

# Radio Test Report

Report No.: STS2407052W02

Issued for

Dikey SAS

Cr 20 # 13-58 INT 429 Bogota, Colombia

Product Name: mobile phone1

Brand Name: DIKEY

Model Name: D8

Series Model(s): D5, D6, D7, D9, D10

FCC ID: 2BHL4-KD89109

Test Standards: 47 CFR Part 2, 22, 24, 27

The test results presented in this report relate only to the object tested. This report shall not be reproduced, except in full, without the written approval of the Shenzhen STS Test Services Co., Ltd.

**TEST REPORT****Applicant's Name** .....: Dikey SAS

Address .....: Cr 20 # 13-58 INT 429 Bogota, Colombia

**Manufacturer's Name** .....: SHEN ZHEN KALIHO TECHNOLOGY CO., LTD

Address .....: Rm 07-08, 23Fl. Chuangjian Bdg. No 6023. Shennan Rd. FuTian District. Shenzhen. China.

**Product Description**

Product Name .....: mobile phone1

Brand Name .....: DIKEY

Model Name .....: D8

Series Model(s) .....: D5, D6, D7, D9, D10

**Test Standards**.....: 47 CFR Part 2, 22, 24, 27

Test Procedure .....: KDB 971168 D01 v03r01,ANSI C63.26( 2015)

This device described above has been tested by STS, the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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**Date of Test**.....:

Date of receipt of test item.....: 10 July 2024

Date (s) of performance of tests.: 10 July 2024 ~ 31 July 2024

Date of Issue .....: 31 July 2024

Test Result .....: Pass

Testing Engineer :

(Lenon Hou)

Technical Manager :

(Chris Chen)

Authorized Signatory :

(Bovey Yang)





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**Revision History**

| Rev. | Issue Date   | Report No.    | Effect Page | Contents      |
|------|--------------|---------------|-------------|---------------|
| 00   | 31 July 2024 | STS2407052W02 | ALL         | Initial Issue |
|      |              |               |             |               |



## SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

The radiated emission testing was performed according to the procedures of KDB 971168 D01 v03r01 and ANSI C63.26( 2015)

| Test Description                       | FCC Rules | Band   | Test Limit               | Test Result |
|----------------------------------------|-----------|--------|--------------------------|-------------|
| Conducted Output Power                 | 2.1046    | /      | Reporting Only           | PASS        |
| Transmitter Radiated Power             | 22.913    | B5     | ERP < 7 Watt             | PASS        |
|                                        | 24.232(c) | B2     | EIRP < 2Watt             |             |
|                                        | 27.50(d)  | B4     | EIRP < 1Watt             |             |
|                                        | 27.50(h)  | B7     | EIRP < 2Watt             |             |
| Peak-to-Average Ratio                  | 22.913(d) | B5     | < 13 dB                  | PASS        |
|                                        | 24.232(d) | B2     |                          |             |
|                                        | 27.50     | B4, B7 |                          |             |
| Occupied Bandwidth                     | 2.1049    | /      | Reporting Only           | PASS        |
| Frequency Stability                    | 2.1055    | /      | < 2.5 ppm                | PASS        |
|                                        | 22.355    | B5     |                          |             |
|                                        | 24.235    | B2     |                          |             |
|                                        | 27.54     | B4, B7 |                          |             |
| Spurious Emission at Antenna Terminals | 2.1051    | /      | < 43+10log10(P[Watts])   | PASS        |
|                                        | 22.917    | B5     |                          |             |
|                                        | 24.238(a) | B2     |                          |             |
|                                        | 27.53(h)  | B4     |                          |             |
|                                        | 27.53(m)  | B7     | < 55+10log10(P[Watts])   |             |
| Band Edge                              | 2.1051    | /      | Please refer to standard | PASS        |
|                                        | 22.917    | B5     |                          |             |
|                                        | 24.238(a) | B2     |                          |             |
|                                        | 27.53(h)  | B4     |                          |             |
|                                        | 27.53(m)  | B7     |                          |             |
| Field Strength of Spurious Radiation   | 2.1053    | /      | < 43+10log10(P[Watts])   | PASS        |
|                                        | 22.917    | B5     |                          |             |
|                                        | 24.238(a) | B2     |                          |             |
|                                        | 27.53(h)  | B4     |                          |             |
|                                        | 27.53(m)  | B7     | < 55+10log10(P[Watts])   |             |



## 1 INTRODUCTION

### 1.1 TEST FACTORY

SHENZHEN STS TEST SERVICES CO., LTD

Add. : 101, Building B, Zhuoke Science Park, No.190 Chongqing Road, ZhanChengShequ, Fuhai Sub-District, Bao'an District, Shenzhen, Guang Dong, China

FCC test Firm Registration Number: 625569

IC test Firm Registration Number: 12108A

A2LA Certificate No.: 4338.01

### 1.2 MEASUREMENT UNCERTAINTY

The measurement uncertainties shown below were calculated in accordance with the 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. The measurement data shown herein meets or exceeds the UCISPR measurement uncertainty values specified in CISPR 16-4-2 and, thus, can be compared directly to specified limits to determine compliance.

| No. | Item                              | Uncertainty          |
|-----|-----------------------------------|----------------------|
| 1   | RF output power, conducted        | $\pm 0.755\text{dB}$ |
| 2   | Unwanted Emissions, conducted     | $\pm 2.874\text{dB}$ |
| 3   | All emissions, radiated 9K-30MHz  | $\pm 3.80\text{dB}$  |
| 4   | All emissions, radiated 30M-1GHz  | $\pm 4.18\text{dB}$  |
| 5   | All emissions, radiated 1G-6GHz   | $\pm 4.90\text{dB}$  |
| 6   | All emissions, radiated >6G       | $\pm 5.24\text{dB}$  |
| 7   | Conducted Emission (9KHz-150KHz)  | $\pm 2.19\text{dB}$  |
| 8   | Conducted Emission (150KHz-30MHz) | $\pm 2.53\text{dB}$  |
| 9   | Occupied Channel Bandwidth        | $\pm 3.5\%$          |
| 10  | Power Spectral Density, conducted | $\pm 1.245\text{dB}$ |
| 11  | Duty Cycle                        | $\pm 3.2\%$          |



## 2 PRODUCT INFORMATION

|                             |                                                                                                                                                                                                                                         |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Name                | mobile phone1                                                                                                                                                                                                                           |
| Brand Name                  | DIKEY                                                                                                                                                                                                                                   |
| Model Name                  | D8                                                                                                                                                                                                                                      |
| Series Model(s)             | D5, D6, D7, D9, D10                                                                                                                                                                                                                     |
| Model Difference            | It's just a different model                                                                                                                                                                                                             |
| Tx Frequency:               | GSM850: 824-849 MHz<br>GSM1900: 1850-1910 MHz<br>WCDMA B2: 1850-1910 MHz<br>WCDMA B5: 824-849 MHz<br>WCDMA B4: 1710-1755 MHz<br>LTE Band 2:1850~1910MHz<br>LTE Band 4:1710~1755MHz<br>LTE Band 5:824~849MHz<br>LTE Band 7:2500~2570MHz  |
| Rx Frequency:               | GSM850: 826-894 MHz<br>GSM1900: 1930-1990 MHz<br>WCDMA B2: 1930-1990 MHz<br>WCDMA B5: 869-894 MHz<br>WCDMA B4: 2110-2155 MHz<br>LTE Band 2:1930 ~1990MHz<br>LTE Band 4:2110~2155MHz<br>LTE Band 5:869~894MHz<br>LTE Band 7:2620~2690MHz |
| Max RF Output Power:        | GSM850:30.39dBm<br>PCS1900:31.31.4dBm<br>WCDMA B2: 23.03 dBm<br>WCDMA B5: 22.99 dBm<br>WCDMA B4: 22.78 dBm<br>LTE Band 2: 23.71 dBm<br>LTE Band 4: 23.71dBm<br>LTE Band 5: 23.87dBm<br>LTE Band 7: 23.04 dBm                            |
| Modulation Characteristics: | GMSK for GSM/GPRS; GMSK and EDGE<br>WCDMA: QPSK; HSDPA:QPSK/16QAM; HSUPA:BPSK<br>LTE: QPSK /16QAM                                                                                                                                       |
| SIM Card:                   | SIM 1 and SIM 2 is a chipset unit and tested as single chipset, SIM 1 is used to tested                                                                                                                                                 |
| Antenna:                    | PIFA                                                                                                                                                                                                                                    |
| Antenna gain:               | GSM 850: -1.13 dBi<br>PCS 1900:0.44 dBi<br>WCDMA B2:0.44 dBi<br>WCDMA B5: -1.13 dBi<br>WCDMA B4:0.32 dBi<br>LTE Band 2:0.44 dBi<br>LTE Band 4:0.32 dBi<br>LTE Band 5:-1.13 dBi<br>LTE Band 7:0.61 dBi                                   |
| Battery parameter:          | Rated Voltage:3.7V<br>Charge Limit Voltage:4.2V<br>Capacity: 1000mAh                                                                                                                                                                    |
| Adapter:                    | Input: AC100-240V, 0.2A,50/60Hz<br>Output:DC5V, 500mA                                                                                                                                                                                   |



|                          |                                       |
|--------------------------|---------------------------------------|
| GPRS/EDGE Class:         | Multi-Class12                         |
| Extreme Vol. Limits:     | DC 3.33V ~ DC 4.07V (Normal: DC 3.7V) |
| Extreme Temp. Tolerance: | -30°C to +50°C                        |
| Hardware version number: | MU0703-MB-V 1.0                       |
| Software version number: | MU0703C_JLK_D8-C_V01                  |

**\*\* Note:** The High Voltage DC 4.07V and Low Voltage DC 3.33V was declared by manufacturer, The EUT couldn't be operate normally with higher or lower voltage, the antenna information refer the manufacturer provide report, applicable only to the tested sample identified in the report.



## 2.1 EMISSION DESIGNATOR

| Mode        | Emission Designator (99%OBW) |                     |
|-------------|------------------------------|---------------------|
| GSM850      | 241KGXW                      |                     |
| GPRS850     | 245KGXW                      |                     |
| EGPRS850    | 248KG7W                      |                     |
| GSM1900     | 243KGXW                      |                     |
| GPRS1900    | 246KGXW                      |                     |
| EGPRS1900   | 247KG7W                      |                     |
| Mode        | Emission Designator (99%OBW) |                     |
| WCDMA Band2 | 4M17F9W                      |                     |
| HSDPA Band2 | 4M17F9W                      |                     |
| HSUPA Band2 | 4M18F9W                      |                     |
| WCDMA Band4 | 4M16F9W                      |                     |
| HSDPA Band4 | 4M16F9W                      |                     |
| HSUPA Band4 | 4M16F9W                      |                     |
| WCDMA Band5 | 4M16F9W                      |                     |
| HSDPA Band5 | 4M16F9W                      |                     |
| HSUPA Band5 | 4M16F9W                      |                     |
| LTE Band 2  | Emission Designator          | Emission Designator |
| BW(MHz)     | (99%OBW)QPSK                 | (99%OBW)16QAM       |
| 1.4         | 1M10G7D                      | 1M11W7D             |
| 3           | 2M72G7D                      | 2M72W7D             |
| 5           | 4M51G7D                      | 4M52W7D             |
| 10          | 9M01G7D                      | \                   |
| 15          | 13M5G7D                      | \                   |
| 20          | 18M0G7D                      | \                   |
| LTE Band 4  | Emission Designator          | Emission Designator |
| BW(MHz)     | (99%OBW)QPSK                 | (99%OBW)16QAM       |
| 1.4         | 1M10G7D                      | 1M10W7D             |
| 3           | 2M71G7D                      | 2M71W7D             |
| 5           | 4M51G7D                      | 4M55W7D             |
| 10          | 9M00G7D                      | \                   |
| 15          | 13M5G7D                      | \                   |
| 20          | 18M0G7D                      | \                   |
| LTE Band 5  | Emission Designator          | Emission Designator |
| BW(MHz)     | (99%OBW)QPSK                 | (99%OBW)16QAM       |
| 1.4         | 1M10G7D                      | 1M10W7D             |
| 3           | 2M71G7D                      | 2M72W7D             |
| 5           | 4M52G7D                      | 4M54W7D             |
| 10          | 9M03G7D                      | \                   |
| LTE Band 7  | Emission Designator          | Emission Designator |
| BW(MHz)     | (99%OBW)QPSK                 | (99%OBW)16QAM       |
| 5           | 4M53G7D                      | 4M54W7D             |
| 10          | 9M03G7D                      | \                   |
| 15          | 13M5G7D                      | \                   |
| 20          | 18M0G7D                      | \                   |



### 3 TEST CONFIGURATION OF EQUIPMENT UNDER TEST

Antenna port conducted and radiated test items were performed according to KDB 971168 D01 and ANSI C63.26 2015 Power Meas. License Digital Systems with maximum output power.

Radiated measurements were performed with rotating EUT in different three orthogonal test planes to find the maximum emission.

Radiated emissions were investigated as following frequency range:

1. 30 MHz to 10th harmonic for GSM850 and WCDMA Band V.
2. 30 MHz to 10th harmonic for WCDMA Band IV.
3. 30 MHz to 10th harmonic for GSM1900 and WCDMA Band II.

All modes and data rates and positions were investigated.

Test modes are chosen to be reported as the worst case configuration below:

|               | TEST MODES                          |                                     |
|---------------|-------------------------------------|-------------------------------------|
|               | RADIATED TCS                        | CONDUCTED TCS                       |
| BAND          |                                     |                                     |
| GSM 850       | GSM LINK<br>GPRS/EDGE CLASS 12 LINK | GSM LINK<br>GPRS/EDGE CLASS 12 LINK |
| GSM 1900      | GSM LINK<br>GPRS/EDGE CLASS 12 LINK | GSM LINK<br>GPRS/EDGE CLASS 12 LINK |
| WCDMA BAND V  | RMC 12.2KBPS LINK                   | RMC 12.2KBPS LINK                   |
| WCDMA BAND II | RMC 12.2KBPS LINK                   | RMC 12.2KBPS LINK                   |
| WCDMA BAND IV | RMC 12.2KBPS LINK                   | RMC 12.2KBPS LINK                   |



LTE:

| ITEMS                       | Band | Bandwidth (MHz) |   |   |    |    |    | Modulation |       | RB # |      |      | Test Channel |   |   |
|-----------------------------|------|-----------------|---|---|----|----|----|------------|-------|------|------|------|--------------|---|---|
|                             |      | 1.4             | 3 | 5 | 10 | 15 | 20 | QPSK       | 16QAM | 1    | Half | Full | L            | M | H |
| Max. Output Power           | 2    | v               | v | v | v  | v  | v  | v          | v     | v    | v    | v    | v            | v | v |
|                             | 4    | v               | v | v | v  | v  | v  | v          | v     | v    | v    | v    | v            | v | v |
|                             | 5    | v               | v | v | v  |    |    | v          | v     | v    | v    | v    | v            | v | v |
|                             | 7    |                 |   | v | v  | v  | v  | v          | v     | v    | v    | v    | v            | v | v |
| Peak&Avera Ratio            | 2    | v               | v | v | v  | v  | v  | v          | v     | v    |      |      | v            | v | v |
|                             | 4    | v               | v | v | v  | v  | v  | v          | v     | v    |      |      | v            | v | v |
|                             | 5    | v               | v | v | v  |    |    | v          | v     | v    |      |      | v            | v | v |
|                             | 7    |                 |   | v | v  | v  | v  | v          | v     | v    |      |      | v            | v | v |
| 26dB&99% Bandwidth          | 2    | v               | v | v | v  | v  | v  | v          | v     |      |      | v    | v            | v | v |
|                             | 4    | v               | v | v | v  | v  | v  | v          | v     |      |      | v    | v            | v | v |
|                             | 5    | v               | v | v | v  |    |    | v          | v     |      |      | v    | v            | v | v |
|                             | 7    |                 |   | v | v  | v  | v  | v          | v     |      |      | v    | v            | v | v |
| Conducted Band Edge         | 2    | v               | v | v | v  | v  | v  | v          | v     |      |      | v    | v            |   | v |
|                             | 4    | v               | v | v | v  | v  | v  | v          | v     |      |      | v    | v            |   | v |
|                             | 5    | v               | v | v | v  |    |    | v          | v     |      |      | v    | v            |   | v |
|                             | 7    |                 |   | v | v  | v  | v  | v          | v     |      |      | v    | v            |   | v |
| Conducted Spurious Emission | 2    | v               | v | v | v  | v  | v  | v          | v     | v    |      | v    | v            | v | v |
|                             | 4    | v               | v | v | v  | v  | v  | v          | v     | v    |      | v    | v            | v | v |
|                             | 5    | v               | v | v | v  |    |    | v          | v     | v    |      | v    | v            | v | v |
|                             | 7    |                 |   | v | v  | v  | v  | v          | v     | v    |      | v    | v            | v | v |
| Frequency Stability         | 2    |                 |   |   | v  |    |    | v          |       |      |      | v    |              | v |   |
|                             | 4    |                 |   |   | v  |    |    | v          |       |      |      | v    |              | v |   |
|                             | 5    |                 |   |   | v  |    |    | v          |       |      |      | v    |              | v |   |
|                             | 7    |                 |   |   | v  |    |    | v          |       |      |      | v    |              | v |   |
| E.R.P.& E.I.R.P.            | 2    | v               | v | v | v  | v  | v  | v          | v     | v    | v    | v    | v            | v | v |
|                             | 4    | v               | v | v | v  | v  | v  | v          | v     | v    | v    | v    | v            | v | v |
|                             | 5    | v               | v | v | v  |    |    | v          | v     | v    | v    | v    | v            | v | v |
|                             | 7    |                 |   | v | v  | v  | v  | v          | v     | v    | v    | v    | v            | v | v |
| Radiated Spurious Emission  | 2    | v               | v | v | v  | v  | v  | v          |       | v    |      |      | v            | v | v |
|                             | 4    | v               | v | v | v  | v  | v  | v          |       | v    |      |      | v            | v | v |
|                             | 5    | v               | v | v | v  |    |    | v          |       | v    |      |      | v            | v | v |
|                             | 7    |                 |   | v | v  | v  | v  | v          |       | v    |      |      | v            | v | v |



## 4 MEASUREMENT INSTRUMENTS

| RF Radiation Test Equipment         |                   |                    |                 |                  |                  |
|-------------------------------------|-------------------|--------------------|-----------------|------------------|------------------|
| Kind of Equipment                   | Manufacturer      | Type No.           | Serial No.      | Last Calibration | Calibrated Until |
| Temperature & Humidity              | SW-108            | SuWei              | N/A             | 2024.03.15       | 2025.03.14       |
| Wireless Communications Test Set    | R&S               | CMW 500            | 117239          | 2023.09.26       | 2024.09.25       |
| Pre-Amplifier(0.1M-3GHz)            | EM                | EM330              | 060665          | 2024.02.23       | 2025.02.22       |
| Pre-Amplifier (1G-18GHz)            | SKET              | LNPA-01018G-45     | SK2018080901    | 2023.09.26       | 2024.09.25       |
| Positioning Controller              | MF                | MF-7802            | MF-780208587    | N/A              | N/A              |
| Signal Analyzer                     | R&S               | FSV 40-N           | 101823          | 2023.09.26       | 2024.09.25       |
| Switch Control Box                  | N/A               | N/A                | N/A             | N/A              | N/A              |
| Filter Box                          | BALUN Technology  | SU319E             | BL-SZ1530051    | N/A              | N/A              |
| Video Controller                    | SKET              | FCS C-3            | N/A             | N/A              | N/A              |
| Bilog Antenna                       | TESEQ             | CBL6111D           | 34678           | 2022.09.30       | 2024.09.29       |
| Horn Antenna                        | SCHWARZBECK       | BBHA 9120D         | 02014           | 2023.09.24       | 2025.09.23       |
| Antenna Mast                        | MF                | MFA-440H           | N/A             | N/A              | N/A              |
| Turn Table                          | MF                | N/A                | N/A             | N/A              | N/A              |
| AC Power Source                     | APC               | KDF-11010G         | F214050035      | N/A              | N/A              |
| DC Power Supply                     | Zhaoxin           | RXN 605D           | 20R605D11010081 | N/A              | N/A              |
| Test SW                             | EMC Test Software | 15.2.0.339         |                 |                  |                  |
|                                     | EZ-EMC            | Ver.STSLAB-03A1 RE |                 |                  |                  |
| RF Connected Test Equipment         |                   |                    |                 |                  |                  |
| Kind of Equipment                   | Manufacturer      | Type No.           | Serial No.      | Last Calibration | Calibrated Until |
| Temperature & Humidity              | SW-108            | SuWei              | N/A             | 2024.03.15       | 2025.03.14       |
| Wireless Communications Test Set    | R&S               | CMW 500            | 131428          | 2024.02.23       | 2025.02.22       |
| Signal Analyzer                     | Agilent           | N9020A             | MY52440124      | 2024.02.23       | 2025.02.22       |
| RF Automatic Test System            | Maiwei            | MW200-SFCB         | N/A             | N/A              | N/A              |
| Temperature & Humidity Test Chamber | Safety test       | AG80L              | 171200018       | 2024.02.23       | 2025.02.22       |
| Programmable Power Supply           | Agilent           | E3642A             | MY40002025      | 2023.09.26       | 2024.09.25       |
| Test SW                             | MTS 8200          | 2.0.0.0            |                 |                  |                  |

## 5 TEST ITEMS

### 5.1 CONDUCTED OUTPUT POWER&TRANSMITTER RADIATED POWER

#### TEST OVERVIEW

##### CONDUCTED OUTPUT POWER:

A system simulator was used to establish communication with the EUT. Its parameters were set to enforce EUT transmitting at the maximum power. The measured power in the radio frequency on the transmitter output terminals shall be reported.

##### TRANSMITTER RADIATED POWER (EIRP/ERP)

Determining ERP and/or EIRP from conducted RF output power measurements according to ANSI C63.26 2015 Section 5.2.5.5.

In many cases, RF output power limits are specified in terms of the ERP or the EIRP. Typically, ERP is specified when the operating frequency is less than or equal to 1 GHz and EIRP is specified when the operating frequency is greater than 1 GHz. Both are defined as the product of the power supplied to the antenna and its gain (relative to a dipole antenna in the case of ERP, and relative to an isotropic antenna in the case of EIRP); however, when working in decibels (i.e., logarithmic scale), the ERP and EIRP represent the sum of the transmit antenna gain (in dBd or dBi, respectively) and the conducted RF output power (expressed in dB relative to watts or milliwatts).

The relevant equation for determining the maximum ERP or EIRP from the measured RF output power is given in Equation (1) as follows:

$$(1) \text{ ERP or EIRP} = \text{PMeas} + \text{GT}$$

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

where

ERP or EIRP effective radiated power or equivalent isotropically radiated power, respectively (expressed in the same units as PMeas, e.g., dBm or dBW)

PMeas measured transmitter output power or PSD, in dBm or dBW

GT gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP)

For devices utilizing multiple antennas, see 6.4 for guidance with respect to determining the effective array transmit antenna gain term to be used in the above equation.

The following equations demonstrate the mathematical relationship between ERP and EIRP:

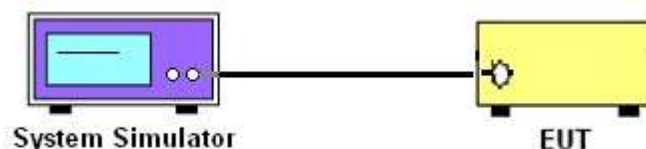
a)  $\text{ERP} = \text{EIRP} - 2.15$ , where ERP and EIRP are expressed in consistent units.

b)  $\text{EIRP} = \text{ERP} + 2.15$ , where ERP and EIRP are expressed in consistent units.

#### TEST PROCEDURES

1. The transmitter output port was connected to the system simulator.
2. Set eut at maximum power through the system simulator.
3. Select lowest, middle, and highest channels for each band and different modulation.
4. Measure and record the power level from the system simulator.

#### TEST SETUP



TEST RESULT

| GSM 850             |                 |                           |                |           |               |                 |            |
|---------------------|-----------------|---------------------------|----------------|-----------|---------------|-----------------|------------|
| Mode                | Frequency (MHz) | Conduction AVG Power(dBm) | Ant Gain (dBi) | ERP (dBm) | ERP Limit (W) | ERP Limit (dBm) | Conclusion |
| GSM (GMSK,1-Slot)   | 824.2           | 33.67                     | -1.13          | 30.39     | 7.00          | 38.45           | PASS       |
|                     | 836.6           | 33.61                     | -1.13          | 30.33     | 7.00          | 38.45           | PASS       |
|                     | 848.8           | 33.65                     | -1.13          | 30.37     | 7.00          | 38.45           | PASS       |
| GPRS (GMSK,1-Slot)  | 824.2           | 33.66                     | -1.13          | 30.38     | 7.00          | 38.45           | PASS       |
|                     | 836.6           | 33.60                     | -1.13          | 30.32     | 7.00          | 38.45           | PASS       |
|                     | 848.8           | 33.65                     | -1.13          | 30.37     | 7.00          | 38.45           | PASS       |
| GPRS (GMSK,2-Slot)  | 824.2           | 31.49                     | -1.13          | 28.21     | 7.00          | 38.45           | PASS       |
|                     | 836.6           | 31.52                     | -1.13          | 28.24     | 7.00          | 38.45           | PASS       |
|                     | 848.8           | 31.43                     | -1.13          | 28.15     | 7.00          | 38.45           | PASS       |
| GPRS (GMSK,3-Slot)  | 824.2           | 29.59                     | -1.13          | 26.31     | 7.00          | 38.45           | PASS       |
|                     | 836.6           | 29.60                     | -1.13          | 26.32     | 7.00          | 38.45           | PASS       |
|                     | 848.8           | 29.40                     | -1.13          | 26.12     | 7.00          | 38.45           | PASS       |
| GPRS (GMSK,4-Slot)  | 824.2           | 27.65                     | -1.13          | 24.37     | 7.00          | 38.45           | PASS       |
|                     | 836.6           | 27.70                     | -1.13          | 24.42     | 7.00          | 38.45           | PASS       |
|                     | 848.8           | 27.49                     | -1.13          | 24.21     | 7.00          | 38.45           | PASS       |
| EGPRS (GMSK,1-Slot) | 824.2           | 20.88                     | -1.13          | 17.60     | 7.00          | 38.45           | PASS       |
|                     | 836.6           | 22.76                     | -1.13          | 19.48     | 7.00          | 38.45           | PASS       |
|                     | 848.8           | 21.76                     | -1.13          | 18.48     | 7.00          | 38.45           | PASS       |
| EGPRS (GMSK,2-Slot) | 824.2           | 19.76                     | -1.13          | 16.48     | 7.00          | 38.45           | PASS       |
|                     | 836.6           | 22.13                     | -1.13          | 18.85     | 7.00          | 38.45           | PASS       |
|                     | 848.8           | 20.62                     | -1.13          | 17.34     | 7.00          | 38.45           | PASS       |
| EGPRS (GMSK,3-Slot) | 824.2           | 18.16                     | -1.13          | 14.88     | 7.00          | 38.45           | PASS       |
|                     | 836.6           | 20.87                     | -1.13          | 17.59     | 7.00          | 38.45           | PASS       |
|                     | 848.8           | 18.91                     | -1.13          | 15.63     | 7.00          | 38.45           | PASS       |
| EGPRS (GMSK,4-Slot) | 824.2           | 16.15                     | -1.13          | 12.87     | 7.00          | 38.45           | PASS       |
|                     | 836.6           | 18.96                     | -1.13          | 15.68     | 7.00          | 38.45           | PASS       |
|                     | 848.8           | 16.86                     | -1.13          | 13.58     | 7.00          | 38.45           | PASS       |



| PCS 1900            |                 |                           |                |            |                |                  |            |
|---------------------|-----------------|---------------------------|----------------|------------|----------------|------------------|------------|
| Mode                | Frequency (MHz) | Conduction AVG Power(dBm) | Ant Gain (dBi) | EIRP (dBm) | EIRP Limit (W) | EIRP Limit (dBm) | Conclusion |
| GSM (GMSK,1-Slot)   | 1850.2          | 30.96                     | 0.44           | 31.40      | 2.00           | 33.01            | PASS       |
|                     | 1880.0          | 30.92                     | 0.44           | 31.36      | 2.00           | 33.01            | PASS       |
|                     | 1909.8          | 30.83                     | 0.44           | 31.27      | 2.00           | 33.01            | PASS       |
| GPRS (GMSK,1-Slot)  | 1850.2          | 30.81                     | 0.44           | 31.25      | 2.00           | 33.01            | PASS       |
|                     | 1880.0          | 30.79                     | 0.44           | 31.23      | 2.00           | 33.01            | PASS       |
|                     | 1909.8          | 30.66                     | 0.44           | 31.10      | 2.00           | 33.01            | PASS       |
| GPRS (GMSK,2-Slot)  | 1850.2          | 28.54                     | 0.44           | 28.98      | 2.00           | 33.01            | PASS       |
|                     | 1880.0          | 28.56                     | 0.44           | 29.00      | 2.00           | 33.01            | PASS       |
|                     | 1909.8          | 28.49                     | 0.44           | 28.93      | 2.00           | 33.01            | PASS       |
| GPRS (GMSK,3-Slot)  | 1850.2          | 26.88                     | 0.44           | 27.32      | 2.00           | 33.01            | PASS       |
|                     | 1880.0          | 26.89                     | 0.44           | 27.33      | 2.00           | 33.01            | PASS       |
|                     | 1909.8          | 26.87                     | 0.44           | 27.31      | 2.00           | 33.01            | PASS       |
| GPRS (GMSK,4-Slot)  | 1850.2          | 24.66                     | 0.44           | 25.10      | 2.00           | 33.01            | PASS       |
|                     | 1880.0          | 24.66                     | 0.44           | 25.10      | 2.00           | 33.01            | PASS       |
|                     | 1909.8          | 24.58                     | 0.44           | 25.02      | 2.00           | 33.01            | PASS       |
| EGPRS (GMSK,1-Slot) | 1850.2          | 28.24                     | 0.44           | 28.68      | 2.00           | 33.01            | PASS       |
|                     | 1880.0          | 28.47                     | 0.44           | 28.91      | 2.00           | 33.01            | PASS       |
|                     | 1909.8          | 28.47                     | 0.44           | 28.91      | 2.00           | 33.01            | PASS       |
| EGPRS (GMSK,2-Slot) | 1850.2          | 26.52                     | 0.44           | 26.96      | 2.00           | 33.01            | PASS       |
|                     | 1880.0          | 26.91                     | 0.44           | 27.35      | 2.00           | 33.01            | PASS       |
|                     | 1909.8          | 26.96                     | 0.44           | 27.40      | 2.00           | 33.01            | PASS       |
| EGPRS (GMSK,3-Slot) | 1850.2          | 24.81                     | 0.44           | 25.25      | 2.00           | 33.01            | PASS       |
|                     | 1880.0          | 25.18                     | 0.44           | 25.62      | 2.00           | 33.01            | PASS       |
|                     | 1909.8          | 25.29                     | 0.44           | 25.73      | 2.00           | 33.01            | PASS       |
| EGPRS (GMSK,4-Slot) | 1850.2          | 22.68                     | 0.44           | 23.12      | 2.00           | 33.01            | PASS       |
|                     | 1880.0          | 23.01                     | 0.44           | 23.45      | 2.00           | 33.01            | PASS       |
|                     | 1909.8          | 23.05                     | 0.44           | 23.49      | 2.00           | 33.01            | PASS       |



| Radiated Power (EIRP) for WCDMA Band 2 |                 |                           |                |            |               |                  |            |
|----------------------------------------|-----------------|---------------------------|----------------|------------|---------------|------------------|------------|
| Mode                                   | Frequency (MHz) | Conduction AVG Power(dBm) | Ant Gain (dBi) | EIRP (dBm) | EIRP Limit(W) | EIRP Limit (dBm) | Conclusion |
| WCDMA                                  | 1852.40         | 22.84                     | 0.44           | 23.28      | 2.00          | 33.01            | PASS       |
|                                        | 1880.00         | 22.92                     | 0.44           | 23.36      | 2.00          | 33.01            | PASS       |
|                                        | 1907.60         | 23.03                     | 0.44           | 23.47      | 2.00          | 33.01            | PASS       |
| HSDPA Subtest 1                        | 1852.40         | 21.67                     | 0.44           | 22.11      | 2.00          | 33.01            | PASS       |
|                                        | 1880.00         | 21.52                     | 0.44           | 21.96      | 2.00          | 33.01            | PASS       |
|                                        | 1907.60         | 20.95                     | 0.44           | 21.39      | 2.00          | 33.01            | PASS       |
| HSDPA Subtest 2                        | 1852.40         | 20.90                     | 0.44           | 21.34      | 2.00          | 33.01            | PASS       |
|                                        | 1880.00         | 20.34                     | 0.44           | 20.78      | 2.00          | 33.01            | PASS       |
|                                        | 1907.60         | 19.98                     | 0.44           | 20.42      | 2.00          | 33.01            | PASS       |
| HSDPA Subtest 3                        | 1852.40         | 19.92                     | 0.44           | 20.36      | 2.00          | 33.01            | PASS       |
|                                        | 1880.00         | 19.73                     | 0.44           | 20.17      | 2.00          | 33.01            | PASS       |
|                                        | 1907.60         | 20.48                     | 0.44           | 20.92      | 2.00          | 33.01            | PASS       |
| HSDPA Subtest 4                        | 1852.40         | 20.24                     | 0.44           | 20.68      | 2.00          | 33.01            | PASS       |
|                                        | 1880.00         | 19.97                     | 0.44           | 20.41      | 2.00          | 33.01            | PASS       |
|                                        | 1907.60         | 20.01                     | 0.44           | 20.45      | 2.00          | 33.01            | PASS       |
| HSUPA Subtest 1                        | 1852.40         | 21.46                     | 0.44           | 21.90      | 2.00          | 33.01            | PASS       |
|                                        | 1880.00         | 21.57                     | 0.44           | 22.01      | 2.00          | 33.01            | PASS       |
|                                        | 1907.60         | 21.50                     | 0.44           | 21.94      | 2.00          | 33.01            | PASS       |
| HSUPA Subtest 2                        | 1852.40         | 21.63                     | 0.44           | 22.07      | 2.00          | 33.01            | PASS       |
|                                        | 1880.00         | 21.34                     | 0.44           | 21.78      | 2.00          | 33.01            | PASS       |
|                                        | 1907.60         | 20.28                     | 0.44           | 20.72      | 2.00          | 33.01            | PASS       |
| HSUPA Subtest 3                        | 1852.40         | 20.29                     | 0.44           | 20.73      | 2.00          | 33.01            | PASS       |
|                                        | 1880.00         | 19.72                     | 0.44           | 20.16      | 2.00          | 33.01            | PASS       |
|                                        | 1907.60         | 20.24                     | 0.44           | 20.68      | 2.00          | 33.01            | PASS       |
| HSUPA Subtest 4                        | 1852.40         | 20.09                     | 0.44           | 20.53      | 2.00          | 33.01            | PASS       |
|                                        | 1880.00         | 20.11                     | 0.44           | 20.55      | 2.00          | 33.01            | PASS       |
|                                        | 1907.60         | 20.41                     | 0.44           | 20.85      | 2.00          | 33.01            | PASS       |
| HSUPA Subtest 5                        | 1852.40         | 19.99                     | 0.44           | 20.43      | 2.00          | 33.01            | PASS       |
|                                        | 1880.00         | 20.36                     | 0.44           | 20.80      | 2.00          | 33.01            | PASS       |
|                                        | 1907.60         | 20.11                     | 0.44           | 20.55      | 2.00          | 33.01            | PASS       |



