

# TEST REPORT

Reference No..... : WTX23X08187908W009  
FCC ID ..... : 2ARTX-S87  
Applicant ..... : LAVA International Limited  
Address ..... : A-56, Sector-64, Gautam Buddha Nagar, Noida, Uttar Pradesh, 201301  
Manufacturer ..... : Huizhou Jiashang Electronic Science & Technology Co., Ltd.  
Address ..... : 3# Plant, Shanzi Village (Qiaoxing Industrial Park), Xiaotie Area, Xiaojinkou  
Town, Huizhou City, Guangdong Province  
Product Name ..... : Tablet  
Model No..... : S87  
FCC Part 2.1093  
Standards ..... : IEEE Std C95.1: 2019  
IEEE Std C95.3: 2002 + Rev. 2008  
IEC/IEEE 62209-1528 Ed. 1.0 (2020-10)  
Date of Receipt sample .... : 2023-08-28  
Date of Test..... : 2023-08-28 to 2023-09-15  
Date of Issue ..... : 2023-09-18  
Test Report Form No. .... : WTX\_IEEE\_1528W  
Test Result..... : Pass

## Remarks:

The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of approver.

## Prepared By:

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Report version

| Version No. | Date of issue | Description |
|-------------|---------------|-------------|
| Rev.00      | 2023-09-18    | Original    |
| /           | /             | /           |

## 1. General Information

### 1.1 Product Description for Equipment Under Test (EUT)

| General Description of EUT:                                                                                                                                                                                                                                                                   |                              |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|
| Product Name:                                                                                                                                                                                                                                                                                 | Tablet                       |
| Brand Name:                                                                                                                                                                                                                                                                                   | LAVA                         |
| Model No.:                                                                                                                                                                                                                                                                                    | S87                          |
| Adding Model(s):                                                                                                                                                                                                                                                                              | S87A , S87B, S87X , S87P     |
| Rated Voltage:                                                                                                                                                                                                                                                                                | DC3.8V                       |
| Battery:                                                                                                                                                                                                                                                                                      | 5000mAh                      |
| Software Version:                                                                                                                                                                                                                                                                             | LAVA_S87_3_32_SWV01_16102023 |
| Hardware Version:                                                                                                                                                                                                                                                                             | Z860-V1.0                    |
| <p><i>Note: The test data is gathered from a production sample provided by the manufacturer. The appearance of others models listed in the report is different from main-test model S87, but the circuit and the electronic construction do not change, declared by the manufacturer.</i></p> |                              |

| Technical Characteristics of EUT: |                                                                             |
|-----------------------------------|-----------------------------------------------------------------------------|
| <b>2G</b>                         |                                                                             |
| Support Networks:                 | GSM, GPRS, EDGE                                                             |
| Support Band:                     | GSM850/PCS1900                                                              |
| Uplink Frequency:                 | GSM/GPRS/EDGE 850: 824~849MHz<br>GSM/GPRS/EDGE 1900: 1850~1910MHz           |
| Downlink Frequency:               | GSM/GPRS/EDGE 850: 869~894MHz<br>GSM/GPRS/EDGE 1900: 1930~1990MHz           |
| Max RF Output Power:              | GSM850:34.11dBm, GSM1900: 29.68dBm<br>EDGE850: 25.47dBm, EDGE1900: 26.88dBm |
| Type of Modulation:               | GMSK, 8PSK                                                                  |
| Type of Antenna:                  | Integral Antenna                                                            |
| Antenna Gain:                     | GSM850: -1.7dBi; GSM1900: 1.56dBi                                           |
| GPRS/EDGE Class:                  | Class 12                                                                    |
| <b>3G</b>                         |                                                                             |
| Support Networks:                 | WCDMA, HSDPA, HSUPA                                                         |
| Support Band:                     | WCDMA Band 2, WCDMA Band 5                                                  |
| Uplink Frequency:                 | WCDMA Band 2: 1850~1910MHz<br>WCDMA Band 5: 824~849MHz                      |
| Downlink Frequency:               | WCDMA Band 2: 1930~1990MHz<br>WCDMA Band 5: 869~894MHz                      |
| RF Output Power:                  | WCDMA Band 2: 21.87dBm, WCDMA Band 5: 23.46dBm                              |

|                       |                                                                                                                                                                                          |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Type of Modulation:   | BPSK, QPSK, 16QAM                                                                                                                                                                        |
| Antenna Type:         | Integral Antenna                                                                                                                                                                         |
| Antenna Gain:         | WCDMA Band 2: 1.56dBi, WCDMA Band 5: -1.7dBi                                                                                                                                             |
| <b>4G</b>             |                                                                                                                                                                                          |
| Support Networks:     | FDD-LTE, TDD-LTE                                                                                                                                                                         |
| Support Band:         | FDD-LTE Band 5, 7, TDD-LTE Band 40, 41                                                                                                                                                   |
| Uplink Frequency:     | FDD-LTE Band 5: Tx: 824-849MHz,<br>FDD-LTE Band 7: Tx: 2500-2570MHz,<br>TDD-LTE Band 40: Tx: 2305-2315MHz,<br>TDD-LTE Band 40: Tx: 2350-2360MHz,<br>TDD-LTE Band 41: Tx: 2555-2655MHz,   |
| Downlink Frequency:   | FDD-LTE Band 5: Rx: 869-894MHz,<br>FDD-LTE Band 7: Rx: 2620-2690MHz,<br>TDD-LTE Band 40: Rx: 2305-2315MHz,<br>TDD-LTE Band 40: Rx: 2350-2360MHz,<br>TDD-LTE Band 41: Rx: 2555-2655MHz,   |
| RF Output Power:      | FDD-LTE Band 5: 23.67dBm, FDD-LTE Band 7: 24.09dBm,<br>TDD-LTE Band 40 (2305-2315MHz): 23.84dBm,<br>TDD-LTE Band 40 (2350-2360MHz): 24.17dBm,<br>TDD-LTE Band 41(2555-2655MHz): 24.47dBm |
| Type of Modulation:   | QPSK, 16QAM                                                                                                                                                                              |
| Antenna Type:         | Integral Antenna                                                                                                                                                                         |
| Antenna Gain:         | FDD-LTE Band 5: -1.7dBi, FDD-LTE Band 7: 1.25dBi,<br>TDD-LTE Band 40: 0.48dBi, TDD-LTE Band 41: 1.25dBi                                                                                  |
| <b>Wi-Fi(5GHz)</b>    |                                                                                                                                                                                          |
| Support Standards:    | 802.11a, 802.11n-HT20/40, 802.11ac-VHT20/40/80                                                                                                                                           |
| Frequency Range:      | 5150-5250MHz, 5250-5350MHz, 5725-5850MHz                                                                                                                                                 |
| RF Output Power:      | 11.28dBm(Conducted)                                                                                                                                                                      |
| Type of Modulation:   | QPSK, 16QAM, 64QAM                                                                                                                                                                       |
| Type of Antenna:      | Integral Antenna                                                                                                                                                                         |
| Antenna Gain:         | 2.78dBi                                                                                                                                                                                  |
| <b>WIFI(2.4GHz)</b>   |                                                                                                                                                                                          |
| Support Standards:    | 802.11b, 802.11g, 802.11n                                                                                                                                                                |
| Frequency Range:      | 2412-2462MHz for 11b/g/n(HT20)<br>2422-2452MHz for 11n(HT40)                                                                                                                             |
| RF Output Power:      | 13.68dBm (Conducted)                                                                                                                                                                     |
| Type of Modulation:   | CCK, OFDM, QPSK, BPSK, 16QAM, 64QAM                                                                                                                                                      |
| Quantity of Channels: | 11 for 802.11b/g/n(HT20); 7 for 802.11n(HT40)                                                                                                                                            |
| Channel Separation:   | 5MHz                                                                                                                                                                                     |
| Antenna Type:         | Integral Antenna                                                                                                                                                                         |
| Antenna Gain:         | 1.96dBi                                                                                                                                                                                  |
| <b>Bluetooth</b>      |                                                                                                                                                                                          |

|                                                                                                   |                            |
|---------------------------------------------------------------------------------------------------|----------------------------|
| Bluetooth Version:                                                                                | V5.0                       |
| Frequency Range:                                                                                  | 2402-2480MHz               |
| RF Output Power:                                                                                  | 6.56dBm (Conducted)        |
| Data Rate:                                                                                        | 1Mbps, 2Mbps, 3Mbps        |
| Modulation:                                                                                       | GFSK, $\pi/4$ DQPSK, 8DPSK |
| Quantity of Channels:                                                                             | 79/40                      |
| Channel Separation:                                                                               | 1MHz/2MHz                  |
| Antenna Type:                                                                                     | Integral Antenna           |
| Antenna Gain:                                                                                     | 1.96dBi                    |
| <i>Note: The Antenna Gain is provided by the customer and can affect the validity of results.</i> |                            |

## 1.2 Test Standards

The following report is accordance with FCC 47 CFR Part 2.1093, IEEE Std C95.1: 2019, IEEE Std C95.3: 2002 + Rev. 2008, IEC/IEEE 62209-1528 Ed. 1.0 (2020-10), KDB 447498 D01 v06, KDB 648474 D04 v01r03, KDB 248227 D01 v02r02, KDB 616217 D04 v01r02, and KDB 865664 D01 v01r04 and KDB 865664 D02 v01r02.

The objective is to determine compliance with FCC Part 2.1093 of the Federal Communication Commissions rules.

**Maintenance of compliance** is the responsibility of the manufacturer. Any modification of the product, which is result in lowering the emission, should be checked to ensure compliance has been maintained.

## 1.3 Test Methodology

All measurements contained in this report were conducted with KDB 865664 D01 v01r04 and KDB 865664 D02 v01r02. The public notice KDB 447498 D01 v06 for Mobile and Portable Devices RF Exposure Procedure also.

## 1.4 Test Facility

Address of the test laboratory

Laboratory: Waltek Testing Group (Shenzhen) Co., Ltd.

Address: 1/F., Room 101, Building 1, Hongwei Industrial Park, Liuxian 2nd Road,Block 70 Bao'an District, Shenzhen, Guangdong, China

### **FCC – Registration No.: 125990**

Waltek Testing Group (Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files. The Designation Number is CN5010. Test Firm Registration Number is 125990.

### **Industry Canada (IC) Registration No.: 11464A**

The 3m Semi-anechoic chamber of Waltek Testing Group (Shenzhen) Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 11464A.

## 2. Summary of Test Results

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The maximum results of Specific Absorption Rate (SAR) have found during testing are as follows:

| Frequency Band            | Body<br>(0mm Gap)                   | SAR <sub>1g</sub><br>Limit<br>(W/kg) |
|---------------------------|-------------------------------------|--------------------------------------|
|                           | Maximum SAR <sub>1g</sub><br>(W/kg) |                                      |
| GSM                       | 0.198                               | 1.6                                  |
| WCDMA                     | 0.397                               | 1.6                                  |
| LTE                       | <b>0.822</b>                        | 1.6                                  |
| WLAN 5GHz                 | 0.220                               | 1.6                                  |
| WLAN 2.4GHz               | 0.068                               | 1.6                                  |
| Bluetooth                 | 0.033                               | 1.6                                  |
| Simultaneous Transmission | <b>1.042</b>                        | 1.6                                  |

The device is in compliance with Specific Absorption Rate (SAR) for general population/uncontrolled exposure limits (1.6 W/kg) specified in FCC 47 CFR Part 2.1093 and IEEE Std C95.1: 2019 and had been tested in accordance with the measurement methods and procedure specified in IEC/IEEE 62209-1528 Ed. 1.0 (2020-10) and KDB 865664 D01 v01r04 and KDB 865664 D02 v01r02.



### 3. Specific Absorption Rate (SAR)

---

#### 3.1 Introduction

SAR is related to the rate at which energy is absorbed per unit mass in an object exposed to a radio field. The SAR distribution in a biological body is complicated and is usually carried out by experimental techniques or numerical modeling. The standard recommends limits for two tiers of groups, occupational/controlled and general population/uncontrolled, based on a person's awareness and ability to exercise control over his or her exposure. In general, occupational/controlled exposure limits are higher than the limits for general population/uncontrolled.

#### 3.2 SAR Definition

The SAR definition is the time derivative (rate) of the incremental energy (dW) absorbed by (dissipated in) an incremental mass (dm) contained in a volume element (dv) of a given density ( $\rho$ ). The equation description is as below:

$$SAR = \frac{d}{dt} \left( \frac{dW}{dm} \right) = \frac{d}{dt} \left( \frac{dW}{\rho dv} \right)$$

SAR is expressed in units of Watts per kilogram (W/kg)

SAR measurement can be either related to the temperature elevation in tissue by

$$SAR = C \left( \frac{\delta T}{\delta t} \right)$$

Where: C is the specific heat capacity,  $\delta T$  is the temperature rise and  $\delta t$  is the exposure duration, or related to the electrical field in the tissue by

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

Where:  $\sigma$  is the conductivity of the tissue,  $\rho$  is the mass density of the tissue and E is the RMS electrical field strength.

However for evaluating SAR of low power transmitter, electrical field measurement is typically applied.

## 4. SAR Measurement System

---

### 4.1 The Measurement System

Comosar is a system that is able to determine the SAR distribution inside a phantom of human being according to different standards. The Comosar system consists of the following items:

- Main computer to control all the system
- 6 axis robot
- Data acquisition system
- Miniature E-field probe
- Phone holder
- Head simulating tissue

The following figure shows the system.

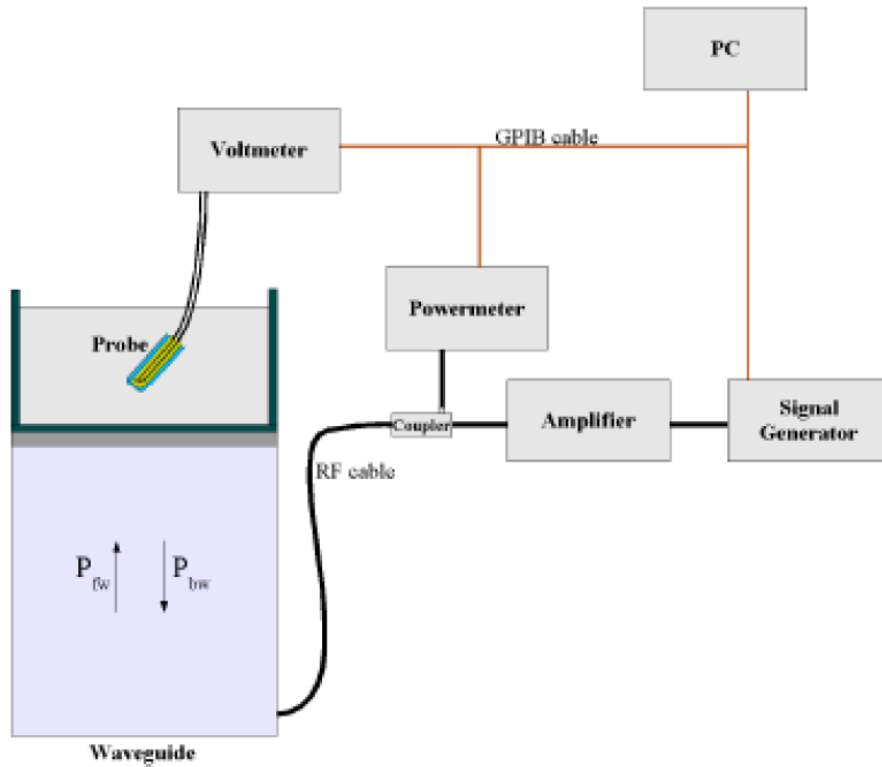


The EUT under test operating at the maximum power level is placed in the phone holder, under the phantom, which is filled with head simulating liquid. The E-Field probe measures the electric field inside the phantom. The OpenSAR software computes the results to give a SAR value in a 1g or 10g mass.

### 4.2 Probe

For the measurements the Specific Dosimetric E-Field Probe SSE2 SN 18/21 EPG0356, and refer to the calibration report for probe parameters.

Probe calibration is realized, in compliance with EN 62209-1 and IEC/IEEE 62209-1528 Ed. 1.0 (2020-10) STD, with CALISAR, Antenna proprietary calibration system. The calibration is performed with the EN 62209-1 annexes technique using reference guide at the five frequencies.



$$SAR = \frac{4(P_{fw} - P_{bw})}{ab\delta} \cos^2\left(\pi \frac{y}{a}\right) e^{-(2z/\delta)}$$

Where :

$P_{fw}$  = Forward Power

$P_{bw}$  = Backward Power

a and b =Waveguide dimensions

$\delta$  = Skin depth

Keithley configuration:

Rate = Medium; Filter = ON; RDGS = 10; Filter type = Moving Average; Range auto after each calibration, a SAR measurement is performed on a validation dipole and compared with a NPL calibrated probe, to verify it. The calibration factors, CF(N), for the 3 sensors corresponding to dipole 1, dipole 2 and dipole 3 are:

$$CF(N) = SAR(N)/V_{lin}(N) \quad (N=1,2,3)$$

The linearised output voltage  $V_{lin}(N)$  is obtained from the displayed output voltage  $V(N)$  using

$$V_{lin}(N) = V(N) * (1 + V(N)/DCP(N)) \quad (N=1,2,3)$$

where DCP is the diode compression point in mV.

### 4.3 Probe Calibration Process

#### Dosimetric Assessment Procedure

Each E-Probe/Probe Amplifier combination has unique calibration parameters. SATIMO Probe calibration procedure is conducted to determine the proper amplifier settings to enter in the probe parameters. The amplifier settings are determined for a given frequency by subjecting the probe to a known E-field density (1 mW/cm<sup>2</sup>) using an with CALISAR, Antenna proprietary calibration system.

#### Free Space Assessment Procedure

The free space E-field from amplified probe outputs is determined in a test chamber. This calibration can be performed in a TEM cell if the frequency is below 1 GHz and in a waveguide or other methodologies above 1 GHz for free space. For the free space calibration, the probe is placed in the volumetric center of the cavity and at the proper orientation with the field. The probe is rotated 360 degrees until the three channels show the maximum reading. The power density readings equates to 1mW/cm<sup>2</sup>.

#### Temperature Assessment Procedure

E-field temperature correlation calibration is performed in a flat phantom filled with the appropriate simulated head tissue. The E-field in the medium correlates with the temperature rise in the dielectric medium. For temperature correlation calibration a RF transparent thermistor-based temperature probe is used in conjunction with the E-field probe.

$$SAR = C \frac{\Delta T}{\Delta t}$$

Where:  
 $\Delta t$  = exposure time (30 seconds),  
 $C$  = heat capacity of tissue (brain or muscle),  
 $\Delta T$  = temperature increase due to RF exposure.

SAR is proportional to  $\Delta T/\Delta t$ , the initial rate of tissue heating, before thermal diffusion takes place. The electric field in the simulated tissue can be used to estimate SAR by equating the thermally derived SAR to that with the E- field component.

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

Where:

$\sigma$  = simulated tissue conductivity,

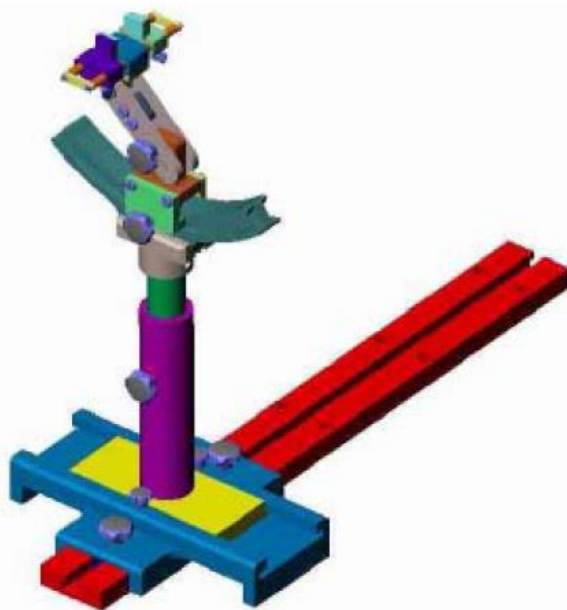
$\rho$  = Tissue density (1.25 g/cm<sup>3</sup> for brain tissue)

#### 4.4 Phantom

For the measurements the Specific Anthropomorphic Mannequin (SAM) defined by the IEEE SCC-34/SC2 group is used. The phantom is a polyurethane shell integrated in a wooden table. The thickness of the phantom amounts to 2mm +/- 0.2mm. It enables the dosimetric evaluation of left and right phone usage and includes an additional flat phantom part for the simplified performance check. The phantom set-up includes a cover, which prevents the evaporation of the liquid.

#### 4.5 Device Holder

The positioning system allows obtaining cheek and tilting position with a very good accuracy. In compliance with CENELEC, the tilt angle uncertainty is lower than 1°.



| System Material | Permittivity | Loss Tangent |
|-----------------|--------------|--------------|
| Delrin          | 3.7          | 0.005        |

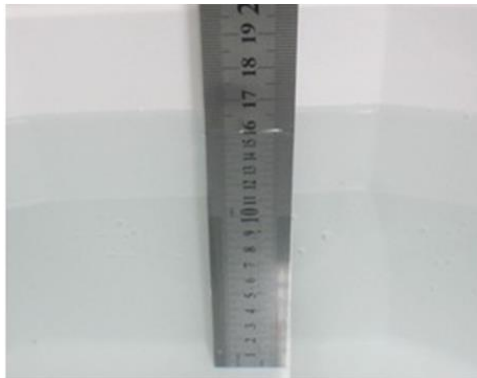
#### 4.6 Test Equipment List

| Description                             | Manufacturer    | Model         | Serial Number             | Cal. Date  | Due. Date  |
|-----------------------------------------|-----------------|---------------|---------------------------|------------|------------|
| E-Field Probe                           | MVG             | SSE2          | SN 18/21 EPGO356          | 2023-07-07 | 2024-07-06 |
| 835MHz Dipole                           | MVG             | SID835        | SN 47/12 DIP<br>0G835-204 | 2023-08-20 | 2026-08-19 |
| 900MHz Dipole                           | MVG             | SID900        | SN 47/12 DIP<br>0G900-205 | 2023-08-20 | 2026-08-19 |
| 1900MHz Dipole                          | MVG             | SID1900       | SN 47/12 DIP<br>1G900-207 | 2023-08-20 | 2026-08-19 |
| 2300 MHz Dipole                         | MVG             | SID2300       | SN 47/12 DIP<br>2G300-209 | 2023-08-20 | 2026-08-19 |
| 2450MHz Dipole                          | MVG             | SID2450       | SN 13/15 DIP<br>2G450-364 | 2023-08-20 | 2026-08-19 |
| 2600MHz Dipole                          | MVG             | SID2600       | SN 28/21 DIP<br>2G600-590 | 2021-07-16 | 2024-07-15 |
| 5 GHz Dipole                            | MVG             | SID5000       | SN 02/21 DIP<br>5G000-543 | 2021-07-21 | 2024-07-20 |
| Dielectric Probe                        | SATIMO          | SCLMP         | SN 47/12 OCPG49           | 2023-02-25 | 2024-02-24 |
| SAM Phantom                             | SATIMO          | SAM           | SN/ 47/12 SAM95           | N/A        | N/A        |
| Multi Meter                             | Keithley        | Keithley 2000 | 4006367                   | 2023-02-25 | 2024-02-24 |
| Power meter                             | Keithley        | 3500          | JC-2017-09-001(A)         | 2023-02-25 | 2024-02-24 |
| Power meter                             | Keithley        | 3500          | JC-2017-09-001(B)         | 2023-02-25 | 2024-02-24 |
| Power Sensor                            | HP              | 11636B        | JC-2017-10-002            | 2023-02-25 | 2024-02-24 |
| EXG Analog Signal<br>Generator          | KEYSIGHT        | N5173B        | MY61252892                | 2023-02-25 | 2024-02-24 |
| Universal Tester                        | Rohde & Schwarz | CMU200        | 112315                    | 2023-02-25 | 2024-02-24 |
| Universal Radio<br>Communication Tester | Rohde & Schwarz | CMW500        | 148650                    | 2023-02-25 | 2024-02-24 |
| Network Analyzer                        | HP              | 8753C         | 2901A00831                | 2023-02-25 | 2024-02-24 |

## 5. Tissue Simulating Liquids

### 5.1 Composition of Tissue Simulating Liquid

For the measurement of the field distribution inside the SAM phantom with SMTIMO, the phantom must be filled with around 25 liters of homogeneous body tissue simulating liquid. For head SAR testing, the liquid height from the ear reference point (ERP) of the phantom to the liquid top surface is larger than 15 cm. For body SAR testing, the liquid height from the center of the flat phantom to the liquid top surface is larger than 15 cm. Please see the following photos for the liquid height.



**Liquid Height for Head/Body SAR**

#### The Composition of Tissue Simulating Liquid

| Frequency (MHz)  | Water (%) | Salt (%) | 1,2-Propane diol (%) | HEC (%) | Preventol (%) | DGBE (%) |
|------------------|-----------|----------|----------------------|---------|---------------|----------|
| <b>Head/Body</b> |           |          |                      |         |               |          |
| 835              | 40.3      | 1.4      | 57.9                 | 0.2     | 0.2           | 0        |
| 900              | 40.3      | 1.4      | 57.9                 | 0.2     | 0.2           | 0        |
| 1800-2000        | 55.2      | 0.3      | 0                    | 0       | 0             | 44.5     |
| 2450             | 55.0      | 0.1      | 0                    | 0       | 0             | 44.9     |
| 2600             | 54.9      | 0.1      | 0                    | 0       | 0             | 45.0     |

| Frequency (MHz)  | Water (%) | Hexyl Carbitol (%) | Triton X-100 (%) |
|------------------|-----------|--------------------|------------------|
| <b>Head/Body</b> |           |                    |                  |
| 5000-6000        | 65.52     | 17.24              | 17.24            |

## 5.2 Tissue Dielectric Parameters for Head and Body Phantoms

According to FCC KDBs, IEC/IEEE 62209-1528 Ed. 1.0 (2020-10) and CEI/IEC 62209 standards state that the system validation measurements must be performed using a reference dipole meeting the fore mentioned return loss and mechanical dimension requirements. The validation measurement must be performed against a liquid filled flat phantom, with the phantom constructed as outlined in the fore mentioned standards. Per the standards, the dipole shall be positioned below the bottom of the phantom, with the dipole length centered and parallel to the longest dimension of the flat phantom, with the top surface of the dipole at the described distance from the bottom surface of the phantom.

| Target Frequency<br>(MHz) | Head                         |                                  | Body                         |                                  |
|---------------------------|------------------------------|----------------------------------|------------------------------|----------------------------------|
|                           | Conductivity<br>( $\sigma$ ) | Permittivity<br>( $\epsilon_r$ ) | Conductivity<br>( $\sigma$ ) | Permittivity<br>( $\epsilon_r$ ) |
| 150                       | 0.76                         | 52.3                             | 0.80                         | 61.9                             |
| 300                       | 0.87                         | 45.3                             | 0.92                         | 58.2                             |
| 450                       | 0.87                         | 43.5                             | 0.94                         | 56.7                             |
| 750                       | 0.89                         | 41.9                             | 0.96                         | 55.5                             |
| <b>835</b>                | <b>0.90</b>                  | <b>41.5</b>                      | <b>0.97</b>                  | <b>55.2</b>                      |
| <b>900</b>                | <b>0.97</b>                  | <b>41.5</b>                      | <b>1.05</b>                  | <b>55.0</b>                      |
| 915                       | 0.98                         | 41.5                             | 1.06                         | 55.0                             |
| 1450                      | 1.20                         | 40.5                             | 1.30                         | 54.0                             |
| 1610                      | 1.29                         | 40.3                             | 1.40                         | 53.8                             |
| <b>1800-2000</b>          | <b>1.40</b>                  | <b>40.0</b>                      | <b>1.52</b>                  | <b>53.3</b>                      |
| <b>2300</b>               | <b>1.67</b>                  | <b>39.5</b>                      | <b>1.81</b>                  | <b>52.9</b>                      |
| <b>2450</b>               | <b>1.80</b>                  | <b>39.2</b>                      | <b>1.95</b>                  | <b>52.7</b>                      |
| <b>2600</b>               | <b>1.96</b>                  | <b>39.0</b>                      | <b>2.16</b>                  | <b>52.5</b>                      |
| 3000                      | 2.40                         | 38.5                             | 2.73                         | 52.0                             |
| <b>5200</b>               | <b>4.66</b>                  | <b>36.0</b>                      | <b>5.30</b>                  | <b>49.0</b>                      |
| <b>5400</b>               | <b>4.86</b>                  | <b>35.8</b>                      | <b>5.53</b>                  | <b>48.7</b>                      |
| 5600                      | 5.07                         | 35.5                             | 5.77                         | 48.5                             |
| <b>5800</b>               | <b>5.27</b>                  | <b>35.3</b>                      | <b>6.00</b>                  | <b>48.2</b>                      |



### 5.3 Tissue Calibration Result

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

#### Calibration Result for Dielectric Parameters of Tissue Simulating Liquid

| Head Tissue Simulating Liquid |               |                         |                        |              |                             |                            |              |              |            |
|-------------------------------|---------------|-------------------------|------------------------|--------------|-----------------------------|----------------------------|--------------|--------------|------------|
| Freq.<br>MHz.                 | Temp.<br>(°C) | Conductivity            |                        |              | Permittivity                |                            |              | Limit<br>(%) | Date       |
|                               |               | Reading<br>( $\sigma$ ) | Target<br>( $\sigma$ ) | Delta<br>(%) | Reading<br>( $\epsilon_r$ ) | Target<br>( $\epsilon_r$ ) | Delta<br>(%) |              |            |
| 835                           | 22.2          | 0.92                    | 0.90                   | 2.22         | 41.34                       | 41.5                       | -0.39        | ±5           | 2023-09-08 |
| 900                           | 22.2          | 0.94                    | 0.97                   | -3.09        | 41.67                       | 41.5                       | 0.41         | ±5           | 2023-09-08 |
| 1900                          | 22.4          | 1.38                    | 1.40                   | -1.43        | 41.11                       | 40.0                       | 2.78         | ±5           | 2023-09-09 |
| 2300                          | 22.4          | 1.63                    | 1.67                   | -2.40        | 40.42                       | 39.5                       | 2.33         | ±5           | 2023-09-09 |
| 2450                          | 22.1          | 1.75                    | 1.80                   | -2.78        | 40.26                       | 39.2                       | 2.70         | ±5           | 2023-09-11 |
| 2600                          | 22.1          | 1.93                    | 1.96                   | -1.53        | 38.68                       | 39.0                       | -0.82        | ±5           | 2023-09-11 |
| 5200                          | 22.3          | 4.61                    | 4.66                   | -1.07        | 35.98                       | 36.0                       | -0.06        | ±5           | 2023-09-13 |
| 5400                          | 22.3          | 4.83                    | 4.86                   | 4.83         | 35.54                       | 35.8                       | -0.73        | ±5           | 2023-09-13 |
| 5800                          | 22.3          | 5.24                    | 5.27                   | 5.24         | 35.26                       | 35.3                       | -0.11        | ±5           | 2023-09-13 |

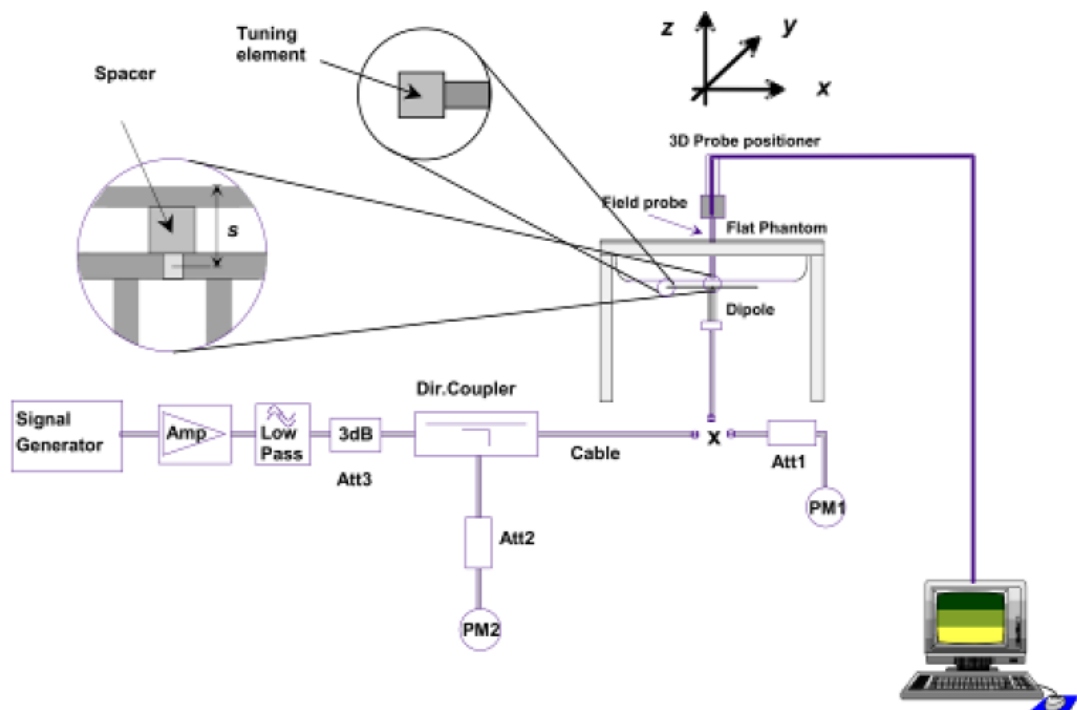
## 6. SAR Measurement Evaluation

### 6.1 Purpose of System Performance Check

The system performance check verifies that the system operates within its specifications. System and operator errors can be detected and corrected. It is recommended that the system performance check be performed prior to any usage of the system in order to guarantee reproducible results. The system performance check uses normal SAR measurements in a simplified setup with a well characterized source. This setup was selected to give a high sensitivity to all parameters that might fail or vary over time. The system check does not intend to replace the calibration of the components, but indicates situations where the system uncertainty is exceeded due to drift or failure.

### 6.2 System Setup

In the simplified setup for system evaluation, the EUT is replaced by a calibrated dipole and the power source is replaced by a continuous wave which comes from a signal generator at frequency 835MHz ,1800MHz, 1900MHz 2450MHz,2600MHz,and 5GHz. The calibrated dipole must be placed beneath the flat phantom section of the SAM twin phantom with the correct distance holder. The distance holder should touch the phantom surface with a light pressure at the reference marking and be oriented parallel to the long side of the phantom.



System Verification Setup Block Diagram



**Setup Photo of Dipole Antenna**

The output power on dipole port must be calibrated to 24 dBm(250 mW) before dipole is connected.

### 6.3 Validation Results

Comparing to the original SAR value provided by SATIMO, the validation data should be within its specification of 10 %. Table 6.1 shows the target SAR and measured SAR after normalized to 1W input power. The table below indicates the system performance check can meet the variation criterion.

| Frequency | Power<br>(mw) | Targeted<br>SAR <sub>1g</sub> | Measured<br>SAR <sub>1g</sub> | Normalized<br>SAR <sub>1g</sub> | Tolerance | Date       |
|-----------|---------------|-------------------------------|-------------------------------|---------------------------------|-----------|------------|
| MHz       | (W/kg)        | (W/kg)                        | (W/kg)                        | (W/kg)                          | (%)       |            |
| Head      |               |                               |                               |                                 |           |            |
| 835       | 250           | 9.65                          | 2.210                         | 8.84                            | -8.39     | 2023-09-08 |
| 900       | 250           | 11.31                         | 2.596                         | 10.384                          | -8.19     | 2023-09-08 |
| 1900      | 250           | 39.59                         | 9.624                         | 38.496                          | -2.76     | 2023-09-09 |
| 2300      | 250           | 49.27                         | 12.126                        | 48.504                          | -1.55     | 2023-09-09 |
| 2450      | 250           | 54.31                         | 13.747                        | 54.988                          | 1.25      | 2023-09-11 |
| 2600      | 250           | 56.81                         | 14.815                        | 59.26                           | 4.31      | 2023-09-11 |
| 5200      | 250           | 75.31                         | 18.567                        | 74.268                          | -1.38     | 2023-09-13 |
| 5400      | 250           | 79.56                         | 18.979                        | 75.916                          | -4.58     | 2023-09-13 |
| 5800      | 250           | 78.05                         | 18.087                        | 72.348                          | -7.31     | 2023-09-13 |

**Remark:** Referring to IEC/IEEE 62209-1528 Ed. 1.0 (2020-10), the system check shall be performed at a test frequency that is within  $\pm 10\%$  or  $\pm 100$  MHz of the compliance test mid-band frequency, so the 1750 MHz system verification is made of 1800MHz Dipole.

Targeted and Measurement SAR

**Please refer to Annex A for the plots of system performance check.**

## 7. EUT Testing Position

### 7.1 Body Position

- (a) To position the device parallel to the phantom surface with each side.
- (b) To adjust the device parallel to the flat phantom.
- (c) To adjust the distance between the device surface and the flat phantom to 0mm.

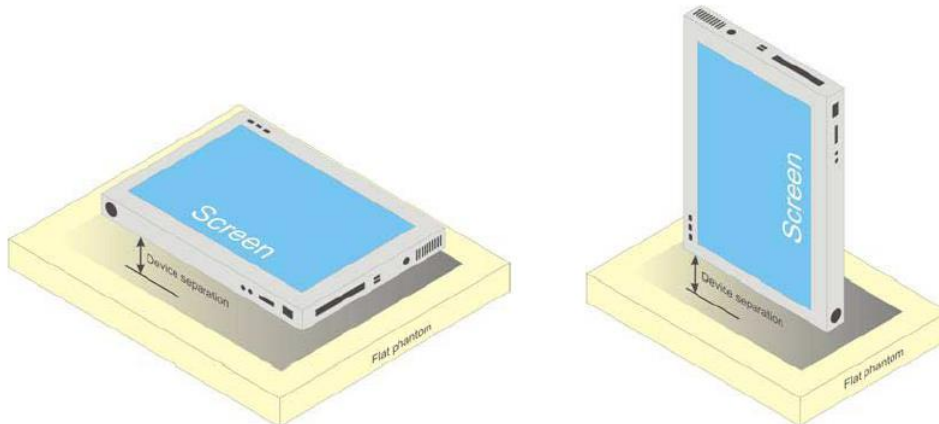
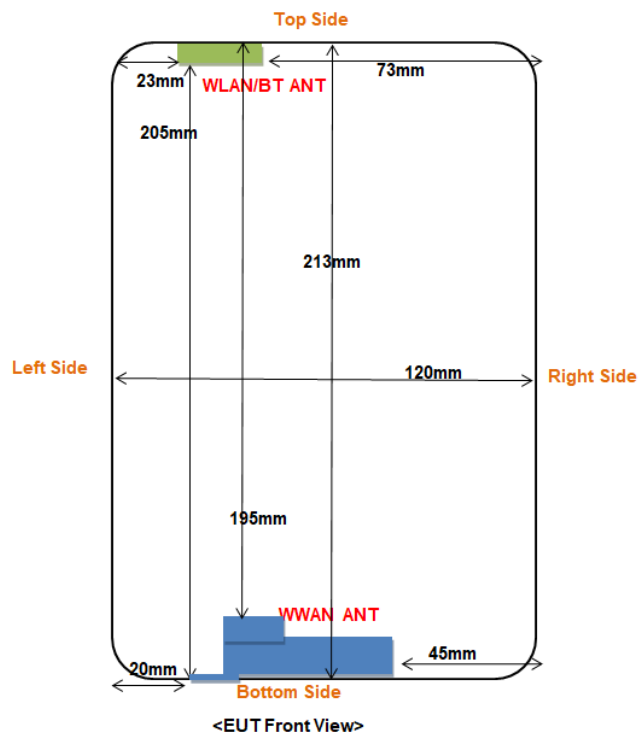


Illustration for Body Position

### 7.2 EUT Antenna Position



Block Diagram for EUT Antenna Position

| Distance of EUT antenna-to-edge/surface(mm),<br>Test distance:0mm |           |            |           |            |          |             |
|-------------------------------------------------------------------|-----------|------------|-----------|------------|----------|-------------|
| Antennas                                                          | Back side | Front side | Left Edge | Right Edge | Top Edge | Bottom Edge |
| WWAN                                                              | <25       | <25        | <25       | 45         | 195      | <25         |
| WLAN/BT                                                           | <25       | <25        | <25       | 73         | <25      | 205         |

### 7.3 EUT Testing Position

Body mode SAR assessments are required for this device. This EUT was tested in different positions for different SAR test modes, more information as below:

| Body SAR tests, Test distance: 0mm |       |      |            |           |          |             |
|------------------------------------|-------|------|------------|-----------|----------|-------------|
| Antennas                           | Front | Back | Right Side | Left Side | Top Side | Bottom Side |
| WWAN                               | /     | Yes  | No         | Yes       | No       | Yes         |
| WLAN/BT                            | /     | Yes  | No         | Yes       | Yes      | No          |

**Remark:**

- Referring to KDB 616217 D04 v01r02, KDB 248227 D01 v02r02 and KDB 447498 D01 v06, this device is overall diagonal dimension(>20cm) tablet, tested in direct contact (no gap) with flat phantom.
- Referring to KDB 616217 D04 v01r02, Exposures from antennas through the front (top) surface of the display section of a full-size tablet, away from the edges, are generally limited to the user's hands. Exposures to hands for typical consumer transmitters used in tablets are not expected to exceed the extremity SAR limit; therefore, SAR evaluation for the front surface of tablet display screens are generally not necessary.

