

# FCC SAR Test Report (Class II Permissive Change)

Product Name : Single Modular

Model No. : MC7354

Applicant : unitech Electronics Co, Ltd.

Address : 5F.,NO.136,Ln.235, Baoqiao Rd., Xindian Dist., New Taipei City  
231,Taiwan

Date of Receipt : 2016/01/25

Issued Date : 2017/07/18

Report No. : 1770193R-SAUSP13V00

Report Version : V1.0



The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standard through the calibration of the equipment and evaluated measurement uncertainty herein.

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# Test Report

Issued Date: 2017/07/18

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Product Name : Single Modular  
Applicant : unitech Electronics Co, Ltd.  
Address : 5F.,NO.136,Ln.235, Baoqiao Rd., Xindian Dist., New Taipei  
City 231,Taiwan  
Manufacturer : unitech Electronics Co, Ltd.  
Model No. : MC7354  
Trade Name : **unitech**  
FCC ID : HLEMC7354  
Applicable Standard : 47CFR § 2.1093  
KDB 447498 D01 v06  
Measurement : KDB 248227 D01 v02r02  
procedures : KDB 616217 D04 v01r02  
KDB 865664 D01 v01r04  
KDB 941225 D01 v03r01  
KDB 941225 D05 v02r05  
Test Result : Max. SAR Measurement (1g)  
**1.19** W/Kg  
Application Type : Certification

The above equipment has been tested by QuieTek-a DEKRA, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's SAR characteristics under the conditions specified in this report.

Documented By : Jinn Chen  
( Senior Adm. Specialist / Jinn Chen )

Tested By : Vorana Chen  
( Senior Engineer / Vorana Chen )

Approved By :   
( Director / Vincent Lin )

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## 1. General Information

### 1.1 EUT Description

|                                                |                                                                                                                                                                                                                                                                                                  |      |         |
|------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---------|
| Product Name                                   | Single Modular                                                                                                                                                                                                                                                                                   |      |         |
| Trade Name                                     | unitech                                                                                                                                                                                                                                                                                          |      |         |
| Model No.                                      | MC7354                                                                                                                                                                                                                                                                                           |      |         |
| FCC ID                                         | HLEMC7354                                                                                                                                                                                                                                                                                        |      |         |
| TX Frequency                                   | GSM 850/WCDMA Band 5/CDMA BC 0/LTE Band 5 : 824 ~ 849MHz<br>PCS 1900/WCDMA Band 2/CDMA BC 1/LTE Band 2 : 1850 ~ 1910MHz<br>CDMA BC 10: 816~824MHz<br>WCDMA Band 5: 1710 ~ 1755MHz<br>LTE Band 17: 704 ~716 MHz; LTE Band 13: 777~787 MHz,<br>LTE Band 26: 814~849MHz; LTE Band 25: 1850~1915 MHz |      |         |
| Type of Modulation                             | 2G: GMSK/8PSK; 3G: WCDMA/CDMA:QPSK; 4G-LTE: QPSK/16-QAM                                                                                                                                                                                                                                          |      |         |
| Antenna Type                                   | PIFA                                                                                                                                                                                                                                                                                             |      |         |
| Device Category                                | Portable                                                                                                                                                                                                                                                                                         |      |         |
| RF Exposure Environment                        | Uncontrolled                                                                                                                                                                                                                                                                                     |      |         |
| Summary of test result –Reported 1g SAR (W/Kg) |                                                                                                                                                                                                                                                                                                  |      |         |
| Test configuration                             | WWAN                                                                                                                                                                                                                                                                                             | WLAN | DSS(BT) |
| Body-Standalone                                | 1.19                                                                                                                                                                                                                                                                                             | 0.44 | 0.31    |
| Body-Simultaneous                              | 1.58                                                                                                                                                                                                                                                                                             |      |         |

\* Note: (1) This is to request a Class II permissive change for FCC ID: HLEMC7354 originally granted on 08/18/2017

The major change filed under this application is:

Change #1: Implementation in new tablet

Model number: TB160

Product name: TABLET PC

(2) The WLAN/BT SAR measurement results from the original filing can be found in SAR test report 1770193R-SAUSP01V00, FCC ID: HLETB160BTNFL, Granted date: 08/24/2017

### 1.2 Antenna List

| No. | Manufacturer | Part No.                                | Peak Gain                                                                                                                    |
|-----|--------------|-----------------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| 1   | Jiengtai     | 21-93096-04 (Main)<br>21-93087-04 (Aux) | 814~849MHz : 0.69 dBi<br>1850~1915MHz : -0.05 dBi<br>1710~1755MHz : 2 dBi<br>704~716MHz : -0.44 dBi<br>777~787MHz : 0.33 dBi |

### 1.3 SAR Test Exclusion Calculation

According to KDB Publication 447498 D01, section 4.3.1, per the calculations of item 1 (Power(mW)/separation (mm)\*sqrt(f(GHz))≤3.0), SAR is required as shown in the table below where calculated values are greater than 3.0 :

**SAR exclusion calculations for antenna < 50mm from the user:**

| Antenna     | Frequency (MHz) | Output Power |      | Separation distances (mm) |       |      |     |        | Calculated Threshold Value (≤3.0 SAR is not required) |       |       |       |        |
|-------------|-----------------|--------------|------|---------------------------|-------|------|-----|--------|-------------------------------------------------------|-------|-------|-------|--------|
|             |                 | dBm          | mW   | Back                      | Right | Left | Top | Bottom | Back                                                  | Right | Left  | Top   | Bottom |
| GSM 850     | 848.8           | 33.00        | 1995 | 5                         | 30    | 180  | 5   | 180    | 367.6                                                 | 61.3  | >50mm | 367.6 | >50mm  |
| GSM 1900    | 1909.9          | 30.00        | 1000 | 5                         | 30    | 180  | 5   | 180    | 276.4                                                 | 46.1  | >50mm | 276.4 | >50mm  |
| WCDMA 2     | 1907.6          | 24.00        | 251  | 5                         | 30    | 180  | 5   | 180    | 69.4                                                  | 11.6  | >50mm | 69.4  | >50mm  |
| WCDMA 4     | 1752.6          | 24.00        | 251  | 5                         | 30    | 180  | 5   | 180    | 66.5                                                  | 11.1  | >50mm | 66.5  | >50mm  |
| WCDMA 5     | 846.6           | 24.00        | 251  | 5                         | 30    | 180  | 5   | 180    | 46.2                                                  | 7.7   | >50mm | 46.2  | >50mm  |
| CDMA 800    | 822.75          | 24.50        | 282  | 5                         | 30    | 180  | 5   | 180    | 51.1                                                  | 8.5   | >50mm | 51.1  | >50mm  |
| CDMA 835    | 848.31          | 24.50        | 282  | 5                         | 30    | 180  | 5   | 180    | 51.9                                                  | 8.7   | >50mm | 51.9  | >50mm  |
| CDMA 1900   | 1908.75         | 24.50        | 282  | 5                         | 30    | 180  | 5   | 180    | 77.9                                                  | 13.0  | >50mm | 77.9  | >50mm  |
| LTE Band 2  | 1900            | 24.00        | 251  | 5                         | 30    | 180  | 5   | 180    | 69.2                                                  | 11.5  | >50mm | 69.2  | >50mm  |
| LTE Band 4  | 1745            | 24.00        | 251  | 5                         | 30    | 180  | 5   | 180    | 66.4                                                  | 11.1  | >50mm | 66.4  | >50mm  |
| LTE Band 5  | 844             | 24.00        | 251  | 5                         | 30    | 180  | 5   | 180    | 46.2                                                  | 7.7   | >50mm | 46.2  | >50mm  |
| LTE Band 13 | 782             | 24.00        | 251  | 5                         | 30    | 180  | 5   | 180    | 44.4                                                  | 7.4   | >50mm | 44.4  | >50mm  |
| LTE Band 17 | 711             | 24.00        | 251  | 5                         | 30    | 180  | 5   | 180    | 42.4                                                  | 7.1   | >50mm | 42.4  | >50mm  |
| LTE Band 25 | 1905            | 24.00        | 251  | 5                         | 30    | 180  | 5   | 180    | 69.3                                                  | 11.6  | >50mm | 69.3  | >50mm  |

Note: .Where separation distance is less than 3 mm, 5 mm is used for the SAR Test Exclusion Threshold calculations.

**SAR exclusion calculations for antenna > 50mm from the user:**

| Antenna     | Frequency<br>(MHz) | Output Power |      | Separation distances (mm) |       |      |     |        | Calculated Threshold Value<br>(SAR test exclusion power,mW) |       |        |       |        |
|-------------|--------------------|--------------|------|---------------------------|-------|------|-----|--------|-------------------------------------------------------------|-------|--------|-------|--------|
|             |                    | dBm          | mW   | Back                      | Right | Left | Top | Bottom | Back                                                        | Right | Left   | Top   | Bottom |
| GSM 850     | 848.8              | 33.00        | 1995 | 5                         | 30    | 180  | 5   | 180    | <50mm                                                       | <50mm | 898.4  | <50mm | 898.4  |
| GSM 1900    | 1909.9             | 30.00        | 1000 | 5                         | 30    | 180  | 5   | 180    | <50mm                                                       | <50mm | 1408.5 | <50mm | 1408.5 |
| WCDMA 2     | 1907.6             | 24.00        | 251  | 5                         | 30    | 180  | 5   | 180    | <50mm                                                       | <50mm | 1408.6 | <50mm | 1408.6 |
| WCDMA 4     | 1752.6             | 24.00        | 251  | 5                         | 30    | 180  | 5   | 180    | <50mm                                                       | <50mm | 1413.3 | <50mm | 1413.3 |
| WCDMA 5     | 846.6              | 24.00        | 251  | 5                         | 30    | 180  | 5   | 180    | <50mm                                                       | <50mm | 896.7  | <50mm | 896.7  |
| CDMA 800    | 822.75             | 24.50        | 282  | 5                         | 30    | 180  | 5   | 180    | <50mm                                                       | <50mm | 878.4  | <50mm | 878.4  |
| CDMA 835    | 848.31             | 24.50        | 282  | 5                         | 30    | 180  | 5   | 180    | <50mm                                                       | <50mm | 898.1  | <50mm | 898.1  |
| CDMA 1900   | 1908.75            | 24.50        | 282  | 5                         | 30    | 180  | 5   | 180    | <50mm                                                       | <50mm | 1408.6 | <50mm | 1408.6 |
| LTE Band 2  | 1900               | 24.00        | 251  | 5                         | 30    | 180  | 5   | 180    | <50mm                                                       | <50mm | 1408.8 | <50mm | 1408.8 |
| LTE Band 4  | 1745               | 24.00        | 251  | 5                         | 30    | 180  | 5   | 180    | <50mm                                                       | <50mm | 1413.6 | <50mm | 1413.6 |
| LTE Band 5  | 844                | 24.00        | 251  | 5                         | 30    | 180  | 5   | 180    | <50mm                                                       | <50mm | 894.7  | <50mm | 894.7  |
| LTE Band 13 | 782                | 24.00        | 251  | 5                         | 30    | 180  | 5   | 180    | <50mm                                                       | <50mm | 847.4  | <50mm | 847.4  |
| LTE Band 17 | 711                | 24.00        | 251  | 5                         | 30    | 180  | 5   | 180    | <50mm                                                       | <50mm | 794.1  | <50mm | 794.1  |
| LTE Band 25 | 1905               | 24.00        | 251  | 5                         | 30    | 180  | 5   | 180    | <50mm                                                       | <50mm | 1408.7 | <50mm | 1408.7 |

Note : .Where separation distance is less than 3 mm, 5 mm is used for the SAR Test Exclusion Threshold calculations.

## 1.4 Test Environment

Ambient conditions in the laboratory:

Test Date: Mar. 23, 2016

| Items            | Required | Actual  |
|------------------|----------|---------|
| Temperature (°C) | 18-25    | 21.9± 2 |
| Humidity (%RH)   | 30-70    | 54      |

Test Date: Mar. 24, 2016

| Items            | Required | Actual  |
|------------------|----------|---------|
| Temperature (°C) | 18-25    | 22.4± 2 |
| Humidity (%RH)   | 30-70    | 53      |

Test Date: Mar. 25, 2016

| Items            | Required | Actual  |
|------------------|----------|---------|
| Temperature (°C) | 18-25    | 21.5± 2 |
| Humidity (%RH)   | 30-70    | 52      |

Test Date: Mar. 26, 2016

| Items            | Required | Actual  |
|------------------|----------|---------|
| Temperature (°C) | 18-25    | 21.8± 2 |
| Humidity (%RH)   | 30-70    | 55      |

Site Description:

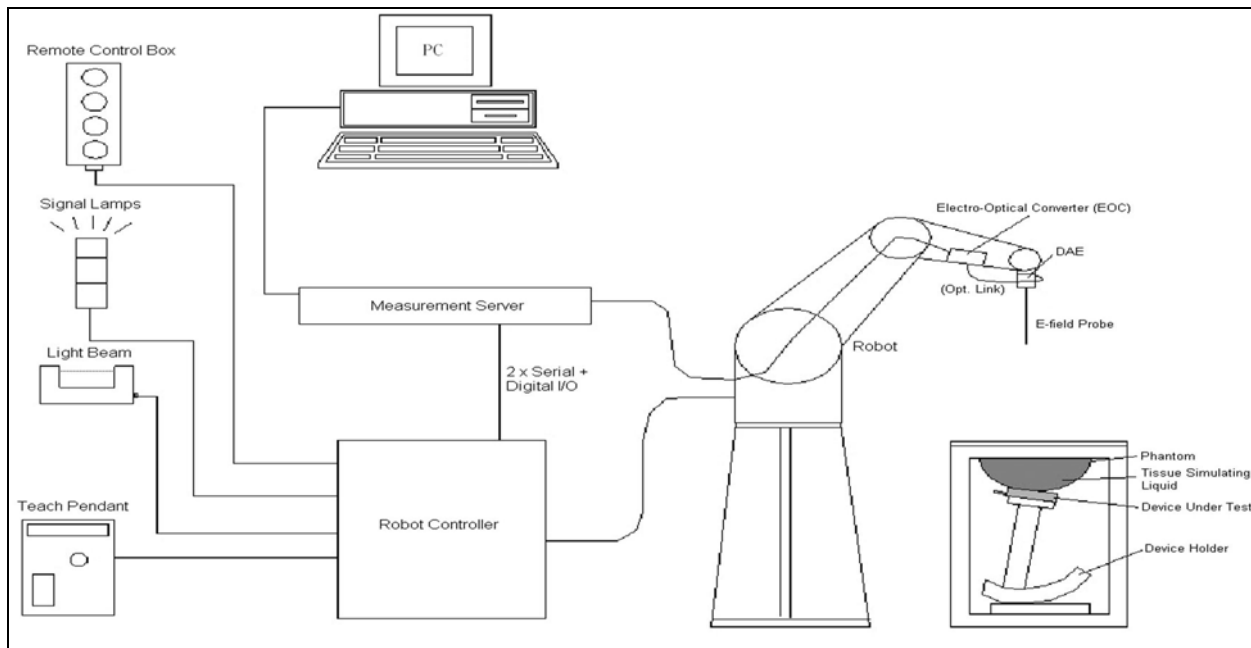
Accredited by TAF  
Accredited Number: 3023  
Effective through: December 12, 2017

Site Name: DEKRA Testing and Certification Co., Ltd

Site Address: No.5-22, Ruishukeng, Linkou Dist.,  
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E-Mail: [info.tw@dekra.com](mailto:info.tw@dekra.com)

## 2. SAR Measurement System

### 2.1 DASY5 System Description



The DASY5 system for performing compliance tests consists of the following items:

- A standard high precision 6-axis robot with controller, teach pendant and software. An arm extension for accommodating the data acquisition electronics (DAE).
- A data acquisition electronics (DAE) which performs the signal amplification, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. The unit is battery powered with standard or rechargeable batteries. The signal is optically transmitted to the EOC.
- The Electro-optical converter (EOC) performs the conversion from optical to electrical signals for the digital communication to the DAE. To use optical surface detection, a special version of the EOC is required. The EOC signal is transmitted to the measurement server.
- The Light Beam used is for probe alignment. This improves the (absolute) accuracy of the probe positioning.
- A computer running WinXP and the DASY5 software.
- Remote control and teach pendant as well as additional circuitry for robot safety such as warning lamps, etc.
- The phantom, the device holder and other accessories according to the targeted measurement.



### **2.1.1 Applications**

Predefined procedures and evaluations for automated compliance testing with all worldwide standards, e.g., IEEE 1528, OET 65, IEC 62209-1, IEC 62209-2, EN 50360, EN 50383 and others.

### **2.1.2 Area Scans**

Area scans are defined prior to the measurement process being executed with a user defined variable spacing between each measurement point (integral) allowing low uncertainty measurements to be conducted. Scans defined for FCC applications utilize a 10mm<sup>2</sup> step integral, with 1mm interpolation used to locate the peak SAR area used for zoom scan assessments.

When an Area Scan has measured all reachable points, it computes the field maxima found in the scanned area, within a range of the global maximum. The range (in dB) is specified in the standards for compliance testing. For example, a 2 dB range is required in IEEE 1528-2013, EN 50361 and IEC 62209 standards, whereby 3 dB is a requirement when compliance is assessed in accordance with the ARIB standard (Japan).

### **2.1.3 Zoom Scan (Cube Scan Averaging)**

Zoom Scans are used to assess the peak spatial SAR values within a cubic averaging volume containing 1 g and 10 g of simulated tissue. A density of 1000 kg/m<sup>3</sup> is used to represent the head and body tissue density and not the phantom liquid density, in order to be consistent with the definition of the liquid dielectric properties, i.e. the side length of the 1 g cube is 10mm, with the side length of the 10 g cube 21,5mm.

The zoom scan integer steps can be user defined so as to reduce uncertainty, but normal practice for typical test applications (including FCC) utilize a physical step of 5x5x7 (8mmx8mmx5mm) providing a volume of 32mm in the X & Y axis, and 30mm in the Z axis.

### **2.1.4 Uncertainty of Inter-/Extrapolation and Averaging**

In order to evaluate the uncertainty of the interpolation, extrapolation and averaged SAR calculation algorithms of the Postprocessor, DASY5 allows the generation of measurement grids which are artificially predefined by analytically based test functions. Therefore, the grids of area scans and zoom scans can be filled with uncertainty test data, according to the SAR benchmark functions of IEEE 1528. The three analytical functions shown in equations as below are used to describe the possible range of the expected SAR distributions for the tested handsets. The field gradients are covered by the spatially flat

distribution  $f_1$ , the spatially steep distribution  $f_3$  and  $f_2$  accounts for H-field cancellation on the phantom/tissue surface.

$$f_1(x, y, z) = Ae^{-\frac{z}{2a}} \cos^2 \left( \frac{\pi}{2} \frac{\sqrt{x'^2 + y'^2}}{5a} \right)$$

$$f_2(x, y, z) = Ae^{-\frac{z}{a}} \frac{a^2}{a^2 + x'^2} \left( 3 - e^{-\frac{2z}{a}} \right) \cos^2 \left( \frac{\pi}{2} \frac{y'}{3a} \right)$$

$$f_3(x, y, z) = A \frac{a^2}{\frac{a^2}{4} + x'^2 + y'^2} \left( e^{-\frac{2z}{a}} + \frac{a^2}{2(a + 2z)^2} \right)$$

## 2.2 DASY5 E-Field Probe

The SAR measurement is conducted with the dosimetric probe manufactured by SPEAG.

The probe is specially designed and calibrated for use in liquid with high permittivity. The dosimetric probe has special calibration in liquid at different frequency.

SPEAG conducts the probe calibration in compliance with international and national standards (e.g. IEEE 1528, EN 62209-1, IEC 62209, etc.) under ISO 17025. The calibration data are in Appendix D.

### 2.2.1 Isotropic E-Field Probe Specification

|               |                                                                                                                                                                                                            |                                                                                       |
|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Model         | Ex3DV4                                                                                                                                                                                                     |                                                                                       |
| Construction  | Symmetrical design with triangular core Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)                                                      |                                                                                       |
| Frequency     | 10 MHz to 6 GHz<br>Linearity: $\pm 0.2$ dB (30 MHz to 6 GHz)                                                                                                                                               |  |
| Directivity   | $\pm 0.3$ dB in HSL (rotation around probe axis)<br>$\pm 0.5$ dB in tissue material (rotation normal to probe axis)                                                                                        |                                                                                       |
| Dynamic Range | 10 $\mu$ W/g to 100 mW/g<br>Linearity: $\pm 0.2$ dB (noise: typically $< 1$ $\mu$ W/g)                                                                                                                     |                                                                                       |
| Dimensions    | Overall length: 330 mm (Tip: 20 mm)<br>Tip diameter: 2.5 mm (Body: 12 mm)<br>Typical distance from probe tip to dipole centers: 1 mm                                                                       |                                                                                       |
| Application   | High precision dosimetric measurements in any exposure scenario (e.g., very strong gradient fields). Only probe which enables compliance testing for frequencies up to 6 GHz with precision of better 30%. |                                                                                       |

## 2.3 Boundary Detection Unit and Probe Mounting Device

The DASY probes use a precise connector and an additional holder for the probe, consisting of a plastic tube and a flexible silicon ring to center the probe. The connector at the DAE is flexibly mounted and held in the default position with magnets and springs. Two switching systems in the connector mount detect frontal and lateral probe collisions and trigger the necessary software response.

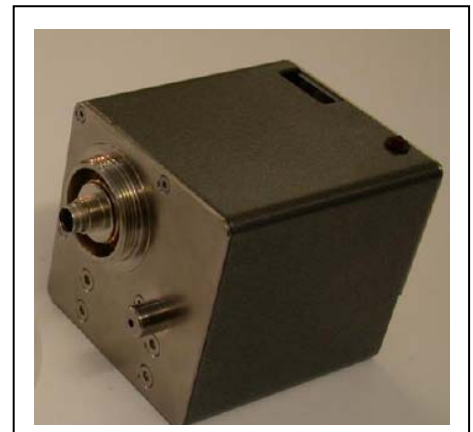


## 2.4 DATA Acquisition Electronics (DAE) and Measurement Server

The data acquisition electronics (DAE) consists of a highly sensitive electrometer-grade preamplifier with auto-zeroing, a channel and gain-switching multiplexer, a fast 16 bit AD-converter and a command decoder and control logic unit.

Transmission to the measurement server is accomplished through an optical downlink for data and status information as well as an optical uplink for commands and the clock.

The input impedance of the DAE4 is 200M Ohm; the inputs are symmetrical and floating. Common mode rejection is above 80dB.



The DASY5 measurement server is based on a PC/104 CPU board with a 400MHz intel ULV Celeron, 128MB chipdisk and 128MB RAM. The necessary circuits for communication with the DAE electronics box, as well as the 16 bit AD converter system for optical detection and digital I/O interface are contained on the DASY5 I/O board, which is directly connected to the PC/104 bus of the CPU board.



## 2.5 Robot

The DASY5 system uses the high precision robots TX90 XL type out of the newer series from Stäubli SA (France). For the 6-axis controller DASY5 system, the CS8C robot controller version from Stäubli is used.

The XL robot series have many features that are important for our application:

- High precision (repeatability 0.02 mm)
- High reliability (industrial design)
- Jerk-free straight movements
- Low ELF interference (the closed metallic construction shields against motor control fields)
- 6-axis controller



## 2.6 Light Beam Unit

The light beam switch allows automatic "tooling" of the probe. During the process, the actual position of the probe tip with respect to the robot arm is measured, as well as the probe length and the horizontal probe offset. The software then corrects all movements, such that the robot coordinates are valid for the probe tip.

The repeatability of this process is better than 0.1 mm. If a position has been taught with an aligned probe, the same position will be reached with another aligned probe within 0.1 mm, even if the other probe has different dimensions. During probe rotations, the probe tip will keep its actual position.



## 2.7 Device Holder

The DASY5 device holder is designed to cope with different positions given in the standard. It has two scales for the device rotation (with respect to the body axis) and the device inclination (with respect to the line between the ear reference points). The rotation center for both scales is the ear reference point (EPR).

Thus the device needs no repositioning when changing the angles.

The DASY5 device holder has been made out of low-loss POM material having the following dielectric parameters: relative permittivity  $\epsilon_r = 3$  and loss tangent  $\delta = 0.02$ . The amount of dielectric material has been reduced in the closest vicinity of the device, since measurements have suggested that the influence of the clamp on the test results could thus be lowered.



## 2.8 SAM Twin Phantom

The SAM twin phantom is a fiberglass shell phantom with 2mm shell thickness (except the ear region where shell thickness increases to 6mm). It has three measurement areas:

- Left head
- Right head
- Flat phantom



The bottom plate contains three pair of bolts for locking the device holder. The device holder positions are adjusted to the standard measurement positions in the three sections. A white cover is provided to tap the phantom during off-periods to prevent water evaporation and changes in the liquid parameters. On the phantom top, three reference markers are provided to identify the phantom position with respect to the robot.

