



# LTE TEST REPORT

## No.24T04Z102259-012

for

**TCL Communication Ltd.**

**GSM/UMTS/LTE/NR Mobile phone**

**Model Name: T702Z**

**FCC ID: 2ACCJH184**

with

**Hardware Version: 03**

**Software Version: 9L3N**

**Issued Date: 2024-11-28**

**Note:**

The test results in this test report relate only to the devices specified in this report. This report shall not be reproduced except in full without the written approval of CTTL.

**Test Laboratory:**

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## **REPORT HISTORY**

| Report Number    | Revision | Description                              | Issue Date |
|------------------|----------|------------------------------------------|------------|
| 24T04Z102259-012 | Rev.0    | 1 <sup>st</sup> edition                  | 2024-11-25 |
| 24T04Z102259-012 | Rev.1    | Updated the results of band 7 on page 57 | 2024-11-28 |

Note: the latest revision of the test report supersedes all previous version.

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## 1. Test Laboratory

### 1.1. Introduction & Accreditation

**Telecommunication Technology Labs, CAICT** is an ISO/IEC 17025:2017 accredited test laboratory under American Association for Laboratory Accreditation (A2LA) with lab code 7049.01, and is also an FCC accredited test laboratory (CN1349), and ISED accredited test laboratory (CAB identifier:CN0066). The detail accreditation scope can be found on A2LA website.

### 1.2. Testing Location

Location 1: CTTL (huayuan North Road)

Address: No. 52, Huayuan North Road, Haidian District, Beijing,  
P. R. China 100191

Location 2: CTTL (BDA)

Address: No.18A, Kangding Street, Beijing Economic-Technology  
Development Area, Beijing, P. R. China 100176

### 1.3. Testing Environment

Normal Temperature: 15-35℃

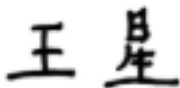
Relative Humidity: 20-75%

### 1.4. Project Data

Testing Start Date: 2024-09-29

Testing End Date: 2024-11-21

### 1.5. Signature



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Wang Xing  
(Prepared this test report)



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Zhou Yu  
(Reviewed this test report)



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Zhao Hui Lin  
(Approved this test report)

## **2. Client Information**

### **2.1. Applicant Information**

Company Name: TCL Communication Ltd.  
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### **2.2. Manufacturer Information**

Company Name: TCL Communication Ltd.  
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Contact: Ting Wang  
Email: ting.wang.hz@tcl.com  
Telephone: +86 752 2639091  
Fax: 0086-755-36612000-81722

### **3. Equipment Under Test (EUT) and Ancillary Equipment (AE)**

#### **3.1. About EUT**

|                     |                                             |
|---------------------|---------------------------------------------|
| Description         | GSM/UMTS/LTE/NR Mobile phone                |
| Model Name          | T702Z                                       |
| FCC ID              | 2ACCJH184                                   |
| Antenna             | Embedded                                    |
| Output power        | 24.57 dBm maximum EIRP measured for LTE B41 |
| Extreme Voltage     | 3.6VDC to 4.4VDC (nominal: 3.85VDC)         |
| Extreme Temperature | -10°C to +55°C                              |

Note: Components list, please refer to documents of the manufacturer; it is also included in the original test record of CTTL.

#### **3.2. Internal Identification of EUT used during the test**

| EUT ID* | IMEI             | HW Version | SW Version | Date of receipt |
|---------|------------------|------------|------------|-----------------|
| UT21a   | 016605000205334/ | 03         | 9L3N       | 2024-09-29      |
|         | 016605000205342  |            |            |                 |
| UT56a   | 016605000206134/ | 03         | 9L3N       | 2024-10-18      |
|         | 016605000206142/ |            |            |                 |

UT56a was used for emission limit test and UT21a was used for other testing cases.

\*EUT ID: is used to identify the test sample in the lab internally.

#### **3.3. Internal Identification of AE used during the test**

| AE ID* | Description |
|--------|-------------|
|--------|-------------|

|     |         |
|-----|---------|
| AE1 | Battery |
| AE2 | Battery |

##### **AE1**

|              |                        |
|--------------|------------------------|
| Model        | TLp049C9(CAC4900033C9) |
| Manufacturer | FENGHUA                |
| Capacitance  | 5010mAh                |

##### **AE2**

|              |                        |
|--------------|------------------------|
| Model        | TLp049D7(CAC4900007C7) |
| Manufacturer | VEKEN                  |
| Capacitance  | 5010mAh                |

\*AE ID: is used to identify the test sample in the lab internally.

## **4. Reference Documents**

### **4.1. Documents supplied by applicant**

EUT parameters are supplied by the customer, which are the bases of testing. CAICT is not responsible for the accuracy of customer supplied technical information that may affect the test results (for example, antenna gain and loss of customer supplied cable).

### **4.2. Reference Documents for testing**

The following documents listed in this section are referred for testing.

| <b>Reference</b> | <b>Title</b>                                                                                      | <b>Version</b>     |
|------------------|---------------------------------------------------------------------------------------------------|--------------------|
| FCC Part 24      | PERSONAL COMMUNICATIONS SERVICES                                                                  | 10-1-23<br>Edition |
| FCC Part 22      | PUBLIC MOBILE SERVICES                                                                            | 10-1-23<br>Edition |
| FCC Part 27      | MISCELLANEOUS WIRELESS COMMUNICATIONS SERVICES                                                    | 10-1-23<br>Edition |
| FCC Part 90      | PRIVATE LAND MOBILE RADIO SERVICES                                                                | 10-1-23<br>Edition |
| ANSI/TIA-603-E   | Land Mobile FM or PM Communications Equipment Measurement and Performance Standards               | 2016               |
| ANSI C63.26      | American National Standard for Compliance Testing of Transmitters Used in Licensed Radio Services | 2015               |
| KDB 971168 D01   | MEASUREMENT GUIDANCE FOR CERTIFICATION OF LICENSED DIGITAL TRANSMITTERS                           | v03r01             |

## 5. Summary of Test Result

### LTE Band 7

| Items | Test Name                   | Clause in FCC rules | Verdict |
|-------|-----------------------------|---------------------|---------|
| 1     | Output Power                | 27.50               | P       |
| 2     | Emission Limit              | 2.1051/27.53        | P       |
| 3     | Frequency Stability         | 2.1055              | P       |
| 4     | Occupied Bandwidth          | 2.1049              | P       |
| 5     | Emission Bandwidth          | 27.53               | P       |
| 6     | Band Edge Compliance        | 27.53               | P       |
| 7     | Conducted Spurious Emission | 27.53               | P       |
| 8     | Peak-to-Average Power Ratio | 27.50               | P       |

### LTE Band 12 (17)

| Items | Test Name                   | Clause in FCC rules | Verdict |
|-------|-----------------------------|---------------------|---------|
| 1     | Output Power                | 27.50               | P       |
| 2     | Emission Limit              | 2.1051/27.53        | P       |
| 3     | Frequency Stability         | 2.1055              | P       |
| 4     | Occupied Bandwidth          | 2.1049              | P       |
| 5     | Emission Bandwidth          | 27.53               | P       |
| 6     | Band Edge Compliance        | 27.53               | P       |
| 7     | Conducted Spurious Emission | 27.53               | P       |
| 8     | Peak-to-Average Power Ratio | 27.50               | P       |

### LTE Band 13

| Items | Test Name                   | Clause in FCC rules | Verdict |
|-------|-----------------------------|---------------------|---------|
| 1     | Output Power                | 27.50               | P       |
| 2     | Emission Limit              | 2.1051/27.53        | P       |
| 3     | Frequency Stability         | 2.1055              | P       |
| 4     | Occupied Bandwidth          | 2.1049              | P       |
| 5     | Emission Bandwidth          | 27.53               | P       |
| 6     | Band Edge Compliance        | 27.53               | P       |
| 7     | Conducted Spurious Emission | 27.53               | P       |
| 8     | Peak-to-Average Power Ratio | 27.50               | P       |



**LTE Band 14**

| Items | Test Name                   | Clause in FCC rules | Verdict |
|-------|-----------------------------|---------------------|---------|
| 1     | Output Power                | 90.542              | P       |
| 2     | Emission Limit              | 2.1051/90.543       | P       |
| 3     | Frequency Stability         | 2.1055              | P       |
| 4     | Occupied Bandwidth          | 2.1049              | P       |
| 5     | Emission Bandwidth          | 2.1049              | P       |
| 6     | Band Edge Compliance        | 90.543              | P       |
| 7     | Conducted Spurious Emission | 90.543              | P       |

**LTE Band 25 (2)**

| Items | Test Name                   | Clause in FCC rules | Verdict |
|-------|-----------------------------|---------------------|---------|
| 1     | Output Power                | 24.232              | P       |
| 2     | Emission Limit              | 2.1051/24.238       | P       |
| 3     | Frequency Stability         | 2.1055              | P       |
| 4     | Occupied Bandwidth          | 2.1049              | P       |
| 5     | Emission Bandwidth          | 24.238              | P       |
| 6     | Band Edge Compliance        | 24.238              | P       |
| 7     | Conducted Spurious Emission | 24.238              | P       |
| 8     | Peak-to-Average Power Ratio | 24.232              | P       |

**LTE Band 26(814MHz~824MHz)**

| Items | Test Name                   | Clause in FCC rules | Verdict |
|-------|-----------------------------|---------------------|---------|
| 1     | Output Power                | 90.635              | P       |
| 2     | Emission Limit              | 2.1051/90.691       | P       |
| 3     | Frequency Stability         | 2.1055              | P       |
| 4     | Occupied Bandwidth          | 2.1049              | P       |
| 5     | Emission Bandwidth          | 2.1049              | P       |
| 6     | Band Edge Compliance        | 90.691              | P       |
| 7     | Conducted Spurious Emission | 90.691              | P       |

**LTE Band 26(824MHz~849MHz) (5)**

| Items | Test Name                   | Clause in FCC rules | Verdict |
|-------|-----------------------------|---------------------|---------|
| 1     | Output Power                | 22.913              | P       |
| 2     | Emission Limit              | 2.1051/22.917       | P       |
| 3     | Frequency Stability         | 2.1055              | P       |
| 4     | Occupied Bandwidth          | 2.1049              | P       |
| 5     | Emission Bandwidth          | 22.917              | P       |
| 6     | Band Edge Compliance        | 22.917              | P       |
| 7     | Conducted Spurious Emission | 22.917              | P       |

**LTE Band 30**

| Items | Test Name                   | Clause in FCC rules | Verdict |
|-------|-----------------------------|---------------------|---------|
| 1     | Output Power                | 27.50               | P       |
| 2     | Emission Limit              | 2.1051/27.53        | P       |
| 3     | Frequency Stability         | 2.1055              | P       |
| 4     | Occupied Bandwidth          | 2.1049              | P       |
| 5     | Emission Bandwidth          | 27.53               | P       |
| 6     | Band Edge Compliance        | 27.53               | P       |
| 7     | Conducted Spurious Emission | 27.53               | P       |
| 8     | Peak-to-Average Power Ratio | 27.50               | P       |

**LTE Band 41 (38)**

| Items | Test Name                   | Clause in FCC rules | Verdict |
|-------|-----------------------------|---------------------|---------|
| 1     | Output Power                | 27.50               | P       |
| 2     | Emission Limit              | 2.1051/27.53        | P       |
| 3     | Frequency Stability         | 2.1055              | P       |
| 4     | Occupied Bandwidth          | 2.1049              | P       |
| 5     | Emission Bandwidth          | 27.53               | P       |
| 6     | Band Edge Compliance        | 27.53               | P       |
| 7     | Conducted Spurious Emission | 27.53               | P       |
| 8     | Peak-to-Average Power Ratio | 27.50               | P       |

#### LTE Band 66 (4)

| Items | Test Name                   | Clause in FCC rules | Verdict |
|-------|-----------------------------|---------------------|---------|
| 1     | Output Power                | 27.50               | P       |
| 2     | Emission Limit              | 2.1051/27.53        | P       |
| 3     | Frequency Stability         | 2.1055              | P       |
| 4     | Occupied Bandwidth          | 2.1049              | P       |
| 5     | Emission Bandwidth          | 27.53               | P       |
| 6     | Band Edge Compliance        | 27.53               | P       |
| 7     | Conducted Spurious Emission | 27.53               | P       |
| 8     | Peak-to-Average Power Ratio | 27.50               | P       |

#### LTE Band 71

| Items | Test Name                   | Clause in FCC rules | Verdict |
|-------|-----------------------------|---------------------|---------|
| 1     | Output Power                | 27.50               | P       |
| 2     | Emission Limit              | 2.1051/27.53        | P       |
| 3     | Frequency Stability         | 2.1055              | P       |
| 4     | Occupied Bandwidth          | 2.1049              | P       |
| 5     | Emission Bandwidth          | 27.53               | P       |
| 6     | Band Edge Compliance        | 27.53               | P       |
| 7     | Conducted Spurious Emission | 27.53               | P       |
| 8     | Peak-to-Average Power Ratio | 27.50               | P       |

#### Terms used in Verdict column

|    |                                                                                |
|----|--------------------------------------------------------------------------------|
| P  | Pass. The EUT complies with the essential requirements in the standard.        |
| NP | Not Performed. The test was not performed by CTTL.                             |
| NA | Not Applicable. The test was not applicable.                                   |
| BR | Re-use test data from basic model report.                                      |
| F  | Fail. The EUT does not comply with the essential requirements in the standard. |

All the test results are based on normal power.

Measurement uncertainty is not taken into account when stating conformity with a specified requirement.

LTE Band 25, Band 66, Band 26, Band 12 and Band 41 overlaps the entire frequency range of LTE Band 2, Band 4, Band 5, Band 17 and Band 38. Therefore, test data provided in this report covers Band 2, Band 4, Band 5, Band 17, Band 38 as well as Band 25, Band 66, Band 26, Band 12, Band 41.

LTE Band 41 is tested by power class 2.

#### Explanation of worst-case configuration

The worst-case scenario for all measurements is based on the conducted output power measurement investigation results. Output power was measured on QPSK, 16QAM, 64QAM and 256QAM modulations. It was found that QPSK was the worst case. All testing was performed using QPSK modulations to represent the worst case unless otherwise stated. The test results shown in the following sections represent the worst case emission.

## 6. Test Equipment Utilized

| Description                          | Type       | Series Number  | Manufacture  | Cal Due Date | Calibration Interval |
|--------------------------------------|------------|----------------|--------------|--------------|----------------------|
| Wideband Radio Communication Tester  | CMW500     | 159082         | R&S          | 2024-12-28   | 1 year               |
| Spectrum Analyzer                    | FSU        | 200030         | R&S          | 2025-05-08   | 1 year               |
| Climate chamber                      | SH-241     | 92004642       | ESPEC        | 2025-10-29   | 1 year               |
| Test Receiver                        | FSV30      | 101576         | R&S          | 2025-05-08   | 1 Year               |
| Test Receiver                        | FSV30      | 101525         | R&S          | 2025-01-18   | 1 year               |
| EMI Antenna                          | VULB 9163  | 9163-482       | Schwarzbeck  | 2025-05-19   | 1 year               |
| EMI Antenna                          | 9117       | 167            | Schwarzbeck  | 2025-10-15   | 1 year               |
| EMI Antenna                          | LB-7180-NF | J2030013000005 | A-INFO       | 2025-05-16   | 1 year               |
| EMI Antenna                          | 3115       | 00146404       | ETS-Lindgren | 2025-05-16   | 1 year               |
| Universal Radio Communication Tester | CMW500     | 143008         | R&S          | 2025-01-18   | 1 year               |
| Signal Generator                     | SMF100A    | 101295         | R&S          | 2025-02-04   | 1 year               |

Note: Only the latest Cal Due Dates of equipments are listed above and all equipments are in valid calibration period when used.

## **Annex A: Measurement Results**

### **A.1 Output Power**

#### **A.1.1 Summary**

During the process of testing, the EUT was controlled via communication tester to ensure max power transmission and proper modulation.

In all cases, output power is within the specified limits.

#### **A.1.2 Conducted**

##### **A.1.2.1 Method of Measurements**

The EUT was set up for the max output power with pseudo random data modulation.

These measurements were done at 3 frequencies (bottom, middle and top of operational frequency range) for each bandwidth.

The results below include a correction factor for cable loss that is provided by the customer.

##### **A.1.2.2 Measurement Result**

#### **LTE band 7**

| Bandwidth | RB size/offset | Frequency (MHz) | Power (dBm) |       |       |        |
|-----------|----------------|-----------------|-------------|-------|-------|--------|
|           |                |                 | QPSK        | 16QAM | 64QAM | 256QAM |
| 5MHz      | 1 RB high      | 2567.5          | 21.95       | 20.95 | 20.08 | 16.95  |
|           |                | 2535.0          | 22.21       | 21.21 | 20.37 | 17.20  |
|           |                | 2502.5          | 21.82       | 20.73 | 19.98 | 16.82  |
|           | 1 RB low       | 2567.5          | 21.95       | 20.98 | 20.14 | 16.96  |
|           |                | 2535.0          | 22.19       | 21.19 | 20.41 | 17.21  |
|           |                | 2502.5          | 21.68       | 20.54 | 20.01 | 16.63  |
|           | 50% RB mid     | 2567.5          | 20.97       | 20.00 | 19.10 | 17.03  |
|           |                | 2535.0          | 21.17       | 20.21 | 19.30 | 17.23  |
|           |                | 2502.5          | 20.77       | 19.82 | 18.83 | 16.83  |
|           | 100% RB        | 2567.5          | 21.00       | 19.95 | 19.02 | 16.99  |
|           |                | 2535.0          | 21.19       | 20.13 | 19.22 | 17.18  |
|           |                | 2502.5          | 20.80       | 19.73 | 18.80 | 16.81  |
| 10MHz     | 1 RB high      | 2565.0          | 21.94       | 21.01 | 19.84 | 17.07  |
|           |                | 2535.0          | 22.27       | 21.24 | 20.11 | 17.32  |
|           |                | 2505.0          | 21.91       | 20.88 | 19.83 | 17.00  |
|           | 1 RB low       | 2565.0          | 21.95       | 20.96 | 19.74 | 17.06  |
|           |                | 2535.0          | 22.22       | 21.18 | 20.00 | 17.25  |
|           |                | 2505.0          | 21.64       | 20.61 | 19.69 | 16.70  |
|           | 50% RB mid     | 2565.0          | 21.04       | 20.09 | 19.11 | 17.07  |
|           |                | 2535.0          | 21.30       | 20.32 | 19.32 | 17.29  |
|           |                | 2505.0          | 20.90       | 19.91 | 18.99 | 16.92  |
|           | 100% RB        | 2565.0          | 21.03       | 20.07 | 19.03 | 17.02  |

|       |            |        |       |       |       |       |
|-------|------------|--------|-------|-------|-------|-------|
|       |            | 2535.0 | 21.26 | 20.28 | 19.22 | 17.22 |
|       |            | 2505.0 | 20.87 | 19.89 | 18.86 | 16.86 |
| 15MHz | 1 RB high  | 2562.5 | 21.95 | 21.34 | 20.39 | 17.29 |
|       |            | 2535.0 | 22.28 | 21.64 | 20.65 | 17.54 |
|       |            | 2507.5 | 21.98 | 21.40 | 20.34 | 17.30 |
|       | 1 RB low   | 2562.5 | 22.07 | 21.48 | 20.38 | 17.39 |
|       |            | 2535.0 | 22.16 | 21.52 | 20.64 | 17.47 |
|       |            | 2507.5 | 21.72 | 21.14 | 20.31 | 17.01 |
|       | 50% RB mid | 2562.5 | 21.04 | 20.02 | 19.02 | 17.04 |
|       |            | 2535.0 | 21.27 | 20.24 | 19.24 | 17.24 |
|       |            | 2507.5 | 20.97 | 19.94 | 19.00 | 16.97 |
|       | 100% RB    | 2562.5 | 21.04 | 20.05 | 19.05 | 17.07 |
|       |            | 2535.0 | 21.25 | 20.30 | 19.27 | 17.28 |
|       |            | 2507.5 | 20.93 | 19.95 | 18.97 | 16.95 |
| 20MHz | 1 RB high  | 2560.0 | 22.01 | 21.58 | 19.96 | 16.99 |
|       |            | 2535.0 | 22.31 | 21.97 | 20.24 | 17.28 |
|       |            | 2510.0 | 21.99 | 21.63 | 19.87 | 16.98 |
|       | 1 RB low   | 2560.0 | 22.09 | 21.69 | 20.22 | 17.08 |
|       |            | 2535.0 | 22.11 | 21.78 | 20.53 | 17.07 |
|       |            | 2510.0 | 21.65 | 21.27 | 20.21 | 16.58 |
|       | 50% RB mid | 2560.0 | 21.12 | 20.11 | 19.12 | 17.12 |
|       |            | 2535.0 | 21.33 | 20.28 | 19.35 | 17.32 |
|       |            | 2510.0 | 21.06 | 19.99 | 19.09 | 17.02 |
|       | 100% RB    | 2560.0 | 21.13 | 20.11 | 19.11 | 17.11 |
|       |            | 2535.0 | 21.30 | 20.30 | 19.30 | 17.29 |
|       |            | 2510.0 | 21.03 | 20.01 | 19.03 | 17.02 |

**LTE band 12**

| Bandwidth | RB size/offset | Frequency (MHz) | Power (dBm) |       |       |        |
|-----------|----------------|-----------------|-------------|-------|-------|--------|
|           |                |                 | QPSK        | 16QAM | 64QAM | 256QAM |
| 1.4MHz    | 1 RB high      | 715.3           | 23.44       | 22.48 | 21.30 | 18.41  |
|           |                | 707.5           | 23.41       | 22.50 | 21.30 | 18.38  |
|           |                | 699.7           | 23.32       | 22.41 | 21.29 | 18.38  |
|           | 1 RB low       | 715.3           | 23.43       | 22.46 | 21.22 | 18.41  |
|           |                | 707.5           | 23.39       | 22.50 | 21.15 | 18.40  |
|           |                | 699.7           | 23.25       | 22.34 | 21.13 | 18.28  |
|           | 50% RB mid     | 715.3           | 23.50       | 22.62 | 21.23 | 18.37  |
|           |                | 707.5           | 23.50       | 22.61 | 21.23 | 18.37  |
|           |                | 699.7           | 23.53       | 22.61 | 21.26 | 18.38  |
|           | 100% RB        | 715.3           | 22.45       | 21.65 | 20.32 | 18.41  |
|           |                | 707.5           | 22.42       | 21.63 | 20.35 | 18.40  |
|           |                | 699.7           | 22.43       | 21.65 | 20.34 | 18.38  |
| 3MHz      | 1 RB high      | 714.5           | 23.42       | 22.49 | 21.26 | 18.43  |
|           |                | 707.5           | 23.43       | 22.51 | 21.26 | 18.43  |
|           |                | 700.5           | 23.35       | 22.39 | 21.12 | 18.34  |
|           | 1 RB low       | 714.5           | 23.42       | 22.46 | 21.19 | 18.41  |
|           |                | 707.5           | 23.46       | 22.50 | 21.20 | 18.42  |
|           |                | 700.5           | 23.38       | 22.46 | 21.14 | 18.33  |
|           | 50% RB mid     | 714.5           | 22.43       | 21.50 | 20.43 | 18.37  |
|           |                | 707.5           | 22.42       | 21.51 | 20.43 | 18.40  |
|           |                | 700.5           | 22.45       | 21.54 | 20.32 | 18.38  |
|           | 100% RB        | 714.5           | 22.47       | 21.43 | 20.40 | 18.37  |
|           |                | 707.5           | 22.48       | 21.43 | 20.45 | 18.40  |
|           |                | 700.5           | 22.49       | 21.45 | 20.40 | 18.38  |
| 5MHz      | 1 RB high      | 713.5           | 23.57       | 22.56 | 21.71 | 18.58  |
|           |                | 707.5           | 23.61       | 22.64 | 21.66 | 18.54  |
|           |                | 701.5           | 23.54       | 22.60 | 21.65 | 18.58  |
|           | 1 RB low       | 713.5           | 23.55       | 22.59 | 21.75 | 18.58  |
|           |                | 707.5           | 23.63       | 22.67 | 21.71 | 18.57  |
|           |                | 701.5           | 23.49       | 22.53 | 21.76 | 18.48  |
|           | 50% RB mid     | 713.5           | 22.52       | 21.60 | 20.56 | 18.51  |
|           |                | 707.5           | 22.51       | 21.62 | 20.61 | 18.54  |
|           |                | 701.5           | 22.47       | 21.58 | 20.49 | 18.50  |
|           | 100% RB        | 713.5           | 22.58       | 21.52 | 20.52 | 18.48  |
|           |                | 707.5           | 22.58       | 21.50 | 20.58 | 18.53  |
|           |                | 701.5           | 22.55       | 21.52 | 20.54 | 18.50  |
| 10MHz     | 1 RB high      | 711.0           | 23.58       | 22.57 | 21.36 | 18.59  |
|           |                | 707.5           | 23.60       | 22.59 | 21.41 | 18.57  |
|           |                | 704.0           | 23.47       | 22.54 | 21.38 | 18.53  |
|           | 1 RB low       | 711.0           | 23.52       | 22.59 | 21.24 | 18.56  |



|  |            |       |       |       |       |       |
|--|------------|-------|-------|-------|-------|-------|
|  |            | 707.5 | 23.53 | 22.52 | 21.26 | 18.53 |
|  |            | 704.0 | 23.40 | 22.50 | 21.19 | 18.42 |
|  | 50% RB mid | 711.0 | 22.54 | 21.63 | 20.50 | 18.52 |
|  |            | 707.5 | 22.56 | 21.65 | 20.53 | 18.54 |
|  |            | 704.0 | 22.55 | 21.63 | 20.53 | 18.52 |
|  | 100% RB    | 711.0 | 22.57 | 21.58 | 20.47 | 18.43 |
|  |            | 707.5 | 22.59 | 21.62 | 20.53 | 18.49 |
|  |            | 704.0 | 22.53 | 21.56 | 20.46 | 18.43 |

