



# TEST REPORT

**Reference No.** ..... : WTU26D02040333W005  
**Manufacturer\*** ..... : Coolr Group Inc  
**Address** ..... : 4451 Brookfield Corporate Dr. Suite 111, Chantilly, VA 20151, USA  
**Factory** ..... : MIOT Wireless Solutions Co., Ltd.  
**Address** ..... : Room 602, Building No.14, InnoWing Valley, No.135 Zhangji Road,  
Kunshan, Suzhou, Jiangsu, China.  
**Product** ..... : VistaZ  
**PMN** ..... : VistaZ Power, VistaZ Go  
**Model(s)** ..... : CVP-0401, CVG-0401  
**Standards** ..... : ETSI EN 301 908-1 V15.2.1 (2023-01)  
ETSI EN 301 908-13 V13.2.1 (2022-02)  
**Date of Receipt Sample** ... : 2026-02-26  
**Date of Test** ..... : 2026-03-11 to 2026-03-24  
**Date of Issue** ..... : 2026-03-31  
**Test Result** ..... : **Pass**

## Remarks:

1. The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.
2. "\*" **manufacturer** means any natural or legal person who manufactures radio equipment or has radio equipment designed or manufactured, and markets that equipment under his name or trade mark.

## Prepared By:

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3 Revision History

| Test Report No.    | Date of Receipt Sample | Date of Test             | Date of Issue | Purpose  | Comment | Approved |
|--------------------|------------------------|--------------------------|---------------|----------|---------|----------|
| WTU26D02040333W005 | 2026-02-26             | 2026-03-11 to 2026-03-24 | 2026-03-31    | Original | -       | Valid    |

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## 4 General Information

### 4.1 General Description of E.U.T.

|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product:           | VistaZ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Model(s):          | CVP-0401, CVG-0401                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Model Description: | <p>Only the model name, power supply configurations and PMN are different. These devices will be listed in the application under the following exact model numbers:</p> <p>CVP-0401 (Marketed as: VistaZ Power)</p> <p>CVG-0401 (Marketed as: VistaZ Go)</p> <p>The only differences between these two models are strictly related to the power supply configurations:</p> <p>CVP-0401 utilizes a DC power input of up to 24V and includes an internal battery for backup power.</p> <p>CVG-0401 utilizes [3xAA batteries based power supply without the 24V DC input].</p> <p>The model CVP-0401 was tested in this report.</p> |
| LTE Band(s):       | FDD Band 1/3/5/7/8/20/28<br>TDD Band 34/38/40/41                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Hardware Version:  | V2.0 Rev0.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Software Version:  | v06.04.51                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

### 4.2 Details of E.U.T.

|                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|---------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Operation Frequency:                                                                              | <p>LTE Band 1: Tx: 1920-1980MHz, Rx: 2110-2170MHz</p> <p>LTE Band 3: Tx: 1710-1785MHz, Rx: 1805-1880MHz</p> <p>LTE Band 5: Tx: 824-849MHz, Rx: 869-894MHz</p> <p>LTE Band 7: Tx: 2500-2570MHz, Rx: 2620-2690MHz</p> <p>LTE Band 8: Tx: 880-915MHz, Rx: 925-960MHz</p> <p>LTE Band 20: Tx: 832-862MHz, Rx: 791-821MHz</p> <p>LTE Band 28: Tx: 703-748MHz, Rx: 758-803MHz</p> <p>LTE Band 34: Tx: 2010-2025MHz, Rx: 2010-2025MHz</p> <p>LTE Band 38: Tx: 2570-2620MHz, Rx: 2570-2620MHz</p> <p>LTE Band 40: Tx: 2300-2400MHz, Rx: 2300-2400MHz</p> <p>LTE Band 41: Tx: 2496-2690MHz, Rx: 2496-2690MHz</p> |
| Max. RF output power:                                                                             | <p>LTE Band 1: 25dBm</p> <p>LTE Band 3: 25dBm</p> <p>LTE Band 5: 25dBm</p> <p>LTE Band 7: 25dBm</p> <p>LTE Band 8: 25dBm</p> <p>LTE Band 20: 25dBm</p> <p>LTE Band 28: 25dBm</p> <p>LTE Band 34: 25dBm</p> <p>LTE Band 38: 25dBm</p> <p>LTE Band 40: 25dBm</p> <p>LTE Band 41: 25dBm</p>                                                                                                                                                                                                                                                                                                                |
| Type of Modulation:                                                                               | QPSK, 16QAM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Antenna installation:                                                                             | Stainless steel antenna                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Waltek Testing Group Co., Ltd.<br><a href="http://www.waltek.com.cn">http://www.waltek.com.cn</a> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

**Antenna Gain:**

LTE Band 1: 3.09dBi  
LTE Band 3: 1.50dBi  
LTE Band 5: 0.25dBi  
LTE Band 7: 2.77dBi  
LTE Band 8: -1.88dBi  
LTE Band 20: 0.25dBi  
LTE Band 28: 0.72dBi  
LTE Band 34: -3.73dBi  
LTE Band 38: 2.33dBi  
LTE Band 40: 2.26dBi  
LTE Band 41: 2.96dBi

**Note:**

#: The antenna gain is provided by the applicant, and the applicant should be responsible for its authenticity, WALTEK lab has not verified the authenticity of its information.

**Ratings:**

DC 12-24V for CVP-0401

**Battery:**

DC 3.7V by battery for CVP-0401

DC 4.5V by 3\*AA battery for CVG-0401

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## 5 Test Summary

| RF PART                                                                                                                                                               |                    |        |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|--------|
| Test Items                                                                                                                                                            | Test Requirement   | Result |
| Radiated emissions(UE)                                                                                                                                                | ETSI EN 301 908-1  | PASS   |
| Control and monitoring functions(UE)                                                                                                                                  | ETSI EN 301 908-1  | PASS*  |
| Transmitter maximum output power                                                                                                                                      | ETSI EN 301 908-13 | PASS*  |
| Transmitter spectrum emission mask                                                                                                                                    | ETSI EN 301 908-13 | PASS*  |
| Transmitter spurious emission                                                                                                                                         | ETSI EN 301 908-13 | PASS   |
| Transmitter minimum output power                                                                                                                                      | ETSI EN 301 908-13 | PASS*  |
| Receiver adjacent channel selectivity(ACS)                                                                                                                            | ETSI EN 301 908-13 | PASS*  |
| Receiver blocking characteristics                                                                                                                                     | ETSI EN 301 908-13 | PASS*  |
| Receiver spurious response                                                                                                                                            | ETSI EN 301 908-13 | PASS*  |
| Receiver intermodulation characteristics                                                                                                                              | ETSI EN 301 908-13 | PASS*  |
| Receiver Reference Sensitivity Level                                                                                                                                  | ETSI EN 301 908-13 | PASS*  |
| Receiver spurious emission                                                                                                                                            | ETSI EN 301 908-13 | PASS*  |
| Transmitter adjacent channel leakage power ratio (ACLR)                                                                                                               | ETSI EN 301 908-13 | PASS*  |
| Remark:<br>N/A: Not Applicable<br>RF: In this whole report RF means Radio Frequency.<br>*: The test result refer to the report SZCR240300099801 and SZCR240300099802. |                    |        |



## 6 Equipment Used during Test

### 6.1 Equipments List

| RF Conducted test                      |                                      |                      |               |            |                       |                      |
|----------------------------------------|--------------------------------------|----------------------|---------------|------------|-----------------------|----------------------|
| Item                                   | Equipment                            | Manufacturer         | Model No.     | Serial No. | Last Calibration Date | Calibration Due Date |
| 1.                                     | Spectrum Analyzer                    | Agilent              | N9020A        | MY49100060 | 2025-07-04            | 2026-07-03           |
| 2.                                     | Universal Radio Communication Tester | R&S                  | CMU 200       | 114798     | 2025-07-04            | 2026-07-03           |
| 3.                                     | Humidity Chamber                     | GF                   | GTH-225-40-1P | IAA061213  | 2025-07-04            | 2026-07-03           |
| 4.                                     | Synthesized Sweeper                  | HP                   | 8341B         | 2624A00177 | 2025-07-04            | 2026-07-03           |
| 5.                                     | Matching Network                     | SUN MOON ELECTRONICS | N/A           | MP0835-6   | 2025-07-04            | 2026-07-03           |
| 6.                                     | DC Power Supply                      | EVERFINE             | WY305         | 1004002    | 2025-07-04            | 2026-07-03           |
| 3m Semi-anechoic Chamber for Radiation |                                      |                      |               |            |                       |                      |
| Item                                   | Equipment                            | Manufacturer         | Model No.     | Serial No. | Last Calibration Date | Calibration Due Date |
| 1.                                     | Spectrum Analyzer                    | R&S                  | FSP30         | 100091     | 2025-04-19            | 2026-04-18           |
| 2.                                     | Amplifier                            | Agilent              | 8447D         | 2944A10178 | 2025-07-04            | 2026-07-03           |
| 3.                                     | Trilog Broadband Antenna             | SCHWARZBECK          | VULB9163      | 336        | 2025-07-20            | 2026-07-19           |
| 4.                                     | Coaxial Cable (below 1GHz)           | Top                  | TYPE16(13M)   | -          | 2025-04-19            | 2026-04-18           |
| 5.                                     | Broad-band Horn Antenna              | SCHWARZBECK          | BBHA 9120 D   | 9120D-1314 | 2025-08-09            | 2026-08-08           |
| 6.                                     | Broadband Preamplifier               | COMPLIANCE DIRECTION | PAP-1G18      | 2004       | 2025-07-04            | 2026-07-03           |
| 7.                                     | Coaxial Cable (above 1GHz)           | ZT26-NJ-NJ-8M/FA     | 1GHz-18GHz    | NA         | 2025-04-19            | 2026-04-18           |
| 8.                                     | Fading Simulator                     | R&S                  | ABFS          | 100172     | 2025-04-19            | 2026-04-18           |
| 9.                                     | ESG VECTOR SIGNAL GENERATOR          | Malaysia Keysight    | E4438C        | MY45092536 | 2025-04-19            | 2026-04-18           |
| 10.                                    | Universal Radio Communication Tester | R&S                  | CMU 200       | 114798     | 2025-07-04            | 2026-07-03           |



## 6.2 Measurement Uncertainty

| Parameter                            | Uncertainty           |
|--------------------------------------|-----------------------|
| Occupied Channel Bandwidth           | $\pm 5\%$             |
| RF output power, conducted           | $\pm 0.42\text{dB}$   |
| Power Spectral Density, conducted    | $\pm 0.7\text{dB}$    |
| Unwanted Emissions, conducted        | $\pm 2.76\text{dB}$   |
| Time                                 | $\pm 5\%$             |
| Duty Cycle                           | $\pm 5\%$             |
| Temperature                          | $\pm 1^\circ\text{C}$ |
| Humidity                             | $\pm 2\%$             |
| DC and low frequency voltages        | $\pm 0.1\%$           |
| Conduction disturbance(150kHz~30MHz) | $\pm 3.64\text{dB}$   |
| Radiated Emission(30MHz~1GHz)        | $\pm 4.53\text{dB}$   |
| Radiated Emission(1GHz~30GHz)        | $\pm 5.03\text{dB}$   |

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### 6.3 Test Mode

All test mode(s) and condition(s) mentioned were considered and evaluated respectively by performing full tests, the worst data were recorded and reported.

