

## FCC Test Report

### (Part 27: CA mode (LTE Band 7C, 38C, 41C, 66C, 66B))

**Report No.:** RFBASM-WTW-P21060063-7

**FCC ID:** QYLEM9190K

**Test Model:** EM9190

**Received Date:** Jun. 02, 2021

**Test Date:** Dec. 13 ~ Dec. 15, 2021

**Issued Date:** Dec. 20, 2021

**Applicant:** Getac Technology Corporation.

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**Issued By:** Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch  
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**FCC Registration /** 788550 / TW0003

**Designation Number:**



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### Release Control Record

| Issue No.              | Description      | Date Issued   |
|------------------------|------------------|---------------|
| RFBASM-WTW-P21060063-7 | Original release | Dec. 20, 2021 |

## 1 Certificate of Conformity

**Product:** Wireless Module

**Brand:** Getac

**Test Model:** EM9190


**Sample Status:** Identical Prototype

**Applicant:** Getac Technology Corporation.

**Test Date:** Dec. 13 ~ Dec. 15, 2021

**Standards:** FCC Part 27, Subpart C, M, L

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's RF characteristics under the conditions specified in this report.

**Prepared by :** , **Date:** Dec. 20, 2021  
Polly Chien / Specialist

**Approved by :** , **Date:** Dec. 20, 2021  
Jeremy Lin / Project Engineer

## 2 Summary of Test Results

| Applied Standard: FCC Part 27 & Part 2 |                           |  |        |   |
|--|---------------------------|--|--------|---|
| FCC Clause                             |                           | Test Item  | Result | Remarks   |
| LTE B7 /<br>LTE B38 /<br>LTE B41       | LTE B66                   |  |        |   |
| 2.1046<br>27.50<br>(h)(2)              | 2.1046<br>27.50<br>(d)(4) | Equivalent Isotropically Radiated Power                            | Pass   | Meet the requirement of limit.  |
| 2.1047                                 | 2.1047                    | Modulation Characteristics   | N/A    | Refer to Note   |
| ---                                    | 27.50<br>(d)(5)           | Peak To Average Ratio  | N/A    | Refer to Note   |
| 2.1055<br>27.54                        | 2.1055<br>27.54           | Frequency Stability<br>Stay with the authorized bands of operation | N/A    | Refer to Note   |
| 2.1049                                 | 2.1049                    | Emission Bandwidth   | N/A    | Refer to Note   |
| 2.1051<br>27.53<br>(m)(4)(6)           | 2.1051<br>27.53(h)        | Band Edge Measurements   | N/A    | Refer to Note   |
| 2.1051<br>27.53<br>(m)(4)(6)           | 2.1051<br>27.53(h)        | Conducted Spurious Emissions                                       | N/A    | Refer to Note   |
| 2.1053<br>27.53<br>(m)(4)(6)           | 2.1053<br>27.53(h)        | Radiated Spurious Emissions  | Pass   | Meet the requirement of limit.<br>Minimum passing margin is -19.61dB at 5180.40MHz. |

Note:

1. This report is a partial report. Therefore, only test item of Equivalent Isotropically Radiated Power, Effective radiated power and Radiated Spurious Emissions tests were performed for this report. Other testing data please refer to Sporton International (Shenzhen) Inc. report no.: FG021501D\_Rev. 02 and FG021501C\_Rev. 02 for module (Brand: Airprime, Model: EM9190).
2. Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

### 2.1 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

| Measurement                    | Frequency        | Expanded Uncertainty (k=2) (±) |
|--------------------------------|------------------|--------------------------------|
| Radiated Emissions up to 1 GHz | 9kHz ~ 30MHz     | 3.04 dB                        |
|                                | 30MHz ~ 200MHz   | 3.59 dB                        |
|                                | 200MHz ~ 1000MHz | 3.60 dB                        |
| Radiated Emissions above 1 GHz | 1GHz ~ 18GHz     | 2.29 dB                        |
|                                | 18GHz ~ 40GHz    | 2.29 dB                        |

## 2.2 Test Site and Instruments

| Description & Manufacturer                                  | Model No.                          | Serial No.                      | Cal. Date     | Cal. Due      |
|---|------------------------------------|---------------------------------|---------------|---------------|
| Test Receiver<br>KEYSIGHT                                   | N9038A                             | MY55420137                      | Apr. 09, 2021 | Apr. 08, 2022 |
| Spectrum Analyzer<br>ROHDE & SCHWARZ                        | FSW43                              | 101582                          | Apr. 01, 2021 | Mar. 31, 2022 |
| 5G Wireless Test Platforms<br>Keysight                      | E7515B                             | MY60102114                      | May 21, 2021  | May 20, 2022  |
| BILOG Antenna<br>SCHWARZBECK                                | VULB9168                           | 9168-160                        | Oct. 28, 2021 | Oct. 27, 2022 |
| HORN Antenna<br>SCHWARZBECK                                 | BBHA 9120D                         | 9120D-969                       | Nov. 14, 2021 | Nov. 13, 2022 |
| HORN Antenna<br>SCHWARZBECK                                 | BBHA 9170                          | BBHA9170241                     | Nov. 14, 2021 | Nov. 13, 2022 |
| Preamplifier<br>Agilent<br>(Below 1GHz)                     | 8447D                              | 2944A10638                      | Jun. 05, 2021 | Jun. 04, 2022 |
| Preamplifier<br>Agilent<br>(Above 1GHz)                     | 8449B                              | 3008A02367                      | Feb. 17, 2021 | Feb. 16, 2022 |
| RF signal cable<br>HUBER+SUHNER&EMCI                        | SUCOFLEX 104 &<br>EMC104-SM-SM8000 | CABLE-CH9-02<br>(248780+171006) | Jan. 16, 2021 | Jan. 15, 2022 |
| RF signal cable<br>HUBER+SUHNER                             | SUCOFLEX 104                       | CABLE-CH9-(250795/4)            | Jan. 16, 2021 | Jan. 15, 2022 |
| RF signal cable<br>Woken                                    | 8D-FB                              | Cable-CH9-01                    | Jun. 05, 2021 | Jun. 04, 2022 |
| Software<br>BV ADT  | ADT_Radiated_<br>V7.6.15.9.5       | NA                              | NA            | NA            |
| Antenna Tower<br>EMCO                                       | 2070/2080                          | 512.835.4684                    | NA            | NA            |
| Turn Table<br>EMCO  | 2087-2.03                          | NA                              | NA            | NA            |
| Antenna Tower & Turn<br>BV ADT                              | AT100                              | AT93021705                      | NA            | NA            |
| Turn Table<br>BV ADT  | TT100                              | TT93021705                      | NA            | NA            |
| Turn Table Controller<br>BV ADT                             | SC100                              | SC93021705                      | NA            | NA            |
| Boresight Antenna Fixture                                   | FBA-01                             | FBA-SIP01                       | NA            | NA            |
| Standard Temperature And<br>Humidity Chamber<br>GIANT FORCE | GTH-120-40-CP-AR                   | MAA1306-019                     | Sep. 10, 2021 | Sep. 09, 2022 |
| JFW 20dB attenuation  | 50HF-020-SMA                       | NA                              | NA            | NA            |
| DC power supply<br>Keysight                                 | U8002A                             | MY56330015                      | NA            | NA            |

Note: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

2. The test was performed in HwaYa Chamber 9.

### 3 General Information

#### 3.1 General Description of EUT

|                            |                                 |                       |
|----------------------------|---------------------------------|-----------------------|
| Product                    | Wireless Module                 |                       |
| Brand                      | Getac                           |                       |
| Test Model                 | EM9190                          |                       |
| Status of EUT              | Identical Prototype             |                       |
| Power Supply Rating        | 3.3 Vdc (Host equipment)        |                       |
| Modulation Type            | LTE: QPSK, 16QAM, 64QAM, 256QAM |                       |
| Operating Frequency        | LTE Band 7C                     | 2507.8MHz ~ 2560.0MHz |
|                            | LTE Band 38C                    | 2580.0MHz ~ 2610.0MHz |
|                            | LTE Band 41C                    | 2506.0MHz ~ 2680.0MHz |
|                            | LTE Band 66C                    | 1720.0MHz ~ 1770.0MHz |
|                            | LTE Band 66B                    | 1715.0MHz ~ 1775.0MHz |
| Max. EIRP Power            | LTE Band 7C (20MHz+20MHz)       | 168.93mW              |
|                            | LTE Band 7C (20MHz+15MHz)       | 163.57mW              |
|                            | LTE Band 38C (20MHz+20MHz)      | 140.83mW              |
|                            | LTE Band 41C (20MHz+20MHz)      | 177.30mW              |
|                            | LTE Band 41C (20MHz+15MHz)      | 169.32mW              |
|                            | LTE Band 41C (15MHz+10MHz)      | 160.95mW              |
|                            | LTE Band 66C (20MHz+20MHz)      | 178.20mW              |
| LTE Band 66B (10MHz+10MHz) | 168.77mW                        |                       |
| Antenna Type               | Refer to Note as below          |                       |
| Antenna Connector          | Refer to Note as below          |                       |
| Accessory Device           | N/A                             |                       |
| Cable Supplied             | N/A                             |                       |

Note:

- The EUT is authorized for use in specific End-product. The model of the K120 was chosen for final test.

| Product | Brand | Model   | Description           |
|---------|-------|---|-----------------------|
| Tablet  | Getac | K120  | For marketing purpose |
|         |       | K120G2  |                       |
|         |       | K120Y (Y= 10 , Y can be 0-9, a-z, A-Z, "-", "_" or blank for marketing purpose) |                       |

- The End-product contains following accessory devices.

| Product   | Brand   | Model              | Description   |
|-----------|---------|--------------------|---|
| Adapter 1 | Getac   | MTA190474W4        | I/P: 100-240Vac, 1.6A, 50-60Hz<br>O/P: 19.0Vdc, 4.74A (90.0W) |
| Adapter 2 | Chicony | A15-090P1A         | I/P: 100-240Vac, 1.2A, 50-60Hz<br>O/P: 19.0Vdc, 4.74A (90.0W) |
| Battery 1 | Getac   | BP3S1P2100S-01     | 11.1Vdc , 2040mAh, 24Wh                                       |
| Battery 2 | Getac   | BP4S1P3450P-01     | 14.4Vdc , 3300mAh, 48Wh                                       |
| Touch Pen | Getac   | 340142000064       | -   |
| Dock      | Getac   | K120 Keyboard Dock | -   |

3. The following antennas were provided to the EUT.

| LTE Band |      |           |            |      |      |       |
|----------|------|-----------|------------|------|------|-------|
| Ant. No. | Type | Connector | Gain (dBi) |      |      |       |
|          |      |           | B7         | B38  | B41  | B66   |
| Man      | PIFA | I-PEX     | 4.30       | 3.97 | 4.3  | 3.36  |
| AUX      | PIFA | I-PEX     | 4.29       | 4.36 | 4.36 | -0.17 |

\* The above Antenna information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications, the laboratory shall not be held responsible.

4. For CA mode configuration, please consult the manufacturer to declare the test mode.

5. The EUT support the following CA Configuration.

| Band Configuration |
|--------------------|
| 7C                 |
| 38C                |
| 41C                |
| 66B                |
| 66C                |



6. E-UTRA CA configuration / Bandwidth combination set.

| E-UTRA CA configuration / Bandwidth combination set |                          |   |                                      |                                    |                           |
|---|--------------------------|---|--------------------------------------|------------------------------------|---------------------------|
| E-UTRA CA configuration                             | Uplink CA configurations | Component carriers in order of increasing carrier frequency |                                      | Maximum aggregated bandwidth [MHz] | Bandwidth combination set |
|   |                          | Channel bandwidths for carrier [MHz]                        | Channel bandwidths for carrier [MHz] |                                    |                           |
| CA_7C   | CA_7C                    | 15  | 15                                   | 40                                 | 0                         |
|   |                          | 20  | 20                                   |                                    |                           |
|   |                          | 10  | 20                                   | 40                                 | 1                         |
|   |                          | 15  | 15, 20                               |                                    |                           |
|   |                          | 20  | 10, 15, 20                           |                                    |                           |
|   |                          | 15  | 10, 15                               | 40                                 | 2                         |
|   |                          | 20  | 15, 20                               |                                    |                           |
| CA_38C  | CA_38C                   | 15  | 15                                   | 40                                 | 0                         |
|   |                          | 20  | 20                                   |                                    |                           |
| CA_41C  | CA_41C                   | 10  | 20                                   | 40                                 | 0                         |
|   |                          | 15  | 15, 20                               |                                    |                           |
|   |                          | 20  | 10, 15, 20                           |                                    |                           |
|   |                          | 5, 10   | 20                                   | 40                                 | 1                         |
|   |                          | 15  | 15, 20                               |                                    |                           |
|   |                          | 20  | 5, 10, 15, 20                        | 40                                 | 2                         |
|   |                          | 10  | 15, 20                               |                                    |                           |
|   |                          | 15  | 10, 15, 20                           |                                    |                           |
|   |                          | 20  | 10, 15, 20                           | 40                                 | 3                         |
|   |                          | 10  | 20                                   |                                    |                           |
|   |                          | 20  | 20                                   |                                    |                           |
| CA_66B  | CA_66B                   | 5   | 5, 10, 15                            | 20                                 | 0                         |
|   |                          | 10  | 5, 10                                |                                    |                           |
|   |                          | 15  | 5                                    |                                    |                           |
| CA_66C  | CA_66C                   | 5   | 20                                   | 40                                 | 0                         |
|   |                          | 10  | 15, 20                               |                                    |                           |
|   |                          | 15  | 10, 15, 20                           |                                    |                           |
|   |                          | 20  | 5, 10, 15, 20                        |                                    |                           |

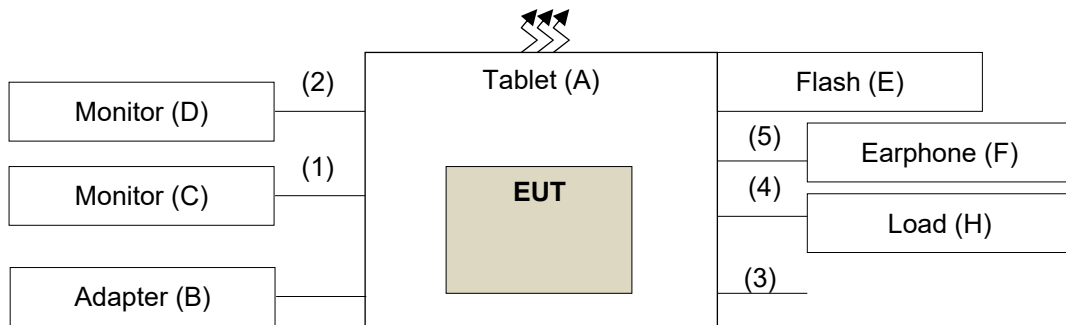
\*7C is continuous CA and maximum combination is 20M+20M and 20M+15M.

\*41C is continuous CA and maximum combination is 20M+20M, 20M+15M and 15M+10M.

\*38C/66C are continuous CA and maximum combination is 20M+20M.

\*66B is continuous CA and maximum combination is 10M+10M.

### 3.2 Configuration of System under Test



Remote site



#### 3.2.1 Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

| ID | Product                      | Brand   | Model No.   | Serial No.                   | FCC ID           | Remarks             |
|----|------------------------------|---------|-------------|------------------------------|------------------|---------------------|
| A. | Tablet                       | Getac   | K120        | NA                           | NA               | Provided by client. |
| B. | Adapter                      | Getac   | MTA190474W4 | NA                           | NA               | Provided by client. |
| C. | Monitor                      | DELL    | U2410       | CN-0J257M-72872-0A<br>6-02NL | FCC DoC Approved | -                   |
| D. | Monitor                      | DELL    | U2410       | CN-0J257M-72872-0A<br>6-08JL | FCC DoC Approved | -                   |
| E. | Flash                        | SanDisk | SDDDC3-032G | NA                           | NA               | -                   |
| F. | Earphone                     | APPLE   | MB770FE     | NA                           | NA               | -                   |
| G. | Radio Communication Analyzer | Anritsu | MT8821C     | 6261806803                   | NA               | -                   |
| H. | Load                         | NA      | NA          | NA                           | NA               | -                   |

Note:

1. All power cords of the above support units are non-shielded (1.8m).
2. Item A acted as a communication partner to transfer data.

| ID | Descriptions  | Qty. | Length (m) | Shielding (Yes/No) | Cores (Qty.) | Remarks     |
|----|---------------|------|------------|--------------------|--------------|-------------|
| 1. | Display cable | 1    | 1.8        | N                  | 0            | -           |
| 2. | HDMI cable    | 1    | 2          | Y                  | 0            | -           |
| 3. | RS232 cable   | 1    | 1.5        | N                  | 0            | -           |
| 4. | LAN cable     | 1    | 1.8        | N                  | 0            | RJ45, Cat5e |
| 5. | Audio cable   | 1    | 1.2        | N                  | 0            | -           |

### 3.3 Test Mode Applicability and Tested Channel Detail

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, XYZ axis and antenna ports. The worst case was found when positioned on X-plane. Following channel(s) was (were) selected for the final test as listed below.

#### LTE Band 7 (CA 7C)

| EUT Configure Mode | Test item                       | Available channel                | Tested channel  | Channel Bandwidth | Modulation                          | Mode   |
|--------------------|---------------------------------|----------------------------------|---|-------------------|-------------------------------------|--|
| -                  | EIRP                            | 20850 to 21152<br>21048 to 21350 | 20850(2510.0MHz)+<br>21048(2529.8MHz),<br>21001(2525.1MHz)+<br>21199(2544.9MHz),<br>21152(2540.2MHz)+<br>21350(2560.0MHz) | 20MHz<br>+ 20MHz  | QPSK / 16QAM /<br>64QAM /<br>256QAM | 1 RB / 0 RB Offset<br>1 RB / 74 RB Offset<br>1 RB / 99 RB Offset |
| -                  | EIRP                            | 20850 to 21201<br>21021 to 21372 | 20850(2510.0MHz)+<br>21021(2527.1MHz)<br>21026(2527.6MHz)+<br>21197(2544.7MHz),<br>21201(2545.1MHz)+<br>21372(2562.2MHz)  | 20MHz<br>+ 15MHz  | QPSK / 16QAM /<br>64QAM /<br>256QAM | 1 RB / 0 RB Offset<br>1 RB / 74 RB Offset<br>1 RB / 99 RB Offset |
| -                  | Radiated Emission<br>Below 1GHz | 20850 to 21152<br>21048 to 21350 | 20850(2510.0MHz)+<br>21048(2529.8MHz)   | 20MHz<br>+ 20MHz  | QPSK                                | 1 RB / 0 RB Offset<br>1 RB / 74 RB Offset                        |
| -                  | Radiated Emission<br>Above 1GHz | 20850 to 21152<br>21048 to 21350 | 20850(2510.0MHz)+<br>21048(2529.8MHz),<br>21001(2525.1MHz)+<br>21199(2544.9MHz),<br>21152(2540.2MHz)+<br>21350(2560.0MHz) | 20MHz<br>+ 20MHz  | QPSK                                | 1 RB / 0 RB Offset<br>1 RB / 74 RB Offset                        |

Note: This device was tested under all bandwidths, RB configurations and modulations. The worst case was found in QPSK modulation.

#### LTE Band 38 (CA 38C)

| EUT Configure Mode | Test item                       | Available channel                | Tested channel  | Channel Bandwidth | Modulation                          | Mode                                      |
|--------------------|---------------------------------|----------------------------------|---|-------------------|-------------------------------------|---|
| -                  | EIRP                            | 37850 to 37952<br>38048 to 38150 | 37850(2580.0MHz)+<br>38048(2599.8MHz),<br>37901(2585.1MHz)+<br>38099(2604.9MHz),<br>37952(2590.2MHz)+<br>38150(2610.0MHz) | 20MHz<br>+ 20MHz  | QPSK / 16QAM /<br>64QAM /<br>256QAM | 1 RB / 0 RB Offset<br>1 RB / 99 RB Offset |
| -                  | Radiated Emission<br>Below 1GHz | 37850 to 37952<br>38048 to 38150 | 37952(2590.2MHz)+<br>38150(2610.0MHz)   | 20MHz<br>+ 20MHz  | QPSK                                | 1 RB / 0 RB Offset<br>1 RB / 99 RB Offset |
| -                  | Radiated Emission<br>Above 1GHz | 37850 to 37952<br>38048 to 38150 | 37850(2580.0MHz)+<br>38048(2599.8MHz),<br>37901(2585.1MHz)+<br>38099(2604.9MHz),<br>37952(2590.2MHz)+<br>38150(2610.0MHz) | 20MHz<br>+ 20MHz  | QPSK                                | 1 RB / 0 RB Offset<br>1 RB / 99 RB Offset |

Note: This device was tested under all bandwidths, RB configurations and modulations. The worst case was found in QPSK modulation.