### 3. Tissue Simulating Liquid

#### 3.1 The composition of the tissue simulating liquid

| INGREDIENT<br>(% Weight) | 750MHz<br>Body | 835MHz<br>Body | 1800MHz<br>Body | 1900MHz<br>Body |
|--------------------------|----------------|----------------|-----------------|-----------------|
| <b>Water</b>             | 52.4           | 52.4           | 40.5            | 40.5            |
| <b>Salt</b>              | 1.40           | 1.40           | 0.50            | 0.50            |
| <b>Sugar</b>             | 45.0           | 45.0           | 58.0            | 58.0            |
| <b>HEC</b>               | 1.00           | 1.00           | 0.50            | 0.50            |
| <b>Preventol</b>         | 0.20           | 0.20           | 0.50            | 0.50            |
| <b>DGBE</b>              | 0.00           | 0.00           | 0.00            | 0.00            |

#### 3.2 Tissue Calibration Result

The dielectric parameters of the liquids were verified prior to the SAR evaluation using APREL Dielectric Probe Kit and Agilent E5071C Vector Network Analyzer.

| Body Tissue Simulate Measurement |                                 |                         |                        |                      |
|----------------------------------|---------------------------------|-------------------------|------------------------|----------------------|
| Frequency<br>[MHz]               | Description                     | Dielectric Parameters   |                        | Tissue Temp.<br>[°C] |
|                                  |                                 | $\epsilon_r$            | $\sigma$ [s/m]         |                      |
| 750 MHz                          | Reference result<br>± 5% window | 55.53<br>52.75 to 58.21 | 0.96<br>0.912 to 1.008 | N/A                  |
|                                  | 24-Feb-16                       | 57.18                   | 0.95                   | 21.1                 |
| 711 MHz                          | Low channel                     | 57.18                   | 0.95                   | 21.1                 |
| 782 MHz                          | High channel                    | 57.56                   | 0.92                   | 21.1                 |

| Body Tissue Simulate Measurement |                                 |                        |                          |                      |
|----------------------------------|---------------------------------|------------------------|--------------------------|----------------------|
| Frequency<br>[MHz]               | Description                     | Dielectric Parameters  |                          | Tissue Temp.<br>[°C] |
|                                  |                                 | $\epsilon_r$           | $\sigma$ [s/m]           |                      |
| 835 MHz                          | Reference result<br>± 5% window | 55.2<br>52.44 to 57.96 | 0.99<br>0.9405 to 1.0395 | N/A                  |
|                                  | 23-Feb-16                       | 56.38                  | 1.02                     | 20.8                 |
| 824.2 MHz                        | Low channel                     | 56.47                  | 1.01                     | 20.8                 |
| 836.4 MHz                        | Mid channel                     | 56.36                  | 1.02                     | 20.8                 |
| 848.8 MHz                        | High channel                    | 56.26                  | 1.03                     | 20.8                 |

| Body Tissue Simulate Measurement |                                   |                          |                        |                   |
|----------------------------------|-----------------------------------|--------------------------|------------------------|-------------------|
| Frequency [MHz]                  | Description                       | Dielectric Parameters    |                        | Tissue Temp. [°C] |
|                                  |                                   | $\epsilon_r$             | $\sigma$ [s/m]         |                   |
| 1800MHz                          | Reference result $\pm 5\%$ window | 53.3<br>50.635 to 55.965 | 1.52<br>1.444 to 1.596 | N/A               |
|                                  | 25-Feb-16                         | 54.88                    | 1.54                   | 20.3              |
| 1712.4 MHz                       | Low channel                       | 55.07                    | 1.45                   | 20.3              |
| 1732.6 MHz                       | Mid channel                       | 55.04                    | 1.48                   | 20.3              |
| 1752.6 MHz                       | High channel                      | 55.01                    | 1.51                   | 20.3              |

| Body Tissue Simulate Measurement |                                   |                          |                        |                   |
|----------------------------------|-----------------------------------|--------------------------|------------------------|-------------------|
| Frequency [MHz]                  | Description                       | Dielectric Parameters    |                        | Tissue Temp. [°C] |
|                                  |                                   | $\epsilon_r$             | $\sigma$ [s/m]         |                   |
| 1900MHz                          | Reference result $\pm 5\%$ window | 53.3<br>50.635 to 55.965 | 1.52<br>1.444 to 1.596 | N/A               |
|                                  | 26-Feb-16                         | 54.47                    | 1.58                   | 20.1              |
| 1850.2 MHz                       | Low channel                       | 54.65                    | 1.53                   | 20.1              |
| 1880 MHz                         | Mid channel                       | 54.53                    | 1.56                   | 20.1              |
| 1909.8 MHz                       | High channel                      | 54.44                    | 1.59                   | 20.1              |

### 3.3 Tissue Dielectric Parameters for Head and Body Phantoms

The head tissue dielectric parameters recommended by the IEEE SCC-34/SC-2 in P1528 have been incorporated in the following table. These head parameters are derived from planar layer models simulating the highest expected SAR for the dielectric properties and tissue thickness variations in a human head. Other head and body tissue parameters that have not been specified in P1528 are derived from the tissue dielectric parameters computed from the 4-Cole-Cole equations described in Reference [12] and extrapolated according to the head parameters specified in P1528.

| Target Frequency | Head         |                | Body         |                |
|------------------|--------------|----------------|--------------|----------------|
| (MHz)            | $\epsilon_r$ | $\sigma$ (S/m) | $\epsilon_r$ | $\sigma$ (S/m) |
| 150              | 52.3         | 0.76           | 61.9         | 0.80           |
| 300              | 45.3         | 0.87           | 58.2         | 0.92           |
| 450              | 43.5         | 0.87           | 56.7         | 0.94           |
| 835              | 41.5         | 0.90           | 55.2         | 0.97           |
| 900              | 41.5         | 0.97           | 55.0         | 1.05           |
| 915              | 41.5         | 0.98           | 55.0         | 1.06           |
| 1450             | 40.5         | 1.20           | 54.0         | 1.30           |
| 1610             | 40.3         | 1.29           | 53.8         | 1.40           |
| 1800 – 2000      | 40.0         | 1.40           | 53.3         | 1.52           |
| 2450             | 39.2         | 1.80           | 52.7         | 1.95           |
| 3000             | 38.5         | 2.40           | 52.0         | 2.73           |
| 5800             | 35.3         | 5.27           | 48.2         | 6.00           |

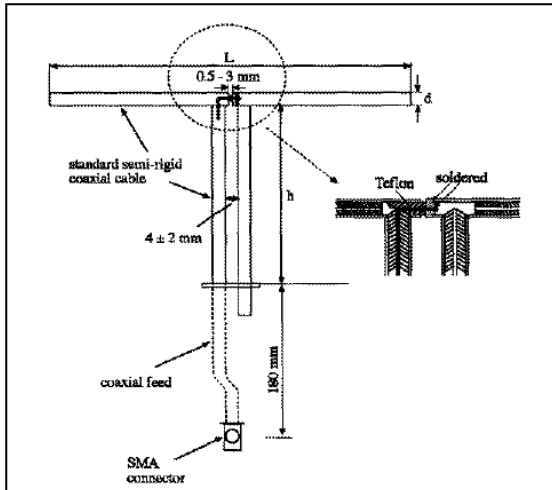
( $\epsilon_r$  = relative permittivity,  $\sigma$  = conductivity and  $\rho = 1000 \text{ kg/m}^3$ )



## 4. SAR Measurement Procedure

### 4.1 SAR System Check

#### 4.1.1 Dipoles



The dipoles used is based on the IEEE-1528 standard, and is complied with mechanical and electrical specifications in line with the requirements of both IEEE and FCC Supplement C. the table below provides details for the mechanical and electrical specifications for the dipoles.

| Frequency | L (mm) | h (mm) | d (mm) |
|-----------|--------|--------|--------|
| 750MHz    | 178.0  | 100    | 6      |
| 835MHz    | 165.0  | 90.0   | 3.6    |
| 1800MHz   | 74.0   | 41.7   | 3.6    |
| 1900MHz   | 68.0   | 39.5   | 3.6    |

#### 4.1.2 System Check Result

##### System Performance Check at 750MHz, 835MHz, 1800MHz and 1900MHz

##### Dipole Kit: D750V3

| Frequency [MHz] | Description                      | SAR [w/kg] 1g        | SAR [w/kg] 10g       | Tissue Temp. [°C] |
|-----------------|----------------------------------|----------------------|----------------------|-------------------|
| 750 MHz         | Reference result<br>± 10% window | 8.61<br>7.75 to 9.47 | 5.68<br>5.11 to 6.25 | N/A               |
|                 | 24-Feb-16                        | 8.44                 | 5.6                  | 21.1              |

##### Dipole Kit: ALS-D-835

| Frequency [MHz] | Description                      | SAR [w/kg] 1g         | SAR [w/kg] 10g       | Tissue Temp. [°C] |
|-----------------|----------------------------------|-----------------------|----------------------|-------------------|
| 835 MHz         | Reference result<br>± 10% window | 9.49<br>8.54 to 10.44 | 6.23<br>5.61 to 6.85 | N/A               |
|                 | 23-Feb-16                        | 8.96                  | 5.84                 | 20.8              |

##### Dipole Kit: ALS-D1800

| Frequency [MHz] | Description                      | SAR [w/kg] 1g           | SAR [w/kg] 10g          | Tissue Temp. [°C] |
|-----------------|----------------------------------|-------------------------|-------------------------|-------------------|
| 1800 MHz        | Reference result<br>± 10% window | 37.80<br>34.02 to 41.58 | 20.10<br>18.09 to 22.11 | N/A               |
|                 | 25-Feb-16                        | 39.36                   | 20.92                   | 20.3              |

##### Dipole Kit: ALS-D1900

| Frequency [MHz] | Description                      | SAR [w/kg] 1g         | SAR [w/kg] 10g          | Tissue Temp. [°C] |
|-----------------|----------------------------------|-----------------------|-------------------------|-------------------|
| 1900 MHz        | Reference result<br>± 10% window | 41.00<br>36.9 to 45.1 | 21.70<br>19.53 to 23.87 | N/A               |
|                 | 26-Feb-16                        | 44.4                  | 23.64                   | 20.1              |

Note: (1) The power level is used 250mW  
 (2) All SAR values are normalized to 1W forward power.  
 (3) The reference result is from Appendix E.

## 4.2 SAR Measurement Procedure

The Dasy5 calculates SAR using the following equation,

$$SAR = \frac{\sigma |E|^2}{\rho}$$

$\sigma$ : represents the simulated tissue conductivity

$\rho$ : represents the tissue density

The EUT is set to transmit at the required power in line with product specification, at each frequency relating to the LOW, MID, and HIGH channel settings.

Pre-scans are made on the device to establish the location for the transmitting antenna, using a large area scan in either air or tissue simulation fluid.

The EUT is placed against the Universal Phantom where the maximum area scan dimensions are larger than the physical size of the resonating antenna. When the scan size is not large enough to cover the peak SAR distribution, it is modified by either extending the area scan size in both the X and Y directions, or the device is shifted within the predefined area.

The area scan is then run to establish the peak SAR location (interpolated resolution set at 1mm<sup>2</sup>) which is then used to orient the center of the zoom scan. The zoom scan is then executed and the 1g and 10g averages are derived from the zoom scan volume (interpolated resolution set at 1mm<sup>3</sup>).

## 5. SAR Exposure Limits

SAR assessments have been made in line with the requirements of IEEE-1528, FCC Supplement C, and comply with ANSI/IEEE C95.1-1992 “Uncontrolled Environments” limits. These limits apply to a location which is deemed as “Uncontrolled Environment” which can be described as a situation where the general public may be exposed to an RF source with no prior knowledge or control over their exposure.

**Limits for General Population/Uncontrolled Exposure (W/kg)**

| Type Exposure                                            | Uncontrolled Environment Limit |
|----------------------------------------------------------|--------------------------------|
| Spatial Peak SAR (1g cube tissue for brain or body)      | 1.60 W/kg                      |
| Spatial Average SAR (whole body)                         | 0.08 W/kg                      |
| Spatial Peak SAR (10g for hands, feet, ankles and wrist) | 4.00 W/kg                      |

## 6. Test Equipment List

| Instrument                           | Manufacturer | Model No.    | Serial No.     | Last Calibration | Next Calibration |
|--------------------------------------|--------------|--------------|----------------|------------------|------------------|
| Stäubli Robot TX60L                  | Stäubli      | TX60L        | F09/5BL1A1/A06 | 2009/05/18       | only once        |
| Controller                           | Speag        | CS8c         | N/A            | 2009/05/18       | only once        |
| Reference Dipole 750MHz              | Speag        | D750V3       | 1031           | 2015/05/28       | 2017/05/27       |
| Reference Dipole 835Mhz              | Speag        | ALS-D-835    | QTK-315        | 2014/05/16       | 2016/05/15       |
| Reference Dipole 1800MHz             | Speag        | ALS-D1800    | 317            | 2014/05/19       | 2016/05/18       |
| Reference Dipole 1900MHz             | Speag        | ALS-D1900    | 318            | 2014/05/19       | 2016/05/18       |
| SAM Twin Phantom                     | Speag        | QD000 P40 CA | Tp 1515        | N/A              | N/A              |
| Device Holder                        | Speag        | N/A          | N/A            | N/A              | N/A              |
| Data Acquisition Electronic          | Speag        | DAE4         | 1207           | 2015/11/20       | 2016/11/19       |
| E-Field Probe                        | Speag        | EX3DV4       | 3698           | 2015/11/24       | 2016/11/23       |
| SAR Software                         | Speag        | DASY52       | V52.8 (8)      | N/A              | N/A              |
| Apriel Dipole Spaccer                | Apriel       | ALS-DS-U     | QTK-295        | N/A              | N/A              |
| Power Amplifier                      | Mini-Circuit | ZHL-42       | D051404-20     | N/A              | N/A              |
| Directional Coupler                  | Agilent      | 778D-012     | 50550          | N/A              | N/A              |
| Universal Radio Communication Tester | R&S          | CMU200       | 104846         | 2015/06/11       | 2016/06/09       |
| Universal Radio Communication Tester | Anritsu      | MT8820C      | 6201091166     | 2015/02/10       | 2017/02/08       |
| Vector Network                       | Agilent      | E5071C       | MY46108013     | 2015/12/02       | 2016/12/01       |
| Signal Generator                     | Anritsu      | MG3694A      | 041902         | 2015/08/14       | 2016/08/12       |
| Power Meter                          | Anritsu      | ML2487A      | 6K00001447     | 2015/09/17       | 2016/09/16       |
| Wide Bandwidth Sensor                | Anritsu      | MA2411B      | 1339194        | 2015/09/17       | 2016/09/16       |

## 7. Measurement Uncertainty

| <b>DASY5 Uncertainty(According to IEEE 1528-2013)</b><br><b>Measurement uncertainty for 30 MHz to 3 GHz</b> |                  |                |            |            |             |                   |                    |                          |
|-------------------------------------------------------------------------------------------------------------|------------------|----------------|------------|------------|-------------|-------------------|--------------------|--------------------------|
| Error Description                                                                                           | Uncert.<br>value | Prob.<br>Dist. | Div.       | (ci)<br>1g | (ci)<br>10g | Std. Unc.<br>(1g) | Std. Unc.<br>(10g) | (vi)<br>V <sub>eff</sub> |
| <b>Measurement System</b>                                                                                   |                  |                |            |            |             |                   |                    |                          |
| Probe Calibration                                                                                           | ±6%              | N              | 1          | 1          | 1           | ±6.0%             | ±6.0%              | ∞                        |
| Axial Isotropy                                                                                              | ±4.7%            | R              | $\sqrt{3}$ | 0.7        | 0.7         | ±1.9%             | ±1.9%              | ∞                        |
| Hemispherical Isotropy                                                                                      | ±9.6%            | R              | $\sqrt{3}$ | 0.7        | 0.7         | ±3.9%             | ±3.9%              | ∞                        |
| Boundary Effects                                                                                            | ±1.0%            | R              | $\sqrt{3}$ | 1          | 1           | ±0.6%             | ±0.6%              | ∞                        |
| Linearity                                                                                                   | ±4.7%            | R              | $\sqrt{3}$ | 1          | 1           | ±2.7%             | ±2.7%              | ∞                        |
| System Detection Limits                                                                                     | ±1.0%            | R              | $\sqrt{3}$ | 1          | 1           | ±0.6%             | ±0.6%              | ∞                        |
| Modulation Response                                                                                         | ±2.4%            | R              | $\sqrt{3}$ | 1          | 1           | ±1.4%             | ±1.4%              | ∞                        |
| Readout Electronics                                                                                         | ±0.3%            | N              | 1          | 1          | 1           | ±0.3%             | ±0.3%              | ∞                        |
| Response Time                                                                                               | ±0.8%            | R              | $\sqrt{3}$ | 1          | 1           | ±0.5%             | ±0.5%              | ∞                        |
| Integration Time                                                                                            | ±2.6%            | R              | $\sqrt{3}$ | 1          | 1           | ±1.5%             | ±1.5%              | ∞                        |
| RF Ambient Noise                                                                                            | ±3.0%            | R              | $\sqrt{3}$ | 1          | 1           | ±1.7%             | ±1.7%              | ∞                        |
| RF Ambient Reflections                                                                                      | ±3.0%            | R              | $\sqrt{3}$ | 1          | 1           | ±1.7%             | ±1.7%              | ∞                        |
| Probe Positioner                                                                                            | ±0.4%            | R              | $\sqrt{3}$ | 1          | 1           | ±0.2%             | ±0.2%              | ∞                        |
| Probe Positioning                                                                                           | ±2.9%            | R              | $\sqrt{3}$ | 1          | 1           | ±1.7%             | ±1.7%              | ∞                        |
| Max. SAR Eval.                                                                                              | ±4.0%            | R              | $\sqrt{3}$ | 1          | 1           | ±1.2%             | ±1.2%              | ∞                        |
| <b>Test Sample Related</b>                                                                                  |                  |                |            |            |             |                   |                    |                          |
| Device Positioning                                                                                          | ±2.9%            | N              | 1          | 1          | 1           | ±2.9%             | ±2.9%              | 145                      |
| Device Holder                                                                                               | ±3.6%            | N              | 1          | 1          | 1           | ±3.6%             | ±3.6%              | 5                        |
| Power Drift                                                                                                 | ±5.0%            | R              | $\sqrt{3}$ | 1          | 1           | ±2.9%             | ±2.9%              | ∞                        |
| Power Scaling                                                                                               | ±0%              | R              | $\sqrt{3}$ | 1          | 1           | ±0.0%             | ±0.0%              |                          |
| <b>Phantom and Setup</b>                                                                                    |                  |                |            |            |             |                   |                    |                          |
| Phantom Uncertainty                                                                                         | ±6.1%            | R              | $\sqrt{3}$ | 1          | 1           | ±3.5%             | ±3.5%              | ∞                        |
| SAR correction                                                                                              | ±1.9%            | R              | $\sqrt{3}$ | 1          | 0.84        | ±1.1%             | ±0.9%              | ∞                        |
| Liquid Conductivity (meas.)                                                                                 | ±2.5%            | R              | $\sqrt{3}$ | 0.78       | 0.71        | ±1.1%             | ±1.0%              | ∞                        |
| Liquid Permittivity (meas.)                                                                                 | ±2.5%            | R              | $\sqrt{3}$ | 0.26       | 0.26        | ±0.3%             | ±0.4%              | ∞                        |
| Temp. unc. - Conductivity                                                                                   | ±3.4%            | R              | $\sqrt{3}$ | 0.78       | 0.71        | ±1.5%             | ±1.4%              | ∞                        |
| Temp. unc. - Permittivity                                                                                   | ±0.4%            | R              | $\sqrt{3}$ | 0.23       | 0.26        | ±0.1%             | ±0.1%              | ∞                        |
| <b>Combined Std. Uncertainty</b>                                                                            |                  |                |            |            |             | ±11.2%            | ±11.1%             | 361                      |
| <b>Expanded STD Uncertainty</b>                                                                             |                  |                |            |            |             | ±22.3%            | ±22.2%             |                          |

| <b>DASY5 Uncertainty(According to IEEE 1528-2013)</b><br><b>Measurement uncertainty for 3GHz to 6 GHz</b> |                  |                |            |            |             |                   |                    |                          |
|-----------------------------------------------------------------------------------------------------------|------------------|----------------|------------|------------|-------------|-------------------|--------------------|--------------------------|
| Error Description                                                                                         | Uncert.<br>value | Prob.<br>Dist. | Div.       | (ci)<br>1g | (ci)<br>10g | Std. Unc.<br>(1g) | Std. Unc.<br>(10g) | (vi)<br>V <sub>eff</sub> |
| <b>Measurement System</b>                                                                                 |                  |                |            |            |             |                   |                    |                          |
| Probe Calibration                                                                                         | ±6.55%           | N              | 1          | 1          | 1           | ±6.55%            | ±6.55%             | ∞                        |
| Axial Isotropy                                                                                            | ±4.7%            | R              | $\sqrt{3}$ | 0.7        | 0.7         | ±1.9%             | ±1.9%              | ∞                        |
| Hemispherical Isotropy                                                                                    | ±9.6%            | R              | $\sqrt{3}$ | 0.7        | 0.7         | ±3.9%             | ±3.9%              | ∞                        |
| Boundary Effects                                                                                          | ±2.0%            | R              | $\sqrt{3}$ | 1          | 1           | ±1.2%             | ±1.2%              | ∞                        |
| Linearity                                                                                                 | ±4.7%            | R              | $\sqrt{3}$ | 1          | 1           | ±2.7%             | ±2.7%              | ∞                        |
| System Detection Limits                                                                                   | ±1.0%            | R              | $\sqrt{3}$ | 1          | 1           | ±0.6%             | ±0.6%              | ∞                        |
| Modulation Response                                                                                       | ±2.4%            | R              | $\sqrt{3}$ | 1          | 1           | ±1.4%             | ±1.4%              | ∞                        |
| Readout Electronics                                                                                       | ±0.3%            | N              | 1          | 1          | 1           | ±0.3%             | ±0.3%              | ∞                        |
| Response Time                                                                                             | ±0.8%            | R              | $\sqrt{3}$ | 1          | 1           | ±0.5%             | ±0.5%              | ∞                        |
| Integration Time                                                                                          | ±2.6%            | R              | $\sqrt{3}$ | 1          | 1           | ±1.5%             | ±1.5%              | ∞                        |
| RF Ambient Noise                                                                                          | ±3.0%            | R              | $\sqrt{3}$ | 1          | 1           | ±1.7%             | ±1.7%              | ∞                        |
| RF Ambient Reflections                                                                                    | ±3.0%            | R              | $\sqrt{3}$ | 1          | 1           | ±1.7%             | ±1.7%              | ∞                        |
| Probe Positioner                                                                                          | ±0.8%            | R              | $\sqrt{3}$ | 1          | 1           | ±0.5%             | ±0.5%              | ∞                        |
| Probe Positioning                                                                                         | ±6.7%            | R              | $\sqrt{3}$ | 1          | 1           | ±3.9%             | ±3.9%              | ∞                        |
| Post-processing                                                                                           | ±4.0%            | R              | $\sqrt{3}$ | 1          | 1           | ±2.3%             | ±2.3%              | ∞                        |
| <b>Test Sample Related</b>                                                                                |                  |                |            |            |             |                   |                    |                          |
| Device Positioning                                                                                        | ±2.9%            | N              | 1          | 1          | 1           | ±2.9%             | ±2.9%              | 145                      |
| Device Holder                                                                                             | ±3.6%            | N              | 1          | 1          | 1           | ±3.6%             | ±3.6%              | 5                        |
| Power Drift                                                                                               | ±5.0%            | R              | $\sqrt{3}$ | 1          | 1           | ±2.9%             | ±2.9%              | ∞                        |
| Power Scaling                                                                                             | ±0%              | R              | $\sqrt{3}$ | 1          | 1           | ±0.0%             | ±0.0%              |                          |
| <b>Phantom and Setup</b>                                                                                  |                  |                |            |            |             |                   |                    |                          |
| Phantom Uncertainty                                                                                       | ±6.6%            | R              | $\sqrt{3}$ | 1          | 1           | ±3.8%             | ±3.8%              | ∞                        |
| SAR correction                                                                                            | ±1.9%            | R              | $\sqrt{3}$ | 1          | 1           | ±1.1%             | ±0.9%              | ∞                        |
| Liquid Conductivity (meas.)                                                                               | ±2.5%            | R              | $\sqrt{3}$ | 1          | 0.84        | ±1.1%             | ±1.0%              | ∞                        |
| Liquid Permittivity (meas.)                                                                               | ±2.5%            | R              | $\sqrt{3}$ | 0.26       | 0.26        | ±0.3%             | ±0.4%              | ∞                        |
| Temp. unc. - Conductivity                                                                                 | ±3.4%            | R              | $\sqrt{3}$ | 0.78       | 0.71        | ±1.5%             | ±1.4%              | ∞                        |
| Temp. unc. - Permittivity                                                                                 | ±0.4%            | R              | $\sqrt{3}$ | 0.23       | 0.26        | ±0.1%             | ±0.1%              | ∞                        |
| <b>Combined Std. Uncertainty</b>                                                                          |                  |                |            |            |             | ±12.3%            | ±12.2%             | 748                      |
| <b>Expanded STD Uncertainty</b>                                                                           |                  |                |            |            |             | ±24.6%            | ±24.5%             |                          |