#### RF Part

| Test Mode |             | Channel Frequency | Channel Number |
|-----------|-------------|-------------------|----------------|
| Tx/Idle   | LTE Band 1  | 1922.5 MHz        | 18025          |
|           |             | 1950.0 MHz        | 18300          |
|           |             | 1977.5 MHz        | 18575          |
|           | LTE Band 3  | 1710.7 MHz        | 19207          |
|           |             | 1747.5 MHz        | 19575          |
|           |             | 1784.3 MHz        | 19943          |
|           | LTE Band 5  | 824.7 MHz         | 20407          |
|           |             | 836.5 MHz         | 20525          |
|           |             | 848.3 MHz         | 20643          |
|           | LTE Band 7  | 2502.5 MHz        | 20775          |
|           |             | 2535.0 MHz        | 21100          |
|           |             | 2567.5 MHz        | 21425          |
|           | LTE Band 8  | 880.7 MHz         | 21457          |
|           |             | 897.5 MHz         | 21625          |
|           |             | 914.3 MHz         | 21793          |
|           | LTE Band 20 | 834.5 MHz         | 24175          |
|           |             | 847.0 MHz         | 24300          |
|           |             | 859.5 MHz         | 24425          |
|           | LTE Band 28 | 704.5 MHz         | 27225          |
|           |             | 719.5 MHz         | 27375          |
|           |             | 746.5MHz          | 27645          |
|           | LTE Band 34 | 2012.5 MHz        | 36225          |
|           |             | 2017.5 MHz        | 36275          |
|           |             | 2022.5 MHz        | 36325          |
|           | LTE Band 38 | 2572.5 MHz        | 37775          |
|           |             | 2595.0 MHz        | 38000          |
|           |             | 2617.5 MHz        | 38225          |
|           | LTE Band 40 | 2302.5 MHz        | 38675          |
|           |             | 2350.0 MHz        | 39150          |
|           |             | 2397.5 MHz        | 39625          |
|           | LTE Band 41 | 2498.5 MHz        | 39675          |
|           |             | 2593 MHz          | 40620          |
|           |             | 2687.5 MHz        | 41565          |



|    |             |     |     |
|----|-------------|-----|-----|
| Rx | LTE Band 1  | N/A | N/A |
|    | LTE Band 3  | N/A | N/A |
|    | LTE Band 7  | N/A | N/A |
|    | LTE Band 8  | N/A | N/A |
|    | LTE Band 20 | N/A | N/A |
|    | LTE Band 28 | N/A | N/A |
|    | LTE Band 34 | N/A | N/A |
|    | LTE Band 38 | N/A | N/A |
|    | LTE Band 40 | N/A | N/A |
|    | LTE Band 41 | N/A | N/A |

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## 7 RF Requirements

### 1. Normal Test Conditions:

Ambient Condition: 25.4 °C to 55 %RH

### 2. Extreme Test Conditions:

Extreme Temperature:

Handheld device: -20°C to +50°C;

Vehicular or Portable: -20°C to +50°C;

Extreme Power Source Voltages:

| Power source                   | Lower extreme | Higher extreme | Normal condition |
|--------------------------------|---------------|----------------|------------------|
| AC mains                       | 0.9           | 1.1            | 1.0              |
| Regulated lead acid battery    | 0.9           | 1.3            | 1.1              |
| Leclanché battery              | 0.85          | 1.0            | 1.0              |
| Lithium battery                | 0.95          | 1.10           | 1.10             |
| Mercury/nickel cadmium battery | 0.9           | 1.0            | 1.0              |

The follow condition is applicable:

| Test Conditions   | Normal | LTLV | LTHV  | HTHV  | HTLV |
|-------------------|--------|------|-------|-------|------|
| Temperature (°C ) | 25.4   | -20  | -20   | 50    | 50   |
| Voltage (VDC)     | 12-24  | 10.8 | 24.24 | 24.24 | 10.8 |



## 7.1 Radiated emissions (UE)

### 7.1.1 Definition

This test assesses the ability of radio communications equipment and ancillary equipment to limit unwanted emissions from the enclosure port.

This test is applicable to radio communications equipment and ancillary equipment.

This test shall be performed on the radio communications equipment and/or a representative configuration of the ancillary equipment.

### 7.1.2 Requirement and Limit

The frequency boundary and reference bandwidths for the detailed transitions of the limits between the requirements for out of band emissions and spurious emissions are based on ITU-R Recommendations SM.329-10 [3] and SM.1539-1 [4].

The requirements shown in the following table are only applicable for frequencies in the spurious domain.

| Frequency                                                                                                 | Minimum requirement (e.r.p.)/ reference bandwidth idle mode | Minimum requirement (e.r.p.)/ reference bandwidth traffic mode | Applicability                                                    |
|-----------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|----------------------------------------------------------------|------------------------------------------------------------------|
| $30 \text{ MHz} \leq f < 1\,000 \text{ MHz}$                                                              | -57 dBm/100 kHz                                             | -36 dBm/100 kHz                                                | All                                                              |
| $1 \text{ GHz} \leq f < 12.75 \text{ GHz}$                                                                | -47 dBm/1 MHz                                               | -30 dBm/1 MHz                                                  | All                                                              |
| $f_c - 2.5 \times 5 \text{ MHz} < f < f_c + 2.5 \times 5 \text{ MHz}$                                     |                                                             | Not defined                                                    | UTRA FDD, UTRA TDD, 3.84 Mcps option, cdma2000, spreading rate 3 |
| $f_c - 2.5 \times BW_{\text{Channel}} \text{ MHz} < f < f_c + 2.5 \times BW_{\text{Channel}} \text{ MHz}$ |                                                             | Not defined                                                    | E-UTRA FDD, E-UTRA TDD, UMB                                      |
| $f_c - 2.5 \times 10 \text{ MHz} < f < f_c + 2.5 \times 10 \text{ MHz}$                                   |                                                             | Not defined                                                    | UTRA TDD, 7.68 Mcps option                                       |
| $f_c - 4 \text{ MHz} < f < f_c + 4 \text{ MHz}$                                                           |                                                             | Not defined                                                    | UTRA TDD, 1.28 Mcps option cdma2000, spreading rate 1            |
| $f_c - 500 \text{ kHz} < f < f_c + 500 \text{ kHz}$                                                       |                                                             | Not defined                                                    | UWC 136, 200 kHz option                                          |
| $f_c - 250 \text{ kHz} < f < f_c + 250 \text{ kHz}$                                                       |                                                             | Not defined                                                    | UWC 136, 30 kHz option                                           |

NOTE:  $f_c$  is the UE transmit centre frequency.

### 7.1.3 EUT Operation Condition

The EUT was programmed to be in continuously transmitting mode.



### 7.1.4 Test Method

Whenever possible the test site should be a fully anechoic chamber simulating the free-space conditions. EUT shall be placed on a non-conducting support. Mean power of any spurious components shall be detected by the test antenna and measuring receiver (e.g. a spectrum analyser).

At each frequency at which a component is detected, the EUT shall be rotated to obtain maximum response, and the effective radiated power (e.r.p.) of that component determined by a substitution measurement, which shall be the reference method. The measurement shall be repeated with the test antenna in the orthogonal polarization plane.

NOTE: Effective radiated power (e.r.p.) refers to the radiation of a half wave tuned dipole instead of an isotropic

antenna. There is a constant difference of 2,15 dB between e.i.r.p. and e.r.p.

$\text{e.r.p. (dBm)} = \text{e.i.r.p. (dBm)} - 2,15$  (ITU-R Recommendation SM.329-10 [3], annex 1).

Measurements are made with a tuned dipole antenna or a reference antenna with a known gain referenced to an

isotropic antenna. Unless otherwise stated, all measurements are done as mean power (RMS).

If a different test site or method is used, this shall be stated in the test report. The results shall be converted to the

reference method values and the validity of the conversion shall be demonstrated.

#### Traffic Mode

| Frequency range  | Max. measure value (dBm) | Test result |
|------------------|--------------------------|-------------|
| 30MHz to 1GHz    | <-36                     | Pass        |
| 1GHz to 12.75GHz | <-30                     | Pass        |

#### Idle Mode

| Frequency range  | Max. measure value (dBm) | Test result |
|------------------|--------------------------|-------------|
| 30MHz to 1GHz    | <-57                     | Pass        |
| 1GHz to 12.75GHz | <-47                     | Pass        |

|                         |                               |          |
|-------------------------|-------------------------------|----------|
| Measurement uncertainty | between 30 MHz and 180 MHz    | +/-5.0dB |
|                         | between 180 MHz and 12,75 GHz | +/-3.0dB |

Please refer to the following test data



### 7.1.5 Measurement Record

LTE Band 1

Idle Mode

| Frequency                                                                                      | Receiver Reading | Turn table Angle | RX Antenna |       | Substituted |       |              | Absolute Level | Result |        |
|------------------------------------------------------------------------------------------------|------------------|------------------|------------|-------|-------------|-------|--------------|----------------|--------|--------|
|                                                                                                |                  |                  | Height     | Polar | SG Level    | Cable | Antenna Gain |                | Limit  | Margin |
| (MHz)                                                                                          | (dBμV)           | Degree           | (m)        | (H/V) | (dBm)       | (dB)  | (dB)         | (dBm)          | (dBm)  | (dB)   |
| Low Channel(1922.5MHz)                                                                         |                  |                  |            |       |             |       |              |                |        |        |
| 197.56                                                                                         | 27.27            | 123              | 1.4        | H     | -81.72      | 1.98  | 9.52         | -74.18         | -57    | -17.18 |
| 197.56                                                                                         | 29.15            | 5                | 1.1        | V     | -77.64      | 1.98  | 9.52         | -70.10         | -57    | -13.10 |
| 2044.21                                                                                        | 24.67            | 346              | 1.6        | H     | -89.10      | 5.99  | 26.25        | -68.84         | -47    | -21.84 |
| 2044.21                                                                                        | 30.00            | 273              | 1.7        | V     | -83.01      | 5.99  | 26.25        | -62.75         | -47    | -15.75 |
| Middle Channel(1950.0MHz)                                                                      |                  |                  |            |       |             |       |              |                |        |        |
| 197.56                                                                                         | 28.01            | 340              | 1.2        | H     | -80.98      | 1.98  | 9.52         | -73.44         | -57    | -16.44 |
| 197.56                                                                                         | 28.19            | 316              | 1.7        | V     | -78.60      | 1.98  | 9.52         | -71.06         | -57    | -14.06 |
| 2044.21                                                                                        | 23.72            | 312              | 1.5        | H     | -90.05      | 5.99  | 26.25        | -69.79         | -47    | -22.79 |
| 2044.21                                                                                        | 28.70            | 316              | 1.6        | V     | -84.31      | 5.99  | 26.25        | -64.05         | -47    | -17.05 |
| High Channel(1977.5MHz)                                                                        |                  |                  |            |       |             |       |              |                |        |        |
| 197.56                                                                                         | 27.97            | 241              | 1.5        | H     | -81.02      | 1.98  | 9.52         | -73.48         | -57    | -16.48 |
| 197.56                                                                                         | 26.34            | 129              | 1.2        | V     | -80.45      | 1.98  | 9.52         | -72.91         | -57    | -15.91 |
| 2044.21                                                                                        | 23.87            | 176              | 1.3        | H     | -89.90      | 5.99  | 26.25        | -69.64         | -47    | -22.64 |
| 2044.21                                                                                        | 29.30            | 334              | 1.5        | V     | -83.71      | 5.99  | 26.25        | -63.45         | -47    | -16.45 |
| Note: Absolute Level = SG Level - Cable Loss + Antenna Gain<br>Margin = Absolute Level - Limit |                  |                  |            |       |             |       |              |                |        |        |