| Radiated Power (EIRP) for WCDMA Band 4 |                 |                           |                |            |               |                  |            |
|----------------------------------------|-----------------|---------------------------|----------------|------------|---------------|------------------|------------|
| Mode                                   | Frequency (MHz) | Conduction AVG Power(dBm) | Ant Gain (dBi) | EIRP (dBm) | EIRP Limit(W) | EIRP Limit (dBm) | Conclusion |
| WCDMA                                  | 1712.40         | 22.71                     | 0.32           | 23.03      | 1.00          | 30.00            | PASS       |
|                                        | 1740.00         | 22.69                     | 0.32           | 23.01      | 1.00          | 30.00            | PASS       |
|                                        | 1752.60         | 22.78                     | 0.32           | 23.10      | 1.00          | 30.00            | PASS       |
| HSDPA Subtest 1                        | 1712.40         | 21.47                     | 0.32           | 21.79      | 1.00          | 30.00            | PASS       |
|                                        | 1740.00         | 21.23                     | 0.32           | 21.55      | 1.00          | 30.00            | PASS       |
|                                        | 1752.60         | 20.91                     | 0.32           | 21.23      | 1.00          | 30.00            | PASS       |
| HSDPA Subtest 2                        | 1712.40         | 20.93                     | 0.32           | 21.25      | 1.00          | 30.00            | PASS       |
|                                        | 1740.00         | 19.86                     | 0.32           | 20.18      | 1.00          | 30.00            | PASS       |
|                                        | 1752.60         | 19.66                     | 0.32           | 19.98      | 1.00          | 30.00            | PASS       |
| HSDPA Subtest 3                        | 1712.40         | 19.40                     | 0.32           | 19.72      | 1.00          | 30.00            | PASS       |
|                                        | 1740.00         | 19.10                     | 0.32           | 19.42      | 1.00          | 30.00            | PASS       |
|                                        | 1752.60         | 20.46                     | 0.32           | 20.78      | 1.00          | 30.00            | PASS       |
| HSDPA Subtest 4                        | 1712.40         | 20.11                     | 0.32           | 20.43      | 1.00          | 30.00            | PASS       |
|                                        | 1740.00         | 19.58                     | 0.32           | 19.90      | 1.00          | 30.00            | PASS       |
|                                        | 1752.60         | 20.01                     | 0.32           | 20.33      | 1.00          | 30.00            | PASS       |
| HSUPA Subtest 1                        | 1712.40         | 21.35                     | 0.32           | 21.67      | 1.00          | 30.00            | PASS       |
|                                        | 1740.00         | 21.42                     | 0.32           | 21.74      | 1.00          | 30.00            | PASS       |
|                                        | 1752.60         | 20.98                     | 0.32           | 21.30      | 1.00          | 30.00            | PASS       |
| HSUPA Subtest 2                        | 1712.40         | 21.47                     | 0.32           | 21.79      | 1.00          | 30.00            | PASS       |
|                                        | 1740.00         | 21.30                     | 0.32           | 21.62      | 1.00          | 30.00            | PASS       |
|                                        | 1752.60         | 19.61                     | 0.32           | 19.93      | 1.00          | 30.00            | PASS       |
| HSUPA Subtest 3                        | 1712.40         | 19.80                     | 0.32           | 20.12      | 1.00          | 30.00            | PASS       |
|                                        | 1740.00         | 19.46                     | 0.32           | 19.78      | 1.00          | 30.00            | PASS       |
|                                        | 1752.60         | 19.90                     | 0.32           | 20.22      | 1.00          | 30.00            | PASS       |
| HSUPA Subtest 4                        | 1712.40         | 19.73                     | 0.32           | 20.05      | 1.00          | 30.00            | PASS       |
|                                        | 1740.00         | 20.39                     | 0.32           | 20.71      | 1.00          | 30.00            | PASS       |
|                                        | 1752.60         | 20.32                     | 0.32           | 20.64      | 1.00          | 30.00            | PASS       |
| HSUPA Subtest 5                        | 1712.40         | 19.95                     | 0.32           | 20.27      | 1.00          | 30.00            | PASS       |
|                                        | 1740.00         | 20.49                     | 0.32           | 20.81      | 1.00          | 30.00            | PASS       |
|                                        | 1752.60         | 20.06                     | 0.32           | 20.38      | 1.00          | 30.00            | PASS       |



| Radiated Power (ERP) for WCDMA Band 5 |                 |                           |                |           |              |                 |            |
|---------------------------------------|-----------------|---------------------------|----------------|-----------|--------------|-----------------|------------|
| Mode                                  | Frequency (MHz) | Conduction AVG Power(dBm) | Ant Gain (dBi) | ERP (dBm) | ERP Limit(W) | ERP Limit (dBm) | Conclusion |
| WCDMA                                 | 826.40          | 22.89                     | -1.13          | 19.61     | 7.00         | 38.45           | PASS       |
|                                       | 836.40          | 22.99                     | -1.13          | 19.71     | 7.00         | 38.45           | PASS       |
|                                       | 846.60          | 22.91                     | -1.13          | 19.63     | 7.00         | 38.45           | PASS       |
| HSDPA Subtest 1                       | 826.40          | 22.54                     | -1.13          | 19.26     | 7.00         | 38.45           | PASS       |
|                                       | 836.40          | 22.06                     | -1.13          | 18.78     | 7.00         | 38.45           | PASS       |
|                                       | 846.60          | 21.90                     | -1.13          | 18.62     | 7.00         | 38.45           | PASS       |
| HSDPA Subtest 2                       | 826.40          | 21.83                     | -1.13          | 18.55     | 7.00         | 38.45           | PASS       |
|                                       | 836.40          | 22.15                     | -1.13          | 18.87     | 7.00         | 38.45           | PASS       |
|                                       | 846.60          | 21.92                     | -1.13          | 18.64     | 7.00         | 38.45           | PASS       |
| HSDPA Subtest 3                       | 826.40          | 21.69                     | -1.13          | 18.41     | 7.00         | 38.45           | PASS       |
|                                       | 836.40          | 21.11                     | -1.13          | 17.83     | 7.00         | 38.45           | PASS       |
|                                       | 846.60          | 22.44                     | -1.13          | 19.16     | 7.00         | 38.45           | PASS       |
| HSDPA Subtest 4                       | 826.40          | 22.15                     | -1.13          | 18.87     | 7.00         | 38.45           | PASS       |
|                                       | 836.40          | 21.96                     | -1.13          | 18.68     | 7.00         | 38.45           | PASS       |
|                                       | 846.60          | 21.83                     | -1.13          | 18.55     | 7.00         | 38.45           | PASS       |
| HSUPA Subtest 1                       | 826.40          | 22.50                     | -1.13          | 19.22     | 7.00         | 38.45           | PASS       |
|                                       | 836.40          | 22.48                     | -1.13          | 19.20     | 7.00         | 38.45           | PASS       |
|                                       | 846.60          | 22.06                     | -1.13          | 18.78     | 7.00         | 38.45           | PASS       |
| HSUPA Subtest 2                       | 826.40          | 22.44                     | -1.13          | 19.16     | 7.00         | 38.45           | PASS       |
|                                       | 836.40          | 22.39                     | -1.13          | 19.11     | 7.00         | 38.45           | PASS       |
|                                       | 846.60          | 21.86                     | -1.13          | 18.58     | 7.00         | 38.45           | PASS       |
| HSUPA Subtest 3                       | 826.40          | 22.02                     | -1.13          | 18.74     | 7.00         | 38.45           | PASS       |
|                                       | 836.40          | 21.66                     | -1.13          | 18.38     | 7.00         | 38.45           | PASS       |
|                                       | 846.60          | 22.03                     | -1.13          | 18.75     | 7.00         | 38.45           | PASS       |
| HSUPA Subtest 4                       | 826.40          | 22.10                     | -1.13          | 18.82     | 7.00         | 38.45           | PASS       |
|                                       | 836.40          | 22.27                     | -1.13          | 18.99     | 7.00         | 38.45           | PASS       |
|                                       | 846.60          | 22.45                     | -1.13          | 19.17     | 7.00         | 38.45           | PASS       |
| HSUPA Subtest 5                       | 826.40          | 21.87                     | -1.13          | 18.59     | 7.00         | 38.45           | PASS       |
|                                       | 836.40          | 22.39                     | -1.13          | 19.11     | 7.00         | 38.45           | PASS       |
|                                       | 846.60          | 22.32                     | -1.13          | 19.04     | 7.00         | 38.45           | PASS       |



| Radiated Power (EIRP) for LTE Band 2 /1.4M |            |         |           |            |                           |                |            |               |                 |         |
|--------------------------------------------|------------|---------|-----------|------------|---------------------------|----------------|------------|---------------|-----------------|---------|
| BW (MHz)                                   | UL Channel | RB Size | RB offset | Modulation | Conduction AVG Power(dBm) | Ant Gain (dBi) | EIRP (dBm) | EIRP Limit(W) | EIRP Limit(dBm) | Verdict |
| 1.4                                        | Lowest     | 1       | 0         | QPSK       | 23.72                     | 0.44           | 24.16      | 2.00          | 33.01           | PASS    |
|                                            |            | 1       | 2         |            | 23.71                     | 0.44           | 24.15      | 2.00          | 33.01           | PASS    |
|                                            |            | 1       | 5         |            | 23.75                     | 0.44           | 24.19      | 2.00          | 33.01           | PASS    |
|                                            |            | 3       | 0         |            | 23.43                     | 0.44           | 23.87      | 2.00          | 33.01           | PASS    |
|                                            |            | 3       | 1         |            | 23.44                     | 0.44           | 23.88      | 2.00          | 33.01           | PASS    |
|                                            |            | 3       | 2         |            | 23.37                     | 0.44           | 23.81      | 2.00          | 33.01           | PASS    |
|                                            |            | 6       | 0         |            | 22.32                     | 0.44           | 22.76      | 2.00          | 33.01           | PASS    |
|                                            |            | 1       | 0         | 16QAM      | 23.30                     | 0.44           | 23.74      | 2.00          | 33.01           | PASS    |
|                                            |            | 1       | 2         |            | 23.26                     | 0.44           | 23.70      | 2.00          | 33.01           | PASS    |
|                                            |            | 1       | 5         |            | 23.31                     | 0.44           | 23.75      | 2.00          | 33.01           | PASS    |
|                                            |            | 3       | 0         |            | 22.40                     | 0.44           | 22.84      | 2.00          | 33.01           | PASS    |
|                                            |            | 3       | 1         |            | 22.42                     | 0.44           | 22.86      | 2.00          | 33.01           | PASS    |
|                                            |            | 3       | 2         |            | 22.45                     | 0.44           | 22.89      | 2.00          | 33.01           | PASS    |
|                                            |            | 6       | 0         |            | 21.53                     | 0.44           | 21.97      | 2.00          | 33.01           | PASS    |
|                                            | Middle     | 1       | 0         | QPSK       | 23.54                     | 0.44           | 23.98      | 2.00          | 33.01           | PASS    |
|                                            |            | 1       | 2         |            | 23.59                     | 0.44           | 24.03      | 2.00          | 33.01           | PASS    |
|                                            |            | 1       | 5         |            | 23.53                     | 0.44           | 23.97      | 2.00          | 33.01           | PASS    |
|                                            |            | 3       | 0         |            | 23.55                     | 0.44           | 23.99      | 2.00          | 33.01           | PASS    |
|                                            |            | 3       | 1         |            | 23.60                     | 0.44           | 24.04      | 2.00          | 33.01           | PASS    |
|                                            |            | 3       | 2         |            | 23.58                     | 0.44           | 24.02      | 2.00          | 33.01           | PASS    |
|                                            |            | 6       | 0         |            | 22.59                     | 0.44           | 23.03      | 2.00          | 33.01           | PASS    |
|                                            |            | 1       | 0         | 16QAM      | 22.63                     | 0.44           | 23.07      | 2.00          | 33.01           | PASS    |
|                                            |            | 1       | 2         |            | 22.52                     | 0.44           | 22.96      | 2.00          | 33.01           | PASS    |
|                                            |            | 1       | 5         |            | 22.70                     | 0.44           | 23.14      | 2.00          | 33.01           | PASS    |
|                                            |            | 3       | 0         |            | 22.70                     | 0.44           | 23.14      | 2.00          | 33.01           | PASS    |
|                                            |            | 3       | 1         |            | 22.73                     | 0.44           | 23.17      | 2.00          | 33.01           | PASS    |
|                                            |            | 3       | 2         |            | 22.75                     | 0.44           | 23.19      | 2.00          | 33.01           | PASS    |
|                                            |            | 6       | 0         |            | 21.72                     | 0.44           | 22.16      | 2.00          | 33.01           | PASS    |
|                                            | Highest    | 1       | 0         | QPSK       | 23.94                     | 0.44           | 24.38      | 2.00          | 33.01           | PASS    |
|                                            |            | 1       | 2         |            | 23.91                     | 0.44           | 24.35      | 2.00          | 33.01           | PASS    |
|                                            |            | 1       | 5         |            | 23.93                     | 0.44           | 24.37      | 2.00          | 33.01           | PASS    |
|                                            |            | 3       | 0         |            | 23.60                     | 0.44           | 24.04      | 2.00          | 33.01           | PASS    |
|                                            |            | 3       | 1         |            | 23.68                     | 0.44           | 24.12      | 2.00          | 33.01           | PASS    |
|                                            |            | 3       | 2         |            | 23.68                     | 0.44           | 24.12      | 2.00          | 33.01           | PASS    |
|                                            |            | 6       | 0         |            | 22.64                     | 0.44           | 23.08      | 2.00          | 33.01           | PASS    |
|                                            |            | 1       | 0         | 16QAM      | 22.96                     | 0.44           | 23.40      | 2.00          | 33.01           | PASS    |
|                                            |            | 1       | 2         |            | 23.02                     | 0.44           | 23.46      | 2.00          | 33.01           | PASS    |
|                                            |            | 1       | 5         |            | 23.02                     | 0.44           | 23.46      | 2.00          | 33.01           | PASS    |
|                                            |            | 3       | 0         |            | 22.88                     | 0.44           | 23.32      | 2.00          | 33.01           | PASS    |
|                                            |            | 3       | 1         |            | 22.85                     | 0.44           | 23.29      | 2.00          | 33.01           | PASS    |
|                                            |            | 3       | 2         |            | 22.89                     | 0.44           | 23.33      | 2.00          | 33.01           | PASS    |
|                                            |            | 6       | 0         |            | 21.81                     | 0.44           | 22.25      | 2.00          | 33.01           | PASS    |



| Radiated Power (EIRP) for LTE Band 2 /3M |            |         |           |            |                           |                |            |               |                 |         |
|------------------------------------------|------------|---------|-----------|------------|---------------------------|----------------|------------|---------------|-----------------|---------|
| BW (MHz)                                 | UL Channel | RB Size | RB offset | Modulation | Conduction AVG Power(dBm) | Ant Gain (dBi) | EIRP (dBm) | EIRP Limit(W) | EIRP Limit(dBm) | Verdict |
| 3                                        | Lowest     | 1       | 0         | QPSK       | 23.65                     | 0.44           | 24.09      | 2.00          | 33.01           | PASS    |
|                                          |            | 1       | 7         |            | 23.63                     | 0.44           | 24.07      | 2.00          | 33.01           | PASS    |
|                                          |            | 1       | 14        |            | 23.68                     | 0.44           | 24.12      | 2.00          | 33.01           | PASS    |
|                                          |            | 8       | 0         |            | 22.35                     | 0.44           | 22.79      | 2.00          | 33.01           | PASS    |
|                                          |            | 8       | 4         |            | 22.46                     | 0.44           | 22.90      | 2.00          | 33.01           | PASS    |
|                                          |            | 8       | 7         |            | 22.39                     | 0.44           | 22.83      | 2.00          | 33.01           | PASS    |
|                                          |            | 15      | 0         |            | 22.45                     | 0.44           | 22.89      | 2.00          | 33.01           | PASS    |
|                                          |            | 1       | 0         | 16QAM      | 22.21                     | 0.44           | 22.65      | 2.00          | 33.01           | PASS    |
|                                          |            | 1       | 7         |            | 22.19                     | 0.44           | 22.63      | 2.00          | 33.01           | PASS    |
|                                          |            | 1       | 14        |            | 22.27                     | 0.44           | 22.71      | 2.00          | 33.01           | PASS    |
|                                          |            | 8       | 0         |            | 21.46                     | 0.44           | 21.90      | 2.00          | 33.01           | PASS    |
|                                          |            | 8       | 4         |            | 21.45                     | 0.44           | 21.89      | 2.00          | 33.01           | PASS    |
|                                          |            | 8       | 7         |            | 21.42                     | 0.44           | 21.86      | 2.00          | 33.01           | PASS    |
|                                          |            | 15      | 0         |            | 21.53                     | 0.44           | 21.97      | 2.00          | 33.01           | PASS    |
|                                          | Middle     | 1       | 0         | QPSK       | 23.53                     | 0.44           | 23.97      | 2.00          | 33.01           | PASS    |
|                                          |            | 1       | 7         |            | 23.54                     | 0.44           | 23.98      | 2.00          | 33.01           | PASS    |
|                                          |            | 1       | 14        |            | 23.54                     | 0.44           | 23.98      | 2.00          | 33.01           | PASS    |
|                                          |            | 8       | 0         |            | 22.64                     | 0.44           | 23.08      | 2.00          | 33.01           | PASS    |
|                                          |            | 8       | 4         |            | 22.64                     | 0.44           | 23.08      | 2.00          | 33.01           | PASS    |
|                                          |            | 8       | 7         |            | 22.58                     | 0.44           | 23.02      | 2.00          | 33.01           | PASS    |
|                                          |            | 15      | 0         |            | 22.55                     | 0.44           | 22.99      | 2.00          | 33.01           | PASS    |
|                                          |            | 1       | 0         | 16QAM      | 22.66                     | 0.44           | 23.10      | 2.00          | 33.01           | PASS    |
|                                          |            | 1       | 7         |            | 22.67                     | 0.44           | 23.11      | 2.00          | 33.01           | PASS    |
|                                          |            | 1       | 14        |            | 22.67                     | 0.44           | 23.11      | 2.00          | 33.01           | PASS    |
|                                          |            | 8       | 0         |            | 21.56                     | 0.44           | 22.00      | 2.00          | 33.01           | PASS    |
|                                          |            | 8       | 4         |            | 21.57                     | 0.44           | 22.01      | 2.00          | 33.01           | PASS    |
|                                          |            | 8       | 7         |            | 21.60                     | 0.44           | 22.04      | 2.00          | 33.01           | PASS    |
|                                          |            | 15      | 0         |            | 21.59                     | 0.44           | 22.03      | 2.00          | 33.01           | PASS    |
|                                          | Highest    | 1       | 0         | QPSK       | 23.97                     | 0.44           | 24.41      | 2.00          | 33.01           | PASS    |
|                                          |            | 1       | 7         |            | 23.97                     | 0.44           | 24.41      | 2.00          | 33.01           | PASS    |
|                                          |            | 1       | 14        |            | 23.95                     | 0.44           | 24.39      | 2.00          | 33.01           | PASS    |
|                                          |            | 8       | 0         |            | 22.66                     | 0.44           | 23.10      | 2.00          | 33.01           | PASS    |
|                                          |            | 8       | 4         |            | 22.69                     | 0.44           | 23.13      | 2.00          | 33.01           | PASS    |
|                                          |            | 8       | 7         |            | 22.63                     | 0.44           | 23.07      | 2.00          | 33.01           | PASS    |
|                                          |            | 15      | 0         |            | 22.70                     | 0.44           | 23.14      | 2.00          | 33.01           | PASS    |
|                                          |            | 1       | 0         | 16QAM      | 23.03                     | 0.44           | 23.47      | 2.00          | 33.01           | PASS    |
|                                          |            | 1       | 7         |            | 23.07                     | 0.44           | 23.51      | 2.00          | 33.01           | PASS    |
|                                          |            | 1       | 14        |            | 22.99                     | 0.44           | 23.43      | 2.00          | 33.01           | PASS    |
|                                          |            | 8       | 0         |            | 21.76                     | 0.44           | 22.20      | 2.00          | 33.01           | PASS    |
|                                          |            | 8       | 4         |            | 21.75                     | 0.44           | 22.19      | 2.00          | 33.01           | PASS    |
|                                          |            | 8       | 7         |            | 21.76                     | 0.44           | 22.20      | 2.00          | 33.01           | PASS    |
|                                          |            | 15      | 0         |            | 21.75                     | 0.44           | 22.19      | 2.00          | 33.01           | PASS    |



| Radiated Power (EIRP) for LTE Band 2 /5M |            |         |           |            |                           |                |            |               |                 |         |
|------------------------------------------|------------|---------|-----------|------------|---------------------------|----------------|------------|---------------|-----------------|---------|
| BW (MHz)                                 | UL Channel | RB Size | RB offset | Modulation | Conduction AVG Power(dBm) | Ant Gain (dBi) | EIRP (dBm) | EIRP Limit(W) | EIRP Limit(dBm) | Verdict |
| 5                                        | Lowest     | 1       | 0         | QPSK       | 23.24                     | 0.44           | 23.68      | 2.00          | 33.01           | PASS    |
|                                          |            | 1       | 12        |            | 23.27                     | 0.44           | 23.71      | 2.00          | 33.01           | PASS    |
|                                          |            | 1       | 24        |            | 23.26                     | 0.44           | 23.70      | 2.00          | 33.01           | PASS    |
|                                          |            | 12      | 0         |            | 22.40                     | 0.44           | 22.84      | 2.00          | 33.01           | PASS    |
|                                          |            | 12      | 6         |            | 22.32                     | 0.44           | 22.76      | 2.00          | 33.01           | PASS    |
|                                          |            | 12      | 11        |            | 22.42                     | 0.44           | 22.86      | 2.00          | 33.01           | PASS    |
|                                          |            | 25      | 0         |            | 22.36                     | 0.44           | 22.80      | 2.00          | 33.01           | PASS    |
|                                          |            | 1       | 0         | 16QAM      | 21.97                     | 0.44           | 22.41      | 2.00          | 33.01           | PASS    |
|                                          |            | 1       | 12        |            | 21.92                     | 0.44           | 22.36      | 2.00          | 33.01           | PASS    |
|                                          |            | 1       | 24        |            | 21.97                     | 0.44           | 22.41      | 2.00          | 33.01           | PASS    |
|                                          |            | 12      | 0         |            | 21.50                     | 0.44           | 21.94      | 2.00          | 33.01           | PASS    |
|                                          |            | 12      | 6         |            | 21.49                     | 0.44           | 21.93      | 2.00          | 33.01           | PASS    |
|                                          |            | 12      | 11        |            | 21.50                     | 0.44           | 21.94      | 2.00          | 33.01           | PASS    |
|                                          |            | 25      | 0         |            | 21.34                     | 0.44           | 21.78      | 2.00          | 33.01           | PASS    |
|                                          | Middle     | 1       | 0         | QPSK       | 23.50                     | 0.44           | 23.94      | 2.00          | 33.01           | PASS    |
|                                          |            | 1       | 12        |            | 23.46                     | 0.44           | 23.90      | 2.00          | 33.01           | PASS    |
|                                          |            | 1       | 24        |            | 23.42                     | 0.44           | 23.86      | 2.00          | 33.01           | PASS    |
|                                          |            | 12      | 0         |            | 22.47                     | 0.44           | 22.91      | 2.00          | 33.01           | PASS    |
|                                          |            | 12      | 6         |            | 22.59                     | 0.44           | 23.03      | 2.00          | 33.01           | PASS    |
|                                          |            | 12      | 11        |            | 22.61                     | 0.44           | 23.05      | 2.00          | 33.01           | PASS    |
|                                          |            | 25      | 0         |            | 22.60                     | 0.44           | 23.04      | 2.00          | 33.01           | PASS    |
|                                          |            | 1       | 0         | 16QAM      | 22.49                     | 0.44           | 22.93      | 2.00          | 33.01           | PASS    |
|                                          |            | 1       | 12        |            | 22.49                     | 0.44           | 22.93      | 2.00          | 33.01           | PASS    |
|                                          |            | 1       | 24        |            | 22.58                     | 0.44           | 23.02      | 2.00          | 33.01           | PASS    |
|                                          |            | 12      | 0         |            | 21.60                     | 0.44           | 22.04      | 2.00          | 33.01           | PASS    |
|                                          |            | 12      | 6         |            | 21.58                     | 0.44           | 22.02      | 2.00          | 33.01           | PASS    |
|                                          |            | 12      | 11        |            | 21.60                     | 0.44           | 22.04      | 2.00          | 33.01           | PASS    |
|                                          |            | 25      | 0         |            | 21.75                     | 0.44           | 22.19      | 2.00          | 33.01           | PASS    |
|                                          | Highest    | 1       | 0         | QPSK       | 23.74                     | 0.44           | 24.18      | 2.00          | 33.01           | PASS    |
|                                          |            | 1       | 12        |            | 23.79                     | 0.44           | 24.23      | 2.00          | 33.01           | PASS    |
|                                          |            | 1       | 24        |            | 23.79                     | 0.44           | 24.23      | 2.00          | 33.01           | PASS    |
|                                          |            | 12      | 0         |            | 22.58                     | 0.44           | 23.02      | 2.00          | 33.01           | PASS    |
|                                          |            | 12      | 6         |            | 22.61                     | 0.44           | 23.05      | 2.00          | 33.01           | PASS    |
|                                          |            | 12      | 11        |            | 22.75                     | 0.44           | 23.19      | 2.00          | 33.01           | PASS    |
|                                          |            | 25      | 0         |            | 22.64                     | 0.44           | 23.08      | 2.00          | 33.01           | PASS    |
|                                          |            | 1       | 0         | 16QAM      | 22.79                     | 0.44           | 23.23      | 2.00          | 33.01           | PASS    |
|                                          |            | 1       | 12        |            | 22.87                     | 0.44           | 23.31      | 2.00          | 33.01           | PASS    |
|                                          |            | 1       | 24        |            | 22.87                     | 0.44           | 23.31      | 2.00          | 33.01           | PASS    |
|                                          |            | 12      | 0         |            | 21.78                     | 0.44           | 22.22      | 2.00          | 33.01           | PASS    |
|                                          |            | 12      | 6         |            | 21.85                     | 0.44           | 22.29      | 2.00          | 33.01           | PASS    |
|                                          |            | 12      | 11        |            | 21.75                     | 0.44           | 22.19      | 2.00          | 33.01           | PASS    |
|                                          |            | 25      | 0         |            | 21.72                     | 0.44           | 22.16      | 2.00          | 33.01           | PASS    |



| Radiated Power (EIRP) for LTE Band 2 /10M |            |         |           |            |                           |                |            |               |                 |         |
|-------------------------------------------|------------|---------|-----------|------------|---------------------------|----------------|------------|---------------|-----------------|---------|
| BW (MHz)                                  | UL Channel | RB Size | RB offset | Modulation | Conduction AVG Power(dBm) | Ant Gain (dBi) | EIRP (dBm) | EIRP Limit(W) | EIRP Limit(dBm) | Verdict |
| 10                                        | Lowest     | 1       | 0         | QPSK       | 23.47                     | 0.44           | 23.91      | 2.00          | 33.01           | PASS    |
|                                           |            | 1       | 24        |            | 23.5                      | 0.44           | 23.94      | 2.00          | 33.01           | PASS    |
|                                           |            | 1       | 49        |            | 23.49                     | 0.44           | 23.93      | 2.00          | 33.01           | PASS    |
|                                           |            | 25      | 0         |            | 22.39                     | 0.44           | 22.83      | 2.00          | 33.01           | PASS    |
|                                           |            | 25      | 12        |            | 22.33                     | 0.44           | 22.77      | 2.00          | 33.01           | PASS    |
|                                           |            | 25      | 24        |            | 22.39                     | 0.44           | 22.83      | 2.00          | 33.01           | PASS    |
|                                           |            | 50      | 0         |            | 22.3                      | 0.44           | 22.74      | 2.00          | 33.01           | PASS    |
|                                           | Middle     | 1       | 0         | QPSK       | 23.82                     | 0.44           | 24.26      | 2.00          | 33.01           | PASS    |
|                                           |            | 1       | 24        |            | 23.89                     | 0.44           | 24.33      | 2.00          | 33.01           | PASS    |
|                                           |            | 1       | 49        |            | 23.87                     | 0.44           | 24.31      | 2.00          | 33.01           | PASS    |
|                                           |            | 25      | 0         |            | 22.51                     | 0.44           | 22.95      | 2.00          | 33.01           | PASS    |
|                                           |            | 25      | 12        |            | 22.63                     | 0.44           | 23.07      | 2.00          | 33.01           | PASS    |
|                                           |            | 25      | 24        |            | 22.66                     | 0.44           | 23.10      | 2.00          | 33.01           | PASS    |
|                                           |            | 50      | 0         |            | 22.55                     | 0.44           | 22.99      | 2.00          | 33.01           | PASS    |
|                                           | Highest    | 1       | 0         | QPSK       | 23.47                     | 0.44           | 23.91      | 2.00          | 33.01           | PASS    |
|                                           |            | 1       | 24        |            | 23.61                     | 0.44           | 24.05      | 2.00          | 33.01           | PASS    |
|                                           |            | 1       | 49        |            | 23.69                     | 0.44           | 24.13      | 2.00          | 33.01           | PASS    |
|                                           |            | 25      | 0         |            | 22.58                     | 0.44           | 23.02      | 2.00          | 33.01           | PASS    |
|                                           |            | 25      | 12        |            | 22.65                     | 0.44           | 23.09      | 2.00          | 33.01           | PASS    |
|                                           |            | 25      | 24        |            | 22.77                     | 0.44           | 23.21      | 2.00          | 33.01           | PASS    |
|                                           |            | 50      | 0         |            | 22.66                     | 0.44           | 23.10      | 2.00          | 33.01           | PASS    |



| Radiated Power (EIRP) for LTE Band 2 /15M |            |         |           |            |                           |                |            |               |                 |         |
|-------------------------------------------|------------|---------|-----------|------------|---------------------------|----------------|------------|---------------|-----------------|---------|
| BW (MHz)                                  | UL Channel | RB Size | RB offset | Modulation | Conduction AVG Power(dBm) | Ant Gain (dBi) | EIRP (dBm) | EIRP Limit(W) | EIRP Limit(dBm) | Verdict |
| 15                                        | Lowest     | 1       | 0         | QPSK       | 23.41                     | 0.44           | 23.85      | 2.00          | 33.01           | PASS    |
|                                           |            | 1       | 37        |            | 23.43                     | 0.44           | 23.87      | 2.00          | 33.01           | PASS    |
|                                           |            | 1       | 74        |            | 23.45                     | 0.44           | 23.89      | 2.00          | 33.01           | PASS    |
|                                           |            | 36      | 0         |            | 22.31                     | 0.44           | 22.75      | 2.00          | 33.01           | PASS    |
|                                           |            | 36      | 18        |            | 22.33                     | 0.44           | 22.77      | 2.00          | 33.01           | PASS    |
|                                           |            | 36      | 39        |            | 22.32                     | 0.44           | 22.76      | 2.00          | 33.01           | PASS    |
|                                           |            | 75      | 0         |            | 22.44                     | 0.44           | 22.88      | 2.00          | 33.01           | PASS    |
|                                           | Middle     | 1       | 0         | QPSK       | 23.6                      | 0.44           | 24.04      | 2.00          | 33.01           | PASS    |
|                                           |            | 1       | 37        |            | 23.72                     | 0.44           | 24.16      | 2.00          | 33.01           | PASS    |
|                                           |            | 1       | 74        |            | 23.66                     | 0.44           | 24.10      | 2.00          | 33.01           | PASS    |
|                                           |            | 36      | 0         |            | 22.59                     | 0.44           | 23.03      | 2.00          | 33.01           | PASS    |
|                                           |            | 36      | 18        |            | 22.64                     | 0.44           | 23.08      | 2.00          | 33.01           | PASS    |
|                                           |            | 36      | 39        |            | 22.54                     | 0.44           | 22.98      | 2.00          | 33.01           | PASS    |
|                                           |            | 75      | 0         |            | 22.58                     | 0.44           | 23.02      | 2.00          | 33.01           | PASS    |
|                                           | Highest    | 1       | 0         | QPSK       | 23.53                     | 0.44           | 23.97      | 2.00          | 33.01           | PASS    |
|                                           |            | 1       | 37        |            | 23.57                     | 0.44           | 24.01      | 2.00          | 33.01           | PASS    |
|                                           |            | 1       | 74        |            | 23.69                     | 0.44           | 24.13      | 2.00          | 33.01           | PASS    |
|                                           |            | 36      | 0         |            | 22.56                     | 0.44           | 23.00      | 2.00          | 33.01           | PASS    |
|                                           |            | 36      | 18        |            | 22.63                     | 0.44           | 23.07      | 2.00          | 33.01           | PASS    |
|                                           |            | 36      | 39        |            | 22.64                     | 0.44           | 23.08      | 2.00          | 33.01           | PASS    |
|                                           |            | 75      | 0         |            | 22.68                     | 0.44           | 23.12      | 2.00          | 33.01           | PASS    |



| Radiated Power (EIRP) for LTE Band 2 /20M |            |         |           |            |                           |                |            |               |                 |         |
|-------------------------------------------|------------|---------|-----------|------------|---------------------------|----------------|------------|---------------|-----------------|---------|
| BW (MHz)                                  | UL Channel | RB Size | RB offset | Modulation | Conduction AVG Power(dBm) | Ant Gain (dBi) | EIRP (dBm) | EIRP Limit(W) | EIRP Limit(dBm) | Verdict |
| 20                                        | Lowest     | 1       | 0         | QPSK       | 23.56                     | 0.44           | 24.00      | 2.00          | 33.01           | PASS    |
|                                           |            | 1       | 49        |            | 23.62                     | 0.44           | 24.06      | 2.00          | 33.01           | PASS    |
|                                           |            | 1       | 99        |            | 23.69                     | 0.44           | 24.13      | 2.00          | 33.01           | PASS    |
|                                           |            | 50      | 0         |            | 22.37                     | 0.44           | 22.81      | 2.00          | 33.01           | PASS    |
|                                           |            | 50      | 24        |            | 22.38                     | 0.44           | 22.82      | 2.00          | 33.01           | PASS    |
|                                           |            | 50      | 49        |            | 22.37                     | 0.44           | 22.81      | 2.00          | 33.01           | PASS    |
|                                           |            | 100     | 0         |            | 22.35                     | 0.44           | 22.79      | 2.00          | 33.01           | PASS    |
|                                           | Middle     | 1       | 0         | QPSK       | 23.63                     | 0.44           | 24.07      | 2.00          | 33.01           | PASS    |
|                                           |            | 1       | 49        |            | 23.66                     | 0.44           | 24.10      | 2.00          | 33.01           | PASS    |
|                                           |            | 1       | 99        |            | 23.67                     | 0.44           | 24.11      | 2.00          | 33.01           | PASS    |
|                                           |            | 50      | 0         |            | 22.47                     | 0.44           | 22.91      | 2.00          | 33.01           | PASS    |
|                                           |            | 50      | 24        |            | 22.63                     | 0.44           | 23.07      | 2.00          | 33.01           | PASS    |
|                                           |            | 50      | 49        |            | 22.57                     | 0.44           | 23.01      | 2.00          | 33.01           | PASS    |
|                                           |            | 100     | 0         |            | 22.53                     | 0.44           | 22.97      | 2.00          | 33.01           | PASS    |
|                                           | Highest    | 1       | 0         | QPSK       | 23.74                     | 0.44           | 24.18      | 2.00          | 33.01           | PASS    |
|                                           |            | 1       | 49        |            | 23.81                     | 0.44           | 24.25      | 2.00          | 33.01           | PASS    |
|                                           |            | 1       | 99        |            | 23.98                     | 0.44           | 24.42      | 2.00          | 33.01           | PASS    |
|                                           |            | 50      | 0         |            | 22.62                     | 0.44           | 23.06      | 2.00          | 33.01           | PASS    |
|                                           |            | 50      | 24        |            | 22.65                     | 0.44           | 23.09      | 2.00          | 33.01           | PASS    |
|                                           |            | 50      | 49        |            | 22.58                     | 0.44           | 23.02      | 2.00          | 33.01           | PASS    |
|                                           |            | 100     | 0         |            | 22.63                     | 0.44           | 23.07      | 2.00          | 33.01           | PASS    |