### LTE Band 41 (CA 41C)

| EUT Configure Mode | Test item                       | Available channel                | Tested channel  | Channel Bandwidth | Modulation                          | Mode   |
|--------------------|---------------------------------|----------------------------------|---|-------------------|-------------------------------------|--|
| -                  | EIRP                            | 39750 to 41292<br>39948 to 41490 | 39750(2506.0MHz)+<br>39948(2525.8MHz),<br>40521(2583.1MHz)+<br>40719(2602.9MHz),<br>41292(2660.2MHz)+<br>41490(2680.0MHz) | 20MHz<br>+ 20MHz  | QPSK / 16QAM /<br>64QAM /<br>256QAM | 1 RB / 0 RB Offset<br>1 RB / 99 RB Offset                        |
| -                  |                                 | 39750 to 41341<br>39921 to 51512 | 39750(2506.0MHz)+<br>39921(2523.1MHz),<br>40546(2585.6MHz)+<br>40717(2602.7MHz),<br>41341(2665.1MHz)+<br>51512(2682.2MHz) | 20MHz<br>+ 15MHz  | QPSK / 16QAM /<br>64QAM /<br>256QAM | 1 RB / 0 RB Offset<br>1 RB / 74 RB Offset<br>1 RB / 99 RB Offset |
| -                  |                                 | 39725 to 41417<br>39845 to 41537 | 39725(2503.5MHz)+<br>39845(2515.5MHz),<br>40571(2588.1MHz)+<br>40691(2600.1MHz),<br>41417(2672.7MHz)+<br>41537(2684.7MHz) | 15MHz<br>+ 10MHz  | QPSK / 16QAM /<br>64QAM /<br>256QAM | 1 RB / 0 RB Offset<br>1 RB / 49 RB Offset<br>1 RB / 74 RB Offset |
| -                  | Radiated Emission<br>Below 1GHz | 39750 to 41292<br>39948 to 41490 | 39750(2506.0MHz)+<br>39948(2525.8MHz),  | 20MHz<br>+ 20MHz  | QPSK                                | 1 RB / 0 RB Offset<br>1 RB / 99 RB Offset                        |
| -                  | Radiated Emission<br>Above 1GHz | 39750 to 41292<br>39948 to 41490 | 39750(2506.0MHz)+<br>39948(2525.8MHz),<br>40521(2583.1MHz)+<br>40719(2602.9MHz),<br>41292(2660.2MHz)+<br>41490(2680.0MHz) | 20MHz<br>+ 20MHz  | QPSK                                | 1 RB / 0 RB Offset<br>1 RB / 99 RB Offset                        |

Note: This device was tested under all bandwidths, RB configurations and modulations. The worst case was found in QPSK modulation.

### LTE Band 66 (CA 66C)

| EUT Configure Mode | Test item                       | Available channel                    | Tested channel  | Channel Bandwidth | Modulation                          | Mode                                      |
|--------------------|---------------------------------|--------------------------------------|---|-------------------|-------------------------------------|---|
| -                  | EIRP                            | 132072 to 132374<br>132270 to 132572 | 132072(1720.0MHz)+<br>132270(1739.8MHz),<br>132323(1745.1MHz)+<br>132521(1764.9MHz),<br>132374(1750.2MHz)+<br>132572(1770.0MHz) | 20MHz<br>+ 20MHz  | QPSK / 16QAM /<br>64QAM /<br>256QAM | 1 RB / 0 RB Offset<br>1 RB / 99 RB Offset |
| -                  | Radiated Emission<br>Below 1GHz | 132072 to 132374<br>132270 to 132572 | 132374(1750.2MHz)+<br>132572(1770.0MHz)   | 20MHz<br>+ 20MHz  | QPSK                                | 1 RB / 0 RB Offset<br>1 RB / 99 RB Offset |
| -                  | Radiated Emission<br>Above 1GHz | 132072 to 132374<br>132270 to 132572 | 132072(1720.0MHz)+<br>132270(1739.8MHz),<br>132323(1745.1MHz)+<br>132521(1764.9MHz),<br>132374(1750.2MHz)+<br>132572(1770.0MHz) | 20MHz<br>+ 20MHz  | QPSK                                | 1 RB / 0 RB Offset<br>1 RB / 99 RB Offset |

Note: This device was tested under all bandwidths, RB configurations and modulations. The worst case was found in QPSK modulation.

LTE Band 66 (CA 66B)

| EUT Configure Mode | Test item                       | Available channel                    | Tested channel  | Channel Bandwidth | Modulation                          | Mode                                      |
|--------------------|---------------------------------|--------------------------------------|---|-------------------|-------------------------------------|---|
| -                  | EIRP                            | 132022 to 132523<br>132121 to 132622 | 132022(1715.0MHz)+<br>132121(1724.9MHz),<br>132373(1750.1MHz)+<br>132472(1760.0MHz),<br>132523(1765.1MHz)+<br>132622(1775.0MHz) | 10MHz<br>+ 10MHz  | QPSK / 16QAM /<br>64QAM /<br>256QAM | 1 RB / 0 RB Offset<br>1 RB / 49 RB Offset |
| -                  | Radiated Emission<br>Above 1GHz | 132022 to 132523<br>132121 to 132622 | 132373(1750.1MHz)+<br>132472(1760.0MHz)   | 10MHz<br>+ 10MHz  | QPSK                                | 1 RB / 49 RB Offset<br>1 RB / 0 RB Offset |
| -                  | Radiated Emission<br>Above 1GHz | 132022 to 132523<br>132121 to 132622 | 132022(1715.0MHz)+<br>132121(1724.9MHz),<br>132373(1750.1MHz)+<br>132472(1760.0MHz),<br>132523(1765.1MHz)+<br>132622(1775.0MHz) | 10MHz<br>+ 10MHz  | QPSK                                | 1 RB / 49 RB Offset<br>1 RB / 0 RB Offset |

Note: This device was tested under all bandwidths, RB configurations and modulations. The worst case was found in QPSK modulation.

Test Condition:

| Test Item         | Environmental Conditions | Input Power  | Tested By            |
|-------------------|--------------------------|--------------|----------------------|
| EIRP              | 22deg. C, 66%RH          | 3.3 Vdc      | Karl Lee             |
| Radiated Emission | 22deg. C, 66%RH          | 120Vac, 60Hz | Rex Wang,<br>Hans Wu |

### **3.4 EUT Operating Conditions**

The EUT makes a call to the communication simulator. The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency

### **3.5 General Description of Applied Standards and References**

The EUT is a RF Product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards and References:

**Test Standard:**

**FCC 47 CFR Part 2**

**FCC 47 CFR Part 27**

**ANSI/TIA/EIA-603-E 2016**

**ANSI 63.26-2015**

All test items have been performed and recorded as per the above standards.

**References Test Guidance:**

**KDB 971168 D01 Power Meas License Digital Systems v03r01**

All test items have been performed as a reference to the above KDB test guidance.

## 4 Test Types and Results

### 4.1 Output Power Measurement

#### 4.1.1 Limits of Output Power Measurement

LTE Band 66:

Mobile / Portable station are limited to 1 watts e.i.r.p.

LTE Band 7, LTE Band 38, LTE Band 41:

Mobile stations are limited to 2.0 watts EIRP. All user stations are limited to 2.0 watts transmitter output power.

#### 4.1.2 Test Procedures

##### Conducted Power Measurement:

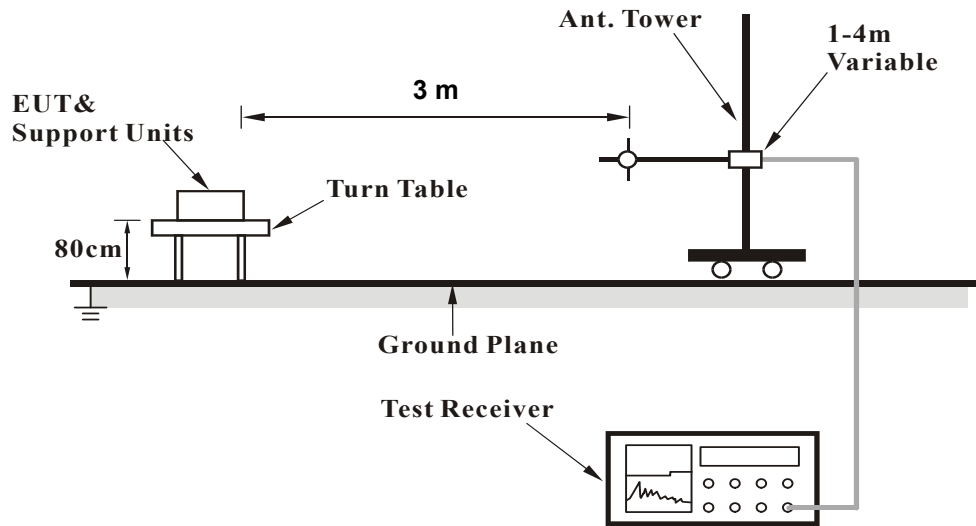
The EUT was set up for the maximum power with LTE link data modulation and link up with simulator. Set the EUT to transmit under low, middle and high channel and record the power level shown on simulator.

##### EIRP / ERP Measurement:

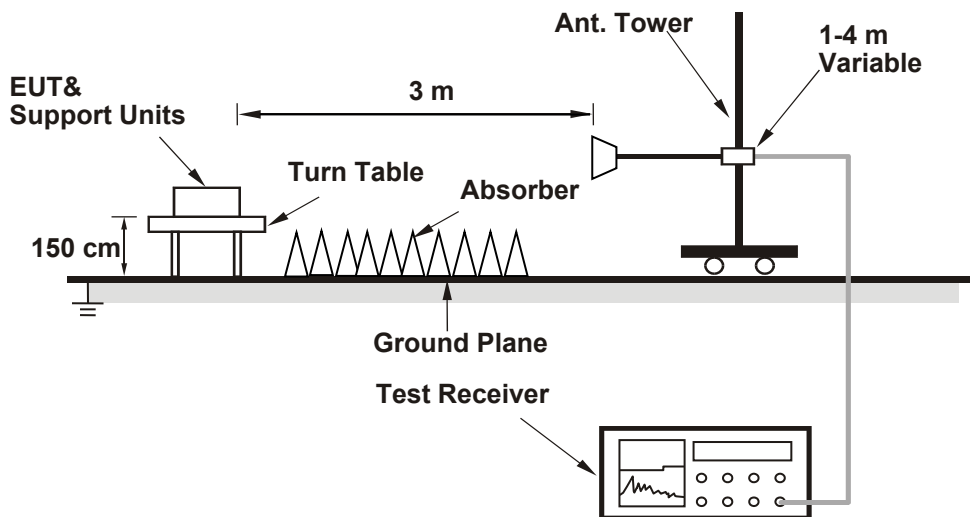
- a. All measurements were done at low, middle and high operational frequency range. RBW is 10MHz, 15 MHz and 20MHz for LTE mode, VBW  $\geq 3 \times$  RBW. When the RBW setting value exceeds the maximum value set by the Spectrum instrument, the measurement method refers to ANSI C63.26 section 5.2.4.4.
- b. In the semi-anechoic chamber, EUT placed on the 0.8 m (below or equal 1 GHz) and/or 1.5 m (above 1 GHz) height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1 m to 4 m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.
- c.  $EIRP = \text{Output power level} - \text{TX cable loss} + \text{Antenna gain of substitution horn}$ . E.R.P power can be calculated form E.I.R.P power by subtracting the gain of dipole,  $E.R.P \text{ power} = E.I.R.P \text{ power} - 2.15 \text{ dB}$ . Correction Factor (includes EIRP and ERP unit conversion factor) = Antenna gain of substitution horn. – Tx cable loss. Measurement method refers to ANSI C63.26 section 5.2.7 & 5.2.4.

### 4.1.3 Test Setup

**EIRP / ERP Measurement:**  
**<Radiated Emission below or equal 1 GHz>**



**<Radiated Emission above 1 GHz>**



For the actual test configuration, please refer to the attached file (Test Setup Photo).

**Conducted Power Measurement:**





#### 4.1.4 Test Results

##### Conducted Output Power (dBm)

##### LTE Band 7 (CA 7C)

| Con-figuration        | Com-bination | PCC  |          |             |         |           |          |                | SCC  |          |             |         |           |          |                | Measurement Power                |  |
|-----------------------|--------------|------|----------|-------------|---------|-----------|----------|----------------|------|----------|-------------|---------|-----------|----------|----------------|----------------------------------|--|
|                       |              | Band | BW (MHz) | Modu-lation | RB Size | RB Offset | UL Chan. | UL Freq. (MHz) | Band | BW (MHz) | Modu-lation | RB Size | RB Offset | UL Chan. | UL Freq. (MHz) | Tx Power with UL-CA Active (dBm) |  |
|                       |              |      |          |             |         |           |          |                |      |          |             |         |           |          |                | Total                            |  |
| Intra Band Contiguous | CA_7C        | 7    | 20       | QPSK        | 1       | 0         | 20850    | 2510           | 7    | 20       | QPSK        | 1       | 99        | 21048    | 2529.8         | 15.63                            |  |
|                       |              |      |          |             | 1       | 99        |          |                |      |          |             | 23.17   |           |          |                |                                  |  |
|                       |              | 7    | 20       | QPSK        | 1       | 0         | 21001    | 2525.1         | 7    | 20       | QPSK        | 1       | 99        | 21199    | 2544.9         | 15.89                            |  |
|                       |              |      |          |             | 1       | 99        |          |                |      |          |             | 23.07   |           |          |                |                                  |  |
|                       |              | 7    | 20       | QPSK        | 1       | 0         | 21152    | 2540.2         | 7    | 20       | QPSK        | 1       | 99        | 21350    | 2560           | 15.54                            |  |
|                       |              |      |          |             | 1       | 99        |          |                |      |          |             | 22.82   |           |          |                |                                  |  |

| Con-figuration        | Com-bination | PCC  |          |             |         |           |          |                | SCC  |          |             |         |           |          |                | Measurement Power                |  |
|-----------------------|--------------|------|----------|-------------|---------|-----------|----------|----------------|------|----------|-------------|---------|-----------|----------|----------------|----------------------------------|--|
|                       |              | Band | BW (MHz) | Modu-lation | RB Size | RB Offset | UL Chan. | UL Freq. (MHz) | Band | BW (MHz) | Modu-lation | RB Size | RB Offset | UL Chan. | UL Freq. (MHz) | Tx Power with UL-CA Active (dBm) |  |
|                       |              |      |          |             |         |           |          |                |      |          |             |         |           |          |                | Total                            |  |
| Intra Band Contiguous | CA_7C        | 7    | 20       | QPSK        | 1       | 0         | 20850    | 2510           | 7    | 15       | QPSK        | 1       | 99        | 21021    | 2527.1         | 15.53                            |  |
|                       |              |      |          |             | 1       | 99        |          |                |      |          |             | 23.02   |           |          |                |                                  |  |
|                       |              | 7    | 20       | QPSK        | 1       | 0         | 21001    | 2525.1         | 7    | 15       | QPSK        | 1       | 99        | 21197    | 2544.7         | 15.74                            |  |
|                       |              |      |          |             | 1       | 99        |          |                |      |          |             | 22.99   |           |          |                |                                  |  |
|                       |              | 7    | 20       | QPSK        | 1       | 0         | 21152    | 2540.2         | 7    | 15       | QPSK        | 1       | 99        | 21372    | 2562.2         | 15.45                            |  |
|                       |              |      |          |             | 1       | 99        |          |                |      |          |             | 22.70   |           |          |                |                                  |  |

| Con-figuration        | Com-bination | PCC  |          |             |         |           |          |                | SCC  |          |             |         |           |          |                | Measurement Power                |  |
|-----------------------|--------------|------|----------|-------------|---------|-----------|----------|----------------|------|----------|-------------|---------|-----------|----------|----------------|----------------------------------|--|
|                       |              | Band | BW (MHz) | Modu-lation | RB Size | RB Offset | UL Chan. | UL Freq. (MHz) | Band | BW (MHz) | Modu-lation | RB Size | RB Offset | UL Chan. | UL Freq. (MHz) | Tx Power with UL-CA Active (dBm) |  |
|                       |              |      |          |             |         |           |          |                |      |          |             |         |           |          |                | Total                            |  |
| Intra Band Contiguous | CA_7C        | 7    | 20       | 16QAM       | 1       | 0         | 20850    | 2510           | 7    | 20       | 16QAM       | 1       | 99        | 21048    | 2529.8         | 14.77                            |  |
|                       |              |      |          |             | 1       | 99        |          |                |      |          |             | 22.38   |           |          |                |                                  |  |
|                       |              | 7    | 20       | 16QAM       | 1       | 0         | 21001    | 2525.1         | 7    | 20       | 16QAM       | 1       | 99        | 21199    | 2544.9         | 15.22                            |  |
|                       |              |      |          |             | 1       | 99        |          |                |      |          |             | 22.34   |           |          |                |                                  |  |
|                       |              | 7    | 20       | 16QAM       | 1       | 0         | 21152    | 2540.2         | 7    | 20       | 16QAM       | 1       | 99        | 21350    | 2560           | 14.77                            |  |
|                       |              |      |          |             | 1       | 99        |          |                |      |          |             | 21.89   |           |          |                |                                  |  |

| Con-figuration        | Com-bination | PCC  |          |             |         |           |          |                | SCC  |          |             |         |           |          |                | Measurement Power                |  |
|-----------------------|--------------|------|----------|-------------|---------|-----------|----------|----------------|------|----------|-------------|---------|-----------|----------|----------------|----------------------------------|--|
|                       |              | Band | BW (MHz) | Modu-lation | RB Size | RB Offset | UL Chan. | UL Freq. (MHz) | Band | BW (MHz) | Modu-lation | RB Size | RB Offset | UL Chan. | UL Freq. (MHz) | Tx Power with UL-CA Active (dBm) |  |
|                       |              |      |          |             |         |           |          |                |      |          |             |         |           |          |                | Total                            |  |
| Intra Band Contiguous | CA_7C        | 7    | 20       | 16QAM       | 1       | 0         | 20850    | 2510           | 7    | 15       | 16QAM       | 1       | 99        | 21021    | 2527.1         | 14.65                            |  |
|                       |              |      |          |             | 1       | 99        |          |                |      |          |             | 22.24   |           |          |                |                                  |  |
|                       |              | 7    | 20       | 16QAM       | 1       | 0         | 21001    | 2525.1         | 7    | 15       | 16QAM       | 1       | 99        | 21197    | 2544.7         | 15.16                            |  |
|                       |              |      |          |             | 1       | 99        |          |                |      |          |             | 22.22   |           |          |                |                                  |  |
|                       |              | 7    | 20       | 16QAM       | 1       | 0         | 21152    | 2540.2         | 7    | 15       | 16QAM       | 1       | 99        | 21372    | 2562.2         | 14.61                            |  |
|                       |              |      |          |             | 1       | 99        |          |                |      |          |             | 21.79   |           |          |                |                                  |  |

| Con-figuration         | Com-bination | PCC  |          |             |         |           |          |                | SCC  |          |             |         |           |          |                | Measurement Power                |       |
|------------------------|--------------|------|----------|-------------|---------|-----------|----------|----------------|------|----------|-------------|---------|-----------|----------|----------------|----------------------------------|-------|
|                        |              | Band | BW (MHz) | Modu-lation | RB Size | RB Offset | UL Chan. | UL Freq. (MHz) | Band | BW (MHz) | Modu-lation | RB Size | RB Offset | UL Chan. | UL Freq. (MHz) | Tx Power with UL-CA Active (dBm) | Total |
| Intra Band Conti-guous | CA_7C        | 7    | 20       | 64QAM       | 1       | 0         | 20850    | 2510           | 7    | 20       | 64QAM       | 1       | 99        | 21048    | 2529.8         | 14.14                            |       |
|                        |              |      |          |             | 1       | 99        |          |                |      |          |             | 21.67   |           |          |                |                                  |       |
|                        |              | 7    | 20       | 64QAM       | 1       | 0         | 21001    | 2525.1         | 7    | 20       | 64QAM       | 1       | 99        | 21199    | 2544.9         | 14.39                            |       |
|                        |              |      |          |             | 1       | 99        |          |                |      |          |             | 21.77   |           |          |                |                                  |       |
|                        |              | 7    | 20       | 64QAM       | 1       | 0         | 21152    | 2540.2         | 7    | 20       | 64QAM       | 1       | 99        | 21350    | 2560           | 14.09                            |       |
|                        |              |      |          |             | 1       | 99        |          |                |      |          |             | 21.21   |           |          |                |                                  |       |

| Con-figuration         | Com-bination | PCC  |          |             |         |           |          |                | SCC  |          |             |         |           |          |                | Measurement Power                |       |
|------------------------|--------------|------|----------|-------------|---------|-----------|----------|----------------|------|----------|-------------|---------|-----------|----------|----------------|----------------------------------|-------|
|                        |              | Band | BW (MHz) | Modu-lation | RB Size | RB Offset | UL Chan. | UL Freq. (MHz) | Band | BW (MHz) | Modu-lation | RB Size | RB Offset | UL Chan. | UL Freq. (MHz) | Tx Power with UL-CA Active (dBm) | Total |
| Intra Band Conti-guous | CA_7C        | 7    | 20       | 64QAM       | 1       | 0         | 20850    | 2510           | 7    | 15       | 64QAM       | 1       | 99        | 21021    | 2527.1         | 14.03                            |       |
|                        |              |      |          |             | 1       | 99        |          |                |      |          |             | 21.57   |           |          |                |                                  |       |
|                        |              | 7    | 20       | 64QAM       | 1       | 0         | 21001    | 2525.1         | 7    | 15       | 64QAM       | 1       | 99        | 21197    | 2544.7         | 14.30                            |       |
|                        |              |      |          |             | 1       | 99        |          |                |      |          |             | 21.65   |           |          |                |                                  |       |
|                        |              | 7    | 20       | 64QAM       | 1       | 0         | 21152    | 2540.2         | 7    | 15       | 64QAM       | 1       | 99        | 21372    | 2562.2         | 13.95                            |       |
|                        |              |      |          |             | 1       | 99        |          |                |      |          |             | 21.04   |           |          |                |                                  |       |

| Con-figuration         | Com-bination | PCC  |          |             |         |           |          |                | SCC  |          |             |         |           |          |                | Measurement Power                |       |
|------------------------|--------------|------|----------|-------------|---------|-----------|----------|----------------|------|----------|-------------|---------|-----------|----------|----------------|----------------------------------|-------|
|                        |              | Band | BW (MHz) | Modu-lation | RB Size | RB Offset | UL Chan. | UL Freq. (MHz) | Band | BW (MHz) | Modu-lation | RB Size | RB Offset | UL Chan. | UL Freq. (MHz) | Tx Power with UL-CA Active (dBm) | Total |
| Intra Band Conti-guous | CA_7C        | 7    | 20       | 256QAM      | 1       | 0         | 20850    | 2510           | 7    | 20       | 256QAM      | 1       | 99        | 21048    | 2529.8         | 13.31                            |       |
|                        |              |      |          |             | 1       | 99        |          |                |      |          |             | 20.88   |           |          |                |                                  |       |
|                        |              | 7    | 20       | 256QAM      | 1       | 0         | 21001    | 2525.1         | 7    | 20       | 256QAM      | 1       | 99        | 21199    | 2544.9         | 13.58                            |       |
|                        |              |      |          |             | 1       | 99        |          |                |      |          |             | 20.91   |           |          |                |                                  |       |
|                        |              | 7    | 20       | 256QAM      | 1       | 0         | 21152    | 2540.2         | 7    | 20       | 256QAM      | 1       | 99        | 21350    | 2560           | 13.41                            |       |
|                        |              |      |          |             | 1       | 99        |          |                |      |          |             | 20.24   |           |          |                |                                  |       |

| Con-figuration         | Com-bination | PCC  |          |             |         |           |          |                | SCC  |          |             |         |           |          |                | Measurement Power                |       |
|------------------------|--------------|------|----------|-------------|---------|-----------|----------|----------------|------|----------|-------------|---------|-----------|----------|----------------|----------------------------------|-------|
|                        |              | Band | BW (MHz) | Modu-lation | RB Size | RB Offset | UL Chan. | UL Freq. (MHz) | Band | BW (MHz) | Modu-lation | RB Size | RB Offset | UL Chan. | UL Freq. (MHz) | Tx Power with UL-CA Active (dBm) | Total |
| Intra Band Conti-guous | CA_7C        | 7    | 20       | 256QAM      | 1       | 0         | 20850    | 2510           | 7    | 15       | 256QAM      | 1       | 99        | 21021    | 2527.1         | 13.19                            |       |
|                        |              |      |          |             | 1       | 99        |          |                |      |          |             | 20.72   |           |          |                |                                  |       |
|                        |              | 7    | 20       | 256QAM      | 1       | 0         | 21001    | 2525.1         | 7    | 15       | 256QAM      | 1       | 99        | 21197    | 2544.7         | 13.46                            |       |
|                        |              |      |          |             | 1       | 99        |          |                |      |          |             | 20.82   |           |          |                |                                  |       |
|                        |              | 7    | 20       | 256QAM      | 1       | 0         | 21152    | 2540.2         | 7    | 15       | 256QAM      | 1       | 99        | 21372    | 2562.2         | 13.31                            |       |
|                        |              |      |          |             | 1       | 99        |          |                |      |          |             | 20.08   |           |          |                |                                  |       |

