

## FCC Test Report (PART 24)

**Report No.:** RF190617E03B-2

**FCC ID:** APYHRO00274

**Received Date:** July 09, 2019

**Test Date:** July 15 to 24, 2019

**Issued Date:** Aug. 22, 2019

**Applicant:** Sharp Corporation

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**Issued By:** Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch  
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**FCC Registration /  
Designation Number:** 723255 / TW2022



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### Release Control Record

| Issue No.      | Description       | Date Issued   |
|----------------|-------------------|---------------|
| RF190617E03B-2 | Original release. | Aug. 22, 2019 |

## 1 Certificate of Conformity

**Product:** Wireless router

**Sample Status:** ENGINEERING SAMPLE

**Applicant:** Sharp Corporation

**Test Date:** July 15 to 24, 2019

**Standards:** FCC Part 24 Subpart E

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 EMC characteristics under the conditions specified in this report.

**Prepared by :** Wendy Wu , **Date:** Aug. 22, 2019  
Wendy Wu / Specialist

**Approved by :** May Chen , **Date:** Aug. 22, 2019  
May Chen / Manager

## 2 Summary of Test Results

| Applied Standard: FCC Part 24 & Part 2 |                                         |        |                                                                                  |
|----------------------------------------|-----------------------------------------|--------|----------------------------------------------------------------------------------|
| FCC Clause                             | Test Item                               | Result | Remarks                                                                          |
| 2.1046<br>24.232                       | Equivalent Isotropically Radiated Power | PASS   | Meet the requirement of limit.                                                   |
| 2.1046<br>24.232(d)                    | Peak To Average Ratio                   | PASS   | Meet the requirement of limit.                                                   |
| 2.1047                                 | Modulation characteristics              | PASS   | Meet the requirement                                                             |
| 2.1055<br>24.235                       | Frequency Stability                     | PASS   | Meet the requirement of limit.                                                   |
| 2.1049<br>24.238(b)                    | Occupied Bandwidth                      | PASS   | Meet the requirement of limit.                                                   |
| 24.238(b)                              | Band Edge Measurements                  | PASS   | Meet the requirement of limit.                                                   |
| 2.1051<br>24.238                       | Conducted Spurious Emissions            | PASS   | Meet the requirement of limit.                                                   |
| 2.1053<br>24.238                       | Radiated Spurious Emissions             | PASS   | Meet the requirement of limit.<br>Minimum passing margin is -11.45dB at 7520MHz. |

Note: 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 | 30MHz ~ 1GHz  | 4.8 dB                         |
| Radiated Emissions above 1 GHz | 1GHz ~ 6GHz   | 5.1 dB                         |
|                                | 6GHz ~ 18GHz  | 4.9 dB                         |
|                                | 18GHz ~ 40GHz | 5.2 dB                         |

## 2.2 Test Site and Instruments

For radiated spurious emissions test:

| DESCRIPTION & MANUFACTURER                          | MODEL NO.            | SERIAL NO.  | CALIBRATED DATE | CALIBRATED UNTIL |
|-----------------------------------------------------|----------------------|-------------|-----------------|------------------|
| Test Receiver<br>Keysight                           | N9038A               | MY54450088  | July 03, 2019   | July 02, 2020    |
| Pre-Amplifier<br>EMCI                               | EMC001340            | 980142      | Jan. 25, 2019   | Jan. 24, 2020    |
| Loop Antenna<br>Electro-Metrics                     | EM-6879              | 269         | Sep. 07, 2018   | Sep. 06, 2019    |
| RF Cable                                            | NA                   | LOOPCAB-001 | Jan. 14, 2019   | Jan. 13, 2020    |
| RF Cable                                            | NA                   | LOOPCAB-002 | Jan. 14, 2019   | Jan. 13, 2020    |
| Pre-Amplifier<br>Mini-Circuits                      | ZFL-1000VH2B         | AMP-ZFL-01  | Oct. 30, 2018   | Oct. 29, 2019    |
| Trilog Broadband Antenna<br>SCHWARZBECK             | VULB 9168            | 9168-406    | Nov. 22, 2018   | Nov. 21, 2019    |
| RF Cable                                            | 8D                   | 966-4-1     | Mar. 19, 2019   | Mar. 18, 2020    |
| RF Cable                                            | 8D                   | 966-4-2     | Mar. 19, 2019   | Mar. 18, 2020    |
| RF Cable                                            | 8D                   | 966-4-3     | Mar. 19, 2019   | Mar. 18, 2020    |
| Fixed attenuator<br>Mini-Circuits                   | UNAT-5+              | PAD-3m-4-01 | Sep. 27, 2018   | Sep. 26, 2019    |
| Horn_Antenna<br>SCHWARZBECK                         | BBHA 9120D           | 9120D-783   | Nov. 25, 2018   | Nov. 24, 2019    |
| Pre-Amplifier<br>EMCI                               | EMC12630SE           | 980385      | Aug. 16, 2018   | Aug. 15, 2019    |
| RF Cable                                            | EMC104-SM-SM-1200    | 160923      | Jan. 28, 2019   | Jan. 27, 2020    |
| RF Cable                                            | 104 RF cable         | 131215      | Jan. 10, 2019   | Jan. 09, 2020    |
| RF Cable                                            | EMC104-SM-SM-6000    | 180418      | May 03, 2019    | May 02, 2020     |
| Pre-Amplifier<br>EMCI                               | EMC184045SE          | 980387      | Jan. 28, 2019   | Jan. 27, 2020    |
| Horn_Antenna<br>SCHWARZBECK                         | BBHA 9170            | BBHA9170519 | Nov. 25, 2018   | Nov. 24, 2019    |
| RF Cable                                            | EMC102-KM-KM-1200    | 160924      | Jan. 28, 2019   | Jan. 27, 2020    |
| RF Cable                                            | EMC102-KM-KM-1200    | 160925      | Jan. 28, 2019   | Jan. 27, 2020    |
| Software                                            | ADT_Radiated_V8.7.08 | NA          | NA              | NA               |
| Boresight Antenna Tower &<br>Turn Table<br>Max-Full | MF-7802BS            | MF780208530 | 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 966 Chamber No. 4.
3. Loop antenna was used for all emissions below 30 MHz.
4. Tested Date: July 20 to 24, 2019

**For other test:**

| DESCRIPTION & MANUFACTURER                 | MODEL NO.                     | SERIAL NO.                            | CALIBRATED DATE | CALIBRATED UNTIL |
|--------------------------------------------|-------------------------------|---------------------------------------|-----------------|------------------|
| Spectrum Analyzer R&S                      | FSV40                         | 100964                                | June 04, 2019   | June 03, 2020    |
| Spectrum Analyzer Agilent                  | E4446A                        | MY48250253                            | Aug. 01, 2018   | July 31, 2019    |
| Power meter Anritsu                        | ML2495A                       | 1014008                               | May 13, 2019    | May 12, 2020     |
| Power sensor Anritsu                       | MA2411B                       | 0917122                               | May 13, 2019    | May 12, 2020     |
| Fixed Attenuator Mini-Circuits             | MDCS18N-10                    | MDCS18N-10-01                         | Apr. 15, 2019   | Apr. 14, 2020    |
| AC Power Source Extech Electronics         | 6205                          | 1440452                               | NA              | NA               |
| DC Power Supply Topward                    | 6603D                         | 795558                                | NA              | NA               |
| Temperature & Humidity Chamber Giant Force | GTH-150-40-SP-AR              | MAA0812-008                           | Jan. 09, 2019   | Jan. 08, 2020    |
| True RMS Clamp Meter FLUKE                 | 325                           | 31130711WS                            | May 21, 2019    | May 20, 2020     |
| ESG Vector signal generator Agilent        | E4438C                        | MY45094468/<br>005 506 602<br>UK6 UNJ | Nov. 19, 2018   | Nov. 18, 2019    |
| Mech Switch Absorptive Mini-Circuits       | MSP4TA-18+                    | 0140                                  | Feb. 11, 2019   | Feb. 10, 2020    |
| FXD ATTEN Mini-Circuits                    | BW-S3W2+                      | MN71981                               | Feb. 11, 2019   | Feb. 10, 2020    |
| Software                                   | ADT_RF Test Software V6.6.5.4 | NA                                    | NA              | NA               |

- NOTE:**
1. The test was performed in Oven room 2.
  2. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
  3. Tested Date: July 15 to 18, 2019



### 3 General Information

#### 3.1 General Description of EUT

|                     |                                                         |                                                   |
|---------------------|---------------------------------------------------------|---------------------------------------------------|
| Product             | Wireless router                                         |                                                   |
| Status of EUT       | ENGINEERING SAMPLE                                      |                                                   |
| Power Supply Rating | Refer to Note                                           |                                                   |
| Modulation Type     | WCDMA, HSDPA, HSUPA, DC-HSDPA                           | BPSK                                              |
|                     | LTE Band 2                                              | QPSK, 16QAM, 64QAM                                |
| Operating Frequency | WCDMA Band 2                                            | 1852.4MHz ~ 1907.6MHz                             |
|                     | LTE Band 2                                              | 1850.7MHz ~ 1909.3MHz                             |
| Max. EIRP Power     | WCDMA Band 2                                            | 21.47dBm                                          |
|                     | LTE Band 2<br>(Channel Bandwidth 1.4MHz)                | 20.62dBm                                          |
|                     | LTE Band 2<br>(Channel Bandwidth 3MHz)                  | 20.67dBm                                          |
|                     | LTE Band 2<br>(Channel Bandwidth 5MHz)                  | 20.62dBm                                          |
|                     | LTE Band 2<br>(Channel Bandwidth 10MHz)                 | 20.59dBm                                          |
|                     | LTE Band 2<br>(Channel Bandwidth 15MHz)                 | 20.72dBm                                          |
|                     | LTE Band 2<br>(Channel Bandwidth 20MHz)                 | 20.74dBm                                          |
|                     | WCDMA Band 2                                            | 4M13F9W                                           |
| Emission Designator | LTE Band 2<br>(Channel Bandwidth 1.4MHz)                | QPSK: 1M08G7D<br>16QAM: 1M09D7W<br>64QAW: 1M09D7W |
|                     | LTE Band 2<br>(Channel Bandwidth 3MHz)                  | QPSK: 2M70G7D<br>16QAM: 2M68D7W<br>64QAW: 2M70D7W |
|                     | LTE Band 2<br>(Channel Bandwidth 5MHz)                  | QPSK: 4M50G7D<br>16QAM: 4M51D7W<br>64QAW: 4M51D7W |
|                     | LTE Band 2<br>(Channel Bandwidth 10MHz)                 | QPSK: 9M00G7D<br>16QAM: 9M00D7W<br>64QAW: 9M00D7W |
|                     | LTE Band 2<br>(Channel Bandwidth 15MHz)                 | QPSK: 13M5G7D<br>16QAM: 13M5D7W<br>64QAW: 13M5D7W |
|                     | LTE Band 2<br>(Channel Bandwidth 20MHz)                 | QPSK: 18M0G7D<br>16QAM: 18M0D7W<br>64QAW: 18M0D7W |
|                     | WCDMA Band 2                                            | 4M13F9W                                           |
| Antenna Type        | Refer to Note                                           |                                                   |
| Antenna Connector   | Refer to Note                                           |                                                   |
| Accessory Device    | Cradle x1 (Option, Model: J03W039.02)<br>AC Adapter x 1 |                                                   |
| Data Cable Supplied | NA                                                      |                                                   |

Note:

1. Simultaneously transmission condition.

| Condition | Technology |      |
|-----------|------------|------|
| 1         | WLAN       | WWAN |

Note: The emission of the simultaneous operation has been evaluated and no non-compliance was found.

2. The EUT must be supplied one power adapter or Battery as the following table:

| Adapter     |               |                                                                                                                    |
|-------------|---------------|--------------------------------------------------------------------------------------------------------------------|
| Model No.   |               | Spec.                                                                                                              |
| SB-AC19TCPD |               | Input: 100-240V, 0.7A, 50/60Hz<br>Output: 5V/7V/9V/12V, 3.0A/3.0A/3.0A/2.25A<br>DC output cable (Unshielded, 1.6m) |
| Battery     |               |                                                                                                                    |
| Brand       | Model No.     | Spec.                                                                                                              |
| NA          | UBATIA301AFN2 | 3.85 Vdc, 4000mAh                                                                                                  |

3. The antennas provided to the EUT, please refer to the following table:

| Antenna No. | RF Chain No. | Antenna Net Gain(dBi)       | Frequency range (MHz)       | Antenna Type | Connector Type |
|-------------|--------------|-----------------------------|-----------------------------|--------------|----------------|
| 1           | Main         | Please refer to below table | Please refer to below table | PIFA         | NA             |
| 2           | Aux          | Please refer to below table | Please refer to below table | PIFA         | NA             |
| 3           | Aux / chain0 | Please refer to below table | Please refer to below table | PIFA         | NA             |
| 4           | Aux / chain1 | Please refer to below table | Please refer to below table | PIFA         | NA             |

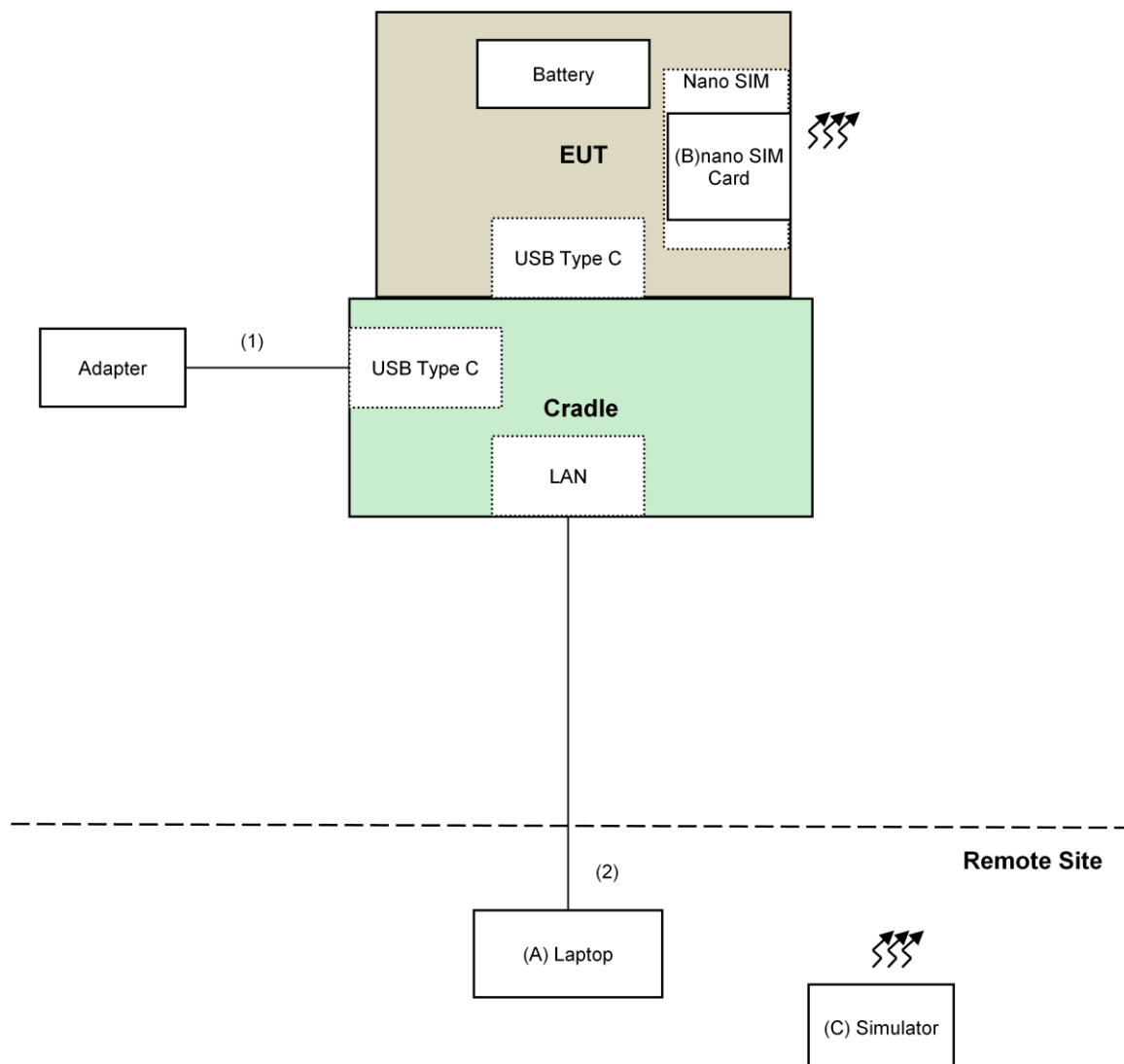
| Antenna gain list |                   |              |             |                      |                      |
|-------------------|-------------------|--------------|-------------|----------------------|----------------------|
| Band              | Freq. Range (MHz) | Gain (dBi)   |             |                      |                      |
|                   |                   | Ant 1 (Main) | Ant 2 (Aux) | Ant 3 (Aux / chain0) | Ant 4 (Aux / chain1) |
| WLAN 2.4GHz       | 2.4~2.4835        | NA           | NA          | -0.843               | -0.484               |
| WCDMA II (B2)     | 1850~1910         | -2.01        | -2.67       | -2.67                | -3.77                |
| WCDMA IV (B4)     | 1710~1755         | -2.63        | -3.67       | -3.67                | -3.67                |
| WCDMA V (B5)      | 824~849           | -2.21        | NA          | NA                   | NA                   |
| LTE Band (2)      | 1850~1910         | -2.01        | -2.67       | -2.67                | -3.77                |
| LTE Band (4)      | 1710~1755         | -2.63        | -3.67       | -3.67                | -3.67                |
| LTE Band (5)      | 824~849           | -2.21        | NA          | NA                   | NA                   |
| LTE Band (12)     | 698~716           | -6.05        | NA          | NA                   | NA                   |
| LTE Band (17)     | 704~716           | -6.05        | NA          | NA                   | NA                   |

4. For radiated emissions, the EUT was pre-tested under the following modes:

| Test Mode                                                                                                                                     | Description                                  |
|-----------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|
| Mode A                                                                                                                                        | Power from USB adapter (positioned: X-plane) |
| Mode B                                                                                                                                        | Power from USB adapter (positioned: Y-plane) |
| Mode C                                                                                                                                        | Power from USB adapter (positioned: Z-plane) |
| Mode D                                                                                                                                        | Power from Battery (positioned: Z-plane)     |
| <b>Mode E</b>                                                                                                                                 | <b>Power from Cradle</b>                     |
| Note: From the above modes, the worst case was found in <b>Mode E</b> . Therefore only the test data of the mode was recorded in this report. |                                              |

5. The above EUT information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or User's Manual.

### 3.2 Configuration of System under Test



### 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. | Laptop    | DELL    | E6420     | B92T3R1    | FCC DoC | Provided by Lab |
| B. | SIM Card  | NA      | NA        | NA         | NA      | Provided by Lab |
| C. | Simulator | Anritsu | MT8820C   | 6201127458 | NA      | Provided by Lab |

Note:

1. All power cords of the above support units are non-shielded (1.8m).

| ID | Descriptions | Qty. | Length (m) | Shielding (Yes/No) | Cores (Qty.) | Remarks            |
|----|--------------|------|------------|--------------------|--------------|--------------------|
| 1. | DC Cable     | 1    | 1.6        | No                 | 0            | Supplied by client |
| 2. | RJ-45 Cable  | 1    | 10         | No                 | 0            | Provided by Lab    |

### 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:

#### WCDMA Band 2

| Test Item                       | Available Channel | Tested Channel   | Mode  |
|---------------------------------|-------------------|------------------|-------|
| EIRP                            | 9262 to 9538      | 9262, 9400, 9538 | WCDMA |
| Frequency Stability             | 9262 to 9538      | 9400             | WCDMA |
| Occupied Bandwidth              | 9262 to 9538      | 9262, 9400, 9538 | WCDMA |
| Band Edge                       | 9262 to 9538      | 9262, 9538       | WCDMA |
| Peak to Average Ratio           | 9262 to 9538      | 9262, 9400, 9538 | WCDMA |
| Conducted Emission              | 9262 to 9538      | 9262, 9400, 9538 | WCDMA |
| Radiated Emission<br>Below 1GHz | 9262 to 9538      | 9262, 9400, 9538 | WCDMA |
| Radiated Emission<br>Above 1GHz | 9262 to 9538      | 9262, 9400, 9538 | WCDMA |

## LTE Band 2

| TEST ITEM             | AVAILABLE CHANNEL | TESTED CHANNEL      | CHANNEL BANDWIDTH | MODULATION       | MODE                 |
|-----------------------|-------------------|---------------------|-------------------|------------------|----------------------|
| EIRP                  | 18607 to 19193    | 18607, 18900 19193  | 1.4MHz            | QPSK/16QAM/64QAM | 1RB / 0 RB offset    |
|                       | 18615 to 19185    | 18615, 18900, 19185 | 3MHz              | QPSK/16QAM/64QAM | 1RB / 0 RB offset    |
|                       | 18625 to 19175    | 18625, 18900, 19175 | 5MHz              | QPSK/16QAM/64QAM | 1RB / 0 RB offset    |
|                       | 18650 to 19150    | 18650, 18900, 19150 | 10MHz             | QPSK/16QAM/64QAM | 1RB / 0 RB offset    |
|                       | 18675 to 19125    | 18675, 18900, 19125 | 15MHz             | QPSK/16QAM/64QAM | 1RB / 0 RB offset    |
|                       | 18700 to 19100    | 18700, 18900, 19100 | 20MHz             | QPSK/16QAM/64QAM | 1RB / 0 RB offset    |
|                       | 18607 to 19193    | 18607, 18900 19193  | 1.4MHz            | QPSK/16QAM/64QAM | Full RB              |
| Frequency Stability   | 18607 to 19193    | 18900               | 1.4MHz            | QPSK             | -                    |
|                       | 18615 to 19185    | 18900               | 3MHz              | QPSK             | -                    |
|                       | 18625 to 19175    | 18900               | 5MHz              | QPSK             | -                    |
|                       | 18650 to 19150    | 18900               | 10MHz             | QPSK             | -                    |
|                       | 18675 to 19125    | 18900               | 15MHz             | QPSK             | -                    |
|                       | 18700 to 19100    | 18900               | 20MHz             | QPSK             | -                    |
|                       | 18607 to 19193    | 18607, 18900 19193  | 1.4MHz            | QPSK             | -                    |
| Occupied Bandwidth    | 18607 to 19193    | 18607, 18900 19193  | 1.4MHz            | QPSK/16QAM/64QAM | Full RB              |
|                       | 18615 to 19185    | 18615, 18900, 19185 | 3MHz              | QPSK/16QAM/64QAM | Full RB              |
|                       | 18625 to 19175    | 18625, 18900, 19175 | 5MHz              | QPSK/16QAM/64QAM | Full RB              |
|                       | 18650 to 19150    | 18650, 18900, 19150 | 10MHz             | QPSK/16QAM/64QAM | Full RB              |
|                       | 18675 to 19125    | 18675, 18900, 19125 | 15MHz             | QPSK/16QAM/64QAM | Full RB              |
|                       | 18700 to 19100    | 18700, 18900, 19100 | 20MHz             | QPSK/16QAM/64QAM | Full RB              |
|                       | 18607 to 19193    | 18607, 18900 19193  | 1.4MHz            | QPSK/16QAM/64QAM | Full RB              |
| Peak to Average Ratio | 18607 to 19193    | 18607, 18900 19193  | 1.4MHz            | QPSK/16QAM/64QAM | Full RB              |
|                       | 18615 to 19185    | 18615, 18900, 19185 | 3MHz              | QPSK/16QAM/64QAM | Full RB              |
|                       | 18625 to 19175    | 18625, 18900, 19175 | 5MHz              | QPSK/16QAM/64QAM | Full RB              |
|                       | 18650 to 19150    | 18650, 18900, 19150 | 10MHz             | QPSK/16QAM/64QAM | Full RB              |
|                       | 18675 to 19125    | 18675, 18900, 19125 | 15MHz             | QPSK/16QAM/64QAM | Full RB              |
|                       | 18700 to 19100    | 18700, 18900, 19100 | 20MHz             | QPSK/16QAM/64QAM | Full RB              |
|                       | 18607 to 19193    | 18607, 18900 19193  | 1.4MHz            | QPSK/16QAM/64QAM | Full RB              |
| Band Edge             | 18607 to 19193    | 18607               | 1.4MHz            | QPSK             | 1 RB / 0 RB Offset   |
|                       |                   | 19193               |                   |                  | 1 RB / 5 RB Offset   |
|                       |                   | 18607, 19193        |                   |                  | 6 RB / 0 RB Offset   |
|                       | 18615 to 19185    | 18615               | 3MHz              | QPSK             | 1 RB / 0 RB Offset   |
|                       |                   | 19185               |                   |                  | 1 RB / 14 RB Offset  |
|                       |                   | 18615, 19185        |                   |                  | 15 RB / 0 RB Offset  |
|                       | 18625 to 19175    | 18625,              | 5MHz              | QPSK             | 1 RB / 0 RB Offset   |
|                       |                   | 19175               |                   |                  | 1 RB / 24 RB Offset  |
|                       |                   | 18625, 19175        |                   |                  | 25 RB / 0 RB Offset  |
|                       | 18650 to 19150    | 18650               | 10MHz             | QPSK             | 1 RB / 0 RB Offset   |
|                       |                   | 19150               |                   |                  | 1 RB / 49 RB Offset  |
|                       |                   | 18650, 19150        |                   |                  | 50 RB / 0 RB Offset  |
|                       | 18675 to 19125    | 18675,              | 15MHz             | QPSK             | 1 RB / 0 RB Offset   |
|                       |                   | 19125               |                   |                  | 1 RB / 74 RB Offset  |
|                       |                   | 18675, 19125        |                   |                  | 75 RB / 0 RB Offset  |
|                       | 18700 to 19100    | 18700.              | 20MHz             | QPSK             | 1 RB / 0 RB Offset   |
|                       |                   | 19100               |                   |                  | 1 RB / 99 RB Offset  |
|                       |                   | 18700. 19100        |                   |                  | 100 RB / 0 RB Offset |
| Conducted Emission    | 18607 to 19193    | 18607, 18900 19193  | 1.4MHz            | QPSK             | 1 RB / 0 RB Offset   |
|                       | 18615 to 19185    | 18615, 18900, 19185 | 3MHz              | QPSK             | 1 RB / 0 RB Offset   |
|                       | 18625 to 19175    | 18625, 18900, 19175 | 5MHz              | QPSK             | 1 RB / 0 RB Offset   |
|                       | 18650 to 19150    | 18650, 18900, 19150 | 10MHz             | QPSK             | 1 RB / 0 RB Offset   |
|                       | 18675 to 19125    | 18675, 18900, 19125 | 15MHz             | QPSK             | 1 RB / 0 RB Offset   |
|                       | 18700 to 19100    | 18700, 18900, 19100 | 20MHz             | QPSK             | 1 RB / 0 RB Offset   |
|                       | 18607 to 19193    | 18607, 18900 19193  | 1.4MHz            | QPSK             | 1 RB / 0 RB Offset   |
| Radiated Emission     | 18607 to 19193    | 18607, 18900 19193  | 1.4MHz            | QPSK             | 1 RB / 0 RB Offset   |
|                       | 18615 to 19185    | 18615, 18900, 19185 | 3MHz              | QPSK             | 1 RB / 0 RB Offset   |
|                       | 18625 to 19175    | 18625, 18900, 19175 | 5MHz              | QPSK             | 1 RB / 0 RB Offset   |
|                       | 18650 to 19150    | 18650, 18900, 19150 | 10MHz             | QPSK             | 1 RB / 0 RB Offset   |
|                       | 18675 to 19125    | 18675, 18900, 19125 | 15MHz             | QPSK             | 1 RB / 0 RB Offset   |
|                       | 18700 to 19100    | 18700, 18900, 19100 | 20MHz             | QPSK             | 1 RB / 0 RB Offset   |
|                       | 18607 to 19193    | 18607, 18900 19193  | 1.4MHz            | QPSK             | 1 RB / 0 RB Offset   |

**NOTE:**

All supported modulation types were evaluated. The Worst case of QPSK was selected. Therefore, the Band Edge, Frequency Stability, Conducted Emission and Radiated Emission were presented under QPSK mode only.

**Test Condition:**

| Test Item                       | Environmental Conditions | Input Power (System) | Tested By    |
|---------------------------------|--------------------------|----------------------|--------------|
| EIRP                            | 25deg. C, 63%RH          | 120Vac, 60Hz         | Jyunchun Lin |
| Frequency Stability             | 25deg. C, 63%RH          | 120Vac, 60Hz         | Jyunchun Lin |
| Occupied Bandwidth              | 25deg. C, 63%RH          | 120Vac, 60Hz         | Jyunchun Lin |
| Band Edge                       | 25deg. C, 63%RH          | 120Vac, 60Hz         | Jyunchun Lin |
| Peak to Average Ratio           | 25deg. C, 63%RH          | 120Vac, 60Hz         | Jyunchun Lin |
| Conducted Emission              | 25deg. C, 63%RH          | 120Vac, 60Hz         | Jyunchun Lin |
| Radiated Emission<br>Below 1GHz | 25deg. C, 75%RH          | 120Vac, 60Hz         | Robert Cheng |
| Radiated Emission<br>Above 1GHz | 25deg. C, 75%RH          | 120Vac, 60Hz         | Robert Cheng |

### 3.4 EUT Operating Conditions

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**

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

**FCC 47 CFR Part 2**

**FCC 47 CFR Part 24 Subpart E**

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

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

**ANSI 63.26-2015**

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

## 4 Test Types and Results

### 4.1 Output Power Measurement

#### 4.1.1 Limits of Output Power Measurement

Mobile / Portable station are limited to 2 watts e.i.r.p.

#### 4.1.2 Test Procedures

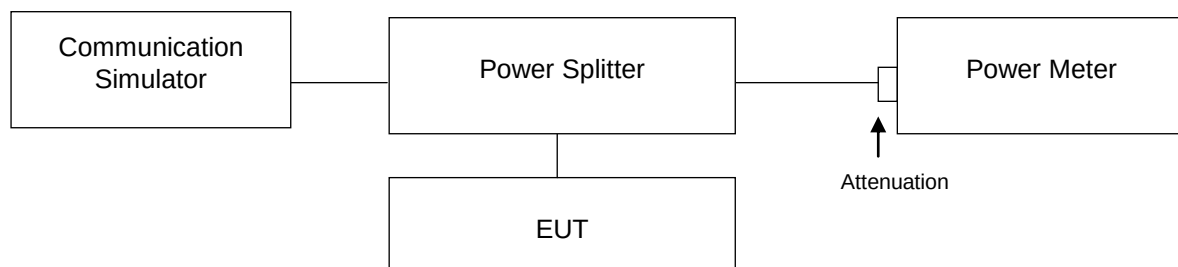
##### Conducted Power Measurement:

The EUT was set up for the maximum power with WCDMA/LTE link data modulation and link up with simulator. Set the EUT to transmit under low, middle and high channel and difference RB size/ RB offset for difference bandwidth record the power level shown on power meter.