| Radiated Power (EIRP) for LTE Band 4 /1.4M |            |         |           |            |                           |                |            |               |                 |         |
|--------------------------------------------|------------|---------|-----------|------------|---------------------------|----------------|------------|---------------|-----------------|---------|
| BW (MHz)                                   | UL Channel | RB Size | RB offset | Modulation | Conduction AVG Power(dBm) | Ant Gain (dBi) | EIRP (dBm) | EIRP Limit(W) | EIRP Limit(dBm) | Verdict |
| 1.4                                        | Lowest     | 1       | 0         | QPSK       | 23.28                     | 0.32           | 23.60      | 1.00          | 30.00           | PASS    |
|                                            |            | 1       | 2         |            | 23.24                     | 0.32           | 23.56      | 1.00          | 30.00           | PASS    |
|                                            |            | 1       | 5         |            | 23.38                     | 0.32           | 23.70      | 1.00          | 30.00           | PASS    |
|                                            |            | 3       | 0         |            | 23.01                     | 0.32           | 23.33      | 1.00          | 30.00           | PASS    |
|                                            |            | 3       | 1         |            | 23.06                     | 0.32           | 23.38      | 1.00          | 30.00           | PASS    |
|                                            |            | 3       | 2         |            | 23.05                     | 0.32           | 23.37      | 1.00          | 30.00           | PASS    |
|                                            |            | 6       | 0         |            | 22.12                     | 0.32           | 22.44      | 1.00          | 30.00           | PASS    |
|                                            |            | 1       | 0         | 16QAM      | 22.53                     | 0.32           | 22.85      | 1.00          | 30.00           | PASS    |
|                                            |            | 1       | 2         |            | 22.54                     | 0.32           | 22.86      | 1.00          | 30.00           | PASS    |
|                                            |            | 1       | 5         |            | 22.51                     | 0.32           | 22.83      | 1.00          | 30.00           | PASS    |
|                                            |            | 3       | 0         |            | 22.28                     | 0.32           | 22.60      | 1.00          | 30.00           | PASS    |
|                                            |            | 3       | 1         |            | 22.24                     | 0.32           | 22.56      | 1.00          | 30.00           | PASS    |
|                                            |            | 3       | 2         |            | 22.26                     | 0.32           | 22.58      | 1.00          | 30.00           | PASS    |
|                                            |            | 6       | 0         |            | 21.21                     | 0.32           | 21.53      | 1.00          | 30.00           | PASS    |
|                                            | Middle     | 1       | 0         | QPSK       | 23.59                     | 0.32           | 23.91      | 1.00          | 30.00           | PASS    |
|                                            |            | 1       | 2         |            | 23.67                     | 0.32           | 23.99      | 1.00          | 30.00           | PASS    |
|                                            |            | 1       | 5         |            | 23.52                     | 0.32           | 23.84      | 1.00          | 30.00           | PASS    |
|                                            |            | 3       | 0         |            | 23.15                     | 0.32           | 23.47      | 1.00          | 30.00           | PASS    |
|                                            |            | 3       | 1         |            | 23.18                     | 0.32           | 23.50      | 1.00          | 30.00           | PASS    |
|                                            |            | 3       | 2         |            | 23.09                     | 0.32           | 23.41      | 1.00          | 30.00           | PASS    |
|                                            |            | 6       | 0         |            | 22.16                     | 0.32           | 22.48      | 1.00          | 30.00           | PASS    |
|                                            |            | 1       | 0         | 16QAM      | 23.11                     | 0.32           | 23.43      | 1.00          | 30.00           | PASS    |
|                                            |            | 1       | 2         |            | 23.02                     | 0.32           | 23.34      | 1.00          | 30.00           | PASS    |
|                                            |            | 1       | 5         |            | 23.06                     | 0.32           | 23.38      | 1.00          | 30.00           | PASS    |
|                                            |            | 3       | 0         |            | 22.19                     | 0.32           | 22.51      | 1.00          | 30.00           | PASS    |
|                                            |            | 3       | 1         |            | 22.23                     | 0.32           | 22.55      | 1.00          | 30.00           | PASS    |
|                                            |            | 3       | 2         |            | 22.27                     | 0.32           | 22.59      | 1.00          | 30.00           | PASS    |
|                                            |            | 6       | 0         |            | 21.36                     | 0.32           | 21.68      | 1.00          | 30.00           | PASS    |
|                                            | Highest    | 1       | 0         | QPSK       | 23.07                     | 0.32           | 23.39      | 1.00          | 30.00           | PASS    |
|                                            |            | 1       | 2         |            | 23.08                     | 0.32           | 23.40      | 1.00          | 30.00           | PASS    |
|                                            |            | 1       | 5         |            | 23.05                     | 0.32           | 23.37      | 1.00          | 30.00           | PASS    |
|                                            |            | 3       | 0         |            | 23.11                     | 0.32           | 23.43      | 1.00          | 30.00           | PASS    |
|                                            |            | 3       | 1         |            | 23.16                     | 0.32           | 23.48      | 1.00          | 30.00           | PASS    |
|                                            |            | 3       | 2         |            | 23.14                     | 0.32           | 23.46      | 1.00          | 30.00           | PASS    |
|                                            |            | 6       | 0         |            | 22.21                     | 0.32           | 22.53      | 1.00          | 30.00           | PASS    |
|                                            |            | 1       | 0         | 16QAM      | 22.65                     | 0.32           | 22.97      | 1.00          | 30.00           | PASS    |
|                                            |            | 1       | 2         |            | 22.59                     | 0.32           | 22.91      | 1.00          | 30.00           | PASS    |
|                                            |            | 1       | 5         |            | 22.66                     | 0.32           | 22.98      | 1.00          | 30.00           | PASS    |
|                                            |            | 3       | 0         |            | 22.46                     | 0.32           | 22.78      | 1.00          | 30.00           | PASS    |
|                                            |            | 3       | 1         |            | 22.47                     | 0.32           | 22.79      | 1.00          | 30.00           | PASS    |
|                                            |            | 3       | 2         |            | 22.47                     | 0.32           | 22.79      | 1.00          | 30.00           | PASS    |
|                                            |            | 6       | 0         |            | 21.26                     | 0.32           | 21.58      | 1.00          | 30.00           | PASS    |



| Radiated Power (EIRP) for LTE Band 4 /3M |            |         |           |            |                           |                |            |               |                 |         |
|------------------------------------------|------------|---------|-----------|------------|---------------------------|----------------|------------|---------------|-----------------|---------|
| BW (MHz)                                 | UL Channel | RB Size | RB offset | Modulation | Conduction AVG Power(dBm) | Ant Gain (dBi) | EIRP (dBm) | EIRP Limit(W) | EIRP Limit(dBm) | Verdict |
| 3                                        | Lowest     | 1       | 0         | QPSK       | 23.26                     | 0.32           | 23.58      | 1.00          | 30.00           | PASS    |
|                                          |            | 1       | 7         |            | 23.27                     | 0.32           | 23.59      | 1.00          | 30.00           | PASS    |
|                                          |            | 1       | 14        |            | 23.32                     | 0.32           | 23.64      | 1.00          | 30.00           | PASS    |
|                                          |            | 8       | 0         |            | 22.03                     | 0.32           | 22.35      | 1.00          | 30.00           | PASS    |
|                                          |            | 8       | 4         |            | 22.07                     | 0.32           | 22.39      | 1.00          | 30.00           | PASS    |
|                                          |            | 8       | 7         |            | 22.05                     | 0.32           | 22.37      | 1.00          | 30.00           | PASS    |
|                                          |            | 15      | 0         |            | 22.06                     | 0.32           | 22.38      | 1.00          | 30.00           | PASS    |
|                                          |            | 1       | 0         | 16QAM      | 21.85                     | 0.32           | 22.17      | 1.00          | 30.00           | PASS    |
|                                          |            | 1       | 7         |            | 21.93                     | 0.32           | 22.25      | 1.00          | 30.00           | PASS    |
|                                          |            | 1       | 14        |            | 21.97                     | 0.32           | 22.29      | 1.00          | 30.00           | PASS    |
|                                          |            | 8       | 0         |            | 21.10                     | 0.32           | 21.42      | 1.00          | 30.00           | PASS    |
|                                          |            | 8       | 4         |            | 21.08                     | 0.32           | 21.40      | 1.00          | 30.00           | PASS    |
|                                          |            | 8       | 7         |            | 21.12                     | 0.32           | 21.44      | 1.00          | 30.00           | PASS    |
|                                          |            | 15      | 0         |            | 21.27                     | 0.32           | 21.59      | 1.00          | 30.00           | PASS    |
|                                          | Middle     | 1       | 0         | QPSK       | 23.16                     | 0.32           | 23.48      | 1.00          | 30.00           | PASS    |
|                                          |            | 1       | 7         |            | 23.12                     | 0.32           | 23.44      | 1.00          | 30.00           | PASS    |
|                                          |            | 1       | 14        |            | 23.17                     | 0.32           | 23.49      | 1.00          | 30.00           | PASS    |
|                                          |            | 8       | 0         |            | 22.22                     | 0.32           | 22.54      | 1.00          | 30.00           | PASS    |
|                                          |            | 8       | 4         |            | 22.26                     | 0.32           | 22.58      | 1.00          | 30.00           | PASS    |
|                                          |            | 8       | 7         |            | 22.24                     | 0.32           | 22.56      | 1.00          | 30.00           | PASS    |
|                                          |            | 15      | 0         |            | 22.27                     | 0.32           | 22.59      | 1.00          | 30.00           | PASS    |
|                                          |            | 1       | 0         | 16QAM      | 23.05                     | 0.32           | 23.37      | 1.00          | 30.00           | PASS    |
|                                          |            | 1       | 7         |            | 23.10                     | 0.32           | 23.42      | 1.00          | 30.00           | PASS    |
|                                          |            | 1       | 14        |            | 23.10                     | 0.32           | 23.42      | 1.00          | 30.00           | PASS    |
|                                          |            | 8       | 0         |            | 21.31                     | 0.32           | 21.63      | 1.00          | 30.00           | PASS    |
|                                          |            | 8       | 4         |            | 21.31                     | 0.32           | 21.63      | 1.00          | 30.00           | PASS    |
|                                          |            | 8       | 7         |            | 21.33                     | 0.32           | 21.65      | 1.00          | 30.00           | PASS    |
|                                          |            | 15      | 0         |            | 21.33                     | 0.32           | 21.65      | 1.00          | 30.00           | PASS    |
|                                          | Highest    | 1       | 0         | QPSK       | 23.20                     | 0.32           | 23.52      | 1.00          | 30.00           | PASS    |
|                                          |            | 1       | 7         |            | 23.19                     | 0.32           | 23.51      | 1.00          | 30.00           | PASS    |
|                                          |            | 1       | 14        |            | 23.21                     | 0.32           | 23.53      | 1.00          | 30.00           | PASS    |
|                                          |            | 8       | 0         |            | 22.17                     | 0.32           | 22.49      | 1.00          | 30.00           | PASS    |
|                                          |            | 8       | 4         |            | 22.25                     | 0.32           | 22.57      | 1.00          | 30.00           | PASS    |
|                                          |            | 8       | 7         |            | 22.28                     | 0.32           | 22.60      | 1.00          | 30.00           | PASS    |
|                                          |            | 15      | 0         |            | 22.26                     | 0.32           | 22.58      | 1.00          | 30.00           | PASS    |
|                                          |            | 1       | 0         | 16QAM      | 22.53                     | 0.32           | 22.85      | 1.00          | 30.00           | PASS    |
|                                          |            | 1       | 7         |            | 22.50                     | 0.32           | 22.82      | 1.00          | 30.00           | PASS    |
|                                          |            | 1       | 14        |            | 22.59                     | 0.32           | 22.91      | 1.00          | 30.00           | PASS    |
|                                          |            | 8       | 0         |            | 21.36                     | 0.32           | 21.68      | 1.00          | 30.00           | PASS    |
|                                          |            | 8       | 4         |            | 21.34                     | 0.32           | 21.66      | 1.00          | 30.00           | PASS    |
|                                          |            | 8       | 7         |            | 21.36                     | 0.32           | 21.68      | 1.00          | 30.00           | PASS    |
|                                          |            | 15      | 0         |            | 21.33                     | 0.32           | 21.65      | 1.00          | 30.00           | PASS    |



| Radiated Power (EIRP) for LTE Band 4 /5M |            |         |           |            |                           |                |            |               |                 |         |
|------------------------------------------|------------|---------|-----------|------------|---------------------------|----------------|------------|---------------|-----------------|---------|
| BW (MHz)                                 | UL Channel | RB Size | RB offset | Modulation | Conduction AVG Power(dBm) | Ant Gain (dBi) | EIRP (dBm) | EIRP Limit(W) | EIRP Limit(dBm) | Verdict |
| 5                                        | Lowest     | 1       | 0         | QPSK       | 22.86                     | 0.32           | 23.18      | 1.00          | 30.00           | PASS    |
|                                          |            | 1       | 12        |            | 22.87                     | 0.32           | 23.19      | 1.00          | 30.00           | PASS    |
|                                          |            | 1       | 24        |            | 23.01                     | 0.32           | 23.33      | 1.00          | 30.00           | PASS    |
|                                          |            | 12      | 0         |            | 22.04                     | 0.32           | 22.36      | 1.00          | 30.00           | PASS    |
|                                          |            | 12      | 6         |            | 22.07                     | 0.32           | 22.39      | 1.00          | 30.00           | PASS    |
|                                          |            | 12      | 11        |            | 22.17                     | 0.32           | 22.49      | 1.00          | 30.00           | PASS    |
|                                          |            | 25      | 0         |            | 22.12                     | 0.32           | 22.44      | 1.00          | 30.00           | PASS    |
|                                          |            | 1       | 0         | 16QAM      | 21.56                     | 0.32           | 21.88      | 1.00          | 30.00           | PASS    |
|                                          |            | 1       | 12        |            | 21.61                     | 0.32           | 21.93      | 1.00          | 30.00           | PASS    |
|                                          |            | 1       | 24        |            | 21.66                     | 0.32           | 21.98      | 1.00          | 30.00           | PASS    |
|                                          |            | 12      | 0         |            | 21.18                     | 0.32           | 21.50      | 1.00          | 30.00           | PASS    |
|                                          |            | 12      | 6         |            | 21.18                     | 0.32           | 21.50      | 1.00          | 30.00           | PASS    |
|                                          |            | 12      | 11        |            | 21.22                     | 0.32           | 21.54      | 1.00          | 30.00           | PASS    |
|                                          |            | 25      | 0         |            | 21.05                     | 0.32           | 21.37      | 1.00          | 30.00           | PASS    |
|                                          | Middle     | 1       | 0         | QPSK       | 22.99                     | 0.32           | 23.31      | 1.00          | 30.00           | PASS    |
|                                          |            | 1       | 12        |            | 23.03                     | 0.32           | 23.35      | 1.00          | 30.00           | PASS    |
|                                          |            | 1       | 24        |            | 23.00                     | 0.32           | 23.32      | 1.00          | 30.00           | PASS    |
|                                          |            | 12      | 0         |            | 22.15                     | 0.32           | 22.47      | 1.00          | 30.00           | PASS    |
|                                          |            | 12      | 6         |            | 22.13                     | 0.32           | 22.45      | 1.00          | 30.00           | PASS    |
|                                          |            | 12      | 11        |            | 22.12                     | 0.32           | 22.44      | 1.00          | 30.00           | PASS    |
|                                          |            | 25      | 0         |            | 22.18                     | 0.32           | 22.50      | 1.00          | 30.00           | PASS    |
|                                          |            | 1       | 0         | 16QAM      | 22.04                     | 0.32           | 22.36      | 1.00          | 30.00           | PASS    |
|                                          |            | 1       | 12        |            | 22.12                     | 0.32           | 22.44      | 1.00          | 30.00           | PASS    |
|                                          |            | 1       | 24        |            | 22.07                     | 0.32           | 22.39      | 1.00          | 30.00           | PASS    |
|                                          |            | 12      | 0         |            | 21.16                     | 0.32           | 21.48      | 1.00          | 30.00           | PASS    |
|                                          |            | 12      | 6         |            | 21.24                     | 0.32           | 21.56      | 1.00          | 30.00           | PASS    |
|                                          |            | 12      | 11        |            | 21.24                     | 0.32           | 21.56      | 1.00          | 30.00           | PASS    |
|                                          |            | 25      | 0         |            | 21.33                     | 0.32           | 21.65      | 1.00          | 30.00           | PASS    |
|                                          | Highest    | 1       | 0         | QPSK       | 23.27                     | 0.32           | 23.59      | 1.00          | 30.00           | PASS    |
|                                          |            | 1       | 12        |            | 23.25                     | 0.32           | 23.57      | 1.00          | 30.00           | PASS    |
|                                          |            | 1       | 24        |            | 23.28                     | 0.32           | 23.60      | 1.00          | 30.00           | PASS    |
|                                          |            | 12      | 0         |            | 22.14                     | 0.32           | 22.46      | 1.00          | 30.00           | PASS    |
|                                          |            | 12      | 6         |            | 22.10                     | 0.32           | 22.42      | 1.00          | 30.00           | PASS    |
|                                          |            | 12      | 11        |            | 22.16                     | 0.32           | 22.48      | 1.00          | 30.00           | PASS    |
|                                          |            | 25      | 0         |            | 22.22                     | 0.32           | 22.54      | 1.00          | 30.00           | PASS    |
|                                          |            | 1       | 0         | 16QAM      | 22.24                     | 0.32           | 22.56      | 1.00          | 30.00           | PASS    |
|                                          |            | 1       | 12        |            | 22.24                     | 0.32           | 22.56      | 1.00          | 30.00           | PASS    |
|                                          |            | 1       | 24        |            | 22.26                     | 0.32           | 22.58      | 1.00          | 30.00           | PASS    |
|                                          |            | 12      | 0         |            | 21.24                     | 0.32           | 21.56      | 1.00          | 30.00           | PASS    |
|                                          |            | 12      | 6         |            | 21.22                     | 0.32           | 21.54      | 1.00          | 30.00           | PASS    |
|                                          |            | 12      | 11        |            | 21.25                     | 0.32           | 21.57      | 1.00          | 30.00           | PASS    |
|                                          |            | 25      | 0         |            | 21.21                     | 0.32           | 21.53      | 1.00          | 30.00           | PASS    |



| Radiated Power (EIRP) for LTE Band 4 /10M |            |         |           |            |                           |                |            |               |                 |         |
|-------------------------------------------|------------|---------|-----------|------------|---------------------------|----------------|------------|---------------|-----------------|---------|
| BW (MHz)                                  | UL Channel | RB Size | RB offset | Modulation | Conduction AVG Power(dBm) | Ant Gain (dBi) | EIRP (dBm) | EIRP Limit(W) | EIRP Limit(dBm) | Verdict |
| 10                                        | Lowest     | 1       | 0         | QPSK       | 23.22                     | 0.32           | 23.54      | 1.00          | 30.00           | PASS    |
|                                           |            | 1       | 24        |            | 23.3                      | 0.32           | 23.62      | 1.00          | 30.00           | PASS    |
|                                           |            | 1       | 49        |            | 23.32                     | 0.32           | 23.64      | 1.00          | 30.00           | PASS    |
|                                           |            | 25      | 0         |            | 22.02                     | 0.32           | 22.34      | 1.00          | 30.00           | PASS    |
|                                           |            | 25      | 12        |            | 22.2                      | 0.32           | 22.52      | 1.00          | 30.00           | PASS    |
|                                           |            | 25      | 24        |            | 22.16                     | 0.32           | 22.48      | 1.00          | 30.00           | PASS    |
|                                           |            | 50      | 0         |            | 22.14                     | 0.32           | 22.46      | 1.00          | 30.00           | PASS    |
|                                           | Middle     | 1       | 0         | QPSK       | 23.52                     | 0.32           | 23.84      | 1.00          | 30.00           | PASS    |
|                                           |            | 1       | 24        |            | 23.49                     | 0.32           | 23.81      | 1.00          | 30.00           | PASS    |
|                                           |            | 1       | 49        |            | 23.48                     | 0.32           | 23.80      | 1.00          | 30.00           | PASS    |
|                                           |            | 25      | 0         |            | 22.23                     | 0.32           | 22.55      | 1.00          | 30.00           | PASS    |
|                                           |            | 25      | 12        |            | 22.24                     | 0.32           | 22.56      | 1.00          | 30.00           | PASS    |
|                                           |            | 25      | 24        |            | 22.15                     | 0.32           | 22.47      | 1.00          | 30.00           | PASS    |
|                                           |            | 50      | 0         |            | 22.13                     | 0.32           | 22.45      | 1.00          | 30.00           | PASS    |
|                                           | Highest    | 1       | 0         | QPSK       | 22.95                     | 0.32           | 23.27      | 1.00          | 30.00           | PASS    |
|                                           |            | 1       | 24        |            | 23.05                     | 0.32           | 23.37      | 1.00          | 30.00           | PASS    |
|                                           |            | 1       | 49        |            | 23.01                     | 0.32           | 23.33      | 1.00          | 30.00           | PASS    |
|                                           |            | 25      | 0         |            | 22.19                     | 0.32           | 22.51      | 1.00          | 30.00           | PASS    |
|                                           |            | 25      | 12        |            | 22.18                     | 0.32           | 22.50      | 1.00          | 30.00           | PASS    |
|                                           |            | 25      | 24        |            | 22.14                     | 0.32           | 22.46      | 1.00          | 30.00           | PASS    |
|                                           |            | 50      | 0         |            | 22.26                     | 0.32           | 22.58      | 1.00          | 30.00           | PASS    |



| Radiated Power (EIRP) for LTE Band 4 /15M |            |         |           |            |                           |                |            |               |                 |         |
|-------------------------------------------|------------|---------|-----------|------------|---------------------------|----------------|------------|---------------|-----------------|---------|
| BW (MHz)                                  | UL Channel | RB Size | RB offset | Modulation | Conduction AVG Power(dBm) | Ant Gain (dBi) | EIRP (dBm) | EIRP Limit(W) | EIRP Limit(dBm) | Verdict |
| 15                                        | Lowest     | 1       | 0         | QPSK       | 23.07                     | 0.32           | 23.39      | 1.00          | 30.00           | PASS    |
|                                           |            | 1       | 37        |            | 23.26                     | 0.32           | 23.58      | 1.00          | 30.00           | PASS    |
|                                           |            | 1       | 74        |            | 23.32                     | 0.32           | 23.64      | 1.00          | 30.00           | PASS    |
|                                           |            | 36      | 0         |            | 22.13                     | 0.32           | 22.45      | 1.00          | 30.00           | PASS    |
|                                           |            | 36      | 18        |            | 22.14                     | 0.32           | 22.46      | 1.00          | 30.00           | PASS    |
|                                           |            | 36      | 39        |            | 22.2                      | 0.32           | 22.52      | 1.00          | 30.00           | PASS    |
|                                           |            | 75      | 0         |            | 22.18                     | 0.32           | 22.50      | 1.00          | 30.00           | PASS    |
|                                           | Middle     | 1       | 0         | QPSK       | 23.48                     | 0.32           | 23.80      | 1.00          | 30.00           | PASS    |
|                                           |            | 1       | 37        |            | 23.47                     | 0.32           | 23.79      | 1.00          | 30.00           | PASS    |
|                                           |            | 1       | 74        |            | 23.45                     | 0.32           | 23.77      | 1.00          | 30.00           | PASS    |
|                                           |            | 36      | 0         |            | 22.16                     | 0.32           | 22.48      | 1.00          | 30.00           | PASS    |
|                                           |            | 36      | 18        |            | 22.25                     | 0.32           | 22.57      | 1.00          | 30.00           | PASS    |
|                                           |            | 36      | 39        |            | 22.08                     | 0.32           | 22.40      | 1.00          | 30.00           | PASS    |
|                                           |            | 75      | 0         |            | 22.21                     | 0.32           | 22.53      | 1.00          | 30.00           | PASS    |
|                                           | Highest    | 1       | 0         | QPSK       | 23                        | 0.32           | 23.32      | 1.00          | 30.00           | PASS    |
|                                           |            | 1       | 37        |            | 22.96                     | 0.32           | 23.28      | 1.00          | 30.00           | PASS    |
|                                           |            | 1       | 74        |            | 22.97                     | 0.32           | 23.29      | 1.00          | 30.00           | PASS    |
|                                           |            | 36      | 0         |            | 22.15                     | 0.32           | 22.47      | 1.00          | 30.00           | PASS    |
|                                           |            | 36      | 18        |            | 22.24                     | 0.32           | 22.56      | 1.00          | 30.00           | PASS    |
|                                           |            | 36      | 39        |            | 22.12                     | 0.32           | 22.44      | 1.00          | 30.00           | PASS    |
|                                           |            | 75      | 0         |            | 22.21                     | 0.32           | 22.53      | 1.00          | 30.00           | PASS    |



| Radiated Power (EIRP) for LTE Band 4 /20M |            |         |           |            |                           |                |            |               |                 |         |
|-------------------------------------------|------------|---------|-----------|------------|---------------------------|----------------|------------|---------------|-----------------|---------|
| BW (MHz)                                  | UL Channel | RB Size | RB offset | Modulation | Conduction AVG Power(dBm) | Ant Gain (dBi) | EIRP (dBm) | EIRP Limit(W) | EIRP Limit(dBm) | Verdict |
| 20                                        | Lowest     | 1       | 0         | QPSK       | 23.19                     | 0.32           | 23.51      | 1.00          | 30.00           | PASS    |
|                                           |            | 1       | 49        |            | 23.4                      | 0.32           | 23.72      | 1.00          | 30.00           | PASS    |
|                                           |            | 1       | 99        |            | 23.34                     | 0.32           | 23.66      | 1.00          | 30.00           | PASS    |
|                                           |            | 50      | 0         |            | 22.23                     | 0.32           | 22.55      | 1.00          | 30.00           | PASS    |
|                                           |            | 50      | 24        |            | 22.21                     | 0.32           | 22.53      | 1.00          | 30.00           | PASS    |
|                                           |            | 50      | 49        |            | 22.21                     | 0.32           | 22.53      | 1.00          | 30.00           | PASS    |
|                                           |            | 100     | 0         |            | 22.27                     | 0.32           | 22.59      | 1.00          | 30.00           | PASS    |
|                                           | Middle     | 1       | 0         | QPSK       | 23.33                     | 0.32           | 23.65      | 1.00          | 30.00           | PASS    |
|                                           |            | 1       | 49        |            | 23.3                      | 0.32           | 23.62      | 1.00          | 30.00           | PASS    |
|                                           |            | 1       | 99        |            | 23.46                     | 0.32           | 23.78      | 1.00          | 30.00           | PASS    |
|                                           |            | 50      | 0         |            | 23.71                     | 0.32           | 24.03      | 1.00          | 30.00           | PASS    |
|                                           |            | 50      | 24        |            | 22.3                      | 0.32           | 22.62      | 1.00          | 30.00           | PASS    |
|                                           |            | 50      | 49        |            | 22.16                     | 0.32           | 22.48      | 1.00          | 30.00           | PASS    |
|                                           |            | 100     | 0         |            | 22.23                     | 0.32           | 22.55      | 1.00          | 30.00           | PASS    |
|                                           | Highest    | 1       | 0         | QPSK       | 23.26                     | 0.32           | 23.58      | 1.00          | 30.00           | PASS    |
|                                           |            | 1       | 49        |            | 23.18                     | 0.32           | 23.50      | 1.00          | 30.00           | PASS    |
|                                           |            | 1       | 99        |            | 23.22                     | 0.32           | 23.54      | 1.00          | 30.00           | PASS    |
|                                           |            | 50      | 0         |            | 22.14                     | 0.32           | 22.46      | 1.00          | 30.00           | PASS    |
|                                           |            | 50      | 24        |            | 22.22                     | 0.32           | 22.54      | 1.00          | 30.00           | PASS    |
|                                           |            | 50      | 49        |            | 22.17                     | 0.32           | 22.49      | 1.00          | 30.00           | PASS    |
|                                           |            | 100     | 0         |            | 22.2                      | 0.32           | 22.52      | 1.00          | 30.00           | PASS    |



| Radiated Power (ERP) for LTE Band 5 /1.4M |            |         |           |            |                           |                |           |              |                |         |
|-------------------------------------------|------------|---------|-----------|------------|---------------------------|----------------|-----------|--------------|----------------|---------|
| BW (MHz)                                  | UL Channel | RB Size | RB offset | Modulation | Conduction AVG Power(dBm) | Ant Gain (dBi) | ERP (dBm) | ERP Limit(W) | ERP Limit(dBm) | Verdict |
| 1.4                                       | Lowest     | 1       | 0         | QPSK       | 23.67                     | -1.13          | 20.39     | 7.00         | 38.45          | PASS    |
|                                           |            | 1       | 2         |            | 23.69                     | -1.13          | 20.41     | 7.00         | 38.45          | PASS    |
|                                           |            | 1       | 5         |            | 23.67                     | -1.13          | 20.39     | 7.00         | 38.45          | PASS    |
|                                           |            | 3       | 0         |            | 23.35                     | -1.13          | 20.07     | 7.00         | 38.45          | PASS    |
|                                           |            | 3       | 1         |            | 23.43                     | -1.13          | 20.15     | 7.00         | 38.45          | PASS    |
|                                           |            | 3       | 2         |            | 23.37                     | -1.13          | 20.09     | 7.00         | 38.45          | PASS    |
|                                           |            | 6       | 0         |            | 22.39                     | -1.13          | 19.11     | 7.00         | 38.45          | PASS    |
|                                           |            | 1       | 0         | 16QAM      | 22.81                     | -1.13          | 19.53     | 7.00         | 38.45          | PASS    |
|                                           |            | 1       | 2         |            | 22.85                     | -1.13          | 19.57     | 7.00         | 38.45          | PASS    |
|                                           |            | 1       | 5         |            | 22.87                     | -1.13          | 19.59     | 7.00         | 38.45          | PASS    |
|                                           |            | 3       | 0         |            | 22.53                     | -1.13          | 19.25     | 7.00         | 38.45          | PASS    |
|                                           |            | 3       | 1         |            | 22.51                     | -1.13          | 19.23     | 7.00         | 38.45          | PASS    |
|                                           |            | 3       | 2         |            | 22.52                     | -1.13          | 19.24     | 7.00         | 38.45          | PASS    |
|                                           |            | 6       | 0         |            | 21.41                     | -1.13          | 18.13     | 7.00         | 38.45          | PASS    |
|                                           | Middle     | 1       | 0         | QPSK       | 23.50                     | -1.13          | 20.22     | 7.00         | 38.45          | PASS    |
|                                           |            | 1       | 2         |            | 23.55                     | -1.13          | 20.27     | 7.00         | 38.45          | PASS    |
|                                           |            | 1       | 5         |            | 23.51                     | -1.13          | 20.23     | 7.00         | 38.45          | PASS    |
|                                           |            | 3       | 0         |            | 23.59                     | -1.13          | 20.31     | 7.00         | 38.45          | PASS    |
|                                           |            | 3       | 1         |            | 23.64                     | -1.13          | 20.36     | 7.00         | 38.45          | PASS    |
|                                           |            | 3       | 2         |            | 23.65                     | -1.13          | 20.37     | 7.00         | 38.45          | PASS    |
|                                           |            | 6       | 0         |            | 22.60                     | -1.13          | 19.32     | 7.00         | 38.45          | PASS    |
|                                           |            | 1       | 0         | 16QAM      | 23.34                     | -1.13          | 20.06     | 7.00         | 38.45          | PASS    |
|                                           |            | 1       | 2         |            | 23.32                     | -1.13          | 20.04     | 7.00         | 38.45          | PASS    |
|                                           |            | 1       | 5         |            | 23.24                     | -1.13          | 19.96     | 7.00         | 38.45          | PASS    |
|                                           |            | 3       | 0         |            | 22.44                     | -1.13          | 19.16     | 7.00         | 38.45          | PASS    |
|                                           |            | 3       | 1         |            | 22.51                     | -1.13          | 19.23     | 7.00         | 38.45          | PASS    |
|                                           |            | 3       | 2         |            | 22.52                     | -1.13          | 19.24     | 7.00         | 38.45          | PASS    |
|                                           |            | 6       | 0         |            | 21.60                     | -1.13          | 18.32     | 7.00         | 38.45          | PASS    |
|                                           | Highest    | 1       | 0         | QPSK       | 23.75                     | -1.13          | 20.47     | 7.00         | 38.45          | PASS    |
|                                           |            | 1       | 2         |            | 23.70                     | -1.13          | 20.42     | 7.00         | 38.45          | PASS    |
|                                           |            | 1       | 5         |            | 23.69                     | -1.13          | 20.41     | 7.00         | 38.45          | PASS    |
|                                           |            | 3       | 0         |            | 23.57                     | -1.13          | 20.29     | 7.00         | 38.45          | PASS    |
|                                           |            | 3       | 1         |            | 23.60                     | -1.13          | 20.32     | 7.00         | 38.45          | PASS    |
|                                           |            | 3       | 2         |            | 23.63                     | -1.13          | 20.35     | 7.00         | 38.45          | PASS    |
|                                           |            | 6       | 0         |            | 22.56                     | -1.13          | 19.28     | 7.00         | 38.45          | PASS    |
|                                           |            | 1       | 0         | 16QAM      | 22.68                     | -1.13          | 19.40     | 7.00         | 38.45          | PASS    |
|                                           |            | 1       | 2         |            | 22.77                     | -1.13          | 19.49     | 7.00         | 38.45          | PASS    |
|                                           |            | 1       | 5         |            | 22.74                     | -1.13          | 19.46     | 7.00         | 38.45          | PASS    |
|                                           |            | 3       | 0         |            | 22.54                     | -1.13          | 19.26     | 7.00         | 38.45          | PASS    |
|                                           |            | 3       | 1         |            | 22.58                     | -1.13          | 19.30     | 7.00         | 38.45          | PASS    |
|                                           |            | 3       | 2         |            | 22.54                     | -1.13          | 19.26     | 7.00         | 38.45          | PASS    |
|                                           |            | 6       | 0         |            | 21.42                     | -1.13          | 18.14     | 7.00         | 38.45          | PASS    |



