# TEST REPORT

Dt&C Co., Ltd.
42, Yurim-ro, 154Beon-gil, Cheoin-gu, Yongin-si, Gyeonggi-do, Korea, 17042
Tel : 031-321-2664, Fax : 031-321-1664

1. Report No : DRTFCC2403-0021

2. Customer

- Name (FCC) : DASAN Networks, Inc. / Name (IC) : DASAN Networks, Inc.
- Address (FCC) : DASAN Tower, 49, Daewangpangyo-ro644Beon-gil, Bundang-gu, Seongnam-si, South Korea 13493

  Address (IC) : DASAN Tower, 49, Daewangpangyo-ro644Beon-gil, Bundang-gu, Seongnam-si/Gyeonggi-do, 13493 Korea (Republic Of)

3. Use of Report : FCC & IC Certification

4. Product Name / Model Name : Telematics Gateway Unit / TGU (300611-02707)
   FCC ID : 2AXDMTGU5GGLOBAL
   IC : 26419-TGU5GGLOBAL

5. FCC Regulation(s): Part 2, 22, 24, 27
   IC Standard(s): 132 Issue 4, 133 Issue 6, 139 Issue 4
   Test Method Used : KDB971168 D01v03, ANSI/TIA-603-E-2016, ANSI C63.26-2015

6. Date of Test : 2023.12.28 ~ 2024.01.12

7. Location of Test : ☒ Permanent Testing Lab ☐ On Site Testing

8. Testing Environment : See appended test report.

9. Test Result : Refer to attached test result.

The results shown in this test report refer only to the sample(s) tested unless otherwise stated.
This test report is not related to KOLAS accreditation.

| | | |
|---|---|---|
| Affirmation | Tested by<br>Name : SeungMin Gil (Signature) | Technical Manager<br>Name : JaeJin Lee (Signature) |

**2024 . 03 . 08 .**

**Dt&C Co., Ltd.**

# Test Report Version

| Test Report No. | Date | Description | Revised by | Reviewed by |
|---|---|---|---|---|
| DRTFCC2403-0021 | Mar. 08, 2024 | Initial issue | SeungMin Gil | JaeJin Lee |
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# 1. GENERAL INFORMATION

| | |
|---|---|
| **Equipment Class** | PCS Licensed Transmitter(PCB) |
| **Product Name** | Telematics Gateway Unit |
| **Model Name** | TGU (300611-02707) |
| **Add Model Name** | - |
| **FVIN(Firmware Version Identification Number)** | V0.03 |
| **EUT Serial Number** | No Specified |
| **Power Supply** | DC 12, 24V |

Antenna Information (WCDMA)

| Band | Internal Chip Antenna 1 (dBi) | External Antenna 1 (dBi) |
|---|---|---|
| 5 (WCDMA 850) | 0.6 | **0.7** |
| 4 (WCMDA 1700) | **2.6** | 0.6 |
| 2 (WCDMA 1900) | **4.4** | 0.6 |

Note: The antenna gain was corrected for path loss from the conducted feed point to the antenna terminal.

| Mode | Tx Frequency (MHz) | Conducted Output Power | | ERP | | EIRP | |
|---|---|---|---|---|---|---|---|
| | | Max power (dBm) | Max power (W) | Max power (dBm) | Max power (W) | Max power (dBm) | Max power (W) |
| WCDMA850 | 826.4 ~ 846.6 | 23.52 | 0.225 | 22.07 | 0.161 | - | - |
| WCDMA1700 | 1 712.4 ~ 1 752.6 | 22.29 | 0.169 | - | - | 24.89 | 0.308 |
| WCDMA1900 | 1 852.4 ~ 1 907.6 | 22.15 | 0.164 | - | - | 26.55 | 0.452 |

# 2. INTRODUCTION

## 2.1. EUT DESCRIPTION

This device supports the following capabilities:
Bluetooth LE, WCDMA, LTE/LTE up-link carrier aggregation, 5G NR(FR1)/5G NR up-link carrier aggregation and ENDC
5G NR supports SCS 15 kHz for FDD Band and SCS 30 kHz for TDD Band.