## Traffic Mode

| Frequency                                                                                      | Receiver Reading | Turn table Angle | RX Antenna |       | Substituted |       |              | Absolute Level | Result |        |
|------------------------------------------------------------------------------------------------|------------------|------------------|------------|-------|-------------|-------|--------------|----------------|--------|--------|
|                                                                                                |                  |                  | Height     | Polar | SG Level    | Cable | Antenna Gain |                | Limit  | Margin |
| (MHz)                                                                                          | (dBμV)           | Degree           | (m)        | (H/V) | (dBm)       | (dB)  | (dB)         | (dBm)          | (dBm)  | (dB)   |
| Low Channel(1922.5MHz)                                                                         |                  |                  |            |       |             |       |              |                |        |        |
| 188.35                                                                                         | 47.31            | 96               | 1.6        | H     | -62.80      | 1.86  | 11.91        | -52.75         | -36    | -16.75 |
| 188.35                                                                                         | 50.93            | 197              | 1.5        | V     | -56.53      | 1.86  | 11.91        | -46.48         | -36    | -10.48 |
| 3845.00                                                                                        | 38.59            | 279              | 2.0        | H     | -72.26      | 5.28  | 30.00        | -47.54         | -30    | -17.54 |
| 3845.00                                                                                        | 40.32            | 169              | 1.9        | V     | -68.99      | 5.28  | 30.00        | -44.27         | -30    | -14.27 |
| 5767.50                                                                                        | 26.19            | 114              | 1.6        | H     | -82.90      | 6.52  | 31.70        | -57.72         | -30    | -27.72 |
| 5767.50                                                                                        | 30.16            | 92               | 1.1        | V     | -78.24      | 6.52  | 31.70        | -53.06         | -30    | -23.06 |
| Middle Channel(1950.0MHz)                                                                      |                  |                  |            |       |             |       |              |                |        |        |
| 188.35                                                                                         | 46.98            | 191              | 1.5        | H     | -63.13      | 1.86  | 11.91        | -53.08         | -36    | -17.08 |
| 188.35                                                                                         | 51.63            | 200              | 1.4        | V     | -55.83      | 1.86  | 11.91        | -45.78         | -36    | -9.78  |
| 3900.00                                                                                        | 37.67            | 116              | 1.1        | H     | -73.50      | 5.28  | 30.00        | -48.78         | -30    | -18.78 |
| 3900.00                                                                                        | 40.32            | 241              | 1.6        | V     | -69.40      | 5.28  | 30.00        | -44.68         | -30    | -14.68 |
| 5850.00                                                                                        | 26.77            | 152              | 1.3        | H     | -81.70      | 6.52  | 31.70        | -56.52         | -30    | -26.52 |
| 5850.00                                                                                        | 29.88            | 260              | 1.5        | V     | -78.36      | 6.52  | 31.70        | -53.18         | -30    | -23.18 |
| High Channel(1977.5MHz)                                                                        |                  |                  |            |       |             |       |              |                |        |        |
| 188.35                                                                                         | 47.52            | 117              | 1.5        | H     | -62.59      | 1.86  | 11.91        | -52.54         | -36    | -16.54 |
| 188.35                                                                                         | 52.41            | 248              | 1.1        | V     | -55.05      | 1.86  | 11.91        | -45.00         | -36    | -9.00  |
| 3955.00                                                                                        | 36.81            | 73               | 1.4        | H     | -74.68      | 5.23  | 29.60        | -50.31         | -30    | -20.31 |
| 3955.00                                                                                        | 40.40            | 163              | 1.5        | V     | -69.73      | 5.23  | 29.60        | -45.36         | -30    | -15.36 |
| 5932.50                                                                                        | 25.87            | 96               | 1.4        | H     | -82.60      | 6.64  | 32.60        | -56.64         | -30    | -26.64 |
| 5932.50                                                                                        | 30.40            | 124              | 1.5        | V     | -77.84      | 6.64  | 32.60        | -51.88         | -30    | -21.88 |
| Note: Absolute Level = SG Level - Cable Loss + Antenna Gain<br>Margin = Absolute Level - Limit |                  |                  |            |       |             |       |              |                |        |        |



## LTE Band 3

## Idle Mode

| Frequency                                                                                      | Receiver Reading | Turn table Angle | RX Antenna |       | Substituted |       |              | Absolute Level | Result |        |
|------------------------------------------------------------------------------------------------|------------------|------------------|------------|-------|-------------|-------|--------------|----------------|--------|--------|
|                                                                                                |                  |                  | Height     | Polar | SG Level    | Cable | Antenna Gain |                | Limit  | Margin |
| (MHz)                                                                                          | (dBμV)           | Degree           | (m)        | (H/V) | (dBm)       | (dB)  | (dB)         | (dBm)          | (dBm)  | (dB)   |
| Low Channel(1710.7MHz)                                                                         |                  |                  |            |       |             |       |              |                |        |        |
| 271.36                                                                                         | 25.53            | 201              | 1.1        | H     | -83.46      | 2.24  | 11.57        | -74.13         | -57    | -17.13 |
| 271.36                                                                                         | 27.12            | 294              | 1.5        | V     | -79.67      | 2.24  | 11.57        | -70.34         | -57    | -13.34 |
| 1987.13                                                                                        | 25.80            | 281              | 1.6        | H     | -87.97      | 5.92  | 26.05        | -67.84         | -47    | -20.84 |
| 1987.13                                                                                        | 30.29            | 233              | 1.6        | V     | -82.72      | 5.92  | 26.05        | -62.59         | -47    | -15.59 |
| Middle Channel(1747.5MHz)                                                                      |                  |                  |            |       |             |       |              |                |        |        |
| 271.36                                                                                         | 26.12            | 215              | 1.5        | H     | -82.87      | 2.24  | 11.57        | -73.54         | -57    | -16.54 |
| 271.36                                                                                         | 26.93            | 140              | 1.6        | V     | -79.86      | 2.24  | 11.57        | -70.53         | -57    | -13.53 |
| 1987.13                                                                                        | 26.57            | 236              | 1.4        | H     | -87.20      | 5.92  | 26.05        | -67.07         | -47    | -20.07 |
| 1987.13                                                                                        | 30.59            | 277              | 1.7        | V     | -82.42      | 5.92  | 26.05        | -62.29         | -47    | -15.29 |
| High Channel(1784.3MHz)                                                                        |                  |                  |            |       |             |       |              |                |        |        |
| 271.36                                                                                         | 26.61            | 323              | 1.0        | H     | -82.38      | 2.24  | 11.57        | -73.05         | -57    | -16.05 |
| 271.36                                                                                         | 27.49            | 256              | 2.0        | V     | -79.30      | 2.24  | 11.57        | -69.97         | -57    | -12.97 |
| 1987.13                                                                                        | 26.34            | 53               | 1.3        | H     | -87.43      | 5.92  | 26.05        | -67.30         | -47    | -20.30 |
| 1987.13                                                                                        | 30.16            | 152              | 1.8        | V     | -82.85      | 5.92  | 26.05        | -62.72         | -47    | -15.72 |
| Note: Absolute Level = SG Level - Cable Loss + Antenna Gain<br>Margin = Absolute Level - Limit |                  |                  |            |       |             |       |              |                |        |        |



## Traffic Mode

| Frequency                                                                                      | Receiver Reading | Turn table Angle | RX Antenna |       | Substituted |       |              | Absolute Level | Result |        |
|------------------------------------------------------------------------------------------------|------------------|------------------|------------|-------|-------------|-------|--------------|----------------|--------|--------|
|                                                                                                |                  |                  | Height     | Polar | SG Level    | Cable | Antenna Gain |                | Limit  | Margin |
| (MHz)                                                                                          | (dBμV)           | Degree           | (m)        | (H/V) | (dBm)       | (dB)  | (dB)         | (dBm)          | (dBm)  | (dB)   |
| Low Channel(1710.7MHz)                                                                         |                  |                  |            |       |             |       |              |                |        |        |
| 317.12                                                                                         | 45.55            | 216              | 1.2        | H     | -64.56      | 2.41  | 12.89        | -54.08         | -36    | -18.08 |
| 317.12                                                                                         | 46.42            | 269              | 2.0        | V     | -61.04      | 2.41  | 12.89        | -50.56         | -36    | -14.56 |
| 3421.40                                                                                        | 42.69            | 188              | 1.4        | H     | -70.36      | 5.49  | 28.80        | -47.05         | -30    | -17.05 |
| 3421.40                                                                                        | 45.83            | 265              | 1.3        | V     | -65.32      | 5.49  | 28.80        | -42.01         | -30    | -12.01 |
| 5132.10                                                                                        | 27.80            | 275              | 1.3        | H     | -81.61      | 6.45  | 30.90        | -57.16         | -30    | -27.16 |
| 5132.10                                                                                        | 31.54            | 323              | 1.3        | V     | -77.23      | 6.45  | 30.90        | -52.78         | -30    | -22.78 |
| Middle Channel(1747.5MHz)                                                                      |                  |                  |            |       |             |       |              |                |        |        |
| 317.12                                                                                         | 44.92            | 36               | 1.3        | H     | -65.19      | 2.41  | 12.89        | -54.71         | -36    | -18.71 |
| 317.12                                                                                         | 45.75            | 105              | 1.7        | V     | -61.71      | 2.41  | 12.89        | -51.23         | -36    | -15.23 |
| 3495.00                                                                                        | 43.25            | 30               | 1.5        | H     | -67.92      | 5.49  | 28.80        | -44.61         | -30    | -14.61 |
| 3495.00                                                                                        | 46.46            | 45               | 1.2        | V     | -63.26      | 5.49  | 28.80        | -39.95         | -30    | -9.95  |
| 5242.50                                                                                        | 28.77            | 203              | 1.2        | H     | -79.70      | 6.45  | 30.90        | -55.25         | -30    | -25.25 |
| 5242.50                                                                                        | 31.01            | 320              | 1.7        | V     | -77.23      | 6.45  | 30.90        | -52.78         | -30    | -22.78 |
| High Channel(1784.3MHz)                                                                        |                  |                  |            |       |             |       |              |                |        |        |
| 317.12                                                                                         | 43.95            | 328              | 1.5        | H     | -66.16      | 2.41  | 12.89        | -55.68         | -36    | -19.68 |
| 317.12                                                                                         | 45.95            | 18               | 1.4        | V     | -61.51      | 2.41  | 12.89        | -51.03         | -36    | -15.03 |
| 3568.60                                                                                        | 44.13            | 12               | 1.8        | H     | -67.36      | 5.34  | 29.40        | -43.30         | -30    | -13.30 |
| 3568.60                                                                                        | 46.93            | 331              | 1.6        | V     | -63.20      | 5.34  | 29.40        | -39.14         | -30    | -9.14  |
| 5352.90                                                                                        | 29.77            | 33               | 1.8        | H     | -78.70      | 6.31  | 31.80        | -53.21         | -30    | -23.21 |
| 5352.90                                                                                        | 31.12            | 126              | 1.2        | V     | -77.12      | 6.31  | 31.80        | -51.63         | -30    | -21.63 |
| Note: Absolute Level = SG Level - Cable Loss + Antenna Gain<br>Margin = Absolute Level - Limit |                  |                  |            |       |             |       |              |                |        |        |



## LTE Band 5

## Idle Mode

| Frequency                                                                                      | Receiver Reading | Turn table Angle | RX Antenna |       | Substituted |       |              | Absolute Level | Result |        |
|------------------------------------------------------------------------------------------------|------------------|------------------|------------|-------|-------------|-------|--------------|----------------|--------|--------|
|                                                                                                |                  |                  | Height     | Polar | SG Level    | Cable | Antenna Gain |                | Limit  | Margin |
| (MHz)                                                                                          | (dBμV)           | Degree           | (m)        | (H/V) | (dBm)       | (dB)  | (dB)         | (dBm)          | (dBm)  | (dB)   |
| Low Channel(824.7MHz)                                                                          |                  |                  |            |       |             |       |              |                |        |        |
| 264.79                                                                                         | 23.99            | 285              | 1.2        | H     | -85.00      | 2.24  | 11.57        | -75.67         | -57    | -18.67 |
| 264.79                                                                                         | 28.48            | 173              | 1.9        | V     | -78.31      | 2.24  | 11.57        | -68.98         | -57    | -11.98 |
| 1892.35                                                                                        | 29.63            | 234              | 1.6        | H     | -84.14      | 5.92  | 26.05        | -64.01         | -47    | -17.01 |
| 1892.35                                                                                        | 22.67            | 343              | 1.7        | V     | -90.34      | 5.92  | 26.05        | -70.21         | -47    | -23.21 |
| Middle Channel(836.5MHz)                                                                       |                  |                  |            |       |             |       |              |                |        |        |
| 264.79                                                                                         | 24.65            | 180              | 1.9        | H     | -84.34      | 2.24  | 11.57        | -75.01         | -57    | -18.01 |
| 264.79                                                                                         | 28.90            | 26               | 1.0        | V     | -77.89      | 2.24  | 11.57        | -68.56         | -57    | -11.56 |
| 1892.35                                                                                        | 30.55            | 200              | 1.2        | H     | -83.22      | 5.92  | 26.05        | -63.09         | -47    | -16.09 |
| 1892.35                                                                                        | 22.89            | 181              | 1.3        | V     | -90.12      | 5.92  | 26.05        | -69.99         | -47    | -22.99 |
| High Channel(848.3MHz)                                                                         |                  |                  |            |       |             |       |              |                |        |        |
| 264.79                                                                                         | 24.91            | 225              | 1.2        | H     | -84.08      | 2.24  | 11.57        | -74.75         | -57    | -17.75 |
| 264.79                                                                                         | 29.47            | 181              | 1.0        | V     | -77.32      | 2.24  | 11.57        | -67.99         | -57    | -10.99 |
| 1892.35                                                                                        | 31.21            | 178              | 1.3        | H     | -82.56      | 5.92  | 26.05        | -62.43         | -47    | -15.43 |
| 1892.35                                                                                        | 22.85            | 140              | 2.0        | V     | -90.16      | 5.92  | 26.05        | -70.03         | -47    | -23.03 |
| Note: Absolute Level = SG Level - Cable Loss + Antenna Gain<br>Margin = Absolute Level - Limit |                  |                  |            |       |             |       |              |                |        |        |