| Radiated Power (ERP) for LTE Band 5 /3M |            |         |           |            |                           |                |           |              |                |         |
|-----------------------------------------|------------|---------|-----------|------------|---------------------------|----------------|-----------|--------------|----------------|---------|
| BW (MHz)                                | UL Channel | RB Size | RB offset | Modulation | Conduction AVG Power(dBm) | Ant Gain (dBi) | ERP (dBm) | ERP Limit(W) | ERP Limit(dBm) | Verdict |
| 3                                       | Lowest     | 1       | 0         | QPSK       | 23.67                     | -1.13          | 20.39     | 7.00         | 38.45          | PASS    |
|                                         |            | 1       | 7         |            | 23.76                     | -1.13          | 20.48     | 7.00         | 38.45          | PASS    |
|                                         |            | 1       | 14        |            | 23.69                     | -1.13          | 20.41     | 7.00         | 38.45          | PASS    |
|                                         |            | 8       | 0         |            | 22.35                     | -1.13          | 19.07     | 7.00         | 38.45          | PASS    |
|                                         |            | 8       | 4         |            | 22.39                     | -1.13          | 19.11     | 7.00         | 38.45          | PASS    |
|                                         |            | 8       | 7         |            | 22.31                     | -1.13          | 19.03     | 7.00         | 38.45          | PASS    |
|                                         |            | 15      | 0         |            | 22.32                     | -1.13          | 19.04     | 7.00         | 38.45          | PASS    |
|                                         |            | 1       | 0         | 16QAM      | 22.83                     | -1.13          | 19.55     | 7.00         | 38.45          | PASS    |
|                                         |            | 1       | 7         |            | 22.88                     | -1.13          | 19.60     | 7.00         | 38.45          | PASS    |
|                                         |            | 1       | 14        |            | 22.80                     | -1.13          | 19.52     | 7.00         | 38.45          | PASS    |
|                                         |            | 8       | 0         |            | 21.42                     | -1.13          | 18.14     | 7.00         | 38.45          | PASS    |
|                                         |            | 8       | 4         |            | 21.34                     | -1.13          | 18.06     | 7.00         | 38.45          | PASS    |
|                                         |            | 8       | 7         |            | 21.78                     | -1.13          | 18.50     | 7.00         | 38.45          | PASS    |
|                                         |            | 15      | 0         |            | 21.36                     | -1.13          | 18.08     | 7.00         | 38.45          | PASS    |
|                                         | Middle     | 1       | 0         | QPSK       | 23.75                     | -1.13          | 20.47     | 7.00         | 38.45          | PASS    |
|                                         |            | 1       | 7         |            | 23.87                     | -1.13          | 20.59     | 7.00         | 38.45          | PASS    |
|                                         |            | 1       | 14        |            | 23.82                     | -1.13          | 20.54     | 7.00         | 38.45          | PASS    |
|                                         |            | 8       | 0         |            | 22.41                     | -1.13          | 19.13     | 7.00         | 38.45          | PASS    |
|                                         |            | 8       | 4         |            | 22.50                     | -1.13          | 19.22     | 7.00         | 38.45          | PASS    |
|                                         |            | 8       | 7         |            | 22.45                     | -1.13          | 19.17     | 7.00         | 38.45          | PASS    |
|                                         |            | 15      | 0         |            | 22.44                     | -1.13          | 19.16     | 7.00         | 38.45          | PASS    |
|                                         |            | 1       | 0         | 16QAM      | 22.17                     | -1.13          | 18.89     | 7.00         | 38.45          | PASS    |
|                                         |            | 1       | 7         |            | 22.18                     | -1.13          | 18.90     | 7.00         | 38.45          | PASS    |
|                                         |            | 1       | 14        |            | 22.19                     | -1.13          | 18.91     | 7.00         | 38.45          | PASS    |
|                                         |            | 8       | 0         |            | 22.10                     | -1.13          | 18.82     | 7.00         | 38.45          | PASS    |
|                                         |            | 8       | 4         |            | 21.68                     | -1.13          | 18.40     | 7.00         | 38.45          | PASS    |
|                                         |            | 8       | 7         |            | 21.67                     | -1.13          | 18.39     | 7.00         | 38.45          | PASS    |
|                                         |            | 15      | 0         |            | 21.48                     | -1.13          | 18.20     | 7.00         | 38.45          | PASS    |
|                                         | Highest    | 1       | 0         | QPSK       | 23.36                     | -1.13          | 20.08     | 7.00         | 38.45          | PASS    |
|                                         |            | 1       | 7         |            | 23.35                     | -1.13          | 20.07     | 7.00         | 38.45          | PASS    |
|                                         |            | 1       | 14        |            | 23.31                     | -1.13          | 20.03     | 7.00         | 38.45          | PASS    |
|                                         |            | 8       | 0         |            | 22.42                     | -1.13          | 19.14     | 7.00         | 38.45          | PASS    |
|                                         |            | 8       | 4         |            | 22.40                     | -1.13          | 19.12     | 7.00         | 38.45          | PASS    |
|                                         |            | 8       | 7         |            | 22.49                     | -1.13          | 19.21     | 7.00         | 38.45          | PASS    |
|                                         |            | 15      | 0         |            | 22.34                     | -1.13          | 19.06     | 7.00         | 38.45          | PASS    |
|                                         |            | 1       | 0         | 16QAM      | 23.36                     | -1.13          | 20.08     | 7.00         | 38.45          | PASS    |
|                                         |            | 1       | 7         |            | 23.38                     | -1.13          | 20.10     | 7.00         | 38.45          | PASS    |
|                                         |            | 1       | 14        |            | 23.29                     | -1.13          | 20.01     | 7.00         | 38.45          | PASS    |
|                                         |            | 8       | 0         |            | 21.87                     | -1.13          | 18.59     | 7.00         | 38.45          | PASS    |
|                                         |            | 8       | 4         |            | 21.86                     | -1.13          | 18.58     | 7.00         | 38.45          | PASS    |
|                                         |            | 8       | 7         |            | 21.54                     | -1.13          | 18.26     | 7.00         | 38.45          | PASS    |
|                                         |            | 15      | 0         |            | 21.88                     | -1.13          | 18.60     | 7.00         | 38.45          | PASS    |



| Radiated Power (ERP) for LTE Band 5 /5M |            |         |           |            |                           |                |           |              |                |         |
|-----------------------------------------|------------|---------|-----------|------------|---------------------------|----------------|-----------|--------------|----------------|---------|
| BW (MHz)                                | UL Channel | RB Size | RB offset | Modulation | Conduction AVG Power(dBm) | Ant Gain (dBi) | ERP (dBm) | ERP Limit(W) | ERP Limit(dBm) | Verdict |
| 5                                       | Lowest     | 1       | 0         | QPSK       | 23.46                     | -1.13          | 20.18     | 7.00         | 38.45          | PASS    |
|                                         |            | 1       | 12        |            | 23.41                     | -1.13          | 20.13     | 7.00         | 38.45          | PASS    |
|                                         |            | 1       | 24        |            | 23.44                     | -1.13          | 20.16     | 7.00         | 38.45          | PASS    |
|                                         |            | 12      | 0         |            | 22.46                     | -1.13          | 19.18     | 7.00         | 38.45          | PASS    |
|                                         |            | 12      | 6         |            | 22.35                     | -1.13          | 19.07     | 7.00         | 38.45          | PASS    |
|                                         |            | 12      | 11        |            | 22.38                     | -1.13          | 19.10     | 7.00         | 38.45          | PASS    |
|                                         |            | 25      | 0         |            | 22.49                     | -1.13          | 19.21     | 7.00         | 38.45          | PASS    |
|                                         |            | 1       | 0         | 16QAM      | 22.78                     | -1.13          | 19.50     | 7.00         | 38.45          | PASS    |
|                                         |            | 1       | 12        |            | 22.75                     | -1.13          | 19.47     | 7.00         | 38.45          | PASS    |
|                                         |            | 1       | 24        |            | 22.91                     | -1.13          | 19.63     | 7.00         | 38.45          | PASS    |
|                                         |            | 12      | 0         |            | 21.34                     | -1.13          | 18.06     | 7.00         | 38.45          | PASS    |
|                                         |            | 12      | 6         |            | 21.69                     | -1.13          | 18.41     | 7.00         | 38.45          | PASS    |
|                                         |            | 12      | 11        |            | 21.75                     | -1.13          | 18.47     | 7.00         | 38.45          | PASS    |
|                                         |            | 25      | 0         |            | 21.88                     | -1.13          | 18.60     | 7.00         | 38.45          | PASS    |
|                                         | Middle     | 1       | 0         | QPSK       | 23.58                     | -1.13          | 20.30     | 7.00         | 38.45          | PASS    |
|                                         |            | 1       | 12        |            | 23.63                     | -1.13          | 20.35     | 7.00         | 38.45          | PASS    |
|                                         |            | 1       | 24        |            | 23.65                     | -1.13          | 20.37     | 7.00         | 38.45          | PASS    |
|                                         |            | 12      | 0         |            | 22.47                     | -1.13          | 19.19     | 7.00         | 38.45          | PASS    |
|                                         |            | 12      | 6         |            | 22.59                     | -1.13          | 19.31     | 7.00         | 38.45          | PASS    |
|                                         |            | 12      | 11        |            | 22.45                     | -1.13          | 19.17     | 7.00         | 38.45          | PASS    |
|                                         |            | 25      | 0         |            | 22.47                     | -1.13          | 19.19     | 7.00         | 38.45          | PASS    |
|                                         |            | 1       | 0         | 16QAM      | 22.70                     | -1.13          | 19.42     | 7.00         | 38.45          | PASS    |
|                                         |            | 1       | 12        |            | 22.66                     | -1.13          | 19.38     | 7.00         | 38.45          | PASS    |
|                                         |            | 1       | 24        |            | 22.72                     | -1.13          | 19.44     | 7.00         | 38.45          | PASS    |
|                                         |            | 12      | 0         |            | 21.96                     | -1.13          | 18.68     | 7.00         | 38.45          | PASS    |
|                                         |            | 12      | 6         |            | 21.52                     | -1.13          | 18.24     | 7.00         | 38.45          | PASS    |
|                                         |            | 12      | 11        |            | 21.59                     | -1.13          | 18.31     | 7.00         | 38.45          | PASS    |
|                                         |            | 25      | 0         |            | 21.47                     | -1.13          | 18.19     | 7.00         | 38.45          | PASS    |
|                                         | Highest    | 1       | 0         | QPSK       | 23.53                     | -1.13          | 20.25     | 7.00         | 38.45          | PASS    |
|                                         |            | 1       | 12        |            | 23.37                     | -1.13          | 20.09     | 7.00         | 38.45          | PASS    |
|                                         |            | 1       | 24        |            | 23.45                     | -1.13          | 20.17     | 7.00         | 38.45          | PASS    |
|                                         |            | 12      | 0         |            | 22.44                     | -1.13          | 19.16     | 7.00         | 38.45          | PASS    |
|                                         |            | 12      | 6         |            | 22.50                     | -1.13          | 19.22     | 7.00         | 38.45          | PASS    |
|                                         |            | 12      | 11        |            | 22.47                     | -1.13          | 19.19     | 7.00         | 38.45          | PASS    |
|                                         |            | 25      | 0         |            | 22.33                     | -1.13          | 19.05     | 7.00         | 38.45          | PASS    |
|                                         |            | 1       | 0         | 16QAM      | 21.95                     | -1.13          | 18.67     | 7.00         | 38.45          | PASS    |
|                                         |            | 1       | 12        |            | 21.94                     | -1.13          | 18.66     | 7.00         | 38.45          | PASS    |
|                                         |            | 1       | 24        |            | 21.96                     | -1.13          | 18.68     | 7.00         | 38.45          | PASS    |
|                                         |            | 12      | 0         |            | 21.56                     | -1.13          | 18.28     | 7.00         | 38.45          | PASS    |
|                                         |            | 12      | 6         |            | 21.88                     | -1.13          | 18.60     | 7.00         | 38.45          | PASS    |
|                                         |            | 12      | 11        |            | 21.83                     | -1.13          | 18.55     | 7.00         | 38.45          | PASS    |
|                                         |            | 25      | 0         |            | 21.83                     | -1.13          | 18.55     | 7.00         | 38.45          | PASS    |



| Radiated Power (ERP) for LTE Band 5 /10M |            |         |           |            |                           |                |           |              |                |         |
|------------------------------------------|------------|---------|-----------|------------|---------------------------|----------------|-----------|--------------|----------------|---------|
| BW (MHz)                                 | UL Channel | RB Size | RB offset | Modulation | Conduction AVG Power(dBm) | Ant Gain (dBi) | ERP (dBm) | ERP Limit(W) | ERP Limit(dBm) | Verdict |
| 10                                       | Lowest     | 1       | 0         | QPSK       | 23.68                     | -1.13          | 20.40     | 7.00         | 38.45          | PASS    |
|                                          |            | 1       | 24        |            | 23.75                     | -1.13          | 20.47     | 7.00         | 38.45          | PASS    |
|                                          |            | 1       | 49        |            | 23.74                     | -1.13          | 20.46     | 7.00         | 38.45          | PASS    |
|                                          |            | 25      | 0         |            | 22.41                     | -1.13          | 19.13     | 7.00         | 38.45          | PASS    |
|                                          |            | 25      | 12        |            | 22.55                     | -1.13          | 19.27     | 7.00         | 38.45          | PASS    |
|                                          |            | 25      | 24        |            | 22.47                     | -1.13          | 19.19     | 7.00         | 38.45          | PASS    |
|                                          |            | 50      | 0         |            | 22.58                     | -1.13          | 19.30     | 7.00         | 38.45          | PASS    |
|                                          | Middle     | 1       | 0         | QPSK       | 23.4                      | -1.13          | 20.12     | 7.00         | 38.45          | PASS    |
|                                          |            | 1       | 24        |            | 23.46                     | -1.13          | 20.18     | 7.00         | 38.45          | PASS    |
|                                          |            | 1       | 49        |            | 23.55                     | -1.13          | 20.27     | 7.00         | 38.45          | PASS    |
|                                          |            | 25      | 0         |            | 22.57                     | -1.13          | 19.29     | 7.00         | 38.45          | PASS    |
|                                          |            | 25      | 12        |            | 22.46                     | -1.13          | 19.18     | 7.00         | 38.45          | PASS    |
|                                          |            | 25      | 24        |            | 22.54                     | -1.13          | 19.26     | 7.00         | 38.45          | PASS    |
|                                          |            | 50      | 0         |            | 22.56                     | -1.13          | 19.28     | 7.00         | 38.45          | PASS    |
|                                          | Highest    | 1       | 0         | QPSK       | 23.82                     | -1.13          | 20.54     | 7.00         | 38.45          | PASS    |
|                                          |            | 1       | 24        |            | 23.69                     | -1.13          | 20.41     | 7.00         | 38.45          | PASS    |
|                                          |            | 1       | 49        |            | 23.74                     | -1.13          | 20.46     | 7.00         | 38.45          | PASS    |
|                                          |            | 25      | 0         |            | 22.62                     | -1.13          | 19.34     | 7.00         | 38.45          | PASS    |
|                                          |            | 25      | 12        |            | 22.61                     | -1.13          | 19.33     | 7.00         | 38.45          | PASS    |
|                                          |            | 25      | 24        |            | 22.56                     | -1.13          | 19.28     | 7.00         | 38.45          | PASS    |
|                                          |            | 50      | 0         |            | 22.6                      | -1.13          | 19.32     | 7.00         | 38.45          | PASS    |



| Radiated Power (EIRP) for LTE Band 7 /5M |            |         |           |            |                           |                |            |               |                 |         |
|------------------------------------------|------------|---------|-----------|------------|---------------------------|----------------|------------|---------------|-----------------|---------|
| BW (MHz)                                 | UL Channel | RB Size | RB offset | Modulation | Conduction AVG Power(dBm) | Ant Gain (dBi) | EIRP (dBm) | EIRP Limit(W) | EIRP Limit(dBm) | Verdict |
| 5                                        | Lowest     | 1       | 0         | QPSK       | 21.3                      | 0.61           | 21.91      | 2.00          | 33.01           | PASS    |
|                                          |            | 1       | 12        |            | 21.51                     | 0.61           | 22.12      | 2.00          | 33.01           | PASS    |
|                                          |            | 1       | 24        |            | 20.92                     | 0.61           | 21.53      | 2.00          | 33.01           | PASS    |
|                                          |            | 12      | 0         |            | 21.36                     | 0.61           | 21.97      | 2.00          | 33.01           | PASS    |
|                                          |            | 12      | 6         |            | 21.38                     | 0.61           | 21.99      | 2.00          | 33.01           | PASS    |
|                                          |            | 12      | 11        |            | 21.16                     | 0.61           | 21.77      | 2.00          | 33.01           | PASS    |
|                                          |            | 25      | 0         |            | 21.23                     | 0.61           | 21.84      | 2.00          | 33.01           | PASS    |
|                                          |            | 1       | 0         | 16QAM      | 21.35                     | 0.61           | 21.96      | 2.00          | 33.01           | PASS    |
|                                          |            | 1       | 12        |            | 21.59                     | 0.61           | 22.20      | 2.00          | 33.01           | PASS    |
|                                          |            | 1       | 24        |            | 21.04                     | 0.61           | 21.65      | 2.00          | 33.01           | PASS    |
|                                          |            | 12      | 0         |            | 20.55                     | 0.61           | 21.16      | 2.00          | 33.01           | PASS    |
|                                          |            | 12      | 6         |            | 20.53                     | 0.61           | 21.14      | 2.00          | 33.01           | PASS    |
|                                          |            | 12      | 11        |            | 20.65                     | 0.61           | 21.26      | 2.00          | 33.01           | PASS    |
|                                          |            | 25      | 0         |            | 20.76                     | 0.61           | 21.37      | 2.00          | 33.01           | PASS    |
|                                          | Middle     | 1       | 0         | QPSK       | 23.04                     | 0.61           | 23.65      | 2.00          | 33.01           | PASS    |
|                                          |            | 1       | 12        |            | 22.92                     | 0.61           | 23.53      | 2.00          | 33.01           | PASS    |
|                                          |            | 1       | 24        |            | 22.56                     | 0.61           | 23.17      | 2.00          | 33.01           | PASS    |
|                                          |            | 12      | 0         |            | 21.8                      | 0.61           | 22.41      | 2.00          | 33.01           | PASS    |
|                                          |            | 12      | 6         |            | 21.8                      | 0.61           | 22.41      | 2.00          | 33.01           | PASS    |
|                                          |            | 12      | 11        |            | 21.86                     | 0.61           | 22.47      | 2.00          | 33.01           | PASS    |
|                                          |            | 25      | 0         |            | 21.89                     | 0.61           | 22.50      | 2.00          | 33.01           | PASS    |
|                                          |            | 1       | 0         | 16QAM      | 22.37                     | 0.61           | 22.98      | 2.00          | 33.01           | PASS    |
|                                          |            | 1       | 12        |            | 22.3                      | 0.61           | 22.91      | 2.00          | 33.01           | PASS    |
|                                          |            | 1       | 24        |            | 22.32                     | 0.61           | 22.93      | 2.00          | 33.01           | PASS    |
|                                          |            | 12      | 0         |            | 20.85                     | 0.61           | 21.46      | 2.00          | 33.01           | PASS    |
|                                          |            | 12      | 6         |            | 20.91                     | 0.61           | 21.52      | 2.00          | 33.01           | PASS    |
|                                          |            | 12      | 11        |            | 20.81                     | 0.61           | 21.42      | 2.00          | 33.01           | PASS    |
|                                          |            | 25      | 0         |            | 20.84                     | 0.61           | 21.45      | 2.00          | 33.01           | PASS    |
|                                          | Highest    | 1       | 0         | QPSK       | 21.72                     | 0.61           | 22.33      | 2.00          | 33.01           | PASS    |
|                                          |            | 1       | 12        |            | 22.03                     | 0.61           | 22.64      | 2.00          | 33.01           | PASS    |
|                                          |            | 1       | 24        |            | 21.44                     | 0.61           | 22.05      | 2.00          | 33.01           | PASS    |
|                                          |            | 12      | 0         |            | 21.63                     | 0.61           | 22.24      | 2.00          | 33.01           | PASS    |
|                                          |            | 12      | 6         |            | 21.58                     | 0.61           | 22.19      | 2.00          | 33.01           | PASS    |
|                                          |            | 12      | 11        |            | 21.59                     | 0.61           | 22.20      | 2.00          | 33.01           | PASS    |
|                                          |            | 25      | 0         |            | 21.44                     | 0.61           | 22.05      | 2.00          | 33.01           | PASS    |
|                                          |            | 1       | 0         | 16QAM      | 21.66                     | 0.61           | 22.27      | 2.00          | 33.01           | PASS    |
|                                          |            | 1       | 12        |            | 21.61                     | 0.61           | 22.22      | 2.00          | 33.01           | PASS    |
|                                          |            | 1       | 24        |            | 21.43                     | 0.61           | 22.04      | 2.00          | 33.01           | PASS    |
|                                          |            | 12      | 0         |            | 20.68                     | 0.61           | 21.29      | 2.00          | 33.01           | PASS    |
|                                          |            | 12      | 6         |            | 20.65                     | 0.61           | 21.26      | 2.00          | 33.01           | PASS    |
|                                          |            | 12      | 11        |            | 20.6                      | 0.61           | 21.21      | 2.00          | 33.01           | PASS    |
|                                          |            | 25      | 0         |            | 20.53                     | 0.61           | 21.14      | 2.00          | 33.01           | PASS    |



| Radiated Power (EIRP) for LTE Band 7 /10M |            |         |           |            |                           |                |            |               |                 |         |
|-------------------------------------------|------------|---------|-----------|------------|---------------------------|----------------|------------|---------------|-----------------|---------|
| BW (MHz)                                  | UL Channel | RB Size | RB offset | Modulation | Conduction AVG Power(dBm) | Ant Gain (dBi) | EIRP (dBm) | EIRP Limit(W) | EIRP Limit(dBm) | Verdict |
| 10                                        | Lowest     | 1       | 0         | QPSK       | 21.09                     | 0.61           | 21.70      | 2.00          | 33.01           | PASS    |
|                                           |            | 1       | 24        |            | 21                        | 0.61           | 21.61      | 2.00          | 33.01           | PASS    |
|                                           |            | 1       | 49        |            | 21.25                     | 0.61           | 21.86      | 2.00          | 33.01           | PASS    |
|                                           |            | 25      | 0         |            | 21.04                     | 0.61           | 21.65      | 2.00          | 33.01           | PASS    |
|                                           |            | 25      | 12        |            | 21                        | 0.61           | 21.61      | 2.00          | 33.01           | PASS    |
|                                           |            | 25      | 24        |            | 21.08                     | 0.61           | 21.69      | 2.00          | 33.01           | PASS    |
|                                           |            | 50      | 0         |            | 21.02                     | 0.61           | 21.63      | 2.00          | 33.01           | PASS    |
|                                           | Middle     | 1       | 0         | QPSK       | 22.87                     | 0.61           | 23.48      | 2.00          | 33.01           | PASS    |
|                                           |            | 1       | 24        |            | 22.88                     | 0.61           | 23.49      | 2.00          | 33.01           | PASS    |
|                                           |            | 1       | 49        |            | 22.7                      | 0.61           | 23.31      | 2.00          | 33.01           | PASS    |
|                                           |            | 25      | 0         |            | 21.95                     | 0.61           | 22.56      | 2.00          | 33.01           | PASS    |
|                                           |            | 25      | 12        |            | 21.84                     | 0.61           | 22.45      | 2.00          | 33.01           | PASS    |
|                                           |            | 25      | 24        |            | 21.97                     | 0.61           | 22.58      | 2.00          | 33.01           | PASS    |
|                                           |            | 50      | 0         |            | 21.84                     | 0.61           | 22.45      | 2.00          | 33.01           | PASS    |
|                                           | Highest    | 1       | 0         | QPSK       | 21.78                     | 0.61           | 22.39      | 2.00          | 33.01           | PASS    |
|                                           |            | 1       | 24        |            | 21.94                     | 0.61           | 22.55      | 2.00          | 33.01           | PASS    |
|                                           |            | 1       | 49        |            | 21.93                     | 0.61           | 22.54      | 2.00          | 33.01           | PASS    |
|                                           |            | 25      | 0         |            | 21.78                     | 0.61           | 22.39      | 2.00          | 33.01           | PASS    |
|                                           |            | 25      | 12        |            | 21.72                     | 0.61           | 22.33      | 2.00          | 33.01           | PASS    |
|                                           |            | 25      | 24        |            | 21.56                     | 0.61           | 22.17      | 2.00          | 33.01           | PASS    |
|                                           |            | 50      | 0         |            | 21.73                     | 0.61           | 22.34      | 2.00          | 33.01           | PASS    |



| Radiated Power (EIRP) for LTE Band 7 /15M |            |         |           |            |                           |                |            |               |                 |         |
|-------------------------------------------|------------|---------|-----------|------------|---------------------------|----------------|------------|---------------|-----------------|---------|
| BW (MHz)                                  | UL Channel | RB Size | RB offset | Modulation | Conduction AVG Power(dBm) | Ant Gain (dBi) | EIRP (dBm) | EIRP Limit(W) | EIRP Limit(dBm) | Verdict |
| 15                                        | Lowest     | 1       | 0         | QPSK       | 21.13                     | 0.61           | 21.74      | 2.00          | 33.01           | PASS    |
|                                           |            | 1       | 37        |            | 20.8                      | 0.61           | 21.41      | 2.00          | 33.01           | PASS    |
|                                           |            | 1       | 74        |            | 21.54                     | 0.61           | 22.15      | 2.00          | 33.01           | PASS    |
|                                           |            | 36      | 0         |            | 20.93                     | 0.61           | 21.54      | 2.00          | 33.01           | PASS    |
|                                           |            | 36      | 18        |            | 20.82                     | 0.61           | 21.43      | 2.00          | 33.01           | PASS    |
|                                           |            | 36      | 39        |            | 21.13                     | 0.61           | 21.74      | 2.00          | 33.01           | PASS    |
|                                           |            | 75      | 0         |            | 20.98                     | 0.61           | 21.59      | 2.00          | 33.01           | PASS    |
|                                           | Middle     | 1       | 0         | QPSK       | 22.85                     | 0.61           | 23.46      | 2.00          | 33.01           | PASS    |
|                                           |            | 1       | 37        |            | 22.81                     | 0.61           | 23.42      | 2.00          | 33.01           | PASS    |
|                                           |            | 1       | 74        |            | 22.13                     | 0.61           | 22.74      | 2.00          | 33.01           | PASS    |
|                                           |            | 36      | 0         |            | 21.97                     | 0.61           | 22.58      | 2.00          | 33.01           | PASS    |
|                                           |            | 36      | 18        |            | 21.8                      | 0.61           | 22.41      | 2.00          | 33.01           | PASS    |
|                                           |            | 36      | 39        |            | 21.77                     | 0.61           | 22.38      | 2.00          | 33.01           | PASS    |
|                                           |            | 75      | 0         |            | 21.83                     | 0.61           | 22.44      | 2.00          | 33.01           | PASS    |
|                                           | Highest    | 1       | 0         | QPSK       | 21.79                     | 0.61           | 22.40      | 2.00          | 33.01           | PASS    |
|                                           |            | 1       | 37        |            | 21.88                     | 0.61           | 22.49      | 2.00          | 33.01           | PASS    |
|                                           |            | 1       | 74        |            | 21.67                     | 0.61           | 22.28      | 2.00          | 33.01           | PASS    |
|                                           |            | 36      | 0         |            | 21.74                     | 0.61           | 22.35      | 2.00          | 33.01           | PASS    |
|                                           |            | 36      | 18        |            | 21.69                     | 0.61           | 22.30      | 2.00          | 33.01           | PASS    |
|                                           |            | 36      | 39        |            | 21.68                     | 0.61           | 22.29      | 2.00          | 33.01           | PASS    |
|                                           |            | 75      | 0         |            | 21.7                      | 0.61           | 22.31      | 2.00          | 33.01           | PASS    |



| Radiated Power (EIRP) for LTE Band 7 /20M |            |         |           |            |                           |                |            |               |                 |         |
|-------------------------------------------|------------|---------|-----------|------------|---------------------------|----------------|------------|---------------|-----------------|---------|
| BW (MHz)                                  | UL Channel | RB Size | RB offset | Modulation | Conduction AVG Power(dBm) | Ant Gain (dBi) | EIRP (dBm) | EIRP Limit(W) | EIRP Limit(dBm) | Verdict |
| 20                                        | Lowest     | 1       | 0         | QPSK       | 21.06                     | 0.61           | 21.67      | 2.00          | 33.01           | PASS    |
|                                           |            | 1       | 49        |            | 20.84                     | 0.61           | 21.45      | 2.00          | 33.01           | PASS    |
|                                           |            | 1       | 99        |            | 22.64                     | 0.61           | 23.25      | 2.00          | 33.01           | PASS    |
|                                           |            | 50      | 0         |            | 20.73                     | 0.61           | 21.34      | 2.00          | 33.01           | PASS    |
|                                           |            | 50      | 24        |            | 20.94                     | 0.61           | 21.55      | 2.00          | 33.01           | PASS    |
|                                           |            | 50      | 49        |            | 21.61                     | 0.61           | 22.22      | 2.00          | 33.01           | PASS    |
|                                           |            | 100     | 0         |            | 21.26                     | 0.61           | 21.87      | 2.00          | 33.01           | PASS    |
|                                           | Middle     | 1       | 0         | QPSK       | 22.98                     | 0.61           | 23.59      | 2.00          | 33.01           | PASS    |
|                                           |            | 1       | 49        |            | 22.76                     | 0.61           | 23.37      | 2.00          | 33.01           | PASS    |
|                                           |            | 1       | 99        |            | 22.59                     | 0.61           | 23.20      | 2.00          | 33.01           | PASS    |
|                                           |            | 50      | 0         |            | 21.95                     | 0.61           | 22.56      | 2.00          | 33.01           | PASS    |
|                                           |            | 50      | 24        |            | 21.84                     | 0.61           | 22.45      | 2.00          | 33.01           | PASS    |
|                                           |            | 50      | 49        |            | 21.93                     | 0.61           | 22.54      | 2.00          | 33.01           | PASS    |
|                                           |            | 100     | 0         |            | 21.9                      | 0.61           | 22.51      | 2.00          | 33.01           | PASS    |
|                                           | Highest    | 1       | 0         | QPSK       | 21.65                     | 0.61           | 22.26      | 2.00          | 33.01           | PASS    |
|                                           |            | 1       | 49        |            | 21.77                     | 0.61           | 22.38      | 2.00          | 33.01           | PASS    |
|                                           |            | 1       | 99        |            | 22.21                     | 0.61           | 22.82      | 2.00          | 33.01           | PASS    |
|                                           |            | 50      | 0         |            | 21.59                     | 0.61           | 22.20      | 2.00          | 33.01           | PASS    |
|                                           |            | 50      | 24        |            | 21.77                     | 0.61           | 22.38      | 2.00          | 33.01           | PASS    |
|                                           |            | 50      | 49        |            | 21.79                     | 0.61           | 22.40      | 2.00          | 33.01           | PASS    |
|                                           |            | 100     | 0         |            | 21.59                     | 0.61           | 22.20      | 2.00          | 33.01           | PASS    |

## 5.2 PEAK TO AVERAGE RATIO

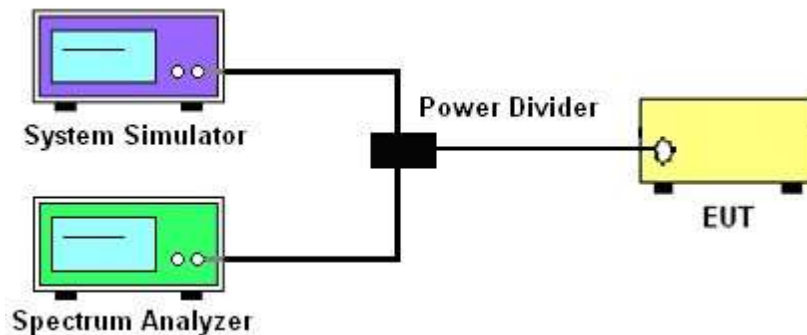
### TEST OVERVIEW

According to §24.232(d), power measurements for transmissions by stations authorized under this section may be made either in accordance with a commission-approved average power technique or in compliance with paragraph (e) of this section. In both instances, equipment employed must be authorized in accordance with the provisions of §24.51. In measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 db.

### TEST PROCEDURES

1. The testing follows FCC KDB 971168 v03r01 section.
2. The eut was connected to the peak and av system simulator& spectrum analyzer.
3. Select lowest, middle, and highest channels for each band and different modulation.
4. Set the test probe and measure average power of the spectrum analysis,

### TEST SETUP



### TEST RESULT

Note: The test data please reference to attachment “STS2407052W02\_Appendix GSM” , “STS2407052W02\_Appendix WCDMA” and “STS2407052W02\_Appendix LTE”.

### 5.3 OCCUPIED BANDWIDTH

#### TEST OVERVIEW

The occupied bandwidth, that is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power radiated by a given emission shall be measured.

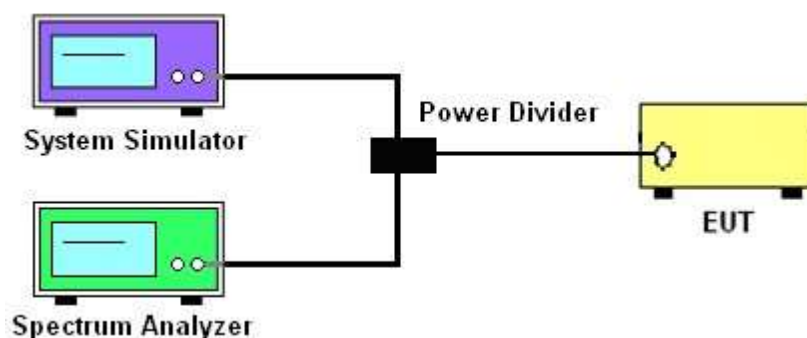
The 26 dB emission bandwidth is defined as the frequency range between two points, one above and one below the carrier frequency, at which the spectral density of the emission is attenuated 26 dB below the maximum in-band spectral density of the modulated signal. Spectral density (power per unit bandwidth) is to be measured with a detector of resolution bandwidth equal to approximately 1.0% of the emission bandwidth.

All modes of operation were investigated and the worst case configuration results are reported in this section.

#### TEST PROCEDURE

1. The signal analyzer's automatic bandwidth measurement capability was used to perform the 99% occupied bandwidth and the 26dB bandwidth. The bandwidth measurement was not influenced by any intermediate power nulls in the fundamental emission.
2. RBW = 1 – 5% of the expected OBW
3. VBW  $\geq 3 \times$  RBW
4. Detector = Peak
5. Trace mode = max hold
6. Sweep = auto couple
7. The trace was allowed to stabilize
8. If necessary, steps 2 – 7 were repeated after changing the RBW such that it would be within 1 – 5% of the 99% occupied bandwidth observed in Step 7

#### TEST SETUP



#### TEST RESULT

Note: The test data please reference to attachment "STS2407052W02\_Appendix GSM", "STS2407052W02\_Appendix WCDMA" and "STS2407052W02\_Appendix LTE".