## 2.2. TESTING ENVIRONMENT

| **Ambient Condition** | |
|---|---|
| ▪ Temperature | +21 ℃ ~ +22 ℃ |
| ▪ Relative Humidity | 38 % ~ 42 % |

## 2.3. MEASURING INSTRUMENT CALIBRATION

The measuring equipment, which was utilized in performing the tests documented herein, has been calibrated in accordance with the manufacturer's recommendations for utilizing calibration equipment, which is traceable to recognized national standards.

## 2.4. MEASUREMENT UNCERTAINTY

The measurement uncertainties shown below were calculated in accordance with requirements of ANSI C63.4-2014. All measurement uncertainty values are shown with a coverage factor of $k$ = 2 to indicate a 95 % level of confidence.

| Parameter | Measurement uncertainty |
|---|---|
| Radiated Disturbance (Below 1 GHz) | 5.0 dB (The confidence level is about 95 %, k = 2) |
| Radiated Disturbance (1 GHz ~ 18 GHz) | 4.8 dB (The confidence level is about 95 %, k = 2) |
| Radiated Disturbance (Above 18 GHz) | 5.0 dB (The confidence level is about 95 %, k = 2) |

## 2.5. TEST FACILITY

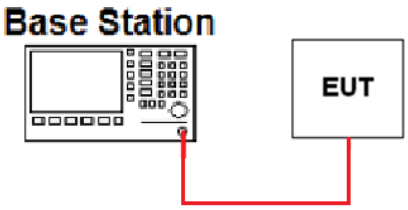
| **Dt&C Co., Ltd.** | | |
|---|---|---|
| The 3 m test site and conducted measurement facility used to collect the radiated data are located at the 42, Yurim-ro, 154beon-gil, Cheoin-gu, Yongin-si, Gyeonggi-do, Korea 17042.<br>The test site complies with the requirements of Part 2.948 according to ANSI C63.4-2014.<br>**- FCC & IC MRA Designation No. : KR0034**<br>**- ISED#: 5740A** | | |
| www.dtnc.net | | |
| Telephone | : | + 82-31-321-2664 |
| FAX | : | + 82-31-321-1664 |

# 3. DESCRIPTION OF TESTS

## 3.1. MAXIMUM OUTPUT POWER

### - Conducted Output Power

### Test Set-up




### Test Procedure

- **KDB971168 D01v03 - Section 5.2**
- **ANSI C63.26-2015 – Section 5.2.4.2**

When an average power meter is used to perform RF output power measurements, the fundamental condition that measurements be performed only over durations of active transmissions at maximum output power level applies. Thus, an average power meter can always be used to perform the measurement when the EUT can be configured to transmit continuously.
If the EUT cannot be configured to transmit continuously (i.e., burst duty cycle < 98%), then the following options can be implemented to facilitate measurement of the average power with an average power meter:
a) A gated average power meter can be used to perform the measurement if the gating parameters can be adjusted such that the power is measured only during active transmission bursts at maximum output power levels.
b) A conventional average power meter with no signal gating capability can also be used if the measured burst duty cycle is constant (i.e., duty cycle variations are less than or equal to ±2%) by performing the measurement over the on/off burst cycles and then correcting (increasing) the measured level by a factor equal to [10 log (1/duty cycle)]. See 5.2.4.3.4 for guidance with respect to measuring the transmitter duty cycle.