### LTE Band 38 (CA 38C)

| Con-figuration         | Com-bination | PCC  |          |             |         |           |          |                | SCC  |          |             |         |           |          |                | Measurement Power                |  |
|------------------------|--------------|------|----------|-------------|---------|-----------|----------|----------------|------|----------|-------------|---------|-----------|----------|----------------|----------------------------------|--|
|                        |              | Band | BW (MHz) | Modu-lation | RB Size | RB Offset | UL Chan. | UL Freq. (MHz) | Band | BW (MHz) | Modu-lation | RB Size | RB Offset | UL Chan. | UL Freq. (MHz) | Tx Power with UL-CA Active (dBm) |  |
|                        |              |      |          |             |         |           |          |                |      |          |             |         |           |          |                | Total                            |  |
| Intra Band Conti-guous | CA_38C       | 38   | 20       | QPSK        | 1       | 0         | 37850    | 2580           | 38   | 20       | QPSK        | 1       | 99        | 38048    | 2599.8         | 18.42                            |  |
|                        |              |      |          |             | 1       | 99        |          |                |      |          |             | 22.38   |           |          |                |                                  |  |
|                        |              | 38   | 20       | QPSK        | 1       | 0         | 37901    | 2585.1         | 38   | 20       | QPSK        | 1       | 99        | 38099    | 2604.9         | 18.27                            |  |
|                        |              |      |          |             | 1       | 99        |          |                |      |          |             | 22.33   |           |          |                |                                  |  |
|                        |              | 38   | 20       | QPSK        | 1       | 0         | 37952    | 2590.2         | 38   | 20       | QPSK        | 1       | 99        | 38150    | 2610           | 18.21                            |  |
|                        |              |      |          |             | 1       | 99        |          |                |      |          |             | 22.31   |           |          |                |                                  |  |

| Con-figuration         | Com-bination | PCC  |          |             |         |           |          |                | SCC  |          |             |         |           |          |                | Measurement Power                |  |
|------------------------|--------------|------|----------|-------------|---------|-----------|----------|----------------|------|----------|-------------|---------|-----------|----------|----------------|----------------------------------|--|
|                        |              | Band | BW (MHz) | Modu-lation | RB Size | RB Offset | UL Chan. | UL Freq. (MHz) | Band | BW (MHz) | Modu-lation | RB Size | RB Offset | UL Chan. | UL Freq. (MHz) | Tx Power with UL-CA Active (dBm) |  |
|                        |              |      |          |             |         |           |          |                |      |          |             |         |           |          |                | Total                            |  |
| Intra Band Conti-guous | CA_38C       | 38   | 20       | 16QAM       | 1       | 0         | 37850    | 2580           | 38   | 20       | 16QAM       | 1       | 99        | 38048    | 2599.8         | 17.61                            |  |
|                        |              |      |          |             | 1       | 99        |          |                |      |          |             | 21.85   |           |          |                |                                  |  |
|                        |              | 38   | 20       | 16QAM       | 1       | 0         | 37901    | 2585.1         | 38   | 20       | 16QAM       | 1       | 99        | 38099    | 2604.9         | 17.44                            |  |
|                        |              |      |          |             | 1       | 99        |          |                |      |          |             | 21.45   |           |          |                |                                  |  |
|                        |              | 38   | 20       | 16QAM       | 1       | 0         | 37952    | 2590.2         | 38   | 20       | 16QAM       | 1       | 99        | 38150    | 2610           | 17.31                            |  |
|                        |              |      |          |             | 1       | 99        |          |                |      |          |             | 21.58   |           |          |                |                                  |  |

| Con-figuration         | Com-bination | PCC  |          |             |         |           |          |                | SCC  |          |             |         |           |          |                | Measurement Power                |  |
|------------------------|--------------|------|----------|-------------|---------|-----------|----------|----------------|------|----------|-------------|---------|-----------|----------|----------------|----------------------------------|--|
|                        |              | Band | BW (MHz) | Modu-lation | RB Size | RB Offset | UL Chan. | UL Freq. (MHz) | Band | BW (MHz) | Modu-lation | RB Size | RB Offset | UL Chan. | UL Freq. (MHz) | Tx Power with UL-CA Active (dBm) |  |
|                        |              |      |          |             |         |           |          |                |      |          |             |         |           |          |                | Total                            |  |
| Intra Band Conti-guous | CA_38C       | 38   | 20       | 64QAM       | 1       | 0         | 37850    | 2580           | 38   | 20       | 64QAM       | 1       | 99        | 38048    | 2599.8         | 16.68                            |  |
|                        |              |      |          |             | 1       | 99        |          |                |      |          |             | 20.99   |           |          |                |                                  |  |
|                        |              | 38   | 20       | 64QAM       | 1       | 0         | 37901    | 2585.1         | 38   | 20       | 64QAM       | 1       | 99        | 38099    | 2604.9         | 16.62                            |  |
|                        |              |      |          |             | 1       | 99        |          |                |      |          |             | 20.69   |           |          |                |                                  |  |
|                        |              | 38   | 20       | 64QAM       | 1       | 0         | 37952    | 2590.2         | 38   | 20       | 64QAM       | 1       | 99        | 38150    | 2610           | 16.57                            |  |
|                        |              |      |          |             | 1       | 99        |          |                |      |          |             | 20.81   |           |          |                |                                  |  |

| Con-figuration         | Com-bination | PCC  |          |             |         |           |          |                | SCC  |          |             |         |           |          |                | Measurement Power                |  |
|------------------------|--------------|------|----------|-------------|---------|-----------|----------|----------------|------|----------|-------------|---------|-----------|----------|----------------|----------------------------------|--|
|                        |              | Band | BW (MHz) | Modu-lation | RB Size | RB Offset | UL Chan. | UL Freq. (MHz) | Band | BW (MHz) | Modu-lation | RB Size | RB Offset | UL Chan. | UL Freq. (MHz) | Tx Power with UL-CA Active (dBm) |  |
|                        |              |      |          |             |         |           |          |                |      |          |             |         |           |          |                | Total                            |  |
| Intra Band Conti-guous | CA_38C       | 38   | 20       | 256QAM      | 1       | 0         | 37850    | 2580           | 38   | 20       | 256QAM      | 1       | 99        | 38048    | 2599.8         | 15.85                            |  |
|                        |              |      |          |             | 1       | 99        |          |                |      |          |             | 20.23   |           |          |                |                                  |  |
|                        |              | 38   | 20       | 256QAM      | 1       | 0         | 37901    | 2585.1         | 38   | 20       | 256QAM      | 1       | 99        | 38099    | 2604.9         | 15.87                            |  |
|                        |              |      |          |             | 1       | 99        |          |                |      |          |             | 19.78   |           |          |                |                                  |  |
|                        |              | 38   | 20       | 256QAM      | 1       | 0         | 37952    | 2590.2         | 38   | 20       | 256QAM      | 1       | 99        | 38150    | 2610           | 15.84                            |  |
|                        |              |      |          |             | 1       | 99        |          |                |      |          |             | 20.07   |           |          |                |                                  |  |

### LTE Band 41 (CA 41C)

| Con-figuration         | Com-bination | PCC  |          |             |         |           |          |                | SCC  |          |             |         |           |          |                | Measurement Power                |  |
|------------------------|--------------|------|----------|-------------|---------|-----------|----------|----------------|------|----------|-------------|---------|-----------|----------|----------------|----------------------------------|--|
|                        |              | Band | BW (MHz) | Modu-lation | RB Size | RB Offset | UL Chan. | UL Freq. (MHz) | Band | BW (MHz) | Modu-lation | RB Size | RB Offset | UL Chan. | UL Freq. (MHz) | Tx Power with UL-CA Active (dBm) |  |
|                        |              |      |          |             |         |           |          |                |      |          |             |         |           |          |                | Total                            |  |
| Intra Band Conti-guous | CA_41C       | 41   | 20       | QPSK        | 1       | 0         | 39750    | 2506           | 41   | 20       | QPSK        | 1       | 99        | 39948    | 2525.8         | 19.07                            |  |
|                        |              |      |          |             | 1       | 99        |          |                |      |          |             | 23.57   |           |          |                |                                  |  |
|                        |              | 41   | 20       | QPSK        | 1       | 0         | 40521    | 2583.1         | 41   | 20       | QPSK        | 1       | 99        | 40719    | 2602.9         | 19.02                            |  |
|                        |              |      |          |             | 1       | 99        |          |                |      |          |             | 23.50   |           |          |                |                                  |  |
|                        |              | 41   | 20       | QPSK        | 1       | 0         | 41292    | 2660.2         | 41   | 20       | QPSK        | 1       | 99        | 41490    | 2680           | 18.37                            |  |
|                        |              |      |          |             | 1       | 99        |          |                |      |          |             | 23.07   |           |          |                |                                  |  |

| Con-figuration         | Com-bination | PCC  |          |             |         |           |          |                | SCC  |          |             |         |           |          |                | Measurement Power                |  |
|------------------------|--------------|------|----------|-------------|---------|-----------|----------|----------------|------|----------|-------------|---------|-----------|----------|----------------|----------------------------------|--|
|                        |              | Band | BW (MHz) | Modu-lation | RB Size | RB Offset | UL Chan. | UL Freq. (MHz) | Band | BW (MHz) | Modu-lation | RB Size | RB Offset | UL Chan. | UL Freq. (MHz) | Tx Power with UL-CA Active (dBm) |  |
|                        |              |      |          |             |         |           |          |                |      |          |             |         |           |          |                | Total                            |  |
| Intra Band Conti-guous | CA_41C       | 41   | 20       | QPSK        | 1       | 0         | 39750    | 2506           | 41   | 15       | QPSK        | 1       | 99        | 39921    | 2523.1         | 18.92                            |  |
|                        |              |      |          |             | 1       | 99        |          |                |      |          |             | 23.46   |           |          |                |                                  |  |
|                        |              | 41   | 20       | QPSK        | 1       | 0         | 40521    | 2583.1         | 41   | 15       | QPSK        | 1       | 99        | 40717    | 2602.7         | 18.82                            |  |
|                        |              |      |          |             | 1       | 99        |          |                |      |          |             | 23.36   |           |          |                |                                  |  |
|                        |              | 41   | 20       | QPSK        | 1       | 0         | 41292    | 2660.2         | 41   | 15       | QPSK        | 1       | 99        | 41512    | 2682.2         | 18.16                            |  |
|                        |              |      |          |             | 1       | 99        |          |                |      |          |             | 22.98   |           |          |                |                                  |  |

| Con-figuration         | Com-bination | PCC  |          |             |         |           |          |                | SCC  |          |             |         |           |          |                | Measurement Power                |  |
|------------------------|--------------|------|----------|-------------|---------|-----------|----------|----------------|------|----------|-------------|---------|-----------|----------|----------------|----------------------------------|--|
|                        |              | Band | BW (MHz) | Modu-lation | RB Size | RB Offset | UL Chan. | UL Freq. (MHz) | Band | BW (MHz) | Modu-lation | RB Size | RB Offset | UL Chan. | UL Freq. (MHz) | Tx Power with UL-CA Active (dBm) |  |
|                        |              |      |          |             |         |           |          |                |      |          |             |         |           |          |                | Total                            |  |
| Intra Band Conti-guous | CA_41C       | 41   | 15       | QPSK        | 1       | 0         | 39725    | 2503.5         | 41   | 10       | QPSK        | 1       | 99        | 39845    | 2515.5         | 18.79                            |  |
|                        |              |      |          |             | 1       | 99        |          |                |      |          |             | 23.28   |           |          |                |                                  |  |
|                        |              | 41   | 15       | QPSK        | 1       | 0         | 40571    | 2588.1         | 41   | 10       | QPSK        | 1       | 99        | 40691    | 2600.1         | 18.68                            |  |
|                        |              |      |          |             | 1       | 99        |          |                |      |          |             | 23.18   |           |          |                |                                  |  |
|                        |              | 41   | 15       | QPSK        | 1       | 0         | 41417    | 2672.7         | 41   | 10       | QPSK        | 1       | 99        | 41537    | 2684.7         | 18.01                            |  |
|                        |              |      |          |             | 1       | 99        |          |                |      |          |             | 22.88   |           |          |                |                                  |  |

| Con-figuration        | Com-bination | PCC  |          |             |         |           |          |                | SCC  |          |             |         |           |          |                | Measurement Power                |  |
|-----------------------|--------------|------|----------|-------------|---------|-----------|----------|----------------|------|----------|-------------|---------|-----------|----------|----------------|----------------------------------|--|
|                       |              | Band | BW (MHz) | Modu-lation | RB Size | RB Offset | UL Chan. | UL Freq. (MHz) | Band | BW (MHz) | Modu-lation | RB Size | RB Offset | UL Chan. | UL Freq. (MHz) | Tx Power with UL-CA Active (dBm) |  |
|                       |              |      |          |             |         |           |          |                |      |          |             |         |           |          |                | Total                            |  |
| Intra Band Contiguous | CA_41C       | 41   | 20       | 16QAM       | 1       | 0         | 39750    | 2506           | 41   | 20       | 16QAM       | 1       | 99        | 39948    | 2525.8         | 18.31                            |  |
|                       |              |      |          |             | 1       | 99        |          |                |      |          |             | 22.81   |           |          |                |                                  |  |
|                       |              | 41   | 20       | 16QAM       | 1       | 0         | 40521    | 2583.1         | 41   | 20       | 16QAM       | 1       | 99        | 40719    | 2602.9         | 18.50                            |  |
|                       |              |      |          |             | 1       | 99        |          |                |      |          |             | 22.70   |           |          |                |                                  |  |
|                       |              | 41   | 20       | 16QAM       | 1       | 0         | 41292    | 2660.2         | 41   | 20       | 16QAM       | 1       | 99        | 41490    | 2680           | 17.80                            |  |
|                       |              |      |          |             | 1       | 99        |          |                |      |          |             | 22.29   |           |          |                |                                  |  |

| Con-figuration        | Com-bination | PCC  |          |             |         |           |          |                | SCC  |          |             |         |           |          |                | Measurement Power                |  |
|-----------------------|--------------|------|----------|-------------|---------|-----------|----------|----------------|------|----------|-------------|---------|-----------|----------|----------------|----------------------------------|--|
|                       |              | Band | BW (MHz) | Modu-lation | RB Size | RB Offset | UL Chan. | UL Freq. (MHz) | Band | BW (MHz) | Modu-lation | RB Size | RB Offset | UL Chan. | UL Freq. (MHz) | Tx Power with UL-CA Active (dBm) |  |
|                       |              |      |          |             |         |           |          |                |      |          |             |         |           |          |                | Total                            |  |
| Intra Band Contiguous | CA_41C       | 41   | 20       | 16QAM       | 1       | 0         | 39750    | 2506           | 41   | 15       | 16QAM       | 1       | 99        | 39921    | 2523.1         | 18.20                            |  |
|                       |              |      |          |             | 1       | 99        |          |                |      |          |             | 22.64   |           |          |                |                                  |  |
|                       |              | 41   | 20       | 16QAM       | 1       | 0         | 40521    | 2583.1         | 41   | 15       | 16QAM       | 1       | 99        | 40717    | 2602.7         | 18.37                            |  |
|                       |              |      |          |             | 1       | 99        |          |                |      |          |             | 22.58   |           |          |                |                                  |  |
|                       |              | 41   | 20       | 16QAM       | 1       | 0         | 41292    | 2660.2         | 41   | 15       | 16QAM       | 1       | 99        | 41512    | 2682.2         | 17.69                            |  |
|                       |              |      |          |             | 1       | 99        |          |                |      |          |             | 22.11   |           |          |                |                                  |  |

| Con-figuration        | Com-bination | PCC  |          |             |         |           |          |                | SCC  |          |             |         |           |          |                | Measurement Power                |  |
|-----------------------|--------------|------|----------|-------------|---------|-----------|----------|----------------|------|----------|-------------|---------|-----------|----------|----------------|----------------------------------|--|
|                       |              | Band | BW (MHz) | Modu-lation | RB Size | RB Offset | UL Chan. | UL Freq. (MHz) | Band | BW (MHz) | Modu-lation | RB Size | RB Offset | UL Chan. | UL Freq. (MHz) | Tx Power with UL-CA Active (dBm) |  |
|                       |              |      |          |             |         |           |          |                |      |          |             |         |           |          |                | Total                            |  |
| Intra Band Contiguous | CA_41C       | 41   | 15       | 16QAM       | 1       | 0         | 39725    | 2503.5         | 41   | 10       | 16QAM       | 1       | 99        | 39845    | 2515.5         | 18.03                            |  |
|                       |              |      |          |             | 1       | 99        |          |                |      |          |             | 22.46   |           |          |                |                                  |  |
|                       |              | 41   | 15       | 16QAM       | 1       | 0         | 40571    | 2588.1         | 41   | 10       | 16QAM       | 1       | 99        | 40691    | 2600.1         | 18.16                            |  |
|                       |              |      |          |             | 1       | 99        |          |                |      |          |             | 22.50   |           |          |                |                                  |  |
|                       |              | 41   | 15       | 16QAM       | 1       | 0         | 41417    | 2672.7         | 41   | 10       | 16QAM       | 1       | 99        | 41537    | 2684.7         | 17.51                            |  |
|                       |              |      |          |             | 1       | 99        |          |                |      |          |             | 21.96   |           |          |                |                                  |  |

| Con-figuration        | Com-bination | PCC  |          |             |         |           |          |                | SCC  |          |             |         |           |          |                | Measurement Power                |  |
|-----------------------|--------------|------|----------|-------------|---------|-----------|----------|----------------|------|----------|-------------|---------|-----------|----------|----------------|----------------------------------|--|
|                       |              | Band | BW (MHz) | Modu-lation | RB Size | RB Offset | UL Chan. | UL Freq. (MHz) | Band | BW (MHz) | Modu-lation | RB Size | RB Offset | UL Chan. | UL Freq. (MHz) | Tx Power with UL-CA Active (dBm) |  |
|                       |              |      |          |             |         |           |          |                |      |          |             |         |           |          |                | Total                            |  |
| Intra Band Contiguous | CA_41C       | 41   | 20       | 64QAM       | 1       | 0         | 39750    | 2506           | 41   | 20       | 64QAM       | 1       | 99        | 39948    | 2525.8         | 17.49                            |  |
|                       |              |      |          |             | 1       | 99        |          |                |      |          |             | 22.33   |           |          |                |                                  |  |
|                       |              | 41   | 20       | 64QAM       | 1       | 0         | 40521    | 2583.1         | 41   | 20       | 64QAM       | 1       | 99        | 40719    | 2602.9         | 17.72                            |  |
|                       |              |      |          |             | 1       | 99        |          |                |      |          |             | 21.97   |           |          |                |                                  |  |
|                       |              | 41   | 20       | 64QAM       | 1       | 0         | 41292    | 2660.2         | 41   | 20       | 64QAM       | 1       | 99        | 41490    | 2680           | 17.02                            |  |
|                       |              |      |          |             | 1       | 99        |          |                |      |          |             | 21.54   |           |          |                |                                  |  |