## 5.4 FREQUENCY STABILITY

### TEST OVERVIEW

Frequency stability testing is performed in accordance with the guidelines of ANSI C63.26 2015.

The frequency stability of the transmitter is measured by:

- a.) Temperature: The temperature is varied from -30°C to +50°C in 10°C increments using an environmental chamber.
- b.) Primary Supply Voltage: The primary supply voltage is varied from 85% to 115% of the nominal value for non hand-carried battery and AC powered equipment. For hand-carried, battery-powered equipment, primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacturer.

For Part 22, the frequency stability of the transmitter shall be maintained within  $\pm 0.00025\%$  ( $\pm 2.5$  ppm) of the center frequency. For Part 24 the frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

### TEST PROCEDURE

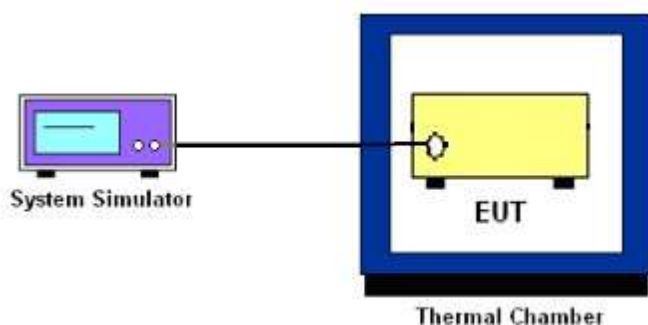
#### Temperature Variation

1. The testing follows FCC KDB 971168 D01 section 9.0
2. The EUT was set up in the thermal chamber and connected with the system simulator.
3. With power OFF, the temperature was decreased to -30°C and the EUT was stabilized before testing. Power was applied and the maximum change in frequency was recorded within one minute.
4. With power OFF, the temperature was raised in 10°C steps up to 50°C. The EUT was stabilized at each step for at least half an hour. Power was applied and the maximum frequency change was recorded within one minute.

#### Voltage Variation

1. The testing follows FCC KDB 971168 D01 Section 9.0.
2. The EUT was placed in a temperature chamber at  $25 \pm 5^\circ \text{C}$  and connected with the system simulator.
3. The power supply voltage to the EUT was varied from 85% to 115% of the nominal value measured at the input to the EUT.
4. The variation in frequency was measured for the worst case.

### TEST SETUP



TEST RESULT

| GSM 850 /836.6MHz |                   |                    |                     |        |        |
|-------------------|-------------------|--------------------|---------------------|--------|--------|
| Temperature (°C)  | Voltage<br>(Volt) | Freq. Dev.<br>(Hz) | Freq. Dev.<br>(ppm) | Limit  | Result |
| 50                | Normal Voltage    | 28.52              | 0.034               | 2.5ppm | PASS   |
| 40                |                   | 23.90              | 0.029               |        |        |
| 30                |                   | 30.32              | 0.036               |        |        |
| 20                |                   | 15.01              | 0.018               |        |        |
| 10                |                   | 16.69              | 0.020               |        |        |
| 0                 |                   | 35.44              | 0.042               |        |        |
| -10               |                   | 12.00              | 0.014               |        |        |
| -20               |                   | 13.55              | 0.016               |        |        |
| -30               |                   | 27.79              | 0.033               |        |        |
| 20                | Maximum Voltage   | 18.21              | 0.022               |        |        |
| 20                | BEP               | 14.21              | 0.017               |        |        |

| GPRS 850 /836.6MHz |                   |                    |                     |        |        |
|--------------------|-------------------|--------------------|---------------------|--------|--------|
| Temperature (°C)   | Voltage<br>(Volt) | Freq. Dev.<br>(Hz) | Freq. Dev.<br>(ppm) | Limit  | Result |
| 50                 | Normal Voltage    | 12.17              | 0.015               | 2.5ppm | PASS   |
| 40                 |                   | 22.70              | 0.027               |        |        |
| 30                 |                   | 20.51              | 0.025               |        |        |
| 20                 |                   | 12.37              | 0.015               |        |        |
| 10                 |                   | 35.12              | 0.042               |        |        |
| 0                  |                   | 24.36              | 0.029               |        |        |
| -10                |                   | 11.82              | 0.014               |        |        |
| -20                |                   | 16.99              | 0.020               |        |        |
| -30                |                   | 22.97              | 0.027               |        |        |
| 20                 | Maximum Voltage   | 32.76              | 0.039               |        |        |
| 20                 | BEP               | 34.02              | 0.041               |        |        |

| EGPRS 850 /836.6MHz |                   |                    |                     |        |        |
|---------------------|-------------------|--------------------|---------------------|--------|--------|
| Temperature (°C)    | Voltage<br>(Volt) | Freq. Dev.<br>(Hz) | Freq. Dev.<br>(ppm) | Limit  | Result |
| 50                  | Normal Voltage    | 33.54              | 0.040               | 2.5ppm | PASS   |
| 40                  |                   | 21.52              | 0.026               |        |        |
| 30                  |                   | 31.43              | 0.038               |        |        |
| 20                  |                   | 35.68              | 0.043               |        |        |
| 10                  |                   | 27.19              | 0.033               |        |        |
| 0                   |                   | 28.97              | 0.035               |        |        |
| -10                 |                   | 16.56              | 0.020               |        |        |
| -20                 |                   | 15.05              | 0.018               |        |        |
| -30                 |                   | 36.17              | 0.043               |        |        |
| 20                  | Maximum Voltage   | 14.21              | 0.017               |        |        |
| 20                  | BEP               | 31.79              | 0.038               |        |        |



| GSM 1900 / 1880MHz  |                    |               |               |                           |        |
|---------------------|--------------------|---------------|---------------|---------------------------|--------|
| Temperature<br>(°C) | Voltage            | Freq.<br>Dev. | Freq.<br>Dev. | Limit                     | Result |
|                     | (Volt)             | (Hz)          | (ppm)         |                           |        |
| 50                  | Normal Voltage     | 13.16         | 0.007         | Within Authorized<br>Band | PASS   |
| 40                  |                    | 23.37         | 0.012         |                           |        |
| 30                  |                    | 24.53         | 0.013         |                           |        |
| 20                  |                    | 36.07         | 0.019         |                           |        |
| 10                  |                    | 13.27         | 0.007         |                           |        |
| 0                   |                    | 29.91         | 0.016         |                           |        |
| -10                 |                    | 32.76         | 0.017         |                           |        |
| -20                 |                    | 27.75         | 0.015         |                           |        |
| -30                 |                    | 15.24         | 0.008         |                           |        |
| 20                  | Maximum<br>Voltage | 17.71         | 0.009         |                           |        |
| 20                  | BEP                | 16.73         | 0.009         |                           |        |

| GPRS 1900 / 1880MHz |                    |               |               |                           |        |
|---------------------|--------------------|---------------|---------------|---------------------------|--------|
| Temperature<br>(°C) | Voltage            | Freq.<br>Dev. | Freq.<br>Dev. | Limit                     | Result |
|                     | (Volt)             | (Hz)          | (ppm)         |                           |        |
| 50                  | Normal Voltage     | 27.51         | 0.015         | Within Authorized<br>Band | PASS   |
| 40                  |                    | 33.56         | 0.018         |                           |        |
| 30                  |                    | 17.85         | 0.009         |                           |        |
| 20                  |                    | 23.96         | 0.013         |                           |        |
| 10                  |                    | 31.91         | 0.017         |                           |        |
| 0                   |                    | 32.95         | 0.018         |                           |        |
| -10                 |                    | 26.16         | 0.014         |                           |        |
| -20                 |                    | 29.08         | 0.015         |                           |        |
| -30                 |                    | 36.06         | 0.019         |                           |        |
| 20                  | Maximum<br>Voltage | 26.79         | 0.014         |                           |        |
| 20                  | BEP                | 35.87         | 0.019         |                           |        |

| EGPRS 1900 / 1880MHz |                    |               |               |                           |        |
|----------------------|--------------------|---------------|---------------|---------------------------|--------|
| Temperature<br>(°C)  | Voltage            | Freq.<br>Dev. | Freq.<br>Dev. | Limit                     | Result |
|                      | (Volt)             | (Hz)          | (ppm)         |                           |        |
| 50                   | Normal Voltage     | 26.47         | 0.014         | Within Authorized<br>Band | PASS   |
| 40                   |                    | 31.34         | 0.017         |                           |        |
| 30                   |                    | 34.17         | 0.018         |                           |        |
| 20                   |                    | 33.13         | 0.018         |                           |        |
| 10                   |                    | 11.59         | 0.006         |                           |        |
| 0                    |                    | 26.91         | 0.014         |                           |        |
| -10                  |                    | 24.84         | 0.013         |                           |        |
| -20                  |                    | 16.94         | 0.009         |                           |        |
| -30                  |                    | 32.93         | 0.018         |                           |        |
| 20                   | Maximum<br>Voltage | 17.64         | 0.009         |                           |        |
| 20                   | BEP                | 26.89         | 0.014         |                           |        |



| UMTS Band 2 /1880MHz |                 |            |            |                        |        |
|----------------------|-----------------|------------|------------|------------------------|--------|
| Temperature (°C)     | Voltage         | Freq. Dev. | Freq. Dev. | Limit                  | Result |
|                      | (Volt)          | (Hz)       | (ppm)      |                        |        |
| 50                   | Normal Voltage  | 29.28      | 0.016      | Within Authorized Band | PASS   |
| 40                   |                 | 33.04      | 0.018      |                        |        |
| 30                   |                 | 18.58      | 0.010      |                        |        |
| 20                   |                 | 17.30      | 0.009      |                        |        |
| 10                   |                 | 29.55      | 0.016      |                        |        |
| 0                    |                 | 25.57      | 0.014      |                        |        |
| -10                  |                 | 14.89      | 0.008      |                        |        |
| -20                  |                 | 22.21      | 0.012      |                        |        |
| -30                  |                 | 23.68      | 0.013      |                        |        |
| 20                   | Maximum Voltage | 35.64      | 0.019      |                        |        |
| 20                   | BEP             | 29.23      | 0.016      |                        |        |

| HSDPA Band 2 /1880MHz |                 |            |            |                        |        |
|-----------------------|-----------------|------------|------------|------------------------|--------|
| Temperature (°C)      | Voltage         | Freq. Dev. | Freq. Dev. | Limit                  | Result |
|                       | (Volt)          | (Hz)       | (ppm)      |                        |        |
| 50                    | Normal Voltage  | 11.58      | 0.006      | Within Authorized Band | PASS   |
| 40                    |                 | 29.12      | 0.015      |                        |        |
| 30                    |                 | 21.65      | 0.012      |                        |        |
| 20                    |                 | 17.04      | 0.009      |                        |        |
| 10                    |                 | 20.39      | 0.011      |                        |        |
| 0                     |                 | 34.41      | 0.018      |                        |        |
| -10                   |                 | 11.77      | 0.006      |                        |        |
| -20                   |                 | 24.41      | 0.013      |                        |        |
| -30                   |                 | 32.37      | 0.017      |                        |        |
| 20                    | Maximum Voltage | 16.18      | 0.009      |                        |        |
| 20                    | BEP             | 29.23      | 0.016      |                        |        |

| HSUPA Band 2 /1880MHz |                 |            |            |                        |        |
|-----------------------|-----------------|------------|------------|------------------------|--------|
| Temperature (°C)      | Voltage         | Freq. Dev. | Freq. Dev. | Limit                  | Result |
|                       | (Volt)          | (Hz)       | (ppm)      |                        |        |
| 50                    | Normal Voltage  | 13.09      | 0.007      | Within Authorized Band | PASS   |
| 40                    |                 | 17.97      | 0.010      |                        |        |
| 30                    |                 | 13.83      | 0.007      |                        |        |
| 20                    |                 | 28.94      | 0.015      |                        |        |
| 10                    |                 | 30.47      | 0.016      |                        |        |
| 0                     |                 | 27.06      | 0.014      |                        |        |
| -10                   |                 | 20.26      | 0.011      |                        |        |
| -20                   |                 | 22.91      | 0.012      |                        |        |
| -30                   |                 | 21.45      | 0.011      |                        |        |
| 20                    | Maximum Voltage | 36.38      | 0.019      |                        |        |
| 20                    | BEP             | 13.44      | 0.007      |                        |        |



| UMTS Band 5 / 836.4MHz |                 |            |            |        |        |
|------------------------|-----------------|------------|------------|--------|--------|
| Temperature (°C)       | Voltage         | Freq. Dev. | Freq. Dev. | Limit  | Result |
|                        | (Volt)          | (Hz)       | (ppm)      |        |        |
| 50                     | Normal Voltage  | 32.45      | 0.039      | 2.5ppm | PASS   |
| 40                     |                 | 15.88      | 0.019      |        |        |
| 30                     |                 | 34.63      | 0.041      |        |        |
| 20                     |                 | 27.68      | 0.033      |        |        |
| 10                     |                 | 17.32      | 0.021      |        |        |
| 0                      |                 | 19.29      | 0.023      |        |        |
| -10                    |                 | 18.40      | 0.022      |        |        |
| -20                    |                 | 31.41      | 0.038      |        |        |
| -30                    |                 | 21.16      | 0.025      |        |        |
| 20                     | Maximum Voltage | 12.55      | 0.015      |        |        |
| 20                     | BEP             | 22.80      | 0.027      |        |        |

| HSDPA Band 5 / 836.4MHz |                 |            |            |        |        |
|-------------------------|-----------------|------------|------------|--------|--------|
| Temperature (°C)        | Voltage         | Freq. Dev. | Freq. Dev. | Limit  | Result |
|                         | (Volt)          | (Hz)       | (ppm)      |        |        |
| 50                      | Normal Voltage  | 15.01      | 0.018      | 2.5ppm | PASS   |
| 40                      |                 | 25.99      | 0.031      |        |        |
| 30                      |                 | 22.60      | 0.027      |        |        |
| 20                      |                 | 24.13      | 0.029      |        |        |
| 10                      |                 | 18.33      | 0.022      |        |        |
| 0                       |                 | 16.56      | 0.020      |        |        |
| -10                     |                 | 15.32      | 0.018      |        |        |
| -20                     |                 | 26.98      | 0.032      |        |        |
| -30                     |                 | 22.69      | 0.027      |        |        |
| 20                      | Maximum Voltage | 23.35      | 0.028      |        |        |
| 20                      | BEP             | 33.36      | 0.040      |        |        |

| HSUPA Band 5 / 836.4MHz |                 |            |            |        |        |
|-------------------------|-----------------|------------|------------|--------|--------|
| Temperature (°C)        | Voltage         | Freq. Dev. | Freq. Dev. | Limit  | Result |
|                         | (Volt)          | (Hz)       | (ppm)      |        |        |
| 50                      | Normal Voltage  | 13.06      | 0.016      | 2.5ppm | PASS   |
| 40                      |                 | 31.61      | 0.038      |        |        |
| 30                      |                 | 34.31      | 0.041      |        |        |
| 20                      |                 | 13.68      | 0.016      |        |        |
| 10                      |                 | 29.42      | 0.035      |        |        |
| 0                       |                 | 25.46      | 0.030      |        |        |
| -10                     |                 | 14.40      | 0.017      |        |        |
| -20                     |                 | 30.33      | 0.036      |        |        |
| -30                     |                 | 33.85      | 0.040      |        |        |
| 20                      | Maximum Voltage | 27.23      | 0.033      |        |        |
| 20                      | BEP             | 27.63      | 0.033      |        |        |



| UMTS Band 4 /1740MHz |                 |            |            |                        |        |
|----------------------|-----------------|------------|------------|------------------------|--------|
| Temperature (°C)     | Voltage         | Freq. Dev. | Freq. Dev. | Limit                  | Result |
|                      | (Volt)          | (Hz)       | (ppm)      |                        |        |
| 50                   | Normal Voltage  | 35.51      | 0.019      | Within Authorized Band | PASS   |
| 40                   |                 | 24.30      | 0.013      |                        |        |
| 30                   |                 | 15.13      | 0.008      |                        |        |
| 20                   |                 | 29.79      | 0.016      |                        |        |
| 10                   |                 | 26.15      | 0.014      |                        |        |
| 0                    |                 | 17.78      | 0.009      |                        |        |
| -10                  |                 | 17.85      | 0.009      |                        |        |
| -20                  |                 | 30.95      | 0.016      |                        |        |
| -30                  |                 | 32.27      | 0.017      |                        |        |
| 20                   | Maximum Voltage | 29.81      | 0.016      |                        |        |
| 20                   | BEP             | 28.74      | 0.015      |                        |        |

| HSDPA Band 4 /1740MHz |                 |            |            |                        |        |
|-----------------------|-----------------|------------|------------|------------------------|--------|
| Temperature (°C)      | Voltage         | Freq. Dev. | Freq. Dev. | Limit                  | Result |
|                       | (Volt)          | (Hz)       | (ppm)      |                        |        |
| 50                    | Normal Voltage  | 33.04      | 0.018      | Within Authorized Band | PASS   |
| 40                    |                 | 15.10      | 0.008      |                        |        |
| 30                    |                 | 31.46      | 0.017      |                        |        |
| 20                    |                 | 25.09      | 0.013      |                        |        |
| 10                    |                 | 18.89      | 0.010      |                        |        |
| 0                     |                 | 26.31      | 0.014      |                        |        |
| -10                   |                 | 34.93      | 0.019      |                        |        |
| -20                   |                 | 13.29      | 0.007      |                        |        |
| -30                   |                 | 23.02      | 0.012      |                        |        |
| 20                    | Maximum Voltage | 21.66      | 0.012      |                        |        |
| 20                    | BEP             | 11.78      | 0.006      |                        |        |

| HSUPA Band 4 /1740MHz |                 |            |            |                        |        |
|-----------------------|-----------------|------------|------------|------------------------|--------|
| Temperature (°C)      | Voltage         | Freq. Dev. | Freq. Dev. | Limit                  | Result |
|                       | (Volt)          | (Hz)       | (ppm)      |                        |        |
| 50                    | Normal Voltage  | 25.02      | 0.013      | Within Authorized Band | PASS   |
| 40                    |                 | 22.51      | 0.012      |                        |        |
| 30                    |                 | 20.12      | 0.011      |                        |        |
| 20                    |                 | 25.70      | 0.014      |                        |        |
| 10                    |                 | 31.61      | 0.017      |                        |        |
| 0                     |                 | 24.69      | 0.013      |                        |        |
| -10                   |                 | 27.50      | 0.015      |                        |        |
| -20                   |                 | 32.86      | 0.017      |                        |        |
| -30                   |                 | 13.73      | 0.007      |                        |        |
| 20                    | Maximum Voltage | 13.00      | 0.007      |                        |        |
| 20                    | BEP             | 15.20      | 0.008      |                        |        |



| LTE Band 2 (QPSK) / 1880MHz / BW10M |                 |            |            |        |        |
|-------------------------------------|-----------------|------------|------------|--------|--------|
| Temperature (°C)                    | Voltage         | Freq. Dev. | Freq. Dev. | Limit  | Result |
|                                     | (Volt)          | (Hz)       | (ppm)      |        |        |
| 50                                  | Normal Voltage  | 31.38      | 0.017      | 2.5ppm | PASS   |
| 40                                  |                 | 32.33      | 0.017      |        |        |
| 30                                  |                 | 24.78      | 0.013      |        |        |
| 20                                  |                 | 32.49      | 0.017      |        |        |
| 10                                  |                 | 30.93      | 0.016      |        |        |
| 0                                   |                 | 35.32      | 0.019      |        |        |
| -10                                 |                 | 14.63      | 0.008      |        |        |
| -20                                 |                 | 11.54      | 0.006      |        |        |
| -30                                 |                 | 13.15      | 0.007      |        |        |
| 20                                  | Maximum Voltage | 13.23      | 0.007      |        |        |
| 20                                  | BEP             | 31.44      | 0.017      |        |        |

| LTE Band 2 (QPSK) / 1880MHz / BW20M |                 |            |            |        |        |
|-------------------------------------|-----------------|------------|------------|--------|--------|
| Temperature (°C)                    | Voltage         | Freq. Dev. | Freq. Dev. | Limit  | Result |
|                                     | (Volt)          | (Hz)       | (ppm)      |        |        |
| 50                                  | Normal Voltage  | 27.30      | 0.015      | 2.5ppm | PASS   |
| 40                                  |                 | 27.87      | 0.015      |        |        |
| 30                                  |                 | 21.91      | 0.012      |        |        |
| 20                                  |                 | 33.10      | 0.018      |        |        |
| 10                                  |                 | 28.56      | 0.015      |        |        |
| 0                                   |                 | 15.83      | 0.008      |        |        |
| -10                                 |                 | 15.17      | 0.008      |        |        |
| -20                                 |                 | 11.89      | 0.006      |        |        |
| -30                                 |                 | 26.84      | 0.014      |        |        |
| 20                                  | Maximum Voltage | 31.25      | 0.017      |        |        |
| 20                                  | BEP             | 22.09      | 0.012      |        |        |

| LTE Band 4 (QPSK) / 1733MHz / BW10M |                 |            |            |        |        |
|-------------------------------------|-----------------|------------|------------|--------|--------|
| Temperature (°C)                    | Voltage         | Freq. Dev. | Freq. Dev. | Limit  | Result |
|                                     | (Volt)          | (Hz)       | (ppm)      |        |        |
| 50                                  | Normal Voltage  | 18.72      | 0.011      | 2.5ppm | PASS   |
| 40                                  |                 | 31.22      | 0.018      |        |        |
| 30                                  |                 | 16.94      | 0.010      |        |        |
| 20                                  |                 | 12.23      | 0.007      |        |        |
| 10                                  |                 | 29.33      | 0.017      |        |        |
| 0                                   |                 | 13.00      | 0.008      |        |        |
| -10                                 |                 | 16.87      | 0.010      |        |        |
| -20                                 |                 | 26.48      | 0.015      |        |        |
| -30                                 |                 | 19.49      | 0.011      |        |        |
| 20                                  | Maximum Voltage | 23.67      | 0.014      |        |        |
| 20                                  | BEP             | 14.59      | 0.008      |        |        |



| LTE Band 4 (QPSK) / 1733MHz / BW20M |                 |            |            |        |        |
|-------------------------------------|-----------------|------------|------------|--------|--------|
| Temperature (°C)                    | Voltage         | Freq. Dev. | Freq. Dev. | Limit  | Result |
|                                     | (Volt)          | (Hz)       | (ppm)      |        |        |
| 50                                  | Normal Voltage  | 32.46      | 0.019      | 2.5ppm | PASS   |
| 40                                  |                 | 34.31      | 0.020      |        |        |
| 30                                  |                 | 32.12      | 0.019      |        |        |
| 20                                  |                 | 26.67      | 0.015      |        |        |
| 10                                  |                 | 33.14      | 0.019      |        |        |
| 0                                   |                 | 21.25      | 0.012      |        |        |
| -10                                 |                 | 34.03      | 0.020      |        |        |
| -20                                 |                 | 26.31      | 0.015      |        |        |
| -30                                 |                 | 23.06      | 0.013      |        |        |
| 20                                  | Maximum Voltage | 23.03      | 0.013      |        |        |
| 20                                  | BEP             | 35.22      | 0.020      |        |        |

| LTE Band 5 (QPSK) / 836.5MHz / BW5M |                 |            |            |        |        |
|-------------------------------------|-----------------|------------|------------|--------|--------|
| Temperature (°C)                    | Voltage         | Freq. Dev. | Freq. Dev. | Limit  | Result |
|                                     | (Volt)          | (Hz)       | (ppm)      |        |        |
| 50                                  | Normal Voltage  | 21.44      | 0.030      | 2.5ppm | PASS   |
| 40                                  |                 | 25.72      | 0.036      |        |        |
| 30                                  |                 | 25.99      | 0.037      |        |        |
| 20                                  |                 | 30.20      | 0.043      |        |        |
| 10                                  |                 | 28.61      | 0.040      |        |        |
| 0                                   |                 | 18.55      | 0.026      |        |        |
| -10                                 |                 | 32.45      | 0.005      |        |        |
| -20                                 |                 | 29.64      | 0.042      |        |        |
| -30                                 |                 | 14.71      | 0.021      |        |        |
| 20                                  | Maximum Voltage | 23.42      | 0.033      |        |        |
| 20                                  | BEP             | 16.28      | 0.023      |        |        |

| LTE Band 5 (QPSK) / 836.5MHz / BW10M |                 |            |            |        |        |
|--------------------------------------|-----------------|------------|------------|--------|--------|
| Temperature (°C)                     | Voltage         | Freq. Dev. | Freq. Dev. | Limit  | Result |
|                                      | (Volt)          | (Hz)       | (ppm)      |        |        |
| 50                                   | Normal Voltage  | 11.78      | 0.017      | 2.5ppm | PASS   |
| 40                                   |                 | 14.18      | 0.020      |        |        |
| 30                                   |                 | 27.76      | 0.039      |        |        |
| 20                                   |                 | 28.81      | 0.041      |        |        |
| 10                                   |                 | 32.42      | 0.046      |        |        |
| 0                                    |                 | 25.24      | 0.036      |        |        |
| -10                                  |                 | 17.87      | 0.003      |        |        |
| -20                                  |                 | 15.50      | 0.022      |        |        |
| -30                                  |                 | 19.71      | 0.028      |        |        |
| 20                                   | Maximum Voltage | 35.98      | 0.051      |        |        |
| 20                                   | BEP             | 21.27      | 0.030      |        |        |



| LTE Band 7 (QPSK) / 2535MHz / BW10M |                 |            |            |        |        |
|-------------------------------------|-----------------|------------|------------|--------|--------|
| Temperature (°C)                    | Voltage         | Freq. Dev. | Freq. Dev. | Limit  | Result |
|                                     | (Volt)          | (Hz)       | (ppm)      |        |        |
| 50                                  | Normal Voltage  | 23.70      | 0.009      | 2.5ppm | PASS   |
| 40                                  |                 | 23.18      | 0.009      |        |        |
| 30                                  |                 | 27.54      | 0.011      |        |        |
| 20                                  |                 | 20.94      | 0.008      |        |        |
| 10                                  |                 | 27.11      | 0.011      |        |        |
| 0                                   |                 | 29.24      | 0.012      |        |        |
| -10                                 |                 | 28.82      | 0.011      |        |        |
| -20                                 |                 | 34.42      | 0.014      |        |        |
| -30                                 |                 | 32.85      | 0.013      |        |        |
| 20                                  | Maximum Voltage | 19.05      | 0.008      |        |        |
| 20                                  | BEP             | 35.19      | 0.014      |        |        |

| LTE Band 7 (QPSK) / 2535MHz / BW20M |                 |            |            |        |        |
|-------------------------------------|-----------------|------------|------------|--------|--------|
| Temperature (°C)                    | Voltage         | Freq. Dev. | Freq. Dev. | Limit  | Result |
|                                     | (Volt)          | (Hz)       | (ppm)      |        |        |
| 50                                  | Normal Voltage  | 22.21      | 0.009      | 2.5ppm | PASS   |
| 40                                  |                 | 24.43      | 0.010      |        |        |
| 30                                  |                 | 29.46      | 0.012      |        |        |
| 20                                  |                 | 35.07      | 0.014      |        |        |
| 10                                  |                 | 17.18      | 0.007      |        |        |
| 0                                   |                 | 28.85      | 0.011      |        |        |
| -10                                 |                 | 32.28      | 0.013      |        |        |
| -20                                 |                 | 23.10      | 0.009      |        |        |
| -30                                 |                 | 14.62      | 0.006      |        |        |
| 20                                  | Maximum Voltage | 21.39      | 0.008      |        |        |
| 20                                  | BEP             | 29.08      | 0.011      |        |        |

## 5.5 SPURIOUS EMISSIONS AT ANTENNA TERMINALS

### TEST OVERVIEW

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least  $43 + 10 \log (P)$  dB.

For Band 7:

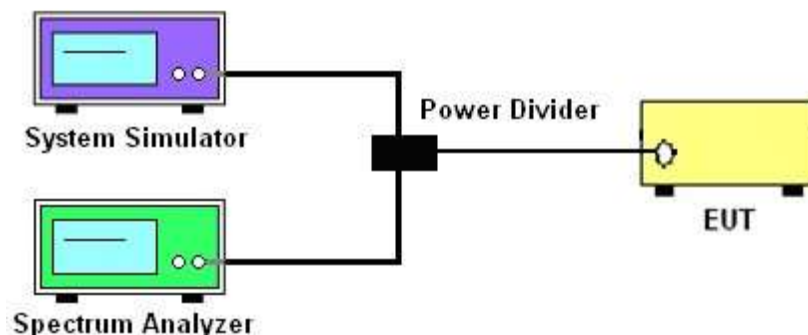
The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least  $55 + 10 \log (P)$  dB.

It is measured by means of a calibrated spectrum analyzer and scanned from 30 MHz up to a frequency including its 10th harmonic.

### TEST PROCEDURE

1. The testing FCC KDB 971168 D01 v03r01 Section 6.0. and ANSI C63.26-2015-Section 5.7.
2. The EUT was connected to the spectrum analyzer and system simulator via a power divider.
3. The RF output of EUT was connected to the spectrum analyzer by an RF cable and attenuator. The path loss was compensated to the results for each measurement.
4. The middle channel for the highest RF power within the transmitting frequency was measured.
5. The conducted spurious emission for the whole frequency range was taken.
6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
7. The limit line is derived from  $43 + 10\log(P)$  dB below the transmitter power P(Watts)  
 $= P(W) - [43 + 10\log(P)]$  (dB)  
 $= [30 + 10\log(P)]$  (dBm) -  $[43 + 10\log(P)]$  (dB)  
 $= -13\text{dBm}$ .

### TEST SETUP



### TEST RESULT

Note: The test data please reference to attachment "STS2407052W02\_Appendix GSM", "STS2407052W02\_Appendix WCDMA" and "STS2407052W02\_Appendix LTE".



## 5.6 BAND EDGE

### TEST OVERVIEW

#### 1. §22.917(a)

For operations in the 824 – 849 MHz band, the FCC limit is  $43 + 10\log_{10}(P[\text{Watts}])$  dB below the transmitter power  $P(\text{Watts})$  in a 100kHz bandwidth. However, in the 1MHz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

#### 2. §24.238 (a)

For operations in the 1850-1910 and 1930-1990 MHz band, the FCC limit is  $43 + 10\log_{10}(P[\text{Watts}])$  dB below the transmitter power  $P(\text{Watts})$  in a 1MHz bandwidth. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed

#### 3. §27.53 (h)

For operations in the 1710 – 1755 MHz band, the FCC limit is  $43 + 10\log_{10}(P[\text{Watts}])$  dB below the transmitter power  $P(\text{Watts})$  in a 1 MHz bandwidth. However, in the 1MHz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

#### 4. §27.53(m)(4)

For operations in the 2500 MHz ~ 2570 MHz band this section, the attenuation factor shall be not less than  $40 + 10 \log (P)$  dB on all frequencies between the channel edge and 5 megahertz from the channel edge,  $43 + 10 \log (P)$  dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and  $55 + 10 \log (P)$  dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less than  $43 + 10 \log (P)$  dB on all frequencies between 2490.5 MHz and 2496 MHz and  $55 + 10 \log (P)$  dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

#### 5. §27.53 (g)

For operations in the 698 -746 MHz band, the FCC limit is  $43 + 10\log_{10}(P[\text{Watts}])$  dB below the transmitter power  $P(\text{Watts})$  in a 100 kHz bandwidth. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

### TEST PROCEDURE

1. The testing FCC KDB 971168 D01 v03r01 Section 6.0 and ANSI C63.26-2015-Section 5.7
  2. Start and stop frequency were set such that the band edge would be placed in the center of the Plot.
  3. The EUT was connected to the spectrum analyzer and system simulator via a power divider.
  4. The RF output of EUT was connected to the spectrum analyzer by an RF cable and attenuator.
- The path loss was compensated to the results for each measurement.
5. The band edges of low and high channels for the highest RF powers were measured.
  6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

7. The limit line is derived from  $43 + 10\log(P)$  dB below the transmitter power P(Watts)

$$= P(W) - [43 + 10\log(P)] \text{ (dB)}$$

$$= [30 + 10\log(P)] \text{ (dBm)} - [43 + 10\log(P)] \text{ (dB)}$$

$$= -13\text{dBm.}$$

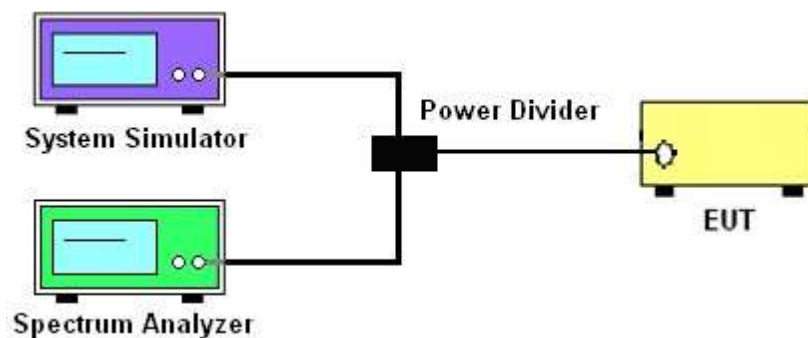
Band 7:

$$= P(W) - [55 + 10\log(P)] \text{ (dB)}$$

$$= [30 + 10\log(P)] \text{ (dBm)} - [55 + 10\log(P)] \text{ (dB)}$$

$$= -25\text{dBm.}$$

### TEST SETUP



### TEST RESULT

Note: The test data please reference to attachment "STS2407052W02\_Appendix GSM", "STS2407052W02\_Appendix WCDMA" and "STS2407052W02\_Appendix LTE".



## 5.7 FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

### TEST OVERVIEW

Radiated spurious emissions measurements are performed using the substitution method described in ANSI C63.26-2015 with the EUT transmitting into an integral antenna. Measurements on signals operating below 1GHz are performed using horizontally and vertically polarized tuned dipole antennas. Measurements on signals operating above 1GHz are performed using vertically and horizontally polarized horn antennas. All measurements are performed as peak measurements while the EUT is operating at maximum power and at the appropriate frequencies.

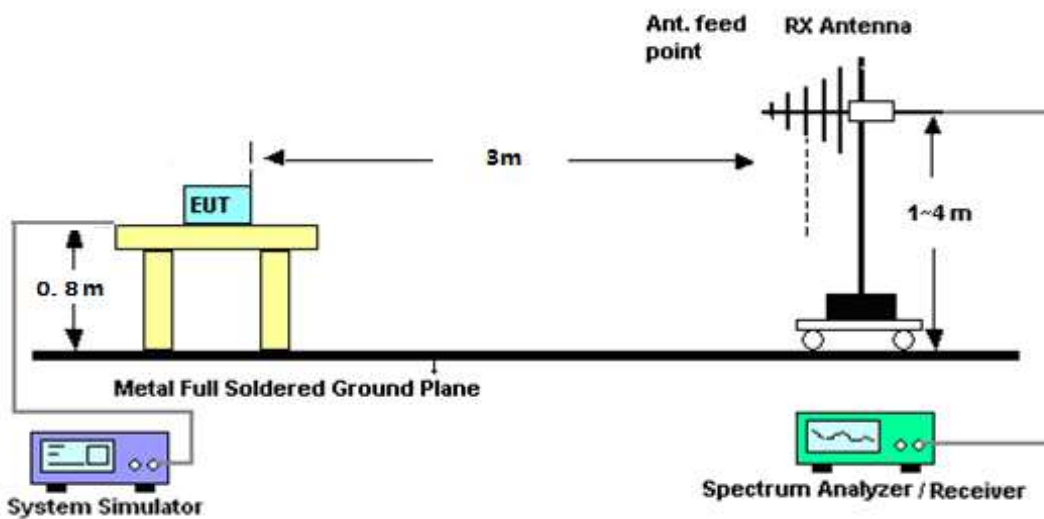
It is measured by means of a calibrated spectrum analyzer and scanned from 30 MHz up to a frequency including its 10th harmonic.