**LTE band 13**

| Bandwidth | RB size/offset | Frequency (MHz) | Power (dBm) |       |       |        |
|-----------|----------------|-----------------|-------------|-------|-------|--------|
|           |                |                 | QPSK        | 16QAM | 64QAM | 256QAM |
| 5MHz      | 1 RB high      | 784.5           | 23.12       | 22.13 | 21.28 | 18.19  |
|           |                | 782.0           | 23.13       | 22.16 | 21.31 | 18.19  |
|           |                | 779.5           | 23.19       | 22.03 | 21.33 | 18.24  |
|           | 1 RB low       | 784.5           | 23.20       | 22.21 | 21.32 | 18.23  |
|           |                | 782.0           | 23.14       | 22.17 | 21.33 | 18.24  |
|           |                | 779.5           | 23.20       | 22.15 | 21.40 | 18.18  |
|           | 50% RB mid     | 784.5           | 22.04       | 21.17 | 20.21 | 18.18  |
|           |                | 782.0           | 22.09       | 21.20 | 20.25 | 18.20  |
|           |                | 779.5           | 22.12       | 21.18 | 20.25 | 18.23  |
|           | 100% RB        | 784.5           | 22.11       | 21.07 | 20.17 | 18.15  |
|           |                | 782.0           | 22.15       | 21.09 | 20.19 | 18.16  |
|           |                | 779.5           | 22.15       | 21.11 | 20.22 | 18.21  |
| 10MHz     | 1 RB high      | 782.0           | 23.16       | 22.12 | 21.05 | 18.20  |
|           | 1 RB low       | 782.0           | 23.10       | 22.22 | 21.19 | 18.18  |
|           | 50% RB mid     | 782.0           | 22.16       | 21.29 | 20.20 | 18.24  |
|           | 100% RB        | 782.0           | 22.16       | 21.16 | 20.12 | 18.09  |

**LTE band 14**

| Bandwidth | RB size/offset | Frequency (MHz) | Power (dBm) |       |       |        |
|-----------|----------------|-----------------|-------------|-------|-------|--------|
|           |                |                 | QPSK        | 16QAM | 64QAM | 256QAM |
| 5MHz      | 1 RB high      | 795.5           | 23.59       | 22.68 | 21.84 | 18.72  |
|           |                | 793.0           | 23.58       | 22.73 | 21.85 | 18.72  |
|           |                | 790.5           | 23.60       | 22.77 | 21.66 | 18.39  |
|           | 1 RB low       | 795.5           | 23.62       | 22.75 | 21.87 | 18.79  |
|           |                | 793.0           | 23.64       | 22.72 | 21.89 | 18.69  |
|           |                | 790.5           | 23.66       | 22.86 | 21.61 | 18.45  |
|           | 50% RB mid     | 795.5           | 22.69       | 21.73 | 20.77 | 18.69  |
|           |                | 793.0           | 22.70       | 21.80 | 20.77 | 18.74  |
|           |                | 790.5           | 22.71       | 21.81 | 20.72 | 18.75  |
|           | 100% RB        | 795.5           | 22.71       | 21.66 | 20.67 | 18.64  |
|           |                | 793.0           | 22.74       | 21.69 | 20.72 | 18.69  |
|           |                | 790.5           | 22.79       | 21.75 | 20.76 | 18.74  |
| 10MHz     | 1 RB high      | 793.0           | 23.58       | 22.78 | 21.89 | 19.11  |
|           | 1 RB low       | 793.0           | 23.70       | 22.82 | 21.46 | 18.83  |
|           | 50% RB mid     | 793.0           | 22.76       | 21.86 | 20.77 | 18.79  |
|           | 100% RB        | 793.0           | 22.78       | 21.79 | 20.71 | 18.70  |

**LTE band 25**

| Bandwidth | RB size/offset | Frequency (MHz) | Power (dBm) |       |       |        |
|-----------|----------------|-----------------|-------------|-------|-------|--------|
|           |                |                 | QPSK        | 16QAM | 64QAM | 256QAM |
| 1.4MHz    | 1 RB high      | 1914.3          | 23.48       | 22.63 | 21.45 | 18.53  |
|           |                | 1882.5          | 23.62       | 22.76 | 21.54 | 18.61  |
|           |                | 1850.7          | 23.55       | 22.60 | 21.96 | 18.67  |
|           | 1 RB low       | 1914.3          | 23.47       | 22.65 | 21.30 | 18.50  |
|           |                | 1882.5          | 23.61       | 22.78 | 21.42 | 18.58  |
|           |                | 1850.7          | 23.56       | 22.60 | 21.90 | 18.68  |
|           | 50% RB mid     | 1914.3          | 23.60       | 22.70 | 21.40 | 18.50  |
|           |                | 1882.5          | 23.64       | 22.77 | 21.49 | 18.61  |
|           |                | 1850.7          | 23.65       | 22.79 | 21.52 | 18.55  |
|           | 100% RB        | 1914.3          | 22.54       | 21.71 | 20.49 | 18.54  |
|           |                | 1882.5          | 22.57       | 21.75 | 20.56 | 18.60  |
|           |                | 1850.7          | 22.62       | 21.84 | 20.57 | 18.65  |
| 3MHz      | 1 RB high      | 1913.5          | 23.51       | 22.55 | 21.44 | 18.54  |
|           |                | 1882.5          | 23.57       | 22.62 | 21.49 | 18.62  |
|           |                | 1851.5          | 23.58       | 22.60 | 21.50 | 18.64  |
|           | 1 RB low       | 1913.5          | 23.49       | 22.54 | 21.28 | 18.50  |
|           |                | 1882.5          | 23.62       | 22.66 | 21.35 | 18.64  |
|           |                | 1851.5          | 23.62       | 22.65 | 21.38 | 18.63  |
|           | 50% RB mid     | 1913.5          | 22.51       | 21.57 | 20.61 | 18.53  |
|           |                | 1882.5          | 22.56       | 21.68 | 20.67 | 18.62  |
|           |                | 1851.5          | 22.58       | 21.69 | 20.56 | 18.65  |
|           | 100% RB        | 1913.5          | 22.53       | 21.51 | 20.47 | 18.45  |
|           |                | 1882.5          | 22.58       | 21.54 | 20.62 | 18.60  |
|           |                | 1851.5          | 22.63       | 21.60 | 20.65 | 18.61  |
| 5MHz      | 1 RB high      | 1912.5          | 23.69       | 22.70 | 21.81 | 18.67  |
|           |                | 1882.5          | 23.68       | 22.71 | 21.82 | 18.75  |
|           |                | 1852.5          | 23.69       | 22.72 | 21.82 | 18.74  |
|           | 1 RB low       | 1912.5          | 23.63       | 22.64 | 21.86 | 18.69  |
|           |                | 1882.5          | 23.71       | 22.74 | 21.88 | 18.74  |
|           |                | 1852.5          | 23.75       | 22.80 | 21.89 | 18.77  |
|           | 50% RB mid     | 1912.5          | 22.55       | 21.65 | 20.73 | 18.66  |
|           |                | 1882.5          | 22.64       | 21.75 | 20.80 | 18.73  |
|           |                | 1852.5          | 22.61       | 21.73 | 20.71 | 18.75  |
|           | 100% RB        | 1912.5          | 22.63       | 21.57 | 20.66 | 18.66  |
|           |                | 1882.5          | 22.68       | 21.61 | 20.68 | 18.68  |
|           |                | 1852.5          | 22.69       | 21.63 | 20.73 | 18.71  |
| 10MHz     | 1 RB high      | 1910.0          | 23.60       | 22.68 | 21.52 | 18.71  |
|           |                | 1882.5          | 23.67       | 22.70 | 21.61 | 18.79  |
|           |                | 1855.0          | 23.70       | 22.69 | 21.58 | 18.77  |
|           | 1 RB low       | 1910.0          | 23.64       | 22.68 | 21.35 | 18.71  |

|       |            |        |       |       |       |       |
|-------|------------|--------|-------|-------|-------|-------|
|       |            | 1882.5 | 23.63 | 22.67 | 21.47 | 18.73 |
|       |            | 1855.0 | 23.70 | 22.68 | 21.44 | 18.78 |
|       | 50% RB mid | 1910.0 | 22.57 | 21.69 | 20.62 | 18.68 |
|       |            | 1882.5 | 22.65 | 21.74 | 20.74 | 18.75 |
|       |            | 1855.0 | 22.65 | 21.67 | 20.72 | 18.72 |
|       | 100% RB    | 1910.0 | 22.63 | 21.68 | 20.67 | 18.63 |
|       |            | 1882.5 | 22.64 | 21.67 | 20.68 | 18.67 |
|       |            | 1855.0 | 22.68 | 21.69 | 20.68 | 18.66 |
| 15MHz | 1 RB high  | 1907.5 | 23.59 | 22.94 | 22.01 | 18.94 |
|       |            | 1882.5 | 23.65 | 23.06 | 22.06 | 18.98 |
|       |            | 1857.5 | 23.66 | 23.06 | 22.09 | 19.02 |
|       | 1 RB low   | 1907.5 | 23.57 | 22.98 | 22.01 | 18.95 |
|       |            | 1882.5 | 23.62 | 23.02 | 22.02 | 18.98 |
|       |            | 1857.5 | 23.70 | 23.08 | 22.03 | 19.06 |
|       | 50% RB mid | 1907.5 | 22.61 | 21.63 | 20.65 | 18.68 |
|       |            | 1882.5 | 22.66 | 21.69 | 20.67 | 18.72 |
|       |            | 1857.5 | 22.63 | 21.65 | 20.67 | 18.67 |
|       | 100% RB    | 1907.5 | 22.64 | 21.67 | 20.71 | 18.72 |
|       |            | 1882.5 | 22.66 | 21.69 | 20.71 | 18.72 |
|       |            | 1857.5 | 22.71 | 21.71 | 20.75 | 18.76 |
| 20MHz | 1 RB high  | 1905.0 | 23.60 | 23.14 | 21.55 | 18.65 |
|       |            | 1882.5 | 23.65 | 23.29 | 21.59 | 18.68 |
|       |            | 1860.0 | 23.64 | 23.29 | 21.58 | 18.69 |
|       | 1 RB low   | 1905.0 | 23.66 | 23.27 | 21.80 | 18.72 |
|       |            | 1882.5 | 23.62 | 23.28 | 21.93 | 18.64 |
|       |            | 1860.0 | 23.66 | 23.27 | 21.88 | 18.68 |
|       | 50% RB mid | 1905.0 | 22.64 | 21.69 | 20.69 | 18.75 |
|       |            | 1882.5 | 22.70 | 21.72 | 20.73 | 18.77 |
|       |            | 1860.0 | 22.72 | 21.74 | 20.74 | 18.76 |
|       | 100% RB    | 1905.0 | 22.62 | 21.64 | 20.69 | 18.65 |
|       |            | 1882.5 | 22.68 | 21.68 | 20.71 | 18.69 |
|       |            | 1860.0 | 22.77 | 21.76 | 20.76 | 18.76 |

**LTE band 26(814MHz~824MHz)**

| Bandwidth | RB size/offset | Frequency (MHz) | Power (dBm) |       |       |        |
|-----------|----------------|-----------------|-------------|-------|-------|--------|
|           |                |                 | QPSK        | 16QAM | 64QAM | 256QAM |
| 1.4MHz    | 1 RB high      | 823.3           | 23.31       | 22.82 | 21.99 | 18.72  |
|           |                | 819.0           | 23.27       | 22.53 | 21.49 | 18.55  |
|           |                | 814.7           | 23.20       | 22.59 | 21.83 | 18.59  |
|           | 1 RB low       | 823.3           | 23.29       | 22.83 | 21.93 | 18.73  |
|           |                | 819.0           | 23.23       | 22.53 | 21.30 | 18.54  |
|           |                | 814.7           | 23.17       | 22.44 | 21.83 | 18.60  |
|           | 50% RB mid     | 823.3           | 23.31       | 22.77 | 21.74 | 18.62  |
|           |                | 819.0           | 23.36       | 22.66 | 21.67 | 18.56  |
|           |                | 814.7           | 23.40       | 22.66 | 21.79 | 18.53  |
|           | 100% RB        | 823.3           | 22.60       | 21.50 | 20.66 | 18.59  |
|           |                | 819.0           | 22.51       | 21.76 | 20.59 | 18.54  |
|           |                | 814.7           | 22.52       | 21.43 | 20.55 | 18.47  |
| 3MHz      | 1 RB high      | 822.5           | 23.27       | 22.62 | 21.41 | 18.62  |
|           |                | 819.0           | 23.23       | 22.51 | 21.44 | 18.56  |
|           |                | 815.5           | 23.31       | 22.50 | 21.39 | 18.51  |
|           | 1 RB low       | 822.5           | 23.26       | 22.66 | 21.28 | 18.58  |
|           |                | 819.0           | 23.28       | 22.49 | 21.24 | 18.47  |
|           |                | 815.5           | 23.30       | 22.50 | 21.20 | 18.49  |
|           | 50% RB mid     | 822.5           | 22.58       | 21.67 | 20.67 | 18.65  |
|           |                | 819.0           | 22.51       | 21.59 | 20.59 | 18.53  |
|           |                | 815.5           | 22.45       | 21.57 | 20.42 | 18.55  |
|           | 100% RB        | 822.5           | 22.64       | 21.60 | 20.64 | 18.61  |
|           |                | 819.0           | 22.56       | 21.51 | 20.54 | 18.51  |
|           |                | 815.5           | 22.53       | 21.52 | 20.54 | 18.52  |
| 5MHz      | 1 RB high      | 821.5           | 23.45       | 22.67 | 21.82 | 18.74  |
|           |                | 819.0           | 23.45       | 22.68 | 21.93 | 18.74  |
|           |                | 816.5           | 23.43       | 22.67 | 21.85 | 18.70  |
|           | 1 RB low       | 821.5           | 23.47       | 22.56 | 21.88 | 18.61  |
|           |                | 819.0           | 23.51       | 22.56 | 21.90 | 18.62  |
|           |                | 816.5           | 23.50       | 22.60 | 21.87 | 18.67  |
|           | 50% RB mid     | 821.5           | 22.65       | 21.75 | 20.85 | 18.74  |
|           |                | 819.0           | 22.61       | 21.67 | 20.79 | 18.64  |
|           |                | 816.5           | 22.56       | 21.67 | 20.65 | 18.64  |
|           | 100% RB        | 821.5           | 22.70       | 21.67 | 20.72 | 18.69  |
|           |                | 819.0           | 22.66       | 21.64 | 20.68 | 18.64  |
|           |                | 816.5           | 22.65       | 21.61 | 20.66 | 18.62  |
| 10MHz     | 1 RB high      | 819.0           | 23.46       | 22.70 | 21.51 | 18.76  |
|           | 1 RB low       | 819.0           | 23.50       | 22.57 | 21.41 | 18.61  |
|           | 50% RB mid     | 819.0           | 22.73       | 21.74 | 20.80 | 18.73  |
|           | 100% RB        | 819.0           | 22.73       | 21.76 | 20.72 | 18.70  |

**LTE band 26(824MHz~849MHz)**

| Bandwidth | RB size/offset | Frequency (MHz) | Power (dBm) |       |       |        |
|-----------|----------------|-----------------|-------------|-------|-------|--------|
|           |                |                 | QPSK        | 16QAM | 64QAM | 256QAM |
| 1.4MHz    | 1 RB high      | 848.3           | 23.15       | 22.59 | 21.37 | 18.50  |
|           |                | 836.5           | 23.31       | 22.58 | 21.61 | 18.36  |
|           |                | 824.7           | 23.19       | 22.60 | 21.99 | 18.72  |
|           | 1 RB low       | 848.3           | 23.13       | 22.54 | 21.38 | 18.47  |
|           |                | 836.5           | 23.33       | 22.67 | 21.52 | 18.39  |
|           |                | 824.7           | 23.19       | 22.60 | 21.93 | 18.69  |
|           | 50% RB mid     | 848.3           | 23.22       | 22.62 | 21.74 | 18.56  |
|           |                | 836.5           | 23.37       | 22.68 | 21.70 | 18.50  |
|           |                | 824.7           | 23.35       | 22.68 | 21.63 | 18.57  |
|           | 100% RB        | 848.3           | 22.46       | 21.40 | 20.58 | 18.51  |
|           |                | 836.5           | 22.51       | 21.38 | 20.75 | 18.46  |
|           |                | 824.7           | 22.52       | 21.70 | 20.65 | 18.52  |
| 3MHz      | 1 RB high      | 847.5           | 23.15       | 22.45 | 21.28 | 18.48  |
|           |                | 836.5           | 23.36       | 22.45 | 21.33 | 18.51  |
|           |                | 825.5           | 23.31       | 22.56 | 21.41 | 18.62  |
|           | 1 RB low       | 847.5           | 23.22       | 22.47 | 21.28 | 18.48  |
|           |                | 836.5           | 23.37       | 22.49 | 21.30 | 18.52  |
|           |                | 825.5           | 23.29       | 22.63 | 21.39 | 18.59  |
|           | 50% RB mid     | 847.5           | 22.50       | 21.55 | 20.59 | 18.52  |
|           |                | 836.5           | 22.48       | 21.58 | 20.56 | 18.53  |
|           |                | 825.5           | 22.55       | 21.63 | 20.53 | 18.58  |
|           | 100% RB        | 847.5           | 22.52       | 21.50 | 20.44 | 18.49  |
|           |                | 836.5           | 22.55       | 21.48 | 20.54 | 18.52  |
|           |                | 825.5           | 22.58       | 21.55 | 20.62 | 18.58  |
| 5MHz      | 1 RB high      | 846.5           | 23.44       | 22.54 | 21.67 | 18.63  |
|           |                | 836.5           | 23.59       | 22.58 | 21.83 | 18.68  |
|           |                | 826.5           | 23.64       | 22.77 | 22.00 | 18.84  |
|           | 1 RB low       | 846.5           | 23.47       | 22.52 | 21.81 | 18.58  |
|           |                | 836.5           | 23.65       | 22.63 | 21.85 | 18.73  |
|           |                | 826.5           | 23.52       | 22.74 | 22.02 | 18.78  |
|           | 50% RB mid     | 846.5           | 22.55       | 21.63 | 20.72 | 18.60  |
|           |                | 836.5           | 22.59       | 21.68 | 20.70 | 18.65  |
|           |                | 826.5           | 22.63       | 21.74 | 20.75 | 18.71  |
|           | 100% RB        | 846.5           | 22.63       | 21.57 | 20.64 | 18.61  |
|           |                | 836.5           | 22.64       | 21.57 | 20.65 | 18.61  |
|           |                | 826.5           | 22.70       | 21.64 | 20.71 | 18.69  |
| 10MHz     | 1 RB high      | 844.0           | 23.35       | 22.55 | 21.30 | 18.64  |
|           |                | 836.5           | 23.53       | 22.56 | 21.51 | 18.66  |
|           |                | 829.0           | 23.57       | 22.65 | 21.44 | 18.69  |
|           | 1 RB low       | 844.0           | 23.54       | 22.56 | 21.38 | 18.61  |

|       |            |       |       |       |       |       |
|-------|------------|-------|-------|-------|-------|-------|
|       |            | 836.5 | 23.62 | 22.74 | 21.42 | 18.78 |
|       |            | 829.0 | 23.40 | 22.67 | 21.47 | 18.67 |
|       |            | 844.0 | 22.58 | 21.65 | 20.61 | 18.60 |
|       | 50% RB mid | 836.5 | 22.65 | 21.76 | 20.70 | 18.70 |
|       |            | 829.0 | 22.76 | 21.84 | 20.80 | 18.80 |
|       |            | 844.0 | 22.59 | 21.62 | 20.58 | 18.55 |
|       | 100% RB    | 836.5 | 22.67 | 21.70 | 20.64 | 18.63 |
|       |            | 829.0 | 22.74 | 21.79 | 20.75 | 18.70 |
|       |            | 844.0 | 22.58 | 21.65 | 20.61 | 18.60 |
| 15MHz | 1 RB high  | 841.5 | 23.38 | 22.83 | 21.97 | 18.88 |
|       |            | 836.5 | 23.49 | 22.84 | 21.91 | 18.80 |
|       |            | 831.5 | 23.54 | 22.90 | 21.96 | 18.84 |
|       | 1 RB low   | 841.5 | 23.54 | 22.94 | 21.91 | 18.95 |
|       |            | 836.5 | 23.61 | 23.00 | 21.92 | 18.98 |
|       |            | 831.5 | 23.42 | 22.97 | 21.90 | 18.97 |
|       | 50% RB mid | 841.5 | 22.54 | 21.57 | 20.54 | 18.58 |
|       |            | 836.5 | 22.58 | 21.62 | 20.58 | 18.62 |
|       |            | 831.5 | 22.63 | 21.70 | 20.63 | 18.70 |
|       | 100% RB    | 841.5 | 22.58 | 21.61 | 20.63 | 18.61 |
|       |            | 836.5 | 22.64 | 21.64 | 20.66 | 18.65 |
|       |            | 831.5 | 22.71 | 21.72 | 20.71 | 18.68 |



**LTE band 30**

| Bandwidth | RB size/offset | Frequency (MHz) | Power (dBm) |       |       |        |
|-----------|----------------|-----------------|-------------|-------|-------|--------|
|           |                |                 | QPSK        | 16QAM | 64QAM | 256QAM |
| 5MHz      | 1 RB high      | 2312.5          | 23.31       | 22.32 | 21.81 | 18.67  |
|           |                | 2310.0          | 23.42       | 22.44 | 21.79 | 18.67  |
|           |                | 2307.5          | 23.37       | 22.24 | 21.48 | 18.27  |
|           | 1 RB low       | 2312.5          | 23.39       | 22.42 | 21.78 | 18.70  |
|           |                | 2310.0          | 23.44       | 22.48 | 21.83 | 18.66  |
|           |                | 2307.5          | 23.44       | 22.30 | 21.49 | 18.27  |
|           | 50% RB mid     | 2312.5          | 22.33       | 21.67 | 20.74 | 18.67  |
|           |                | 2310.0          | 22.38       | 21.67 | 20.78 | 18.68  |
|           |                | 2307.5          | 22.37       | 21.69 | 20.67 | 18.67  |
|           | 100% RB        | 2312.5          | 22.39       | 21.60 | 20.66 | 18.64  |
|           |                | 2310.0          | 22.42       | 21.59 | 20.66 | 18.63  |
|           |                | 2307.5          | 22.43       | 21.60 | 20.64 | 18.65  |
| 10MHz     | 1 RB high      | 2310.0          | 23.38       | 22.37 | 21.51 | 18.73  |
|           | 1 RB low       | 2310.0          | 23.43       | 22.44 | 21.30 | 18.64  |
|           | 50% RB mid     | 2310.0          | 22.47       | 21.77 | 20.73 | 18.70  |
|           | 100% RB        | 2310.0          | 22.47       | 21.71 | 20.64 | 18.62  |

