

# TEST REPORT

Reference No..... : WTX22X03048363W  
FCC ID ..... : 2A6C5-LBGC0001  
Applicant ..... : Guardian Call Solutions inc  
Address..... : 3 Marina Terrace, Treasure Island FL 33706, USA  
Manufacturer ..... : The same as Applicant  
Address..... : The same as Applicant  
Product Name ..... : LutiBand and GuardianCall  
Model No..... : LBGC0001  
Standards ..... : FCC Part 2.1093  
IEEE Std C95.1: 2019  
IEEE Std C95.3: 2002 + Rev. 2008  
IEC/IEEE 62209-1528:2020  
Date of Receipt sample .... : 2022-04-06  
Date of Test..... : 2022-04-06 to 2022-04-20  
Date of Issue ..... : 2022-04-20  
Test Report Form No. .... : WTX\_IEEE62209\_1528\_2020W  
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:

### 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  
Tel.: +86-755-33663308 Fax.: +86-755-33663309 Email: sem@waltek.com.cn

Tested by:

Jack Sun

Jack Sun

Approved by:

Silin Chen

Silin Chen

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Report version

| Version No. | Date of issue | Description |
|-------------|---------------|-------------|
| Rev.00      | 2022-04-20    | Original    |
| /           | /             | /           |

## 1. General Information

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

| General Description of EUT:                                                                   |                                       |
|-----------------------------------------------------------------------------------------------|---------------------------------------|
| Product Name:                                                                                 | LutiBand and GuardianCall             |
| Trade Name:                                                                                   | /                                     |
| Model No.:                                                                                    | LBGC0001                              |
| Adding Model(s):                                                                              | /                                     |
| Rated Voltage:                                                                                | Battery DC 3.8V                       |
| Battery Capacity:                                                                             | 410mAh                                |
| Software Version:                                                                             | mz3683_huazhao_h30_V3.7_20220328_test |
| Hardware Version:                                                                             | Mz3683MBV1.1                          |
|                                                                                               |                                       |
| <i>Note: The test data is gathered from a production sample provided by the manufacturer.</i> |                                       |

| <b>Technical Characteristics of EUT:</b>                                                          |                                                                                                                                                                                    |
|---------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>2G</b>                                                                                         |                                                                                                                                                                                    |
| Support Networks:                                                                                 | GSM, GPRS                                                                                                                                                                          |
| Support Band:                                                                                     | GSM850/PCS1900                                                                                                                                                                     |
| Uplink Frequency:                                                                                 | GSM/GPRS 850: 824~849MHz<br>GSM/GPRS 1900: 1850~1910MHz                                                                                                                            |
| Downlink Frequency:                                                                               | GSM/GPRS 850: 869~894MHz<br>GSM/GPRS 1900: 1930~1990MHz                                                                                                                            |
| Max RF Output Power:                                                                              | GSM850: 32.91dBm, GSM1900: 29.55dBm                                                                                                                                                |
| Type of Modulation:                                                                               | GMSK                                                                                                                                                                               |
| Type of Antenna:                                                                                  | Integral Antenna                                                                                                                                                                   |
| Antenna Gain:                                                                                     | GSM850: 0dBi; GSM1900: 0dBi                                                                                                                                                        |
| GPRS Class:                                                                                       | Class 12                                                                                                                                                                           |
| <b>4G</b>                                                                                         |                                                                                                                                                                                    |
| Support Networks:                                                                                 | FDD-LTE                                                                                                                                                                            |
| Support Band:                                                                                     | FDD-LTE Band 2, 4, 5, 7, 12                                                                                                                                                        |
| Uplink Frequency:                                                                                 | FDD-LTE Band 2: Tx: 1850-1910MHz,<br>FDD-LTE Band 4: Tx: 1710-1755MHz,<br>FDD-LTE Band 5: Tx: 824-849MHz,<br>FDD-LTE Band 7: Tx: 2500-2570MHz,<br>FDD-LTE Band 12: Tx: 699-716MHz, |
| Downlink Frequency:                                                                               | FDD-LTE Band 2: Rx: 1930-1990MHz,<br>FDD-LTE Band 4: Rx: 2110-2155MHz,<br>FDD-LTE Band 5: Rx: 869-894MHz,<br>FDD-LTE Band 7: Rx: 2620-2690MHz,<br>FDD-LTE Band 12: Rx: 729-746MHz, |
| RF Output Power:                                                                                  | FDD-LTE Band 2: 24.51dBm,<br>FDD-LTE Band 4: 25.07dBm,<br>FDD-LTE Band 5: 25.09dBm,<br>FDD-LTE Band 7: 24.61dBm,<br>FDD-LTE Band 12: 24.82dBm                                      |
| Type of Modulation:                                                                               | QPSK, 16QAM                                                                                                                                                                        |
| Antenna Type:                                                                                     | Integral Antenna                                                                                                                                                                   |
| Antenna Gain:                                                                                     | FDD-LTE Band 2: 0dBi,<br>FDD-LTE Band 4: 0dBi,<br>FDD-LTE Band 5: 0dBi,<br>FDD-LTE Band 7: 0dBi,<br>FDD-LTE Band 12: 0dBi                                                          |
| <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 62209-1528:2020, KDB 447498 D01 v06, KDB 648474 D04 v01r03, KDB 248227 D01 v02r02, KDB 941225 D01 v03r01, KDB 941225 D05 v02r05 , 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 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:

### Near to Mouth(10mm Gap)

| Frequency Band | Maximum SAR <sub>1g</sub><br>(W/kg) | SAR <sub>1g</sub><br>Limit<br>(W/kg) |
|----------------|-------------------------------------|--------------------------------------|
| GSM            | 0.465                               | 1.6                                  |
| FDD-LTE        | <b>1.102</b>                        | 1.6                                  |

### Wrist-worn(0mm Gap)

| Frequency Band | Maximum SAR <sub>10g</sub><br>(W/kg) | SAR <sub>10g</sub><br>Limit<br>(W/kg) |
|----------------|--------------------------------------|---------------------------------------|
| GSM            | 1.030                                | 4.0                                   |
| FDD-LTE        | <b>1.750</b>                         | 4.0                                   |

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 62209-1528:2020 and KDB 865664 D01 v01r04 and KDB 865664 D02 v01r02.

### 3. Specific Absorption Rate (SAR)

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#### 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:

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

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

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

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

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

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

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 45/15 EPGO280 with following specifications is used

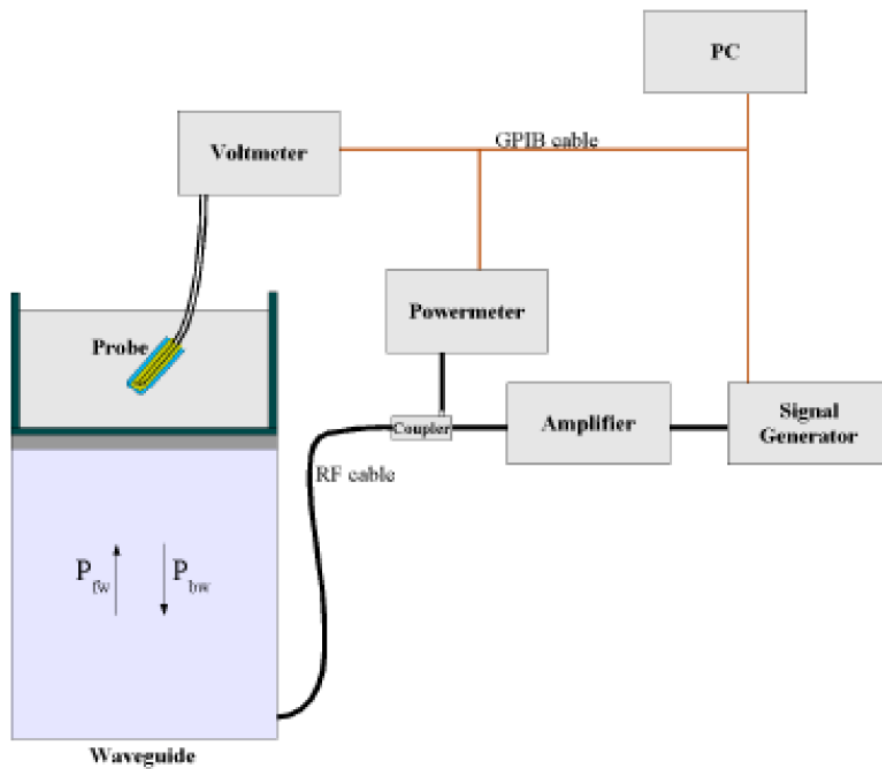
- Dynamic range: 0.01-100 W/kg
- Probe Length: 330 mm
- Length of Individual Dipoles: 4.5 mm
- Maximum external diameter: 8 mm
- Probe Tip External Diameter : 5 mm

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- Distance between dipoles / probe extremity: 2.7mm
  - Probe linearity: <0.25 dB
  - Axial Isotropy: <0.25 dB
  - Spherical Isotropy: <0.50 dB
  - Calibration range: 700 to 3000MHz for head & body simulating liquid.
- Angle between probe axis (evaluation axis) and surface normal line: less than 30°

Probe calibration is realized, in compliance with EN 62209-1 and IEEE 1528 STD, with CALISAR, Antennessa proprietary calibration system. The calibration is performed with the EN 62209-1 annexe 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.

