        |
| 25                                   | BEP             | 20.14      | 0.012      |        |        |

| LTE Band 66 (QPSK) / 1745MHz / BW20M |                 |            |            |        |        |
|--------------------------------------|-----------------|------------|------------|--------|--------|
| Temperature (°C)                     | Voltage         | Freq. Dev. | Freq. Dev. | Limit  | Result |
|                                      | (Volt)          | (Hz)       | (ppm)      |        |        |
| 50                                   | Normal Voltage  | 20.77      | 0.012      | 2.5ppm | PASS   |
| 40                                   |                 | 28.72      | 0.017      |        |        |
| 30                                   |                 | 34.18      | 0.020      |        |        |
| 20                                   |                 | 29.35      | 0.017      |        |        |
| 10                                   |                 | 31.11      | 0.018      |        |        |
| 0                                    |                 | 35.27      | 0.020      |        |        |
| -10                                  |                 | 24.82      | 0.014      |        |        |
| -20                                  |                 | 21.33      | 0.012      |        |        |
| -30                                  |                 | 35.84      | 0.021      |        |        |
| 25                                   | Maximum Voltage | 20.91      | 0.012      |        |        |
| 25                                   | BEP             | 15.31      | 0.009      |        |        |



## 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※※※※※