**LTE band 41**

| Bandwidth | RB size/offset | Frequency (MHz) | Power (dBm) |       |       |        |
|-----------|----------------|-----------------|-------------|-------|-------|--------|
|           |                |                 | QPSK        | 16QAM | 64QAM | 256QAM |
| 5MHz      | 1 RB high      | 2687.5          | 25.14       | 24.35 | 23.99 | 20.59  |
|           |                | 2593.0          | 25.63       | 24.82 | 24.22 | 20.82  |
|           |                | 2498.5          | 25.44       | 24.29 | 23.89 | 20.50  |
|           | 1 RB low       | 2687.5          | 25.12       | 24.30 | 23.85 | 20.63  |
|           |                | 2593.0          | 25.61       | 24.77 | 24.10 | 20.78  |
|           |                | 2498.5          | 25.37       | 24.25 | 23.78 | 20.43  |
|           | 50% RB mid     | 2687.5          | 24.03       | 23.54 | 22.48 | 20.42  |
|           |                | 2593.0          | 24.52       | 23.68 | 22.62 | 20.54  |
|           |                | 2498.5          | 24.27       | 23.41 | 22.26 | 20.27  |
|           | 100% RB        | 2687.5          | 24.07       | 23.45 | 22.38 | 20.38  |
|           |                | 2593.0          | 24.56       | 23.60 | 22.52 | 20.52  |
|           |                | 2498.5          | 24.27       | 23.35 | 22.26 | 20.26  |
| 10MHz     | 1 RB high      | 2685.0          | 25.10       | 24.21 | 23.35 | 20.49  |
|           |                | 2593.0          | 25.54       | 24.67 | 23.50 | 20.68  |
|           |                | 2501.0          | 25.41       | 24.55 | 23.37 | 20.50  |
|           | 1 RB low       | 2685.0          | 25.11       | 24.21 | 23.43 | 20.66  |
|           |                | 2593.0          | 25.55       | 24.66 | 23.64 | 20.68  |
|           |                | 2501.0          | 25.22       | 24.37 | 23.45 | 20.33  |
|           | 50% RB mid     | 2685.0          | 24.06       | 23.49 | 22.40 | 20.41  |
|           |                | 2593.0          | 24.53       | 23.60 | 22.47 | 20.53  |
|           |                | 2501.0          | 24.39       | 23.36 | 22.31 | 20.28  |
|           | 100% RB        | 2685.0          | 24.10       | 23.46 | 22.44 | 20.41  |
|           |                | 2593.0          | 24.55       | 23.59 | 22.55 | 20.50  |
|           |                | 2501.0          | 24.28       | 23.39 | 22.31 | 20.29  |
| 15MHz     | 1 RB high      | 2682.5          | 25.15       | 24.32 | 23.68 | 20.57  |
|           |                | 2593.0          | 25.61       | 24.77 | 23.85 | 20.77  |
|           |                | 2503.5          | 25.48       | 24.63 | 23.70 | 20.66  |
|           | 1 RB low       | 2682.5          | 25.23       | 24.38 | 23.61 | 20.85  |
|           |                | 2593.0          | 25.60       | 24.76 | 23.82 | 20.81  |
|           |                | 2503.5          | 25.27       | 24.40 | 23.72 | 20.44  |
|           | 50% RB mid     | 2682.5          | 24.08       | 23.54 | 22.45 | 20.46  |
|           |                | 2593.0          | 24.53       | 23.61 | 22.50 | 20.51  |
|           |                | 2503.5          | 24.41       | 23.41 | 22.36 | 20.30  |
|           | 100% RB        | 2682.5          | 24.12       | 23.53 | 22.53 | 20.53  |
|           |                | 2593.0          | 24.54       | 23.56 | 22.59 | 20.54  |
|           |                | 2503.5          | 24.39       | 23.39 | 22.40 | 20.35  |
| 20MHz     | 1 RB high      | 2680.0          | 25.15       | 24.47 | 23.70 | 20.81  |
|           |                | 2593.0          | 25.67       | 24.96 | 23.90 | 21.04  |
|           |                | 2506.0          | 25.57       | 24.85 | 23.84 | 21.00  |
|           | 1 RB low       | 2680.0          | 25.22       | 24.53 | 23.59 | 21.02  |

|  |            |        |       |       |       |       |
|--|------------|--------|-------|-------|-------|-------|
|  |            | 2593.0 | 25.61 | 24.88 | 23.81 | 21.01 |
|  |            | 2506.0 | 25.25 | 24.57 | 23.76 | 20.63 |
|  | 50% RB mid | 2680.0 | 24.09 | 23.65 | 22.45 | 20.52 |
|  |            | 2593.0 | 24.56 | 23.63 | 22.48 | 20.47 |
|  |            | 2506.0 | 24.51 | 23.49 | 22.54 | 20.42 |
|  | 100% RB    | 2680.0 | 24.15 | 23.58 | 22.55 | 20.50 |
|  |            | 2593.0 | 24.58 | 23.60 | 22.48 | 20.49 |
|  |            | 2506.0 | 24.43 | 23.43 | 22.42 | 20.41 |

**LTE band 66**

| Bandwidth | RB size/offset | Frequency (MHz) | Power (dBm) |       |       |        |
|-----------|----------------|-----------------|-------------|-------|-------|--------|
|           |                |                 | QPSK        | 16QAM | 64QAM | 256QAM |
| 1.4MHz    | 1 RB high      | 1779.3          | 23.30       | 22.32 | 21.22 | 18.29  |
|           |                | 1745.0          | 23.32       | 22.35 | 21.25 | 18.33  |
|           |                | 1710.7          | 23.26       | 22.38 | 21.64 | 18.37  |
|           | 1 RB low       | 1779.3          | 23.28       | 22.29 | 21.09 | 18.28  |
|           |                | 1745.0          | 23.30       | 22.33 | 21.14 | 18.36  |
|           |                | 1710.7          | 23.27       | 22.41 | 21.04 | 18.26  |
|           | 50% RB mid     | 1779.3          | 23.35       | 22.52 | 21.18 | 18.28  |
|           |                | 1745.0          | 23.32       | 22.50 | 21.12 | 18.27  |
|           |                | 1710.7          | 23.34       | 22.48 | 21.18 | 18.25  |
|           | 100% RB        | 1779.3          | 22.32       | 21.22 | 20.21 | 18.29  |
|           |                | 1745.0          | 22.34       | 21.23 | 20.22 | 18.27  |
|           |                | 1710.7          | 22.27       | 21.45 | 20.32 | 18.26  |
| 3MHz      | 1 RB high      | 1778.5          | 23.29       | 22.31 | 21.55 | 18.74  |
|           |                | 1745.0          | 23.34       | 22.36 | 21.58 | 18.77  |
|           |                | 1711.5          | 23.29       | 22.33 | 21.18 | 18.29  |
|           | 1 RB low       | 1778.5          | 23.30       | 22.34 | 21.91 | 18.71  |
|           |                | 1745.0          | 23.32       | 22.36 | 21.95 | 18.74  |
|           |                | 1711.5          | 23.28       | 22.33 | 21.04 | 18.27  |
|           | 50% RB mid     | 1778.5          | 22.27       | 21.35 | 20.38 | 18.29  |
|           |                | 1745.0          | 22.27       | 21.34 | 20.34 | 18.27  |
|           |                | 1711.5          | 22.29       | 21.33 | 20.25 | 18.24  |
|           | 100% RB        | 1778.5          | 22.33       | 21.28 | 20.37 | 18.25  |
|           |                | 1745.0          | 22.31       | 21.26 | 20.33 | 18.26  |
|           |                | 1711.5          | 22.30       | 21.26 | 20.30 | 18.27  |
| 5MHz      | 1 RB high      | 1777.5          | 23.47       | 22.49 | 21.57 | 18.43  |
|           |                | 1745.0          | 23.43       | 22.46 | 21.57 | 18.44  |
|           |                | 1712.5          | 23.42       | 22.43 | 21.55 | 18.48  |
|           | 1 RB low       | 1777.5          | 23.41       | 22.44 | 21.60 | 18.42  |
|           |                | 1745.0          | 23.42       | 22.46 | 21.62 | 18.44  |
|           |                | 1712.5          | 23.40       | 22.42 | 21.61 | 18.45  |
|           | 50% RB mid     | 1777.5          | 22.36       | 21.44 | 20.52 | 18.43  |
|           |                | 1745.0          | 22.35       | 21.45 | 20.51 | 18.43  |
|           |                | 1712.5          | 22.32       | 21.39 | 20.40 | 18.42  |
|           | 100% RB        | 1777.5          | 22.40       | 21.35 | 20.43 | 18.41  |
|           |                | 1745.0          | 22.41       | 21.33 | 20.41 | 18.39  |
|           |                | 1712.5          | 22.38       | 21.32 | 20.41 | 18.39  |
| 10MHz     | 1 RB high      | 1775.0          | 23.43       | 22.38 | 21.65 | 18.86  |
|           |                | 1745.0          | 23.41       | 22.44 | 21.67 | 18.89  |
|           |                | 1715.0          | 23.34       | 22.41 | 21.64 | 18.83  |
|           | 1 RB low       | 1775.0          | 23.37       | 22.41 | 21.62 | 18.84  |

|       |            |        |       |       |       |       |
|-------|------------|--------|-------|-------|-------|-------|
|       |            | 1745.0 | 23.35 | 22.38 | 21.62 | 18.85 |
|       |            | 1715.0 | 23.32 | 22.34 | 21.57 | 18.80 |
|       | 50% RB mid | 1775.0 | 22.41 | 21.45 | 20.46 | 18.38 |
|       |            | 1745.0 | 22.37 | 21.42 | 20.42 | 18.35 |
|       |            | 1715.0 | 22.38 | 21.39 | 20.41 | 18.30 |
|       | 100% RB    | 1775.0 | 22.43 | 21.45 | 20.42 | 18.41 |
|       |            | 1745.0 | 22.37 | 21.40 | 20.38 | 18.41 |
|       |            | 1715.0 | 22.36 | 21.40 | 20.36 | 18.40 |
| 15MHz | 1 RB high  | 1772.5 | 23.32 | 22.74 | 21.78 | 18.70 |
|       |            | 1745.0 | 23.40 | 22.80 | 21.81 | 18.74 |
|       |            | 1717.5 | 23.34 | 22.67 | 21.62 | 18.82 |
|       | 1 RB low   | 1772.5 | 23.30 | 22.70 | 21.75 | 18.68 |
|       |            | 1745.0 | 23.29 | 22.68 | 21.77 | 18.63 |
|       |            | 1717.5 | 23.32 | 22.74 | 21.89 | 18.83 |
|       | 50% RB mid | 1772.5 | 22.40 | 21.40 | 20.40 | 18.38 |
|       |            | 1745.0 | 22.38 | 21.37 | 20.37 | 18.37 |
|       |            | 1717.5 | 22.35 | 21.36 | 20.39 | 18.35 |
|       | 100% RB    | 1772.5 | 22.43 | 21.44 | 20.47 | 18.47 |
|       |            | 1745.0 | 22.39 | 21.41 | 20.45 | 18.42 |
|       |            | 1717.5 | 22.38 | 21.43 | 20.42 | 18.43 |
| 20MHz | 1 RB high  | 1770.0 | 23.42 | 22.99 | 21.24 | 18.38 |
|       |            | 1745.0 | 23.46 | 23.09 | 21.32 | 18.42 |
|       |            | 1720.0 | 23.33 | 22.92 | 21.20 | 18.28 |
|       | 1 RB low   | 1770.0 | 23.33 | 22.88 | 21.55 | 18.33 |
|       |            | 1745.0 | 23.24 | 22.85 | 21.68 | 18.27 |
|       |            | 1720.0 | 23.28 | 22.94 | 21.61 | 18.24 |
|       | 50% RB mid | 1770.0 | 22.38 | 21.41 | 20.42 | 18.46 |
|       |            | 1745.0 | 22.46 | 21.42 | 20.45 | 18.45 |
|       |            | 1720.0 | 22.48 | 21.39 | 20.46 | 18.44 |
|       | 100% RB    | 1770.0 | 22.39 | 21.40 | 20.39 | 18.39 |
|       |            | 1745.0 | 22.44 | 21.45 | 20.45 | 18.45 |
|       |            | 1720.0 | 22.43 | 21.39 | 20.42 | 18.40 |

**LTE band 71**

| Bandwidth | RB size/offset | Frequency (MHz) | Power (dBm) |       |       |        |
|-----------|----------------|-----------------|-------------|-------|-------|--------|
|           |                |                 | QPSK        | 16QAM | 64QAM | 256QAM |
| 5MHz      | 1 RB high      | 695.5           | 22.66       | 21.61 | 20.81 | 17.69  |
|           |                | 680.5           | 22.68       | 21.68 | 20.83 | 17.70  |
|           |                | 665.5           | 22.61       | 21.56 | 20.69 | 17.58  |
|           | 1 RB low       | 695.5           | 22.63       | 21.68 | 20.85 | 17.73  |
|           |                | 680.5           | 22.66       | 21.67 | 20.87 | 17.69  |
|           |                | 665.5           | 22.62       | 21.64 | 20.74 | 17.58  |
|           | 50% RB mid     | 695.5           | 21.55       | 20.63 | 19.71 | 17.66  |
|           |                | 680.5           | 21.53       | 20.62 | 19.70 | 17.65  |
|           |                | 665.5           | 21.59       | 20.65 | 19.69 | 17.66  |
|           | 100% RB        | 695.5           | 21.59       | 20.53 | 19.60 | 17.60  |
|           |                | 680.5           | 21.56       | 20.51 | 19.58 | 17.59  |
|           |                | 665.5           | 21.65       | 20.62 | 19.69 | 17.64  |
| 10MHz     | 1 RB high      | 693.0           | 22.51       | 21.53 | 20.49 | 17.68  |
|           |                | 680.5           | 22.56       | 21.64 | 20.58 | 17.74  |
|           |                | 668.0           | 22.36       | 21.46 | 20.32 | 17.51  |
|           | 1 RB low       | 693.0           | 22.60       | 21.63 | 20.38 | 17.73  |
|           |                | 680.5           | 22.41       | 21.47 | 20.40 | 17.55  |
|           |                | 668.0           | 22.47       | 21.60 | 20.17 | 17.56  |
|           | 50% RB mid     | 693.0           | 21.60       | 20.68 | 19.69 | 17.68  |
|           |                | 680.5           | 21.55       | 20.61 | 19.65 | 17.63  |
|           |                | 668.0           | 21.48       | 20.65 | 19.63 | 17.64  |
|           | 100% RB        | 693.0           | 21.59       | 20.65 | 19.63 | 17.63  |
|           |                | 680.5           | 21.52       | 20.54 | 19.54 | 17.52  |
|           |                | 668.0           | 21.50       | 20.53 | 19.52 | 17.53  |
| 15MHz     | 1 RB high      | 690.5           | 22.48       | 21.84 | 20.96 | 17.90  |
|           |                | 680.5           | 22.51       | 21.96 | 21.00 | 17.98  |
|           |                | 670.5           | 22.35       | 21.78 | 20.83 | 17.72  |
|           | 1 RB low       | 690.5           | 22.51       | 21.90 | 20.84 | 17.91  |
|           |                | 680.5           | 22.36       | 21.77 | 20.99 | 17.76  |
|           |                | 670.5           | 22.51       | 21.79 | 20.80 | 17.79  |
|           | 50% RB mid     | 690.5           | 21.55       | 20.49 | 19.57 | 17.55  |
|           |                | 680.5           | 21.49       | 20.46 | 19.55 | 17.54  |
|           |                | 670.5           | 21.39       | 20.42 | 19.49 | 17.50  |
|           | 100% RB        | 690.5           | 21.57       | 20.59 | 19.64 | 17.67  |
|           |                | 680.5           | 21.48       | 20.51 | 19.53 | 17.55  |
|           |                | 670.5           | 21.45       | 20.49 | 19.54 | 17.53  |
| 20MHz     | 1 RB high      | 688.0           | 22.56       | 22.15 | 20.52 | 17.58  |
|           |                | 680.5           | 22.65       | 22.31 | 20.59 | 17.73  |
|           |                | 673.0           | 22.49       | 22.12 | 20.48 | 17.58  |
|           | 1 RB low       | 688.0           | 22.47       | 22.12 | 20.90 | 17.51  |

|  |            |       |       |       |       |       |
|--|------------|-------|-------|-------|-------|-------|
|  |            | 680.5 | 22.38 | 22.02 | 20.92 | 17.48 |
|  |            | 673.0 | 22.46 | 22.01 | 20.78 | 17.44 |
|  | 50% RB mid | 688.0 | 21.63 | 20.53 | 19.70 | 17.60 |
|  |            | 680.5 | 21.51 | 20.47 | 19.59 | 17.59 |
|  |            | 673.0 | 21.54 | 20.40 | 19.61 | 17.51 |
|  | 100% RB    | 688.0 | 21.60 | 20.59 | 19.64 | 17.65 |
|  |            | 680.5 | 21.44 | 20.45 | 19.54 | 17.52 |
|  |            | 673.0 | 21.51 | 20.51 | 19.57 | 17.56 |

### A.1.3 Radiated

#### A.1.3.1 Description

This is the test for the maximum radiated power from the EUT.

FDD Band 7/TDD Band 38/41: Part 27.50(h)(2) specifies "Mobile stations are limited to 2.0 watts EIRP".

FDD Band 12/71: Part 27.50(c)(10) specifies "Portable stations(hand-held devices) in the 600 MHz uplink band and the 698–746 MHz band, and fixed and mobile stations in the 600 MHz uplink band are limited to 3 watts ERP".

FDD Band 13: Part 27.50(b) specifies "Portable stations(hand-held devices) transmitting in the 746–757 MHz, 776–788 MHz, and 805–806 MHz bands are limited to 3 watts ERP".

FDD Band 14: Part 90.542(a) specifies "Portable stations(hand-held devices) transmitting in the 758–768 MHz band and the 788–798 MHz band are limited to 3 watts ERP".

FDD Band 2/25: Part 24.232(c) specifies "Mobile and portable stations are limited to 2 watts EIRP".

LTE Band 26(814MHz~824MHz): Part 90.635(b) specifies "The maximum output power of the transmitter for mobile stations is 100 watts".

FDD Band 5/26(824MHz~849MHz): Part 22.913(a) specifies "The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 watts".

FDD Band 30: Part 27.50(a) specifies "For mobile and portable stations transmitting in the 2305–2315 MHz band or the 2350–2360 MHz band, the average EIRP must not exceed 50 milliwatts within any 1 megahertz of authorized bandwidth, except that for mobile and portable stations compliant with 3GPP LTE standards or another advanced mobile broadband protocol that avoids concentrating energy at the edge of the operating band the average EIRP must not exceed 250 milliwatts within any 5 megahertz of authorized bandwidth but may exceed 50 milliwatts within any 1 megahertz of authorized bandwidth".

FDD Band 4/66: Part 27.50(d)(4) specifies "Fixed, mobile, and portable(handheld) stations operating in the 1710–1755 MHz band and mobile and portable stations operating in the 1695–1710 MHz and 1755–1780 MHz bands are limited to 1 watt EIRP".

#### A.1.3.2 Method of Measurement

According to KDB 412172 D01 and ANSI C63.26 the relevant equation for determining the maximum ERP or EIRP from the measured RF output power is given in Equation as follows:

$$\text{ERP or EIRP} = P_T + G_T - L_C$$

where;

- **ERP or EIRP** = effective radiated power or equivalent isotropically radiated power(expressed in the same units as  $P_T$ ).
- $P_T$  = transmitter output power, in this report the unit express as dBm;
- $G_T$  = gain of the transmitting antenna, in dBd(ERP) or dBi(EIRP);
- $L_C$  = signal attenuation in the connecting cable between the transmitter and antenna, in dB.

Alternatively, the EIRP can be determined from Equation above and then converted to ERP based on the maximum antenna gain relationship by applying the following equation:

$$\text{ERP} = \text{EIRP} - 2.15\text{dB}$$

Note: The antenna gain information was provided by the client. The laboratory is not responsible for identifying its authenticity during the test.



### A.1.3.3 Limits and Measurement Results

#### LTE Band 7-EIRP

Limits:  $\leq 33\text{dBm}(2\text{W})$

| Bandwidth | RB size/offset | Frequency (MHz) | Conducted Power(dBm) |       |       |        | ERP(dBm)(Gt-Lc =-1.5) |       |       |        |
|-----------|----------------|-----------------|----------------------|-------|-------|--------|-----------------------|-------|-------|--------|
|           |                |                 | QPSK                 | 16QAM | 64QAM | 256QAM | QPSK                  | 16QAM | 64QAM | 256QAM |
| 5MHz      | 1 RB high      | 2567.5          | 21.95                | 20.95 | 20.08 | 16.95  | 20.45                 | 19.45 | 18.58 | 15.45  |
|           |                | 2535            | 22.21                | 21.21 | 20.37 | 17.20  | 20.71                 | 19.71 | 18.87 | 15.70  |
|           |                | 2502.5          | 21.82                | 20.73 | 19.98 | 16.82  | 20.32                 | 19.23 | 18.48 | 15.32  |
|           | 1 RB low       | 2567.5          | 21.95                | 20.98 | 20.14 | 16.96  | 20.45                 | 19.48 | 18.64 | 15.46  |
|           |                | 2535            | 22.19                | 21.19 | 20.41 | 17.21  | 20.69                 | 19.69 | 18.91 | 15.71  |
|           |                | 2502.5          | 21.68                | 20.54 | 20.01 | 16.63  | 20.18                 | 19.04 | 18.51 | 15.13  |
|           | 50% RB mid     | 2567.5          | 20.97                | 20.00 | 19.10 | 17.03  | 19.47                 | 18.50 | 17.60 | 15.53  |
|           |                | 2535            | 21.17                | 20.21 | 19.30 | 17.23  | 19.67                 | 18.71 | 17.80 | 15.73  |
|           |                | 2502.5          | 20.77                | 19.82 | 18.83 | 16.83  | 19.27                 | 18.32 | 17.33 | 15.33  |
|           | 100% RB        | 2567.5          | 21.00                | 19.95 | 19.02 | 16.99  | 19.50                 | 18.45 | 17.52 | 15.49  |
|           |                | 2535            | 21.19                | 20.13 | 19.22 | 17.18  | 19.69                 | 18.63 | 17.72 | 15.68  |
|           |                | 2502.5          | 20.80                | 19.73 | 18.80 | 16.81  | 19.30                 | 18.23 | 17.30 | 15.31  |
| 10MHz     | 1 RB high      | 2565            | 21.94                | 21.01 | 19.84 | 17.07  | 20.44                 | 19.51 | 18.34 | 15.57  |
|           |                | 2535            | 22.27                | 21.24 | 20.11 | 17.32  | 20.77                 | 19.74 | 18.61 | 15.82  |
|           |                | 2505            | 21.91                | 20.88 | 19.83 | 17.00  | 20.41                 | 19.38 | 18.33 | 15.50  |
|           | 1 RB low       | 2565            | 21.95                | 20.96 | 19.74 | 17.06  | 20.45                 | 19.46 | 18.24 | 15.56  |
|           |                | 2535            | 22.22                | 21.18 | 20.00 | 17.25  | 20.72                 | 19.68 | 18.50 | 15.75  |
|           |                | 2505            | 21.64                | 20.61 | 19.69 | 16.70  | 20.14                 | 19.11 | 18.19 | 15.20  |
|           | 50% RB mid     | 2565            | 21.04                | 20.09 | 19.11 | 17.07  | 19.54                 | 18.59 | 17.61 | 15.57  |
|           |                | 2535            | 21.30                | 20.32 | 19.32 | 17.29  | 19.80                 | 18.82 | 17.82 | 15.79  |
|           |                | 2505            | 20.90                | 19.91 | 18.99 | 16.92  | 19.40                 | 18.41 | 17.49 | 15.42  |
|           | 100% RB        | 2565            | 21.03                | 20.07 | 19.03 | 17.02  | 19.53                 | 18.57 | 17.53 | 15.52  |
|           |                | 2535            | 21.26                | 20.28 | 19.22 | 17.22  | 19.76                 | 18.78 | 17.72 | 15.72  |
|           |                | 2505            | 20.87                | 19.89 | 18.86 | 16.86  | 19.37                 | 18.39 | 17.36 | 15.36  |
| 15MHz     | 1 RB high      | 2562.5          | 21.95                | 21.34 | 20.39 | 17.29  | 20.45                 | 19.84 | 18.89 | 15.79  |
|           |                | 2535            | 22.28                | 21.64 | 20.65 | 17.54  | 20.78                 | 20.14 | 19.15 | 16.04  |
|           |                | 2507.5          | 21.98                | 21.40 | 20.34 | 17.30  | 20.48                 | 19.90 | 18.84 | 15.80  |
|           | 1 RB low       | 2562.5          | 22.07                | 21.48 | 20.38 | 17.39  | 20.57                 | 19.98 | 18.88 | 15.89  |
|           |                | 2535            | 22.16                | 21.52 | 20.64 | 17.47  | 20.66                 | 20.02 | 19.14 | 15.97  |
|           |                | 2507.5          | 21.72                | 21.14 | 20.31 | 17.01  | 20.22                 | 19.64 | 18.81 | 15.51  |
|           | 50% RB mid     | 2562.5          | 21.04                | 20.02 | 19.02 | 17.04  | 19.54                 | 18.52 | 17.52 | 15.54  |
|           |                | 2535            | 21.27                | 20.24 | 19.24 | 17.24  | 19.77                 | 18.74 | 17.74 | 15.74  |
|           |                | 2507.5          | 20.97                | 19.94 | 19.00 | 16.97  | 19.47                 | 18.44 | 17.50 | 15.47  |
|           | 100% RB        | 2562.5          | 21.04                | 20.05 | 19.05 | 17.07  | 19.54                 | 18.55 | 17.55 | 15.57  |
|           |                | 2535            | 21.25                | 20.30 | 19.27 | 17.28  | 19.75                 | 18.80 | 17.77 | 15.78  |
|           |                | 2507.5          | 20.93                | 19.95 | 18.97 | 16.95  | 19.43                 | 18.45 | 17.47 | 15.45  |
| 20MHz     | 1 RB high      | 2560            | 22.01                | 21.58 | 19.96 | 16.99  | 20.51                 | 20.08 | 18.46 | 15.49  |

|  |               |      |       |       |       |       |       |       |       |       |
|--|---------------|------|-------|-------|-------|-------|-------|-------|-------|-------|
|  |               | 2535 | 22.31 | 21.97 | 20.24 | 17.28 | 20.81 | 20.47 | 18.74 | 15.78 |
|  |               | 2510 | 21.99 | 21.63 | 19.87 | 16.98 | 20.49 | 20.13 | 18.37 | 15.48 |
|  | 1 RB low      | 2560 | 22.09 | 21.69 | 20.22 | 17.08 | 20.59 | 20.19 | 18.72 | 15.58 |
|  |               | 2535 | 22.11 | 21.78 | 20.53 | 17.07 | 20.61 | 20.28 | 19.03 | 15.57 |
|  |               | 2510 | 21.65 | 21.27 | 20.21 | 16.58 | 20.15 | 19.77 | 18.71 | 15.08 |
|  | 50% RB<br>mid | 2560 | 21.12 | 20.11 | 19.12 | 17.12 | 19.62 | 18.61 | 17.62 | 15.62 |
|  |               | 2535 | 21.33 | 20.28 | 19.35 | 17.32 | 19.83 | 18.78 | 17.85 | 15.82 |
|  |               | 2510 | 21.06 | 19.99 | 19.09 | 17.02 | 19.56 | 18.49 | 17.59 | 15.52 |
|  | 100% RB       | 2560 | 21.13 | 20.11 | 19.11 | 17.11 | 19.63 | 18.61 | 17.61 | 15.61 |
|  |               | 2535 | 21.30 | 20.30 | 19.30 | 17.29 | 19.80 | 18.80 | 17.80 | 15.79 |
|  |               | 2510 | 21.03 | 20.01 | 19.03 | 17.02 | 19.53 | 18.51 | 17.53 | 15.52 |