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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.

Where:

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

$\Delta t$  = 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,

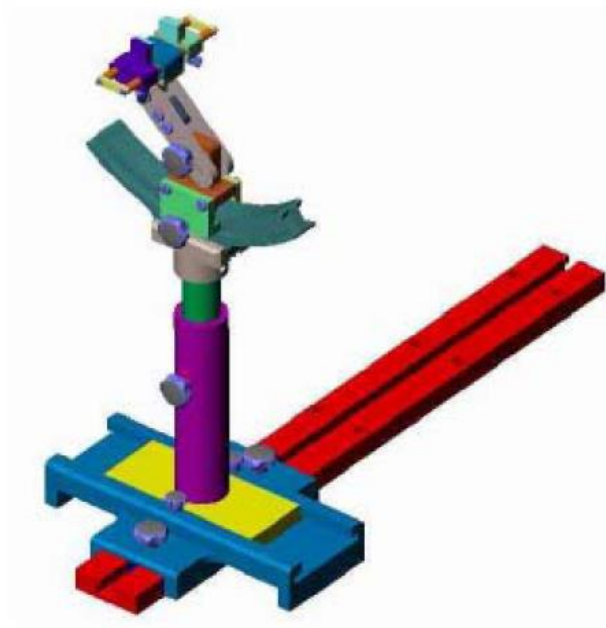
$\rho$  = Tissue density (1.25 g/cm<sup>3</sup> for brain tissue)

#### 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        |

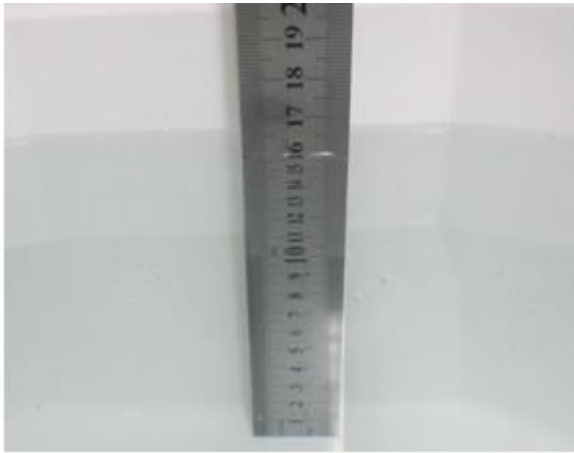
#### 4.6 Test Equipment List

| Description                               | Manufacturer    | Model         | Serial Number             | Cal. Date  | Due. Date  |
|-------------------------------------------|-----------------|---------------|---------------------------|------------|------------|
| E-Field Probe                             | MVG             | SSE2          | SN 18/21 EPGO356          | 2021-07-16 | 2022-07-15 |
| 750MHz Dipole                             | MVG             | SID750        | SN 47/12 DIP<br>0G750-203 | 2020-03-11 | 2023-03-10 |
| 835MHz Dipole                             | MVG             | SID835        | SN 47/12 DIP<br>0G835-204 | 2020-03-11 | 2023-03-10 |
| 900MHz Dipole                             | MVG             | SID900        | SN 47/12 DIP<br>0G900-205 | 2020-03-11 | 2023-03-10 |
| 1800MHz Dipole                            | MVG             | SID1800       | SN 47/12 DIP<br>1G800-206 | 2020-03-11 | 2023-03-10 |
| 1900MHz Dipole                            | MVG             | SID1900       | SN 47/12 DIP<br>1G900-207 | 2020-03-11 | 2023-03-10 |
| 2000MHz Dipole                            | MVG             | SID2000       | SN 47/12 DIP<br>2G000-208 | 2020-03-11 | 2023-03-10 |
| 2450MHz Dipole                            | MVG             | SID2450       | SN 13/15 DIP<br>2G450-364 | 2020-03-11 | 2023-03-10 |
| 2600MHz Dipole                            | MVG             | SID2600       | SN 28/21 DIP<br>2G600-590 | 2021-07-16 | 2024-07-15 |
| 5 GHz Dipole                              | MVG             | SWG5500       | SN 49/16 WGA45            | 2020-07-03 | 2023-07-02 |
| Dielectric Probe                          | SATIMO          | SCLMP         | SN 47/12 OCPG49           | 2022-03-22 | 2023-03-21 |
| SAM Phantom                               | SATIMO          | SAM           | SN/ 47/12 SAM95           | N/A        | N/A        |
| Multi Meter                               | Keithley        | Keithley 2000 | 4006367                   | 2022-03-22 | 2023-03-21 |
| Power meter                               | Keithley        | 3500          | JC-2017-09-001            | 2022-03-22 | 2023-03-21 |
| Power meter                               | Keithley        | 3500          | JC-2017-09-001            | 2022-03-22 | 2023-03-21 |
| Power Sensor                              | HP              | 11636B        | JC-2017-10-002            | 2022-03-22 | 2023-03-21 |
| MXG X-Series RF Vector<br>Signal Generato | KEYSIGHT        | N5182B        | MY57300664                | 2022-03-22 | 2023-03-21 |
| Universal Tester                          | Rohde & Schwarz | CMU200        | 112315                    | 2022-03-22 | 2023-03-21 |
| Universal Radio<br>Communication Tester   | Rohde & Schwarz | CMW500        | 148650                    | 2022-03-22 | 2023-03-21 |
| Network Analyzer                          | HP              | 8753C         | 2901A00831                | 2022-03-22 | 2023-03-21 |

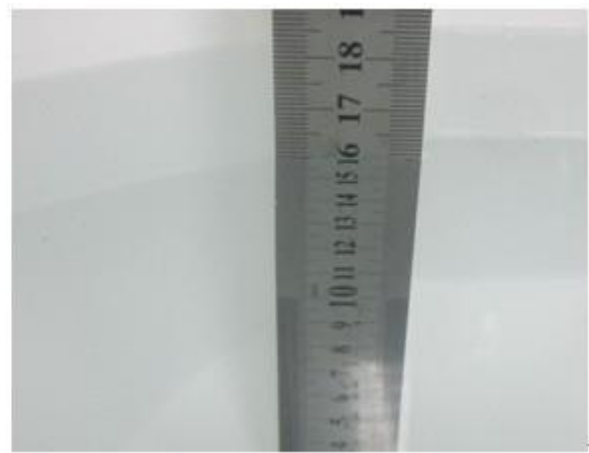
## 5. Tissue Simulating Liquids

### 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 SAR**



**Liquid Height for Body SAR**

#### The Composition of Tissue Simulating Liquid

| Frequency (MHz) | Water (%) | Salt (%) | Sugar (%) | HEC (%) | Preventol (%) | DGBE (%) |
|-----------------|-----------|----------|-----------|---------|---------------|----------|
| <b>Head</b>     |           |          |           |         |               |          |
| 750             | 41.1      | 1.4      | 57.0      | 0.2     | 0.3           | 0        |
| 835             | 40.3      | 1.4      | 57.9      | 0.2     | 0.2           | 0        |
| 1700-1900       | 55.2      | 0.3      | 0         | 0       | 0             | 44.5     |
| 2300            | 55.0      | 0.2      | 0         | 0       | 0             | 44.8     |
| 2450            | 55.0      | 0.1      | 0         | 0       | 0             | 44.9     |
| 2600            | 54.9      | 0.1      | 0         | 0       | 0             | 45.0     |
| <b>Body</b>     |           |          |           |         |               |          |
| 750             | 50.0      | 0.8      | 48.8      | 0.2     | 0.2           | 0        |
| 835             | 50.8      | 0.9      | 48.1      | 0.1     | 0.1           | 0        |
| 1700-1900       | 70.2      | 0.4      | 0         | 0       | 0             | 29.4     |
| 2300            | 68.6      | 0.3      | 0         | 0       | 0             | 31.1     |
| 2450            | 68.6      | 0.1      | 0         | 0       | 0             | 31.3     |
| 2600            | 68.2      | 0.1      | 0         | 0       | 0             | 31.7     |

| Frequency<br>(MHz) | Water<br>(%) | Hexyl Carbitol<br>(%) | Triton X-100<br>(%) |
|--------------------|--------------|-----------------------|---------------------|
| <b>Head</b>        |              |                       |                     |
| 5000-6000          | 65.52        | 17.24                 | 17.24               |
| <b>Body</b>        |              |                       |                     |
| 5000-6000          | 78.6         | 10.7                  | 10.7                |