##### EIRP Measurement:

- a.  $EIRP = \text{Conducted Output power level} + \text{Antenna gain.}$

#### 4.1.3 Test Setup



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

#### 4.1.4 Test Results

##### CONDUCTED OUTPUT POWER (dBm)

| Band               | WCDMA B2 |        |        |
|--------------------|----------|--------|--------|
| Channel            | 9262     | 9400   | 9538   |
| Frequency (MHz)    | 1852.4   | 1880.0 | 1907.6 |
| RMC                | 23.40    | 23.48  | 23.25  |
| HSDPA Subtest-1    | 22.36    | 22.38  | 22.24  |
| HSDPA Subtest-2    | 22.32    | 22.44  | 22.28  |
| HSDPA Subtest-3    | 21.85    | 22.00  | 21.80  |
| HSDPA Subtest-4    | 21.92    | 22.00  | 21.90  |
| DC-HSDPA Subtest-1 | 22.25    | 22.29  | 22.20  |
| DC-HSDPA Subtest-2 | 22.21    | 22.25  | 22.18  |
| DC-HSDPA Subtest-3 | 21.77    | 21.88  | 21.76  |
| DC-HSDPA Subtest-4 | 21.80    | 21.93  | 21.81  |
| HSUPA Subtest-1    | 22.36    | 22.48  | 22.31  |
| HSUPA Subtest-2    | 20.41    | 20.45  | 20.32  |
| HSUPA Subtest-3    | 21.33    | 21.45  | 21.33  |
| HSUPA Subtest-4    | 20.31    | 20.43  | 20.31  |
| HSUPA Subtest-5    | 22.30    | 22.40  | 22.30  |

## LTE Band 2

| Band / BW | RB Size | RB Offset | QPSK   |        |         | 3GPP MPR (dB) | 16QAM  |        |         | 3GPP MPR (dB) | 64QAM  |        |         | 3GPP MPR (dB) |
|-----------|---------|-----------|--------|--------|---------|---------------|--------|--------|---------|---------------|--------|--------|---------|---------------|
|           |         |           | Low CH | Mid CH | High CH |               | Low CH | Mid CH | High CH |               | Low CH | Mid CH | High CH |               |
|           |         |           | 18607  | 18900  | 19193   |               | 18607  | 18900  | 19193   |               | 18607  | 18900  | 19193   |               |
|           |         |           | 1850.7 | 1880   | 1909.3  |               | 1850.7 | 1880   | 1909.3  |               | 1850.7 | 1880   | 1909.3  |               |
|           |         |           | MHz    | MHz    | MHz     |               | MHz    | MHz    | MHz     |               | MHz    | MHz    | MHz     |               |
| 2 / 1.4M  | 1       | 0         | 22.63  | 22.54  | 22.57   | 0             | 21.00  | 20.91  | 20.80   | 1             | 19.93  | 19.90  | 19.93   | 2             |
|           | 1       | 2         | 22.61  | 22.60  | 22.47   | 0             | 20.86  | 20.94  | 20.91   | 1             | 20.01  | 19.83  | 19.86   | 2             |
|           | 1       | 5         | 22.53  | 22.46  | 22.35   | 0             | 20.82  | 20.81  | 20.81   | 1             | 19.94  | 19.99  | 19.76   | 2             |
|           | 3       | 0         | 22.58  | 22.50  | 22.55   | 0             | 21.83  | 21.93  | 21.89   | 1             | 20.97  | 20.86  | 20.84   | 2             |
|           | 3       | 1         | 22.56  | 22.52  | 22.43   | 0             | 21.86  | 21.74  | 21.67   | 1             | 20.83  | 20.81  | 20.71   | 2             |
|           | 3       | 3         | 22.41  | 22.48  | 22.52   | 0             | 21.87  | 21.81  | 21.63   | 1             | 20.86  | 20.61  | 20.56   | 2             |
|           | 6       | 0         | 21.70  | 21.58  | 21.47   | 1             | 20.80  | 20.80  | 20.72   | 2             | 19.93  | 19.83  | 19.84   | 3             |

| Band / BW | RB Size | RB Offset | QPSK   |        |         | 3GPP MPR (dB) | 16QAM  |        |         | 3GPP MPR (dB) | 64QAM  |        |         | 3GPP MPR (dB) |
|-----------|---------|-----------|--------|--------|---------|---------------|--------|--------|---------|---------------|--------|--------|---------|---------------|
|           |         |           | Low CH | Mid CH | High CH |               | Low CH | Mid CH | High CH |               | Low CH | Mid CH | High CH |               |
|           |         |           | 18615  | 18900  | 19185   |               | 18615  | 18900  | 19185   |               | 18615  | 18900  | 19185   |               |
|           |         |           | 1851.5 | 1880   | 1908.5  |               | 1851.5 | 1880   | 1908.5  |               | 1851.5 | 1880   | 1908.5  |               |
|           |         |           | MHz    | MHz    | MHz     |               | MHz    | MHz    | MHz     |               | MHz    | MHz    | MHz     |               |
| 2 / 3M    | 1       | 0         | 22.68  | 22.48  | 22.49   | 0             | 21.01  | 20.84  | 20.84   | 1             | 19.96  | 19.86  | 19.94   | 2             |
|           | 1       | 7         | 22.47  | 22.61  | 22.55   | 0             | 20.88  | 20.90  | 20.78   | 1             | 19.91  | 19.85  | 19.76   | 2             |
|           | 1       | 14        | 22.46  | 22.48  | 22.45   | 0             | 20.85  | 20.95  | 20.84   | 1             | 20.00  | 19.93  | 19.85   | 2             |
|           | 8       | 0         | 21.61  | 21.59  | 21.52   | 1             | 20.90  | 20.88  | 20.71   | 2             | 19.76  | 19.83  | 19.70   | 3             |
|           | 8       | 3         | 21.54  | 21.44  | 21.42   | 1             | 20.86  | 20.74  | 20.75   | 2             | 19.75  | 19.71  | 19.80   | 3             |
|           | 8       | 7         | 21.57  | 21.51  | 21.38   | 1             | 20.87  | 20.76  | 20.69   | 2             | 19.82  | 19.65  | 19.61   | 3             |
|           | 15      | 0         | 21.49  | 21.50  | 21.54   | 1             | 20.77  | 20.85  | 20.76   | 2             | 19.96  | 19.79  | 19.76   | 3             |

| Band / BW | RB Size | RB Offset | QPSK   |        |         | 3GPP MPR (dB) | 16QAM  |        |         | 3GPP MPR (dB) | 64QAM  |        |         | 3GPP MPR (dB) |
|-----------|---------|-----------|--------|--------|---------|---------------|--------|--------|---------|---------------|--------|--------|---------|---------------|
|           |         |           | Low CH | Mid CH | High CH |               | Low CH | Mid CH | High CH |               | Low CH | Mid CH | High CH |               |
|           |         |           | 18625  | 18900  | 19175   |               | 18625  | 18900  | 19175   |               | 18625  | 18900  | 19175   |               |
|           |         |           | 1852.5 | 1880   | 1907.5  |               | 1852.5 | 1880   | 1907.5  |               | 1852.5 | 1880   | 1907.5  |               |
|           |         |           | MHz    | MHz    | MHz     |               | MHz    | MHz    | MHz     |               | MHz    | MHz    | MHz     |               |
| 2 / 5M    | 1       | 0         | 22.63  | 22.62  | 22.49   | 0             | 20.95  | 20.80  | 20.99   | 1             | 19.97  | 19.84  | 19.87   | 2             |
|           | 1       | 12        | 22.48  | 22.59  | 22.39   | 0             | 20.84  | 20.93  | 20.77   | 1             | 19.90  | 19.96  | 19.76   | 2             |
|           | 1       | 24        | 22.55  | 22.51  | 22.24   | 0             | 20.87  | 20.80  | 20.81   | 1             | 19.94  | 19.94  | 19.85   | 2             |
|           | 12      | 0         | 21.66  | 21.52  | 21.31   | 1             | 20.88  | 20.91  | 20.70   | 2             | 19.84  | 19.87  | 19.81   | 3             |
|           | 12      | 6         | 21.60  | 21.46  | 21.37   | 1             | 20.82  | 20.80  | 20.73   | 2             | 19.87  | 19.90  | 19.79   | 3             |
|           | 12      | 13        | 21.63  | 21.45  | 21.29   | 1             | 20.85  | 20.78  | 20.67   | 2             | 19.80  | 19.78  | 19.76   | 3             |
|           | 25      | 0         | 21.54  | 21.61  | 21.33   | 1             | 20.86  | 20.83  | 20.82   | 2             | 19.86  | 19.93  | 19.87   | 3             |

| Band / BW | RB Size | RB Offset | QPSK   |        |         | 3GPP MPR (dB) | 16QAM  |        |         | 3GPP MPR (dB) | 64QAM  |        |         | 3GPP MPR (dB) |
|-----------|---------|-----------|--------|--------|---------|---------------|--------|--------|---------|---------------|--------|--------|---------|---------------|
|           |         |           | Low CH | Mid CH | High CH |               | Low CH | Mid CH | High CH |               | Low CH | Mid CH | High CH |               |
|           |         |           | 18650  | 18900  | 19150   |               | 18650  | 18900  | 19150   |               | 18650  | 18900  | 19150   |               |
|           |         |           | 1855   | 1880   | 1905    |               | 1855   | 1880   | 1905    |               | 1855   | 1880   | 1905    |               |
|           |         |           | MHz    | MHz    | MHz     |               | MHz    | MHz    | MHz     |               | MHz    | MHz    | MHz     |               |
| 2 / 10M   | 1       | 0         | 22.60  | 22.55  | 22.52   | 0             | 20.98  | 20.83  | 20.86   | 1             | 20.01  | 19.97  | 19.97   | 2             |
|           | 1       | 24        | 22.54  | 22.55  | 22.52   | 0             | 20.92  | 20.89  | 20.86   | 1             | 20.02  | 19.81  | 19.78   | 2             |
|           | 1       | 49        | 22.50  | 22.47  | 22.44   | 0             | 20.97  | 20.88  | 20.89   | 1             | 19.94  | 19.87  | 19.80   | 2             |
|           | 25      | 0         | 21.52  | 21.54  | 21.44   | 1             | 20.90  | 20.96  | 20.78   | 2             | 19.92  | 19.73  | 19.80   | 3             |
|           | 25      | 12        | 21.48  | 21.38  | 21.37   | 1             | 20.81  | 20.69  | 20.74   | 2             | 19.85  | 19.82  | 19.63   | 3             |
|           | 25      | 25        | 21.47  | 21.50  | 21.43   | 1             | 20.86  | 20.79  | 20.58   | 2             | 19.86  | 19.66  | 19.68   | 3             |
|           | 50      | 0         | 21.68  | 21.58  | 21.49   | 1             | 20.86  | 20.86  | 20.76   | 2             | 19.95  | 19.82  | 19.75   | 3             |

| Band / BW | RB Size | RB Offset | QPSK   |        |         | 3GPP MPR (dB) | 16QAM  |        |         | 3GPP MPR (dB) | 64QAM  |        |         | 3GPP MPR (dB) |
|-----------|---------|-----------|--------|--------|---------|---------------|--------|--------|---------|---------------|--------|--------|---------|---------------|
|           |         |           | Low CH | Mid CH | High CH |               | Low CH | Mid CH | High CH |               | Low CH | Mid CH | High CH |               |
|           |         |           | 18675  | 18900  | 19125   |               | 18675  | 18900  | 19125   |               | 18675  | 18900  | 19125   |               |
|           |         |           | 1857.5 | 1880   | 1902.5  |               | 1857.5 | 1880   | 1902.5  |               | 1857.5 | 1880   | 1902.5  |               |
|           |         |           | MHz    | MHz    | MHz     |               | MHz    | MHz    | MHz     |               | MHz    | MHz    | MHz     |               |
| 2 / 15M   | 1       | 0         | 22.73  | 22.68  | 22.59   | 0             | 21.01  | 20.96  | 20.96   | 1             | 20.05  | 20.00  | 20.02   | 2             |
|           | 1       | 37        | 22.63  | 22.64  | 22.55   | 0             | 21.02  | 21.00  | 20.93   | 1             | 19.99  | 20.00  | 19.91   | 2             |
|           | 1       | 74        | 22.66  | 22.52  | 22.48   | 0             | 20.94  | 20.91  | 20.91   | 1             | 19.96  | 19.96  | 19.87   | 2             |
|           | 36      | 0         | 21.66  | 21.65  | 21.51   | 1             | 20.95  | 20.90  | 20.81   | 2             | 19.91  | 19.93  | 19.81   | 3             |
|           | 36      | 19        | 21.57  | 21.57  | 21.47   | 1             | 20.92  | 20.81  | 20.81   | 2             | 19.88  | 19.92  | 19.83   | 3             |
|           | 36      | 39        | 21.59  | 21.59  | 21.51   | 1             | 20.87  | 20.86  | 20.77   | 2             | 19.95  | 19.81  | 19.73   | 3             |
|           | 75      | 0         | 21.64  | 21.65  | 21.59   | 1             | 20.97  | 20.85  | 20.85   | 2             | 20.00  | 19.87  | 19.82   | 3             |

| Band / BW | RB Size | RB Offset | QPSK   |        |         | 3GPP MPR (dB) | 16QAM  |        |         | 3GPP MPR (dB) | 64QAM  |        |         | 3GPP MPR (dB) |
|-----------|---------|-----------|--------|--------|---------|---------------|--------|--------|---------|---------------|--------|--------|---------|---------------|
|           |         |           | Low CH | Mid CH | High CH |               | Low CH | Mid CH | High CH |               | Low CH | Mid CH | High CH |               |
|           |         |           | 18700  | 18900  | 19100   |               | 18700  | 18900  | 19100   |               | 18700  | 18900  | 19100   |               |
|           |         |           | 1860   | 1880   | 1900    |               | 1860   | 1880   | 1900    |               | 1860   | 1880   | 1900    |               |
|           |         |           | MHz    | MHz    | MHz     |               | MHz    | MHz    | MHz     |               | MHz    | MHz    | MHz     |               |
| 2 / 20M   | 1       | 0         | 22.75  | 22.70  | 22.68   | 0             | 21.07  | 21.03  | 21.00   | 1             | 20.11  | 20.06  | 20.05   | 2             |
|           | 1       | 50        | 22.71  | 22.68  | 22.62   | 0             | 21.02  | 21.00  | 20.95   | 1             | 20.08  | 20.01  | 19.97   | 2             |
|           | 1       | 99        | 22.67  | 22.61  | 22.55   | 0             | 21.02  | 21.01  | 20.97   | 1             | 20.05  | 20.01  | 19.95   | 2             |
|           | 50      | 0         | 21.70  | 21.66  | 21.61   | 1             | 21.00  | 21.00  | 20.90   | 2             | 20.00  | 19.95  | 19.90   | 3             |
|           | 50      | 25        | 21.65  | 21.61  | 21.55   | 1             | 20.97  | 20.90  | 20.82   | 2             | 19.95  | 19.92  | 19.88   | 3             |
|           | 50      | 50        | 21.65  | 21.61  | 21.56   | 1             | 20.95  | 20.88  | 20.77   | 2             | 19.95  | 19.83  | 19.80   | 3             |
|           | 100     | 0         | 21.70  | 21.67  | 21.61   | 1             | 20.98  | 20.92  | 20.90   | 2             | 20.00  | 19.95  | 19.90   | 3             |

**EIRP POWER**

| Band                 | WCDMA B2 |       |        |
|----------------------|----------|-------|--------|
| Channel              | 9262     | 9400  | 9538   |
| Frequency (MHz)      | 1852.4   | 1880  | 1907.6 |
| RMC 12.2K            | 23.40    | 23.48 | 23.25  |
| Gain (dBi)           | -2.01    | -2.01 | -2.01  |
| Max EIRP Power (dBm) | 21.39    | 21.47 | 21.24  |

## LTE Band 2

| Band / BW            | RB Size | RB Offset | QPSK   |        |         | 3GPP MPR (dB) | 16QAM  |        |         | 3GPP MPR (dB) | 64QAM  |        |         | 3GPP MPR (dB) |
|----------------------|---------|-----------|--------|--------|---------|---------------|--------|--------|---------|---------------|--------|--------|---------|---------------|
|                      |         |           | Low CH | Mid CH | High CH |               | Low CH | Mid CH | High CH |               | Low CH | Mid CH | High CH |               |
|                      |         |           | 18607  | 18900  | 19193   |               | 18607  | 18900  | 19193   |               | 18607  | 18900  | 19193   |               |
|                      |         |           | 1850.7 | 1880   | 1909.3  |               | 1850.7 | 1880   | 1909.3  |               | 1850.7 | 1880   | 1909.3  |               |
| 2 / 1.4M             | 1       | 0         | 22.63  | 22.54  | 22.57   | 0             | 21.00  | 20.91  | 20.80   | 1             | 19.93  | 19.90  | 19.93   | 2             |
| Gain (dBi)           |         |           | -2.01  | -2.01  | -2.01   |               | -2.01  | -2.01  | -2.01   |               | -2.01  | -2.01  | -2.01   |               |
| Max EIRP Power (dBm) |         |           | 20.62  | 20.53  | 20.56   |               | 18.99  | 18.90  | 18.79   |               | 17.92  | 17.89  | 17.92   |               |

| Band / BW            | RB Size | RB Offset | QPSK   |        |         | 3GPP MPR (dB) | 16QAM  |        |         | 3GPP MPR (dB) | 64QAM  |        |         | 3GPP MPR (dB) |
|----------------------|---------|-----------|--------|--------|---------|---------------|--------|--------|---------|---------------|--------|--------|---------|---------------|
|                      |         |           | Low CH | Mid CH | High CH |               | Low CH | Mid CH | High CH |               | Low CH | Mid CH | High CH |               |
|                      |         |           | 18615  | 18900  | 19185   |               | 18615  | 18900  | 19185   |               | 18615  | 18900  | 19185   |               |
|                      |         |           | 1851.5 | 1880   | 1908.5  |               | 1851.5 | 1880   | 1908.5  |               | 1851.5 | 1880   | 1908.5  |               |
| 2 / 3M               | 1       | 0         | 22.68  | 22.48  | 22.49   | 0             | 21.01  | 20.84  | 20.84   | 1             | 19.96  | 19.86  | 19.94   | 2             |
| Gain (dBi)           |         |           | -2.01  | -2.01  | -2.01   |               | -2.01  | -2.01  | -2.01   |               | -2.01  | -2.01  | -2.01   |               |
| Max EIRP Power (dBm) |         |           | 20.67  | 20.47  | 20.48   |               | 19.00  | 18.83  | 18.83   |               | 17.95  | 17.85  | 17.93   |               |

| Band / BW            | RB Size | RB Offset | QPSK   |        |         | 3GPP MPR (dB) | 16QAM  |        |         | 3GPP MPR (dB) | 64QAM  |        |         | 3GPP MPR (dB) |
|----------------------|---------|-----------|--------|--------|---------|---------------|--------|--------|---------|---------------|--------|--------|---------|---------------|
|                      |         |           | Low CH | Mid CH | High CH |               | Low CH | Mid CH | High CH |               | Low CH | Mid CH | High CH |               |
|                      |         |           | 18625  | 18900  | 19175   |               | 18625  | 18900  | 19175   |               | 18625  | 18900  | 19175   |               |
|                      |         |           | 1852.5 | 1880   | 1907.5  |               | 1852.5 | 1880   | 1907.5  |               | 1852.5 | 1880   | 1907.5  |               |
| 2 / 5M               | 1       | 0         | 22.63  | 22.62  | 22.49   | 0             | 20.95  | 20.80  | 20.99   | 1             | 19.97  | 19.84  | 19.87   | 2             |
| Gain (dBi)           |         |           | -2.01  | -2.01  | -2.01   |               | -2.01  | -2.01  | -2.01   |               | -2.01  | -2.01  | -2.01   |               |
| Max EIRP Power (dBm) |         |           | 20.62  | 20.61  | 20.48   |               | 18.94  | 18.79  | 18.98   |               | 17.96  | 17.83  | 17.86   |               |

| Band / BW            | RB Size | RB Offset | QPSK   |        |         | 3GPP MPR (dB) | 16QAM  |        |         | 3GPP MPR (dB) | 64QAM  |        |         | 3GPP MPR (dB) |
|----------------------|---------|-----------|--------|--------|---------|---------------|--------|--------|---------|---------------|--------|--------|---------|---------------|
|                      |         |           | Low CH | Mid CH | High CH |               | Low CH | Mid CH | High CH |               | Low CH | Mid CH | High CH |               |
|                      |         |           | 18650  | 18900  | 19150   |               | 20000  | 20175  | 20350   |               | 20000  | 20175  | 20350   |               |
|                      |         |           | 1855   | 1880   | 1905    |               | 1715   | 1732.5 | 1750    |               | 1715   | 1732.5 | 1750    |               |
| 2 / 10M              | 1       | 0         | 22.60  | 22.55  | 22.52   | 0             | 20.98  | 20.83  | 20.86   | 1             | 20.01  | 19.97  | 19.97   | 2             |
| Gain (dBi)           |         |           | -2.01  | -2.01  | -2.01   |               | -2.01  | -2.01  | -2.01   |               | -2.01  | -2.01  | -2.01   |               |
| Max EIRP Power (dBm) |         |           | 20.59  | 20.54  | 20.51   |               | 18.97  | 18.82  | 18.85   |               | 18.00  | 17.96  | 17.96   |               |

| Band /<br>BW         | RB<br>Size | RB<br>Offset | QPSK      |           |            | 3GPP<br>MPR<br>(dB) | 16QAM     |           |            | 3GPP<br>MPR<br>(dB) | 64QAM     |           |            | 3GPP<br>MPR<br>(dB) |
|----------------------|------------|--------------|-----------|-----------|------------|---------------------|-----------|-----------|------------|---------------------|-----------|-----------|------------|---------------------|
|                      |            |              | Low<br>CH | Mid<br>CH | High<br>CH |                     | Low<br>CH | Mid<br>CH | High<br>CH |                     | Low<br>CH | Mid<br>CH | High<br>CH |                     |
|                      |            |              | 18675     | 18900     | 19125      |                     | 18675     | 18900     | 19125      |                     | 18675     | 18900     | 19125      |                     |
|                      |            |              | 1857.5    | 1880      | 1902.5     |                     | 1857.5    | 1880      | 1902.5     |                     | 1857.5    | 1880      | 1902.5     |                     |
|                      |            |              | MHz       | MHz       | MHz        |                     | MHz       | MHz       | MHz        |                     | MHz       | MHz       | MHz        |                     |
| 2 / 15M              | 1          | 0            | 22.73     | 22.68     | 22.59      | 0                   | 21.01     | 20.96     | 20.96      | 1                   | 20.05     | 20.00     | 20.02      | 2                   |
| Gain (dBi)           |            |              | -2.01     | -2.01     | -2.01      |                     | -2.01     | -2.01     | -2.01      |                     | -2.01     | -2.01     | -2.01      |                     |
| Max EIRP Power (dBm) |            |              | 20.72     | 20.67     | 20.58      |                     | 19.00     | 18.95     | 18.95      |                     | 18.04     | 17.99     | 18.01      |                     |

| Band /<br>BW         | RB<br>Size | RB<br>Offset | QPSK      |           |            | 3GPP<br>MPR<br>(dB) | 16QAM     |           |            | 3GPP<br>MPR<br>(dB) | 64QAM     |           |            | 3GPP<br>MPR<br>(dB) |
|----------------------|------------|--------------|-----------|-----------|------------|---------------------|-----------|-----------|------------|---------------------|-----------|-----------|------------|---------------------|
|                      |            |              | Low<br>CH | Mid<br>CH | High<br>CH |                     | Low<br>CH | Mid<br>CH | High<br>CH |                     | Low<br>CH | Mid<br>CH | High<br>CH |                     |
|                      |            |              | 18700     | 18900     | 19100      |                     | 18700     | 18900     | 19100      |                     | 18700     | 18900     | 19100      |                     |
|                      |            |              | 1860      | 1880      | 1900       |                     | 1860      | 1880      | 1900       |                     | 1860      | 1880      | 1900       |                     |
|                      |            |              | MHz       | MHz       | MHz        |                     | MHz       | MHz       | MHz        |                     | MHz       | MHz       | MHz        |                     |
| 2 / 20M              | 1          | 0            | 22.75     | 22.70     | 22.68      | 0                   | 21.07     | 21.03     | 21.00      | 1                   | 20.11     | 20.06     | 20.05      | 2                   |
| Gain (dBi)           |            |              | -2.01     | -2.01     | -2.01      |                     | -2.01     | -2.01     | -2.01      |                     | -2.01     | -2.01     | -2.01      |                     |
| Max EIRP Power (dBm) |            |              | 20.74     | 20.69     | 20.67      |                     | 19.06     | 19.02     | 18.99      |                     | 18.10     | 18.05     | 18.04      |                     |



## 4.2 Modulation characteristics Measurement

### 4.2.1 Limits of Modulation characteristics

N/A

### 4.2.2 Test Procedure

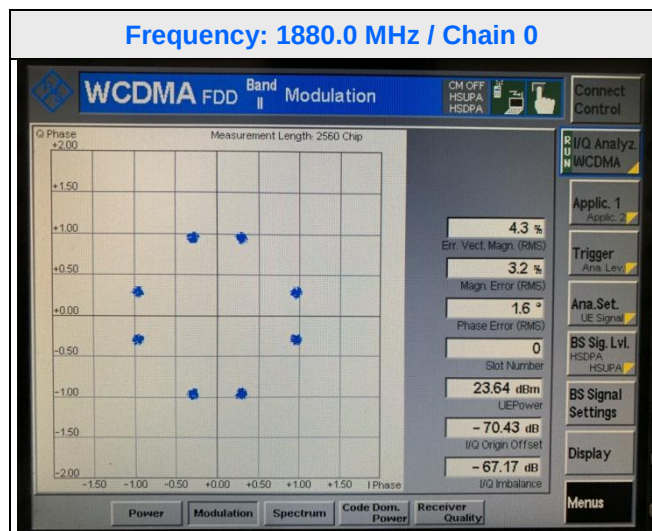
Connect the EUT to Communication Simulator via the antenna connector, the frequency band is set as EUT supported Modulation and Channels, the EUT output is matched with 50 ohm load, the waveform quality and constellation of the EUT was tested.

### 4.2.3 Test Setup

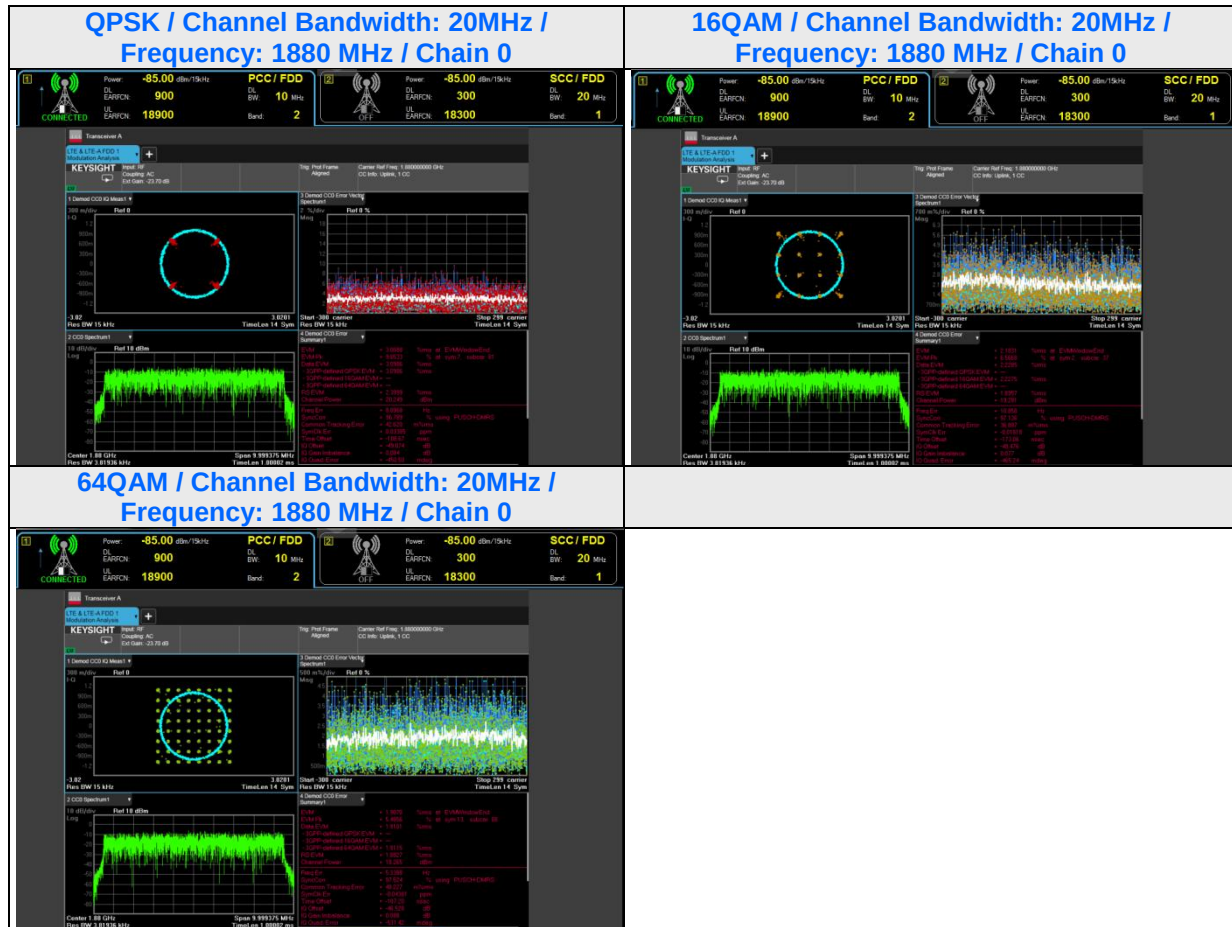


#### 4.2.4 Test Results

##### WCDMA B2



## LTE Band 2



### 4.3 Frequency Stability Measurement

#### 4.3.1 Limits of Frequency Stability Measurement

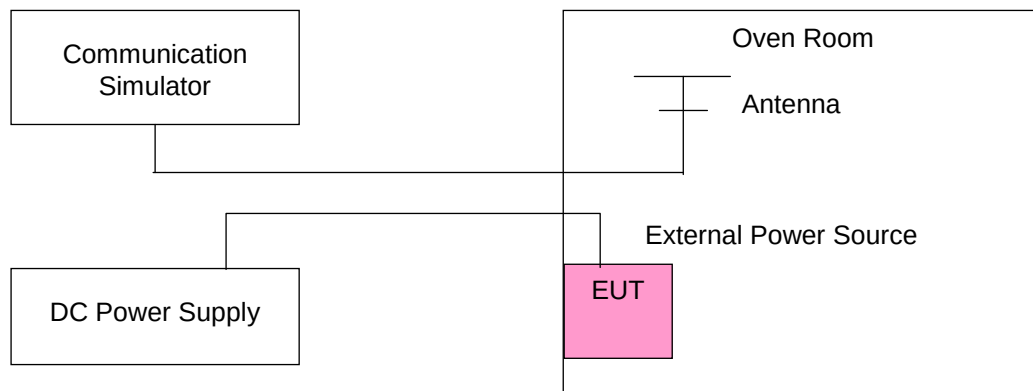
The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

#### 4.3.2 Test Procedure

- Device is placed at the oven room. The oven room could control the temperatures and humidity. Power warm up is at least 15 min and power applied should perform before recording frequency error.
- EUT is connected the external power supply to control the DC input power. The test voltage range is from minimum to maximum working voltage. Each step shall be record the frequency error rate.
- The temperature range step is 10 degrees in this test items. All temperature levels shall be hold the  $\pm 0.5$  °C during the measurement testing. The each temperature step shall be at least 0.5 hours, consider the EUT could be test under the stability condition.