**LTE Band 12-ERP**
**Limits:  $\leq 34.77\text{dBm}(3\text{W})$** 

| Bandwidth | RB size/offset | Frequency (MHz) | Conducted Power(dBm) |       |       |        | ERP(dBm)(Gt-Lc =-3.3) |       |       |        |
|-----------|----------------|-----------------|----------------------|-------|-------|--------|-----------------------|-------|-------|--------|
|           |                |                 | QPSK                 | 16QAM | 64QAM | 256QAM | QPSK                  | 16QAM | 64QAM | 256QAM |
| 1.4MHz    | 1 RB high      | 715.3           | 23.44                | 22.48 | 21.30 | 18.41  | 17.99                 | 17.03 | 15.85 | 12.96  |
|           |                | 707.5           | 23.41                | 22.50 | 21.30 | 18.38  | 17.96                 | 17.05 | 15.85 | 12.93  |
|           |                | 699.7           | 23.32                | 22.41 | 21.29 | 18.38  | 17.87                 | 16.96 | 15.84 | 12.93  |
|           | 1 RB low       | 715.3           | 23.43                | 22.46 | 21.22 | 18.41  | 17.98                 | 17.01 | 15.77 | 12.96  |
|           |                | 707.5           | 23.39                | 22.50 | 21.15 | 18.40  | 17.94                 | 17.05 | 15.70 | 12.95  |
|           |                | 699.7           | 23.25                | 22.34 | 21.13 | 18.28  | 17.80                 | 16.89 | 15.68 | 12.83  |
|           | 50% RB mid     | 715.3           | 23.50                | 22.62 | 21.23 | 18.37  | 18.05                 | 17.17 | 15.78 | 12.92  |
|           |                | 707.5           | 23.50                | 22.61 | 21.23 | 18.37  | 18.05                 | 17.16 | 15.78 | 12.92  |
|           |                | 699.7           | 23.53                | 22.61 | 21.26 | 18.38  | 18.08                 | 17.16 | 15.81 | 12.93  |
|           | 100% RB        | 715.3           | 22.45                | 21.65 | 20.32 | 18.41  | 17.00                 | 16.20 | 14.87 | 12.96  |
|           |                | 707.5           | 22.42                | 21.63 | 20.35 | 18.40  | 16.97                 | 16.18 | 14.90 | 12.95  |
|           |                | 699.7           | 22.43                | 21.65 | 20.34 | 18.38  | 16.98                 | 16.20 | 14.89 | 12.93  |
| 3MHz      | 1 RB high      | 714.5           | 23.42                | 22.49 | 21.26 | 18.43  | 17.97                 | 17.04 | 15.81 | 12.98  |
|           |                | 707.5           | 23.43                | 22.51 | 21.26 | 18.43  | 17.98                 | 17.06 | 15.81 | 12.98  |
|           |                | 700.5           | 23.35                | 22.39 | 21.12 | 18.34  | 17.90                 | 16.94 | 15.67 | 12.89  |
|           | 1 RB low       | 714.5           | 23.42                | 22.46 | 21.19 | 18.41  | 17.97                 | 17.01 | 15.74 | 12.96  |
|           |                | 707.5           | 23.46                | 22.50 | 21.20 | 18.42  | 18.01                 | 17.05 | 15.75 | 12.97  |
|           |                | 700.5           | 23.38                | 22.46 | 21.14 | 18.33  | 17.93                 | 17.01 | 15.69 | 12.88  |
|           | 50% RB mid     | 714.5           | 22.43                | 21.50 | 20.43 | 18.37  | 16.98                 | 16.05 | 14.98 | 12.92  |
|           |                | 707.5           | 22.42                | 21.51 | 20.43 | 18.40  | 16.97                 | 16.06 | 14.98 | 12.95  |
|           |                | 700.5           | 22.45                | 21.54 | 20.32 | 18.38  | 17.00                 | 16.09 | 14.87 | 12.93  |
|           | 100% RB        | 714.5           | 22.47                | 21.43 | 20.40 | 18.37  | 17.02                 | 15.98 | 14.95 | 12.92  |
|           |                | 707.5           | 22.48                | 21.43 | 20.45 | 18.40  | 17.03                 | 15.98 | 15.00 | 12.95  |
|           |                | 700.5           | 22.49                | 21.45 | 20.40 | 18.38  | 17.04                 | 16.00 | 14.95 | 12.93  |
| 5MHz      | 1 RB high      | 713.5           | 23.57                | 22.56 | 21.71 | 18.58  | 18.12                 | 17.11 | 16.26 | 13.13  |
|           |                | 707.5           | 23.61                | 22.64 | 21.66 | 18.54  | 18.16                 | 17.19 | 16.21 | 13.09  |
|           |                | 701.5           | 23.54                | 22.60 | 21.65 | 18.58  | 18.09                 | 17.15 | 16.20 | 13.13  |
|           | 1 RB low       | 713.5           | 23.55                | 22.59 | 21.75 | 18.58  | 18.10                 | 17.14 | 16.30 | 13.13  |
|           |                | 707.5           | 23.63                | 22.67 | 21.71 | 18.57  | 18.18                 | 17.22 | 16.26 | 13.12  |
|           |                | 701.5           | 23.49                | 22.53 | 21.76 | 18.48  | 18.04                 | 17.08 | 16.31 | 13.03  |
|           | 50% RB mid     | 713.5           | 22.52                | 21.60 | 20.56 | 18.51  | 17.07                 | 16.15 | 15.11 | 13.06  |
|           |                | 707.5           | 22.51                | 21.62 | 20.61 | 18.54  | 17.06                 | 16.17 | 15.16 | 13.09  |
|           |                | 701.5           | 22.47                | 21.58 | 20.49 | 18.50  | 17.02                 | 16.13 | 15.04 | 13.05  |
|           | 100% RB        | 713.5           | 22.58                | 21.52 | 20.52 | 18.48  | 17.13                 | 16.07 | 15.07 | 13.03  |
|           |                | 707.5           | 22.58                | 21.50 | 20.58 | 18.53  | 17.13                 | 16.05 | 15.13 | 13.08  |
|           |                | 701.5           | 22.55                | 21.52 | 20.54 | 18.50  | 17.10                 | 16.07 | 15.09 | 13.05  |
| 10MHz     | 1 RB high      | 711             | 23.58                | 22.57 | 21.36 | 18.59  | 18.13                 | 17.12 | 15.91 | 13.14  |
|           |                | 707.5           | 23.60                | 22.59 | 21.41 | 18.57  | 18.15                 | 17.14 | 15.96 | 13.12  |

|  |               |       |       |       |       |       |       |       |       |       |
|--|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|  |               | 704   | 23.47 | 22.54 | 21.38 | 18.53 | 18.02 | 17.09 | 15.93 | 13.08 |
|  | 1 RB low      | 711   | 23.52 | 22.59 | 21.24 | 18.56 | 18.07 | 17.14 | 15.79 | 13.11 |
|  |               | 707.5 | 23.53 | 22.52 | 21.26 | 18.53 | 18.08 | 17.07 | 15.81 | 13.08 |
|  |               | 704   | 23.40 | 22.50 | 21.19 | 18.42 | 17.95 | 17.05 | 15.74 | 12.97 |
|  | 50% RB<br>mid | 711   | 22.54 | 21.63 | 20.50 | 18.52 | 17.09 | 16.18 | 15.05 | 13.07 |
|  |               | 707.5 | 22.56 | 21.65 | 20.53 | 18.54 | 17.11 | 16.20 | 15.08 | 13.09 |
|  |               | 704   | 22.55 | 21.63 | 20.53 | 18.52 | 17.10 | 16.18 | 15.08 | 13.07 |
|  | 100% RB       | 711   | 22.57 | 21.58 | 20.47 | 18.43 | 17.12 | 16.13 | 15.02 | 12.98 |
|  |               | 707.5 | 22.59 | 21.62 | 20.53 | 18.49 | 17.14 | 16.17 | 15.08 | 13.04 |
|  |               | 704   | 22.53 | 21.56 | 20.46 | 18.43 | 17.08 | 16.11 | 15.01 | 12.98 |

**LTE Band 13-ERP**
**Limits:  $\leq 34.77\text{dBm}(3\text{W})$** 

| Bandwidth | RB size/offset | Frequency (MHz) | Conducted Power(dBm) |       |       |        | ERP(dBm)(Gt-Lc =-3.1) |       |       |        |
|-----------|----------------|-----------------|----------------------|-------|-------|--------|-----------------------|-------|-------|--------|
|           |                |                 | QPSK                 | 16QAM | 64QAM | 256QAM | QPSK                  | 16QAM | 64QAM | 256QAM |
| 5MHz      | 1 RB high      | 784.5           | 23.12                | 22.13 | 21.28 | 18.19  | 17.87                 | 16.88 | 16.03 | 12.94  |
|           |                | 782             | 23.13                | 22.16 | 21.31 | 18.19  | 17.88                 | 16.91 | 16.06 | 12.94  |
|           |                | 779.5           | 23.19                | 22.03 | 21.33 | 18.24  | 17.94                 | 16.78 | 16.08 | 12.99  |
|           | 1 RB low       | 784.5           | 23.20                | 22.21 | 21.32 | 18.23  | 17.95                 | 16.96 | 16.07 | 12.98  |
|           |                | 782             | 23.14                | 22.17 | 21.33 | 18.24  | 17.89                 | 16.92 | 16.08 | 12.99  |
|           |                | 779.5           | 23.20                | 22.15 | 21.40 | 18.18  | 17.95                 | 16.90 | 16.15 | 12.93  |
|           | 50% RB mid     | 784.5           | 22.04                | 21.17 | 20.21 | 18.18  | 16.79                 | 15.92 | 14.96 | 12.93  |
|           |                | 782             | 22.09                | 21.20 | 20.25 | 18.20  | 16.84                 | 15.95 | 15.00 | 12.95  |
|           |                | 779.5           | 22.12                | 21.18 | 20.25 | 18.23  | 16.87                 | 15.93 | 15.00 | 12.98  |
|           | 100% RB        | 784.5           | 22.11                | 21.07 | 20.17 | 18.15  | 16.86                 | 15.82 | 14.92 | 12.90  |
|           |                | 782             | 22.15                | 21.09 | 20.19 | 18.16  | 16.90                 | 15.84 | 14.94 | 12.91  |
|           |                | 779.5           | 22.15                | 21.11 | 20.22 | 18.21  | 16.90                 | 15.86 | 14.97 | 12.96  |
| 10MHz     | 1 RB high      | 782             | 23.16                | 22.12 | 21.05 | 18.20  | 17.91                 | 16.87 | 15.80 | 12.95  |
|           | 1 RB low       | 782             | 23.10                | 22.22 | 21.19 | 18.18  | 17.85                 | 16.97 | 15.94 | 12.93  |
|           | 50% RB mid     | 782             | 22.16                | 21.29 | 20.20 | 18.24  | 16.91                 | 16.04 | 14.95 | 12.99  |
|           | 100% RB        | 782             | 22.16                | 21.16 | 20.12 | 18.09  | 16.91                 | 15.91 | 14.87 | 12.84  |

**LTE Band 14-ERP**
**Limits:  $\leq 34.77\text{dBm}(3\text{W})$** 

| Bandwidth | RB size/offset | Frequency (MHz) | Conducted Power(dBm) |       |       |        | ERP(dBm)(Gt-Lc =-2.8) |       |       |        |
|-----------|----------------|-----------------|----------------------|-------|-------|--------|-----------------------|-------|-------|--------|
|           |                |                 | QPSK                 | 16QAM | 64QAM | 256QAM | QPSK                  | 16QAM | 64QAM | 256QAM |
| 5MHz      | 1 RB high      | 795.5           | 23.59                | 22.68 | 21.84 | 18.72  | 18.64                 | 17.73 | 16.89 | 13.77  |
|           |                | 793             | 23.58                | 22.73 | 21.85 | 18.72  | 18.63                 | 17.78 | 16.90 | 13.77  |
|           |                | 790.5           | 23.60                | 22.77 | 21.66 | 18.39  | 18.65                 | 17.82 | 16.71 | 13.44  |
|           | 1 RB low       | 795.5           | 23.62                | 22.75 | 21.87 | 18.79  | 18.67                 | 17.80 | 16.92 | 13.84  |
|           |                | 793             | 23.64                | 22.72 | 21.89 | 18.69  | 18.69                 | 17.77 | 16.94 | 13.74  |
|           |                | 790.5           | 23.66                | 22.86 | 21.61 | 18.45  | 18.71                 | 17.91 | 16.66 | 13.50  |
|           | 50% RB mid     | 795.5           | 22.69                | 21.73 | 20.77 | 18.69  | 17.74                 | 16.78 | 15.82 | 13.74  |
|           |                | 793             | 22.70                | 21.80 | 20.77 | 18.74  | 17.75                 | 16.85 | 15.82 | 13.79  |
|           |                | 790.5           | 22.71                | 21.81 | 20.72 | 18.75  | 17.76                 | 16.86 | 15.77 | 13.80  |
|           | 100% RB        | 795.5           | 22.71                | 21.66 | 20.67 | 18.64  | 17.76                 | 16.71 | 15.72 | 13.69  |
|           |                | 793             | 22.74                | 21.69 | 20.72 | 18.69  | 17.79                 | 16.74 | 15.77 | 13.74  |
|           |                | 790.5           | 22.79                | 21.75 | 20.76 | 18.74  | 17.84                 | 16.80 | 15.81 | 13.79  |
| 10MHz     | 1 RB high      | 793             | 23.58                | 22.78 | 21.89 | 19.11  | 18.63                 | 17.83 | 16.94 | 14.16  |
|           | 1 RB low       | 793             | 23.70                | 22.82 | 21.46 | 18.83  | 18.75                 | 17.87 | 16.51 | 13.88  |
|           | 50% RB mid     | 793             | 22.76                | 21.86 | 20.77 | 18.79  | 17.81                 | 16.91 | 15.82 | 13.84  |
|           | 100% RB        | 793             | 22.78                | 21.79 | 20.71 | 18.70  | 17.83                 | 16.84 | 15.76 | 13.75  |

**LTE Band 25-EIRP**  
**Limits:  $\leq 33\text{dBm}(2\text{W})$**

| Bandwidth | RB size/offset | Frequency (MHz) | Conducted Power(dBm) |       |       |        | ERP(dBm)(Gt-Lc =-1.6) |       |       |        |
|-----------|----------------|-----------------|----------------------|-------|-------|--------|-----------------------|-------|-------|--------|
|           |                |                 | QPSK                 | 16QAM | 64QAM | 256QAM | QPSK                  | 16QAM | 64QAM | 256QAM |
| 1.4MHz    | 1 RB high      | 1914.3          | 23.48                | 22.63 | 21.45 | 18.53  | 21.88                 | 21.03 | 19.85 | 16.93  |
|           |                | 1882.5          | 23.62                | 22.76 | 21.54 | 18.61  | 22.02                 | 21.16 | 19.94 | 17.01  |
|           |                | 1850.7          | 23.55                | 22.60 | 21.96 | 18.67  | 21.95                 | 21.00 | 20.36 | 17.07  |
|           | 1 RB low       | 1914.3          | 23.47                | 22.65 | 21.30 | 18.50  | 21.87                 | 21.05 | 19.70 | 16.90  |
|           |                | 1882.5          | 23.61                | 22.78 | 21.42 | 18.58  | 22.01                 | 21.18 | 19.82 | 16.98  |
|           |                | 1850.7          | 23.56                | 22.60 | 21.90 | 18.68  | 21.96                 | 21.00 | 20.30 | 17.08  |
|           | 50% RB mid     | 1914.3          | 23.60                | 22.70 | 21.40 | 18.50  | 22.00                 | 21.10 | 19.80 | 16.90  |
|           |                | 1882.5          | 23.64                | 22.77 | 21.49 | 18.61  | 22.04                 | 21.17 | 19.89 | 17.01  |
|           |                | 1850.7          | 23.65                | 22.79 | 21.52 | 18.55  | 22.05                 | 21.19 | 19.92 | 16.95  |
|           | 100% RB        | 1914.3          | 22.54                | 21.71 | 20.49 | 18.54  | 20.94                 | 20.11 | 18.89 | 16.94  |
|           |                | 1882.5          | 22.57                | 21.75 | 20.56 | 18.60  | 20.97                 | 20.15 | 18.96 | 17.00  |
|           |                | 1850.7          | 22.62                | 21.84 | 20.57 | 18.65  | 21.02                 | 20.24 | 18.97 | 17.05  |
| 3MHz      | 1 RB high      | 1913.5          | 23.51                | 22.55 | 21.44 | 18.54  | 21.91                 | 20.95 | 19.84 | 16.94  |
|           |                | 1882.5          | 23.57                | 22.62 | 21.49 | 18.62  | 21.97                 | 21.02 | 19.89 | 17.02  |
|           |                | 1851.5          | 23.58                | 22.60 | 21.50 | 18.64  | 21.98                 | 21.00 | 19.90 | 17.04  |
|           | 1 RB low       | 1913.5          | 23.49                | 22.54 | 21.28 | 18.50  | 21.89                 | 20.94 | 19.68 | 16.90  |
|           |                | 1882.5          | 23.62                | 22.66 | 21.35 | 18.64  | 22.02                 | 21.06 | 19.75 | 17.04  |
|           |                | 1851.5          | 23.62                | 22.65 | 21.38 | 18.63  | 22.02                 | 21.05 | 19.78 | 17.03  |
|           | 50% RB mid     | 1913.5          | 22.51                | 21.57 | 20.61 | 18.53  | 20.91                 | 19.97 | 19.01 | 16.93  |
|           |                | 1882.5          | 22.56                | 21.68 | 20.67 | 18.62  | 20.96                 | 20.08 | 19.07 | 17.02  |
|           |                | 1851.5          | 22.58                | 21.69 | 20.56 | 18.65  | 20.98                 | 20.09 | 18.96 | 17.05  |
|           | 100% RB        | 1913.5          | 22.53                | 21.51 | 20.47 | 18.45  | 20.93                 | 19.91 | 18.87 | 16.85  |
|           |                | 1882.5          | 22.58                | 21.54 | 20.62 | 18.60  | 20.98                 | 19.94 | 19.02 | 17.00  |
|           |                | 1851.5          | 22.63                | 21.60 | 20.65 | 18.61  | 21.03                 | 20.00 | 19.05 | 17.01  |
| 5MHz      | 1 RB high      | 1912.5          | 23.69                | 22.70 | 21.81 | 18.67  | 22.09                 | 21.10 | 20.21 | 17.07  |
|           |                | 1882.5          | 23.68                | 22.71 | 21.82 | 18.75  | 22.08                 | 21.11 | 20.22 | 17.15  |
|           |                | 1852.5          | 23.69                | 22.72 | 21.82 | 18.74  | 22.09                 | 21.12 | 20.22 | 17.14  |
|           | 1 RB low       | 1912.5          | 23.63                | 22.64 | 21.86 | 18.69  | 22.03                 | 21.04 | 20.26 | 17.09  |
|           |                | 1882.5          | 23.71                | 22.74 | 21.88 | 18.74  | 22.11                 | 21.14 | 20.28 | 17.14  |
|           |                | 1852.5          | 23.75                | 22.80 | 21.89 | 18.77  | 22.15                 | 21.20 | 20.29 | 17.17  |
|           | 50% RB mid     | 1912.5          | 22.55                | 21.65 | 20.73 | 18.66  | 20.95                 | 20.05 | 19.13 | 17.06  |
|           |                | 1882.5          | 22.64                | 21.75 | 20.80 | 18.73  | 21.04                 | 20.15 | 19.20 | 17.13  |
|           |                | 1852.5          | 22.61                | 21.73 | 20.71 | 18.75  | 21.01                 | 20.13 | 19.11 | 17.15  |
|           | 100% RB        | 1912.5          | 22.63                | 21.57 | 20.66 | 18.66  | 21.03                 | 19.97 | 19.06 | 17.06  |
|           |                | 1882.5          | 22.68                | 21.61 | 20.68 | 18.68  | 21.08                 | 20.01 | 19.08 | 17.08  |
|           |                | 1852.5          | 22.69                | 21.63 | 20.73 | 18.71  | 21.09                 | 20.03 | 19.13 | 17.11  |
| 10MHz     | 1 RB high      | 1910            | 23.60                | 22.68 | 21.52 | 18.71  | 22.00                 | 21.08 | 19.92 | 17.11  |
|           |                | 1882.5          | 23.67                | 22.70 | 21.61 | 18.79  | 22.07                 | 21.10 | 20.01 | 17.19  |