## 5.2 Tissue Dielectric Parameters for Head and Body Phantoms

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

| Target Frequency<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                             |
| <b>750</b>                | <b>0.89</b>                  | <b>41.9</b>                      | <b>0.96</b>                  | <b>55.5</b>                      |
| <b>835</b>                | <b>0.90</b>                  | <b>41.5</b>                      | <b>0.97</b>                  | <b>55.2</b>                      |
| 900                       | 0.97                         | 41.5                             | 1.05                         | 55.0                             |
| 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>                      |
| 2300                      | 1.67                         | 39.5                             | 1.81                         | 52.9                             |
| 2450                      | 1.80                         | 39.2                             | 1.95                         | 52.7                             |
| <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                             |
| 5200                      | 4.66                         | 36.0                             | 5.30                         | 49.0                             |
| 5400                      | 4.86                         | 35.8                             | 5.53                         | 48.7                             |
| 5600                      | 5.07                         | 35.5                             | 5.77                         | 48.5                             |
| 5800                      | 5.27                         | 35.3                             | 6.00                         | 48.2                             |

### 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>(%) |              |            |
| 750                           | 21.2          | 0.86                    | 0.89                   | -3.37        | 41.32                       | 41.9                       | -1.38        | ±5           | 2022-04-18 |
| 835                           | 21.2          | 0.87                    | 0.90                   | -3.33        | 41.11                       | 41.5                       | -0.94        | ±5           | 2022-04-18 |
| 1800                          | 21.3          | 1.37                    | 1.40                   | -2.14        | 39.62                       | 40.0                       | -0.95        | ±5           | 2022-04-19 |
| 1900                          | 21.3          | 1.38                    | 1.40                   | -1.43        | 39.56                       | 40.0                       | -1.10        | ±5           | 2022-04-19 |
| 2600                          | 21.3          | 1.99                    | 1.96                   | 1.53         | 39.22                       | 39.0                       | 0.56         | ±5           | 2022-04-11 |

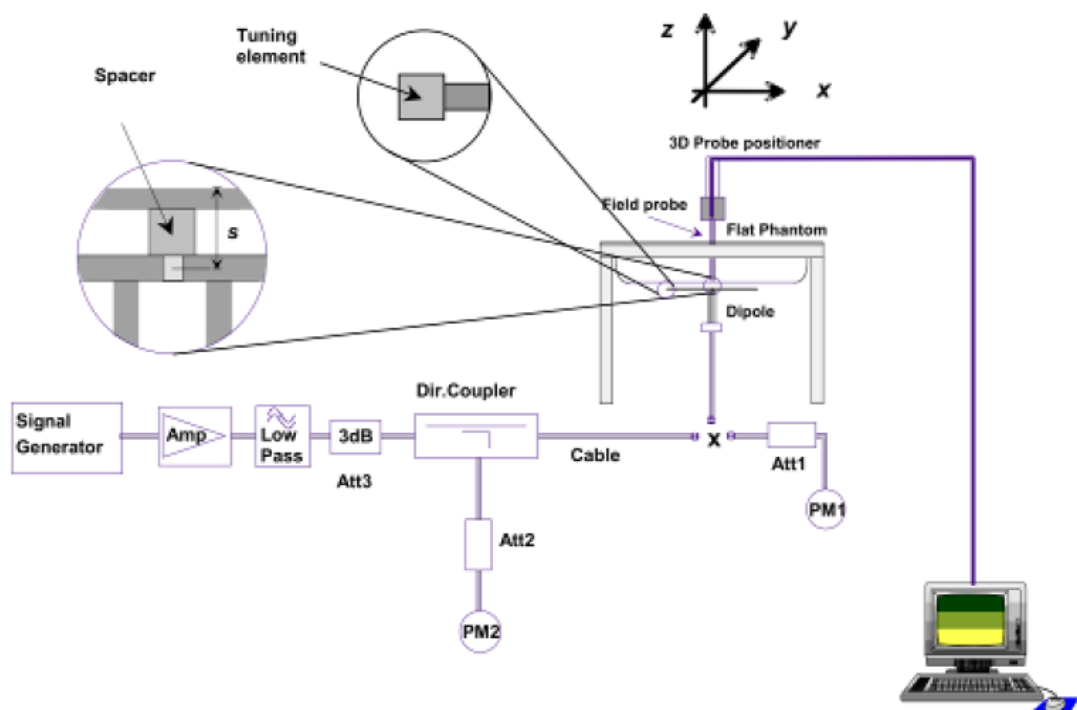
## 6. SAR Measurement Evaluation

### 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.

The output power on 5 GHz Waveguide must be calibrated to 20 dBm (100mW) before 5 GHz Waveguide 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 | Targeted SAR <sub>1g</sub> | Measured SAR <sub>1g</sub> | Normalized SAR <sub>1g</sub> | Tolerance | Date       |
|-----------|----------------------------|----------------------------|------------------------------|-----------|------------|
| MHz       | (W/kg)                     | (W/kg)                     | (W/kg)                       | (%)       |            |
| Head      |                            |                            |                              |           |            |
| 750       | 8.40                       | 2.16                       | 8.64                         | 2.86      | 2022-04-18 |
| 835       | 9.65                       | 2.41                       | 9.64                         | -0.10     | 2022-04-18 |
| 1800      | 38.49                      | 9.61                       | 38.44                        | -0.13     | 2022-04-19 |
| 1900      | 39.59                      | 9.91                       | 39.64                        | 0.13      | 2022-04-19 |
| 2600      | 56.81                      | 13.67                      | 54.68                        | -3.75     | 2022-04-11 |

| Frequency | Targeted SAR <sub>10g</sub> | Measured SAR <sub>10g</sub> | Normalized SAR <sub>10g</sub> | Tolerance | Date       |
|-----------|-----------------------------|-----------------------------|-------------------------------|-----------|------------|
| MHz       | (W/kg)                      | (W/kg)                      | (W/kg)                        | (%)       |            |
| Head      |                             |                             |                               |           |            |
| 750       | 5.51                        | 1.34                        | 5.36                          | -2.72     | 2022-04-18 |
| 835       | 6.26                        | 1.45                        | 5.8                           | -7.35     | 2022-04-18 |
| 1800      | 20.67                       | 5.07                        | 20.28                         | -1.89     | 2022-04-19 |
| 1900      | 20.73                       | 5.17                        | 20.68                         | -0.24     | 2022-04-19 |
| 2600      | 24.63                       | 6.27                        | 25.08                         | 1.83      | 2022-04-11 |