## 8. Conducted Power Measurement (Including tolerance allowed for production unit)

| Mode         |             | Sensor "ON"<br>Power<br>(Including tolerance) | Sensor "OFF " Reduce Power<br>(Including tolerance) |
|--------------|-------------|-----------------------------------------------|-----------------------------------------------------|
| GSM 850      | GPRS 1 slot | 33                                            | 33                                                  |
|              | GPRS 2 slot | 33                                            | 31.5                                                |
|              | EGPRS 1     | 28                                            | 28                                                  |
|              | EGPRS 2     | 28                                            | 28                                                  |
|              | EGPRS 3     | 28                                            | 28                                                  |
|              | EGPRS 4     | 28                                            | 28                                                  |
| GSM 1900     | GPRS 1 slot | 30                                            | 30                                                  |
|              | GPRS 2 slot | 30                                            | 29                                                  |
|              | EGPRS 1     | 27                                            | 27                                                  |
|              | EGPRS 2     | 27                                            | 27                                                  |
|              | EGPRS 3     | 27                                            | 26.5                                                |
|              | EGPRS 4     | 27                                            | 25.5                                                |
| WCDMA BAND 2 | RMC         | 24                                            | 23                                                  |
|              | HSDPA       | 24                                            | 23                                                  |
|              | HSUPA       | 24                                            | 23                                                  |
| WCDMA BAND 4 | RMC         | 24                                            | 23                                                  |
|              | HSDPA       | 24                                            | 23                                                  |
|              | HSUPA       | 24                                            | 23                                                  |
| WCDMA BAND 5 | RMC         | 24                                            | 24                                                  |
|              | HSDPA       | 24                                            | 24                                                  |
|              | HSUPA       | 24                                            | 24                                                  |
| LTE Band 2   | QPSK        | 24                                            | 23                                                  |
| LTE Band 4   | QPSK        | 24                                            | 23                                                  |
| LTE Band 5   | QPSK        | 24                                            | 24                                                  |
| LTE Band 13  | QPSK        | 24                                            | 24                                                  |
| LTE Band 17  | QPSK        | 24                                            | 24                                                  |
| LTE Band 25  | QPSK        | 24                                            | 23                                                  |
| CDMA BC0     | QPSK        | 24.5                                          | 24.5                                                |
| CDMA BC1     | QPSK        | 24.5                                          | 23.5                                                |
| CDMA BC10    | QPSK        | 24.5                                          | 24.5                                                |
| 1EVDO BC0    | QPSK        | 24.5                                          | 24.5                                                |
| 1EVDO BC1    | QPSK        | 24.5                                          | 23.5                                                |
| 1EVDO BC10   | QPSK        | 24.5                                          | 24.5                                                |



| GSM/PCS                                                                                                     |        |       |        |            |               |              |       |
|-------------------------------------------------------------------------------------------------------------|--------|-------|--------|------------|---------------|--------------|-------|
| CHANNEL                                                                                                     | 128    | 189   | 251    | Duty cycle | Frame Average |              |       |
| Frequency                                                                                                   | 824.2  | 836.4 | 848.8  |            | (dBm)         |              |       |
| Maximum Power (Sensor Off)                                                                                  |        |       |        |            |               |              |       |
| GPRS 850 (1 Slot)                                                                                           | 31.87  | 31.96 | 31.98  | 0.125      | 22.84         | 22.93        | 22.95 |
| GPRS 850 (2 Slot)                                                                                           | 31.82  | 31.86 | 31.84  | 0.250      | 25.8          | <b>25.84</b> | 25.82 |
| Reduce Power (Sensor ON)                                                                                    |        |       |        |            |               |              |       |
| GPRS 850 (2 Slot)                                                                                           | 29.52  | 29.52 | 29.82  | 0.250      | 23.5          | <b>23.5</b>  | 23.8  |
| Maximum Power (Sensor On=Off)                                                                               |        |       |        |            |               |              |       |
| EGPRS 850 (1 Slot)                                                                                          | 25.91  | 25.89 | 25.94  | 0.125      | 16.88         | 16.86        | 16.91 |
| EGPRS 850 (2 Slot)                                                                                          | 25.78  | 25.81 | 25.85  | 0.250      | 19.76         | 19.79        | 19.83 |
| EGPRS 850 (3 Slot)                                                                                          | 25.70  | 25.70 | 25.73  | 0.375      | 21.45         | 21.45        | 21.48 |
| EGPRS 850 (4 Slot)                                                                                          | 25.55  | 25.52 | 25.47  | 0.500      | 22.54         | 22.51        | 22.46 |
| CHANNEL                                                                                                     | 512    | 661   | 810    | Duty cycle | Frame Average |              |       |
| Frequency                                                                                                   | 1850.2 | 1880  | 1909.8 |            | (dBm)         |              |       |
| Maximum Power (Sensor Off)                                                                                  |        |       |        |            |               |              |       |
| GPRS 1900 (1 Slot)                                                                                          | 29.35  | 29.31 | 29.51  | 0.125      | 20.32         | 20.28        | 20.48 |
| GPRS 1900 (2 Slot)                                                                                          | 29.35  | 29.29 | 29.43  | 0.250      | 23.33         | <b>23.27</b> | 23.41 |
| Reduce Power (Sensor ON)                                                                                    |        |       |        |            |               |              |       |
| GPRS 1900 (2 Slot)                                                                                          | 27.56  | 27.75 | 27.53  | 0.250      | 21.54         | <b>21.73</b> | 21.51 |
| Maximum Power (Sensor Off)                                                                                  |        |       |        |            |               |              |       |
| EGPRS 1900 (1 Slot)                                                                                         | 24.71  | 24.88 | 25.08  | 0.125      | 15.68         | 15.85        | 16.05 |
| EGPRS 1900 (2 Slot)                                                                                         | 24.65  | 24.83 | 24.95  | 0.250      | 18.63         | 18.81        | 18.93 |
| EGPRS 1900 (3 Slot)                                                                                         | 24.47  | 24.64 | 24.81  | 0.375      | 20.22         | 20.39        | 20.56 |
| EGPRS 1900 (4 Slot)                                                                                         | 24.39  | 24.54 | 24.72  | 0.500      | 21.38         | 21.53        | 21.71 |
| Reduce Power (Sensor ON)                                                                                    |        |       |        |            |               |              |       |
| EGPRS 1900 (3 Slot)                                                                                         | 24.05  | 24.11 | 24.26  | 0.375      | 19.8          | 19.86        | 20.01 |
| EGPRS 1900 (4 Slot)                                                                                         | 23.98  | 24.03 | 24.09  | 0.500      | 20.97         | 21.02        | 21.08 |
| Note: When sensor “ON”, only GPRS 850(2 Slot)/GPRS 1900(2Slot) are reduce the power, other remain the same. |        |       |        |            |               |              |       |

| Band                                                                                                      | WCDMA Band II |       |              | WCDMA Band IV |       |              | WCDMA Band V |              |       |
|-----------------------------------------------------------------------------------------------------------|---------------|-------|--------------|---------------|-------|--------------|--------------|--------------|-------|
| CHANNEL                                                                                                   | 9262          | 9400  | 9538         | 1312          | 1413  | 1513         | 4132         | 4183         | 4233  |
| Maximum Power (Sensor Off)                                                                                |               |       |              |               |       |              |              |              |       |
| RMC                                                                                                       | 23.43         | 23.33 | <b>23.52</b> | <b>23.55</b>  | 22.9  | 23.02        | 22.92        | <b>23.11</b> | 23.04 |
| HSDPA Set 1                                                                                               | 22.51         | 22.53 | 23.1         | 22.98         | 22.58 | 22.9         | 22.14        | 22.33        | 22.25 |
| HSDPA Set 2                                                                                               | 22.27         | 22.23 | 22.66        | 22.89         | 23.05 | 23.27        | 21.63        | 21.67        | 21.83 |
| HSDPA Set 3                                                                                               | 22.26         | 22.39 | 22.75        | 22.83         | 23.11 | 22.98        | 21.74        | 21.85        | 21.92 |
| HSDPA Set 4                                                                                               | 22.28         | 22.39 | 22.38        | 22.88         | 23.2  | 22.92        | 21.5         | 21.73        | 21.72 |
| HSUPA Set 1                                                                                               | 22.28         | 22.03 | 21.9         | 21.65         | 22.21 | 21.58        | 21.91        | 21.5         | 21.69 |
| HSUPA Set 2                                                                                               | 20.84         | 20.75 | 20.86        | 21.01         | 20.51 | 21.02        | 20.26        | 19.91        | 20.15 |
| HSUPA Set 3                                                                                               | 21.24         | 20.82 | 21.11        | 20.9          | 20.55 | 20.82        | 20.71        | 20.69        | 20.5  |
| HSUPA Set 4                                                                                               | 21.16         | 20.9  | 21.41        | 20.71         | 21.24 | 20.56        | 20.32        | 20.81        | 20.21 |
| HSUPA Set 5                                                                                               | 22.29         | 22.32 | 22.38        | 22.55         | 22.32 | 22.43        | 21.91        | 21.98        | 21.8  |
| Reduce Power (Sensor ON)                                                                                  |               |       |              |               |       |              |              |              |       |
| RMC                                                                                                       | 21.22         | 21.43 | <b>21.52</b> | 21.5          | 21.47 | <b>21.51</b> | N/A          | N/A          | N/A   |
| HSDPA Set 1                                                                                               | 20.82         | 20.96 | 21.17        | 21.04         | 21.1  | 21.27        | N/A          | N/A          | N/A   |
| HSDPA Set 2                                                                                               | 20.59         | 20.76 | 20.96        | 20.95         | 21.42 | 21.44        | N/A          | N/A          | N/A   |
| HSDPA Set 3                                                                                               | 20.57         | 20.59 | 20.85        | 21.08         | 21.42 | 21.43        | N/A          | N/A          | N/A   |
| HSDPA Set 4                                                                                               | 20.39         | 20.56 | 20.8         | 20.92         | 21.41 | 21.49        | N/A          | N/A          | N/A   |
| HSUPA Set 1                                                                                               | 20.26         | 20.02 | 20.47        | 21.06         | 20.46 | 19.89        | N/A          | N/A          | N/A   |
| HSUPA Set 2                                                                                               | 19.1          | 19.26 | 19.52        | 19.69         | 19.34 | 19.3         | N/A          | N/A          | N/A   |
| HSUPA Set 3                                                                                               | 19.35         | 19.86 | 19.75        | 20.04         | 19.85 | 19.95        | N/A          | N/A          | N/A   |
| HSUPA Set 4                                                                                               | 19.57         | 19.87 | 20.8         | 19.93         | 20.3  | 20.19        | N/A          | N/A          | N/A   |
| HSUPA Set 5                                                                                               | 20.48         | 20.81 | 20.66        | 20.69         | 20.22 | 21.09        | N/A          | N/A          | N/A   |
| Note: When sensor "ON", only WCDMA Band II and WCDMA Band IV are reduce the power, other remain the same. |               |       |              |               |       |              |              |              |       |

| Band                               |                     | BC0   |       |       | BC1   |       |       | BC10  |       |       |
|------------------------------------|---------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| FWD                                | REV                 | 1013  | 384   | 777   | 25    | 600   | 1175  | 467   | 580   | 670   |
| Maximum Power (Sensor Off)         |                     |       |       |       |       |       |       |       |       |       |
| CDMA                               |                     |       |       |       |       |       |       |       |       |       |
| RC1                                | SO2                 | 23.78 | 23.84 | 23.56 | 24.12 | 23.63 | 23.88 | 23.72 | 23.56 | 23.60 |
| RC1                                | SO55                | 23.77 | 23.82 | 23.72 | 24.04 | 23.73 | 24.03 | 23.70 | 23.55 | 23.61 |
| RC2                                | SO9                 | 23.79 | 23.81 | 23.80 | 24.08 | 24.06 | 24.01 | 23.65 | 23.46 | 23.68 |
| RC2                                | SO55                | 23.77 | 23.83 | 23.81 | 23.97 | 24.09 | 24.03 | 23.64 | 23.62 | 24.66 |
| RC3                                | SO55                | 23.73 | 23.84 | 23.77 | 24.04 | 24.01 | 23.93 | 23.63 | 23.57 | 23.54 |
| RC3                                | SO32                | 23.72 | 23.77 | 23.78 | 23.98 | 23.87 | 23.93 | 23.62 | 23.68 | 23.57 |
| 1xEVDO Rel 0                       |                     |       |       |       |       |       |       |       |       |       |
| <b>FTAP rate=307kbps (2 slot)</b>  | Rtap rate=9.6kbps   | 23.80 | 23.87 | 23.54 | 24.06 | 23.63 | 23.81 | 23.73 | 23.54 | 23.62 |
|                                    | Rtap rate=19.2kbps  | 23.54 | 23.58 | 23.34 | 23.82 | 23.82 | 24.01 | 23.61 | 23.67 | 23.64 |
|                                    | Rtap rate=38.4kbps  | 23.59 | 23.47 | 23.45 | 23.67 | 23.64 | 23.77 | 23.43 | 23.59 | 23.57 |
|                                    | Rtap rate=76.8kbps  | 23.61 | 23.46 | 23.62 | 23.92 | 23.64 | 23.84 | 23.62 | 23.46 | 23.53 |
|                                    | Rtap rate=153.6kbps | 23.75 | 23.52 | 23.46 | 23.64 | 23.70 | 23.86 | 23.68 | 23.39 | 23.41 |
| 1xEVDO Rev A                       |                     |       |       |       |       |       |       |       |       |       |
| <b>FETAP rate=307kbps (2 slot)</b> | RETAP size=128      | 23.41 | 23.63 | 23.46 | 23.95 | 23.81 | 24.00 | 23.49 | 23.35 | 23.28 |
|                                    | RETAP size=256      | 23.39 | 23.43 | 23.36 | 23.64 | 23.77 | 23.76 | 23.56 | 23.61 | 23.26 |
|                                    | RETAP size=512      | 23.55 | 23.22 | 23.54 | 23.67 | 23.59 | 23.60 | 23.46 | 23.57 | 23.47 |
|                                    | RETAP size=768      | 23.47 | 23.34 | 23.27 | 23.75 | 23.76 | 23.81 | 23.37 | 23.59 | 23.43 |
|                                    | RETAP size=1024     | 23.41 | 23.36 | 23.29 | 23.80 | 23.55 | 23.69 | 23.35 | 23.49 | 23.53 |
|                                    | RETAP size=1536     | 23.62 | 23.19 | 23.31 | 23.91 | 23.46 | 23.22 | 23.41 | 23.43 | 23.58 |
|                                    | RETAP size=2048     | 23.34 | 23.37 | 23.31 | 23.99 | 23.73 | 23.24 | 23.61 | 23.37 | 23.27 |
|                                    | RETAP size=3072     | 23.61 | 23.35 | 23.2  | 24.04 | 23.92 | 23.41 | 23.55 | 23.18 | 23.21 |
|                                    | RETAP size=4096     | 23.54 | 23.42 | 23.51 | 23.97 | 23.48 | 23.55 | 23.38 | 23.14 | 23.09 |
|                                    | RETAP size=6144     | 23.35 | 23.38 | 23.53 | 23.55 | 23.71 | 23.62 | 23.21 | 23.10 | 23.11 |
|                                    | RETAP size=8192     | 23.43 | 23.18 | 23.27 | 23.47 | 23.39 | 23.15 | 23.18 | 23.32 | 23.08 |
|                                    | RETAP size=12288    | 23.4  | 23.17 | 23.48 | 23.45 | 23.31 | 23.37 | 23.40 | 23.33 | 23.13 |

| Band                                                                         |                     | BC0  |     |     | BC1   |       |       | BC10 |     |     |
|------------------------------------------------------------------------------|---------------------|------|-----|-----|-------|-------|-------|------|-----|-----|
| FWD                                                                          | REV                 | 1013 | 384 | 777 | 25    | 600   | 1175  | 467  | 580 | 670 |
| Reduce Power (Sensor ON)                                                     |                     |      |     |     |       |       |       |      |     |     |
| CDMA                                                                         |                     |      |     |     |       |       |       |      |     |     |
| RC1                                                                          | SO2                 | N/A  | N/A | N/A | 22.14 | 22.28 | 22.25 | N/A  | N/A | N/A |
| RC1                                                                          | SO55                | N/A  | N/A | N/A | 22.13 | 22.22 | 22.24 | N/A  | N/A | N/A |
| RC2                                                                          | SO9                 | N/A  | N/A | N/A | 22.13 | 22.24 | 22.19 | N/A  | N/A | N/A |
| RC2                                                                          | SO55                | N/A  | N/A | N/A | 22.13 | 22.15 | 22.26 | N/A  | N/A | N/A |
| RC3                                                                          | SO55                | N/A  | N/A | N/A | 22.05 | 22.23 | 22.20 | N/A  | N/A | N/A |
| RC3                                                                          | SO32                | N/A  | N/A | N/A | 22.10 | 22.21 | 22.25 | N/A  | N/A | N/A |
| 1xEVDO Rel 0                                                                 |                     |      |     |     |       |       |       |      |     |     |
| <b>FTAP rate=307kbps (2 slot)</b>                                            | Rtap rate=9.6kbps   | N/A  | N/A | N/A | 22.12 | 22.24 | 22.23 | N/A  | N/A | N/A |
|                                                                              | Rtap rate=19.2kbps  | N/A  | N/A | N/A | 21.94 | 22.16 | 22.11 | N/A  | N/A | N/A |
|                                                                              | Rtap rate=38.4kbps  | N/A  | N/A | N/A | 22.15 | 22.19 | 22.09 | N/A  | N/A | N/A |
|                                                                              | Rtap rate=76.8kbps  | N/A  | N/A | N/A | 21.95 | 22.07 | 22.01 | N/A  | N/A | N/A |
|                                                                              | Rtap rate=153.6kbps | N/A  | N/A | N/A | 22.07 | 21.98 | 21.88 | N/A  | N/A | N/A |
| 1xEVDO Rev A                                                                 |                     |      |     |     |       |       |       |      |     |     |
| <b>FETAP rate=307kbps (2 slot)</b>                                           | RETAP size=128      | N/A  | N/A | N/A | 22.11 | 22.03 | 22.15 | N/A  | N/A | N/A |
|                                                                              | RETAP size=256      | N/A  | N/A | N/A | 22.13 | 22.12 | 21.98 | N/A  | N/A | N/A |
|                                                                              | RETAP size=512      | N/A  | N/A | N/A | 21.91 | 22.24 | 21.67 | N/A  | N/A | N/A |
|                                                                              | RETAP size=768      | N/A  | N/A | N/A | 22.20 | 22.19 | 21.76 | N/A  | N/A | N/A |
|                                                                              | RETAP size=1024     | N/A  | N/A | N/A | 22.17 | 22.08 | 21.55 | N/A  | N/A | N/A |
|                                                                              | RETAP size=1536     | N/A  | N/A | N/A | 21.99 | 21.92 | 21.46 | N/A  | N/A | N/A |
|                                                                              | RETAP size=2048     | N/A  | N/A | N/A | 22.06 | 21.64 | 22.01 | N/A  | N/A | N/A |
|                                                                              | RETAP size=3072     | N/A  | N/A | N/A | 22.03 | 21.72 | 21.59 | N/A  | N/A | N/A |
|                                                                              | RETAP size=4096     | N/A  | N/A | N/A | 21.98 | 22.03 | 21.77 | N/A  | N/A | N/A |
|                                                                              | RETAP size=6144     | N/A  | N/A | N/A | 22.14 | 21.92 | 22.02 | N/A  | N/A | N/A |
|                                                                              | RETAP size=8192     | N/A  | N/A | N/A | 21.97 | 21.88 | 21.73 | N/A  | N/A | N/A |
|                                                                              | RETAP size=12288    | N/A  | N/A | N/A | 21.89 | 22.00 | 21.72 | N/A  | N/A | N/A |
| Note: When sensor "ON", only BC1 is reduce the power, other remain the same. |                     |      |     |     |       |       |       |      |     |     |

| LTE-Band 2                 |            |        |           |       |       |       |       |       |       |
|----------------------------|------------|--------|-----------|-------|-------|-------|-------|-------|-------|
| Channel                    | Modulation | RB No. | RB Offset | 1.4M  | 3M    | 5M    | 10M   | 15M   | 20M   |
| Maximum Power (Sensor Off) |            |        |           |       |       |       |       |       |       |
| Low                        | QPSK       | 1      | #0        | 22.73 | 22.62 | 22.75 | 22.78 | 22.79 | 22.74 |
|                            |            | 1      | #Mid      | 22.89 | 22.68 | 22.91 | 22.76 | 22.99 | 22.91 |
|                            |            | 1      | #Max      | 22.88 | 22.78 | 22.73 | 22.95 | 22.97 | 22.91 |
|                            |            | 50%    | #0        | 22.78 | 21.82 | 21.81 | 21.8  | 21.73 | 21.75 |
|                            |            | 50%    | #Mid      | 22.85 | 21.86 | 21.86 | 21.83 | 21.79 | 21.72 |
|                            |            | 50%    | #Max      | 22.74 | 21.89 | 21.9  | 21.73 | 21.88 | 21.75 |
|                            |            | 100%   | --        | 21.87 | 21.86 | 21.8  | 21.7  | 21.71 | 21.7  |
|                            | 16QAM      | 1      | #0        | 21.79 | 21.67 | 21.73 | 22.14 | 22.16 | 22.11 |
|                            |            | 1      | #Mid      | 21.8  | 21.7  | 21.77 | 21.49 | 21.89 | 22.2  |
|                            |            | 1      | #Max      | 21.79 | 21.67 | 21.89 | 21.89 | 22.11 | 21.73 |
|                            |            | 50%    | #0        | 21.86 | 20.77 | 20.93 | 20.78 | 20.83 | 20.71 |
|                            |            | 50%    | #Mid      | 21.93 | 20.76 | 20.78 | 20.79 | 20.74 | 20.74 |
|                            |            | 50%    | #Max      | 21.96 | 20.88 | 20.91 | 20.72 | 20.78 | 20.6  |
|                            |            | 100%   | --        | 20.88 | 20.82 | 20.76 | 20.63 | 20.64 | 20.68 |
| Mid                        | QPSK       | 1      | #0        | 22.69 | 22.69 | 22.79 | 22.94 | 22.96 | 22.86 |
|                            |            | 1      | #Mid      | 22.79 | 22.65 | 22.84 | 22.72 | 22.81 | 22.73 |
|                            |            | 1      | #Max      | 22.78 | 22.92 | 22.86 | 22.93 | 22.83 | 22.72 |
|                            |            | 50%    | #0        | 22.72 | 21.89 | 21.91 | 21.81 | 21.82 | 21.65 |
|                            |            | 50%    | #Mid      | 22.78 | 21.83 | 21.86 | 21.81 | 21.82 | 21.67 |
|                            |            | 50%    | #Max      | 22.76 | 21.88 | 21.92 | 21.83 | 21.67 | 21.65 |
|                            |            | 100%   | --        | 21.92 | 21.81 | 21.88 | 21.7  | 21.64 | 21.72 |
|                            | 16QAM      | 1      | #0        | 21.69 | 21.76 | 21.77 | 21.65 | 21.68 | 21.78 |
|                            |            | 1      | #Mid      | 21.66 | 21.72 | 21.68 | 21.99 | 22.12 | 22.07 |
|                            |            | 1      | #Max      | 21.6  | 21.8  | 21.66 | 22.13 | 21.83 | 22.01 |
|                            |            | 50%    | #0        | 21.88 | 20.75 | 20.85 | 20.85 | 20.77 | 20.59 |
|                            |            | 50%    | #Mid      | 21.91 | 20.79 | 20.92 | 20.82 | 20.88 | 20.72 |
|                            |            | 50%    | #Max      | 21.91 | 20.74 | 20.93 | 20.81 | 20.76 | 20.63 |
|                            |            | 100%   | --        | 20.84 | 20.72 | 20.84 | 20.6  | 20.65 | 20.72 |
| High                       | QPSK       | 1      | #0        | 22.83 | 22.67 | 22.81 | 22.76 | 22.74 | 22.66 |
|                            |            | 1      | #Mid      | 23.01 | 22.85 | 22.82 | 22.84 | 22.88 | 22.76 |
|                            |            | 1      | #Max      | 22.89 | 22.93 | 22.95 | 22.87 | 23.01 | 22.81 |
|                            |            | 50%    | #0        | 22.96 | 21.95 | 21.89 | 21.82 | 21.69 | 21.56 |
|                            |            | 50%    | #Mid      | 22.97 | 21.96 | 21.89 | 21.81 | 21.74 | 21.54 |
|                            |            | 50%    | #Max      | 23    | 21.96 | 21.92 | 21.79 | 21.76 | 21.57 |
|                            |            | 100%   | --        | 22.02 | 21.99 | 21.82 | 21.61 | 21.69 | 21.67 |
|                            | 16QAM      | 1      | #0        | 21.83 | 21.69 | 21.66 | 22.01 | 21.94 | 21.68 |
|                            |            | 1      | #Mid      | 21.81 | 21.67 | 22.09 | 22.08 | 21.62 | 21.72 |
|                            |            | 1      | #Max      | 21.88 | 21.8  | 22.2  | 21.89 | 21.82 | 21.85 |
|                            |            | 50%    | #0        | 22.1  | 20.76 | 20.94 | 20.68 | 20.64 | 20.56 |
|                            |            | 50%    | #Mid      | 21.98 | 20.85 | 20.94 | 20.69 | 20.68 | 20.5  |
|                            |            | 50%    | #Max      | 22.02 | 20.93 | 21.02 | 20.84 | 20.73 | 20.53 |
|                            |            | 100%   | --        | 21.07 | 20.91 | 20.76 | 20.58 | 20.62 | 20.6  |