### TEST PROCEDURE

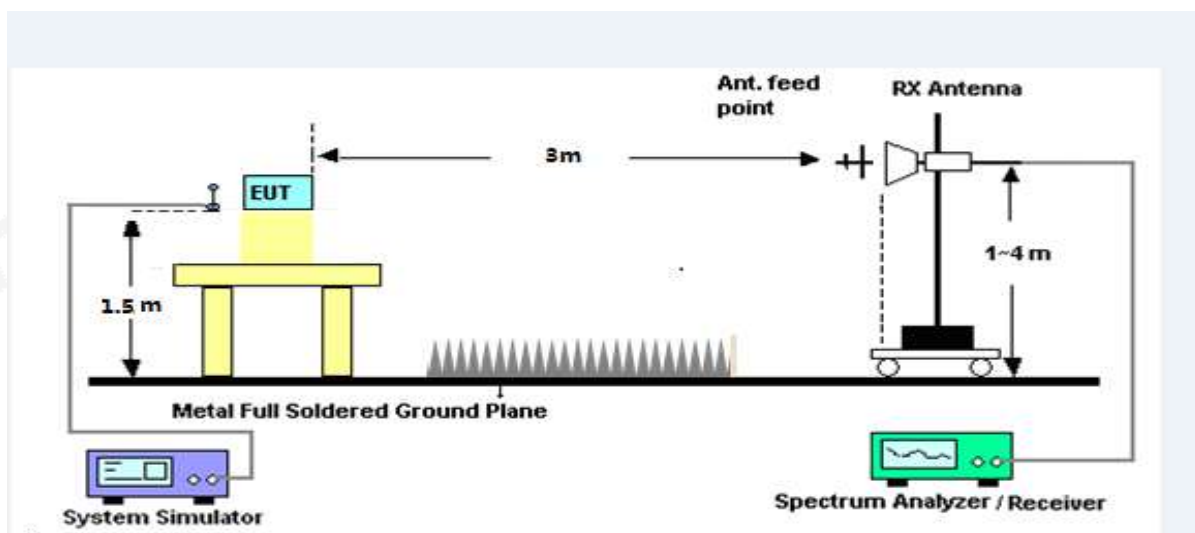
1. The testing FCC KDB 971168 D01 Section 5.8 and ANSI C63.26-2015-Section 5.5.
2. RBW = 100kHz for emissions below 1GHz and 1MHz for emissions above 1GHz
3. VBW  $\geq 3 \times$  RBW
4. Span = 1.5 times the OBW
5. No. of sweep points  $> 2 \times$  span/RBW
6. Detector = Peak
7. Trace mode = max hold
8. The trace was allowed to stabilize
9. Effective Isotropic Spurious Radiation was measured by substitution method according to TIA/EIA-603-D. The EUT was replaced by the substitution antenna at same location, and then a known power from S.G. was applied into the dipole antenna through a Tx cable, and then recorded the maximum Analyzer reading through raised and lowered the test antenna.  
PMea=S.G Level+ Ant-Cable loss; Margin=PMea-Limit.

## TEST SETUP

For radiated test from 30MHz to 1GHz



For radiated test from above 1GHz



**TEST RESULT**

**Note:** (1) Spurious emissions which are attenuated by more than 20dB below the permissible value for frequency below 1000MHz.

(2) Above 3.5GHz amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value

(3) Test is divided into three directions, X/Y/Z. X pattern for the worst.

| GSM 850: (30-9000)MHz                        |                     |          |       |               |                |                 |          |
|----------------------------------------------|---------------------|----------|-------|---------------|----------------|-----------------|----------|
| The Worst Test Results Channel 128/824.2 MHz |                     |          |       |               |                |                 |          |
| Frequency(MHz)                               | S<br>G.Lev<br>(dBm) | Ant(dBi) | Loss  | PMea<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 1648.32                                      | -40.59              | 9.40     | 4.75  | -35.94        | -13.00         | -22.94          | H        |
| 2472.63                                      | -39.53              | 10.60    | 8.39  | -37.32        | -13.00         | -24.32          | H        |
| 3296.75                                      | -31.64              | 12.00    | 11.79 | -31.43        | -13.00         | -18.43          | H        |
| 1648.32                                      | -43.83              | 9.40     | 4.75  | -39.18        | -13.00         | -26.18          | V        |
| 2472.63                                      | -45.03              | 10.60    | 8.39  | -42.82        | -13.00         | -29.82          | V        |
| 3296.75                                      | -42.69              | 12.00    | 11.79 | -42.48        | -13.00         | -29.48          | V        |
| The Worst Test Results Channel 190/836.6 MHz |                     |          |       |               |                |                 |          |
| Frequency(MHz)                               | S<br>G.Lev<br>(dBm) | Ant(dBi) | Loss  | PMea<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 1673.27                                      | -41.00              | 9.50     | 4.76  | -36.26        | -13.00         | -23.26          | H        |
| 2509.61                                      | -40.01              | 10.70    | 8.40  | -37.71        | -13.00         | -24.71          | H        |
| 3346.27                                      | -32.12              | 12.20    | 11.80 | -31.72        | -13.00         | -18.72          | H        |
| 1673.27                                      | -43.73              | 9.40     | 4.75  | -39.08        | -13.00         | -26.08          | V        |
| 2509.61                                      | -44.04              | 10.60    | 8.39  | -41.83        | -13.00         | -28.83          | V        |
| 3346.27                                      | -43.96              | 12.20    | 11.82 | -43.58        | -13.00         | -30.58          | V        |
| The Worst Test Results Channel 251/848.8 MHz |                     |          |       |               |                |                 |          |
| Frequency(MHz)                               | S<br>G.Lev<br>(dBm) | Ant(dBi) | Loss  | PMea<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 1697.62                                      | -41.52              | 9.60     | 4.77  | -36.69        | -13.00         | -23.69          | H        |
| 2546.19                                      | -40.49              | 10.80    | 8.50  | -38.19        | -13.00         | -25.19          | H        |
| 3394.89                                      | -31.16              | 12.50    | 11.90 | -30.56        | -13.00         | -17.56          | H        |
| 1697.62                                      | -43.39              | 9.60     | 4.77  | -38.56        | -13.00         | -25.56          | V        |
| 2546.19                                      | -45.41              | 10.80    | 8.50  | -43.11        | -13.00         | -30.11          | V        |
| 3394.89                                      | -42.64              | 12.50    | 11.90 | -42.04        | -13.00         | -29.04          | V        |



| GPRS 850: (30-9000)MHz                       |                     |          |       |               |                |                 |          |
|----------------------------------------------|---------------------|----------|-------|---------------|----------------|-----------------|----------|
| The Worst Test Results Channel 128/824.2 MHz |                     |          |       |               |                |                 |          |
| Frequency(MHz)                               | S<br>G.Lev<br>(dBm) | Ant(dBi) | Loss  | PMea<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 1648.22                                      | -40.81              | 9.40     | 4.75  | -36.16        | -13.00         | -23.16          | H        |
| 2472.65                                      | -39.17              | 10.60    | 8.39  | -36.96        | -13.00         | -23.96          | H        |
| 3296.91                                      | -30.98              | 12.00    | 11.79 | -30.77        | -13.00         | -17.77          | H        |
| 1648.22                                      | -44.59              | 9.40     | 4.75  | -39.94        | -13.00         | -26.94          | V        |
| 2472.65                                      | -45.17              | 10.60    | 8.39  | -42.96        | -13.00         | -29.96          | V        |
| 3296.91                                      | -43.02              | 12.00    | 11.79 | -42.81        | -13.00         | -29.81          | V        |
| The Worst Test Results Channel 190/836.6 MHz |                     |          |       |               |                |                 |          |
| Frequency(MHz)                               | S<br>G.Lev<br>(dBm) | Ant(dBi) | Loss  | PMea<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 1672.95                                      | -41.44              | 9.50     | 4.76  | -36.70        | -13.00         | -23.70          | H        |
| 2509.53                                      | -39.62              | 10.70    | 8.40  | -37.32        | -13.00         | -24.32          | H        |
| 3346.06                                      | -32.12              | 12.20    | 11.80 | -31.72        | -13.00         | -18.72          | H        |
| 1672.95                                      | -43.14              | 9.40     | 4.75  | -38.49        | -13.00         | -25.49          | V        |
| 2509.53                                      | -43.95              | 10.60    | 8.39  | -41.74        | -13.00         | -28.74          | V        |
| 3346.06                                      | -43.75              | 12.20    | 11.82 | -43.37        | -13.00         | -30.37          | V        |
| The Worst Test Results Channel 251/848.8 MHz |                     |          |       |               |                |                 |          |
| Frequency(MHz)                               | S<br>G.Lev<br>(dBm) | Ant(dBi) | Loss  | PMea<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 1697.34                                      | -40.25              | 9.60     | 4.77  | -35.42        | -13.00         | -22.42          | H        |
| 2546.41                                      | -39.37              | 10.80    | 8.50  | -37.07        | -13.00         | -24.07          | H        |
| 3394.96                                      | -31.48              | 12.50    | 11.90 | -30.88        | -13.00         | -17.88          | H        |
| 1697.34                                      | -43.60              | 9.60     | 4.77  | -38.77        | -13.00         | -25.77          | V        |
| 2546.41                                      | -44.99              | 10.80    | 8.50  | -42.69        | -13.00         | -29.69          | V        |
| 3394.96                                      | -43.83              | 12.50    | 11.90 | -43.23        | -13.00         | -30.23          | V        |



| EGPRS 850: (30-9000)MHz                      |                     |          |       |               |                |                 |          |
|----------------------------------------------|---------------------|----------|-------|---------------|----------------|-----------------|----------|
| The Worst Test Results Channel 128/824.2 MHz |                     |          |       |               |                |                 |          |
| Frequency(MHz)                               | S<br>G.Lev<br>(dBm) | Ant(dBi) | Loss  | PMea<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 1648.40                                      | -41.25              | 9.40     | 4.75  | -36.60        | -13.00         | -23.60          | H        |
| 2472.35                                      | -40.59              | 10.60    | 8.39  | -38.38        | -13.00         | -25.38          | H        |
| 3296.53                                      | -31.61              | 12.00    | 11.79 | -31.40        | -13.00         | -18.40          | H        |
| 1648.40                                      | -44.07              | 9.40     | 4.75  | -39.42        | -13.00         | -26.42          | V        |
| 2472.35                                      | -44.43              | 10.60    | 8.39  | -42.22        | -13.00         | -29.22          | V        |
| 3296.53                                      | -42.52              | 12.00    | 11.79 | -42.31        | -13.00         | -29.31          | V        |
| The Worst Test Results Channel 190/836.6 MHz |                     |          |       |               |                |                 |          |
| Frequency(MHz)                               | S<br>G.Lev<br>(dBm) | Ant(dBi) | Loss  | PMea<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 1672.87                                      | -41.28              | 9.50     | 4.76  | -36.54        | -13.00         | -23.54          | H        |
| 2509.79                                      | -39.77              | 10.70    | 8.40  | -37.47        | -13.00         | -24.47          | H        |
| 3346.32                                      | -31.46              | 12.20    | 11.80 | -31.06        | -13.00         | -18.06          | H        |
| 1672.87                                      | -43.55              | 9.40     | 4.75  | -38.90        | -13.00         | -25.90          | V        |
| 2509.79                                      | -44.83              | 10.60    | 8.39  | -42.62        | -13.00         | -29.62          | V        |
| 3346.32                                      | -43.09              | 12.20    | 11.82 | -42.71        | -13.00         | -29.71          | V        |
| The Worst Test Results Channel 251/848.8 MHz |                     |          |       |               |                |                 |          |
| Frequency(MHz)                               | S<br>G.Lev<br>(dBm) | Ant(dBi) | Loss  | PMea<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 1697.32                                      | -41.17              | 9.60     | 4.77  | -36.34        | -13.00         | -23.34          | H        |
| 2546.44                                      | -39.37              | 10.80    | 8.50  | -37.07        | -13.00         | -24.07          | H        |
| 3395.15                                      | -30.90              | 12.50    | 11.90 | -30.30        | -13.00         | -17.30          | H        |
| 1697.32                                      | -44.39              | 9.60     | 4.77  | -39.56        | -13.00         | -26.56          | V        |
| 2546.44                                      | -44.08              | 10.80    | 8.50  | -41.78        | -13.00         | -28.78          | V        |
| 3395.15                                      | -43.34              | 12.50    | 11.90 | -42.74        | -13.00         | -29.74          | V        |



| PCS 1900: (30-20000)MHz                          |                     |          |       |               |                |                 |          |
|--------------------------------------------------|---------------------|----------|-------|---------------|----------------|-----------------|----------|
| The Worst Test Results for Channel 512/1850.2MHz |                     |          |       |               |                |                 |          |
| Frequency(MHz)                                   | S<br>G.Lev<br>(dBm) | Ant(dBi) | Loss  | PMea<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 3700.09                                          | -33.62              | 12.60    | 12.93 | -33.95        | -13.00         | -20.95          | H        |
| 5550.25                                          | -34.75              | 13.10    | 17.11 | -38.76        | -13.00         | -25.76          | H        |
| 7400.92                                          | -32.78              | 11.50    | 22.20 | -43.48        | -13.00         | -30.48          | H        |
| 3700.09                                          | -35.51              | 12.60    | 12.93 | -35.84        | -13.00         | -22.84          | V        |
| 5550.25                                          | -33.86              | 13.10    | 17.11 | -37.87        | -13.00         | -24.87          | V        |
| 7400.92                                          | -33.08              | 11.50    | 22.20 | -43.78        | -13.00         | -30.78          | V        |
| The Worst Test Results for Channel 661/1880.0MHz |                     |          |       |               |                |                 |          |
| Frequency(MHz)                                   | S<br>G.Lev<br>(dBm) | Ant(dBi) | Loss  | PMea<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 3759.86                                          | -34.29              | 12.60    | 12.93 | -34.62        | -13.00         | -21.62          | H        |
| 5640.10                                          | -34.57              | 13.10    | 17.11 | -38.58        | -13.00         | -25.58          | H        |
| 7520.24                                          | -32.47              | 11.50    | 22.20 | -43.17        | -13.00         | -30.17          | H        |
| 3759.86                                          | -35.41              | 12.60    | 12.93 | -35.74        | -13.00         | -22.74          | V        |
| 5640.10                                          | -34.29              | 13.10    | 17.11 | -38.30        | -13.00         | -25.30          | V        |
| 7520.24                                          | -31.75              | 11.50    | 22.20 | -42.45        | -13.00         | -29.45          | V        |
| The Worst Test Results for Channel 810/1909.8MHz |                     |          |       |               |                |                 |          |
| Frequency(MHz)                                   | S<br>G.Lev<br>(dBm) | Ant(dBi) | Loss  | PMea<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 3819.56                                          | -34.27              | 12.60    | 12.93 | -34.60        | -13.00         | -21.60          | H        |
| 5729.02                                          | -34.52              | 13.10    | 17.11 | -38.53        | -13.00         | -25.53          | H        |
| 7639.00                                          | -33.23              | 11.50    | 22.20 | -43.93        | -13.00         | -30.93          | H        |
| 3819.56                                          | -34.99              | 12.60    | 12.93 | -35.32        | -13.00         | -22.32          | V        |
| 5729.02                                          | -34.39              | 13.10    | 17.11 | -38.40        | -13.00         | -25.40          | V        |
| 7639.00                                          | -32.68              | 11.50    | 22.20 | -43.38        | -13.00         | -30.38          | V        |



| GPRS1900: (30-20000)MHz                          |                     |          |       |               |                |                 |          |
|--------------------------------------------------|---------------------|----------|-------|---------------|----------------|-----------------|----------|
| The Worst Test Results for Channel 512/1850.2MHz |                     |          |       |               |                |                 |          |
| Frequency(MHz)                                   | S<br>G.Lev<br>(dBm) | Ant(dBi) | Loss  | PMea<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 3700.24                                          | -34.27              | 12.60    | 12.93 | -34.60        | -13.00         | -21.60          | H        |
| 5550.59                                          | -34.24              | 13.10    | 17.11 | -38.25        | -13.00         | -25.25          | H        |
| 7400.46                                          | -32.31              | 11.50    | 22.20 | -43.01        | -13.00         | -30.01          | H        |
| 3700.24                                          | -35.30              | 12.60    | 12.93 | -35.63        | -13.00         | -22.63          | V        |
| 5550.59                                          | -34.71              | 13.10    | 17.11 | -38.72        | -13.00         | -25.72          | V        |
| 7400.46                                          | -32.45              | 11.50    | 22.20 | -43.15        | -13.00         | -30.15          | V        |
| The Worst Test Results for Channel 661/1880.0MHz |                     |          |       |               |                |                 |          |
| Frequency(MHz)                                   | S<br>G.Lev<br>(dBm) | Ant(dBi) | Loss  | PMea<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 3759.87                                          | -34.85              | 12.60    | 12.93 | -35.18        | -13.00         | -22.18          | H        |
| 5639.98                                          | -34.88              | 13.10    | 17.11 | -38.89        | -13.00         | -25.89          | H        |
| 7519.87                                          | -32.42              | 11.50    | 22.20 | -43.12        | -13.00         | -30.12          | H        |
| 3759.87                                          | -35.94              | 12.60    | 12.93 | -36.27        | -13.00         | -23.27          | V        |
| 5639.98                                          | -34.91              | 13.10    | 17.11 | -38.92        | -13.00         | -25.92          | V        |
| 7519.87                                          | -32.71              | 11.50    | 22.20 | -43.41        | -13.00         | -30.41          | V        |
| The Worst Test Results for Channel 810/1909.8MHz |                     |          |       |               |                |                 |          |
| Frequency(MHz)                                   | S<br>G.Lev<br>(dBm) | Ant(dBi) | Loss  | PMea<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 3819.44                                          | -34.03              | 12.60    | 12.93 | -34.36        | -13.00         | -21.36          | H        |
| 5729.37                                          | -34.34              | 13.10    | 17.11 | -38.35        | -13.00         | -25.35          | H        |
| 7638.83                                          | -32.17              | 11.50    | 22.20 | -42.87        | -13.00         | -29.87          | H        |
| 3819.44                                          | -34.80              | 12.60    | 12.93 | -35.13        | -13.00         | -22.13          | V        |
| 5729.37                                          | -34.33              | 13.10    | 17.11 | -38.34        | -13.00         | -25.34          | V        |
| 7638.83                                          | -33.19              | 11.50    | 22.20 | -43.89        | -13.00         | -30.89          | V        |



| EGPRS 1900: (30-20000)MHz                        |                     |          |       |               |                |                 |          |
|--------------------------------------------------|---------------------|----------|-------|---------------|----------------|-----------------|----------|
| The Worst Test Results for Channel 512/1850.2MHz |                     |          |       |               |                |                 |          |
| Frequency(MHz)                                   | S<br>G.Lev<br>(dBm) | Ant(dBi) | Loss  | PMea<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 3700.46                                          | -34.13              | 12.60    | 12.93 | -34.46        | -13.00         | -21.46          | H        |
| 5550.40                                          | -35.43              | 13.10    | 17.11 | -39.44        | -13.00         | -26.44          | H        |
| 7400.68                                          | -33.43              | 11.50    | 22.20 | -44.13        | -13.00         | -31.13          | H        |
| 3700.46                                          | -35.95              | 12.60    | 12.93 | -36.28        | -13.00         | -23.28          | V        |
| 5550.40                                          | -34.74              | 13.10    | 17.11 | -38.75        | -13.00         | -25.75          | V        |
| 7400.68                                          | -33.10              | 11.50    | 22.20 | -43.80        | -13.00         | -30.80          | V        |
| The Worst Test Results for Channel 661/1880.0MHz |                     |          |       |               |                |                 |          |
| Frequency(MHz)                                   | S<br>G.Lev<br>(dBm) | Ant(dBi) | Loss  | PMea<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 3760.23                                          | -33.91              | 12.60    | 12.93 | -34.24        | -13.00         | -21.24          | H        |
| 5640.25                                          | -35.41              | 13.10    | 17.11 | -39.42        | -13.00         | -26.42          | H        |
| 7519.97                                          | -33.61              | 11.50    | 22.20 | -44.31        | -13.00         | -31.31          | H        |
| 3760.23                                          | -34.71              | 12.60    | 12.93 | -35.04        | -13.00         | -22.04          | V        |
| 5640.25                                          | -35.04              | 13.10    | 17.11 | -39.05        | -13.00         | -26.05          | V        |
| 7519.97                                          | -32.18              | 11.50    | 22.20 | -42.88        | -13.00         | -29.88          | V        |
| The Worst Test Results for Channel 810/1909.8MHz |                     |          |       |               |                |                 |          |
| Frequency(MHz)                                   | S<br>G.Lev<br>(dBm) | Ant(dBi) | Loss  | PMea<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 3819.41                                          | -34.30              | 12.60    | 12.93 | -34.63        | -13.00         | -21.63          | H        |
| 5729.13                                          | -34.60              | 13.10    | 17.11 | -38.61        | -13.00         | -25.61          | H        |
| 7638.88                                          | -33.54              | 11.50    | 22.20 | -44.24        | -13.00         | -31.24          | H        |
| 3819.41                                          | -35.40              | 12.60    | 12.93 | -35.73        | -13.00         | -22.73          | V        |
| 5729.13                                          | -34.54              | 13.10    | 17.11 | -38.55        | -13.00         | -25.55          | V        |
| 7638.88                                          | -33.17              | 11.50    | 22.20 | -43.87        | -13.00         | -30.87          | V        |



| WCDMA Band 2: (30-20000)MHz                       |                     |          |       |               |                |                 |          |
|---------------------------------------------------|---------------------|----------|-------|---------------|----------------|-----------------|----------|
| The Worst Test Results for Channel 9262/1852.4MHz |                     |          |       |               |                |                 |          |
| Frequency(MHz)                                    | S<br>G.Lev<br>(dBm) | Ant(dBi) | Loss  | PMea<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 3704.25                                           | -33.97              | 12.60    | 12.93 | -34.30        | -13.00         | -21.30          | H        |
| 5557.41                                           | -34.72              | 13.10    | 17.11 | -38.73        | -13.00         | -25.73          | H        |
| 7409.95                                           | -33.14              | 11.50    | 22.20 | -43.84        | -13.00         | -30.84          | H        |
| 3704.25                                           | -34.62              | 12.60    | 12.93 | -34.95        | -13.00         | -21.95          | V        |
| 5557.41                                           | -34.82              | 13.10    | 17.11 | -38.83        | -13.00         | -25.83          | V        |
| 7409.95                                           | -33.17              | 11.50    | 22.20 | -43.87        | -13.00         | -30.87          | V        |
| The Worst Test Results for Channel 9400/1880MHz   |                     |          |       |               |                |                 |          |
| Frequency(MHz)                                    | S<br>G.Lev<br>(dBm) | Ant(dBi) | Loss  | PMea<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 3759.91                                           | -33.95              | 12.60    | 12.93 | -34.28        | -13.00         | -21.28          | H        |
| 5640.21                                           | -34.12              | 13.10    | 17.11 | -38.13        | -13.00         | -25.13          | H        |
| 7519.91                                           | -32.55              | 11.50    | 22.20 | -43.25        | -13.00         | -30.25          | H        |
| 3759.91                                           | -35.39              | 12.60    | 12.93 | -35.72        | -13.00         | -22.72          | V        |
| 5640.21                                           | -33.91              | 13.10    | 17.11 | -37.92        | -13.00         | -24.92          | V        |
| 7519.91                                           | -32.41              | 11.50    | 22.20 | -43.11        | -13.00         | -30.11          | V        |
| The Worst Test Results for Channel 9538/1907.6MHz |                     |          |       |               |                |                 |          |
| Frequency(MHz)                                    | S<br>G.Lev<br>(dBm) | Ant(dBi) | Loss  | PMea<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 3815.44                                           | -33.87              | 12.60    | 12.93 | -34.20        | -13.00         | -21.20          | H        |
| 5722.60                                           | -34.55              | 13.10    | 17.11 | -38.56        | -13.00         | -25.56          | H        |
| 7630.43                                           | -32.30              | 11.50    | 22.20 | -43.00        | -13.00         | -30.00          | H        |
| 3815.44                                           | -35.42              | 12.60    | 12.93 | -35.75        | -13.00         | -22.75          | V        |
| 5722.60                                           | -34.49              | 13.10    | 17.11 | -38.50        | -13.00         | -25.50          | V        |
| 7630.43                                           | -32.76              | 11.50    | 22.20 | -43.46        | -13.00         | -30.46          | V        |



| HSUPA Band 2: (30-20000)MHz                       |                     |          |       |               |                |                 |          |
|---------------------------------------------------|---------------------|----------|-------|---------------|----------------|-----------------|----------|
| The Worst Test Results for Channel 9262/1852.4MHz |                     |          |       |               |                |                 |          |
| Frequency(MHz)                                    | S<br>G.Lev<br>(dBm) | Ant(dBi) | Loss  | PMea<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 3704.25                                           | -34.54              | 12.60    | 12.93 | -34.87        | -13.00         | -21.87          | H        |
| 5557.60                                           | -34.74              | 13.10    | 17.11 | -38.75        | -13.00         | -25.75          | H        |
| 7409.95                                           | -33.03              | 11.50    | 22.20 | -43.73        | -13.00         | -30.73          | H        |
| 3704.25                                           | -35.76              | 12.60    | 12.93 | -36.09        | -13.00         | -23.09          | V        |
| 5557.60                                           | -33.96              | 13.10    | 17.11 | -37.97        | -13.00         | -24.97          | V        |
| 7409.95                                           | -32.55              | 11.50    | 22.20 | -43.25        | -13.00         | -30.25          | V        |
| The Worst Test Results for Channel 9400/1880MHz   |                     |          |       |               |                |                 |          |
| Frequency(MHz)                                    | S<br>G.Lev<br>(dBm) | Ant(dBi) | Loss  | PMea<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 3759.86                                           | -34.24              | 12.60    | 12.93 | -34.57        | -13.00         | -21.57          | H        |
| 5640.27                                           | -34.44              | 13.10    | 17.11 | -38.45        | -13.00         | -25.45          | H        |
| 7520.18                                           | -32.23              | 11.50    | 22.20 | -42.93        | -13.00         | -29.93          | H        |
| 3759.86                                           | -34.70              | 12.60    | 12.93 | -35.03        | -13.00         | -22.03          | V        |
| 5640.27                                           | -34.02              | 13.10    | 17.11 | -38.03        | -13.00         | -25.03          | V        |
| 7520.18                                           | -31.77              | 11.50    | 22.20 | -42.47        | -13.00         | -29.47          | V        |
| The Worst Test Results for Channel 9538/1907.6MHz |                     |          |       |               |                |                 |          |
| Frequency(MHz)                                    | S<br>G.Lev<br>(dBm) | Ant(dBi) | Loss  | PMea<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 3815.63                                           | -34.69              | 12.60    | 12.93 | -35.02        | -13.00         | -22.02          | H        |
| 5722.79                                           | -35.01              | 13.10    | 17.11 | -39.02        | -13.00         | -26.02          | H        |
| 7630.17                                           | -33.39              | 11.50    | 22.20 | -44.09        | -13.00         | -31.09          | H        |
| 3815.63                                           | -35.76              | 12.60    | 12.93 | -36.09        | -13.00         | -23.09          | V        |
| 5722.79                                           | -34.95              | 13.10    | 17.11 | -38.96        | -13.00         | -25.96          | V        |
| 7630.17                                           | -31.89              | 11.50    | 22.20 | -42.59        | -13.00         | -29.59          | V        |



| HSDPA Band 2: (30-20000)MHz                       |                     |          |       |               |                |                 |          |
|---------------------------------------------------|---------------------|----------|-------|---------------|----------------|-----------------|----------|
| The Worst Test Results for Channel 9262/1852.4MHz |                     |          |       |               |                |                 |          |
| Frequency(MHz)                                    | S<br>G.Lev<br>(dBm) | Ant(dBi) | Loss  | PMea<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 3704.30                                           | -34.52              | 12.60    | 12.93 | -34.85        | -13.00         | -21.85          | H        |
| 5557.48                                           | -35.36              | 13.10    | 17.11 | -39.37        | -13.00         | -26.37          | H        |
| 7409.92                                           | -32.75              | 11.50    | 22.20 | -43.45        | -13.00         | -30.45          | H        |
| 3704.30                                           | -35.50              | 12.60    | 12.93 | -35.83        | -13.00         | -22.83          | V        |
| 5557.48                                           | -34.82              | 13.10    | 17.11 | -38.83        | -13.00         | -25.83          | V        |
| 7409.92                                           | -31.79              | 11.50    | 22.20 | -42.49        | -13.00         | -29.49          | V        |
| The Worst Test Results for Channel 9400/1880MHz   |                     |          |       |               |                |                 |          |
| Frequency(MHz)                                    | S<br>G.Lev<br>(dBm) | Ant(dBi) | Loss  | PMea<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 3760.09                                           | -34.05              | 12.60    | 12.93 | -34.38        | -13.00         | -21.38          | H        |
| 5639.99                                           | -34.21              | 13.10    | 17.11 | -38.22        | -13.00         | -25.22          | H        |
| 7520.27                                           | -33.38              | 11.50    | 22.20 | -44.08        | -13.00         | -31.08          | H        |
| 3760.09                                           | -35.77              | 12.60    | 12.93 | -36.10        | -13.00         | -23.10          | V        |
| 5639.99                                           | -34.76              | 13.10    | 17.11 | -38.77        | -13.00         | -25.77          | V        |
| 7520.27                                           | -32.25              | 11.50    | 22.20 | -42.95        | -13.00         | -29.95          | V        |
| The Worst Test Results for Channel 9538/1907.6MHz |                     |          |       |               |                |                 |          |
| Frequency(MHz)                                    | S<br>G.Lev<br>(dBm) | Ant(dBi) | Loss  | PMea<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 3815.59                                           | -34.04              | 12.60    | 12.93 | -34.37        | -13.00         | -21.37          | H        |
| 5722.49                                           | -35.22              | 13.10    | 17.11 | -39.23        | -13.00         | -26.23          | H        |
| 7630.04                                           | -33.16              | 11.50    | 22.20 | -43.86        | -13.00         | -30.86          | H        |
| 3815.59                                           | -35.59              | 12.60    | 12.93 | -35.92        | -13.00         | -22.92          | V        |
| 5722.49                                           | -34.59              | 13.10    | 17.11 | -38.60        | -13.00         | -25.60          | V        |
| 7630.04                                           | -32.56              | 11.50    | 22.20 | -43.26        | -13.00         | -30.26          | V        |



| WCDMA Band 4: (30-18000)MHz                       |                     |          |       |               |                |                 |          |
|---------------------------------------------------|---------------------|----------|-------|---------------|----------------|-----------------|----------|
| The Worst Test Results for Channel 1312/1712.4MHz |                     |          |       |               |                |                 |          |
| Frequency(MHz)                                    | S<br>G.Lev<br>(dBm) | Ant(dBi) | Loss  | PMea<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 3424.67                                           | -34.03              | 12.90    | 12.05 | -33.18        | -13.00         | -20.18          | H        |
| 5137.18                                           | -35.02              | 12.80    | 16.27 | -38.49        | -13.00         | -25.49          | H        |
| 6849.51                                           | -32.22              | 12.30    | 20.13 | -40.05        | -13.00         | -27.05          | H        |
| 3424.67                                           | -34.78              | 12.90    | 12.05 | -33.93        | -13.00         | -20.93          | V        |
| 5137.18                                           | -34.06              | 12.80    | 16.27 | -37.53        | -13.00         | -24.53          | V        |
| 6849.51                                           | -33.11              | 12.30    | 20.13 | -40.94        | -13.00         | -27.94          | V        |
| The Worst Test Results for Channel 1450/1740.0MHz |                     |          |       |               |                |                 |          |
| Frequency(MHz)                                    | S<br>G.Lev<br>(dBm) | Ant(dBi) | Loss  | PMea<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 3480.04                                           | -33.69              | 12.90    | 12.05 | -32.84        | -13.00         | -19.84          | H        |
| 5220.05                                           | -34.06              | 12.80    | 16.27 | -37.53        | -13.00         | -24.53          | H        |
| 6959.84                                           | -32.79              | 12.30    | 20.13 | -40.62        | -13.00         | -27.62          | H        |
| 3480.04                                           | -34.53              | 12.90    | 12.05 | -33.68        | -13.00         | -20.68          | V        |
| 5220.05                                           | -34.63              | 12.80    | 16.27 | -38.10        | -13.00         | -25.10          | V        |
| 6959.84                                           | -31.98              | 12.30    | 20.13 | -39.81        | -13.00         | -26.81          | V        |
| The Worst Test Results for Channel 1513/1752.6MHz |                     |          |       |               |                |                 |          |
| Frequency(MHz)                                    | S<br>G.Lev<br>(dBm) | Ant(dBi) | Loss  | PMea<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 3505.15                                           | -34.70              | 12.90    | 12.05 | -33.85        | -13.00         | -20.85          | H        |
| 5257.80                                           | -34.56              | 12.80    | 16.27 | -38.03        | -13.00         | -25.03          | H        |
| 7010.58                                           | -33.26              | 12.30    | 20.13 | -41.09        | -13.00         | -28.09          | H        |
| 3505.15                                           | -34.58              | 12.90    | 12.05 | -33.73        | -13.00         | -20.73          | V        |
| 5257.80                                           | -34.59              | 12.80    | 16.27 | -38.06        | -13.00         | -25.06          | V        |
| 7010.58                                           | -32.93              | 12.30    | 20.13 | -40.76        | -13.00         | -27.76          | V        |