## Traffic Mode

| Frequency                                                                                      | Receiver Reading | Turn table Angle | RX Antenna |       | Substituted |       |              | Absolute Level | Result |        |
|------------------------------------------------------------------------------------------------|------------------|------------------|------------|-------|-------------|-------|--------------|----------------|--------|--------|
|                                                                                                |                  |                  | Height     | Polar | SG Level    | Cable | Antenna Gain |                | Limit  | Margin |
| (MHz)                                                                                          | (dBμV)           | Degree           | (m)        | (H/V) | (dBm)       | (dB)  | (dB)         | (dBm)          | (dBm)  | (dB)   |
| Low Channel(824.7MHz)                                                                          |                  |                  |            |       |             |       |              |                |        |        |
| 202.58                                                                                         | 53.09            | 11               | 2.1        | H     | -57.42      | 2.01  | 9.40         | -50.03         | -36    | -14.03 |
| 202.58                                                                                         | 57.88            | 185              | 2.0        | V     | -49.71      | 2.01  | 9.40         | -42.32         | -36    | -6.32  |
| 1649.40                                                                                        | 60.01            | 316              | 1.6        | H     | -53.04      | 5.22  | 24.80        | -33.46         | -30    | -3.46  |
| 1649.40                                                                                        | 62.81            | 343              | 2.0        | V     | -58.34      | 5.22  | 24.80        | -38.76         | -30    | -8.76  |
| 2474.10                                                                                        | 39.46            | 123              | 1.7        | H     | -69.95      | 5.61  | 27.80        | -47.76         | -30    | -17.76 |
| 2474.10                                                                                        | 43.05            | 322              | 1.6        | V     | -65.72      | 5.61  | 27.80        | -43.53         | -30    | -13.53 |
| Middle Channel(836.5MHz)                                                                       |                  |                  |            |       |             |       |              |                |        |        |
| 202.58                                                                                         | 50.25            | 55               | 2.1        | H     | -60.26      | 2.01  | 9.40         | -52.87         | -36    | -16.87 |
| 202.58                                                                                         | 54.84            | 9                | 1.8        | V     | -52.75      | 2.01  | 9.40         | -45.36         | -36    | -9.36  |
| 1673.00                                                                                        | 58.72            | 85               | 1.8        | H     | -54.33      | 5.22  | 24.80        | -34.75         | -30    | -4.75  |
| 1673.00                                                                                        | 60.34            | 219              | 1.7        | V     | -57.81      | 5.22  | 24.80        | -38.23         | -30    | -8.23  |
| 2509.50                                                                                        | 38.61            | 351              | 1.8        | H     | -70.80      | 5.61  | 27.80        | -48.61         | -30    | -18.61 |
| 2509.50                                                                                        | 44.20            | 359              | 1.3        | V     | -64.57      | 5.61  | 27.80        | -42.38         | -30    | -12.38 |
| High Channel(848.3MHz)                                                                         |                  |                  |            |       |             |       |              |                |        |        |
| 202.58                                                                                         | 53.43            | 211              | 2.1        | H     | -57.08      | 2.01  | 9.40         | -49.69         | -36    | -13.69 |
| 202.58                                                                                         | 59.09            | 62               | 2.0        | V     | -48.50      | 2.01  | 9.40         | -41.11         | -36    | -5.11  |
| 1696.60                                                                                        | 61.41            | 60               | 1.2        | H     | -51.64      | 5.22  | 24.80        | -32.06         | -30    | -2.06  |
| 1696.60                                                                                        | 64.28            | 163              | 2.2        | V     | -56.87      | 5.22  | 24.80        | -37.29         | -30    | -7.29  |
| 2544.90                                                                                        | 40.05            | 52               | 1.3        | H     | -69.36      | 5.61  | 27.80        | -47.17         | -30    | -17.17 |
| 2544.90                                                                                        | 43.83            | 292              | 1.1        | V     | -64.94      | 5.61  | 27.80        | -42.75         | -30    | -12.75 |
| Note: Absolute Level = SG Level - Cable Loss + Antenna Gain<br>Margin = Absolute Level - Limit |                  |                  |            |       |             |       |              |                |        |        |



## LTE Band 7

## Idle Mode

| Frequency                                                                                      | Receiver Reading | Turn table Angle | RX Antenna |       | Substituted |       |              | Absolute Level | Result |        |
|------------------------------------------------------------------------------------------------|------------------|------------------|------------|-------|-------------|-------|--------------|----------------|--------|--------|
|                                                                                                |                  |                  | Height     | Polar | SG Level    | Cable | Antenna Gain |                | Limit  | Margin |
| (MHz)                                                                                          | (dBμV)           | Degree           | (m)        | (H/V) | (dBm)       | (dB)  | (dB)         | (dBm)          | (dBm)  | (dB)   |
| Low Channel(2502.5MHz)                                                                         |                  |                  |            |       |             |       |              |                |        |        |
| 304.87                                                                                         | 21.84            | 199              | 1.6        | H     | -87.15      | 2.41  | 12.75        | -76.81         | -57    | -19.81 |
| 304.87                                                                                         | 25.68            | 209              | 1.7        | V     | -81.11      | 2.41  | 12.75        | -70.77         | -57    | -13.77 |
| 2877.15                                                                                        | 20.77            | 59               | 1.1        | H     | -93.00      | 5.34  | 28.31        | -70.03         | -47    | -23.03 |
| 2877.15                                                                                        | 25.91            | 80               | 1.0        | V     | -87.10      | 5.34  | 28.31        | -64.13         | -47    | -17.13 |
| Middle Channel(2535.0MHz)                                                                      |                  |                  |            |       |             |       |              |                |        |        |
| 304.87                                                                                         | 22.02            | 228              | 1.4        | H     | -86.97      | 2.41  | 12.75        | -76.63         | -57    | -19.63 |
| 304.87                                                                                         | 24.69            | 192              | 1.1        | V     | -82.10      | 2.41  | 12.75        | -71.76         | -57    | -14.76 |
| 2877.15                                                                                        | 19.98            | 94               | 1.9        | H     | -93.79      | 5.34  | 28.31        | -70.82         | -47    | -23.82 |
| 2877.15                                                                                        | 25.37            | 24               | 2.0        | V     | -87.64      | 5.34  | 28.31        | -64.67         | -47    | -17.67 |
| High Channel(2567.5MHz)                                                                        |                  |                  |            |       |             |       |              |                |        |        |
| 304.87                                                                                         | 21.29            | 271              | 1.5        | H     | -87.70      | 2.41  | 12.75        | -77.36         | -57    | -20.36 |
| 304.87                                                                                         | 24.50            | 56               | 1.2        | V     | -82.29      | 2.41  | 12.75        | -71.95         | -57    | -14.95 |
| 2877.15                                                                                        | 19.09            | 254              | 1.8        | H     | -94.68      | 5.34  | 28.31        | -71.71         | -47    | -24.71 |
| 2877.15                                                                                        | 25.09            | 119              | 1.6        | V     | -87.92      | 5.34  | 28.31        | -64.95         | -47    | -17.95 |
| Note: Absolute Level = SG Level - Cable Loss + Antenna Gain<br>Margin = Absolute Level - Limit |                  |                  |            |       |             |       |              |                |        |        |



## Traffic Mode

| Frequency                                                                                      | Receiver Reading | Turn table Angle | RX Antenna |       | Substituted |       |              | Absolute Level | Result |        |
|------------------------------------------------------------------------------------------------|------------------|------------------|------------|-------|-------------|-------|--------------|----------------|--------|--------|
|                                                                                                |                  |                  | Height     | Polar | SG Level    | Cable | Antenna Gain |                | Limit  | Margin |
| (MHz)                                                                                          | (dBμV)           | Degree           | (m)        | (H/V) | (dBm)       | (dB)  | (dB)         | (dBm)          | (dBm)  | (dB)   |
| Low Channel(2502.5MHz)                                                                         |                  |                  |            |       |             |       |              |                |        |        |
| 269.45                                                                                         | 46.92            | 271              | 1.9        | H     | -63.19      | 2.29  | 12.35        | -53.13         | -36    | -17.13 |
| 269.45                                                                                         | 48.52            | 112              | 1.1        | V     | -58.94      | 2.29  | 12.35        | -48.88         | -36    | -12.88 |
| 5005.00                                                                                        | 35.71            | 87               | 1.1        | H     | -73.53      | 6.51  | 31.50        | -48.54         | -30    | -18.54 |
| 5005.00                                                                                        | 39.43            | 288              | 1.3        | V     | -69.34      | 6.51  | 31.50        | -44.35         | -30    | -14.35 |
| 7507.50                                                                                        | 22.97            | 163              | 1.4        | H     | -82.27      | 8.08  | 37.00        | -53.35         | -30    | -23.35 |
| 7507.50                                                                                        | 27.89            | 331              | 1.1        | V     | -76.28      | 8.08  | 37.00        | -47.36         | -30    | -17.36 |
| Middle Channel(2535.0MHz)                                                                      |                  |                  |            |       |             |       |              |                |        |        |
| 269.45                                                                                         | 47.33            | 12               | 1.9        | H     | -62.78      | 2.29  | 12.35        | -52.72         | -36    | -16.72 |
| 269.45                                                                                         | 48.50            | 125              | 1.7        | V     | -58.96      | 2.29  | 12.35        | -48.90         | -36    | -12.90 |
| 5070.00                                                                                        | 34.95            | 307              | 1.9        | H     | -74.46      | 6.51  | 31.50        | -49.47         | -30    | -19.47 |
| 5070.00                                                                                        | 38.70            | 250              | 1.5        | V     | -70.07      | 6.51  | 31.50        | -45.08         | -30    | -15.08 |
| 7605.00                                                                                        | 22.41            | 135              | 1.6        | H     | -81.98      | 8.08  | 37.00        | -53.06         | -30    | -23.06 |
| 7605.00                                                                                        | 28.06            | 5                | 1.7        | V     | -75.46      | 8.08  | 37.00        | -46.54         | -30    | -16.54 |
| High Channel(2567.5MHz)                                                                        |                  |                  |            |       |             |       |              |                |        |        |
| 269.45                                                                                         | 46.48            | 333              | 1.5        | H     | -63.63      | 2.29  | 12.35        | -53.57         | -36    | -17.57 |
| 269.45                                                                                         | 48.65            | 98               | 1.7        | V     | -58.81      | 2.29  | 12.35        | -48.75         | -36    | -12.75 |
| 5135.00                                                                                        | 36.88            | 318              | 1.5        | H     | -74.61      | 6.45  | 30.90        | -50.16         | -30    | -20.16 |
| 5135.00                                                                                        | 38.69            | 65               | 1.1        | V     | -71.44      | 6.45  | 30.90        | -46.99         | -30    | -16.99 |
| 7702.50                                                                                        | 23.47            | 278              | 1.9        | H     | -80.75      | 8.25  | 35.90        | -53.10         | -30    | -23.10 |
| 7702.50                                                                                        | 27.51            | 201              | 1.8        | V     | -75.96      | 8.25  | 35.90        | -48.31         | -30    | -18.31 |
| Note: Absolute Level = SG Level - Cable Loss + Antenna Gain<br>Margin = Absolute Level - Limit |                  |                  |            |       |             |       |              |                |        |        |