| LTE-Band 2               |            |        |           |       |       |       |       |       |       |
|--------------------------|------------|--------|-----------|-------|-------|-------|-------|-------|-------|
| Channel                  | Modulation | RB No. | RB Offset | 1.4M  | 3M    | 5M    | 10M   | 15M   | 20M   |
| Reduce Power (Sensor ON) |            |        |           |       |       |       |       |       |       |
| Low                      | QPSK       | 1      | #0        | 21.28 | 21.22 | 21.25 | 21.29 | 21.34 | 21.72 |
|                          |            | 1      | #Mid      | 21.27 | 21.21 | 21.31 | 21.39 | 21.47 | 21.82 |
|                          |            | 1      | #Max      | 21.23 | 21.27 | 21.37 | 21.41 | 21.45 | 21.76 |
|                          |            | 50%    | #0        | 21.23 | 21.18 | 21.29 | 21.18 | 21.24 | 21.52 |
|                          |            | 50%    | #Mid      | 21.17 | 21.2  | 21.29 | 21.32 | 21.3  | 21.54 |
|                          |            | 50%    | #Max      | 21.18 | 21.21 | 21.34 | 21.33 | 21.22 | 21.52 |
|                          |            | 100%   | --        | 21.2  | 21.18 | 21.31 | 21.09 | 21.16 | 21.54 |
|                          | 16QAM      | 1      | #0        | 21.01 | 21.01 | 21.21 | 21.52 | 21.45 | 21.43 |
|                          |            | 1      | #Mid      | 21.2  | 21.1  | 21.18 | 21.64 | 21.43 | 21.42 |
|                          |            | 1      | #Max      | 21.18 | 21.02 | 21.14 | 21.47 | 21.58 | 21.31 |
|                          |            | 50%    | #0        | 21.23 | 20.69 | 20.79 | 20.73 | 20.66 | 20.54 |
|                          |            | 50%    | #Mid      | 21.2  | 20.63 | 20.83 | 20.76 | 20.73 | 20.57 |
|                          |            | 50%    | #Max      | 21.26 | 20.68 | 20.86 | 20.79 | 20.71 | 20.55 |
|                          |            | 100%   | --        | 20.76 | 20.67 | 20.67 | 20.63 | 20.59 | 20.57 |
| Mid                      | QPSK       | 1      | #0        | 21.18 | 21.25 | 21.3  | 21.47 | 21.49 | 21.89 |
|                          |            | 1      | #Mid      | 21.2  | 21.18 | 21.29 | 21.22 | 21.27 | 21.78 |
|                          |            | 1      | #Max      | 21.26 | 21.26 | 21.33 | 21.4  | 21.39 | 21.68 |
|                          |            | 50%    | #0        | 21.24 | 21.21 | 21.38 | 21.28 | 21.21 | 21.45 |
|                          |            | 50%    | #Mid      | 21.16 | 21.19 | 21.3  | 21.2  | 21.15 | 21.47 |
|                          |            | 50%    | #Max      | 21.16 | 21.2  | 21.41 | 21.32 | 21.11 | 21.42 |
|                          |            | 100%   | --        | 21.23 | 21.12 | 21.28 | 21.13 | 21.08 | 21.5  |
|                          | 16QAM      | 1      | #0        | 21.04 | 21.05 | 21.37 | 21.58 | 21.45 | 21.36 |
|                          |            | 1      | #Mid      | 21.2  | 20.98 | 21.39 | 21.16 | 21.38 | 21.43 |
|                          |            | 1      | #Max      | 21.13 | 20.95 | 21.54 | 21.22 | 21.31 | 21.37 |
|                          |            | 50%    | #0        | 21.25 | 20.65 | 20.89 | 20.73 | 20.65 | 20.52 |
|                          |            | 50%    | #Mid      | 21.15 | 20.63 | 20.79 | 20.77 | 20.67 | 20.48 |
|                          |            | 50%    | #Max      | 21.2  | 20.6  | 20.93 | 20.73 | 20.65 | 20.42 |
|                          |            | 100%   | --        | 20.72 | 20.64 | 20.78 | 20.59 | 20.52 | 20.44 |
| High                     | QPSK       | 1      | #0        | 21.33 | 21.25 | 21.32 | 21.18 | 21.26 | 21.71 |
|                          |            | 1      | #Mid      | 21.44 | 21.36 | 21.35 | 21.28 | 21.39 | 21.61 |
|                          |            | 1      | #Max      | 21.41 | 21.41 | 21.44 | 21.51 | 21.51 | 21.88 |
|                          |            | 50%    | #0        | 21.42 | 21.36 | 21.36 | 21.24 | 21.11 | 21.41 |
|                          |            | 50%    | #Mid      | 21.41 | 21.36 | 21.39 | 21.18 | 21.09 | 21.39 |
|                          |            | 50%    | #Max      | 21.38 | 21.4  | 21.44 | 21.35 | 21.21 | 21.51 |
|                          |            | 100%   | --        | 21.43 | 21.35 | 21.34 | 21.09 | 21.07 | 21.55 |
|                          | 16QAM      | 1      | #0        | 21.37 | 21.12 | 21.37 | 21.11 | 21.35 | 21.26 |
|                          |            | 1      | #Mid      | 21.21 | 21.22 | 21.47 | 21.15 | 21.29 | 21.35 |
|                          |            | 1      | #Max      | 21.38 | 21.26 | 21.57 | 21.29 | 21.64 | 21.22 |
|                          |            | 50%    | #0        | 21.43 | 20.76 | 20.89 | 20.73 | 20.56 | 20.45 |
|                          |            | 50%    | #Mid      | 21.43 | 20.82 | 20.92 | 20.69 | 20.56 | 20.41 |
|                          |            | 50%    | #Max      | 21.42 | 20.82 | 20.96 | 20.78 | 20.58 | 20.51 |
|                          |            | 100%   | --        | 20.93 | 20.77 | 20.72 | 20.57 | 20.55 | 20.54 |

| LTE-Band 4                 |            |        |           |       |       |       |       |       |       |
|----------------------------|------------|--------|-----------|-------|-------|-------|-------|-------|-------|
| Channel                    | Modulation | RB No. | RB Offset | 1.4M  | 3M    | 5M    | 10M   | 15M   | 20M   |
| Maximum Power (Sensor Off) |            |        |           |       |       |       |       |       |       |
| Low                        | QPSK       | 1      | #0        | 22.54 | 22.91 | 22.72 | 22.74 | 22.61 | 22.78 |
|                            |            | 1      | #Mid      | 23.08 | 22.87 | 22.89 | 22.77 | 22.8  | 22.86 |
|                            |            | 1      | #Max      | 22.79 | 22.89 | 22.77 | 22.72 | 22.84 | 22.81 |
|                            |            | 50%    | #0        | 22.53 | 21.53 | 22.01 | 21.69 | 21.67 | 21.63 |
|                            |            | 50%    | #Mid      | 22.65 | 21.81 | 21.84 | 21.71 | 21.56 | 21.66 |
|                            |            | 50%    | #Max      | 22.66 | 21.87 | 21.78 | 21.55 | 21.56 | 21.73 |
|                            |            | 100%   | --        | 21.89 | 21.66 | 21.69 | 21.52 | 21.65 | 21.67 |
|                            | 16QAM      | 1      | #0        | 21.74 | 22.02 | 22.11 | 22.09 | 22.04 | 21.58 |
|                            |            | 1      | #Mid      | 21.88 | 22.05 | 21.47 | 21.83 | 22.08 | 21.8  |
|                            |            | 1      | #Max      | 21.97 | 21.96 | 21.65 | 21.69 | 21.5  | 21.82 |
|                            |            | 50%    | #0        | 21.81 | 20.95 | 20.84 | 20.69 | 20.6  | 20.48 |
|                            |            | 50%    | #Mid      | 21.95 | 20.64 | 20.83 | 20.66 | 20.47 | 20.64 |
|                            |            | 50%    | #Max      | 21.47 | 20.7  | 20.79 | 20.79 | 20.86 | 20.62 |
|                            |            | 100%   | --        | 20.94 | 21.05 | 20.63 | 20.45 | 20.59 | 20.64 |
| Mid                        | QPSK       | 1      | #0        | 23.05 | 22.95 | 22.91 | 22.95 | 22.94 | 22.9  |
|                            |            | 1      | #Mid      | 22.93 | 22.9  | 22.98 | 22.86 | 22.77 | 22.74 |
|                            |            | 1      | #Max      | 22.99 | 22.82 | 22.94 | 22.88 | 23.02 | 23.05 |
|                            |            | 50%    | #0        | 22.97 | 21.96 | 21.88 | 21.87 | 21.81 | 21.73 |
|                            |            | 50%    | #Mid      | 22.93 | 21.91 | 21.93 | 21.77 | 21.73 | 21.65 |
|                            |            | 50%    | #Max      | 22.88 | 21.98 | 21.9  | 22.06 | 21.74 | 21.28 |
|                            |            | 100%   | --        | 22.02 | 21.86 | 21.76 | 21.72 | 21.61 | 21.66 |
|                            | 16QAM      | 1      | #0        | 21.94 | 21.56 | 21.98 | 21.37 | 22.28 | 21.82 |
|                            |            | 1      | #Mid      | 21.92 | 22.07 | 21.84 | 21.96 | 21.79 | 21.83 |
|                            |            | 1      | #Max      | 21.82 | 21.8  | 22.24 | 22.18 | 21.75 | 24.04 |
|                            |            | 50%    | #0        | 21.99 | 21.01 | 20.98 | 20.85 | 20.75 | 20.64 |
|                            |            | 50%    | #Mid      | 21.96 | 20.85 | 20.91 | 20.75 | 20.66 | 20.71 |
|                            |            | 50%    | #Max      | 22.01 | 20.94 | 20.96 | 20.52 | 20.82 | 20.71 |
|                            |            | 100%   | --        | 21.19 | 20.99 | 20.83 | 20.67 | 20.68 | 20.61 |
| High                       | QPSK       | 1      | #0        | 22.8  | 23.07 | 22.82 | 23.34 | 23    | 23.33 |
|                            |            | 1      | #Mid      | 22.85 | 22.76 | 23.16 | 23.02 | 23.51 | 22.78 |
|                            |            | 1      | #Max      | 22.78 | 22.76 | 22.91 | 22.68 | 22.73 | 22.8  |
|                            |            | 50%    | #0        | 22.81 | 21.91 | 22.08 | 21.92 | 22.15 | 21.79 |
|                            |            | 50%    | #Mid      | 22.87 | 21.89 | 21.75 | 21.75 | 21.79 | 21.65 |
|                            |            | 50%    | #Max      | 22.85 | 21.88 | 21.72 | 21.88 | 21.65 | 21.52 |
|                            |            | 100%   | --        | 21.93 | 21.91 | 21.64 | 21.68 | 21.7  | 21.69 |
|                            | 16QAM      | 1      | #0        | 22    | 22.08 | 22.19 | 21.93 | 21.25 | 21.64 |
|                            |            | 1      | #Mid      | 22.06 | 21.74 | 22.04 | 21.95 | 21.59 | 21.85 |
|                            |            | 1      | #Max      | 22.07 | 21.71 | 21.53 | 21.77 | 21.65 | 21.45 |
|                            |            | 50%    | #0        | 21.92 | 20.88 | 21.03 | 20.77 | 20.46 | 20.73 |
|                            |            | 50%    | #Mid      | 21.98 | 20.84 | 21.21 | 20.73 | 20.78 | 20.55 |
|                            |            | 50%    | #Max      | 21.95 | 20.86 | 21.19 | 20.73 | 20.69 | 20.59 |
|                            |            | 100%   | --        | 21.06 | 20.93 | 21.02 | 20.62 | 20.67 | 20.68 |

| LTE-Band 4                |            |        |           |       |       |       |       |       |       |
|---------------------------|------------|--------|-----------|-------|-------|-------|-------|-------|-------|
| Channel                   | Modulation | RB No. | RB Offset | 1.4M  | 3M    | 5M    | 10M   | 15M   | 20M   |
| Maximum Power (Sensor ON) |            |        |           |       |       |       |       |       |       |
| Low                       | QPSK       | 1      | #0        | 21.04 | 21.04 | 21.06 | 21.14 | 21.09 | 21.78 |
|                           |            | 1      | #Mid      | 21.08 | 21.04 | 21.01 | 21.07 | 21.15 | 21.84 |
|                           |            | 1      | #Max      | 21.07 | 21.04 | 21.03 | 21.1  | 21.12 | 21.92 |
|                           |            | 50%    | #0        | 21.05 | 21.16 | 20.99 | 20.98 | 20.92 | 21.56 |
|                           |            | 50%    | #Mid      | 20.99 | 21    | 20.98 | 20.9  | 20.86 | 21.62 |
|                           |            | 50%    | #Max      | 21.02 | 21.05 | 21.02 | 20.98 | 20.82 | 21.6  |
|                           |            | 100%   | --        | 21.18 | 20.96 | 20.95 | 20.78 | 20.86 | 21.65 |
|                           | 16QAM      | 1      | #0        | 20.98 | 21.1  | 20.73 | 21.07 | 21.2  | 21.06 |
|                           |            | 1      | #Mid      | 20.99 | 21.16 | 20.86 | 20.95 | 21.15 | 21.12 |
|                           |            | 1      | #Max      | 21.03 | 20.97 | 20.76 | 20.89 | 21.17 | 20.96 |
|                           |            | 50%    | #0        | 21.13 | 20.48 | 20.55 | 20.41 | 20.34 | 20.57 |
|                           |            | 50%    | #Mid      | 21.06 | 20.52 | 20.63 | 20.41 | 20.46 | 20.63 |
|                           |            | 50%    | #Max      | 21.08 | 20.54 | 20.51 | 20.42 | 20.34 | 20.65 |
|                           |            | 100%   | --        | 20.61 | 20.41 | 20.31 | 20.3  | 20.33 | 20.7  |
| Mid                       | QPSK       | 1      | #0        | 21.16 | 21.14 | 21.1  | 21.11 | 21.29 | 21.91 |
|                           |            | 1      | #Mid      | 21.19 | 21.19 | 21.17 | 21.11 | 21.13 | 21.98 |
|                           |            | 1      | #Max      | 21.18 | 21.22 | 21.2  | 21.15 | 21.22 | 22.01 |
|                           |            | 50%    | #0        | 21.2  | 21.14 | 21.05 | 21.03 | 20.68 | 21.64 |
|                           |            | 50%    | #Mid      | 21.13 | 21.18 | 21.1  | 21.04 | 20.97 | 21.59 |
|                           |            | 50%    | #Max      | 21.17 | 21.06 | 21.05 | 21.07 | 21.03 | 21.62 |
|                           |            | 100%   | --        | 21.19 | 21.09 | 21.02 | 20.88 | 20.88 | 21.65 |
|                           | 16QAM      | 1      | #0        | 21.02 | 21.15 | 21.01 | 21    | 21.26 | 21.06 |
|                           |            | 1      | #Mid      | 21.17 | 21.21 | 20.96 | 21.09 | 21.23 | 21.13 |
|                           |            | 1      | #Max      | 21.12 | 21.16 | 21.12 | 21.3  | 22.85 | 21.21 |
|                           |            | 50%    | #0        | 21.22 | 20.5  | 20.48 | 20.48 | 20.43 | 20.65 |
|                           |            | 50%    | #Mid      | 21.17 | 20.57 | 20.71 | 20.44 | 20.57 | 20.73 |
|                           |            | 50%    | #Max      | 21.19 | 20.65 | 20.71 | 20.53 | 20.78 | 20.56 |
|                           |            | 100%   | --        | 20.83 | 20.6  | 20.67 | 20.33 | 20.38 | 20.7  |
| High                      | QPSK       | 1      | #0        | 21.16 | 21.02 | 21.11 | 21.23 | 21.27 | 21.98 |
|                           |            | 1      | #Mid      | 21.12 | 21.11 | 21.02 | 21.09 | 21.13 | 22.09 |
|                           |            | 1      | #Max      | 21.16 | 21.31 | 21.24 | 21.02 | 21.12 | 22.04 |
|                           |            | 50%    | #0        | 21.1  | 20.97 | 21.28 | 20.98 | 20.81 | 21.82 |
|                           |            | 50%    | #Mid      | 21.11 | 21.12 | 21.01 | 21.16 | 20.93 | 21.74 |
|                           |            | 50%    | #Max      | 21.08 | 21.05 | 21.22 | 20.92 | 20.9  | 21.56 |
|                           |            | 100%   | --        | 21.14 | 20.99 | 20.86 | 20.77 | 20.86 | 21.74 |
|                           | 16QAM      | 1      | #0        | 21.08 | 21.35 | 21.08 | 21.07 | 21.21 | 22.01 |
|                           |            | 1      | #Mid      | 21.03 | 21.29 | 21.04 | 20.99 | 21.08 | 22.07 |
|                           |            | 1      | #Max      | 21.06 | 21.25 | 21.12 | 20.91 | 21.11 | 21.79 |
|                           |            | 50%    | #0        | 21.05 | 20.59 | 20.89 | 20.37 | 20.49 | 20.75 |
|                           |            | 50%    | #Mid      | 21.32 | 20.61 | 20.7  | 20.5  | 20.31 | 20.77 |
|                           |            | 50%    | #Max      | 21.19 | 20.63 | 20.66 | 20.49 | 20.23 | 20.68 |
|                           |            | 100%   | --        | 20.75 | 20.6  | 20.5  | 20.34 | 20.5  | 20.84 |



| LTE-Band 5                    |            |        |           |       |       |       |       |     |     |
|-------------------------------|------------|--------|-----------|-------|-------|-------|-------|-----|-----|
| Channel                       | Modulation | RB No. | RB Offset | 1.4M  | 3M    | 5M    | 10M   | 15M | 20M |
| Maximum Power (Sensor On=Off) |            |        |           |       |       |       |       |     |     |
| Low                           | QPSK       | 1      | #0        | 22.47 | 22.32 | 22.4  | 22.43 | N/A | N/A |
|                               |            | 1      | #Mid      | 22.36 | 22.35 | 22.23 | 22.24 | N/A | N/A |
|                               |            | 1      | #Max      | 22.39 | 22.32 | 22.35 | 22.45 | N/A | N/A |
|                               |            | 50%    | #0        | 22.44 | 21.49 | 21.33 | 21.26 | N/A | N/A |
|                               |            | 50%    | #Mid      | 22.43 | 21.32 | 21.29 | 21.32 | N/A | N/A |
|                               |            | 50%    | #Max      | 22.39 | 21.4  | 21.32 | 21.32 | N/A | N/A |
|                               |            | 100%   | --        | 21.55 | 21.31 | 21.22 | 21.2  | N/A | N/A |
|                               | 16QAM      | 1      | #0        | 21.7  | 21.27 | 21.21 | 21.44 | N/A | N/A |
|                               |            | 1      | #Mid      | 21.67 | 21.32 | 21.27 | 21.28 | N/A | N/A |
|                               |            | 1      | #Max      | 21.67 | 21.23 | 21.19 | 21.24 | N/A | N/A |
|                               |            | 50%    | #0        | 21.37 | 20.46 | 20.34 | 20.31 | N/A | N/A |
|                               |            | 50%    | #Mid      | 21.35 | 20.3  | 20.39 | 20.27 | N/A | N/A |
|                               |            | 50%    | #Max      | 21.41 | 20.28 | 20.4  | 20.22 | N/A | N/A |
|                               |            | 100%   | --        | 20.49 | 20.39 | 20.2  | 20.08 | N/A | N/A |
| Mid                           | QPSK       | 1      | #0        | 22.4  | 22.31 | 22.35 | 22.35 | N/A | N/A |
|                               |            | 1      | #Mid      | 22.46 | 22.35 | 22.37 | 22.42 | N/A | N/A |
|                               |            | 1      | #Max      | 22.41 | 22.4  | 22.43 | 22.41 | N/A | N/A |
|                               |            | 50%    | #0        | 22.43 | 21.57 | 21.43 | 21.39 | N/A | N/A |
|                               |            | 50%    | #Mid      | 22.46 | 21.44 | 21.48 | 21.41 | N/A | N/A |
|                               |            | 50%    | #Max      | 22.42 | 21.54 | 21.48 | 21.39 | N/A | N/A |
|                               |            | 100%   | --        | 21.57 | 21.43 | 21.42 | 21.21 | N/A | N/A |
|                               | 16QAM      | 1      | #0        | 21.43 | 21.61 | 21.3  | 21.36 | N/A | N/A |
|                               |            | 1      | #Mid      | 21.46 | 21.63 | 21.72 | 21.73 | N/A | N/A |
|                               |            | 1      | #Max      | 21.44 | 21.6  | 21.73 | 21.33 | N/A | N/A |
|                               |            | 50%    | #0        | 21.47 | 20.4  | 20.49 | 20.28 | N/A | N/A |
|                               |            | 50%    | #Mid      | 21.49 | 20.44 | 20.51 | 20.4  | N/A | N/A |
|                               |            | 50%    | #Max      | 21.53 | 20.46 | 20.63 | 20.46 | N/A | N/A |
|                               |            | 100%   | --        | 20.51 | 20.38 | 20.3  | 20.27 | N/A | N/A |
| High                          | QPSK       | 1      | #0        | 22.5  | 22.25 | 22.27 | 22.41 | N/A | N/A |
|                               |            | 1      | #Mid      | 22.45 | 22.25 | 22.38 | 22.35 | N/A | N/A |
|                               |            | 1      | #Max      | 22.59 | 22.31 | 22.29 | 22.35 | N/A | N/A |
|                               |            | 50%    | #0        | 22.45 | 21.45 | 21.54 | 21.3  | N/A | N/A |
|                               |            | 50%    | #Mid      | 22.39 | 21.43 | 21.45 | 21.38 | N/A | N/A |
|                               |            | 50%    | #Max      | 22.4  | 21.43 | 21.52 | 21.36 | N/A | N/A |
|                               |            | 100%   | --        | 21.57 | 21.43 | 21.32 | 21.28 | N/A | N/A |
|                               | 16QAM      | 1      | #0        | 21.43 | 21.55 | 21.68 | 21.32 | N/A | N/A |
|                               |            | 1      | #Mid      | 21.38 | 21.5  | 21.13 | 21.33 | N/A | N/A |
|                               |            | 1      | #Max      | 21.35 | 21.48 | 21.35 | 21.38 | N/A | N/A |
|                               |            | 50%    | #0        | 21.52 | 20.46 | 20.48 | 20.49 | N/A | N/A |
|                               |            | 50%    | #Mid      | 21.45 | 20.47 | 20.4  | 20.31 | N/A | N/A |
|                               |            | 50%    | #Max      | 21.57 | 20.52 | 20.42 | 20.26 | N/A | N/A |
|                               |            | 100%   | --        | 20.47 | 20.45 | 20.47 | 20.21 | N/A | N/A |

Note: When sensor "ON", power remain the same.

| LTE-Band 13                   |            |        |           |      |     |       |       |     |     |
|-------------------------------|------------|--------|-----------|------|-----|-------|-------|-----|-----|
| Channel                       | Modulation | RB No. | RB Offset | 1.4M | 3M  | 5M    | 10M   | 15M | 20M |
| Maximum Power (Sensor On=Off) |            |        |           |      |     |       |       |     |     |
| Low                           | QPSK       | 1      | #0        | N/A  | N/A | 22.4  | 22.33 | N/A | N/A |
|                               |            | 1      | #Mid      | N/A  | N/A | 22.38 | 22.54 | N/A | N/A |
|                               |            | 1      | #Max      | N/A  | N/A | 22.52 | 22.55 | N/A | N/A |
|                               |            | 50%    | #0        | N/A  | N/A | 21.36 | 21.38 | N/A | N/A |
|                               |            | 50%    | #Mid      | N/A  | N/A | 21.33 | 21.55 | N/A | N/A |
|                               |            | 50%    | #Max      | N/A  | N/A | 21.52 | 21.55 | N/A | N/A |
|                               |            | 100%   | --        | N/A  | N/A | 21.26 | 21.41 | N/A | N/A |
|                               | 16QAM      | 1      | #0        | N/A  | N/A | 21.5  | 20.97 | N/A | N/A |
|                               |            | 1      | #Mid      | N/A  | N/A | 21.61 | 21.76 | N/A | N/A |
|                               |            | 1      | #Max      | N/A  | N/A | 21.8  | 21.6  | N/A | N/A |
|                               |            | 50%    | #0        | N/A  | N/A | 20.31 | 22.25 | N/A | N/A |
|                               |            | 50%    | #Mid      | N/A  | N/A | 20.31 | 20.55 | N/A | N/A |
|                               |            | 50%    | #Max      | N/A  | N/A | 20.6  | 20.56 | N/A | N/A |
|                               |            | 100%   | --        | N/A  | N/A | 20.38 | 20.38 | N/A | N/A |
| Mid                           | QPSK       | 1      | #0        | N/A  | N/A | 22.37 | 22.09 | N/A | N/A |
|                               |            | 1      | #Mid      | N/A  | N/A | 22.53 | 22.54 | N/A | N/A |
|                               |            | 1      | #Max      | N/A  | N/A | 22.71 | 22.34 | N/A | N/A |
|                               |            | 50%    | #0        | N/A  | N/A | 21.46 | 21.25 | N/A | N/A |
|                               |            | 50%    | #Mid      | N/A  | N/A | 21.62 | 21.51 | N/A | N/A |
|                               |            | 50%    | #Max      | N/A  | N/A | 21.61 | 21.54 | N/A | N/A |
|                               |            | 100%   | --        | N/A  | N/A | 21.59 | 21.32 | N/A | N/A |
|                               | 16QAM      | 1      | #0        | N/A  | N/A | 21.38 | 21.27 | N/A | N/A |
|                               |            | 1      | #Mid      | N/A  | N/A | 21.51 | 21.91 | N/A | N/A |
|                               |            | 1      | #Max      | N/A  | N/A | 21.31 | 21.16 | N/A | N/A |
|                               |            | 50%    | #0        | N/A  | N/A | 20.45 | 22.09 | N/A | N/A |
|                               |            | 50%    | #Mid      | N/A  | N/A | 20.64 | 20.44 | N/A | N/A |
|                               |            | 50%    | #Max      | N/A  | N/A | 20.65 | 20.64 | N/A | N/A |
|                               |            | 100%   | --        | N/A  | N/A | 20.6  | 20.28 | N/A | N/A |
| High                          | QPSK       | 1      | #0        | N/A  | N/A | 22.49 | 22.04 | N/A | N/A |
|                               |            | 1      | #Mid      | N/A  | N/A | 22.64 | 22.57 | N/A | N/A |
|                               |            | 1      | #Max      | N/A  | N/A | 22.25 | 22.4  | N/A | N/A |
|                               |            | 50%    | #0        | N/A  | N/A | 21.61 | 21.42 | N/A | N/A |
|                               |            | 50%    | #Mid      | N/A  | N/A | 21.66 | 21.53 | N/A | N/A |
|                               |            | 50%    | #Max      | N/A  | N/A | 21.38 | 21.54 | N/A | N/A |
|                               |            | 100%   | --        | N/A  | N/A | 21.44 | 21.45 | N/A | N/A |
|                               | 16QAM      | 1      | #0        | N/A  | N/A | 21.4  | 21.17 | N/A | N/A |
|                               |            | 1      | #Mid      | N/A  | N/A | 21.88 | 21.82 | N/A | N/A |
|                               |            | 1      | #Max      | N/A  | N/A | 21.29 | 21.14 | N/A | N/A |
|                               |            | 50%    | #0        | N/A  | N/A | 20.64 | 22.01 | N/A | N/A |
|                               |            | 50%    | #Mid      | N/A  | N/A | 20.64 | 20.47 | N/A | N/A |
|                               |            | 50%    | #Max      | N/A  | N/A | 20.54 | 20.54 | N/A | N/A |
|                               |            | 100%   | --        | N/A  | N/A | 20.47 | 20.44 | N/A | N/A |