**Please refer to Annex D for the EUT test setup photos.**

## 8. SAR Measurement Procedures

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### 8.1 Measurement Procedures

The measurement procedures are as follows:

- (a) Use base station simulator (if applicable) or engineering software to transmit RF power continuously (continuous Tx) in the highest power channel.
- (b) Keep EUT to radiate maximum output power or 100% factor (if applicable)
- (c) Measure output power through RF cable and power meter.
- (d) Place the EUT in the positions as Annex D demonstrates.
- (e) Set scan area, grid size and other setting on the SATIMO software.
- (f) Measure SAR results for the highest power channel on each testing position.
- (g) Find out the largest SAR result on these testing positions of each band
- (h) Measure SAR results for other channels in worst SAR testing position if the SAR of highest power channel is larger than 0.8 W/kg

According to the test standard, the recommended procedure for assessing the peak spatial-average SAR value consists of the following steps:

- (a) Power reference measurement
- (b) Area scan
- (c) Zoom scan
- (d) Power drift measurement

### 8.2 Spatial Peak SAR Evaluation

The procedure for spatial peak SAR evaluation has been implemented according to the test standard. It can be conducted for 1g and 10g, as well as for user-specific masses. The SATIMO software includes all numerical procedures necessary to evaluate the spatial peak SAR value.

The base for the evaluation is a "cube" measurement. The measured volume must include the 1g and 10g cubes with the highest averaged SAR values. For that purpose, the center of the measured volume is aligned to the interpolated peak SAR value of a previously performed area scan.

The entire evaluation of the spatial peak values is performed within the post-processing engine. The system always gives the maximum values for the 1g and 10g cubes. The algorithm to find the cube with highest averaged SAR is divided into the following stages:

- (a) Extraction of the measured data (grid and values) from the Zoom Scan
- (b) Calculation of the SAR value at every measurement point based on all stored data
- (c) Generation of a high-resolution mesh within the measured volume
- (d) Interpolation of all measured values from the measurement grid to the high-resolution grid
- (e) Extrapolation of the entire 3D field distribution to the phantom surface over the distance from sensor to surface
- (f) Calculation of the averaged SAR within masses of 1g and 10g

### 8.3 Area & Zoom Scan Procedures

First Area Scan is used to locate the approximate location(s) of the local peak SAR value(s). The measurement grid within an Area Scan is defined by the grid extent, grid step size and grid offset. Next, in order to determine the EM field distribution in a three-dimensional spatial extension, Zoom Scan is required. The Zoom Scan measures 5x5x7 points with step size 8, 8 and 5 mm for 300 MHz to 3 GHz, and 8x8x8 points with step size 4, 4 and 2.5 mm for 3 GHz to 6 GHz. The Zoom Scan is performed around the highest E-field value to determine the averaged SAR-distribution over 10 g.

### 8.4 Volume Scan Procedures

The volume scan is used for assess overlapping SAR distributions for antennas transmitting in different frequency

bands. It is equivalent to an oversized zoom scan used in standalone measurements. The measurement volume will

be used to enclose all the simultaneous transmitting antennas. For antennas transmitting simultaneously in different frequency bands, the volume scan is measured separately in each frequency band. In order to sum correctly to compute the 1g aggregate SAR, the EUT remain in the same test position for all measurements and all volume scan use the same spatial resolution and grid spacing (step-size is 4, 4 and 2.5 mm). When all volume scan were completed, the software can combine and subsequently superpose these measurement data to calculating the multiband SAR.

### 8.5 SAR Averaged Methods

The local SAR inside the phantom is measured using small dipole sensing elements inside a probe body. The probe tip must not be in contact with the phantom surface in order to minimize measurements errors, but the highest local SAR will occur at the surface of the phantom.

An extrapolation is using to determinate this highest local SAR values. The extrapolation is based on a fourth-order least-square polynomial fit of measured data. The local SAR value is then extrapolated from the liquid surface with a 1mm step.

The measurements have to be performed over a limited time (due to the duration of the battery) so the step of measurement is high. It could vary between 5 and 8 mm. To obtain an accurate assessment of the maximum SAR averaged over 10g and 1 g requires a very fine resolution in the three dimensional scanned data array.

### 8.6 Power Drift Monitoring

All SAR testing is under the EUT install full charged battery and transmit maximum output power. In SATIMO measurement software, the power reference measurement and power drift measurement procedures are used for monitoring the power drift of EUT during SAR test. Both these procedures measure the field at a specified reference position before and after the SAR testing. The software will calculate the field difference in dB. If the power drift more than 5%, the SAR will be retested.



## 9. SAR Test Result

### 9.1 Conducted RF Output Power

| GSM - Burst Average Power (dBm) |              |       |              |                           |              |              |        |                           |
|---------------------------------|--------------|-------|--------------|---------------------------|--------------|--------------|--------|---------------------------|
| Band                            | GSM850       |       |              | Tune-up<br>power<br>(dBm) | PCS1900      |              |        | Tune-up<br>power<br>(dBm) |
| Channel                         | 128          | 190   | 251          |                           | 512          | 661          | 810    |                           |
| Frequency<br>(MHz)              | 824.2        | 836.6 | 848.8        |                           | 1850.2       | 1880         | 1909.8 |                           |
| GSM                             | 33.69        | 33.74 | <b>34.11</b> | 34.5                      | 29.57        | <b>29.68</b> | 29.12  | 30.0                      |
| GPRS (1 slot)                   | 33.64        | 33.63 | 33.96        | 34.0                      | 29.49        | 29.63        | 29.30  | 30.0                      |
| GPRS (2 slots)                  | 32.87        | 32.72 | 32.95        | 33.0                      | 29.02        | 29.06        | 28.81  | 29.5                      |
| GPRS (3 slots)                  | <b>31.69</b> | 30.81 | 30.98        | 32.0                      | 27.26        | 27.14        | 27.05  | 27.5                      |
| GPRS (4 slots)                  | 30.09        | 29.79 | 29.93        | 30.5                      | <b>26.11</b> | 26.03        | 25.94  | 26.5                      |
| EDGE (1 slot)                   | 25.47        | 25.14 | 25.41        | 25.5                      | 26.88        | 25.96        | 25.48  | 27.0                      |
| EDGE (2 slots)                  | 24.35        | 24.07 | 24.38        | 24.5                      | 25.69        | 25.09        | 24.36  | 26.0                      |
| EDGE (3 slots)                  | 22.37        | 22.12 | 22.42        | 22.5                      | 23.76        | 22.94        | 22.27  | 24.0                      |
| EDGE (4 slots)                  | 21.38        | 21.13 | 21.42        | 21.5                      | 22.56        | 21.83        | 21.07  | 23.0                      |

| GSM - Source-Based Time-Average Power (dBm) |              |       |       |                           |              |       |        |                           |
|---------------------------------------------|--------------|-------|-------|---------------------------|--------------|-------|--------|---------------------------|
| Band                                        | GSM850       |       |       | Tune-up<br>power<br>(dBm) | PCS1900      |       |        | Tune-up<br>power<br>(dBm) |
| Channel                                     | 128          | 190   | 251   |                           | 512          | 661   | 810    |                           |
| Frequency<br>(MHz)                          | 824.2        | 836.6 | 848.8 |                           | 1850.2       | 1880  | 1909.8 |                           |
| GSM                                         | 24.69        | 24.74 | 25.11 | 25.5                      | 20.57        | 20.68 | 20.12  | 21.0                      |
| GPRS (1 slot)                               | 24.64        | 24.63 | 24.96 | 25.0                      | 20.49        | 20.63 | 20.30  | 21.0                      |
| GPRS (2 slots)                              | 26.87        | 26.72 | 26.95 | 27.0                      | 23.02        | 23.06 | 22.81  | 23.5                      |
| GPRS (3 slots)                              | <b>27.44</b> | 26.56 | 26.73 | 27.5                      | 23.01        | 22.89 | 22.80  | 23.5                      |
| GPRS (4 slots)                              | 27.09        | 26.79 | 26.93 | 27.5                      | <b>23.11</b> | 23.03 | 22.94  | 23.5                      |
| EDGE (1 slot)                               | 16.47        | 16.14 | 16.41 | 16.5                      | 17.88        | 16.96 | 16.48  | 18.0                      |
| EDGE (2 slots)                              | 18.35        | 18.07 | 18.38 | 18.5                      | 19.69        | 19.09 | 18.36  | 20.0                      |
| EDGE (3 slots)                              | 18.12        | 17.87 | 18.17 | 18.5                      | 19.51        | 18.69 | 18.02  | 20.0                      |
| EDGE (4 slots)                              | 18.38        | 18.13 | 18.42 | 18.5                      | 19.56        | 18.83 | 18.07  | 20.0                      |

Note: The source-based time-averaged power is linearly scaled the maximum burst averaged power based on time slots. The calculated method are shown as below:

Source based time-average power = Burst averaged power - Duty cycle factor in dB

Duty cycle factor = 9 dB for 1 Tx slot, 6 dB for 2 Tx slots, 4.25 dB for 3 Tx slots, 3 dB for 4 Tx slots

#### Remark:

1. For Body SAR testing, GPRS should be evaluated; therefore the EUT was set in GPRS (3TX slots) for GSM850 and GPRS (4TX slots) for GSM1900 due to its highest source-based time-average power.
2. Per KDB 447498 D01 v06, the maximum output power channel is used for SAR testing and for further SAR

test reduction.

3. The DUT do not support DTM function.

4. The DUT do not support Hotspot function.

| WCDMA - Average Power (dBm) |               |              |        |                           |              |       |       |                           |
|-----------------------------|---------------|--------------|--------|---------------------------|--------------|-------|-------|---------------------------|
| Band                        | WCDMA Band II |              |        |                           | WCDMA Band V |       |       |                           |
| Channel                     | 9262          | 9400         | 9538   | Tune-up<br>power<br>(dBm) | 4132         | 4183  | 4233  | Tune-up<br>power<br>(dBm) |
| Frequency (MHz)             | 1852.4        | 1880.0       | 1907.6 |                           | 826.4        | 836.6 | 846.6 |                           |
| RMC 12.2k                   | 21.82         | <b>21.87</b> | 21.66  | 22.0                      | <b>23.46</b> | 23.30 | 23.19 | 23.5                      |
| HSDPA Subtest-1             | 21.80         | 21.58        | 21.34  | 22.0                      | 22.52        | 22.40 | 22.29 | 23.0                      |
| HSDPA Subtest-2             | 21.59         | 21.61        | 21.92  | 22.0                      | 22.01        | 21.89 | 21.79 | 23.0                      |
| HSDPA Subtest-3             | 21.67         | 21.51        | 21.96  | 22.0                      | 22.05        | 21.91 | 21.81 | 23.0                      |
| HSDPA Subtest-4             | 21.67         | 21.59        | 21.81  | 22.0                      | 22.03        | 21.90 | 21.81 | 23.0                      |
| HSUPA Subtest-1             | 21.70         | 21.46        | 21.17  | 22.0                      | 20.54        | 20.40 | 21.36 | 23.0                      |
| HSUPA Subtest-2             | 21.24         | 21.00        | 21.67  | 22.0                      | 20.99        | 20.89 | 20.83 | 23.0                      |
| HSUPA Subtest-3             | 21.76         | 21.43        | 21.19  | 22.0                      | 21.53        | 21.43 | 21.35 | 23.0                      |
| HSUPA Subtest-4             | 21.16         | 21.94        | 21.73  | 22.0                      | 21.02        | 21.91 | 21.83 | 23.0                      |
| HSUPA Subtest-5             | 20.70         | 20.56        | 21.22  | 22.0                      | 22.55        | 22.42 | 22.30 | 23.0                      |

**Remark:**

1. Per KDB 941225 D01 v03, the 12.2kbps RMC mode was selected for SAR testing (the primary mode).
2. When the maximum output power and tune-up tolerance specified for production units in a secondary mode is  $\leq 1/4$  dB higher than the primary mode or when the highest reported SAR of the primary mode is scaled by the ratio of specified maximum output power and tune-up tolerance of secondary to primary mode and the adjusted SAR is  $\leq 1.2$  W/kg, SAR measurement is not required for the secondary mode.

| Band  | Bandwidth | Modulation | Channel | RB Configuration | Result(dBm) | Verdict |
|-------|-----------|------------|---------|------------------|-------------|---------|
| Band5 | 1.4MHz    | QPSK       | 20407   | 1RB#0            | 23.51       | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20407   | 1RB#0            | 22.24       | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20407   | 1RB#2            | 23.65       | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20407   | 1RB#2            | 22.42       | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20407   | 1RB#5            | 23.50       | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20407   | 1RB#5            | 22.24       | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20407   | 3RB#0            | 23.59       | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20407   | 3RB#0            | 22.31       | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20407   | 3RB#1            | 23.57       | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20407   | 3RB#1            | 22.32       | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20407   | 3RB#3            | 23.65       | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20407   | 3RB#3            | 22.32       | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20407   | 6RB#0            | 22.56       | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20407   | 6RB#0            | 21.51       | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20525   | 1RB#0            | 23.35       | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20525   | 1RB#0            | 22.29       | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20525   | 1RB#2            | 23.48       | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20525   | 1RB#2            | 22.39       | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20525   | 1RB#5            | 23.31       | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20525   | 1RB#5            | 22.26       | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20525   | 3RB#0            | 23.44       | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20525   | 3RB#0            | 22.24       | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20525   | 3RB#1            | 23.47       | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20525   | 3RB#1            | 22.23       | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20525   | 3RB#3            | 23.46       | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20525   | 3RB#3            | 22.15       | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20525   | 6RB#0            | 22.38       | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20525   | 6RB#0            | 21.38       | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20643   | 1RB#0            | 23.13       | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20643   | 1RB#0            | 21.97       | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20643   | 1RB#2            | 23.27       | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20643   | 1RB#2            | 22.19       | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20643   | 1RB#5            | 23.14       | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20643   | 1RB#5            | 22.02       | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20643   | 3RB#0            | 23.24       | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20643   | 3RB#0            | 22.00       | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20643   | 3RB#1            | 23.22       | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20643   | 3RB#1            | 21.99       | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20643   | 3RB#3            | 23.10       | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20643   | 3RB#3            | 21.97       | PASS    |

|       |        |       |       |        |       |      |
|-------|--------|-------|-------|--------|-------|------|
| Band5 | 1.4MHz | QPSK  | 20643 | 6RB#0  | 22.26 | PASS |
| Band5 | 1.4MHz | 16QAM | 20643 | 6RB#0  | 21.19 | PASS |
| Band5 | 3MHz   | QPSK  | 20415 | 1RB#0  | 23.47 | PASS |
| Band5 | 3MHz   | 16QAM | 20415 | 1RB#0  | 22.49 | PASS |
| Band5 | 3MHz   | QPSK  | 20415 | 1RB#8  | 23.46 | PASS |
| Band5 | 3MHz   | 16QAM | 20415 | 1RB#8  | 22.48 | PASS |
| Band5 | 3MHz   | QPSK  | 20415 | 1RB#14 | 23.43 | PASS |
| Band5 | 3MHz   | 16QAM | 20415 | 1RB#14 | 22.42 | PASS |
| Band5 | 3MHz   | QPSK  | 20415 | 8RB#0  | 22.54 | PASS |
| Band5 | 3MHz   | 16QAM | 20415 | 8RB#0  | 21.45 | PASS |
| Band5 | 3MHz   | QPSK  | 20415 | 8RB#4  | 22.52 | PASS |
| Band5 | 3MHz   | 16QAM | 20415 | 8RB#4  | 21.54 | PASS |
| Band5 | 3MHz   | QPSK  | 20415 | 8RB#7  | 22.52 | PASS |
| Band5 | 3MHz   | 16QAM | 20415 | 8RB#7  | 21.51 | PASS |
| Band5 | 3MHz   | QPSK  | 20415 | 15RB#0 | 22.44 | PASS |
| Band5 | 3MHz   | 16QAM | 20415 | 15RB#0 | 21.48 | PASS |
| Band5 | 3MHz   | QPSK  | 20525 | 1RB#0  | 23.40 | PASS |
| Band5 | 3MHz   | 16QAM | 20525 | 1RB#0  | 22.43 | PASS |
| Band5 | 3MHz   | QPSK  | 20525 | 1RB#8  | 23.39 | PASS |
| Band5 | 3MHz   | 16QAM | 20525 | 1RB#8  | 22.34 | PASS |
| Band5 | 3MHz   | QPSK  | 20525 | 1RB#14 | 23.36 | PASS |
| Band5 | 3MHz   | 16QAM | 20525 | 1RB#14 | 22.34 | PASS |
| Band5 | 3MHz   | QPSK  | 20525 | 8RB#0  | 22.44 | PASS |
| Band5 | 3MHz   | 16QAM | 20525 | 8RB#0  | 21.44 | PASS |
| Band5 | 3MHz   | QPSK  | 20525 | 8RB#4  | 22.43 | PASS |
| Band5 | 3MHz   | 16QAM | 20525 | 8RB#4  | 21.44 | PASS |
| Band5 | 3MHz   | QPSK  | 20525 | 8RB#7  | 22.33 | PASS |
| Band5 | 3MHz   | 16QAM | 20525 | 8RB#7  | 21.38 | PASS |
| Band5 | 3MHz   | QPSK  | 20525 | 15RB#0 | 22.34 | PASS |
| Band5 | 3MHz   | 16QAM | 20525 | 15RB#0 | 21.31 | PASS |
| Band5 | 3MHz   | QPSK  | 20635 | 1RB#0  | 23.34 | PASS |
| Band5 | 3MHz   | 16QAM | 20635 | 1RB#0  | 22.19 | PASS |
| Band5 | 3MHz   | QPSK  | 20635 | 1RB#8  | 23.15 | PASS |
| Band5 | 3MHz   | 16QAM | 20635 | 1RB#8  | 22.18 | PASS |
| Band5 | 3MHz   | QPSK  | 20635 | 1RB#14 | 23.18 | PASS |
| Band5 | 3MHz   | 16QAM | 20635 | 1RB#14 | 22.17 | PASS |
| Band5 | 3MHz   | QPSK  | 20635 | 8RB#0  | 22.30 | PASS |
| Band5 | 3MHz   | 16QAM | 20635 | 8RB#0  | 21.22 | PASS |
| Band5 | 3MHz   | QPSK  | 20635 | 8RB#4  | 22.29 | PASS |
| Band5 | 3MHz   | 16QAM | 20635 | 8RB#4  | 21.37 | PASS |
| Band5 | 3MHz   | QPSK  | 20635 | 8RB#7  | 22.23 | PASS |
| Band5 | 3MHz   | 16QAM | 20635 | 8RB#7  | 21.19 | PASS |

|       |      |       |       |         |       |      |
|-------|------|-------|-------|---------|-------|------|
| Band5 | 3MHz | QPSK  | 20635 | 15RB#0  | 22.21 | PASS |
| Band5 | 3MHz | 16QAM | 20635 | 15RB#0  | 21.20 | PASS |
| Band5 | 5MHz | QPSK  | 20425 | 1RB#0   | 23.45 | PASS |
| Band5 | 5MHz | 16QAM | 20425 | 1RB#0   | 22.40 | PASS |
| Band5 | 5MHz | QPSK  | 20425 | 1RB#12  | 23.55 | PASS |
| Band5 | 5MHz | 16QAM | 20425 | 1RB#12  | 22.46 | PASS |
| Band5 | 5MHz | QPSK  | 20425 | 1RB#24  | 23.46 | PASS |
| Band5 | 5MHz | 16QAM | 20425 | 1RB#24  | 22.41 | PASS |
| Band5 | 5MHz | QPSK  | 20425 | 12RB#0  | 22.44 | PASS |
| Band5 | 5MHz | 16QAM | 20425 | 12RB#0  | 21.43 | PASS |
| Band5 | 5MHz | QPSK  | 20425 | 12RB#6  | 22.48 | PASS |
| Band5 | 5MHz | 16QAM | 20425 | 12RB#6  | 21.44 | PASS |
| Band5 | 5MHz | QPSK  | 20425 | 12RB#13 | 22.50 | PASS |
| Band5 | 5MHz | 16QAM | 20425 | 12RB#13 | 21.47 | PASS |
| Band5 | 5MHz | QPSK  | 20425 | 25RB#0  | 22.46 | PASS |
| Band5 | 5MHz | 16QAM | 20425 | 25RB#0  | 21.50 | PASS |
| Band5 | 5MHz | QPSK  | 20525 | 1RB#0   | 23.40 | PASS |
| Band5 | 5MHz | 16QAM | 20525 | 1RB#0   | 22.47 | PASS |
| Band5 | 5MHz | QPSK  | 20525 | 1RB#12  | 23.44 | PASS |
| Band5 | 5MHz | 16QAM | 20525 | 1RB#12  | 22.65 | PASS |
| Band5 | 5MHz | QPSK  | 20525 | 1RB#24  | 23.24 | PASS |
| Band5 | 5MHz | 16QAM | 20525 | 1RB#24  | 22.29 | PASS |
| Band5 | 5MHz | QPSK  | 20525 | 12RB#0  | 22.41 | PASS |
| Band5 | 5MHz | 16QAM | 20525 | 12RB#0  | 21.44 | PASS |
| Band5 | 5MHz | QPSK  | 20525 | 12RB#6  | 22.42 | PASS |
| Band5 | 5MHz | 16QAM | 20525 | 12RB#6  | 21.42 | PASS |
| Band5 | 5MHz | QPSK  | 20525 | 12RB#13 | 22.42 | PASS |
| Band5 | 5MHz | 16QAM | 20525 | 12RB#13 | 21.43 | PASS |
| Band5 | 5MHz | QPSK  | 20525 | 25RB#0  | 22.43 | PASS |
| Band5 | 5MHz | 16QAM | 20525 | 25RB#0  | 21.37 | PASS |
| Band5 | 5MHz | QPSK  | 20625 | 1RB#0   | 23.19 | PASS |
| Band5 | 5MHz | 16QAM | 20625 | 1RB#0   | 22.08 | PASS |
| Band5 | 5MHz | QPSK  | 20625 | 1RB#12  | 23.31 | PASS |
| Band5 | 5MHz | 16QAM | 20625 | 1RB#12  | 22.14 | PASS |
| Band5 | 5MHz | QPSK  | 20625 | 1RB#24  | 23.20 | PASS |
| Band5 | 5MHz | 16QAM | 20625 | 1RB#24  | 22.08 | PASS |
| Band5 | 5MHz | QPSK  | 20625 | 12RB#0  | 22.27 | PASS |
| Band5 | 5MHz | 16QAM | 20625 | 12RB#0  | 21.16 | PASS |
| Band5 | 5MHz | QPSK  | 20625 | 12RB#6  | 22.23 | PASS |
| Band5 | 5MHz | 16QAM | 20625 | 12RB#6  | 21.20 | PASS |
| Band5 | 5MHz | QPSK  | 20625 | 12RB#13 | 22.18 | PASS |
| Band5 | 5MHz | 16QAM | 20625 | 12RB#13 | 21.10 | PASS |

|       |       |       |       |         |              |      |
|-------|-------|-------|-------|---------|--------------|------|
| Band5 | 5MHz  | QPSK  | 20625 | 25RB#0  | 22.22        | PASS |
| Band5 | 5MHz  | 16QAM | 20625 | 25RB#0  | 21.23        | PASS |
| Band5 | 10MHz | QPSK  | 20450 | 1RB#0   | 23.51        | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 1RB#0   | 22.51        | PASS |
| Band5 | 10MHz | QPSK  | 20450 | 1RB#24  | <b>23.67</b> | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 1RB#24  | 22.58        | PASS |
| Band5 | 10MHz | QPSK  | 20450 | 1RB#49  | 23.44        | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 1RB#49  | 22.45        | PASS |
| Band5 | 10MHz | QPSK  | 20450 | 25RB#0  | 22.55        | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 25RB#0  | 21.52        | PASS |
| Band5 | 10MHz | QPSK  | 20450 | 25RB#12 | 22.55        | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 25RB#12 | 21.53        | PASS |
| Band5 | 10MHz | QPSK  | 20450 | 25RB#25 | 22.64        | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 25RB#25 | 21.53        | PASS |
| Band5 | 10MHz | QPSK  | 20450 | 50RB#0  | 22.59        | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 50RB#0  | 21.48        | PASS |
| Band5 | 10MHz | QPSK  | 20525 | 1RB#0   | 23.53        | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 1RB#0   | 22.50        | PASS |
| Band5 | 10MHz | QPSK  | 20525 | 1RB#24  | 23.58        | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 1RB#24  | 22.43        | PASS |
| Band5 | 10MHz | QPSK  | 20525 | 1RB#49  | 23.26        | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 1RB#49  | 22.31        | PASS |
| Band5 | 10MHz | QPSK  | 20525 | 25RB#0  | 22.55        | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 25RB#0  | 21.52        | PASS |
| Band5 | 10MHz | QPSK  | 20525 | 25RB#12 | 22.57        | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 25RB#12 | 21.52        | PASS |
| Band5 | 10MHz | QPSK  | 20525 | 25RB#25 | 22.43        | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 25RB#25 | 21.44        | PASS |
| Band5 | 10MHz | QPSK  | 20525 | 50RB#0  | 22.50        | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 50RB#0  | 21.50        | PASS |
| Band5 | 10MHz | QPSK  | 20600 | 1RB#0   | 23.36        | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 1RB#0   | 22.35        | PASS |
| Band5 | 10MHz | QPSK  | 20600 | 1RB#24  | 23.34        | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 1RB#24  | 22.26        | PASS |
| Band5 | 10MHz | QPSK  | 20600 | 1RB#49  | 23.17        | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 1RB#49  | 22.23        | PASS |
| Band5 | 10MHz | QPSK  | 20600 | 25RB#0  | 22.39        | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 25RB#0  | 21.28        | PASS |
| Band5 | 10MHz | QPSK  | 20600 | 25RB#12 | 22.39        | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 25RB#12 | 21.34        | PASS |
| Band5 | 10MHz | QPSK  | 20600 | 25RB#25 | 22.14        | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 25RB#25 | 21.06        | PASS |

|       |       |       |       |        |       |      |
|-------|-------|-------|-------|--------|-------|------|
| Band5 | 10MHz | QPSK  | 20600 | 50RB#0 | 22.22 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 50RB#0 | 21.24 | PASS |

| Band  | Bandwidth | Modulation | Channel | RB Configuration | Result(dBm) | Verdict |
|-------|-----------|------------|---------|------------------|-------------|---------|
| Band7 | 5MHz      | QPSK       | 20775   | 1RB#0            | 23.73       | PASS    |
| Band7 | 5MHz      | 16QAM      | 20775   | 1RB#0            | 22.56       | PASS    |
| Band7 | 5MHz      | QPSK       | 20775   | 1RB#12           | 23.99       | PASS    |
| Band7 | 5MHz      | 16QAM      | 20775   | 1RB#12           | 22.74       | PASS    |
| Band7 | 5MHz      | QPSK       | 20775   | 1RB#24           | 23.87       | PASS    |
| Band7 | 5MHz      | 16QAM      | 20775   | 1RB#24           | 22.67       | PASS    |
| Band7 | 5MHz      | QPSK       | 20775   | 12RB#0           | 22.85       | PASS    |
| Band7 | 5MHz      | 16QAM      | 20775   | 12RB#0           | 21.64       | PASS    |
| Band7 | 5MHz      | QPSK       | 20775   | 12RB#6           | 22.79       | PASS    |
| Band7 | 5MHz      | 16QAM      | 20775   | 12RB#6           | 21.65       | PASS    |
| Band7 | 5MHz      | QPSK       | 20775   | 12RB#13          | 22.82       | PASS    |
| Band7 | 5MHz      | 16QAM      | 20775   | 12RB#13          | 21.67       | PASS    |
| Band7 | 5MHz      | QPSK       | 20775   | 25RB#0           | 22.78       | PASS    |
| Band7 | 5MHz      | 16QAM      | 20775   | 25RB#0           | 21.65       | PASS    |
| Band7 | 5MHz      | QPSK       | 21100   | 1RB#0            | 23.70       | PASS    |
| Band7 | 5MHz      | 16QAM      | 21100   | 1RB#0            | 22.57       | PASS    |
| Band7 | 5MHz      | QPSK       | 21100   | 1RB#12           | 23.80       | PASS    |
| Band7 | 5MHz      | 16QAM      | 21100   | 1RB#12           | 22.70       | PASS    |
| Band7 | 5MHz      | QPSK       | 21100   | 1RB#24           | 23.67       | PASS    |
| Band7 | 5MHz      | 16QAM      | 21100   | 1RB#24           | 22.59       | PASS    |
| Band7 | 5MHz      | QPSK       | 21100   | 12RB#0           | 22.63       | PASS    |
| Band7 | 5MHz      | 16QAM      | 21100   | 12RB#0           | 21.64       | PASS    |
| Band7 | 5MHz      | QPSK       | 21100   | 12RB#6           | 22.64       | PASS    |
| Band7 | 5MHz      | 16QAM      | 21100   | 12RB#6           | 21.61       | PASS    |
| Band7 | 5MHz      | QPSK       | 21100   | 12RB#13          | 22.69       | PASS    |
| Band7 | 5MHz      | 16QAM      | 21100   | 12RB#13          | 21.63       | PASS    |
| Band7 | 5MHz      | QPSK       | 21100   | 25RB#0           | 22.71       | PASS    |
| Band7 | 5MHz      | 16QAM      | 21100   | 25RB#0           | 21.59       | PASS    |
| Band7 | 5MHz      | QPSK       | 21425   | 1RB#0            | 23.54       | PASS    |
| Band7 | 5MHz      | 16QAM      | 21425   | 1RB#0            | 22.26       | PASS    |
| Band7 | 5MHz      | QPSK       | 21425   | 1RB#12           | 23.73       | PASS    |
| Band7 | 5MHz      | 16QAM      | 21425   | 1RB#12           | 22.41       | PASS    |
| Band7 | 5MHz      | QPSK       | 21425   | 1RB#24           | 23.63       | PASS    |
| Band7 | 5MHz      | 16QAM      | 21425   | 1RB#24           | 22.33       | PASS    |
| Band7 | 5MHz      | QPSK       | 21425   | 12RB#0           | 22.49       | PASS    |
| Band7 | 5MHz      | 16QAM      | 21425   | 12RB#0           | 21.36       | PASS    |
| Band7 | 5MHz      | QPSK       | 21425   | 12RB#6           | 22.46       | PASS    |

|       |       |       |       |         |       |      |
|-------|-------|-------|-------|---------|-------|------|
| Band7 | 5MHz  | 16QAM | 21425 | 12RB#6  | 21.35 | PASS |
| Band7 | 5MHz  | QPSK  | 21425 | 12RB#13 | 22.46 | PASS |
| Band7 | 5MHz  | 16QAM | 21425 | 12RB#13 | 21.43 | PASS |
| Band7 | 5MHz  | QPSK  | 21425 | 25RB#0  | 22.44 | PASS |
| Band7 | 5MHz  | 16QAM | 21425 | 25RB#0  | 21.34 | PASS |
| Band7 | 10MHz | QPSK  | 20800 | 1RB#0   | 23.27 | PASS |
| Band7 | 10MHz | 16QAM | 20800 | 1RB#0   | 22.18 | PASS |
| Band7 | 10MHz | QPSK  | 20800 | 1RB#24  | 23.48 | PASS |
| Band7 | 10MHz | 16QAM | 20800 | 1RB#24  | 22.46 | PASS |
| Band7 | 10MHz | QPSK  | 20800 | 1RB#49  | 23.50 | PASS |
| Band7 | 10MHz | 16QAM | 20800 | 1RB#49  | 22.42 | PASS |
| Band7 | 10MHz | QPSK  | 20800 | 25RB#0  | 22.34 | PASS |
| Band7 | 10MHz | 16QAM | 20800 | 25RB#0  | 21.20 | PASS |
| Band7 | 10MHz | QPSK  | 20800 | 25RB#12 | 22.35 | PASS |
| Band7 | 10MHz | 16QAM | 20800 | 25RB#12 | 21.22 | PASS |
| Band7 | 10MHz | QPSK  | 20800 | 25RB#25 | 22.44 | PASS |
| Band7 | 10MHz | 16QAM | 20800 | 25RB#25 | 21.35 | PASS |
| Band7 | 10MHz | QPSK  | 20800 | 50RB#0  | 22.53 | PASS |
| Band7 | 10MHz | 16QAM | 20800 | 50RB#0  | 21.28 | PASS |
| Band7 | 10MHz | QPSK  | 21100 | 1RB#0   | 23.85 | PASS |
| Band7 | 10MHz | 16QAM | 21100 | 1RB#0   | 22.00 | PASS |
| Band7 | 10MHz | QPSK  | 21100 | 1RB#24  | 23.98 | PASS |
| Band7 | 10MHz | 16QAM | 21100 | 1RB#24  | 22.56 | PASS |
| Band7 | 10MHz | QPSK  | 21100 | 1RB#49  | 23.83 | PASS |
| Band7 | 10MHz | 16QAM | 21100 | 1RB#49  | 22.48 | PASS |
| Band7 | 10MHz | QPSK  | 21100 | 25RB#0  | 22.50 | PASS |
| Band7 | 10MHz | 16QAM | 21100 | 25RB#0  | 21.63 | PASS |
| Band7 | 10MHz | QPSK  | 21100 | 25RB#12 | 22.56 | PASS |
| Band7 | 10MHz | 16QAM | 21100 | 25RB#12 | 21.37 | PASS |
| Band7 | 10MHz | QPSK  | 21100 | 25RB#25 | 22.79 | PASS |
| Band7 | 10MHz | 16QAM | 21100 | 25RB#25 | 21.42 | PASS |
| Band7 | 10MHz | QPSK  | 21100 | 50RB#0  | 22.45 | PASS |
| Band7 | 10MHz | 16QAM | 21100 | 50RB#0  | 21.43 | PASS |
| Band7 | 10MHz | QPSK  | 21400 | 1RB#0   | 23.55 | PASS |
| Band7 | 10MHz | 16QAM | 21400 | 1RB#0   | 21.75 | PASS |
| Band7 | 10MHz | QPSK  | 21400 | 1RB#24  | 23.20 | PASS |
| Band7 | 10MHz | 16QAM | 21400 | 1RB#24  | 21.83 | PASS |
| Band7 | 10MHz | QPSK  | 21400 | 1RB#49  | 23.05 | PASS |
| Band7 | 10MHz | 16QAM | 21400 | 1RB#49  | 21.70 | PASS |
| Band7 | 10MHz | QPSK  | 21400 | 25RB#0  | 22.00 | PASS |
| Band7 | 10MHz | 16QAM | 21400 | 25RB#0  | 20.92 | PASS |
| Band7 | 10MHz | QPSK  | 21400 | 25RB#12 | 22.01 | PASS |



|       |       |       |       |         |       |      |
|-------|-------|-------|-------|---------|-------|------|
| Band7 | 10MHz | 16QAM | 21400 | 25RB#12 | 20.95 | PASS |
| Band7 | 10MHz | QPSK  | 21400 | 25RB#25 | 22.10 | PASS |
| Band7 | 10MHz | 16QAM | 21400 | 25RB#25 | 21.08 | PASS |
| Band7 | 10MHz | QPSK  | 21400 | 50RB#0  | 22.10 | PASS |
| Band7 | 10MHz | 16QAM | 21400 | 50RB#0  | 20.96 | PASS |
| Band7 | 15MHz | QPSK  | 20825 | 1RB#0   | 23.81 | PASS |
| Band7 | 15MHz | 16QAM | 20825 | 1RB#0   | 22.67 | PASS |
| Band7 | 15MHz | QPSK  | 20825 | 1RB#38  | 24.05 | PASS |
| Band7 | 15MHz | 16QAM | 20825 | 1RB#38  | 22.95 | PASS |
| Band7 | 15MHz | QPSK  | 20825 | 1RB#74  | 24.00 | PASS |
| Band7 | 15MHz | 16QAM | 20825 | 1RB#74  | 22.90 | PASS |
| Band7 | 15MHz | QPSK  | 20825 | 38RB#0  | 23.17 | PASS |
| Band7 | 15MHz | 16QAM | 20825 | 38RB#0  | 23.09 | PASS |
| Band7 | 15MHz | QPSK  | 20825 | 38RB#18 | 23.11 | PASS |
| Band7 | 15MHz | 16QAM | 20825 | 38RB#18 | 23.13 | PASS |
| Band7 | 15MHz | QPSK  | 20825 | 38RB#37 | 23.09 | PASS |
| Band7 | 15MHz | 16QAM | 20825 | 38RB#37 | 23.11 | PASS |
| Band7 | 15MHz | QPSK  | 20825 | 75RB#0  | 23.13 | PASS |
| Band7 | 15MHz | 16QAM | 20825 | 75RB#0  | 21.94 | PASS |
| Band7 | 15MHz | QPSK  | 21100 | 1RB#0   | 23.79 | PASS |
| Band7 | 15MHz | 16QAM | 21100 | 1RB#0   | 22.51 | PASS |
| Band7 | 15MHz | QPSK  | 21100 | 1RB#38  | 23.48 | PASS |
| Band7 | 15MHz | 16QAM | 21100 | 1RB#38  | 22.41 | PASS |
| Band7 | 15MHz | QPSK  | 21100 | 1RB#74  | 23.44 | PASS |
| Band7 | 15MHz | 16QAM | 21100 | 1RB#74  | 22.66 | PASS |
| Band7 | 15MHz | QPSK  | 21100 | 38RB#0  | 22.89 | PASS |
| Band7 | 15MHz | 16QAM | 21100 | 38RB#0  | 22.92 | PASS |
| Band7 | 15MHz | QPSK  | 21100 | 38RB#18 | 22.90 | PASS |
| Band7 | 15MHz | 16QAM | 21100 | 38RB#18 | 22.92 | PASS |
| Band7 | 15MHz | QPSK  | 21100 | 38RB#37 | 22.89 | PASS |
| Band7 | 15MHz | 16QAM | 21100 | 38RB#37 | 22.61 | PASS |
| Band7 | 15MHz | QPSK  | 21100 | 75RB#0  | 22.68 | PASS |
| Band7 | 15MHz | 16QAM | 21100 | 75RB#0  | 21.45 | PASS |
| Band7 | 15MHz | QPSK  | 21375 | 1RB#0   | 23.54 | PASS |
| Band7 | 15MHz | 16QAM | 21375 | 1RB#0   | 21.75 | PASS |
| Band7 | 15MHz | QPSK  | 21375 | 1RB#38  | 23.10 | PASS |
| Band7 | 15MHz | 16QAM | 21375 | 1RB#38  | 21.76 | PASS |
| Band7 | 15MHz | QPSK  | 21375 | 1RB#74  | 22.95 | PASS |
| Band7 | 15MHz | 16QAM | 21375 | 1RB#74  | 21.65 | PASS |
| Band7 | 15MHz | QPSK  | 21375 | 38RB#0  | 22.20 | PASS |
| Band7 | 15MHz | 16QAM | 21375 | 38RB#0  | 22.19 | PASS |
| Band7 | 15MHz | QPSK  | 21375 | 38RB#18 | 22.21 | PASS |

|       |       |       |       |         |              |      |
|-------|-------|-------|-------|---------|--------------|------|
| Band7 | 15MHz | 16QAM | 21375 | 38RB#18 | 22.20        | PASS |
| Band7 | 15MHz | QPSK  | 21375 | 38RB#37 | 22.22        | PASS |
| Band7 | 15MHz | 16QAM | 21375 | 38RB#37 | 22.23        | PASS |
| Band7 | 15MHz | QPSK  | 21375 | 75RB#0  | 22.23        | PASS |
| Band7 | 15MHz | 16QAM | 21375 | 75RB#0  | 21.06        | PASS |
| Band7 | 20MHz | QPSK  | 20850 | 1RB#0   | 23.65        | PASS |
| Band7 | 20MHz | 16QAM | 20850 | 1RB#0   | 21.98        | PASS |
| Band7 | 20MHz | QPSK  | 20850 | 1RB#49  | <b>24.09</b> | PASS |
| Band7 | 20MHz | 16QAM | 20850 | 1RB#49  | 22.55        | PASS |
| Band7 | 20MHz | QPSK  | 20850 | 1RB#99  | 23.38        | PASS |
| Band7 | 20MHz | 16QAM | 20850 | 1RB#99  | 22.06        | PASS |
| Band7 | 20MHz | QPSK  | 20850 | 50RB#0  | 22.71        | PASS |
| Band7 | 20MHz | 16QAM | 20850 | 50RB#0  | 21.54        | PASS |
| Band7 | 20MHz | QPSK  | 20850 | 50RB#25 | 22.80        | PASS |
| Band7 | 20MHz | 16QAM | 20850 | 50RB#25 | 21.53        | PASS |
| Band7 | 20MHz | QPSK  | 20850 | 50RB#50 | 22.66        | PASS |
| Band7 | 20MHz | 16QAM | 20850 | 50RB#50 | 21.76        | PASS |
| Band7 | 20MHz | QPSK  | 20850 | 100RB#0 | 22.83        | PASS |
| Band7 | 20MHz | 16QAM | 20850 | 100RB#0 | 21.77        | PASS |
| Band7 | 20MHz | QPSK  | 21100 | 1RB#0   | 23.71        | PASS |
| Band7 | 20MHz | 16QAM | 21100 | 1RB#0   | 22.16        | PASS |
| Band7 | 20MHz | QPSK  | 21100 | 1RB#49  | 23.55        | PASS |
| Band7 | 20MHz | 16QAM | 21100 | 1RB#49  | 22.47        | PASS |
| Band7 | 20MHz | QPSK  | 21100 | 1RB#99  | 23.11        | PASS |
| Band7 | 20MHz | 16QAM | 21100 | 1RB#99  | 22.06        | PASS |
| Band7 | 20MHz | QPSK  | 21100 | 50RB#0  | 22.21        | PASS |
| Band7 | 20MHz | 16QAM | 21100 | 50RB#0  | 21.29        | PASS |
| Band7 | 20MHz | QPSK  | 21100 | 50RB#25 | 22.19        | PASS |
| Band7 | 20MHz | 16QAM | 21100 | 50RB#25 | 21.26        | PASS |
| Band7 | 20MHz | QPSK  | 21100 | 50RB#50 | 22.26        | PASS |
| Band7 | 20MHz | 16QAM | 21100 | 50RB#50 | 21.35        | PASS |
| Band7 | 20MHz | QPSK  | 21100 | 100RB#0 | 22.32        | PASS |
| Band7 | 20MHz | 16QAM | 21100 | 100RB#0 | 21.33        | PASS |
| Band7 | 20MHz | QPSK  | 21350 | 1RB#0   | 23.21        | PASS |
| Band7 | 20MHz | 16QAM | 21350 | 1RB#0   | 21.78        | PASS |
| Band7 | 20MHz | QPSK  | 21350 | 1RB#49  | 23.30        | PASS |
| Band7 | 20MHz | 16QAM | 21350 | 1RB#49  | 22.43        | PASS |
| Band7 | 20MHz | QPSK  | 21350 | 1RB#99  | 23.34        | PASS |
| Band7 | 20MHz | 16QAM | 21350 | 1RB#99  | 22.02        | PASS |
| Band7 | 20MHz | QPSK  | 21350 | 50RB#0  | 22.66        | PASS |
| Band7 | 20MHz | 16QAM | 21350 | 50RB#0  | 21.56        | PASS |
| Band7 | 20MHz | QPSK  | 21350 | 50RB#25 | 22.67        | PASS |

|       |       |       |       |         |       |      |
|-------|-------|-------|-------|---------|-------|------|
| Band7 | 20MHz | 16QAM | 21350 | 50RB#25 | 21.58 | PASS |
| Band7 | 20MHz | QPSK  | 21350 | 50RB#50 | 22.52 | PASS |
| Band7 | 20MHz | 16QAM | 21350 | 50RB#50 | 21.42 | PASS |
| Band7 | 20MHz | QPSK  | 21350 | 100RB#0 | 22.58 | PASS |
| Band7 | 20MHz | 16QAM | 21350 | 100RB#0 | 21.48 | PASS |