**NOTE:** The frequency error was recorded frequency error from the communication simulator.

#### 4.3.3 Test Setup



#### 4.3.4 Test Results

##### WCDMA

##### Frequency Error vs. Voltage

| Voltage (Volts) | Frequency Error (MHz) |         | Limit (MHz) |           |
|-----------------|-----------------------|---------|-------------|-----------|
|                 | WCDMA B2              |         | Low Edge    | High Edge |
|                 | Low                   | High    |             |           |
| 2.805           | 1850.41               | 1909.74 | 1850        | 1910      |
| 3.795           | 1850.26               | 1909.66 | 1850        | 1910      |

##### Frequency Error vs. Temperature.

| TEMP. (°C) | Frequency Error (MHz) |         | Limit (MHz) |           |
|------------|-----------------------|---------|-------------|-----------|
|            | WCDMA B2              |         | Low Edge    | High Edge |
|            | Low                   | High    |             |           |
| 50         | 1850.40               | 1909.69 | 1850        | 1910      |
| 40         | 1850.41               | 1909.68 | 1850        | 1910      |
| 30         | 1850.25               | 1909.69 | 1850        | 1910      |
| 20         | 1850.33               | 1909.69 | 1850        | 1910      |
| 10         | 1850.33               | 1909.69 | 1850        | 1910      |
| 0          | 1850.38               | 1909.68 | 1850        | 1910      |
| -10        | 1850.42               | 1909.68 | 1850        | 1910      |
| -20        | 1850.37               | 1909.68 | 1850        | 1910      |
| -30        | 1850.25               | 1909.68 | 1850        | 1910      |

## LTE Band 2

### Frequency Error vs. Voltage

| Voltage<br>(Volts) | Frequency Error (MHz) |         |         |         |         |         |         |         |         |         |         |         | Limit (MHz) |              |
|--------------------|-----------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|-------------|--------------|
|                    | 1.4MHz                |         | 3MHz    |         | 5MHz    |         | 10MHz   |         | 15MHz   |         | 20MHz   |         |             |              |
|                    | Low                   | High    | Low     | High    | Low     | High    | Low     | High    | Low     | High    | Low     | High    | Low<br>Edge | High<br>Edge |
| 2.805              | 1850.13               | 1909.89 | 1850.06 | 1909.83 | 1852.55 | 1907.44 | 1850.48 | 1909.45 | 1850.80 | 1909.31 | 1850.94 | 1908.98 | 1850        | 1910         |
| 3.795              | 1850.07               | 1909.83 | 1850.07 | 1909.85 | 1852.59 | 1907.56 | 1850.60 | 1909.50 | 1850.87 | 1909.23 | 1851.11 | 1908.88 | 1850        | 1910         |

### Frequency Error vs. Temperature

| Temp.<br>(°C) | Frequency Error (MHz) |         |         |         |         |         |         |         |         |         |         |         | Limit (MHz) |           |
|---------------|-----------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|-------------|-----------|
|               | 1.4MHz                |         | 3MHz    |         | 5MHz    |         | 10MHz   |         | 15MHz   |         | 20MHz   |         |             |           |
|               | Low                   | High    | Low     | High    | Low     | High    | Low     | High    | Low     | High    | Low     | High    | Low Edge    | High Edge |
| 50            | 1850.14               | 1909.75 | 1850.20 | 1909.84 | 1852.58 | 1907.53 | 1850.44 | 1909.54 | 1850.84 | 1909.23 | 1850.96 | 1908.98 | 1850        | 1910      |
| 40            | 1850.25               | 1909.81 | 1850.22 | 1909.78 | 1852.47 | 1907.53 | 1850.53 | 1909.45 | 1850.72 | 1909.29 | 1850.94 | 1909.00 | 1850        | 1910      |
| 30            | 1850.23               | 1909.85 | 1850.09 | 1909.77 | 1852.48 | 1907.40 | 1850.61 | 1909.55 | 1850.76 | 1909.26 | 1851.07 | 1908.94 | 1850        | 1910      |
| 20            | 1850.13               | 1909.89 | 1850.24 | 1909.82 | 1852.47 | 1907.49 | 1850.58 | 1909.57 | 1850.82 | 1909.16 | 1851.00 | 1909.01 | 1850        | 1910      |
| 10            | 1850.11               | 1909.82 | 1850.13 | 1909.91 | 1852.53 | 1907.51 | 1850.54 | 1909.52 | 1850.77 | 1909.14 | 1851.03 | 1908.92 | 1850        | 1910      |
| 0             | 1850.17               | 1909.93 | 1850.13 | 1909.84 | 1852.53 | 1907.55 | 1850.56 | 1909.46 | 1850.76 | 1909.23 | 1851.11 | 1909.03 | 1850        | 1910      |
| -10           | 1850.10               | 1909.89 | 1850.20 | 1909.82 | 1852.59 | 1907.57 | 1850.47 | 1909.52 | 1850.87 | 1909.15 | 1851.05 | 1908.91 | 1850        | 1910      |
| -20           | 1850.14               | 1909.90 | 1850.24 | 1909.91 | 1852.52 | 1907.48 | 1850.60 | 1909.40 | 1850.79 | 1909.23 | 1851.10 | 1908.95 | 1850        | 1910      |
| -30           | 1850.25               | 1909.84 | 1850.12 | 1909.89 | 1852.45 | 1907.44 | 1850.61 | 1909.55 | 1850.85 | 1909.15 | 1850.95 | 1909.00 | 1850        | 1910      |

## 4.4 Occupied Bandwidth Measurement

### 4.4.1 Test Procedure

All measurements were done at low, middle and high operational frequency range. The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency. The bandwidth of the fundamental frequency was measured by spectrum analyzer with  $RBW \geq 1\% \times OBW$  and  $VBW \geq 3 \times VBW$ .

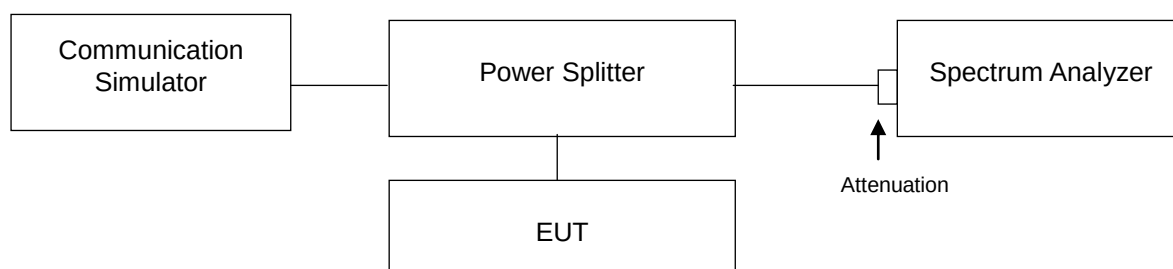
#### Occupied Bandwidth Measurement:

Use OBW measurement function of Spectrum analyzer to measure 99 % occupied bandwidth.

#### 26 dB Bandwidth Measurement:

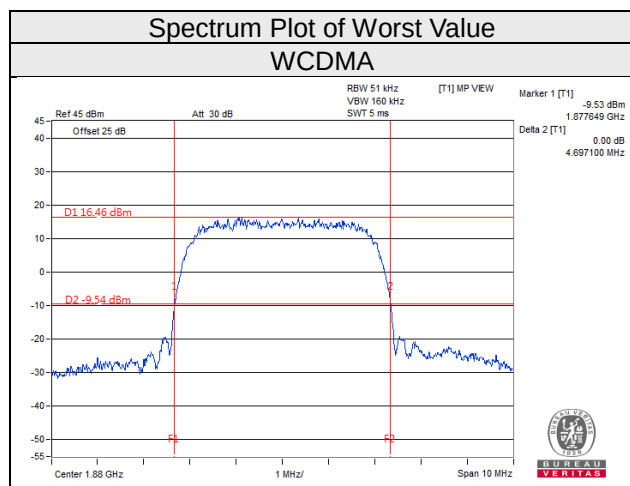
The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emission are attenuated at least 26dB below the transmitter power.

### 4.4.2 Test Setup



#### 4.4.3 Test Result (-26dB Bandwidth)

| Channel | Freq. (MHz) | -26dB Bandwidth (MHz) |
|---------|-------------|-----------------------|
|         |             | WCDMA B2              |
| 9262    | 1852.4      | 4.66                  |
| 9400    | 1880.0      | 4.69                  |
| 9538    | 1907.6      | 4.68                  |

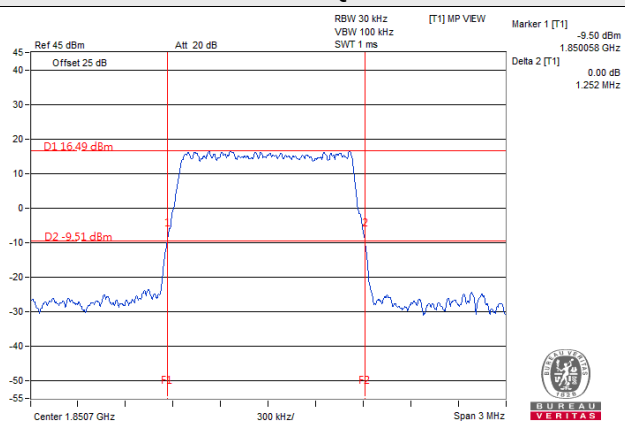




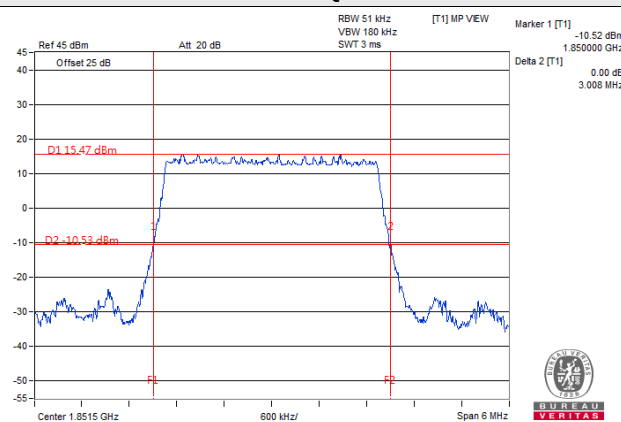
| LTE Band 2               |                 |                       |       |       |                         |                 |                       |       |       |
|--------------------------|-----------------|-----------------------|-------|-------|-------------------------|-----------------|-----------------------|-------|-------|
| Channel Bandwidth 1.4MHz |                 |                       |       |       | Channel Bandwidth 3MHz  |                 |                       |       |       |
| Channel                  | Frequency (MHz) | -26dB Bandwidth (MHz) |       |       | Channel                 | Frequency (MHz) | -26dB Bandwidth (MHz) |       |       |
|                          |                 | QPSK                  | 16QAM | 64QAM |                         |                 | QPSK                  | 16QAM | 64QAM |
| 18607                    | 1850.7          | 1.25                  | 1.23  | 1.24  | 18615                   | 1851.5          | 3.00                  | 2.98  | 2.96  |
| 18900                    | 1880            | 1.24                  | 1.23  | 1.25  | 18900                   | 1880            | 2.99                  | 2.96  | 2.96  |
| 19193                    | 1909.3          | 1.22                  | 1.24  | 1.24  | 19185                   | 1908.5          | 3.00                  | 2.96  | 2.97  |
| Channel Bandwidth 5MHz   |                 |                       |       |       | Channel Bandwidth 10MHz |                 |                       |       |       |
| Channel                  | Frequency (MHz) | -26dB Bandwidth (MHz) |       |       | Channel                 | Frequency (MHz) | -26dB Bandwidth (MHz) |       |       |
|                          |                 | QPSK                  | 16QAM | 64QAM |                         |                 | QPSK                  | 16QAM | 64QAM |
| 18625                    | 1852.5          | 4.95                  | 4.95  | 4.89  | 18650                   | 1855            | 9.84                  | 9.81  | 9.80  |
| 18900                    | 1880            | 4.96                  | 4.93  | 4.93  | 18900                   | 1880            | 9.77                  | 9.82  | 9.80  |
| 19175                    | 1907.5          | 4.91                  | 4.95  | 4.92  | 19150                   | 1905            | 9.81                  | 9.78  | 9.78  |
| Channel Bandwidth 15MHz  |                 |                       |       |       | Channel Bandwidth 20MHz |                 |                       |       |       |
| Channel                  | Frequency (MHz) | -26dB Bandwidth (MHz) |       |       | Channel                 | Frequency (MHz) | -26dB Bandwidth (MHz) |       |       |
|                          |                 | QPSK                  | 16QAM | 64QAM |                         |                 | QPSK                  | 16QAM | 64QAM |
| 18675                    | 1857.5          | 14.71                 | 14.69 | 14.69 | 18700                   | 1860            | 19.66                 | 19.59 | 19.60 |
| 18900                    | 1880            | 14.64                 | 14.64 | 14.60 | 18900                   | 1880            | 19.38                 | 19.39 | 19.49 |
| 19125                    | 1902.5          | 14.69                 | 14.64 | 14.67 | 19100                   | 1900            | 19.43                 | 19.48 | 19.48 |

## Spectrum Plot of Worst Value

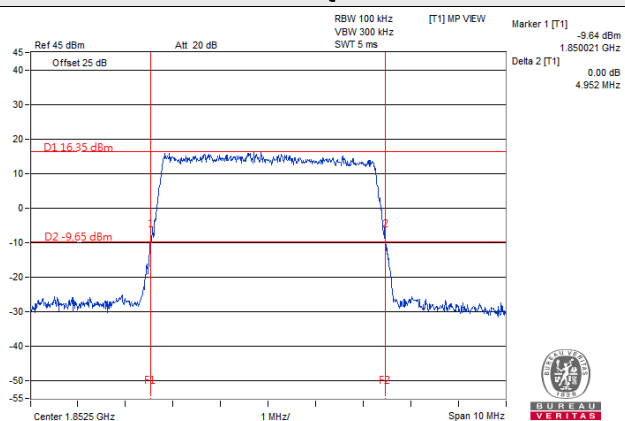
### 1.4MHz / QPSK



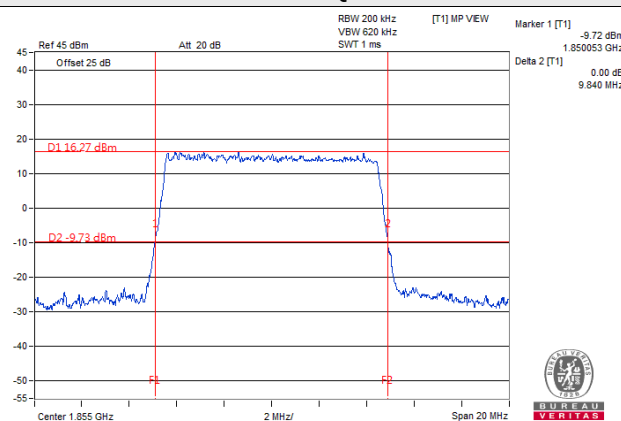
### 3MHz / QPSK



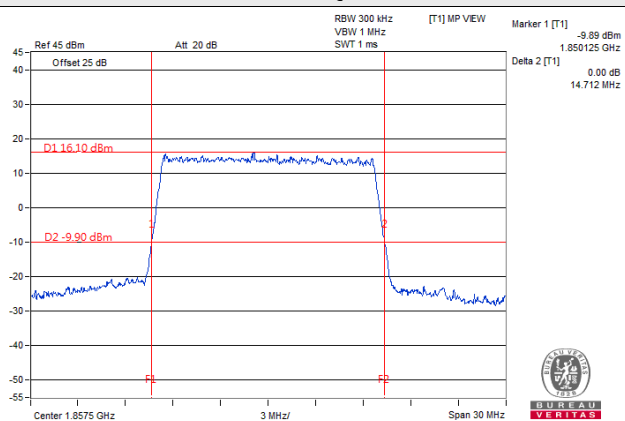
### 5MHz / QPSK



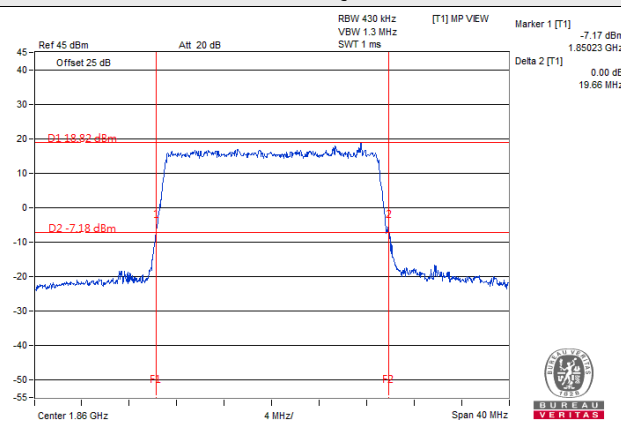
### 10MHz / QPSK



### 15MHz / QPSK

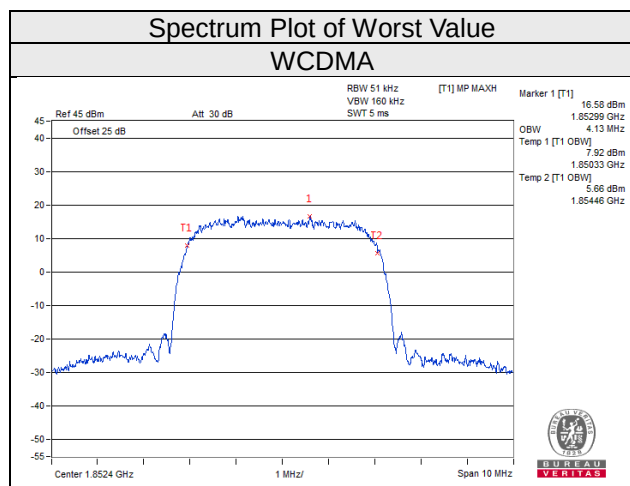


### 20MHz / QPSK



#### 4.4.4 Test Result (Occupied Bandwidth)

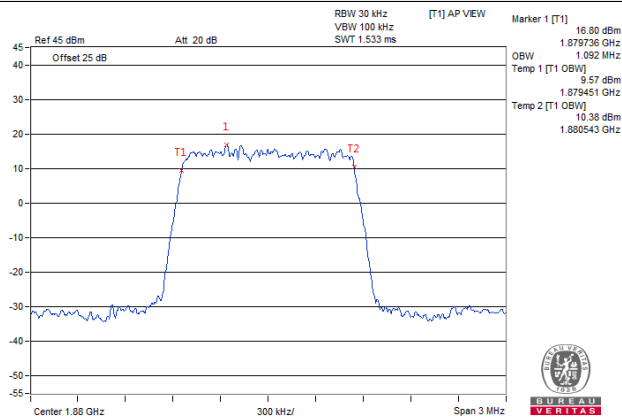
| Channel | Freq. (MHz) | 99% Occupied Bandwidth (MHz) |
|---------|-------------|------------------------------|
|         |             | WCDMA B2                     |
| 9262    | 1852.4      | 4.13                         |
| 9400    | 1880.0      | 4.12                         |
| 9538    | 1907.6      | 4.13                         |



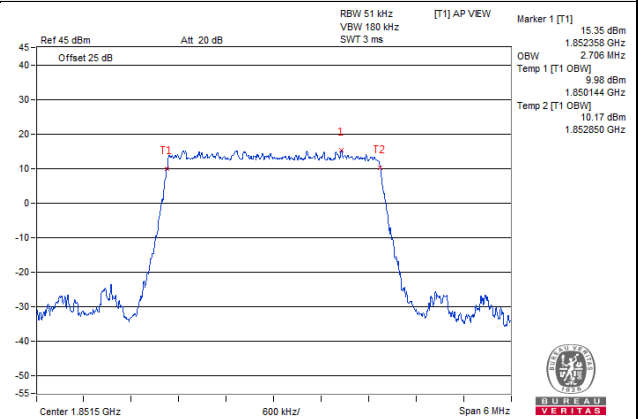
| LTE Band 2               |                 |                              |       |       |                         |                 |                              |       |       |
|--------------------------|-----------------|------------------------------|-------|-------|-------------------------|-----------------|------------------------------|-------|-------|
| Channel Bandwidth 1.4MHz |                 |                              |       |       | Channel Bandwidth 3MHz  |                 |                              |       |       |
| Channel                  | Frequency (MHz) | 99% Occupied Bandwidth (MHz) |       |       | Channel                 | Frequency (MHz) | 99% Occupied Bandwidth (MHz) |       |       |
|                          |                 | QPSK                         | 16QAM | 64QAM |                         |                 | QPSK                         | 16QAM | 64QAM |
| 18607                    | 1850.7          | 1.08                         | 1.08  | 1.09  | 18615                   | 1851.5          | 2.70                         | 2.68  | 2.70  |
| 18900                    | 1880            | 1.08                         | 1.09  | 1.08  | 18900                   | 1880            | 2.70                         | 2.68  | 2.70  |
| 19193                    | 1909.3          | 1.08                         | 1.08  | 1.08  | 19185                   | 1907.5          | 2.70                         | 2.68  | 2.69  |
| Channel Bandwidth 5MHz   |                 |                              |       |       | Channel Bandwidth 10MHz |                 |                              |       |       |
| Channel                  | Frequency (MHz) | 99% Occupied Bandwidth (MHz) |       |       | Channel                 | Frequency (MHz) | 99% Occupied Bandwidth (MHz) |       |       |
|                          |                 | QPSK                         | 16QAM | 64QAM |                         |                 | QPSK                         | 16QAM | 64QAM |
| 18625                    | 1852.5          | 4.50                         | 4.51  | 4.51  | 18650                   | 1855            | 9.00                         | 9.00  | 9.00  |
| 18900                    | 1880            | 4.50                         | 4.51  | 4.50  | 18900                   | 1880            | 8.98                         | 8.98  | 8.96  |
| 19175                    | 1907.5          | 4.50                         | 4.49  | 4.49  | 19150                   | 1905            | 8.98                         | 8.98  | 8.98  |
| Channel Bandwidth 15MHz  |                 |                              |       |       | Channel Bandwidth 20MHz |                 |                              |       |       |
| Channel                  | Frequency (MHz) | 99% Occupied Bandwidth (MHz) |       |       | Channel                 | Frequency (MHz) | 99% Occupied Bandwidth (MHz) |       |       |
|                          |                 | QPSK                         | 16QAM | 64QAM |                         |                 | QPSK                         | 16QAM | 64QAM |
| 18675                    | 1857.5          | 13.50                        | 13.53 | 13.50 | 18700                   | 1860            | 18.00                        | 17.96 | 18.00 |
| 18900                    | 1880            | 13.44                        | 13.44 | 13.47 | 18900                   | 1880            | 17.92                        | 17.84 | 17.92 |
| 19125                    | 1902.5          | 13.44                        | 13.44 | 13.41 | 19100                   | 1900            | 18.00                        | 17.92 | 17.92 |

## Spectrum Plot of Worst Value

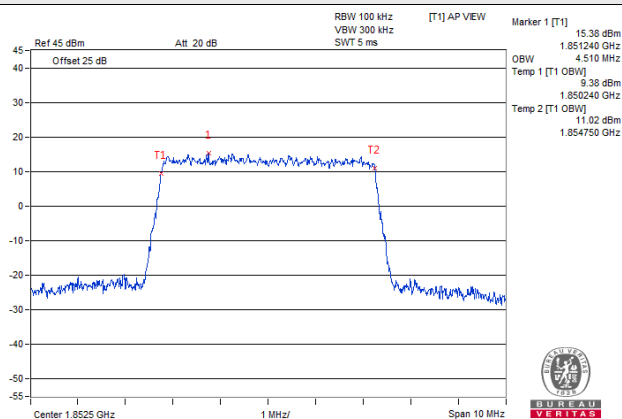
### 1.4MHz / 16QAM



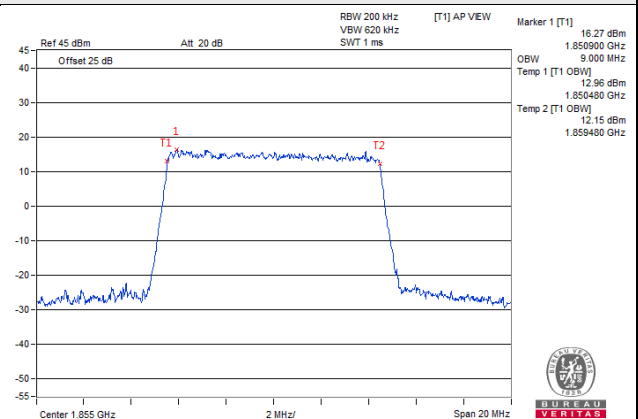
### 3MHz / QPSK



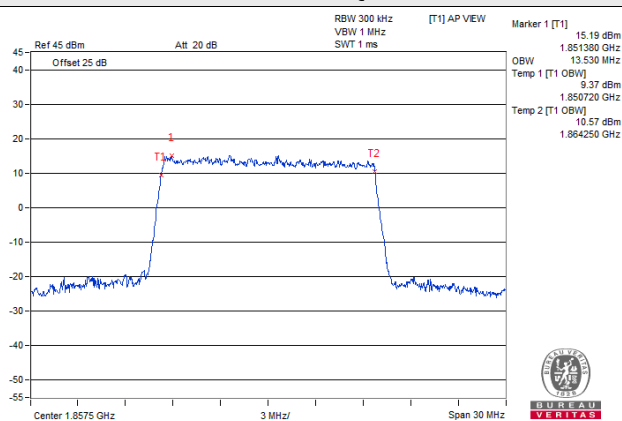
### 5MHz / 16QAM



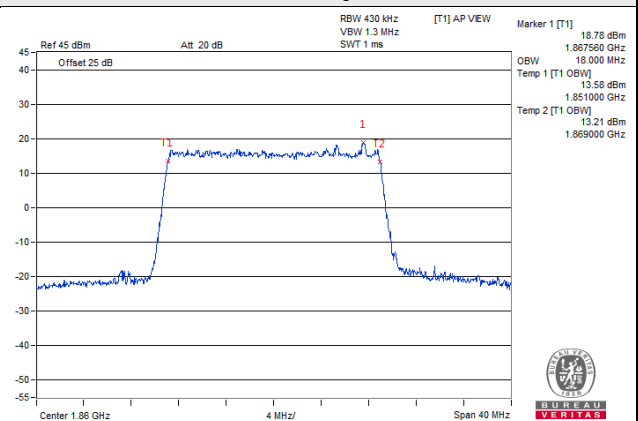
### 10MHz / QPSK



### 15MHz / 16QAM



### 20MHz / QPSK

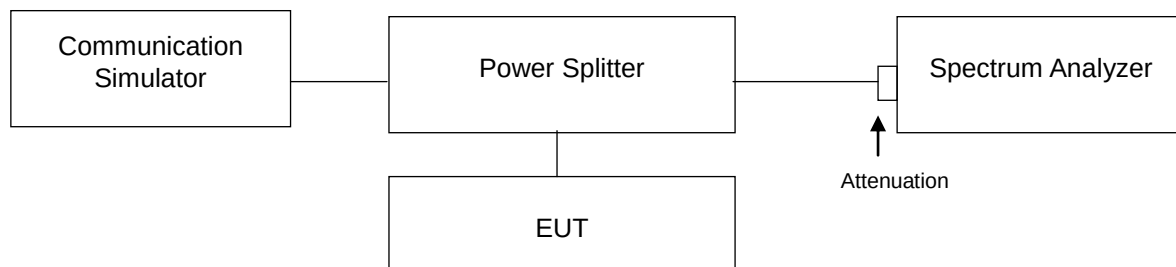


## 4.5 Band Edge Measurement

### 4.5.1 Limits of Band Edge Measurement

Power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least  $43 + 10 \log(P)$  dB. In the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

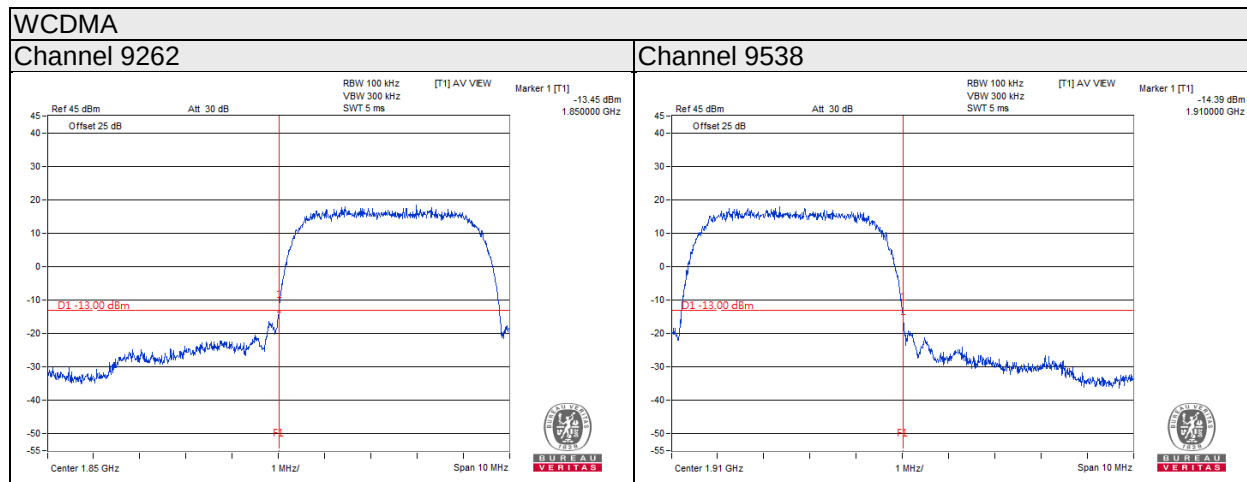
### 4.5.2 Test Setup



### 4.5.3 Test Procedures

- All measurements were done at low and high operational frequency range.
- The center frequency of spectrum is the band edge frequency and RB of the spectrum is  $>1\%$  emission bandwidth and VB of the spectrum is  $\geq 3 \cdot RB$ .
- Record the max trace plot into the test report.