## LTE Band 8

## Idle Mode

| Frequency                                                                                      | Receiver Reading | Turn table Angle | RX Antenna |       | Substituted |       |              | Absolute Level | Result |        |
|------------------------------------------------------------------------------------------------|------------------|------------------|------------|-------|-------------|-------|--------------|----------------|--------|--------|
|                                                                                                |                  |                  | Height     | Polar | SG Level    | Cable | Antenna Gain |                | Limit  | Margin |
| (MHz)                                                                                          | (dBμV)           | Degree           | (m)        | (H/V) | (dBm)       | (dB)  | (dB)         | (dBm)          | (dBm)  | (dB)   |
| Low Channel(880.7MHz)                                                                          |                  |                  |            |       |             |       |              |                |        |        |
| 194.24                                                                                         | 24.59            | 174              | 1.9        | H     | -84.40      | 1.86  | 11.92        | -74.34         | -57    | -17.34 |
| 194.24                                                                                         | 28.19            | 118              | 1.2        | V     | -78.60      | 1.86  | 11.92        | -68.54         | -57    | -11.54 |
| 2605.79                                                                                        | 23.34            | 342              | 1.3        | H     | -90.43      | 5.48  | 27.54        | -68.37         | -47    | -21.37 |
| 2605.79                                                                                        | 28.47            | 49               | 1.2        | V     | -84.54      | 5.48  | 27.54        | -62.48         | -47    | -15.48 |
| Middle Channel(897.5MHz)                                                                       |                  |                  |            |       |             |       |              |                |        |        |
| 194.24                                                                                         | 24.64            | 75               | 1.2        | H     | -84.35      | 1.86  | 11.92        | -74.29         | -57    | -17.29 |
| 194.24                                                                                         | 28.77            | 2                | 1.3        | V     | -78.02      | 1.86  | 11.92        | -67.96         | -57    | -10.96 |
| 2605.79                                                                                        | 23.69            | 359              | 1.9        | H     | -90.08      | 5.48  | 27.54        | -68.02         | -47    | -21.02 |
| 2605.79                                                                                        | 28.75            | 64               | 1.4        | V     | -84.26      | 5.48  | 27.54        | -62.20         | -47    | -15.20 |
| High Channel(914.3MHz)                                                                         |                  |                  |            |       |             |       |              |                |        |        |
| 194.24                                                                                         | 24.82            | 46               | 1.9        | H     | -84.17      | 1.86  | 11.92        | -74.11         | -57    | -17.11 |
| 194.24                                                                                         | 29.05            | 342              | 1.5        | V     | -77.74      | 1.86  | 11.92        | -67.68         | -57    | -10.68 |
| 2605.79                                                                                        | 23.90            | 245              | 1.3        | H     | -89.87      | 5.48  | 27.54        | -67.81         | -47    | -20.81 |
| 2605.79                                                                                        | 29.69            | 277              | 1.5        | V     | -83.32      | 5.48  | 27.54        | -61.26         | -47    | -14.26 |
| Note: Absolute Level = SG Level - Cable Loss + Antenna Gain<br>Margin = Absolute Level - Limit |                  |                  |            |       |             |       |              |                |        |        |



## Traffic Mode

| Frequency                                                                                      | Receiver Reading | Turn table Angle | RX Antenna |       | Substituted |       |              | Absolute Level | Result |        |
|------------------------------------------------------------------------------------------------|------------------|------------------|------------|-------|-------------|-------|--------------|----------------|--------|--------|
|                                                                                                |                  |                  | Height     | Polar | SG Level    | Cable | Antenna Gain |                | Limit  | Margin |
| (MHz)                                                                                          | (dBμV)           | Degree           | (m)        | (H/V) | (dBm)       | (dB)  | (dB)         | (dBm)          | (dBm)  | (dB)   |
| Low Channel(880.7MHz)                                                                          |                  |                  |            |       |             |       |              |                |        |        |
| 211.58                                                                                         | 46.76            | 194              | 1.7        | H     | -63.35      | 2.08  | 10.26        | -55.17         | -36    | -19.17 |
| 211.58                                                                                         | 49.27            | 228              | 1.8        | V     | -58.19      | 2.08  | 10.26        | -50.01         | -36    | -14.01 |
| 1761.40                                                                                        | 43.62            | 66               | 1.5        | H     | -70.62      | 5.68  | 25.20        | -51.10         | -30    | -21.10 |
| 1761.40                                                                                        | 48.31            | 167              | 1.9        | V     | -65.46      | 5.68  | 25.20        | -45.94         | -30    | -15.94 |
| 2642.10                                                                                        | 35.43            | 25               | 1.5        | H     | -75.81      | 5.46  | 27.50        | -53.77         | -30    | -23.77 |
| 2642.10                                                                                        | 38.17            | 157              | 1.8        | V     | -72.00      | 5.46  | 27.50        | -49.96         | -30    | -19.96 |
| Middle Channel(897.5MHz)                                                                       |                  |                  |            |       |             |       |              |                |        |        |
| 211.58                                                                                         | 46.93            | 357              | 1.7        | H     | -63.18      | 2.08  | 10.26        | -55.00         | -36    | -19.00 |
| 211.58                                                                                         | 49.27            | 218              | 1.0        | V     | -58.19      | 2.08  | 10.26        | -50.01         | -36    | -14.01 |
| 1795.00                                                                                        | 44.05            | 87               | 1.2        | H     | -70.36      | 5.68  | 25.20        | -50.84         | -30    | -20.84 |
| 1795.00                                                                                        | 47.96            | 220              | 1.4        | V     | -65.81      | 5.68  | 25.20        | -46.29         | -30    | -16.29 |
| 2692.50                                                                                        | 35.12            | 120              | 1.3        | H     | -76.27      | 5.46  | 27.50        | -54.23         | -30    | -24.23 |
| 2692.50                                                                                        | 37.72            | 128              | 1.5        | V     | -72.80      | 5.46  | 27.50        | -50.76         | -30    | -20.76 |
| High Channel(914.3MHz)                                                                         |                  |                  |            |       |             |       |              |                |        |        |
| 211.58                                                                                         | 47.31            | 338              | 1.8        | H     | -62.80      | 2.08  | 10.26        | -54.62         | -36    | -18.62 |
| 211.58                                                                                         | 50.17            | 187              | 1.3        | V     | -57.29      | 2.08  | 10.26        | -49.11         | -36    | -13.11 |
| 1828.60                                                                                        | 44.37            | 189              | 1.5        | H     | -70.12      | 5.68  | 25.20        | -50.60         | -30    | -20.60 |
| 1828.60                                                                                        | 48.85            | 346              | 1.3        | V     | -64.28      | 5.68  | 25.20        | -44.76         | -30    | -14.76 |
| 2742.90                                                                                        | 35.83            | 189              | 1.1        | H     | -75.39      | 5.32  | 28.30        | -52.41         | -30    | -22.41 |
| 2742.90                                                                                        | 38.10            | 327              | 1.5        | V     | -72.37      | 5.32  | 28.30        | -49.39         | -30    | -19.39 |
| Note: Absolute Level = SG Level - Cable Loss + Antenna Gain<br>Margin = Absolute Level - Limit |                  |                  |            |       |             |       |              |                |        |        |



## LTE Band 20

## Idle Mode

| Frequency                                                                                      | Receiver Reading | Turn table Angle | RX Antenna |       | Substituted |       |              | Absolute Level | Result |        |
|------------------------------------------------------------------------------------------------|------------------|------------------|------------|-------|-------------|-------|--------------|----------------|--------|--------|
|                                                                                                |                  |                  | Height     | Polar | SG Level    | Cable | Antenna Gain |                | Limit  | Margin |
| (MHz)                                                                                          | (dBμV)           | Degree           | (m)        | (H/V) | (dBm)       | (dB)  | (dB)         | (dBm)          | (dBm)  | (dB)   |
| Low Channel(834.5MHz)                                                                          |                  |                  |            |       |             |       |              |                |        |        |
| 302.56                                                                                         | 22.17            | 91               | 1.9        | H     | -86.82      | 2.34  | 12.61        | -76.55         | -57    | -19.55 |
| 302.56                                                                                         | 24.64            | 357              | 1.8        | V     | -82.15      | 2.34  | 12.61        | -71.88         | -57    | -14.88 |
| 2247.33                                                                                        | 23.35            | 62               | 1.2        | H     | -90.42      | 5.87  | 28.12        | -68.17         | -47    | -21.17 |
| 2247.33                                                                                        | 29.96            | 14               | 1.4        | V     | -83.05      | 5.87  | 28.12        | -60.80         | -47    | -13.80 |
| Middle Channel(847.0MHz)                                                                       |                  |                  |            |       |             |       |              |                |        |        |
| 302.56                                                                                         | 21.24            | 272              | 1.2        | H     | -87.75      | 2.34  | 12.61        | -77.48         | -57    | -20.48 |
| 302.56                                                                                         | 25.31            | 195              | 1.6        | V     | -81.48      | 2.34  | 12.61        | -71.21         | -57    | -14.21 |
| 2247.33                                                                                        | 24.13            | 293              | 1.6        | H     | -89.64      | 5.87  | 28.12        | -67.39         | -47    | -20.39 |
| 2247.33                                                                                        | 30.35            | 341              | 1.4        | V     | -82.66      | 5.87  | 28.12        | -60.41         | -47    | -13.41 |
| High Channel(859.5MHz)                                                                         |                  |                  |            |       |             |       |              |                |        |        |
| 302.56                                                                                         | 21.89            | 306              | 1.6        | H     | -87.10      | 2.34  | 12.61        | -76.83         | -57    | -19.83 |
| 302.56                                                                                         | 25.14            | 263              | 1.9        | V     | -81.65      | 2.34  | 12.61        | -71.38         | -57    | -14.38 |
| 2247.33                                                                                        | 24.40            | 76               | 1.2        | H     | -89.37      | 5.87  | 28.12        | -67.12         | -47    | -20.12 |
| 2247.33                                                                                        | 30.27            | 301              | 1.2        | V     | -82.74      | 5.87  | 28.12        | -60.49         | -47    | -13.49 |
| Note: Absolute Level = SG Level - Cable Loss + Antenna Gain<br>Margin = Absolute Level - Limit |                  |                  |            |       |             |       |              |                |        |        |



## Traffic Mode

| Frequency                                                                                      | Receiver Reading | Turn table Angle | RX Antenna |       | Substituted |       |              | Absolute Level | Result |        |
|------------------------------------------------------------------------------------------------|------------------|------------------|------------|-------|-------------|-------|--------------|----------------|--------|--------|
|                                                                                                |                  |                  | Height     | Polar | SG Level    | Cable | Antenna Gain |                | Limit  | Margin |
| (MHz)                                                                                          | (dBμV)           | Degree           | (m)        | (H/V) | (dBm)       | (dB)  | (dB)         | (dBm)          | (dBm)  | (dB)   |
| Low Channel(834.5MHz)                                                                          |                  |                  |            |       |             |       |              |                |        |        |
| 150.28                                                                                         | 44.96            | 280              | 1.7        | H     | -65.15      | 1.63  | 13.05        | -53.73         | -36    | -17.73 |
| 150.28                                                                                         | 47.02            | 39               | 1.4        | V     | -60.44      | 1.63  | 13.05        | -49.02         | -36    | -13.02 |
| 1669.00                                                                                        | 44.68            | 146              | 1.9        | H     | -64.56      | 5.22  | 24.80        | -44.98         | -30    | -14.98 |
| 1669.00                                                                                        | 38.92            | 250              | 1.6        | V     | -69.85      | 5.22  | 24.80        | -50.27         | -30    | -20.27 |
| 2503.50                                                                                        | 29.10            | 295              | 1.4        | H     | -76.14      | 5.46  | 27.50        | -54.10         | -30    | -24.10 |
| 2503.50                                                                                        | 34.23            | 238              | 1.9        | V     | -69.94      | 5.46  | 27.50        | -47.90         | -30    | -17.90 |
| Middle Channel(847.0MHz)                                                                       |                  |                  |            |       |             |       |              |                |        |        |
| 150.28                                                                                         | 45.06            | 276              | 1.3        | H     | -65.05      | 1.63  | 13.05        | -53.63         | -36    | -17.63 |
| 150.28                                                                                         | 47.17            | 144              | 1.4        | V     | -60.29      | 1.63  | 13.05        | -48.87         | -36    | -12.87 |
| 1694.00                                                                                        | 45.24            | 175              | 1.8        | H     | -64.17      | 5.22  | 24.80        | -44.59         | -30    | -14.59 |
| 1694.00                                                                                        | 39.47            | 303              | 1.3        | V     | -69.30      | 5.22  | 24.80        | -49.72         | -30    | -19.72 |
| 2541.00                                                                                        | 29.76            | 338              | 1.8        | H     | -74.63      | 5.46  | 27.50        | -52.59         | -30    | -22.59 |
| 2541.00                                                                                        | 33.46            | 131              | 1.6        | V     | -70.06      | 5.46  | 27.50        | -48.02         | -30    | -18.02 |
| High Channel(859.5MHz)                                                                         |                  |                  |            |       |             |       |              |                |        |        |
| 150.28                                                                                         | 45.20            | 20               | 1.8        | H     | -64.91      | 1.63  | 13.05        | -53.49         | -36    | -17.49 |
| 150.28                                                                                         | 47.81            | 307              | 1.5        | V     | -59.65      | 1.63  | 13.05        | -48.23         | -36    | -12.23 |
| 1719.00                                                                                        | 44.65            | 25               | 1.5        | H     | -66.84      | 5.22  | 24.80        | -47.26         | -30    | -17.26 |
| 1719.00                                                                                        | 39.04            | 157              | 1.1        | V     | -71.09      | 5.22  | 24.80        | -51.51         | -30    | -21.51 |
| 2578.50                                                                                        | 29.00            | 168              | 1.4        | H     | -75.22      | 5.46  | 27.50        | -53.18         | -30    | -23.18 |
| 2578.50                                                                                        | 33.67            | 315              | 1.1        | V     | -69.80      | 5.46  | 27.50        | -47.76         | -30    | -17.76 |
| Note: Absolute Level = SG Level - Cable Loss + Antenna Gain<br>Margin = Absolute Level - Limit |                  |                  |            |       |             |       |              |                |        |        |