**Band 40(2305-2315MHz)**

| Band   | Bandwidth | Modulation | Channel | RB Configuration | Result(dBm) | Verdict |
|--------|-----------|------------|---------|------------------|-------------|---------|
| Band40 | 5MHz      | 16QAM      | 38725   | 12RB#13          | 20.86       | PASS    |
| Band40 | 5MHz      | QPSK       | 38725   | 25RB#0           | 21.99       | PASS    |
| Band40 | 5MHz      | 16QAM      | 38725   | 25RB#0           | 21.00       | PASS    |
| Band40 | 5MHz      | QPSK       | 38750   | 1RB#0            | 22.94       | PASS    |
| Band40 | 5MHz      | 16QAM      | 38750   | 1RB#0            | 21.92       | PASS    |
| Band40 | 5MHz      | QPSK       | 38750   | 1RB#12           | 22.98       | PASS    |
| Band40 | 5MHz      | 16QAM      | 38750   | 1RB#12           | 22.00       | PASS    |
| Band40 | 5MHz      | QPSK       | 38750   | 1RB#24           | 22.83       | PASS    |
| Band40 | 5MHz      | 16QAM      | 38750   | 1RB#24           | 21.82       | PASS    |
| Band40 | 5MHz      | QPSK       | 38750   | 12RB#0           | 21.99       | PASS    |
| Band40 | 5MHz      | 16QAM      | 38750   | 12RB#0           | 20.92       | PASS    |
| Band40 | 5MHz      | QPSK       | 38750   | 12RB#6           | 22.01       | PASS    |
| Band40 | 5MHz      | 16QAM      | 38750   | 12RB#6           | 20.90       | PASS    |
| Band40 | 5MHz      | QPSK       | 38750   | 12RB#13          | 21.94       | PASS    |
| Band40 | 5MHz      | 16QAM      | 38750   | 12RB#13          | 20.85       | PASS    |
| Band40 | 5MHz      | QPSK       | 38750   | 25RB#0           | 21.98       | PASS    |
| Band40 | 5MHz      | 16QAM      | 38750   | 25RB#0           | 20.92       | PASS    |
| Band40 | 5MHz      | QPSK       | 38775   | 1RB#0            | 22.89       | PASS    |
| Band40 | 5MHz      | 16QAM      | 38775   | 1RB#0            | 22.11       | PASS    |
| Band40 | 5MHz      | QPSK       | 38775   | 1RB#12           | 23.00       | PASS    |
| Band40 | 5MHz      | 16QAM      | 38775   | 1RB#12           | 22.15       | PASS    |
| Band40 | 5MHz      | QPSK       | 38775   | 1RB#24           | 22.83       | PASS    |
| Band40 | 5MHz      | 16QAM      | 38775   | 1RB#24           | 22.03       | PASS    |
| Band40 | 10MHz     | QPSK       | 38750   | 1RB#0            | 23.63       | PASS    |
| Band40 | 10MHz     | 16QAM      | 38750   | 1RB#0            | 22.76       | PASS    |
| Band40 | 5MHz      | QPSK       | 38775   | 12RB#0           | 21.95       | PASS    |
| Band40 | 5MHz      | 16QAM      | 38775   | 12RB#0           | 20.93       | PASS    |
| Band40 | 5MHz      | QPSK       | 38775   | 12RB#6           | 21.96       | PASS    |
| Band40 | 5MHz      | 16QAM      | 38775   | 12RB#6           | 20.95       | PASS    |
| Band40 | 5MHz      | QPSK       | 38775   | 12RB#13          | 21.90       | PASS    |
| Band40 | 5MHz      | 16QAM      | 38775   | 12RB#13          | 20.85       | PASS    |
| Band40 | 5MHz      | QPSK       | 38775   | 25RB#0           | 21.98       | PASS    |

|        |       |       |       |         |              |      |
|--------|-------|-------|-------|---------|--------------|------|
| Band40 | 5MHz  | 16QAM | 38775 | 25RB#0  | 20.97        | PASS |
| Band40 | 10MHz | QPSK  | 38750 | 1RB#24  | <b>23.84</b> | PASS |
| Band40 | 10MHz | 16QAM | 38750 | 1RB#24  | 22.94        | PASS |
| Band40 | 10MHz | QPSK  | 38750 | 1RB#49  | 23.56        | PASS |
| Band40 | 10MHz | 16QAM | 38750 | 1RB#49  | 22.68        | PASS |
| Band40 | 10MHz | QPSK  | 38750 | 25RB#0  | 22.71        | PASS |
| Band40 | 10MHz | 16QAM | 38750 | 25RB#0  | 21.80        | PASS |
| Band40 | 10MHz | QPSK  | 38750 | 25RB#12 | 22.70        | PASS |
| Band40 | 10MHz | 16QAM | 38750 | 25RB#12 | 21.82        | PASS |
| Band40 | 10MHz | QPSK  | 38750 | 25RB#25 | 22.61        | PASS |
| Band40 | 10MHz | 16QAM | 38750 | 25RB#25 | 21.71        | PASS |
| Band40 | 10MHz | QPSK  | 38750 | 50RB#0  | 22.68        | PASS |
| Band40 | 10MHz | 16QAM | 38750 | 50RB#0  | 21.68        | PASS |

**Band 40(2350-2360MHz)**

|        |      |       |       |         |       |      |
|--------|------|-------|-------|---------|-------|------|
| Band40 | 5MHz | QPSK  | 39175 | 1RB#0   | 23.97 | PASS |
| Band40 | 5MHz | 16QAM | 39175 | 1RB#0   | 23.20 | PASS |
| Band40 | 5MHz | QPSK  | 39175 | 1RB#12  | 24.01 | PASS |
| Band40 | 5MHz | 16QAM | 39175 | 1RB#12  | 23.22 | PASS |
| Band40 | 5MHz | QPSK  | 39175 | 1RB#24  | 23.86 | PASS |
| Band40 | 5MHz | 16QAM | 39175 | 1RB#24  | 23.12 | PASS |
| Band40 | 5MHz | QPSK  | 39175 | 12RB#0  | 22.90 | PASS |
| Band40 | 5MHz | 16QAM | 39175 | 12RB#0  | 21.86 | PASS |
| Band40 | 5MHz | QPSK  | 39175 | 12RB#6  | 22.88 | PASS |
| Band40 | 5MHz | 16QAM | 39175 | 12RB#6  | 21.83 | PASS |
| Band40 | 5MHz | QPSK  | 39175 | 12RB#13 | 22.94 | PASS |
| Band40 | 5MHz | 16QAM | 39175 | 12RB#13 | 21.86 | PASS |
| Band40 | 5MHz | QPSK  | 39175 | 25RB#0  | 22.97 | PASS |
| Band40 | 5MHz | 16QAM | 39175 | 25RB#0  | 21.96 | PASS |
| Band40 | 5MHz | QPSK  | 39200 | 1RB#0   | 23.65 | PASS |
| Band40 | 5MHz | 16QAM | 39200 | 1RB#0   | 23.10 | PASS |
| Band40 | 5MHz | QPSK  | 39200 | 1RB#12  | 23.78 | PASS |
| Band40 | 5MHz | 16QAM | 39200 | 1RB#12  | 23.11 | PASS |
| Band40 | 5MHz | QPSK  | 39200 | 1RB#24  | 23.68 | PASS |
| Band40 | 5MHz | 16QAM | 39200 | 1RB#24  | 23.05 | PASS |
| Band40 | 5MHz | QPSK  | 39200 | 12RB#0  | 22.90 | PASS |
| Band40 | 5MHz | 16QAM | 39200 | 12RB#0  | 21.87 | PASS |
| Band40 | 5MHz | QPSK  | 39200 | 12RB#6  | 22.90 | PASS |
| Band40 | 5MHz | 16QAM | 39200 | 12RB#6  | 21.85 | PASS |
| Band40 | 5MHz | QPSK  | 39200 | 12RB#13 | 22.83 | PASS |

|        |       |       |       |         |              |      |
|--------|-------|-------|-------|---------|--------------|------|
| Band40 | 5MHz  | 16QAM | 39200 | 12RB#13 | 21.86        | PASS |
| Band40 | 5MHz  | QPSK  | 39200 | 25RB#0  | 22.89        | PASS |
| Band40 | 5MHz  | 16QAM | 39200 | 25RB#0  | 21.89        | PASS |
| Band40 | 5MHz  | QPSK  | 39225 | 1RB#0   | 23.98        | PASS |
| Band40 | 5MHz  | 16QAM | 39225 | 1RB#0   | 22.90        | PASS |
| Band40 | 5MHz  | QPSK  | 39225 | 1RB#12  | 24.08        | PASS |
| Band40 | 5MHz  | 16QAM | 39225 | 1RB#12  | 22.97        | PASS |
| Band40 | 5MHz  | QPSK  | 39225 | 1RB#24  | 23.96        | PASS |
| Band40 | 5MHz  | 16QAM | 39225 | 1RB#24  | 22.89        | PASS |
| Band40 | 5MHz  | QPSK  | 39225 | 12RB#0  | 22.91        | PASS |
| Band40 | 5MHz  | 16QAM | 39225 | 12RB#0  | 21.81        | PASS |
| Band40 | 5MHz  | QPSK  | 39225 | 12RB#6  | 22.93        | PASS |
| Band40 | 5MHz  | 16QAM | 39225 | 12RB#6  | 21.84        | PASS |
| Band40 | 5MHz  | QPSK  | 39225 | 12RB#13 | 22.89        | PASS |
| Band40 | 5MHz  | 16QAM | 39225 | 12RB#13 | 21.82        | PASS |
| Band40 | 5MHz  | QPSK  | 39225 | 25RB#0  | 22.88        | PASS |
| Band40 | 5MHz  | 16QAM | 39225 | 25RB#0  | 21.86        | PASS |
| Band40 | 10MHz | QPSK  | 39200 | 1RB#0   | 23.97        | PASS |
| Band40 | 10MHz | 16QAM | 39200 | 1RB#0   | 23.07        | PASS |
| Band40 | 10MHz | QPSK  | 39200 | 1RB#24  | <b>24.17</b> | PASS |
| Band40 | 10MHz | 16QAM | 39200 | 1RB#24  | 23.22        | PASS |
| Band40 | 10MHz | QPSK  | 39200 | 1RB#49  | 23.92        | PASS |
| Band40 | 10MHz | 16QAM | 39200 | 1RB#49  | 23.04        | PASS |
| Band40 | 10MHz | QPSK  | 39200 | 25RB#0  | 22.95        | PASS |
| Band40 | 10MHz | 16QAM | 39200 | 25RB#0  | 21.94        | PASS |
| Band40 | 10MHz | QPSK  | 39200 | 25RB#12 | 22.95        | PASS |
| Band40 | 10MHz | 16QAM | 39200 | 25RB#12 | 21.98        | PASS |
| Band40 | 10MHz | QPSK  | 39200 | 25RB#25 | 22.91        | PASS |
| Band40 | 10MHz | 16QAM | 39200 | 25RB#25 | 21.94        | PASS |
| Band40 | 10MHz | QPSK  | 39200 | 50RB#0  | 22.89        | PASS |
| Band40 | 10MHz | 16QAM | 39200 | 50RB#0  | 21.89        | PASS |
| Band40 | 5MHz  | QPSK  | 38725 | 1RB#0   | 22.95        | PASS |
| Band40 | 5MHz  | 16QAM | 38725 | 1RB#0   | 22.08        | PASS |
| Band40 | 5MHz  | QPSK  | 38725 | 1RB#12  | 22.98        | PASS |
| Band40 | 5MHz  | 16QAM | 38725 | 1RB#12  | 22.22        | PASS |
| Band40 | 5MHz  | QPSK  | 38725 | 1RB#24  | 22.89        | PASS |
| Band40 | 5MHz  | 16QAM | 38725 | 1RB#24  | 22.13        | PASS |
| Band40 | 5MHz  | QPSK  | 38725 | 12RB#0  | 22.02        | PASS |
| Band40 | 5MHz  | 16QAM | 38725 | 12RB#0  | 20.91        | PASS |
| Band40 | 5MHz  | QPSK  | 38725 | 12RB#6  | 22.00        | PASS |
| Band40 | 5MHz  | 16QAM | 38725 | 12RB#6  | 20.92        | PASS |
| Band40 | 5MHz  | QPSK  | 38725 | 12RB#13 | 21.90        | PASS |

| Band   | Bandwidth | Modulation | Channel | RB Configuration | Result(dBm) | Verdict |
|--------|-----------|------------|---------|------------------|-------------|---------|
| Band41 | 5MHz      | QPSK       | 40265   | 1RB#0            | 24.11       | PASS    |
| Band41 | 5MHz      | 16QAM      | 40265   | 1RB#0            | 23.25       | PASS    |
| Band41 | 5MHz      | QPSK       | 40265   | 1RB#12           | 24.20       | PASS    |
| Band41 | 5MHz      | 16QAM      | 40265   | 1RB#12           | 23.36       | PASS    |
| Band41 | 5MHz      | QPSK       | 40265   | 1RB#24           | 24.06       | PASS    |
| Band41 | 5MHz      | 16QAM      | 40265   | 1RB#24           | 23.22       | PASS    |
| Band41 | 5MHz      | QPSK       | 40265   | 12RB#0           | 22.96       | PASS    |
| Band41 | 5MHz      | 16QAM      | 40265   | 12RB#0           | 21.86       | PASS    |
| Band41 | 5MHz      | QPSK       | 40265   | 12RB#6           | 22.95       | PASS    |
| Band41 | 5MHz      | 16QAM      | 40265   | 12RB#6           | 21.88       | PASS    |
| Band41 | 5MHz      | QPSK       | 40265   | 12RB#13          | 23.02       | PASS    |
| Band41 | 5MHz      | 16QAM      | 40265   | 12RB#13          | 21.89       | PASS    |
| Band41 | 5MHz      | QPSK       | 40265   | 25RB#0           | 22.96       | PASS    |
| Band41 | 5MHz      | 16QAM      | 40265   | 25RB#0           | 21.94       | PASS    |
| Band41 | 5MHz      | QPSK       | 40690   | 1RB#0            | 23.97       | PASS    |
| Band41 | 5MHz      | 16QAM      | 40690   | 1RB#0            | 23.17       | PASS    |
| Band41 | 5MHz      | QPSK       | 40690   | 1RB#12           | 24.03       | PASS    |
| Band41 | 5MHz      | 16QAM      | 40690   | 1RB#12           | 23.26       | PASS    |
| Band41 | 5MHz      | QPSK       | 40690   | 1RB#24           | 23.92       | PASS    |
| Band41 | 5MHz      | 16QAM      | 40690   | 1RB#24           | 23.12       | PASS    |
| Band41 | 5MHz      | QPSK       | 40690   | 12RB#0           | 22.98       | PASS    |
| Band41 | 5MHz      | 16QAM      | 40690   | 12RB#0           | 21.97       | PASS    |
| Band41 | 5MHz      | QPSK       | 40690   | 12RB#6           | 23.03       | PASS    |
| Band41 | 5MHz      | 16QAM      | 40690   | 12RB#6           | 21.93       | PASS    |
| Band41 | 5MHz      | QPSK       | 40690   | 12RB#13          | 23.02       | PASS    |
| Band41 | 5MHz      | 16QAM      | 40690   | 12RB#13          | 21.98       | PASS    |
| Band41 | 5MHz      | QPSK       | 40690   | 25RB#0           | 23.04       | PASS    |
| Band41 | 5MHz      | 16QAM      | 40690   | 25RB#0           | 21.96       | PASS    |
| Band41 | 5MHz      | QPSK       | 41215   | 1RB#0            | 23.80       | PASS    |
| Band41 | 5MHz      | 16QAM      | 41215   | 1RB#0            | 22.82       | PASS    |
| Band41 | 5MHz      | QPSK       | 41215   | 1RB#12           | 23.90       | PASS    |
| Band41 | 5MHz      | 16QAM      | 41215   | 1RB#12           | 22.89       | PASS    |
| Band41 | 15MHz     | QPSK       | 40315   | 1RB#0            | 24.03       | PASS    |
| Band41 | 5MHz      | QPSK       | 41215   | 1RB#24           | 23.81       | PASS    |
| Band41 | 5MHz      | 16QAM      | 41215   | 1RB#24           | 22.84       | PASS    |
| Band41 | 5MHz      | QPSK       | 41215   | 12RB#0           | 22.72       | PASS    |
| Band41 | 5MHz      | 16QAM      | 41215   | 12RB#0           | 21.59       | PASS    |
| Band41 | 5MHz      | QPSK       | 41215   | 12RB#6           | 22.70       | PASS    |
| Band41 | 5MHz      | 16QAM      | 41215   | 12RB#6           | 21.55       | PASS    |
| Band41 | 5MHz      | QPSK       | 41215   | 12RB#13          | 22.64       | PASS    |

|        |       |       |       |         |       |      |
|--------|-------|-------|-------|---------|-------|------|
| Band41 | 5MHz  | 16QAM | 41215 | 12RB#13 | 21.51 | PASS |
| Band41 | 5MHz  | QPSK  | 41215 | 25RB#0  | 22.67 | PASS |
| Band41 | 5MHz  | 16QAM | 41215 | 25RB#0  | 21.59 | PASS |
| Band41 | 15MHz | 16QAM | 40315 | 1RB#0   | 23.12 | PASS |
| Band41 | 15MHz | QPSK  | 40315 | 1RB#38  | 24.11 | PASS |
| Band41 | 15MHz | 16QAM | 40315 | 1RB#38  | 23.19 | PASS |
| Band41 | 15MHz | QPSK  | 40315 | 1RB#74  | 23.85 | PASS |
| Band41 | 15MHz | 16QAM | 40315 | 1RB#74  | 23.00 | PASS |
| Band41 | 15MHz | QPSK  | 40315 | 38RB#0  | 23.09 | PASS |
| Band41 | 15MHz | 16QAM | 40315 | 38RB#0  | 23.12 | PASS |
| Band41 | 15MHz | QPSK  | 40315 | 38RB#18 | 23.13 | PASS |
| Band41 | 15MHz | 16QAM | 40315 | 38RB#18 | 23.08 | PASS |
| Band41 | 15MHz | QPSK  | 40315 | 38RB#37 | 23.13 | PASS |
| Band41 | 15MHz | 16QAM | 40315 | 38RB#37 | 23.07 | PASS |
| Band41 | 15MHz | QPSK  | 40315 | 75RB#0  | 23.12 | PASS |
| Band41 | 15MHz | 16QAM | 40315 | 75RB#0  | 22.03 | PASS |
| Band41 | 15MHz | QPSK  | 40690 | 1RB#0   | 24.19 | PASS |
| Band41 | 15MHz | 16QAM | 40690 | 1RB#0   | 22.93 | PASS |
| Band41 | 15MHz | QPSK  | 40690 | 1RB#38  | 24.25 | PASS |
| Band41 | 15MHz | 16QAM | 40690 | 1RB#38  | 22.99 | PASS |
| Band41 | 15MHz | QPSK  | 40690 | 1RB#74  | 24.00 | PASS |
| Band41 | 15MHz | 16QAM | 40690 | 1RB#74  | 22.80 | PASS |
| Band41 | 15MHz | QPSK  | 40690 | 38RB#0  | 23.13 | PASS |
| Band41 | 15MHz | 16QAM | 40690 | 38RB#0  | 23.14 | PASS |
| Band41 | 15MHz | QPSK  | 40690 | 38RB#18 | 23.15 | PASS |
| Band41 | 15MHz | 16QAM | 40690 | 38RB#18 | 23.15 | PASS |
| Band41 | 15MHz | QPSK  | 40690 | 38RB#37 | 23.16 | PASS |
| Band41 | 15MHz | 16QAM | 40690 | 38RB#37 | 23.18 | PASS |
| Band41 | 15MHz | QPSK  | 40690 | 75RB#0  | 23.18 | PASS |
| Band41 | 15MHz | 16QAM | 40690 | 75RB#0  | 22.07 | PASS |
| Band41 | 15MHz | QPSK  | 41165 | 1RB#0   | 23.84 | PASS |
| Band41 | 15MHz | 16QAM | 41165 | 1RB#0   | 22.96 | PASS |
| Band41 | 15MHz | QPSK  | 41165 | 1RB#38  | 23.72 | PASS |
| Band41 | 15MHz | 16QAM | 41165 | 1RB#38  | 22.82 | PASS |
| Band41 | 15MHz | QPSK  | 41165 | 1RB#74  | 23.63 | PASS |
| Band41 | 15MHz | 16QAM | 41165 | 1RB#74  | 22.65 | PASS |
| Band41 | 15MHz | QPSK  | 41165 | 38RB#0  | 22.85 | PASS |
| Band41 | 15MHz | 16QAM | 41165 | 38RB#0  | 22.81 | PASS |
| Band41 | 15MHz | QPSK  | 41165 | 38RB#18 | 22.82 | PASS |
| Band41 | 15MHz | 16QAM | 41165 | 38RB#18 | 22.88 | PASS |
| Band41 | 15MHz | QPSK  | 41165 | 38RB#37 | 22.87 | PASS |
| Band41 | 15MHz | 16QAM | 41165 | 38RB#37 | 22.86 | PASS |

|        |       |       |       |         |              |      |
|--------|-------|-------|-------|---------|--------------|------|
| Band41 | 15MHz | QPSK  | 41165 | 75RB#0  | 22.85        | PASS |
| Band41 | 15MHz | 16QAM | 41165 | 75RB#0  | 21.77        | PASS |
| Band41 | 20MHz | QPSK  | 40340 | 1RB#0   | 23.89        | PASS |
| Band41 | 20MHz | 16QAM | 40340 | 1RB#0   | 22.88        | PASS |
| Band41 | 20MHz | QPSK  | 40340 | 1RB#49  | <b>24.47</b> | PASS |
| Band41 | 20MHz | 16QAM | 40340 | 1RB#49  | 23.24        | PASS |
| Band41 | 20MHz | QPSK  | 40340 | 1RB#99  | 23.66        | PASS |
| Band41 | 20MHz | 16QAM | 40340 | 1RB#99  | 22.62        | PASS |
| Band41 | 20MHz | QPSK  | 40340 | 50RB#0  | 22.99        | PASS |
| Band41 | 20MHz | 16QAM | 40340 | 50RB#0  | 21.97        | PASS |
| Band41 | 20MHz | QPSK  | 40340 | 50RB#25 | 23.01        | PASS |
| Band41 | 20MHz | 16QAM | 40340 | 50RB#25 | 21.95        | PASS |
| Band41 | 20MHz | QPSK  | 40340 | 50RB#50 | 22.95        | PASS |
| Band41 | 20MHz | 16QAM | 40340 | 50RB#50 | 21.88        | PASS |
| Band41 | 20MHz | QPSK  | 40340 | 100RB#0 | 22.94        | PASS |
| Band41 | 20MHz | 16QAM | 40340 | 100RB#0 | 21.90        | PASS |
| Band41 | 20MHz | QPSK  | 40690 | 1RB#0   | 23.88        | PASS |
| Band41 | 20MHz | 16QAM | 40690 | 1RB#0   | 22.36        | PASS |
| Band41 | 20MHz | QPSK  | 40690 | 1RB#49  | 24.29        | PASS |
| Band41 | 20MHz | 16QAM | 40690 | 1RB#49  | 22.78        | PASS |
| Band41 | 20MHz | QPSK  | 40690 | 1RB#99  | 23.69        | PASS |
| Band41 | 20MHz | 16QAM | 40690 | 1RB#99  | 22.23        | PASS |
| Band41 | 20MHz | QPSK  | 40690 | 50RB#0  | 22.98        | PASS |
| Band41 | 20MHz | 16QAM | 40690 | 50RB#0  | 21.96        | PASS |
| Band41 | 20MHz | QPSK  | 40690 | 50RB#25 | 23.01        | PASS |
| Band41 | 20MHz | 16QAM | 40690 | 50RB#25 | 21.97        | PASS |
| Band41 | 20MHz | QPSK  | 40690 | 50RB#50 | 22.90        | PASS |
| Band41 | 20MHz | 16QAM | 40690 | 50RB#50 | 21.87        | PASS |
| Band41 | 20MHz | QPSK  | 40690 | 100RB#0 | 22.92        | PASS |
| Band41 | 20MHz | 16QAM | 40690 | 100RB#0 | 21.94        | PASS |
| Band41 | 20MHz | QPSK  | 41140 | 1RB#0   | 23.93        | PASS |
| Band41 | 20MHz | 16QAM | 41140 | 1RB#0   | 22.86        | PASS |
| Band41 | 20MHz | QPSK  | 41140 | 1RB#49  | 23.96        | PASS |
| Band41 | 20MHz | 16QAM | 41140 | 1RB#49  | 22.87        | PASS |
| Band41 | 20MHz | QPSK  | 41140 | 1RB#99  | 23.49        | PASS |
| Band41 | 20MHz | 16QAM | 41140 | 1RB#99  | 22.36        | PASS |
| Band41 | 20MHz | QPSK  | 41140 | 50RB#0  | 22.84        | PASS |
| Band41 | 20MHz | 16QAM | 41140 | 50RB#0  | 21.84        | PASS |
| Band41 | 20MHz | QPSK  | 41140 | 50RB#25 | 22.87        | PASS |
| Band41 | 20MHz | 16QAM | 41140 | 50RB#25 | 21.80        | PASS |
| Band41 | 20MHz | QPSK  | 41140 | 50RB#50 | 22.50        | PASS |
| Band41 | 20MHz | 16QAM | 41140 | 50RB#50 | 21.52        | PASS |



|        |       |       |       |         |       |      |
|--------|-------|-------|-------|---------|-------|------|
| Band41 | 20MHz | QPSK  | 41140 | 100RB#0 | 22.70 | PASS |
| Band41 | 20MHz | 16QAM | 41140 | 100RB#0 | 21.68 | PASS |
| Band41 | 10MHz | QPSK  | 40290 | 1RB#0   | 24.13 | PASS |
| Band41 | 10MHz | 16QAM | 40290 | 1RB#0   | 23.22 | PASS |
| Band41 | 10MHz | QPSK  | 40290 | 1RB#24  | 24.42 | PASS |
| Band41 | 10MHz | 16QAM | 40290 | 1RB#24  | 23.45 | PASS |
| Band41 | 10MHz | QPSK  | 40290 | 1RB#49  | 24.14 | PASS |
| Band41 | 10MHz | 16QAM | 40290 | 1RB#49  | 23.24 | PASS |
| Band41 | 10MHz | QPSK  | 40290 | 25RB#0  | 23.05 | PASS |
| Band41 | 10MHz | 16QAM | 40290 | 25RB#0  | 22.06 | PASS |
| Band41 | 10MHz | QPSK  | 40290 | 25RB#12 | 23.03 | PASS |
| Band41 | 10MHz | 16QAM | 40290 | 25RB#12 | 22.09 | PASS |
| Band41 | 10MHz | QPSK  | 40290 | 25RB#25 | 23.08 | PASS |
| Band41 | 10MHz | 16QAM | 40290 | 25RB#25 | 22.11 | PASS |
| Band41 | 10MHz | QPSK  | 40290 | 50RB#0  | 22.99 | PASS |
| Band41 | 10MHz | 16QAM | 40290 | 50RB#0  | 22.00 | PASS |
| Band41 | 10MHz | QPSK  | 40690 | 1RB#0   | 24.18 | PASS |
| Band41 | 10MHz | 16QAM | 40690 | 1RB#0   | 22.93 | PASS |
| Band41 | 10MHz | QPSK  | 40690 | 1RB#24  | 24.36 | PASS |
| Band41 | 10MHz | 16QAM | 40690 | 1RB#24  | 23.09 | PASS |
| Band41 | 10MHz | QPSK  | 40690 | 1RB#49  | 24.11 | PASS |
| Band41 | 10MHz | 16QAM | 40690 | 1RB#49  | 22.82 | PASS |
| Band41 | 10MHz | QPSK  | 40690 | 25RB#0  | 23.08 | PASS |
| Band41 | 10MHz | 16QAM | 40690 | 25RB#0  | 22.01 | PASS |
| Band41 | 10MHz | QPSK  | 40690 | 25RB#12 | 23.07 | PASS |
| Band41 | 10MHz | 16QAM | 40690 | 25RB#12 | 22.04 | PASS |
| Band41 | 10MHz | QPSK  | 40690 | 25RB#25 | 23.07 | PASS |
| Band41 | 10MHz | 16QAM | 40690 | 25RB#25 | 21.99 | PASS |
| Band41 | 10MHz | QPSK  | 40690 | 50RB#0  | 23.04 | PASS |
| Band41 | 10MHz | 16QAM | 40690 | 50RB#0  | 22.03 | PASS |
| Band41 | 10MHz | QPSK  | 41190 | 1RB#0   | 23.80 | PASS |
| Band41 | 10MHz | 16QAM | 41190 | 1RB#0   | 22.89 | PASS |
| Band41 | 10MHz | QPSK  | 41190 | 1RB#24  | 24.02 | PASS |
| Band41 | 10MHz | 16QAM | 41190 | 1RB#24  | 23.03 | PASS |
| Band41 | 10MHz | QPSK  | 41190 | 1RB#49  | 23.79 | PASS |
| Band41 | 10MHz | 16QAM | 41190 | 1RB#49  | 22.79 | PASS |
| Band41 | 10MHz | QPSK  | 41190 | 25RB#0  | 22.77 | PASS |
| Band41 | 10MHz | 16QAM | 41190 | 25RB#0  | 21.70 | PASS |
| Band41 | 10MHz | QPSK  | 41190 | 25RB#12 | 22.75 | PASS |
| Band41 | 10MHz | 16QAM | 41190 | 25RB#12 | 21.76 | PASS |
| Band41 | 10MHz | QPSK  | 41190 | 25RB#25 | 22.67 | PASS |
| Band41 | 10MHz | 16QAM | 41190 | 25RB#25 | 21.66 | PASS |

|        |       |       |       |        |       |      |
|--------|-------|-------|-------|--------|-------|------|
| Band41 | 10MHz | QPSK  | 41190 | 50RB#0 | 22.68 | PASS |
| Band41 | 10MHz | 16QAM | 41190 | 50RB#0 | 21.60 | PASS |

**Remark:**

1. Per KDB941225 D05 v02r05, Start with the largest channel bandwidth then measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power among RB offsets at the upper edge, middle, and lower edge of each required test channel. When the reported SAR is  $\leq 0.8$  W/kg, testing of the remaining RB offset configurations and required test channels is not required for 1 RB allocation; otherwise, SAR is required for the remaining required test channels and only for the RB offset configuration with the highest output power for that channel. 6 When the reported SAR of a required test channel is  $> 1.45$  W/kg, SAR is required for all three RB offset configurations for that required test channel.
2. Per KDB941225 D05 v02r05, the procedures required for 1 RB allocation in 5.2.1 are applied to measure the SAR for QPSK with 50% RB allocation.
3. Per KDB941225 D05 v02r05, for QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations, and the highest reported SAR for 1 RB and 50% RB allocation in 5.2.1 and 5.2.2 are  $\leq 0.8$  W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is  $> 1.45$  W/kg, the remaining required test channels must also be tested.
4. Per KDB941225 D05 v02r05, for each modulation besides QPSK; e.g., 16-QAM, 64-QAM, apply the QPSK procedures in 5.2.1, 5.2.2, and 5.2.3 to determine the QAM configurations that may need SAR measurement. For each configuration identified as required for testing, SAR is required only when the highest maximum output power for the configuration in the higher order modulation is  $> \frac{1}{2}$  dB higher than the same configuration in QPSK or when the reported SAR for the QPSK configuration is  $> 1.45$  W/kg.

| WLAN(2.4GHz)    |           |         |                 |                       |                     |
|-----------------|-----------|---------|-----------------|-----------------------|---------------------|
| Test Mode       | Data Rate | Channel | Frequency (MHz) | Conducted Power (dBm) | Tune-up power (dBm) |
| 802.11b         | 11Mbps    | CH 01   | 2412            | 13.67                 | 14.0                |
|                 |           | CH 06   | 2437            | <b>13.68</b>          | 14.0                |
|                 |           | CH 11   | 2462            | 13.44                 | 14.0                |
| 802.11g         | 54Mbps    | CH 01   | 2412            | 12.98                 | 14.0                |
|                 |           | CH 06   | 2437            | 12.78                 | 14.0                |
|                 |           | CH 11   | 2462            | 12.74                 | 14.0                |
| 802.11n (20MHz) | MCS7      | CH 01   | 2412            | 12.11                 | 14.0                |
|                 |           | CH 06   | 2437            | 12.03                 | 14.0                |
|                 |           | CH 11   | 2462            | 12.04                 | 14.0                |
| 802.11n (40MHz) | MCS7      | CH 03   | 2422            | 11.55                 | 14.0                |
|                 |           | CH 06   | 2437            | 11.11                 | 14.0                |
|                 |           | CH 09   | 2452            | 11.12                 | 14.0                |

| WLAN(5.2GHz)     |         |                 |                       |                     |
|------------------|---------|-----------------|-----------------------|---------------------|
| Test Mode        | Channel | Frequency (MHz) | Conducted Power (dBm) | Tune-up power (dBm) |
| 802.11a          | CH 36   | 5180            | <b>10.52</b>          | 11.0                |
|                  | CH 40   | 5200            | 10.43                 | 11.0                |
|                  | CH 48   | 5240            | 10.18                 | 11.0                |
| 802.11n (HT20)   | CH 36   | 5180            | 10.19                 | 11.0                |
|                  | CH 40   | 5200            | 10.27                 | 11.0                |
|                  | CH 48   | 5240            | 10.05                 | 11.0                |
| 802.11n (HT40)   | CH 38   | 5190            | 9.86                  | 11.0                |
|                  | CH 46   | 5230            | 9.83                  | 11.0                |
| 802.11ac (VHT80) | CH 42   | 5210            | 9.68                  | 11.0                |

| WLAN(5.3GHz)     |         |                 |                       |                     |
|------------------|---------|-----------------|-----------------------|---------------------|
| Test Mode        | Channel | Frequency (MHz) | Conducted Power (dBm) | Tune-up power (dBm) |
| 802.11a          | CH 52   | 5260            | 9.84                  | 10.0                |
|                  | CH 56   | 5280            | <b>9.89</b>           | 10.0                |
|                  | CH 64   | 5320            | 9.32                  | 10.0                |
| 802.11n (HT20)   | CH 52   | 5260            | 8.89                  | 10.0                |
|                  | CH 56   | 5280            | 8.78                  | 10.0                |
|                  | CH 64   | 5320            | 8.83                  | 10.0                |
| 802.11n (HT40)   | CH 54   | 5270            | 8.20                  | 10.0                |
|                  | CH62    | 5310            | 8.14                  | 10.0                |
| 802.11ac (VHT80) | CH 58   | 5290            | 7.94                  | 10.0                |

| WLAN(5.8GHz)     |         |                 |                       |                     |
|------------------|---------|-----------------|-----------------------|---------------------|
| Test Mode        | Channel | Frequency (MHz) | Conducted Power (dBm) | Tune-up power (dBm) |
| 802.11a          | CH 149  | 5745            | <b>11.28</b>          | 11.5                |
|                  | CH 157  | 5785            | 10.34                 | 11.5                |
|                  | CH 165  | 5825            | 9.55                  | 11.5                |
| 802.11n (HT20)   | CH 149  | 5745            | 11.08                 | 11.5                |
|                  | CH 157  | 5785            | 10.17                 | 11.5                |
|                  | CH 165  | 5825            | 9.06                  | 11.5                |
| 802.11n (HT40)   | CH 151  | 5755            | 10.82                 | 11.5                |
|                  | CH159   | 5795            | 9.95                  | 11.5                |
| 802.11ac (VHT80) | CH155   | 5775            | 8.52                  | 11.5                |

**Remark:**

1. Per KDB 248227 D01 v02r02, For 802.11b DSSS SAR measurements, DSSS SAR procedure applies to fixed exposure test position and initial test position procedure applies to multiple exposure test positions.
2. Per KDB 248227 D01 v02r02, For 802.11b DSSS SAR measurements ,when the reported SAR of the highest measured maximum output power channel (see 3.1) for the exposure configuration is  $\leq 0.8$  W/kg, no further SAR testing is required for 802.11b DSSS in that exposure configuration. When the reported SAR is  $> 0.8$  W/kg, SAR is required for that exposure configuration using the next highest measured output power channel. When any reported SAR is  $> 1.2$  W/kg, SAR is required for the third channel; i.e., all channels require testing.
- 3 .For OFDM modes (802.11g/n), SAR is not required when the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and it is  $\leq 1.2$ W/kg.

| Bluetooth     |           |                       |             |      |                     |
|---------------|-----------|-----------------------|-------------|------|---------------------|
| Test Mode     | Data Rate | Conducted Power (dBm) |             |      | Tune-up power (dBm) |
|               |           | Low                   | Middle      | High |                     |
| GFSK          | 1Mbps     | 5.53                  | <b>6.56</b> | 5.77 | 7.0                 |
| $\pi/4$ DQPSK | 2Mbps     | 5.53                  | 5.99        | 5.84 | 7.0                 |
| 8DPSK         | 3Mbps     | 5.53                  | 5.87        | 5.84 | 7.0                 |

| Bluetooth |           |         |                 |                       |
|-----------|-----------|---------|-----------------|-----------------------|
| Test Mode | Data Rate | Channel | Frequency (MHz) | Conducted Power (dBm) |
| BLE       | 1Mbps     | CH 00   | 2402            | -7.16                 |
|           |           | CH 19   | 2440            | -6.42                 |
|           |           | CH 39   | 2480            | -6.91                 |
|           | 2Mbps     | CH 00   | 2402            | -6.98                 |
|           |           | CH 19   | 2440            | -6.34                 |
|           |           | CH 39   | 2480            | -6.77                 |