|       |            |            |        |       |       |       |       |       |       |       |
|-------|------------|------------|--------|-------|-------|-------|-------|-------|-------|-------|
|       |            | 1855       | 23.70  | 22.69 | 21.58 | 18.77 | 22.10 | 21.09 | 19.98 | 17.17 |
|       |            | 1 RB low   | 1910   | 23.64 | 22.68 | 21.35 | 18.71 | 22.04 | 21.08 | 17.11 |
|       |            |            | 1882.5 | 23.63 | 22.67 | 21.47 | 18.73 | 22.03 | 21.07 | 17.13 |
|       |            |            | 1855   | 23.70 | 22.68 | 21.44 | 18.78 | 22.10 | 21.08 | 17.18 |
|       |            | 50% RB mid | 1910   | 22.57 | 21.69 | 20.62 | 18.68 | 20.97 | 20.09 | 17.08 |
|       |            |            | 1882.5 | 22.65 | 21.74 | 20.74 | 18.75 | 21.05 | 20.14 | 17.15 |
|       |            |            | 1855   | 22.65 | 21.67 | 20.72 | 18.72 | 21.05 | 20.07 | 17.12 |
|       |            | 100% RB    | 1910   | 22.63 | 21.68 | 20.67 | 18.63 | 21.03 | 20.08 | 17.03 |
|       |            |            | 1882.5 | 22.64 | 21.67 | 20.68 | 18.67 | 21.04 | 20.07 | 17.07 |
|       |            |            | 1855   | 22.68 | 21.69 | 20.68 | 18.66 | 21.08 | 20.09 | 17.06 |
| 15MHz | 1 RB high  | 1907.5     | 23.59  | 22.94 | 22.01 | 18.94 | 21.99 | 21.34 | 20.41 | 17.34 |
|       |            | 1882.5     | 23.65  | 23.06 | 22.06 | 18.98 | 22.05 | 21.46 | 20.46 | 17.38 |
|       |            | 1857.5     | 23.66  | 23.06 | 22.09 | 19.02 | 22.06 | 21.46 | 20.49 | 17.42 |
|       | 1 RB low   | 1907.5     | 23.57  | 22.98 | 22.01 | 18.95 | 21.97 | 21.38 | 20.41 | 17.35 |
|       |            | 1882.5     | 23.62  | 23.02 | 22.02 | 18.98 | 22.02 | 21.42 | 20.42 | 17.38 |
|       |            | 1857.5     | 23.70  | 23.08 | 22.03 | 19.06 | 22.10 | 21.48 | 20.43 | 17.46 |
|       | 50% RB mid | 1907.5     | 22.61  | 21.63 | 20.65 | 18.68 | 21.01 | 20.03 | 19.05 | 17.08 |
|       |            | 1882.5     | 22.66  | 21.69 | 20.67 | 18.72 | 21.06 | 20.09 | 19.07 | 17.12 |
|       |            | 1857.5     | 22.63  | 21.65 | 20.67 | 18.67 | 21.03 | 20.05 | 19.07 | 17.07 |
|       | 100% RB    | 1907.5     | 22.64  | 21.67 | 20.71 | 18.72 | 21.04 | 20.07 | 19.11 | 17.12 |
|       |            | 1882.5     | 22.66  | 21.69 | 20.71 | 18.72 | 21.06 | 20.09 | 19.11 | 17.12 |
|       |            | 1857.5     | 22.71  | 21.71 | 20.75 | 18.76 | 21.11 | 20.11 | 19.15 | 17.16 |
| 20MHz | 1 RB high  | 1905       | 23.60  | 23.14 | 21.55 | 18.65 | 22.00 | 21.54 | 19.95 | 17.05 |
|       |            | 1882.5     | 23.65  | 23.29 | 21.59 | 18.68 | 22.05 | 21.69 | 19.99 | 17.08 |
|       |            | 1860       | 23.64  | 23.29 | 21.58 | 18.69 | 22.04 | 21.69 | 19.98 | 17.09 |
|       | 1 RB low   | 1905       | 23.66  | 23.27 | 21.80 | 18.72 | 22.06 | 21.67 | 20.20 | 17.12 |
|       |            | 1882.5     | 23.62  | 23.28 | 21.93 | 18.64 | 22.02 | 21.68 | 20.33 | 17.04 |
|       |            | 1860       | 23.66  | 23.27 | 21.88 | 18.68 | 22.06 | 21.67 | 20.28 | 17.08 |
|       | 50% RB mid | 1905       | 22.64  | 21.69 | 20.69 | 18.75 | 21.04 | 20.09 | 19.09 | 17.15 |
|       |            | 1882.5     | 22.70  | 21.72 | 20.73 | 18.77 | 21.10 | 20.12 | 19.13 | 17.17 |
|       |            | 1860       | 22.72  | 21.74 | 20.74 | 18.76 | 21.12 | 20.14 | 19.14 | 17.16 |
|       | 100% RB    | 1905       | 22.62  | 21.64 | 20.69 | 18.65 | 21.02 | 20.04 | 19.09 | 17.05 |
|       |            | 1882.5     | 22.68  | 21.68 | 20.71 | 18.69 | 21.08 | 20.08 | 19.11 | 17.09 |
|       |            | 1860       | 22.77  | 21.76 | 20.76 | 18.76 | 21.17 | 20.16 | 19.16 | 17.16 |



**LTE Band 26(814MHz~824MHz)-ERP**  
**Limits:  $\leq 50\text{dBm}(100\text{W})$**

| Bandwidth | RB size/offset | Frequency (MHz) | Conducted Power(dBm) |       |       |        | ERP(dBm)(Gt-Lc =-3.8) |       |       |        |
|-----------|----------------|-----------------|----------------------|-------|-------|--------|-----------------------|-------|-------|--------|
|           |                |                 | QPSK                 | 16QAM | 64QAM | 256QAM | QPSK                  | 16QAM | 64QAM | 256QAM |
| 1.4MHz    | 1 RB high      | 823.3           | 23.31                | 22.82 | 21.99 | 18.72  | 17.36                 | 16.87 | 16.04 | 12.77  |
|           |                | 819             | 23.27                | 22.53 | 21.49 | 18.55  | 17.32                 | 16.58 | 15.54 | 12.60  |
|           |                | 814.7           | 23.20                | 22.59 | 21.83 | 18.59  | 17.25                 | 16.64 | 15.88 | 12.64  |
|           | 1 RB low       | 823.3           | 23.29                | 22.83 | 21.93 | 18.73  | 17.34                 | 16.88 | 15.98 | 12.78  |
|           |                | 819             | 23.23                | 22.53 | 21.30 | 18.54  | 17.28                 | 16.58 | 15.35 | 12.59  |
|           |                | 814.7           | 23.17                | 22.44 | 21.83 | 18.60  | 17.22                 | 16.49 | 15.88 | 12.65  |
|           | 50% RB mid     | 823.3           | 23.31                | 22.77 | 21.74 | 18.62  | 17.36                 | 16.82 | 15.79 | 12.67  |
|           |                | 819             | 23.36                | 22.66 | 21.67 | 18.56  | 17.41                 | 16.71 | 15.72 | 12.61  |
|           |                | 814.7           | 23.40                | 22.66 | 21.79 | 18.53  | 17.45                 | 16.71 | 15.84 | 12.58  |
|           | 100% RB        | 823.3           | 22.60                | 21.50 | 20.66 | 18.59  | 16.65                 | 15.55 | 14.71 | 12.64  |
|           |                | 819             | 22.51                | 21.76 | 20.59 | 18.54  | 16.56                 | 15.81 | 14.64 | 12.59  |
|           |                | 814.7           | 22.52                | 21.43 | 20.55 | 18.47  | 16.57                 | 15.48 | 14.60 | 12.52  |
| 3MHz      | 1 RB high      | 822.5           | 23.27                | 22.62 | 21.41 | 18.62  | 17.32                 | 16.67 | 15.46 | 12.67  |
|           |                | 819             | 23.23                | 22.51 | 21.44 | 18.56  | 17.28                 | 16.56 | 15.49 | 12.61  |
|           |                | 815.5           | 23.31                | 22.50 | 21.39 | 18.51  | 17.36                 | 16.55 | 15.44 | 12.56  |
|           | 1 RB low       | 822.5           | 23.26                | 22.66 | 21.28 | 18.58  | 17.31                 | 16.71 | 15.33 | 12.63  |
|           |                | 819             | 23.28                | 22.49 | 21.24 | 18.47  | 17.33                 | 16.54 | 15.29 | 12.52  |
|           |                | 815.5           | 23.30                | 22.50 | 21.20 | 18.49  | 17.35                 | 16.55 | 15.25 | 12.54  |
|           | 50% RB mid     | 822.5           | 22.58                | 21.67 | 20.67 | 18.65  | 16.63                 | 15.72 | 14.72 | 12.70  |
|           |                | 819             | 22.51                | 21.59 | 20.59 | 18.53  | 16.56                 | 15.64 | 14.64 | 12.58  |
|           |                | 815.5           | 22.45                | 21.57 | 20.42 | 18.55  | 16.50                 | 15.62 | 14.47 | 12.60  |
|           | 100% RB        | 822.5           | 22.64                | 21.60 | 20.64 | 18.61  | 16.69                 | 15.65 | 14.69 | 12.66  |
|           |                | 819             | 22.56                | 21.51 | 20.54 | 18.51  | 16.61                 | 15.56 | 14.59 | 12.56  |
|           |                | 815.5           | 22.53                | 21.52 | 20.54 | 18.52  | 16.58                 | 15.57 | 14.59 | 12.57  |
| 5MHz      | 1 RB high      | 821.5           | 23.45                | 22.67 | 21.82 | 18.74  | 17.50                 | 16.72 | 15.87 | 12.79  |
|           |                | 819             | 23.45                | 22.68 | 21.93 | 18.74  | 17.50                 | 16.73 | 15.98 | 12.79  |
|           |                | 816.5           | 23.43                | 22.67 | 21.85 | 18.70  | 17.48                 | 16.72 | 15.90 | 12.75  |
|           | 1 RB low       | 821.5           | 23.47                | 22.56 | 21.88 | 18.61  | 17.52                 | 16.61 | 15.93 | 12.66  |
|           |                | 819             | 23.51                | 22.56 | 21.90 | 18.62  | 17.56                 | 16.61 | 15.95 | 12.67  |
|           |                | 816.5           | 23.50                | 22.60 | 21.87 | 18.67  | 17.55                 | 16.65 | 15.92 | 12.72  |
|           | 50% RB mid     | 821.5           | 22.65                | 21.75 | 20.85 | 18.74  | 16.70                 | 15.80 | 14.90 | 12.79  |
|           |                | 819             | 22.61                | 21.67 | 20.79 | 18.64  | 16.66                 | 15.72 | 14.84 | 12.69  |
|           |                | 816.5           | 22.56                | 21.67 | 20.65 | 18.64  | 16.61                 | 15.72 | 14.70 | 12.69  |
|           | 100% RB        | 821.5           | 22.70                | 21.67 | 20.72 | 18.69  | 16.75                 | 15.72 | 14.77 | 12.74  |
|           |                | 819             | 22.66                | 21.64 | 20.68 | 18.64  | 16.71                 | 15.69 | 14.73 | 12.69  |
|           |                | 816.5           | 22.65                | 21.61 | 20.66 | 18.62  | 16.70                 | 15.66 | 14.71 | 12.67  |
| 10MHz     | 1 RB high      | 819             | 23.46                | 22.70 | 21.51 | 18.76  | 17.51                 | 16.75 | 15.56 | 12.81  |
|           | 1 RB low       | 819             | 23.50                | 22.57 | 21.41 | 18.61  | 17.55                 | 16.62 | 15.46 | 12.66  |

|  |               |     |       |       |       |       |       |       |       |       |
|--|---------------|-----|-------|-------|-------|-------|-------|-------|-------|-------|
|  | 50% RB<br>mid | 819 | 22.73 | 21.74 | 20.80 | 18.73 | 16.78 | 15.79 | 14.85 | 12.78 |
|  | 100% RB       | 819 | 22.73 | 21.76 | 20.72 | 18.70 | 16.78 | 15.81 | 14.77 | 12.75 |

**LTE Band 26(824MHz-849MHz) -ERP**  
**Limits:  $\leq 38.45\text{dBm}(7\text{W})$**

| Bandwidth | RB size/offset | Frequency (MHz) | Conducted Power(dBm) |       |       |        | ERP(dBm)(Gt-Lc =-3.8) |       |       |        |
|-----------|----------------|-----------------|----------------------|-------|-------|--------|-----------------------|-------|-------|--------|
|           |                |                 | QPSK                 | 16QAM | 64QAM | 256QAM | QPSK                  | 16QAM | 64QAM | 256QAM |
| 1.4MHz    | 1 RB high      | 848.3           | 23.15                | 22.59 | 21.37 | 18.50  | 17.20                 | 16.64 | 15.42 | 12.55  |
|           |                | 836.5           | 23.31                | 22.58 | 21.61 | 18.36  | 17.36                 | 16.63 | 15.66 | 12.41  |
|           |                | 824.7           | 23.19                | 22.60 | 21.99 | 18.72  | 17.24                 | 16.65 | 16.04 | 12.77  |
|           | 1 RB low       | 848.3           | 23.13                | 22.54 | 21.38 | 18.47  | 17.18                 | 16.59 | 15.43 | 12.52  |
|           |                | 836.5           | 23.33                | 22.67 | 21.52 | 18.39  | 17.38                 | 16.72 | 15.57 | 12.44  |
|           |                | 824.7           | 23.19                | 22.60 | 21.93 | 18.69  | 17.24                 | 16.65 | 15.98 | 12.74  |
|           | 50% RB mid     | 848.3           | 23.22                | 22.62 | 21.74 | 18.56  | 17.27                 | 16.67 | 15.79 | 12.61  |
|           |                | 836.5           | 23.37                | 22.68 | 21.70 | 18.50  | 17.42                 | 16.73 | 15.75 | 12.55  |
|           |                | 824.7           | 23.35                | 22.68 | 21.63 | 18.57  | 17.40                 | 16.73 | 15.68 | 12.62  |
|           | 100% RB        | 848.3           | 22.46                | 21.40 | 20.58 | 18.51  | 16.51                 | 15.45 | 14.63 | 12.56  |
|           |                | 836.5           | 22.51                | 21.38 | 20.75 | 18.46  | 16.56                 | 15.43 | 14.80 | 12.51  |
|           |                | 824.7           | 22.52                | 21.70 | 20.65 | 18.52  | 16.57                 | 15.75 | 14.70 | 12.57  |
| 3MHz      | 1 RB high      | 847.5           | 23.15                | 22.45 | 21.28 | 18.48  | 17.20                 | 16.50 | 15.33 | 12.53  |
|           |                | 836.5           | 23.36                | 22.45 | 21.33 | 18.51  | 17.41                 | 16.50 | 15.38 | 12.56  |
|           |                | 825.5           | 23.31                | 22.56 | 21.41 | 18.62  | 17.36                 | 16.61 | 15.46 | 12.67  |
|           | 1 RB low       | 847.5           | 23.22                | 22.47 | 21.28 | 18.48  | 17.27                 | 16.52 | 15.33 | 12.53  |
|           |                | 836.5           | 23.37                | 22.49 | 21.30 | 18.52  | 17.42                 | 16.54 | 15.35 | 12.57  |
|           |                | 825.5           | 23.29                | 22.63 | 21.39 | 18.59  | 17.34                 | 16.68 | 15.44 | 12.64  |
|           | 50% RB mid     | 847.5           | 22.50                | 21.55 | 20.59 | 18.52  | 16.55                 | 15.60 | 14.64 | 12.57  |
|           |                | 836.5           | 22.48                | 21.58 | 20.56 | 18.53  | 16.53                 | 15.63 | 14.61 | 12.58  |
|           |                | 825.5           | 22.55                | 21.63 | 20.53 | 18.58  | 16.60                 | 15.68 | 14.58 | 12.63  |
|           | 100% RB        | 847.5           | 22.52                | 21.50 | 20.44 | 18.49  | 16.57                 | 15.55 | 14.49 | 12.54  |
|           |                | 836.5           | 22.55                | 21.48 | 20.54 | 18.52  | 16.60                 | 15.53 | 14.59 | 12.57  |
|           |                | 825.5           | 22.58                | 21.55 | 20.62 | 18.58  | 16.63                 | 15.60 | 14.67 | 12.63  |
| 5MHz      | 1 RB high      | 846.5           | 23.44                | 22.54 | 21.67 | 18.63  | 17.49                 | 16.59 | 15.72 | 12.68  |
|           |                | 836.5           | 23.59                | 22.58 | 21.83 | 18.68  | 17.64                 | 16.63 | 15.88 | 12.73  |
|           |                | 826.5           | 23.64                | 22.77 | 22.00 | 18.84  | 17.69                 | 16.82 | 16.05 | 12.89  |
|           | 1 RB low       | 846.5           | 23.47                | 22.52 | 21.81 | 18.58  | 17.52                 | 16.57 | 15.86 | 12.63  |
|           |                | 836.5           | 23.65                | 22.63 | 21.85 | 18.73  | 17.70                 | 16.68 | 15.90 | 12.78  |
|           |                | 826.5           | 23.52                | 22.74 | 22.02 | 18.78  | 17.57                 | 16.79 | 16.07 | 12.83  |
|           | 50% RB mid     | 846.5           | 22.55                | 21.63 | 20.72 | 18.60  | 16.60                 | 15.68 | 14.77 | 12.65  |
|           |                | 836.5           | 22.59                | 21.68 | 20.70 | 18.65  | 16.64                 | 15.73 | 14.75 | 12.70  |
|           |                | 826.5           | 22.63                | 21.74 | 20.75 | 18.71  | 16.68                 | 15.79 | 14.80 | 12.76  |
|           | 100% RB        | 846.5           | 22.63                | 21.57 | 20.64 | 18.61  | 16.68                 | 15.62 | 14.69 | 12.66  |
|           |                | 836.5           | 22.64                | 21.57 | 20.65 | 18.61  | 16.69                 | 15.62 | 14.70 | 12.66  |
|           |                | 826.5           | 22.70                | 21.64 | 20.71 | 18.69  | 16.75                 | 15.69 | 14.76 | 12.74  |
| 10MHz     | 1 RB high      | 844             | 23.35                | 22.55 | 21.30 | 18.64  | 17.40                 | 16.60 | 15.35 | 12.69  |
|           |                | 836.5           | 23.53                | 22.56 | 21.51 | 18.66  | 17.58                 | 16.61 | 15.56 | 12.71  |

|       |            |       |       |       |       |       |       |       |       |       |
|-------|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|       |            | 829   | 23.57 | 22.65 | 21.44 | 18.69 | 17.62 | 16.70 | 15.49 | 12.74 |
|       |            | 844   | 23.54 | 22.56 | 21.38 | 18.61 | 17.59 | 16.61 | 15.43 | 12.66 |
|       |            | 836.5 | 23.62 | 22.74 | 21.42 | 18.78 | 17.67 | 16.79 | 15.47 | 12.83 |
|       |            | 829   | 23.40 | 22.67 | 21.47 | 18.67 | 17.45 | 16.72 | 15.52 | 12.72 |
|       |            | 844   | 22.58 | 21.65 | 20.61 | 18.60 | 16.63 | 15.70 | 14.66 | 12.65 |
|       |            | 836.5 | 22.65 | 21.76 | 20.70 | 18.70 | 16.70 | 15.81 | 14.75 | 12.75 |
|       |            | 829   | 22.76 | 21.84 | 20.80 | 18.80 | 16.81 | 15.89 | 14.85 | 12.85 |
|       |            | 844   | 22.59 | 21.62 | 20.58 | 18.55 | 16.64 | 15.67 | 14.63 | 12.60 |
|       |            | 836.5 | 22.67 | 21.70 | 20.64 | 18.63 | 16.72 | 15.75 | 14.69 | 12.68 |
|       |            | 829   | 22.74 | 21.79 | 20.75 | 18.70 | 16.79 | 15.84 | 14.80 | 12.75 |
|       |            | 841.5 | 23.38 | 22.83 | 21.97 | 18.88 | 17.43 | 16.88 | 16.02 | 12.93 |
|       |            | 836.5 | 23.49 | 22.84 | 21.91 | 18.80 | 17.54 | 16.89 | 15.96 | 12.85 |
| 15MHz | 1 RB high  | 831.5 | 23.54 | 22.90 | 21.96 | 18.84 | 17.59 | 16.95 | 16.01 | 12.89 |
|       |            | 841.5 | 23.54 | 22.94 | 21.91 | 18.95 | 17.59 | 16.99 | 15.96 | 13.00 |
|       |            | 836.5 | 23.61 | 23.00 | 21.92 | 18.98 | 17.66 | 17.05 | 15.97 | 13.03 |
|       | 1 RB low   | 831.5 | 23.42 | 22.97 | 21.90 | 18.97 | 17.47 | 17.02 | 15.95 | 13.02 |
|       |            | 841.5 | 22.54 | 21.57 | 20.54 | 18.58 | 16.59 | 15.62 | 14.59 | 12.63 |
|       |            | 836.5 | 22.58 | 21.62 | 20.58 | 18.62 | 16.63 | 15.67 | 14.63 | 12.67 |
|       | 50% RB mid | 831.5 | 22.63 | 21.70 | 20.63 | 18.70 | 16.68 | 15.75 | 14.68 | 12.75 |
|       |            | 841.5 | 22.58 | 21.61 | 20.63 | 18.61 | 16.63 | 15.66 | 14.68 | 12.66 |
|       |            | 836.5 | 22.64 | 21.64 | 20.66 | 18.65 | 16.69 | 15.69 | 14.71 | 12.70 |
|       | 100% RB    | 831.5 | 22.71 | 21.72 | 20.71 | 18.68 | 16.76 | 15.77 | 14.76 | 12.73 |

**LTE Band 30**
**Limits: ≤ 24dBm/5MHz**

| Bandwidth | Frequency (MHz) | Modulation | RB size/offset | Conducted Power (dBm/5MHz) | EIRP (dBm/5MHz) (Gt-Lc =-3.4) | Margin |
|-----------|-----------------|------------|----------------|----------------------------|-------------------------------|--------|
| 5MHz      | 2307.5          | QPSK       | 1 RB low       | 23.94                      | 20.54                         | 3.46   |
|           |                 |            | 1 RB high      | 23.99                      | 20.59                         | 3.41   |
|           |                 |            | 100% RB        | 21.96                      | 18.56                         | 5.44   |
|           |                 | 16QAM      | 1 RB low       | 22.94                      | 19.54                         | 4.46   |
|           |                 |            | 1 RB high      | 22.94                      | 19.54                         | 4.46   |
|           |                 |            | 100% RB        | 21.13                      | 17.73                         | 6.27   |
|           |                 | 64QAM      | 1 RB low       | 22.24                      | 18.84                         | 5.16   |
|           |                 |            | 1 RB high      | 22.28                      | 18.88                         | 5.12   |
|           |                 |            | 100% RB        | 20.12                      | 16.72                         | 7.28   |
|           |                 | 256QAM     | 1 RB low       | 19.12                      | 15.72                         | 8.28   |
|           |                 |            | 1 RB high      | 19.14                      | 15.74                         | 8.26   |
|           |                 |            | 100% RB        | 18.09                      | 14.69                         | 9.31   |
|           | 2310            | QPSK       | 1 RB low       | 23.89                      | 20.49                         | 3.51   |
|           |                 |            | 1 RB high      | 24.01                      | 20.61                         | 3.39   |
|           |                 |            | 100% RB        | 22.02                      | 18.62                         | 5.38   |
|           |                 | 16QAM      | 1 RB low       | 23.11                      | 19.71                         | 4.29   |
|           |                 |            | 1 RB high      | 23.12                      | 19.72                         | 4.28   |
|           |                 |            | 100% RB        | 21.22                      | 17.82                         | 6.18   |
|           |                 | 64QAM      | 1 RB low       | 22.34                      | 18.94                         | 5.06   |
|           |                 |            | 1 RB high      | 22.41                      | 19.01                         | 4.99   |
|           |                 |            | 100% RB        | 20.18                      | 16.78                         | 7.22   |
|           |                 | 256QAM     | 1 RB low       | 19.35                      | 15.95                         | 8.05   |
|           |                 |            | 1 RB high      | 19.3                       | 15.9                          | 8.1    |
|           |                 |            | 100% RB        | 18.14                      | 14.74                         | 9.26   |
|           | 2312.5          | QPSK       | 1 RB low       | 23.92                      | 20.52                         | 3.48   |
|           |                 |            | 1 RB high      | 23.86                      | 20.46                         | 3.54   |
|           |                 |            | 100% RB        | 22.03                      | 18.63                         | 5.37   |
|           |                 | 16QAM      | 1 RB low       | 23.13                      | 19.73                         | 4.27   |
|           |                 |            | 1 RB high      | 23.02                      | 19.62                         | 4.38   |
|           |                 |            | 100% RB        | 21.26                      | 17.86                         | 6.14   |
|           |                 | 64QAM      | 1 RB low       | 22.39                      | 18.99                         | 5.01   |
|           |                 |            | 1 RB high      | 22.29                      | 18.89                         | 5.11   |
|           |                 |            | 100% RB        | 20.22                      | 16.82                         | 7.18   |
|           |                 | 256QAM     | 1 RB low       | 19.35                      | 15.95                         | 8.05   |
|           |                 |            | 1 RB high      | 19.21                      | 15.81                         | 8.19   |
|           |                 |            | 100% RB        | 18.12                      | 14.72                         | 9.28   |
| 10MHz     | 2310            | QPSK       | 1 RB low       | 23.96                      | 20.56                         | 3.44   |

|  |  |        |           |       |       |       |
|--|--|--------|-----------|-------|-------|-------|
|  |  |        | 1 RB high | 23.93 | 20.53 | 3.47  |
|  |  |        | 100% RB   | 20.21 | 16.81 | 7.19  |
|  |  | 16QAM  | 1 RB low  | 23.15 | 19.75 | 4.25  |
|  |  |        | 1 RB high | 23.11 | 19.71 | 4.29  |
|  |  |        | 100% RB   | 19.36 | 15.96 | 8.04  |
|  |  | 64QAM  | 1 RB low  | 22.14 | 18.74 | 5.26  |
|  |  |        | 1 RB high | 22.19 | 18.79 | 5.21  |
|  |  |        | 100% RB   | 18.34 | 14.94 | 9.06  |
|  |  | 256QAM | 1 RB low  | 19.13 | 15.73 | 8.27  |
|  |  |        | 1 RB high | 19.1  | 15.7  | 8.3   |
|  |  |        | 100% RB   | 16.27 | 12.87 | 11.13 |