**Remark:** Referring to IEC/IEEE 62209-1528:2020, Section 8.2, 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.**

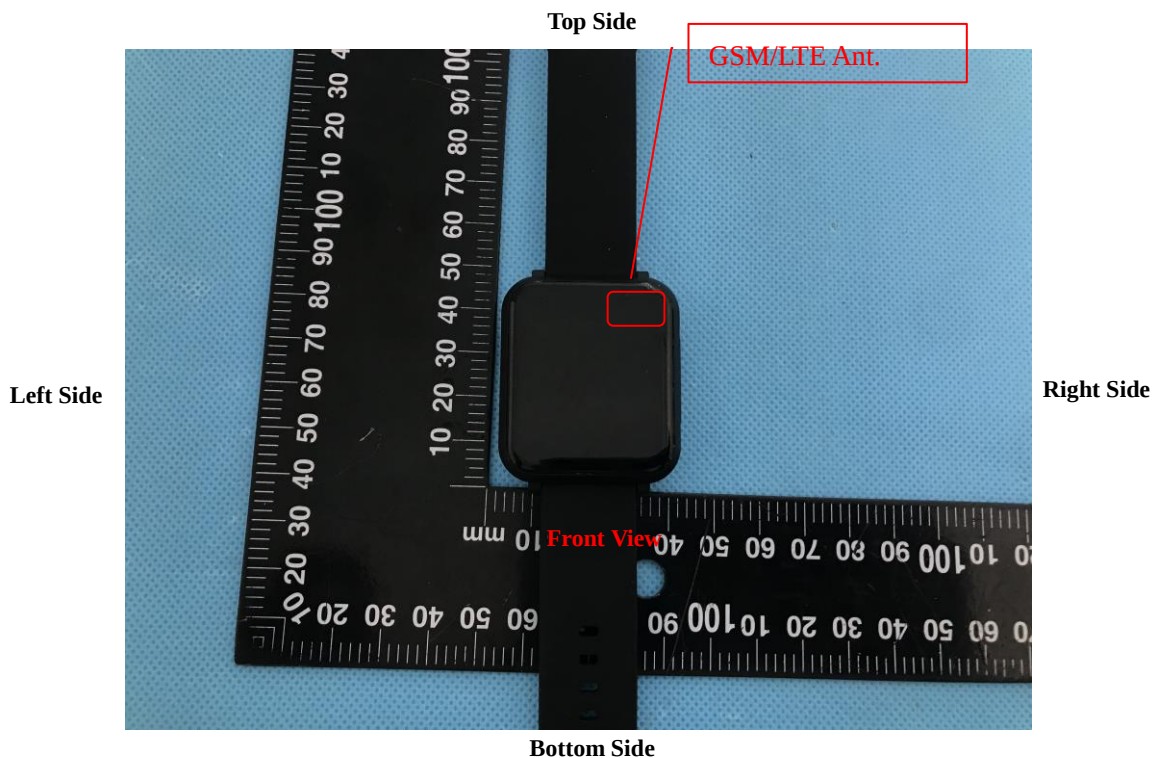
## 7. EUT Testing Position

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### 7.1 Wrist-worn device

- (a) Transmitters that are built-in within a wrist watch or similar wrist-worn devices typically operate in speaker mode for voice communication, with the device worn on the wrist and positioned next to the mouth. Next to the mouth exposure requires 1-g SAR, and the wrist-worn condition requires 10-g extremity SAR.
- (b) The 10-g extremity and 1-g SAR test exclusions may be applied to the wrist and face exposure conditions. When SAR evaluation is required, next to the mouth use is evaluated with the front of the device positioned at 10 mm from a flat phantom filled with head tissue-equivalent medium.
- (c) For wrist-worn condition, 10g SAR value should be measured for the inner wrist band at a separation of 0mm. The design of the hard wrist band prevents opening it to a flat shape to be placed under the flat phantom.
- (d) Next to the mouth use is evaluated with the front of the device positioned at 10 mm from a flat phantom filled with head tissue-equivalent medium. SAR for wrist exposure is evaluated with the back of the devices positioned in direct contact against a flat phantom fill with body tissue-equivalent medium.

### 7.2 EUT Antenna Position



Block Diagram for EUT Antenna Position

| Body SAR tests, Wrist-worn SAR Test distance: 0mm      |       |      |            |           |          |        |
|--------------------------------------------------------|-------|------|------------|-----------|----------|--------|
| Antennas                                               | Front | Back | Right Side | Left Side | Top Side | Bottom |
| WWAN                                                   | No    | Yes  | No         | No        | No       | No     |
| Body SAR tests, Near to Mouth SAR, Test distance: 10mm |       |      |            |           |          |        |
| Antennas                                               | Front | Back | Right Side | Left Side | Top Side | Bottom |
| WWAN                                                   | Yes   | No   | No         | No        | No       | No     |

*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                             | <b>32.89</b> | 32.84 | 32.53 | 33.0                      | 28.88   | 29.19        | <b>29.36</b> | 29.5                      |
| GPRS (1 slot)                   | 32.91        | 32.87 | 32.53 | 33.0                      | 28.66   | 29.55        | 29.19        | 30.0                      |
| GPRS (2 slots)                  | 32.89        | 32.82 | 32.51 | 33.0                      | 27.66   | 27.94        | 28.21        | 28.5                      |
| GPRS (3 slots)                  | <b>31.96</b> | 31.91 | 31.55 | 32.0                      | 26.11   | <b>26.48</b> | 26.35        | 26.5                      |
| GPRS (4 slots)                  | 29.57        | 29.41 | 29.18 | 30.0                      | 24.61   | 24.87        | 25.17        | 25.5                      |

| 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                                         | 23.89        | 23.84 | 23.53 | 24.0                      | 19.88   | 20.19        | 20.36  | 20.5                      |
| GPRS (1 slot)                               | 23.91        | 23.87 | 23.53 | 24.0                      | 19.66   | 20.55        | 20.19  | 21.0                      |
| GPRS (2 slots)                              | 26.89        | 26.82 | 26.51 | 27.0                      | 21.66   | 21.94        | 22.21  | 22.5                      |
| GPRS (3 slots)                              | <b>27.71</b> | 27.66 | 27.30 | 28.0                      | 21.86   | <b>22.23</b> | 22.10  | 22.5                      |
| GPRS (4 slots)                              | 26.57        | 26.41 | 26.18 | 27.0                      | 21.61   | 21.87        | 22.17  | 22.5                      |

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 Near to Mouth SAR testing, GSM should be evaluated; therefore the EUT was set in GSM for GSM850 and GSM1900 due to its highest source-based time-average power.
2. For Wrist-worn SAR testing, GPRS should be evaluated; therefore the EUT was set in GPRS (4TX slots) for GSM850 and GPRS (4TX slots) for GSM1900 due to its highest source-based time-average power.
3. Per KDB 447498 D01 v06, the maximum output power channel is used for SAR testing and for further SAR test reduction.
4. The DUT do not support DTM function.

| Band  | Bandwidth | Modulation | Channel | RB Configuration | Result(dBm) | Verdict |
|-------|-----------|------------|---------|------------------|-------------|---------|
| Band2 | 1.4MHz    | QPSK       | 18607   | 1RB#0            | 23.96       | PASS    |
| Band2 | 1.4MHz    | QPSK       | 18607   | 1RB#2            | 23.95       | PASS    |
| Band2 | 1.4MHz    | QPSK       | 18607   | 1RB#5            | 23.93       | PASS    |
| Band2 | 1.4MHz    | QPSK       | 18607   | 3RB#0            | 23.96       | PASS    |
| Band2 | 1.4MHz    | QPSK       | 18607   | 3RB#1            | 23.96       | PASS    |
| Band2 | 1.4MHz    | QPSK       | 18607   | 3RB#3            | 23.95       | PASS    |
| Band2 | 1.4MHz    | QPSK       | 18607   | 6RB#0            | 23.00       | PASS    |
| Band2 | 1.4MHz    | QPSK       | 18900   | 1RB#0            | 23.81       | PASS    |
| Band2 | 1.4MHz    | QPSK       | 18900   | 1RB#2            | 23.75       | PASS    |
| Band2 | 1.4MHz    | QPSK       | 18900   | 1RB#5            | 23.70       | PASS    |
| Band2 | 1.4MHz    | QPSK       | 18900   | 3RB#0            | 23.78       | PASS    |
| Band2 | 1.4MHz    | QPSK       | 18900   | 3RB#1            | 23.80       | PASS    |
| Band2 | 1.4MHz    | QPSK       | 18900   | 3RB#3            | 23.75       | PASS    |
| Band2 | 1.4MHz    | QPSK       | 18900   | 6RB#0            | 22.81       | PASS    |
| Band2 | 1.4MHz    | QPSK       | 19193   | 1RB#0            | 23.95       | PASS    |
| Band2 | 1.4MHz    | QPSK       | 19193   | 1RB#2            | 23.96       | PASS    |
| Band2 | 1.4MHz    | QPSK       | 19193   | 1RB#5            | 23.90       | PASS    |
| Band2 | 1.4MHz    | QPSK       | 19193   | 3RB#0            | 24.04       | PASS    |
| Band2 | 1.4MHz    | QPSK       | 19193   | 3RB#1            | 24.03       | PASS    |
| Band2 | 1.4MHz    | QPSK       | 19193   | 3RB#3            | 24.01       | PASS    |
| Band2 | 1.4MHz    | QPSK       | 19193   | 6RB#0            | 23.09       | PASS    |
| Band2 | 1.4MHz    | 16QAM      | 18607   | 1RB#0            | 22.87       | PASS    |
| Band2 | 1.4MHz    | 16QAM      | 18607   | 1RB#2            | 22.90       | PASS    |
| Band2 | 1.4MHz    | 16QAM      | 18607   | 1RB#5            | 22.83       | PASS    |
| Band2 | 1.4MHz    | 16QAM      | 18607   | 3RB#0            | 22.80       | PASS    |
| Band2 | 1.4MHz    | 16QAM      | 18607   | 3RB#1            | 22.79       | PASS    |
| Band2 | 1.4MHz    | 16QAM      | 18607   | 3RB#3            | 22.78       | PASS    |
| Band2 | 1.4MHz    | 16QAM      | 18607   | 6RB#0            | 21.97       | PASS    |
| Band2 | 1.4MHz    | 16QAM      | 18900   | 1RB#0            | 22.69       | PASS    |
| Band2 | 1.4MHz    | 16QAM      | 18900   | 1RB#2            | 22.71       | PASS    |
| Band2 | 1.4MHz    | 16QAM      | 18900   | 1RB#5            | 22.63       | PASS    |
| Band2 | 1.4MHz    | 16QAM      | 18900   | 3RB#0            | 22.62       | PASS    |
| Band2 | 1.4MHz    | 16QAM      | 18900   | 3RB#1            | 22.65       | PASS    |
| Band2 | 1.4MHz    | 16QAM      | 18900   | 3RB#3            | 22.60       | PASS    |
| Band2 | 1.4MHz    | 16QAM      | 18900   | 6RB#0            | 21.80       | PASS    |