## LTE Band 28

## Idle Mode

| Frequency                                                                                      | Receiver Reading | Turn table Angle | RX Antenna |       | Substituted |       |              | Absolute Level | Result |        |
|------------------------------------------------------------------------------------------------|------------------|------------------|------------|-------|-------------|-------|--------------|----------------|--------|--------|
|                                                                                                |                  |                  | Height     | Polar | SG Level    | Cable | Antenna Gain |                | Limit  | Margin |
| (MHz)                                                                                          | (dBμV)           | Degree           | (m)        | (H/V) | (dBm)       | (dB)  | (dB)         | (dBm)          | (dBm)  | (dB)   |
| Low Channel(704.5MHz)                                                                          |                  |                  |            |       |             |       |              |                |        |        |
| 260.52                                                                                         | 26.54            | 232              | 1.0        | H     | -82.45      | 2.28  | 11.51        | -73.22         | -57    | -16.22 |
| 260.52                                                                                         | 27.99            | 5                | 1.4        | V     | -78.80      | 2.28  | 11.51        | -69.57         | -57    | -12.57 |
| 2894.35                                                                                        | 26.38            | 29               | 1.8        | H     | -87.39      | 5.26  | 28.43        | -64.22         | -47    | -17.22 |
| 2894.35                                                                                        | 30.59            | 43               | 1.4        | V     | -82.42      | 5.26  | 28.43        | -59.25         | -47    | -12.25 |
| Middle Channel(719.5MHz)                                                                       |                  |                  |            |       |             |       |              |                |        |        |
| 260.52                                                                                         | 27.03            | 21               | 1.6        | H     | -81.96      | 2.28  | 11.51        | -72.73         | -57    | -15.73 |
| 260.52                                                                                         | 28.06            | 187              | 1.2        | V     | -78.73      | 2.28  | 11.51        | -69.50         | -57    | -12.50 |
| 2894.35                                                                                        | 26.43            | 277              | 1.7        | H     | -87.34      | 5.26  | 28.43        | -64.17         | -47    | -17.17 |
| 2894.35                                                                                        | 30.96            | 312              | 1.8        | V     | -82.05      | 5.26  | 28.43        | -58.88         | -47    | -11.88 |
| High Channel(746.5MHz)                                                                         |                  |                  |            |       |             |       |              |                |        |        |
| 260.52                                                                                         | 27.95            | 77               | 1.0        | H     | -81.04      | 2.28  | 11.51        | -71.81         | -57    | -14.81 |
| 260.52                                                                                         | 28.83            | 318              | 1.2        | V     | -77.96      | 2.28  | 11.51        | -68.73         | -57    | -11.73 |
| 2894.35                                                                                        | 27.09            | 344              | 1.2        | H     | -86.68      | 5.26  | 28.43        | -63.51         | -47    | -16.51 |
| 2894.35                                                                                        | 30.41            | 32               | 1.7        | V     | -82.60      | 5.26  | 28.43        | -59.43         | -47    | -12.43 |
| Note: Absolute Level = SG Level - Cable Loss + Antenna Gain<br>Margin = Absolute Level - Limit |                  |                  |            |       |             |       |              |                |        |        |



## Traffic Mode

| Frequency                                                                                      | Receiver Reading | Turn table Angle | RX Antenna |       | Substituted |       |              | Absolute Level | Result |        |
|------------------------------------------------------------------------------------------------|------------------|------------------|------------|-------|-------------|-------|--------------|----------------|--------|--------|
|                                                                                                |                  |                  | Height     | Polar | SG Level    | Cable | Antenna Gain |                | Limit  | Margin |
| (MHz)                                                                                          | (dBμV)           | Degree           | (m)        | (H/V) | (dBm)       | (dB)  | (dB)         | (dBm)          | (dBm)  | (dB)   |
| Low Channel(704.5MHz)                                                                          |                  |                  |            |       |             |       |              |                |        |        |
| 238.22                                                                                         | 49.43            | 356              | 1.9        | H     | -60.68      | 2.16  | 11.11        | -51.73         | -36    | -15.73 |
| 238.22                                                                                         | 39.77            | 148              | 1.7        | V     | -67.69      | 2.16  | 11.11        | -58.74         | -36    | -22.74 |
| 1409.00                                                                                        | 42.00            | 204              | 2.0        | H     | -67.24      | 4.50  | 25.20        | -46.54         | -30    | -16.54 |
| 1409.00                                                                                        | 45.39            | 349              | 1.2        | V     | -63.38      | 4.50  | 25.20        | -42.68         | -30    | -12.68 |
| 2113.50                                                                                        | 26.29            | 207              | 1.1        | H     | -78.95      | 5.83  | 28.20        | -56.58         | -30    | -26.58 |
| 2113.50                                                                                        | 31.12            | 34               | 2.0        | V     | -73.05      | 5.83  | 28.20        | -50.68         | -30    | -20.68 |
| Middle Channel(719.5MHz)                                                                       |                  |                  |            |       |             |       |              |                |        |        |
| 238.22                                                                                         | 50.10            | 120              | 1.3        | H     | -60.01      | 2.16  | 11.11        | -51.06         | -36    | -15.06 |
| 238.22                                                                                         | 40.20            | 125              | 1.0        | V     | -67.26      | 2.16  | 11.11        | -58.31         | -36    | -22.31 |
| 1439.00                                                                                        | 43.00            | 203              | 1.5        | H     | -66.41      | 4.50  | 25.20        | -45.71         | -30    | -15.71 |
| 1439.00                                                                                        | 44.93            | 141              | 1.8        | V     | -63.84      | 4.50  | 25.20        | -43.14         | -30    | -13.14 |
| 2158.50                                                                                        | 26.79            | 48               | 1.3        | H     | -77.60      | 5.83  | 28.20        | -55.23         | -30    | -25.23 |
| 2158.50                                                                                        | 30.97            | 122              | 1.4        | V     | -72.55      | 5.83  | 28.20        | -50.18         | -30    | -20.18 |
| High Channel(746.5MHz)                                                                         |                  |                  |            |       |             |       |              |                |        |        |
| 238.22                                                                                         | 50.41            | 228              | 1.3        | H     | -59.70      | 2.16  | 11.11        | -50.75         | -36    | -14.75 |
| 238.22                                                                                         | 39.28            | 125              | 1.1        | V     | -68.18      | 2.16  | 11.11        | -59.23         | -36    | -23.23 |
| 1493.00                                                                                        | 43.01            | 350              | 1.9        | H     | -68.48      | 4.50  | 25.20        | -47.78         | -30    | -17.78 |
| 1493.00                                                                                        | 44.89            | 132              | 1.5        | V     | -65.24      | 4.50  | 25.20        | -44.54         | -30    | -14.54 |
| 2239.50                                                                                        | 27.23            | 62               | 1.0        | H     | -76.99      | 5.83  | 28.20        | -54.62         | -30    | -24.62 |
| 2239.50                                                                                        | 29.98            | 201              | 1.7        | V     | -73.49      | 5.83  | 28.20        | -51.12         | -30    | -21.12 |
| Note: Absolute Level = SG Level - Cable Loss + Antenna Gain<br>Margin = Absolute Level - Limit |                  |                  |            |       |             |       |              |                |        |        |



## LTE Band 34

## Idle Mode

| Frequency                                                                                      | Receiver Reading | Turn table Angle | RX Antenna |       | Substituted |       |              | Absolute Level | Result |        |
|------------------------------------------------------------------------------------------------|------------------|------------------|------------|-------|-------------|-------|--------------|----------------|--------|--------|
|                                                                                                |                  |                  | Height     | Polar | SG Level    | Cable | Antenna Gain |                | Limit  | Margin |
| (MHz)                                                                                          | (dBμV)           | Degree           | (m)        | (H/V) | (dBm)       | (dB)  | (dB)         | (dBm)          | (dBm)  | (dB)   |
| Low Channel(2012.5MHz)                                                                         |                  |                  |            |       |             |       |              |                |        |        |
| 167.29                                                                                         | 20.85            | 35               | 1.9        | H     | -88.14      | 1.70  | 13.30        | -76.54         | -57    | -19.54 |
| 167.29                                                                                         | 22.97            | 125              | 1.7        | V     | -83.82      | 1.70  | 13.30        | -72.22         | -57    | -15.22 |
| 2770.45                                                                                        | 26.72            | 238              | 1.4        | H     | -87.05      | 5.32  | 28.30        | -64.07         | -47    | -17.07 |
| 2770.45                                                                                        | 29.53            | 337              | 1.5        | V     | -83.48      | 5.32  | 28.30        | -60.50         | -47    | -13.50 |
| Middle Channel(2017.5MHz)                                                                      |                  |                  |            |       |             |       |              |                |        |        |
| 167.29                                                                                         | 20.87            | 156              | 1.9        | H     | -88.12      | 1.70  | 13.30        | -76.52         | -57    | -19.52 |
| 167.29                                                                                         | 23.18            | 38               | 1.2        | V     | -83.61      | 1.70  | 13.30        | -72.01         | -57    | -15.01 |
| 2770.45                                                                                        | 26.32            | 346              | 1.7        | H     | -87.45      | 5.32  | 28.30        | -64.47         | -47    | -17.47 |
| 2770.45                                                                                        | 29.68            | 312              | 1.5        | V     | -83.33      | 5.32  | 28.30        | -60.35         | -47    | -13.35 |
| High Channel(2022.5MHz)                                                                        |                  |                  |            |       |             |       |              |                |        |        |
| 167.29                                                                                         | 20.72            | 144              | 1.4        | H     | -88.27      | 1.70  | 13.30        | -76.67         | -57    | -19.67 |
| 167.29                                                                                         | 23.00            | 166              | 1.1        | V     | -83.79      | 1.70  | 13.30        | -72.19         | -57    | -15.19 |
| 2770.45                                                                                        | 26.94            | 92               | 1.6        | H     | -86.83      | 5.32  | 28.30        | -63.85         | -47    | -16.85 |
| 2770.45                                                                                        | 28.80            | 313              | 1.5        | V     | -84.21      | 5.32  | 28.30        | -61.23         | -47    | -14.23 |
| Note: Absolute Level = SG Level - Cable Loss + Antenna Gain<br>Margin = Absolute Level - Limit |                  |                  |            |       |             |       |              |                |        |        |