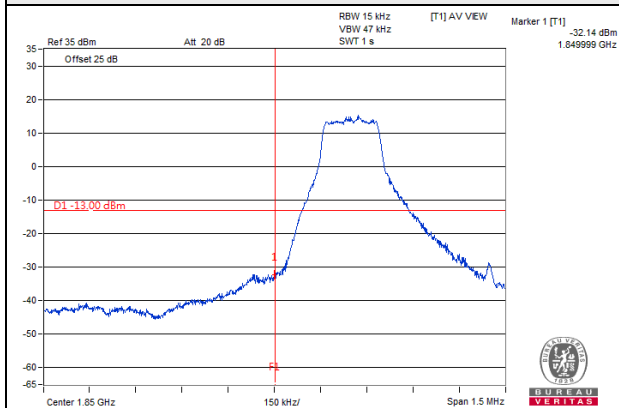
#### 4.5.4 Test Results



# LTE Band 2 Channel Band width: 1.4MHz

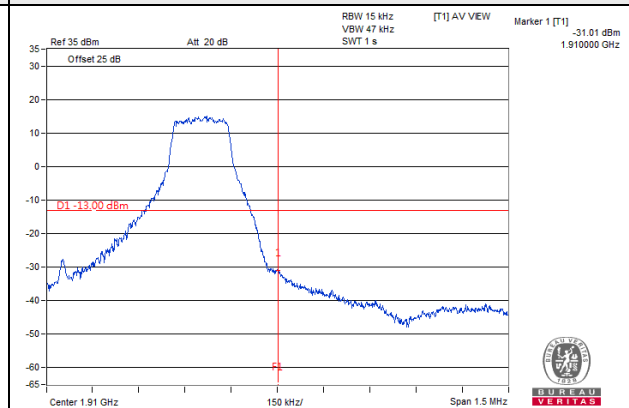
## Channel 18607

### 1 RB

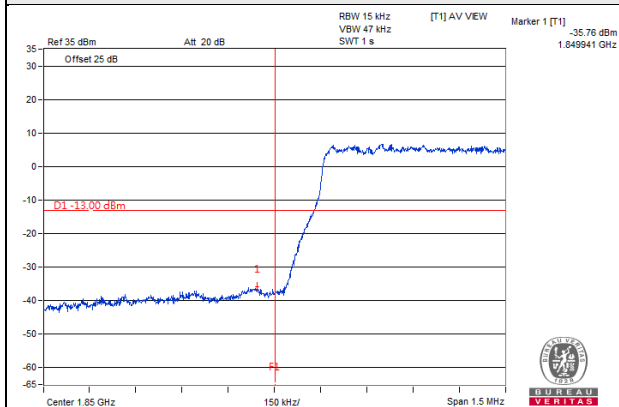


## Channel 19193

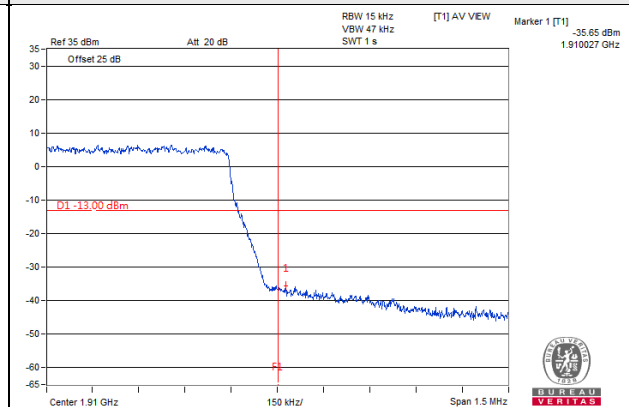
### 1 RB



### 6 RB



### 6 RB

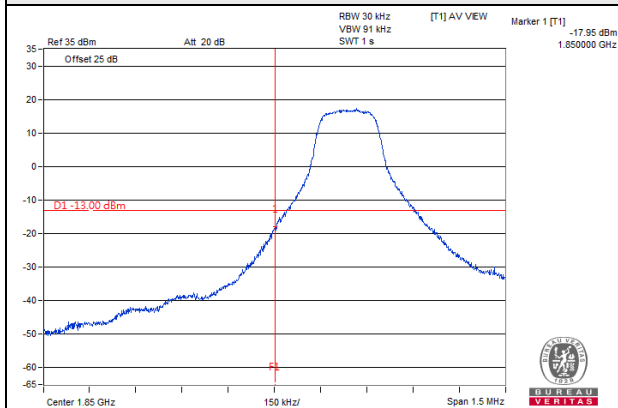




# LTE Band 2 Channel Band width: 3MHz

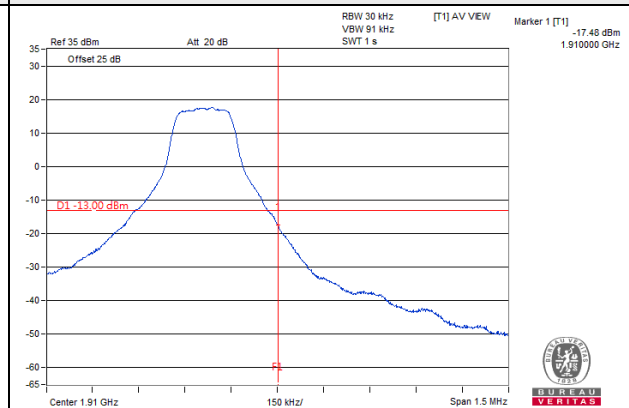
## Channel 18615

### 1 RB

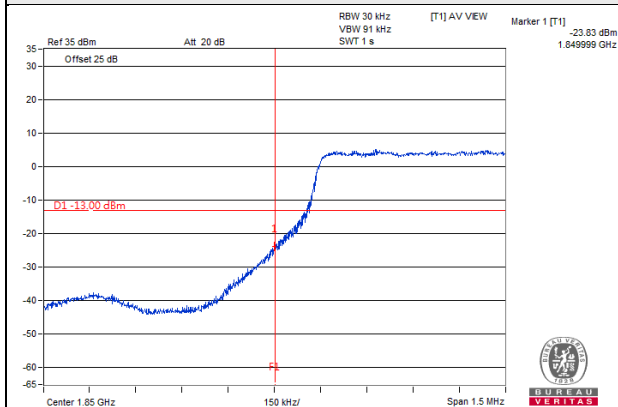


## Channel 19185

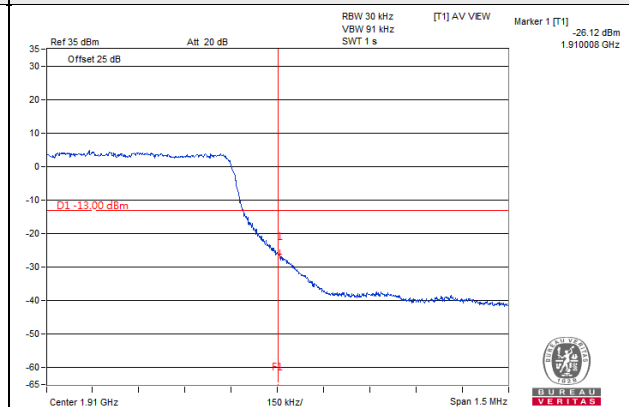
### 1 RB



### 15 RB



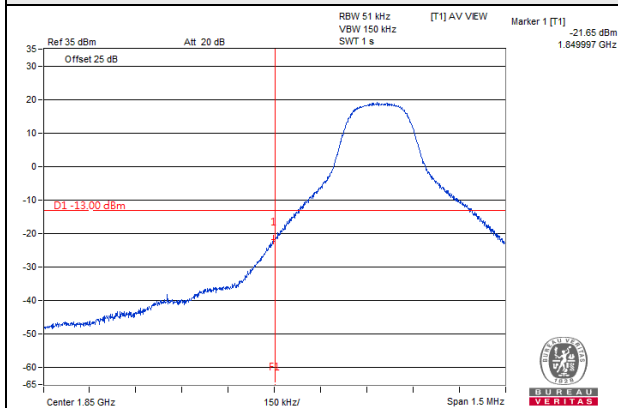
### 15 RB



# LTE Band 2 Channel Band width: 5MHz

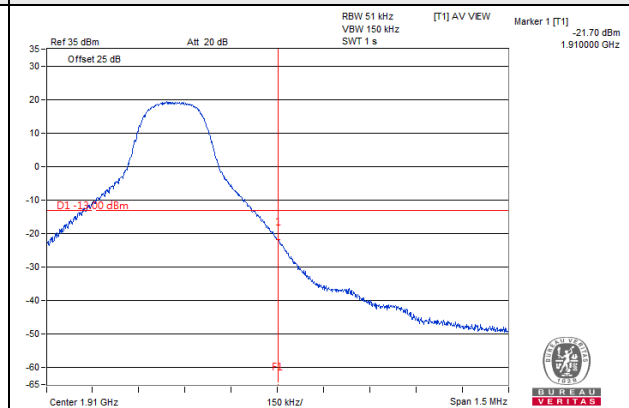
## Channel 18625

### 1 RB

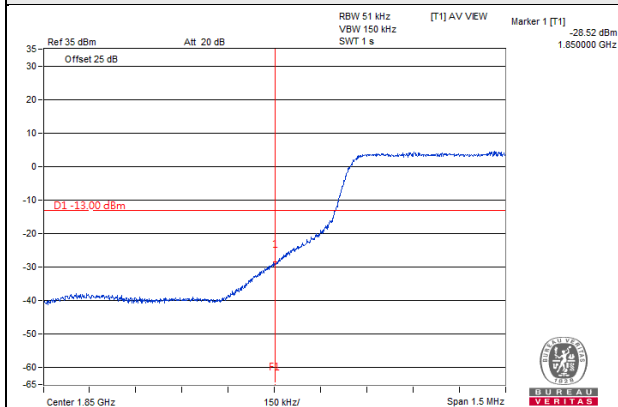


## Channel 19175

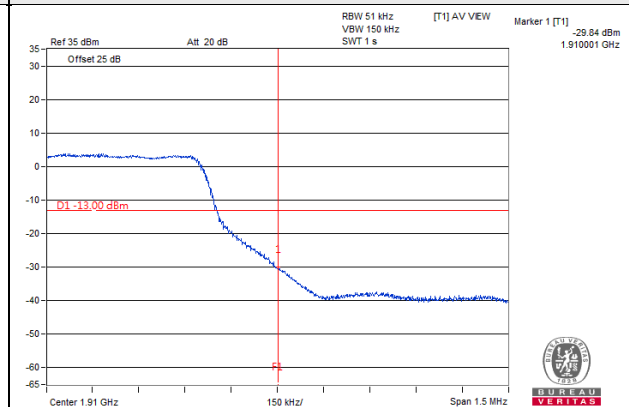
### 1 RB



### 25 RB



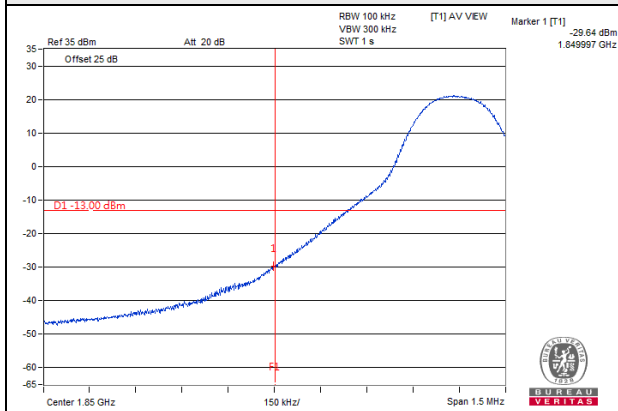
### 25 RB



# LTE Band 2 Channel Band width: 10MHz

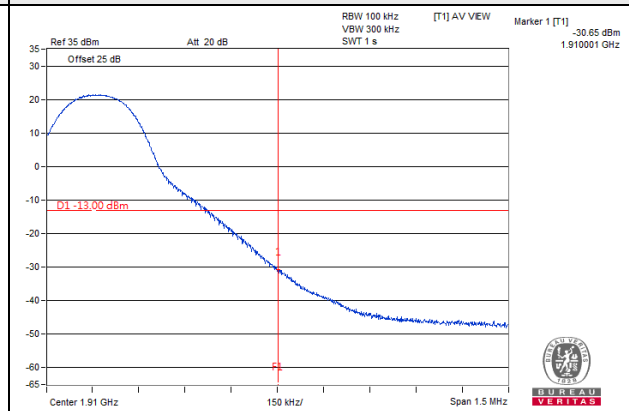
## Channel 18650

### 1 RB

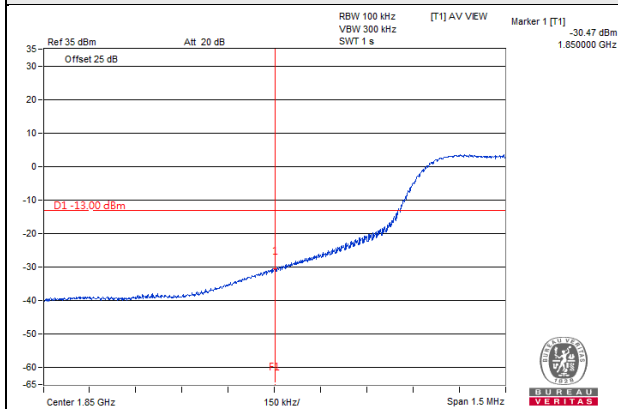


## Channel 19150

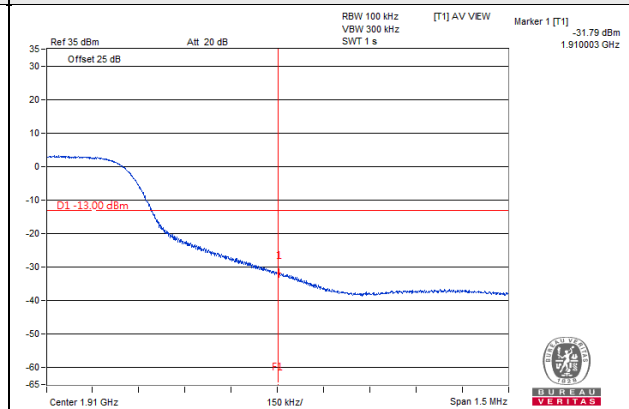
### 1 RB



### 50 RB



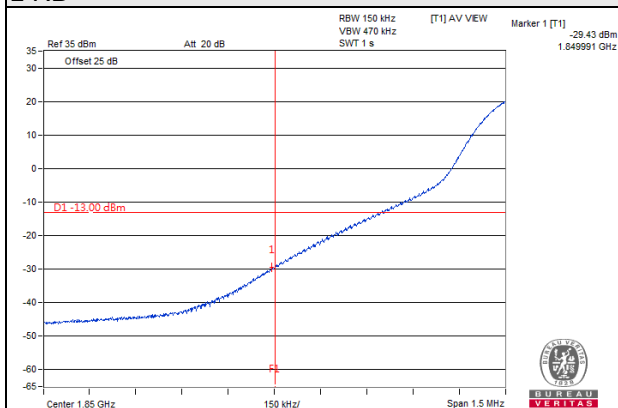
### 50 RB



# LTE Band 2 Channel Band width: 15MHz

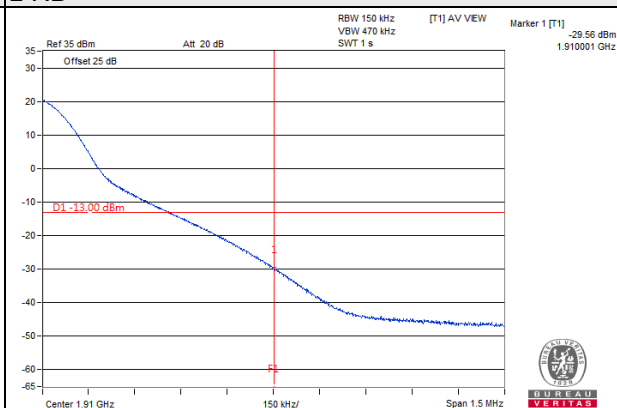
## Channel 18675

### 1 RB

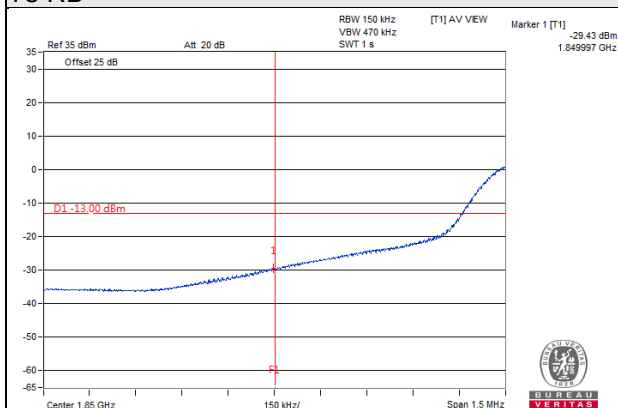


## Channel 19125

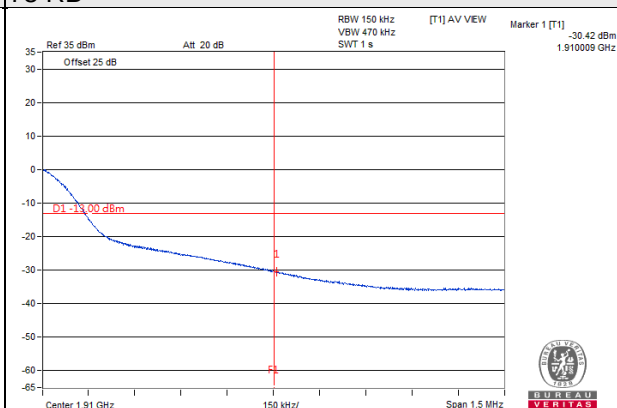
### 1 RB



### 75 RB



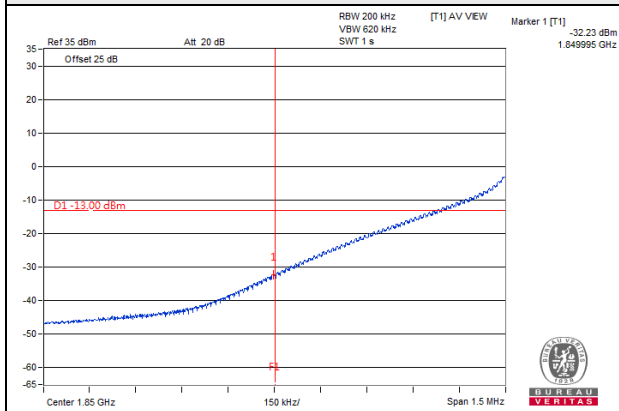
### 75 RB



# LTE Band 2 Channel Band width: 20MHz

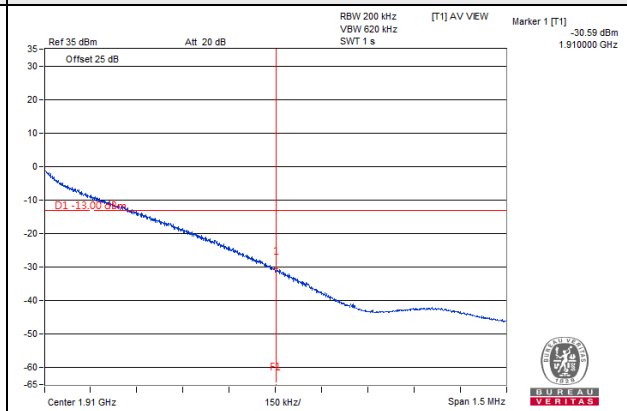
## Channel 18700

### 1 RB

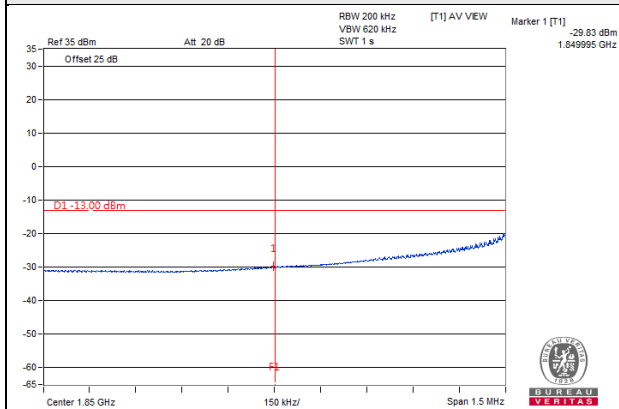


## Channel 19100

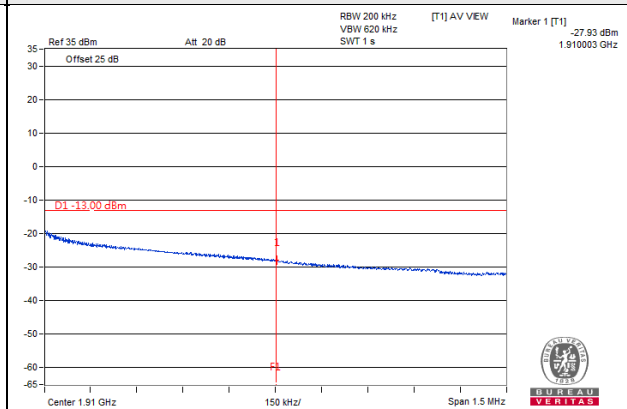
### 1 RB



### 100 RB



### 100 RB

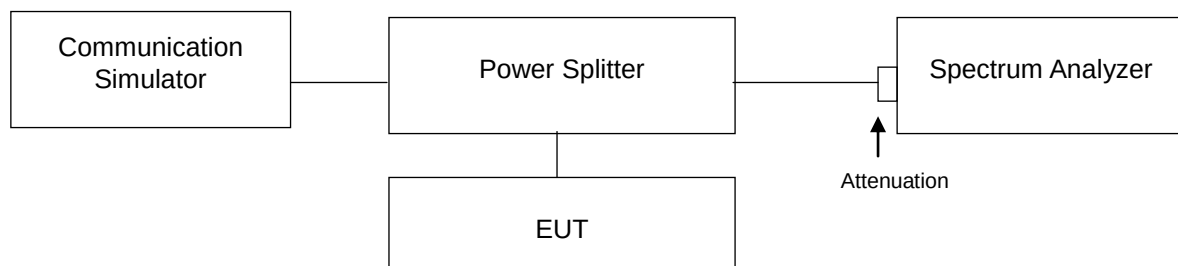


## 4.6 Peak to Average Ratio

### 4.5.1 Limits of Peak to Average Ratio Measurement

In measuring transmissions in this band using an average power technique, the peak to-average ratio (PAR) of the transmission may not exceed 13 dB

### 4.5.2 Test Setup

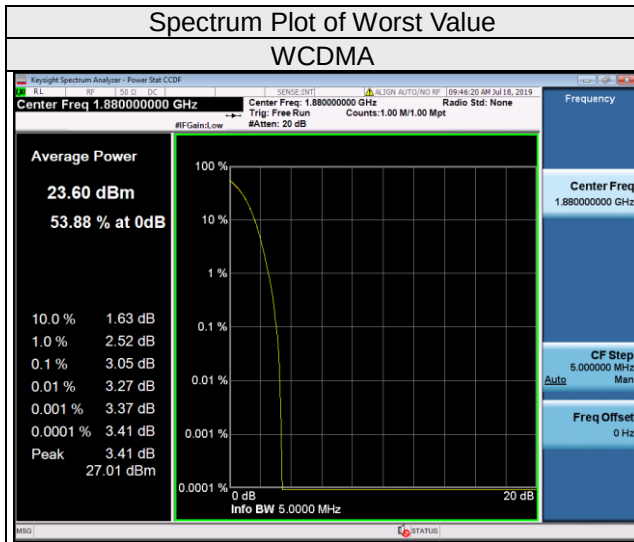


### 4.5.3 Test Procedures

1. Set resolution/measurement bandwidth  $\geq$  signal's occupied bandwidth;
2. Set the number of counts to a value that stabilizes the measured CCDF curve;
3. Record the maximum PAPR level associated with a probability of 0.1%.

#### 4.5.4 Test Results

| Channel | Freq. (MHz) | Peak to Average Ratio (dB) |
|---------|-------------|----------------------------|
|         |             | WCDMA                      |
| 9262    | 1852.4      | 3.04                       |
| 9400    | 1880        | 3.05                       |
| 9538    | 1907.6      | 3.00                       |

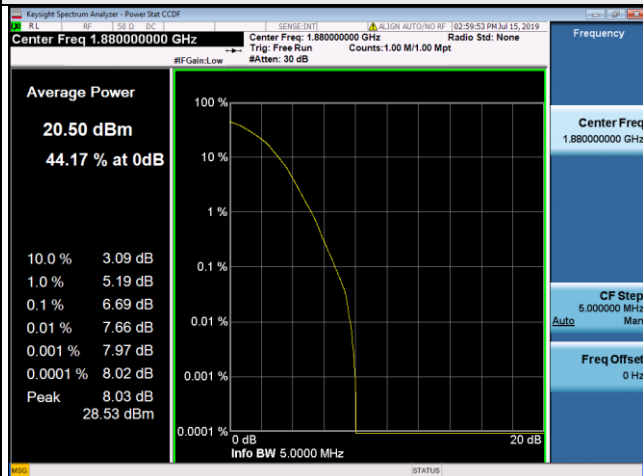


| LTE Band 2               |                 |                            |       |       |                         |                 |                            |       |       |
|--------------------------|-----------------|----------------------------|-------|-------|-------------------------|-----------------|----------------------------|-------|-------|
| Channel Bandwidth 1.4MHz |                 |                            |       |       | Channel Bandwidth 3MHz  |                 |                            |       |       |
| Channel                  | Frequency (MHz) | Peak To Average Ratio (dB) |       |       | Channel                 | Frequency (MHz) | Peak To Average Ratio (dB) |       |       |
|                          |                 | QPSK                       | 16QAM | 64QAM |                         |                 | QPSK                       | 16QAM | 64QAM |
| 18607                    | 1850.7          | 4.36                       | 5.30  | 6.10  | 18615                   | 1851.5          | 4.37                       | 5.40  | 6.24  |
| 18900                    | 1880            | 4.93                       | 6.19  | 6.69  | 18900                   | 1880            | 4.64                       | 6.08  | 6.68  |
| 19193                    | 1909.3          | 4.77                       | 5.79  | 6.57  | 19185                   | 1907.5          | 4.59                       | 5.95  | 6.60  |
| Channel Bandwidth 5MHz   |                 |                            |       |       | Channel Bandwidth 10MHz |                 |                            |       |       |
| Channel                  | Frequency (MHz) | Peak To Average Ratio (dB) |       |       | Channel                 | Frequency (MHz) | Peak To Average Ratio (dB) |       |       |
|                          |                 | QPSK                       | 16QAM | 64QAM |                         |                 | QPSK                       | 16QAM | 64QAM |
| 18625                    | 1852.5          | 4.56                       | 5.63  | 6.37  | 18650                   | 1855            | 4.59                       | 5.62  | 6.36  |
| 18900                    | 1880            | 4.85                       | 6.08  | 6.65  | 18900                   | 1880            | 4.78                       | 6.03  | 6.62  |
| 19175                    | 1907.5          | 4.81                       | 6.02  | 6.62  | 19150                   | 1905            | 4.70                       | 5.96  | 6.59  |
| Channel Bandwidth 15MHz  |                 |                            |       |       | Channel Bandwidth 20MHz |                 |                            |       |       |
| Channel                  | Frequency (MHz) | Peak To Average Ratio (dB) |       |       | Channel                 | Frequency (MHz) | Peak To Average Ratio (dB) |       |       |
|                          |                 | QPSK                       | 16QAM | 64QAM |                         |                 | QPSK                       | 16QAM | 64QAM |
| 18675                    | 1857.5          | 4.78                       | 5.76  | 6.37  | 18700                   | 1860            | 4.52                       | 5.53  | 6.27  |
| 18900                    | 1880            | 4.82                       | 5.94  | 6.58  | 18900                   | 1880            | 4.53                       | 5.79  | 6.47  |
| 19125                    | 1902.5          | 4.84                       | 5.97  | 6.58  | 19100                   | 1900            | 4.62                       | 5.89  | 6.50  |

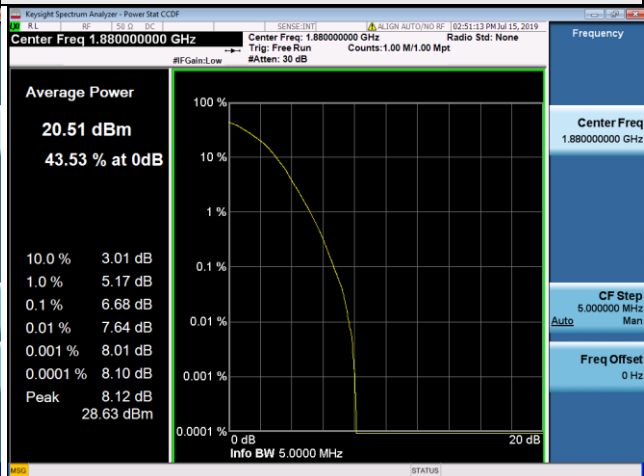


## Spectrum Plot of Worst Value

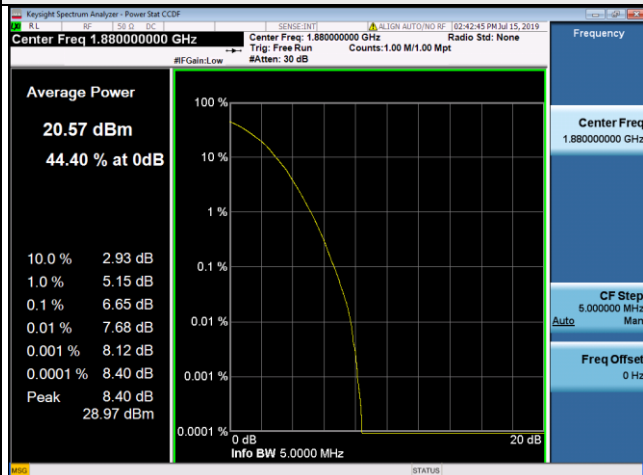
**1.4MHz / 64QAM**



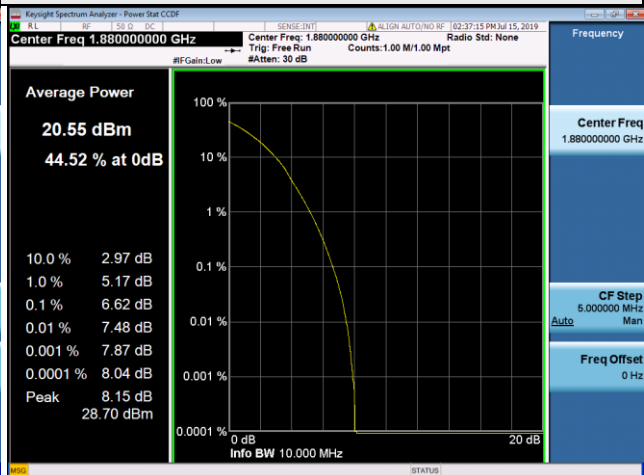
**3MHz / 64QAM**



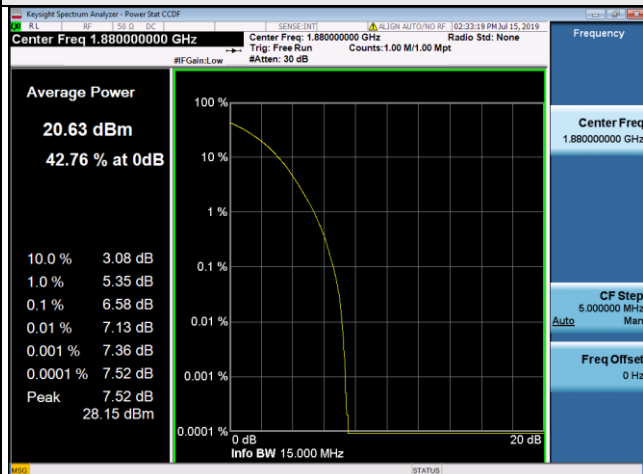
**5MHz / 64QAM**



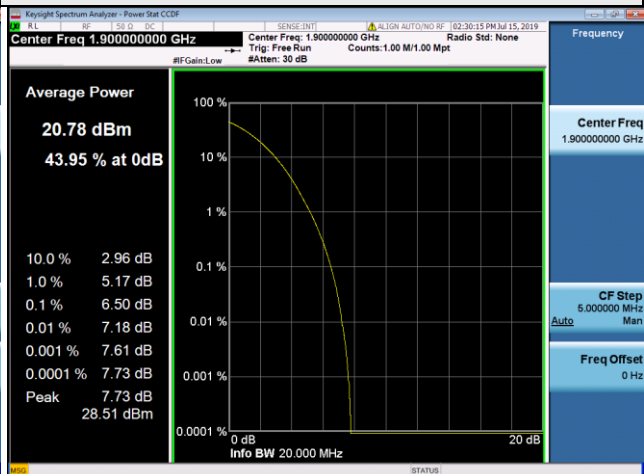
**10MHz / 64QAM**



**15MHz / 64QAM**



**20MHz / 64QAM**

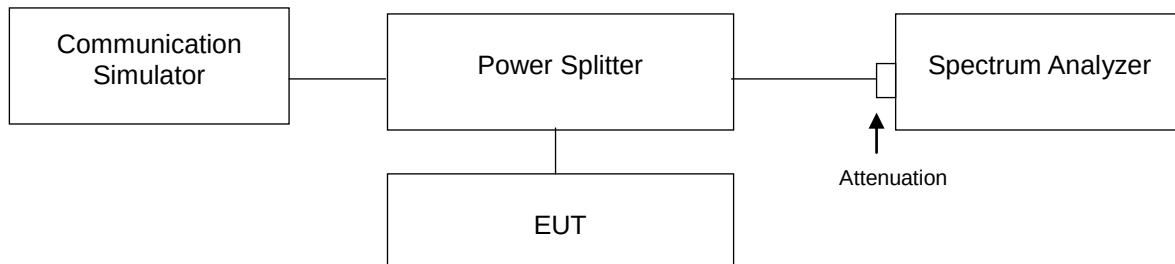


## 4.7 Conducted Spurious Emissions

### 4.7.1 Limits of Conducted Spurious Emissions Measurement

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least  $43 + 10 \log(P)$  dB. The emission limit equal to  $-13\text{dBm}$ .