|       |        |       |       |        |       |      |
|-------|--------|-------|-------|--------|-------|------|
| Band2 | 1.4MHz | 16QAM | 19193 | 1RB#0  | 22.87 | PASS |
| Band2 | 1.4MHz | 16QAM | 19193 | 1RB#2  | 22.94 | PASS |
| Band2 | 1.4MHz | 16QAM | 19193 | 1RB#5  | 22.84 | PASS |
| Band2 | 1.4MHz | 16QAM | 19193 | 3RB#0  | 22.91 | PASS |
| Band2 | 1.4MHz | 16QAM | 19193 | 3RB#1  | 22.91 | PASS |
| Band2 | 1.4MHz | 16QAM | 19193 | 3RB#3  | 22.88 | PASS |
| Band2 | 1.4MHz | 16QAM | 19193 | 6RB#0  | 22.10 | PASS |
| Band2 | 3MHz   | QPSK  | 18615 | 1RB#0  | 24.11 | PASS |
| Band2 | 3MHz   | QPSK  | 18615 | 1RB#8  | 24.14 | PASS |
| Band2 | 3MHz   | QPSK  | 18615 | 1RB#14 | 24.13 | PASS |
| Band2 | 3MHz   | QPSK  | 18615 | 8RB#0  | 22.98 | PASS |
| Band2 | 3MHz   | QPSK  | 18615 | 8RB#4  | 22.98 | PASS |
| Band2 | 3MHz   | QPSK  | 18615 | 8RB#7  | 23.05 | PASS |
| Band2 | 3MHz   | QPSK  | 18615 | 15RB#0 | 23.05 | PASS |
| Band2 | 3MHz   | QPSK  | 18900 | 1RB#0  | 23.87 | PASS |
| Band2 | 3MHz   | QPSK  | 18900 | 1RB#8  | 23.87 | PASS |
| Band2 | 3MHz   | QPSK  | 18900 | 1RB#14 | 23.81 | PASS |
| Band2 | 3MHz   | QPSK  | 18900 | 8RB#0  | 22.84 | PASS |
| Band2 | 3MHz   | QPSK  | 18900 | 8RB#4  | 22.80 | PASS |
| Band2 | 3MHz   | QPSK  | 18900 | 8RB#7  | 22.78 | PASS |
| Band2 | 3MHz   | QPSK  | 18900 | 15RB#0 | 22.78 | PASS |
| Band2 | 3MHz   | QPSK  | 19185 | 1RB#0  | 23.98 | PASS |
| Band2 | 3MHz   | QPSK  | 19185 | 1RB#8  | 23.97 | PASS |
| Band2 | 3MHz   | QPSK  | 19185 | 1RB#14 | 23.92 | PASS |
| Band2 | 3MHz   | QPSK  | 19185 | 8RB#0  | 23.15 | PASS |
| Band2 | 3MHz   | QPSK  | 19185 | 8RB#4  | 23.13 | PASS |
| Band2 | 3MHz   | QPSK  | 19185 | 8RB#7  | 23.08 | PASS |
| Band2 | 3MHz   | QPSK  | 19185 | 15RB#0 | 23.10 | PASS |
| Band2 | 3MHz   | 16QAM | 18615 | 1RB#0  | 23.10 | PASS |
| Band2 | 3MHz   | 16QAM | 18615 | 1RB#8  | 23.15 | PASS |
| Band2 | 3MHz   | 16QAM | 18615 | 1RB#14 | 23.13 | PASS |
| Band2 | 3MHz   | 16QAM | 18615 | 8RB#0  | 22.02 | PASS |
| Band2 | 3MHz   | 16QAM | 18615 | 8RB#4  | 22.02 | PASS |
| Band2 | 3MHz   | 16QAM | 18615 | 8RB#7  | 22.08 | PASS |
| Band2 | 3MHz   | 16QAM | 18615 | 15RB#0 | 22.06 | PASS |
| Band2 | 3MHz   | 16QAM | 18900 | 1RB#0  | 22.77 | PASS |
| Band2 | 3MHz   | 16QAM | 18900 | 1RB#8  | 22.68 | PASS |

|       |      |       |       |         |       |      |
|-------|------|-------|-------|---------|-------|------|
| Band2 | 3MHz | 16QAM | 18900 | 1RB#14  | 22.63 | PASS |
| Band2 | 3MHz | 16QAM | 18900 | 8RB#0   | 21.77 | PASS |
| Band2 | 3MHz | 16QAM | 18900 | 8RB#4   | 21.77 | PASS |
| Band2 | 3MHz | 16QAM | 18900 | 8RB#7   | 21.74 | PASS |
| Band2 | 3MHz | 16QAM | 18900 | 15RB#0  | 21.72 | PASS |
| Band2 | 3MHz | 16QAM | 19185 | 1RB#0   | 22.83 | PASS |
| Band2 | 3MHz | 16QAM | 19185 | 1RB#8   | 22.84 | PASS |
| Band2 | 3MHz | 16QAM | 19185 | 1RB#14  | 22.80 | PASS |
| Band2 | 3MHz | 16QAM | 19185 | 8RB#0   | 22.13 | PASS |
| Band2 | 3MHz | 16QAM | 19185 | 8RB#4   | 22.14 | PASS |
| Band2 | 3MHz | 16QAM | 19185 | 8RB#7   | 22.11 | PASS |
| Band2 | 3MHz | 16QAM | 19185 | 15RB#0  | 22.00 | PASS |
| Band2 | 5MHz | QPSK  | 18625 | 1RB#0   | 24.27 | PASS |
| Band2 | 5MHz | QPSK  | 18625 | 1RB#12  | 24.29 | PASS |
| Band2 | 5MHz | QPSK  | 18625 | 1RB#24  | 24.38 | PASS |
| Band2 | 5MHz | QPSK  | 18625 | 12RB#0  | 23.07 | PASS |
| Band2 | 5MHz | QPSK  | 18625 | 12RB#6  | 23.05 | PASS |
| Band2 | 5MHz | QPSK  | 18625 | 12RB#13 | 23.12 | PASS |
| Band2 | 5MHz | QPSK  | 18625 | 25RB#0  | 23.08 | PASS |
| Band2 | 5MHz | QPSK  | 18900 | 1RB#0   | 24.04 | PASS |
| Band2 | 5MHz | QPSK  | 18900 | 1RB#12  | 23.94 | PASS |
| Band2 | 5MHz | QPSK  | 18900 | 1RB#24  | 23.93 | PASS |
| Band2 | 5MHz | QPSK  | 18900 | 12RB#0  | 22.91 | PASS |
| Band2 | 5MHz | QPSK  | 18900 | 12RB#6  | 22.86 | PASS |
| Band2 | 5MHz | QPSK  | 18900 | 12RB#13 | 22.86 | PASS |
| Band2 | 5MHz | QPSK  | 18900 | 25RB#0  | 22.88 | PASS |
| Band2 | 5MHz | QPSK  | 19175 | 1RB#0   | 24.39 | PASS |
| Band2 | 5MHz | QPSK  | 19175 | 1RB#12  | 24.32 | PASS |
| Band2 | 5MHz | QPSK  | 19175 | 1RB#24  | 24.28 | PASS |
| Band2 | 5MHz | QPSK  | 19175 | 12RB#0  | 23.22 | PASS |
| Band2 | 5MHz | QPSK  | 19175 | 12RB#6  | 23.25 | PASS |
| Band2 | 5MHz | QPSK  | 19175 | 12RB#13 | 23.12 | PASS |
| Band2 | 5MHz | QPSK  | 19175 | 25RB#0  | 23.20 | PASS |
| Band2 | 5MHz | 16QAM | 18625 | 1RB#0   | 23.05 | PASS |
| Band2 | 5MHz | 16QAM | 18625 | 1RB#12  | 23.07 | PASS |
| Band2 | 5MHz | 16QAM | 18625 | 1RB#24  | 23.14 | PASS |
| Band2 | 5MHz | 16QAM | 18625 | 12RB#0  | 22.07 | PASS |