**LTE Band 41-EIRP**  
**Limits:  $\leq 33\text{dBm}(2\text{W})$**

| Bandwidth | RB size/offset | Frequency (MHz) | Conducted Power(dBm) |       |       |        | ERP(dBm)(Gt-Lc =-1.1) |       |       |        |
|-----------|----------------|-----------------|----------------------|-------|-------|--------|-----------------------|-------|-------|--------|
|           |                |                 | QPSK                 | 16QAM | 64QAM | 256QAM | QPSK                  | 16QAM | 64QAM | 256QAM |
| 5MHz      | 1 RB high      | 2687.5          | 25.14                | 24.35 | 23.99 | 20.59  | 24.04                 | 23.25 | 22.89 | 19.49  |
|           |                | 2593            | 25.63                | 24.82 | 24.22 | 20.82  | 24.53                 | 23.72 | 23.12 | 19.72  |
|           |                | 2498.5          | 25.44                | 24.29 | 23.89 | 20.50  | 24.34                 | 23.19 | 22.79 | 19.40  |
|           | 1 RB low       | 2687.5          | 25.12                | 24.30 | 23.85 | 20.63  | 24.02                 | 23.20 | 22.75 | 19.53  |
|           |                | 2593            | 25.61                | 24.77 | 24.10 | 20.78  | 24.51                 | 23.67 | 23.00 | 19.68  |
|           |                | 2498.5          | 25.37                | 24.25 | 23.78 | 20.43  | 24.27                 | 23.15 | 22.68 | 19.33  |
|           | 50% RB mid     | 2687.5          | 24.03                | 23.54 | 22.48 | 20.42  | 22.93                 | 22.44 | 21.38 | 19.32  |
|           |                | 2593            | 24.52                | 23.68 | 22.62 | 20.54  | 23.42                 | 22.58 | 21.52 | 19.44  |
|           |                | 2498.5          | 24.27                | 23.41 | 22.26 | 20.27  | 23.17                 | 22.31 | 21.16 | 19.17  |
|           | 100% RB        | 2687.5          | 24.07                | 23.45 | 22.38 | 20.38  | 22.97                 | 22.35 | 21.28 | 19.28  |
|           |                | 2593            | 24.56                | 23.60 | 22.52 | 20.52  | 23.46                 | 22.50 | 21.42 | 19.42  |
|           |                | 2498.5          | 24.27                | 23.35 | 22.26 | 20.26  | 23.17                 | 22.25 | 21.16 | 19.16  |
| 10MHz     | 1 RB high      | 2685            | 25.10                | 24.21 | 23.35 | 20.49  | 24.00                 | 23.11 | 22.25 | 19.39  |
|           |                | 2593            | 25.54                | 24.67 | 23.50 | 20.68  | 24.44                 | 23.57 | 22.40 | 19.58  |
|           |                | 2501            | 25.41                | 24.55 | 23.37 | 20.50  | 24.31                 | 23.45 | 22.27 | 19.40  |
|           | 1 RB low       | 2685            | 25.11                | 24.21 | 23.43 | 20.66  | 24.01                 | 23.11 | 22.33 | 19.56  |
|           |                | 2593            | 25.55                | 24.66 | 23.64 | 20.68  | 24.45                 | 23.56 | 22.54 | 19.58  |
|           |                | 2501            | 25.22                | 24.37 | 23.45 | 20.33  | 24.12                 | 23.27 | 22.35 | 19.23  |
|           | 50% RB mid     | 2685            | 24.06                | 23.49 | 22.40 | 20.41  | 22.96                 | 22.39 | 21.30 | 19.31  |
|           |                | 2593            | 24.53                | 23.60 | 22.47 | 20.53  | 23.43                 | 22.50 | 21.37 | 19.43  |
|           |                | 2501            | 24.39                | 23.36 | 22.31 | 20.28  | 23.29                 | 22.26 | 21.21 | 19.18  |
|           | 100% RB        | 2685            | 24.10                | 23.46 | 22.44 | 20.41  | 23.00                 | 22.36 | 21.34 | 19.31  |
|           |                | 2593            | 24.55                | 23.59 | 22.55 | 20.50  | 23.45                 | 22.49 | 21.45 | 19.40  |
|           |                | 2501            | 24.28                | 23.39 | 22.31 | 20.29  | 23.18                 | 22.29 | 21.21 | 19.19  |
| 15MHz     | 1 RB high      | 2682.5          | 25.15                | 24.32 | 23.68 | 20.57  | 24.05                 | 23.22 | 22.58 | 19.47  |
|           |                | 2593            | 25.61                | 24.77 | 23.85 | 20.77  | 24.51                 | 23.67 | 22.75 | 19.67  |
|           |                | 2503.5          | 25.48                | 24.63 | 23.70 | 20.66  | 24.38                 | 23.53 | 22.60 | 19.56  |
|           | 1 RB low       | 2682.5          | 25.23                | 24.38 | 23.61 | 20.85  | 24.13                 | 23.28 | 22.51 | 19.75  |
|           |                | 2593            | 25.60                | 24.76 | 23.82 | 20.81  | 24.50                 | 23.66 | 22.72 | 19.71  |
|           |                | 2503.5          | 25.27                | 24.40 | 23.72 | 20.44  | 24.17                 | 23.30 | 22.62 | 19.34  |
|           | 50% RB mid     | 2682.5          | 24.08                | 23.54 | 22.45 | 20.46  | 22.98                 | 22.44 | 21.35 | 19.36  |
|           |                | 2593            | 24.53                | 23.61 | 22.50 | 20.51  | 23.43                 | 22.51 | 21.40 | 19.41  |
|           |                | 2503.5          | 24.41                | 23.41 | 22.36 | 20.30  | 23.31                 | 22.31 | 21.26 | 19.20  |
|           | 100% RB        | 2682.5          | 24.12                | 23.53 | 22.53 | 20.53  | 23.02                 | 22.43 | 21.43 | 19.43  |
|           |                | 2593            | 24.54                | 23.56 | 22.59 | 20.54  | 23.44                 | 22.46 | 21.49 | 19.44  |
|           |                | 2503.5          | 24.39                | 23.39 | 22.40 | 20.35  | 23.29                 | 22.29 | 21.30 | 19.25  |
| 20MHz     | 1 RB high      | 2680            | 25.15                | 24.47 | 23.70 | 20.81  | 24.05                 | 23.37 | 22.60 | 19.71  |
|           |                | 2593            | 25.67                | 24.96 | 23.90 | 21.04  | 24.57                 | 23.86 | 22.80 | 19.94  |

|  |               |      |       |       |       |       |       |       |       |       |
|--|---------------|------|-------|-------|-------|-------|-------|-------|-------|-------|
|  |               | 2506 | 25.57 | 24.85 | 23.84 | 21.00 | 24.47 | 23.75 | 22.74 | 19.90 |
|  | 1 RB low      | 2680 | 25.22 | 24.53 | 23.59 | 21.02 | 24.12 | 23.43 | 22.49 | 19.92 |
|  |               | 2593 | 25.61 | 24.88 | 23.81 | 21.01 | 24.51 | 23.78 | 22.71 | 19.91 |
|  |               | 2506 | 25.25 | 24.57 | 23.76 | 20.63 | 24.15 | 23.47 | 22.66 | 19.53 |
|  | 50% RB<br>mid | 2680 | 24.09 | 23.65 | 22.45 | 20.52 | 22.99 | 22.55 | 21.35 | 19.42 |
|  |               | 2593 | 24.56 | 23.63 | 22.48 | 20.47 | 23.46 | 22.53 | 21.38 | 19.37 |
|  |               | 2506 | 24.51 | 23.49 | 22.54 | 20.42 | 23.41 | 22.39 | 21.44 | 19.32 |
|  | 100% RB       | 2680 | 24.15 | 23.58 | 22.55 | 20.50 | 23.05 | 22.48 | 21.45 | 19.40 |
|  |               | 2593 | 24.58 | 23.60 | 22.48 | 20.49 | 23.48 | 22.50 | 21.38 | 19.39 |
|  |               | 2506 | 24.43 | 23.43 | 22.42 | 20.41 | 23.33 | 22.33 | 21.32 | 19.31 |



**LTE Band 66-EIRP**  
**Limits:  $\leq 30\text{dBm}(1\text{W})$**

| Bandwidth | RB size/offset | Frequency (MHz) | Conducted Power(dBm) |       |       |        | ERP(dBm)(Gt-Lc = -2.6) |       |       |        |
|-----------|----------------|-----------------|----------------------|-------|-------|--------|------------------------|-------|-------|--------|
|           |                |                 | QPSK                 | 16QAM | 64QAM | 256QAM | QPSK                   | 16QAM | 64QAM | 256QAM |
| 1.4MHz    | 1 RB high      | 1779.3          | 23.30                | 22.32 | 21.22 | 18.29  | 20.70                  | 19.72 | 18.62 | 15.69  |
|           |                | 1745            | 23.32                | 22.35 | 21.25 | 18.33  | 20.72                  | 19.75 | 18.65 | 15.73  |
|           |                | 1710.7          | 23.26                | 22.38 | 21.64 | 18.37  | 20.66                  | 19.78 | 19.04 | 15.77  |
|           | 1 RB low       | 1779.3          | 23.28                | 22.29 | 21.09 | 18.28  | 20.68                  | 19.69 | 18.49 | 15.68  |
|           |                | 1745            | 23.30                | 22.33 | 21.14 | 18.36  | 20.70                  | 19.73 | 18.54 | 15.76  |
|           |                | 1710.7          | 23.27                | 22.41 | 21.04 | 18.26  | 20.67                  | 19.81 | 18.44 | 15.66  |
|           | 50% RB mid     | 1779.3          | 23.35                | 22.52 | 21.18 | 18.28  | 20.75                  | 19.92 | 18.58 | 15.68  |
|           |                | 1745            | 23.32                | 22.50 | 21.12 | 18.27  | 20.72                  | 19.90 | 18.52 | 15.67  |
|           |                | 1710.7          | 23.34                | 22.48 | 21.18 | 18.25  | 20.74                  | 19.88 | 18.58 | 15.65  |
|           | 100% RB        | 1779.3          | 22.32                | 21.22 | 20.21 | 18.29  | 19.72                  | 18.62 | 17.61 | 15.69  |
|           |                | 1745            | 22.34                | 21.23 | 20.22 | 18.27  | 19.74                  | 18.63 | 17.62 | 15.67  |
|           |                | 1710.7          | 22.27                | 21.45 | 20.32 | 18.26  | 19.67                  | 18.85 | 17.72 | 15.66  |
| 3MHz      | 1 RB high      | 1778.5          | 23.29                | 22.31 | 21.55 | 18.74  | 20.69                  | 19.71 | 18.95 | 16.14  |
|           |                | 1745            | 23.34                | 22.36 | 21.58 | 18.77  | 20.74                  | 19.76 | 18.98 | 16.17  |
|           |                | 1711.5          | 23.29                | 22.33 | 21.18 | 18.29  | 20.69                  | 19.73 | 18.58 | 15.69  |
|           | 1 RB low       | 1778.5          | 23.30                | 22.34 | 21.91 | 18.71  | 20.70                  | 19.74 | 19.31 | 16.11  |
|           |                | 1745            | 23.32                | 22.36 | 21.95 | 18.74  | 20.72                  | 19.76 | 19.35 | 16.14  |
|           |                | 1711.5          | 23.28                | 22.33 | 21.04 | 18.27  | 20.68                  | 19.73 | 18.44 | 15.67  |
|           | 50% RB mid     | 1778.5          | 22.27                | 21.35 | 20.38 | 18.29  | 19.67                  | 18.75 | 17.78 | 15.69  |
|           |                | 1745            | 22.27                | 21.34 | 20.34 | 18.27  | 19.67                  | 18.74 | 17.74 | 15.67  |
|           |                | 1711.5          | 22.29                | 21.33 | 20.25 | 18.24  | 19.69                  | 18.73 | 17.65 | 15.64  |
|           | 100% RB        | 1778.5          | 22.33                | 21.28 | 20.37 | 18.25  | 19.73                  | 18.68 | 17.77 | 15.65  |
|           |                | 1745            | 22.31                | 21.26 | 20.33 | 18.26  | 19.71                  | 18.66 | 17.73 | 15.66  |
|           |                | 1711.5          | 22.30                | 21.26 | 20.30 | 18.27  | 19.70                  | 18.66 | 17.70 | 15.67  |
| 5MHz      | 1 RB high      | 1777.5          | 23.47                | 22.49 | 21.57 | 18.43  | 20.87                  | 19.89 | 18.97 | 15.83  |
|           |                | 1745            | 23.43                | 22.46 | 21.57 | 18.44  | 20.83                  | 19.86 | 18.97 | 15.84  |
|           |                | 1712.5          | 23.42                | 22.43 | 21.55 | 18.48  | 20.82                  | 19.83 | 18.95 | 15.88  |
|           | 1 RB low       | 1777.5          | 23.41                | 22.44 | 21.60 | 18.42  | 20.81                  | 19.84 | 19.00 | 15.82  |
|           |                | 1745            | 23.42                | 22.46 | 21.62 | 18.44  | 20.82                  | 19.86 | 19.02 | 15.84  |
|           |                | 1712.5          | 23.40                | 22.42 | 21.61 | 18.45  | 20.80                  | 19.82 | 19.01 | 15.85  |
|           | 50% RB mid     | 1777.5          | 22.36                | 21.44 | 20.52 | 18.43  | 19.76                  | 18.84 | 17.92 | 15.83  |
|           |                | 1745            | 22.35                | 21.45 | 20.51 | 18.43  | 19.75                  | 18.85 | 17.91 | 15.83  |
|           |                | 1712.5          | 22.32                | 21.39 | 20.40 | 18.42  | 19.72                  | 18.79 | 17.80 | 15.82  |
|           | 100% RB        | 1777.5          | 22.40                | 21.35 | 20.43 | 18.41  | 19.80                  | 18.75 | 17.83 | 15.81  |
|           |                | 1745            | 22.41                | 21.33 | 20.41 | 18.39  | 19.81                  | 18.73 | 17.81 | 15.79  |
|           |                | 1712.5          | 22.38                | 21.32 | 20.41 | 18.39  | 19.78                  | 18.72 | 17.81 | 15.79  |
| 10MHz     | 1 RB high      | 1775            | 23.43                | 22.38 | 21.65 | 18.86  | 20.83                  | 19.78 | 19.05 | 16.26  |
|           |                | 1745            | 23.41                | 22.44 | 21.67 | 18.89  | 20.81                  | 19.84 | 19.07 | 16.29  |

|       |            |        |       |       |       |       |       |       |       |       |
|-------|------------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
|       |            | 1715   | 23.34 | 22.41 | 21.64 | 18.83 | 20.74 | 19.81 | 19.04 | 16.23 |
|       |            | 1775   | 23.37 | 22.41 | 21.62 | 18.84 | 20.77 | 19.81 | 19.02 | 16.24 |
|       |            | 1745   | 23.35 | 22.38 | 21.62 | 18.85 | 20.75 | 19.78 | 19.02 | 16.25 |
|       |            | 1715   | 23.32 | 22.34 | 21.57 | 18.80 | 20.72 | 19.74 | 18.97 | 16.20 |
|       |            | 1775   | 22.41 | 21.45 | 20.46 | 18.38 | 19.81 | 18.85 | 17.86 | 15.78 |
|       |            | 1745   | 22.37 | 21.42 | 20.42 | 18.35 | 19.77 | 18.82 | 17.82 | 15.75 |
|       |            | 1715   | 22.38 | 21.39 | 20.41 | 18.30 | 19.78 | 18.79 | 17.81 | 15.70 |
|       |            | 1775   | 22.43 | 21.45 | 20.42 | 18.41 | 19.83 | 18.85 | 17.82 | 15.81 |
|       |            | 1745   | 22.37 | 21.40 | 20.38 | 18.41 | 19.77 | 18.80 | 17.78 | 15.81 |
|       |            | 1715   | 22.36 | 21.40 | 20.36 | 18.40 | 19.76 | 18.80 | 17.76 | 15.80 |
|       |            | 1772.5 | 23.32 | 22.74 | 21.78 | 18.70 | 20.72 | 20.14 | 19.18 | 16.10 |
|       |            | 1745   | 23.40 | 22.80 | 21.81 | 18.74 | 20.80 | 20.20 | 19.21 | 16.14 |
| 15MHz | 1 RB high  | 1717.5 | 23.34 | 22.67 | 21.62 | 18.82 | 20.74 | 20.07 | 19.02 | 16.22 |
|       |            | 1772.5 | 23.30 | 22.70 | 21.75 | 18.68 | 20.70 | 20.10 | 19.15 | 16.08 |
|       |            | 1745   | 23.29 | 22.68 | 21.77 | 18.63 | 20.69 | 20.08 | 19.17 | 16.03 |
|       | 1 RB low   | 1717.5 | 23.32 | 22.74 | 21.89 | 18.83 | 20.72 | 20.14 | 19.29 | 16.23 |
|       |            | 1772.5 | 22.40 | 21.40 | 20.40 | 18.38 | 19.80 | 18.80 | 17.80 | 15.78 |
|       |            | 1745   | 22.38 | 21.37 | 20.37 | 18.37 | 19.78 | 18.77 | 17.77 | 15.77 |
|       | 50% RB mid | 1717.5 | 22.35 | 21.36 | 20.39 | 18.35 | 19.75 | 18.76 | 17.79 | 15.75 |
|       |            | 1772.5 | 22.43 | 21.44 | 20.47 | 18.47 | 19.83 | 18.84 | 17.87 | 15.87 |
|       |            | 1745   | 22.39 | 21.41 | 20.45 | 18.42 | 19.79 | 18.81 | 17.85 | 15.82 |
|       | 100% RB    | 1717.5 | 22.38 | 21.43 | 20.42 | 18.43 | 19.78 | 18.83 | 17.82 | 15.83 |
|       |            | 1770   | 23.42 | 22.99 | 21.24 | 18.38 | 20.82 | 20.39 | 18.64 | 15.78 |
|       |            | 1745   | 23.46 | 23.09 | 21.32 | 18.42 | 20.86 | 20.49 | 18.72 | 15.82 |
|       |            | 1720   | 23.33 | 22.92 | 21.20 | 18.28 | 20.73 | 20.32 | 18.60 | 15.68 |
| 20MHz | 1 RB high  | 1770   | 23.33 | 22.88 | 21.55 | 18.33 | 20.73 | 20.28 | 18.95 | 15.73 |
|       |            | 1745   | 23.24 | 22.85 | 21.68 | 18.27 | 20.64 | 20.25 | 19.08 | 15.67 |
|       |            | 1720   | 23.28 | 22.94 | 21.61 | 18.24 | 20.68 | 20.34 | 19.01 | 15.64 |
|       | 1 RB low   | 1770   | 22.38 | 21.41 | 20.42 | 18.46 | 19.78 | 18.81 | 17.82 | 15.86 |
|       |            | 1745   | 22.46 | 21.42 | 20.45 | 18.45 | 19.86 | 18.82 | 17.85 | 15.85 |
|       |            | 1720   | 22.48 | 21.39 | 20.46 | 18.44 | 19.88 | 18.79 | 17.86 | 15.84 |
|       | 50% RB mid | 1770   | 22.39 | 21.40 | 20.39 | 18.39 | 19.79 | 18.80 | 17.79 | 15.79 |
|       |            | 1745   | 22.44 | 21.45 | 20.45 | 18.45 | 19.84 | 18.85 | 17.85 | 15.85 |
|       |            | 1720   | 22.43 | 21.39 | 20.42 | 18.40 | 19.83 | 18.79 | 17.82 | 15.80 |
|       | 100% RB    | 1770   | 22.39 | 21.40 | 20.39 | 18.39 | 19.79 | 18.80 | 17.79 | 15.79 |
|       |            | 1745   | 22.44 | 21.45 | 20.45 | 18.45 | 19.84 | 18.85 | 17.85 | 15.85 |
|       |            | 1720   | 22.43 | 21.39 | 20.42 | 18.40 | 19.83 | 18.79 | 17.82 | 15.80 |

**LTE Band 71-ERP**
**Limits:  $\leq 34.77\text{dBm}(3\text{W})$** 

| Bandwidth | RB size/offset | Frequency (MHz) | Conducted Power(dBm) |       |       |        | ERP(dBm)(Gt-Lc =-3.4) |       |       |        |
|-----------|----------------|-----------------|----------------------|-------|-------|--------|-----------------------|-------|-------|--------|
|           |                |                 | QPSK                 | 16QAM | 64QAM | 256QAM | QPSK                  | 16QAM | 64QAM | 256QAM |
| 5MHz      | 1 RB high      | 695.5           | 22.66                | 21.61 | 20.81 | 17.69  | 17.11                 | 16.06 | 15.26 | 12.14  |
|           |                | 680.5           | 22.68                | 21.68 | 20.83 | 17.70  | 17.13                 | 16.13 | 15.28 | 12.15  |
|           |                | 665.5           | 22.61                | 21.56 | 20.69 | 17.58  | 17.06                 | 16.01 | 15.14 | 12.03  |
|           | 1 RB low       | 695.5           | 22.63                | 21.68 | 20.85 | 17.73  | 17.08                 | 16.13 | 15.30 | 12.18  |
|           |                | 680.5           | 22.66                | 21.67 | 20.87 | 17.69  | 17.11                 | 16.12 | 15.32 | 12.14  |
|           |                | 665.5           | 22.62                | 21.64 | 20.74 | 17.58  | 17.07                 | 16.09 | 15.19 | 12.03  |
|           | 50% RB mid     | 695.5           | 21.55                | 20.63 | 19.71 | 17.66  | 16.00                 | 15.08 | 14.16 | 12.11  |
|           |                | 680.5           | 21.53                | 20.62 | 19.70 | 17.65  | 15.98                 | 15.07 | 14.15 | 12.10  |
|           |                | 665.5           | 21.59                | 20.65 | 19.69 | 17.66  | 16.04                 | 15.10 | 14.14 | 12.11  |
|           | 100% RB        | 695.5           | 21.59                | 20.53 | 19.60 | 17.60  | 16.04                 | 14.98 | 14.05 | 12.05  |
|           |                | 680.5           | 21.56                | 20.51 | 19.58 | 17.59  | 16.01                 | 14.96 | 14.03 | 12.04  |
|           |                | 665.5           | 21.65                | 20.62 | 19.69 | 17.64  | 16.10                 | 15.07 | 14.14 | 12.09  |
| 10MHz     | 1 RB high      | 693             | 22.51                | 21.53 | 20.49 | 17.68  | 16.96                 | 15.98 | 14.94 | 12.13  |
|           |                | 680.5           | 22.56                | 21.64 | 20.58 | 17.74  | 17.01                 | 16.09 | 15.03 | 12.19  |
|           |                | 668             | 22.36                | 21.46 | 20.32 | 17.51  | 16.81                 | 15.91 | 14.77 | 11.96  |
|           | 1 RB low       | 693             | 22.60                | 21.63 | 20.38 | 17.73  | 17.05                 | 16.08 | 14.83 | 12.18  |
|           |                | 680.5           | 22.41                | 21.47 | 20.40 | 17.55  | 16.86                 | 15.92 | 14.85 | 12.00  |
|           |                | 668             | 22.47                | 21.60 | 20.17 | 17.56  | 16.92                 | 16.05 | 14.62 | 12.01  |
|           | 50% RB mid     | 693             | 21.60                | 20.68 | 19.69 | 17.68  | 16.05                 | 15.13 | 14.14 | 12.13  |
|           |                | 680.5           | 21.55                | 20.61 | 19.65 | 17.63  | 16.00                 | 15.06 | 14.10 | 12.08  |
|           |                | 668             | 21.48                | 20.65 | 19.63 | 17.64  | 15.93                 | 15.10 | 14.08 | 12.09  |
|           | 100% RB        | 693             | 21.59                | 20.65 | 19.63 | 17.63  | 16.04                 | 15.10 | 14.08 | 12.08  |
|           |                | 680.5           | 21.52                | 20.54 | 19.54 | 17.52  | 15.97                 | 14.99 | 13.99 | 11.97  |
|           |                | 668             | 21.50                | 20.53 | 19.52 | 17.53  | 15.95                 | 14.98 | 13.97 | 11.98  |
| 15MHz     | 1 RB high      | 690.5           | 22.48                | 21.84 | 20.96 | 17.90  | 16.93                 | 16.29 | 15.41 | 12.35  |
|           |                | 680.5           | 22.51                | 21.96 | 21.00 | 17.98  | 16.96                 | 16.41 | 15.45 | 12.43  |
|           |                | 670.5           | 22.35                | 21.78 | 20.83 | 17.72  | 16.80                 | 16.23 | 15.28 | 12.17  |
|           | 1 RB low       | 690.5           | 22.51                | 21.90 | 20.84 | 17.91  | 16.96                 | 16.35 | 15.29 | 12.36  |
|           |                | 680.5           | 22.36                | 21.77 | 20.99 | 17.76  | 16.81                 | 16.22 | 15.44 | 12.21  |
|           |                | 670.5           | 22.51                | 21.79 | 20.80 | 17.79  | 16.96                 | 16.24 | 15.25 | 12.24  |
|           | 50% RB mid     | 690.5           | 21.55                | 20.49 | 19.57 | 17.55  | 16.00                 | 14.94 | 14.02 | 12.00  |
|           |                | 680.5           | 21.49                | 20.46 | 19.55 | 17.54  | 15.94                 | 14.91 | 14.00 | 11.99  |
|           |                | 670.5           | 21.39                | 20.42 | 19.49 | 17.50  | 15.84                 | 14.87 | 13.94 | 11.95  |
|           | 100% RB        | 690.5           | 21.57                | 20.59 | 19.64 | 17.67  | 16.02                 | 15.04 | 14.09 | 12.12  |
|           |                | 680.5           | 21.48                | 20.51 | 19.53 | 17.55  | 15.93                 | 14.96 | 13.98 | 12.00  |
|           |                | 670.5           | 21.45                | 20.49 | 19.54 | 17.53  | 15.90                 | 14.94 | 13.99 | 11.98  |
| 20MHz     | 1 RB high      | 688             | 22.56                | 22.15 | 20.52 | 17.58  | 17.01                 | 16.60 | 14.97 | 12.03  |
|           |                | 680.5           | 22.65                | 22.31 | 20.59 | 17.73  | 17.10                 | 16.76 | 15.04 | 12.18  |