### 4.7.2 Test Setup



### 4.7.3 Test Procedure

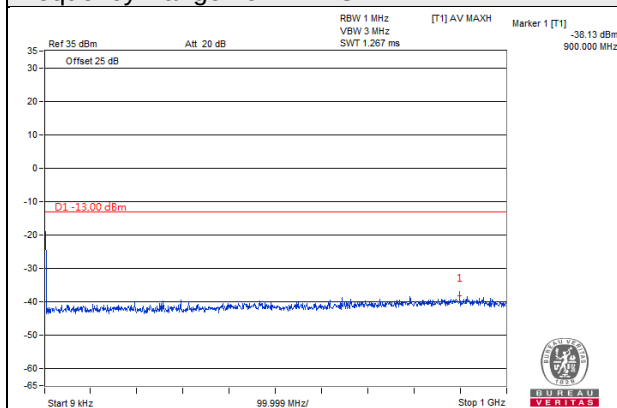
- All measurements were done at middle operational frequency range.
- Measuring frequency range is from 9 kHz to the tenth harmonic of the highest fundamental frequency, it shall be connected to the pad attenuated the carried frequency.  
RBW=1MHz and VBW=3MHz is used for conducted emission measurement.

## 4.7.4 Test Results

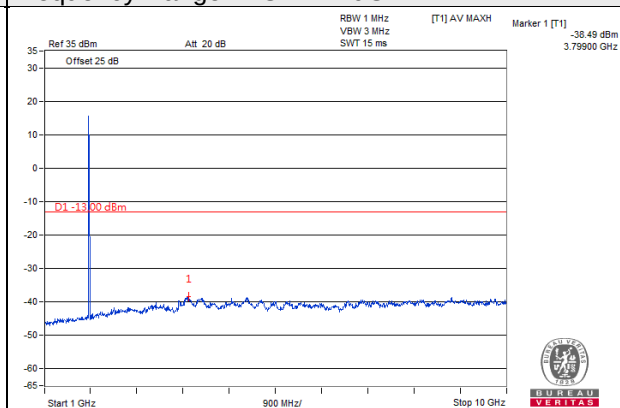
LTE Band 2 Channel Band width: 1.4MHz

Channel 18607

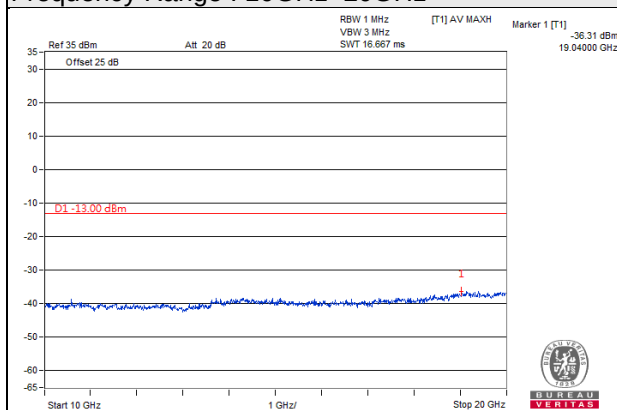
Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz ~10GHz



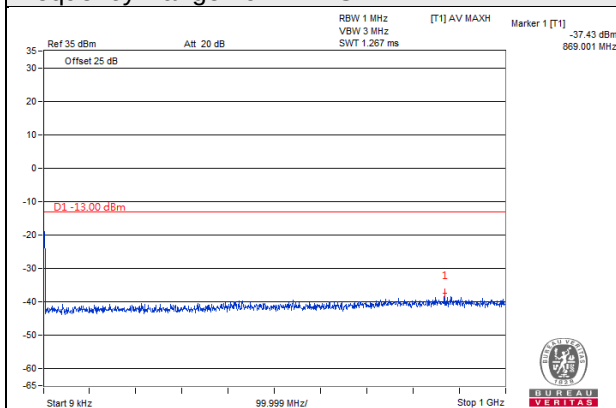
Frequency Range : 10GHz~20GHz



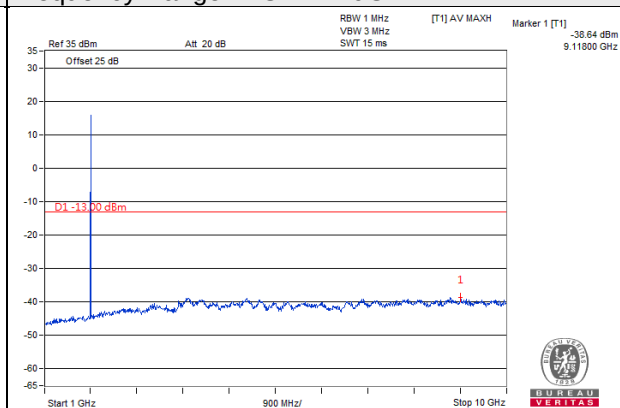
LTE Band 2 Channel Band width: 1.4MHz

Channel 18900

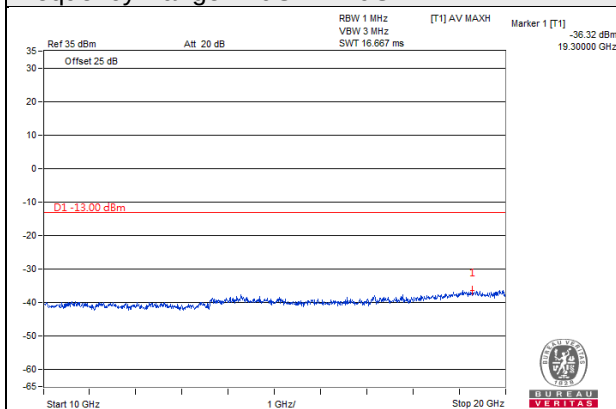
Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz ~10GHz



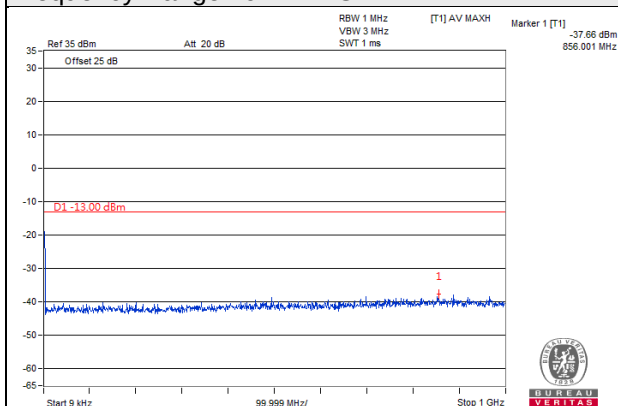
Frequency Range : 10GHz~20GHz



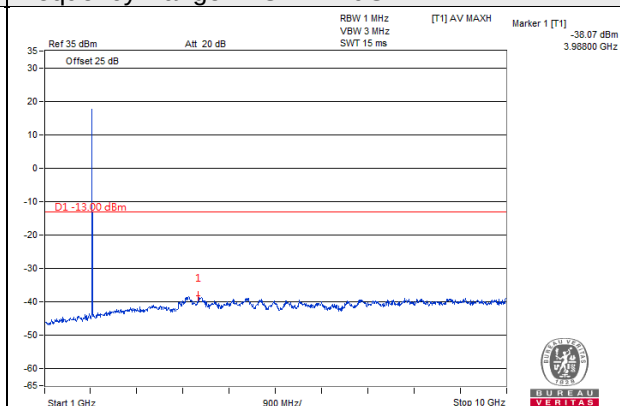
LTE Band 2 Channel Band width: 1.4MHz

Channel 19193

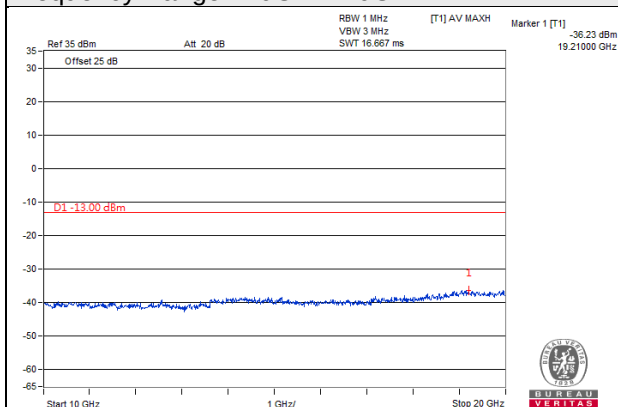
Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz ~10GHz



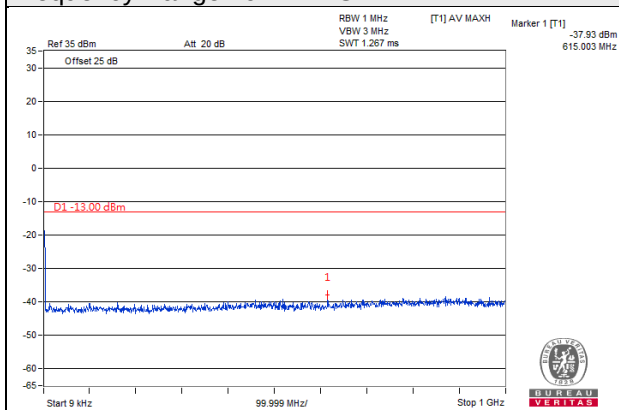
Frequency Range : 10GHz~20GHz



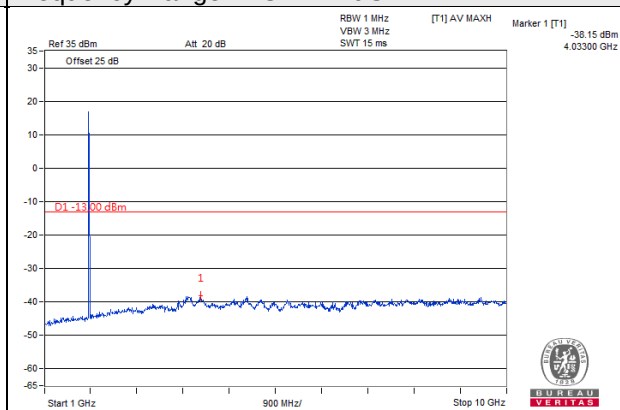
LTE Band 2 Channel Band width: 3MHz

Channel 18615

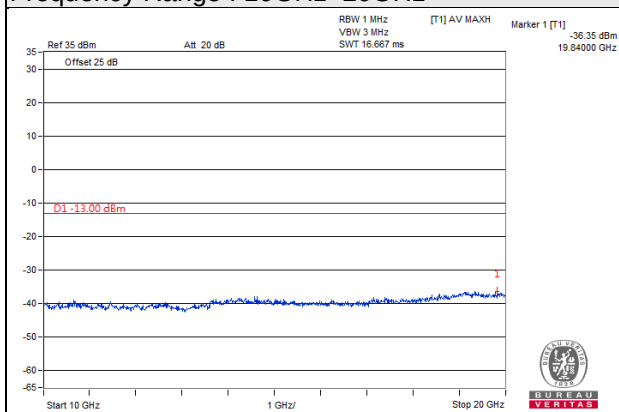
Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz ~10GHz



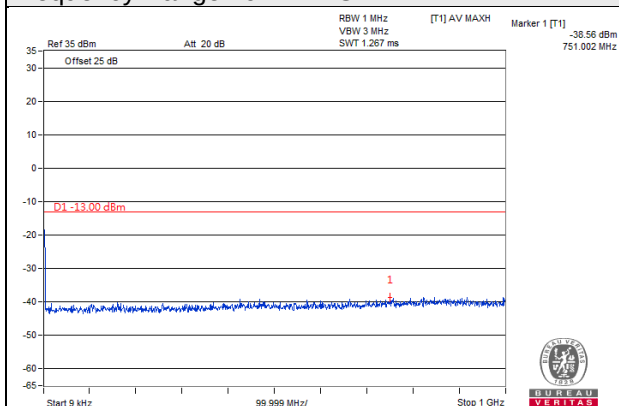
Frequency Range : 10GHz~20GHz



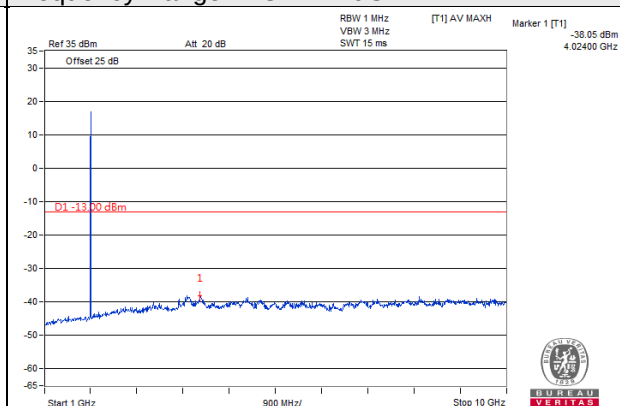
LTE Band 2 Channel Band width: 3MHz

Channel 18900

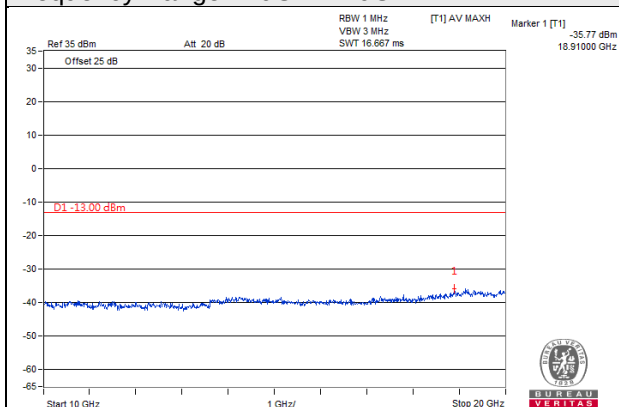
Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz ~10GHz



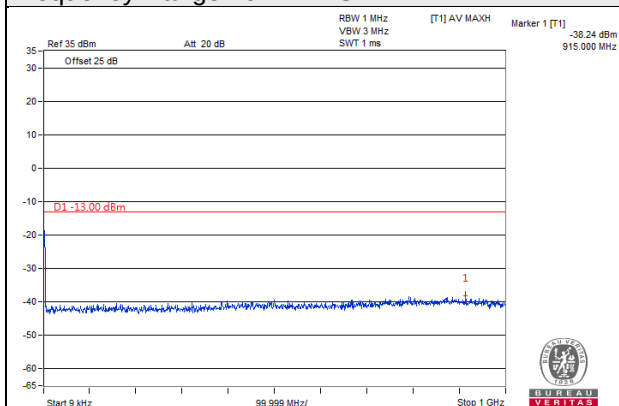
Frequency Range : 10GHz~20GHz



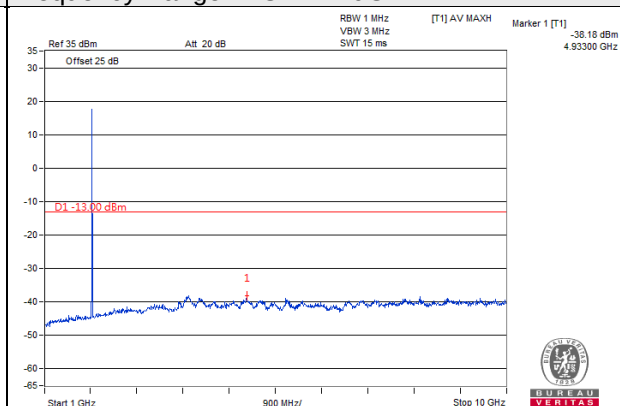
LTE Band 2 Channel Band width: 3MHz

Channel 19185

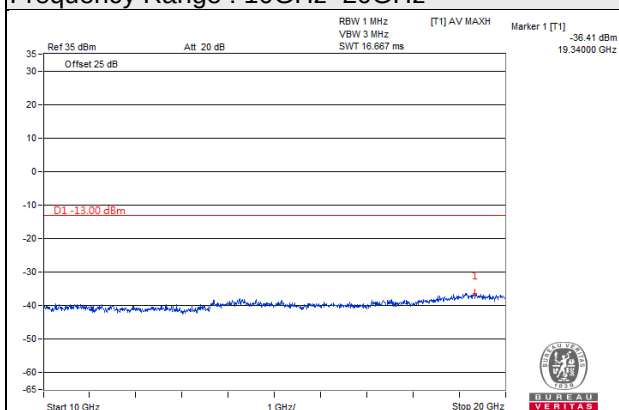
Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz ~10GHz



Frequency Range : 10GHz~20GHz

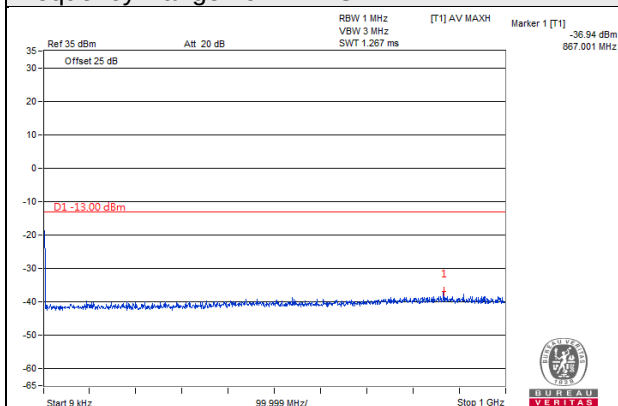




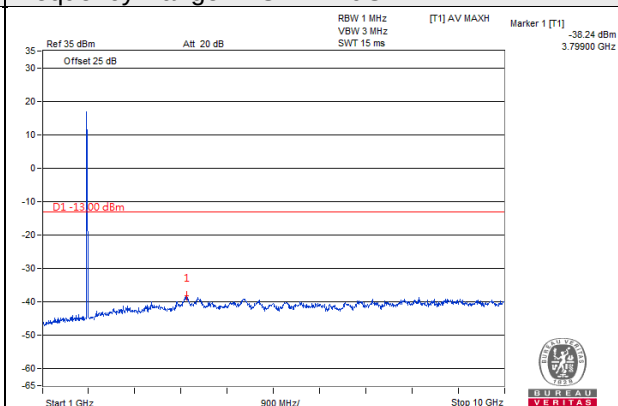
LTE Band 2 Channel Band width: 5MHz

Channel 18625

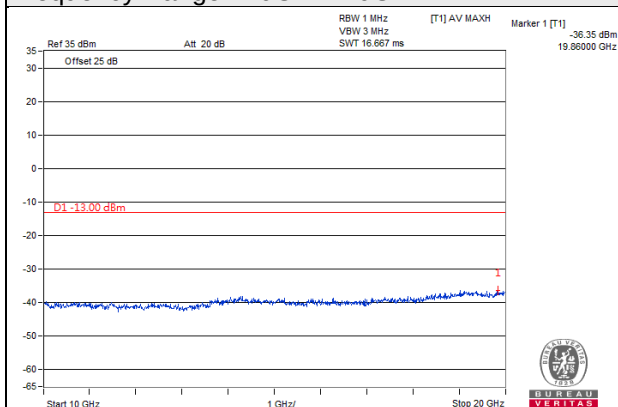
Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz ~10GHz



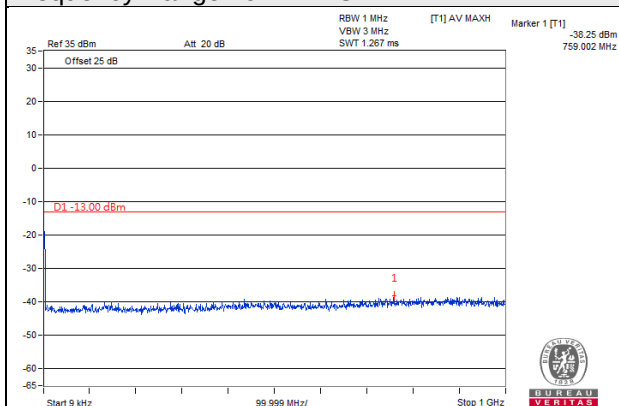
Frequency Range : 10GHz~20GHz



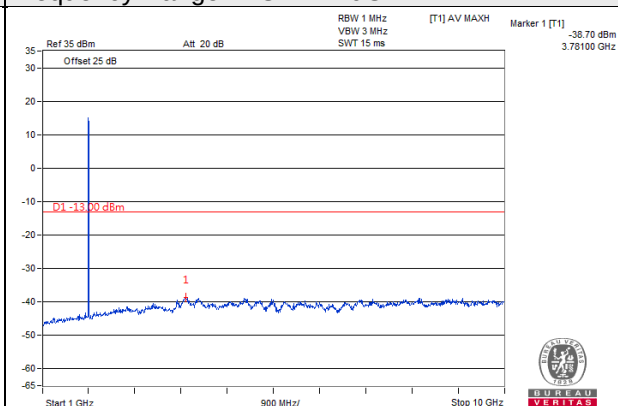
LTE Band 2 Channel Band width: 5MHz

Channel 18900

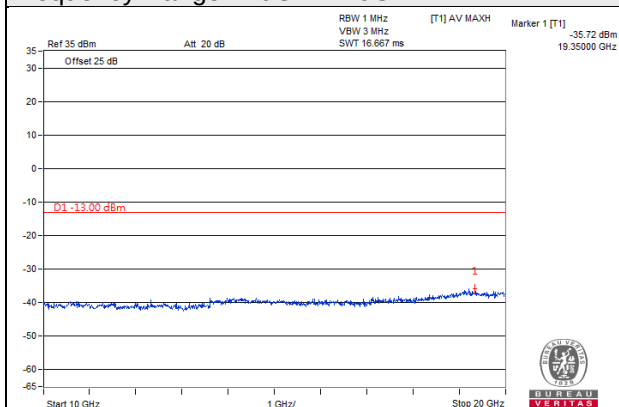
Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz ~10GHz



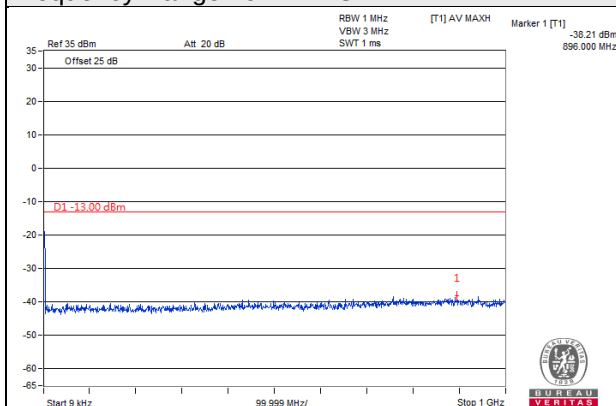
Frequency Range : 10GHz~20GHz



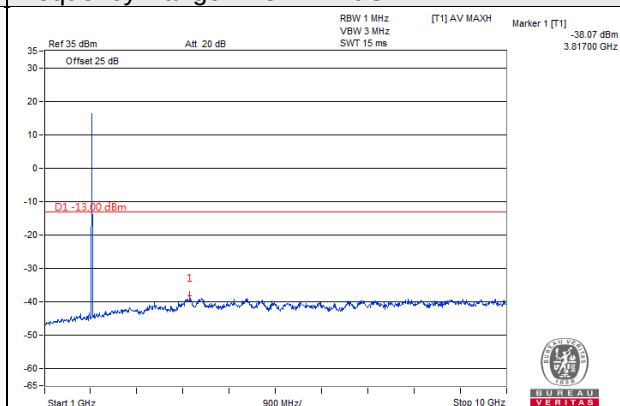
LTE Band 2 Channel Band width: 5MHz

Channel 19175

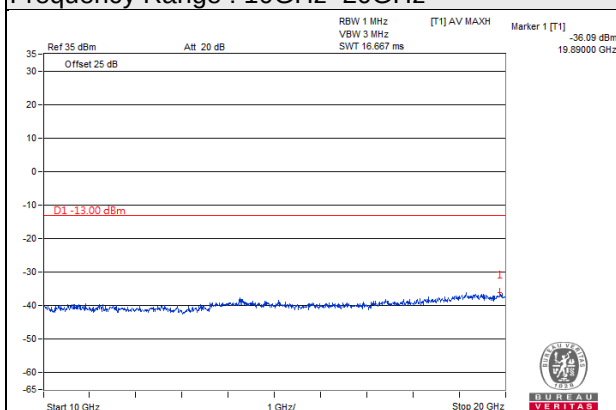
Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz ~10GHz



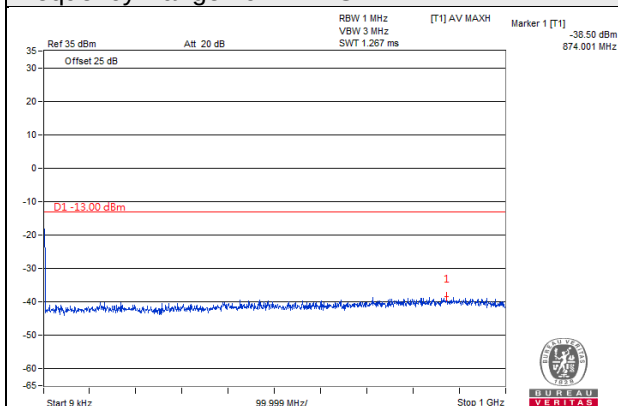
Frequency Range : 10GHz~20GHz



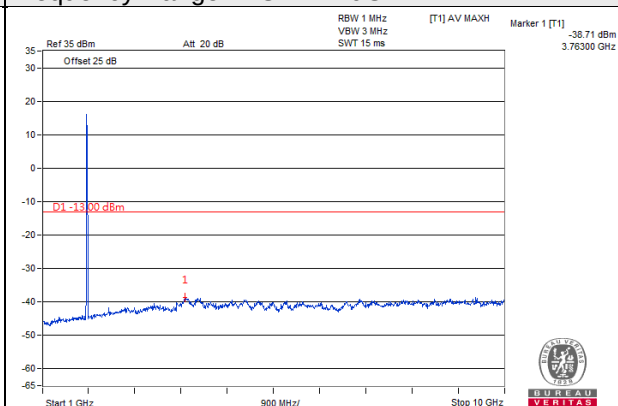
LTE Band 2 Channel Band width: 10MHz

Channel 18650

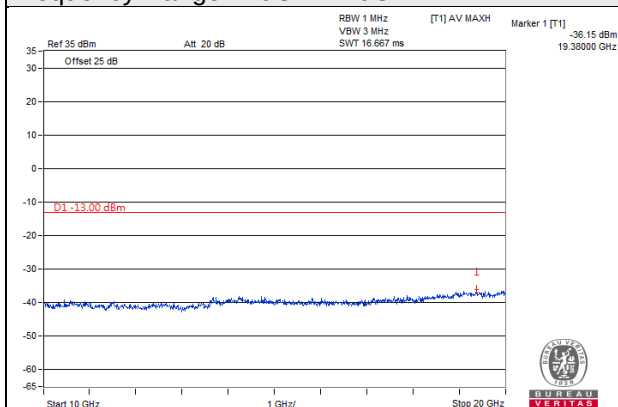
Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz ~10GHz



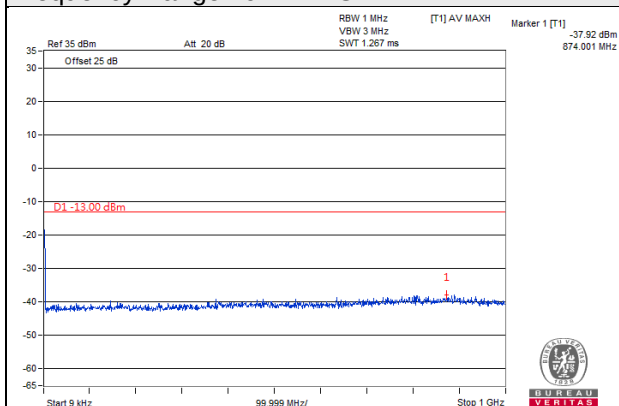
Frequency Range : 10GHz~20GHz



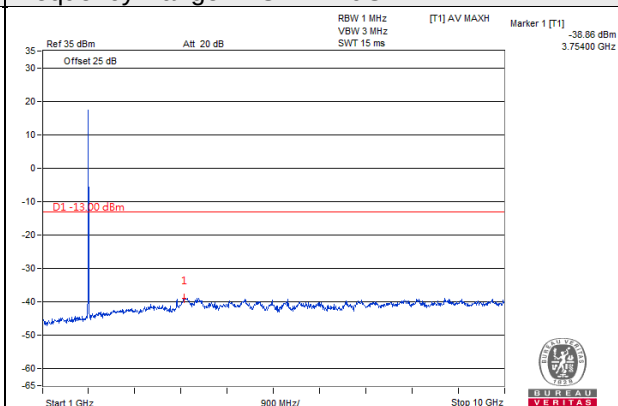
LTE Band 2 Channel Band width: 10MHz

Channel 18900

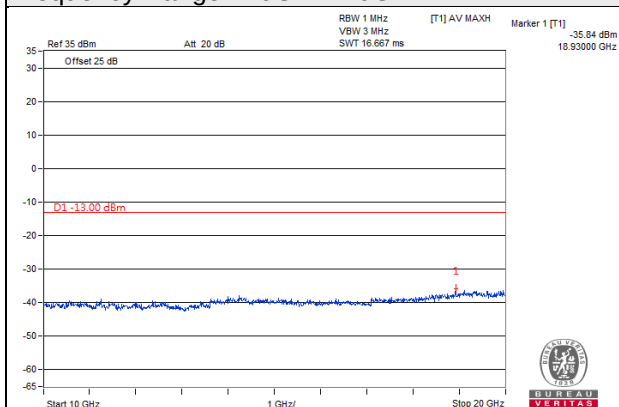
Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz ~10GHz



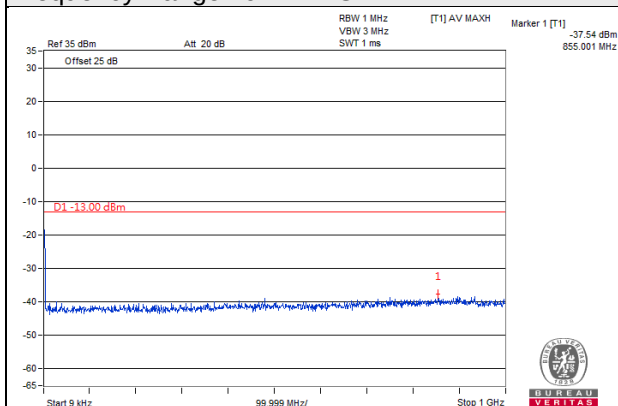
Frequency Range : 10GHz~20GHz



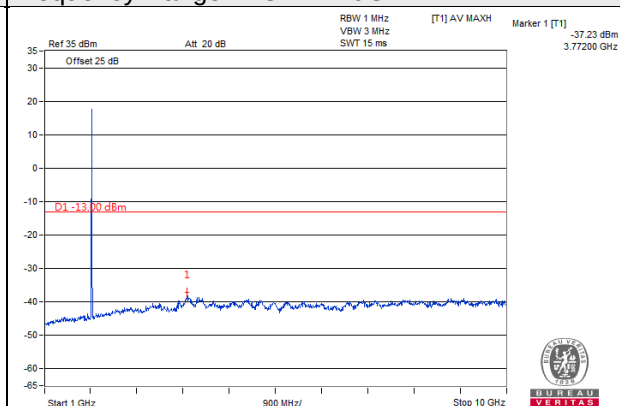
LTE Band 2 Channel Band width: 10MHz

Channel 19150

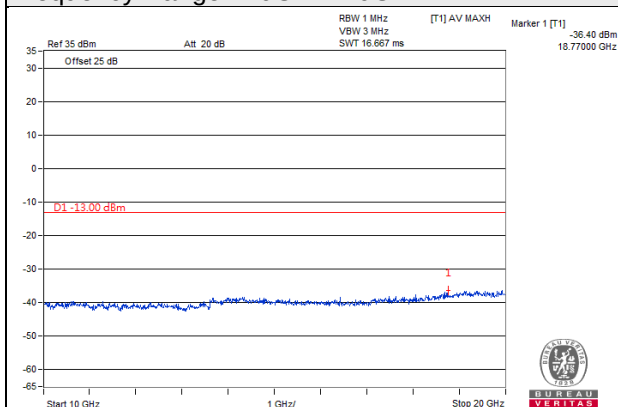
Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz ~10GHz