|       |       |       |       |         |       |      |
|-------|-------|-------|-------|---------|-------|------|
| Band2 | 5MHz  | 16QAM | 18625 | 12RB#6  | 22.05 | PASS |
| Band2 | 5MHz  | 16QAM | 18625 | 12RB#13 | 22.09 | PASS |
| Band2 | 5MHz  | 16QAM | 18625 | 25RB#0  | 22.08 | PASS |
| Band2 | 5MHz  | 16QAM | 18900 | 1RB#0   | 22.99 | PASS |
| Band2 | 5MHz  | 16QAM | 18900 | 1RB#12  | 22.93 | PASS |
| Band2 | 5MHz  | 16QAM | 18900 | 1RB#24  | 22.92 | PASS |
| Band2 | 5MHz  | 16QAM | 18900 | 12RB#0  | 21.90 | PASS |
| Band2 | 5MHz  | 16QAM | 18900 | 12RB#6  | 21.89 | PASS |
| Band2 | 5MHz  | 16QAM | 18900 | 12RB#13 | 21.84 | PASS |
| Band2 | 5MHz  | 16QAM | 18900 | 25RB#0  | 21.87 | PASS |
| Band2 | 5MHz  | 16QAM | 19175 | 1RB#0   | 23.17 | PASS |
| Band2 | 5MHz  | 16QAM | 19175 | 1RB#12  | 23.09 | PASS |
| Band2 | 5MHz  | 16QAM | 19175 | 1RB#24  | 23.07 | PASS |
| Band2 | 5MHz  | 16QAM | 19175 | 12RB#0  | 22.25 | PASS |
| Band2 | 5MHz  | 16QAM | 19175 | 12RB#6  | 22.24 | PASS |
| Band2 | 5MHz  | 16QAM | 19175 | 12RB#13 | 22.11 | PASS |
| Band2 | 5MHz  | 16QAM | 19175 | 25RB#0  | 22.19 | PASS |
| Band2 | 10MHz | QPSK  | 18650 | 1RB#0   | 24.16 | PASS |
| Band2 | 10MHz | QPSK  | 18650 | 1RB#24  | 24.34 | PASS |
| Band2 | 10MHz | QPSK  | 18650 | 1RB#49  | 24.42 | PASS |
| Band2 | 10MHz | QPSK  | 18650 | 25RB#0  | 23.11 | PASS |
| Band2 | 10MHz | QPSK  | 18650 | 25RB#12 | 23.10 | PASS |
| Band2 | 10MHz | QPSK  | 18650 | 25RB#25 | 23.25 | PASS |
| Band2 | 10MHz | QPSK  | 18650 | 50RB#0  | 23.16 | PASS |
| Band2 | 10MHz | QPSK  | 18900 | 1RB#0   | 24.04 | PASS |
| Band2 | 10MHz | QPSK  | 18900 | 1RB#24  | 23.87 | PASS |
| Band2 | 10MHz | QPSK  | 18900 | 1RB#49  | 23.80 | PASS |
| Band2 | 10MHz | QPSK  | 18900 | 25RB#0  | 22.81 | PASS |
| Band2 | 10MHz | QPSK  | 18900 | 25RB#12 | 22.84 | PASS |
| Band2 | 10MHz | QPSK  | 18900 | 25RB#25 | 22.85 | PASS |
| Band2 | 10MHz | QPSK  | 18900 | 50RB#0  | 22.86 | PASS |
| Band2 | 10MHz | QPSK  | 19150 | 1RB#0   | 24.15 | PASS |
| Band2 | 10MHz | QPSK  | 19150 | 1RB#24  | 24.16 | PASS |
| Band2 | 10MHz | QPSK  | 19150 | 1RB#49  | 23.98 | PASS |
| Band2 | 10MHz | QPSK  | 19150 | 25RB#0  | 23.27 | PASS |
| Band2 | 10MHz | QPSK  | 19150 | 25RB#12 | 23.28 | PASS |
| Band2 | 10MHz | QPSK  | 19150 | 25RB#25 | 23.17 | PASS |

|       |       |       |       |         |       |      |
|-------|-------|-------|-------|---------|-------|------|
| Band2 | 10MHz | QPSK  | 19150 | 50RB#0  | 23.29 | PASS |
| Band2 | 10MHz | 16QAM | 18650 | 1RB#0   | 23.14 | PASS |
| Band2 | 10MHz | 16QAM | 18650 | 1RB#24  | 23.28 | PASS |
| Band2 | 10MHz | 16QAM | 18650 | 1RB#49  | 23.42 | PASS |
| Band2 | 10MHz | 16QAM | 18650 | 25RB#0  | 22.07 | PASS |
| Band2 | 10MHz | 16QAM | 18650 | 25RB#12 | 22.08 | PASS |
| Band2 | 10MHz | 16QAM | 18650 | 25RB#25 | 22.23 | PASS |
| Band2 | 10MHz | 16QAM | 18650 | 50RB#0  | 22.16 | PASS |
| Band2 | 10MHz | 16QAM | 18900 | 1RB#0   | 22.88 | PASS |
| Band2 | 10MHz | 16QAM | 18900 | 1RB#24  | 22.74 | PASS |
| Band2 | 10MHz | 16QAM | 18900 | 1RB#49  | 22.64 | PASS |
| Band2 | 10MHz | 16QAM | 18900 | 25RB#0  | 21.85 | PASS |
| Band2 | 10MHz | 16QAM | 18900 | 25RB#12 | 21.84 | PASS |
| Band2 | 10MHz | 16QAM | 18900 | 25RB#25 | 21.86 | PASS |
| Band2 | 10MHz | 16QAM | 18900 | 50RB#0  | 21.86 | PASS |
| Band2 | 10MHz | 16QAM | 19150 | 1RB#0   | 22.95 | PASS |
| Band2 | 10MHz | 16QAM | 19150 | 1RB#24  | 22.94 | PASS |
| Band2 | 10MHz | 16QAM | 19150 | 1RB#49  | 22.81 | PASS |
| Band2 | 10MHz | 16QAM | 19150 | 25RB#0  | 22.33 | PASS |
| Band2 | 10MHz | 16QAM | 19150 | 25RB#12 | 22.30 | PASS |
| Band2 | 10MHz | 16QAM | 19150 | 25RB#25 | 22.19 | PASS |
| Band2 | 10MHz | 16QAM | 19150 | 50RB#0  | 22.25 | PASS |
| Band2 | 15MHz | QPSK  | 18675 | 1RB#0   | 24.12 | PASS |
| Band2 | 15MHz | QPSK  | 18675 | 1RB#38  | 24.37 | PASS |
| Band2 | 15MHz | QPSK  | 18675 | 1RB#74  | 24.37 | PASS |
| Band2 | 15MHz | QPSK  | 18675 | 38RB#0  | 23.11 | PASS |
| Band2 | 15MHz | QPSK  | 18675 | 38RB#18 | 23.39 | PASS |
| Band2 | 15MHz | QPSK  | 18675 | 38RB#37 | 23.37 | PASS |
| Band2 | 15MHz | QPSK  | 18675 | 75RB#0  | 23.19 | PASS |
| Band2 | 15MHz | QPSK  | 18900 | 1RB#0   | 23.90 | PASS |
| Band2 | 15MHz | QPSK  | 18900 | 1RB#38  | 23.77 | PASS |
| Band2 | 15MHz | QPSK  | 18900 | 1RB#74  | 23.63 | PASS |
| Band2 | 15MHz | QPSK  | 18900 | 38RB#0  | 23.04 | PASS |
| Band2 | 15MHz | QPSK  | 18900 | 38RB#18 | 22.90 | PASS |
| Band2 | 15MHz | QPSK  | 18900 | 38RB#37 | 22.83 | PASS |
| Band2 | 15MHz | QPSK  | 18900 | 75RB#0  | 22.84 | PASS |
| Band2 | 15MHz | QPSK  | 19125 | 1RB#0   | 24.00 | PASS |