## 9.2 Test Results for Standalone SAR Test

### Body SAR

| GSM850 – Body SAR Test (Gap: 0mm) |          |               |           |       |                    |                   |                |              |                     |
|-----------------------------------|----------|---------------|-----------|-------|--------------------|-------------------|----------------|--------------|---------------------|
| Plot No.                          | Mode     | Test Position | Frequency |       | Output Power (dBm) | Rated Limit (dBm) | Scaling Factor | SAR1g (W/kg) | Scaled SAR1g (W/kg) |
|                                   |          |               | CH.       | MHz   |                    |                   |                |              |                     |
| 1.                                | GSM      | Back Face     | 251       | 848.8 | 34.11              | 34.5              | 1.094          | 0.145        | <b>0.159</b>        |
|                                   | GSM      | Front Face    | 251       | 848.8 | 34.11              | 34.5              | 1.094          | 0.120        | 0.131               |
| 2.                                | GPRS_3TX | Back Face     | 128       | 824.2 | 31.69              | 32.0              | 1.074          | 0.165        | <b>0.177</b>        |
|                                   | GPRS_3TX | Front Face    | 128       | 824.2 | 31.69              | 32.0              | 1.074          | 0.132        | 0.142               |
|                                   | GPRS_3TX | Left Side     | 128       | 824.2 | 31.69              | 32.0              | 1.074          | 0.051        | 0.055               |
|                                   | GPRS_3TX | Bottom Side   | 128       | 824.2 | 31.69              | 32.0              | 1.074          | 0.084        | 0.090               |

| GSM1900 – Body SAR Test (Gap: 0mm) |          |               |           |        |                    |                   |                |              |                     |
|------------------------------------|----------|---------------|-----------|--------|--------------------|-------------------|----------------|--------------|---------------------|
| Plot No.                           | Mode     | Test Position | Frequency |        | Output Power (dBm) | Rated Limit (dBm) | Scaling Factor | SAR1g (W/kg) | Scaled SAR1g (W/kg) |
|                                    |          |               | CH.       | MHz    |                    |                   |                |              |                     |
| 3.                                 | GSM      | Back Face     | 661       | 1880   | 29.68              | 30.0              | 1.076          | 0.168        | <b>0.181</b>        |
|                                    | GSM      | Front Face    | 661       | 1880   | 29.68              | 30.0              | 1.076          | 0.132        | 0.142               |
| 4.                                 | GPRS_4TX | Back Face     | 512       | 1850.2 | 26.11              | 26.5              | 1.094          | 0.181        | <b>0.198</b>        |
|                                    | GPRS_4TX | Front Face    | 512       | 1850.2 | 26.11              | 26.5              | 1.094          | 0.156        | 0.171               |
|                                    | GPRS_4TX | Left Side     | 512       | 1850.2 | 26.11              | 26.5              | 1.094          | 0.091        | 0.100               |
|                                    | GPRS_4TX | Bottom Side   | 512       | 1850.2 | 26.11              | 26.5              | 1.094          | 0.145        | 0.159               |

| WCDMA Band 2 – Body SAR Test (Gap: 0mm) |           |               |           |        |                    |                   |                |              |                     |
|-----------------------------------------|-----------|---------------|-----------|--------|--------------------|-------------------|----------------|--------------|---------------------|
| Plot No.                                | Mode      | Test Position | Frequency |        | Output Power (dBm) | Rated Limit (dBm) | Scaling Factor | SAR1g (W/kg) | Scaled SAR1g (W/kg) |
|                                         |           |               | CH.       | MHz    |                    |                   |                |              |                     |
| 5.                                      | RMC 12.2k | Back Face     | 9400      | 1880.0 | 21.87              | 22.0              | 1.030          | 0.385        | <b>0.397</b>        |
|                                         | RMC 12.2k | Front Face    | 9400      | 1880.0 | 21.87              | 22.0              | 1.030          | 0.182        | 0.188               |
|                                         | RMC 12.2k | Left Side     | 9400      | 1880.0 | 21.87              | 22.0              | 1.030          | 0.150        | 0.155               |
|                                         | RMC 12.2k | Bottom Side   | 9400      | 1880.0 | 21.87              | 22.0              | 1.030          | 0.171        | 0.176               |

| WCDMA Band 5 – Body SAR Test (Gap: 0mm) |           |               |           |       |                    |                   |                |              |                     |
|-----------------------------------------|-----------|---------------|-----------|-------|--------------------|-------------------|----------------|--------------|---------------------|
| Plot No.                                | Mode      | Test Position | Frequency |       | Output Power (dBm) | Rated Limit (dBm) | Scaling Factor | SAR1g (W/kg) | Scaled SAR1g (W/kg) |
|                                         |           |               | CH.       | MHz   |                    |                   |                |              |                     |
| 6.                                      | RMC 12.2k | Back Face     | 4132      | 826.4 | 23.46              | 23.5              | 1.009          | 0.241        | <b>0.243</b>        |
|                                         | RMC 12.2k | Front Face    | 4132      | 826.4 | 23.46              | 23.5              | 1.009          | 0.164        | 0.166               |
|                                         | RMC 12.2k | Left Side     | 4132      | 826.4 | 23.46              | 23.5              | 1.009          | 0.102        | 0.103               |
|                                         | RMC 12.2k | Bottom Side   | 4132      | 826.4 | 23.46              | 23.5              | 1.009          | 0.143        | 0.144               |

| LTE Band 5–Body SAR Test (Gap: 0mm) |                           |               |           |                    |                   |                |              |                     |
|-------------------------------------|---------------------------|---------------|-----------|--------------------|-------------------|----------------|--------------|---------------------|
| Plot No.                            | Mode                      | Test Position | Frequency | Output Power (dBm) | Rated Limit (dBm) | Scaling Factor | SAR1g (W/kg) | Scaled SAR1g (W/kg) |
|                                     | Modulation, Bandwidth, RB |               | MHz       |                    |                   |                |              |                     |
| 7.                                  | QPSK 10MHz 1RB            | Back Face     | 829       | 23.67              | 24.0              | 1.079          | 0.762        | <b>0.822</b>        |
|                                     | QPSK 10MHz 1RB            | Front Face    | 829       | 23.67              | 24.0              | 1.079          | 0.531        | 0.573               |
|                                     | QPSK 10MHz 1RB            | Left Side     | 829       | 23.67              | 24.0              | 1.079          | 0.270        | 0.291               |
|                                     | QPSK 10MHz 1RB            | Bottom Side   | 829       | 23.67              | 24.0              | 1.079          | 0.332        | 0.358               |
|                                     | QPSK 10MHz 1RB            | Back Face     | 836.5     | 23.58              | 24.0              | 1.102          | 0.731        | 0.805               |
|                                     | QPSK 10MHz 1RB            | Back Face     | 844       | 23.36              | 24.0              | 1.159          | 0.708        | 0.820               |
|                                     | QPSK 10MHz 50%RB          | Back Face     | 829       | 23.67              | 24.0              | 1.079          | 0.635        | 0.685               |
|                                     | QPSK 10MHz 50%RB          | Front Face    | 829       | 23.67              | 24.0              | 1.079          | 0.455        | 0.491               |
|                                     | QPSK 10MHz 50%RB          | Left Side     | 829       | 23.67              | 24.0              | 1.079          | 0.250        | 0.270               |
|                                     | QPSK 10MHz 50%RB          | Bottom Side   | 829       | 23.67              | 24.0              | 1.079          | 0.302        | 0.326               |
|                                     | QPSK 10MHz 50%RB          | Back Face     | 836.5     | 23.58              | 24.0              | 1.102          | 0.713        | 0.785               |
|                                     | QPSK 10MHz 50%RB          | Back Face     | 844       | 23.36              | 24.0              | 1.159          | 0.685        | 0.794               |

| LTE Band 7–Body SAR Test (Gap: 0mm) |                           |               |           |                    |                   |                |              |                     |
|-------------------------------------|---------------------------|---------------|-----------|--------------------|-------------------|----------------|--------------|---------------------|
| Plot No.                            | Mode                      | Test Position | Frequency | Output Power (dBm) | Rated Limit (dBm) | Scaling Factor | SAR1g (W/kg) | Scaled SAR1g (W/kg) |
|                                     | Modulation, Bandwidth, RB |               | MHz       |                    |                   |                |              |                     |
| 8.                                  | QPSK 20MHz 1RB            | Back Face     | 2510      | 24.09              | 24.5              | 1.099          | 0.365        | <b>0.401</b>        |
|                                     | QPSK 20MHz 1RB            | Front Face    | 2510      | 24.09              | 24.5              | 1.099          | 0.319        | 0.351               |
|                                     | QPSK 20MHz 1RB            | Left Side     | 2510      | 24.09              | 24.5              | 1.099          | 0.161        | 0.177               |
|                                     | QPSK 20MHz 1RB            | Bottom Side   | 2510      | 24.09              | 24.5              | 1.099          | 0.278        | 0.306               |
|                                     | QPSK 20MHz 50%RB          | Back Face     | 2510      | 24.09              | 24.5              | 1.099          | 0.355        | 0.390               |
|                                     | QPSK 20MHz 50%RB          | Front Face    | 2510      | 24.09              | 24.5              | 1.099          | 0.299        | 0.329               |
|                                     | QPSK 20MHz 50%RB          | Left Side     | 2510      | 24.09              | 24.5              | 1.099          | 0.145        | 0.159               |
|                                     | QPSK 20MHz 50%RB          | Bottom Side   | 2510      | 24.09              | 24.5              | 1.099          | 0.257        | 0.282               |

| LTE Band 40(2305-2315MHz)–Body SAR Test (Gap: 0mm) |                           |               |           |                    |                   |                |              |                     |
|----------------------------------------------------|---------------------------|---------------|-----------|--------------------|-------------------|----------------|--------------|---------------------|
| Plot No.                                           | Mode                      | Test Position | Frequency | Output Power (dBm) | Rated Limit (dBm) | Scaling Factor | SAR1g (W/kg) | Scaled SAR1g (W/kg) |
|                                                    | Modulation, Bandwidth, RB |               | MHz       |                    |                   |                |              |                     |
| 9.                                                 | QPSK 10MHz 1RB            | Back Face     | 2310      | 23.84              | 24.0              | 1.038          | 0.181        | <b>0.188</b>        |
|                                                    | QPSK 10MHz 1RB            | Front Face    | 2310      | 23.84              | 24.0              | 1.038          | 0.103        | 0.107               |
|                                                    | QPSK 10MHz 1RB            | Left Side     | 2310      | 23.84              | 24.0              | 1.038          | 0.075        | 0.078               |
|                                                    | QPSK 10MHz 1RB            | Bottom Side   | 2310      | 23.84              | 24.0              | 1.038          | 0.088        | 0.091               |
|                                                    | QPSK 10MHz 50%RB          | Back Face     | 2310      | 23.84              | 24.0              | 1.038          | 0.172        | 0.178               |
|                                                    | QPSK 10MHz 50%RB          | Front Face    | 2310      | 23.84              | 24.0              | 1.038          | 0.093        | 0.096               |
|                                                    | QPSK 10MHz 50%RB          | Left Side     | 2310      | 23.84              | 24.0              | 1.038          | 0.069        | 0.072               |
|                                                    | QPSK 10MHz 50%RB          | Bottom Side   | 2310      | 23.84              | 24.0              | 1.038          | 0.077        | 0.080               |



| LTE Band 40(2350-2360MHz)–Body SAR Test (Gap: 0mm) |                           |               |           |                    |                   |                |              |                     |
|----------------------------------------------------|---------------------------|---------------|-----------|--------------------|-------------------|----------------|--------------|---------------------|
| Plot No.                                           | Mode                      | Test Position | Frequency | Output Power (dBm) | Rated Limit (dBm) | Scaling Factor | SAR1g (W/kg) | Scaled SAR1g (W/kg) |
|                                                    | Modulation, Bandwidth, RB |               | MHz       |                    |                   |                |              |                     |
| 10.                                                | QPSK 10MHz 1RB            | Back Face     | 2355      | 24.17              | 24.5              | 1.079          | 0.210        | <b>0.227</b>        |
|                                                    | QPSK 10MHz 1RB            | Front Face    | 2355      | 24.17              | 24.5              | 1.079          | 0.141        | 0.152               |
|                                                    | QPSK 10MHz 1RB            | Left Side     | 2355      | 24.17              | 24.5              | 1.079          | 0.091        | 0.098               |
|                                                    | QPSK 10MHz 1RB            | Bottom Side   | 2355      | 24.17              | 24.5              | 1.079          | 0.102        | 0.110               |
|                                                    | QPSK 10MHz 50%RB          | Back Face     | 2355      | 24.17              | 24.5              | 1.079          | 0.201        | 0.217               |
|                                                    | QPSK 10MHz 50%RB          | Front Face    | 2355      | 24.17              | 24.5              | 1.079          | 0.110        | 0.119               |
|                                                    | QPSK 10MHz 50%RB          | Left Side     | 2355      | 24.17              | 24.5              | 1.079          | 0.083        | 0.090               |
|                                                    | QPSK 10MHz 50%RB          | Bottom Side   | 2355      | 24.17              | 24.5              | 1.079          | 0.091        | 0.098               |

| LTE Band 41(2555-2655MHz)–Body SAR Test (Gap: 0mm) |                           |               |           |                    |                   |                |              |                     |
|----------------------------------------------------|---------------------------|---------------|-----------|--------------------|-------------------|----------------|--------------|---------------------|
| Plot No.                                           | Mode                      | Test Position | Frequency | Output Power (dBm) | Rated Limit (dBm) | Scaling Factor | SAR1g (W/kg) | Scaled SAR1g (W/kg) |
|                                                    | Modulation, Bandwidth, RB |               | MHz       |                    |                   |                |              |                     |
| 11.                                                | QPSK 20MHz 1RB            | Back Face     | 2565      | 24.47              | 24.5              | 1.007          | 0.554        | <b>0.558</b>        |
|                                                    | QPSK 20MHz 1RB            | Front Face    | 2565      | 24.47              | 24.5              | 1.007          | 0.421        | 0.424               |
|                                                    | QPSK 20MHz 1RB            | Left Side     | 2565      | 24.47              | 24.5              | 1.007          | 0.142        | 0.143               |
|                                                    | QPSK 20MHz 1RB            | Bottom Side   | 2565      | 24.47              | 24.5              | 1.007          | 0.357        | 0.359               |
|                                                    | QPSK 20MHz 50%RB          | Back Face     | 2565      | 24.47              | 24.5              | 1.007          | 0.547        | 0.551               |
|                                                    | QPSK 20MHz 50%RB          | Front Face    | 2565      | 24.47              | 24.5              | 1.007          | 0.412        | 0.415               |
|                                                    | QPSK 20MHz 50%RB          | Left Side     | 2565      | 24.47              | 24.5              | 1.007          | 0.127        | 0.128               |
|                                                    | QPSK 20MHz 50%RB          | Bottom Side   | 2565      | 24.47              | 24.5              | 1.007          | 0.339        | 0.341               |

| WLAN 2.4GHz –Body SAR Test (Gap: 0mm) |         |               |           |      |                    |                   |                |              |                     |
|---------------------------------------|---------|---------------|-----------|------|--------------------|-------------------|----------------|--------------|---------------------|
| Plot No.                              | Mode    | Test Position | Frequency |      | Output Power (dBm) | Rated Limit (dBm) | Scaling Factor | SAR1g (W/kg) | Scaled SAR1g (W/kg) |
|                                       |         |               | CH.       | MHz  |                    |                   |                |              |                     |
| 12.                                   | 802.11b | Back Face     | 06        | 2437 | 13.68              | 14.0              | 1.076          | 0.063        | <b>0.068</b>        |
|                                       | 802.11b | Front Face    | 06        | 2437 | 13.68              | 14.0              | 1.076          | 0.055        | 0.059               |
|                                       | 802.11b | Left Side     | 06        | 2437 | 13.68              | 14.0              | 1.076          | 0.025        | 0.027               |
|                                       | 802.11b | Top Side      | 06        | 2437 | 13.68              | 14.0              | 1.076          | 0.051        | 0.055               |

| Bluetooth–Body SAR Test (Gap: 0mm) |      |               |           |      |                    |                   |                |              |                     |
|------------------------------------|------|---------------|-----------|------|--------------------|-------------------|----------------|--------------|---------------------|
| Plot No.                           | Mode | Test Position | Frequency |      | Output Power (dBm) | Rated Limit (dBm) | Scaling Factor | SAR1g (W/kg) | Scaled SAR1g (W/kg) |
|                                    |      |               | CH.       | MHz  |                    |                   |                |              |                     |
| 13.                                | GFSK | Back Face     | 39        | 2441 | 6.56               | 7.0               | 1.107          | 0.030        | <b>0.033</b>        |
|                                    | GFSK | Front Face    | 39        | 2441 | 6.56               | 7.0               | 1.107          | 0.021        | 0.023               |
|                                    | GFSK | Left Side     | 39        | 2441 | 6.56               | 7.0               | 1.107          | 0.009        | 0.010               |
|                                    | GFSK | Top Side      | 39        | 2441 | 6.56               | 7.0               | 1.107          | 0.013        | 0.014               |

| WLAN 5.2GHz– Body SAR Test (Gap: 0mm) |         |               |           |      |                    |                   |                |              |                     |
|---------------------------------------|---------|---------------|-----------|------|--------------------|-------------------|----------------|--------------|---------------------|
| Plot No.                              | Mode    | Test Position | Frequency |      | Output Power (dBm) | Rated Limit (dBm) | Scaling Factor | SAR1g (W/kg) | Scaled SAR1g (W/kg) |
|                                       |         |               | CH.       | MHz  |                    |                   |                |              |                     |
| 14.                                   | 802.11a | Back Face     | 36        | 5180 | 10.52              | 11.0              | 1.117          | 0.197        | 0.220               |
|                                       | 802.11a | Front Face    | 36        | 5180 | 10.52              | 11.0              | 1.117          | 0.104        | 0.116               |
|                                       | 802.11a | Left Side     | 36        | 5180 | 10.52              | 11.0              | 1.117          | 0.056        | 0.063               |
|                                       | 802.11a | Top Side      | 36        | 5180 | 10.52              | 11.0              | 1.117          | 0.084        | 0.094               |

| WLAN 5.3GHz– Body SAR Test (Gap: 0mm) |         |               |           |      |                    |                   |                |              |                     |
|---------------------------------------|---------|---------------|-----------|------|--------------------|-------------------|----------------|--------------|---------------------|
| Plot No.                              | Mode    | Test Position | Frequency |      | Output Power (dBm) | Rated Limit (dBm) | Scaling Factor | SAR1g (W/kg) | Scaled SAR1g (W/kg) |
|                                       |         |               | CH.       | MHz  |                    |                   |                |              |                     |
| 15.                                   | 802.11a | Back Face     | 56        | 5280 | 9.89               | 10.0              | 1.026          | 0.148        | <b>0.152</b>        |
|                                       | 802.11a | Front Face    | 56        | 5280 | 9.89               | 10.0              | 1.026          | 0.081        | 0.083               |
|                                       | 802.11a | Left Side     | 56        | 5280 | 9.89               | 10.0              | 1.026          | 0.048        | 0.049               |
|                                       | 802.11a | Top Side      | 56        | 5280 | 9.89               | 10.0              | 1.026          | 0.068        | 0.070               |

| WLAN 5.8GHz– Body SAR Test (Gap: 0mm) |         |               |           |      |                    |                   |                |              |                     |
|---------------------------------------|---------|---------------|-----------|------|--------------------|-------------------|----------------|--------------|---------------------|
| Plot No.                              | Mode    | Test Position | Frequency |      | Output Power (dBm) | Rated Limit (dBm) | Scaling Factor | SAR1g (W/kg) | Scaled SAR1g (W/kg) |
|                                       |         |               | CH.       | MHz  |                    |                   |                |              |                     |
| 16.                                   | 802.11a | Back Face     | 149       | 5745 | 11.28              | 11.5              | 1.052          | 0.169        | <b>0.178</b>        |
|                                       | 802.11a | Front Face    | 149       | 5745 | 11.28              | 11.5              | 1.052          | 0.093        | 0.098               |
|                                       | 802.11a | Left Side     | 149       | 5745 | 11.28              | 11.5              | 1.052          | 0.050        | 0.053               |
|                                       | 802.11a | Top Side      | 149       | 5745 | 11.28              | 11.5              | 1.052          | 0.079        | 0.083               |

**Remark:** Per KDB 447498 D01 v06, if the highest output channel SAR for each exposure position  $\leq 0.8$  W/kg other channels SAR tests are not necessary.

### 9.3 Simultaneous Multi-band Transmission SAR Analysis

#### List of Mode for Simultaneous Multi-band Transmission

| No. | Configurations                         | Body SAR |
|-----|----------------------------------------|----------|
| 1   | GSM(Voice/Data) + WLAN(2.4GHz)(Data)   | Yes      |
| 2   | WCDMA (Voice/Data)+ WLAN(2.4GHz)(Data) | Yes      |
| 3   | LTE(Data) + WLAN(2.4GHz)(Data)         | Yes      |
| 4   | GSM(Voice/Data) + WLAN(5GHz)(Data)     | Yes      |
| 5   | WCDMA (Voice/Data)+ WLAN(5GHz)(Data)   | Yes      |
| 6   | LTE(Data) + WLAN(5GHz)(Data)           | Yes      |
| 7   | GSM(Voice/Data) + Bluetooth(Data)      | Yes      |
| 8   | WCDMA (Voice/Data) + Bluetooth(Data)   | Yes      |
| 9   | LTE(Data) + Bluetooth(Data)            | Yes      |

#### Remark:

1. GSM, WCDMA and LTE share the same antenna, and cannot transmit simultaneously.
2. WLAN and Bluetooth share the same antenna, and cannot transmit simultaneously.
3. According to the KDB 447498 D01 v06, when standalone SAR test exclusion applies to an antenna that transmits simultaneously with other antennas, the standalone SAR must be estimated according to following to determine simultaneous transmission SAR test exclusion:  

$$(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm}) \cdot [\sqrt{f(\text{GHz})}/x]$$
W/kg for test separation distances  $\leq 50$  mm;  
where  $x = 7.5$  for 1-g SAR, and  $x = 18.75$  for 10-g SAR.
4. The maximum SAR summation is calculated based on the same configuration and test position.

**Body SAR****WWAN and WLAN**

|             | WWAN  |                      | WLAN(2.4GHz)         | Summed SAR<br>(W/kg) |
|-------------|-------|----------------------|----------------------|----------------------|
| Position    | Band  | Scaled SAR<br>(W/kg) | Scaled SAR<br>(W/kg) |                      |
| Back        | GSM   | <b>0.198</b>         | <b>0.068</b>         | 0.266                |
| Front       | GSM   | 0.171                | 0.059                | 0.230                |
| Right side  | GSM   | --                   | --                   | --                   |
| Left side   | GSM   | 0.100                | 0.027                | 0.127                |
| Bottom side | GSM   | 0.159                | --                   | 0.159                |
| Top side    | GSM   | --                   | 0.055                | 0.055                |
| Back        | WCDMA | <b>0.397</b>         | <b>0.068</b>         | 0.465                |
| Front       | WCDMA | 0.188                | 0.059                | 0.247                |
| Right side  | WCDMA | --                   | --                   | --                   |
| Left side   | WCDMA | 0.155                | 0.027                | 0.182                |
| Bottom side | WCDMA | 0.176                | --                   | 0.176                |
| Top side    | WCDMA | --                   | 0.055                | 0.055                |
| Back        | LTE   | <b>0.822</b>         | <b>0.068</b>         | <b>0.890</b>         |
| Front       | LTE   | 0.573                | 0.059                | 0.632                |
| Right side  | LTE   | --                   | --                   | --                   |
| Left side   | LTE   | 0.291                | 0.027                | 0.318                |
| Bottom side | LTE   | 0.359                | --                   | 0.359                |
| Top side    | LTE   | --                   | 0.055                | 0.055                |

|             | WWAN  |                      | WLAN(5GHz)           | Summed SAR<br>(W/kg) |
|-------------|-------|----------------------|----------------------|----------------------|
| Position    | Band  | Scaled SAR<br>(W/kg) | Scaled SAR<br>(W/kg) |                      |
| Back        | GSM   | <b>0.198</b>         | <b>0.220</b>         | 0.418                |
| Front       | GSM   | 0.171                | 0.116                | 0.287                |
| Right side  | GSM   | --                   | --                   | --                   |
| Left side   | GSM   | 0.100                | 0.063                | 0.163                |
| Bottom side | GSM   | 0.159                | --                   | 0.159                |
| Top side    | GSM   | --                   | 0.094                | 0.094                |
| Back        | WCDMA | <b>0.416</b>         | <b>0.220</b>         | 0.636                |
| Front       | WCDMA | 0.197                | 0.116                | 0.313                |
| Right side  | WCDMA | --                   | --                   | --                   |
| Left side   | WCDMA | 0.162                | 0.063                | 0.225                |
| Bottom side | WCDMA | 0.185                | --                   | 0.185                |
| Top side    | WCDMA | --                   | 0.094                | 0.094                |
| Back        | LTE   | <b>0.822</b>         | <b>0.220</b>         | <b>1.042</b>         |
| Front       | LTE   | 0.573                | 0.116                | 0.689                |
| Right side  | LTE   | --                   | --                   | --                   |
| Left side   | LTE   | 0.291                | 0.063                | 0.354                |
| Bottom side | LTE   | 0.359                | --                   | 0.359                |
| Top side    | LTE   | --                   | 0.094                | 0.094                |

Note: WWAN + Bluetooth test result less than the WWAN + WLAN (2.4GHz) test result, so the WWAN + Bluetooth test result is not show in the test report.

## 10. Measurement Uncertainty

### 10.1 Uncertainty for SAR Test

| a                                                                                     | b     | c             | d              | e= f(d,k)  | f                | g                | h= c*f/e       | i= c*g/e        | k        |
|---------------------------------------------------------------------------------------|-------|---------------|----------------|------------|------------------|------------------|----------------|-----------------|----------|
| Uncertainty Component                                                                 | Sec.  | Tol<br>(+- %) | Prob.<br>Dist. | Div.       | Ci (1g)          | Ci (10g)         | 1g Ui<br>(+-%) | 10g Ui<br>(+-%) | Vi       |
| <b>Measurement System</b>                                                             |       |               |                |            |                  |                  |                |                 |          |
| Probe calibration                                                                     | E.2.1 | 7.0           | N              | 1          | 1                | 1                | 7.00           | 7.00            | $\infty$ |
| Axial Isotropy                                                                        | E.2.2 | 2.5           | R              | $\sqrt{3}$ | $(1_{Cp})^{1/2}$ | $(1_{Cp})^{1/2}$ | 1.02           | 1.02            | $\infty$ |
| Hemispherical Isotropy                                                                | E.2.2 | 4.0           | R              | $\sqrt{3}$ | $(Cp)^{1/2}$     | $(Cp)^{1/2}$     | 1.63           | 1.63            | $\infty$ |
| Boundary effect                                                                       | E.2.3 | 1.0           | R              | $\sqrt{3}$ | 1                | 1                | 0.58           | 0.58            | $\infty$ |
| Linearity                                                                             | E.2.4 | 5.0           | R              | $\sqrt{3}$ | 1                | 1                | 2.89           | 2.89            | $\infty$ |
| System detection limits                                                               | E.2.5 | 1.0           | R              | $\sqrt{3}$ | 1                | 1                | 0.58           | 0.58            | $\infty$ |
| Readout Electronics                                                                   | E.2.6 | 0.02          | N              | 1          | 1                | 1                | 0.02           | 0.02            | $\infty$ |
| Reponse Time                                                                          | E.2.7 | 3.0           | R              | $\sqrt{3}$ | 1                | 1                | 1.73           | 1.73            | $\infty$ |
| Integration Time                                                                      | E.2.8 | 2.0           | R              | $\sqrt{3}$ | 1                | 1                | 1.15           | 1.15            | $\infty$ |
| RF ambient Conditions – Noise                                                         | E.6.1 | 0             | R              | $\sqrt{3}$ | 1                | 1                | 1.73           | 1.73            | $\infty$ |
| RF ambient Conditions -<br>Reflections                                                | E.6.1 | 0             | R              | $\sqrt{3}$ | 1                | 1                | 1.73           | 1.73            | $\infty$ |
| Probe positioner Mechanical<br>Tolerance                                              | E.6.2 | 2.0           | R              | $\sqrt{3}$ | 1                | 1                | 1.15           | 1.15            | $\infty$ |
| Probe positioning with respect to<br>Phantom Shell                                    | E.6.3 | 0.05          | R              | $\sqrt{3}$ | 1                | 1                | 0.03           | 0.03            | $\infty$ |
| Extrapolation, interpolation and<br>integration Algorithms for Max.<br>SAR Evaluation | E.5   | 5.0           | R              | $\sqrt{3}$ | 1                | 1                | 2.89           | 2.89            | $\infty$ |
| <b>Test Sample Related</b>                                                            |       |               |                |            |                  |                  |                |                 |          |
| Test sample positioning                                                               | E.4.2 | 0.03          | N              | 1          | 1                | 1                | 0.03           | 0.03            | N-1      |
| Device Holder Uncertainty                                                             | E.4.1 | 5.00          | N              | 1          | 1                | 1                | 5.00           | 5.00            |          |
| Output power Variation - SAR<br>drift measurement                                     | E.2.9 | 12.02         | R              | $\sqrt{3}$ | 1                | 1                | 6.94           | 6.94            | $\infty$ |
| SAR scaling                                                                           | E6.5  | 0.0           | R              | $\sqrt{3}$ | 1                | 1                | 0.0            | 0.0             | $\infty$ |
| <b>Phantom and Tissue Parameters</b>                                                  |       |               |                |            |                  |                  |                |                 |          |
| Phantom Uncertainty (Shape and<br>thickness tolerances)                               | E.3.1 | 0.05          | R              | $\sqrt{3}$ | 1                | 1                | 0.03           | 0.03            | $\infty$ |
| Uncertainty in SAR correction for<br>deviations in permittivity and<br>conductivity   | E3.2  | 1.9           | R              | $\sqrt{3}$ | 1                | 0.84             | 1.10           | 0.90            | $\infty$ |

|                                                   |       |      |     |            |      |      |       |       |          |
|---------------------------------------------------|-------|------|-----|------------|------|------|-------|-------|----------|
| Liquid conductivity - deviation from target value | E.3.2 | 0    | R   | $\sqrt{3}$ | 0    | 0.43 | 0     | 0     | $\infty$ |
| Liquid conductivity - measurement uncertainty     | E.3.3 | 4.00 | N   | 1          | 0.64 | 0.43 | 1.10  | 1.10  | $\infty$ |
| Liquid permittivity - deviation from target value | E.3.2 | 0    | R   | $\sqrt{3}$ | 0    | 0.49 | 0     | 0     | $\infty$ |
| Liquid permittivity - measurement uncertainty     | E.3.3 | 5.00 | N   | 1          | 0.6  | 0.49 | 1.47  | 1.47  | $\infty$ |
| Combined Standard Uncertainty                     |       |      | RSS |            |      |      | 10.20 | 10.00 |          |
| Expanded Uncertainty (95% Confidence interval)    |       |      | K=2 |            |      |      | 20.40 | 20.00 |          |



Annex A. Plots of System Performance Check

MEASUREMENT 1

Type: Validation measurement (Fast, 75.00 %)  
Date of measurement: 2023-09-08  
Measurement duration: 12 minutes 21 seconds  
E-field Probe: SSE2 - SN 18/21 EPGO356; ConvF: 1.71; Calibrated: 2023-07-07

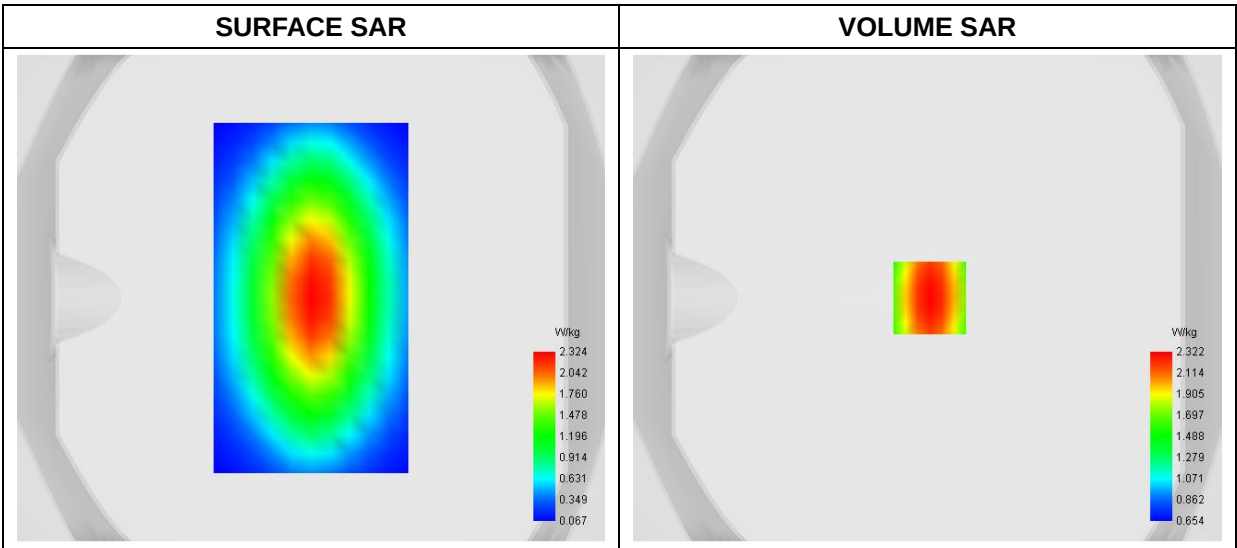
A. Experimental conditions

|                 |                      |
|-----------------|----------------------|
| Area Scan       | dx=8mm dy=8mm        |
| Zoom Scan       | dx=5mm dy=5mm dz=4mm |
| Phantom         | Validation plane     |
| Device Position | Dipole               |
| Band            | CW835                |
| Signal          | Duty Cycle 1:1       |

B. SAR Measurement Results

|                                   |            |
|-----------------------------------|------------|
| Frequency (MHz)                   | 835.000000 |
| Relative Permittivity (real part) | 41.342489  |
| Conductivity (S/m)                | 0.921417   |
| Power Variation (%)               | -1.884700  |
| Ambient Temperature               | 22.2       |
| Liquid Temperature                | 22.2       |

C. SAR Surface and Volume

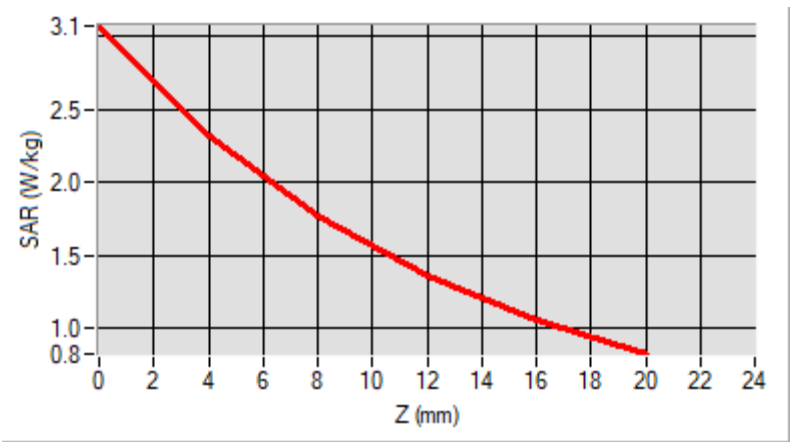


Maximum location: X=1.00, Y=0.00  
D. SAR 1g & 10g

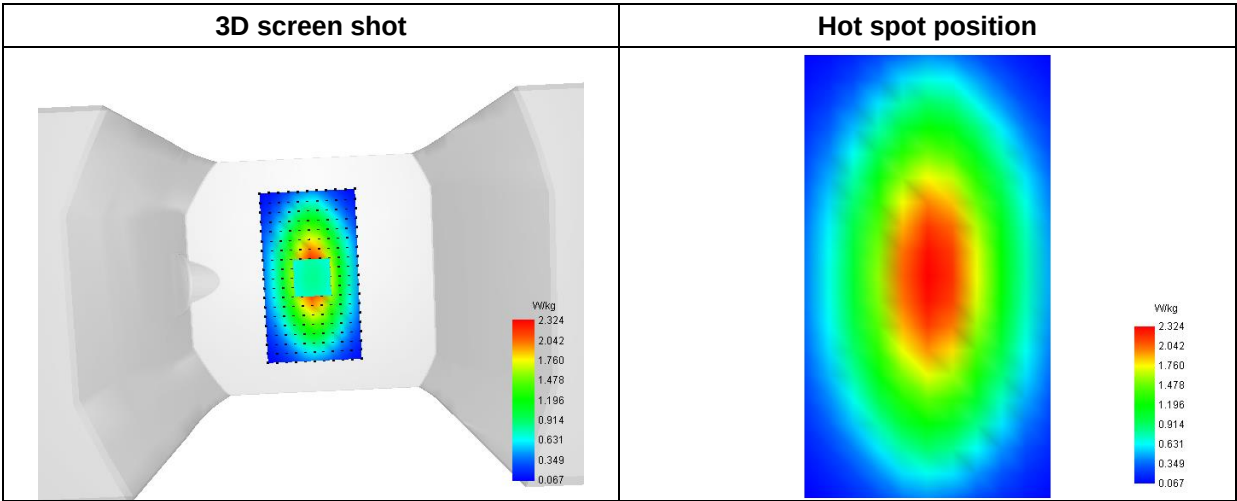
|                |          |
|----------------|----------|
| SAR 10g (W/Kg) | 1.527360 |
| SAR 1g (W/Kg)  | 2.210386 |

E. Z Axis Scan

|            |        |        |        |        |        |
|------------|--------|--------|--------|--------|--------|
| Z (mm)     | 0.00   | 4.00   | 8.00   | 12.00  | 16.00  |
| SAR (W/Kg) | 3.0677 | 2.3224 | 1.7644 | 1.3585 | 1.0631 |



F. 3D Image



MEASUREMENT 2

Type: Validation measurement (Fast, 75.00 %)  
Date of measurement: 2023-09-08  
Measurement duration: 12 minutes 21 seconds  
E-field Probe: SSE2 - SN 18/21 EPGO356; ConvF: 1.88; Calibrated: 2023-07-07

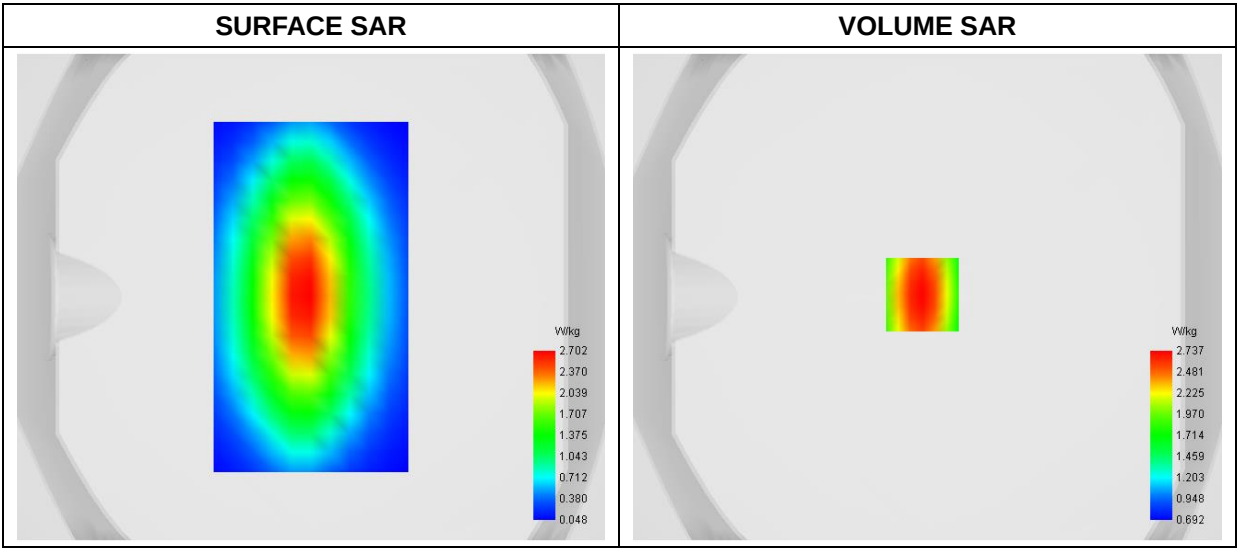
A. Experimental conditions

|                 |                        |
|-----------------|------------------------|
| Area Scan       | dx=8mm dy=8mm          |
| Zoom Scan       | dx=5mm dy=5mm dz=4mm   |
| Phantom         | Validation plane       |
| Device Position | Dipole                 |
| Band            | CW900                  |
| Signal          | CW (Crest factor: 1.0) |

B. SAR Measurement Results

|                                   |            |
|-----------------------------------|------------|
| Frequency (MHz)                   | 900.000000 |
| Relative Permittivity (real part) | 41.674419  |
| Conductivity (S/m)                | 0.944641   |
| Power Variation (%)               | -1.815400  |
| Ambient Temperature               | 22.2       |
| Liquid Temperature                | 22.2       |

C. SAR Surface and Volume

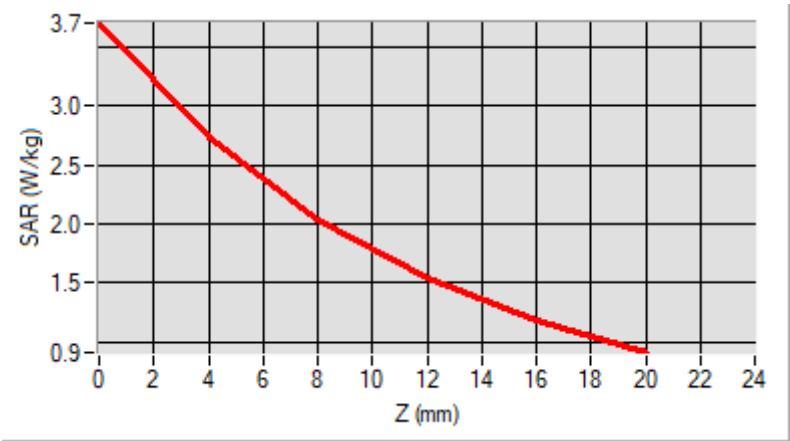


Maximum location: X=-2.00, Y=1.00  
D. SAR 1g & 10g

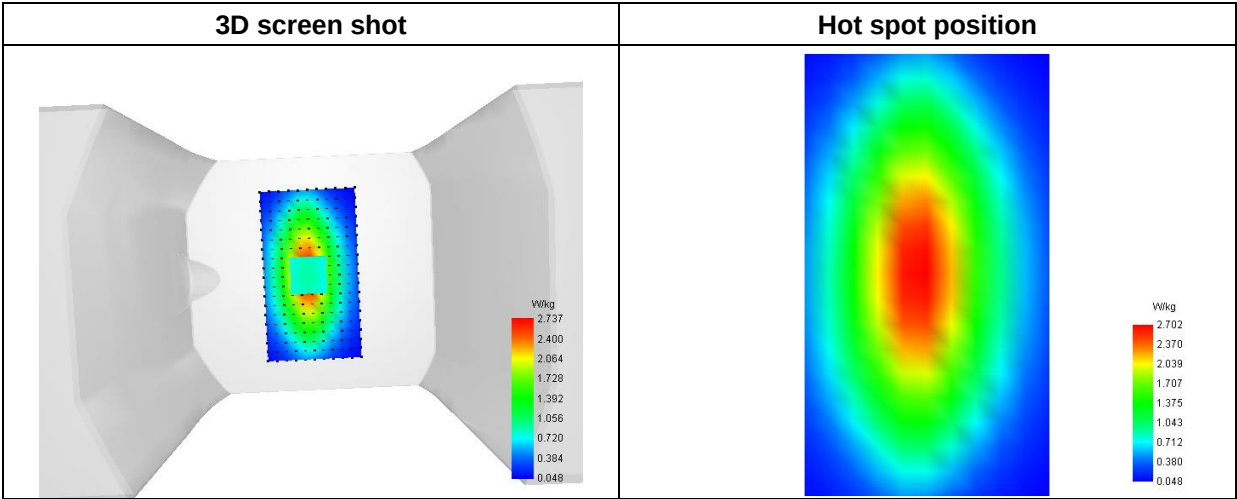
|                |          |
|----------------|----------|
| SAR 10g (W/Kg) | 1.749492 |
| SAR 1g (W/Kg)  | 2.595666 |