### - ERP & EIRP (Effective Radiated Power & Equivalent Isotropic Radiated Power)

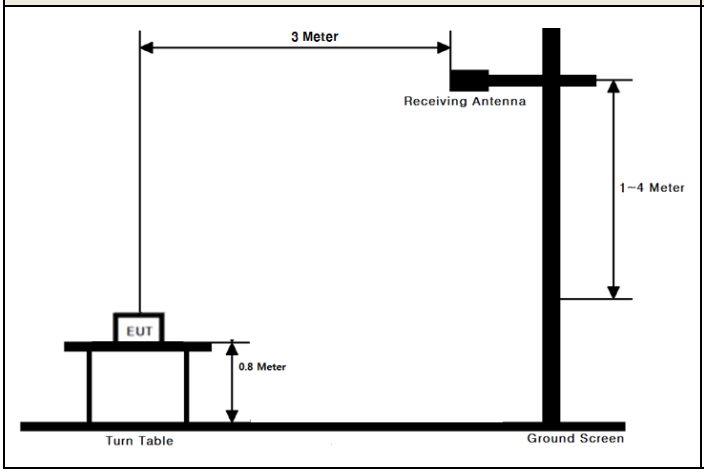
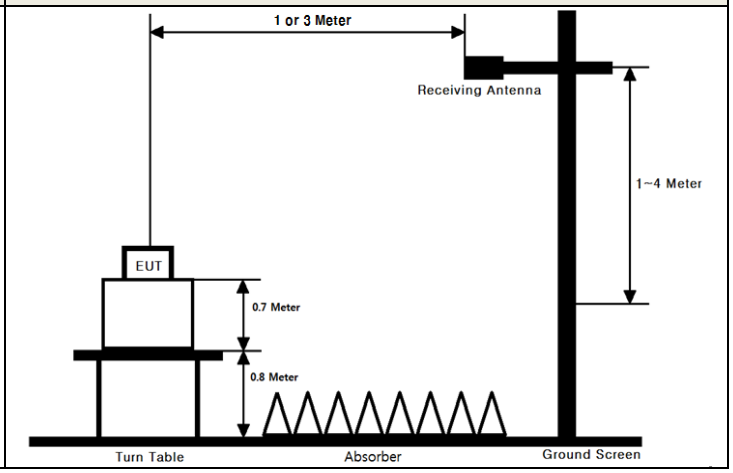
### Test Procedure

- **KDB971168 D01v03 - Section 5.6**
- **ANSI C63.26-2015 – Section 5.2.5.5**

**Determining ERP and EIRP from conducted RF output power measurement results**
ERP or EIRP = $P_{Meas} + G_T - L_C$
where:
ERP or EIRP = effective radiated power or equivalent isotropically radiated power, respectively (expressed in the same units as $P_{Meas}$, typically dBW or dBm);
$P_{Meas}$ = measured transmitter output power or PSD, in dBm or dBW;
$G_T$ = gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP);
$L_C$ = signal attenuation in the connecting cable between the transmitter and antenna, in dB.

## 3.2. UNDESIRABLE EMISSIONS

### Test Set-up

| Below 1GHz | Above 1GHz |
|---|---|
|  |  |



These measurements were performed at 3 test site. The equipment under test is placed on a non-conductive table 0.8 or 1.5 meters above a turntable which is flush with the ground plane and 3 meters from the receive antenna. For measurements above 1 GHz absorbers are placed on the floor between the turn table and the antenna mast in such a way so as to maximize the reduction of reflections. For measurements below 1 GHz, the absorbers are removed.

### Test Procedure

- **KDB971168 D01v03 - Section 5.8**
- **ANSI C63.26-2015 – Section 5.5**

Test setting

1. RBW = 100 kHz for below 1 GHz and 1 MHz for above 1 GHz / VBW ≥ 3 X RBW
2. Detector = RMS & Trace mode = Average
3. Sweep time = Auto couple
4. Number of sweep point ≥ 2 X span / RBW
5. The trace was allowed to stabilize

The receive antenna height and turntable rotations were adjusted for the highest reading on the receive spectrum analyzer.

For radiated power measurements below 1 GHz, a half-wave dipole was substituted in place of the EUT. This dipole antenna was driven by a signal generator and the level of the signal generator was adjusted to obtain the same spectrum analyzer reading.

For radiated power measurements above 1 GHz, a Horn antenna was substituted in place of the EUT. This Horn antenna was driven by a signal generator and the level of the signal generator was adjusted to obtain the same spectrum analyzer reading. The difference between the gain of the horn and an isotropic antenna are taken into consideration.

This measurement was performed with the EUT oriented in 3 orthogonal axis.