|       |       |       |       |         |              |      |
|-------|-------|-------|-------|---------|--------------|------|
| Band2 | 15MHz | QPSK  | 19125 | 1RB#38  | 24.19        | PASS |
| Band2 | 15MHz | QPSK  | 19125 | 1RB#74  | 23.91        | PASS |
| Band2 | 15MHz | QPSK  | 19125 | 38RB#0  | 22.87        | PASS |
| Band2 | 15MHz | QPSK  | 19125 | 38RB#18 | 23.02        | PASS |
| Band2 | 15MHz | QPSK  | 19125 | 38RB#37 | 22.76        | PASS |
| Band2 | 15MHz | QPSK  | 19125 | 75RB#0  | 23.19        | PASS |
| Band2 | 15MHz | 16QAM | 18675 | 1RB#0   | 23.13        | PASS |
| Band2 | 15MHz | 16QAM | 18675 | 1RB#38  | 23.39        | PASS |
| Band2 | 15MHz | 16QAM | 18675 | 1RB#74  | 23.36        | PASS |
| Band2 | 15MHz | 16QAM | 18675 | 38RB#0  | 23.11        | PASS |
| Band2 | 15MHz | 16QAM | 18675 | 38RB#18 | 23.39        | PASS |
| Band2 | 15MHz | 16QAM | 18675 | 38RB#37 | 23.37        | PASS |
| Band2 | 15MHz | 16QAM | 18675 | 75RB#0  | 22.14        | PASS |
| Band2 | 15MHz | 16QAM | 18900 | 1RB#0   | 23.04        | PASS |
| Band2 | 15MHz | 16QAM | 18900 | 1RB#38  | 22.92        | PASS |
| Band2 | 15MHz | 16QAM | 18900 | 1RB#74  | 22.82        | PASS |
| Band2 | 15MHz | 16QAM | 18900 | 38RB#0  | 23.04        | PASS |
| Band2 | 15MHz | 16QAM | 18900 | 38RB#18 | 22.89        | PASS |
| Band2 | 15MHz | 16QAM | 18900 | 38RB#37 | 22.81        | PASS |
| Band2 | 15MHz | 16QAM | 18900 | 75RB#0  | 21.84        | PASS |
| Band2 | 15MHz | 16QAM | 19125 | 1RB#0   | 22.86        | PASS |
| Band2 | 15MHz | 16QAM | 19125 | 1RB#38  | 23.00        | PASS |
| Band2 | 15MHz | 16QAM | 19125 | 1RB#74  | 22.72        | PASS |
| Band2 | 15MHz | 16QAM | 19125 | 38RB#0  | 22.85        | PASS |
| Band2 | 15MHz | 16QAM | 19125 | 38RB#18 | 23.02        | PASS |
| Band2 | 15MHz | 16QAM | 19125 | 38RB#37 | 22.74        | PASS |
| Band2 | 15MHz | 16QAM | 19125 | 75RB#0  | 22.22        | PASS |
| Band2 | 20MHz | QPSK  | 18700 | 1RB#0   | 24.15        | PASS |
| Band2 | 20MHz | QPSK  | 18700 | 1RB#49  | <b>24.51</b> | PASS |
| Band2 | 20MHz | QPSK  | 18700 | 1RB#99  | 24.23        | PASS |
| Band2 | 20MHz | QPSK  | 18700 | 50RB#0  | 23.23        | PASS |
| Band2 | 20MHz | QPSK  | 18700 | 50RB#25 | 23.23        | PASS |
| Band2 | 20MHz | QPSK  | 18700 | 50RB#50 | 23.31        | PASS |
| Band2 | 20MHz | QPSK  | 18700 | 100RB#0 | 23.24        | PASS |
| Band2 | 20MHz | QPSK  | 18900 | 1RB#0   | 24.11        | PASS |
| Band2 | 20MHz | QPSK  | 18900 | 1RB#49  | 23.87        | PASS |
| Band2 | 20MHz | QPSK  | 18900 | 1RB#99  | 23.78        | PASS |

|       |       |       |       |         |       |      |
|-------|-------|-------|-------|---------|-------|------|
| Band2 | 20MHz | QPSK  | 18900 | 50RB#0  | 22.97 | PASS |
| Band2 | 20MHz | QPSK  | 18900 | 50RB#25 | 22.97 | PASS |
| Band2 | 20MHz | QPSK  | 18900 | 50RB#50 | 22.84 | PASS |
| Band2 | 20MHz | QPSK  | 18900 | 100RB#0 | 22.89 | PASS |
| Band2 | 20MHz | QPSK  | 19100 | 1RB#0   | 23.82 | PASS |
| Band2 | 20MHz | QPSK  | 19100 | 1RB#49  | 24.17 | PASS |
| Band2 | 20MHz | QPSK  | 19100 | 1RB#99  | 23.93 | PASS |
| Band2 | 20MHz | QPSK  | 19100 | 50RB#0  | 23.22 | PASS |
| Band2 | 20MHz | QPSK  | 19100 | 50RB#25 | 23.19 | PASS |
| Band2 | 20MHz | QPSK  | 19100 | 50RB#50 | 23.23 | PASS |
| Band2 | 20MHz | QPSK  | 19100 | 100RB#0 | 23.16 | PASS |
| Band2 | 20MHz | 16QAM | 18700 | 1RB#0   | 22.94 | PASS |
| Band2 | 20MHz | 16QAM | 18700 | 1RB#49  | 23.31 | PASS |
| Band2 | 20MHz | 16QAM | 18700 | 1RB#99  | 23.04 | PASS |
| Band2 | 20MHz | 16QAM | 18700 | 50RB#0  | 22.19 | PASS |
| Band2 | 20MHz | 16QAM | 18700 | 50RB#25 | 22.16 | PASS |
| Band2 | 20MHz | 16QAM | 18700 | 50RB#50 | 22.26 | PASS |
| Band2 | 20MHz | 16QAM | 18700 | 100RB#0 | 22.22 | PASS |
| Band2 | 20MHz | 16QAM | 18900 | 1RB#0   | 23.37 | PASS |
| Band2 | 20MHz | 16QAM | 18900 | 1RB#49  | 23.12 | PASS |
| Band2 | 20MHz | 16QAM | 18900 | 1RB#99  | 23.05 | PASS |
| Band2 | 20MHz | 16QAM | 18900 | 50RB#0  | 21.91 | PASS |
| Band2 | 20MHz | 16QAM | 18900 | 50RB#25 | 21.91 | PASS |
| Band2 | 20MHz | 16QAM | 18900 | 50RB#50 | 21.87 | PASS |
| Band2 | 20MHz | 16QAM | 18900 | 100RB#0 | 21.83 | PASS |
| Band2 | 20MHz | 16QAM | 19100 | 1RB#0   | 22.78 | PASS |
| Band2 | 20MHz | 16QAM | 19100 | 1RB#49  | 23.12 | PASS |
| Band2 | 20MHz | 16QAM | 19100 | 1RB#99  | 22.85 | PASS |
| Band2 | 20MHz | 16QAM | 19100 | 50RB#0  | 22.26 | PASS |
| Band2 | 20MHz | 16QAM | 19100 | 50RB#25 | 22.23 | PASS |
| Band2 | 20MHz | 16QAM | 19100 | 50RB#50 | 22.21 | PASS |
| Band2 | 20MHz | 16QAM | 19100 | 100RB#0 | 22.19 | PASS |

| Band  | Bandwidth | Modulation | Channel | RB Configuration | Result(dBm) | Verdict |
|-------|-----------|------------|---------|------------------|-------------|---------|
| Band4 | 1.4MHz    | QPSK       | 19957   | 1RB#0            | 24.29       | PASS    |
| Band4 | 1.4MHz    | QPSK       | 19957   | 1RB#2            | 24.32       | PASS    |
| Band4 | 1.4MHz    | QPSK       | 19957   | 1RB#5            | 24.35       | PASS    |
| Band4 | 1.4MHz    | QPSK       | 19957   | 3RB#0            | 24.40       | PASS    |
| Band4 | 1.4MHz    | QPSK       | 19957   | 3RB#1            | 24.39       | PASS    |
| Band4 | 1.4MHz    | QPSK       | 19957   | 3RB#3            | 24.39       | PASS    |
| Band4 | 1.4MHz    | QPSK       | 19957   | 6RB#0            | 23.44       | PASS    |
| Band4 | 1.4MHz    | QPSK       | 20175   | 1RB#0            | 24.14       | PASS    |
| Band4 | 1.4MHz    | QPSK       | 20175   | 1RB#2            | 24.14       | PASS    |
| Band4 | 1.4MHz    | QPSK       | 20175   | 1RB#5            | 24.11       | PASS    |
| Band4 | 1.4MHz    | QPSK       | 20175   | 3RB#0            | 24.13       | PASS    |
| Band4 | 1.4MHz    | QPSK       | 20175   | 3RB#1            | 24.14       | PASS    |
| Band4 | 1.4MHz    | QPSK       | 20175   | 3RB#3            | 24.15       | PASS    |
| Band4 | 1.4MHz    | QPSK       | 20175   | 6RB#0            | 23.09       | PASS    |
| Band4 | 1.4MHz    | QPSK       | 20393   | 1RB#0            | 24.71       | PASS    |
| Band4 | 1.4MHz    | QPSK       | 20393   | 1RB#2            | 24.68       | PASS    |
| Band4 | 1.4MHz    | QPSK       | 20393   | 1RB#5            | 24.67       | PASS    |
| Band4 | 1.4MHz    | QPSK       | 20393   | 3RB#0            | 24.77       | PASS    |
| Band4 | 1.4MHz    | QPSK       | 20393   | 3RB#1            | 24.76       | PASS    |
| Band4 | 1.4MHz    | QPSK       | 20393   | 3RB#3            | 24.71       | PASS    |
| Band4 | 1.4MHz    | QPSK       | 20393   | 6RB#0            | 23.77       | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 19957   | 1RB#0            | 23.28       | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 19957   | 1RB#2            | 23.33       | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 19957   | 1RB#5            | 23.26       | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 19957   | 3RB#0            | 23.23       | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 19957   | 3RB#1            | 23.21       | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 19957   | 3RB#3            | 23.23       | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 19957   | 6RB#0            | 22.39       | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 20175   | 1RB#0            | 23.02       | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 20175   | 1RB#2            | 23.03       | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 20175   | 1RB#5            | 23.02       | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 20175   | 3RB#0            | 22.94       | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 20175   | 3RB#1            | 22.92       | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 20175   | 3RB#3            | 22.92       | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 20175   | 6RB#0            | 21.93       | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 20393   | 1RB#0            | 23.67       | PASS    |