|  |               |       |       |       |       |       |       |       |       |       |
|--|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|  |               | 673   | 22.49 | 22.12 | 20.48 | 17.58 | 16.94 | 16.57 | 14.93 | 12.03 |
|  | 1 RB low      | 688   | 22.47 | 22.12 | 20.90 | 17.51 | 16.92 | 16.57 | 15.35 | 11.96 |
|  |               | 680.5 | 22.38 | 22.02 | 20.92 | 17.48 | 16.83 | 16.47 | 15.37 | 11.93 |
|  |               | 673   | 22.46 | 22.01 | 20.78 | 17.44 | 16.91 | 16.46 | 15.23 | 11.89 |
|  | 50% RB<br>mid | 688   | 21.63 | 20.53 | 19.70 | 17.60 | 16.08 | 14.98 | 14.15 | 12.05 |
|  |               | 680.5 | 21.51 | 20.47 | 19.59 | 17.59 | 15.96 | 14.92 | 14.04 | 12.04 |
|  |               | 673   | 21.54 | 20.40 | 19.61 | 17.51 | 15.99 | 14.85 | 14.06 | 11.96 |
|  | 100% RB       | 688   | 21.60 | 20.59 | 19.64 | 17.65 | 16.05 | 15.04 | 14.09 | 12.10 |
|  |               | 680.5 | 21.44 | 20.45 | 19.54 | 17.52 | 15.89 | 14.90 | 13.99 | 11.97 |
|  |               | 673   | 21.51 | 20.51 | 19.57 | 17.56 | 15.96 | 14.96 | 14.02 | 12.01 |

Note: Expanded measurement uncertainty is  $U = 0.578 \text{ dB}$ ,  $k = 2$ .

## A.2 Emission Limit

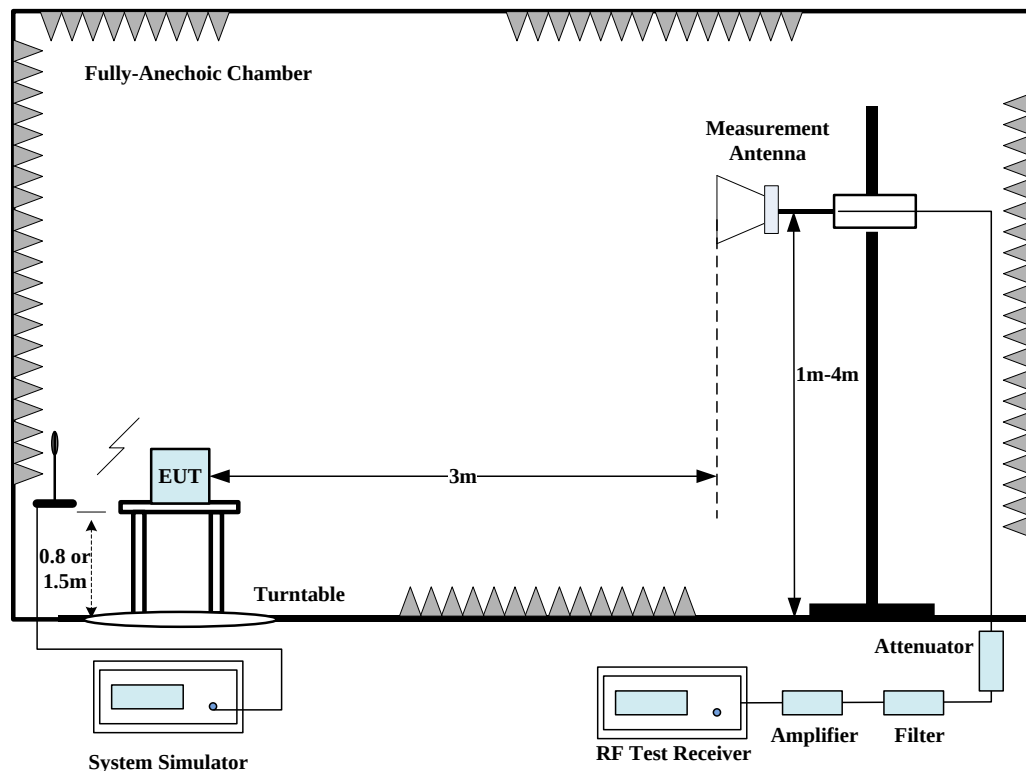
### A.2.1 Measurement Method

The measurement procedures in TIA-603E-2016 are used.

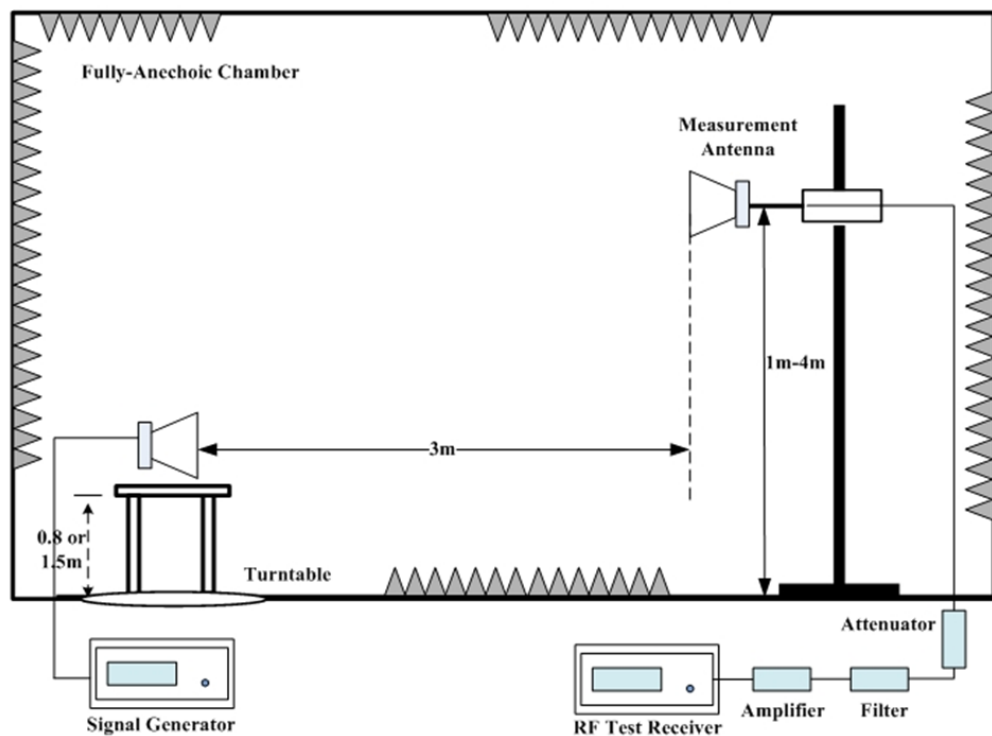
The spectrum was scanned from 30 MHz to the 10th harmonic of the highest frequency generated within the equipment, which is the transmitted carrier. The resolution bandwidth is set 1MHz. The spectrum was scanned with the mobile station transmitting at carrier frequencies that pertain to low, mid and high channels of each LTE Band.

#### The procedure of radiated spurious emissions is as follows:

For measurements performed at frequencies less than or equal to 1 GHz, the EUT was placed on a 80cm-high non-conductive support; For measurements performed at frequencies above 1GHz,EUT was placed on a 1.5-meter-high non-conductive support. A measurement antenna was placed on the antenna mast 3 meters from the EUT for emission measurements. In the initial test, the height of the measurement antenna was varied from 1 m to 4 m for the relative positioning that produces the maximum radiated signal level. The test setup refers to figure below. Detected emissions were maximized at each frequency by rotating the EUT through 360° and adjusting the receiving antenna polarization. The radiated emission measurements of all non-harmonic and harmonics of the transmit frequency through the 10th harmonic were measured with peak detector.



1. The EUT is then put into continuously transmitting mode at its maximum power level during the test. And the maximum value of the receiver should be recorded as (Pr).
2. The EUT shall be replaced by a substitution antenna. The test setup refers to figure below.



In the chamber, a substitution antenna for the frequency band of interest is placed at the reference point of the chamber. An RF Signal source for the frequency band of interest is connected to the substitution antenna with a cable that has been constructed to not interfere with the radiation pattern of the antenna. The height of measurement antenna varied between 1 m to 4 m to maximize the received signal amplitude for each emission that was detected and measured in the initial test. A power ( $P_{Mea}$ ) is applied to the input of the substitution antenna and adjusts the level of the signal generator output until the value of the receiver reach the previously recorded ( $P_r$ ). The power of signal source ( $P_{Mea}$ ) is recorded. The test was performed with the measurement antenna in both vertical and horizontal polarization.

3. The Path loss ( $P_{pl}$ ) between the Signal Source and the Substitution Antenna and the Substitution Antenna Gain ( $G_a$ ) were recorded after test. A amplifier was connected in for the test. The Path loss ( $P_{pl}$ ) is the summation of the cable loss and the gain of the amplifier.
4. The measurement results are obtained as described below:

$$\text{Power (EIRP)} = P_{Mea} - P_{pl} + G_a$$

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

### A.2.2 Measurement Limit

**FDD Band 2/25:** Part 24.238 specifies that the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power ( $P$ ) by a factor of at least  $43 + 10 \log(P)$  dB.

**FDD Band 12/13/17/71:** Part 27.53(g) states for operations in the 600 MHz band and the 698–746 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power ( $P$ ) within the licensed band(s) of operation, measured in

watts, by at least  $43 + 10 \log (P)$  dB. Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. 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.

**FDD Band 14:** Part 90.543 states that for operations in the 758–768 MHz and the 788–798 MHz bands, the power of any emission outside the licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, in accordance with the following: (1) On all frequencies between 769–775 MHz and 799–805 MHz, by a factor not less than  $76 + 10 \log (P)$  dB in a 6.25 kHz band segment, for base and fixed stations. (2) On all frequencies between 769–775 MHz and 799–805 MHz, by a factor not less than  $65 + 10 \log (P)$  dB in a 6.25 kHz band segment, for mobile and portable stations. (3) On any frequency between 775–788 MHz, above 805 MHz, and below 758 MHz, by at least  $43 + 10 \log (P)$  dB. (4) Compliance with the provisions of paragraphs (e)(1) and (2) of this section is based on the use of measurement instrumentation such that the reading taken with any resolution bandwidth setting should be adjusted to indicate spectral energy in a 6.25 kHz segment. (5) Compliance with the provisions of paragraph (e)(3) of this section is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater. However, in the 100 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of 30 kHz may be employed.

**LTE Band 26(814MHz~824MHz):** Part 90.691 states that out-of-band emission requirement shall apply only to the "outer" channels included in an EA license and to spectrum adjacent to interior channels used by incumbent licensees. The emission limits are as follows: For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least  $116 \log_{10}(f/6.1)$  decibels or  $50 + 10 \log_{10}(P)$  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 12.5 kHz. 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.

**FDD Band 5/26(824MHz~849MHz):** Part 22.917 specifies that the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least  $43 + 10 \log (P)$  dB.

**LTE Band 30:** Part 27.53(a) states for mobile and portable stations operating in the 2305–2315 MHz and 2350–2360 MHz bands: By a factor of not less than:  $43 + 10 \log (P)$  dB on all frequencies between 2305 and 2320 MHz and on all frequencies between 2345 and 2360 MHz that are outside the licensed band(s) of operation, not less than  $55 + 10 \log (P)$  dB on all frequencies between 2320 and 2324 MHz and on all frequencies between 2341 and 2345 MHz, not less than  $61 + 10 \log (P)$  dB on all frequencies between 2324 and 2328 MHz and on all frequencies between 2337 and 2341 MHz, and not less than  $67 + 10 \log (P)$  dB on all frequencies between 2328 and 2337 MHz; By a factor of not less than  $43 + 10 \log (P)$  dB on all frequencies between 2300 and 2305 MHz,  $55 + 10 \log (P)$  dB on all frequencies between 2296 and 2300 MHz,  $61 + 10 \log (P)$  dB on all frequencies between 2292 and 2296 MHz,  $67 + 10 \log (P)$  dB on all

frequencies between 2288 and 2292 MHz, and  $70 + 10 \log (P)$  dB below 2288 MHz; By a factor of not less than  $43 + 10 \log (P)$  dB on all frequencies between 2360 and 2365 MHz, and not less than  $70 + 10 \log (P)$  dB above 2365 MHz.

**FDD Band 7/TDD Band 38/41:** Part 27.53(m) specifies for mobile digital stations, the attenuation factor shall be not less than  $40 + 10 \log (P)$  dB on all frequencies between the channel edge and 5 megahertz from the channel edge,  $43 + 10 \log (P)$  dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and  $55 + 10 \log (P)$  dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less than  $43 + 10 \log (P)$  dB on all frequencies between 2490.5 MHz and 2496 MHz and  $55 + 10 \log (P)$  dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

**FDD Band 4/66:** Part 27.53(h) specifies that the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least  $43 + 10 \log (P)$  dB.

### A.2.3 Measurement Results

Radiated emissions measurements were made only at the upper, middle, and lower carrier frequencies of each LTE Band. 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 each LTE Band into any of the other blocks. The equipment must still, however, meet emissions requirements with the carrier at all frequencies over which it is capable of operating and it is the manufacturer's responsibility to verify this. The range of evaluated frequency is from 30MHz to 26GHz.

Note 1: All CA UL combination bands have been tested, only the worst cases are reported.

Note 2: Both of Vertical and Horizontal polarizations are evaluated, but only the worst case is recorded in this report.

### A.2.4 Measurement Results Table

| Frequency | Channel | Frequency Range | Result |
|-----------|---------|-----------------|--------|
| LTE Bands | Low     | 9kHz-26GHz      | Pass   |
|           | Middle  | 9kHz-26GHz      | Pass   |
|           | High    | 9kHz-26GHz      | Pass   |

### A.2.5 Sweep Table

| Subrange     | RBW    | VBW    |
|--------------|--------|--------|
| 9~150 kHz    | 0.2kHz | 0.6kHz |
| 150kHz~30MHz | 9kHz   | 27kHz  |
| 30MHz~1 GHz  | 100KHz | 300KHz |
| 1~20 GHz     | 1 MHz  | 3 MHz  |



### A.2.6 Measurement Result

#### LTE Band 7, 5MHz,CH20775,QPSK

| Frequency (MHz) | SG (dBm) | CableLoss (dB) | AntennaGain (dBi) | Peak EIRP (dBm) | Limit (dBm) | Margin (dB) | Polarization |
|-----------------|----------|----------------|-------------------|-----------------|-------------|-------------|--------------|
| 5005.00         | -56.24   | 5.15           | 11.33             | -50.06          | -25.00      | 25.06       | V            |
| 7507.50         | -38.67   | 7.70           | 10.22             | -36.15          | -25.00      | 11.15       | V            |
| 10010.50        | -35.83   | 9.35           | 11.79             | -33.39          | -25.00      | 8.39        | H            |
| 12514.00        | -30.81   | 12.37          | 13.56             | -29.62          | -25.00      | 4.62        | H            |
| 15016.00        | -43.02   | 14.74          | 14.65             | -43.11          | -25.00      | 18.11       | V            |
| 17519.00        | -35.49   | 19.70          | 13.12             | -42.07          | -25.00      | 17.07       | H            |

#### LTE Band 7, 5MHz,CH21100,QPSK

| Frequency (MHz) | SG (dBm) | CableLoss (dB) | AntennaGain (dBi) | Peak EIRP (dBm) | Limit (dBm) | Margin (dB) | Polarization |
|-----------------|----------|----------------|-------------------|-----------------|-------------|-------------|--------------|
| 5070.00         | -58.65   | 5.30           | 11.60             | -52.35          | -25.00      | 27.35       | V            |
| 7605.50         | -41.70   | 7.58           | 10.31             | -38.97          | -25.00      | 13.97       | H            |
| 10140.50        | -35.78   | 9.74           | 11.78             | -33.74          | -25.00      | 8.74        | H            |
| 12676.00        | -35.44   | 11.70          | 13.15             | -33.99          | -25.00      | 8.99        | H            |
| 15211.00        | -41.56   | 15.10          | 15.02             | -41.64          | -25.00      | 16.64       | V            |
| 17749.00        | -36.14   | 19.56          | 13.45             | -42.25          | -25.00      | 17.25       | H            |

#### LTE Band 7, 5MHz,CH21425,QPSK

| Frequency (MHz) | SG (dBm) | CableLoss (dB) | AntennaGain (dBi) | Peak EIRP (dBm) | Limit (dBm) | Margin (dB) | Polarization |
|-----------------|----------|----------------|-------------------|-----------------|-------------|-------------|--------------|
| 5135.00         | -53.90   | 5.55           | 11.60             | -47.85          | -25.00      | 22.85       | V            |
| 7702.50         | -43.71   | 6.72           | 10.60             | -39.83          | -25.00      | 14.83       | H            |
| 10270.50        | -34.24   | 10.76          | 11.90             | -33.10          | -25.00      | 8.10        | H            |
| 12838.50        | -32.32   | 13.04          | 12.92             | -32.44          | -25.00      | 7.44        | H            |
| 15406.50        | -40.72   | 14.90          | 15.41             | -40.21          | -25.00      | 15.21       | H            |
| 17974.00        | -35.19   | 19.99          | 13.45             | -41.73          | -25.00      | 16.73       | H            |

**LTE Band 12, 1.4MHz,CH23017,QPSK**

| Frequency<br>(MHz) | SG (dBm) | CableLoss<br>(dB) | AntennaGain<br>(dBi) | Correction | Peak ERP<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Polarization |
|--------------------|----------|-------------------|----------------------|------------|-------------------|----------------|----------------|--------------|
| 2806.50            | -48.68   | 5.23              | 10.41                | 2.15       | -45.65            | -13.00         | 32.65          | V            |
| 4199.00            | -52.99   | 4.16              | 10.10                | 2.15       | -49.20            | -13.00         | 36.20          | V            |
| 4898.50            | -45.28   | 4.86              | 11.00                | 2.15       | -41.29            | -13.00         | 28.29          | V            |
| 5598.50            | -40.03   | 5.66              | 11.30                | 2.15       | -36.54            | -13.00         | 23.54          | H            |
| 6298.00            | -40.19   | 6.07              | 10.80                | 2.15       | -37.61            | -13.00         | 24.61          | H            |
| 6997.50            | -47.15   | 7.83              | 10.40                | 2.15       | -46.73            | -13.00         | 33.73          | V            |

**LTE Band 12, 1.4MHz,CH23095,QPSK**

| Frequency<br>(MHz) | SG (dBm) | CableLoss<br>(dB) | AntennaGain<br>(dBi) | Correction | Peak ERP<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Polarization |
|--------------------|----------|-------------------|----------------------|------------|-------------------|----------------|----------------|--------------|
| 2822.50            | -49.71   | 5.12              | 10.44                | 2.15       | -46.54            | -13.00         | 33.54          | H            |
| 4245.00            | -52.19   | 4.94              | 10.28                | 2.15       | -49.00            | -13.00         | 36.00          | V            |
| 4953.50            | -46.63   | 4.91              | 11.21                | 2.15       | -42.48            | -13.00         | 29.48          | V            |
| 5661.00            | -42.12   | 5.72              | 11.40                | 2.15       | -38.59            | -13.00         | 25.59          | H            |
| 6368.50            | -40.30   | 5.76              | 10.94                | 2.15       | -37.27            | -13.00         | 24.27          | H            |
| 7075.50            | -44.40   | 6.89              | 10.40                | 2.15       | -43.04            | -13.00         | 30.04          | H            |

**LTE Band 12, 1.4MHz,CH23173,QPSK**

| Frequency<br>(MHz) | SG (dBm) | CableLoss<br>(dB) | AntennaGain<br>(dBi) | Correction | Peak ERP<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Polarization |
|--------------------|----------|-------------------|----------------------|------------|-------------------|----------------|----------------|--------------|
| 2860.50            | -48.31   | 5.53              | 10.56                | 2.15       | -45.43            | -13.00         | 32.43          | H            |
| 4292.00            | -46.60   | 4.65              | 10.55                | 2.15       | -42.85            | -13.00         | 29.85          | H            |
| 5007.50            | -46.82   | 5.14              | 11.34                | 2.15       | -42.77            | -13.00         | 29.77          | H            |
| 5723.00            | -35.30   | 5.90              | 11.35                | 2.15       | -32.00            | -13.00         | 19.00          | H            |
| 6438.50            | -35.82   | 6.87              | 10.85                | 2.15       | -33.99            | -13.00         | 20.99          | H            |
| 7153.50            | -41.55   | 6.70              | 10.18                | 2.15       | -40.22            | -13.00         | 27.22          | H            |

**LTE Band 13, 5MHz,CH23205,QPSK**

| Frequency (MHz) | SG (dBm) | CableLoss (dB) | AntennaGain (dBi) | Correction | Peak ERP (dBm) | Limit (dBm) | Margin (dB) | Polarization |
|-----------------|----------|----------------|-------------------|------------|----------------|-------------|-------------|--------------|
| 3117.50         | -53.89   | 5.38           | 7.28              | 2.15       | -54.14         | -13.00      | 41.14       | H            |
| 3897.50         | -43.14   | 6.11           | 8.76              | 2.15       | -42.64         | -13.00      | 29.64       | V            |
| 4677.50         | -42.76   | 6.49           | 9.58              | 2.15       | -41.82         | -13.00      | 28.82       | V            |
| 5457.50         | -37.42   | 6.90           | 10.54             | 2.15       | -35.93         | -13.00      | 22.93       | H            |
| 6237.50         | -39.45   | 7.42           | 10.74             | 2.15       | -38.28         | -13.00      | 25.28       | V            |
| 7017.50         | -35.16   | 8.27           | 11.62             | 2.15       | -33.96         | -13.00      | 20.96       | H            |