| Con-figuration        | Com-bination | PCC  |          |             |         |           |          |                | SCC  |          |             |         |           |          |                | Measurement Power                |  |
|-----------------------|--------------|------|----------|-------------|---------|-----------|----------|----------------|------|----------|-------------|---------|-----------|----------|----------------|----------------------------------|--|
|                       |              | Band | BW (MHz) | Modu-lation | RB Size | RB Offset | UL Chan. | UL Freq. (MHz) | Band | BW (MHz) | Modu-lation | RB Size | RB Offset | UL Chan. | UL Freq. (MHz) | Tx Power with UL-CA Active (dBm) |  |
|                       |              |      |          |             |         |           |          |                |      |          |             |         |           |          |                | Total                            |  |
| Intra Band Contiguous | CA_41C       | 41   | 20       | 64QAM       | 1       | 0         | 39750    | 2506           | 41   | 15       | 64QAM       | 1       | 99        | 39921    | 2523.1         | 17.29                            |  |
|                       |              |      |          |             | 1       | 99        |          |                |      |          |             | 22.23   |           |          |                |                                  |  |
|                       |              | 41   | 20       | 64QAM       | 1       | 0         | 40521    | 2583.1         | 41   | 15       | 64QAM       | 1       | 99        | 40717    | 2602.7         | 17.54                            |  |
|                       |              |      |          |             | 1       | 99        |          |                |      |          |             | 21.84   |           |          |                |                                  |  |
|                       |              | 41   | 20       | 64QAM       | 1       | 0         | 41292    | 2660.2         | 41   | 15       | 64QAM       | 1       | 99        | 41512    | 2682.2         | 16.93                            |  |
|                       |              |      |          |             | 1       | 99        |          |                |      |          |             | 21.39   |           |          |                |                                  |  |

| Con-figuration        | Com-bination | PCC  |          |             |         |           |          |                | SCC  |          |             |         |           |          |                | Measurement Power                |  |
|-----------------------|--------------|------|----------|-------------|---------|-----------|----------|----------------|------|----------|-------------|---------|-----------|----------|----------------|----------------------------------|--|
|                       |              | Band | BW (MHz) | Modu-lation | RB Size | RB Offset | UL Chan. | UL Freq. (MHz) | Band | BW (MHz) | Modu-lation | RB Size | RB Offset | UL Chan. | UL Freq. (MHz) | Tx Power with UL-CA Active (dBm) |  |
|                       |              |      |          |             |         |           |          |                |      |          |             |         |           |          |                | Total                            |  |
| Intra Band Contiguous | CA_41C       | 41   | 15       | 64QAM       | 1       | 0         | 39725    | 2503.5         | 41   | 10       | 64QAM       | 1       | 99        | 39845    | 2515.5         | 17.19                            |  |
|                       |              |      |          |             | 1       | 99        |          |                |      |          |             | 22.01   |           |          |                |                                  |  |
|                       |              | 41   | 15       | 64QAM       | 1       | 0         | 40571    | 2588.1         | 41   | 10       | 64QAM       | 1       | 99        | 40691    | 2600.1         | 17.45                            |  |
|                       |              |      |          |             | 1       | 99        |          |                |      |          |             | 21.71   |           |          |                |                                  |  |
|                       |              | 41   | 15       | 64QAM       | 1       | 0         | 41417    | 2672.7         | 41   | 10       | 64QAM       | 1       | 99        | 41537    | 2684.7         | 16.69                            |  |
|                       |              |      |          |             | 1       | 99        |          |                |      |          |             | 21.19   |           |          |                |                                  |  |

| Con-<br>figure                   | Com-<br>bination | PCC  |             |                 |            |              |             |                      | SCC  |             |                 |            |              |             |                      | Measurement<br>Power                   |  |
|----------------------------------|------------------|------|-------------|-----------------|------------|--------------|-------------|----------------------|------|-------------|-----------------|------------|--------------|-------------|----------------------|--|--|
|                                  |                  | Band | BW<br>(MHz) | Modu-<br>lation | RB<br>Size | RB<br>Offset | UL<br>Chan. | UL<br>Freq.<br>(MHz) | Band | BW<br>(MHz) | Modu-<br>lation | RB<br>Size | RB<br>Offset | UL<br>Chan. | UL<br>Freq.<br>(MHz) | Tx Power<br>with UL-CA<br>Active (dBm) |  |
|                                  |                  |      |             |                 |            |              |             |                      |      |             |                 |            |              |             |                      | Total                                  |  |
| Intra<br>Band<br>Conti-<br>guous | CA_41C           | 41   | 20          | 256QAM          | 1          | 0            | 39750       | 2506                 | 41   | 20          | 256QAM          | 1          | 99           | 39948       | 2525.8               | 16.77                                  |  |
|                                  |                  |      |             |                 | 1          | 99           |             |                      |      |             |                 | 21.59      |              |             |                      |  |  |
|                                  |                  | 41   | 20          | 256QAM          | 1          | 0            | 40521       | 2583.1               | 41   | 20          | 256QAM          | 1          | 99           | 40719       | 2602.9               | 17.00                                  |  |
|                                  |                  |      |             |                 | 1          | 99           |             |                      |      |             |                 | 21.29      |              |             |                      |  |  |
|                                  |                  | 41   | 20          | 256QAM          | 1          | 0            | 41292       | 2660.2               | 41   | 20          | 256QAM          | 1          | 99           | 41490       | 2680                 | 16.25                                  |  |
|                                  |                  |      |             |                 | 1          | 99           |             |                      |      |             |                 | 20.85      |              |             |                      |  |  |

| Con-<br>figure                   | Com-<br>bination | PCC  |             |                 |            |              |             |                      | SCC  |             |                 |            |              |             |                      | Measurement<br>Power                   |  |
|----------------------------------|------------------|------|-------------|-----------------|------------|--------------|-------------|----------------------|------|-------------|-----------------|------------|--------------|-------------|----------------------|--|--|
|                                  |                  | Band | BW<br>(MHz) | Modu-<br>lation | RB<br>Size | RB<br>Offset | UL<br>Chan. | UL<br>Freq.<br>(MHz) | Band | BW<br>(MHz) | Modu-<br>lation | RB<br>Size | RB<br>Offset | UL<br>Chan. | UL<br>Freq.<br>(MHz) | Tx Power<br>with UL-CA<br>Active (dBm) |  |
|                                  |                  |      |             |                 |            |              |             |                      |      |             |                 |            |              |             |                      | Total                                  |  |
| Intra<br>Band<br>Conti-<br>guous | CA_41C           | 41   | 20          | 256QAM          | 1          | 0            | 39750       | 2506                 | 41   | 15          | 256QAM          | 1          | 99           | 39921       | 2523.1               | 16.64                                  |  |
|                                  |                  |      |             |                 | 1          | 99           |             |                      |      |             |                 | 21.49      |              |             |                      |  |  |
|                                  |                  | 41   | 20          | 256QAM          | 1          | 0            | 40521       | 2583.1               | 41   | 15          | 256QAM          | 1          | 99           | 40717       | 2602.7               | 16.80                                  |  |
|                                  |                  |      |             |                 | 1          | 99           |             |                      |      |             |                 | 21.16      |              |             |                      |  |  |
|                                  |                  | 41   | 20          | 256QAM          | 1          | 0            | 41292       | 2660.2               | 41   | 15          | 256QAM          | 1          | 99           | 41512       | 2682.2               | 16.05                                  |  |
|                                  |                  |      |             |                 | 1          | 99           |             |                      |      |             |                 | 20.70      |              |             |                      |  |  |

| Con-<br>figure                   | Com-<br>bination | PCC  |             |                 |            |              |             |                      | SCC  |             |                 |            |              |             |                      | Measurement<br>Power                   |  |
|----------------------------------|------------------|------|-------------|-----------------|------------|--------------|-------------|----------------------|------|-------------|-----------------|------------|--------------|-------------|----------------------|--|--|
|                                  |                  | Band | BW<br>(MHz) | Modu-<br>lation | RB<br>Size | RB<br>Offset | UL<br>Chan. | UL<br>Freq.<br>(MHz) | Band | BW<br>(MHz) | Modu-<br>lation | RB<br>Size | RB<br>Offset | UL<br>Chan. | UL<br>Freq.<br>(MHz) | Tx Power<br>with UL-CA<br>Active (dBm) |  |
|                                  |                  |      |             |                 |            |              |             |                      |      |             |                 |            |              |             |                      | Total                                  |  |
| Intra<br>Band<br>Conti-<br>guous | CA_41C           | 41   | 15          | 256QAM          | 1          | 0            | 39725       | 2503.5               | 41   | 10          | 256QAM          | 1          | 99           | 39845       | 2515.5               | 16.53                                  |  |
|                                  |                  |      |             |                 | 1          | 99           |             |                      |      |             |                 | 21.28      |              |             |                      |  |  |
|                                  |                  | 41   | 15          | 256QAM          | 1          | 0            | 40571       | 2588.1               | 41   | 10          | 256QAM          | 1          | 99           | 40691       | 2600.1               | 16.70                                  |  |
|                                  |                  |      |             |                 | 1          | 99           |             |                      |      |             |                 | 20.91      |              |             |                      |  |  |
|                                  |                  | 41   | 15          | 256QAM          | 1          | 0            | 41417       | 2672.7               | 41   | 10          | 256QAM          | 1          | 99           | 41537       | 2684.7               | 15.95                                  |  |
|                                  |                  |      |             |                 | 1          | 99           |             |                      |      |             |                 | 20.55      |              |             |                      |  |  |

**LTE Band 66 (CA 66C)**

| Con-figu-re            | Com-bi-nation | PCC  |          |             |         |           |          |                | SCC  |          |             |         |           |          |                | Measurement Power                |  |
|------------------------|---------------|------|----------|-------------|---------|-----------|----------|----------------|------|----------|-------------|---------|-----------|----------|----------------|----------------------------------|--|
|                        |               | Band | BW (MHz) | Modu-lation | RB Size | RB Offset | UL Chan. | UL Freq. (MHz) | Band | BW (MHz) | Modu-lation | RB Size | RB Offset | UL Chan. | UL Freq. (MHz) | Tx Power with UL-CA Active (dBm) |  |
|                        |               |      |          |             |         |           |          |                |      |          |             |         |           |          |                | Total                            |  |
| Intra Band Conti-guous | CA_66C        | 66   | 20       | QPSK        | 1       | 0         | 132072   | 1720           | 66   | 20       | QPSK        | 1       | 99        | 132270   | 1739.8         | 15.38                            |  |
|                        |               |      |          |             | 1       | 99        |          |                |      |          |             | 22.74   |           |          |                |                                  |  |
|                        |               | 66   | 20       | QPSK        | 1       | 0         | 132323   | 1745.1         | 66   | 20       | QPSK        | 1       | 99        | 132521   | 1764.9         | 15.38                            |  |
|                        |               |      |          |             | 1       | 99        |          |                |      |          |             | 22.96   |           |          |                |                                  |  |
|                        |               | 66   | 20       | QPSK        | 1       | 0         | 132374   | 1750.2         | 66   | 20       | QPSK        | 1       | 99        | 132572   | 1770           | 15.50                            |  |
|                        |               |      |          |             | 1       | 99        |          |                |      |          |             | 23.05   |           |          |                |                                  |  |

| Con-figu-re            | Com-bi-nation | PCC  |          |             |         |           |          |                | SCC  |          |             |         |           |          |                | Measurement Power                |  |
|------------------------|---------------|------|----------|-------------|---------|-----------|----------|----------------|------|----------|-------------|---------|-----------|----------|----------------|----------------------------------|--|
|                        |               | Band | BW (MHz) | Modu-lation | RB Size | RB Offset | UL Chan. | UL Freq. (MHz) | Band | BW (MHz) | Modu-lation | RB Size | RB Offset | UL Chan. | UL Freq. (MHz) | Tx Power with UL-CA Active (dBm) |  |
|                        |               |      |          |             |         |           |          |                |      |          |             |         |           |          |                | Total                            |  |
| Intra Band Conti-guous | CA_66C        | 66   | 20       | 16QAM       | 1       | 0         | 132072   | 1720           | 66   | 20       | 16QAM       | 1       | 99        | 132270   | 1739.8         | 14.58                            |  |
|                        |               |      |          |             | 1       | 99        |          |                |      |          |             | 21.85   |           |          |                |                                  |  |
|                        |               | 66   | 20       | 16QAM       | 1       | 0         | 132323   | 1745.1         | 66   | 20       | 16QAM       | 1       | 99        | 132521   | 1764.9         | 14.63                            |  |
|                        |               |      |          |             | 1       | 99        |          |                |      |          |             | 22.11   |           |          |                |                                  |  |
|                        |               | 66   | 20       | 16QAM       | 1       | 0         | 132374   | 1750.2         | 66   | 20       | 16QAM       | 1       | 99        | 132572   | 1770           | 14.75                            |  |
|                        |               |      |          |             | 1       | 99        |          |                |      |          |             | 22.38   |           |          |                |                                  |  |

| Con-figu-re            | Com-bi-nation | PCC  |          |             |         |           |          |                | SCC  |          |             |         |           |          |                | Measurement Power                |  |
|------------------------|---------------|------|----------|-------------|---------|-----------|----------|----------------|------|----------|-------------|---------|-----------|----------|----------------|----------------------------------|--|
|                        |               | Band | BW (MHz) | Modu-lation | RB Size | RB Offset | UL Chan. | UL Freq. (MHz) | Band | BW (MHz) | Modu-lation | RB Size | RB Offset | UL Chan. | UL Freq. (MHz) | Tx Power with UL-CA Active (dBm) |  |
|                        |               |      |          |             |         |           |          |                |      |          |             |         |           |          |                | Total                            |  |
| Intra Band Conti-guous | CA_66C        | 66   | 20       | 64QAM       | 1       | 0         | 132072   | 1720           | 66   | 20       | 64QAM       | 1       | 99        | 132270   | 1739.8         | 13.90                            |  |
|                        |               |      |          |             | 1       | 99        |          |                |      |          |             | 21.22   |           |          |                |                                  |  |
|                        |               | 66   | 20       | 64QAM       | 1       | 0         | 132323   | 1745.1         | 66   | 20       | 64QAM       | 1       | 99        | 132521   | 1764.9         | 14.03                            |  |
|                        |               |      |          |             | 1       | 99        |          |                |      |          |             | 21.54   |           |          |                |                                  |  |
|                        |               | 66   | 20       | 64QAM       | 1       | 0         | 132374   | 1750.2         | 66   | 20       | 64QAM       | 1       | 99        | 132572   | 1770           | 13.98                            |  |
|                        |               |      |          |             | 1       | 99        |          |                |      |          |             | 21.72   |           |          |                |                                  |  |

| Con-figu-re            | Com-bi-nation | PCC  |          |             |         |           |          |                | SCC  |          |             |         |           |          |                | Measurement Power                |  |
|------------------------|---------------|------|----------|-------------|---------|-----------|----------|----------------|------|----------|-------------|---------|-----------|----------|----------------|----------------------------------|--|
|                        |               | Band | BW (MHz) | Modu-lation | RB Size | RB Offset | UL Chan. | UL Freq. (MHz) | Band | BW (MHz) | Modu-lation | RB Size | RB Offset | UL Chan. | UL Freq. (MHz) | Tx Power with UL-CA Active (dBm) |  |
|                        |               |      |          |             |         |           |          |                |      |          |             |         |           |          |                | Total                            |  |
| Intra Band Conti-guous | CA_66C        | 66   | 20       | 256QAM      | 1       | 0         | 132072   | 1720           | 66   | 20       | 256QAM      | 1       | 99        | 132270   | 1739.8         | 13.08                            |  |
|                        |               |      |          |             | 1       | 99        |          |                |      |          |             | 20.55   |           |          |                |                                  |  |
|                        |               | 66   | 20       | 256QAM      | 1       | 0         | 132323   | 1745.1         | 66   | 20       | 256QAM      | 1       | 99        | 132521   | 1764.9         | 13.18                            |  |
|                        |               |      |          |             | 1       | 99        |          |                |      |          |             | 20.75   |           |          |                |                                  |  |
|                        |               | 66   | 20       | 256QAM      | 1       | 0         | 132374   | 1750.2         | 66   | 20       | 256QAM      | 1       | 99        | 132572   | 1770           | 13.23                            |  |
|                        |               |      |          |             | 1       | 99        |          |                |      |          |             | 21.21   |           |          |                |                                  |  |



### LTE Band 66 (CA 66B)

| Con-<br>figure                   | Com-<br>bination | PCC  |             |                 |            |              |             |                      | SCC  |             |                 |            |              |             |                      | Measurement<br>Power                   |  |
|----------------------------------|------------------|------|-------------|-----------------|------------|--------------|-------------|----------------------|------|-------------|-----------------|------------|--------------|-------------|----------------------|--|--|
|                                  |                  | Band | BW<br>(MHz) | Modu-<br>lation | RB<br>Size | RB<br>Offset | UL<br>Chan. | UL<br>Freq.<br>(MHz) | Band | BW<br>(MHz) | Modu-<br>lation | RB<br>Size | RB<br>Offset | UL<br>Chan. | UL<br>Freq.<br>(MHz) | Tx Power<br>with UL-CA<br>Active (dBm) |  |
|                                  |                  |      |             |                 |            |              |             |                      |      |             |                 |            |              |             |                      | Total                                  |  |
| Intra<br>Band<br>Conti-<br>guous | CA_66B           | 66   | 10          | QPSK            | 1          | 0            | 132022      | 1715                 | 66   | 10          | QPSK            | 1          | 49           | 132121      | 1724.9               | 13.72                                  |  |
|                                  |                  |      |             |                 | 1          | 49           |             |                      |      |             |                 | 22.66      |              |             |                      |  |  |
|                                  |                  | 66   | 10          | QPSK            | 1          | 0            | 132373      | 1750.1               | 66   | 10          | QPSK            | 1          | 49           | 132472      | 1760                 | 13.82                                  |  |
|                                  |                  |      |             |                 | 1          | 49           |             |                      |      |             |                 | 23.10      |              |             |                      |  |  |
|                                  |                  | 66   | 10          | QPSK            | 1          | 0            | 132523      | 1765.1               | 66   | 10          | QPSK            | 1          | 49           | 132622      | 1775                 | 14.05                                  |  |
|                                  |                  |      |             |                 | 1          | 49           |             |                      |      |             |                 | 23.19      |              |             |                      |  |  |

| Con-<br>figure                   | Com-<br>bination | PCC  |             |                 |            |              |             |                      | SCC  |             |                 |            |              |             |                      | Measurement<br>Power                   |  |
|----------------------------------|------------------|------|-------------|-----------------|------------|--------------|-------------|----------------------|------|-------------|-----------------|------------|--------------|-------------|----------------------|--|--|
|                                  |                  | Band | BW<br>(MHz) | Modu-<br>lation | RB<br>Size | RB<br>Offset | UL<br>Chan. | UL<br>Freq.<br>(MHz) | Band | BW<br>(MHz) | Modu-<br>lation | RB<br>Size | RB<br>Offset | UL<br>Chan. | UL<br>Freq.<br>(MHz) | Tx Power<br>with UL-CA<br>Active (dBm) |  |
|                                  |                  |      |             |                 |            |              |             |                      |      |             |                 |            |              |             |                      | Total                                  |  |
| Intra<br>Band<br>Conti-<br>guous | CA_66B           | 66   | 10          | 16QAM           | 1          | 0            | 132022      | 1715                 | 66   | 10          | 16QAM           | 1          | 49           | 132121      | 1724.9               | 13.03                                  |  |
|                                  |                  |      |             |                 | 1          | 49           |             |                      |      |             |                 | 21.87      |              |             |                      |  |  |
|                                  |                  | 66   | 10          | 16QAM           | 1          | 0            | 132373      | 1750.1               | 66   | 10          | 16QAM           | 1          | 49           | 132472      | 1760                 | 13.06                                  |  |
|                                  |                  |      |             |                 | 1          | 49           |             |                      |      |             |                 | 22.32      |              |             |                      |  |  |
|                                  |                  | 66   | 10          | 16QAM           | 1          | 0            | 132523      | 1765.1               | 66   | 10          | 16QAM           | 1          | 49           | 132622      | 1775                 | 13.43                                  |  |
|                                  |                  |      |             |                 | 1          | 49           |             |                      |      |             |                 | 22.29      |              |             |                      |  |  |