# 4. LIST OF TEST EQUIPMENT

| Type | Manufacturer | Model | Cal.Date (yy/mm/dd) | Next.Cal. Date (yy/mm/dd) | S/N |
|---|---|---|---|---|---|
| Spectrum Analyzer | Agilent Technologies | N9020A | 23/12/15 | 24/12/15 | MY50110097 |
| DC power supply | H.P | 6633A | 23/12/15 | 24/12/15 | 3524A06634 |
| Multimeter | FLUKE | 17B+ | 23/12/15 | 24/12/15 | 36390701WS |
| Radio Communication Analyzer | Agilent Technologies | E5515C | 23/12/15 | 24/12/15 | MY48360842 |
| Thermohygrometer | BODYCOM | BJ5478 | 23/12/15 | 24/12/15 | 120612-1 |
| Thermohygrometer | BODYCOM | BJ5478 | 23/12/15 | 24/12/15 | 090205-4 |
| Signal Generator | Rohde Schwarz | SMBV100A | 23/12/15 | 24/12/15 | 255571 |
| Signal Generator | ANRITSU | MG3695C | 23/12/15 | 24/12/15 | 173501 |
| Loop Antenna | ETS-Lindgren | 6502 | 23/11/09 | 24/11/09 | 00060496 |
| Bilog Antenna | Schwarzbeck | VULB 9160 | 23/12/15 | 24/12/15 | 3362 |
| HORN ANT | ETS | 3117 | 23/12/15 | 24/12/15 | 00140394 |
| HORN ANT | A.H.Systems | SAS-574 | 23/06/23 | 24/06/23 | 155 |
| PreAmplifier | H.P | 8447D | 23/12/15 | 24/12/15 | 2944A07774 |
| PreAmplifier | Agilent | 8449B | 23/12/15 | 24/12/15 | 3008A02108 |
| PreAmplifier | A.H.Systems Inc. | PAM-1840VH | 23/06/23 | 24/06/23 | 163 |
| High-pass filter | Wainwright | WHKX12-935-1000-15000-40SS | 23/12/15 | 24/12/15 | 7 |
| High-pass filter | Wainwright | WHKX10-2838-3300-18000-60SS | 23/12/15 | 24/12/15 | 2 |
| High-pass filter | Wainwright | WHKX6-6320-8000-26500-40CC | 23/12/15 | 24/12/15 | 2 |
| Cable | HUBER+SUHNER | SUCOFLEX100 | 24/01/03 | 25/01/03 | M-1 |
| Cable | HUBER+SUHNER | SUCOFLEX100 | 24/01/03 | 25/01/03 | M-2 |
| Cable | JUNKOSHA | MWX241/B | 24/01/03 | 25/01/03 | M-3 |
| Cable | JUNKOSHA | MWX221 | 24/01/03 | 25/01/03 | M-4 |
| Cable | JUNKOSHA | MWX221 | 24/01/03 | 25/01/03 | M-5 |
| Cable | JUNFLON | J12J101757-00 | 24/01/03 | 25/01/03 | M-7 |
| Cable | HUBER+SUHNER | SUCOFLEX104 | 24/01/03 | 25/01/03 | M-8 |
| Cable | HUBER+SUHNER | SUCOFLEX106 | 24/01/03 | 25/01/03 | M-9 |
| Cable | JUNKOSHA | MWX315 | 24/01/03 | 25/01/03 | M-10 |
| Cable | JUNKOSHA | MWX241 | 24/01/03 | 25/01/03 | mmW-1 |
| Cable | JUNKOSHA | MWX241 | 24/01/03 | 25/01/03 | mmW-4 |

Note1: The measurement antennas were calibrated in accordance to the requirements of ANSI C63.5-2017.
Note2: The cable is not a regular calibration item, so it has been calibrated by Dt&C itself.

# 5. SUMMARY OF TEST RESULTS

| FCC Part Section(s) | RSS Section(s) | Parameter | Status Note 1 |
|---|---|---|---|
| 2.1046 | - | Conducted Output Power | **C** |
| 22.913(a)<br>24.232(c)<br>27.50(d.4) | RSS-132 [5.4]<br>RSS-133 [6.4]<br>RSS-139 [5.5] | Effective Radiated Power<br>Equivalent Isotropic Radiated Power | **C** |
| 2.1053<br>22.917(a)<br>24.238(a)<br>27.53(h) | RSS-132 [5.5]<br>RSS-133 [6.5]<br>RSS-139 [5.6] | Undesirable Emissions | **C** |

Note 1: **C**=Comply **NC**=Not Comply **NT**=Not Tested **NA**=Not Applicable
Note 2: This device uses the certified module.(FCC ID: XMR2022RM520NGL, IC: 10224A-022RM520NGL)
Please refer to the module test report for conducted signal test items. The conducted output power was verified to be the same as module.
Note 3: All antenna configuration were investigated and worst case data were reported.