**LTE Band 13, 5MHz,CH23230,QPSK**

| Frequency (MHz) | SG (dBm) | CableLoss (dB) | AntennaGain (dBi) | Correction | Peak ERP (dBm) | Limit (dBm) | Margin (dB) | Polarization |
|-----------------|----------|----------------|-------------------|------------|----------------|-------------|-------------|--------------|
| 3127.50         | -52.12   | 5.40           | 7.31              | 2.15       | -52.36         | -13.00      | 39.36       | V            |
| 3910.00         | -44.57   | 6.12           | 8.77              | 2.15       | -44.07         | -13.00      | 31.07       | H            |
| 4692.50         | -42.09   | 6.50           | 9.59              | 2.15       | -41.15         | -13.00      | 28.15       | V            |
| 5475.00         | -37.86   | 6.97           | 10.57             | 2.15       | -36.41         | -13.00      | 23.41       | H            |
| 6257.50         | -38.88   | 7.45           | 10.76             | 2.15       | -37.72         | -13.00      | 24.72       | H            |
| 7040.00         | -31.97   | 8.24           | 11.65             | 2.15       | -30.71         | -13.00      | 17.71       | V            |

**LTE Band 13, 5MHz,CH23255,QPSK**

| Frequency (MHz) | SG (dBm) | CableLoss (dB) | AntennaGain (dBi) | Correction | Peak ERP (dBm) | Limit (dBm) | Margin (dB) | Polarization |
|-----------------|----------|----------------|-------------------|------------|----------------|-------------|-------------|--------------|
| 3137.50         | -53.17   | 5.39           | 7.33              | 2.15       | -53.38         | -13.00      | 40.38       | V            |
| 3922.50         | -44.30   | 6.12           | 8.79              | 2.15       | -43.78         | -13.00      | 30.78       | H            |
| 4707.50         | -44.78   | 6.51           | 9.61              | 2.15       | -43.83         | -13.00      | 30.83       | V            |
| 5492.50         | -41.88   | 7.03           | 10.59             | 2.15       | -40.47         | -13.00      | 27.47       | V            |
| 6277.50         | -41.25   | 7.49           | 10.78             | 2.15       | -40.11         | -13.00      | 27.11       | H            |
| 7062.50         | -30.99   | 8.21           | 11.68             | 2.15       | -29.67         | -13.00      | 16.67       | V            |

**LTE Band 14, 5MHz,CH23305,QPSK**

| Frequency (MHz) | SG (dBm) | CableLoss (dB) | AntennaGain (dBi) | Correction | Peak ERP (dBm) | Limit (dBm) | Margin (dB) | Polarization |
|-----------------|----------|----------------|-------------------|------------|----------------|-------------|-------------|--------------|
| 2371.52         | -42.45   | 4.48           | 5.71              | 2.15       | -43.37         | -13.00      | 30.37       | H            |
| 3952.50         | -46.30   | 6.10           | 8.83              | 2.15       | -45.72         | -13.00      | 32.72       | V            |
| 4745.00         | -41.76   | 6.56           | 9.65              | 2.15       | -40.82         | -13.00      | 27.82       | V            |
| 5535.00         | -38.24   | 7.17           | 10.59             | 2.15       | -36.97         | -13.00      | 23.97       | H            |
| 6325.00         | -38.65   | 7.56           | 10.83             | 2.15       | -37.53         | -13.00      | 24.53       | H            |
| 7115.00         | -39.91   | 8.16           | 11.74             | 2.15       | -38.48         | -13.00      | 25.48       | H            |

**LTE Band 14, 5MHz,CH23330,QPSK**

| Frequency (MHz) | SG (dBm) | CableLoss (dB) | AntennaGain (dBi) | Correction | Peak ERP (dBm) | Limit (dBm) | Margin (dB) | Polarization |
|-----------------|----------|----------------|-------------------|------------|----------------|-------------|-------------|--------------|
| 2379.46         | -43.38   | 4.49           | 5.74              | 2.15       | -44.28         | -13.00      | 31.28       | V            |
| 3965.00         | -43.89   | 6.09           | 8.85              | 2.15       | -43.28         | -13.00      | 30.28       | H            |
| 4757.50         | -39.87   | 6.59           | 9.66              | 2.15       | -38.95         | -13.00      | 25.95       | V            |
| 5552.50         | -37.44   | 7.18           | 10.59             | 2.15       | -36.18         | -13.00      | 23.18       | V            |
| 6345.00         | -35.08   | 7.56           | 10.85             | 2.15       | -33.94         | -13.00      | 20.94       | H            |
| 7140.00         | -38.23   | 8.17           | 11.77             | 2.15       | -36.78         | -13.00      | 23.78       | H            |

**LTE Band 14, 5MHz,CH23355,QPSK**

| Frequency (MHz) | SG (dBm) | CableLoss (dB) | AntennaGain (dBi) | Correction | Peak ERP (dBm) | Limit (dBm) | Margin (dB) | Polarization |
|-----------------|----------|----------------|-------------------|------------|----------------|-------------|-------------|--------------|
| 3182.50         | -50.58   | 5.32           | 7.44              | 2.15       | -50.61         | -13.00      | 37.61       | H            |
| 3977.50         | -43.62   | 6.08           | 8.87              | 2.15       | -42.98         | -13.00      | 29.98       | V            |
| 4772.50         | -41.42   | 6.61           | 9.67              | 2.15       | -40.51         | -13.00      | 27.51       | H            |
| 5570.00         | -37.45   | 7.20           | 10.59             | 2.15       | -36.21         | -13.00      | 23.21       | H            |
| 6365.00         | -34.24   | 7.56           | 10.87             | 2.15       | -33.08         | -13.00      | 20.08       | V            |
| 7160.00         | -37.03   | 8.18           | 11.79             | 2.15       | -35.57         | -13.00      | 22.57       | V            |

**LTE Band 25, 1.4MHz,CH26047,QPSK**

| Frequency<br>(MHz) | SG<br>(dBm) | CableLoss<br>(dB) | AntennaGain<br>(dBi) | Peak ERP<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Polarization |
|--------------------|-------------|-------------------|----------------------|-------------------|----------------|----------------|--------------|
| 3701.50            | -55.32      | 3.47              | 10.39                | -48.40            | -13.00         | 35.40          | H            |
| 5552.00            | -42.90      | 5.32              | 11.20                | -37.02            | -13.00         | 24.02          | H            |
| 7403.00            | -42.59      | 8.08              | 10.10                | -40.57            | -13.00         | 27.57          | H            |
| 9253.50            | -33.85      | 8.85              | 11.70                | -31.00            | -13.00         | 18.00          | H            |
| 11104.50           | -30.77      | 9.75              | 12.60                | -27.92            | -13.00         | 14.92          | H            |
| 12955.50           | -40.47      | 12.50             | 12.74                | -40.23            | -13.00         | 27.23          | H            |

**LTE Band 25, 1.4MHz,CH26365,QPSK**

| Frequency<br>(MHz) | SG<br>(dBm) | CableLoss<br>(dB) | AntennaGain<br>(dBi) | Peak ERP<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Polarization |
|--------------------|-------------|-------------------|----------------------|-------------------|----------------|----------------|--------------|
| 3765.00            | -54.69      | 3.79              | 10.14                | -48.34            | -13.00         | 35.34          | H            |
| 5647.50            | -45.49      | 5.60              | 11.40                | -39.69            | -13.00         | 26.69          | H            |
| 7530.50            | -41.60      | 7.72              | 10.26                | -39.06            | -13.00         | 26.06          | H            |
| 9412.50            | -28.96      | 9.06              | 11.55                | -26.47            | -13.00         | 13.47          | H            |
| 11295.50           | -28.28      | 10.61             | 12.60                | -26.29            | -13.00         | 13.29          | H            |
| 13178.00           | -37.88      | 13.15             | 12.52                | -38.51            | -13.00         | 25.51          | H            |

**LTE Band 25, 1.4MHz,CH26683,QPSK**

| Frequency<br>(MHz) | SG<br>(dBm) | CableLoss<br>(dB) | AntennaGain<br>(dBi) | Peak ERP<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Polarization |
|--------------------|-------------|-------------------|----------------------|-------------------|----------------|----------------|--------------|
| 3828.50            | -52.90      | 3.92              | 9.94                 | -46.88            | -13.00         | 33.88          | H            |
| 5743.00            | -46.77      | 5.86              | 11.31                | -41.32            | -13.00         | 28.32          | V            |
| 7657.50            | -43.05      | 6.90              | 10.43                | -39.52            | -13.00         | 26.52          | H            |
| 9572.00            | -27.13      | 8.64              | 11.90                | -23.87            | -13.00         | 10.87          | H            |
| 11486.50           | -27.44      | 12.28             | 12.51                | -27.21            | -13.00         | 14.21          | H            |
| 13401.00           | -34.07      | 12.46             | 12.40                | -34.13            | -13.00         | 21.13          | V            |

**LTE Band 26(824MHz~849MHz), 1.4MHz,CH26797,QPSK**

| Frequency<br>(MHz) | SG<br>(dBm) | CableLoss<br>(dB) | AntennaGain<br>(dBi) | Correction<br>(dB) | Peak ERP<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Polarization |
|--------------------|-------------|-------------------|----------------------|--------------------|-------------------|----------------|----------------|--------------|
| 2474.00            | -49.96      | 4.33              | 10.35                | 2.15               | -46.09            | -13.00         | 33.09          | V            |
| 4949.00            | -46.58      | 4.91              | 11.20                | 2.15               | -42.44            | -13.00         | 29.44          | H            |
| 5774.00            | -39.57      | 5.68              | 11.16                | 2.15               | -36.24            | -13.00         | 23.24          | H            |
| 6599.00            | -37.85      | 7.10              | 10.31                | 2.15               | -36.79            | -13.00         | 23.79          | V            |
| 7423.50            | -45.49      | 7.96              | 10.10                | 2.15               | -45.50            | -13.00         | 32.50          | H            |
| 8236.00            | -49.79      | 7.59              | 11.20                | 2.15               | -48.33            | -13.00         | 35.33          | H            |

**LTE Band 26(824MHz~849MHz), 1.4MHz,CH26915,QPSK**

| Frequency<br>(MHz) | SG<br>(dBm) | CableLoss<br>(dB) | AntennaGain<br>(dBi) | Correction<br>(dB) | Peak ERP<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Polarization |
|--------------------|-------------|-------------------|----------------------|--------------------|-------------------|----------------|----------------|--------------|
| 4182.50            | -51.93      | 4.07              | 10.06                | 2.15               | -48.09            | -13.00         | 35.09          | H            |
| 5019.50            | -44.59      | 5.10              | 11.42                | 2.15               | -40.42            | -13.00         | 27.42          | H            |
| 5856.00            | -39.50      | 5.60              | 10.98                | 2.15               | -36.27            | -13.00         | 23.27          | H            |
| 6692.50            | -36.81      | 6.20              | 10.48                | 2.15               | -34.68            | -13.00         | 21.68          | H            |
| 7529.50            | -44.06      | 7.72              | 10.26                | 2.15               | -43.67            | -13.00         | 30.67          | H            |
| 8358.50            | -48.77      | 8.24              | 11.30                | 2.15               | -47.86            | -13.00         | 34.86          | V            |

**LTE Band 26(824MHz~849MHz), 1.4MHz,CH27033,QPSK**

| Frequency<br>(MHz) | SG<br>(dBm) | CableLoss<br>(dB) | AntennaGain<br>(dBi) | Correction<br>(dB) | Peak ERP<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Polarization |
|--------------------|-------------|-------------------|----------------------|--------------------|-------------------|----------------|----------------|--------------|
| 2545.50            | -51.37      | 4.61              | 10.30                | 2.15               | -47.83            | -13.00         | 34.83          | V            |
| 4242.00            | -47.70      | 4.43              | 10.27                | 2.15               | -44.01            | -13.00         | 31.01          | H            |
| 5090.50            | -42.82      | 5.30              | 11.60                | 2.15               | -38.67            | -13.00         | 25.67          | H            |
| 5939.00            | -35.31      | 6.00              | 10.72                | 2.15               | -32.74            | -13.00         | 19.74          | H            |
| 6787.00            | -36.87      | 6.39              | 10.37                | 2.15               | -35.04            | -13.00         | 22.04          | H            |
| 8484.50            | -47.37      | 8.88              | 11.30                | 2.15               | -47.10            | -13.00         | 34.10          | H            |

**LTE Band 26(814MHz~824MHz), 1.4MHz,CH26697,QPSK**

| Frequency<br>(MHz) | SG<br>(dBm) | CableLoss<br>(dB) | AntennaGain<br>(dBi) | Correction<br>(dB) | Peak ERP<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Polarization |
|--------------------|-------------|-------------------|----------------------|--------------------|-------------------|----------------|----------------|--------------|
| 2459.00            | -52.76      | 4.40              | 10.38                | 2.15               | -48.93            | -13.00         | 35.93          | V            |
| 4889.00            | -45.00      | 4.81              | 10.98                | 2.15               | -40.98            | -13.00         | 27.98          | H            |
| 5703.50            | -36.16      | 5.67              | 11.39                | 2.15               | -32.59            | -13.00         | 19.59          | H            |
| 6518.50            | -35.46      | 6.27              | 10.60                | 2.15               | -33.28            | -13.00         | 20.28          | V            |
| 7333.50            | -41.29      | 7.71              | 9.90                 | 2.15               | -41.25            | -13.00         | 28.25          | H            |
| 8141.50            | -48.21      | 8.21              | 11.12                | 2.15               | -47.45            | -13.00         | 34.45          | H            |

**LTE Band 26(814MHz~824MHz), 1.4MHz,CH26740,QPSK**

| Frequency<br>(MHz) | SG<br>(dBm) | CableLoss<br>(dB) | AntennaGain<br>(dBi) | Correction<br>(dB) | Peak ERP<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Polarization |
|--------------------|-------------|-------------------|----------------------|--------------------|-------------------|----------------|----------------|--------------|
| 4095.50            | -51.28      | 3.93              | 10.09                | 2.15               | -47.27            | -13.00         | 34.27          | H            |
| 4914.50            | -42.03      | 4.95              | 11.06                | 2.15               | -38.07            | -13.00         | 25.07          | H            |
| 5733.50            | -37.09      | 5.88              | 11.33                | 2.15               | -33.79            | -13.00         | 20.79          | H            |
| 6552.50            | -34.93      | 6.31              | 10.58                | 2.15               | -32.81            | -13.00         | 19.81          | V            |
| 7371.50            | -38.23      | 7.43              | 9.99                 | 2.15               | -37.82            | -13.00         | 24.82          | V            |
| 8191.00            | -49.10      | 7.32              | 11.18                | 2.15               | -47.39            | -13.00         | 34.39          | H            |

**LTE Band 26(814MHz~824MHz), 1.4MHz,CH26783,QPSK**

| Frequency<br>(MHz) | SG<br>(dBm) | CableLoss<br>(dB) | AntennaGain<br>(dBi) | Correction<br>(dB) | Peak ERP<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Polarization |
|--------------------|-------------|-------------------|----------------------|--------------------|-------------------|----------------|----------------|--------------|
| 2471.00            | -51.35      | 4.32              | 10.36                | 2.15               | -47.46            | -13.00         | 34.46          | V            |
| 4940.50            | -43.74      | 4.90              | 11.16                | 2.15               | -39.63            | -13.00         | 26.63          | H            |
| 5763.00            | -42.30      | 5.81              | 11.22                | 2.15               | -39.04            | -13.00         | 26.04          | H            |
| 6587.00            | -45.83      | 7.21              | 10.38                | 2.15               | -44.81            | -13.00         | 31.81          | H            |
| 7410.00            | -46.63      | 8.04              | 10.10                | 2.15               | -46.72            | -13.00         | 33.72          | H            |
| 8246.50            | -50.22      | 7.59              | 11.20                | 2.15               | -48.76            | -13.00         | 35.76          | H            |

**LTE Band 30, 5MHz,CH27685,QPSK**

| Frequency<br>(MHz) | SG<br>(dBm) | CableLoss<br>(dB) | AntennaGain<br>(dBi) | Peak ERP<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Polarization |
|--------------------|-------------|-------------------|----------------------|-------------------|----------------|----------------|--------------|
| 4615.00            | -60.55      | 4.68              | 10.97                | -54.26            | -40.00         | 14.26          | H            |
| 6923.00            | -59.68      | 6.47              | 10.35                | -55.80            | -40.00         | 15.80          | H            |
| 9230.50            | -46.26      | 8.85              | 11.74                | -43.37            | -40.00         | 3.37           | H            |
| 11538.50           | -46.01      | 10.59             | 12.54                | -44.06            | -40.00         | 4.06           | H            |
| 13846.00           | -47.85      | 13.08             | 12.10                | -48.83            | -40.00         | 8.83           | H            |
| 16154.50           | -49.60      | 18.62             | 15.10                | -53.12            | -40.00         | 13.12          | H            |

**LTE Band 30, 5MHz,CH27710,QPSK**

| Frequency<br>(MHz) | SG<br>(dBm) | CableLoss<br>(dB) | AntennaGain<br>(dBi) | Peak ERP<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Polarization |
|--------------------|-------------|-------------------|----------------------|-------------------|----------------|----------------|--------------|
| 4620.00            | -60.61      | 4.69              | 10.96                | -54.34            | -40.00         | 14.34          | H            |
| 6930.50            | -61.15      | 6.47              | 10.36                | -57.26            | -40.00         | 17.26          | H            |
| 9240.50            | -44.99      | 8.85              | 11.72                | -42.12            | -40.00         | 2.12           | H            |
| 11551.00           | -44.91      | 10.68             | 12.55                | -43.04            | -40.00         | 3.04           | H            |
| 13861.00           | -49.11      | 13.10             | 12.10                | -50.11            | -40.00         | 10.11          | H            |
| 16171.50           | -48.92      | 18.53             | 15.10                | -52.35            | -40.00         | 12.35          | H            |

**LTE Band 30, 5MHz,CH27735,QPSK**

| Frequency<br>(MHz) | SG<br>(dBm) | CableLoss<br>(dB) | AntennaGain<br>(dBi) | Peak ERP<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Polarization |
|--------------------|-------------|-------------------|----------------------|-------------------|----------------|----------------|--------------|
| 4625.00            | -58.24      | 4.71              | 10.95                | -52.00            | -40.00         | 12.00          | H            |
| 6938.00            | -60.95      | 6.47              | 10.38                | -57.04            | -40.00         | 17.04          | V            |
| 9250.50            | -43.76      | 8.85              | 11.70                | -40.91            | -40.00         | 0.91           | H            |
| 11563.50           | -42.26      | 10.77             | 12.56                | -40.47            | -40.00         | 0.47           | H            |
| 13876.50           | -48.26      | 13.12             | 12.10                | -49.28            | -40.00         | 9.28           | H            |
| 16189.50           | -48.16      | 18.43             | 15.10                | -51.49            | -40.00         | 11.49          | H            |



**LTE Band 41, 5MHz,CH39675,QPSK**

| Frequency (MHz) | SG (dBm) | CableLoss (dB) | AntennaGain (dBi) | Peak EIRP (dBm) | Limit (dBm) | Margin (dB) | Polarization |
|-----------------|----------|----------------|-------------------|-----------------|-------------|-------------|--------------|
| 4997.50         | -50.14   | 5.17           | 11.30             | -44.01          | -25.00      | 19.01       | V            |
| 7498.00         | -31.30   | 7.70           | 10.20             | -28.80          | -25.00      | 3.80        | V            |
| 9994.50         | -40.84   | 9.36           | 11.79             | -38.41          | -25.00      | 13.41       | H            |
| 12493.50        | -39.38   | 12.34          | 13.59             | -38.13          | -25.00      | 13.13       | H            |
| 14992.50        | -40.40   | 14.77          | 14.57             | -40.60          | -25.00      | 15.60       | V            |
| 17483.00        | -34.54   | 19.75          | 13.08             | -41.21          | -25.00      | 16.21       | H            |

**LTE Band 41, 5MHz,CH40620,QPSK**

| Frequency (MHz) | SG (dBm) | CableLoss (dB) | AntennaGain (dBi) | Peak EIRP (dBm) | Limit (dBm) | Margin (dB) | Polarization |
|-----------------|----------|----------------|-------------------|-----------------|-------------|-------------|--------------|
| 5183.00         | -59.17   | 5.76           | 11.67             | -53.26          | -25.00      | 28.26       | H            |
| 7779.00         | -49.20   | 7.37           | 10.76             | -45.81          | -25.00      | 20.81       | V            |
| 10372.50        | -38.68   | 10.73          | 11.97             | -37.44          | -25.00      | 12.44       | H            |
| 12966.00        | -44.00   | 12.53          | 12.73             | -43.80          | -25.00      | 18.80       | V            |
| 15559.00        | -41.36   | 16.71          | 15.60             | -42.47          | -25.00      | 17.47       | H            |
| 17975.00        | -34.55   | 19.99          | 13.45             | -41.09          | -25.00      | 16.09       | H            |

**LTE Band 41, 5MHz,CH41565,QPSK**

| Frequency (MHz) | SG (dBm) | CableLoss (dB) | AntennaGain (dBi) | Peak EIRP (dBm) | Limit (dBm) | Margin (dB) | Polarization |
|-----------------|----------|----------------|-------------------|-----------------|-------------|-------------|--------------|
| 5378.00         | -59.83   | 5.71           | 11.64             | -53.90          | -25.00      | 28.90       | V            |
| 8063.00         | -49.66   | 7.86           | 11.13             | -46.39          | -25.00      | 21.39       | H            |
| 10751.00        | -48.07   | 9.83           | 12.15             | -45.75          | -25.00      | 20.75       | V            |
| 13434.00        | -44.67   | 12.55          | 12.37             | -44.85          | -25.00      | 19.85       | V            |
| 16113.00        | -45.34   | 17.09          | 15.10             | -47.33          | -25.00      | 22.33       | V            |
| 17982.50        | -36.19   | 19.97          | 13.44             | -42.72          | -25.00      | 17.72       | H            |

**LTE Band 66, 1.4MHz,CH131979,QPSK**

| Frequency (MHz) | SG (dBm) | CableLoss (dB) | AntennaGain (dBi) | Peak EIRP (dBm) | Limit (dBm) | Margin (dB) | Polarization |
|-----------------|----------|----------------|-------------------|-----------------|-------------|-------------|--------------|
| 5132.50         | -50.40   | 5.56           | 11.60             | -44.36          | -13.00      | 31.36       | H            |
| 8554.00         | -50.90   | 8.52           | 11.20             | -48.22          | -13.00      | 35.22       | H            |
| 10265.00        | -45.26   | 10.80          | 11.90             | -44.16          | -13.00      | 31.16       | H            |
| 11975.50        | -43.31   | 12.28          | 13.05             | -42.54          | -13.00      | 29.54       | H            |
| 13687.00        | -52.83   | 13.01          | 12.20             | -53.64          | -13.00      | 40.64       | H            |
| 17108.50        | -47.78   | 18.45          | 13.49             | -52.74          | -13.00      | 39.74       | H            |

**LTE Band 66, 1.4MHz,CH132322,QPSK**

| Frequency (MHz) | SG (dBm) | CableLoss (dB) | AntennaGain (dBi) | Peak EIRP (dBm) | Limit (dBm) | Margin (dB) | Polarization |
|-----------------|----------|----------------|-------------------|-----------------|-------------|-------------|--------------|
| 5235.00         | -57.39   | 4.70           | 11.70             | -50.39          | -13.00      | 37.39       | H            |
| 8725.50         | -52.16   | 8.45           | 11.10             | -49.51          | -13.00      | 36.51       | V            |
| 10470.50        | -44.37   | 10.36          | 11.93             | -42.80          | -13.00      | 29.80       | H            |
| 12215.00        | -47.74   | 12.17          | 13.40             | -46.51          | -13.00      | 33.51       | V            |
| 15705.50        | -52.93   | 16.64          | 15.51             | -54.06          | -13.00      | 41.06       | H            |
| 17444.00        | -45.70   | 19.26          | 13.04             | -51.92          | -13.00      | 38.92       | H            |

**LTE Band 66, 1.4MHz,CH132665,QPSK**

| Frequency (MHz) | SG (dBm) | CableLoss (dB) | AntennaGain (dBi) | Peak EIRP (dBm) | Limit (dBm) | Margin (dB) | Polarization |
|-----------------|----------|----------------|-------------------|-----------------|-------------|-------------|--------------|
| 5338.50         | -59.10   | 6.17           | 11.72             | -53.55          | -13.00      | 40.55       | H            |
| 8897.00         | -49.47   | 8.04           | 11.59             | -45.92          | -13.00      | 32.92       | H            |
| 10676.00        | -41.78   | 10.04          | 12.08             | -39.74          | -13.00      | 26.74       | H            |
| 12455.50        | -45.22   | 12.90          | 13.51             | -44.61          | -13.00      | 31.61       | H            |
| 16014.50        | -49.77   | 17.47          | 15.36             | -51.88          | -13.00      | 38.88       | H            |
| 17793.50        | -46.61   | 19.55          | 13.49             | -52.67          | -13.00      | 39.67       | V            |