E. Z Axis Scan

|            |        |        |        |        |        |
|------------|--------|--------|--------|--------|--------|
| Z (mm)     | 0.00   | 4.00   | 8.00   | 12.00  | 16.00  |
| SAR (W/Kg) | 3.7015 | 2.7365 | 2.0319 | 1.5344 | 1.1839 |



F. 3D Image



MEASUREMENT 3

Type: Validation measurement (Fast, 75.00 %)  
Date of measurement: 2023-09-09  
Measurement duration: 12 minutes 21 seconds  
E-field Probe: SSE2 - SN 18/21 EPGO356; ConvF: 2.11; Calibrated: 2023-07-07

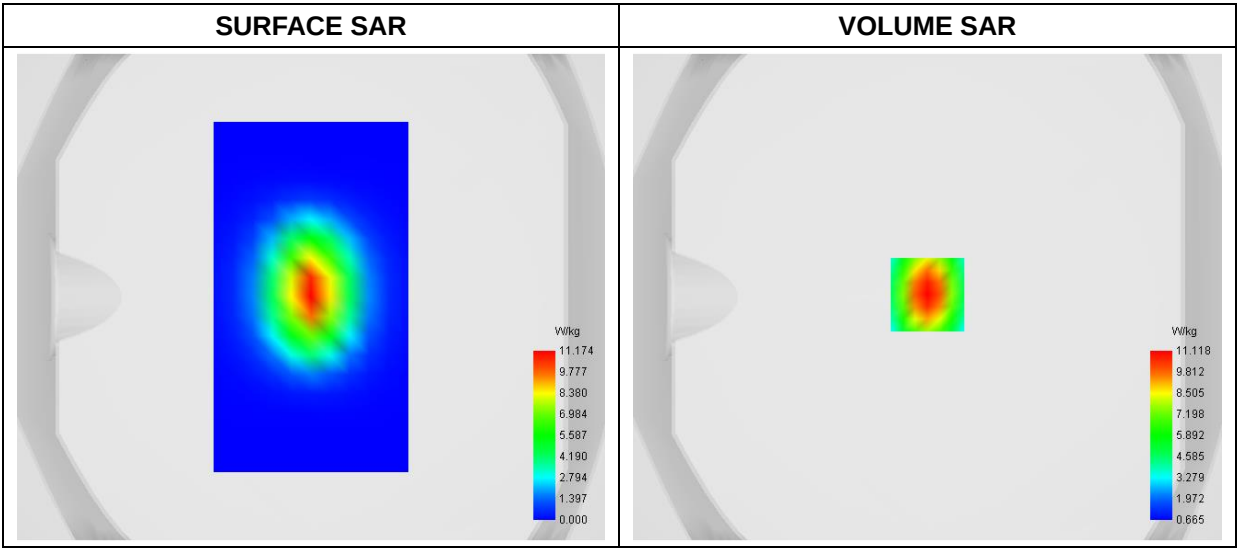
A. Experimental conditions

|                 |                        |
|-----------------|------------------------|
| Area Scan       | dx=8mm dy=8mm          |
| Zoom Scan       | dx=5mm dy=5mm dz=4mm   |
| Phantom         | Validation plane       |
| Device Position | Dipole                 |
| Band            | CW1800                 |
| Signal          | CW (Crest factor: 1.0) |

B. SAR Measurement Results

|                                   |             |
|-----------------------------------|-------------|
| Frequency (MHz)                   | 1800.000000 |
| Relative Permittivity (real part) | 41.114472   |
| Conductivity (S/m)                | 1.381485    |
| Power Variation (%)               | 1.425800    |
| Ambient Temperature               | 22.4        |
| Liquid Temperature                | 22.4        |

C. SAR Surface and Volume

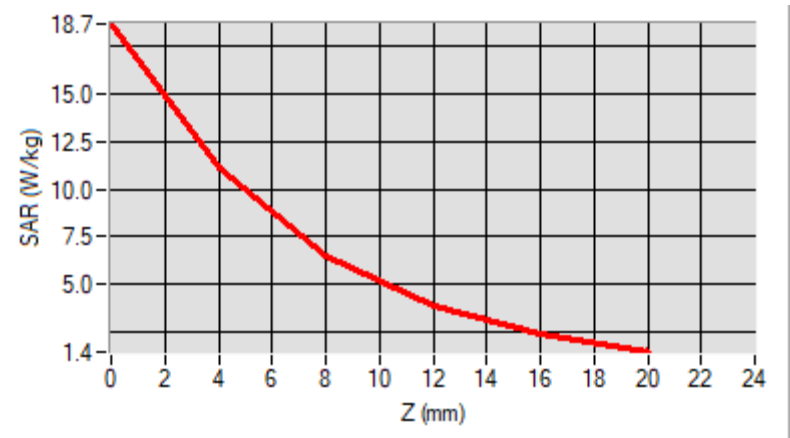


Maximum location: X=0.00, Y=1.00  
D. SAR 1g & 10g

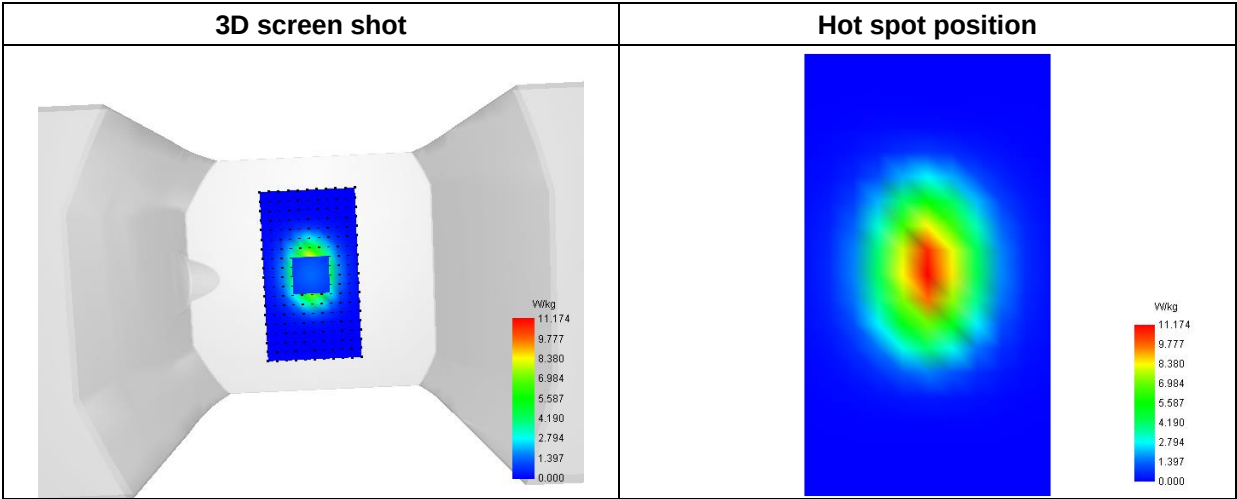
|                |           |
|----------------|-----------|
| SAR 10g (W/Kg) | 5.260825  |
| SAR 1g (W/Kg)  | 10.222516 |

E. Z Axis Scan

|            |         |         |        |        |        |
|------------|---------|---------|--------|--------|--------|
| Z (mm)     | 0.00    | 4.00    | 8.00   | 12.00  | 16.00  |
| SAR (W/Kg) | 18.6940 | 11.1182 | 6.4717 | 3.8103 | 2.3414 |



F. 3D Image



MEASUREMENT 4

Type: Validation measurement (Fast, 75.00 %)  
Date of measurement: 2023-09-09  
Measurement duration: 12 minutes 21 seconds  
E-field Probe: SSE2 - SN 18/21 EPGO356; ConvF: 2.41; Calibrated: 2023-07-07

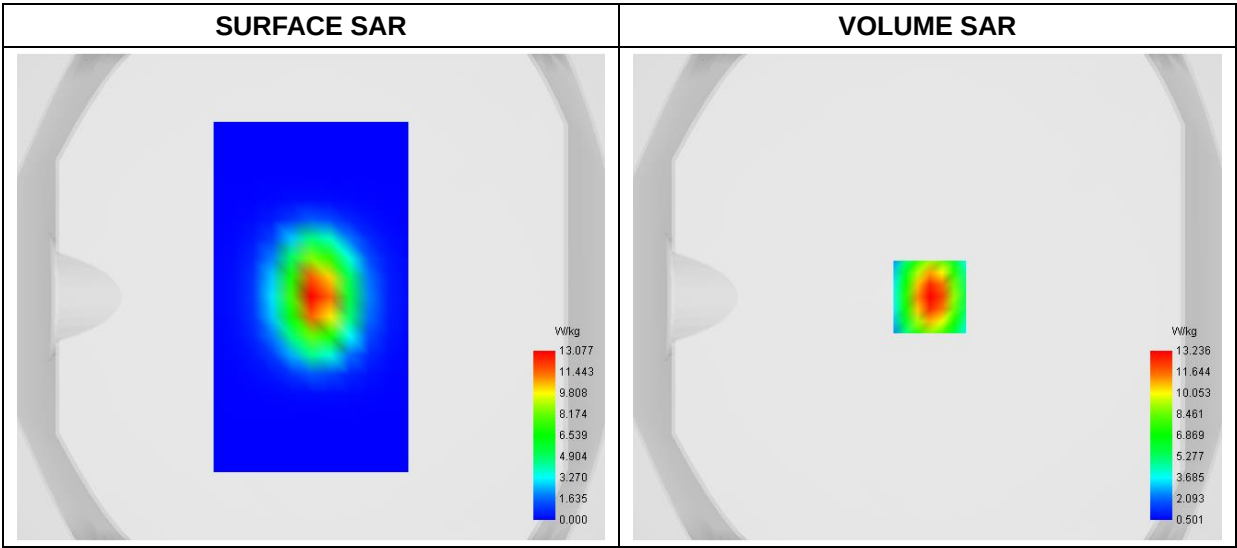
A. Experimental conditions

|                 |                        |
|-----------------|------------------------|
| Area Scan       | dx=8mm dy=8mm          |
| Zoom Scan       | dx=5mm dy=5mm dz=4mm   |
| Phantom         | Validation plane       |
| Device Position | Dipole                 |
| Band            | CW2300                 |
| Signal          | CW (Crest factor: 1.0) |

B. SAR Measurement Results

|                                   |             |
|-----------------------------------|-------------|
| Frequency (MHz)                   | 2300.000000 |
| Relative Permittivity (real part) | 40.423829   |
| Conductivity (S/m)                | 1.632785    |
| Power Variation (%)               | -1.128500   |
| Ambient Temperature               | 22.4        |
| Liquid Temperature                | 22.4        |

C. SAR Surface and Volume

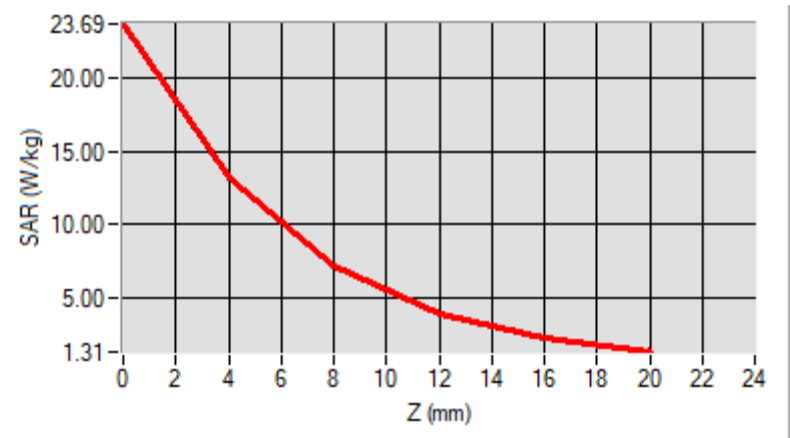


Maximum location: X=1.00, Y=0.00  
D. SAR 1g & 10g

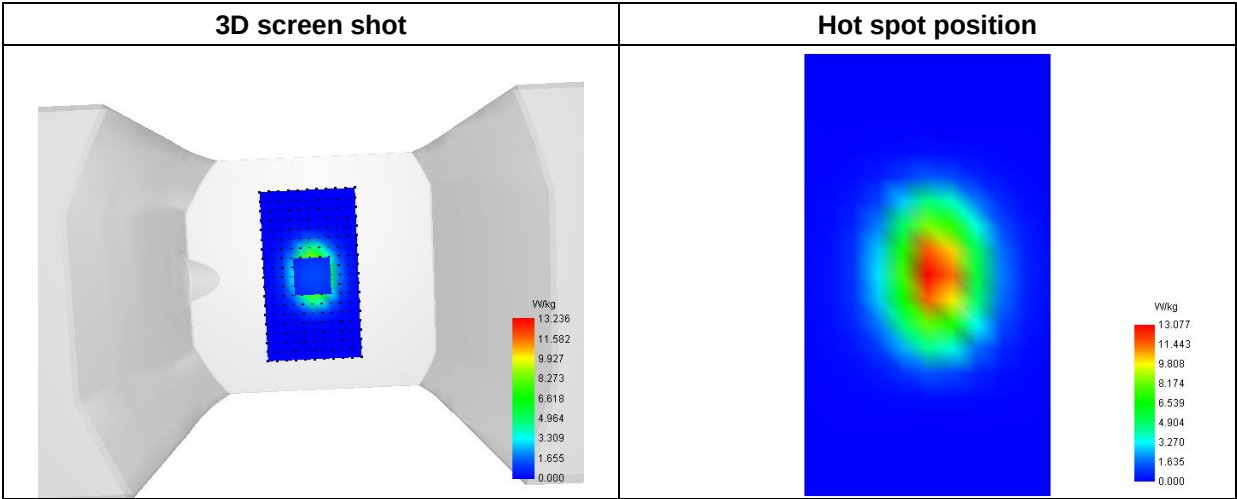
|                |           |
|----------------|-----------|
| SAR 10g (W/Kg) | 5.846344  |
| SAR 1g (W/Kg)  | 12.126085 |

E. Z Axis Scan

|            |         |         |        |        |        |
|------------|---------|---------|--------|--------|--------|
| Z (mm)     | 0.00    | 4.00    | 8.00   | 12.00  | 16.00  |
| SAR (W/Kg) | 23.6924 | 13.2363 | 7.1523 | 3.9032 | 2.2625 |



F. 3D Image





MEASUREMENT 5

Type: Validation measurement (Fast, 75.00 %)  
Date of measurement: 2023-09-11  
Measurement duration: 12 minutes 21 seconds  
E-field Probe: SSE2 - SN 18/21 EPGO356; ConvF: 2.29; Calibrated: 2023-07-07

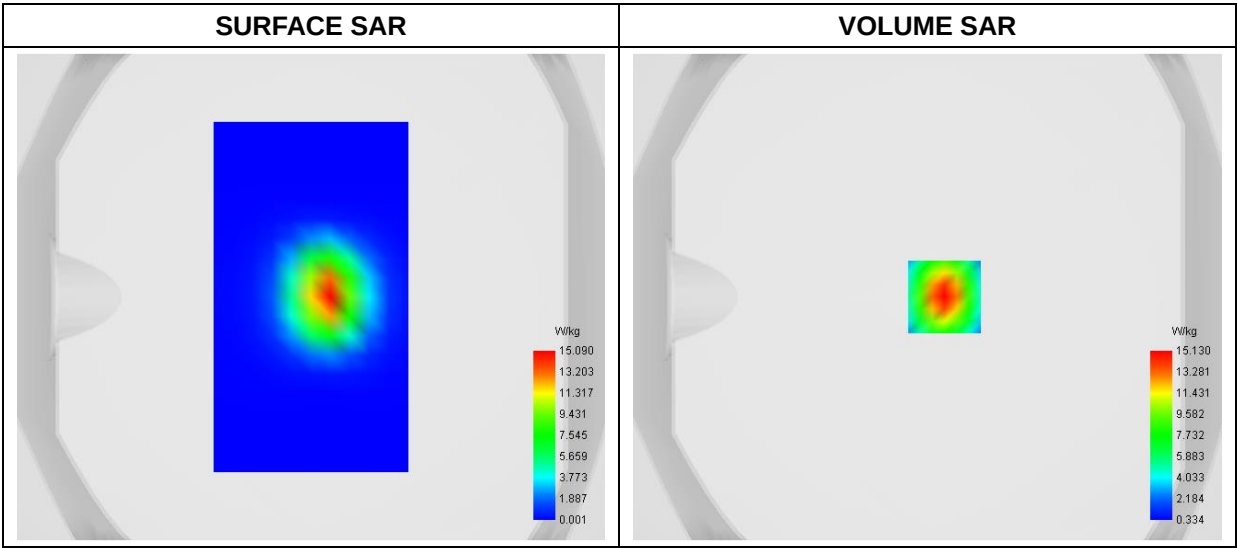
A. Experimental conditions

|                 |                        |
|-----------------|------------------------|
| Area Scan       | dx=8mm dy=8mm          |
| Zoom Scan       | dx=5mm dy=5mm dz=4mm   |
| Phantom         | Validation plane       |
| Device Position | Dipole                 |
| Band            | CW2450                 |
| Signal          | CW (Crest factor: 1.0) |

B. SAR Measurement Results

|                                   |             |
|-----------------------------------|-------------|
| Frequency (MHz)                   | 2450.000000 |
| Relative Permittivity (real part) | 40.262289   |
| Conductivity (S/m)                | 1.751828    |
| Power Variation (%)               | 1.475200    |
| Ambient Temperature               | 22.1        |
| Liquid Temperature                | 22.1        |

C. SAR Surface and Volume

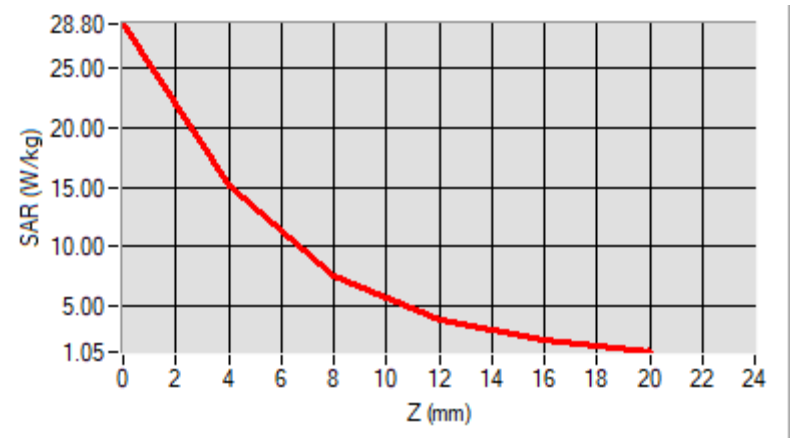


Maximum location: X=7.00, Y=0.00  
D. SAR 1g & 10g

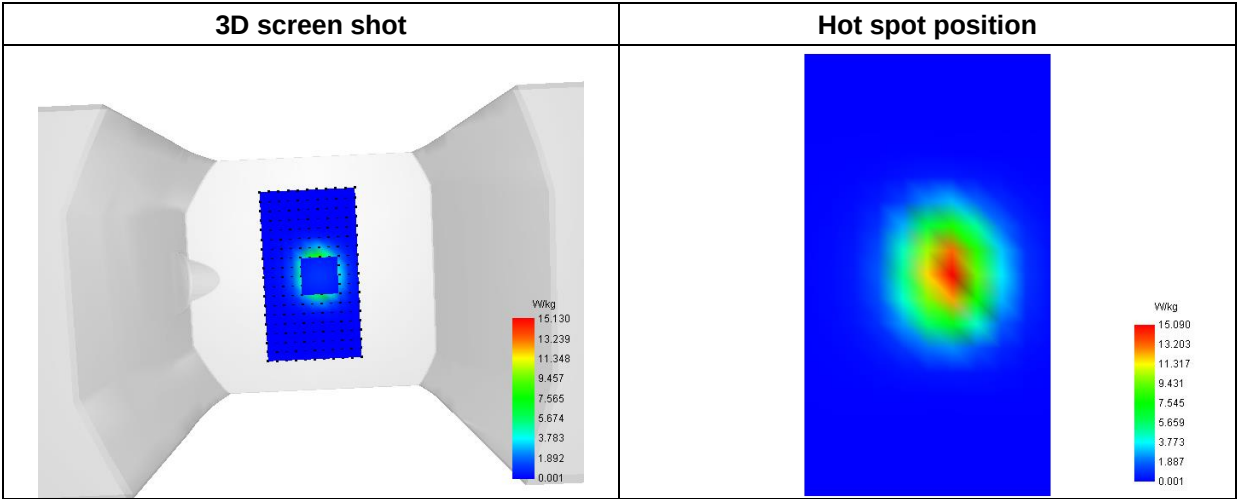
|                |           |
|----------------|-----------|
| SAR 10g (W/Kg) | 6.149024  |
| SAR 1g (W/Kg)  | 13.746586 |

E. Z Axis Scan

|            |         |         |        |        |        |
|------------|---------|---------|--------|--------|--------|
| Z (mm)     | 0.00    | 4.00    | 8.00   | 12.00  | 16.00  |
| SAR (W/Kg) | 28.7959 | 15.1301 | 7.5430 | 3.7436 | 1.9810 |



F. 3D Image



MEASUREMENT 6

Type: Validation measurement (Fast, 75.00 %)  
Date of measurement: 2023-09-11  
Measurement duration: 12 minutes 21 seconds  
E-field Probe: SSE2 - SN 18/21 EPGO356; ConvF: 2.22; Calibrated: 2023-07-07

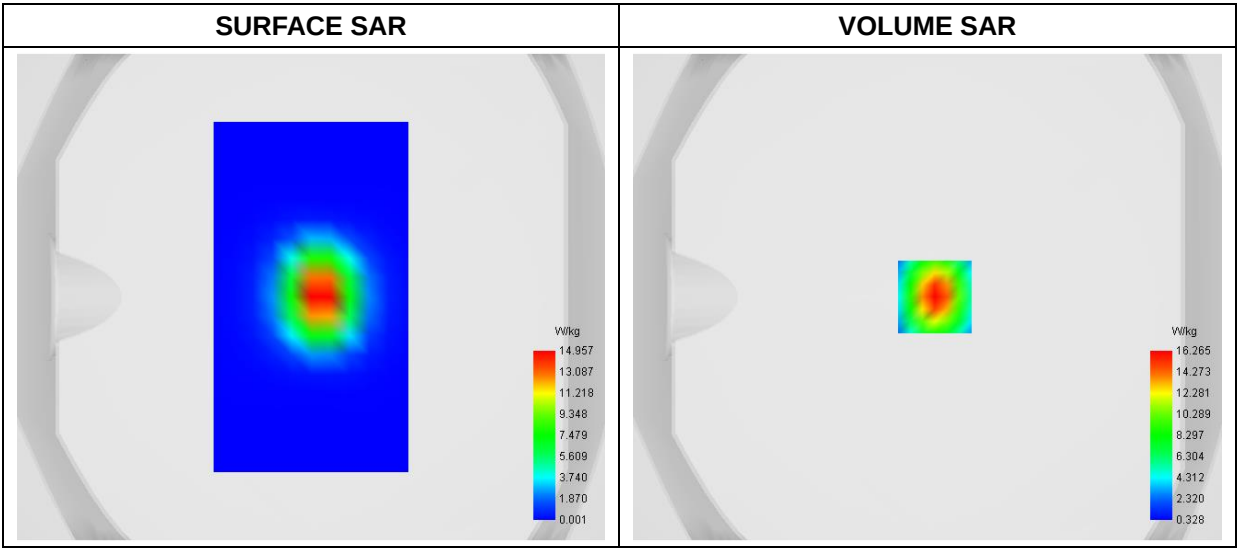
A. Experimental conditions

|                 |                        |
|-----------------|------------------------|
| Area Scan       | dx=8mm dy=8mm          |
| Zoom Scan       | dx=5mm dy=5mm dz=4mm   |
| Phantom         | Validation plane       |
| Device Position | Dipole                 |
| Band            | CW2600                 |
| Signal          | CW (Crest factor: 1.0) |

B. SAR Measurement Results

|                                   |             |
|-----------------------------------|-------------|
| Frequency (MHz)                   | 2600.000000 |
| Relative Permittivity (real part) | 38.683724   |
| Conductivity (S/m)                | 1.932958    |
| Power Variation (%)               | 1.343100    |
| Ambient Temperature               | 22.1        |
| Liquid Temperature                | 22.1        |

C. SAR Surface and Volume



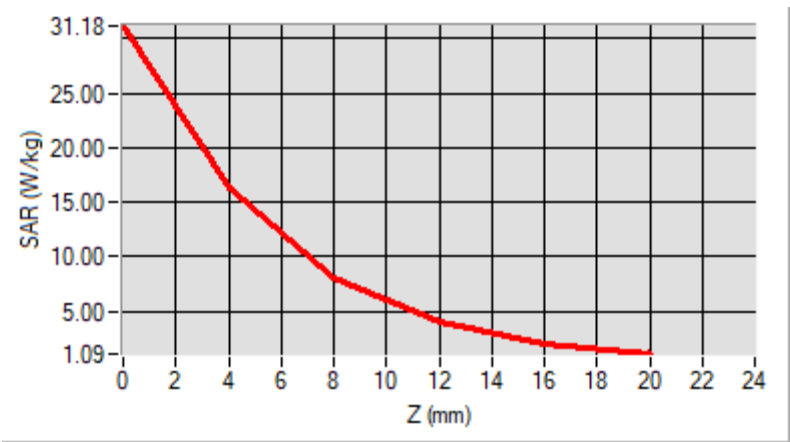
Maximum location: X=3.00, Y=0.00

D. SAR 1g & 10g

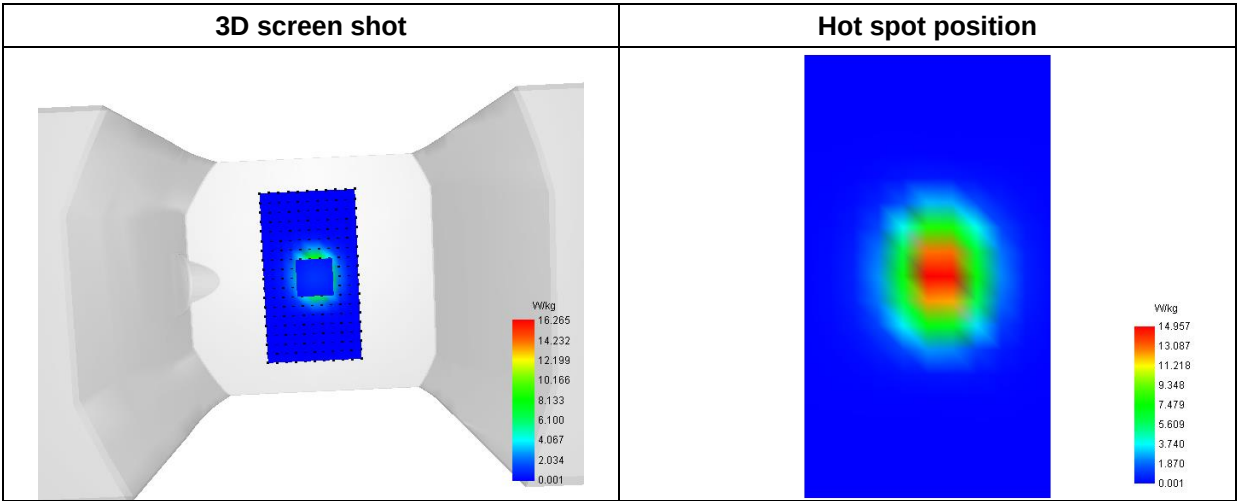
|                |           |
|----------------|-----------|
| SAR 10g (W/Kg) | 6.553727  |
| SAR 1g (W/Kg)  | 14.814545 |

E. Z Axis Scan

|            |         |         |        |        |        |
|------------|---------|---------|--------|--------|--------|
| Z (mm)     | 0.00    | 4.00    | 8.00   | 12.00  | 16.00  |
| SAR (W/Kg) | 31.1802 | 16.2650 | 8.0339 | 3.9472 | 2.0732 |



F. 3D Image



MEASUREMENT 7

Type: Validation measurement (Fast, 75.00 %)  
Date of measurement: 2023-09-13  
Measurement duration: 12 minutes 21 seconds  
E-field Probe: SSE2 - SN 18/21 EPGO356; ConvF: 2.22; Calibrated: 2023-07-07

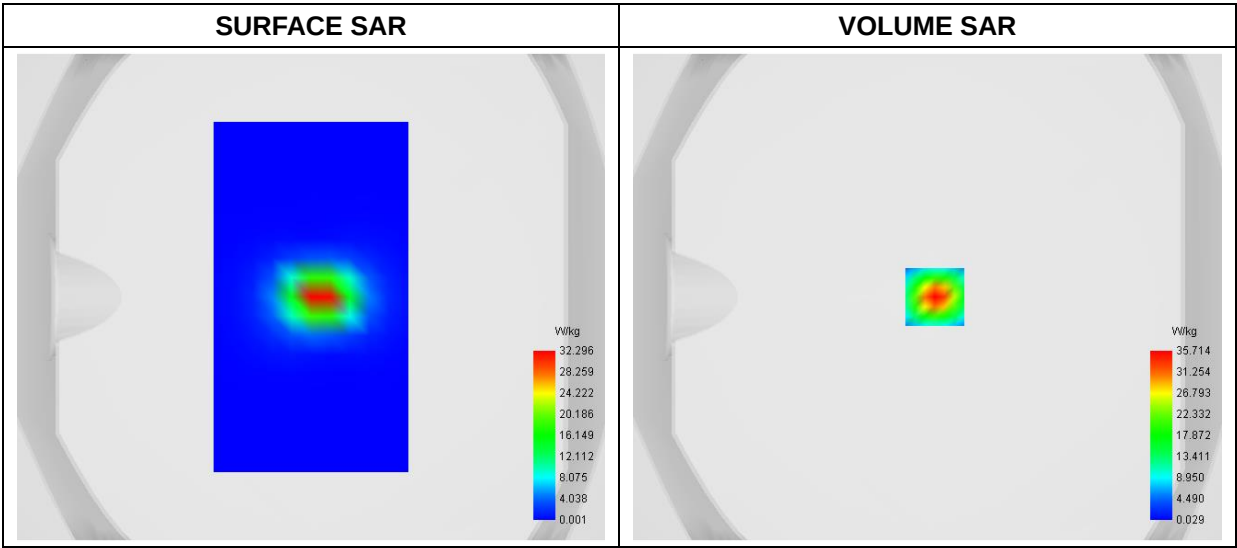
A. Experimental conditions

|                 |                        |
|-----------------|------------------------|
| Area Scan       | dx=8mm dy=8mm          |
| Zoom Scan       | dx=4mm dy=4mm dz=2mm   |
| Phantom         | Validation plane       |
| Device Position | Dipole                 |
| Band            | CW5200                 |
| Signal          | CW (Crest factor: 1.0) |

B. SAR Measurement Results

|                                   |             |
|-----------------------------------|-------------|
| Frequency (MHz)                   | 5200.000000 |
| Relative Permittivity (real part) | 35.984716   |
| Conductivity (S/m)                | 4.612958    |
| Power Variation (%)               | 1.343100    |
| Ambient Temperature               | 22.3        |
| Liquid Temperature                | 22.3        |

C. SAR Surface and Volume

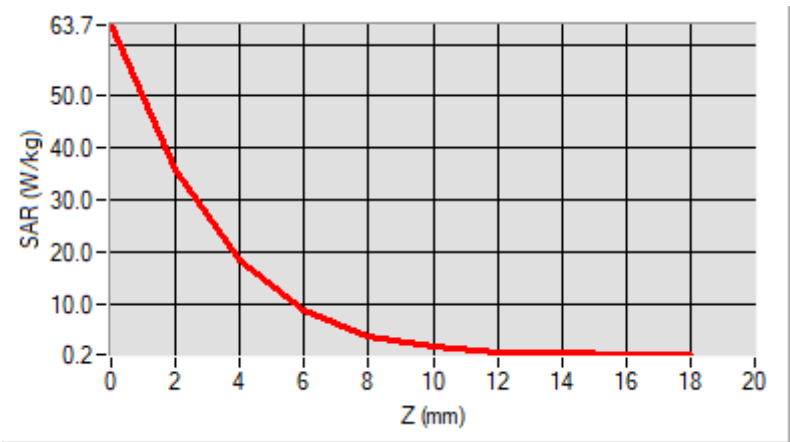


Maximum location: X=3.00, Y=0.00  
D. SAR 1g & 10g

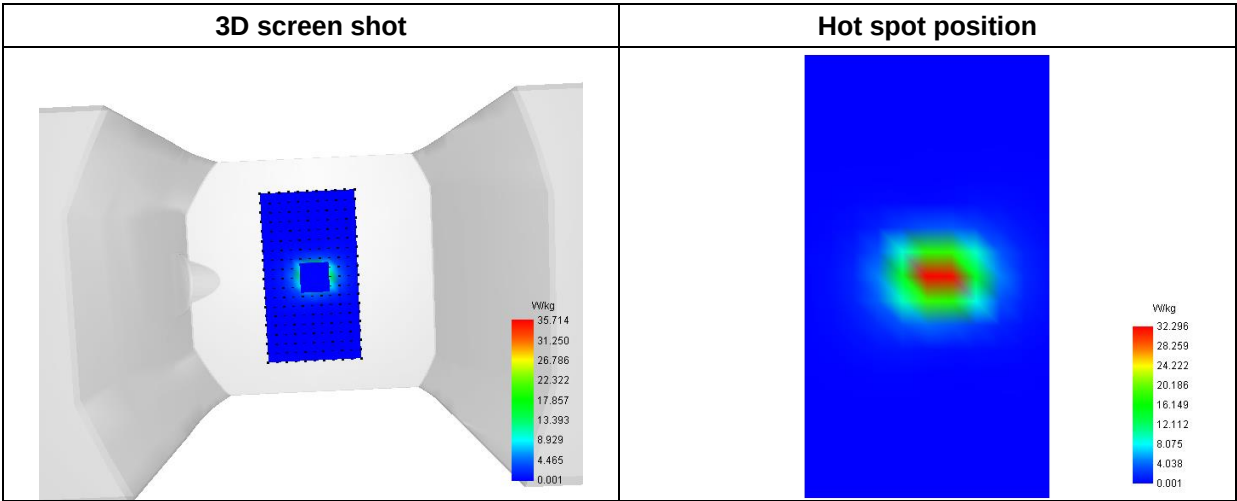
|                |           |
|----------------|-----------|
| SAR 10g (W/Kg) | 5.214336  |
| SAR 1g (W/Kg)  | 18.566732 |

E. Z Axis Scan

|            |        |        |        |        |        |        |        |        |        |
|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Z (mm)     | 0.00   | 2.00   | 4.00   | 6.00   | 8.00   | 10.00  | 12.00  | 14.00  | 16.00  |
| SAR (W/Kg) | 63.694 | 35.714 | 18.361 | 8.6368 | 3.8326 | 1.6405 | 0.7180 | 0.3557 | 0.2183 |
|            | 0      | 3      | 9      |        |        |        |        |        |        |



F. 3D Image



MEASUREMENT 8

Type: Validation measurement (Fast, 75.00 %)  
Date of measurement: 2023-09-13  
Measurement duration: 12 minutes 21 seconds  
E-field Probe: SSE2 - SN 18/21 EPGO356; ConvF: 2.22; Calibrated: 2023-07-07

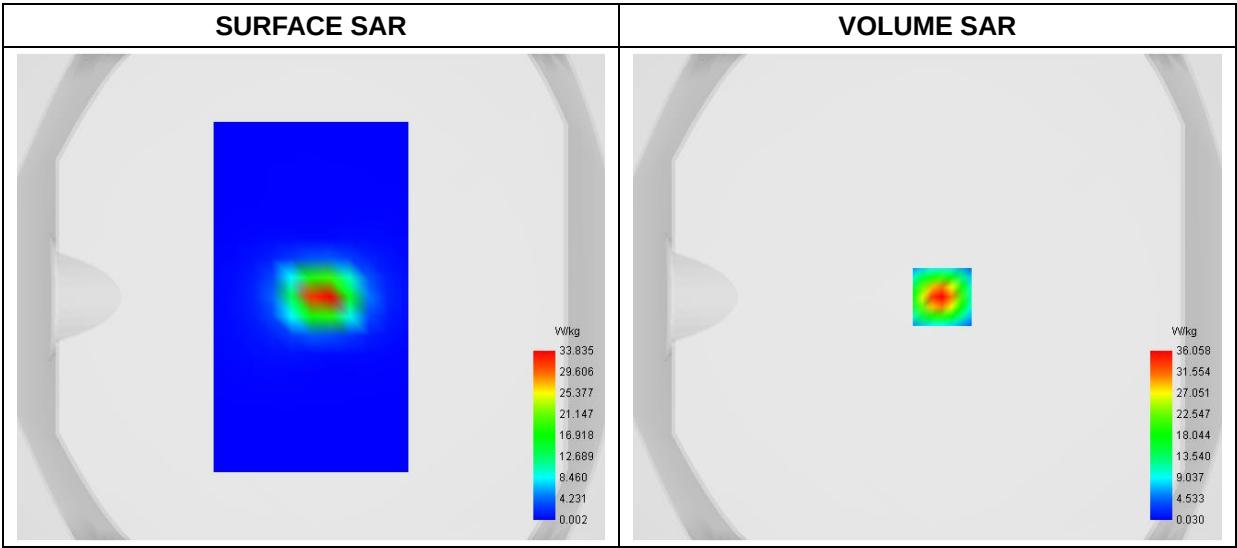
A. Experimental conditions

|                 |                        |
|-----------------|------------------------|
| Area Scan       | dx=8mm dy=8mm          |
| Zoom Scan       | dx=4mm dy=4mm dz=2mm   |
| Phantom         | Validation plane       |
| Device Position | Dipole                 |
| Band            | CW5400                 |
| Signal          | CW (Crest factor: 1.0) |

B. SAR Measurement Results

|                                   |             |
|-----------------------------------|-------------|
| Frequency (MHz)                   | 5400.000000 |
| Relative Permittivity (real part) | 35.543371   |
| Conductivity (S/m)                | 4.831958    |
| Power Variation (%)               | 1.343100    |
| Ambient Temperature               | 22.3        |
| Liquid Temperature                | 22.3        |

C. SAR Surface and Volume

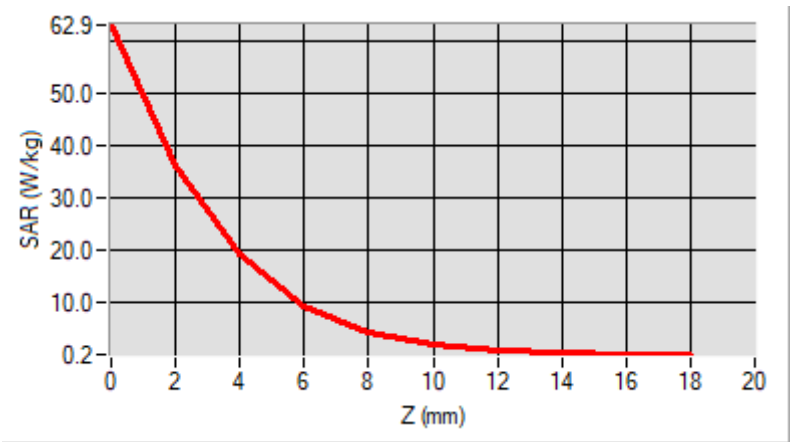


Maximum location: X=6.00, Y=0.00  
D. SAR 1g & 10g

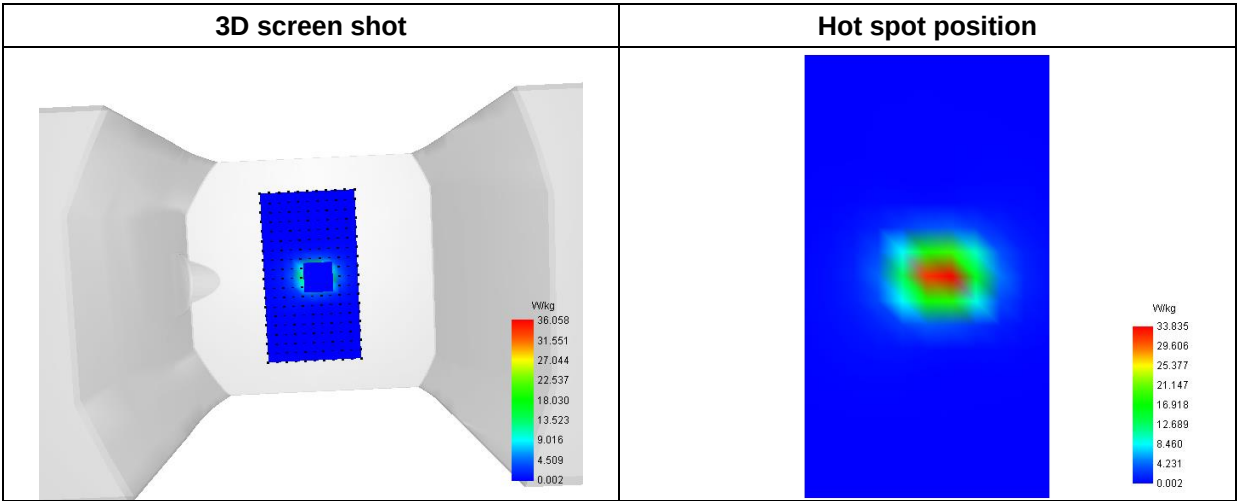
|                |           |
|----------------|-----------|
| SAR 10g (W/Kg) | 5.463589  |
| SAR 1g (W/Kg)  | 18.979345 |