## Traffic Mode

| Frequency                                                                                      | Receiver Reading | Turn table Angle | RX Antenna |       | Substituted |       |              | Absolute Level | Result |        |
|------------------------------------------------------------------------------------------------|------------------|------------------|------------|-------|-------------|-------|--------------|----------------|--------|--------|
|                                                                                                |                  |                  | Height     | Polar | SG Level    | Cable | Antenna Gain |                | Limit  | Margin |
| (MHz)                                                                                          | (dBμV)           | Degree           | (m)        | (H/V) | (dBm)       | (dB)  | (dB)         | (dBm)          | (dBm)  | (dB)   |
| Low Channel(2012.5MHz)                                                                         |                  |                  |            |       |             |       |              |                |        |        |
| 279.12                                                                                         | 45.39            | 147              | 2.0        | H     | -64.72      | 2.39  | 12.70        | -54.41         | -36    | -18.41 |
| 279.12                                                                                         | 45.36            | 91               | 1.7        | V     | -62.10      | 2.39  | 12.70        | -51.79         | -36    | -15.79 |
| 4025.00                                                                                        | 38.65            | 279              | 1.5        | H     | -70.59      | 5.23  | 29.60        | -46.22         | -30    | -16.22 |
| 4025.00                                                                                        | 41.40            | 78               | 1.7        | V     | -67.37      | 5.23  | 29.60        | -43.00         | -30    | -13.00 |
| 6037.50                                                                                        | 24.61            | 72               | 1.7        | H     | -80.63      | 6.64  | 32.60        | -54.67         | -30    | -24.67 |
| 6037.50                                                                                        | 31.44            | 217              | 1.6        | V     | -72.73      | 6.64  | 32.60        | -46.77         | -30    | -16.77 |
| Middle Channel(2017.5MHz)                                                                      |                  |                  |            |       |             |       |              |                |        |        |
| 279.12                                                                                         | 44.55            | 42               | 1.1        | H     | -65.56      | 2.39  | 12.70        | -55.25         | -36    | -19.25 |
| 279.12                                                                                         | 46.38            | 221              | 1.4        | V     | -61.08      | 2.39  | 12.70        | -50.77         | -36    | -14.77 |
| 4035.00                                                                                        | 38.81            | 102              | 1.9        | H     | -70.60      | 5.23  | 29.60        | -46.23         | -30    | -16.23 |
| 4035.00                                                                                        | 41.07            | 186              | 1.3        | V     | -67.70      | 5.23  | 29.60        | -43.33         | -30    | -13.33 |
| 6052.50                                                                                        | 23.81            | 194              | 1.0        | H     | -80.58      | 6.64  | 32.60        | -54.62         | -30    | -24.62 |
| 6052.50                                                                                        | 31.15            | 239              | 1.4        | V     | -72.37      | 6.64  | 32.60        | -46.41         | -30    | -16.41 |
| High Channel(2022.5MHz)                                                                        |                  |                  |            |       |             |       |              |                |        |        |
| 279.12                                                                                         | 45.27            | 45               | 1.4        | H     | -64.84      | 2.39  | 12.70        | -54.53         | -36    | -18.53 |
| 279.12                                                                                         | 47.20            | 62               | 1.2        | V     | -60.26      | 2.39  | 12.70        | -49.95         | -36    | -13.95 |
| 4045.00                                                                                        | 37.68            | 160              | 1.5        | H     | -73.81      | 5.23  | 29.60        | -49.44         | -30    | -19.44 |
| 4045.00                                                                                        | 43.14            | 93               | 1.3        | V     | -66.99      | 5.23  | 29.60        | -42.62         | -30    | -12.62 |
| 6067.50                                                                                        | 24.83            | 57               | 1.2        | H     | -79.39      | 6.64  | 32.60        | -53.43         | -30    | -23.43 |
| 6067.50                                                                                        | 30.27            | 68               | 1.6        | V     | -73.20      | 6.64  | 32.60        | -47.24         | -30    | -17.24 |
| Note: Absolute Level = SG Level - Cable Loss + Antenna Gain<br>Margin = Absolute Level - Limit |                  |                  |            |       |             |       |              |                |        |        |



## LTE Band 38

## Idle Mode

| Frequency                                                                                      | Receiver Reading | Turn table Angle | RX Antenna |       | Substituted |       |              | Absolute Level | Result |        |
|------------------------------------------------------------------------------------------------|------------------|------------------|------------|-------|-------------|-------|--------------|----------------|--------|--------|
|                                                                                                |                  |                  | Height     | Polar | SG Level    | Cable | Antenna Gain |                | Limit  | Margin |
| (MHz)                                                                                          | (dBμV)           | Degree           | (m)        | (H/V) | (dBm)       | (dB)  | (dB)         | (dBm)          | (dBm)  | (dB)   |
| Low Channel(2572.5MHz)                                                                         |                  |                  |            |       |             |       |              |                |        |        |
| 408.71                                                                                         | 21.96            | 222              | 1.4        | H     | -87.03      | 2.56  | 14.72        | -74.87         | -57    | -17.87 |
| 408.71                                                                                         | 25.72            | 95               | 1.2        | V     | -81.07      | 2.56  | 14.72        | -68.91         | -57    | -11.91 |
| 3622.18                                                                                        | 20.84            | 201              | 1.7        | H     | -92.93      | 5.25  | 28.62        | -69.56         | -47    | -22.56 |
| 3622.18                                                                                        | 25.61            | 178              | 1.7        | V     | -87.40      | 5.25  | 28.62        | -64.03         | -47    | -17.03 |
| Middle Channel(2595.0MHz)                                                                      |                  |                  |            |       |             |       |              |                |        |        |
| 408.71                                                                                         | 21.70            | 125              | 1.8        | H     | -87.29      | 2.56  | 14.72        | -75.13         | -57    | -18.13 |
| 408.71                                                                                         | 24.86            | 122              | 1.7        | V     | -81.93      | 2.56  | 14.72        | -69.77         | -57    | -12.77 |
| 3622.18                                                                                        | 20.21            | 26               | 1.0        | H     | -93.56      | 5.25  | 28.62        | -70.19         | -47    | -23.19 |
| 3622.18                                                                                        | 25.10            | 145              | 1.1        | V     | -87.91      | 5.25  | 28.62        | -64.54         | -47    | -17.54 |
| High Channel(2617.5MHz)                                                                        |                  |                  |            |       |             |       |              |                |        |        |
| 408.71                                                                                         | 22.66            | 1                | 1.7        | H     | -86.33      | 2.56  | 14.72        | -74.17         | -57    | -17.17 |
| 408.71                                                                                         | 24.20            | 236              | 2.0        | V     | -82.59      | 2.56  | 14.72        | -70.43         | -57    | -13.43 |
| 3622.18                                                                                        | 19.91            | 8                | 1.0        | H     | -93.86      | 5.25  | 28.62        | -70.49         | -47    | -23.49 |
| 3622.18                                                                                        | 24.12            | 11               | 2.0        | V     | -88.89      | 5.25  | 28.62        | -65.52         | -47    | -18.52 |
| Note: Absolute Level = SG Level - Cable Loss + Antenna Gain<br>Margin = Absolute Level - Limit |                  |                  |            |       |             |       |              |                |        |        |



## Traffic Mode

| Frequency                                                                                      | Receiver Reading | Turn table Angle | RX Antenna |       | Substituted |       |              | Absolute Level | Result |        |
|------------------------------------------------------------------------------------------------|------------------|------------------|------------|-------|-------------|-------|--------------|----------------|--------|--------|
|                                                                                                |                  |                  | Height     | Polar | SG Level    | Cable | Antenna Gain |                | Limit  | Margin |
| (MHz)                                                                                          | (dBμV)           | Degree           | (m)        | (H/V) | (dBm)       | (dB)  | (dB)         | (dBm)          | (dBm)  | (dB)   |
| Low Channel(2572.5MHz)                                                                         |                  |                  |            |       |             |       |              |                |        |        |
| 390.46                                                                                         | 44.29            | 3                | 2.0        | H     | -65.82      | 2.51  | 14.36        | -53.97         | -36    | -17.97 |
| 390.46                                                                                         | 45.78            | 253              | 1.3        | V     | -61.68      | 2.51  | 14.36        | -49.83         | -36    | -13.83 |
| 5145.00                                                                                        | 32.58            | 341              | 1.4        | H     | -76.66      | 6.45  | 30.90        | -52.21         | -30    | -22.21 |
| 5145.00                                                                                        | 35.69            | 84               | 1.3        | V     | -73.08      | 6.45  | 30.90        | -48.63         | -30    | -18.63 |
| 7717.50                                                                                        | 26.25            | 288              | 1.4        | H     | -78.99      | 8.25  | 35.90        | -51.34         | -30    | -21.34 |
| 7717.50                                                                                        | 31.23            | 70               | 1.6        | V     | -72.94      | 8.25  | 35.90        | -45.29         | -30    | -15.29 |
| Middle Channel(2595.0MHz)                                                                      |                  |                  |            |       |             |       |              |                |        |        |
| 390.46                                                                                         | 44.02            | 34               | 1.2        | H     | -66.09      | 2.51  | 14.36        | -54.24         | -36    | -18.24 |
| 390.46                                                                                         | 45.89            | 275              | 1.8        | V     | -61.57      | 2.51  | 14.36        | -49.72         | -36    | -13.72 |
| 5190.00                                                                                        | 32.66            | 186              | 1.2        | H     | -76.75      | 6.45  | 30.90        | -52.30         | -30    | -22.30 |
| 5190.00                                                                                        | 35.79            | 83               | 1.5        | V     | -72.98      | 6.45  | 30.90        | -48.53         | -30    | -18.53 |
| 7785.00                                                                                        | 26.46            | 307              | 1.6        | H     | -77.93      | 8.25  | 35.90        | -50.28         | -30    | -20.28 |
| 7785.00                                                                                        | 31.32            | 49               | 1.4        | V     | -72.20      | 8.25  | 35.90        | -44.55         | -30    | -14.55 |
| High Channel(2617.5MHz)                                                                        |                  |                  |            |       |             |       |              |                |        |        |
| 390.46                                                                                         | 45.70            | 78               | 1.7        | H     | -64.41      | 2.51  | 14.36        | -52.56         | -36    | -16.56 |
| 390.46                                                                                         | 46.83            | 325              | 1.2        | V     | -60.63      | 2.51  | 14.36        | -48.78         | -36    | -12.78 |
| 5235.00                                                                                        | 32.92            | 290              | 1.5        | H     | -78.57      | 6.45  | 30.90        | -54.12         | -30    | -24.12 |
| 5235.00                                                                                        | 37.73            | 232              | 1.1        | V     | -72.40      | 6.45  | 30.90        | -47.95         | -30    | -17.95 |
| 7852.50                                                                                        | 26.40            | 312              | 1.2        | H     | -77.82      | 8.25  | 35.90        | -50.17         | -30    | -20.17 |
| 7852.50                                                                                        | 31.55            | 346              | 2.0        | V     | -71.92      | 8.25  | 35.90        | -44.27         | -30    | -14.27 |
| Note: Absolute Level = SG Level - Cable Loss + Antenna Gain<br>Margin = Absolute Level - Limit |                  |                  |            |       |             |       |              |                |        |        |



## LTE Band 40

## Idle Mode

| Frequency                                                                                      | Receiver Reading | Turn table Angle | RX Antenna |       | Substituted |       |              | Absolute Level | Result |        |
|------------------------------------------------------------------------------------------------|------------------|------------------|------------|-------|-------------|-------|--------------|----------------|--------|--------|
|                                                                                                |                  |                  | Height     | Polar | SG Level    | Cable | Antenna Gain |                | Limit  | Margin |
| (MHz)                                                                                          | (dBμV)           | Degree           | (m)        | (H/V) | (dBm)       | (dB)  | (dB)         | (dBm)          | (dBm)  | (dB)   |
| Low Channel(2302.5MHz)                                                                         |                  |                  |            |       |             |       |              |                |        |        |
| 209.38                                                                                         | 28.24            | 313              | 1.2        | H     | -80.75      | 2.01  | 9.40         | -73.36         | -57    | -16.36 |
| 209.38                                                                                         | 29.61            | 337              | 1.9        | V     | -77.18      | 2.01  | 9.40         | -69.79         | -57    | -12.79 |
| 2187.25                                                                                        | 24.87            | 97               | 1.9        | H     | -88.90      | 5.98  | 26.22        | -68.66         | -47    | -21.66 |
| 2187.25                                                                                        | 28.46            | 149              | 1.4        | V     | -84.55      | 5.98  | 26.22        | -64.31         | -47    | -17.31 |
| Middle Channel(2350.0MHz)                                                                      |                  |                  |            |       |             |       |              |                |        |        |
| 209.38                                                                                         | 28.42            | 301              | 1.7        | H     | -80.57      | 2.01  | 9.40         | -73.18         | -57    | -16.18 |
| 209.38                                                                                         | 28.89            | 49               | 1.1        | V     | -77.90      | 2.01  | 9.40         | -70.51         | -57    | -13.51 |
| 2187.25                                                                                        | 24.97            | 189              | 1.9        | H     | -88.80      | 5.98  | 26.22        | -68.56         | -47    | -21.56 |
| 2187.25                                                                                        | 29.34            | 180              | 1.8        | V     | -83.67      | 5.98  | 26.22        | -63.43         | -47    | -16.43 |
| High Channel(2397.5MHz)                                                                        |                  |                  |            |       |             |       |              |                |        |        |
| 209.38                                                                                         | 26.63            | 289              | 1.1        | H     | -82.36      | 2.01  | 9.40         | -74.97         | -57    | -17.97 |
| 209.38                                                                                         | 29.48            | 144              | 1.0        | V     | -77.31      | 2.01  | 9.40         | -69.92         | -57    | -12.92 |
| 2187.25                                                                                        | 25.93            | 156              | 1.8        | H     | -87.84      | 5.98  | 26.22        | -67.60         | -47    | -20.60 |
| 2187.25                                                                                        | 28.45            | 126              | 1.2        | V     | -84.56      | 5.98  | 26.22        | -64.32         | -47    | -17.32 |
| Note: Absolute Level = SG Level - Cable Loss + Antenna Gain<br>Margin = Absolute Level - Limit |                  |                  |            |       |             |       |              |                |        |        |