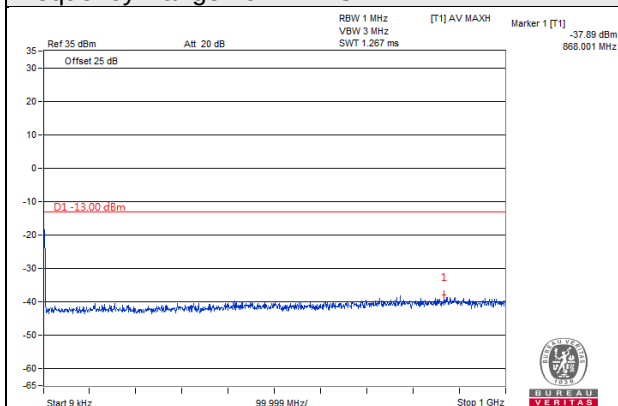
Frequency Range : 10GHz~20GHz



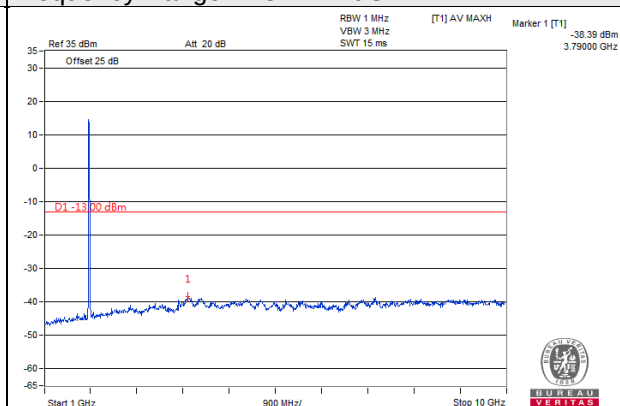
LTE Band 2 Channel Band width: 15MHz

Channel 18675

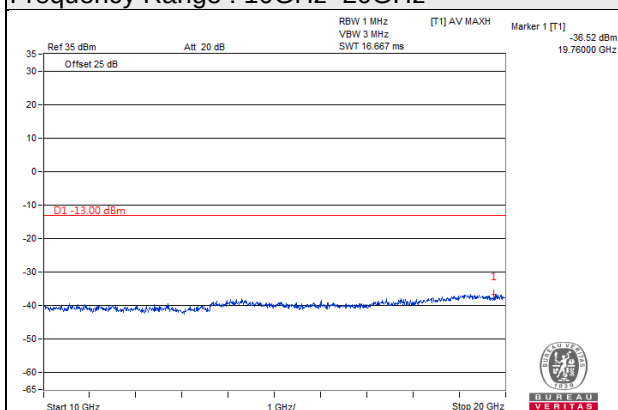
Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz ~10GHz



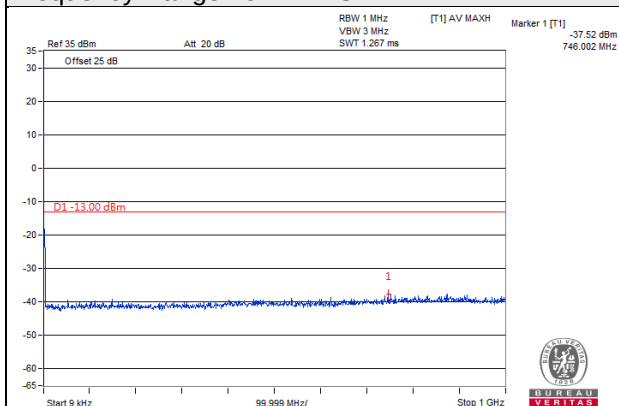
Frequency Range : 10GHz~20GHz



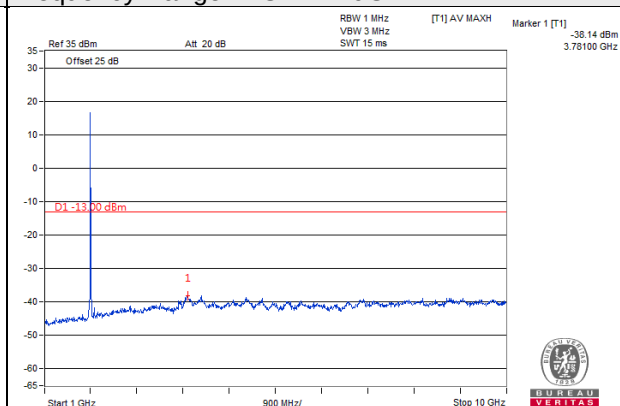
LTE Band 2 Channel Band width: 15MHz

Channel 18900

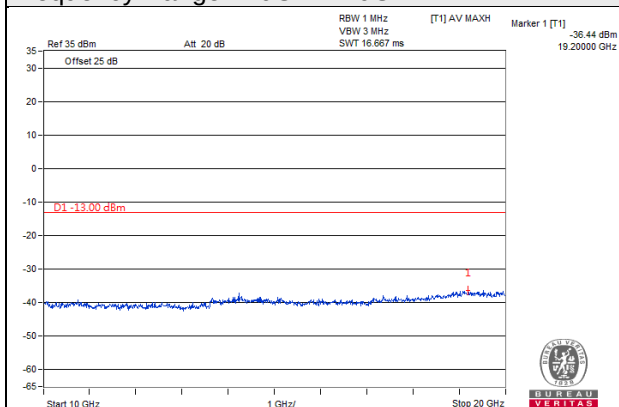
Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz ~10GHz



Frequency Range : 10GHz~20GHz

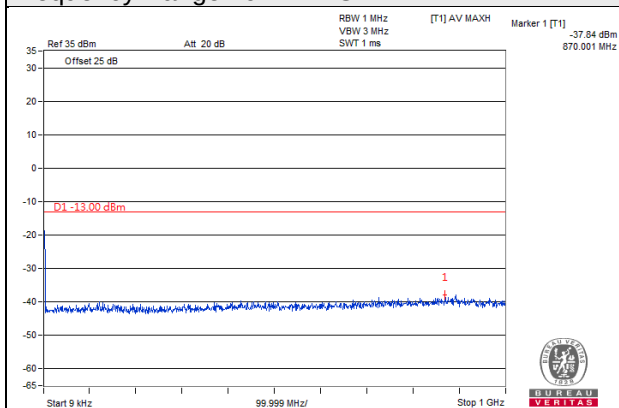




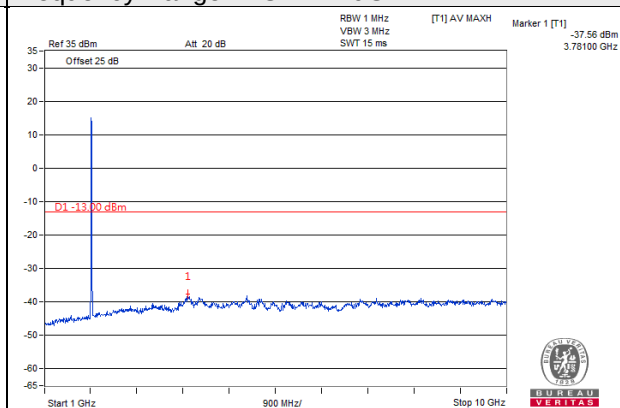
LTE Band 2 Channel Band width: 15MHz

Channel 19125

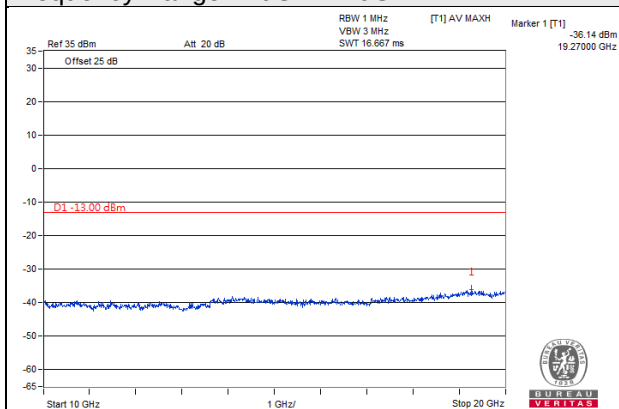
Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz ~10GHz



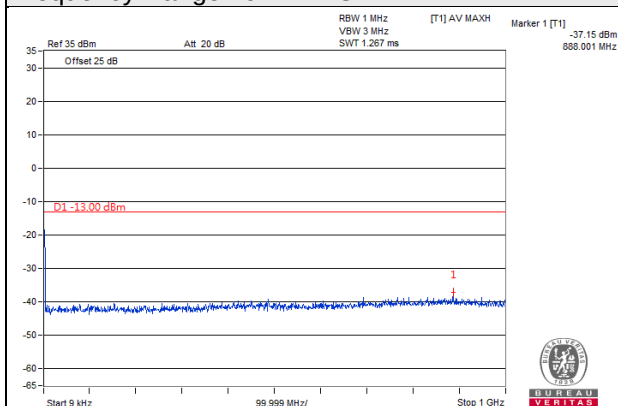
Frequency Range : 10GHz~20GHz



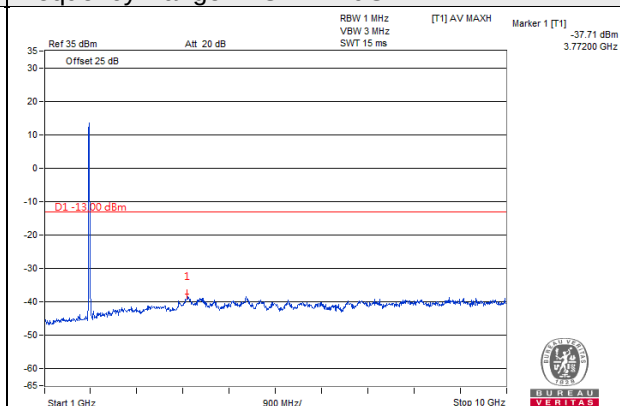
LTE Band 2 Channel Band width: 20MHz

Channel 18700

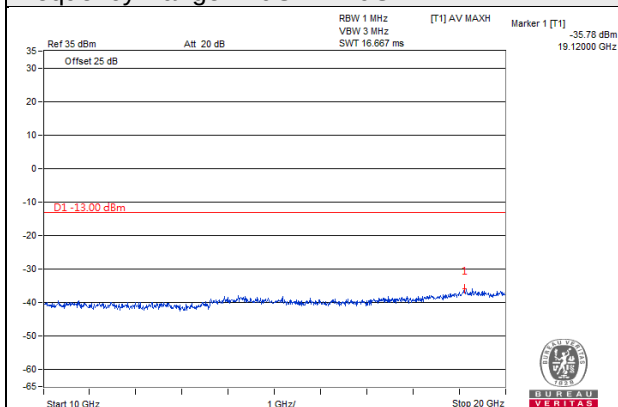
Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz ~10GHz



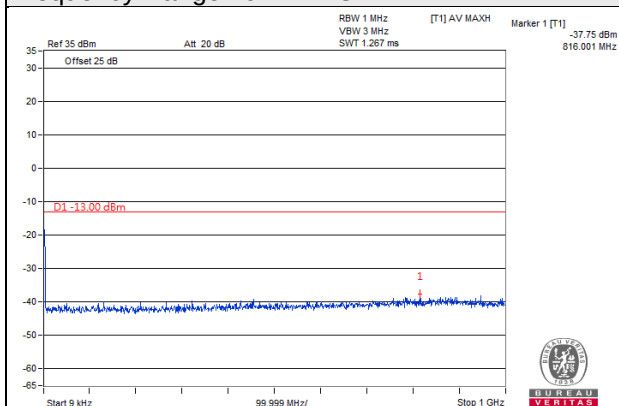
Frequency Range : 10GHz~20GHz



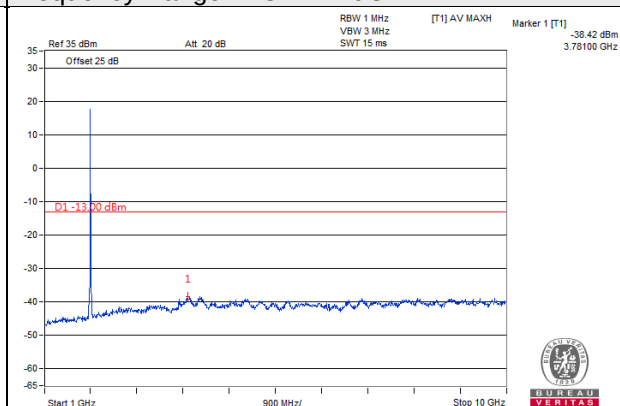
LTE Band 2 Channel Band width: 20MHz

Channel 18900

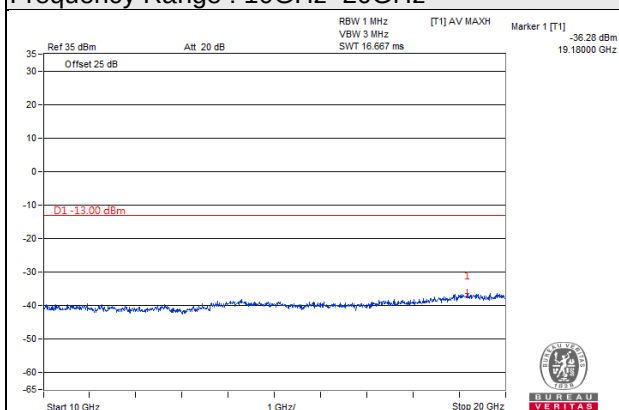
Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz ~10GHz



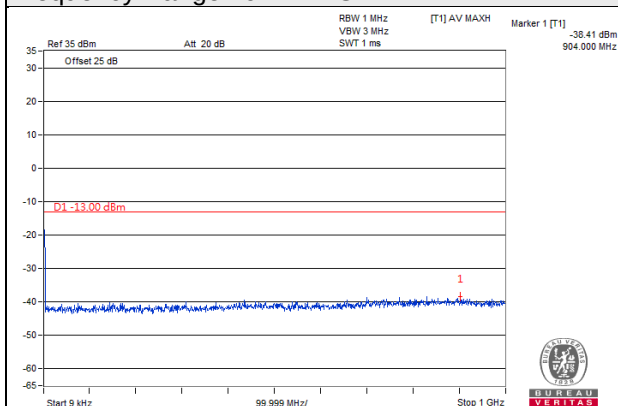
Frequency Range : 10GHz~20GHz



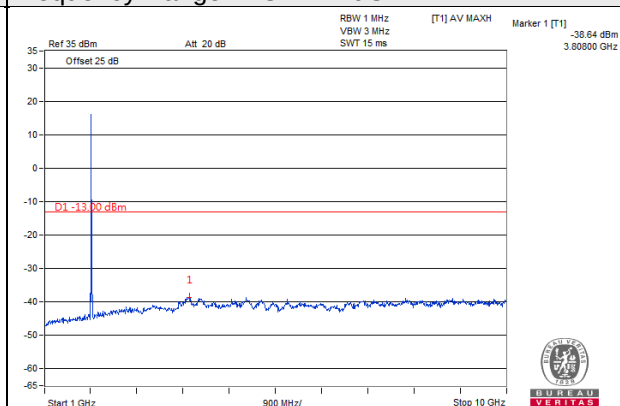
LTE Band 2 Channel Band width: 20MHz

Channel 19100

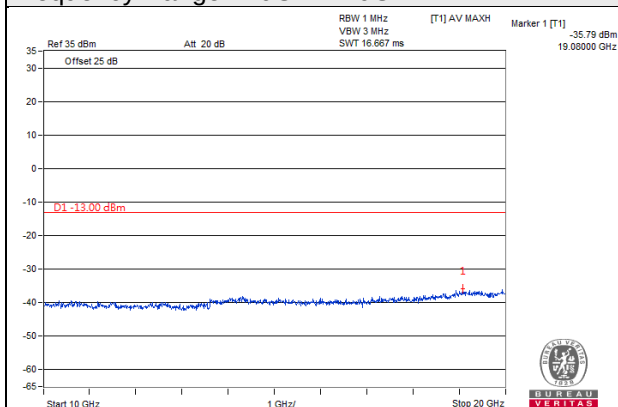
Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz ~10GHz



Frequency Range : 10GHz~20GHz



## 4.8 Radiated Emission Measurement

### 4.8.1 Limits of Radiated Emission Measurement

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least  $43 + 10 \log(P)$  dB. The emission limit equal to  $-13\text{dBm}$ .

### 4.8.2 Test Procedure

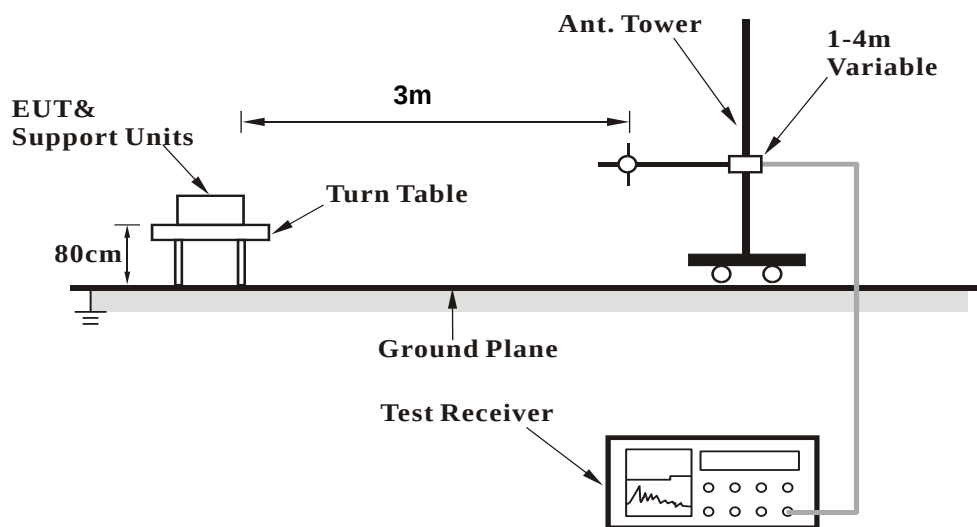
- a. The power was measured with Spectrum Analyzer.
- b. Substitution method is used for EIRP measurement. In the semi-anechoic chamber, EUT placed on the 0.8m/1.5m height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical 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.
- c. Follow ANSI 63.26 section 5.2.7 d),  $\text{EIRP Value (dBm)} = \text{Read Value (dB}\mu\text{V/m)} - \text{Correction Factor @ 3m}$
- d.  $\text{Correction Factor (dB) @ 3m} = 20\log(D) - 104.8$ ; where D is the measurement distance @3m  $= -95.26\text{dB}$
- e. ERP power can be calculated from EIRP power by subtracting the gain of dipole,  $\text{ERP power} = \text{EIRP power} - 2.15\text{dBi}$ .

**NOTE:** The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1MHz/3MHz.

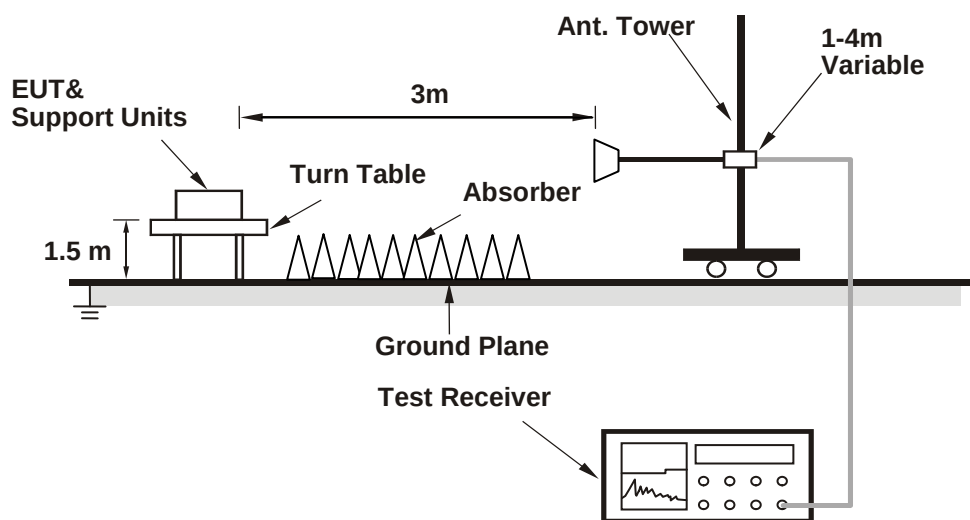
### 4.8.3 Deviation from Test Standard

No deviation.

#### 4.8.4 Test Setup For Below 1GHz



#### For Above 1GHz:



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

#### 4.8.5 Test Results

BELOW 1GHz

**WCDMA B2:**

|      |                 |                 |                |
|------|-----------------|-----------------|----------------|
| Mode | TX channel 9262 | Frequency Range | Below 1000 MHz |
|------|-----------------|-----------------|----------------|

| Antenna Polarity & Test Distance: Horizontal at 3 M |             |                   |                        |            |             |             |
|-----------------------------------------------------|-------------|-------------------|------------------------|------------|-------------|-------------|
| No.                                                 | Freq. (MHz) | Reading (dBμ V/m) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 38.82       | 35.22             | -95.26                 | -60.04     | -13         | -47.04      |
| 2                                                   | 123.59      | 36.79             | -95.26                 | -58.47     | -13         | -45.47      |
| 3                                                   | 178.64      | 28.13             | -95.26                 | -67.13     | -13         | -54.13      |
| 4                                                   | 220.74      | 34.41             | -95.26                 | -60.85     | -13         | -47.85      |
| 5                                                   | 344.81      | 31.59             | -95.26                 | -63.67     | -13         | -50.67      |
| 6                                                   | 512.73      | 30.82             | -95.26                 | -64.44     | -13         | -51.44      |
| Antenna Polarity & Test Distance: Vertical at 3 M   |             |                   |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBμ V/m) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 41.85       | 35.66             | -95.26                 | -59.60     | -13         | -46.60      |
| 2                                                   | 137.05      | 35.72             | -95.26                 | -59.54     | -13         | -46.54      |
| 3                                                   | 212.53      | 30.45             | -95.26                 | -64.81     | -13         | -51.81      |
| 4                                                   | 310.28      | 25.63             | -95.26                 | -69.63     | -13         | -56.63      |
| 5                                                   | 488.67      | 34.52             | -95.26                 | -60.74     | -13         | -47.74      |
| 6                                                   | 614.62      | 32                | -95.26                 | -63.26     | -13         | -50.26      |

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), EIRP Value (dBm) = E (dBμV/m) - Correction Factor @ 3m.
2. Correction Factor (dB) =  $20\log(D) - 104.8$ ; where D is the measurement distance @3m.

|      |                 |                 |                |
|------|-----------------|-----------------|----------------|
| Mode | TX channel 9400 | Frequency Range | Below 1000 MHz |
|------|-----------------|-----------------|----------------|

| Antenna Polarity & Test Distance: Horizontal at 3 M |             |                        |                        |            |             |             |
|-----------------------------------------------------|-------------|------------------------|------------------------|------------|-------------|-------------|
| No.                                                 | Freq. (MHz) | Reading (dB $\mu$ V/m) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 39.82       | 35.22                  | -95.26                 | -60.04     | -13         | -47.04      |
| 2                                                   | 122.79      | 36.1                   | -95.26                 | -59.16     | -13         | -46.16      |
| 3                                                   | 177.08      | 27.59                  | -95.26                 | -67.67     | -13         | -54.67      |
| 4                                                   | 221.06      | 34.46                  | -95.26                 | -60.80     | -13         | -47.80      |
| 5                                                   | 345.67      | 30.7                   | -95.26                 | -64.56     | -13         | -51.56      |
| 6                                                   | 512.77      | 31.27                  | -95.26                 | -63.99     | -13         | -50.99      |
| Antenna Polarity & Test Distance: Vertical at 3 M   |             |                        |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dB $\mu$ V/m) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 43.53       | 34.03                  | -95.26                 | -61.23     | -13         | -48.23      |
| 2                                                   | 137.65      | 35.89                  | -95.26                 | -59.37     | -13         | -46.37      |
| 3                                                   | 212.07      | 32.16                  | -95.26                 | -63.10     | -13         | -50.10      |
| 4                                                   | 312.09      | 25.88                  | -95.26                 | -69.38     | -13         | -56.38      |
| 5                                                   | 488.77      | 33.84                  | -95.26                 | -61.42     | -13         | -48.42      |
| 6                                                   | 615.56      | 32.51                  | -95.26                 | -62.75     | -13         | -49.75      |

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), EIRP Value (dBm) = E (dB $\mu$ V/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = 20log(D) - 104.8; where D is the measurement distance @3m.



|      |                 |                 |                |
|------|-----------------|-----------------|----------------|
| Mode | TX channel 9538 | Frequency Range | Below 1000 MHz |
|------|-----------------|-----------------|----------------|

| Antenna Polarity & Test Distance: Horizontal at 3 M |                |                      |                           |               |                |             |
|-----------------------------------------------------|----------------|----------------------|---------------------------|---------------|----------------|-------------|
| No.                                                 | Freq.<br>(MHz) | Reading<br>(dBμ V/m) | Correction Factor<br>(dB) | EIRP<br>(dBm) | Limit<br>(dBm) | Margin (dB) |
| 1                                                   | 40.71          | 35.54                | -95.26                    | -59.72        | -13            | -46.72      |
| 2                                                   | 124.37         | 36.56                | -95.26                    | -58.70        | -13            | -45.70      |
| 3                                                   | 178.37         | 28.07                | -95.26                    | -67.19        | -13            | -54.19      |
| 4                                                   | 222.45         | 34.47                | -95.26                    | -60.79        | -13            | -47.79      |
| 5                                                   | 344.27         | 31.06                | -95.26                    | -64.20        | -13            | -51.20      |
| 6                                                   | 512.67         | 30.78                | -95.26                    | -64.48        | -13            | -51.48      |
| Antenna Polarity & Test Distance: Vertical at 3 M   |                |                      |                           |               |                |             |
| No.                                                 | Freq.<br>(MHz) | Reading<br>(dBμ V/m) | Correction Factor<br>(dB) | EIRP<br>(dBm) | Limit<br>(dBm) | Margin (dB) |
| 1                                                   | 43.64          | 35.14                | -95.26                    | -60.12        | -13            | -47.12      |
| 2                                                   | 138.46         | 36.81                | -95.26                    | -58.45        | -13            | -45.45      |
| 3                                                   | 211.42         | 31.9                 | -95.26                    | -63.36        | -13            | -50.36      |
| 4                                                   | 311.92         | 25.46                | -95.26                    | -69.80        | -13            | -56.80      |
| 5                                                   | 489.36         | 32.98                | -95.26                    | -62.28        | -13            | -49.28      |
| 6                                                   | 614.6          | 32.14                | -95.26                    | -63.12        | -13            | -50.12      |

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), EIRP Value (dBm) = E (dBμV/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = 20log(D) - 104.8; where D is the measurement distance @3m.

## LTE Band 2: 1.4 MHz

|      |                  |                 |                |
|------|------------------|-----------------|----------------|
| Mode | TX channel 18607 | Frequency Range | Below 1000 MHz |
|------|------------------|-----------------|----------------|

| Antenna Polarity & Test Distance: Horizontal at 3 M |             |                   |                        |            |             |             |
|-----------------------------------------------------|-------------|-------------------|------------------------|------------|-------------|-------------|
| No.                                                 | Freq. (MHz) | Reading (dBμ V/m) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 41.54       | 33.68             | -95.26                 | -61.58     | -13         | -48.58      |
| 2                                                   | 100.98      | 34.18             | -95.26                 | -61.08     | -13         | -48.08      |
| 3                                                   | 157.05      | 26.88             | -95.26                 | -68.38     | -13         | -55.38      |
| 4                                                   | 187.97      | 32.62             | -95.26                 | -62.64     | -13         | -49.64      |
| 5                                                   | 314.32      | 32.19             | -95.26                 | -63.07     | -13         | -50.07      |
| 6                                                   | 440.02      | 28.91             | -95.26                 | -66.35     | -13         | -53.35      |
| Antenna Polarity & Test Distance: Vertical at 3 M   |             |                   |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBμ V/m) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 56.62       | 34.11             | -95.26                 | -61.15     | -13         | -48.15      |
| 2                                                   | 93.27       | 36.11             | -95.26                 | -59.15     | -13         | -46.15      |
| 3                                                   | 134.21      | 31.47             | -95.26                 | -63.79     | -13         | -50.79      |
| 4                                                   | 178.32      | 26.08             | -95.26                 | -69.18     | -13         | -56.18      |
| 5                                                   | 326.01      | 32.71             | -95.26                 | -62.55     | -13         | -49.55      |
| 6                                                   | 553.98      | 32.37             | -95.26                 | -62.89     | -13         | -49.89      |

### Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), EIRP Value (dBm) = E (dBμV/m) - Correction Factor @ 3m.
2. Correction Factor (dB) =  $20\log(D) - 104.8$ ; where D is the measurement distance @3m.

|      |                  |                 |                |
|------|------------------|-----------------|----------------|
| Mode | TX channel 18900 | Frequency Range | Below 1000 MHz |
|------|------------------|-----------------|----------------|

Antenna Polarity & Test Distance: Horizontal at 3 M

| No. | Freq. (MHz) | Reading (dBμ V/m) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
|-----|-------------|-------------------|------------------------|------------|-------------|-------------|
| 1   | 41.2        | 34.59             | -95.26                 | -60.67     | -13         | -47.67      |
| 2   | 102.59      | 35.17             | -95.26                 | -60.09     | -13         | -47.09      |
| 3   | 156.56      | 26.9              | -95.26                 | -68.36     | -13         | -55.36      |
| 4   | 188.64      | 34.06             | -95.26                 | -61.20     | -13         | -48.20      |
| 5   | 313.2       | 31.05             | -95.26                 | -64.21     | -13         | -51.21      |
| 6   | 440.08      | 30.13             | -95.26                 | -65.13     | -13         | -52.13      |

Antenna Polarity & Test Distance: Vertical at 3 M

| No. | Freq. (MHz) | Reading (dBμ V/m) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
|-----|-------------|-------------------|------------------------|------------|-------------|-------------|
| 1   | 56.95       | 34.72             | -95.26                 | -60.54     | -13         | -47.54      |
| 2   | 92.73       | 36.01             | -95.26                 | -59.25     | -13         | -46.25      |
| 3   | 134.24      | 29.98             | -95.26                 | -65.28     | -13         | -52.28      |
| 4   | 178.19      | 25.18             | -95.26                 | -70.08     | -13         | -57.08      |
| 5   | 325.71      | 33.8              | -95.26                 | -61.46     | -13         | -48.46      |
| 6   | 552.23      | 31.79             | -95.26                 | -63.47     | -13         | -50.47      |

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), EIRP Value (dBm) = E (dBμV/m) - Correction Factor @ 3m.
2. Correction Factor (dB) =  $20\log(D) - 104.8$ ; where D is the measurement distance @3m.

|      |                  |                 |                |
|------|------------------|-----------------|----------------|
| Mode | TX channel 19193 | Frequency Range | Below 1000 MHz |
|------|------------------|-----------------|----------------|

| Antenna Polarity & Test Distance: Horizontal at 3 M |             |                        |                        |            |             |             |
|-----------------------------------------------------|-------------|------------------------|------------------------|------------|-------------|-------------|
| No.                                                 | Freq. (MHz) | Reading (dB $\mu$ V/m) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 40.31       | 34.76                  | -95.26                 | -60.50     | -13         | -47.50      |
| 2                                                   | 101.87      | 35.56                  | -95.26                 | -59.70     | -13         | -46.70      |
| 3                                                   | 156.2       | 27.4                   | -95.26                 | -67.86     | -13         | -54.86      |
| 4                                                   | 187.17      | 32.98                  | -95.26                 | -62.28     | -13         | -49.28      |
| 5                                                   | 314.15      | 31.58                  | -95.26                 | -63.68     | -13         | -50.68      |
| 6                                                   | 440.27      | 29.44                  | -95.26                 | -65.82     | -13         | -52.82      |
| Antenna Polarity & Test Distance: Vertical at 3 M   |             |                        |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dB $\mu$ V/m) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 55.38       | 35.02                  | -95.26                 | -60.24     | -13         | -47.24      |
| 2                                                   | 91.57       | 36.12                  | -95.26                 | -59.14     | -13         | -46.14      |
| 3                                                   | 134.91      | 29.89                  | -95.26                 | -65.37     | -13         | -52.37      |
| 4                                                   | 178.78      | 26.2                   | -95.26                 | -69.06     | -13         | -56.06      |
| 5                                                   | 326.02      | 33.07                  | -95.26                 | -62.19     | -13         | -49.19      |
| 6                                                   | 553.09      | 32.91                  | -95.26                 | -62.35     | -13         | -49.35      |

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), EIRP Value (dBm) = E (dB $\mu$ V/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = 20log(D) - 104.8; where D is the measurement distance @3m.