Note: When sensor "ON", power remain the same.

| LTE-Band 17                                    |            |        |           |      |     |       |       |     |     |
|------------------------------------------------|------------|--------|-----------|------|-----|-------|-------|-----|-----|
| Channel                                        | Modulation | RB No. | RB Offset | 1.4M | 3M  | 5M    | 10M   | 15M | 20M |
| Maximum Power (Sensor On=Off)                  |            |        |           |      |     |       |       |     |     |
| Low                                            | QPSK       | 1      | #0        | N/A  | N/A | 22.43 | 22.16 | N/A | N/A |
|                                                |            | 1      | #Mid      | N/A  | N/A | 22.4  | 22.48 | N/A | N/A |
|                                                |            | 1      | #Max      | N/A  | N/A | 22.61 | 22.43 | N/A | N/A |
|                                                |            | 50%    | #0        | N/A  | N/A | 21.45 | 21.54 | N/A | N/A |
|                                                |            | 50%    | #Mid      | N/A  | N/A | 21.69 | 21.58 | N/A | N/A |
|                                                |            | 50%    | #Max      | N/A  | N/A | 21.71 | 21.62 | N/A | N/A |
|                                                |            | 100%   | --        | N/A  | N/A | 21.44 | 21.42 | N/A | N/A |
|                                                | 16QAM      | 1      | #0        | N/A  | N/A | 21.51 | 21.12 | N/A | N/A |
|                                                |            | 1      | #Mid      | N/A  | N/A | 21.79 | 21.86 | N/A | N/A |
|                                                |            | 1      | #Max      | N/A  | N/A | 21.82 | 21.29 | N/A | N/A |
|                                                |            | 50%    | #0        | N/A  | N/A | 20.61 | 20.4  | N/A | N/A |
|                                                |            | 50%    | #Mid      | N/A  | N/A | 20.62 | 20.44 | N/A | N/A |
|                                                |            | 50%    | #Max      | N/A  | N/A | 20.71 | 20.54 | N/A | N/A |
|                                                |            | 100%   | --        | N/A  | N/A | 20.42 | 20.4  | N/A | N/A |
| Mid                                            | QPSK       | 1      | #0        | N/A  | N/A | 22.55 | 22.43 | N/A | N/A |
|                                                |            | 1      | #Mid      | N/A  | N/A | 22.48 | 22.54 | N/A | N/A |
|                                                |            | 1      | #Max      | N/A  | N/A | 22.45 | 22.48 | N/A | N/A |
|                                                |            | 50%    | #0        | N/A  | N/A | 21.72 | 21.48 | N/A | N/A |
|                                                |            | 50%    | #Mid      | N/A  | N/A | 21.63 | 21.55 | N/A | N/A |
|                                                |            | 50%    | #Max      | N/A  | N/A | 21.64 | 21.38 | N/A | N/A |
|                                                |            | 100%   | --        | N/A  | N/A | 21.58 | 21.33 | N/A | N/A |
|                                                | 16QAM      | 1      | #0        | N/A  | N/A | 21.82 | 21.67 | N/A | N/A |
|                                                |            | 1      | #Mid      | N/A  | N/A | 21.29 | 21.28 | N/A | N/A |
|                                                |            | 1      | #Max      | N/A  | N/A | 21.52 | 21.56 | N/A | N/A |
|                                                |            | 50%    | #0        | N/A  | N/A | 20.66 | 20.47 | N/A | N/A |
|                                                |            | 50%    | #Mid      | N/A  | N/A | 20.64 | 20.54 | N/A | N/A |
|                                                |            | 50%    | #Max      | N/A  | N/A | 20.52 | 20.5  | N/A | N/A |
|                                                |            | 100%   | --        | N/A  | N/A | 20.61 | 20.26 | N/A | N/A |
| High                                           | QPSK       | 1      | #0        | N/A  | N/A | 22.4  | 22.26 | N/A | N/A |
|                                                |            | 1      | #Mid      | N/A  | N/A | 22.42 | 22.51 | N/A | N/A |
|                                                |            | 1      | #Max      | N/A  | N/A | 22    | 22.1  | N/A | N/A |
|                                                |            | 50%    | #0        | N/A  | N/A | 21.42 | 21.53 | N/A | N/A |
|                                                |            | 50%    | #Mid      | N/A  | N/A | 21.48 | 21.48 | N/A | N/A |
|                                                |            | 50%    | #Max      | N/A  | N/A | 21.34 | 21.32 | N/A | N/A |
|                                                |            | 100%   | --        | N/A  | N/A | 21.41 | 21.17 | N/A | N/A |
|                                                | 16QAM      | 1      | #0        | N/A  | N/A | 21.48 | 21.58 | N/A | N/A |
|                                                |            | 1      | #Mid      | N/A  | N/A | 21.3  | 21.79 | N/A | N/A |
|                                                |            | 1      | #Max      | N/A  | N/A | 21.42 | 20.95 | N/A | N/A |
|                                                |            | 50%    | #0        | N/A  | N/A | 20.6  | 20.46 | N/A | N/A |
|                                                |            | 50%    | #Mid      | N/A  | N/A | 20.44 | 20.38 | N/A | N/A |
|                                                |            | 50%    | #Max      | N/A  | N/A | 20.38 | 20.26 | N/A | N/A |
|                                                |            | 100%   | --        | N/A  | N/A | 20.37 | 20.46 | N/A | N/A |
| Note: When sensor “ON”, power remain the same. |            |        |           |      |     |       |       |     |     |

| LTE-Band 25                |            |        |           |       |       |       |       |       |       |
|----------------------------|------------|--------|-----------|-------|-------|-------|-------|-------|-------|
| Channel                    | Modulation | RB No. | RB Offset | 1.4M  | 3M    | 5M    | 10M   | 15M   | 20M   |
| Maximum Power (Sensor Off) |            |        |           |       |       |       |       |       |       |
| Low                        | QPSK       | 1      | #0        | 22.72 | 22.82 | 22.78 | 22.93 | 22.87 | 22.9  |
|                            |            | 1      | #Mid      | 22.82 | 22.88 | 22.82 | 22.95 | 22.92 | 22.87 |
|                            |            | 1      | #Max      | 22.85 | 22.86 | 22.89 | 22.91 | 22.99 | 22.83 |
|                            |            | 50%    | #0        | 22.87 | 21.82 | 21.9  | 21.84 | 21.72 | 21.72 |
|                            |            | 50%    | #Mid      | 22.84 | 21.87 | 21.81 | 21.81 | 21.8  | 21.71 |
|                            |            | 50%    | #Max      | 22.84 | 21.89 | 21.86 | 21.92 | 21.67 | 21.73 |
|                            |            | 100%   | --        | 21.96 | 21.84 | 21.76 | 21.68 | 21.71 | 21.81 |
|                            | 16QAM      | 1      | #0        | 21.7  | 22.03 | 21.73 | 21.72 | 21.79 | 22.22 |
|                            |            | 1      | #Mid      | 21.76 | 22.08 | 21.59 | 22.15 | 21.81 | 22.21 |
|                            |            | 1      | #Max      | 21.67 | 21.97 | 21.78 | 22.03 | 22.2  | 21.76 |
|                            |            | 50%    | #0        | 21.95 | 20.88 | 20.96 | 20.73 | 20.81 | 20.79 |
|                            |            | 50%    | #Mid      | 21.92 | 20.77 | 20.84 | 20.86 | 20.82 | 20.66 |
|                            |            | 50%    | #Max      | 21.91 | 20.75 | 20.89 | 20.89 | 20.74 | 20.66 |
|                            |            | 100%   | --        | 20.9  | 20.87 | 20.77 | 20.73 | 20.69 | 20.68 |
| Mid                        | QPSK       | 1      | #0        | 22.82 | 22.89 | 22.86 | 23.02 | 22.99 | 22.84 |
|                            |            | 1      | #Mid      | 22.91 | 22.76 | 22.82 | 22.82 | 22.84 | 22.87 |
|                            |            | 1      | #Max      | 22.78 | 22.76 | 22.68 | 22.84 | 22.8  | 22.78 |
|                            |            | 50%    | #0        | 22.94 | 21.97 | 22    | 21.95 | 21.94 | 21.73 |
|                            |            | 50%    | #Mid      | 22.79 | 21.82 | 21.88 | 21.91 | 21.76 | 21.69 |
|                            |            | 50%    | #Max      | 22.78 | 21.86 | 21.85 | 21.85 | 21.77 | 21.6  |
|                            |            | 100%   | --        | 21.82 | 21.84 | 21.76 | 21.7  | 21.63 | 21.72 |
|                            | 16QAM      | 1      | #0        | 21.82 | 22.17 | 22.05 | 22.31 | 21.87 | 21.74 |
|                            |            | 1      | #Mid      | 21.77 | 22.05 | 22.09 | 21.73 | 22.11 | 22.1  |
|                            |            | 1      | #Max      | 21.64 | 22.01 | 21.97 | 22.03 | 21.99 | 21.74 |
|                            |            | 50%    | #0        | 21.96 | 20.98 | 20.96 | 20.98 | 20.82 | 20.76 |
|                            |            | 50%    | #Mid      | 21.92 | 20.84 | 20.84 | 20.83 | 20.76 | 20.58 |
|                            |            | 50%    | #Max      | 21.91 | 20.61 | 20.95 | 20.87 | 20.67 | 20.59 |
|                            |            | 100%   | --        | 20.8  | 20.78 | 20.79 | 20.68 | 20.68 | 20.72 |
| High                       | QPSK       | 1      | #0        | 22.79 | 22.81 | 22.67 | 22.76 | 22.83 | 22.82 |
|                            |            | 1      | #Mid      | 22.77 | 22.85 | 22.82 | 22.88 | 22.88 | 22.87 |
|                            |            | 1      | #Max      | 22.81 | 22.95 | 22.82 | 23.01 | 23.02 | 22.92 |
|                            |            | 50%    | #0        | 22.84 | 21.96 | 21.93 | 21.88 | 21.76 | 21.67 |
|                            |            | 50%    | #Mid      | 22.87 | 22.01 | 21.92 | 21.89 | 21.76 | 21.64 |
|                            |            | 50%    | #Max      | 22.84 | 21.86 | 22.01 | 22.03 | 21.91 | 21.7  |
|                            |            | 100%   | --        | 21.92 | 21.92 | 21.86 | 21.78 | 21.76 | 21.71 |
|                            | 16QAM      | 1      | #0        | 21.76 | 22.1  | 21.82 | 21.7  | 21.55 | 21.75 |
|                            |            | 1      | #Mid      | 21.77 | 22.19 | 21.82 | 22.07 | 22.14 | 21.72 |
|                            |            | 1      | #Max      | 21.79 | 22.08 | 21.55 | 22.23 | 21.83 | 22.11 |
|                            |            | 50%    | #0        | 21.91 | 20.97 | 20.94 | 20.81 | 20.72 | 20.56 |
|                            |            | 50%    | #Mid      | 22.02 | 21.05 | 20.9  | 20.81 | 20.81 | 20.61 |
|                            |            | 50%    | #Max      | 21.91 | 20.86 | 20.96 | 20.95 | 20.83 | 20.63 |
|                            |            | 100%   | --        | 20.97 | 20.93 | 20.96 | 20.71 | 20.69 | 20.63 |

| LTE-Band 25              |            |        |           |       |       |       |       |       |       |
|--------------------------|------------|--------|-----------|-------|-------|-------|-------|-------|-------|
| Channel                  | Modulation | RB No. | RB Offset | 1.4M  | 3M    | 5M    | 10M   | 15M   | 20M   |
| Reduce Power (Sensor ON) |            |        |           |       |       |       |       |       |       |
| Low                      | QPSK       | 1      | #0        | 21.02 | 21.06 | 21.02 | 21.09 | 21.13 | 21.64 |
|                          |            | 1      | #Mid      | 21.1  | 21.07 | 21.02 | 21.14 | 21.08 | 21.65 |
|                          |            | 1      | #Max      | 21.1  | 21.02 | 21.08 | 21.21 | 21.14 | 21.61 |
|                          |            | 50%    | #0        | 21.16 | 21.14 | 21.09 | 20.89 | 20.9  | 21.36 |
|                          |            | 50%    | #Mid      | 21.08 | 21.14 | 21.03 | 21.05 | 20.93 | 21.36 |
|                          |            | 50%    | #Max      | 21.07 | 21.06 | 21.01 | 21.04 | 20.9  | 21.3  |
|                          |            | 100%   | --        | 21.11 | 21.1  | 20.86 | 20.8  | 20.82 | 21.34 |
|                          | 16QAM      | 1      | #0        | 20.93 | 20.9  | 21.25 | 21.18 | 21.13 | 21.04 |
|                          |            | 1      | #Mid      | 21.12 | 20.96 | 21.15 | 21.26 | 21.01 | 20.99 |
|                          |            | 1      | #Max      | 21.04 | 20.79 | 21.29 | 21.19 | 21.08 | 21.01 |
|                          |            | 50%    | #0        | 21.11 | 20.49 | 20.58 | 20.38 | 20.38 | 20.33 |
|                          |            | 50%    | #Mid      | 21.14 | 20.54 | 20.43 | 20.44 | 20.45 | 20.32 |
|                          |            | 50%    | #Max      | 21.13 | 20.52 | 20.54 | 20.43 | 20.34 | 20.3  |
|                          |            | 100%   | --        | 20.64 | 20.49 | 20.34 | 20.32 | 20.3  | 20.35 |
| Mid                      | QPSK       | 1      | #0        | 21.07 | 21.04 | 21.05 | 21.19 | 21.16 | 21.61 |
|                          |            | 1      | #Mid      | 21.04 | 21    | 21.09 | 21.05 | 21.07 | 21.62 |
|                          |            | 1      | #Max      | 21.08 | 21    | 21.04 | 21.02 | 20.98 | 21.54 |
|                          |            | 50%    | #0        | 21.07 | 21.04 | 21.08 | 20.93 | 20.91 | 21.4  |
|                          |            | 50%    | #Mid      | 21.04 | 21.04 | 21.05 | 20.94 | 20.86 | 21.33 |
|                          |            | 50%    | #Max      | 21.05 | 21.08 | 21.06 | 20.94 | 20.89 | 21.26 |
|                          |            | 100%   | --        | 21.08 | 21.03 | 20.9  | 20.81 | 20.85 | 21.29 |
|                          | 16QAM      | 1      | #0        | 21    | 20.78 | 21.06 | 21.34 | 20.84 | 20.77 |
|                          |            | 1      | #Mid      | 21.16 | 20.89 | 20.96 | 21.21 | 20.77 | 20.82 |
|                          |            | 1      | #Max      | 21.05 | 20.88 | 20.96 | 21.03 | 20.66 | 20.68 |
|                          |            | 50%    | #0        | 21.08 | 20.49 | 20.57 | 20.41 | 20.44 | 20.33 |
|                          |            | 50%    | #Mid      | 21.1  | 20.48 | 20.59 | 20.37 | 20.4  | 20.29 |
|                          |            | 50%    | #Max      | 21.14 | 20.5  | 20.55 | 20.34 | 20.29 | 20.24 |
|                          |            | 100%   | --        | 20.64 | 20.47 | 20.4  | 20.27 | 20.34 | 20.26 |
| High                     | QPSK       | 1      | #0        | 21.16 | 21.15 | 21.07 | 21.01 | 21.04 | 21.54 |
|                          |            | 1      | #Mid      | 21.23 | 21.25 | 21.16 | 21.11 | 21.11 | 21.54 |
|                          |            | 1      | #Max      | 21.24 | 21.16 | 21.2  | 21.2  | 21.21 | 21.71 |
|                          |            | 50%    | #0        | 21.16 | 21.2  | 21.24 | 20.95 | 20.84 | 21.23 |
|                          |            | 50%    | #Mid      | 21.24 | 21.24 | 21.21 | 21.06 | 20.95 | 21.21 |
|                          |            | 50%    | #Max      | 21.22 | 21.15 | 21.26 | 21.12 | 21.06 | 21.27 |
|                          |            | 100%   | --        | 21.3  | 21.26 | 21.14 | 20.94 | 21    | 21.28 |
|                          | 16QAM      | 1      | #0        | 21.1  | 21    | 21.14 | 21.16 | 20.75 | 21.09 |
|                          |            | 1      | #Mid      | 21.14 | 21.09 | 21.11 | 21.31 | 20.91 | 20.98 |
|                          |            | 1      | #Max      | 21.17 | 21.09 | 21.11 | 21.39 | 20.97 | 20.95 |
|                          |            | 50%    | #0        | 21.16 | 20.66 | 20.72 | 20.46 | 20.29 | 20.21 |
|                          |            | 50%    | #Mid      | 21.17 | 20.71 | 20.73 | 20.47 | 20.4  | 20.2  |
|                          |            | 50%    | #Max      | 21.24 | 20.64 | 20.77 | 20.56 | 20.55 | 20.26 |
|                          |            | 100%   | --        | 20.83 | 20.7  | 20.69 | 20.4  | 20.4  | 20.3  |

## 9. Proximity Sensor

### 9.1 proximity sensor triggering distances

According the KDB 616217 Section 6.2, The following procedures should be applied to determine proximity sensor triggering distances for the back surface and individual edges of a tablet.

- a) The relevant transmitter should be set to operate at its normal maximum output power.
- b) The entire back surface or edge of the tablet is positioned below a flat phantom filled with the required tissue-equivalent medium, and positioned at least 20 mm further than the distance that triggers power reduction.
- c) It should be ensured that the cables required for power measurements are not interfering with the proximity sensor. Cable losses should be properly compensated to report the measured power results.
- d) The back surface or edge is moved toward the phantom in 3 mm steps until the sensor triggers.
- e) The back surface or edge is then moved back (further away) from the phantom by at least 5 mm or until maximum output power is returned to the normal maximum level.
- f) The back surface or edge is again moved toward the phantom, but in 1 mm steps, until it is at least 5 mm past the triggering point or touching the phantom. If 1 mm resolution is not suitable for the sensor triggering sensitivity, a KDB inquiry should be submitted to determine alternative test configurations.
- g) If the tablet is not touching the phantom, it is moved in 3 mm steps until it touches the phantom to confirm that the sensor remains triggered and the maximum power stays reduced.
- h) The process is then reversed by moving the tablet away from the phantom according to steps d) to g), to determine triggering release, until it is at least 10 mm beyond the point that triggers the return of normal maximum power.
- i) The measured output power within 5 mm of the triggering points, or until the tablet is touching the phantom, for movements to and from the phantom should be tabulated in the SAR report.
- j) If the sensor design and implementation allow additional variations for triggering distance tolerances, multiple samples should be tested to determine the most conservative distance required for SAR evaluation.
- k) To ensure all production units are compliant, it is generally necessary to reduce the triggering distance determined from the triggering tests by 1 mm, or more if it is necessary, and use the smallest distance for movements to and from the phantom, minus 1 mm, as the sensor triggering distance for determining the SAR measurement distance.

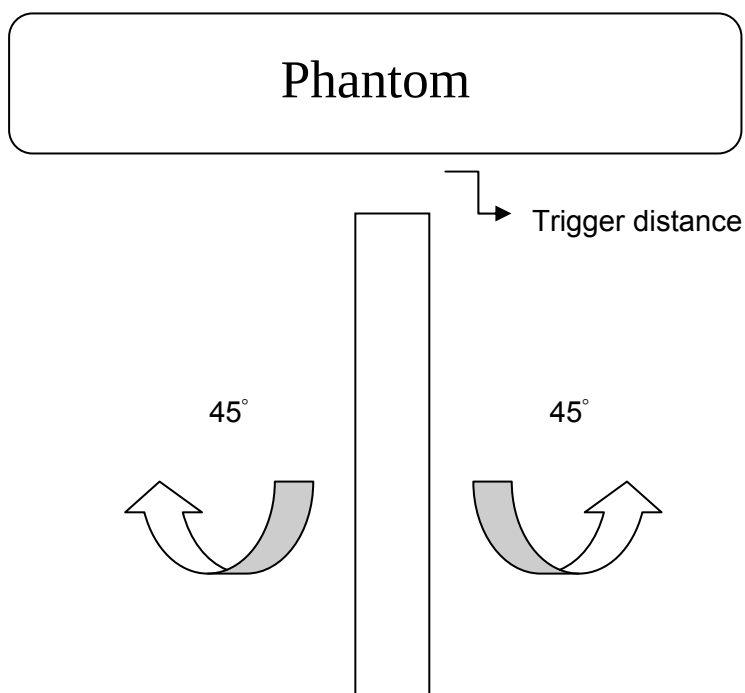
## 9.2 Procedures for determining antenna and proximity sensor coverage

Proximity sensors are not normally designed to cover the entire back surface or edges of a tablet. The sensing regions are usually limited to areas near the sensor element. The following are used to determine if additional SAR measurements may be necessary due to sensor and antenna offset.

- a) The back surface or edge of the tablet is positioned at a test separation distance less than or equal to the distance required for back surface or edge triggering, with both the antenna and sensor pad located at least 20 mm laterally outside the edge (boundary) of the phantom, along the direction of maximum antenna and sensor offset. For the back surface, if the direction of maximum offset is not aligned with the tablet coordinates (physical edges) the tablet test position would not be aligned with the phantom coordinates (orientations). Each applicable tablet edge should be positioned perpendicularly to the phantom to determine sensor coverage. For antennas and/or sensors located near the corner of a tablet, both adjacent edges must be considered.
- b) The similar sequence of steps applied to determine sensor triggering distance in 6.2 are used to verify back surface and edge sensor coverage by moving the tablet (sensor and antenna) horizontally toward the phantom while maintaining the same vertical separation between the back surface or edge and the phantom.
- c) After the exact location where triggering of power reduction is determined, with respect to the sensor and antenna, the tablet movement should be continued, in 3 mm increments, until both the sensor and antenna(s) are fully under the phantom and at least 20 mm inside the phantom edge.
- d) The process is then repeated from the opposite direction, starting at the other end of the maximum antenna and sensor offset, by rotating the tablet 180 along the vertical axis.
- e) The triggering points should be documented graphically, with the antenna and sensor clearly identified, along with all relevant dimensions.
- f) If the subsequently measured peak SAR location for the antenna is not between the triggering points, established by the sensor coverage tests from opposite ends of the antenna and sensor, additional SAR tests may be required for conditions where only part of the back surface or edge of a tablet corresponding to the antenna is in proximity to the user and the sensor may not be triggering as desired. A KDB inquiry must be submitted by the test lab to determine if additional tests are required and the proper test configurations to use for testing. This may include situations where the sensor coverage region is too small for the antenna, the sensor is located too far away from the antenna, the sensor location is insufficient to cover multiple antennas or the antenna is at the corner of a tablet etc.

### 9.3. Procedures for determining tablet tilt angle influences to proximity sensor triggering

- a) The influence of table tilt angles to proximity sensor triggering is determined by positioning each tablet edge that contains a transmitting antenna, perpendicular to the flat phantom, at the smallest sensor triggering test distance determined in 9.1 and 9.2 by rotating the tablet around the edge next to the phantom in  $\leq 10^\circ$  increments until the tablet is  $45^\circ$  or more from the vertical position at  $0^\circ$ .
- b) If sensor triggering is released and normal maximum output power is restored within the  $45^\circ$  range, the procedures in step a) should be repeated by reducing the tablet to phantom separation distance by 1 mm until the proximity sensor no longer releases triggering, and maximum output power remains in the reduced mode.
- c) The smallest separation distance determined in steps a) and b), minus 1 mm, is the sensor triggering distance for tablet tilt coverage. The smallest separation distance determined in 9.1, 9.2 and 9.3 for each triggering condition minus 1 mm should be used in the SAR measurements.