| Con-<br>figure                   | Com-<br>bination | PCC  |             |                 |            |              |             |                      | SCC  |             |                 |            |              |             |                      | Measurement<br>Power                   |  |
|----------------------------------|------------------|------|-------------|-----------------|------------|--------------|-------------|----------------------|------|-------------|-----------------|------------|--------------|-------------|----------------------|--|--|
|                                  |                  | Band | BW<br>(MHz) | Modu-<br>lation | RB<br>Size | RB<br>Offset | UL<br>Chan. | UL<br>Freq.<br>(MHz) | Band | BW<br>(MHz) | Modu-<br>lation | RB<br>Size | RB<br>Offset | UL<br>Chan. | UL<br>Freq.<br>(MHz) | Tx Power<br>with UL-CA<br>Active (dBm) |  |
|                                  |                  |      |             |                 |            |              |             |                      |      |             |                 |            |              |             |                      | Total                                  |  |
| Intra<br>Band<br>Conti-<br>guous | CA_66B           | 66   | 10          | 64QAM           | 1          | 0            | 132022      | 1715                 | 66   | 10          | 64QAM           | 1          | 49           | 132121      | 1724.9               | 12.18                                  |  |
|                                  |                  |      |             |                 | 1          | 49           |             |                      |      |             |                 | 21.32      |              |             |                      |  |  |
|                                  |                  | 66   | 10          | 64QAM           | 1          | 0            | 132373      | 1750.1               | 66   | 10          | 64QAM           | 1          | 49           | 132472      | 1760                 | 12.40                                  |  |
|                                  |                  |      |             |                 | 1          | 49           |             |                      |      |             |                 | 21.66      |              |             |                      |  |  |
|                                  |                  | 66   | 10          | 64QAM           | 1          | 0            | 132523      | 1765.1               | 66   | 10          | 64QAM           | 1          | 49           | 132622      | 1775                 | 12.87                                  |  |
|                                  |                  |      |             |                 | 1          | 49           |             |                      |      |             |                 | 21.58      |              |             |                      |  |  |

| Con-<br>figure                   | Com-<br>bination | PCC  |             |                 |            |              |             |                      | SCC  |             |                 |            |              |             |                      | Measurement<br>Power                   |  |
|----------------------------------|------------------|------|-------------|-----------------|------------|--------------|-------------|----------------------|------|-------------|-----------------|------------|--------------|-------------|----------------------|--|--|
|                                  |                  | Band | BW<br>(MHz) | Modu-<br>lation | RB<br>Size | RB<br>Offset | UL<br>Chan. | UL<br>Freq.<br>(MHz) | Band | BW<br>(MHz) | Modu-<br>lation | RB<br>Size | RB<br>Offset | UL<br>Chan. | UL<br>Freq.<br>(MHz) | Tx Power<br>with UL-CA<br>Active (dBm) |  |
|                                  |                  |      |             |                 |            |              |             |                      |      |             |                 |            |              |             |                      | Total                                  |  |
| Intra<br>Band<br>Conti-<br>guous | CA_66B           | 66   | 10          | 256QAM          | 1          | 0            | 132022      | 1715                 | 66   | 10          | 256QAM          | 1          | 49           | 132121      | 1724.9               | 11.60                                  |  |
|                                  |                  |      |             |                 | 1          | 49           |             |                      |      |             |                 | 20.51      |              |             |                      |  |  |
|                                  |                  | 66   | 10          | 256QAM          | 1          | 0            | 132373      | 1750.1               | 66   | 10          | 256QAM          | 1          | 49           | 132472      | 1760                 | 11.70                                  |  |
|                                  |                  |      |             |                 | 1          | 49           |             |                      |      |             |                 | 20.80      |              |             |                      |  |  |
|                                  |                  | 66   | 10          | 256QAM          | 1          | 0            | 132523      | 1765.1               | 66   | 10          | 256QAM          | 1          | 49           | 132622      | 1775                 | 11.90                                  |  |
|                                  |                  |      |             |                 | 1          | 49           |             |                      |      |             |                 | 20.77      |              |             |                      |  |  |

**EIRP Power (dBm)**

| LTE Band 7 (CA 7C)                    |             |                 |               |                        |            |           |                    |
|---------------------------------------|-------------|-----------------|---------------|------------------------|------------|-----------|--------------------|
| Channel Bandwidth: 20+20 MHz / QPSK   |             |                 |               |                        |            |           |                    |
| Plane                                 | Channel     | Frequency (MHz) | Reading (dBm) | Correction Factor (dB) | EIRP (dBm) | EIRP (mW) | Polarization (H/V) |
| X                                     | 20850+21048 | 2519.9          | -22.00        | 44.16                  | 22.16      | 164.44    | H                  |
|                                       | 21001+21199 | 2535.0          | -22.12        | 44.20                  | 22.08      | 161.32    |                    |
|                                       | 21152+21350 | 2550.1          | -22.53        | 44.81                  | 22.28      | 168.93    |                    |
|                                       | 20850+21048 | 2519.9          | -28.28        | 44.78                  | 16.50      | 44.67     | V                  |
|                                       | 21001+21199 | 2535.0          | -28.56        | 44.09                  | 15.53      | 35.71     |                    |
|                                       | 21152+21350 | 2550.1          | -28.33        | 44.72                  | 16.39      | 43.55     |                    |
| Channel Bandwidth: 20+20 MHz / 16QAM  |             |                 |               |                        |            |           |                    |
| Plane                                 | Channel     | Frequency (MHz) | Reading (dBm) | Correction Factor (dB) | EIRP (dBm) | EIRP (mW) | Polarization (H/V) |
| X                                     | 20850+21048 | 2519.9          | -22.90        | 44.16                  | 21.26      | 133.66    | H                  |
|                                       | 21001+21199 | 2535.0          | -23.22        | 44.20                  | 20.98      | 125.23    |                    |
|                                       | 21152+21350 | 2550.1          | -23.63        | 44.81                  | 21.18      | 131.13    |                    |
|                                       | 20850+21048 | 2519.9          | -29.18        | 44.78                  | 15.60      | 36.31     | V                  |
|                                       | 21001+21199 | 2535.0          | -29.76        | 44.09                  | 14.33      | 27.09     |                    |
|                                       | 21152+21350 | 2550.1          | -29.33        | 44.72                  | 15.39      | 34.59     |                    |
| Channel Bandwidth: 20+20 MHz / 64QAM  |             |                 |               |                        |            |           |                    |
| Plane                                 | Channel     | Frequency (MHz) | Reading (dBm) | Correction Factor (dB) | EIRP (dBm) | EIRP (mW) | Polarization (H/V) |
| X                                     | 20850+21048 | 2519.9          | -24.10        | 44.16                  | 20.06      | 101.39    | H                  |
|                                       | 21001+21199 | 2535.0          | -24.42        | 44.20                  | 19.78      | 94.99     |                    |
|                                       | 21152+21350 | 2550.1          | -24.53        | 44.81                  | 20.28      | 106.59    |                    |
|                                       | 20850+21048 | 2519.9          | -30.18        | 44.78                  | 14.60      | 28.84     | V                  |
|                                       | 21001+21199 | 2535.0          | -30.96        | 44.09                  | 13.13      | 20.55     |                    |
|                                       | 21152+21350 | 2550.1          | -30.43        | 44.72                  | 14.29      | 26.85     |                    |
| Channel Bandwidth: 20+20 MHz / 256QAM |             |                 |               |                        |            |           |                    |
| Plane                                 | Channel     | Frequency (MHz) | Reading (dBm) | Correction Factor (dB) | EIRP (dBm) | EIRP (mW) | Polarization (H/V) |
| X                                     | 20850+21048 | 2519.9          | -25.30        | 44.16                  | 18.86      | 76.91     | H                  |
|                                       | 21001+21199 | 2535.0          | -25.52        | 44.20                  | 18.68      | 73.74     |                    |
|                                       | 21152+21350 | 2550.1          | -25.43        | 44.81                  | 19.38      | 86.64     |                    |
|                                       | 20850+21048 | 2519.9          | -31.28        | 44.78                  | 13.50      | 22.39     | V                  |
|                                       | 21001+21199 | 2535.0          | -31.96        | 44.09                  | 12.13      | 16.32     |                    |
|                                       | 21152+21350 | 2550.1          | -31.53        | 44.72                  | 13.19      | 20.84     |                    |

Note: EIRP (dBm) = Reading (dBm) + Correction Factor (dB)

| LTE Band 7 (CA 7C)                    |             |                 |               |                        |            |           |                    |
|---------------------------------------|-------------|-----------------|---------------|------------------------|------------|-----------|--------------------|
| Channel Bandwidth: 20+15 MHz / QPSK   |             |                 |               |                        |            |           |                    |
| Plane                                 | Channel     | Frequency (MHz) | Reading (dBm) | Correction Factor (dB) | EIRP (dBm) | EIRP (mW) | Polarization (H/V) |
| X                                     | 20850+21021 | 2518.6          | -22.10        | 44.16                  | 22.06      | 160.69    | H                  |
|                                       | 21026+21197 | 2536.2          | -22.32        | 44.20                  | 21.88      | 154.06    |                    |
|                                       | 21201+21375 | 2553.7          | -22.67        | 44.81                  | 22.14      | 163.57    |                    |
|                                       | V           | 20850+21021     | 2518.6        | -28.52                 | 44.78      | 16.26     | 42.27              |
|                                       |             | 21026+21197     | 2536.2        | -28.68                 | 44.09      | 15.41     | 34.74              |
|                                       |             | 21201+21372     | 2553.7        | -28.51                 | 44.72      | 16.21     | 41.78              |
| Channel Bandwidth: 20+15 MHz / 16QAM  |             |                 |               |                        |            |           |                    |
| Plane                                 | Channel     | Frequency (MHz) | Reading (dBm) | Correction Factor (dB) | EIRP (dBm) | EIRP (mW) | Polarization (H/V) |
| X                                     | 20850+21021 | 2519.9          | -23.12        | 44.16                  | 21.04      | 127.06    | H                  |
|                                       | 21026+21197 | 2535.0          | -23.34        | 44.20                  | 20.86      | 121.81    |                    |
|                                       | 21201+21375 | 2550.1          | -23.73        | 44.81                  | 21.08      | 128.14    |                    |
|                                       | V           | 20850+21021     | 2519.9        | -29.32                 | 44.78      | 15.46     | 35.16              |
|                                       |             | 21026+21197     | 2535.0        | -29.98                 | 44.09      | 14.11     | 25.75              |
|                                       |             | 21201+21372     | 2550.1        | -29.55                 | 44.72      | 15.17     | 32.89              |
| Channel Bandwidth: 20+15 MHz / 64QAM  |             |                 |               |                        |            |           |                    |
| Plane                                 | Channel     | Frequency (MHz) | Reading (dBm) | Correction Factor (dB) | EIRP (dBm) | EIRP (mW) | Polarization (H/V) |
| X                                     | 20850+21021 | 2519.9          | -24.10        | 44.16                  | 20.06      | 101.39    | H                  |
|                                       | 21026+21197 | 2535.0          | -24.42        | 44.20                  | 19.78      | 94.99     |                    |
|                                       | 21201+21375 | 2550.1          | -24.53        | 44.81                  | 20.28      | 106.59    |                    |
|                                       | V           | 20850+21021     | 2519.9        | -30.18                 | 44.78      | 14.60     | 28.84              |
|                                       |             | 21026+21197     | 2535.0        | -30.96                 | 44.09      | 13.13     | 20.55              |
|                                       |             | 21201+21372     | 2550.1        | -30.43                 | 44.72      | 14.29     | 26.85              |
| Channel Bandwidth: 20+15 MHz / 256QAM |             |                 |               |                        |            |           |                    |
| Plane                                 | Channel     | Frequency (MHz) | Reading (dBm) | Correction Factor (dB) | EIRP (dBm) | EIRP (mW) | Polarization (H/V) |
| X                                     | 20850+21021 | 2519.9          | -25.30        | 44.16                  | 18.86      | 76.91     | H                  |
|                                       | 21026+21197 | 2535.0          | -25.52        | 44.20                  | 18.68      | 73.74     |                    |
|                                       | 21201+21375 | 2550.1          | -25.43        | 44.81                  | 19.38      | 86.64     |                    |
|                                       | V           | 20850+21021     | 2519.9        | -31.28                 | 44.78      | 13.50     | 22.39              |
|                                       |             | 21026+21197     | 2535.0        | -31.96                 | 44.09      | 12.13     | 16.32              |
|                                       |             | 21201+21372     | 2550.1        | -31.53                 | 44.72      | 13.19     | 20.84              |

Note: EIRP (dBm) = Reading (dBm) + Correction Factor (dB)

| LTE Band 38 (CA 38C)                  |             |                 |               |                        |            |           |                    |
|---------------------------------------|-------------|-----------------|---------------|------------------------|------------|-----------|--------------------|
| Channel Bandwidth: 20+20 MHz / QPSK   |             |                 |               |                        |            |           |                    |
| Plane                                 | Channel     | Frequency (MHz) | Reading (dBm) | Correction Factor (dB) | EIRP (dBm) | EIRP (mW) | Polarization (H/V) |
| X                                     | 37850+38048 | 2589.9          | -23.18        | 44.16                  | 20.98      | 125.31    | H                  |
|                                       | 37901+38099 | 2595.0          | -23.56        | 44.20                  | 20.64      | 115.80    |                    |
|                                       | 37952+38150 | 2600.1          | -23.32        | 44.81                  | 21.49      | 140.83    |                    |
|                                       | 37850+38048 | 2589.9          | -27.28        | 44.78                  | 17.50      | 56.23     | V                  |
|                                       | 37901+38099 | 2595.0          | -27.54        | 44.09                  | 16.55      | 45.16     |                    |
|                                       | 37952+38150 | 2600.1          | -27.93        | 44.72                  | 16.79      | 47.75     |                    |
| Channel Bandwidth: 20+20 MHz / 16QAM  |             |                 |               |                        |            |           |                    |
| Plane                                 | Channel     | Frequency (MHz) | Reading (dBm) | Correction Factor (dB) | EIRP (dBm) | EIRP (mW) | Polarization (H/V) |
| X                                     | 37850+38048 | 2589.9          | -24.08        | 44.16                  | 20.08      | 101.86    | H                  |
|                                       | 37901+38099 | 2595.0          | -24.76        | 44.20                  | 19.44      | 87.84     |                    |
|                                       | 37952+38150 | 2600.1          | -24.32        | 44.81                  | 20.49      | 111.87    |                    |
|                                       | 37850+38048 | 2589.9          | -28.28        | 44.78                  | 16.50      | 44.67     | V                  |
|                                       | 37901+38099 | 2595.0          | -28.64        | 44.09                  | 15.45      | 35.06     |                    |
|                                       | 37952+38150 | 2600.1          | -28.93        | 44.72                  | 15.79      | 37.93     |                    |
| Channel Bandwidth: 20+20 MHz / 64QAM  |             |                 |               |                        |            |           |                    |
| Plane                                 | Channel     | Frequency (MHz) | Reading (dBm) | Correction Factor (dB) | EIRP (dBm) | EIRP (mW) | Polarization (H/V) |
| X                                     | 37850+38048 | 2589.9          | -25.28        | 44.16                  | 18.88      | 77.27     | H                  |
|                                       | 37901+38099 | 2595.0          | -25.66        | 44.20                  | 18.54      | 71.40     |                    |
|                                       | 37952+38150 | 2600.1          | -25.32        | 44.81                  | 19.49      | 88.86     |                    |
|                                       | 37850+38048 | 2589.9          | -29.48        | 44.78                  | 15.30      | 33.88     | V                  |
|                                       | 37901+38099 | 2595.0          | -29.54        | 44.09                  | 14.55      | 28.50     |                    |
|                                       | 37952+38150 | 2600.1          | -29.93        | 44.72                  | 14.79      | 30.13     |                    |
| Channel Bandwidth: 20+20 MHz / 256QAM |             |                 |               |                        |            |           |                    |
| Plane                                 | Channel     | Frequency (MHz) | Reading (dBm) | Correction Factor (dB) | EIRP (dBm) | EIRP (mW) | Polarization (H/V) |
| X                                     | 37850+38048 | 2589.9          | -26.48        | 44.16                  | 17.68      | 58.61     | H                  |
|                                       | 37901+38099 | 2595.0          | -26.76        | 44.20                  | 17.44      | 55.42     |                    |
|                                       | 37952+38150 | 2600.1          | -26.52        | 44.81                  | 18.29      | 67.41     |                    |
|                                       | 37850+38048 | 2589.9          | -30.48        | 44.78                  | 14.30      | 26.92     | V                  |
|                                       | 37901+38099 | 2595.0          | -30.74        | 44.09                  | 13.35      | 21.62     |                    |
|                                       | 37952+38150 | 2600.1          | -31.03        | 44.72                  | 13.69      | 23.39     |                    |

Note: EIRP (dBm) = Reading (dBm) + Correction Factor (dB)

| LTE Band 41 (CA 41C)                  |             |                 |               |                        |            |           |                    |
|---------------------------------------|-------------|-----------------|---------------|------------------------|------------|-----------|--------------------|
| Channel Bandwidth: 20+20 MHz / QPSK   |             |                 |               |                        |            |           |                    |
| Plane                                 | Channel     | Frequency (MHz) | Reading (dBm) | Correction Factor (dB) | EIRP (dBm) | EIRP (mW) | Polarization (H/V) |
| X                                     | 39750+39948 | 2515.9          | -22.10        | 44.16                  | 22.06      | 160.69    | H                  |
|                                       | 40521+40719 | 2593.0          | -22.33        | 44.20                  | 21.87      | 153.71    |                    |
|                                       | 41292+41490 | 2670.1          | -22.32        | 44.81                  | 22.49      | 177.30    |                    |
|                                       | 39750+39948 | 2515.9          | -26.46        | 44.78                  | 18.32      | 67.92     | V                  |
|                                       | 40521+40719 | 2593.0          | -26.53        | 44.09                  | 17.56      | 56.99     |                    |
|                                       | 41292+41490 | 2670.1          | -26.71        | 44.72                  | 18.01      | 63.24     |                    |
| Channel Bandwidth: 20+20 MHz / 16QAM  |             |                 |               |                        |            |           |                    |
| Plane                                 | Channel     | Frequency (MHz) | Reading (dBm) | Correction Factor (dB) | EIRP (dBm) | EIRP (mW) | Polarization (H/V) |
| X                                     | 39750+39948 | 2515.9          | -22.90        | 44.16                  | 21.26      | 133.66    | H                  |
|                                       | 40521+40719 | 2593.1          | -23.53        | 44.20                  | 20.67      | 116.60    |                    |
|                                       | 41292+41490 | 2670.1          | -23.52        | 44.81                  | 21.29      | 134.49    |                    |
|                                       | 39750+39948 | 2515.9          | -27.56        | 44.78                  | 17.22      | 52.72     | V                  |
|                                       | 40521+40719 | 2593.1          | -27.53        | 44.09                  | 16.56      | 45.27     |                    |
|                                       | 41292+41490 | 2670.1          | -27.81        | 44.72                  | 16.91      | 49.09     |                    |
| Channel Bandwidth: 20+20 MHz / 64QAM  |             |                 |               |                        |            |           |                    |
| Plane                                 | Channel     | Frequency (MHz) | Reading (dBm) | Correction Factor (dB) | EIRP (dBm) | EIRP (mW) | Polarization (H/V) |
| X                                     | 39750+39948 | 2515.9          | -23.90        | 44.16                  | 20.26      | 106.17    | H                  |
|                                       | 40521+40719 | 2593.1          | -24.73        | 44.20                  | 19.47      | 88.45     |                    |
|                                       | 41292+41490 | 2670.1          | -24.62        | 44.81                  | 20.19      | 104.40    |                    |
|                                       | 39750+39948 | 2515.9          | -28.76        | 44.78                  | 16.02      | 39.99     | V                  |
|                                       | 40521+40719 | 2593.1          | -28.43        | 44.09                  | 15.66      | 36.80     |                    |
|                                       | 41292+41490 | 2670.1          | -28.91        | 44.72                  | 15.81      | 38.11     |                    |
| Channel Bandwidth: 20+20 MHz / 256QAM |             |                 |               |                        |            |           |                    |
| Plane                                 | Channel     | Frequency (MHz) | Reading (dBm) | Correction Factor (dB) | EIRP (dBm) | EIRP (mW) | Polarization (H/V) |
| X                                     | 39750+39948 | 2515.9          | -24.70        | 44.16                  | 19.46      | 88.31     | H                  |
|                                       | 40521+40719 | 2593.1          | -25.83        | 44.20                  | 18.37      | 68.66     |                    |
|                                       | 41292+41490 | 2670.1          | -25.72        | 44.81                  | 19.09      | 81.04     |                    |
|                                       | 39750+39948 | 2515.9          | -29.56        | 44.78                  | 15.22      | 33.27     | V                  |
|                                       | 40521+40719 | 2593.1          | -29.43        | 44.09                  | 14.66      | 29.23     |                    |
|                                       | 41292+41490 | 2670.1          | -30.01        | 44.72                  | 14.71      | 29.58     |                    |