E. Z Axis Scan

|            |        |        |        |        |        |        |        |        |        |
|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Z (mm)     | 0.00   | 2.00   | 4.00   | 6.00   | 8.00   | 10.00  | 12.00  | 14.00  | 16.00  |
| SAR (W/Kg) | 62.945 | 36.057 | 19.161 | 9.4529 | 4.4747 | 2.0809 | 0.9976 | 0.5283 | 0.3243 |
|            | 6      | 9      | 7      |        |        |        |        |        |        |



F. 3D Image





MEASUREMENT 9

Type: Validation measurement (Fast, 75.00 %)  
Date of measurement: 2023-09-13  
Measurement duration: 12 minutes 21 seconds  
E-field Probe: SSE2 - SN 18/21 EPGO356; ConvF: 2.22; Calibrated: 2023-07-07

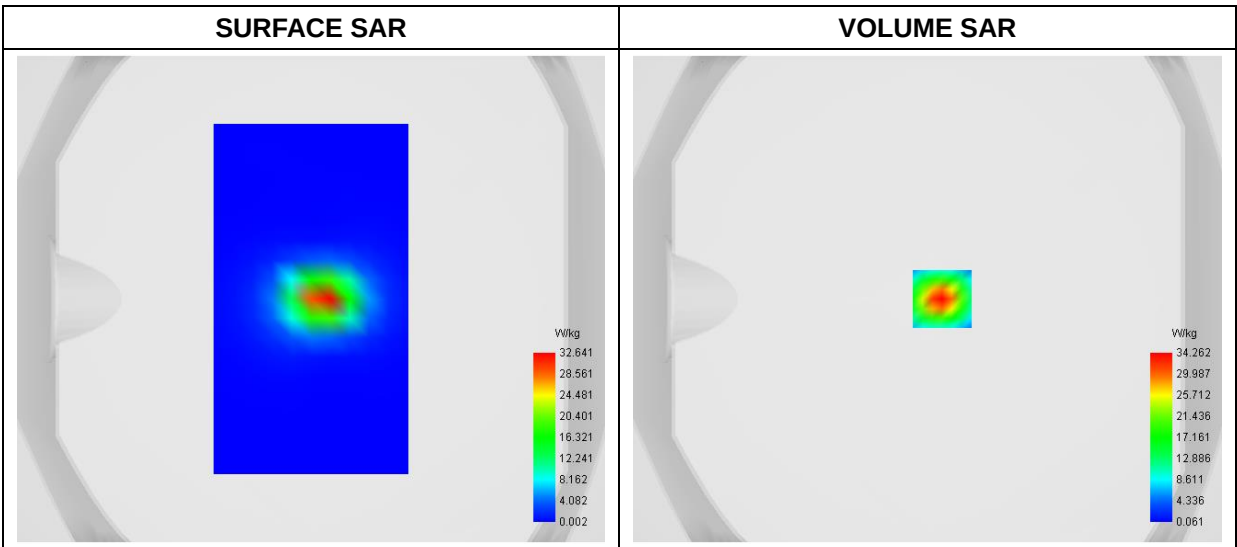
A. Experimental conditions

|                 |                        |
|-----------------|------------------------|
| Area Scan       | dx=8mm dy=8mm          |
| Zoom Scan       | dx=4mm dy=4mm dz=2mm   |
| Phantom         | Validation plane       |
| Device Position | Dipole                 |
| Band            | CW5800                 |
| Signal          | CW (Crest factor: 1.0) |

B. SAR Measurement Results

|                                   |             |
|-----------------------------------|-------------|
| Frequency (MHz)                   | 5800.000000 |
| Relative Permittivity (real part) | 35.264712   |
| Conductivity (S/m)                | 5.242958    |
| Power Variation (%)               | 1.343100    |
| Ambient Temperature               | 22.3        |
| Liquid Temperature                | 22.3        |

C. SAR Surface and Volume

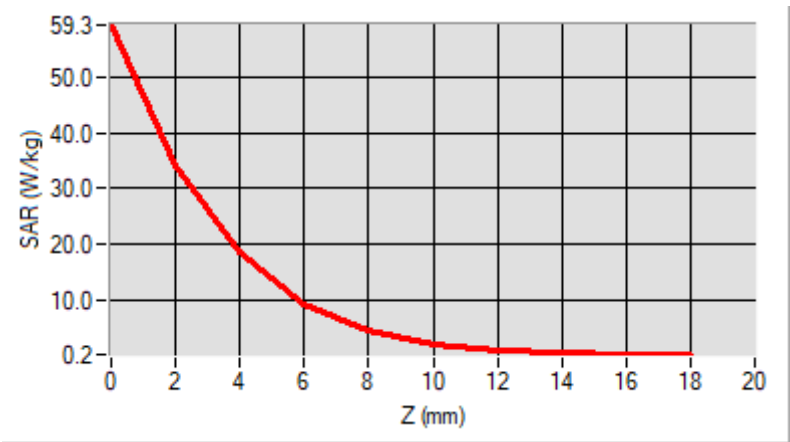


Maximum location: X=6.00, Y=0.00  
D. SAR 1g & 10g

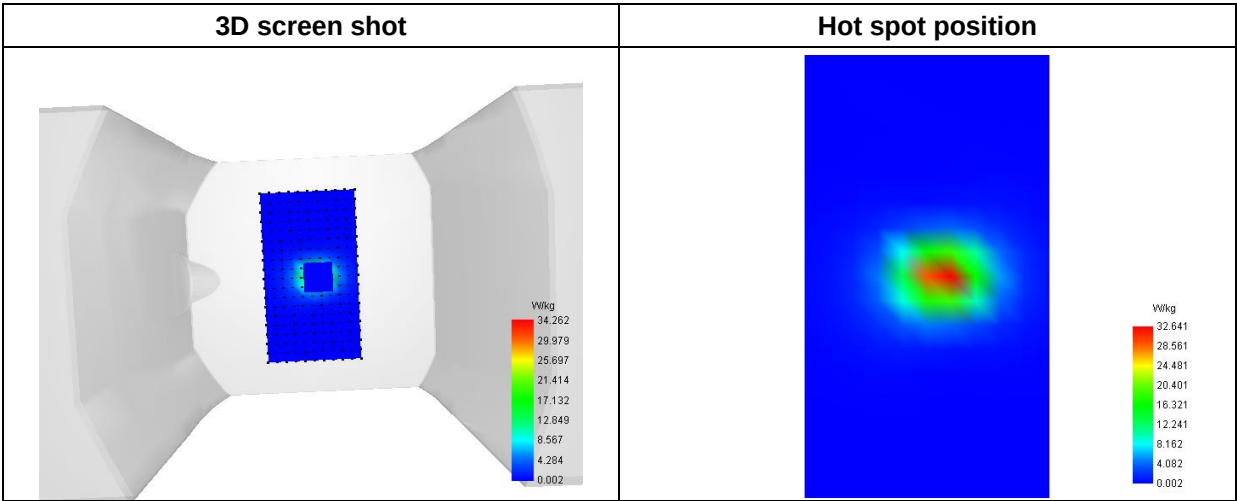
|                |           |
|----------------|-----------|
| SAR 10g (W/Kg) | 5.385932  |
| SAR 1g (W/Kg)  | 18.087402 |

E. Z Axis Scan

|            |        |        |        |        |        |        |        |        |        |
|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Z (mm)     | 0.00   | 2.00   | 4.00   | 6.00   | 8.00   | 10.00  | 12.00  | 14.00  | 16.00  |
| SAR (W/Kg) | 59.320 | 34.261 | 18.434 | 9.2545 | 4.4822 | 2.1439 | 1.0586 | 0.5728 | 0.3524 |
|            | 3      | 7      | 7      |        |        |        |        |        |        |



F. 3D Image



Annex B. Plots of SAR Measurement

MEASUREMENT 1

Type: Phone measurement (Complete)  
Date of measurement: 2023-09-08  
Measurement duration: 11 minutes 48 seconds

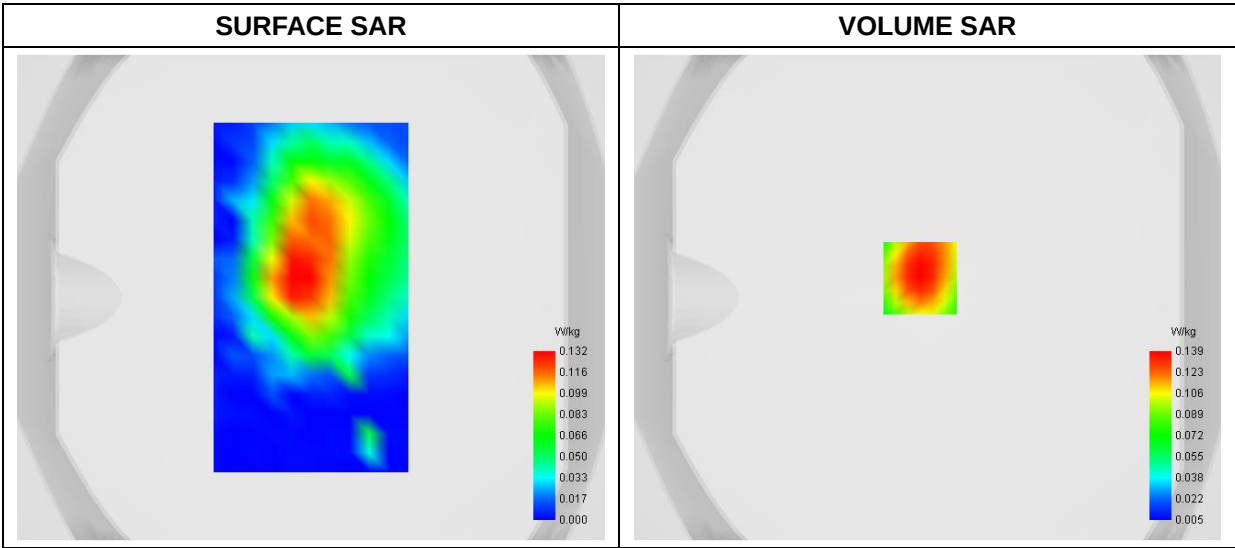
A. Experimental conditions

|                 |                          |
|-----------------|--------------------------|
| Area Scan       | dx=8mm dy=8mm            |
| Zoom Scan       | dx=5mm dy=5mm dz=4mm     |
| Phantom         | Flat Plane               |
| Device Position | Back                     |
| Band            | GSM850                   |
| Channels        | High                     |
| Signal          | TDMA (Crest factor: 8.0) |

B. SAR Measurement Results

|                                   |            |
|-----------------------------------|------------|
| Frequency (MHz)                   | 848.800000 |
| Relative Permittivity (real part) | 41.342458  |
| Conductivity (S/m)                | 0.920631   |
| Power Variation (%)               | 0.492670   |
| Ambient Temperature               | 22.2       |
| Liquid Temperature                | 22.2       |

C. SAR Surface and Volume

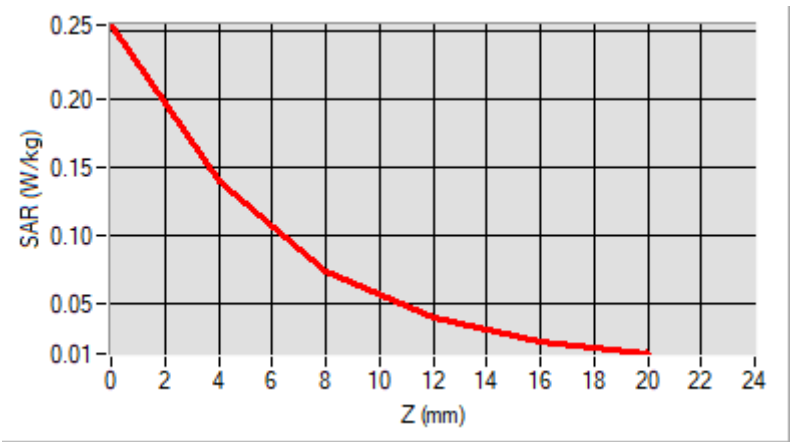


Maximum location: X=-3.00, Y=8.00  
D. SAR 1g & 10g

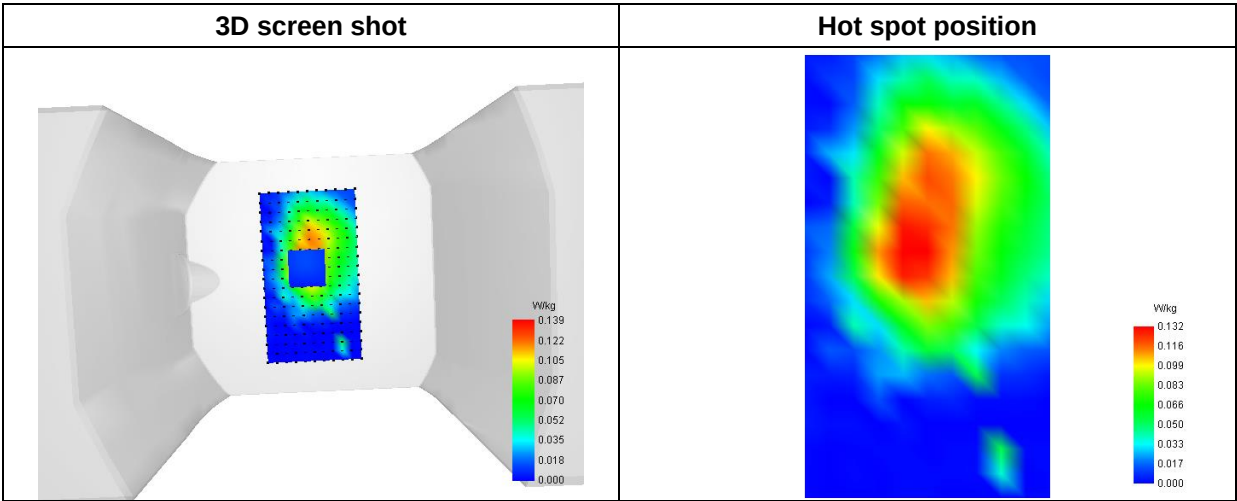
|                |          |
|----------------|----------|
| SAR 10g (W/Kg) | 0.070366 |
| SAR 1g (W/Kg)  | 0.144957 |

E. Z Axis Scan

|            |        |        |        |        |        |
|------------|--------|--------|--------|--------|--------|
| Z (mm)     | 0.00   | 4.00   | 8.00   | 12.00  | 16.00  |
| SAR (W/Kg) | 0.2548 | 0.1393 | 0.0734 | 0.0392 | 0.0225 |



F. 3D Image



MEASUREMENT 2

Type: Phone measurement (Complete)  
Date of measurement: 2023-09-08  
Measurement duration: 11 minutes 48 seconds

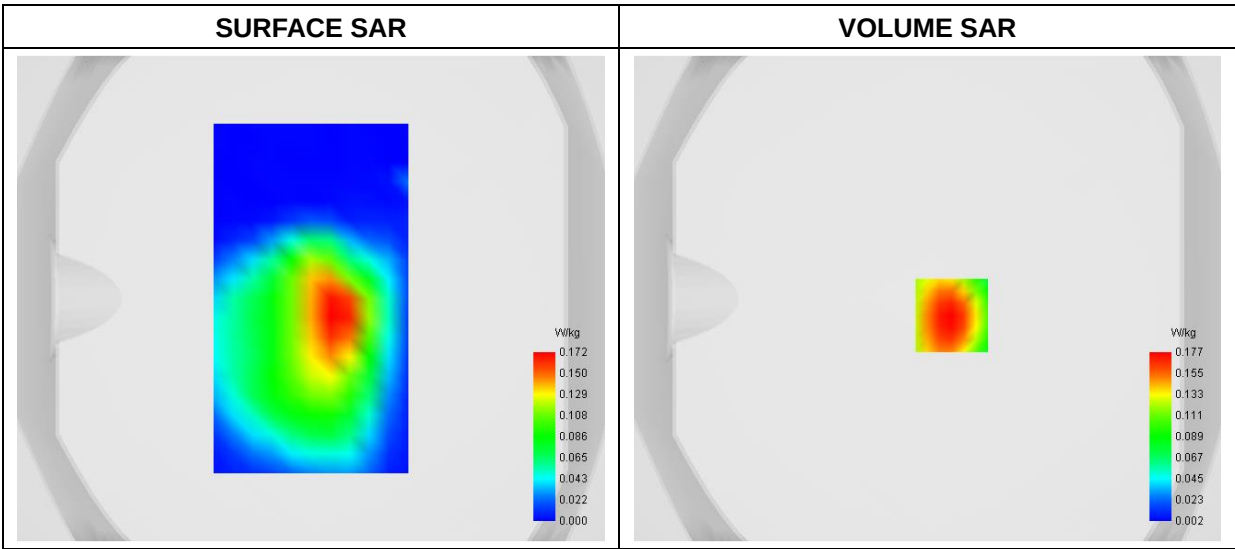
A. Experimental conditions

|                 |                      |
|-----------------|----------------------|
| Area Scan       | dx=8mm dy=8mm        |
| Zoom Scan       | dx=5mm dy=5mm dz=4mm |
| Phantom         | Flat Plane           |
| Device Position | Back                 |
| Band            | GPRS850_3TX          |
| Channels        | Low                  |
| Signal          | Duty Cycle: 1:2.66   |

B. SAR Measurement Results

|                                   |            |
|-----------------------------------|------------|
| Frequency (MHz)                   | 824.200000 |
| Relative Permittivity (real part) | 41.341248  |
| Conductivity (S/m)                | 0.924419   |
| Power Variation (%)               | 0.267735   |
| Ambient Temperature               | 22.2       |
| Liquid Temperature                | 22.2       |

C. SAR Surface and Volume



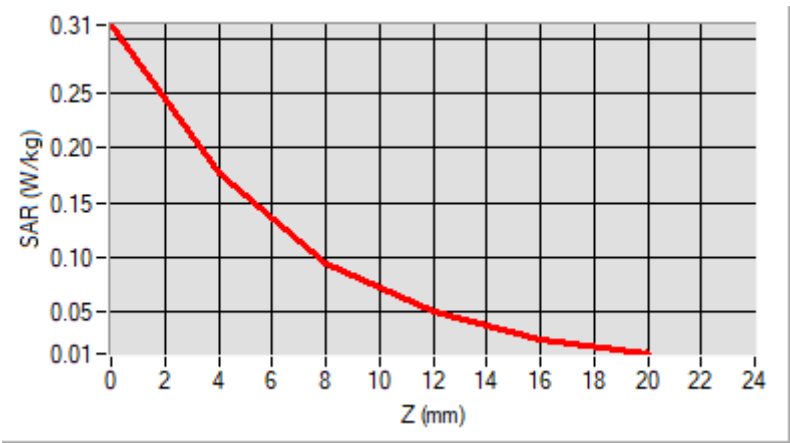
Maximum location: X=10.00, Y=-7.00

D. SAR 1g & 10g

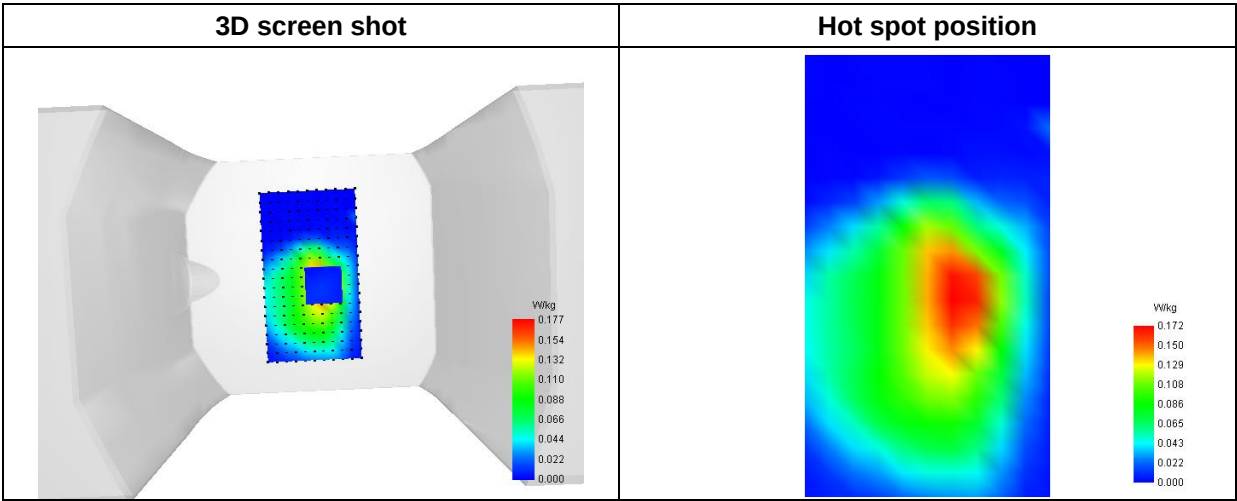
|                |          |
|----------------|----------|
| SAR 10g (W/Kg) | 0.085666 |
| SAR 1g (W/Kg)  | 0.165067 |

E. Z Axis Scan

|            |        |        |        |        |        |
|------------|--------|--------|--------|--------|--------|
| Z (mm)     | 0.00   | 4.00   | 8.00   | 12.00  | 16.00  |
| SAR (W/Kg) | 0.3130 | 0.1765 | 0.0949 | 0.0495 | 0.0255 |



F. 3D Image



MEASUREMENT 3

Type: Phone measurement (Complete)  
Date of measurement: 2023-09-08  
Measurement duration: 11 minutes 48 seconds

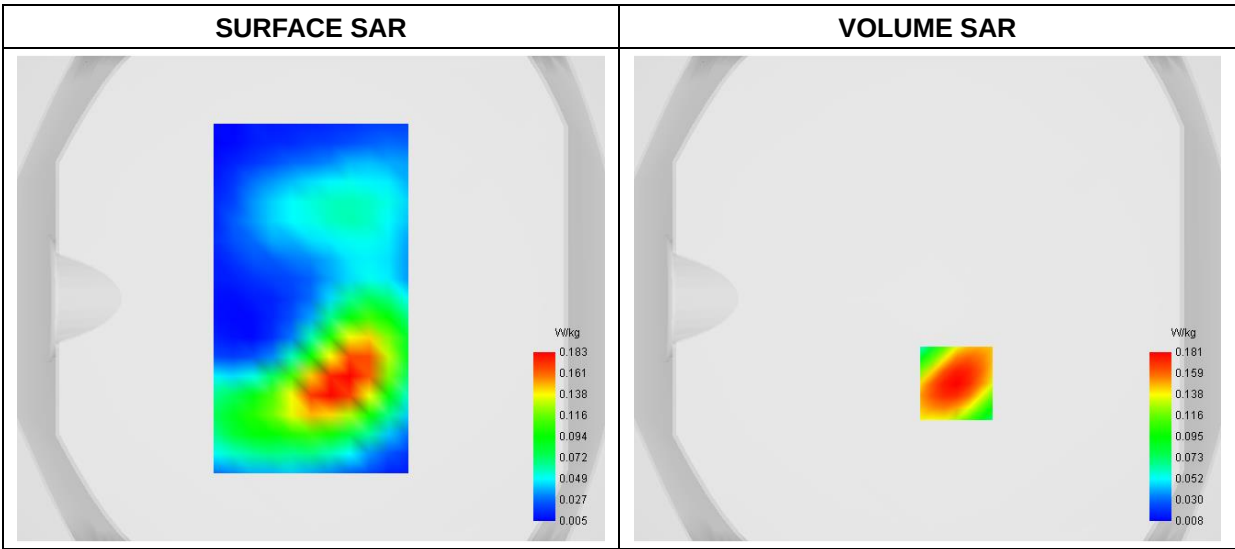
A. Experimental conditions

|                 |                          |
|-----------------|--------------------------|
| Area Scan       | dx=8mm dy=8mm            |
| Zoom Scan       | dx=5mm dy=5mm dz=4mm     |
| Phantom         | Flat Plane               |
| Device Position | Back                     |
| Band            | GSM1900                  |
| Channels        | High                     |
| Signal          | TDMA (Crest factor: 8.0) |

B. SAR Measurement Results

|                                   |            |
|-----------------------------------|------------|
| Frequency (MHz)                   | 824.200000 |
| Relative Permittivity (real part) | 41.341245  |
| Conductivity (S/m)                | 0.921245   |
| Power Variation (%)               | 1.453600   |
| Ambient Temperature               | 22.2       |
| Liquid Temperature                | 22.2       |

C. SAR Surface and Volume



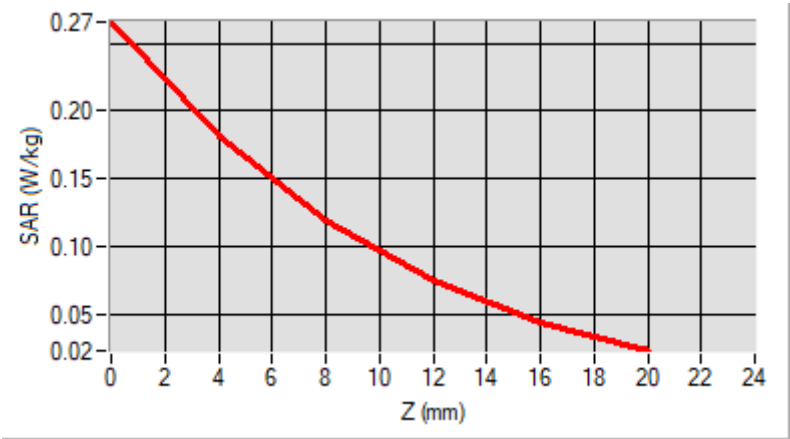
Maximum location: X=12.00, Y=-35.00

D. SAR 1g & 10g

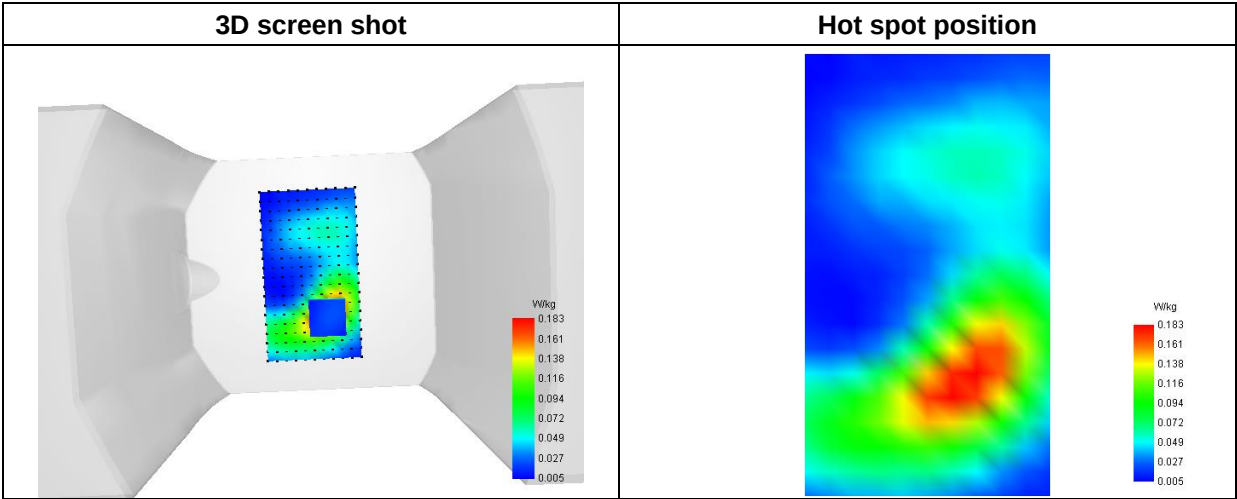
|                |          |
|----------------|----------|
| SAR 10g (W/Kg) | 0.094532 |
| SAR 1g (W/Kg)  | 0.168350 |

E. Z Axis Scan

|            |        |        |        |        |        |
|------------|--------|--------|--------|--------|--------|
| Z (mm)     | 0.00   | 4.00   | 8.00   | 12.00  | 16.00  |
| SAR (W/Kg) | 0.2658 | 0.1806 | 0.1186 | 0.0746 | 0.0442 |



F. 3D Image





MEASUREMENT 4

Type: Phone measurement (Complete)  
Date of measurement: 2023-09-09  
Measurement duration: 11 minutes 48 seconds

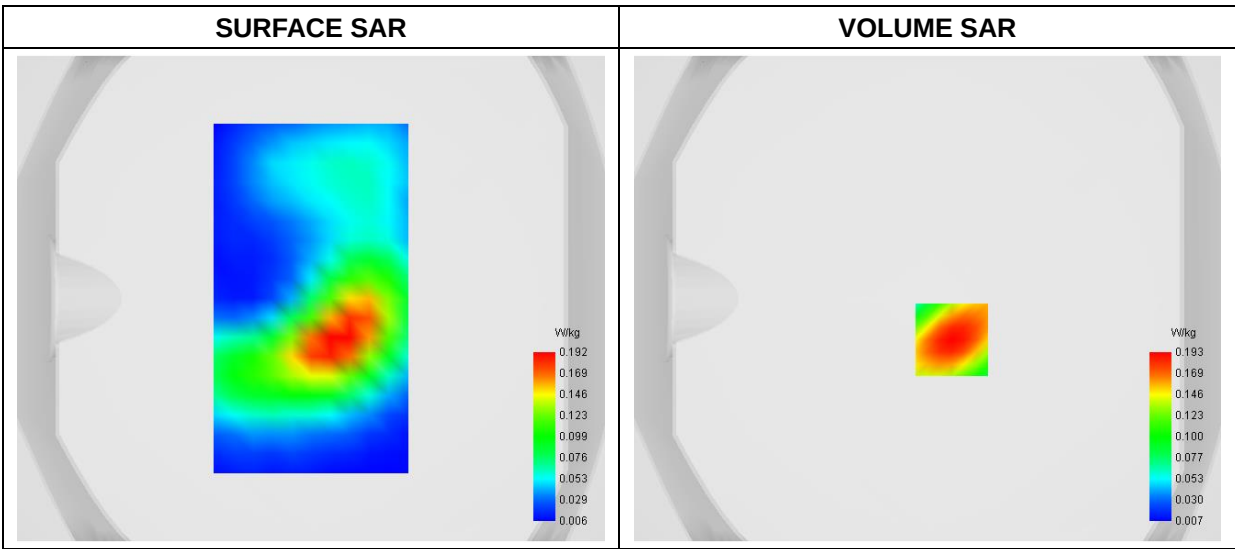
A. Experimental conditions

|                 |                      |
|-----------------|----------------------|
| Area Scan       | dx=8mm dy=8mm        |
| Zoom Scan       | dx=5mm dy=5mm dz=4mm |
| Phantom         | Flat Plane           |
| Device Position | Back                 |
| Band            | GPRS1900_4TX         |
| Channels        | Low                  |
| Signal          | Duty Cycle: 1:2      |

B. SAR Measurement Results

|                                   |             |
|-----------------------------------|-------------|
| Frequency (MHz)                   | 1850.200000 |
| Relative Permittivity (real part) | 41.114124   |
| Conductivity (S/m)                | 1.383692    |
| Power Variation (%)               | -0.155700   |
| Ambient Temperature               | 22.4        |
| Liquid Temperature                | 22.4        |

C. SAR Surface and Volume



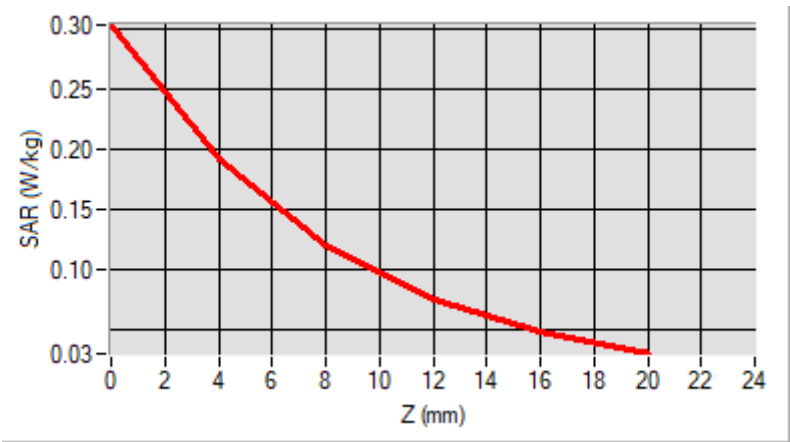
Maximum location: X=10.00, Y=-17.00

D. SAR 1g & 10g

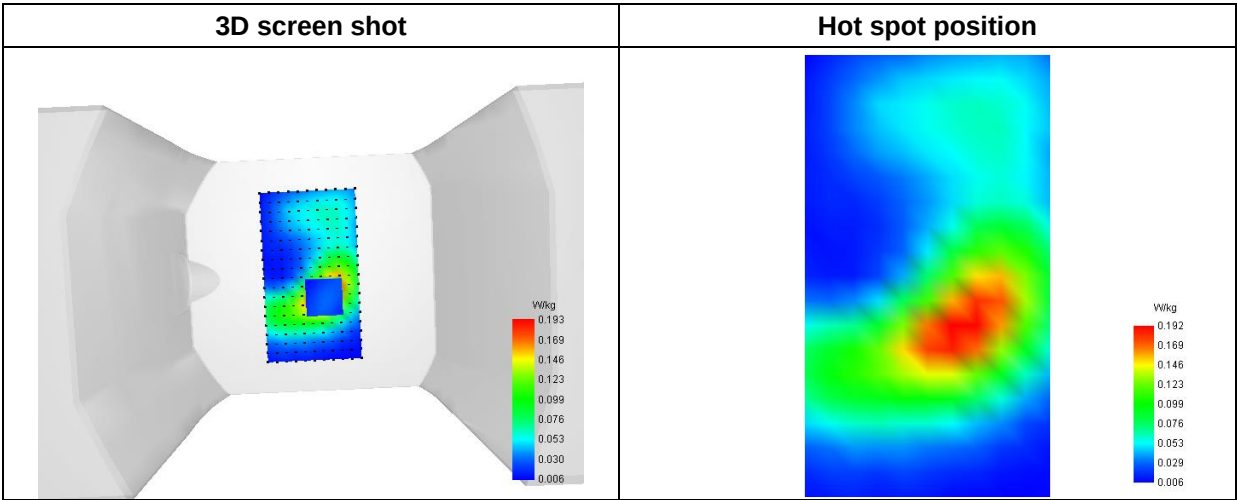
|                |          |
|----------------|----------|
| SAR 10g (W/Kg) | 0.101807 |
| SAR 1g (W/Kg)  | 0.180568 |

E. Z Axis Scan

|            |        |        |        |        |        |
|------------|--------|--------|--------|--------|--------|
| Z (mm)     | 0.00   | 4.00   | 8.00   | 12.00  | 16.00  |
| SAR (W/Kg) | 0.3041 | 0.1927 | 0.1201 | 0.0751 | 0.0479 |



F. 3D Image



MEASUREMENT 5

Type: Phone measurement (Complete)  
Date of measurement: 2023-09-09  
Measurement duration: 12 minutes 3 seconds

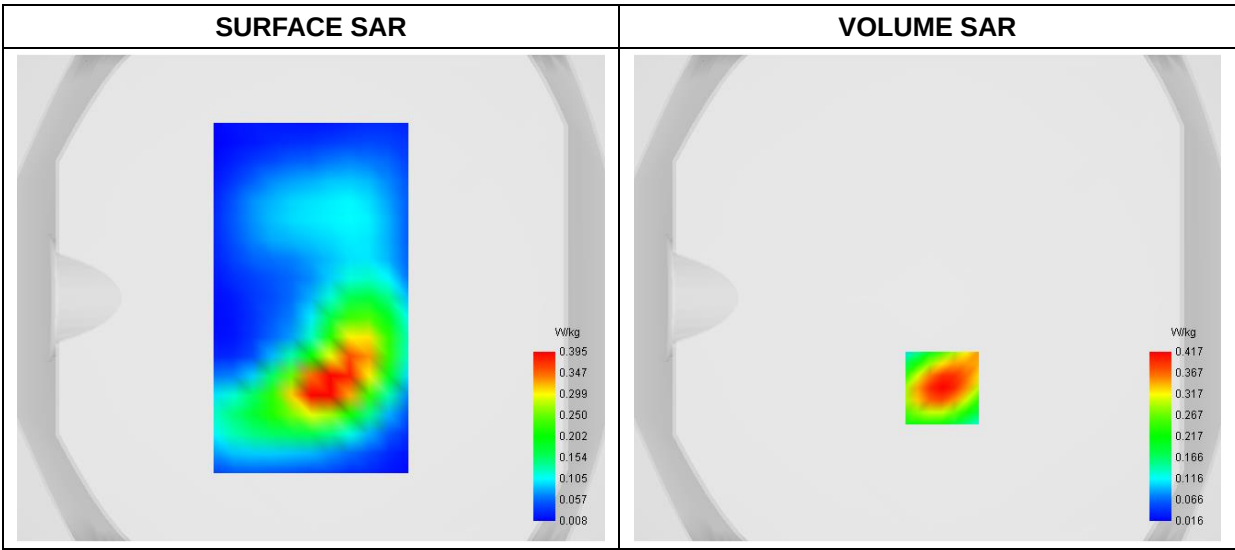
A. Experimental conditions

|                 |                      |
|-----------------|----------------------|
| Area Scan       | dx=8mm dy=8mm        |
| Zoom Scan       | dx=5mm dy=5mm dz=4mm |
| Phantom         | Flat Plane           |
| Device Position | Back                 |
| Band            | WCDMA1900_RMC        |
| Channels        | High                 |
| Signal          | Duty Cycle 1:1       |

B. SAR Measurement Results

|                                   |             |
|-----------------------------------|-------------|
| Frequency (MHz)                   | 1907.600000 |
| Relative Permittivity (real part) | 40.421246   |
| Conductivity (S/m)                | 1.633607    |
| Power Variation (%)               | 0.825900    |
| Ambient Temperature               | 22.4        |
| Liquid Temperature                | 22.4        |

C. SAR Surface and Volume



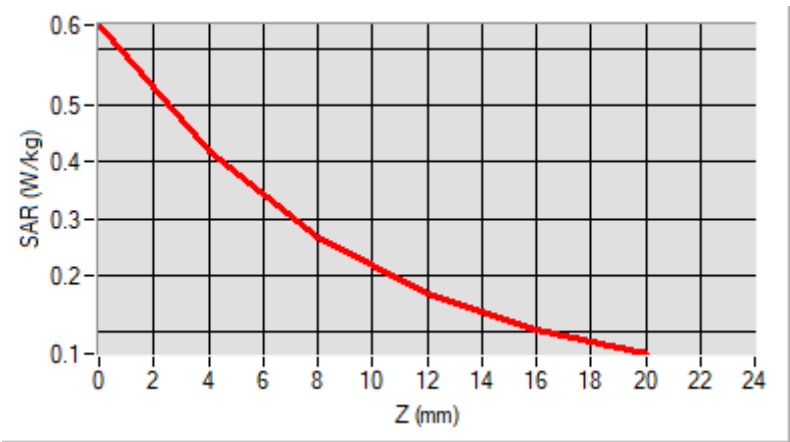
Maximum location: X=6.00, Y=-37.00

D. SAR 1g & 10g

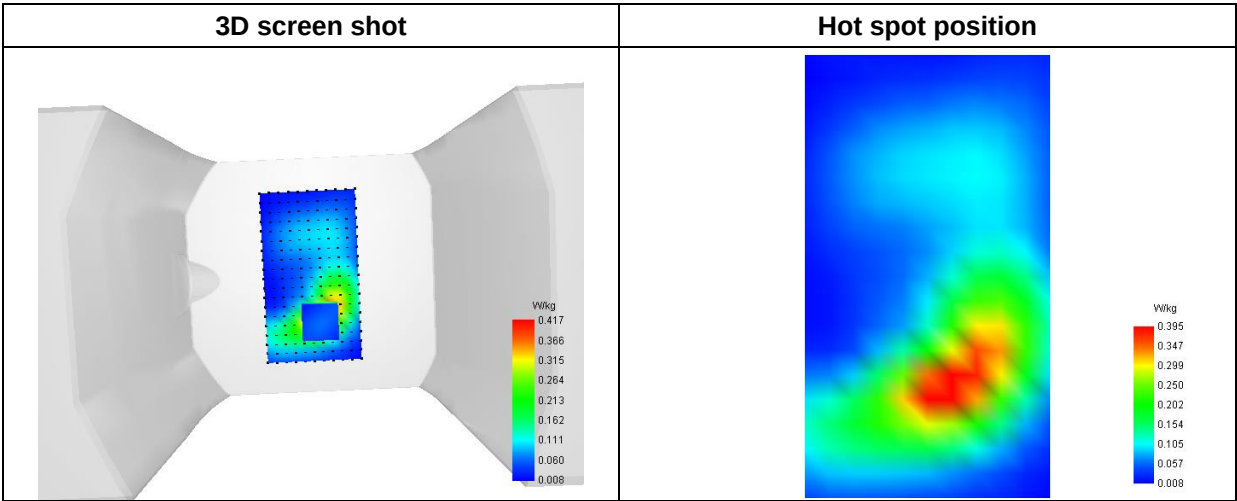
|                |          |
|----------------|----------|
| SAR 10g (W/Kg) | 0.210427 |
| SAR 1g (W/Kg)  | 0.385161 |