# 6. EMISSION DESIGNATOR AND SAMPLE CALCULATION

## A. For substitution method

1) The EUT was placed on a turntable with 0.8 meter height for frequency below 1GHz and 1.5 meter height for frequency above 1 GHz respectively above ground.
2) The EUT was set 3 meters from the receiving antenna mounted on the antenna tower.
3) Vary the measurement antenna height through 1 m to 4 m and the rotate EUT through 360° in order to determine the maximum emission level.
4) Record the measured emission level and frequency using the available test method.
5) Replace the EUT with dipole/Horn antenna that is connected to a calibrated signal generator.
6) Vary the measurement antenna height between 1 m to 4 m to maximize the received (measured) signal amplitude. And adjust the signal generator output power level until the amplitude detected by the measurement instrument equals the previously measured emission level.
7) The conducted power at the terminal of the substitute antenna is measured.
8) Record the level at substituted antenna terminal.
9) The result is calculated as below;

**EIRP(dBm) = Level at Substitute antenna terminal + Substitute Antenna Gain (dBi)**
**ERP(dBm) = Level at Substitute antenna terminal + Substitute Antenna Gain (dBd)**
**Where, TX Antenna Gain (dBd) = TX Antenna Gain (dBi) - 2.15 dB**

# 7. TEST RESULTS

## 7.1. MAXIMUM OUTPUT POWER

**- Test Notes**

1) EIRP = Conducted Output Power(dBm) + Antenna gain(dBi)
ERP = EIRP – 2.15(dB)

### WCDMA 850 data
### External Antenna 1

| Band | Channel | Frequency (MHz) | Conducted Output Power (dBm) | EUT Antenna Gain(dBi) | EIRP (dBm) | ERP (dBm) |
|---|---|---|---|---|---|---|
| WCDMA 850 | 4132 | 826.4 | 23.45 | 0.7 | 24.15 | 22.00 |
| WCDMA 850 | 4183 | 836.6 | 23.50 | 0.7 | 24.20 | 22.05 |
| WCDMA 850 | 4233 | 846.6 | 23.52 | 0.7 | 24.22 | 22.07 |

### WCDMA 1700 data
### Internal Chip Antenna 1

| Band | Channel | Frequency (MHz) | Conducted Output Power (dBm) | EUT Antenna Gain(dBi) | EIRP (dBm) | ERP (dBm) |
|---|---|---|---|---|---|---|
| WCDMA 1700 | 1312 | 1 712.4 | 22.29 | 2.6 | 24.89 | - |
| WCDMA 1700 | 1412 | 1 732.4 | 22.27 | 2.6 | 24.87 | - |
| WCDMA 1700 | 1513 | 1 752.6 | 22.26 | 2.6 | 24.86 | - |

### WCDMA 1900 data
### Internal Chip Antenna 1

| Band | Channel | Frequency (MHz) | Conducted Output Power (dBm) | EUT Antenna Gain(dBi) | EIRP (dBm) | ERP (dBm) |
|---|---|---|---|---|---|---|
| WCDMA 1900 | 9262 | 1 852.4 | 22.15 | 4.4 | 26.55 | - |
| WCDMA 1900 | 9400 | 1 880.0 | 22.11 | 4.4 | 26.51 | - |
| WCDMA 1900 | 9538 | 1 907.6 | 21.99 | 4.4 | 26.39 | - |