| HSUPA Band 4: (30-18000)MHz                       |                     |          |       |               |                |                 |          |
|---------------------------------------------------|---------------------|----------|-------|---------------|----------------|-----------------|----------|
| The Worst Test Results for Channel 1312/1712.4MHz |                     |          |       |               |                |                 |          |
| Frequency(MHz)                                    | S<br>G.Lev<br>(dBm) | Ant(dBi) | Loss  | PMea<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 3424.84                                           | -33.54              | 12.90    | 12.05 | -32.69        | -13.00         | -19.69          | H        |
| 5137.21                                           | -34.91              | 12.80    | 16.27 | -38.38        | -13.00         | -25.38          | H        |
| 6849.60                                           | -32.76              | 12.30    | 20.13 | -40.59        | -13.00         | -27.59          | H        |
| 3424.84                                           | -35.89              | 12.90    | 12.05 | -35.04        | -13.00         | -22.04          | V        |
| 5137.21                                           | -34.22              | 12.80    | 16.27 | -37.69        | -13.00         | -24.69          | V        |
| 6849.60                                           | -32.91              | 12.30    | 20.13 | -40.74        | -13.00         | -27.74          | V        |
| The Worst Test Results for Channel 1450/1740.0MHz |                     |          |       |               |                |                 |          |
| Frequency(MHz)                                    | S<br>G.Lev<br>(dBm) | Ant(dBi) | Loss  | PMea<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 3480.16                                           | -33.80              | 12.90    | 12.05 | -32.95        | -13.00         | -19.95          | H        |
| 5220.13                                           | -34.01              | 12.80    | 16.27 | -37.48        | -13.00         | -24.48          | H        |
| 6960.04                                           | -33.34              | 12.30    | 20.13 | -41.17        | -13.00         | -28.17          | H        |
| 3480.16                                           | -35.46              | 12.90    | 12.05 | -34.61        | -13.00         | -21.61          | V        |
| 5220.13                                           | -34.46              | 12.80    | 16.27 | -37.93        | -13.00         | -24.93          | V        |
| 6960.04                                           | -31.88              | 12.30    | 20.13 | -39.71        | -13.00         | -26.71          | V        |
| The Worst Test Results for Channel 1513/1752.6MHz |                     |          |       |               |                |                 |          |
| Frequency(MHz)                                    | S<br>G.Lev<br>(dBm) | Ant(dBi) | Loss  | PMea<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 3505.18                                           | -33.91              | 12.90    | 12.05 | -33.06        | -13.00         | -20.06          | H        |
| 5257.72                                           | -35.07              | 12.80    | 16.27 | -38.54        | -13.00         | -25.54          | H        |
| 7010.52                                           | -32.34              | 12.30    | 20.13 | -40.17        | -13.00         | -27.17          | H        |
| 3505.18                                           | -35.17              | 12.90    | 12.05 | -34.32        | -13.00         | -21.32          | V        |
| 5257.72                                           | -34.18              | 12.80    | 16.27 | -37.65        | -13.00         | -24.65          | V        |
| 7010.52                                           | -32.97              | 12.30    | 20.13 | -40.80        | -13.00         | -27.80          | V        |



| HSDPA Band 4: (30-18000)MHz                       |                     |          |       |               |                |                 |          |
|---------------------------------------------------|---------------------|----------|-------|---------------|----------------|-----------------|----------|
| The Worst Test Results for Channel 1312/1712.4MHz |                     |          |       |               |                |                 |          |
| Frequency(MHz)                                    | S<br>G.Lev<br>(dBm) | Ant(dBi) | Loss  | PMea<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 3424.86                                           | -34.10              | 12.90    | 12.05 | -33.25        | -13.00         | -20.25          | H        |
| 5137.30                                           | -34.91              | 12.80    | 16.27 | -38.38        | -13.00         | -25.38          | H        |
| 6849.57                                           | -33.23              | 12.30    | 20.13 | -41.06        | -13.00         | -28.06          | H        |
| 3424.86                                           | -34.54              | 12.90    | 12.05 | -33.69        | -13.00         | -20.69          | V        |
| 5137.30                                           | -34.12              | 12.80    | 16.27 | -37.59        | -13.00         | -24.59          | V        |
| 6849.57                                           | -32.63              | 12.30    | 20.13 | -40.46        | -13.00         | -27.46          | V        |
| The Worst Test Results for Channel 1450/1740.0MHz |                     |          |       |               |                |                 |          |
| Frequency(MHz)                                    | S<br>G.Lev<br>(dBm) | Ant(dBi) | Loss  | PMea<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 3479.75                                           | -33.75              | 12.90    | 12.05 | -32.90        | -13.00         | -19.90          | H        |
| 5220.06                                           | -34.94              | 12.80    | 16.27 | -38.41        | -13.00         | -25.41          | H        |
| 6959.98                                           | -32.85              | 12.30    | 20.13 | -40.68        | -13.00         | -27.68          | H        |
| 3479.75                                           | -35.12              | 12.90    | 12.05 | -34.27        | -13.00         | -21.27          | V        |
| 5220.06                                           | -34.40              | 12.80    | 16.27 | -37.87        | -13.00         | -24.87          | V        |
| 6959.98                                           | -32.47              | 12.30    | 20.13 | -40.30        | -13.00         | -27.30          | V        |
| The Worst Test Results for Channel 1513/1752.6MHz |                     |          |       |               |                |                 |          |
| Frequency(MHz)                                    | S<br>G.Lev<br>(dBm) | Ant(dBi) | Loss  | PMea<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 3505.39                                           | -34.47              | 12.90    | 12.05 | -33.62        | -13.00         | -20.62          | H        |
| 5257.75                                           | -34.04              | 12.80    | 16.27 | -37.51        | -13.00         | -24.51          | H        |
| 7010.27                                           | -33.37              | 12.30    | 20.13 | -41.20        | -13.00         | -28.20          | H        |
| 3505.39                                           | -34.97              | 12.90    | 12.05 | -34.12        | -13.00         | -21.12          | V        |
| 5257.75                                           | -34.14              | 12.80    | 16.27 | -37.61        | -13.00         | -24.61          | V        |
| 7010.27                                           | -31.79              | 12.30    | 20.13 | -39.62        | -13.00         | -26.62          | V        |



| WCDMA Band 5: (30-9000)MHz                   |                     |          |       |               |                |                 |          |
|----------------------------------------------|---------------------|----------|-------|---------------|----------------|-----------------|----------|
| The worst testresults channel 4132/826.4MHz  |                     |          |       |               |                |                 |          |
| Frequency(MHz)                               | S<br>G.Lev<br>(dBm) | Ant(dBi) | Loss  | PMea<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 1652.97                                      | -40.57              | 9.40     | 4.75  | -35.92        | -13.00         | -22.92          | H        |
| 2479.46                                      | -39.45              | 10.60    | 8.39  | -37.24        | -13.00         | -24.24          | H        |
| 3305.70                                      | -31.44              | 12.00    | 11.79 | -31.23        | -13.00         | -18.23          | H        |
| 1652.97                                      | -44.29              | 9.40     | 4.75  | -39.64        | -13.00         | -26.64          | V        |
| 2479.46                                      | -44.28              | 10.60    | 8.39  | -42.07        | -13.00         | -29.07          | V        |
| 3305.70                                      | -42.56              | 12.00    | 11.79 | -42.35        | -13.00         | -29.35          | V        |
| The Worst Test Results Channel 4182/836.4MHz |                     |          |       |               |                |                 |          |
| Frequency(MHz)                               | S<br>G.Lev<br>(dBm) | Ant(dBi) | Loss  | PMea<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 1672.74                                      | -41.46              | 9.40     | 4.75  | -36.81        | -13.00         | -23.81          | H        |
| 2509.03                                      | -39.44              | 10.60    | 8.39  | -37.23        | -13.00         | -24.23          | H        |
| 3345.62                                      | -31.86              | 12.00    | 11.79 | -31.65        | -13.00         | -18.65          | H        |
| 1672.74                                      | -43.35              | 9.40     | 4.75  | -38.70        | -13.00         | -25.70          | V        |
| 2509.03                                      | -45.07              | 10.60    | 8.39  | -42.86        | -13.00         | -29.86          | V        |
| 3345.62                                      | -43.37              | 12.00    | 11.79 | -43.16        | -13.00         | -30.16          | V        |
| The Worst Test Results Channel 4233/846.6MHz |                     |          |       |               |                |                 |          |
| Frequency(MHz)                               | S<br>G.Lev<br>(dBm) | Ant(dBi) | Loss  | PMea<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 1693.49                                      | -40.22              | 9.40     | 4.75  | -35.57        | -13.00         | -22.57          | H        |
| 2539.53                                      | -40.16              | 10.60    | 8.39  | -37.95        | -13.00         | -24.95          | H        |
| 3386.43                                      | -31.75              | 12.00    | 11.79 | -31.54        | -13.00         | -18.54          | H        |
| 1693.49                                      | -44.18              | 9.40     | 4.75  | -39.53        | -13.00         | -26.53          | V        |
| 2539.53                                      | -45.24              | 10.60    | 8.39  | -43.03        | -13.00         | -30.03          | V        |
| 3386.43                                      | -42.94              | 12.00    | 11.79 | -42.73        | -13.00         | -29.73          | V        |



| HSUPA Band 5: (30-9000)MHz                   |                     |          |       |               |                |                 |          |
|----------------------------------------------|---------------------|----------|-------|---------------|----------------|-----------------|----------|
| The worst testresults channel 4132/826.4MHz  |                     |          |       |               |                |                 |          |
| Frequency(MHz)                               | S<br>G.Lev<br>(dBm) | Ant(dBi) | Loss  | PMea<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 1652.57                                      | -41.23              | 9.40     | 4.75  | -36.58        | -13.00         | -23.58          | H        |
| 2479.15                                      | -39.76              | 10.60    | 8.39  | -37.55        | -13.00         | -24.55          | H        |
| 3305.69                                      | -31.28              | 12.00    | 11.79 | -31.07        | -13.00         | -18.07          | H        |
| 1652.57                                      | -43.45              | 9.40     | 4.75  | -38.80        | -13.00         | -25.80          | V        |
| 2479.15                                      | -45.04              | 10.60    | 8.39  | -42.83        | -13.00         | -29.83          | V        |
| 3305.69                                      | -43.83              | 12.00    | 11.79 | -43.62        | -13.00         | -30.62          | V        |
| The Worst Test Results Channel 4182/836.4MHz |                     |          |       |               |                |                 |          |
| Frequency(MHz)                               | S<br>G.Lev<br>(dBm) | Ant(dBi) | Loss  | PMea<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 1672.99                                      | -40.24              | 9.40     | 4.75  | -35.59        | -13.00         | -22.59          | H        |
| 2509.15                                      | -40.15              | 10.60    | 8.39  | -37.94        | -13.00         | -24.94          | H        |
| 3345.71                                      | -31.65              | 12.00    | 11.79 | -31.44        | -13.00         | -18.44          | H        |
| 1672.99                                      | -44.34              | 9.40     | 4.75  | -39.69        | -13.00         | -26.69          | V        |
| 2509.15                                      | -44.59              | 10.60    | 8.39  | -42.38        | -13.00         | -29.38          | V        |
| 3345.71                                      | -42.84              | 12.00    | 11.79 | -42.63        | -13.00         | -29.63          | V        |
| The Worst Test Results Channel 4233/846.6MHz |                     |          |       |               |                |                 |          |
| Frequency(MHz)                               | S<br>G.Lev<br>(dBm) | Ant(dBi) | Loss  | PMea<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 1693.66                                      | -40.17              | 9.40     | 4.75  | -35.52        | -13.00         | -22.52          | H        |
| 2539.56                                      | -40.52              | 10.60    | 8.39  | -38.31        | -13.00         | -25.31          | H        |
| 3386.26                                      | -31.67              | 12.00    | 11.79 | -31.46        | -13.00         | -18.46          | H        |
| 1693.66                                      | -43.91              | 9.40     | 4.75  | -39.26        | -13.00         | -26.26          | V        |
| 2539.56                                      | -45.20              | 10.60    | 8.39  | -42.99        | -13.00         | -29.99          | V        |
| 3386.26                                      | -43.13              | 12.00    | 11.79 | -42.92        | -13.00         | -29.92          | V        |



| HSDPA Band 5: (30-9000)MHz                   |                     |          |       |               |                |                 |          |
|----------------------------------------------|---------------------|----------|-------|---------------|----------------|-----------------|----------|
| The worst testresults channel 4132/826.4MHz  |                     |          |       |               |                |                 |          |
| Frequency(MHz)                               | S<br>G.Lev<br>(dBm) | Ant(dBi) | Loss  | PMea<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 1652.71                                      | -40.73              | 9.40     | 4.75  | -36.08        | -13.00         | -23.08          | H        |
| 2479.05                                      | -39.27              | 10.60    | 8.39  | -37.06        | -13.00         | -24.06          | H        |
| 3305.58                                      | -31.89              | 12.00    | 11.79 | -31.68        | -13.00         | -18.68          | H        |
| 1652.71                                      | -43.26              | 9.40     | 4.75  | -38.61        | -13.00         | -25.61          | V        |
| 2479.05                                      | -44.41              | 10.60    | 8.39  | -42.20        | -13.00         | -29.20          | V        |
| 3305.58                                      | -42.67              | 12.00    | 11.79 | -42.46        | -13.00         | -29.46          | V        |
| The Worst Test Results Channel 4182/836.4MHz |                     |          |       |               |                |                 |          |
| Frequency(MHz)                               | S<br>G.Lev<br>(dBm) | Ant(dBi) | Loss  | PMea<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 1672.81                                      | -40.19              | 9.40     | 4.75  | -35.54        | -13.00         | -22.54          | H        |
| 2509.30                                      | -40.20              | 10.60    | 8.39  | -37.99        | -13.00         | -24.99          | H        |
| 3345.62                                      | -31.24              | 12.00    | 11.79 | -31.03        | -13.00         | -18.03          | H        |
| 1672.81                                      | -43.92              | 9.40     | 4.75  | -39.27        | -13.00         | -26.27          | V        |
| 2509.30                                      | -44.66              | 10.60    | 8.39  | -42.45        | -13.00         | -29.45          | V        |
| 3345.62                                      | -43.85              | 12.00    | 11.79 | -43.64        | -13.00         | -30.64          | V        |
| The Worst Test Results Channel 4233/846.6MHz |                     |          |       |               |                |                 |          |
| Frequency(MHz)                               | S<br>G.Lev<br>(dBm) | Ant(dBi) | Loss  | PMea<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 1693.57                                      | -40.20              | 9.40     | 4.75  | -35.55        | -13.00         | -22.55          | H        |
| 2539.96                                      | -39.66              | 10.60    | 8.39  | -37.45        | -13.00         | -24.45          | H        |
| 3386.40                                      | -31.47              | 12.00    | 11.79 | -31.26        | -13.00         | -18.26          | H        |
| 1693.57                                      | -44.38              | 9.40     | 4.75  | -39.73        | -13.00         | -26.73          | V        |
| 2539.96                                      | -45.37              | 10.60    | 8.39  | -43.16        | -13.00         | -30.16          | V        |
| 3386.40                                      | -43.70              | 12.00    | 11.79 | -43.49        | -13.00         | -30.49          | V        |



| LTE Band 2 / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest  |               |          |       |            |             |              |          |
|-------------------------------------------------------------------------------------|---------------|----------|-------|------------|-------------|--------------|----------|
| Frequency(MHz)                                                                      | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea (dBm) | Limit (dBm) | Margin (dBm) | Polarity |
| 3701.45                                                                             | -34.77        | 12.60    | 12.93 | -35.10     | -13.00      | -22.10       | H        |
| 5551.77                                                                             | -34.19        | 13.10    | 17.11 | -38.20     | -13.00      | -25.20       | H        |
| 7402.37                                                                             | -32.41        | 11.50    | 22.20 | -43.11     | -13.00      | -30.11       | H        |
| 3701.45                                                                             | -35.12        | 12.60    | 12.93 | -35.45     | -13.00      | -22.45       | V        |
| 5551.77                                                                             | -34.76        | 13.10    | 17.11 | -38.77     | -13.00      | -25.77       | V        |
| 7402.37                                                                             | -32.59        | 11.50    | 22.20 | -43.29     | -13.00      | -30.29       | V        |
| LTE Band 2 / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle  |               |          |       |            |             |              |          |
| Frequency(MHz)                                                                      | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea (dBm) | Limit (dBm) | Margin (dBm) | Polarity |
| 3760.22                                                                             | -34.17        | 12.60    | 12.93 | -34.50     | -13.00      | -21.50       | H        |
| 5639.84                                                                             | -34.96        | 13.10    | 17.11 | -38.97     | -13.00      | -25.97       | H        |
| 7520.16                                                                             | -32.57        | 11.50    | 22.20 | -43.27     | -13.00      | -30.27       | H        |
| 3760.22                                                                             | -35.22        | 12.60    | 12.93 | -35.55     | -13.00      | -22.55       | V        |
| 5639.84                                                                             | -34.91        | 13.10    | 17.11 | -38.92     | -13.00      | -25.92       | V        |
| 7520.16                                                                             | -31.80        | 11.50    | 22.20 | -42.50     | -13.00      | -29.50       | V        |
| LTE Band 2 / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest |               |          |       |            |             |              |          |
| Frequency(MHz)                                                                      | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea (dBm) | Limit (dBm) | Margin (dBm) | Polarity |
| 3818.38                                                                             | -33.86        | 12.60    | 12.93 | -34.19     | -13.00      | -21.19       | H        |
| 5727.87                                                                             | -35.09        | 13.10    | 17.11 | -39.10     | -13.00      | -26.10       | H        |
| 7636.94                                                                             | -32.88        | 11.50    | 22.20 | -43.58     | -13.00      | -30.58       | H        |
| 3818.38                                                                             | -35.34        | 12.60    | 12.93 | -35.67     | -13.00      | -22.67       | V        |
| 5727.87                                                                             | -34.22        | 13.10    | 17.11 | -38.23     | -13.00      | -25.23       | V        |
| 7636.94                                                                             | -33.11        | 11.50    | 22.20 | -43.81     | -13.00      | -30.81       | V        |



| LTE Band 2 / 3MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest  |               |          |       |        |        |        |          |
|-----------------------------------------------------------------------------------|---------------|----------|-------|--------|--------|--------|----------|
| Frequency(MHz)                                                                    | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea   | Limit  | Margin | Polarity |
|                                                                                   |               |          |       | (dBm)  | (dBm)  | (dBm)  |          |
| 3702.89                                                                           | -34.45        | 12.60    | 12.93 | -34.78 | -13.00 | -21.78 | H        |
| 5554.19                                                                           | -34.45        | 13.10    | 17.11 | -38.46 | -13.00 | -25.46 | H        |
| 7405.79                                                                           | -32.39        | 11.50    | 22.20 | -43.09 | -13.00 | -30.09 | H        |
| 3702.89                                                                           | -35.43        | 12.60    | 12.93 | -35.76 | -13.00 | -22.76 | V        |
| 5554.19                                                                           | -33.96        | 13.10    | 17.11 | -37.97 | -13.00 | -24.97 | V        |
| 7405.79                                                                           | -32.59        | 11.50    | 22.20 | -43.29 | -13.00 | -30.29 | V        |
| LTE Band 2 / 3MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle  |               |          |       |        |        |        |          |
| Frequency(MHz)                                                                    | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea   | Limit  | Margin | Polarity |
|                                                                                   |               |          |       | (dBm)  | (dBm)  | (dBm)  |          |
| 3760.08                                                                           | -34.08        | 12.60    | 12.93 | -34.41 | -13.00 | -21.41 | H        |
| 5640.10                                                                           | -34.77        | 13.10    | 17.11 | -38.78 | -13.00 | -25.78 | H        |
| 7519.81                                                                           | -32.98        | 11.50    | 22.20 | -43.68 | -13.00 | -30.68 | H        |
| 3760.08                                                                           | -34.59        | 12.60    | 12.93 | -34.92 | -13.00 | -21.92 | V        |
| 5640.10                                                                           | -35.23        | 13.10    | 17.11 | -39.24 | -13.00 | -26.24 | V        |
| 7519.81                                                                           | -32.03        | 11.50    | 22.20 | -42.73 | -13.00 | -29.73 | V        |
| LTE Band 2 / 3MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest |               |          |       |        |        |        |          |
| Frequency(MHz)                                                                    | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea   | Limit  | Margin | Polarity |
|                                                                                   |               |          |       | (dBm)  | (dBm)  | (dBm)  |          |
| 3816.95                                                                           | -33.97        | 12.60    | 12.93 | -34.30 | -13.00 | -21.30 | H        |
| 5725.66                                                                           | -34.28        | 13.10    | 17.11 | -38.29 | -13.00 | -25.29 | H        |
| 7633.98                                                                           | -33.31        | 11.50    | 22.20 | -44.01 | -13.00 | -31.01 | H        |
| 3816.95                                                                           | -34.94        | 12.60    | 12.93 | -35.27 | -13.00 | -22.27 | V        |
| 5725.66                                                                           | -34.67        | 13.10    | 17.11 | -38.68 | -13.00 | -25.68 | V        |
| 7633.98                                                                           | -31.72        | 11.50    | 22.20 | -42.42 | -13.00 | -29.42 | V        |



| LTE Band 2 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest  |               |          |       |               |                |                 |          |
|-----------------------------------------------------------------------------------|---------------|----------|-------|---------------|----------------|-----------------|----------|
| Frequency(MHz)                                                                    | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 3705.10                                                                           | -33.98        | 12.60    | 12.93 | -34.31        | -13.00         | -21.31          | H        |
| 5557.56                                                                           | -34.01        | 13.10    | 17.11 | -38.02        | -13.00         | -25.02          | H        |
| 7410.10                                                                           | -32.94        | 11.50    | 22.20 | -43.64        | -13.00         | -30.64          | H        |
| 3705.10                                                                           | -35.32        | 12.60    | 12.93 | -35.65        | -13.00         | -22.65          | V        |
| 5557.56                                                                           | -33.91        | 13.10    | 17.11 | -37.92        | -13.00         | -24.92          | V        |
| 7410.10                                                                           | -31.92        | 11.50    | 22.20 | -42.62        | -13.00         | -29.62          | V        |
| LTE Band 2 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle  |               |          |       |               |                |                 |          |
| Frequency(MHz)                                                                    | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 3760.03                                                                           | -34.21        | 12.60    | 12.93 | -34.54        | -13.00         | -21.54          | H        |
| 5640.02                                                                           | -34.65        | 13.10    | 17.11 | -38.66        | -13.00         | -25.66          | H        |
| 7520.28                                                                           | -33.21        | 11.50    | 22.20 | -43.91        | -13.00         | -30.91          | H        |
| 3760.03                                                                           | -35.92        | 12.60    | 12.93 | -36.25        | -13.00         | -23.25          | V        |
| 5640.02                                                                           | -34.57        | 13.10    | 17.11 | -38.58        | -13.00         | -25.58          | V        |
| 7520.28                                                                           | -33.11        | 11.50    | 22.20 | -43.81        | -13.00         | -30.81          | V        |
| LTE Band 2 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest |               |          |       |               |                |                 |          |
| Frequency(MHz)                                                                    | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 3815.32                                                                           | -34.28        | 12.60    | 12.93 | -34.61        | -13.00         | -21.61          | H        |
| 5722.28                                                                           | -35.37        | 13.10    | 17.11 | -39.38        | -13.00         | -26.38          | H        |
| 7630.05                                                                           | -32.29        | 11.50    | 22.20 | -42.99        | -13.00         | -29.99          | H        |
| 3815.32                                                                           | -34.53        | 12.60    | 12.93 | -34.86        | -13.00         | -21.86          | V        |
| 5722.28                                                                           | -34.39        | 13.10    | 17.11 | -38.40        | -13.00         | -25.40          | V        |
| 7630.05                                                                           | -32.91        | 11.50    | 22.20 | -43.61        | -13.00         | -30.61          | V        |



| LTE Band 2 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest  |               |          |       |            |             |              |          |
|------------------------------------------------------------------------------------|---------------|----------|-------|------------|-------------|--------------|----------|
| Frequency(MHz)                                                                     | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea (dBm) | Limit (dBm) | Margin (dBm) | Polarity |
| 3710.18                                                                            | -34.88        | 12.60    | 12.93 | -35.21     | -13.00      | -22.21       | H        |
| 5565.19                                                                            | -34.69        | 13.10    | 17.11 | -38.70     | -13.00      | -25.70       | H        |
| 7419.78                                                                            | -32.77        | 11.50    | 22.20 | -43.47     | -13.00      | -30.47       | H        |
| 3710.18                                                                            | -35.79        | 12.60    | 12.93 | -36.12     | -13.00      | -23.12       | V        |
| 5565.19                                                                            | -34.15        | 13.10    | 17.11 | -38.16     | -13.00      | -25.16       | V        |
| 7419.78                                                                            | -32.40        | 11.50    | 22.20 | -43.10     | -13.00      | -30.10       | V        |
| LTE Band 2 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle  |               |          |       |            |             |              |          |
| Frequency(MHz)                                                                     | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea (dBm) | Limit (dBm) | Margin (dBm) | Polarity |
| 3759.97                                                                            | -33.75        | 12.60    | 12.93 | -34.08     | -13.00      | -21.08       | H        |
| 5640.12                                                                            | -34.14        | 13.10    | 17.11 | -38.15     | -13.00      | -25.15       | H        |
| 7519.98                                                                            | -32.66        | 11.50    | 22.20 | -43.36     | -13.00      | -30.36       | H        |
| 3759.97                                                                            | -35.43        | 12.60    | 12.93 | -35.76     | -13.00      | -22.76       | V        |
| 5640.12                                                                            | -34.18        | 13.10    | 17.11 | -38.19     | -13.00      | -25.19       | V        |
| 7519.98                                                                            | -32.00        | 11.50    | 22.20 | -42.70     | -13.00      | -29.70       | V        |
| LTE Band 2 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest |               |          |       |            |             |              |          |
| Frequency(MHz)                                                                     | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea (dBm) | Limit (dBm) | Margin (dBm) | Polarity |
| 3810.37                                                                            | -34.39        | 12.60    | 12.93 | -34.72     | -13.00      | -21.72       | H        |
| 5714.67                                                                            | -34.58        | 13.10    | 17.11 | -38.59     | -13.00      | -25.59       | H        |
| 7620.27                                                                            | -32.69        | 11.50    | 22.20 | -43.39     | -13.00      | -30.39       | H        |
| 3810.37                                                                            | -34.78        | 12.60    | 12.93 | -35.11     | -13.00      | -22.11       | V        |
| 5714.67                                                                            | -33.88        | 13.10    | 17.11 | -37.89     | -13.00      | -24.89       | V        |
| 7620.27                                                                            | -32.59        | 11.50    | 22.20 | -43.29     | -13.00      | -30.29       | V        |



| LTE Band 2 / 15MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest  |               |          |       |               |                |                 |          |
|------------------------------------------------------------------------------------|---------------|----------|-------|---------------|----------------|-----------------|----------|
| Frequency(MHz)                                                                     | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 3715.05                                                                            | -34.35        | 12.60    | 12.93 | -34.68        | -13.00         | -21.68          | H        |
| 5572.57                                                                            | -34.27        | 13.10    | 17.11 | -38.28        | -13.00         | -25.28          | H        |
| 7430.84                                                                            | -33.54        | 11.50    | 22.20 | -44.24        | -13.00         | -31.24          | H        |
| 3715.05                                                                            | -35.34        | 12.60    | 12.93 | -35.67        | -13.00         | -22.67          | V        |
| 5572.57                                                                            | -35.10        | 13.10    | 17.11 | -39.11        | -13.00         | -26.11          | V        |
| 7430.84                                                                            | -32.77        | 11.50    | 22.20 | -43.47        | -13.00         | -30.47          | V        |
| LTE Band 2 / 15MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle  |               |          |       |               |                |                 |          |
| Frequency(MHz)                                                                     | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 3760.08                                                                            | -34.06        | 12.60    | 12.93 | -34.39        | -13.00         | -21.39          | H        |
| 5640.14                                                                            | -35.34        | 13.10    | 17.11 | -39.35        | -13.00         | -26.35          | H        |
| 7520.02                                                                            | -33.52        | 11.50    | 22.20 | -44.22        | -13.00         | -31.22          | H        |
| 3760.08                                                                            | -35.57        | 12.60    | 12.93 | -35.90        | -13.00         | -22.90          | V        |
| 5640.14                                                                            | -34.01        | 13.10    | 17.11 | -38.02        | -13.00         | -25.02          | V        |
| 7520.02                                                                            | -32.32        | 11.50    | 22.20 | -43.02        | -13.00         | -30.02          | V        |
| LTE Band 2 / 15MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest |               |          |       |               |                |                 |          |
| Frequency(MHz)                                                                     | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 3805.25                                                                            | -34.20        | 12.60    | 12.93 | -34.53        | -13.00         | -21.53          | H        |
| 5707.21                                                                            | -34.13        | 13.10    | 17.11 | -38.14        | -13.00         | -25.14          | H        |
| 7610.06                                                                            | -33.53        | 11.50    | 22.20 | -44.23        | -13.00         | -31.23          | H        |
| 3805.25                                                                            | -35.34        | 12.60    | 12.93 | -35.67        | -13.00         | -22.67          | V        |
| 5707.21                                                                            | -33.94        | 13.10    | 17.11 | -37.95        | -13.00         | -24.95          | V        |
| 7610.06                                                                            | -32.70        | 11.50    | 22.20 | -43.40        | -13.00         | -30.40          | V        |

| LTE Band 2 / 20MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest  |               |          |       |            |             |              |          |
|------------------------------------------------------------------------------------|---------------|----------|-------|------------|-------------|--------------|----------|
| Frequency(MHz)                                                                     | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea (dBm) | Limit (dBm) | Margin (dBm) | Polarity |
| 3720.05                                                                            | -33.89        | 12.60    | 12.93 | -34.22     | -13.00      | -21.22       | H        |
| 5580.34                                                                            | -34.94        | 13.10    | 17.11 | -38.95     | -13.00      | -25.95       | H        |
| 7439.80                                                                            | -33.16        | 11.50    | 22.20 | -43.86     | -13.00      | -30.86       | H        |
| 3720.05                                                                            | -34.63        | 12.60    | 12.93 | -34.96     | -13.00      | -21.96       | V        |
| 5580.34                                                                            | -33.84        | 13.10    | 17.11 | -37.85     | -13.00      | -24.85       | V        |
| 7439.80                                                                            | -32.34        | 11.50    | 22.20 | -43.04     | -13.00      | -30.04       | V        |
| LTE Band 2 / 20MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle  |               |          |       |            |             |              |          |
| Frequency(MHz)                                                                     | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea (dBm) | Limit (dBm) | Margin (dBm) | Polarity |
| 3759.81                                                                            | -34.65        | 12.60    | 12.93 | -34.98     | -13.00      | -21.98       | H        |
| 5640.23                                                                            | -35.12        | 13.10    | 17.11 | -39.13     | -13.00      | -26.13       | H        |
| 7519.81                                                                            | -32.51        | 11.50    | 22.20 | -43.21     | -13.00      | -30.21       | H        |
| 3759.81                                                                            | -34.91        | 12.60    | 12.93 | -35.24     | -13.00      | -22.24       | V        |
| 5640.23                                                                            | -34.24        | 13.10    | 17.11 | -38.25     | -13.00      | -25.25       | V        |
| 7519.81                                                                            | -32.76        | 11.50    | 22.20 | -43.46     | -13.00      | -30.46       | V        |
| LTE Band 2 / 20MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest |               |          |       |            |             |              |          |
| Frequency(MHz)                                                                     | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea (dBm) | Limit (dBm) | Margin (dBm) | Polarity |
| 3799.84                                                                            | -33.99        | 12.60    | 12.93 | -34.32     | -13.00      | -21.32       | H        |
| 5700.06                                                                            | -35.11        | 13.10    | 17.11 | -39.12     | -13.00      | -26.12       | H        |
| 7600.12                                                                            | -32.75        | 11.50    | 22.20 | -43.45     | -13.00      | -30.45       | H        |
| 3799.84                                                                            | -34.66        | 12.60    | 12.93 | -34.99     | -13.00      | -21.99       | V        |
| 5700.06                                                                            | -35.25        | 13.10    | 17.11 | -39.26     | -13.00      | -26.26       | V        |
| 7600.12                                                                            | -32.64        | 11.50    | 22.20 | -43.34     | -13.00      | -30.34       | V        |



| LTE Band 4 / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest  |               |          |       |            |             |              |          |
|-------------------------------------------------------------------------------------|---------------|----------|-------|------------|-------------|--------------|----------|
| Frequency(MHz)                                                                      | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea (dBm) | Limit (dBm) | Margin (dBm) | Polarity |
| 3421.31                                                                             | -34.29        | 12.90    | 12.56 | -33.95     | -13.00      | -20.95       | H        |
| 5131.82                                                                             | -35.23        | 13.10    | 16.32 | -38.45     | -13.00      | -25.45       | H        |
| 6842.40                                                                             | -33.50        | 12.33    | 21.13 | -42.30     | -13.00      | -29.30       | H        |
| 3421.31                                                                             | -35.04        | 12.90    | 12.56 | -34.70     | -13.00      | -21.70       | V        |
| 5131.82                                                                             | -34.25        | 13.10    | 16.32 | -37.47     | -13.00      | -24.47       | V        |
| 6842.40                                                                             | -32.88        | 12.33    | 21.13 | -41.68     | -13.00      | -28.68       | V        |
| LTE Band 4 / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle  |               |          |       |            |             |              |          |
| Frequency(MHz)                                                                      | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea (dBm) | Limit (dBm) | Margin (dBm) | Polarity |
| 3464.58                                                                             | -34.33        | 12.90    | 12.56 | -33.99     | -13.00      | -20.99       | H        |
| 5196.58                                                                             | -35.05        | 13.10    | 16.32 | -38.27     | -13.00      | -25.27       | H        |
| 6930.24                                                                             | -33.16        | 12.33    | 21.13 | -41.96     | -13.00      | -28.96       | H        |
| 3464.58                                                                             | -35.88        | 12.90    | 12.56 | -35.54     | -13.00      | -22.54       | V        |
| 5196.58                                                                             | -34.97        | 13.10    | 16.32 | -38.19     | -13.00      | -25.19       | V        |
| 6930.24                                                                             | -32.35        | 12.33    | 21.13 | -41.15     | -13.00      | -28.15       | V        |
| LTE Band 4 / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest |               |          |       |            |             |              |          |
| Frequency(MHz)                                                                      | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea (dBm) | Limit (dBm) | Margin (dBm) | Polarity |
| 3508.05                                                                             | -34.43        | 12.90    | 12.56 | -34.09     | -13.00      | -21.09       | H        |
| 5262.15                                                                             | -35.28        | 13.10    | 16.32 | -38.50     | -13.00      | -25.50       | H        |
| 7015.70                                                                             | -33.01        | 12.33    | 21.13 | -41.81     | -13.00      | -28.81       | H        |
| 3508.05                                                                             | -35.97        | 12.90    | 12.56 | -35.63     | -13.00      | -22.63       | V        |
| 5262.15                                                                             | -34.63        | 13.10    | 16.32 | -37.85     | -13.00      | -24.85       | V        |
| 7015.70                                                                             | -33.20        | 12.33    | 21.13 | -42.00     | -13.00      | -29.00       | V        |