E. Z Axis Scan

|            |        |        |        |        |        |
|------------|--------|--------|--------|--------|--------|
| Z (mm)     | 0.00   | 4.00   | 8.00   | 12.00  | 16.00  |
| SAR (W/Kg) | 0.6413 | 0.4173 | 0.2659 | 0.1677 | 0.1051 |



F. 3D Image



MEASUREMENT 6

Type: Phone measurement (Complete)  
Date of measurement: 2023-09-08  
Measurement duration: 12 minutes 3 seconds

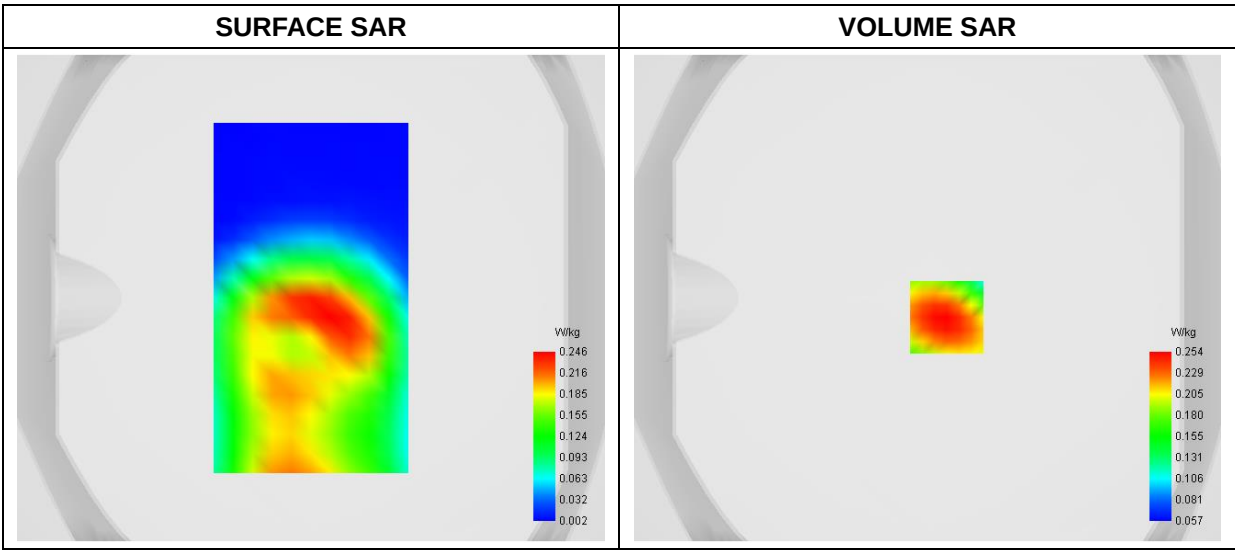
A. Experimental conditions

|                 |                      |
|-----------------|----------------------|
| Area Scan       | dx=8mm dy=8mm        |
| Zoom Scan       | dx=5mm dy=5mm dz=4mm |
| Phantom         | Flat Plane           |
| Device Position | Back                 |
| Band            | WCDMA850_RMC         |
| Channels        | Low                  |
| Signal          | Duty Cycle 1:1       |

B. SAR Measurement Results

|                                   |            |
|-----------------------------------|------------|
| Frequency (MHz)                   | 826.400000 |
| Relative Permittivity (real part) | 41.342275  |
| Conductivity (S/m)                | 0.924787   |
| Power Variation (%)               | 1.247100   |
| Ambient Temperature               | 22.2       |
| Liquid Temperature                | 22.2       |

C. SAR Surface and Volume

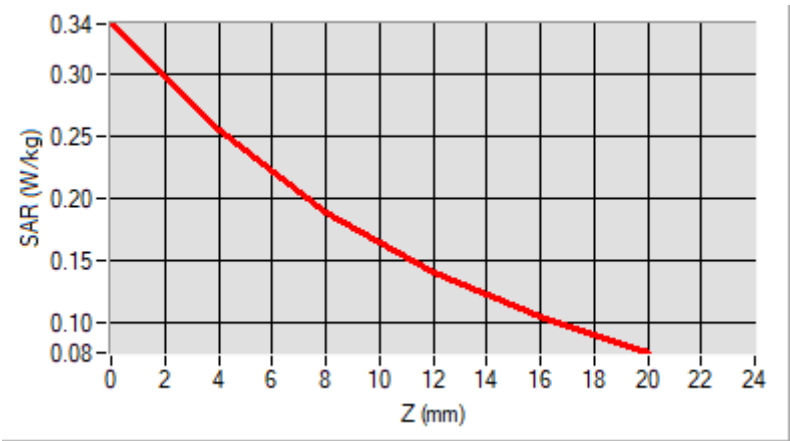


Maximum location: X=8.00, Y=-8.00  
D. SAR 1g & 10g

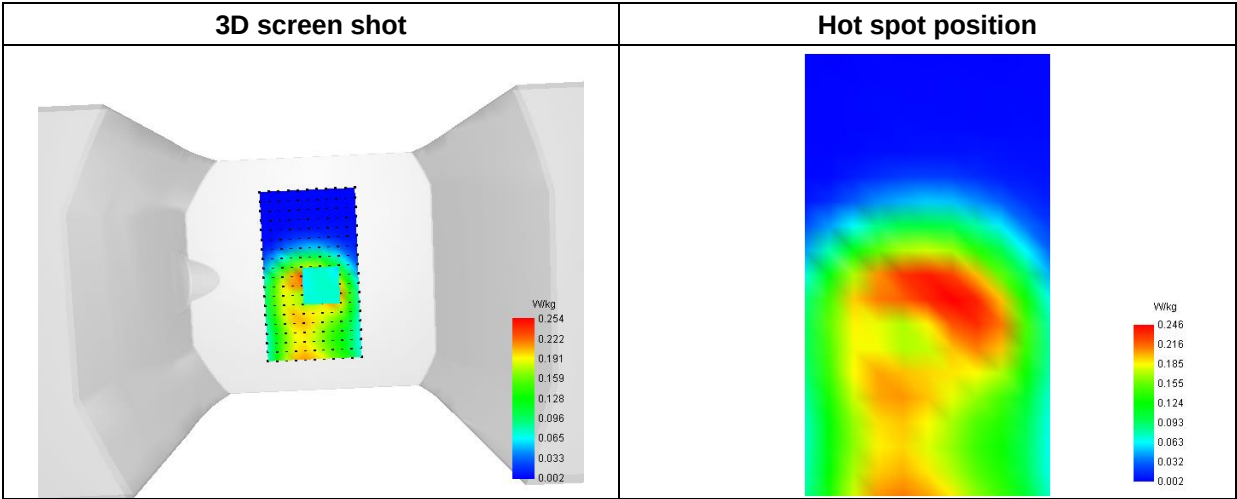
|                |          |
|----------------|----------|
| SAR 10g (W/Kg) | 0.160246 |
| SAR 1g (W/Kg)  | 0.240723 |

E. Z Axis Scan

|            |        |        |        |        |        |
|------------|--------|--------|--------|--------|--------|
| Z (mm)     | 0.00   | 4.00   | 8.00   | 12.00  | 16.00  |
| SAR (W/Kg) | 0.3400 | 0.2539 | 0.1885 | 0.1400 | 0.1039 |



F. 3D Image



MEASUREMENT 7

Type: Phone measurement (Complete)  
Date of measurement: 2023-09-08  
Measurement duration: 12 minutes 3 seconds

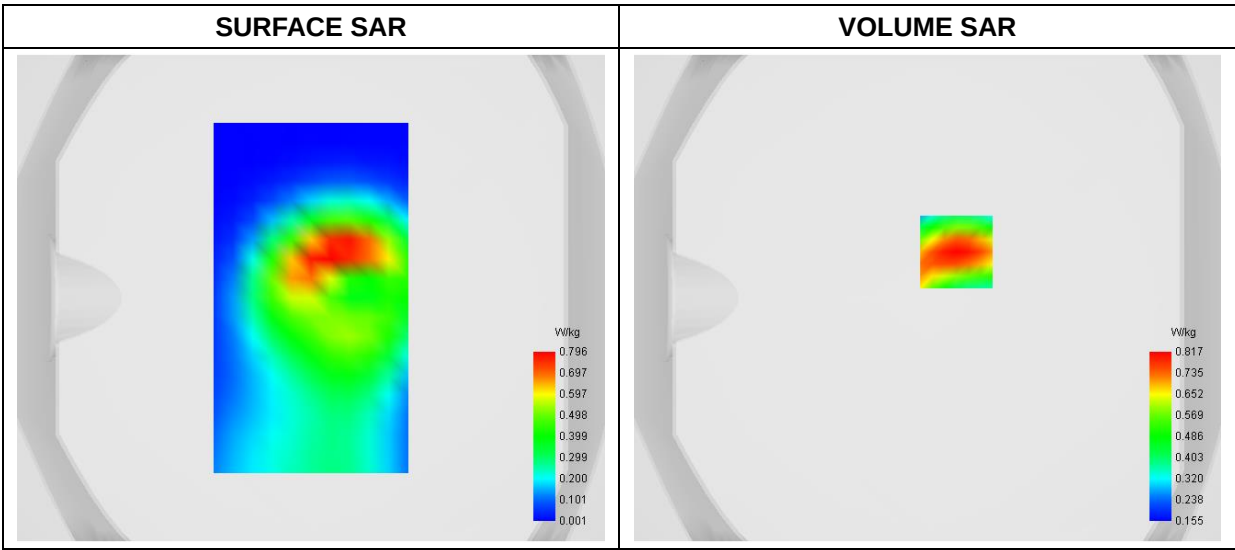
A. Experimental conditions

|                 |                       |
|-----------------|-----------------------|
| Area Scan       | dx=8mm dy=8mm         |
| Zoom Scan       | dx=5mm dy=5mm dz=4mm  |
| Phantom         | Flat Plane            |
| Device Position | Back                  |
| Band            | LTE Band 5            |
| Channels        | QPSK, 10MHz, 1RB, Low |
| Signal          | Duty Cycle 1:1        |

B. SAR Measurement Results

|                                   |            |
|-----------------------------------|------------|
| Frequency (MHz)                   | 829.000000 |
| Relative Permittivity (real part) | 41.343245  |
| Conductivity (S/m)                | 0.921245   |
| Power Variation (%)               | -0.876800  |
| Ambient Temperature               | 22.2       |
| Liquid Temperature                | 22.2       |

C. SAR Surface and Volume

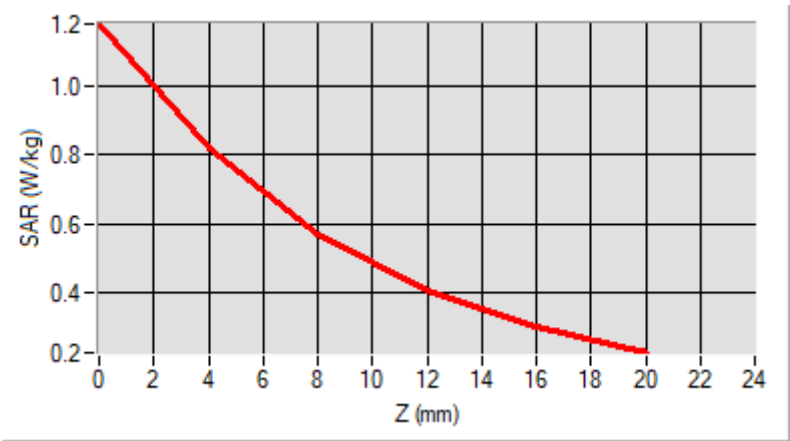


Maximum location: X=12.00, Y=19.00  
D. SAR 1g & 10g

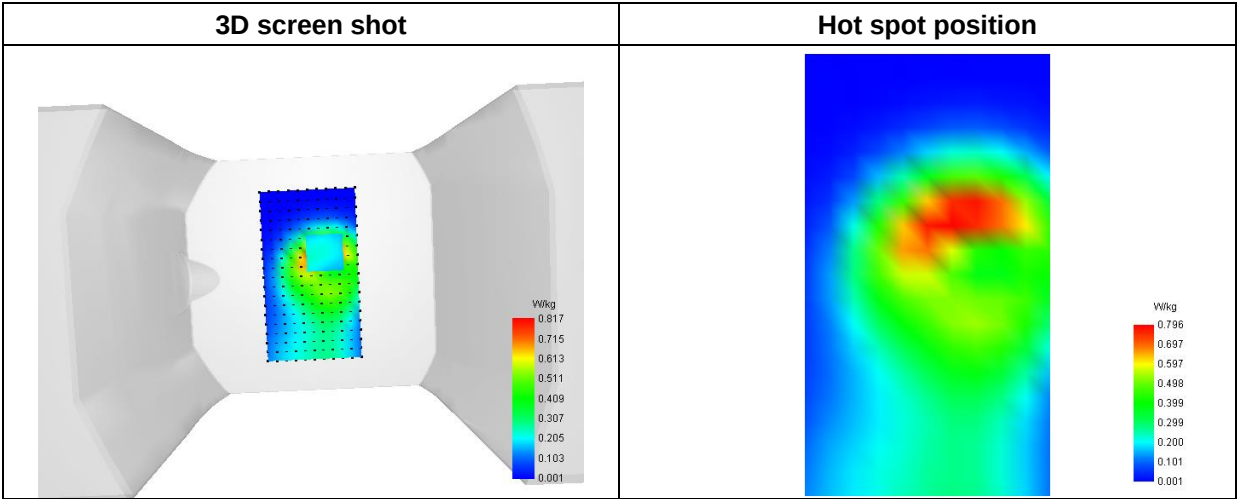
|                |          |
|----------------|----------|
| SAR 10g (W/Kg) | 0.474563 |
| SAR 1g (W/Kg)  | 0.761701 |

E. Z Axis Scan

|            |        |        |        |        |        |
|------------|--------|--------|--------|--------|--------|
| Z (mm)     | 0.00   | 4.00   | 8.00   | 12.00  | 16.00  |
| SAR (W/Kg) | 1.1795 | 0.8173 | 0.5690 | 0.4065 | 0.3016 |



F. 3D Image





MEASUREMENT 8

Type: Phone measurement (Complete)  
Date of measurement: 2023-09-11  
Measurement duration: 12 minutes 3 seconds

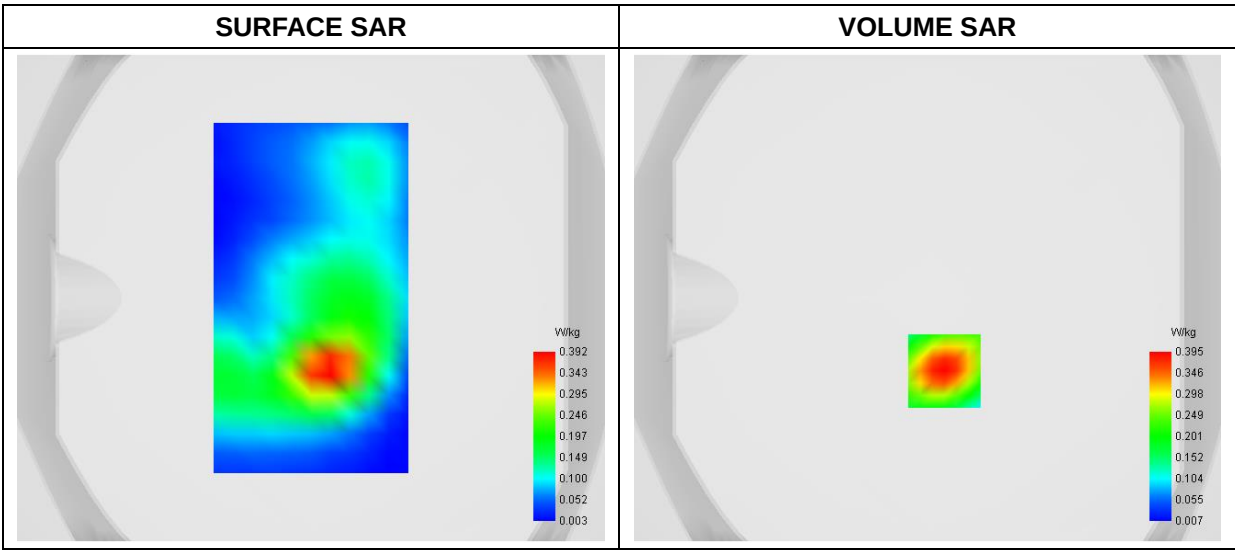
A. Experimental conditions

|                 |                       |
|-----------------|-----------------------|
| Area Scan       | dx=8mm dy=8mm         |
| Zoom Scan       | dx=5mm dy=5mm dz=4mm  |
| Phantom         | Flat Plane            |
| Device Position | Back                  |
| Band            | LTE Band 7            |
| Channels        | QPSK, 20MHz, 1RB, Low |
| Signal          | Duty Cycle 1:1        |

B. SAR Measurement Results

|                                   |             |
|-----------------------------------|-------------|
| Frequency (MHz)                   | 2510.000000 |
| Relative Permittivity (real part) | 38.682667   |
| Conductivity (S/m)                | 1.932182    |
| Power Variation (%)               | -0.714700   |
| Ambient Temperature               | 22.1        |
| Liquid Temperature                | 22.1        |

C. SAR Surface and Volume

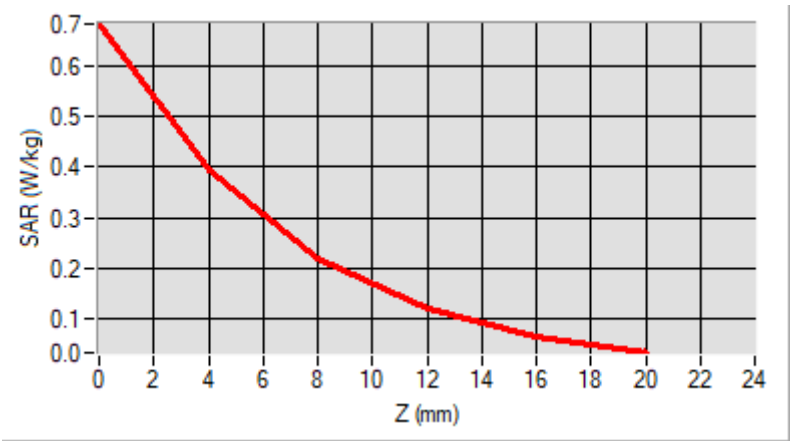


Maximum location: X=7.00, Y=-30.00  
D. SAR 1g & 10g

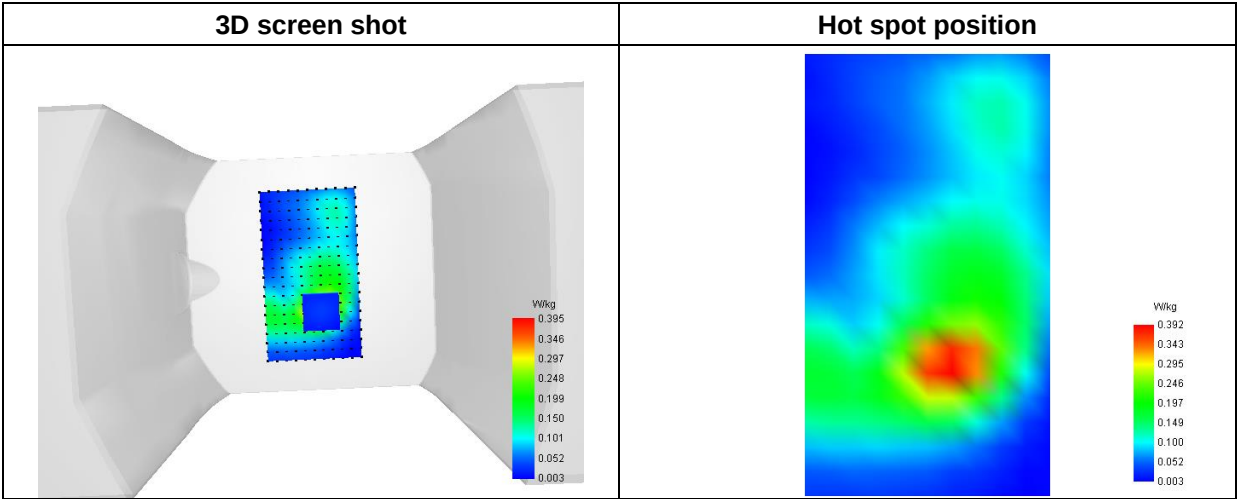
|                |          |
|----------------|----------|
| SAR 10g (W/Kg) | 0.180685 |
| SAR 1g (W/Kg)  | 0.364772 |

E. Z Axis Scan

|            |        |        |        |        |        |
|------------|--------|--------|--------|--------|--------|
| Z (mm)     | 0.00   | 4.00   | 8.00   | 12.00  | 16.00  |
| SAR (W/Kg) | 0.6829 | 0.3946 | 0.2194 | 0.1200 | 0.0660 |



F. 3D Image



MEASUREMENT 9

Type: Phone measurement (Complete)  
Date of measurement: 2023-09-09  
Measurement duration: 12 minutes 3 seconds

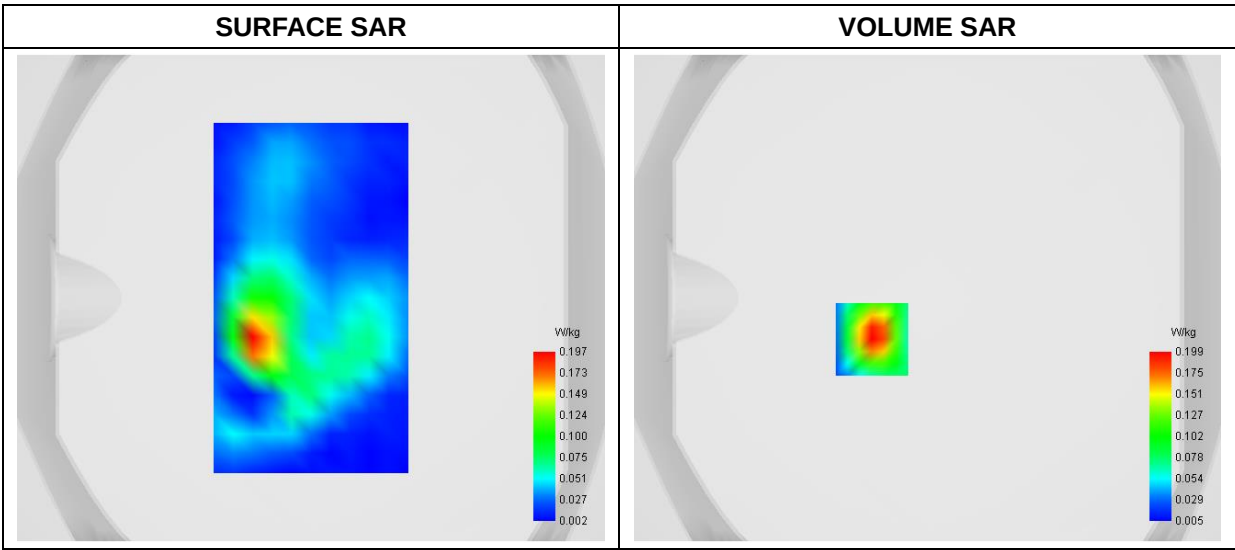
A. Experimental conditions

|                 |                           |
|-----------------|---------------------------|
| Area Scan       | dx=8mm dy=8mm             |
| Zoom Scan       | dx=5mm dy=5mm dz=4mm      |
| Phantom         | Flat Plane                |
| Device Position | Back                      |
| Band            | LTE Band 40(2305-2315MHz) |
| Channels        | QPSK, 10MHz, 1RB, Middle  |
| Signal          | Duty Cycle 1:1            |

B. SAR Measurement Results

|                                   |             |
|-----------------------------------|-------------|
| Frequency (MHz)                   | 2310.000000 |
| Relative Permittivity (real part) | 40.421486   |
| Conductivity (S/m)                | 1.633696    |
| Power Variation (%)               | -1.055700   |
| Ambient Temperature               | 22.4        |
| Liquid Temperature                | 22.4        |

C. SAR Surface and Volume

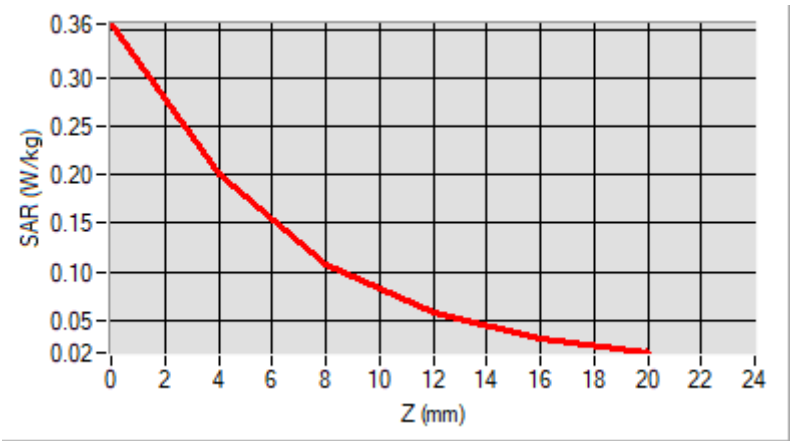


Maximum location: X=-23.00, Y=-17.00  
D. SAR 1g & 10g

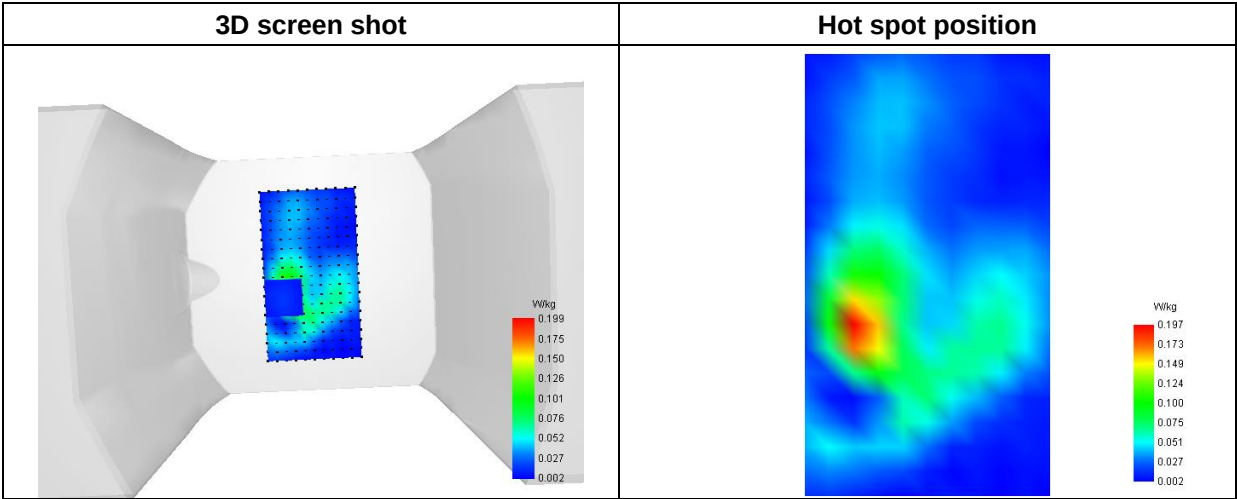
|                |          |
|----------------|----------|
| SAR 10g (W/Kg) | 0.080427 |
| SAR 1g (W/Kg)  | 0.180589 |

E. Z Axis Scan

|            |        |        |        |        |        |
|------------|--------|--------|--------|--------|--------|
| Z (mm)     | 0.00   | 4.00   | 8.00   | 12.00  | 16.00  |
| SAR (W/Kg) | 0.3558 | 0.1995 | 0.1073 | 0.0571 | 0.0311 |



F. 3D Image



MEASUREMENT 10

Type: Phone measurement (Complete)  
Date of measurement: 2023-09-09  
Measurement duration: 12 minutes 3 seconds

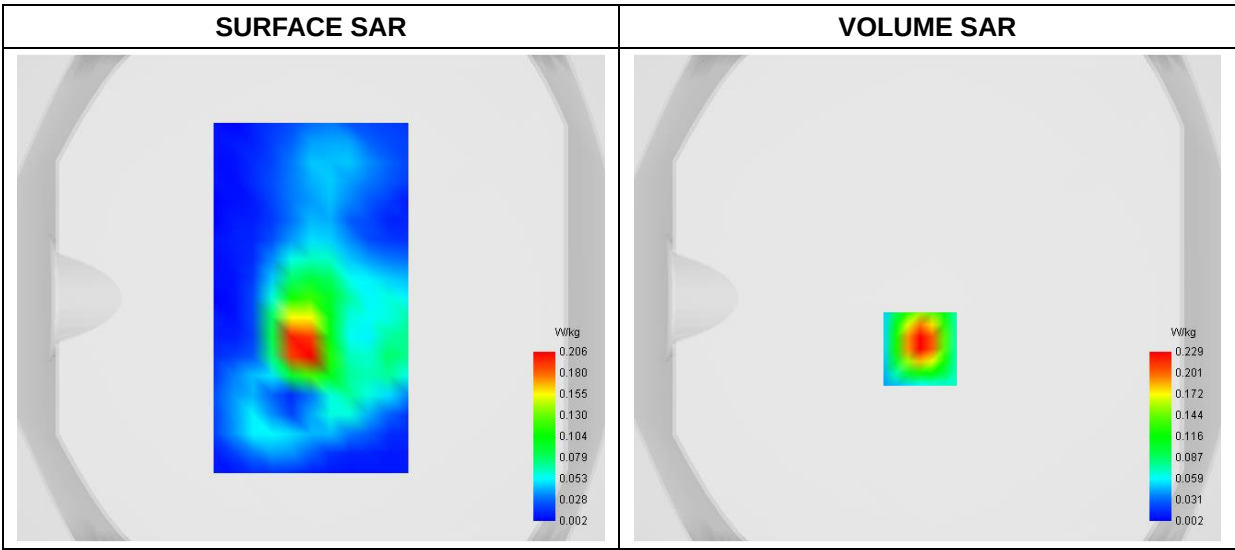
A. Experimental conditions

|                 |                           |
|-----------------|---------------------------|
| Area Scan       | dx=8mm dy=8mm             |
| Zoom Scan       | dx=5mm dy=5mm dz=4mm      |
| Phantom         | Flat Plane                |
| Device Position | Back                      |
| Band            | LTE Band 40(2350-2360MHz) |
| Channels        | QPSK, 10MHz, 1RB, ,Middle |
| Signal          | Duty Cycle 1:1            |

B. SAR Measurement Results

|                                   |             |
|-----------------------------------|-------------|
| Frequency (MHz)                   | 2355.000000 |
| Relative Permittivity (real part) | 40.422775   |
| Conductivity (S/m)                | 1.630426    |
| Power Variation (%)               | -1.543700   |
| Ambient Temperature               | 22.4        |
| Liquid Temperature                | 22.4        |

C. SAR Surface and Volume

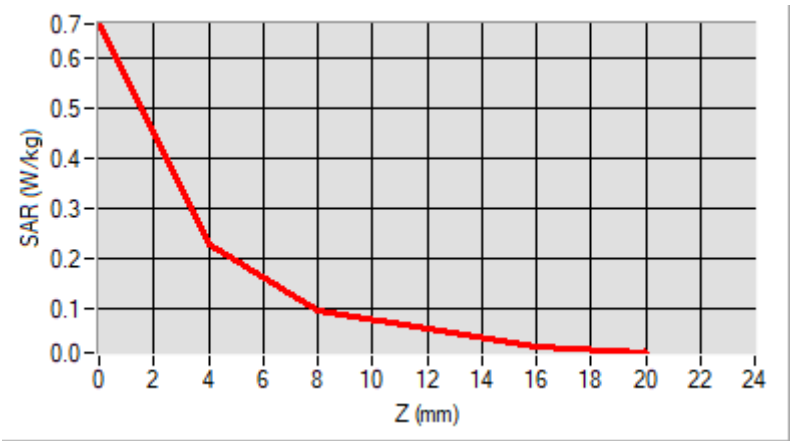


Maximum location: X=-3.00, Y=-21.00  
D. SAR 1g & 10g

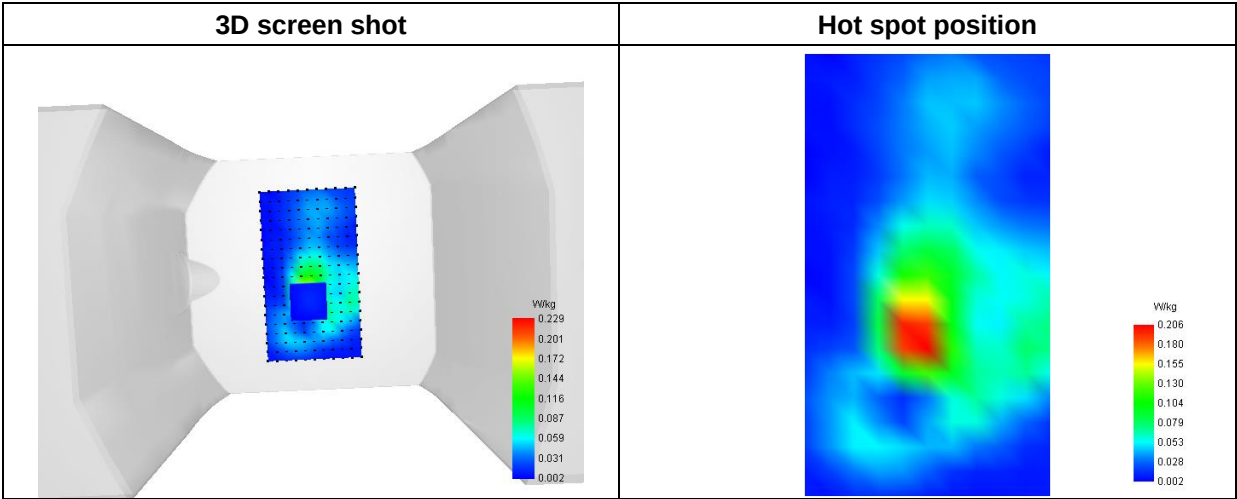
|                |          |
|----------------|----------|
| SAR 10g (W/Kg) | 0.091293 |
| SAR 1g (W/Kg)  | 0.210440 |

E. Z Axis Scan

|            |        |        |        |        |        |
|------------|--------|--------|--------|--------|--------|
| Z (mm)     | 0.00   | 4.00   | 8.00   | 12.00  | 16.00  |
| SAR (W/Kg) | 0.6675 | 0.2289 | 0.0968 | 0.0602 | 0.0251 |



F. 3D Image



MEASUREMENT 11

Type: Phone measurement (Complete)  
Date of measurement: 2023-09-11  
Measurement duration: 12 minutes 3 seconds

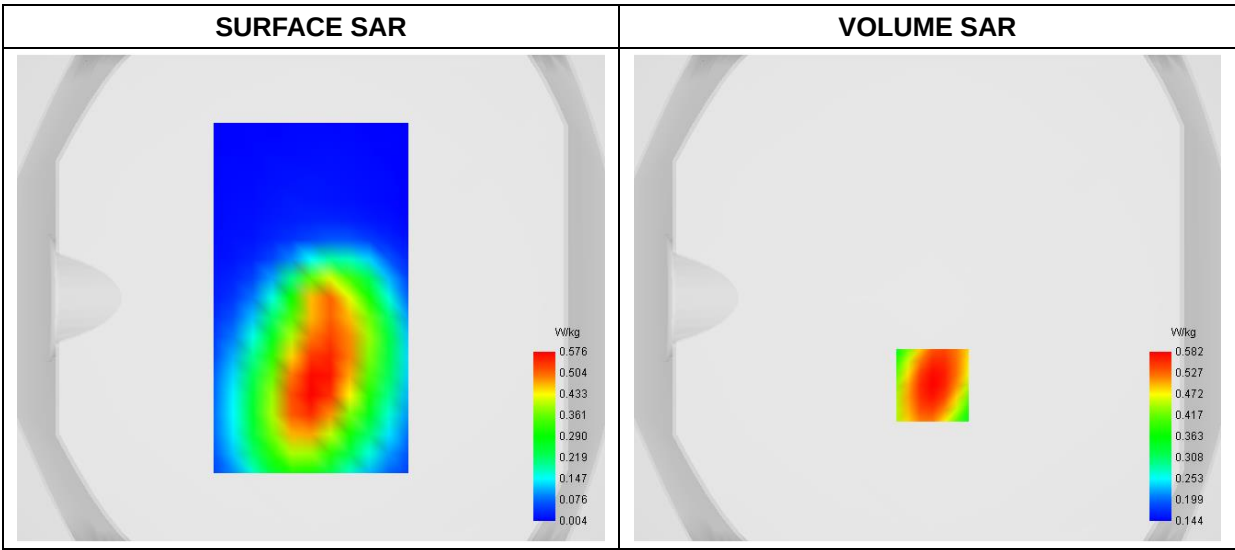
A. Experimental conditions

|                 |                           |
|-----------------|---------------------------|
| Area Scan       | dx=8mm dy=8mm             |
| Zoom Scan       | dx=5mm dy=5mm dz=4mm      |
| Phantom         | Flat Plane                |
| Device Position | Back                      |
| Band            | LTE Band 41(2555-2655MHz) |
| Channels        | QPSK, 20MHz, 1RB, Low     |
| Signal          | Duty Cycle 1:1            |

B. SAR Measurement Results

|                                   |             |
|-----------------------------------|-------------|
| Frequency (MHz)                   | 2565.000000 |
| Relative Permittivity (real part) | 38.682181   |
| Conductivity (S/m)                | 0.012775    |
| Power Variation (%)               | 1.932426    |
| Ambient Temperature               | 22.1        |
| Liquid Temperature                | 22.1        |

C. SAR Surface and Volume

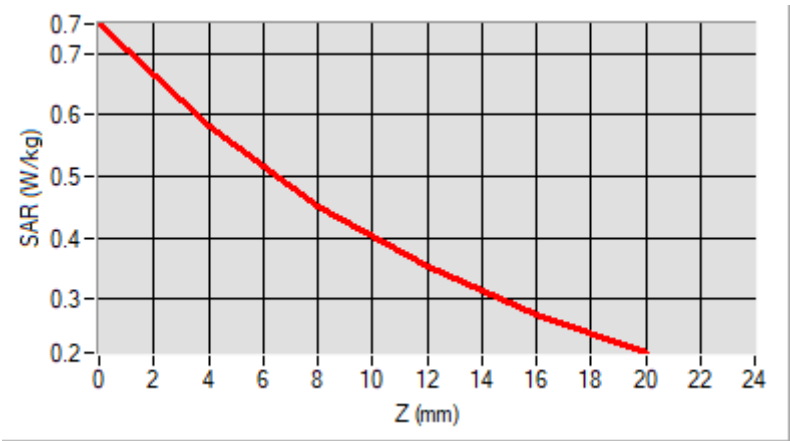


Maximum location: X=2.00, Y=-36.00  
D. SAR 1g & 10g

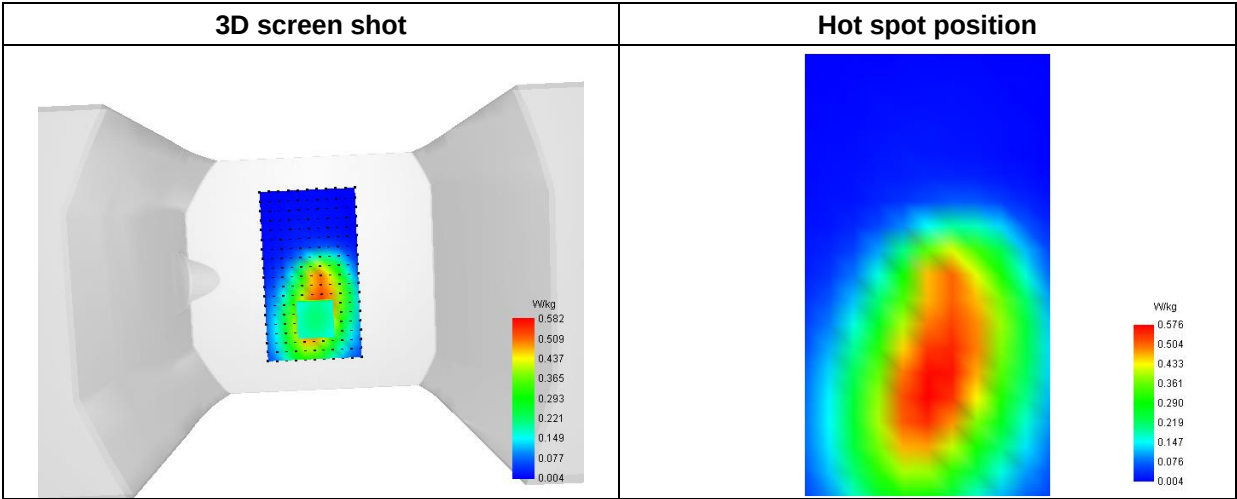
|                |          |
|----------------|----------|
| SAR 10g (W/Kg) | 0.385202 |
| SAR 1g (W/Kg)  | 0.553672 |