## 7.2. UNDESIRABLE EMISSIONS

**- Test Notes**

1) This EUT was tested under all configurations and the highest power is reported in GSM mode and WCDMA mode with HSDPA inactive at 12.2 kbps RMC and TPC bits set to “1” and in GSM mode using a Power Control Level of “0” in PCS Band and “5” in the Cellular Band.
2) The worst case data is reported.
3) No other spurious and harmonic emissions were reported greater than listed emissions.
4) Limit = -13dBm
5) For Band below 1GHz:
   Result(dBm) = Level at Substitute antenna terminal(dBm) + Substitute Antenna Gain (dBd)
   For Band above 1GHz:
   Result(dBm) = Level at Substitute antenna terminal(dBm) + Substitute Antenna Gain (dBi)

### - WCDMA850 data

### Internal chip antenna 1

| Tx Freq. (MHz) | Freq. (MHz) | Ant Pol (H/V) | Level at Antenna Terminal(dBm) | Substitute Antenna Gain(dBd) | Result (dBm) | Limit (dBm) | Margin (dB) | Note |
|---|---|---|---|---|---|---|---|---|
| 826.4 | 1 654.19 | V | -64.81 | 4.07 | -60.74 | -13.00 | 47.74 | - |
| | 2 478.29 | V | -65.72 | 3.70 | -62.02 | -13.00 | 49.02 | - |
| | 3 306.15 | V | -66.91 | 5.65 | -61.26 | -13.00 | 48.26 | - |
| | 4 131.21 | H | -68.31 | 7.13 | -61.18 | -13.00 | 48.18 | - |
| 836.6 | 1 674.73 | V | -59.67 | 4.00 | -55.67 | -13.00 | 42.67 | - |
| | 2 509.82 | V | -66.24 | 3.64 | -62.60 | -13.00 | 49.60 | - |
| | 3 345.85 | V | -67.08 | 5.81 | -61.27 | -13.00 | 48.27 | - |
| | 4 182.78 | H | -68.20 | 7.19 | -61.01 | -13.00 | 48.01 | - |
| 846.6 | 1 694.97 | V | -56.86 | 3.93 | -52.93 | -13.00 | 39.93 | - |
| | 2 542.82 | V | -64.94 | 3.90 | -61.04 | -13.00 | 48.04 | - |
| | 3 387.13 | V | -67.13 | 5.91 | -61.22 | -13.00 | 48.22 | - |
| | 4 232.54 | H | -67.90 | 7.20 | -60.70 | -13.00 | 47.70 | - |

### External antenna 1

| Tx Freq. (MHz) | Freq. (MHz) | Ant Pol (H/V) | Level at Antenna Terminal(dBm) | Substitute Antenna Gain(dBd) | Result (dBm) | Limit (dBm) | Margin (dB) | Note |
|---|---|---|---|---|---|---|---|---|
| 846.6 | 1 694.73 | V | -63.76 | 3.93 | -59.83 | -13.00 | 46.83 | - |
| | 2 540.07 | V | -65.90 | 3.88 | -62.02 | -13.00 | 49.02 | - |
| | 3 386.33 | V | -66.61 | 5.91 | -60.70 | -13.00 | 47.70 | - |
| | 4 232.08 | H | -67.54 | 7.20 | -60.34 | -13.00 | 47.34 | - |

**- WCDMA1700 data**

**Internal chip antenna 1**

| Tx Freq. (MHz) | Freq. (MHz) | Ant Pol (H/V) | Level at Antenna Terminal(dBm) | Substitute Antenna Gain(dBi) | Result (dBm) | Limit (dBm) | Margin (dB) | Note |
|---|---|---|---|---|---|---|---|---|
| 1 712.4 | 3 422.50 | V | -65.52 | 8.17 | -57.35 | -13.00 | 44.35 | - |
| | 5 134.61 | H | -67.09 | 10.11 | -56.98 | -13.00 | 43.98 | - |
| | 6 850.24 | H | -65.50 | 11.34 | -54.16 | -13.00 | 41.16 | - |
| | 8 562.65 | V | -66.32 | 12.93 | -53.39 | -13.00 | 40.39 | - |
| 1 732.4 | 3 462.93 | V | -66.75 | 8.32 | -58.43 | -13.00 | 45.43 | - |
| | 5 199.42 | H | -66.80 | 10.21 | -56.59 | -13.00 | 43.59 | - |
| | 6 929.96 | H | -65.92 | 11.51 | -54.41 | -13.00 | 41.41 | - |
| | 8 661.40 | V | -66.13 | 12.95 | -53.18 | -13.00 | 40.18 | - |
| 1 752.6 | 3 506.63 | V | -66.74 | 8.48 | -58.26 | -13.00 | 45.26 | - |
| | 5 260.53 | H | -66.84 | 10.22 | -56.62 | -13.00 | 43.62 | - |
| | 7 009.72 | H | -66.53 | 11.58 | -54.95 | -13.00 | 41.95 | - |
| | 8 762.82 | V | -65.82 | 13.00 | -52.82 | -13.00 | 39.82 | - |