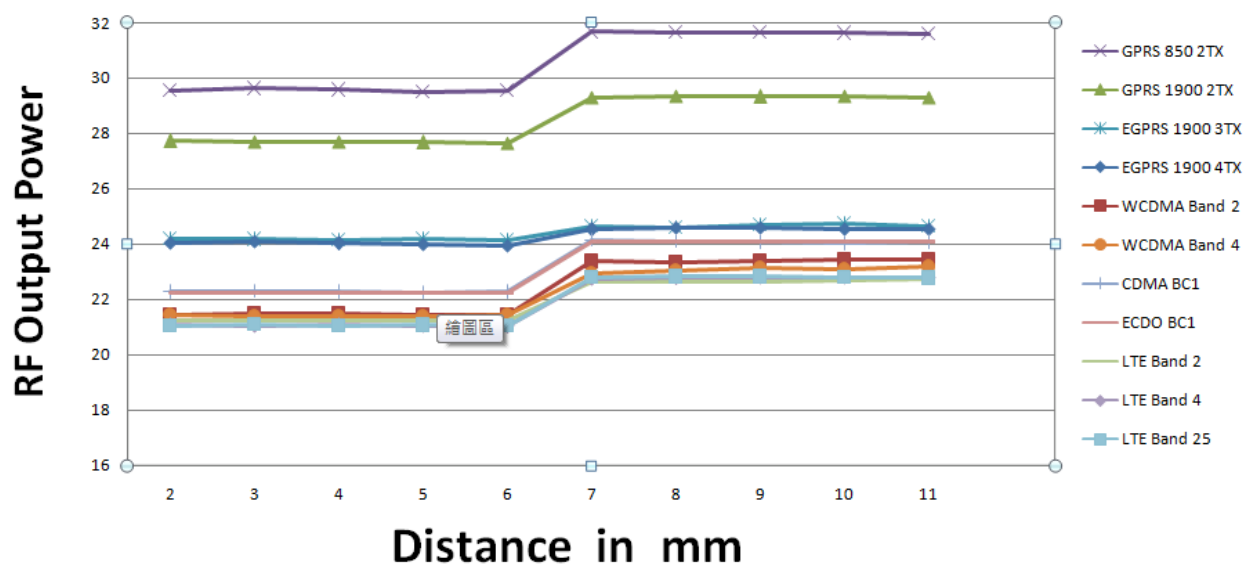


## 9.4. summary of Trigger Distance

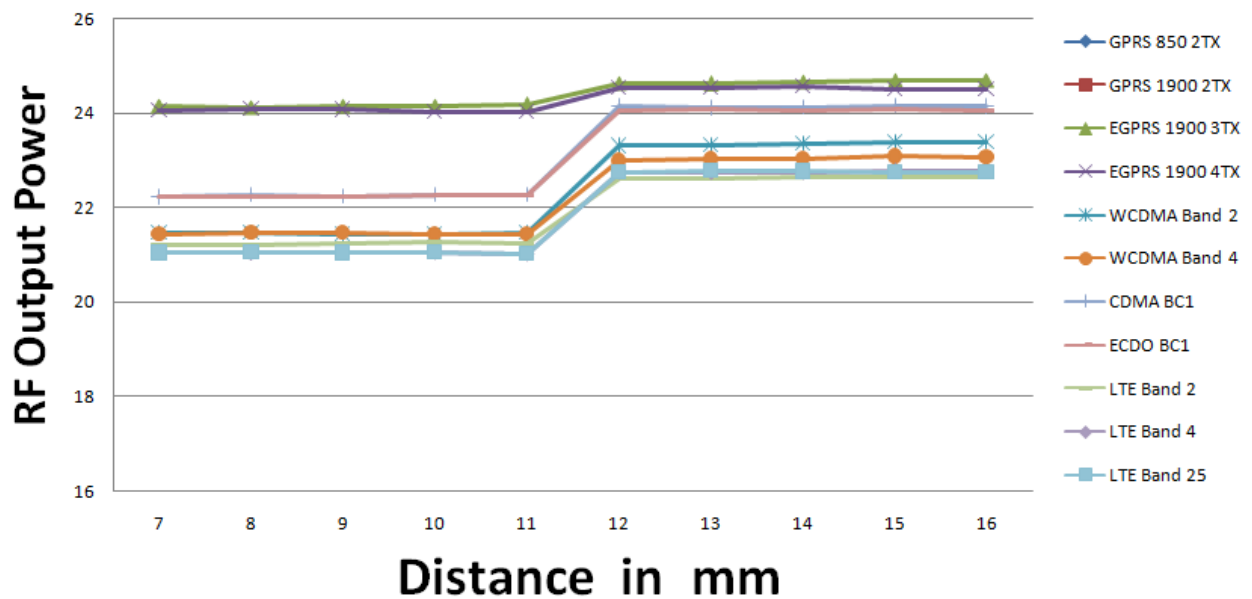
|      | Back       |      | Top        |      |
|------|------------|------|------------|------|
|      | Triggering | Tilt | Triggering | Tilt |
| WWAN | 6mm        | 6mm  | 11mm       | 11mm |
| WLAN | N/A        | N/A  | N/A        | N/A  |

Note : The smallest separation distance determined in each triggering condition minus 1 mm should be used in the SAR measurements.

| Top                                     |       |       |       |       |       |       |       |       |       |       |
|-----------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Distance to DUT vs. Output Power in dBm |       |       |       |       |       |       |       |       |       |       |
| Distance (mm)                           | 2     | 3     | 4     | 5     | 6     | 7     | 8     | 9     | 10    | 11    |
| GPRS 850 2TX                            | 29.55 | 29.62 | 29.57 | 29.51 | 29.56 | 31.68 | 31.64 | 31.66 | 31.63 | 31.61 |
| GPRS 1900 2TX                           | 27.73 | 27.71 | 27.69 | 27.68 | 27.66 | 29.31 | 29.35 | 29.33 | 29.34 | 29.31 |
| EGPRS 1900 3TX                          | 24.18 | 24.17 | 24.16 | 24.18 | 24.15 | 24.64 | 24.61 | 24.68 | 24.73 | 24.65 |
| EGPRS 1900 4TX                          | 24.04 | 24.08 | 24.02 | 23.99 | 23.95 | 24.52 | 24.58 | 24.61 | 24.53 | 24.55 |
| WCDMA Band 2                            | 21.42 | 21.47 | 21.48 | 21.43 | 21.45 | 23.36 | 23.34 | 23.38 | 23.41 | 23.43 |
| WCDMA Band 4                            | 21.43 | 21.4  | 21.38 | 21.39 | 21.41 | 22.94 | 23.03 | 23.14 | 23.07 | 23.16 |
| CDMA BC1                                | 22.26 | 22.28 | 22.27 | 22.25 | 22.26 | 24.13 | 24.09 | 24.06 | 24.01 | 24.07 |
| ECDO BC1                                | 22.24 | 22.25 | 22.23 | 22.24 | 22.22 | 24.08 | 24.06 | 24.09 | 24.07 | 24.06 |
| LTE Band 2                              | 21.24 | 21.23 | 21.22 | 21.21 | 21.23 | 22.64 | 22.62 | 22.65 | 22.68 | 22.73 |
| LTE Band 4                              | 21.06 | 21.04 | 21.07 | 21.03 | 21.02 | 22.75 | 22.77 | 22.79 | 22.78 | 22.77 |
| LTE Band 25                             | 21.03 | 21.08 | 21.05 | 21.07 | 21.04 | 22.78 | 22.82 | 22.81 | 22.78 | 22.77 |



| Back                                    |       |       |       |       |       |       |       |       |       |       |
|-----------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Distance to DUT vs. Output Power in dBm |       |       |       |       |       |       |       |       |       |       |
| Distance (mm)                           | 7     | 8     | 9     | 10    | 11    | 12    | 13    | 14    | 15    | 16    |
| GPRS 850 2TX                            | 29.5  | 29.51 | 29.53 | 29.51 | 29.54 | 31.66 | 31.62 | 31.67 | 31.64 | 31.63 |
| GPRS 1900 2TX                           | 27.69 | 27.68 | 27.68 | 27.66 | 27.64 | 29.28 | 29.33 | 29.31 | 29.32 | 29.32 |
| EGPRS 1900 3TX                          | 24.16 | 24.13 | 24.15 | 24.15 | 24.17 | 24.63 | 24.62 | 24.67 | 24.69 | 24.69 |
| EGPRS 1900 4TX                          | 24.06 | 24.1  | 24.08 | 24.02 | 24.03 | 24.54 | 24.53 | 24.58 | 24.51 | 24.51 |
| WCDMA Band 2                            | 21.47 | 21.46 | 21.43 | 21.44 | 21.46 | 23.31 | 23.33 | 23.35 | 23.38 | 23.39 |
| WCDMA Band 4                            | 21.44 | 21.47 | 21.46 | 21.43 | 21.44 | 22.99 | 23.02 | 23.04 | 23.08 | 23.07 |
| CDMA BC1                                | 22.22 | 22.26 | 22.24 | 22.26 | 22.27 | 24.15 | 24.11 | 24.13 | 24.15 | 24.14 |
| ECDO BC1                                | 22.22 | 22.24 | 22.24 | 22.26 | 22.25 | 24.06 | 24.08 | 24.07 | 24.08 | 24.07 |
| LTE Band 2                              | 21.21 | 21.22 | 21.24 | 21.26 | 21.24 | 22.61 | 22.63 | 22.64 | 22.66 | 22.66 |
| LTE Band 4                              | 21.06 | 21.04 | 21.05 | 21.06 | 21.03 | 22.76 | 22.74 | 22.75 | 22.77 | 22.78 |
| LTE Band 25                             | 21.04 | 21.06 | 21.04 | 21.05 | 21.02 | 22.74 | 22.78 | 22.77 | 22.75 | 22.75 |



## 10. Test Results

### 10.1 SAR Test Results Summary

| SAR MEASUREMENT                                                                                                                                                                                                                                                                    |               |              |           |       |                           |                  |               |                   |                 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|--------------|-----------|-------|---------------------------|------------------|---------------|-------------------|-----------------|
| Liquid Temperature (°C): 20.8 ±2                                                                                                                                                                                                                                                   |               |              |           |       | Relative Humidity (%): 54 |                  |               |                   |                 |
| Ambient Temperature (°C): 21.9 ±2                                                                                                                                                                                                                                                  |               |              |           |       | Depth of Liquid (cm): >15 |                  |               |                   |                 |
| Test Mode: GSM 850 (GPRS 2Slot)                                                                                                                                                                                                                                                    |               |              |           |       |                           |                  |               |                   |                 |
| Test Position<br>Body                                                                                                                                                                                                                                                              | Pwr<br>On-Off | Dist<br>(mm) | Frequency |       | Conducted Power (dBm)     |                  | SAR 1g (W/Kg) |                   | Limit<br>(W/kg) |
|                                                                                                                                                                                                                                                                                    |               |              | Channel   | MHz   | Measurement               | Tune-up<br>Limit | Measurement   | Tune-up<br>Scaled |                 |
| Back                                                                                                                                                                                                                                                                               | ON            | 0            | 189       | 836.4 | 29.52                     | 31.5             | 0.446         | 0.704             | 1.6             |
| Top                                                                                                                                                                                                                                                                                | ON            | 0            | 128       | 824.2 | 29.52                     | 31.5             | 0.680         | 1.073             | 1.6             |
| Top                                                                                                                                                                                                                                                                                | ON            | 0            | 189       | 836.4 | 29.52                     | 31.5             | 0.634         | 1.000             | 1.6             |
| Top                                                                                                                                                                                                                                                                                | ON            | 0            | 251       | 848.8 | 29.82                     | 31.5             | 0.710         | 1.045             | 1.6             |
| Back                                                                                                                                                                                                                                                                               | OFF           | 5            | 128       | 824.2 | 31.82                     | 33               | 0.756         | 0.992             | 1.6             |
| Back                                                                                                                                                                                                                                                                               | OFF           | 5            | 189       | 836.4 | 31.86                     | 33               | 0.767         | 0.997             | 1.6             |
| Back                                                                                                                                                                                                                                                                               | OFF           | 5            | 251       | 848.8 | 31.84                     | 33               | 0.786         | 1.027             | 1.6             |
| Top                                                                                                                                                                                                                                                                                | OFF           | 10           | 189       | 836.4 | 31.86                     | 33               | 0.530         | 0.689             | 1.6             |
| Right-Side                                                                                                                                                                                                                                                                         | OFF           | 0            | 189       | 836.4 | 31.86                     | 33               | 0.065         | 0.085             | 1.6             |
| Note: (1)When the reported SAR of the Mid channel for the exposure configuration is ≤ 0.8 W/kg, no further SAR testing is required in other channel.<br>(2)We have already evaluated Right side in sensor “off” on 0mm , so don’t need evaluated Right side in sensor “on” on 0mm. |               |              |           |       |                           |                  |               |                   |                 |

| SAR MEASUREMENT                                                                                                                                                                                                                                                                    |               |              |           |        |                           |                  |               |                   |                 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|--------------|-----------|--------|---------------------------|------------------|---------------|-------------------|-----------------|
| Liquid Temperature (°C): 20.1 ±2                                                                                                                                                                                                                                                   |               |              |           |        | Relative Humidity (%): 55 |                  |               |                   |                 |
| Ambient Temperature (°C): 21.8 ±2                                                                                                                                                                                                                                                  |               |              |           |        | Depth of Liquid (cm): >15 |                  |               |                   |                 |
| Test Mode: PCS 1900 (GPRS 2Slot)                                                                                                                                                                                                                                                   |               |              |           |        |                           |                  |               |                   |                 |
| Test Position<br>Body                                                                                                                                                                                                                                                              | Pwr<br>On-Off | Dist<br>(mm) | Frequency |        | Conducted Power (dBm)     |                  | SAR 1g (W/Kg) |                   | Limit<br>(W/kg) |
|                                                                                                                                                                                                                                                                                    |               |              | Channel   | MHz    | Measurement               | Tune-up<br>Limit | Measurement   | Tune-up<br>Scaled |                 |
| Back                                                                                                                                                                                                                                                                               | ON            | 0            | 512       | 1850.2 | 27.56                     | 29               | 0.562         | 0.783             | 1.6             |
| Back                                                                                                                                                                                                                                                                               | ON            | 0            | 661       | 1880   | 27.75                     | 29               | 0.619         | 0.825             | 1.6             |
| Back                                                                                                                                                                                                                                                                               | ON            | 0            | 810       | 1909.8 | 27.53                     | 29               | 0.663         | 0.930             | 1.6             |
| Top                                                                                                                                                                                                                                                                                | ON            | 0            | 512       | 1850.2 | 27.56                     | 29               | 0.697         | 0.971             | 1.6             |
| Top                                                                                                                                                                                                                                                                                | ON            | 0            | 661       | 1880   | 27.75                     | 29               | 0.674         | 0.899             | 1.6             |
| Top                                                                                                                                                                                                                                                                                | ON            | 0            | 810       | 1909.8 | 27.53                     | 29               | 0.701         | 0.983             | 1.6             |
| Back                                                                                                                                                                                                                                                                               | OFF           | 5            | 661       | 1880   | 29.29                     | 30               | 0.677         | 0.797             | 1.6             |
| Top                                                                                                                                                                                                                                                                                | OFF           | 10           | 661       | 1880   | 29.29                     | 30               | 0.479         | 0.564             | 1.6             |
| Right-Side                                                                                                                                                                                                                                                                         | OFF           | 0            | 661       | 1880   | 29.29                     | 30               | 0.258         | 0.304             | 1.6             |
| Note: (1)When the reported SAR of the Mid channel for the exposure configuration is ≤ 0.8 W/kg, no further SAR testing is required in other channel.<br>(2)We have already evaluated Right side in sensor “off” on 0mm , so don’t need evaluated Right side in sensor “on” on 0mm. |               |              |           |        |                           |                  |               |                   |                 |

| SAR MEASUREMENT                                                                                                                                                                                                                                                                    |               |              |           |        |                       |                           |               |                   |                 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|--------------|-----------|--------|-----------------------|---------------------------|---------------|-------------------|-----------------|
| Liquid Temperature (°C): 20.1 ±2                                                                                                                                                                                                                                                   |               |              |           |        |                       | Relative Humidity (%): 55 |               |                   |                 |
| Ambient Temperature (°C): 21.8 ±2                                                                                                                                                                                                                                                  |               |              |           |        |                       | Depth of Liquid (cm): >15 |               |                   |                 |
| Test Mode: WCDMA RMC Band 2                                                                                                                                                                                                                                                        |               |              |           |        |                       |                           |               |                   |                 |
| Test Position<br>Body                                                                                                                                                                                                                                                              | Pwr<br>On-Off | Dist<br>(mm) | Frequency |        | Conducted Power (dBm) |                           | SAR 1g (W/Kg) |                   | Limit<br>(W/kg) |
|                                                                                                                                                                                                                                                                                    |               |              | Channel   | MHz    | Measurement           | Tune-up<br>Limit          | Measurement   | Tune-up<br>Scaled |                 |
| Back                                                                                                                                                                                                                                                                               | ON            | 0            | 9400      | 1880   | 21.43                 | 23                        | 0.554         | 0.795             | 1.6             |
| Top                                                                                                                                                                                                                                                                                | ON            | 0            | 9262      | 1852.4 | 21.22                 | 23                        | 0.679         | 1.023             | 1.6             |
| Top                                                                                                                                                                                                                                                                                | ON            | 0            | 9400      | 1880   | 21.43                 | 23                        | 0.600         | 0.861             | 1.6             |
| Top                                                                                                                                                                                                                                                                                | ON            | 0            | 9538      | 1907.6 | 21.52                 | 23                        | 0.611         | 0.859             | 1.6             |
| Back                                                                                                                                                                                                                                                                               | OFF           | 5            | 9262      | 1852.4 | 23.43                 | 24                        | 0.751         | 0.856             | 1.6             |
| Back                                                                                                                                                                                                                                                                               | OFF           | 5            | 9400      | 1880   | 23.33                 | 24                        | 0.743         | 0.867             | 1.6             |
| Back                                                                                                                                                                                                                                                                               | OFF           | 5            | 9538      | 1907.6 | 23.52                 | 24                        | 0.596         | 0.666             | 1.6             |
| Top                                                                                                                                                                                                                                                                                | OFF           | 10           | 9400      | 1880   | 23.33                 | 24                        | 0.491         | 0.573             | 1.6             |
| Right-Side                                                                                                                                                                                                                                                                         | OFF           | 0            | 9400      | 1880   | 23.33                 | 24                        | 0.267         | 0.312             | 1.6             |
| Note: (1)When the reported SAR of the Mid channel for the exposure configuration is ≤ 0.8 W/kg, no further SAR testing is required in other channel.<br>(2)We have already evaluated Right side in sensor “off” on 0mm , so don’t need evaluated Right side in sensor “on” on 0mm. |               |              |           |        |                       |                           |               |                   |                 |

| SAR MEASUREMENT                                                                                                                                      |               |              |           |        |                       |                           |               |                   |                 |
|------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|--------------|-----------|--------|-----------------------|---------------------------|---------------|-------------------|-----------------|
| Liquid Temperature (°C): 20.3 ±2                                                                                                                     |               |              |           |        |                       | Relative Humidity (%): 52 |               |                   |                 |
| Ambient Temperature (°C): 21.5 ±2                                                                                                                    |               |              |           |        |                       | Depth of Liquid (cm): >15 |               |                   |                 |
| Test Mode: WCDMA RMC Band 4                                                                                                                          |               |              |           |        |                       |                           |               |                   |                 |
| Test<br>Position<br>Body                                                                                                                             | Pwr<br>On-Off | Dist<br>(mm) | Frequency |        | Conducted Power (dBm) |                           | SAR 1g (W/Kg) |                   | Limit<br>(W/kg) |
|                                                                                                                                                      |               |              | Channel   | MHz    | Measurement           | Tune-up<br>Limit          | Measurement   | Tune-up<br>Scaled |                 |
| Back                                                                                                                                                 | ON            | 0            | 1413      | 1732.6 | 21.47                 | 23                        | 0.543         | 0.772             | 1.6             |
| Top                                                                                                                                                  | ON            | 0            | 1312      | 1712.4 | 21.5                  | 23                        | 0.735         | 1.038             | 1.6             |
| Top                                                                                                                                                  | ON            | 0            | 1413      | 1732.6 | 21.47                 | 23                        | 0.701         | 0.997             | 1.6             |
| Top                                                                                                                                                  | ON            | 0            | 1513      | 1752.6 | 21.51                 | 23                        | 0.729         | 1.027             | 1.6             |
| Back                                                                                                                                                 | OFF           | 5            | 1413      | 1732.6 | 23.12                 | 24                        | 0.619         | 0.758             | 1.6             |
| Top                                                                                                                                                  | OFF           | 10           | 1413      | 1732.6 | 23.12                 | 24                        | 0.551         | 0.675             | 1.6             |
| Right-Side                                                                                                                                           | OFF           | 0            | 1413      | 1732.6 | 23.12                 | 24                        | 0.336         | 0.411             | 1.6             |
| Note: (1)When the reported SAR of the Mid channel for the exposure configuration is ≤ 0.8 W/kg, no further SAR testing is required in other channel. |               |              |           |        |                       |                           |               |                   |                 |
| (2)We have already evaluated Right side in sensor “off” on 0mm , so don’t need evaluated Right side in sensor “on” on 0mm.                           |               |              |           |        |                       |                           |               |                   |                 |

| SAR MEASUREMENT                                                                                                                                                                                                                                                                    |               |              |           |       |                       |                           |               |                   |                 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|--------------|-----------|-------|-----------------------|---------------------------|---------------|-------------------|-----------------|
| Liquid Temperature (°C): 20.3 ±2                                                                                                                                                                                                                                                   |               |              |           |       |                       | Relative Humidity (%): 52 |               |                   |                 |
| Ambient Temperature (°C): 21.5 ±2                                                                                                                                                                                                                                                  |               |              |           |       |                       | Depth of Liquid (cm): >15 |               |                   |                 |
| Test Mode: WCDMA RMC Band 5                                                                                                                                                                                                                                                        |               |              |           |       |                       |                           |               |                   |                 |
| Test Position<br>Body                                                                                                                                                                                                                                                              | Pwr<br>On-Off | Dist<br>(mm) | Frequency |       | Conducted Power (dBm) |                           | SAR 1g (W/Kg) |                   | Limit<br>(W/kg) |
|                                                                                                                                                                                                                                                                                    |               |              | Channel   | MHz   | Measurement           | Tune-up<br>Limit          | Measurement   | Tune-up<br>Scaled |                 |
| Back                                                                                                                                                                                                                                                                               | OFF           | 0            | 4183      | 836.6 | 23.11                 | 24                        | 0.465         | 0.571             | 1.6             |
| Top                                                                                                                                                                                                                                                                                | OFF           | 0            | 4183      | 836.6 | 23.11                 | 24                        | 0.635         | 0.779             | 1.6             |
| Right-Side                                                                                                                                                                                                                                                                         | OFF           | 0            | 4183      | 836.6 | 23.11                 | 24                        | 0.035         | 0.043             | 1.6             |
| Note: (1)When the reported SAR of the Mid channel for the exposure configuration is ≤ 0.8 W/kg, no further SAR testing is required in other channel.<br>(2)We have already evaluated Right side in sensor “off” on 0mm , so don’t need evaluated Right side in sensor “on” on 0mm. |               |              |           |       |                       |                           |               |                   |                 |

| SAR MEASUREMENT                                                                                                                                                                                                                                                                    |               |              |           |        |                       |                           |               |                   |                 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|--------------|-----------|--------|-----------------------|---------------------------|---------------|-------------------|-----------------|
| Liquid Temperature (°C): 20.8 ±2                                                                                                                                                                                                                                                   |               |              |           |        |                       | Relative Humidity (%): 54 |               |                   |                 |
| Ambient Temperature (°C): 21.9 ±2                                                                                                                                                                                                                                                  |               |              |           |        |                       | Depth of Liquid (cm): >15 |               |                   |                 |
| Test Mode: CDMA BC0                                                                                                                                                                                                                                                                |               |              |           |        |                       |                           |               |                   |                 |
| Test<br>Position<br>Body                                                                                                                                                                                                                                                           | Pwr<br>On-Off | Dist<br>(mm) | Frequency |        | Conducted Power (dBm) |                           | SAR 1g (W/Kg) |                   | Limit<br>(W/kg) |
|                                                                                                                                                                                                                                                                                    |               |              | Channel   | MHz    | Measurement           | Tune-up<br>Limit          | Measurement   | Tune-up<br>Scaled |                 |
| Back                                                                                                                                                                                                                                                                               | OFF           | 0            | 384       | 836.52 | 23.84                 | 24.5                      | 0.593         | 0.690             | 1.6             |
| Top                                                                                                                                                                                                                                                                                | OFF           | 0            | 1013      | 824.7  | 23.78                 | 24.5                      | 0.797         | 0.941             | 1.6             |
| Top                                                                                                                                                                                                                                                                                | OFF           | 0            | 384       | 836.52 | 23.84                 | 24.5                      | 0.868         | 1.010             | 1.6             |
| Top                                                                                                                                                                                                                                                                                | OFF           | 0            | 777       | 848.31 | 23.56                 | 24.5                      | 0.691         | 0.858             | 1.6             |
| Right-Side                                                                                                                                                                                                                                                                         | OFF           | 0            | 384       | 836.52 | 23.84                 | 24.5                      | 0.047         | 0.055             | 1.6             |
| Note: (1)When the reported SAR of the Mid channel for the exposure configuration is ≤ 0.8 W/kg, no further SAR testing is required in other channel.<br>(2)We have already evaluated Right side in sensor “off” on 0mm , so don’t need evaluated Right side in sensor “on” on 0mm. |               |              |           |        |                       |                           |               |                   |                 |



| SAR MEASUREMENT                                                                                                                                                                                                                                                                    |               |              |           |         |                       |                           |               |                   |                 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|--------------|-----------|---------|-----------------------|---------------------------|---------------|-------------------|-----------------|
| Liquid Temperature (°C): 20.1 ±2                                                                                                                                                                                                                                                   |               |              |           |         |                       | Relative Humidity (%): 55 |               |                   |                 |
| Ambient Temperature (°C): 21.8 ±2                                                                                                                                                                                                                                                  |               |              |           |         |                       | Depth of Liquid (cm): >15 |               |                   |                 |
| Test Mode: CDMA BC1                                                                                                                                                                                                                                                                |               |              |           |         |                       |                           |               |                   |                 |
| Test Position<br>Body                                                                                                                                                                                                                                                              | Pwr<br>On-Off | Dist<br>(mm) | Frequency |         | Conducted Power (dBm) |                           | SAR 1g (W/Kg) |                   | Limit<br>(W/kg) |
|                                                                                                                                                                                                                                                                                    |               |              | Channel   | MHz     | Measurement           | Tune-up<br>Limit          | Measurement   | Tune-up<br>Scaled |                 |
| Back                                                                                                                                                                                                                                                                               | ON            | 0            | 25        | 1851.25 | 22.14                 | 23.5                      | 0.716         | 0.979             | 1.6             |
| Back                                                                                                                                                                                                                                                                               | ON            | 0            | 600       | 1880    | 22.28                 | 23.5                      | 0.726         | 0.961             | 1.6             |
| Back                                                                                                                                                                                                                                                                               | ON            | 0            | 1175      | 1908.75 | 22.25                 | 23.5                      | 0.654         | 0.872             | 1.6             |
| Top                                                                                                                                                                                                                                                                                | ON            | 0            | 25        | 1851.25 | 22.14                 | 23.5                      | 0.800         | 1.094             | 1.6             |
| Top                                                                                                                                                                                                                                                                                | ON            | 0            | 600       | 1880    | 22.28                 | 23.5                      | 0.759         | 1.005             | 1.6             |
| Top                                                                                                                                                                                                                                                                                | ON            | 0            | 1175      | 1908.75 | 22.25                 | 23.5                      | 0.703         | 0.937             | 1.6             |
| Back                                                                                                                                                                                                                                                                               | OFF           | 5            | 25        | 1851.25 | 24.12                 | 24.5                      | 1.020         | 1.113             | 1.6             |
| Back                                                                                                                                                                                                                                                                               | OFF           | 5            | 600       | 1880    | 23.63                 | 24.5                      | 0.975         | 1.191             | 1.6             |
| Back                                                                                                                                                                                                                                                                               | OFF           | 5            | 1175      | 1908.75 | 23.88                 | 24.5                      | 0.716         | 0.826             | 1.6             |
| Top                                                                                                                                                                                                                                                                                | OFF           | 10           | 600       | 1880    | 23.63                 | 24.5                      | 0.607         | 0.742             | 1.6             |
| Right-Side                                                                                                                                                                                                                                                                         | OFF           | 0            | 600       | 1880    | 23.63                 | 24.5                      | 0.327         | 0.400             | 1.6             |
| Note: (1)When the reported SAR of the Mid channel for the exposure configuration is ≤ 0.8 W/kg, no further SAR testing is required in other channel.<br>(2)We have already evaluated Right side in sensor “off” on 0mm , so don’t need evaluated Right side in sensor “on” on 0mm. |               |              |           |         |                       |                           |               |                   |                 |