| LTE Band 4 / 3MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest  |               |          |       |               |                |                 |          |
|-----------------------------------------------------------------------------------|---------------|----------|-------|---------------|----------------|-----------------|----------|
| Frequency(MHz)                                                                    | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 3423.82                                                                           | -34.88        | 12.90    | 12.56 | -34.54        | -13.00         | -21.54          | H        |
| 5136.14                                                                           | -34.71        | 13.10    | 16.32 | -37.93        | -13.00         | -24.93          | H        |
| 6848.54                                                                           | -32.92        | 12.33    | 21.13 | -41.72        | -13.00         | -28.72          | H        |
| 3423.82                                                                           | -35.45        | 12.90    | 12.56 | -35.11        | -13.00         | -22.11          | V        |
| 5136.14                                                                           | -33.78        | 13.10    | 16.32 | -37.00        | -13.00         | -24.00          | V        |
| 6848.54                                                                           | -32.16        | 12.33    | 21.13 | -40.96        | -13.00         | -27.96          | V        |
| LTE Band 4 / 3MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle  |               |          |       |               |                |                 |          |
| Frequency(MHz)                                                                    | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 3464.48                                                                           | -34.11        | 12.90    | 12.56 | -33.77        | -13.00         | -20.77          | H        |
| 5196.83                                                                           | -34.06        | 13.10    | 16.32 | -37.28        | -13.00         | -24.28          | H        |
| 6929.73                                                                           | -32.27        | 12.33    | 21.13 | -41.07        | -13.00         | -28.07          | H        |
| 3464.48                                                                           | -34.68        | 12.90    | 12.56 | -34.34        | -13.00         | -21.34          | V        |
| 5196.83                                                                           | -34.27        | 13.10    | 16.32 | -37.49        | -13.00         | -24.49          | V        |
| 6929.73                                                                           | -32.89        | 12.33    | 21.13 | -41.69        | -13.00         | -28.69          | V        |
| LTE Band 4 / 3MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest |               |          |       |               |                |                 |          |
| Frequency(MHz)                                                                    | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 3506.13                                                                           | -33.94        | 12.90    | 12.56 | -33.60        | -13.00         | -20.60          | H        |
| 5261.98                                                                           | -35.24        | 13.10    | 16.32 | -38.46        | -13.00         | -25.46          | H        |
| 7012.77                                                                           | -32.96        | 12.33    | 21.13 | -41.76        | -13.00         | -28.76          | H        |
| 3506.13                                                                           | -35.56        | 12.90    | 12.56 | -35.22        | -13.00         | -22.22          | V        |
| 5261.98                                                                           | -33.87        | 13.10    | 16.32 | -37.09        | -13.00         | -24.09          | V        |
| 7012.77                                                                           | -32.50        | 12.33    | 21.13 | -41.30        | -13.00         | -28.30          | V        |

| LTE Band 4 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest  |               |          |       |               |                |                 |          |
|-----------------------------------------------------------------------------------|---------------|----------|-------|---------------|----------------|-----------------|----------|
| Frequency(MHz)                                                                    | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 3424.94                                                                           | -34.47        | 12.90    | 12.56 | -34.13        | -13.00         | -21.13          | H        |
| 5137.12                                                                           | -34.71        | 13.10    | 16.32 | -37.93        | -13.00         | -24.93          | H        |
| 6849.92                                                                           | -33.49        | 12.33    | 21.13 | -42.29        | -13.00         | -29.29          | H        |
| 3424.94                                                                           | -35.50        | 12.90    | 12.56 | -35.16        | -13.00         | -22.16          | V        |
| 5137.12                                                                           | -34.56        | 13.10    | 16.32 | -37.78        | -13.00         | -24.78          | V        |
| 6849.92                                                                           | -31.81        | 12.33    | 21.13 | -40.61        | -13.00         | -27.61          | V        |
| LTE Band 4 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle  |               |          |       |               |                |                 |          |
| Frequency(MHz)                                                                    | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 3464.66                                                                           | -33.91        | 12.90    | 12.56 | -33.57        | -13.00         | -20.57          | H        |
| 5196.75                                                                           | -34.32        | 13.10    | 16.32 | -37.54        | -13.00         | -24.54          | H        |
| 6929.94                                                                           | -33.44        | 12.33    | 21.13 | -42.24        | -13.00         | -29.24          | H        |
| 3464.66                                                                           | -34.80        | 12.90    | 12.56 | -34.46        | -13.00         | -21.46          | V        |
| 5196.75                                                                           | -33.78        | 13.10    | 16.32 | -37.00        | -13.00         | -24.00          | V        |
| 6929.94                                                                           | -32.73        | 12.33    | 21.13 | -41.53        | -13.00         | -28.53          | V        |
| LTE Band 4 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest |               |          |       |               |                |                 |          |
| Frequency(MHz)                                                                    | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 3504.98                                                                           | -34.66        | 12.90    | 12.56 | -34.32        | -13.00         | -21.32          | H        |
| 5257.15                                                                           | -34.65        | 13.10    | 16.32 | -37.87        | -13.00         | -24.87          | H        |
| 7009.97                                                                           | -32.87        | 12.33    | 21.13 | -41.67        | -13.00         | -28.67          | H        |
| 3504.98                                                                           | -35.49        | 12.90    | 12.56 | -35.15        | -13.00         | -22.15          | V        |
| 5257.15                                                                           | -33.89        | 13.10    | 16.32 | -37.11        | -13.00         | -24.11          | V        |
| 7009.97                                                                           | -32.31        | 12.33    | 21.13 | -41.11        | -13.00         | -28.11          | V        |



| LTE Band 4 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest  |               |          |       |               |                |                 |          |
|------------------------------------------------------------------------------------|---------------|----------|-------|---------------|----------------|-----------------|----------|
| Frequency(MHz)                                                                     | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 3429.83                                                                            | -33.60        | 12.90    | 12.56 | -33.26        | -13.00         | -20.26          | H        |
| 5145.24                                                                            | -34.39        | 13.10    | 16.32 | -37.61        | -13.00         | -24.61          | H        |
| 6860.46                                                                            | -32.30        | 12.33    | 21.13 | -41.10        | -13.00         | -28.10          | H        |
| 3429.83                                                                            | -35.39        | 12.90    | 12.56 | -35.05        | -13.00         | -22.05          | V        |
| 5145.24                                                                            | -34.49        | 13.10    | 16.32 | -37.71        | -13.00         | -24.71          | V        |
| 6860.46                                                                            | -32.27        | 12.33    | 21.13 | -41.07        | -13.00         | -28.07          | V        |
| LTE Band 4 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle  |               |          |       |               |                |                 |          |
| Frequency(MHz)                                                                     | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 3464.48                                                                            | -33.81        | 12.90    | 12.56 | -33.47        | -13.00         | -20.47          | H        |
| 5196.67                                                                            | -35.38        | 13.10    | 16.32 | -38.60        | -13.00         | -25.60          | H        |
| 6929.60                                                                            | -32.50        | 12.33    | 21.13 | -41.30        | -13.00         | -28.30          | H        |
| 3464.48                                                                            | -35.91        | 12.90    | 12.56 | -35.57        | -13.00         | -22.57          | V        |
| 5196.67                                                                            | -33.97        | 13.10    | 16.32 | -37.19        | -13.00         | -24.19          | V        |
| 6929.60                                                                            | -33.09        | 12.33    | 21.13 | -41.89        | -13.00         | -28.89          | V        |
| LTE Band 4 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest |               |          |       |               |                |                 |          |
| Frequency(MHz)                                                                     | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 3500.25                                                                            | -34.58        | 12.90    | 12.56 | -34.24        | -13.00         | -21.24          | H        |
| 5250.39                                                                            | -34.86        | 13.10    | 16.32 | -38.08        | -13.00         | -25.08          | H        |
| 7000.03                                                                            | -32.18        | 12.33    | 21.13 | -40.98        | -13.00         | -27.98          | H        |
| 3500.25                                                                            | -35.59        | 12.90    | 12.56 | -35.25        | -13.00         | -22.25          | V        |
| 5250.39                                                                            | -34.78        | 13.10    | 16.32 | -38.00        | -13.00         | -25.00          | V        |
| 7000.03                                                                            | -32.63        | 12.33    | 21.13 | -41.43        | -13.00         | -28.43          | V        |

| LTE Band 4 / 15MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest  |               |          |       |            |             |              |          |
|------------------------------------------------------------------------------------|---------------|----------|-------|------------|-------------|--------------|----------|
| Frequency(MHz)                                                                     | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea (dBm) | Limit (dBm) | Margin (dBm) | Polarity |
| 3435.00                                                                            | -34.43        | 12.90    | 12.56 | -34.09     | -13.00      | -21.09       | H        |
| 5152.46                                                                            | -34.80        | 13.10    | 16.32 | -38.02     | -13.00      | -25.02       | H        |
| 6870.50                                                                            | -32.75        | 12.33    | 21.13 | -41.55     | -13.00      | -28.55       | H        |
| 3435.00                                                                            | -35.21        | 12.90    | 12.56 | -34.87     | -13.00      | -21.87       | V        |
| 5152.46                                                                            | -34.62        | 13.10    | 16.32 | -37.84     | -13.00      | -24.84       | V        |
| 6870.50                                                                            | -33.17        | 12.33    | 21.13 | -41.97     | -13.00      | -28.97       | V        |
| LTE Band 4 / 15MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle  |               |          |       |            |             |              |          |
| Frequency(MHz)                                                                     | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea (dBm) | Limit (dBm) | Margin (dBm) | Polarity |
| 3464.69                                                                            | -34.16        | 12.90    | 12.56 | -33.82     | -13.00      | -20.82       | H        |
| 5196.83                                                                            | -35.19        | 13.10    | 16.32 | -38.41     | -13.00      | -25.41       | H        |
| 6929.69                                                                            | -32.96        | 12.33    | 21.13 | -41.76     | -13.00      | -28.76       | H        |
| 3464.69                                                                            | -35.78        | 12.90    | 12.56 | -35.44     | -13.00      | -22.44       | V        |
| 5196.83                                                                            | -34.80        | 13.10    | 16.32 | -38.02     | -13.00      | -25.02       | V        |
| 6929.69                                                                            | -32.22        | 12.33    | 21.13 | -41.02     | -13.00      | -28.02       | V        |
| LTE Band 4 / 15MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest |               |          |       |            |             |              |          |
| Frequency(MHz)                                                                     | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea (dBm) | Limit (dBm) | Margin (dBm) | Polarity |
| 3495.57                                                                            | -34.80        | 12.90    | 12.56 | -34.46     | -13.00      | -21.46       | H        |
| 5242.16                                                                            | -34.79        | 13.10    | 16.32 | -38.01     | -13.00      | -25.01       | H        |
| 6990.32                                                                            | -33.05        | 12.33    | 21.13 | -41.85     | -13.00      | -28.85       | H        |
| 3495.57                                                                            | -35.39        | 12.90    | 12.56 | -35.05     | -13.00      | -22.05       | V        |
| 5242.16                                                                            | -34.55        | 13.10    | 16.32 | -37.77     | -13.00      | -24.77       | V        |
| 6990.32                                                                            | -32.25        | 12.33    | 21.13 | -41.05     | -13.00      | -28.05       | V        |

| LTE Band 4 / 20MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest  |               |          |       |            |             |              |          |
|------------------------------------------------------------------------------------|---------------|----------|-------|------------|-------------|--------------|----------|
| Frequency(MHz)                                                                     | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea (dBm) | Limit (dBm) | Margin (dBm) | Polarity |
| 3440.15                                                                            | -33.70        | 12.90    | 12.56 | -33.36     | -13.00      | -20.36       | H        |
| 5160.09                                                                            | -34.40        | 13.10    | 16.32 | -37.62     | -13.00      | -24.62       | H        |
| 6880.42                                                                            | -33.04        | 12.33    | 21.13 | -41.84     | -13.00      | -28.84       | H        |
| 3440.15                                                                            | -35.25        | 12.90    | 12.56 | -34.91     | -13.00      | -21.91       | V        |
| 5160.09                                                                            | -33.87        | 13.10    | 16.32 | -37.09     | -13.00      | -24.09       | V        |
| 6880.42                                                                            | -33.13        | 12.33    | 21.13 | -41.93     | -13.00      | -28.93       | V        |
| LTE Band 4 / 20MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle  |               |          |       |            |             |              |          |
| Frequency(MHz)                                                                     | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea (dBm) | Limit (dBm) | Margin (dBm) | Polarity |
| 3464.81                                                                            | -34.43        | 12.90    | 12.56 | -34.09     | -13.00      | -21.09       | H        |
| 5196.45                                                                            | -34.02        | 13.10    | 16.32 | -37.24     | -13.00      | -24.24       | H        |
| 6930.00                                                                            | -33.42        | 12.33    | 21.13 | -42.22     | -13.00      | -29.22       | H        |
| 3464.81                                                                            | -35.46        | 12.90    | 12.56 | -35.12     | -13.00      | -22.12       | V        |
| 5196.45                                                                            | -34.99        | 13.10    | 16.32 | -38.21     | -13.00      | -25.21       | V        |
| 6930.00                                                                            | -32.27        | 12.33    | 21.13 | -41.07     | -13.00      | -28.07       | V        |
| LTE Band 4 / 20MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest |               |          |       |            |             |              |          |
| Frequency(MHz)                                                                     | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea (dBm) | Limit (dBm) | Margin (dBm) | Polarity |
| 3490.23                                                                            | -34.16        | 12.90    | 12.56 | -33.82     | -13.00      | -20.82       | H        |
| 5235.34                                                                            | -34.89        | 13.10    | 16.32 | -38.11     | -13.00      | -25.11       | H        |
| 6979.65                                                                            | -32.33        | 12.33    | 21.13 | -41.13     | -13.00      | -28.13       | H        |
| 3490.23                                                                            | -35.01        | 12.90    | 12.56 | -34.67     | -13.00      | -21.67       | V        |
| 5235.34                                                                            | -34.35        | 13.10    | 16.32 | -37.57     | -13.00      | -24.57       | V        |
| 6979.65                                                                            | -32.76        | 12.33    | 21.13 | -41.56     | -13.00      | -28.56       | V        |



| LTE Band 5 / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest  |               |          |       |               |                |                 |          |
|-------------------------------------------------------------------------------------|---------------|----------|-------|---------------|----------------|-----------------|----------|
| Frequency(MHz)                                                                      | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 1648.63                                                                             | -34.53        | 9.56     | 9.72  | -34.69        | -13.00         | -21.69          | H        |
| 2473.43                                                                             | -35.06        | 10.50    | 10.86 | -35.42        | -13.00         | -22.42          | H        |
| 3298.56                                                                             | -32.70        | 12.78    | 11.57 | -31.49        | -13.00         | -18.49          | H        |
| 1648.63                                                                             | -34.81        | 9.56     | 9.72  | -34.97        | -13.00         | -21.97          | V        |
| 2473.43                                                                             | -34.29        | 10.50    | 10.86 | -34.65        | -13.00         | -21.65          | V        |
| 3298.56                                                                             | -32.70        | 12.78    | 11.57 | -31.49        | -13.00         | -18.49          | V        |
| LTE Band 5 / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle  |               |          |       |               |                |                 |          |
| Frequency(MHz)                                                                      | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 1672.44                                                                             | -34.87        | 9.56     | 9.72  | -35.03        | -13.00         | -22.03          | H        |
| 2509.13                                                                             | -34.50        | 10.50    | 10.86 | -34.86        | -13.00         | -21.86          | H        |
| 3345.61                                                                             | -33.49        | 12.78    | 11.57 | -32.28        | -13.00         | -19.28          | H        |
| 1672.44                                                                             | -34.92        | 9.56     | 9.72  | -35.08        | -13.00         | -22.08          | V        |
| 2509.13                                                                             | -34.82        | 10.50    | 10.86 | -35.18        | -13.00         | -22.18          | V        |
| 3345.61                                                                             | -32.54        | 12.78    | 11.57 | -31.33        | -13.00         | -18.33          | V        |
| LTE Band 5 / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest |               |          |       |               |                |                 |          |
| Frequency(MHz)                                                                      | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 1696.17                                                                             | -34.89        | 9.56     | 9.72  | -35.05        | -13.00         | -22.05          | H        |
| 2544.68                                                                             | -34.35        | 10.50    | 10.86 | -34.71        | -13.00         | -21.71          | H        |
| 3392.94                                                                             | -32.59        | 12.78    | 11.57 | -31.38        | -13.00         | -18.38          | H        |
| 1696.17                                                                             | -35.06        | 9.56     | 9.72  | -35.22        | -13.00         | -22.22          | V        |
| 2544.68                                                                             | -34.61        | 10.50    | 10.86 | -34.97        | -13.00         | -21.97          | V        |
| 3392.94                                                                             | -31.90        | 12.78    | 11.57 | -30.69        | -13.00         | -17.69          | V        |



| LTE Band 5 / 3MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest  |               |          |       |               |                |                 |          |
|-----------------------------------------------------------------------------------|---------------|----------|-------|---------------|----------------|-----------------|----------|
| Frequency(MHz)                                                                    | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 1650.42                                                                           | -33.81        | 9.56     | 9.72  | -33.97        | -13.00         | -20.97          | H        |
| 2476.02                                                                           | -35.00        | 10.50    | 10.86 | -35.36        | -13.00         | -22.36          | H        |
| 3301.67                                                                           | -32.15        | 12.78    | 11.57 | -30.94        | -13.00         | -17.94          | H        |
| 1650.42                                                                           | -35.61        | 9.56     | 9.72  | -35.77        | -13.00         | -22.77          | V        |
| 2476.02                                                                           | -34.18        | 10.50    | 10.86 | -34.54        | -13.00         | -21.54          | V        |
| 3301.67                                                                           | -32.25        | 12.78    | 11.57 | -31.04        | -13.00         | -18.04          | V        |
| LTE Band 5 / 3MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle  |               |          |       |               |                |                 |          |
| Frequency(MHz)                                                                    | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 1672.19                                                                           | -34.77        | 9.56     | 9.72  | -34.93        | -13.00         | -21.93          | H        |
| 2509.06                                                                           | -34.82        | 10.50    | 10.86 | -35.18        | -13.00         | -22.18          | H        |
| 3345.87                                                                           | -32.97        | 12.78    | 11.57 | -31.76        | -13.00         | -18.76          | H        |
| 1672.19                                                                           | -34.68        | 9.56     | 9.72  | -34.84        | -13.00         | -21.84          | V        |
| 2509.06                                                                           | -34.41        | 10.50    | 10.86 | -34.77        | -13.00         | -21.77          | V        |
| 3345.87                                                                           | -32.68        | 12.78    | 11.57 | -31.47        | -13.00         | -18.47          | V        |
| LTE Band 5 / 3MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest |               |          |       |               |                |                 |          |
| Frequency(MHz)                                                                    | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 1694.61                                                                           | -34.43        | 9.56     | 9.72  | -34.59        | -13.00         | -21.59          | H        |
| 2542.12                                                                           | -35.12        | 10.50    | 10.86 | -35.48        | -13.00         | -22.48          | H        |
| 3389.17                                                                           | -33.31        | 12.78    | 11.57 | -32.10        | -13.00         | -19.10          | H        |
| 1694.61                                                                           | -34.90        | 9.56     | 9.72  | -35.06        | -13.00         | -22.06          | V        |
| 2542.12                                                                           | -35.06        | 10.50    | 10.86 | -35.42        | -13.00         | -22.42          | V        |
| 3389.17                                                                           | -32.42        | 12.78    | 11.57 | -31.21        | -13.00         | -18.21          | V        |



| LTE Band 5 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest  |               |          |       |               |                |                 |          |
|-----------------------------------------------------------------------------------|---------------|----------|-------|---------------|----------------|-----------------|----------|
| Frequency(MHz)                                                                    | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 1652.61                                                                           | -33.46        | 9.56     | 9.72  | -33.62        | -13.00         | -20.62          | H        |
| 2478.69                                                                           | -34.89        | 10.50    | 10.86 | -35.25        | -13.00         | -22.25          | H        |
| 3305.63                                                                           | -33.41        | 12.78    | 11.57 | -32.20        | -13.00         | -19.20          | H        |
| 1652.61                                                                           | -34.69        | 9.56     | 9.72  | -34.85        | -13.00         | -21.85          | V        |
| 2478.69                                                                           | -34.68        | 10.50    | 10.86 | -35.04        | -13.00         | -22.04          | V        |
| 3305.63                                                                           | -31.93        | 12.78    | 11.57 | -30.72        | -13.00         | -17.72          | V        |
| LTE Band 5 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle  |               |          |       |               |                |                 |          |
| Frequency(MHz)                                                                    | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 1672.42                                                                           | -33.83        | 9.56     | 9.72  | -33.99        | -13.00         | -20.99          | H        |
| 2508.59                                                                           | -34.77        | 10.50    | 10.86 | -35.13        | -13.00         | -22.13          | H        |
| 3345.47                                                                           | -33.14        | 12.78    | 11.57 | -31.93        | -13.00         | -18.93          | H        |
| 1672.42                                                                           | -35.89        | 9.56     | 9.72  | -36.05        | -13.00         | -23.05          | V        |
| 2508.59                                                                           | -34.02        | 10.50    | 10.86 | -34.38        | -13.00         | -21.38          | V        |
| 3345.47                                                                           | -32.97        | 12.78    | 11.57 | -31.76        | -13.00         | -18.76          | V        |
| LTE Band 5 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest |               |          |       |               |                |                 |          |
| Frequency(MHz)                                                                    | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 1692.28                                                                           | -33.98        | 9.56     | 9.72  | -34.14        | -13.00         | -21.14          | H        |
| 2538.86                                                                           | -35.44        | 10.50    | 10.86 | -35.80        | -13.00         | -22.80          | H        |
| 3385.65                                                                           | -33.16        | 12.78    | 11.57 | -31.95        | -13.00         | -18.95          | H        |
| 1692.28                                                                           | -34.57        | 9.56     | 9.72  | -34.73        | -13.00         | -21.73          | V        |
| 2538.86                                                                           | -34.71        | 10.50    | 10.86 | -35.07        | -13.00         | -22.07          | V        |
| 3385.65                                                                           | -31.99        | 12.78    | 11.57 | -30.78        | -13.00         | -17.78          | V        |



| LTE Band 5 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest  |               |          |       |            |             |              |          |
|------------------------------------------------------------------------------------|---------------|----------|-------|------------|-------------|--------------|----------|
| Frequency(MHz)                                                                     | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea (dBm) | Limit (dBm) | Margin (dBm) | Polarity |
| 1657.86                                                                            | -34.75        | 9.56     | 9.72  | -34.91     | -13.00      | -21.91       | H        |
| 2486.22                                                                            | -34.86        | 10.50    | 10.86 | -35.22     | -13.00      | -22.22       | H        |
| 3315.34                                                                            | -32.85        | 12.78    | 11.57 | -31.64     | -13.00      | -18.64       | H        |
| 1657.86                                                                            | -35.14        | 9.56     | 9.72  | -35.30     | -13.00      | -22.30       | V        |
| 2486.22                                                                            | -34.34        | 10.50    | 10.86 | -34.70     | -13.00      | -21.70       | V        |
| 3315.34                                                                            | -33.21        | 12.78    | 11.57 | -32.00     | -13.00      | -19.00       | V        |
| LTE Band 5 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle  |               |          |       |            |             |              |          |
| Frequency(MHz)                                                                     | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea (dBm) | Limit (dBm) | Margin (dBm) | Polarity |
| 1672.19                                                                            | -33.86        | 9.56     | 9.72  | -34.02     | -13.00      | -21.02       | H        |
| 2508.82                                                                            | -34.64        | 10.50    | 10.86 | -35.00     | -13.00      | -22.00       | H        |
| 3345.28                                                                            | -33.57        | 12.78    | 11.57 | -32.36     | -13.00      | -19.36       | H        |
| 1672.19                                                                            | -34.64        | 9.56     | 9.72  | -34.80     | -13.00      | -21.80       | V        |
| 2508.82                                                                            | -34.79        | 10.50    | 10.86 | -35.15     | -13.00      | -22.15       | V        |
| 3345.28                                                                            | -33.09        | 12.78    | 11.57 | -31.88     | -13.00      | -18.88       | V        |
| LTE Band 5 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest |               |          |       |            |             |              |          |
| Frequency(MHz)                                                                     | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea (dBm) | Limit (dBm) | Margin (dBm) | Polarity |
| 1687.59                                                                            | -34.37        | 9.56     | 9.72  | -34.53     | -13.00      | -21.53       | H        |
| 2531.38                                                                            | -35.22        | 10.50    | 10.86 | -35.58     | -13.00      | -22.58       | H        |
| 3375.78                                                                            | -32.92        | 12.78    | 11.57 | -31.71     | -13.00      | -18.71       | H        |
| 1687.59                                                                            | -35.74        | 9.56     | 9.72  | -35.90     | -13.00      | -22.90       | V        |
| 2531.38                                                                            | -34.00        | 10.50    | 10.86 | -34.36     | -13.00      | -21.36       | V        |
| 3375.78                                                                            | -32.62        | 12.78    | 11.57 | -31.41     | -13.00      | -18.41       | V        |



| LTE Band 7 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest  |               |          |       |               |                |                 |          |
|-----------------------------------------------------------------------------------|---------------|----------|-------|---------------|----------------|-----------------|----------|
| Frequency(MHz)                                                                    | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 5005.31                                                                           | -34.15        | 12.66    | 15.86 | -37.35        | -25.00         | -12.35          | H        |
| 7507.81                                                                           | -35.45        | 11.46    | 19.28 | -43.27        | -25.00         | -18.27          | H        |
| 10010.40                                                                          | -32.25        | 12.79    | 23.19 | -42.65        | -25.00         | -17.65          | H        |
| 5005.31                                                                           | -35.29        | 12.66    | 15.86 | -38.49        | -25.00         | -13.49          | V        |
| 7507.81                                                                           | -34.10        | 11.46    | 19.28 | -41.92        | -25.00         | -16.92          | V        |
| 10010.40                                                                          | -31.97        | 12.79    | 23.19 | -42.37        | -25.00         | -17.37          | V        |
| LTE Band 7 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle  |               |          |       |               |                |                 |          |
| Frequency(MHz)                                                                    | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 5069.98                                                                           | -33.88        | 12.72    | 15.86 | -37.02        | -25.00         | -12.02          | H        |
| 7605.12                                                                           | -35.47        | 11.46    | 19.28 | -43.29        | -25.00         | -18.29          | H        |
| 10139.96                                                                          | -33.37        | 12.09    | 23.19 | -44.47        | -25.00         | -19.47          | H        |
| 5069.98                                                                           | -35.70        | 12.72    | 15.86 | -38.84        | -25.00         | -13.84          | V        |
| 7605.12                                                                           | -34.60        | 11.46    | 19.28 | -42.42        | -25.00         | -17.42          | V        |
| 10139.96                                                                          | -31.98        | 12.09    | 23.19 | -43.08        | -25.00         | -18.08          | V        |
| LTE Band 7 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest |               |          |       |               |                |                 |          |
| Frequency(MHz)                                                                    | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 5133.55                                                                           | -34.86        | 12.76    | 15.86 | -37.96        | -25.00         | -12.96          | H        |
| 7701.39                                                                           | -34.69        | 11.45    | 19.28 | -42.52        | -25.00         | -17.52          | H        |
| 10268.26                                                                          | -32.30        | 12.28    | 23.19 | -43.21        | -25.00         | -18.21          | H        |
| 5133.55                                                                           | -35.91        | 12.76    | 15.86 | -39.01        | -25.00         | -14.01          | V        |
| 7701.39                                                                           | -34.73        | 11.45    | 19.28 | -42.56        | -25.00         | -17.56          | V        |
| 10268.26                                                                          | -32.79        | 12.28    | 23.19 | -43.70        | -25.00         | -18.70          | V        |



| LTE Band 7 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest  |               |          |       |               |                |                 |          |
|------------------------------------------------------------------------------------|---------------|----------|-------|---------------|----------------|-----------------|----------|
| Frequency(MHz)                                                                     | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 5010.39                                                                            | -33.97        | 12.66    | 15.86 | -37.17        | -25.00         | -12.17          | H        |
| 7515.48                                                                            | -34.32        | 11.46    | 19.28 | -42.14        | -25.00         | -17.14          | H        |
| 10020.46                                                                           | -33.02        | 12.79    | 23.19 | -43.42        | -25.00         | -18.42          | H        |
| 5010.39                                                                            | -35.82        | 12.66    | 15.86 | -39.02        | -25.00         | -14.02          | V        |
| 7515.48                                                                            | -34.42        | 11.46    | 19.28 | -42.24        | -25.00         | -17.24          | V        |
| 10020.46                                                                           | -32.08        | 12.79    | 23.19 | -42.48        | -25.00         | -17.48          | V        |
| LTE Band 7 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle  |               |          |       |               |                |                 |          |
| Frequency(MHz)                                                                     | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 5069.91                                                                            | -34.70        | 12.72    | 15.86 | -37.84        | -25.00         | -12.84          | H        |
| 7604.92                                                                            | -34.69        | 11.46    | 19.28 | -42.51        | -25.00         | -17.51          | H        |
| 10139.61                                                                           | -32.34        | 12.09    | 23.19 | -43.44        | -25.00         | -18.44          | H        |
| 5069.91                                                                            | -34.68        | 12.72    | 15.86 | -37.82        | -25.00         | -12.82          | V        |
| 7604.92                                                                            | -34.79        | 11.46    | 19.28 | -42.61        | -25.00         | -17.61          | V        |
| 10139.61                                                                           | -32.90        | 12.09    | 23.19 | -44.00        | -25.00         | -19.00          | V        |
| LTE Band 7 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest |               |          |       |               |                |                 |          |
| Frequency(MHz)                                                                     | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 5129.24                                                                            | -34.73        | 12.76    | 15.86 | -37.83        | -25.00         | -12.83          | H        |
| 7693.94                                                                            | -34.91        | 11.45    | 19.28 | -42.74        | -25.00         | -17.74          | H        |
| 10258.78                                                                           | -33.38        | 12.28    | 23.19 | -44.29        | -25.00         | -19.29          | H        |
| 5129.24                                                                            | -35.25        | 12.76    | 15.86 | -38.35        | -25.00         | -13.35          | V        |
| 7693.94                                                                            | -34.91        | 11.45    | 19.28 | -42.74        | -25.00         | -17.74          | V        |
| 10258.78                                                                           | -33.15        | 12.28    | 23.19 | -44.06        | -25.00         | -19.06          | V        |



| LTE Band 7 / 15MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest  |               |          |       |            |             |              |          |
|------------------------------------------------------------------------------------|---------------|----------|-------|------------|-------------|--------------|----------|
| Frequency(MHz)                                                                     | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea (dBm) | Limit (dBm) | Margin (dBm) | Polarity |
| 5015.88                                                                            | -33.73        | 12.66    | 15.86 | -36.93     | -25.00      | -11.93       | H        |
| 7524.18                                                                            | -35.25        | 11.46    | 19.28 | -43.07     | -25.00      | -18.07       | H        |
| 10031.70                                                                           | -33.07        | 12.79    | 23.19 | -43.47     | -25.00      | -18.47       | H        |
| 5015.88                                                                            | -35.73        | 12.66    | 15.86 | -38.93     | -25.00      | -13.93       | V        |
| 7524.18                                                                            | -34.68        | 11.46    | 19.28 | -42.50     | -25.00      | -17.50       | V        |
| 10031.70                                                                           | -32.45        | 12.79    | 23.19 | -42.85     | -25.00      | -17.85       | V        |
| LTE Band 7 / 15MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle  |               |          |       |            |             |              |          |
| Frequency(MHz)                                                                     | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea (dBm) | Limit (dBm) | Margin (dBm) | Polarity |
| 5070.04                                                                            | -34.78        | 12.72    | 15.86 | -37.92     | -25.00      | -12.92       | H        |
| 7605.04                                                                            | -34.11        | 11.46    | 19.28 | -41.93     | -25.00      | -16.93       | H        |
| 10140.03                                                                           | -33.29        | 12.09    | 23.19 | -44.39     | -25.00      | -19.39       | H        |
| 5070.04                                                                            | -35.06        | 12.72    | 15.86 | -38.20     | -25.00      | -13.20       | V        |
| 7605.04                                                                            | -35.03        | 11.46    | 19.28 | -42.85     | -25.00      | -17.85       | V        |
| 10140.03                                                                           | -32.08        | 12.09    | 23.19 | -43.18     | -25.00      | -18.18       | V        |
| LTE Band 7 / 15MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest |               |          |       |            |             |              |          |
| Frequency(MHz)                                                                     | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea (dBm) | Limit (dBm) | Margin (dBm) | Polarity |
| 5123.42                                                                            | -34.37        | 12.76    | 15.86 | -37.47     | -25.00      | -12.47       | H        |
| 7523.91                                                                            | -34.17        | 11.45    | 19.28 | -42.00     | -25.00      | -17.00       | H        |
| 10032.10                                                                           | -32.17        | 12.28    | 23.19 | -43.08     | -25.00      | -18.08       | H        |
| 5123.42                                                                            | -34.92        | 12.76    | 15.86 | -38.02     | -25.00      | -13.02       | V        |
| 7523.91                                                                            | -35.06        | 11.45    | 19.28 | -42.89     | -25.00      | -17.89       | V        |
| 10032.10                                                                           | -32.09        | 12.28    | 23.19 | -43.00     | -25.00      | -18.00       | V        |



| LTE Band 7 / 20MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest  |               |          |       |            |             |              |          |
|------------------------------------------------------------------------------------|---------------|----------|-------|------------|-------------|--------------|----------|
| Frequency(MHz)                                                                     | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea (dBm) | Limit (dBm) | Margin (dBm) | Polarity |
| 5020.91                                                                            | -33.76        | 12.66    | 15.86 | -36.96     | -25.00      | -11.96       | H        |
| 7531.11                                                                            | -35.36        | 11.46    | 19.28 | -43.18     | -25.00      | -18.18       | H        |
| 10258.69                                                                           | -32.92        | 12.79    | 23.19 | -43.32     | -25.00      | -18.32       | H        |
| 5020.91                                                                            | -34.93        | 12.66    | 15.86 | -38.13     | -25.00      | -13.13       | V        |
| 7531.11                                                                            | -34.89        | 11.46    | 19.28 | -42.71     | -25.00      | -17.71       | V        |
| 10258.69                                                                           | -32.57        | 12.79    | 23.19 | -42.97     | -25.00      | -17.97       | V        |
| LTE Band 7 / 20MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle  |               |          |       |            |             |              |          |
| Frequency(MHz)                                                                     | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea (dBm) | Limit (dBm) | Margin (dBm) | Polarity |
| 5069.77                                                                            | -34.45        | 12.72    | 15.86 | -37.59     | -25.00      | -12.59       | H        |
| 7604.82                                                                            | -35.32        | 11.46    | 19.28 | -43.14     | -25.00      | -18.14       | H        |
| 10139.78                                                                           | -32.56        | 12.09    | 23.19 | -43.66     | -25.00      | -18.66       | H        |
| 5069.77                                                                            | -35.58        | 12.72    | 15.86 | -38.72     | -25.00      | -13.72       | V        |
| 7604.82                                                                            | -33.96        | 11.46    | 19.28 | -41.78     | -25.00      | -16.78       | V        |
| 10139.78                                                                           | -31.98        | 12.09    | 23.19 | -43.08     | -25.00      | -18.08       | V        |
| LTE Band 7 / 20MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest |               |          |       |            |             |              |          |
| Frequency(MHz)                                                                     | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea (dBm) | Limit (dBm) | Margin (dBm) | Polarity |
| 5118.72                                                                            | -33.52        | 12.76    | 15.86 | -36.62     | -25.00      | -11.62       | H        |
| 7678.42                                                                            | -35.09        | 11.45    | 19.28 | -42.92     | -25.00      | -17.92       | H        |
| 10237.78                                                                           | -33.62        | 12.28    | 23.19 | -44.53     | -25.00      | -19.53       | H        |
| 5118.72                                                                            | -35.10        | 12.76    | 15.86 | -38.20     | -25.00      | -13.20       | V        |
| 7678.42                                                                            | -35.18        | 11.45    | 19.28 | -43.01     | -25.00      | -18.01       | V        |
| 10237.78                                                                           | -32.06        | 12.28    | 23.19 | -42.97     | -25.00      | -17.97       | V        |



#### APPENDIX-PHOTOS OF TEST SETUP

Note: See test photos in setup photo document for the actual connections between Product and support equipment.

\*\*\*\*\*END OF THE REPORT\*\*\*\*\*