Note: EIRP (dBm) = Reading (dBm) + Correction Factor (dB)

| LTE Band 41 (CA 41C)                  |             |                 |               |                        |            |           |                    |
|---------------------------------------|-------------|-----------------|---------------|------------------------|------------|-----------|--------------------|
| Channel Bandwidth: 20+15 MHz / QPSK   |             |                 |               |                        |            |           |                    |
| Plane                                 | Channel     | Frequency (MHz) | Reading (dBm) | Correction Factor (dB) | EIRP (dBm) | EIRP (mW) | Polarization (H/V) |
| X                                     | 39750+39921 | 2514.6          | -22.34        | 44.16                  | 21.82      | 152.05    | H                  |
|                                       | 40546+40717 | 2594.2          | -22.49        | 44.20                  | 21.71      | 148.15    |                    |
|                                       | 41341+41512 | 2673.7          | -22.52        | 44.81                  | 22.29      | 169.32    |                    |
|                                       | 39750+39921 | 2514.6          | -26.66        | 44.78                  | 18.12      | 64.86     | V                  |
|                                       | 40546+40717 | 2594.2          | -26.69        | 44.09                  | 17.40      | 54.93     |                    |
|                                       | 41341+41512 | 2673.7          | -26.91        | 44.72                  | 17.81      | 60.39     |                    |
| Channel Bandwidth: 20+15 MHz / 16QAM  |             |                 |               |                        |            |           |                    |
| Plane                                 | Channel     | Frequency (MHz) | Reading (dBm) | Correction Factor (dB) | EIRP (dBm) | EIRP (mW) | Polarization (H/V) |
| X                                     | 39750+39921 | 2514.6          | -23.06        | 44.16                  | 21.10      | 128.82    | H                  |
|                                       | 40546+40717 | 2594.2          | -23.77        | 44.20                  | 20.43      | 110.33    |                    |
|                                       | 41341+41512 | 2673.7          | -23.76        | 44.81                  | 21.05      | 127.26    |                    |
|                                       | 39750+39921 | 2514.6          | -27.72        | 44.78                  | 17.06      | 50.82     | V                  |
|                                       | 40546+40717 | 2594.2          | -27.77        | 44.09                  | 16.32      | 42.84     |                    |
|                                       | 41341+41512 | 2673.7          | -28.05        | 44.72                  | 16.67      | 46.45     |                    |
| Channel Bandwidth: 20+15 MHz / 64QAM  |             |                 |               |                        |            |           |                    |
| Plane                                 | Channel     | Frequency (MHz) | Reading (dBm) | Correction Factor (dB) | EIRP (dBm) | EIRP (mW) | Polarization (H/V) |
| X                                     | 39750+39921 | 2514.6          | -24.08        | 44.16                  | 20.08      | 101.86    | H                  |
|                                       | 40546+40717 | 2594.2          | -24.97        | 44.20                  | 19.23      | 83.70     |                    |
|                                       | 41341+41512 | 2673.7          | -24.80        | 44.81                  | 20.01      | 100.16    |                    |
|                                       | 39750+39921 | 2514.6          | -28.98        | 44.78                  | 15.80      | 38.02     | V                  |
|                                       | 40546+40717 | 2594.2          | -28.61        | 44.09                  | 15.48      | 35.30     |                    |
|                                       | 41341+41512 | 2673.7          | -29.13        | 44.72                  | 15.59      | 36.22     |                    |
| Channel Bandwidth: 20+15 MHz / 256QAM |             |                 |               |                        |            |           |                    |
| Plane                                 | Channel     | Frequency (MHz) | Reading (dBm) | Correction Factor (dB) | EIRP (dBm) | EIRP (mW) | Polarization (H/V) |
| X                                     | 39750+39921 | 2514.6          | -24.90        | 44.16                  | 19.26      | 84.33     | H                  |
|                                       | 40546+40717 | 2594.2          | -26.01        | 44.20                  | 18.19      | 65.87     |                    |
|                                       | 41341+41512 | 2673.7          | -25.96        | 44.81                  | 18.85      | 76.68     |                    |
|                                       | 39750+39921 | 2514.6          | -29.72        | 44.78                  | 15.06      | 32.06     | V                  |
|                                       | 40546+40717 | 2594.2          | -29.59        | 44.09                  | 14.50      | 28.17     |                    |
|                                       | 41341+41512 | 2673.7          | -30.21        | 44.72                  | 14.51      | 28.25     |                    |

Note: EIRP (dBm) = Reading (dBm) + Correction Factor (dB)

| LTE Band 41 (CA 41C)                  |             |                 |               |                        |            |           |                    |
|---------------------------------------|-------------|-----------------|---------------|------------------------|------------|-----------|--------------------|
| Channel Bandwidth: 15+10 MHz / QPSK   |             |                 |               |                        |            |           |                    |
| Plane                                 | Channel     | Frequency (MHz) | Reading (dBm) | Correction Factor (dB) | EIRP (dBm) | EIRP (mW) | Polarization (H/V) |
| X                                     | 39725+39845 | 2509.5          | -22.58        | 44.16                  | 21.58      | 143.88    | H                  |
|                                       | 40571+40691 | 2594.1          | -22.71        | 44.20                  | 21.49      | 140.83    |                    |
|                                       | 41417+41537 | 2678.7          | -22.74        | 44.81                  | 22.07      | 160.95    |                    |
|                                       | 39725+39845 | 2509.5          | -26.84        | 44.78                  | 17.94      | 62.23     | V                  |
|                                       | 40571+40691 | 2594.1          | -26.85        | 44.09                  | 17.24      | 52.94     |                    |
|                                       | 41417+41537 | 2678.7          | -27.11        | 44.72                  | 17.61      | 57.68     |                    |
| Channel Bandwidth: 15+10 MHz / 16QAM  |             |                 |               |                        |            |           |                    |
| Plane                                 | Channel     | Frequency (MHz) | Reading (dBm) | Correction Factor (dB) | EIRP (dBm) | EIRP (mW) | Polarization (H/V) |
| X                                     | 39725+39845 | 2509.5          | -23.22        | 44.16                  | 20.94      | 124.17    | H                  |
|                                       | 40571+40691 | 2594.1          | -23.95        | 44.20                  | 20.25      | 105.85    |                    |
|                                       | 41417+41537 | 2678.7          | -23.94        | 44.81                  | 20.87      | 122.10    |                    |
|                                       | 39725+39845 | 2509.5          | -27.92        | 44.78                  | 16.86      | 48.53     | V                  |
|                                       | 40571+40691 | 2594.1          | -28.01        | 44.09                  | 16.08      | 40.53     |                    |
|                                       | 41417+41537 | 2678.7          | -28.25        | 44.72                  | 16.47      | 44.36     |                    |
| Channel Bandwidth: 15+10 MHz / 64QAM  |             |                 |               |                        |            |           |                    |
| Plane                                 | Channel     | Frequency (MHz) | Reading (dBm) | Correction Factor (dB) | EIRP (dBm) | EIRP (mW) | Polarization (H/V) |
| X                                     | 39725+39845 | 2509.5          | -24.24        | 44.16                  | 19.92      | 98.17     | H                  |
|                                       | 40571+40691 | 2594.1          | -25.21        | 44.20                  | 18.99      | 79.20     |                    |
|                                       | 41417+41537 | 2678.7          | -24.96        | 44.81                  | 19.85      | 96.54     |                    |
|                                       | 39725+39845 | 2509.5          | -29.16        | 44.78                  | 15.62      | 36.48     | V                  |
|                                       | 40571+40691 | 2594.1          | -28.81        | 44.09                  | 15.28      | 33.71     |                    |
|                                       | 41417+41537 | 2678.7          | -29.31        | 44.72                  | 15.41      | 34.75     |                    |
| Channel Bandwidth: 15+10 MHz / 256QAM |             |                 |               |                        |            |           |                    |
| Plane                                 | Channel     | Frequency (MHz) | Reading (dBm) | Correction Factor (dB) | EIRP (dBm) | EIRP (mW) | Polarization (H/V) |
| X                                     | 39725+39845 | 2509.5          | -25.12        | 44.16                  | 19.04      | 80.17     | H                  |
|                                       | 40571+40691 | 2594.1          | -26.17        | 44.20                  | 18.03      | 63.49     |                    |
|                                       | 41417+41537 | 2678.7          | -26.18        | 44.81                  | 18.63      | 72.90     |                    |
|                                       | 39725+39845 | 2509.5          | -29.90        | 44.78                  | 14.88      | 30.76     | V                  |
|                                       | 40571+40691 | 2594.1          | -29.81        | 44.09                  | 14.28      | 26.78     |                    |
|                                       | 41417+41537 | 2678.7          | -30.43        | 44.72                  | 14.29      | 26.85     |                    |

Note: EIRP (dBm) = Reading (dBm) + Correction Factor (dB)

| LTE Band 66 (CA 66C)                  |               |                 |               |                        |            |           |                    |
|---------------------------------------|---------------|-----------------|---------------|------------------------|------------|-----------|--------------------|
| Channel Bandwidth: 20+20 MHz / QPSK   |               |                 |               |                        |            |           |                    |
| Plane                                 | Channel       | Frequency (MHz) | Reading (dBm) | Correction Factor (dB) | EIRP (dBm) | EIRP (mW) | Polarization (H/V) |
| X                                     | 132072+132270 | 1729.9          | -14.30        | 36.45                  | 22.15      | 164.06    | H                  |
|                                       | 132323+132521 | 1755.0          | -14.29        | 36.80                  | 22.51      | 178.20    |                    |
|                                       | 132374+132572 | 1760.1          | -14.53        | 36.94                  | 22.41      | 174.30    |                    |
|                                       | 132072+132270 | 1729.9          | -19.19        | 37.28                  | 18.09      | 64.37     | V                  |
|                                       | 132323+132521 | 1755.0          | -19.42        | 37.63                  | 18.21      | 66.22     |                    |
|                                       | 132374+132572 | 1760.1          | -19.33        | 37.64                  | 18.31      | 67.76     |                    |
| Channel Bandwidth: 20+20 MHz / 16QAM  |               |                 |               |                        |            |           |                    |
| Plane                                 | Channel       | Frequency (MHz) | Reading (dBm) | Correction Factor (dB) | EIRP (dBm) | EIRP (mW) | Polarization (H/V) |
| X                                     | 132072+132270 | 1729.9          | -15.50        | 36.45                  | 20.95      | 124.45    | H                  |
|                                       | 132323+132521 | 1755.0          | -15.29        | 36.80                  | 21.51      | 141.55    |                    |
|                                       | 132374+132572 | 1760.1          | -15.73        | 36.94                  | 21.21      | 132.22    |                    |
|                                       | 132072+132270 | 1729.9          | -20.39        | 37.28                  | 16.89      | 48.83     | V                  |
|                                       | 132323+132521 | 1755.0          | -20.42        | 37.63                  | 17.21      | 52.60     |                    |
|                                       | 132374+132572 | 1760.1          | -20.33        | 37.64                  | 17.31      | 53.83     |                    |
| Channel Bandwidth: 20+20 MHz / 64QAM  |               |                 |               |                        |            |           |                    |
| Plane                                 | Channel       | Frequency (MHz) | Reading (dBm) | Correction Factor (dB) | EIRP (dBm) | EIRP (mW) | Polarization (H/V) |
| X                                     | 132072+132270 | 1729.9          | -16.50        | 36.45                  | 19.95      | 98.86     | H                  |
|                                       | 132323+132521 | 1755.0          | -16.29        | 36.80                  | 20.51      | 112.43    |                    |
|                                       | 132374+132572 | 1760.1          | -16.93        | 36.94                  | 20.01      | 100.30    |                    |
|                                       | 132072+132270 | 1729.9          | -21.29        | 37.28                  | 15.99      | 39.69     | V                  |
|                                       | 132323+132521 | 1755.0          | -21.62        | 37.63                  | 16.01      | 39.90     |                    |
|                                       | 132374+132572 | 1760.1          | -21.23        | 37.64                  | 16.41      | 43.75     |                    |
| Channel Bandwidth: 20+20 MHz / 256QAM |               |                 |               |                        |            |           |                    |
| Plane                                 | Channel       | Frequency (MHz) | Reading (dBm) | Correction Factor (dB) | EIRP (dBm) | EIRP (mW) | Polarization (H/V) |
| X                                     | 132072+132270 | 1729.9          | -17.40        | 36.45                  | 19.05      | 80.35     | H                  |
|                                       | 132323+132521 | 1755.0          | -17.39        | 36.80                  | 19.41      | 87.28     |                    |
|                                       | 132374+132572 | 1760.1          | -17.93        | 36.94                  | 19.01      | 79.67     |                    |
|                                       | 132072+132270 | 1729.9          | -22.29        | 37.28                  | 14.99      | 31.53     | V                  |
|                                       | 132323+132521 | 1755.0          | -22.82        | 37.63                  | 14.81      | 30.27     |                    |
|                                       | 132374+132572 | 1760.1          | -22.33        | 37.64                  | 15.31      | 33.96     |                    |

Note: EIRP (dBm) = Reading (dBm) + Correction Factor (dB)



| LTE Band 66B (CA 66B)                 |               |                 |               |                        |            |           |                    |
|---------------------------------------|---------------|-----------------|---------------|------------------------|------------|-----------|--------------------|
| Channel Bandwidth: 10+10 MHz / QPSK   |               |                 |               |                        |            |           |                    |
| Plane                                 | Channel       | Frequency (MHz) | Reading (dBm) | Correction Factor (dB) | EIRP (dBm) | EIRP (mW) | Polarization (H/V) |
| X                                     | 132022+132121 | 1720.0          | -14.40        | 36.45                  | 22.05      | 160.32    | H                  |
|                                       | 132373+132472 | 1755.1          | -14.53        | 36.80                  | 22.27      | 168.62    |                    |
|                                       | 132523+132622 | 1770.1          | -14.67        | 36.94                  | 22.27      | 168.77    |                    |
|                                       | V             | 132022+132121   | 1720.0        | -19.31                 | 37.28      | 17.97     | 62.62              |
|                                       |               | 132373+132472   | 1755.1        | -19.66                 | 37.63      | 17.97     | 62.66              |
|                                       |               | 132523+132622   | 1770.1        | -19.45                 | 37.64      | 18.19     | 65.92              |
| Channel Bandwidth: 10+10 MHz / 16QAM  |               |                 |               |                        |            |           |                    |
| Plane                                 | Channel       | Frequency (MHz) | Reading (dBm) | Correction Factor (dB) | EIRP (dBm) | EIRP (mW) | Polarization (H/V) |
| X                                     | 132022+132121 | 1720.0          | -15.30        | 36.45                  | 21.15      | 130.32    | H                  |
|                                       | 132373+132472 | 1755.1          | -15.63        | 36.80                  | 21.17      | 130.89    |                    |
|                                       | 132523+132622 | 1770.1          | -15.87        | 36.94                  | 21.07      | 128.03    |                    |
|                                       | V             | 132022+132121   | 1720.0        | -20.21                 | 37.28      | 17.07     | 50.90              |
|                                       |               | 132373+132472   | 1755.1        | -20.86                 | 37.63      | 16.77     | 47.53              |
|                                       |               | 132523+132622   | 1770.1        | -20.45                 | 37.64      | 17.19     | 52.36              |
| Channel Bandwidth: 10+10 MHz / 64QAM  |               |                 |               |                        |            |           |                    |
| Plane                                 | Channel       | Frequency (MHz) | Reading (dBm) | Correction Factor (dB) | EIRP (dBm) | EIRP (mW) | Polarization (H/V) |
| X                                     | 132022+132121 | 1720.0          | -16.30        | 36.45                  | 20.15      | 103.51    | H                  |
|                                       | 132373+132472 | 1755.1          | -16.83        | 36.80                  | 19.97      | 99.29     |                    |
|                                       | 132523+132622 | 1770.1          | -16.77        | 36.94                  | 20.17      | 104.06    |                    |
|                                       | V             | 132022+132121   | 1720.0        | -21.31                 | 37.28      | 15.97     | 39.51              |
|                                       |               | 132373+132472   | 1755.1        | -21.96                 | 37.63      | 15.67     | 36.90              |
|                                       |               | 132523+132622   | 1770.1        | -21.65                 | 37.64      | 15.99     | 39.72              |
| Channel Bandwidth: 10+10 MHz / 256QAM |               |                 |               |                        |            |           |                    |
| Plane                                 | Channel       | Frequency (MHz) | Reading (dBm) | Correction Factor (dB) | EIRP (dBm) | EIRP (mW) | Polarization (H/V) |
| X                                     | 132022+132121 | 1720.0          | -17.40        | 36.45                  | 19.05      | 80.35     | H                  |
|                                       | 132373+132472 | 1755.1          | -18.03        | 36.80                  | 18.77      | 75.32     |                    |
|                                       | 132523+132622 | 1770.1          | -17.87        | 36.94                  | 19.07      | 80.78     |                    |
|                                       | V             | 132022+132121   | 1720.0        | -22.51                 | 37.28      | 14.77     | 29.97              |
|                                       |               | 132373+132472   | 1755.1        | -23.16                 | 37.63      | 14.47     | 27.99              |
|                                       |               | 132523+132622   | 1770.1        | -22.45                 | 37.64      | 15.19     | 33.04              |

Note: EIRP (dBm) = Reading (dBm) + Correction Factor (dB)

## 4.2 Radiated Emission Measurement

### 4.2.1 Limits of Radiated Emission Measurement

For LTE Band 66

According to FCC 27.53(h) for operations in the 1695-1710 MHz, 1710-1755 MHz, 1755-1780 MHz, 1915-1920 MHz, 1995-2000 MHz, 2000-2020 MHz, 2110-2155 MHz, 2155-2180 MHz, and 2180-2200 bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least  $43 + 10 \log (P)$  dB.

For LTE Band 7, 38, 41

In the FCC 27.53(m) (4)(6), On any frequency outside a licensee's frequency block, The power of any emission shall be attenuated below the transmitter power (P) by at least  $55 + 10 \log (P)$  dB. The emission limit equal to  $-25\text{dBm}$ .

### 4.2.2 Test Procedure

- a. The power was measured with R&S Spectrum Analyzer. All measurements were done at 3 channels (low, In the semi-anechoic chamber, EUT placed on the 0.8m (below or equal 1 GHz) and/or 1.5 m (above 1 GHz) height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.
- b.  $\text{EIRP} = \text{Output power level} - \text{TX cable loss} + \text{Antenna gain of substitution horn}$ . Correction Factor (includes EIRP and ERP unit conversion factor) =  $\text{Antenna gain of substitution horn} - \text{Tx cable loss}$ . Measurement method refers to ANSI C63.26 section 5.2.7 & 5.5.
- c. E.R.P power can be calculated form E.I.R.P power by subtracting the gain of dipole,  $\text{E.R.P power} = \text{E.I.R.P power} - 2.15\text{dBi}$ .

Note:

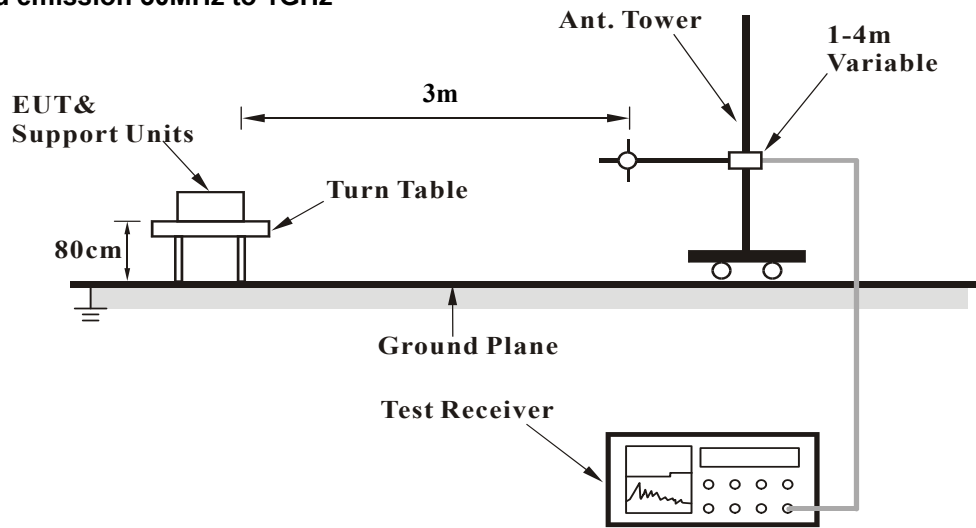
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1MHz/3MHz.
2. The emission levels were against the limit of frequency range 9 kHz ~ 30 MHz:  
The amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required to be report.

### 4.2.3 Deviation from Test Standard

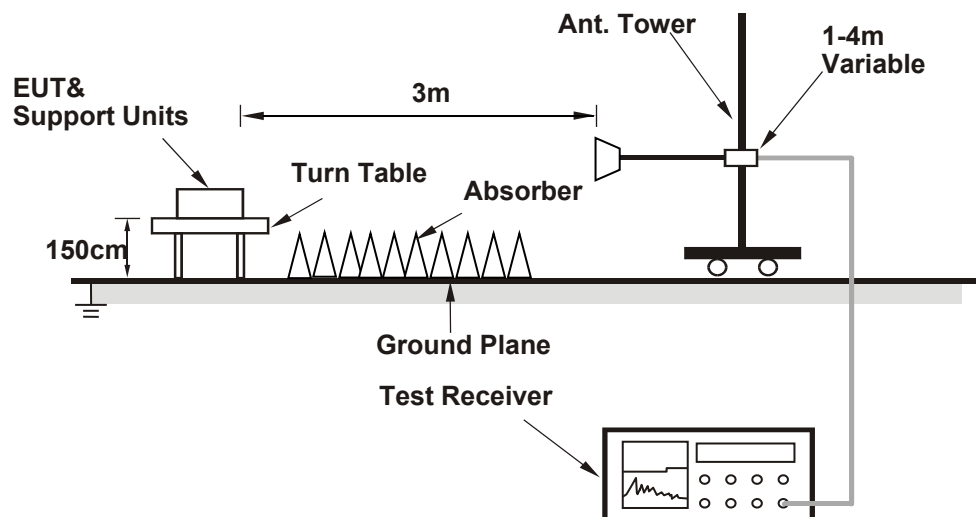
No deviation.

#### 4.2.4 Test Setup

For radiated emission 30MHz to 1GHz



For radiated emission above 1GHz



For the actual test configuration, please refer to the attached file (Test Setup Photo).