E. Z Axis Scan

|            |        |        |        |        |        |
|------------|--------|--------|--------|--------|--------|
| Z (mm)     | 0.00   | 4.00   | 8.00   | 12.00  | 16.00  |
| SAR (W/Kg) | 0.7478 | 0.5816 | 0.4518 | 0.3524 | 0.2760 |



F. 3D Image





MEASUREMENT 12

Type: Phone measurement (Complete)  
Date of measurement: 2023-09-11  
Measurement duration: 12 minutes 3 seconds

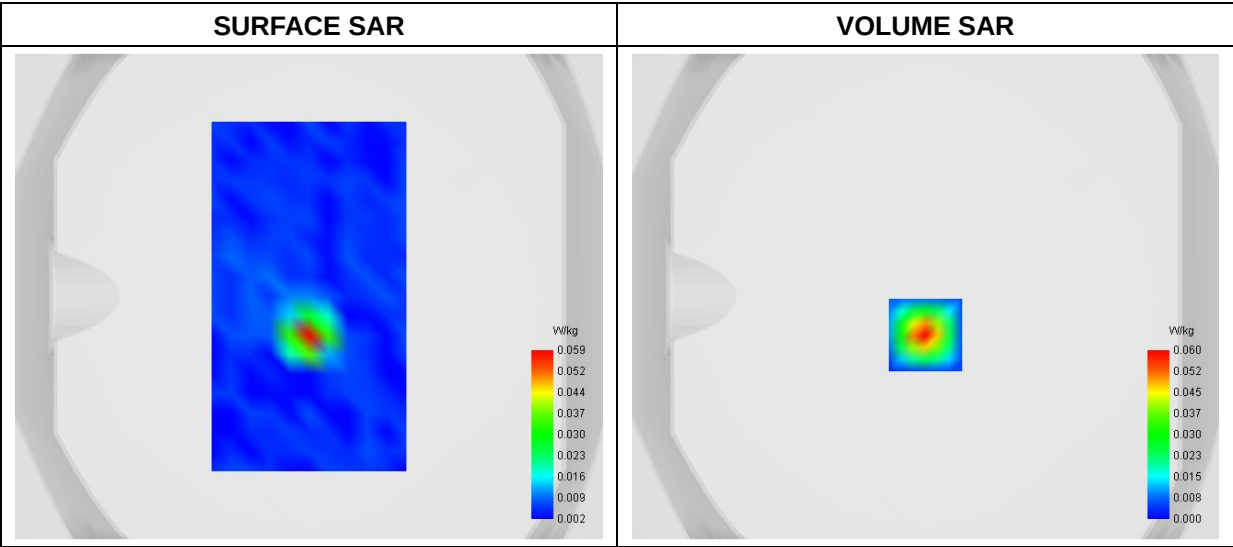
A. Experimental conditions

|                 |                      |
|-----------------|----------------------|
| Area Scan       | dx=8mm dy=8mm        |
| Zoom Scan       | dx=5mm dy=5mm dz=4mm |
| Phantom         | Flat Plane           |
| Device Position | Back                 |
| Band            | WiFi_802.11b         |
| Channels        | Middle               |
| Signal          | Duty Cycle 1:1       |

B. SAR Measurement Results

|                                   |             |
|-----------------------------------|-------------|
| Frequency (MHz)                   | 2437.000000 |
| Relative Permittivity (real part) | 40.262172   |
| Conductivity (S/m)                | 1.750255    |
| Power Variation (%)               | 2.437210    |
| Ambient Temperature               | 22.1        |
| Liquid Temperature                | 22.1        |

C. SAR Surface and Volume



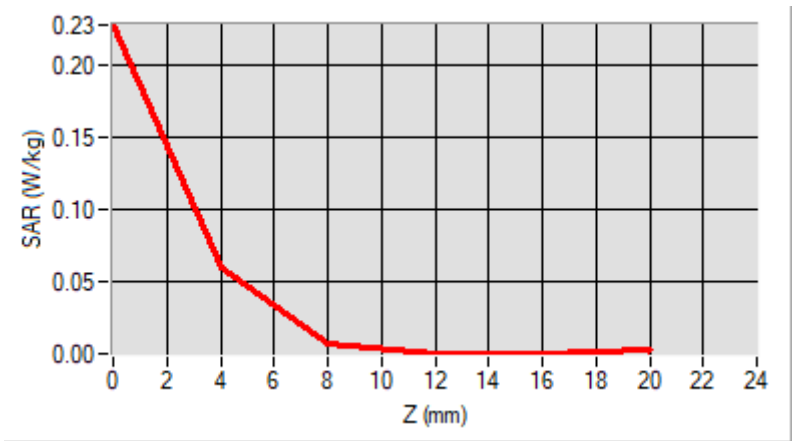
Maximum location: X=0.00, Y=-16.00

D. SAR 1g & 10g

|                |          |
|----------------|----------|
| SAR 10g (W/Kg) | 0.020144 |
| SAR 1g (W/Kg)  | 0.062841 |

E. Z Axis Scan

|            |        |        |        |        |        |
|------------|--------|--------|--------|--------|--------|
| Z (mm)     | 0.00   | 4.00   | 8.00   | 12.00  | 16.00  |
| SAR (W/Kg) | 0.2284 | 0.0598 | 0.0074 | 0.0002 | 0.0002 |



F. 3D Image

|                                                                                                                     |                                                                                                |
|---------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|
| 3D screen shot                                                                                                      | Hot spot position                                                                              |
| <p>A 3D model of a device with a color-coded SAR distribution. The color scale ranges from 0.000 to 0.060 W/kg.</p> | <p>A 2D heatmap of the hot spot position. The color scale ranges from 0.002 to 0.059 W/kg.</p> |

MEASUREMENT 13

Type: Phone measurement (Complete)  
Date of measurement: 2023-09-11  
Measurement duration: 12 minutes 3 seconds

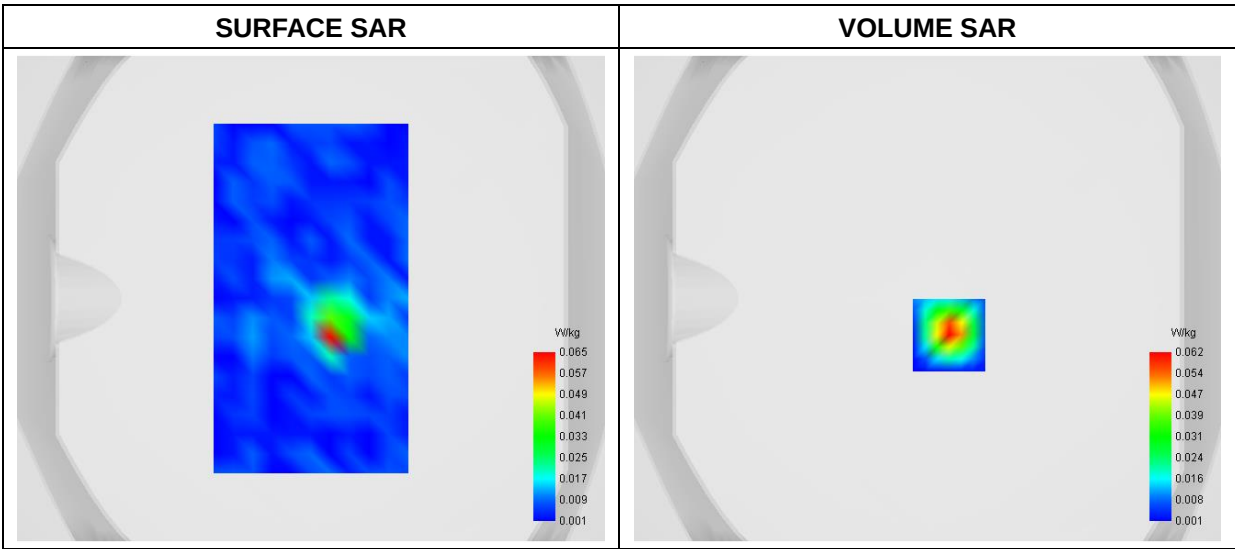
A. Experimental conditions

|                 |                      |
|-----------------|----------------------|
| Area Scan       | dx=8mm dy=8mm        |
| Zoom Scan       | dx=5mm dy=5mm dz=4mm |
| Phantom         | Flat Plane           |
| Device Position | Back                 |
| Band            | Bluetooth_GFSK       |
| Channels        | Middle               |
| Signal          | Duty Cycle 1:1       |

B. SAR Measurement Results

|                                   |             |
|-----------------------------------|-------------|
| Frequency (MHz)                   | 2441.000000 |
| Relative Permittivity (real part) | 40.260282   |
| Conductivity (S/m)                | 1.752155    |
| Power Variation (%)               | 2.403721    |
| Ambient Temperature               | 22.1        |
| Liquid Temperature                | 22.1        |

C. SAR Surface and Volume



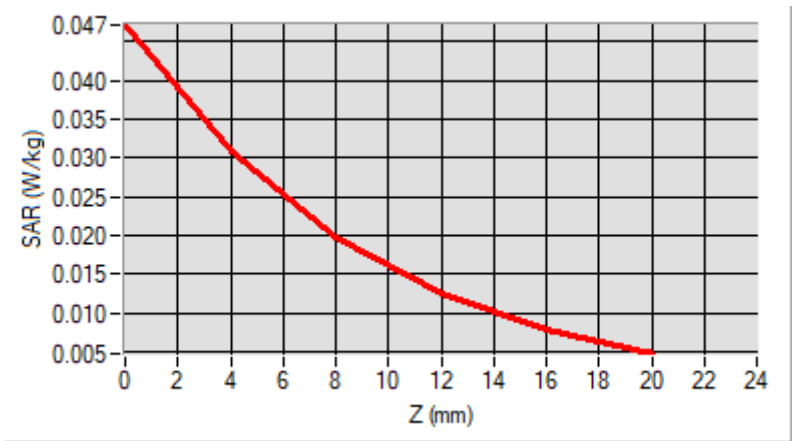
Maximum location: X=9.00, Y=-15.00

D. SAR 1g & 10g

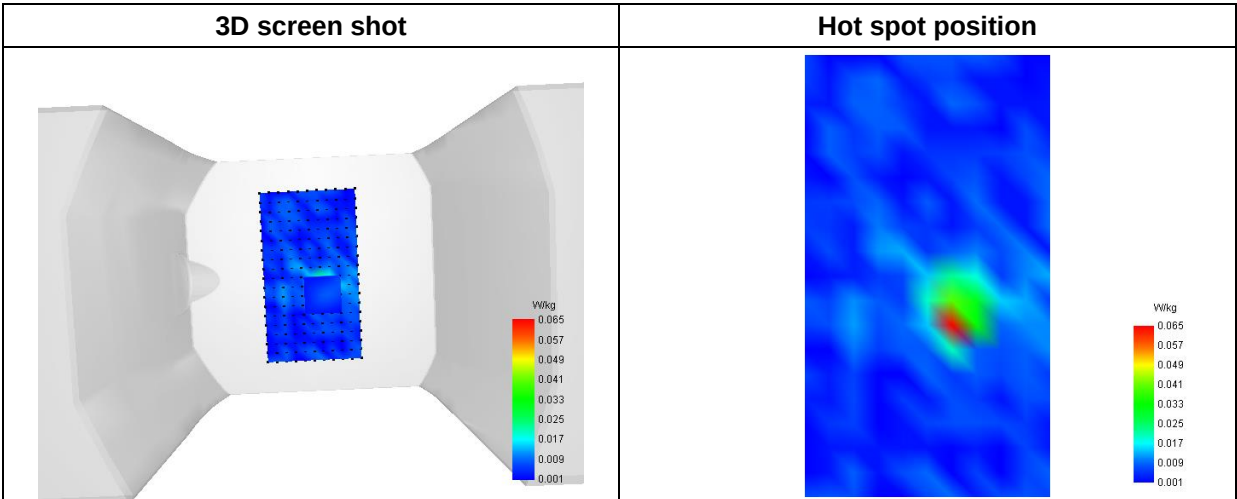
|                |          |
|----------------|----------|
| SAR 10g (W/Kg) | 0.015839 |
| SAR 1g (W/Kg)  | 0.029730 |

E. Z Axis Scan

|            |        |        |        |        |        |
|------------|--------|--------|--------|--------|--------|
| Z (mm)     | 0.00   | 4.00   | 8.00   | 12.00  | 16.00  |
| SAR (W/Kg) | 0.0471 | 0.0307 | 0.0197 | 0.0125 | 0.0079 |



F. 3D Image



MEASUREMENT 14

Type: Phone measurement (Complete)  
Date of measurement: 2023-09-13  
Measurement duration: 12 minutes 3 seconds

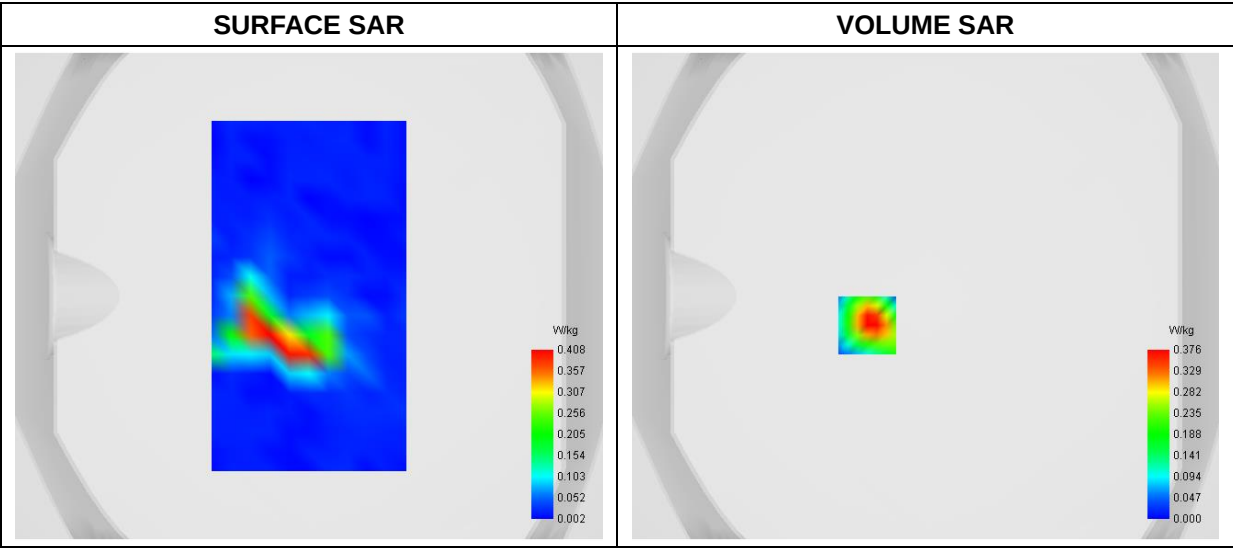
A. Experimental conditions

|                 |                      |
|-----------------|----------------------|
| Area Scan       | dx=8mm dy=8mm        |
| Zoom Scan       | dx=4mm dy=4mm dz=2mm |
| Phantom         | Flat Plane           |
| Device Position | Back                 |
| Band            | WiFi(5.2GHz)_802.11a |
| Channels        | Low                  |
| Signal          | Duty Cycle: 1:1      |

B. SAR Measurement Results

|                                   |             |
|-----------------------------------|-------------|
| Frequency (MHz)                   | 5180.000000 |
| Relative Permittivity (real part) | 35.982911   |
| Conductivity (S/m)                | 4.611483    |
| Power Variation (%)               | 0.542660    |
| Ambient Temperature               | 22.3        |
| Liquid Temperature                | 22.3        |

C. SAR Surface and Volume

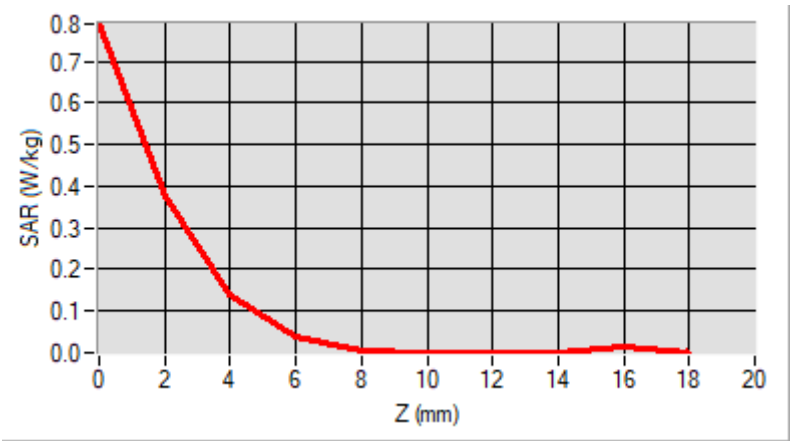


Maximum location: X=-24.00, Y=-12.00  
D. SAR 1g & 10g

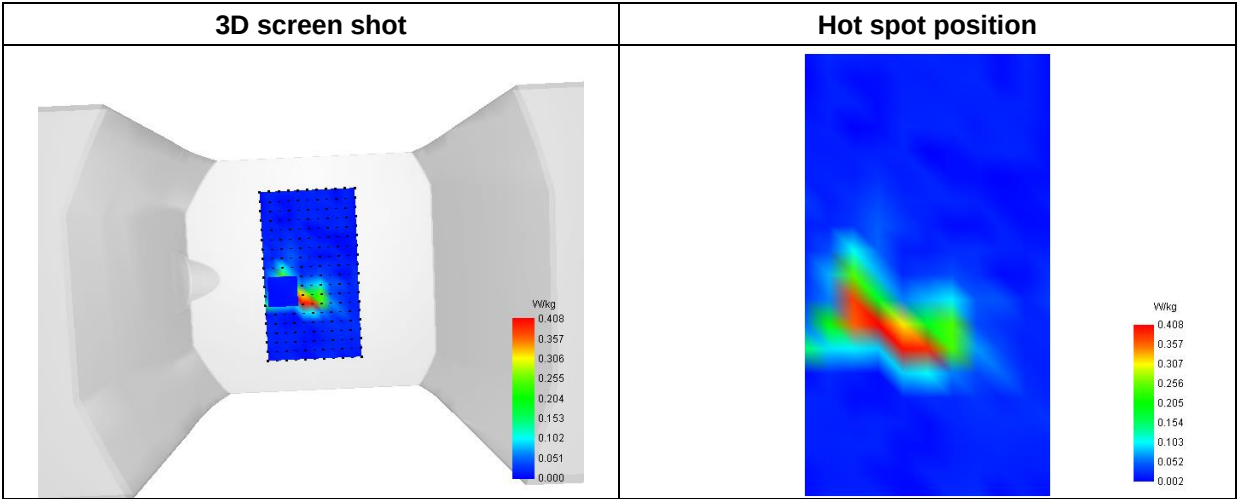
|                |          |
|----------------|----------|
| SAR 10g (W/Kg) | 0.047204 |
| SAR 1g (W/Kg)  | 0.196558 |

E. Z Axis Scan

|            |        |        |        |        |        |        |        |        |        |
|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Z (mm)     | 0.00   | 2.00   | 4.00   | 6.00   | 8.00   | 10.00  | 12.00  | 14.00  | 16.00  |
| SAR (W/Kg) | 0.7901 | 0.3763 | 0.1379 | 0.0363 | 0.0066 | 0.0000 | 0.0011 | 0.0021 | 0.0123 |



F. 3D Image



MEASUREMENT 15

Type: Phone measurement (Complete)  
Date of measurement: 2023-09-13  
Measurement duration: 12 minutes 3 seconds

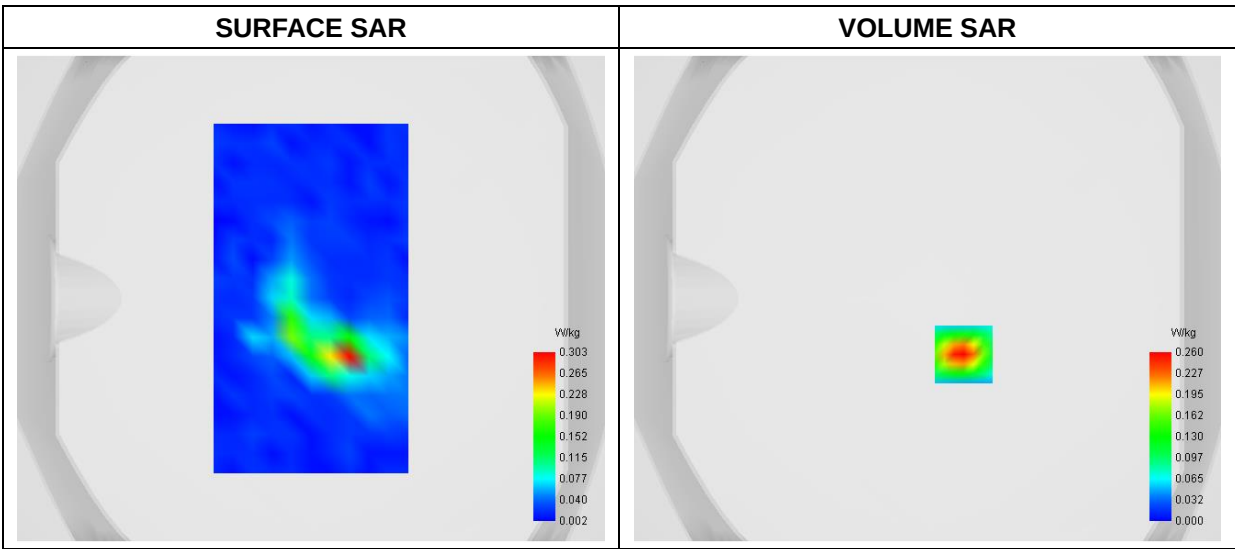
A. Experimental conditions

|                 |                      |
|-----------------|----------------------|
| Area Scan       | dx=8mm dy=8mm        |
| Zoom Scan       | dx=4mm dy=4mm dz=2mm |
| Phantom         | Flat Plane           |
| Device Position | Back                 |
| Band            | WiFi(5.3GHz)_802.11a |
| Channels        | Middle               |
| Signal          | Duty Cycle: 1:1      |

B. SAR Measurement Results

|                                   |             |
|-----------------------------------|-------------|
| Frequency (MHz)                   | 5280.000000 |
| Relative Permittivity (real part) | 35.981839   |
| Conductivity (S/m)                | 4.610922    |
| Power Variation (%)               | 0.463782    |
| Ambient Temperature               | 22.3        |
| Liquid Temperature                | 22.3        |

C. SAR Surface and Volume

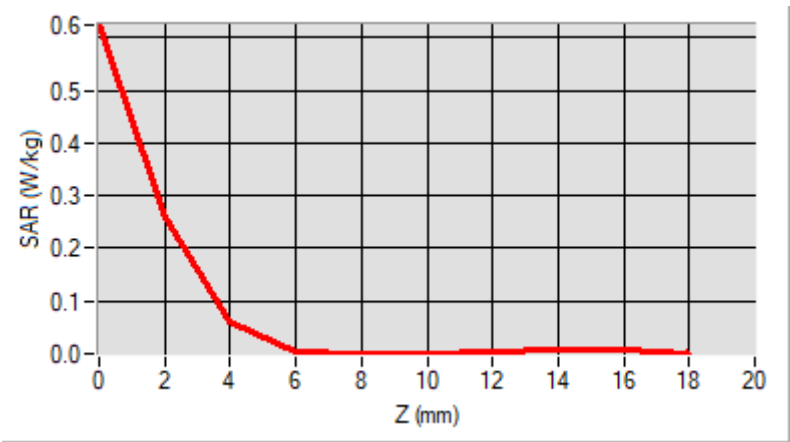


Maximum location: X=15.00, Y=-23.00  
D. SAR 1g & 10g

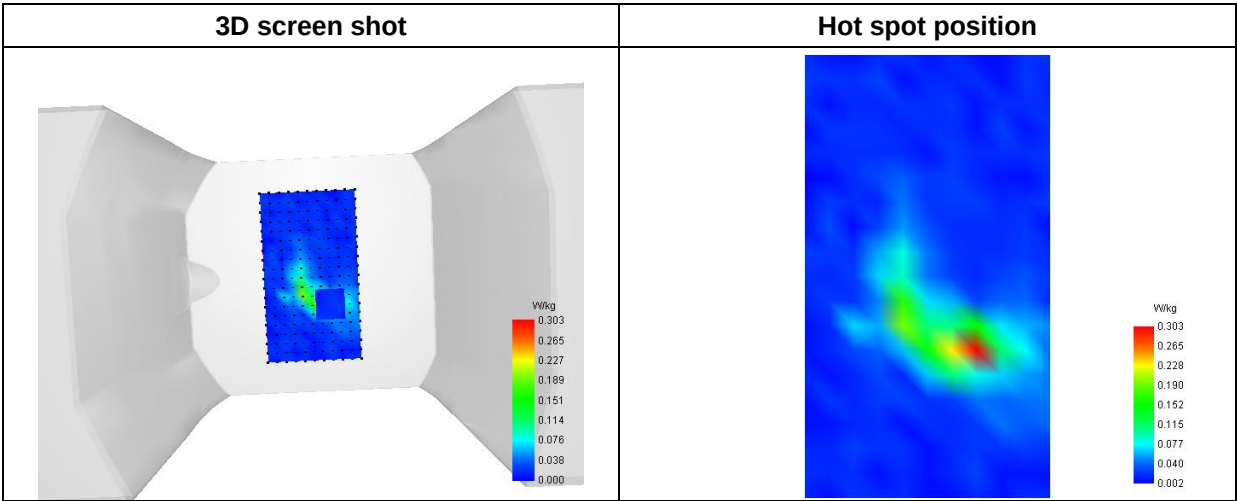
|                |          |
|----------------|----------|
| SAR 10g (W/Kg) | 0.028930 |
| SAR 1g (W/Kg)  | 0.148214 |

E. Z Axis Scan

|            |        |        |        |        |        |        |        |        |        |
|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Z (mm)     | 0.00   | 2.00   | 4.00   | 6.00   | 8.00   | 10.00  | 12.00  | 14.00  | 16.00  |
| SAR (W/Kg) | 0.6245 | 0.2599 | 0.0619 | 0.0039 | 0.0005 | 0.0008 | 0.0055 | 0.0071 | 0.0084 |



F. 3D Image





MEASUREMENT 16

Type: Phone measurement (Complete)  
Date of measurement: 2023-09-13  
Measurement duration: 12 minutes 3 seconds

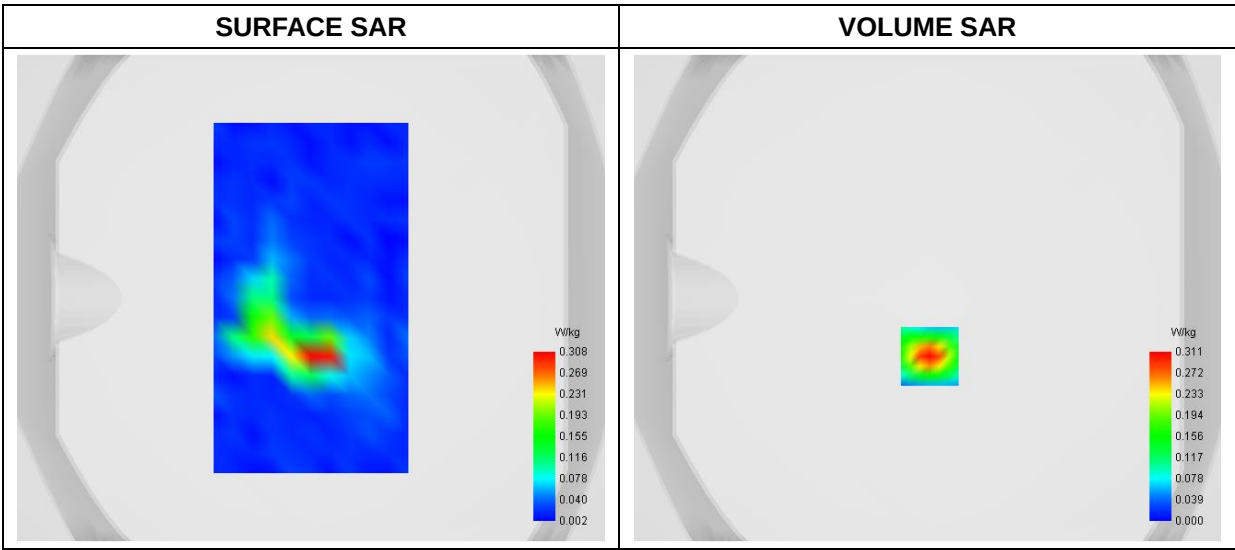
A. Experimental conditions

|                 |                       |
|-----------------|-----------------------|
| Area Scan       | dx=8mm dy=8mm         |
| Zoom Scan       | dx=4mm dy=4mm dz=2mm  |
| Phantom         | Flat Plane            |
| Device Position | Back                  |
| Band            | WiFi(5.8GHz)_ 802.11a |
| Channels        | Low                   |
| Signal          | Duty Cycle: 1:1       |

B. SAR Measurement Results

|                                   |             |
|-----------------------------------|-------------|
| Frequency (MHz)                   | 5745.000000 |
| Relative Permittivity (real part) | 35.261483   |
| Conductivity (S/m)                | 5.241254    |
| Power Variation (%)               | 1.210512    |
| Ambient Temperature               | 22.3        |
| Liquid Temperature                | 22.3        |

C. SAR Surface and Volume



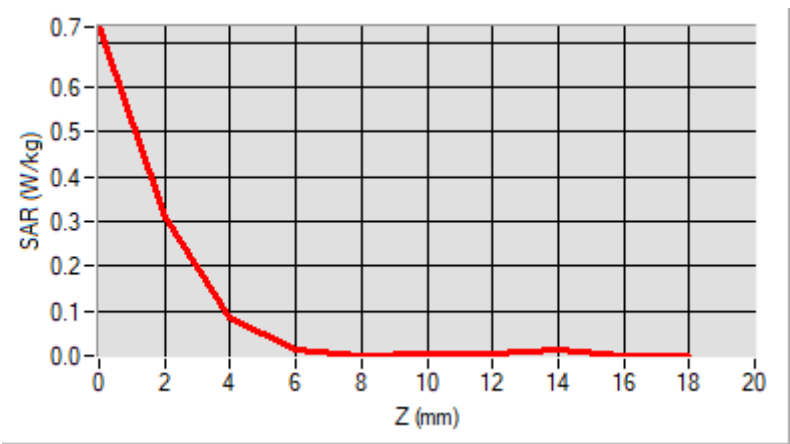
Maximum location: X=1.00, Y=-24.00

D. SAR 1g & 10g

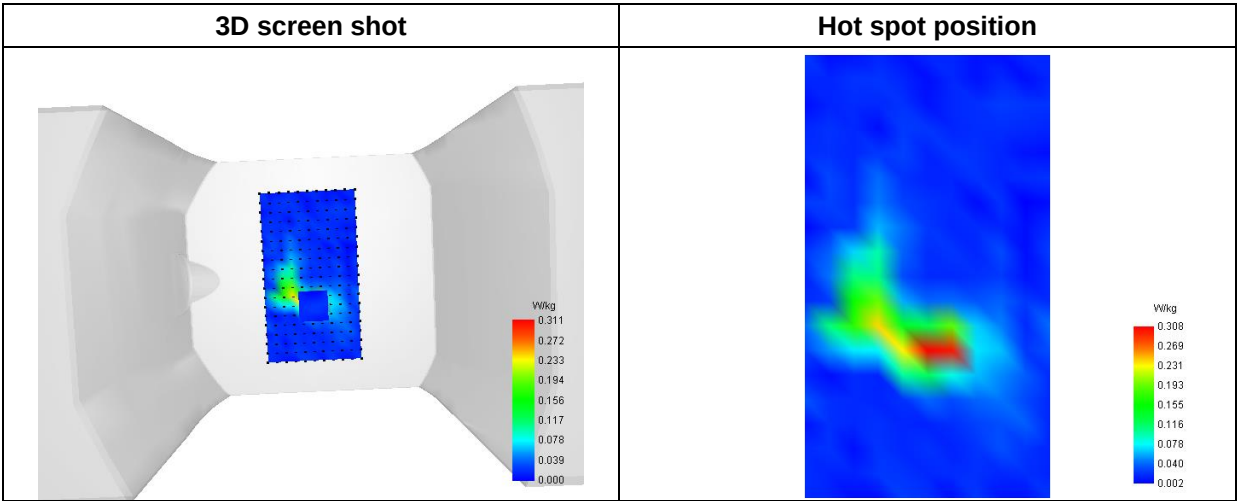
|                |          |
|----------------|----------|
| SAR 10g (W/Kg) | 0.035105 |
| SAR 1g (W/Kg)  | 0.168716 |

E. Z Axis Scan

|            |        |        |        |        |        |        |        |        |        |
|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Z (mm)     | 0.00   | 2.00   | 4.00   | 6.00   | 8.00   | 10.00  | 12.00  | 14.00  | 16.00  |
| SAR (W/Kg) | 0.7349 | 0.3111 | 0.0858 | 0.0115 | 0.0006 | 0.0044 | 0.0061 | 0.0132 | 0.0000 |



F. 3D Image



## Annex C. EUT Photos

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### EUT View 1

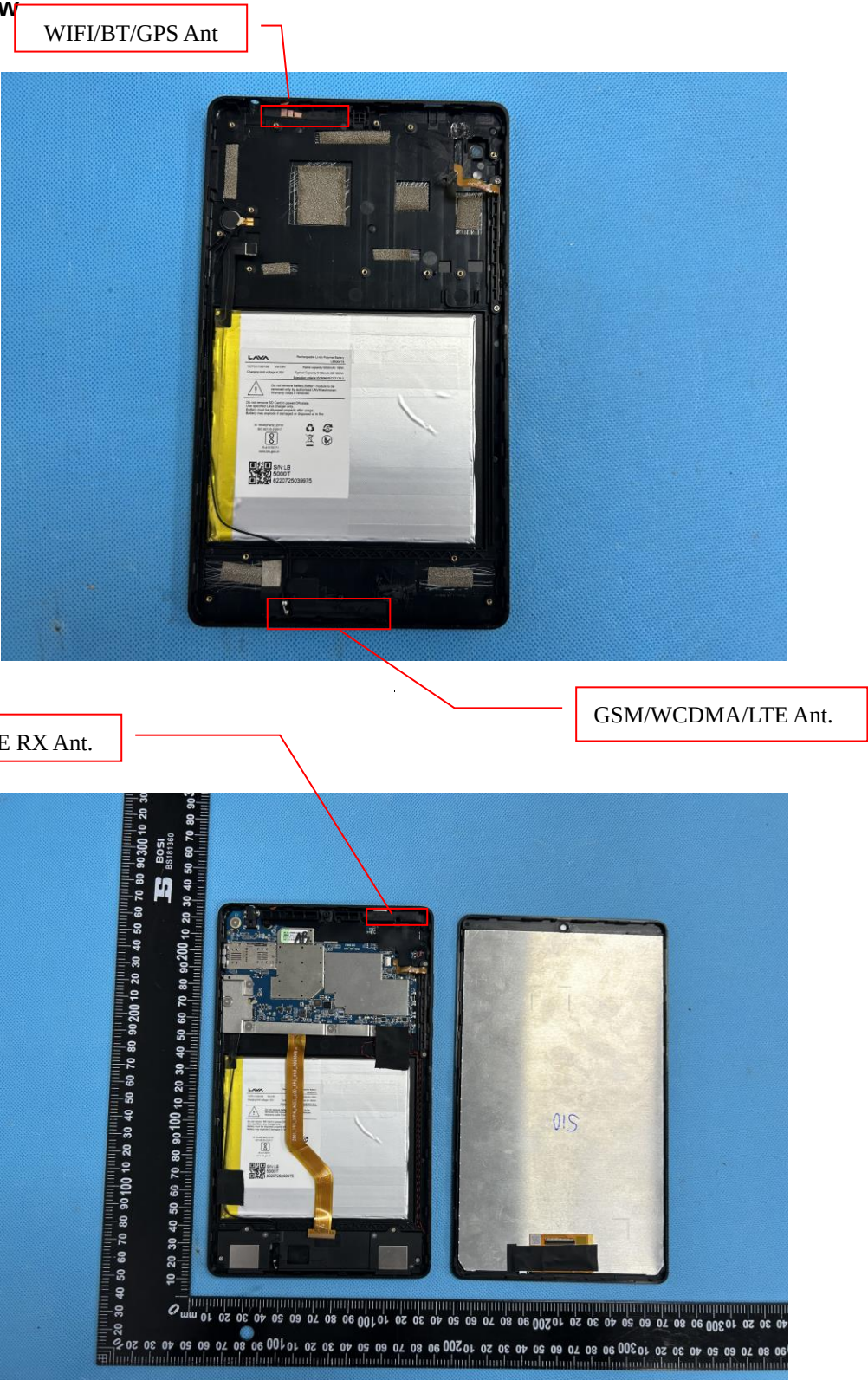


### EUT View 2





Antenna View



## Annex D. Test Setup Photos

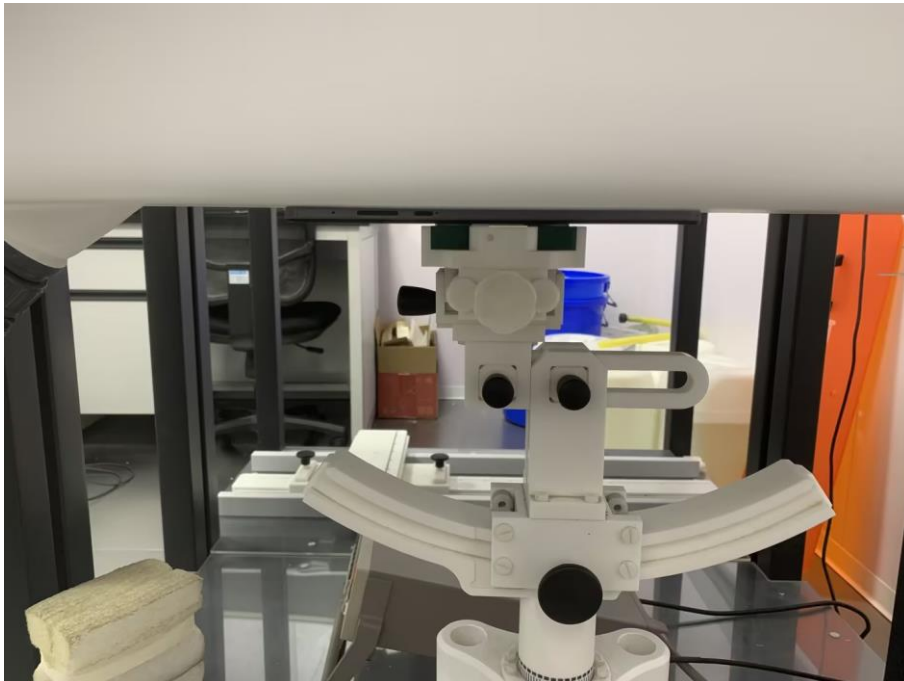
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**Body mode Exposure Conditions**  
**Test distance: 0mm**

**Body Front**



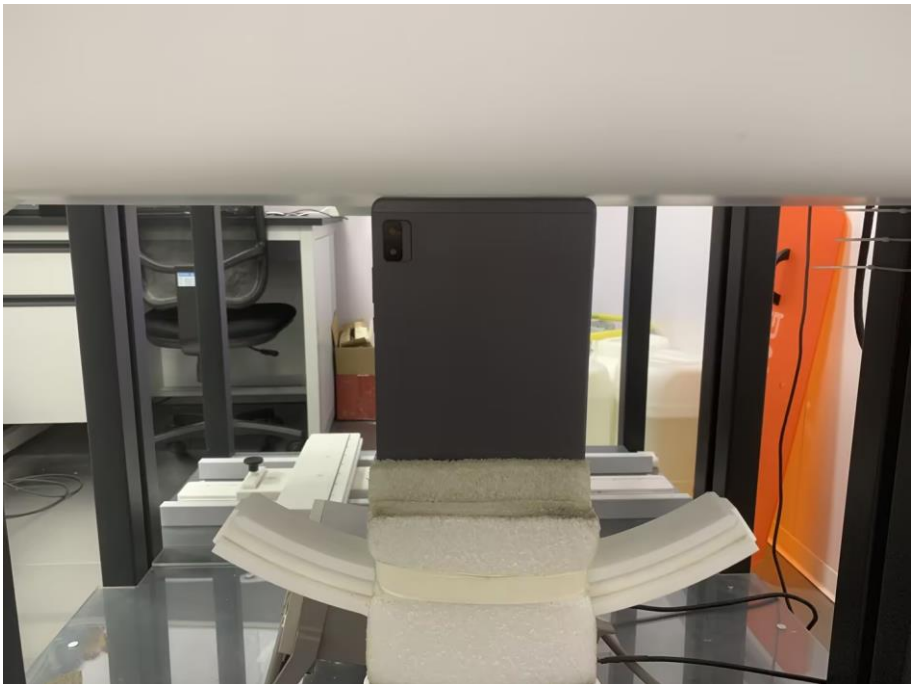
**Body Back**



Body Left



Body Top



### Body Bottom



## **Annex E. Calibration Certificate**

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***Please refer to the exhibit for the calibration certificate***

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