| SAR MEASUREMENT                                                                                                                                                                                                                                                                    |            |           |           |        |                       |                           |               |                |              |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-----------|-----------|--------|-----------------------|---------------------------|---------------|----------------|--------------|
| Liquid Temperature (°C): 20.8 ±2                                                                                                                                                                                                                                                   |            |           |           |        |                       | Relative Humidity (%): 54 |               |                |              |
| Ambient Temperature (°C): 21.9 ±2                                                                                                                                                                                                                                                  |            |           |           |        |                       | Depth of Liquid (cm): >15 |               |                |              |
| Test Mode: CDMA BC10                                                                                                                                                                                                                                                               |            |           |           |        |                       |                           |               |                |              |
| Test Position Body                                                                                                                                                                                                                                                                 | Pwr On-Off | Dist (mm) | Frequency |        | Conducted Power (dBm) |                           | SAR 1g (W/Kg) |                | Limit (W/kg) |
|                                                                                                                                                                                                                                                                                    |            |           | Channel   | MHz    | Measurement           | Tune-up Limit             | Measurement   | Tune-up Scaled |              |
| Back                                                                                                                                                                                                                                                                               | OFF        | 0         | 580       | 820.5  | 23.56                 | 24.5                      | 0.569         | 0.707          | 1.6          |
| Top                                                                                                                                                                                                                                                                                | OFF        | 0         | 476       | 817.95 | 23.72                 | 24.5                      | 0.748         | 0.895          | 1.6          |
| Top                                                                                                                                                                                                                                                                                | OFF        | 0         | 580       | 820.5  | 23.56                 | 24.5                      | 0.742         | 0.921          | 1.6          |
| Top                                                                                                                                                                                                                                                                                | OFF        | 0         | 670       | 822.75 | 23.6                  | 24.5                      | 0.778         | 0.957          | 1.6          |
| Right-Side                                                                                                                                                                                                                                                                         | OFF        | 0         | 580       | 820.5  | 23.56                 | 24.5                      | 0.045         | 0.056          | 1.6          |
| Note: (1)When the reported SAR of the Mid channel for the exposure configuration is ≤ 0.8 W/kg, no further SAR testing is required in other channel.<br>(2)We have already evaluated Right side in sensor “off” on 0mm , so don’t need evaluated Right side in sensor “on” on 0mm. |            |           |           |        |                       |                           |               |                |              |

| SAR MEASUREMENT                                                                                                                                      |               |              |           |        |                       |                           |               |                   |                 |
|------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|--------------|-----------|--------|-----------------------|---------------------------|---------------|-------------------|-----------------|
| Liquid Temperature (°C): 20.8 ±2                                                                                                                     |               |              |           |        |                       | Relative Humidity (%): 54 |               |                   |                 |
| Ambient Temperature (°C): 21.9 ±2                                                                                                                    |               |              |           |        |                       | Depth of Liquid (cm): >15 |               |                   |                 |
| Test Mode: 1xEVDO BC0                                                                                                                                |               |              |           |        |                       |                           |               |                   |                 |
| Test Position<br>Body                                                                                                                                | Pwr<br>On-Off | Dist<br>(mm) | Frequency |        | Conducted Power (dBm) |                           | SAR 1g (W/Kg) |                   | Limit<br>(W/kg) |
|                                                                                                                                                      |               |              | Channel   | MHz    | Measurement           | Tune-up<br>Limit          | Measurement   | Tune-up<br>Scaled |                 |
| Back                                                                                                                                                 | OFF           | 0            | 384       | 836.52 | 23.87                 | 24.5                      | 0.590         | 0.682             | 1.6             |
| Top                                                                                                                                                  | OFF           | 0            | 1013      | 824.7  | 23.8                  | 24.5                      | 0.823         | 0.967             | 1.6             |
| Top                                                                                                                                                  | OFF           | 0            | 384       | 836.52 | 23.87                 | 24.5                      | 0.858         | 0.992             | 1.6             |
| Top                                                                                                                                                  | OFF           | 0            | 777       | 848.31 | 23.54                 | 24.5                      | 0.698         | 0.871             | 1.6             |
| Right-Side                                                                                                                                           | OFF           | 0            | 384       | 836.52 | 23.87                 | 24.5                      | 0.047         | 0.054             | 1.6             |
| Note: (1)When the reported SAR of the Mid channel for the exposure configuration is ≤ 0.8 W/kg, no further SAR testing is required in other channel. |               |              |           |        |                       |                           |               |                   |                 |
| (2)We have already evaluated Right side in sensor “off” on 0mm , so don’t need evaluated Right side in sensor “on” on 0mm.                           |               |              |           |        |                       |                           |               |                   |                 |

| SAR MEASUREMENT                                                                                                                                      |            |           |           |         |                       |                           |               |                |              |
|------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-----------|-----------|---------|-----------------------|---------------------------|---------------|----------------|--------------|
| Liquid Temperature (°C): 20.1 ±2                                                                                                                     |            |           |           |         |                       | Relative Humidity (%): 55 |               |                |              |
| Ambient Temperature (°C): 21.8 ±2                                                                                                                    |            |           |           |         |                       | Depth of Liquid (cm): >15 |               |                |              |
| Test Mode: 1xEVDO BC1                                                                                                                                |            |           |           |         |                       |                           |               |                |              |
| Test Position Body                                                                                                                                   | Pwr On-Off | Dist (mm) | Frequency |         | Conducted Power (dBm) |                           | SAR 1g (W/Kg) |                | Limit (W/kg) |
|                                                                                                                                                      |            |           | Channel   | MHz     | Measurement           | Tune-up Limit             | Measurement   | Tune-up Scaled |              |
| Back                                                                                                                                                 | ON         | 0         | 25        | 1851.25 | 22.12                 | 23.5                      | 0.711         | 0.977          | 1.6          |
| Back                                                                                                                                                 | ON         | 0         | 600       | 1880    | 22.24                 | 23.5                      | 0.711         | 0.950          | 1.6          |
| Back                                                                                                                                                 | ON         | 0         | 1175      | 1908.75 | 22.23                 | 23.5                      | 0.653         | 0.875          | 1.6          |
| Top                                                                                                                                                  | ON         | 0         | 25        | 1851.25 | 22.12                 | 23.5                      | 0.796         | 1.094          | 1.6          |
| Top                                                                                                                                                  | ON         | 0         | 600       | 1880    | 22.24                 | 23.5                      | 0.752         | 1.005          | 1.6          |
| Top                                                                                                                                                  | ON         | 0         | 1175      | 1908.75 | 22.23                 | 23.5                      | 0.700         | 0.938          | 1.6          |
| Back                                                                                                                                                 | OFF        | 5         | 25        | 1851.25 | 24.06                 | 24.5                      | 1.020         | 1.129          | 1.6          |
| Back                                                                                                                                                 | OFF        | 5         | 600       | 1880    | 23.63                 | 24.5                      | 0.968         | 1.183          | 1.6          |
| Back                                                                                                                                                 | OFF        | 5         | 1175      | 1908.75 | 23.81                 | 24.5                      | 0.705         | 0.826          | 1.6          |
| Top                                                                                                                                                  | OFF        | 10        | 600       | 1880    | 23.63                 | 24.5                      | 0.601         | 0.734          | 1.6          |
| Right-Side                                                                                                                                           | OFF        | 0         | 600       | 1880    | 23.63                 | 24.5                      | 0.349         | 0.426          | 1.6          |
| Note: (1)When the reported SAR of the Mid channel for the exposure configuration is ≤ 0.8 W/kg, no further SAR testing is required in other channel. |            |           |           |         |                       |                           |               |                |              |
| (2)We have already evaluated Right side in sensor “off” on 0mm , so don’t need evaluated Right side in sensor “on” on 0mm.                           |            |           |           |         |                       |                           |               |                |              |

| SAR MEASUREMENT                                                                                                                                                                                                                                                                    |            |           |           |        |                       |                           |               |                |              |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-----------|-----------|--------|-----------------------|---------------------------|---------------|----------------|--------------|
| Liquid Temperature (°C): 20.8 ±2                                                                                                                                                                                                                                                   |            |           |           |        |                       | Relative Humidity (%): 54 |               |                |              |
| Ambient Temperature (°C): 21.9 ±2                                                                                                                                                                                                                                                  |            |           |           |        |                       | Depth of Liquid (cm): >15 |               |                |              |
| Test Mode: 1xEVDO BC10                                                                                                                                                                                                                                                             |            |           |           |        |                       |                           |               |                |              |
| Test Position Body                                                                                                                                                                                                                                                                 | Pwr On-Off | Dist (mm) | Frequency |        | Conducted Power (dBm) |                           | SAR 1g (W/Kg) |                | Limit (W/kg) |
|                                                                                                                                                                                                                                                                                    |            |           | Channel   | MHz    | Measurement           | Tune-up Limit             | Measurement   | Tune-up Scaled |              |
| Back                                                                                                                                                                                                                                                                               | OFF        | 0         | 580       | 820.5  | 23.54                 | 24.5                      | 0.569         | 0.710          | 1.6          |
| Top                                                                                                                                                                                                                                                                                | OFF        | 0         | 476       | 817.95 | 23.73                 | 24.5                      | 0.742         | 0.886          | 1.6          |
| Top                                                                                                                                                                                                                                                                                | OFF        | 0         | 580       | 820.5  | 23.54                 | 24.5                      | 0.736         | 0.918          | 1.6          |
| Top                                                                                                                                                                                                                                                                                | OFF        | 0         | 670       | 822.75 | 23.62                 | 24.5                      | 0.763         | 0.934          | 1.6          |
| Right-Side                                                                                                                                                                                                                                                                         | OFF        | 0         | 580       | 820.5  | 23.54                 | 24.5                      | 0.045         | 0.056          | 1.6          |
| Note: (1)When the reported SAR of the Mid channel for the exposure configuration is ≤ 0.8 W/kg, no further SAR testing is required in other channel.<br>(2)We have already evaluated Right side in sensor “off” on 0mm , so don’t need evaluated Right side in sensor “on” on 0mm. |            |           |           |        |                       |                           |               |                |              |

| SAR MEASUREMENT                                                                                                                                      |               |              |    |              |           |      |                           |                  |               |                  |                 |
|------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|--------------|----|--------------|-----------|------|---------------------------|------------------|---------------|------------------|-----------------|
| Liquid Temperature (°C): 20.1 ±2                                                                                                                     |               |              |    |              |           |      | Relative Humidity (%): 55 |                  |               |                  |                 |
| Ambient Temperature (°C): 21.8 ±2                                                                                                                    |               |              |    |              |           |      | Depth of Liquid (cm): >15 |                  |               |                  |                 |
| Test Mode: LTE Band 2-QPSK(20M)                                                                                                                      |               |              |    |              |           |      |                           |                  |               |                  |                 |
| Test Position<br>Body                                                                                                                                | Pwr<br>On-Off | Dist<br>(mm) | RB | RB<br>offset | Frequency |      | Conducted Power<br>(dBm)  |                  | SAR 1g (W/Kg) |                  | Limit<br>(W/kg) |
|                                                                                                                                                      |               |              |    |              | Channel   | MHz  | Measurement               | Tune-up<br>Limit | Measurement   | Tune-up<br>Limit |                 |
| Back                                                                                                                                                 | ON            | 0            | 1  | 0            | 18700     | 1860 | 21.72                     | 23               | 0.631         | 0.847            | 1.6             |
| Back                                                                                                                                                 | ON            | 0            | 1  | 0            | 18900     | 1880 | 21.89                     | 23               | 0.614         | 0.793            | 1.6             |
| Back                                                                                                                                                 | ON            | 0            | 1  | 0            | 19100     | 1900 | 21.71                     | 23               | 0.588         | 0.791            | 1.6             |
| Back                                                                                                                                                 | ON            | 0            | 50 | 24           | 18700     | 1860 | 21.54                     | 22               | 0.604         | 0.671            | 1.6             |
| Back                                                                                                                                                 | ON            | 0            | 50 | 24           | 18900     | 1880 | 21.47                     | 22               | 0.577         | 0.652            | 1.6             |
| Back                                                                                                                                                 | ON            | 0            | 50 | 24           | 19100     | 1900 | 21.39                     | 22               | 0.547         | 0.629            | 1.6             |
| Top                                                                                                                                                  | ON            | 0            | 1  | 0            | 18700     | 1860 | 21.72                     | 23               | 0.671         | 0.901            | 1.6             |
| Top                                                                                                                                                  | ON            | 0            | 1  | 0            | 18900     | 1880 | 21.89                     | 23               | 0.657         | 0.848            | 1.6             |
| Top                                                                                                                                                  | ON            | 0            | 1  | 0            | 19100     | 1900 | 21.71                     | 23               | 0.614         | 0.826            | 1.6             |
| Top                                                                                                                                                  | ON            | 0            | 50 | 24           | 18700     | 1860 | 21.54                     | 22               | 0.618         | 0.687            | 1.6             |
| Top                                                                                                                                                  | ON            | 0            | 50 | 24           | 18900     | 1880 | 21.47                     | 22               | 0.615         | 0.698            | 1.6             |
| Top                                                                                                                                                  | ON            | 0            | 50 | 24           | 19100     | 1900 | 21.39                     | 22               | 0.564         | 0.649            | 1.6             |
| Back                                                                                                                                                 | OFF           | 5            | 1  | 0            | 18700     | 1860 | 22.74                     | 24               | 0.701         | 0.937            | 1.6             |
| Back                                                                                                                                                 | OFF           | 5            | 1  | 0            | 18900     | 1880 | 22.86                     | 24               | 0.704         | 0.915            | 1.6             |
| Back                                                                                                                                                 | OFF           | 5            | 1  | 0            | 19100     | 1900 | 22.66                     | 24               | 0.667         | 0.908            | 1.6             |
| Back                                                                                                                                                 | OFF           | 5            | 50 | 24           | 18900     | 1880 | 21.67                     | 23               | 0.533         | 0.724            | 1.6             |
| Top                                                                                                                                                  | OFF           | 10           | 1  | 0            | 18900     | 1880 | 22.86                     | 24               | 0.510         | 0.663            | 1.6             |
| Top                                                                                                                                                  | OFF           | 10           | 50 | 24           | 18900     | 1880 | 21.67                     | 23               | 0.379         | 0.515            | 1.6             |
| Right-Side                                                                                                                                           | OFF           | 0            | 1  | 0            | 18900     | 1880 | 22.86                     | 24               | 0.276         | 0.359            | 1.6             |
| Right-Side                                                                                                                                           | OFF           | 0            | 50 | 24           | 18900     | 1880 | 21.67                     | 23               | 0.209         | 0.284            | 1.6             |
| Note: (1)When the reported SAR of the Mid channel for the exposure configuration is ≤ 0.8 W/kg, no further SAR testing is required in other channel. |               |              |    |              |           |      |                           |                  |               |                  |                 |
| (2)We have already evaluated Right side in sensor “off” on 0mm , so don’t need evaluated Right side in sensor “on” on 0mm.                           |               |              |    |              |           |      |                           |                  |               |                  |                 |

| SAR MEASUREMENT                                                                                                                                      |               |              |    |              |           |        |                          |                           |               |                  |                 |
|------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|--------------|----|--------------|-----------|--------|--------------------------|---------------------------|---------------|------------------|-----------------|
| Liquid Temperature (°C): 20.3 ±2                                                                                                                     |               |              |    |              |           |        |                          | Relative Humidity (%): 52 |               |                  |                 |
| Ambient Temperature (°C): 21.5 ±2                                                                                                                    |               |              |    |              |           |        |                          | Depth of Liquid (cm): >15 |               |                  |                 |
| Test Mode: LTE Band 4-QPSK(20M)                                                                                                                      |               |              |    |              |           |        |                          |                           |               |                  |                 |
| Test Position<br>Body                                                                                                                                | Pwr<br>On-Off | Dist<br>(mm) | RB | RB<br>offset | Frequency |        | Conducted Power<br>(dBm) |                           | SAR 1g (W/Kg) |                  | Limit<br>(W/kg) |
|                                                                                                                                                      |               |              |    |              | Channel   | MHz    | Measurement              | Tune-up<br>Limit          | Measurement   | Tune-up<br>Limit |                 |
| Back                                                                                                                                                 | ON            | 0            | 1  | 99           | 20050     | 1720   | 21.92                    | 23                        | 0.541         | 0.694            | 1.6             |
| Back                                                                                                                                                 | ON            | 0            | 1  | 99           | 20175     | 1732.5 | 22.01                    | 23                        | 0.573         | 0.720            | 1.6             |
| Back                                                                                                                                                 | ON            | 0            | 1  | 99           | 20300     | 1745   | 22.04                    | 23                        | 0.569         | 0.710            | 1.6             |
| Back                                                                                                                                                 | ON            | 0            | 50 | 0            | 20050     | 1720   | 21.56                    | 22                        | 0.463         | 0.512            | 1.6             |
| Back                                                                                                                                                 | ON            | 0            | 50 | 0            | 20175     | 1732.5 | 21.64                    | 22                        | 0.498         | 0.541            | 1.6             |
| Back                                                                                                                                                 | ON            | 0            | 50 | 0            | 20300     | 1745   | 21.82                    | 22                        | 0.541         | 0.564            | 1.6             |
| Top                                                                                                                                                  | ON            | 0            | 1  | 99           | 20050     | 1720   | 21.92                    | 23                        | 0.628         | 0.805            | 1.6             |
| Top                                                                                                                                                  | ON            | 0            | 1  | 99           | 20175     | 1732.5 | 22.01                    | 23                        | 0.697         | 0.875            | 1.6             |
| Top                                                                                                                                                  | ON            | 0            | 1  | 99           | 20300     | 1745   | 22.04                    | 23                        | 0.642         | 0.801            | 1.6             |
| Top                                                                                                                                                  | ON            | 0            | 50 | 0            | 20050     | 1720   | 21.56                    | 22                        | 0.583         | 0.645            | 1.6             |
| Top                                                                                                                                                  | ON            | 0            | 50 | 0            | 20175     | 1732.5 | 21.64                    | 22                        | 0.656         | 0.713            | 1.6             |
| Top                                                                                                                                                  | ON            | 0            | 50 | 0            | 20300     | 1745   | 21.82                    | 22                        | 0.614         | 0.640            | 1.6             |
| Back                                                                                                                                                 | OFF           | 5            | 1  | 99           | 20175     | 1732.5 | 23.05                    | 24                        | 0.575         | 0.716            | 1.6             |
| Back                                                                                                                                                 | OFF           | 5            | 50 | 0            | 20175     | 1732.5 | 21.73                    | 23                        | 0.418         | 0.560            | 1.6             |
| Top                                                                                                                                                  | OFF           | 10           | 1  | 99           | 20175     | 1732.5 | 23.05                    | 24                        | 0.540         | 0.672            | 1.6             |
| Top                                                                                                                                                  | OFF           | 10           | 50 | 0            | 20175     | 1732.5 | 21.73                    | 23                        | 0.397         | 0.532            | 1.6             |
| Right-Side                                                                                                                                           | OFF           | 0            | 1  | 99           | 20175     | 1732.5 | 23.05                    | 24                        | 0.342         | 0.426            | 1.6             |
| Right-Side                                                                                                                                           | OFF           | 0            | 50 | 0            | 20175     | 1732.5 | 21.73                    | 23                        | 0.243         | 0.326            | 1.6             |
| Note: (1)When the reported SAR of the Mid channel for the exposure configuration is ≤ 0.8 W/kg, no further SAR testing is required in other channel. |               |              |    |              |           |        |                          |                           |               |                  |                 |
| (2)We have already evaluated Right side in sensor “off” on 0mm , so don’t need evaluated Right side in sensor “on” on 0mm.                           |               |              |    |              |           |        |                          |                           |               |                  |                 |

| SAR MEASUREMENT                                                                                                                                      |               |              |    |              |           |       |                           |                  |               |                  |                 |
|------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|--------------|----|--------------|-----------|-------|---------------------------|------------------|---------------|------------------|-----------------|
| Liquid Temperature (°C): 20.8 ±2                                                                                                                     |               |              |    |              |           |       | Relative Humidity (%): 54 |                  |               |                  |                 |
| Ambient Temperature (°C): 21.9 ±2                                                                                                                    |               |              |    |              |           |       | Depth of Liquid (cm): >15 |                  |               |                  |                 |
| Test Mode: LTE Band 5-QPSK(20M)                                                                                                                      |               |              |    |              |           |       |                           |                  |               |                  |                 |
| Test Position<br>Body                                                                                                                                | Pwr<br>On-Off | Dist<br>(mm) | RB | RB<br>offset | Frequency |       | Conducted Power<br>(dBm)  |                  | SAR 1g (W/Kg) |                  | Limit<br>(W/kg) |
|                                                                                                                                                      |               |              |    |              | Channel   | MHz   | Measurement               | Tune-up<br>Limit | Measurement   | Tune-up<br>Limit |                 |
| Back                                                                                                                                                 | OFF           | 0            | 1  | 25           | 20525     | 836.5 | 22.42                     | 24               | 0.460         | 0.662            | 1.6             |
| Back                                                                                                                                                 | OFF           | 0            | 25 | 12           | 20525     | 836.5 | 21.41                     | 23               | 0.362         | 0.522            | 1.6             |
| Top                                                                                                                                                  | OFF           | 0            | 1  | 25           | 20450     | 829   | 22.24                     | 24               | 0.623         | 0.934            | 1.6             |
| Top                                                                                                                                                  | OFF           | 0            | 1  | 25           | 20525     | 836.5 | 22.42                     | 24               | 0.635         | 0.914            | 1.6             |
| Top                                                                                                                                                  | OFF           | 0            | 1  | 25           | 20600     | 829   | 22.35                     | 24               | 0.615         | 0.899            | 1.6             |
| Top                                                                                                                                                  | OFF           | 0            | 25 | 12           | 20525     | 836.5 | 21.41                     | 23               | 0.499         | 0.720            | 1.6             |
| Right-Side                                                                                                                                           | OFF           | 0            | 1  | 25           | 20525     | 836.5 | 22.42                     | 24               | 0.031         | 0.045            | 1.6             |
| Right-Side                                                                                                                                           | OFF           | 0            | 25 | 12           | 20525     | 836.5 | 21.41                     | 23               | 0.025         | 0.036            | 1.6             |
| Note: (1)When the reported SAR of the Mid channel for the exposure configuration is ≤ 0.8 W/kg, no further SAR testing is required in other channel. |               |              |    |              |           |       |                           |                  |               |                  |                 |
| (2)We have already evaluated Right side in sensor “off” on 0mm , so don’t need evaluated Right side in sensor “on” on 0mm.                           |               |              |    |              |           |       |                           |                  |               |                  |                 |



| SAR MEASUREMENT                                                                                                                                      |                   |                  |    |                  |           |     |                              |                  |               |                  |                     |
|------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|------------------|----|------------------|-----------|-----|------------------------------|------------------|---------------|------------------|---------------------|
| Liquid Temperature (°C): 21.1 ±2                                                                                                                     |                   |                  |    |                  |           |     | Relative Humidity (%): 53    |                  |               |                  |                     |
| Ambient Temperature (°C): 22.4 ±2                                                                                                                    |                   |                  |    |                  |           |     | Depth of Liquid (cm): >15    |                  |               |                  |                     |
| Test Mode: LTE Band 13-QPSK(10M)                                                                                                                     |                   |                  |    |                  |           |     |                              |                  |               |                  |                     |
| Test<br>Position<br><br>Body                                                                                                                         | Pwr<br><br>On-Off | Dist<br><br>(mm) | RB | RB<br><br>offset | Frequency |     | Conducted Power<br><br>(dBm) |                  | SAR 1g (W/Kg) |                  | Limit<br><br>(W/kg) |
|                                                                                                                                                      |                   |                  |    |                  | Channel   | MHz | Measurement                  | Tune-up<br>Limit | Measurement   | Tune-up<br>Limit |                     |
| Back                                                                                                                                                 | OFF               | 0                | 1  | 25               | 23230     | 782 | 22.54                        | 24               | 0.318         | 0.445            | 1.6                 |
| Back                                                                                                                                                 | OFF               | 0                | 25 | 25               | 23230     | 782 | 21.54                        | 23               | 0.245         | 0.343            | 1.6                 |
| Top                                                                                                                                                  | OFF               | 0                | 1  | 25               | 23230     | 782 | 22.54                        | 24               | 0.376         | 0.526            | 1.6                 |
| Top                                                                                                                                                  | OFF               | 0                | 25 | 25               | 23230     | 782 | 21.54                        | 23               | 0.299         | 0.418            | 1.6                 |
| Right-Side                                                                                                                                           | OFF               | 0                | 1  | 25               | 23230     | 782 | 22.54                        | 24               | 0.024         | 0.034            | 1.6                 |
| Right-Side                                                                                                                                           | OFF               | 0                | 25 | 25               | 23230     | 782 | 21.54                        | 23               | 0.019         | 0.027            | 1.6                 |
| Note: (1)When the reported SAR of the Mid channel for the exposure configuration is ≤ 0.8 W/kg, no further SAR testing is required in other channel. |                   |                  |    |                  |           |     |                              |                  |               |                  |                     |
| (2)We have already evaluated Right side in sensor “off” on 0mm , so don’t need evaluated Right side in sensor “on” on 0mm.                           |                   |                  |    |                  |           |     |                              |                  |               |                  |                     |