#### 4.2.5 Test Results

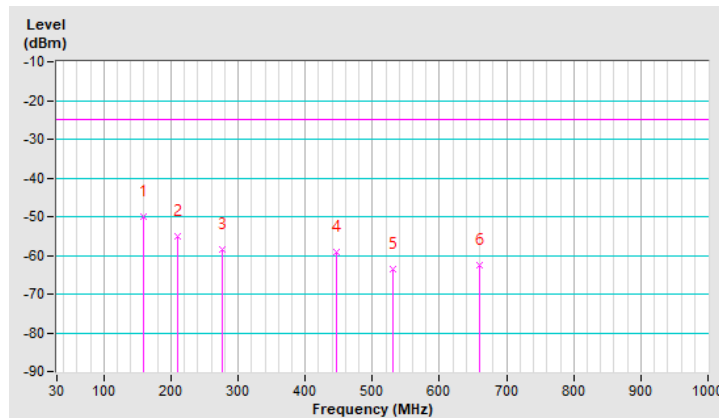
Below 1GHz  
LTE Band 7 (CA 7C)

|                          |   |                 |                |
|--------------------------|---|-----------------|----------------|
| Mode                     | TX channel 20850<br>(2510.0MHz)+<br>TX channel 21048<br>(2529.8MHz) | Frequency Range | Below 1000 MHz |
| Environmental Conditions | 22deg. C, 66%RH   | Input Power     | 120Vac, 60Hz   |
| Tested By                | Hans Wu   |                 |                |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |            |             |             |                    |                      |                  |                          |
|--|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBUV) | Correction Factor (dB/m) |
| 1  | 159.98          | -50.10     | -25.00      | -25.10      | 1.00 H             | 36                   | 53.80            | -103.90                  |
| 2  | 209.45          | -55.10     | -25.00      | -30.10      | 1.50 H             | 36                   | 51.60            | -106.70                  |
| 3  | 277.35          | -58.40     | -25.00      | -33.40      | 1.25 H             | 253                  | 44.40            | -102.80                  |
| 4  | 446.13          | -59.00     | -25.00      | -34.00      | 1.00 H             | 267                  | 39.90            | -98.90                   |
| 5  | 530.52          | -63.50     | -25.00      | -38.50      | 1.50 H             | 235                  | 33.70            | -97.20                   |
| 6  | 659.53          | -62.60     | -25.00      | -37.60      | 1.50 H             | 210                  | 32.40            | -95.00                   |

Remarks:

1.  $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3.  $Margin\ value = EIRP - Limit\ value$
4. The other EIRP levels were very low against the limit.

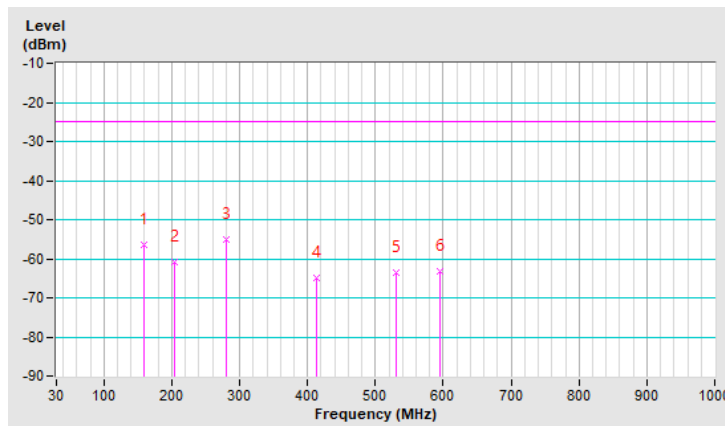


|                          |   |                 |                |
|--------------------------|---|-----------------|----------------|
| Mode                     | TX channel 20850<br>(2510.0MHz)+<br>TX channel 21048<br>(2529.8MHz) | Frequency Range | Below 1000 MHz |
| Environmental Conditions | 22deg. C, 66%RH   | Input Power     | 120Vac, 60Hz   |
| Tested By                | Hans Wu   |                 |                |

| Antenna Polarity & Test Distance : Vertical at 3m |                 |            |             |             |                    |                      |                  |                          |
|---|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No  | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1   | 159.01          | -56.60     | -25.00      | -31.60      | 1.25 V             | 162                  | 47.40            | -104.00                  |
| 2   | 204.60          | -60.90     | -25.00      | -35.90      | 1.25 V             | 195                  | 45.90            | -106.80                  |
| 3   | 281.23          | -55.10     | -25.00      | -30.10      | 1.50 V             | 138                  | 47.60            | -102.70                  |
| 4   | 414.12          | -65.00     | -25.00      | -40.00      | 2.00 V             | 12                   | 35.10            | -100.10                  |
| 5   | 531.49          | -63.60     | -25.00      | -38.60      | 1.00 V             | 208                  | 33.60            | -97.20                   |
| 6   | 595.51          | -63.20     | -25.00      | -38.20      | 1.50 V             | 154                  | 32.60            | -95.80                   |

Remarks:

1.  $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3.  $Margin\ value = EIRP - Limit\ value$
4. The other EIRP levels were very low against the limit.



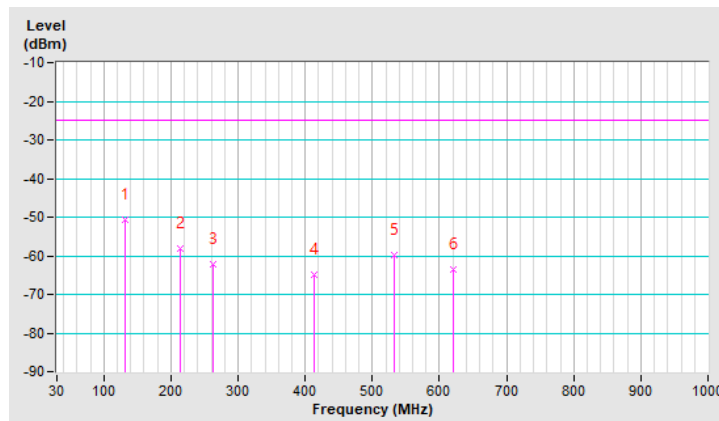
LTE Band 38 (CA 38C)

|                          |   |                 |                |
|--------------------------|---|-----------------|----------------|
| Mode                     | TX channel 37952<br>(2590.2MHz)+<br>TX channel 38150<br>(2610.0MHz) | Frequency Range | Below 1000 MHz |
| Environmental Conditions | 22deg. C, 66%RH   | Input Power     | 120Vac, 60Hz   |
| Tested By                | Rex Wang  |                 |                |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |            |             |             |                    |                      |                  |                          |
|--|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1  | 131.85          | -50.60     | -25.00      | -25.60      | 1.50 H             | 179                  | 54.90            | -105.50                  |
| 2  | 213.33          | -58.10     | -25.00      | -33.10      | 1.25 H             | 59                   | 48.40            | -106.50                  |
| 3  | 262.80          | -62.10     | -25.00      | -37.10      | 1.25 H             | 127                  | 41.60            | -103.70                  |
| 4  | 413.15          | -64.90     | -25.00      | -39.90      | 1.50 H             | 169                  | 35.20            | -100.10                  |
| 5  | 532.46          | -59.90     | -25.00      | -34.90      | 1.00 H             | 183                  | 37.30            | -97.20                   |
| 6  | 619.76          | -63.70     | -25.00      | -38.70      | 1.00 H             | 174                  | 31.70            | -95.40                   |

Remarks:

1.  $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

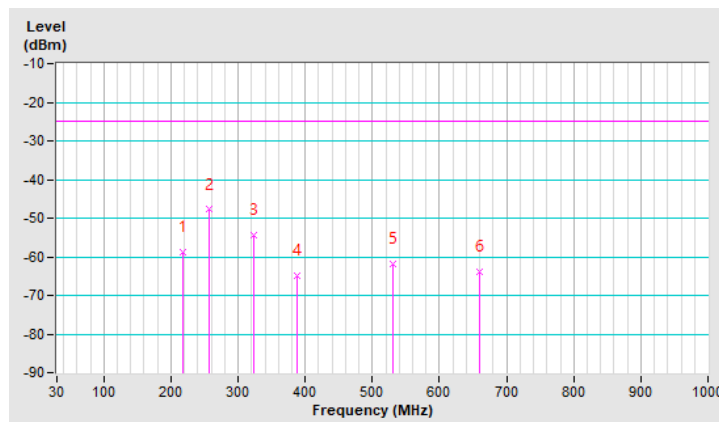


|                          |   |                 |                |
|--------------------------|---|-----------------|----------------|
| Mode                     | TX channel 37952<br>(2590.2MHz)+<br>TX channel 38150<br>(2610.0MHz) | Frequency Range | Below 1000 MHz |
| Environmental Conditions | 22deg. C, 66%RH   | Input Power     | 120Vac, 60Hz   |
| Tested By                | Rex Wang  |                 |                |

| Antenna Polarity & Test Distance : Vertical at 3m |                 |            |             |             |                    |                      |                  |                          |
|---|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No  | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1   | 217.21          | -58.70     | -25.00      | -33.70      | 1.00 V             | 304                  | 47.70            | -106.40                  |
| 2   | 256.98          | -47.80     | -25.00      | -22.80      | 1.00 V             | 96                   | 56.30            | -104.10                  |
| 3   | 322.94          | -54.50     | -25.00      | -29.50      | 1.50 V             | 129                  | 47.10            | -101.60                  |
| 4   | 386.96          | -64.90     | -25.00      | -39.90      | 1.50 V             | 5                    | 35.70            | -100.60                  |
| 5   | 530.52          | -62.00     | -25.00      | -37.00      | 2.00 V             | 173                  | 35.20            | -97.20                   |
| 6   | 660.50          | -63.80     | -25.00      | -38.80      | 1.50 V             | 186                  | 31.20            | -95.00                   |

Remarks:

1.  $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.



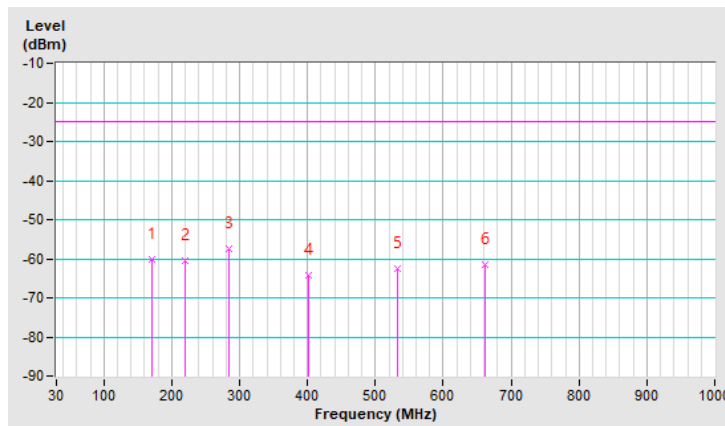
LTE Band 41 (CA 41C)

|                          |   |                 |                |
|--------------------------|---|-----------------|----------------|
| Mode                     | TX channel 39750<br>(2506.0MHz)+<br>TX channel 39948<br>(2525.8MHz) | Frequency Range | Below 1000 MHz |
| Environmental Conditions | 22deg. C, 66%RH   | Input Power     | 120Vac, 60Hz   |
| Tested By                | Rex Wang  |                 |                |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |            |             |             |                    |                      |                  |                          |
|--|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1  | 171.62          | -60.00     | -25.00      | -35.00      | 1.25 H             | 195                  | 44.50            | -104.50                  |
| 2  | 220.12          | -60.60     | -25.00      | -35.60      | 1.50 H             | 5                    | 45.80            | -106.40                  |
| 3  | 284.14          | -57.50     | -25.00      | -32.50      | 1.25 H             | 62                   | 45.10            | -102.60                  |
| 4  | 402.48          | -64.40     | -25.00      | -39.40      | 1.25 H             | 316                  | 35.80            | -100.20                  |
| 5  | 532.46          | -62.70     | -25.00      | -37.70      | 1.50 H             | 167                  | 34.50            | -97.20                   |
| 6  | 662.44          | -61.40     | -25.00      | -36.40      | 1.00 H             | 185                  | 33.60            | -95.00                   |

Remarks:

1.  $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3.  $Margin\ value = EIRP - Limit\ value$
4. The other EIRP levels were very low against the limit.



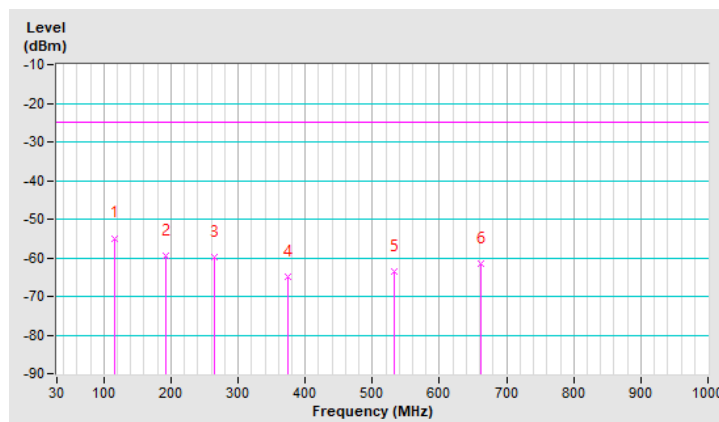


|                          |   |                 |                |
|--------------------------|---|-----------------|----------------|
| Mode                     | TX channel 41292<br>(2660.2MHz)+<br>TX channel 41490<br>(2680.0MHz) | Frequency Range | Below 1000 MHz |
| Environmental Conditions | 22deg. C, 66%RH   | Input Power     | 120Vac, 60Hz   |
| Tested By                | Rex Wang  |                 |                |

| Antenna Polarity & Test Distance : Vertical at 3m |                 |            |             |             |                    |                      |                  |                          |
|---|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No  | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1   | 116.33          | -54.90     | -25.00      | -29.90      | 1.50 V             | 29                   | 52.10            | -107.00                  |
| 2   | 191.99          | -59.60     | -25.00      | -34.60      | 1.25 V             | 123                  | 47.10            | -106.70                  |
| 3   | 264.74          | -59.80     | -25.00      | -34.80      | 1.50 V             | 123                  | 43.80            | -103.60                  |
| 4   | 374.35          | -64.90     | -25.00      | -39.90      | 1.25 V             | 56                   | 36.00            | -100.90                  |
| 5   | 533.43          | -63.40     | -25.00      | -38.40      | 1.00 V             | 205                  | 33.80            | -97.20                   |
| 6   | 662.44          | -61.60     | -25.00      | -36.60      | 1.50 V             | 172                  | 33.40            | -95.00                   |

Remarks:

1.  $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.



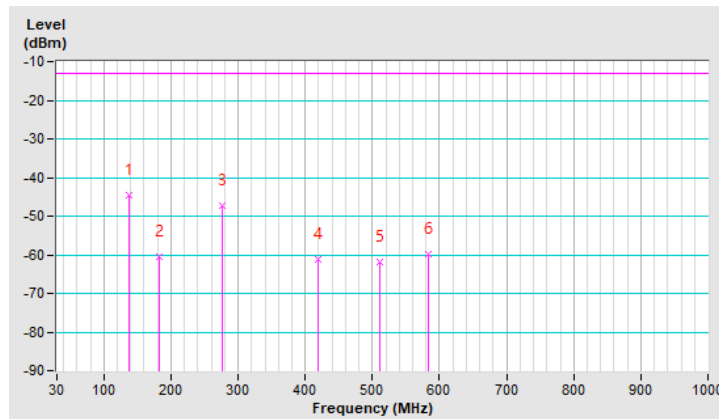
LTE Band 66 (CA 66C)

|                          |   |                 |                |
|--------------------------|---|-----------------|----------------|
| Mode                     | TX channel 132374<br>(1750.2MHz)+<br>TX channel 132572<br>(1770.0MHz) | Frequency Range | Below 1000 MHz |
| Environmental Conditions | 22deg. C, 66%RH   | Input Power     | 120Vac, 60Hz   |
| Tested By                | Rex Wang  |                 |                |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |            |             |             |                    |                      |                  |                          |
|--|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1  | 136.70          | -44.60     | -13.00      | -31.60      | 1.50 H             | 138                  | 60.40            | -105.00                  |
| 2  | 183.26          | -60.60     | -13.00      | -47.60      | 1.00 H             | 91                   | 45.30            | -105.90                  |
| 3  | 276.38          | -47.40     | -13.00      | -34.40      | 1.25 H             | 138                  | 55.50            | -102.90                  |
| 4  | 419.94          | -61.20     | -13.00      | -48.20      | 1.50 H             | 138                  | 38.50            | -99.70                   |
| 5  | 511.12          | -62.00     | -13.00      | -49.00      | 1.00 H             | 138                  | 35.50            | -97.50                   |
| 6  | 583.87          | -59.90     | -13.00      | -46.90      | 1.50 H             | 138                  | 36.20            | -96.10                   |

Remarks:

1.  $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3.  $Margin\ value = EIRP - Limit\ value$
4. The other EIRP levels were very low against the limit.

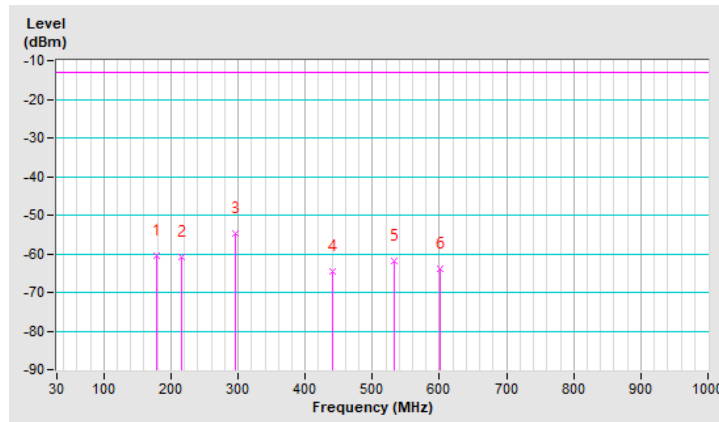


|                          |   |                 |                |
|--------------------------|---|-----------------|----------------|
| Mode                     | TX channel 132374<br>(1750.2MHz)+<br>TX channel 132572<br>(1770.0MHz) | Frequency Range | Below 1000 MHz |
| Environmental Conditions | 22deg. C, 66%RH   | Input Power     | 120Vac, 60Hz   |
| Tested By                | Rex Wang  |                 |                |

| Antenna Polarity & Test Distance : Vertical at 3m |                 |            |             |             |                    |                      |                  |                          |
|---|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No  | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1   | 178.41          | -60.50     | -13.00      | -47.50      | 1.25 V             | 253                  | 44.70            | -105.20                  |
| 2   | 215.27          | -60.70     | -13.00      | -47.70      | 1.50 V             | 7                    | 45.80            | -106.50                  |
| 3   | 295.78          | -54.80     | -13.00      | -41.80      | 1.25 V             | 144                  | 47.60            | -102.40                  |
| 4   | 440.31          | -64.70     | -13.00      | -51.70      | 1.00 V             | 234                  | 34.30            | -99.00                   |
| 5   | 532.46          | -62.00     | -13.00      | -49.00      | 1.00 V             | 159                  | 35.20            | -97.20                   |
| 6   | 601.33          | -64.00     | -13.00      | -51.00      | 1.50 V             | 171                  | 31.70            | -95.70                   |

Remarks:

1.  $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3.  $Margin\ value = EIRP - Limit\ value$
4. The other EIRP levels were very low against the limit.



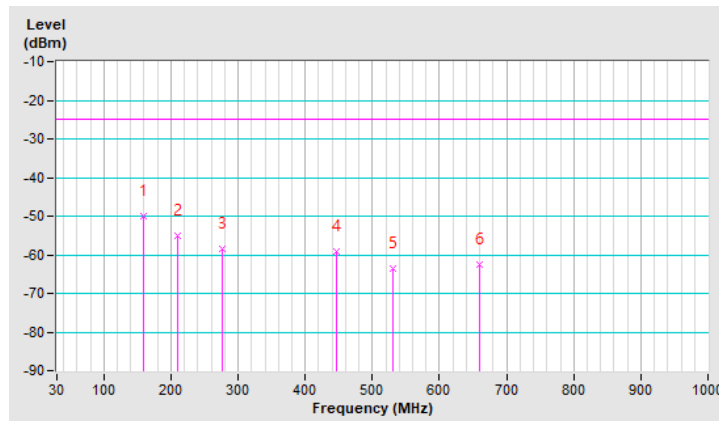
LTE Band 66 (CA 66B)

|                          |   |                 |                |
|--------------------------|---|-----------------|----------------|
| Mode                     | TX channel 132373<br>(1750.1MHz)+<br>TX channel 132472<br>(1760.0MHz) | Frequency Range | Below 1000 MHz |
| Environmental Conditions | 22deg. C, 66%RH   | Input Power     | 120Vac, 60Hz   |
| Tested By                | Rex Wang  |                 |                |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |            |             |             |                    |                      |                  |                          |
|--|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1  | 159.98          | -50.10     | -25.00      | -25.10      | 1.00 H             | 36                   | 53.80            | -103.90                  |
| 2  | 209.45          | -55.10     | -25.00      | -30.10      | 1.50 H             | 36                   | 51.60            | -106.70                  |
| 3  | 277.35          | -58.40     | -25.00      | -33.40      | 1.25 H             | 253                  | 44.40            | -102.80                  |
| 4  | 446.13          | -59.00     | -25.00      | -34.00      | 1.00 H             | 267                  | 39.90            | -98.90                   |
| 5  | 530.52          | -63.50     | -25.00      | -38.50      | 1.50 H             | 235                  | 33.70            | -97.20                   |
| 6  | 659.53          | -62.60     | -25.00      | -37.60      | 1.50 H             | 210                  | 32.40            | -95.00                   |

Remarks:

1.  $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3.  $Margin\ value = EIRP - Limit\ value$
4. The other EIRP levels were very low against the limit.