## LTE Band 2: 3 MHz

|      |                  |                 |                |
|------|------------------|-----------------|----------------|
| Mode | TX channel 18615 | Frequency Range | Below 1000 MHz |
|------|------------------|-----------------|----------------|

| Antenna Polarity & Test Distance: Horizontal at 3 M |             |                   |                        |            |             |             |
|-----------------------------------------------------|-------------|-------------------|------------------------|------------|-------------|-------------|
| No.                                                 | Freq. (MHz) | Reading (dBμ V/m) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 41.33       | 33.55             | -95.26                 | -61.71     | -13         | -48.71      |
| 2                                                   | 100.95      | 34.2              | -95.26                 | -61.06     | -13         | -48.06      |
| 3                                                   | 157.25      | 27.05             | -95.26                 | -68.21     | -13         | -55.21      |
| 4                                                   | 188.7       | 33.2              | -95.26                 | -62.06     | -13         | -49.06      |
| 5                                                   | 313.45      | 30.44             | -95.26                 | -64.82     | -13         | -51.82      |
| 6                                                   | 439.19      | 29.29             | -95.26                 | -65.97     | -13         | -52.97      |
| Antenna Polarity & Test Distance: Vertical at 3 M   |             |                   |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBμ V/m) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 56.77       | 35.19             | -95.26                 | -60.07     | -13         | -47.07      |
| 2                                                   | 92.39       | 34.57             | -95.26                 | -60.69     | -13         | -47.69      |
| 3                                                   | 135.64      | 31.17             | -95.26                 | -64.09     | -13         | -51.09      |
| 4                                                   | 178.29      | 24.75             | -95.26                 | -70.51     | -13         | -57.51      |
| 5                                                   | 325.57      | 33.4              | -95.26                 | -61.86     | -13         | -48.86      |
| 6                                                   | 552.42      | 31.57             | -95.26                 | -63.69     | -13         | -50.69      |

### Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), EIRP Value (dBm) = E (dBμV/m) - Correction Factor @ 3m.
2. Correction Factor (dB) =  $20\log(D) - 104.8$ ; where D is the measurement distance @3m.

|      |                  |                 |                |
|------|------------------|-----------------|----------------|
| Mode | TX channel 18900 | Frequency Range | Below 1000 MHz |
|------|------------------|-----------------|----------------|

| Antenna Polarity & Test Distance: Horizontal at 3 M |             |                   |                        |            |             |             |
|-----------------------------------------------------|-------------|-------------------|------------------------|------------|-------------|-------------|
| No.                                                 | Freq. (MHz) | Reading (dBμ V/m) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 41.95       | 33.97             | -95.26                 | -61.29     | -13         | -48.29      |
| 2                                                   | 101.44      | 35.36             | -95.26                 | -59.90     | -13         | -46.90      |
| 3                                                   | 156.06      | 26.98             | -95.26                 | -68.28     | -13         | -55.28      |
| 4                                                   | 188.15      | 32.56             | -95.26                 | -62.70     | -13         | -49.70      |
| 5                                                   | 314.95      | 31.22             | -95.26                 | -64.04     | -13         | -51.04      |
| 6                                                   | 438.85      | 29.28             | -95.26                 | -65.98     | -13         | -52.98      |
| Antenna Polarity & Test Distance: Vertical at 3 M   |             |                   |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBμ V/m) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 55.19       | 35.01             | -95.26                 | -60.25     | -13         | -47.25      |
| 2                                                   | 92.59       | 36.22             | -95.26                 | -59.04     | -13         | -46.04      |
| 3                                                   | 134.18      | 30.31             | -95.26                 | -64.95     | -13         | -51.95      |
| 4                                                   | 178.69      | 26.03             | -95.26                 | -69.23     | -13         | -56.23      |
| 5                                                   | 324.14      | 33.64             | -95.26                 | -61.62     | -13         | -48.62      |
| 6                                                   | 553.44      | 31.4              | -95.26                 | -63.86     | -13         | -50.86      |

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), EIRP Value (dBm) = E (dBμV/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = 20log(D) - 104.8; where D is the measurement distance @3m.

|      |                  |                 |                |
|------|------------------|-----------------|----------------|
| Mode | TX channel 19185 | Frequency Range | Below 1000 MHz |
|------|------------------|-----------------|----------------|

Antenna Polarity & Test Distance: Horizontal at 3 M

| No. | Freq.<br>(MHz) | Reading<br>(dBμ V/m) | Correction Factor<br>(dB) | EIRP<br>(dBm) | Limit<br>(dBm) | Margin (dB) |
|-----|----------------|----------------------|---------------------------|---------------|----------------|-------------|
| 1   | 40.83          | 34.82                | -95.26                    | -60.44        | -13            | -47.44      |
| 2   | 101.92         | 35.86                | -95.26                    | -59.40        | -13            | -46.40      |
| 3   | 156.89         | 26.46                | -95.26                    | -68.80        | -13            | -55.80      |
| 4   | 187.22         | 33.7                 | -95.26                    | -61.56        | -13            | -48.56      |
| 5   | 313.14         | 31.1                 | -95.26                    | -64.16        | -13            | -51.16      |
| 6   | 438.41         | 30.49                | -95.26                    | -64.77        | -13            | -51.77      |

Antenna Polarity & Test Distance: Vertical at 3 M

| No. | Freq.<br>(MHz) | Reading<br>(dBμ V/m) | Correction Factor<br>(dB) | EIRP<br>(dBm) | Limit<br>(dBm) | Margin (dB) |
|-----|----------------|----------------------|---------------------------|---------------|----------------|-------------|
| 1   | 56.96          | 34.74                | -95.26                    | -60.52        | -13            | -47.52      |
| 2   | 91.69          | 35.47                | -95.26                    | -59.79        | -13            | -46.79      |
| 3   | 134.92         | 30.82                | -95.26                    | -64.44        | -13            | -51.44      |
| 4   | 178.77         | 25.2                 | -95.26                    | -70.06        | -13            | -57.06      |
| 5   | 325.36         | 33.82                | -95.26                    | -61.44        | -13            | -48.44      |
| 6   | 553.26         | 32.72                | -95.26                    | -62.54        | -13            | -49.54      |

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), EIRP Value (dBm) = E (dBμV/m) - Correction Factor @ 3m.
2. Correction Factor (dB) =  $20\log(D) - 104.8$ ; where D is the measurement distance @3m.

## LTE Band 2: 5 MHz

|      |                  |                 |                |
|------|------------------|-----------------|----------------|
| Mode | TX channel 18625 | Frequency Range | Below 1000 MHz |
|------|------------------|-----------------|----------------|

| Antenna Polarity & Test Distance: Horizontal at 3 M |             |                   |                        |            |             |             |
|-----------------------------------------------------|-------------|-------------------|------------------------|------------|-------------|-------------|
| No.                                                 | Freq. (MHz) | Reading (dBμ V/m) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 40.81       | 34.57             | -95.26                 | -60.69     | -13         | -47.69      |
| 2                                                   | 100.7       | 34.07             | -95.26                 | -61.19     | -13         | -48.19      |
| 3                                                   | 156.65      | 28.21             | -95.26                 | -67.05     | -13         | -54.05      |
| 4                                                   | 188.66      | 33.06             | -95.26                 | -62.20     | -13         | -49.20      |
| 5                                                   | 314.47      | 31.18             | -95.26                 | -64.08     | -13         | -51.08      |
| 6                                                   | 439.12      | 29.54             | -95.26                 | -65.72     | -13         | -52.72      |
| Antenna Polarity & Test Distance: Vertical at 3 M   |             |                   |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBμ V/m) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 56.04       | 34.07             | -95.26                 | -61.19     | -13         | -48.19      |
| 2                                                   | 92.8        | 34.85             | -95.26                 | -60.41     | -13         | -47.41      |
| 3                                                   | 134.83      | 31.4              | -95.26                 | -63.86     | -13         | -50.86      |
| 4                                                   | 179.16      | 24.67             | -95.26                 | -70.59     | -13         | -57.59      |
| 5                                                   | 324.55      | 32.67             | -95.26                 | -62.59     | -13         | -49.59      |
| 6                                                   | 553.32      | 31.11             | -95.26                 | -64.15     | -13         | -51.15      |

### Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), EIRP Value (dBm) = E (dBμV/m) - Correction Factor @ 3m.
2. Correction Factor (dB) =  $20\log(D) - 104.8$ ; where D is the measurement distance @3m.



|      |                  |                 |                |
|------|------------------|-----------------|----------------|
| Mode | TX channel 18900 | Frequency Range | Below 1000 MHz |
|------|------------------|-----------------|----------------|

| Antenna Polarity & Test Distance: Horizontal at 3 M |             |                   |                        |            |             |             |
|-----------------------------------------------------|-------------|-------------------|------------------------|------------|-------------|-------------|
| No.                                                 | Freq. (MHz) | Reading (dBμ V/m) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 42          | 34.87             | -95.26                 | -60.39     | -13         | -47.39      |
| 2                                                   | 102.32      | 34.44             | -95.26                 | -60.82     | -13         | -47.82      |
| 3                                                   | 156.35      | 27.93             | -95.26                 | -67.33     | -13         | -54.33      |
| 4                                                   | 188.94      | 33.92             | -95.26                 | -61.34     | -13         | -48.34      |
| 5                                                   | 314.42      | 31.11             | -95.26                 | -64.15     | -13         | -51.15      |
| 6                                                   | 438.7       | 29.19             | -95.26                 | -66.07     | -13         | -53.07      |
| Antenna Polarity & Test Distance: Vertical at 3 M   |             |                   |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBμ V/m) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 56.25       | 35.34             | -95.26                 | -59.92     | -13         | -46.92      |
| 2                                                   | 92.3        | 35.24             | -95.26                 | -60.02     | -13         | -47.02      |
| 3                                                   | 135.04      | 31.25             | -95.26                 | -64.01     | -13         | -51.01      |
| 4                                                   | 177.94      | 25.32             | -95.26                 | -69.94     | -13         | -56.94      |
| 5                                                   | 326.06      | 32.33             | -95.26                 | -62.93     | -13         | -49.93      |
| 6                                                   | 553.71      | 32.49             | -95.26                 | -62.77     | -13         | -49.77      |

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), EIRP Value (dBm) = E (dBμV/m) - Correction Factor @ 3m.
2. Correction Factor (dB) =  $20\log(D) - 104.8$ ; where D is the measurement distance @3m.

|      |                  |                 |                |
|------|------------------|-----------------|----------------|
| Mode | TX channel 19175 | Frequency Range | Below 1000 MHz |
|------|------------------|-----------------|----------------|

| Antenna Polarity & Test Distance: Horizontal at 3 M |             |                        |                        |            |             |             |
|-----------------------------------------------------|-------------|------------------------|------------------------|------------|-------------|-------------|
| No.                                                 | Freq. (MHz) | Reading (dB $\mu$ V/m) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 41.39       | 34.13                  | -95.26                 | -61.13     | -13         | -48.13      |
| 2                                                   | 101.54      | 35.38                  | -95.26                 | -59.88     | -13         | -46.88      |
| 3                                                   | 156.06      | 27.64                  | -95.26                 | -67.62     | -13         | -54.62      |
| 4                                                   | 188.69      | 32.71                  | -95.26                 | -62.55     | -13         | -49.55      |
| 5                                                   | 313.47      | 31.65                  | -95.26                 | -63.61     | -13         | -50.61      |
| 6                                                   | 439.19      | 29.78                  | -95.26                 | -65.48     | -13         | -52.48      |
| Antenna Polarity & Test Distance: Vertical at 3 M   |             |                        |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dB $\mu$ V/m) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 56.72       | 35.03                  | -95.26                 | -60.23     | -13         | -47.23      |
| 2                                                   | 92.68       | 35.82                  | -95.26                 | -59.44     | -13         | -46.44      |
| 3                                                   | 135.29      | 31.36                  | -95.26                 | -63.90     | -13         | -50.90      |
| 4                                                   | 177.69      | 25.37                  | -95.26                 | -69.89     | -13         | -56.89      |
| 5                                                   | 325.89      | 33.79                  | -95.26                 | -61.47     | -13         | -48.47      |
| 6                                                   | 553.79      | 32.4                   | -95.26                 | -62.86     | -13         | -49.86      |

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), EIRP Value (dBm) = E (dB $\mu$ V/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = 20log(D) - 104.8; where D is the measurement distance @3m.

## LTE Band 2: 10 MHz

|      |                  |                 |                |
|------|------------------|-----------------|----------------|
| Mode | TX channel 18650 | Frequency Range | Below 1000 MHz |
|------|------------------|-----------------|----------------|

| Antenna Polarity & Test Distance: Horizontal at 3 M |             |                   |                        |            |             |             |
|-----------------------------------------------------|-------------|-------------------|------------------------|------------|-------------|-------------|
| No.                                                 | Freq. (MHz) | Reading (dBμ V/m) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 41.41       | 34.36             | -95.26                 | -60.90     | -13         | -47.90      |
| 2                                                   | 100.67      | 34                | -95.26                 | -61.26     | -13         | -48.26      |
| 3                                                   | 157.5       | 27.22             | -95.26                 | -68.04     | -13         | -55.04      |
| 4                                                   | 188.24      | 32.98             | -95.26                 | -62.28     | -13         | -49.28      |
| 5                                                   | 314.19      | 31.26             | -95.26                 | -64.00     | -13         | -51.00      |
| 6                                                   | 440.04      | 29.86             | -95.26                 | -65.40     | -13         | -52.40      |
| Antenna Polarity & Test Distance: Vertical at 3 M   |             |                   |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBμ V/m) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 56.27       | 35.45             | -95.26                 | -59.81     | -13         | -46.81      |
| 2                                                   | 91.57       | 35.69             | -95.26                 | -59.57     | -13         | -46.57      |
| 3                                                   | 134.78      | 31.24             | -95.26                 | -64.02     | -13         | -51.02      |
| 4                                                   | 178.01      | 25.74             | -95.26                 | -69.52     | -13         | -56.52      |
| 5                                                   | 325.8       | 34.05             | -95.26                 | -61.21     | -13         | -48.21      |
| 6                                                   | 552.32      | 32.74             | -95.26                 | -62.52     | -13         | -49.52      |

### Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), EIRP Value (dBm) = E (dBμV/m) - Correction Factor @ 3m.
2. Correction Factor (dB) =  $20\log(D) - 104.8$ ; where D is the measurement distance @3m.

|      |                  |                 |                |
|------|------------------|-----------------|----------------|
| Mode | TX channel 18900 | Frequency Range | Below 1000 MHz |
|------|------------------|-----------------|----------------|

| Antenna Polarity & Test Distance: Horizontal at 3 M |             |                   |                        |            |             |             |
|-----------------------------------------------------|-------------|-------------------|------------------------|------------|-------------|-------------|
| No.                                                 | Freq. (MHz) | Reading (dBμ V/m) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 42.12       | 34.3              | -95.26                 | -60.96     | -13         | -47.96      |
| 2                                                   | 101.28      | 34.66             | -95.26                 | -60.60     | -13         | -47.60      |
| 3                                                   | 156.25      | 27.93             | -95.26                 | -67.33     | -13         | -54.33      |
| 4                                                   | 187.58      | 32.69             | -95.26                 | -62.57     | -13         | -49.57      |
| 5                                                   | 314.55      | 30.76             | -95.26                 | -64.50     | -13         | -51.50      |
| 6                                                   | 438.81      | 29.15             | -95.26                 | -66.11     | -13         | -53.11      |
| Antenna Polarity & Test Distance: Vertical at 3 M   |             |                   |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBμ V/m) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 55.81       | 34.44             | -95.26                 | -60.82     | -13         | -47.82      |
| 2                                                   | 91.67       | 35.27             | -95.26                 | -59.99     | -13         | -46.99      |
| 3                                                   | 134.54      | 30.2              | -95.26                 | -65.06     | -13         | -52.06      |
| 4                                                   | 178.18      | 25.5              | -95.26                 | -69.76     | -13         | -56.76      |
| 5                                                   | 325.49      | 32.59             | -95.26                 | -62.67     | -13         | -49.67      |
| 6                                                   | 552.75      | 32.09             | -95.26                 | -63.17     | -13         | -50.17      |

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), EIRP Value (dBm) = E (dBμV/m) - Correction Factor @ 3m.
2. Correction Factor (dB) =  $20\log(D) - 104.8$ ; where D is the measurement distance @3m.

|      |                  |                 |                |
|------|------------------|-----------------|----------------|
| Mode | TX channel 19150 | Frequency Range | Below 1000 MHz |
|------|------------------|-----------------|----------------|

**Antenna Polarity & Test Distance: Horizontal at 3 M**

| No. | Freq.<br>(MHz) | Reading<br>(dBμ V/m) | Correction Factor<br>(dB) | EIRP<br>(dBm) | Limit<br>(dBm) | Margin (dB) |
|-----|----------------|----------------------|---------------------------|---------------|----------------|-------------|
| 1   | 41.09          | 34.16                | -95.26                    | -61.10        | -13            | -48.10      |
| 2   | 102.41         | 35.07                | -95.26                    | -60.19        | -13            | -47.19      |
| 3   | 155.69         | 27.96                | -95.26                    | -67.30        | -13            | -54.30      |
| 4   | 187.68         | 33.14                | -95.26                    | -62.12        | -13            | -49.12      |
| 5   | 314.18         | 31.15                | -95.26                    | -64.11        | -13            | -51.11      |
| 6   | 438.86         | 30.25                | -95.26                    | -65.01        | -13            | -52.01      |

**Antenna Polarity & Test Distance: Vertical at 3 M**

| No. | Freq.<br>(MHz) | Reading<br>(dBμ V/m) | Correction Factor<br>(dB) | EIRP<br>(dBm) | Limit<br>(dBm) | Margin (dB) |
|-----|----------------|----------------------|---------------------------|---------------|----------------|-------------|
| 1   | 55.41          | 35.01                | -95.26                    | -60.25        | -13            | -47.25      |
| 2   | 92.47          | 34.54                | -95.26                    | -60.72        | -13            | -47.72      |
| 3   | 134.87         | 30.32                | -95.26                    | -64.94        | -13            | -51.94      |
| 4   | 179.21         | 24.54                | -95.26                    | -70.72        | -13            | -57.72      |
| 5   | 324.91         | 32.29                | -95.26                    | -62.97        | -13            | -49.97      |
| 6   | 552.96         | 32.16                | -95.26                    | -63.10        | -13            | -50.10      |

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), EIRP Value (dBm) = E (dBμV/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = 20log(D) - 104.8; where D is the measurement distance @3m.

## LTE Band 2: 15 MHz

|      |                  |                 |                |
|------|------------------|-----------------|----------------|
| Mode | TX channel 18675 | Frequency Range | Below 1000 MHz |
|------|------------------|-----------------|----------------|

| Antenna Polarity & Test Distance: Horizontal at 3 M |             |                   |                        |            |             |             |
|-----------------------------------------------------|-------------|-------------------|------------------------|------------|-------------|-------------|
| No.                                                 | Freq. (MHz) | Reading (dBμ V/m) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 40.41       | 33.96             | -95.26                 | -61.30     | -13         | -48.30      |
| 2                                                   | 102.04      | 35.7              | -95.26                 | -59.56     | -13         | -46.56      |
| 3                                                   | 155.66      | 26.51             | -95.26                 | -68.75     | -13         | -55.75      |
| 4                                                   | 187.61      | 34.15             | -95.26                 | -61.11     | -13         | -48.11      |
| 5                                                   | 314.07      | 32.25             | -95.26                 | -63.01     | -13         | -50.01      |
| 6                                                   | 438.52      | 30.61             | -95.26                 | -64.65     | -13         | -51.65      |
| Antenna Polarity & Test Distance: Vertical at 3 M   |             |                   |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBμ V/m) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 55.89       | 35.34             | -95.26                 | -59.92     | -13         | -46.92      |
| 2                                                   | 91.87       | 36.05             | -95.26                 | -59.21     | -13         | -46.21      |
| 3                                                   | 135.35      | 30.62             | -95.26                 | -64.64     | -13         | -51.64      |
| 4                                                   | 178.34      | 24.81             | -95.26                 | -70.45     | -13         | -57.45      |
| 5                                                   | 324.82      | 34.07             | -95.26                 | -61.19     | -13         | -48.19      |
| 6                                                   | 553.93      | 32.98             | -95.26                 | -62.28     | -13         | -49.28      |

### Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), EIRP Value (dBm) = E (dBμV/m) - Correction Factor @ 3m.
2. Correction Factor (dB) =  $20\log(D) - 104.8$ ; where D is the measurement distance @3m.

|      |                  |                 |                |
|------|------------------|-----------------|----------------|
| Mode | TX channel 18900 | Frequency Range | Below 1000 MHz |
|------|------------------|-----------------|----------------|

| Antenna Polarity & Test Distance: Horizontal at 3 M |             |                   |                        |            |             |             |
|-----------------------------------------------------|-------------|-------------------|------------------------|------------|-------------|-------------|
| No.                                                 | Freq. (MHz) | Reading (dBμ V/m) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 42.14       | 33.7              | -95.26                 | -61.56     | -13         | -48.56      |
| 2                                                   | 101.82      | 34.15             | -95.26                 | -61.11     | -13         | -48.11      |
| 3                                                   | 156.17      | 26.94             | -95.26                 | -68.32     | -13         | -55.32      |
| 4                                                   | 187.79      | 32.62             | -95.26                 | -62.64     | -13         | -49.64      |
| 5                                                   | 314.3       | 30.48             | -95.26                 | -64.78     | -13         | -51.78      |
| 6                                                   | 438.64      | 30.28             | -95.26                 | -64.98     | -13         | -51.98      |
| Antenna Polarity & Test Distance: Vertical at 3 M   |             |                   |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBμ V/m) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 55.62       | 35.02             | -95.26                 | -60.24     | -13         | -47.24      |
| 2                                                   | 92.8        | 35.75             | -95.26                 | -59.51     | -13         | -46.51      |
| 3                                                   | 134.71      | 30.43             | -95.26                 | -64.83     | -13         | -51.83      |
| 4                                                   | 178.55      | 24.77             | -95.26                 | -70.49     | -13         | -57.49      |
| 5                                                   | 325.88      | 33.66             | -95.26                 | -61.60     | -13         | -48.60      |
| 6                                                   | 552.65      | 31.94             | -95.26                 | -63.32     | -13         | -50.32      |

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), EIRP Value (dBm) = E (dBμV/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = 20log(D) - 104.8; where D is the measurement distance @3m.

|      |                  |                 |                |
|------|------------------|-----------------|----------------|
| Mode | TX channel 19125 | Frequency Range | Below 1000 MHz |
|------|------------------|-----------------|----------------|

| Antenna Polarity & Test Distance: Horizontal at 3 M |             |                        |                        |            |             |             |
|-----------------------------------------------------|-------------|------------------------|------------------------|------------|-------------|-------------|
| No.                                                 | Freq. (MHz) | Reading (dB $\mu$ V/m) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 41.03       | 33.78                  | -95.26                 | -61.48     | -13         | -48.48      |
| 2                                                   | 101.46      | 34.82                  | -95.26                 | -60.44     | -13         | -47.44      |
| 3                                                   | 155.63      | 27.88                  | -95.26                 | -67.38     | -13         | -54.38      |
| 4                                                   | 188.47      | 33.28                  | -95.26                 | -61.98     | -13         | -48.98      |
| 5                                                   | 314.36      | 32                     | -95.26                 | -63.26     | -13         | -50.26      |
| 6                                                   | 438.62      | 29.13                  | -95.26                 | -66.13     | -13         | -53.13      |
| Antenna Polarity & Test Distance: Vertical at 3 M   |             |                        |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dB $\mu$ V/m) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 55.21       | 34.15                  | -95.26                 | -61.11     | -13         | -48.11      |
| 2                                                   | 93.22       | 35.67                  | -95.26                 | -59.59     | -13         | -46.59      |
| 3                                                   | 135.1       | 30.06                  | -95.26                 | -65.20     | -13         | -52.20      |
| 4                                                   | 178.83      | 26.02                  | -95.26                 | -69.24     | -13         | -56.24      |
| 5                                                   | 325.71      | 32.64                  | -95.26                 | -62.62     | -13         | -49.62      |
| 6                                                   | 553.19      | 31.86                  | -95.26                 | -63.40     | -13         | -50.40      |

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), EIRP Value (dBm) = E (dB $\mu$ V/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = 20log(D) - 104.8; where D is the measurement distance @3m.



## LTE Band 2: 20 MHz

|      |                  |                 |                |
|------|------------------|-----------------|----------------|
| Mode | TX channel 18700 | Frequency Range | Below 1000 MHz |
|------|------------------|-----------------|----------------|

| Antenna Polarity & Test Distance: Horizontal at 3 M |             |                   |                        |            |             |             |
|-----------------------------------------------------|-------------|-------------------|------------------------|------------|-------------|-------------|
| No.                                                 | Freq. (MHz) | Reading (dBμ V/m) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 40.42       | 33.93             | -95.26                 | -61.33     | -13         | -48.33      |
| 2                                                   | 101.63      | 34.11             | -95.26                 | -61.15     | -13         | -48.15      |
| 3                                                   | 157.09      | 26.95             | -95.26                 | -68.31     | -13         | -55.31      |
| 4                                                   | 188.71      | 32.85             | -95.26                 | -62.41     | -13         | -49.41      |
| 5                                                   | 314.29      | 31.02             | -95.26                 | -64.24     | -13         | -51.24      |
| 6                                                   | 438.63      | 30.66             | -95.26                 | -64.60     | -13         | -51.60      |
| Antenna Polarity & Test Distance: Vertical at 3 M   |             |                   |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBμ V/m) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 55.51       | 35.62             | -95.26                 | -59.64     | -13         | -46.64      |
| 2                                                   | 93.19       | 34.47             | -95.26                 | -60.79     | -13         | -47.79      |
| 3                                                   | 136.01      | 31.58             | -95.26                 | -63.68     | -13         | -50.68      |
| 4                                                   | 179.2       | 26.06             | -95.26                 | -69.20     | -13         | -56.20      |
| 5                                                   | 325.51      | 33.93             | -95.26                 | -61.33     | -13         | -48.33      |
| 6                                                   | 553.68      | 32.26             | -95.26                 | -63.00     | -13         | -50.00      |

### Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), EIRP Value (dBm) = E (dBμV/m) - Correction Factor @ 3m.
2. Correction Factor (dB) =  $20\log(D) - 104.8$ ; where D is the measurement distance @3m.

|      |                  |                 |                |
|------|------------------|-----------------|----------------|
| Mode | TX channel 18900 | Frequency Range | Below 1000 MHz |
|------|------------------|-----------------|----------------|

| Antenna Polarity & Test Distance: Horizontal at 3 M |             |                        |                        |            |             |             |
|-----------------------------------------------------|-------------|------------------------|------------------------|------------|-------------|-------------|
| No.                                                 | Freq. (MHz) | Reading (dB $\mu$ V/m) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 41.94       | 34.44                  | -95.26                 | -60.82     | -13         | -47.82      |
| 2                                                   | 102.1       | 35.38                  | -95.26                 | -59.88     | -13         | -46.88      |
| 3                                                   | 156.02      | 27.69                  | -95.26                 | -67.57     | -13         | -54.57      |
| 4                                                   | 188.28      | 33.5                   | -95.26                 | -61.76     | -13         | -48.76      |
| 5                                                   | 314.82      | 31.79                  | -95.26                 | -63.47     | -13         | -50.47      |
| 6                                                   | 438.37      | 28.79                  | -95.26                 | -66.47     | -13         | -53.47      |
| Antenna Polarity & Test Distance: Vertical at 3 M   |             |                        |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dB $\mu$ V/m) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 57.1        | 35.45                  | -95.26                 | -59.81     | -13         | -46.81      |
| 2                                                   | 91.5        | 34.61                  | -95.26                 | -60.65     | -13         | -47.65      |
| 3                                                   | 135.92      | 29.88                  | -95.26                 | -65.38     | -13         | -52.38      |
| 4                                                   | 178.63      | 24.45                  | -95.26                 | -70.81     | -13         | -57.81      |
| 5                                                   | 324.15      | 34.02                  | -95.26                 | -61.24     | -13         | -48.24      |
| 6                                                   | 553.31      | 31.93                  | -95.26                 | -63.33     | -13         | -50.33      |

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), EIRP Value (dBm) = E (dB $\mu$ V/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = 20log(D) - 104.8; where D is the measurement distance @3m.

|      |                  |                 |                |
|------|------------------|-----------------|----------------|
| Mode | TX channel 19100 | Frequency Range | Below 1000 MHz |
|------|------------------|-----------------|----------------|

| Antenna Polarity & Test Distance: Horizontal at 3 M |             |                   |                        |            |             |             |
|-----------------------------------------------------|-------------|-------------------|------------------------|------------|-------------|-------------|
| No.                                                 | Freq. (MHz) | Reading (dBμ V/m) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 40.6        | 34.84             | -95.26                 | -60.42     | -13         | -47.42      |
| 2                                                   | 101.64      | 35.33             | -95.26                 | -59.93     | -13         | -46.93      |
| 3                                                   | 155.67      | 27.74             | -95.26                 | -67.52     | -13         | -54.52      |
| 4                                                   | 187.28      | 32.3              | -95.26                 | -62.96     | -13         | -49.96      |
| 5                                                   | 314.84      | 31.56             | -95.26                 | -63.70     | -13         | -50.70      |
| 6                                                   | 440.1       | 30.23             | -95.26                 | -65.03     | -13         | -52.03      |
| Antenna Polarity & Test Distance: Vertical at 3 M   |             |                   |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBμ V/m) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 56.47       | 34.52             | -95.26                 | -60.74     | -13         | -47.74      |
| 2                                                   | 92.45       | 34.83             | -95.26                 | -60.43     | -13         | -47.43      |
| 3                                                   | 134.93      | 30.86             | -95.26                 | -64.40     | -13         | -51.40      |
| 4                                                   | 179.23      | 25.65             | -95.26                 | -69.61     | -13         | -56.61      |
| 5                                                   | 325.89      | 33.84             | -95.26                 | -61.42     | -13         | -48.42      |
| 6                                                   | 552.65      | 32.15             | -95.26                 | -63.11     | -13         | -50.11      |

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), EIRP Value (dBm) = E (dBμV/m) - Correction Factor @ 3m.
2. Correction Factor (dB) =  $20\log(D) - 104.8$ ; where D is the measurement distance @3m.