| SAR MEASUREMENT                                                                                                                                                                                                                                                                    |               |              |    |              |           |     |                           |                  |               |                  |                 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|--------------|----|--------------|-----------|-----|---------------------------|------------------|---------------|------------------|-----------------|
| Liquid Temperature (°C): 21.1 ±2                                                                                                                                                                                                                                                   |               |              |    |              |           |     | Relative Humidity (%): 53 |                  |               |                  |                 |
| Ambient Temperature (°C): 22.4 ±2                                                                                                                                                                                                                                                  |               |              |    |              |           |     | Depth of Liquid (cm): >15 |                  |               |                  |                 |
| Test Mode: LTE Band 17-QPSK(20M)                                                                                                                                                                                                                                                   |               |              |    |              |           |     |                           |                  |               |                  |                 |
| Test Position<br>Body                                                                                                                                                                                                                                                              | Pwr<br>On-Off | Dist<br>(mm) | RB | RB<br>offset | Frequency |     | Conducted Power<br>(dBm)  |                  | SAR 1g (W/Kg) |                  | Limit<br>(W/kg) |
|                                                                                                                                                                                                                                                                                    |               |              |    |              | Channel   | MHz | Measurement               | Tune-up<br>Limit | Measurement   | Tune-up<br>Limit |                 |
| Back                                                                                                                                                                                                                                                                               | OFF           | 0            | 1  | 25           | 23790     | 710 | 22.54                     | 24               | 0.062         | 0.087            | 1.6             |
| Back                                                                                                                                                                                                                                                                               | OFF           | 0            | 25 | 12           | 23790     | 710 | 21.55                     | 23               | 0.061         | 0.085            | 1.6             |
| Top                                                                                                                                                                                                                                                                                | OFF           | 0            | 1  | 25           | 23790     | 710 | 22.54                     | 24               | 0.081         | 0.113            | 1.6             |
| Top                                                                                                                                                                                                                                                                                | OFF           | 0            | 25 | 12           | 23790     | 710 | 21.55                     | 23               | 0.071         | 0.099            | 1.6             |
| Right-Side                                                                                                                                                                                                                                                                         | OFF           | 0            | 1  | 25           | 23790     | 710 | 22.54                     | 24               | 0.010         | 0.014            | 1.6             |
| Right-Side                                                                                                                                                                                                                                                                         | OFF           | 0            | 25 | 12           | 23790     | 710 | 21.55                     | 23               | 0.010         | 0.013            | 1.6             |
| Note: (1)When the reported SAR of the Mid channel for the exposure configuration is ≤ 0.8 W/kg, no further SAR testing is required in other channel.<br>(2)We have already evaluated Right side in sensor “off” on 0mm , so don’t need evaluated Right side in sensor “on” on 0mm. |               |              |    |              |           |     |                           |                  |               |                  |                 |

| SAR MEASUREMENT                                                                                                                                                                                                                                                                    |               |              |    |              |           |        |                           |                  |               |                  |                 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|--------------|----|--------------|-----------|--------|---------------------------|------------------|---------------|------------------|-----------------|
| Liquid Temperature (°C): 20.1 ±2                                                                                                                                                                                                                                                   |               |              |    |              |           |        | Relative Humidity (%): 55 |                  |               |                  |                 |
| Ambient Temperature (°C): 21.8 ±2                                                                                                                                                                                                                                                  |               |              |    |              |           |        | Depth of Liquid (cm): >15 |                  |               |                  |                 |
| Test Mode: LTE Band 17-QPSK(20M)                                                                                                                                                                                                                                                   |               |              |    |              |           |        |                           |                  |               |                  |                 |
| Test Position<br>Body                                                                                                                                                                                                                                                              | Pwr<br>On-Off | Dist<br>(mm) | RB | RB<br>offset | Frequency |        | Conducted Power<br>(dBm)  |                  | SAR 1g (W/Kg) |                  | Limit<br>(W/kg) |
|                                                                                                                                                                                                                                                                                    |               |              |    |              | Channel   | MHz    | Measurement               | Tune-up<br>Limit | Measurement   | Tune-up<br>Limit |                 |
| Back                                                                                                                                                                                                                                                                               | ON            | 0            | 1  | 49           | 26140     | 1860   | 21.65                     | 23               | 0.637         | 0.869            | 1.6             |
| Back                                                                                                                                                                                                                                                                               | ON            | 0            | 1  | 49           | 26365     | 1882.5 | 21.62                     | 23               | 0.595         | 0.818            | 1.6             |
| Back                                                                                                                                                                                                                                                                               | ON            | 0            | 1  | 49           | 26590     | 1905   | 21.54                     | 23               | 0.559         | 0.782            | 1.6             |
| Back                                                                                                                                                                                                                                                                               | ON            | 0            | 50 | 0            | 26140     | 1860   | 21.36                     | 22               | 0.565         | 0.655            | 1.6             |
| Back                                                                                                                                                                                                                                                                               | ON            | 0            | 50 | 0            | 26365     | 1882.5 | 21.4                      | 22               | 0.567         | 0.651            | 1.6             |
| Back                                                                                                                                                                                                                                                                               | ON            | 0            | 50 | 0            | 26590     | 1905   | 21.23                     | 22               | 0.544         | 0.650            | 1.6             |
| Top                                                                                                                                                                                                                                                                                | ON            | 0            | 1  | 49           | 26140     | 1860   | 21.65                     | 23               | 0.644         | 0.879            | 1.6             |
| Top                                                                                                                                                                                                                                                                                | ON            | 0            | 1  | 49           | 26365     | 1882.5 | 21.62                     | 23               | 0.635         | 0.873            | 1.6             |
| Top                                                                                                                                                                                                                                                                                | ON            | 0            | 1  | 49           | 26590     | 1905   | 21.54                     | 23               | 0.590         | 0.826            | 1.6             |
| Top                                                                                                                                                                                                                                                                                | ON            | 0            | 50 | 0            | 26140     | 1860   | 21.36                     | 22               | 0.610         | 0.707            | 1.6             |
| Top                                                                                                                                                                                                                                                                                | ON            | 0            | 50 | 0            | 26365     | 1882.5 | 21.4                      | 22               | 0.619         | 0.711            | 1.6             |
| Top                                                                                                                                                                                                                                                                                | ON            | 0            | 50 | 0            | 26590     | 1905   | 21.23                     | 22               | 0.572         | 0.683            | 1.6             |
| Back                                                                                                                                                                                                                                                                               | OFF           | 5            | 1  | 49           | 26140     | 1860   | 22.87                     | 24               | 0.706         | 0.916            | 1.6             |
| Back                                                                                                                                                                                                                                                                               | OFF           | 5            | 1  | 49           | 26365     | 1882.5 | 22.87                     | 24               | 0.683         | 0.886            | 1.6             |
| Back                                                                                                                                                                                                                                                                               | OFF           | 5            | 1  | 49           | 26590     | 1905   | 22.87                     | 24               | 0.573         | 0.743            | 1.6             |
| Back                                                                                                                                                                                                                                                                               | OFF           | 5            | 50 | 0            | 26365     | 1882.5 | 21.73                     | 23               | 0.526         | 0.705            | 1.6             |
| Top                                                                                                                                                                                                                                                                                | OFF           | 10           | 1  | 49           | 26365     | 1882.5 | 22.87                     | 24               | 0.492         | 0.638            | 1.6             |
| Top                                                                                                                                                                                                                                                                                | OFF           | 10           | 50 | 0            | 26365     | 1882.5 | 21.73                     | 23               | 0.376         | 0.504            | 1.6             |
| Right-Side                                                                                                                                                                                                                                                                         | OFF           | 0            | 1  | 49           | 26365     | 1882.5 | 22.87                     | 24               | 0.268         | 0.348            | 1.6             |
| Right-Side                                                                                                                                                                                                                                                                         | OFF           | 0            | 50 | 0            | 26365     | 1882.5 | 21.73                     | 23               | 0.210         | 0.281            | 1.6             |
| Note: (1)When the reported SAR of the Mid channel for the exposure configuration is ≤ 0.8 W/kg, no further SAR testing is required in other channel.<br>(2)We have already evaluated Right side in sensor “off” on 0mm , so don’t need evaluated Right side in sensor “on” on 0mm. |               |              |    |              |           |        |                           |                  |               |                  |                 |

## 9.2 Simultaneous Transmission

### 9.2.1 Simultaneous transmission of Wi-Fi and other wireless technologies

According the KDB 447498 D01 Section 4.3.2, the standalone SAR must be estimated according to the following to determine simultaneous transmission SAR test exclusion

$$(max. power of channel, mW)/(min. test separation distance, mm)] \cdot [\sqrt{f(GHz)}/7.5]$$

| Mode | Frequency | Max. power (mW) | Test separation distance,(mm) | Estimated SAR (W/Kg) |
|------|-----------|-----------------|-------------------------------|----------------------|
| BT   | 2441      | 8.82            | 6                             | 0.31                 |

Note : A test separation distance of 5 mm must be applied to determine test exclusion according to the SAR Test Exclusion Threshold requirements

When the sum of SAR is larger than the limit, The ratio is determined by  $(SAR1 + SAR2)^{1.5/R_i}$ , rounded to two decimal digits, and must be  $\leq 0.04$  for all antenna pairs in the configuration to qualify for 1-g SAR test exclusion. The estimation result as below:

### Simultaneous Transmission Summation Scenario with 2.4 GHz WLAN

| Test Position (Body) | Band        | (1)<br>WWAN<br>(W/Kg) | (2)<br>DTS<br>(W/Kg)<br>Main | (3)<br>DTS<br>(W/Kg)<br>Aux | (4)<br>BT<br>(W/Kg) | (1)+(2)          | (1)+(3)          | (1)+(2)+(4)      |
|----------------------|-------------|-----------------------|------------------------------|-----------------------------|---------------------|------------------|------------------|------------------|
|                      |             |                       |                              |                             |                     | $\Sigma$ 1-g SAR | $\Sigma$ 1-g SAR | $\Sigma$ 1-g SAR |
| Back                 | GSM 850     | 1.027                 | 0.072                        | 0.166                       | 0.31                | 1.099            | 1.193            | 1.409            |
|                      | PCS 1900    | 0.896                 | 0.072                        | 0.166                       | 0.31                | 0.968            | 1.062            | 1.278            |
|                      | WCDMA-2     | 0.867                 | 0.072                        | 0.166                       | 0.31                | 0.939            | 1.033            | 1.249            |
|                      | WCDMA-4     | 0.781                 | 0.072                        | 0.166                       | 0.31                | 0.853            | 0.947            | 1.163            |
|                      | WCDMA-5     | 0.571                 | 0.072                        | 0.166                       | 0.31                | 0.643            | 0.737            | 0.953            |
|                      | CDMA-BC0    | 0.682                 | 0.072                        | 0.166                       | 0.31                | 0.754            | 0.848            | 1.064            |
|                      | CDMA-BC1    | 1.191                 | 0.072                        | 0.166                       | 0.31                | 1.263            | 1.357            | 1.573            |
|                      | CDMA-BC10   | 0.707                 | 0.072                        | 0.166                       | 0.31                | 0.779            | 0.873            | 1.089            |
|                      | 1xEVDO-BC0  | 0.682                 | 0.072                        | 0.166                       | 0.31                | 0.754            | 0.848            | 1.064            |
|                      | 1xEVDO-BC1  | 1.183                 | 0.072                        | 0.166                       | 0.31                | 1.255            | 1.349            | 1.565            |
|                      | 1xEVDO-BC10 | 0.710                 | 0.072                        | 0.166                       | 0.31                | 0.782            | 0.876            | 1.092            |
|                      | LTE-2       | 0.937                 | 0.072                        | 0.166                       | 0.31                | 1.009            | 1.103            | 1.319            |
|                      | LTE-4       | 0.809                 | 0.072                        | 0.166                       | 0.31                | 0.881            | 0.975            | 1.191            |
|                      | LTE-5       | 0.662                 | 0.072                        | 0.166                       | 0.31                | 0.734            | 0.828            | 1.044            |
|                      | LTE-13      | 0.445                 | 0.072                        | 0.166                       | 0.31                | 0.517            | 0.611            | 0.827            |
|                      | LTE-17      | 0.087                 | 0.072                        | 0.166                       | 0.31                | 0.159            | 0.253            | 0.469            |
|                      | LTE-25      | 0.916                 | 0.072                        | 0.166                       | 0.31                | 0.988            | 1.082            | 1.298            |

Note: The sum of value is less than 1.6W/Kg, thus simultaneous SAR testing is not need.

### Simultaneous Transmission Summation Scenario with 2.4 GHz WLAN

| Test Position (Body) | Band        | (1)<br>WWAN<br>(W/Kg) | (2)<br>DTS<br>(W/Kg)<br>Main | (3)<br>DTS<br>(W/Kg)<br>Aux | (4)<br>BT<br>(W/Kg) | (1)+(2)          | (1)+(3)          | (1)+(2)+(4)      |
|----------------------|-------------|-----------------------|------------------------------|-----------------------------|---------------------|------------------|------------------|------------------|
|                      |             |                       |                              |                             |                     | $\Sigma$ 1-g SAR | $\Sigma$ 1-g SAR | $\Sigma$ 1-g SAR |
| Top                  | GSM 850     | 1.065                 | N/A                          | 0.182                       | 0.31                | 1.065            | 1.247            | 1.375            |
|                      | PCS 1900    | 0.998                 | N/A                          | 0.182                       | 0.31                | 0.998            | 1.180            | 1.308            |
|                      | WCDMA-2     | 1.035                 | N/A                          | 0.182                       | 0.31                | 1.035            | 1.217            | 1.345            |
|                      | WCDMA-4     | 1.067                 | N/A                          | 0.182                       | 0.31                | 1.067            | 1.249            | 1.377            |
|                      | WCDMA-5     | 0.779                 | N/A                          | 0.182                       | 0.31                | 0.779            | 0.961            | 1.089            |
|                      | CDMA-BC0    | 0.992                 | N/A                          | 0.182                       | 0.31                | 0.992            | 1.174            | 1.302            |
|                      | CDMA-BC1    | 1.094                 | N/A                          | 0.182                       | 0.31                | 1.094            | 1.276            | 1.404            |
|                      | CDMA-BC10   | 0.957                 | N/A                          | 0.182                       | 0.31                | 0.957            | 1.139            | 1.267            |
|                      | 1xEVDO-BC0  | 0.992                 | N/A                          | 0.182                       | 0.31                | 0.992            | 1.174            | 1.302            |
|                      | 1xEVDO-BC1  | 1.094                 | N/A                          | 0.182                       | 0.31                | 1.094            | 1.276            | 1.404            |
|                      | 1xEVDO-BC10 | 0.934                 | N/A                          | 0.182                       | 0.31                | 0.934            | 1.116            | 1.244            |
|                      | LTE-2       | 0.948                 | N/A                          | 0.182                       | 0.31                | 0.948            | 1.130            | 1.258            |
|                      | LTE-4       | 0.985                 | N/A                          | 0.182                       | 0.31                | 0.985            | 1.167            | 1.295            |
|                      | LTE-5       | 0.934                 | N/A                          | 0.182                       | 0.31                | 0.934            | 1.116            | 1.244            |
|                      | LTE-13      | 0.526                 | N/A                          | 0.182                       | 0.31                | 0.526            | 0.708            | 0.836            |
|                      | LTE-17      | 0.113                 | N/A                          | 0.182                       | 0.31                | 0.113            | 0.295            | 0.423            |
|                      | LTE-25      | 0.910                 | N/A                          | 0.182                       | 0.31                | 0.910            | 1.092            | 1.220            |

Note : (1) The sum of value is less than 1.6W/Kg, thus simultaneous SAR testing is not need.

(2) WLAN (Main) is compliance for the SAR Test Exclusion Threshold calculations.

### Simultaneous Transmission Summation Scenario with 5 GHz WLAN

| Test Position (Body) | Band        | (1)<br>WWAN<br>(W/Kg) | (2)<br>U-NII<br>(W/Kg)<br>Main | (3)<br>U-NII<br>(W/Kg)<br>Aux | (4)<br>BT<br>(W/Kg) | (1)+(2)<br>$\Sigma$ 1-g<br>SAR | (1)+(3)<br>$\Sigma$ 1-g<br>SAR | (1)+(2)+(4)<br>$\Sigma$ 1-g SAR |
|----------------------|-------------|-----------------------|--------------------------------|-------------------------------|---------------------|--------------------------------|--------------------------------|---------------------------------|
|                      |             |                       |                                |                               |                     |                                |                                |                                 |
| Back                 | GSM 850     | 1.027                 | 0.084                          | 0.442                         | 0.31                | 1.111                          | 1.469                          | 1.421                           |
|                      | PCS 1900    | 0.896                 | 0.084                          | 0.442                         | 0.31                | 0.98                           | 1.338                          | 1.290                           |
|                      | WCDMA-2     | 0.867                 | 0.084                          | 0.442                         | 0.31                | 0.951                          | 1.309                          | 1.261                           |
|                      | WCDMA-4     | 0.781                 | 0.084                          | 0.442                         | 0.31                | 0.865                          | 1.223                          | 1.175                           |
|                      | WCDMA-5     | 0.571                 | 0.084                          | 0.442                         | 0.31                | 0.655                          | 1.013                          | 0.965                           |
|                      | CDMA-BC0    | 0.682                 | 0.084                          | 0.442                         | 0.31                | 0.766                          | 1.124                          | 1.076                           |
|                      | CDMA-BC1    | 1.191                 | 0.084                          | 0.442                         | 0.31                | 1.275                          | 1.633 <sup>*2</sup>            | 1.585                           |
|                      | CDMA-BC10   | 0.707                 | 0.084                          | 0.442                         | 0.31                | 0.791                          | 1.149                          | 1.101                           |
|                      | 1xEVDO-BC0  | 0.682                 | 0.084                          | 0.442                         | 0.31                | 0.766                          | 1.124                          | 1.076                           |
|                      | 1xEVDO-BC1  | 1.183                 | 0.084                          | 0.442                         | 0.31                | 1.267                          | 1.625 <sup>*2</sup>            | 1.577                           |
|                      | 1xEVDO-BC10 | 0.710                 | 0.084                          | 0.442                         | 0.31                | 0.794                          | 1.152                          | 1.104                           |
|                      | LTE-2       | 0.937                 | 0.084                          | 0.442                         | 0.31                | 1.021                          | 1.379                          | 1.331                           |
|                      | LTE-4       | 0.809                 | 0.084                          | 0.442                         | 0.31                | 0.893                          | 1.251                          | 1.203                           |
|                      | LTE-5       | 0.662                 | 0.084                          | 0.442                         | 0.31                | 0.746                          | 1.104                          | 1.056                           |
|                      | LTE-13      | 0.445                 | 0.084                          | 0.442                         | 0.31                | 0.529                          | 0.887                          | 0.839                           |
|                      | LTE-17      | 0.087                 | 0.084                          | 0.442                         | 0.31                | 0.171                          | 0.529                          | 0.481                           |
|                      | LTE-25      | 0.916                 | 0.084                          | 0.442                         | 0.31                | 1.000                          | 1.358                          | 1.310                           |

Note (1) The sum of value is less than 1.6W/Kg, thus simultaneous SAR testing is not need.

(2)

| Simultaneous Transmission (W/Kg) | Antenna pair in mm | Peak location separation ratio |
|----------------------------------|--------------------|--------------------------------|
| 1.633                            | 110                | 0.02                           |
| 1.625                            | 110                | 0.02                           |

Note : The sum of value is less than 1.6W/Kg or the ratio is determined by  $(SAR1 + SAR2)^{1.5}/R_i$ , rounded to two decimal digits, and must be  $\leq 0.04$  for all antenna pairs in the configuration to qualify for SAR test exclusion.

### Simultaneous Transmission Summation Scenario with 5 GHz WLAN

| Test Position (Body) | Band        | (1)<br>WWAN<br>(W/Kg) | (2)<br>U-NII<br>(W/Kg)<br>Main | (3)<br>U-NII<br>(W/Kg)<br>Aux | (4)<br>BT<br>(W/Kg) | (1)+(2)<br>$\Sigma$ 1-g SAR | (1)+(3)<br>$\Sigma$ 1-g SAR | (1)+(2)+(4)<br>$\Sigma$ 1-g SAR |
|----------------------|-------------|-----------------------|--------------------------------|-------------------------------|---------------------|-----------------------------|-----------------------------|---------------------------------|
|                      |             |                       |                                |                               |                     |                             |                             |                                 |
| Top                  | GSM 850     | 1.065                 | N/A                            | 0.406                         | 0.31                | 1.065                       | 1.471                       | 1.375                           |
|                      | PCS 1900    | 0.998                 | N/A                            | 0.406                         | 0.31                | 0.998                       | 1.404                       | 1.308                           |
|                      | WCDMA-2     | 1.035                 | N/A                            | 0.406                         | 0.31                | 1.035                       | 1.441                       | 1.345                           |
|                      | WCDMA-4     | 1.067                 | N/A                            | 0.406                         | 0.31                | 1.067                       | 1.473                       | 1.377                           |
|                      | WCDMA-5     | 0.779                 | N/A                            | 0.406                         | 0.31                | 0.779                       | 1.185                       | 1.089                           |
|                      | CDMA-BC0    | 0.992                 | N/A                            | 0.406                         | 0.31                | 0.992                       | 1.398                       | 1.302                           |
|                      | CDMA-BC1    | 1.094                 | N/A                            | 0.406                         | 0.31                | 1.094                       | 1.500                       | 1.404                           |
|                      | CDMA-BC10   | 0.957                 | N/A                            | 0.406                         | 0.31                | 0.957                       | 1.363                       | 1.267                           |
|                      | 1xEVDO-BC0  | 0.992                 | N/A                            | 0.406                         | 0.31                | 0.992                       | 1.398                       | 1.302                           |
|                      | 1xEVDO-BC1  | 1.094                 | N/A                            | 0.406                         | 0.31                | 1.094                       | 1.500                       | 1.404                           |
|                      | 1xEVDO-BC10 | 0.934                 | N/A                            | 0.406                         | 0.31                | 0.934                       | 1.34                        | 1.244                           |
|                      | LTE-2       | 0.948                 | N/A                            | 0.406                         | 0.31                | 0.948                       | 1.354                       | 1.258                           |
|                      | LTE-4       | 0.985                 | N/A                            | 0.406                         | 0.31                | 0.985                       | 1.391                       | 1.295                           |
|                      | LTE-5       | 0.934                 | N/A                            | 0.406                         | 0.31                | 0.934                       | 1.340                       | 1.244                           |
|                      | LTE-13      | 0.526                 | N/A                            | 0.406                         | 0.31                | 0.526                       | 0.932                       | 0.836                           |
|                      | LTE-17      | 0.113                 | N/A                            | 0.406                         | 0.31                | 0.113                       | 0.519                       | 0.423                           |
|                      | LTE-25      | 0.910                 | N/A                            | 0.406                         | 0.31                | 0.910                       | 1.316                       | 1.220                           |

Note : (1) The sum of value is less than 1.6W/Kg, thus simultaneous SAR testing is not need.

(2) WLAN (Main) is compliance for the SAR Test Exclusion Threshold calculations.



## 10. SAR measurement variability

- 1) Repeated measurement is not required when the original highest measured SAR is  $< 0.80$  W/kg; steps 2) through 4) do not apply.
- 2) When the original highest measured SAR is  $\geq 0.80$  W/kg, repeat that measurement once.
- 3) Perform a second repeated measurement only if the ratio of largest to smallest SAR for the original and first repeated measurements is  $> 1.20$  or when the original or repeated measurement is  $\geq 1.45$  W/kg ( $\sim 10\%$  from the 1-g SAR limit).
- 4) Perform a third repeated measurement only if the original, first or second repeated measurement is  $\geq 1.5$  W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is  $> 1.20$ .

| Frequency |         |         | SAR 1g (W/kg) |                |       |                 |       |                |       |
|-----------|---------|---------|---------------|----------------|-------|-----------------|-------|----------------|-------|
| Mode      | Channel | MHz     | Original      | First Repeated |       | Second Repeated |       | Third Repeated |       |
|           |         |         |               | Value          | Ratio | Value           | Ratio | Value          | Ratio |
| CDMA      | 384     | 836.52  | 0.868         | 0.851          | 1.02  | N/A             | N/A   | N/A            | N/A   |
| EVDO      | 25      | 1851.25 | 1.020         | 0.966          | 1.06  | N/A             | N/A   | N/A            | N/A   |
| CDMA      | 384     | 836.52  | 0.858         | 0.856          | 1.00  | N/A             | N/A   | N/A            | N/A   |
| EVDO      | 25      | 1851.25 | 1.020         | 1.010          | 1.06  | N/A             | N/A   | N/A            | N/A   |

## **Appendix**

**Appendix A. SAR System Check Data**

**Appendix B. SAR measurement Data**

**Appendix C. Test Setup Photographs & EUT Photographs**

**Appendix D. Probe Calibration Data**

**Appendix E. Dipole Calibration Data**