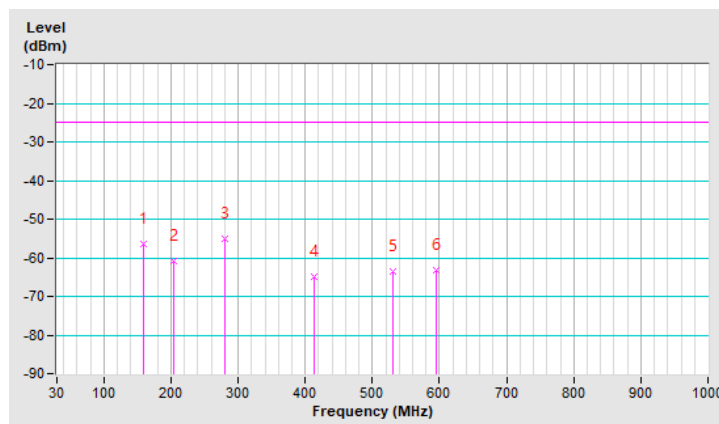


|                          |   |                 |                |
|--------------------------|---|-----------------|----------------|
| Mode                     | TX channel 132373<br>(1750.1MHz)+<br>TX channel 132472<br>(1760.0MHz) | Frequency Range | Below 1000 MHz |
| Environmental Conditions | 22deg. C, 66%RH   | Input Power     | 120Vac, 60Hz   |
| Tested By                | Rex Wang  |                 |                |

| Antenna Polarity & Test Distance : Vertical at 3m |                 |            |             |             |                    |                      |                  |                          |
|---|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No  | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1   | 159.01          | -56.60     | -25.00      | -31.60      | 1.25 V             | 162                  | 47.40            | -104.00                  |
| 2   | 204.60          | -60.90     | -25.00      | -35.90      | 1.25 V             | 195                  | 45.90            | -106.80                  |
| 3   | 281.23          | -55.10     | -25.00      | -30.10      | 1.50 V             | 138                  | 47.60            | -102.70                  |
| 4   | 414.12          | -65.00     | -25.00      | -40.00      | 2.00 V             | 12                   | 35.10            | -100.10                  |
| 5   | 531.49          | -63.60     | -25.00      | -38.60      | 1.00 V             | 208                  | 33.60            | -97.20                   |
| 6   | 595.51          | -63.20     | -25.00      | -38.20      | 1.50 V             | 154                  | 32.60            | -95.80                   |

Remarks:

1.  $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3.  $Margin\ value = EIRP - Limit\ value$
4. The other EIRP levels were very low against the limit.



Above 1GHz  
LTE Band 7 (CA 7C)

|                          |   |                 |              |
|--------------------------|---|-----------------|--------------|
| Mode                     | TX channel 20850<br>(2510.0MHz)+<br>TX channel 21048<br>(2529.8MHz) | Frequency Range | 1GHz ~ 27GHz |
| Environmental Conditions | 22deg. C, 66%RH   | Input Power     | 120Vac, 60Hz |
| Tested By                | Hans Wu   |                 |              |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |            |             |             |                    |                      |                  |                          |
|--|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1  | 5020.00         | -47.23     | -25.00      | -22.23      | 2.18 H             | 99                   | 40.71            | -87.94                   |
| 2  | 5059.60         | -46.61     | -25.00      | -21.61      | 1.75 H             | 200                  | 41.02            | -87.63                   |
| Antenna Polarity & Test Distance : Vertical at 3m    |                 |            |             |             |                    |                      |                  |                          |
| No   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1  | 5020.00         | -47.60     | -25.00      | -22.60      | 1.62 V             | 184                  | 40.34            | -87.94                   |
| 2  | 5059.60         | -46.30     | -25.00      | -21.30      | 1.61 V             | 180                  | 41.33            | -87.63                   |

Remarks:

1.  $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

|                          |   |                 |              |
|--------------------------|---|-----------------|--------------|
| Mode                     | TX channel 21001<br>(2525.1MHz)+<br>TX channel 21199<br>(2544.9MHz) | Frequency Range | 1GHz ~ 27GHz |
| Environmental Conditions | 22deg. C, 66%RH   | Input Power     | 120Vac, 60Hz |
| Tested By                | Hans Wu   |                 |              |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |            |             |             |                    |                      |                  |                          |
|--|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1  | 5050.20         | -47.64     | -25.00      | -22.64      | 1.83 H             | 179                  | 39.94            | -87.58                   |
| 2  | 5089.80         | -47.22     | -25.00      | -22.22      | 1.52 H             | 30                   | 40.56            | -87.78                   |
| Antenna Polarity & Test Distance : Vertical at 3m    |                 |            |             |             |                    |                      |                  |                          |
| No   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1  | 5050.20         | -47.47     | -25.00      | -22.47      | 2.15 V             | 356                  | 40.11            | -87.58                   |
| 2  | 5089.80         | -46.43     | -25.00      | -21.43      | 1.94 V             | 2                    | 41.35            | -87.78                   |

Remarks:

1.  $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

|                          |   |                 |              |
|--------------------------|---|-----------------|--------------|
| Mode                     | TX channel 21152<br>(2540.2MHz)+<br>TX channel 21350<br>(2560.0MHz) | Frequency Range | 1GHz ~ 27GHz |
| Environmental Conditions | 22deg. C, 66%RH   | Input Power     | 120Vac, 60Hz |
| Tested By                | Hans Wu   |                 |              |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |            |             |             |                    |                      |                  |                          |
|--|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1  | 5080.40         | -47.46     | -25.00      | -22.46      | 1.64 H             | 110                  | 40.27            | -87.73                   |
| 2  | 5120.00         | -47.41     | -25.00      | -22.41      | 1.61 H             | 99                   | 40.49            | -87.90                   |
| Antenna Polarity & Test Distance : Vertical at 3m    |                 |            |             |             |                    |                      |                  |                          |
| No   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1  | 5080.40         | -47.15     | -25.00      | -22.15      | 2.23 V             | 0                    | 40.58            | -87.73                   |
| 2  | 5120.00         | -48.22     | -25.00      | -23.22      | 2.06 V             | 344                  | 39.68            | -87.90                   |

Remarks:

1.  $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

LTE Band 38 (CA 38C)

|                          |   |                 |              |
|--------------------------|---|-----------------|--------------|
| Mode                     | TX channel 37850<br>(2580.0MHz)+<br>TX channel 38048<br>(2599.8MHz) | Frequency Range | 1GHz ~ 27GHz |
| Environmental Conditions | 22deg. C, 66%RH   | Input Power     | 120Vac, 60Hz |
| Tested By                | Rex Wang  |                 |              |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |            |             |             |                    |                      |                  |                          |
|--|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1  | 5160.00         | -44.75     | -25.00      | -19.75      | 3.60 H             | 72                   | 43.23            | -87.98                   |
| 2  | 5199.60         | -44.81     | -25.00      | -19.81      | 3.58 H             | 77                   | 43.15            | -87.96                   |
| Antenna Polarity & Test Distance : Vertical at 3m    |                 |            |             |             |                    |                      |                  |                          |
| No   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1  | 5160.00         | -45.76     | -25.00      | -20.76      | 1.89 V             | 14                   | 42.22            | -87.98                   |
| 2  | 5199.60         | -45.99     | -25.00      | -20.99      | 1.94 V             | 17                   | 41.97            | -87.96                   |

Remarks:

1.  $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

|                          |   |                 |              |
|--------------------------|---|-----------------|--------------|
| Mode                     | TX channel 37901<br>(2585.1MHz)+<br>TX channel 38099<br>(2604.9MHz) | Frequency Range | 1GHz ~ 27GHz |
| Environmental Conditions | 22deg. C, 66%RH   | Input Power     | 120Vac, 60Hz |
| Tested By                | Rex Wang  |                 |              |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |            |             |             |                    |                      |                  |                          |
|--|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1  | 5170.20         | -45.63     | -25.00      | -20.63      | 3.66 H             | 70                   | 42.35            | -87.98                   |
| 2  | 5209.80         | -46.02     | -25.00      | -21.02      | 3.55 H             | 72                   | 41.95            | -87.97                   |
| Antenna Polarity & Test Distance : Vertical at 3m    |                 |            |             |             |                    |                      |                  |                          |
| No   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1  | 5170.20         | -45.73     | -25.00      | -20.73      | 1.92 V             | 15                   | 42.25            | -87.98                   |
| 2  | 5209.80         | -45.94     | -25.00      | -20.94      | 1.84 V             | 14                   | 42.03            | -87.97                   |

Remarks:

1.  $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.



|                          |   |                 |              |
|--------------------------|---|-----------------|--------------|
| Mode                     | TX channel 37952<br>(2590.2MHz)+<br>TX channel 38150<br>(2610.0MHz) | Frequency Range | 1GHz ~ 27GHz |
| Environmental Conditions | 22deg. C, 66%RH   | Input Power     | 120Vac, 60Hz |
| Tested By                | Rex Wang  |                 |              |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |               |               |               |                    |                      |                  |                          |
|--|-----------------|---------------|---------------|---------------|--------------------|----------------------|------------------|--------------------------|
| No   | Frequency (MHz) | EIRP (dBm)    | Limit (dBm)   | Margin (dB)   | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1  | 5180.40         | -45.41        | -25.00        | -20.41        | 3.65 H             | 76                   | 42.56            | -87.97                   |
| 2  | 5220.00         | -46.00        | -25.00        | -21.00        | 3.57 H             | 74                   | 41.99            | -87.99                   |
| Antenna Polarity & Test Distance : Vertical at 3m    |                 |               |               |               |                    |                      |                  |                          |
| No   | Frequency (MHz) | EIRP (dBm)    | Limit (dBm)   | Margin (dB)   | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| <b>1</b>   | <b>5180.40</b>  | <b>-44.61</b> | <b>-25.00</b> | <b>-19.61</b> | <b>1.88 V</b>      | <b>15</b>            | <b>43.36</b>     | <b>-87.97</b>            |
| 2  | 5220.00         | -45.02        | -25.00        | -20.02        | 1.99 V             | 20                   | 42.97            | -87.99                   |

Remarks:

1.  $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3.  $Margin\ value = EIRP - Limit\ value$
4. The other EIRP levels were very low against the limit.

LTE Band 41 (CA 41C)

|                          |   |                 |              |
|--------------------------|---|-----------------|--------------|
| Mode                     | TX channel 39750<br>(2506.0MHz)+<br>TX channel 39948<br>(2525.8MHz) | Frequency Range | 1GHz ~ 27GHz |
| Environmental Conditions | 22deg. C, 66%RH   | Input Power     | 120Vac, 60Hz |
| Tested By                | Rex Wang  |                 |              |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |            |             |             |                    |                      |                  |                          |
|--|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1  | 5012.00         | -46.16     | -25.00      | -21.16      | 2.40 H             | 19                   | 41.87            | -88.03                   |
| 2  | 5051.60         | -45.36     | -25.00      | -20.36      | 2.44 H             | 28                   | 42.23            | -87.59                   |
| Antenna Polarity & Test Distance : Vertical at 3m    |                 |            |             |             |                    |                      |                  |                          |
| No   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1  | 5012.00         | -46.47     | -25.00      | -21.47      | 1.38 V             | 232                  | 41.56            | -88.03                   |
| 2  | 5051.60         | -45.76     | -25.00      | -20.76      | 1.33 V             | 240                  | 41.83            | -87.59                   |

Remarks:

1.  $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

|                          |   |                 |              |
|--------------------------|---|-----------------|--------------|
| Mode                     | TX channel 40521<br>(2583.1MHz)+<br>TX channel 40719<br>(2602.9MHz) | Frequency Range | 1GHz ~ 27GHz |
| Environmental Conditions | 22deg. C, 66%RH   | Input Power     | 120Vac, 60Hz |
| Tested By                | Rex Wang  |                 |              |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |            |             |             |                    |                      |                  |                          |
|--|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1  | 5166.20         | -46.10     | -25.00      | -21.10      | 2.44 H             | 23                   | 41.88            | -87.98                   |
| 2  | 5205.80         | -45.82     | -25.00      | -20.82      | 2.45 H             | 27                   | 42.15            | -87.97                   |
| Antenna Polarity & Test Distance : Vertical at 3m    |                 |            |             |             |                    |                      |                  |                          |
| No   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1  | 5166.20         | -46.43     | -25.00      | -21.43      | 1.36 V             | 237                  | 41.55            | -87.98                   |
| 2  | 5205.80         | -46.01     | -25.00      | -21.01      | 1.35 V             | 242                  | 41.96            | -87.97                   |

Remarks:

1.  $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

|                          |   |                 |              |
|--------------------------|---|-----------------|--------------|
| Mode                     | TX channel 41292<br>(2660.2MHz)+<br>TX channel 41490<br>(2680.0MHz) | Frequency Range | 1GHz ~ 27GHz |
| Environmental Conditions | 22deg. C, 66%RH   | Input Power     | 120Vac, 60Hz |
| Tested By                | Rex Wang  |                 |              |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |            |             |             |                    |                      |                  |                          |
|--|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1  | 5205.80         | -45.99     | -25.00      | -20.99      | 2.45 H             | 19                   | 41.98            | -87.97                   |
| 2  | 5360.00         | -46.26     | -25.00      | -21.26      | 2.41 H             | 20                   | 42.03            | -88.29                   |
| Antenna Polarity & Test Distance : Vertical at 3m    |                 |            |             |             |                    |                      |                  |                          |
| No   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1  | 5205.80         | -46.01     | -25.00      | -21.01      | 1.35 V             | 242                  | 41.96            | -87.97                   |
| 2  | 5360.00         | -46.31     | -25.00      | -21.31      | 1.42 V             | 230                  | 41.98            | -88.29                   |

Remarks:

1.  $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3.  $Margin\ value = EIRP - Limit\ value$
4. The other EIRP levels were very low against the limit.

LTE Band 66 (CA 66C)

|                          |   |                 |              |
|--------------------------|---|-----------------|--------------|
| Mode                     | TX channel 132072<br>(1720.0MHz)+<br>TX channel 132270<br>(1739.8MHz) | Frequency Range | 1GHz ~ 18GHz |
| Environmental Conditions | 22deg. C, 66%RH   | Input Power     | 120Vac, 60Hz |
| Tested By                | Rex Wang  |                 |              |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |            |             |             |                    |                      |                  |                          |
|--|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1  | 3440.00         | -47.73     | -13.00      | -34.73      | 2.32 H             | 154                  | 45.38            | -93.11                   |
| 2  | 3479.60         | -46.86     | -13.00      | -33.86      | 2.42 H             | 158                  | 45.88            | -92.74                   |
| Antenna Polarity & Test Distance : Vertical at 3m    |                 |            |             |             |                    |                      |                  |                          |
| No   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1  | 3440.00         | -48.75     | -13.00      | -35.75      | 1.55 V             | 196                  | 44.36            | -93.11                   |
| 2  | 3479.60         | -47.11     | -13.00      | -34.11      | 1.68 V             | 197                  | 45.63            | -92.74                   |

Remarks:

1.  $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

|                          |   |                 |              |
|--------------------------|---|-----------------|--------------|
| Mode                     | TX channel 132323<br>(1745.1MHz)+<br>TX channel 132521<br>(1764.9MHz) | Frequency Range | 1GHz ~ 18GHz |
| Environmental Conditions | 22deg. C, 66%RH   | Input Power     | 120Vac, 60Hz |
| Tested By                | Rex Wang  |                 |              |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |            |             |             |                    |                      |                  |                          |
|--|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1  | 3490.20         | -46.97     | -13.00      | -33.97      | 2.35 H             | 157                  | 45.66            | -92.63                   |
| 2  | 3529.80         | -46.76     | -13.00      | -33.76      | 2.38 H             | 162                  | 45.53            | -92.29                   |
| Antenna Polarity & Test Distance : Vertical at 3m    |                 |            |             |             |                    |                      |                  |                          |
| No   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1  | 3490.20         | -47.66     | -13.00      | -34.66      | 1.59 V             | 195                  | 44.97            | -92.63                   |
| 2  | 3529.80         | -46.97     | -13.00      | -33.97      | 1.62 V             | 197                  | 45.32            | -92.29                   |

Remarks:

1.  $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

|                          |   |                 |              |
|--------------------------|---|-----------------|--------------|
| Mode                     | TX channel 132374<br>(1750.2MHz)+<br>TX channel 132572<br>(1770.0MHz) | Frequency Range | 1GHz ~ 18GHz |
| Environmental Conditions | 22deg. C, 66%RH   | Input Power     | 120Vac, 60Hz |
| Tested By                | Rex Wang  |                 |              |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |            |             |             |                    |                      |                  |                          |
|--|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1  | 3500.40         | -46.66     | -13.00      | -33.66      | 2.39 H             | 152                  | 45.86            | -92.52                   |
| 2  | 3540.00         | -46.44     | -13.00      | -33.44      | 2.40 H             | 159                  | 45.76            | -92.20                   |
| Antenna Polarity & Test Distance : Vertical at 3m    |                 |            |             |             |                    |                      |                  |                          |
| No   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1  | 3500.40         | -46.84     | -13.00      | -33.84      | 1.57 V             | 195                  | 45.68            | -92.52                   |
| 2  | 3540.00         | -46.51     | -13.00      | -33.51      | 1.60 V             | 186                  | 45.69            | -92.20                   |

Remarks:

1.  $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3.  $Margin\ value = EIRP - Limit\ value$
4. The other EIRP levels were very low against the limit.

LTE Band 66 (CA 66B)

|                          |   |                 |              |
|--------------------------|---|-----------------|--------------|
| Mode                     | TX channel 132022<br>(1715.0MHz)+<br>TX channel 132121<br>(1724.9MHz) | Frequency Range | 1GHz ~ 18GHz |
| Environmental Conditions | 22deg. C, 66%RH   | Input Power     | 120Vac, 60Hz |
| Tested By                | Rex Wang  |                 |              |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |            |             |             |                    |                      |                  |                          |
|--|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1  | 3430.00         | -49.65     | -13.00      | -36.65      | 2.27 H             | 255                  | 43.48            | -93.13                   |
| 2  | 3449.80         | -49.68     | -13.00      | -36.68      | 2.25 H             | 257                  | 43.38            | -93.06                   |
| Antenna Polarity & Test Distance : Vertical at 3m    |                 |            |             |             |                    |                      |                  |                          |
| No   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1  | 3430.00         | -50.36     | -13.00      | -37.36      | 1.89 V             | 99                   | 42.77            | -93.13                   |
| 2  | 3449.80         | -50.33     | -13.00      | -37.33      | 1.96 V             | 97                   | 42.73            | -93.06                   |

Remarks:

1.  $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

|                          |   |                 |              |
|--------------------------|---|-----------------|--------------|
| Mode                     | TX channel 132373<br>(1750.1MHz)+<br>TX channel 132472<br>(1760.0MHz) | Frequency Range | 1GHz ~ 18GHz |
| Environmental Conditions | 22deg. C, 66%RH   | Input Power     | 120Vac, 60Hz |
| Tested By                | Rex Wang  |                 |              |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |            |             |             |                    |                      |                  |                          |
|--|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1  | 3500.20         | -48.39     | -13.00      | -35.39      | 2.22 H             | 255                  | 44.13            | -92.52                   |
| 2  | 3520.00         | -48.04     | -13.00      | -35.04      | 2.28 H             | 258                  | 44.32            | -92.36                   |
| Antenna Polarity & Test Distance : Vertical at 3m    |                 |            |             |             |                    |                      |                  |                          |
| No   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1  | 3500.20         | -48.94     | -13.00      | -35.94      | 1.89 V             | 100                  | 43.58            | -92.52                   |
| 2  | 3520.00         | -48.78     | -13.00      | -35.78      | 1.91 V             | 102                  | 43.58            | -92.36                   |

Remarks:

1.  $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

|                          |   |                 |              |
|--------------------------|---|-----------------|--------------|
| Mode                     | TX channel 132523<br>(1765.1MHz)+<br>TX channel 132622<br>(1775.0MHz) | Frequency Range | 1GHz ~ 18GHz |
| Environmental Conditions | 22deg. C, 66%RH   | Input Power     | 120Vac, 60Hz |
| Tested By                | Rex Wang  |                 |              |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |            |             |             |                    |                      |                  |                          |
|--|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1  | 3530.20         | -49.10     | -13.00      | -36.10      | 2.31 H             | 257                  | 43.18            | -92.28                   |
| 2  | 3550.00         | -48.78     | -13.00      | -35.78      | 2.20 H             | 256                  | 43.35            | -92.13                   |
| Antenna Polarity & Test Distance : Vertical at 3m    |                 |            |             |             |                    |                      |                  |                          |
| No   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1  | 3530.20         | -48.98     | -13.00      | -35.98      | 1.91 V             | 100                  | 43.30            | -92.28                   |
| 2  | 3550.00         | -49.18     | -13.00      | -36.18      | 1.90 V             | 98                   | 42.95            | -92.13                   |

Remarks:

1.  $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3.  $Margin\ value = EIRP - Limit\ value$
4. The other EIRP levels were very low against the limit.

## 5 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo).



## Appendix – Information of the Testing Laboratories

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are FCC recognized accredited test firms and accredited and approved according to ISO/IEC 17025.

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The address and road map of all our labs can be found in our web site also.

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