ABOVE 1GHz

WCDMA B2:

|      |                 |                 |                |
|------|-----------------|-----------------|----------------|
| Mode | TX channel 9262 | Frequency Range | Above 1000 MHz |
|------|-----------------|-----------------|----------------|

| Antenna Polarity & Test Distance: Horizontal at 3 M |                |                      |                           |               |                |             |
|-----------------------------------------------------|----------------|----------------------|---------------------------|---------------|----------------|-------------|
| No.                                                 | Freq.<br>(MHz) | Reading<br>(dBμ V/m) | Correction Factor<br>(dB) | EIRP<br>(dBm) | Limit<br>(dBm) | Margin (dB) |
| 1                                                   | 3704.8         | 35.8                 | -95.26                    | -59.46        | -13            | -46.46      |
| 2                                                   | 5557.2         | 44.05                | -95.26                    | -51.21        | -13            | -38.21      |
| 3                                                   | 7409.6         | 65.19                | -95.26                    | -30.07        | -13            | -17.07      |
| 4                                                   | 9262           | 56.12                | -95.26                    | -39.14        | -13            | -26.14      |
| Antenna Polarity & Test Distance: Vertical at 3 M   |                |                      |                           |               |                |             |
| No.                                                 | Freq.<br>(MHz) | Reading<br>(dBμ V/m) | Correction Factor<br>(dB) | EIRP<br>(dBm) | Limit<br>(dBm) | Margin (dB) |
| 1                                                   | 3704.8         | 37.01                | -95.26                    | -58.25        | -13            | -45.25      |
| 2                                                   | 5557.2         | 47.07                | -95.26                    | -48.19        | -13            | -35.19      |
| 3                                                   | 7409.6         | 63.7                 | -95.26                    | -31.56        | -13            | -18.56      |
| 4                                                   | 9262           | 56.76                | -95.26                    | -38.50        | -13            | -25.50      |

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), EIRP Value (dBm) = E (dBμV/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = 20log(D) – 104.8; where D is the measurement distance @3m.

|      |                 |                 |                |
|------|-----------------|-----------------|----------------|
| Mode | TX channel 9400 | Frequency Range | Above 1000 MHz |
|------|-----------------|-----------------|----------------|

| Antenna Polarity & Test Distance: Horizontal at 3 M |             |                   |                        |            |             |             |
|-----------------------------------------------------|-------------|-------------------|------------------------|------------|-------------|-------------|
| No.                                                 | Freq. (MHz) | Reading (dBμ V/m) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 3760        | 36.02             | -95.26                 | -59.24     | -13         | -46.24      |
| 2                                                   | 5640        | 45.15             | -95.26                 | -50.11     | -13         | -37.11      |
| 3                                                   | 7520        | 65.78             | -95.26                 | -29.48     | -13         | -16.48      |
| 4                                                   | 9400        | 55.93             | -95.26                 | -39.33     | -13         | -26.33      |
| Antenna Polarity & Test Distance: Vertical at 3 M   |             |                   |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBμ V/m) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 3760        | 37.69             | -95.26                 | -57.57     | -13         | -44.57      |
| 2                                                   | 5640        | 46.61             | -95.26                 | -48.65     | -13         | -35.65      |
| 3                                                   | 7520        | 64.81             | -95.26                 | -30.45     | -13         | -17.45      |
| 4                                                   | 9400        | 57.43             | -95.26                 | -37.83     | -13         | -24.83      |

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), EIRP Value (dBm) = E (dBμV/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = 20log(D) – 104.8; where D is the measurement distance @3m.

|      |                 |                 |                |
|------|-----------------|-----------------|----------------|
| Mode | TX channel 9538 | Frequency Range | Above 1000 MHz |
|------|-----------------|-----------------|----------------|

| Antenna Polarity & Test Distance: Horizontal at 3 M |             |                   |                        |            |             |             |
|-----------------------------------------------------|-------------|-------------------|------------------------|------------|-------------|-------------|
| No.                                                 | Freq. (MHz) | Reading (dBμ V/m) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 3815.2      | 35.82             | -95.26                 | -59.44     | -13         | -46.44      |
| 2                                                   | 5722.8      | 44.74             | -95.26                 | -50.52     | -13         | -37.52      |
| 3                                                   | 7630.4      | 65.12             | -95.26                 | -30.14     | -13         | -17.14      |
| 4                                                   | 9538        | 55.79             | -95.26                 | -39.47     | -13         | -26.47      |
| Antenna Polarity & Test Distance: Vertical at 3 M   |             |                   |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBμ V/m) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 3815.2      | 38.44             | -95.26                 | -56.82     | -13         | -43.82      |
| 2                                                   | 5722.8      | 45.46             | -95.26                 | -49.80     | -13         | -36.80      |
| 3                                                   | 7630.4      | 64.82             | -95.26                 | -30.44     | -13         | -17.44      |
| 4                                                   | 9538        | 57.77             | -95.26                 | -37.49     | -13         | -24.49      |

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), EIRP Value (dBm) = E (dBμV/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = 20log(D) – 104.8; where D is the measurement distance @3m.

## LTE Band 2: 1.4 MHz

|      |                  |                 |                |
|------|------------------|-----------------|----------------|
| Mode | TX channel 18607 | Frequency Range | Above 1000 MHz |
|------|------------------|-----------------|----------------|

| Antenna Polarity & Test Distance: Horizontal at 3 M |             |                   |                        |            |             |             |
|-----------------------------------------------------|-------------|-------------------|------------------------|------------|-------------|-------------|
| No.                                                 | Freq. (MHz) | Reading (dBμ V/m) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 3701.4      | 36.75             | -95.26                 | -58.51     | -13         | -45.51      |
| 2                                                   | 5552.1      | 44.48             | -95.26                 | -50.78     | -13         | -37.78      |
| 3                                                   | 7402.8      | 69.39             | -95.26                 | -25.87     | -13         | -12.87      |
| 4                                                   | 9253.5      | 60.5              | -95.26                 | -34.76     | -13         | -21.76      |
| Antenna Polarity & Test Distance: Vertical at 3 M   |             |                   |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBμ V/m) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 3701.4      | 37.88             | -95.26                 | -57.38     | -13         | -44.38      |
| 2                                                   | 5552.1      | 46.3              | -95.26                 | -48.96     | -13         | -35.96      |
| 3                                                   | 7402.8      | 69.05             | -95.26                 | -26.21     | -13         | -13.21      |
| 4                                                   | 9253.5      | 62.09             | -95.26                 | -33.17     | -13         | -20.17      |

### Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), EIRP Value (dBm) = E (dBμV/m) - Correction Factor @ 3m.
2. Correction Factor (dB) =  $20\log(D) - 104.8$ ; where D is the measurement distance @3m.

|      |                  |                 |                |
|------|------------------|-----------------|----------------|
| Mode | TX channel 18900 | Frequency Range | Above 1000 MHz |
|------|------------------|-----------------|----------------|

Antenna Polarity & Test Distance: Horizontal at 3 M

| No. | Freq.<br>(MHz) | Reading<br>(dB $\mu$ V/m) | Correction Factor<br>(dB) | EIRP<br>(dBm) | Limit<br>(dBm) | Margin (dB) |
|-----|----------------|---------------------------|---------------------------|---------------|----------------|-------------|
| 1   | 3760           | 37.58                     | -95.26                    | -57.68        | -13            | -44.68      |
| 2   | 5640           | 43.7                      | -95.26                    | -51.56        | -13            | -38.56      |
| 3   | 7520           | 69.8                      | -95.26                    | -25.46        | -13            | -12.46      |
| 4   | 9400           | 60.2                      | -95.26                    | -35.06        | -13            | -22.06      |

Antenna Polarity & Test Distance: Vertical at 3 M

| No. | Freq.<br>(MHz) | Reading<br>(dB $\mu$ V/m) | Correction Factor<br>(dB) | EIRP<br>(dBm) | Limit<br>(dBm) | Margin (dB) |
|-----|----------------|---------------------------|---------------------------|---------------|----------------|-------------|
| 1   | 3760           | 38.6                      | -95.26                    | -56.66        | -13            | -43.66      |
| 2   | 5640           | 46.3                      | -95.26                    | -48.96        | -13            | -35.96      |
| 3   | 7520           | 70                        | -95.26                    | -25.26        | -13            | -12.26      |
| 4   | 9400           | 62.9                      | -95.26                    | -32.36        | -13            | -19.36      |

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), EIRP Value (dBm) = E (dB $\mu$ V/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = 20log(D) - 104.8; where D is the measurement distance @3m.



|      |                  |                 |                |
|------|------------------|-----------------|----------------|
| Mode | TX channel 19193 | Frequency Range | Above 1000 MHz |
|------|------------------|-----------------|----------------|

| Antenna Polarity & Test Distance: Horizontal at 3 M |             |                   |                        |            |             |             |
|-----------------------------------------------------|-------------|-------------------|------------------------|------------|-------------|-------------|
| No.                                                 | Freq. (MHz) | Reading (dBμ V/m) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 3818.6      | 37.12             | -95.26                 | -58.14     | -13         | -45.14      |
| 2                                                   | 5727.9      | 43.16             | -95.26                 | -52.10     | -13         | -39.10      |
| 3                                                   | 7637.2      | 69.82             | -95.26                 | -25.44     | -13         | -12.44      |
| 4                                                   | 9546.5      | 59.56             | -95.26                 | -35.70     | -13         | -22.70      |
| Antenna Polarity & Test Distance: Vertical at 3 M   |             |                   |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBμ V/m) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 3818.6      | 38.63             | -95.26                 | -56.63     | -13         | -43.63      |
| 2                                                   | 5727.9      | 46.82             | -95.26                 | -48.44     | -13         | -35.44      |
| 3                                                   | 7637.2      | 70.3              | -95.26                 | -24.96     | -13         | -11.96      |
| 4                                                   | 9546.5      | 63.85             | -95.26                 | -31.41     | -13         | -18.41      |

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), EIRP Value (dBm) = E (dBμV/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = 20log(D) – 104.8; where D is the measurement distance @3m.

## LTE Band 2: 3 MHz

|      |                  |                 |                |
|------|------------------|-----------------|----------------|
| Mode | TX channel 18615 | Frequency Range | Above 1000 MHz |
|------|------------------|-----------------|----------------|

| Antenna Polarity & Test Distance: Horizontal at 3 M |             |                   |                        |            |             |             |
|-----------------------------------------------------|-------------|-------------------|------------------------|------------|-------------|-------------|
| No.                                                 | Freq. (MHz) | Reading (dBμ V/m) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 3703        | 36.66             | -95.26                 | -58.60     | -13         | -45.60      |
| 2                                                   | 5554.5      | 43.49             | -95.26                 | -51.77     | -13         | -38.77      |
| 3                                                   | 7406        | 69.08             | -95.26                 | -26.18     | -13         | -13.18      |
| 4                                                   | 9257.5      | 61.18             | -95.26                 | -34.08     | -13         | -21.08      |
| Antenna Polarity & Test Distance: Vertical at 3 M   |             |                   |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBμ V/m) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 3703        | 37.95             | -95.26                 | -57.31     | -13         | -44.31      |
| 2                                                   | 5554.5      | 46.38             | -95.26                 | -48.88     | -13         | -35.88      |
| 3                                                   | 7406        | 69.01             | -95.26                 | -26.25     | -13         | -13.25      |
| 4                                                   | 9257.5      | 62.51             | -95.26                 | -32.75     | -13         | -19.75      |

### Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), EIRP Value (dBm) = E (dBμV/m) - Correction Factor @ 3m.
2. Correction Factor (dB) =  $20\log(D) - 104.8$ ; where D is the measurement distance @3m.

|      |                  |                 |                |
|------|------------------|-----------------|----------------|
| Mode | TX channel 18900 | Frequency Range | Above 1000 MHz |
|------|------------------|-----------------|----------------|

| Antenna Polarity & Test Distance: Horizontal at 3 M |             |                   |                        |            |             |             |
|-----------------------------------------------------|-------------|-------------------|------------------------|------------|-------------|-------------|
| No.                                                 | Freq. (MHz) | Reading (dBμ V/m) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 3760        | 37.89             | -95.26                 | -57.37     | -13         | -44.37      |
| 2                                                   | 5640        | 44.33             | -95.26                 | -50.93     | -13         | -37.93      |
| 3                                                   | 7520        | 69.72             | -95.26                 | -25.54     | -13         | -12.54      |
| 4                                                   | 9400        | 61.14             | -95.26                 | -34.12     | -13         | -21.12      |
| Antenna Polarity & Test Distance: Vertical at 3 M   |             |                   |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBμ V/m) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 3760        | 38.97             | -95.26                 | -56.29     | -13         | -43.29      |
| 2                                                   | 5640        | 46                | -95.26                 | -49.26     | -13         | -36.26      |
| 3                                                   | 7520        | 70.78             | -95.26                 | -24.48     | -13         | -11.48      |
| 4                                                   | 9400        | 63.14             | -95.26                 | -32.12     | -13         | -19.12      |

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), EIRP Value (dBm) = E (dBμV/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = 20log(D) – 104.8; where D is the measurement distance @3m.

|      |                  |                 |                |
|------|------------------|-----------------|----------------|
| Mode | TX channel 19185 | Frequency Range | Above 1000 MHz |
|------|------------------|-----------------|----------------|

| Antenna Polarity & Test Distance: Horizontal at 3 M |             |                   |                        |            |             |             |
|-----------------------------------------------------|-------------|-------------------|------------------------|------------|-------------|-------------|
| No.                                                 | Freq. (MHz) | Reading (dBμ V/m) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 3817        | 37.17             | -95.26                 | -58.09     | -13         | -45.09      |
| 2                                                   | 5725.5      | 44.26             | -95.26                 | -51.00     | -13         | -38.00      |
| 3                                                   | 7634        | 69.53             | -95.26                 | -25.73     | -13         | -12.73      |
| 4                                                   | 9542.5      | 59.77             | -95.26                 | -35.49     | -13         | -22.49      |
| Antenna Polarity & Test Distance: Vertical at 3 M   |             |                   |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBμ V/m) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 3817        | 39.54             | -95.26                 | -55.72     | -13         | -42.72      |
| 2                                                   | 5725.5      | 46.57             | -95.26                 | -48.69     | -13         | -35.69      |
| 3                                                   | 7634        | 70.36             | -95.26                 | -24.90     | -13         | -11.90      |
| 4                                                   | 9542.5      | 62.91             | -95.26                 | -32.35     | -13         | -19.35      |

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), EIRP Value (dBm) = E (dBμV/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = 20log(D) – 104.8; where D is the measurement distance @3m.

## LTE Band 2: 5 MHz

|      |                  |                 |                |
|------|------------------|-----------------|----------------|
| Mode | TX channel 18625 | Frequency Range | Above 1000 MHz |
|------|------------------|-----------------|----------------|

| Antenna Polarity & Test Distance: Horizontal at 3 M |             |                   |                        |            |             |             |
|-----------------------------------------------------|-------------|-------------------|------------------------|------------|-------------|-------------|
| No.                                                 | Freq. (MHz) | Reading (dBμ V/m) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 3705        | 38.35             | -95.26                 | -56.91     | -13         | -43.91      |
| 2                                                   | 5557.5      | 44.21             | -95.26                 | -51.05     | -13         | -38.05      |
| 3                                                   | 7410        | 70.05             | -95.26                 | -25.21     | -13         | -12.21      |
| 4                                                   | 9262.5      | 60.06             | -95.26                 | -35.20     | -13         | -22.20      |
| Antenna Polarity & Test Distance: Vertical at 3 M   |             |                   |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBμ V/m) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 3705        | 38.2              | -95.26                 | -57.06     | -13         | -44.06      |
| 2                                                   | 5557.5      | 46.88             | -95.26                 | -48.38     | -13         | -35.38      |
| 3                                                   | 7410        | 70.55             | -95.26                 | -24.71     | -13         | -11.71      |
| 4                                                   | 9262.5      | 63.4              | -95.26                 | -31.86     | -13         | -18.86      |

### Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), EIRP Value (dBm) = E (dBμV/m) - Correction Factor @ 3m.
2. Correction Factor (dB) =  $20\log(D) - 104.8$ ; where D is the measurement distance @3m.

|      |                  |                 |                |
|------|------------------|-----------------|----------------|
| Mode | TX channel 18900 | Frequency Range | Above 1000 MHz |
|------|------------------|-----------------|----------------|

| Antenna Polarity & Test Distance: Horizontal at 3 M |             |                   |                        |            |             |             |
|-----------------------------------------------------|-------------|-------------------|------------------------|------------|-------------|-------------|
| No.                                                 | Freq. (MHz) | Reading (dBμ V/m) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 3760        | 38.5              | -95.26                 | -56.76     | -13         | -43.76      |
| 2                                                   | 5640        | 44.01             | -95.26                 | -51.25     | -13         | -38.25      |
| 3                                                   | 7520        | 68.9              | -95.26                 | -26.36     | -13         | -13.36      |
| 4                                                   | 9400        | 59.67             | -95.26                 | -35.59     | -13         | -22.59      |
| Antenna Polarity & Test Distance: Vertical at 3 M   |             |                   |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBμ V/m) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 3760        | 37.79             | -95.26                 | -57.47     | -13         | -44.47      |
| 2                                                   | 5640        | 45.95             | -95.26                 | -49.31     | -13         | -36.31      |
| 3                                                   | 7520        | 69.5              | -95.26                 | -25.76     | -13         | -12.76      |
| 4                                                   | 9400        | 62.88             | -95.26                 | -32.38     | -13         | -19.38      |

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), EIRP Value (dBm) = E (dBμV/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = 20log(D) – 104.8; where D is the measurement distance @3m.

|      |                  |                 |                |
|------|------------------|-----------------|----------------|
| Mode | TX channel 19175 | Frequency Range | Above 1000 MHz |
|------|------------------|-----------------|----------------|

| Antenna Polarity & Test Distance: Horizontal at 3 M |             |                   |                        |            |             |             |
|-----------------------------------------------------|-------------|-------------------|------------------------|------------|-------------|-------------|
| No.                                                 | Freq. (MHz) | Reading (dBμ V/m) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 3815        | 37.23             | -95.26                 | -58.03     | -13         | -45.03      |
| 2                                                   | 5722.5      | 44.09             | -95.26                 | -51.17     | -13         | -38.17      |
| 3                                                   | 7630        | 68.84             | -95.26                 | -26.42     | -13         | -13.42      |
| 4                                                   | 9537.5      | 59.61             | -95.26                 | -35.65     | -13         | -22.65      |
| Antenna Polarity & Test Distance: Vertical at 3 M   |             |                   |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBμ V/m) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 3815        | 39.55             | -95.26                 | -55.71     | -13         | -42.71      |
| 2                                                   | 5722.5      | 45.62             | -95.26                 | -49.64     | -13         | -36.64      |
| 3                                                   | 7630        | 70.44             | -95.26                 | -24.82     | -13         | -11.82      |
| 4                                                   | 9537.5      | 62.5              | -95.26                 | -32.76     | -13         | -19.76      |

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), EIRP Value (dBm) = E (dBμV/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = 20log(D) – 104.8; where D is the measurement distance @3m.

## LTE Band 2: 10 MHz

|      |                  |                 |                |
|------|------------------|-----------------|----------------|
| Mode | TX channel 18650 | Frequency Range | Above 1000 MHz |
|------|------------------|-----------------|----------------|

| Antenna Polarity & Test Distance: Horizontal at 3 M |             |                   |                        |            |             |             |
|-----------------------------------------------------|-------------|-------------------|------------------------|------------|-------------|-------------|
| No.                                                 | Freq. (MHz) | Reading (dBμ V/m) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 3710        | 37.67             | -95.26                 | -57.59     | -13         | -44.59      |
| 2                                                   | 5565        | 42.72             | -95.26                 | -52.54     | -13         | -39.54      |
| 3                                                   | 7420        | 68.94             | -95.26                 | -26.32     | -13         | -13.32      |
| 4                                                   | 9275        | 60.38             | -95.26                 | -34.88     | -13         | -21.88      |
| Antenna Polarity & Test Distance: Vertical at 3 M   |             |                   |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBμ V/m) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 3710        | 37.75             | -95.26                 | -57.51     | -13         | -44.51      |
| 2                                                   | 5565        | 45.58             | -95.26                 | -49.68     | -13         | -36.68      |
| 3                                                   | 7420        | 70.52             | -95.26                 | -24.74     | -13         | -11.74      |
| 4                                                   | 9275        | 62.75             | -95.26                 | -32.51     | -13         | -19.51      |

### Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), EIRP Value (dBm) = E (dBμV/m) - Correction Factor @ 3m.
2. Correction Factor (dB) =  $20\log(D) - 104.8$ ; where D is the measurement distance @3m.



|      |                  |                 |                |
|------|------------------|-----------------|----------------|
| Mode | TX channel 18900 | Frequency Range | Above 1000 MHz |
|------|------------------|-----------------|----------------|

| Antenna Polarity & Test Distance: Horizontal at 3 M |             |                   |                        |            |             |             |
|-----------------------------------------------------|-------------|-------------------|------------------------|------------|-------------|-------------|
| No.                                                 | Freq. (MHz) | Reading (dBμ V/m) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 3760        | 37.03             | -95.26                 | -58.23     | -13         | -45.23      |
| 2                                                   | 5640        | 44.65             | -95.26                 | -50.61     | -13         | -37.61      |
| 3                                                   | 7520        | 70.72             | -95.26                 | -24.54     | -13         | -11.54      |
| 4                                                   | 9400        | 60.01             | -95.26                 | -35.25     | -13         | -22.25      |
| Antenna Polarity & Test Distance: Vertical at 3 M   |             |                   |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBμ V/m) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 3760        | 37.94             | -95.26                 | -57.32     | -13         | -44.32      |
| 2                                                   | 5640        | 45.42             | -95.26                 | -49.84     | -13         | -36.84      |
| 3                                                   | 7520        | 70.75             | -95.26                 | -24.51     | -13         | -11.51      |
| 4                                                   | 9400        | 63.64             | -95.26                 | -31.62     | -13         | -18.62      |

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), EIRP Value (dBm) = E (dBμV/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = 20log(D) – 104.8; where D is the measurement distance @3m.

|      |                  |                 |                |
|------|------------------|-----------------|----------------|
| Mode | TX channel 19150 | Frequency Range | Above 1000 MHz |
|------|------------------|-----------------|----------------|

| Antenna Polarity & Test Distance: Horizontal at 3 M |             |                   |                        |            |             |             |
|-----------------------------------------------------|-------------|-------------------|------------------------|------------|-------------|-------------|
| No.                                                 | Freq. (MHz) | Reading (dBμ V/m) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 3810        | 38.18             | -95.26                 | -57.08     | -13         | -44.08      |
| 2                                                   | 5715        | 42.85             | -95.26                 | -52.41     | -13         | -39.41      |
| 3                                                   | 7620        | 69.49             | -95.26                 | -25.77     | -13         | -12.77      |
| 4                                                   | 9525        | 60.09             | -95.26                 | -35.17     | -13         | -22.17      |
| Antenna Polarity & Test Distance: Vertical at 3 M   |             |                   |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBμ V/m) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 3810        | 39.32             | -95.26                 | -55.94     | -13         | -42.94      |
| 2                                                   | 5715        | 46.82             | -95.26                 | -48.44     | -13         | -35.44      |
| 3                                                   | 7620        | 69.18             | -95.26                 | -26.08     | -13         | -13.08      |
| 4                                                   | 9525        | 62.83             | -95.26                 | -32.43     | -13         | -19.43      |

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), EIRP Value (dBm) = E (dBμV/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = 20log(D) – 104.8; where D is the measurement distance @3m.

## LTE Band 2: 15 MHz

|      |                  |                 |                |
|------|------------------|-----------------|----------------|
| Mode | TX channel 18675 | Frequency Range | Above 1000 MHz |
|------|------------------|-----------------|----------------|

| Antenna Polarity & Test Distance: Horizontal at 3 M |             |                   |                        |            |             |             |
|-----------------------------------------------------|-------------|-------------------|------------------------|------------|-------------|-------------|
| No.                                                 | Freq. (MHz) | Reading (dBμ V/m) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 3715        | 37.86             | -95.26                 | -57.40     | -13         | -44.40      |
| 2                                                   | 5572.5      | 43.15             | -95.26                 | -52.11     | -13         | -39.11      |
| 3                                                   | 7430        | 69.11             | -95.26                 | -26.15     | -13         | -13.15      |
| 4                                                   | 9287.5      | 60.43             | -95.26                 | -34.83     | -13         | -21.83      |
| Antenna Polarity & Test Distance: Vertical at 3 M   |             |                   |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBμ V/m) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 3715        | 38.24             | -95.26                 | -57.02     | -13         | -44.02      |
| 2                                                   | 5572.5      | 47.28             | -95.26                 | -47.98     | -13         | -34.98      |
| 3                                                   | 7430        | 70.68             | -95.26                 | -24.58     | -13         | -11.58      |
| 4                                                   | 9287.5      | 63.16             | -95.26                 | -32.10     | -13         | -19.10      |

### Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), EIRP Value (dBm) = E (dBμV/m) - Correction Factor @ 3m.
2. Correction Factor (dB) =  $20\log(D) - 104.8$ ; where D is the measurement distance @3m.

|      |                  |                 |                |
|------|------------------|-----------------|----------------|
| Mode | TX channel 18900 | Frequency Range | Above 1000 MHz |
|------|------------------|-----------------|----------------|

| Antenna Polarity & Test Distance: Horizontal at 3 M |             |                   |                        |            |             |             |
|-----------------------------------------------------|-------------|-------------------|------------------------|------------|-------------|-------------|
| No.                                                 | Freq. (MHz) | Reading (dBμ V/m) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 3760        | 38.05             | -95.26                 | -57.21     | -13         | -44.21      |
| 2                                                   | 5640        | 43.56             | -95.26                 | -51.70     | -13         | -38.70      |
| 3                                                   | 7520        | 69.97             | -95.26                 | -25.29     | -13         | -12.29      |
| 4                                                   | 9400        | 59.39             | -95.26                 | -35.87     | -13         | -22.87      |
| Antenna Polarity & Test Distance: Vertical at 3 M   |             |                   |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBμ V/m) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 3760        | 37.75             | -95.26                 | -57.51     | -13         | -44.51      |
| 2                                                   | 5640        | 46                | -95.26                 | -49.26     | -13         | -36.26      |
| 3                                                   | 7520        | 69.3              | -95.26                 | -25.96     | -13         | -12.96      |
| 4                                                   | 9400        | 63.31             | -95.26                 | -31.95     | -13         | -18.95      |

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), EIRP Value (dBm) = E (dBμV/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = 20log(D) – 104.8; where D is the measurement distance @3m.

|      |                  |                 |                |
|------|------------------|-----------------|----------------|
| Mode | TX channel 19125 | Frequency Range | Above 1000 MHz |
|------|------------------|-----------------|----------------|

| Antenna Polarity & Test Distance: Horizontal at 3 M |             |                   |                        |            |             |             |
|-----------------------------------------------------|-------------|-------------------|------------------------|------------|-------------|-------------|
| No.                                                 | Freq. (MHz) | Reading (dBμ V/m) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 3805        | 37.41             | -95.26                 | -57.85     | -13         | -44.85      |
| 2                                                   | 5707.5      | 43.63             | -95.26                 | -51.63     | -13         | -38.63      |
| 3                                                   | 7610        | 69.59             | -95.26                 | -25.67     | -13         | -12.67      |
| 4                                                   | 9512.5      | 60.72             | -95.26                 | -34.54     | -13         | -21.54      |
| Antenna Polarity & Test Distance: Vertical at 3 M   |             |                   |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBμ V/m) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 3805        | 39                | -95.26                 | -56.26     | -13         | -43.26      |
| 2                                                   | 5707.5      | 46.07             | -95.26                 | -49.19     | -13         | -36.19      |
| 3                                                   | 7610        | 69.66             | -95.26                 | -25.60     | -13         | -12.60      |
| 4                                                   | 9512.5      | 63.61             | -95.26                 | -31.65     | -13         | -18.65      |

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), EIRP Value (dBm) = E (dBμV/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = 20log(D) – 104.8; where D is the measurement distance @3m.

## LTE Band 2: 20 MHz

|      |                  |                 |                |
|------|------------------|-----------------|----------------|
| Mode | TX channel 18700 | Frequency Range | Above 1000 MHz |
|------|------------------|-----------------|----------------|

| Antenna Polarity & Test Distance: Horizontal at 3 M |             |                   |                        |            |             |             |
|-----------------------------------------------------|-------------|-------------------|------------------------|------------|-------------|-------------|
| No.                                                 | Freq. (MHz) | Reading (dBμ V/m) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 3720        | 38.3              | -95.26                 | -56.96     | -13         | -43.96      |
| 2                                                   | 5580        | 43.08             | -95.26                 | -52.18     | -13         | -39.18      |
| 3                                                   | 7440        | 69.47             | -95.26                 | -25.79     | -13         | -12.79      |
| 4                                                   | 9300        | 59.58             | -95.26                 | -35.68     | -13         | -22.68      |
| Antenna Polarity & Test Distance: Vertical at 3 M   |             |                   |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBμ V/m) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 3720        | 38.79             | -95.26                 | -56.47     | -13         | -43.47      |
| 2                                                   | 5580        | 46.84             | -95.26                 | -48.42     | -13         | -35.42      |
| 3                                                   | 7440        | 70.59             | -95.26                 | -24.67     | -13         | -11.67      |
| 4                                                   | 9300        | 62.39             | -95.26                 | -32.87     | -13         | -19.87      |

### Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), EIRP Value (dBm) = E (dBμV/m) - Correction Factor @ 3m.
2. Correction Factor (dB) =  $20\log(D) - 104.8$ ; where D is the measurement distance @3m.

|      |                  |                 |                |
|------|------------------|-----------------|----------------|
| Mode | TX channel 18900 | Frequency Range | Above 1000 MHz |
|------|------------------|-----------------|----------------|

| Antenna Polarity & Test Distance: Horizontal at 3 M |             |                   |                        |            |             |             |
|-----------------------------------------------------|-------------|-------------------|------------------------|------------|-------------|-------------|
| No.                                                 | Freq. (MHz) | Reading (dBμ V/m) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 3760        | 37.59             | -95.26                 | -57.67     | -13         | -44.67      |
| 2                                                   | 5640        | 44.06             | -95.26                 | -51.20     | -13         | -38.20      |
| 3                                                   | 7520        | 70.73             | -95.26                 | -24.53     | -13         | -11.53      |
| 4                                                   | 9400        | 60.82             | -95.26                 | -34.44     | -13         | -21.44      |
| Antenna Polarity & Test Distance: Vertical at 3 M   |             |                   |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBμ V/m) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 3760        | 37.76             | -95.26                 | -57.50     | -13         | -44.50      |
| 2                                                   | 5640        | 46.69             | -95.26                 | -48.57     | -13         | -35.57      |
| 3                                                   | 7520        | 70.81             | -95.26                 | -24.45     | -13         | -11.45      |
| 4                                                   | 9400        | 62.89             | -95.26                 | -32.37     | -13         | -19.37      |

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), EIRP Value (dBm) = E (dBμV/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = 20log(D) – 104.8; where D is the measurement distance @3m.

|      |                  |                 |                |
|------|------------------|-----------------|----------------|
| Mode | TX channel 19100 | Frequency Range | Above 1000 MHz |
|------|------------------|-----------------|----------------|

| Antenna Polarity & Test Distance: Horizontal at 3 M |             |                        |                        |            |             |             |
|-----------------------------------------------------|-------------|------------------------|------------------------|------------|-------------|-------------|
| No.                                                 | Freq. (MHz) | Reading (dB $\mu$ V/m) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 3800        | 38.27                  | -95.26                 | -56.99     | -13         | -43.99      |
| 2                                                   | 5700        | 43.05                  | -95.26                 | -52.21     | -13         | -39.21      |
| 3                                                   | 7600        | 70.24                  | -95.26                 | -25.02     | -13         | -12.02      |
| 4                                                   | 9500        | 59.75                  | -95.26                 | -35.51     | -13         | -22.51      |
| Antenna Polarity & Test Distance: Vertical at 3 M   |             |                        |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dB $\mu$ V/m) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 3800        | 38.45                  | -95.26                 | -56.81     | -13         | -43.81      |
| 2                                                   | 5700        | 46.27                  | -95.26                 | -48.99     | -13         | -35.99      |
| 3                                                   | 7600        | 69.94                  | -95.26                 | -25.32     | -13         | -12.32      |
| 4                                                   | 9500        | 62.67                  | -95.26                 | -32.59     | -13         | -19.59      |

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), EIRP Value (dBm) = E (dB $\mu$ V/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = 20log(D) – 104.8; where D is the measurement distance @3m.



## 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 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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