## Traffic Mode

| Frequency                                                                                      | Receiver Reading | Turn table Angle | RX Antenna |       | Substituted |       |              | Absolute Level | Result |        |
|------------------------------------------------------------------------------------------------|------------------|------------------|------------|-------|-------------|-------|--------------|----------------|--------|--------|
|                                                                                                |                  |                  | Height     | Polar | SG Level    | Cable | Antenna Gain |                | Limit  | Margin |
| (MHz)                                                                                          | (dBμV)           | Degree           | (m)        | (H/V) | (dBm)       | (dB)  | (dB)         | (dBm)          | (dBm)  | (dB)   |
| Low Channel(2302.5MHz)                                                                         |                  |                  |            |       |             |       |              |                |        |        |
| 402.75                                                                                         | 37.39            | 129              | 1.3        | H     | -65.11      | 2.6   | 14.58        | -53.13         | -36    | -17.13 |
| 402.75                                                                                         | 43.25            | 71               | 1.0        | V     | -58.95      | 2.6   | 14.58        | -46.97         | -36    | -10.97 |
| 4605.00                                                                                        | 37.16            | 141              | 1.8        | H     | -73.71      | 5.85  | 30.70        | -48.86         | -30    | -18.86 |
| 4605.00                                                                                        | 41.36            | 150              | 1.8        | V     | -68.29      | 5.85  | 30.70        | -43.44         | -30    | -13.44 |
| 6907.50                                                                                        | 27.25            | 290              | 1.2        | H     | -80.48      | 7.90  | 35.10        | -53.28         | -30    | -23.28 |
| 6907.50                                                                                        | 31.03            | 159              | 1.0        | V     | -75.53      | 7.90  | 35.10        | -48.33         | -30    | -18.33 |
| Middle Channel(2350.0MHz)                                                                      |                  |                  |            |       |             |       |              |                |        |        |
| 402.75                                                                                         | 36.74            | 107              | 1.1        | H     | -65.76      | 2.60  | 14.58        | -53.78         | -36    | -17.78 |
| 402.75                                                                                         | 42.93            | 297              | 1.7        | V     | -59.27      | 2.60  | 14.58        | -47.29         | -36    | -11.29 |
| 4700.00                                                                                        | 38.03            | 255              | 1.5        | H     | -72.77      | 5.85  | 30.70        | -47.92         | -30    | -17.92 |
| 4700.00                                                                                        | 42.71            | 185              | 1.9        | V     | -66.87      | 5.85  | 30.70        | -42.02         | -30    | -12.02 |
| 7050.00                                                                                        | 26.21            | 36               | 1.3        | H     | -81.25      | 7.90  | 35.10        | -54.05         | -30    | -24.05 |
| 7050.00                                                                                        | 32.00            | 5                | 1.7        | V     | -74.48      | 7.90  | 35.10        | -47.28         | -30    | -17.28 |
| High Channel(2397.5MHz)                                                                        |                  |                  |            |       |             |       |              |                |        |        |
| 402.75                                                                                         | 37.66            | 116              | 1.8        | H     | -64.84      | 2.60  | 14.58        | -52.86         | -36    | -16.86 |
| 402.75                                                                                         | 43.30            | 279              | 1.5        | V     | -58.90      | 2.60  | 14.58        | -46.92         | -36    | -10.92 |
| 4795.00                                                                                        | 37.82            | 234              | 1.3        | H     | -72.90      | 6.18  | 31.10        | -47.98         | -30    | -17.98 |
| 4795.00                                                                                        | 41.85            | 300              | 1.1        | V     | -67.28      | 6.18  | 31.10        | -42.36         | -30    | -12.36 |
| 7192.50                                                                                        | 25.64            | 300              | 1.5        | H     | -81.57      | 7.90  | 35.10        | -54.37         | -30    | -24.37 |
| 7192.50                                                                                        | 31.14            | 278              | 1.2        | V     | -75.04      | 7.90  | 35.10        | -47.84         | -30    | -17.84 |
| Note: Absolute Level = SG Level - Cable Loss + Antenna Gain<br>Margin = Absolute Level - Limit |                  |                  |            |       |             |       |              |                |        |        |



## LTE Band 41

## Idle Mode

| Frequency                                                                                      | Receiver Reading | Turn table Angle | RX Antenna |       | Substituted |       |              | Absolute Level | Result |        |
|------------------------------------------------------------------------------------------------|------------------|------------------|------------|-------|-------------|-------|--------------|----------------|--------|--------|
|                                                                                                |                  |                  | Height     | Polar | SG Level    | Cable | Antenna Gain |                | Limit  | Margin |
| (MHz)                                                                                          | (dBμV)           | Degree           | (m)        | (H/V) | (dBm)       | (dB)  | (dB)         | (dBm)          | (dBm)  | (dB)   |
| Low Channel(2498.5MHz)                                                                         |                  |                  |            |       |             |       |              |                |        |        |
| 410.58                                                                                         | 22.82            | 271              | 1.6        | H     | -86.17      | 2.61  | 14.95        | -73.83         | -57    | -16.83 |
| 410.58                                                                                         | 25.84            | 354              | 1.1        | V     | -80.95      | 2.61  | 14.95        | -68.61         | -57    | -11.61 |
| 3019.43                                                                                        | 29.87            | 235              | 1.7        | H     | -83.90      | 5.27  | 28.62        | -60.55         | -47    | -13.55 |
| 3019.43                                                                                        | 22.36            | 172              | 1.9        | V     | -90.65      | 5.27  | 28.62        | -67.30         | -47    | -20.30 |
| Middle Channel(2593MHz)                                                                        |                  |                  |            |       |             |       |              |                |        |        |
| 410.58                                                                                         | 23.76            | 228              | 1.8        | H     | -85.23      | 2.61  | 14.95        | -72.89         | -57    | -15.89 |
| 410.58                                                                                         | 25.83            | 161              | 1.5        | V     | -80.96      | 2.61  | 14.95        | -68.62         | -57    | -11.62 |
| 3019.43                                                                                        | 30.30            | 144              | 2.0        | H     | -83.47      | 5.27  | 28.62        | -60.12         | -47    | -13.12 |
| 3019.43                                                                                        | 21.42            | 214              | 1.2        | V     | -91.59      | 5.27  | 28.62        | -68.24         | -47    | -21.24 |
| High Channel(2687.5MHz)                                                                        |                  |                  |            |       |             |       |              |                |        |        |
| 410.58                                                                                         | 22.39            | 143              | 1.2        | H     | -86.60      | 2.61  | 14.95        | -74.26         | -57    | -17.26 |
| 410.58                                                                                         | 26.82            | 159              | 1.4        | V     | -79.97      | 2.61  | 14.95        | -67.63         | -57    | -10.63 |
| 3019.43                                                                                        | 29.22            | 248              | 1.7        | H     | -84.55      | 5.27  | 28.62        | -61.20         | -47    | -14.20 |
| 3019.43                                                                                        | 20.91            | 313              | 1.2        | V     | -92.10      | 5.27  | 28.62        | -68.75         | -47    | -21.75 |
| Note: Absolute Level = SG Level - Cable Loss + Antenna Gain<br>Margin = Absolute Level - Limit |                  |                  |            |       |             |       |              |                |        |        |



## Traffic Mode

| Frequency                                                                                      | Receiver Reading | Turn table Angle | RX Antenna |       | Substituted |       |              | Absolute Level | Result |        |
|------------------------------------------------------------------------------------------------|------------------|------------------|------------|-------|-------------|-------|--------------|----------------|--------|--------|
|                                                                                                |                  |                  | Height     | Polar | SG Level    | Cable | Antenna Gain |                | Limit  | Margin |
| (MHz)                                                                                          | (dBμV)           | Degree           | (m)        | (H/V) | (dBm)       | (dB)  | (dB)         | (dBm)          | (dBm)  | (dB)   |
| Low Channel(2498.5MHz)                                                                         |                  |                  |            |       |             |       |              |                |        |        |
| 215.68                                                                                         | 48.54            | 160              | 1.6        | H     | -61.57      | 2.11  | 10.06        | -53.62         | -36    | -17.62 |
| 215.68                                                                                         | 50.13            | 53               | 1.5        | V     | -57.33      | 2.11  | 10.06        | -49.38         | -36    | -13.38 |
| 4997.00                                                                                        | 37.45            | 37               | 1.7        | H     | -71.79      | 6.51  | 31.50        | -46.80         | -30    | -16.80 |
| 4997.00                                                                                        | 41.26            | 15               | 1.8        | V     | -67.51      | 6.51  | 31.50        | -42.52         | -30    | -12.52 |
| 7495.50                                                                                        | 24.02            | 52               | 1.7        | H     | -81.22      | 8.08  | 37.00        | -52.30         | -30    | -22.30 |
| 7495.50                                                                                        | 28.93            | 42               | 1.7        | V     | -75.24      | 8.08  | 37.00        | -46.32         | -30    | -16.32 |
| Middle Channel(2593MHz)                                                                        |                  |                  |            |       |             |       |              |                |        |        |
| 215.68                                                                                         | 49.21            | 315              | 1.3        | H     | -60.90      | 2.11  | 10.06        | -52.95         | -36    | -16.95 |
| 215.68                                                                                         | 49.54            | 36               | 1.8        | V     | -57.92      | 2.11  | 10.06        | -49.97         | -36    | -13.97 |
| 5186.00                                                                                        | 37.67            | 252              | 1.0        | H     | -71.74      | 6.45  | 30.90        | -47.29         | -30    | -17.29 |
| 5186.00                                                                                        | 40.27            | 351              | 1.9        | V     | -68.50      | 6.45  | 30.90        | -44.05         | -30    | -14.05 |
| 7779.00                                                                                        | 23.14            | 240              | 1.1        | H     | -81.25      | 8.25  | 35.90        | -53.60         | -30    | -23.60 |
| 7779.00                                                                                        | 28.90            | 316              | 1.9        | V     | -74.62      | 8.25  | 35.90        | -46.97         | -30    | -16.97 |
| High Channel(2687.5MHz)                                                                        |                  |                  |            |       |             |       |              |                |        |        |
| 215.68                                                                                         | 48.54            | 24               | 1.2        | H     | -61.57      | 2.11  | 10.06        | -53.62         | -36    | -17.62 |
| 215.68                                                                                         | 49.10            | 306              | 1.0        | V     | -58.36      | 2.11  | 10.06        | -50.41         | -36    | -14.41 |
| 5375.00                                                                                        | 37.01            | 353              | 1.5        | H     | -74.48      | 6.31  | 31.80        | -48.99         | -30    | -18.99 |
| 5375.00                                                                                        | 40.27            | 110              | 1.1        | V     | -69.86      | 6.31  | 31.80        | -44.37         | -30    | -14.37 |
| 8062.50                                                                                        | 23.54            | 217              | 1.9        | H     | -80.68      | 8.41  | 36.60        | -52.49         | -30    | -22.49 |
| 8062.50                                                                                        | 28.80            | 139              | 1.0        | V     | -74.67      | 8.41  | 36.60        | -46.48         | -30    | -16.48 |
| Note: Absolute Level = SG Level - Cable Loss + Antenna Gain<br>Margin = Absolute Level - Limit |                  |                  |            |       |             |       |              |                |        |        |



## 8 Photographs of test setup and EUT.

Note: Please refer to appendix: Appendix-CVP-0401-Photos.

=====End of Report=====

# WALTEK