**External antenna 1**

| Tx Freq. (MHz) | Freq. (MHz) | Ant Pol (H/V) | Level at Antenna Terminal(dBm) | Substitute Antenna Gain(dBi) | Result (dBm) | Limit (dBm) | Margin (dB) | Note |
|---|---|---|---|---|---|---|---|---|
| 1 752.6 | 3 505.30 | V | -67.03 | 8.48 | -58.55 | -13.00 | 45.55 | - |
| | 5 257.74 | H | -67.17 | 10.22 | -56.95 | -13.00 | 43.95 | - |
| | 7 009.37 | H | -66.42 | 11.58 | -54.84 | -13.00 | 41.84 | - |
| | 8 762.22 | V | -65.78 | 13.00 | -52.78 | -13.00 | 39.78 | - |

**- WCDMA1900 data**
**Internal chip antenna 1**

| Tx Freq. (MHz) | Freq. (MHz) | Ant Pol (H/V) | Level at Antenna Terminal(dBm) | Substitute Antenna Gain(dBi) | Result (dBm) | Limit (dBm) | Margin (dB) | Note |
|---|---|---|---|---|---|---|---|---|
| 1 852.4 | 3 704.69 | V | -67.98 | 8.33 | -59.65 | -13.00 | 46.65 | - |
| | 5 556.33 | H | -66.66 | 10.31 | -56.35 | -13.00 | 43.35 | - |
| | 7 408.05 | H | -67.21 | 12.05 | -55.16 | -13.00 | 42.16 | - |
| | 9 260.60 | V | -63.45 | 13.00 | -50.45 | -13.00 | 37.45 | - |
| 1 880 | 3 760.13 | V | -67.48 | 8.32 | -59.16 | -13.00 | 46.16 | - |
| | 5 640.22 | H | -66.21 | 10.44 | -55.77 | -13.00 | 42.77 | - |
| | 7 519.45 | H | -67.28 | 12.18 | -55.10 | -13.00 | 42.10 | - |
| | 9 400.27 | V | -62.78 | 13.01 | -49.77 | -13.00 | 36.77 | - |
| 1 907.6 | 3 816.83 | V | -67.71 | 8.55 | -59.16 | -13.00 | 46.16 | - |
| | 5 724.82 | H | -65.32 | 10.56 | -54.76 | -13.00 | 41.76 | - |
| | 7 630.27 | H | -67.12 | 12.20 | -54.92 | -13.00 | 41.92 | - |
| | 9 539.57 | V | -62.10 | 13.02 | -49.08 | -13.00 | 36.08 | - |

**External antenna 1**
**- WCDMA1900 data**

| Tx Freq. (MHz) | Freq. (MHz) | Ant Pol (H/V) | Level at Antenna Terminal(dBm) | Substitute Antenna Gain(dBi) | Result (dBm) | Limit (dBm) | Margin (dB) | Note |
|---|---|---|---|---|---|---|---|---|
| 1 907.6 | 3 814.74 | V | -67.32 | 8.54 | -58.78 | -13.00 | 45.78 | - |
| | 5 723.06 | V | -67.35 | 10.56 | -56.79 | -13.00 | 43.79 | - |
| | 7 630.28 | H | -67.30 | 12.20 | -55.10 | -13.00 | 42.10 | - |
| | 9 539.21 | V | -62.27 | 13.02 | -49.25 | -13.00 | 36.25 | - |