|       |        |       |       |        |       |      |
|-------|--------|-------|-------|--------|-------|------|
| Band4 | 1.4MHz | 16QAM | 20393 | 1RB#2  | 23.67 | PASS |
| Band4 | 1.4MHz | 16QAM | 20393 | 1RB#5  | 23.60 | PASS |
| Band4 | 1.4MHz | 16QAM | 20393 | 3RB#0  | 23.60 | PASS |
| Band4 | 1.4MHz | 16QAM | 20393 | 3RB#1  | 23.62 | PASS |
| Band4 | 1.4MHz | 16QAM | 20393 | 3RB#3  | 23.56 | PASS |
| Band4 | 1.4MHz | 16QAM | 20393 | 6RB#0  | 22.77 | PASS |
| Band4 | 3MHz   | QPSK  | 19965 | 1RB#0  | 24.49 | PASS |
| Band4 | 3MHz   | QPSK  | 19965 | 1RB#8  | 24.55 | PASS |
| Band4 | 3MHz   | QPSK  | 19965 | 1RB#14 | 24.59 | PASS |
| Band4 | 3MHz   | QPSK  | 19965 | 8RB#0  | 23.41 | PASS |
| Band4 | 3MHz   | QPSK  | 19965 | 8RB#4  | 23.43 | PASS |
| Band4 | 3MHz   | QPSK  | 19965 | 8RB#7  | 23.46 | PASS |
| Band4 | 3MHz   | QPSK  | 19965 | 15RB#0 | 23.44 | PASS |
| Band4 | 3MHz   | QPSK  | 20175 | 1RB#0  | 24.17 | PASS |
| Band4 | 3MHz   | QPSK  | 20175 | 1RB#8  | 24.15 | PASS |
| Band4 | 3MHz   | QPSK  | 20175 | 1RB#14 | 24.11 | PASS |
| Band4 | 3MHz   | QPSK  | 20175 | 8RB#0  | 23.11 | PASS |
| Band4 | 3MHz   | QPSK  | 20175 | 8RB#4  | 23.12 | PASS |
| Band4 | 3MHz   | QPSK  | 20175 | 8RB#7  | 23.06 | PASS |
| Band4 | 3MHz   | QPSK  | 20175 | 15RB#0 | 23.08 | PASS |
| Band4 | 3MHz   | QPSK  | 20385 | 1RB#0  | 24.87 | PASS |
| Band4 | 3MHz   | QPSK  | 20385 | 1RB#8  | 24.88 | PASS |
| Band4 | 3MHz   | QPSK  | 20385 | 1RB#14 | 24.85 | PASS |
| Band4 | 3MHz   | QPSK  | 20385 | 8RB#0  | 23.81 | PASS |
| Band4 | 3MHz   | QPSK  | 20385 | 8RB#4  | 23.82 | PASS |
| Band4 | 3MHz   | QPSK  | 20385 | 8RB#7  | 23.76 | PASS |
| Band4 | 3MHz   | QPSK  | 20385 | 15RB#0 | 23.77 | PASS |
| Band4 | 3MHz   | 16QAM | 19965 | 1RB#0  | 23.50 | PASS |
| Band4 | 3MHz   | 16QAM | 19965 | 1RB#8  | 23.54 | PASS |
| Band4 | 3MHz   | 16QAM | 19965 | 1RB#14 | 23.60 | PASS |
| Band4 | 3MHz   | 16QAM | 19965 | 8RB#0  | 22.46 | PASS |
| Band4 | 3MHz   | 16QAM | 19965 | 8RB#4  | 22.45 | PASS |
| Band4 | 3MHz   | 16QAM | 19965 | 8RB#7  | 22.48 | PASS |
| Band4 | 3MHz   | 16QAM | 19965 | 15RB#0 | 22.45 | PASS |
| Band4 | 3MHz   | 16QAM | 20175 | 1RB#0  | 23.09 | PASS |
| Band4 | 3MHz   | 16QAM | 20175 | 1RB#8  | 22.99 | PASS |
| Band4 | 3MHz   | 16QAM | 20175 | 1RB#14 | 22.98 | PASS |

|       |      |       |       |         |       |      |
|-------|------|-------|-------|---------|-------|------|
| Band4 | 3MHz | 16QAM | 20175 | 8RB#0   | 22.06 | PASS |
| Band4 | 3MHz | 16QAM | 20175 | 8RB#4   | 22.04 | PASS |
| Band4 | 3MHz | 16QAM | 20175 | 8RB#7   | 22.04 | PASS |
| Band4 | 3MHz | 16QAM | 20175 | 15RB#0  | 22.02 | PASS |
| Band4 | 3MHz | 16QAM | 20385 | 1RB#0   | 23.84 | PASS |
| Band4 | 3MHz | 16QAM | 20385 | 1RB#8   | 23.85 | PASS |
| Band4 | 3MHz | 16QAM | 20385 | 1RB#14  | 23.84 | PASS |
| Band4 | 3MHz | 16QAM | 20385 | 8RB#0   | 22.85 | PASS |
| Band4 | 3MHz | 16QAM | 20385 | 8RB#4   | 22.84 | PASS |
| Band4 | 3MHz | 16QAM | 20385 | 8RB#7   | 22.78 | PASS |
| Band4 | 3MHz | 16QAM | 20385 | 15RB#0  | 22.82 | PASS |
| Band4 | 5MHz | QPSK  | 19975 | 1RB#0   | 24.64 | PASS |
| Band4 | 5MHz | QPSK  | 19975 | 1RB#12  | 24.74 | PASS |
| Band4 | 5MHz | QPSK  | 19975 | 1RB#24  | 24.78 | PASS |
| Band4 | 5MHz | QPSK  | 19975 | 12RB#0  | 23.47 | PASS |
| Band4 | 5MHz | QPSK  | 19975 | 12RB#6  | 23.47 | PASS |
| Band4 | 5MHz | QPSK  | 19975 | 12RB#13 | 23.51 | PASS |
| Band4 | 5MHz | QPSK  | 19975 | 25RB#0  | 23.49 | PASS |
| Band4 | 5MHz | QPSK  | 20175 | 1RB#0   | 24.22 | PASS |
| Band4 | 5MHz | QPSK  | 20175 | 1RB#12  | 24.20 | PASS |
| Band4 | 5MHz | QPSK  | 20175 | 1RB#24  | 24.18 | PASS |
| Band4 | 5MHz | QPSK  | 20175 | 12RB#0  | 23.12 | PASS |
| Band4 | 5MHz | QPSK  | 20175 | 12RB#6  | 23.11 | PASS |
| Band4 | 5MHz | QPSK  | 20175 | 12RB#13 | 23.09 | PASS |
| Band4 | 5MHz | QPSK  | 20175 | 25RB#0  | 23.12 | PASS |
| Band4 | 5MHz | QPSK  | 20375 | 1RB#0   | 25.00 | PASS |
| Band4 | 5MHz | QPSK  | 20375 | 1RB#12  | 25.00 | PASS |
| Band4 | 5MHz | QPSK  | 20375 | 1RB#24  | 24.99 | PASS |
| Band4 | 5MHz | QPSK  | 20375 | 12RB#0  | 23.82 | PASS |
| Band4 | 5MHz | QPSK  | 20375 | 12RB#6  | 23.82 | PASS |
| Band4 | 5MHz | QPSK  | 20375 | 12RB#13 | 23.78 | PASS |
| Band4 | 5MHz | QPSK  | 20375 | 25RB#0  | 23.82 | PASS |
| Band4 | 5MHz | 16QAM | 19975 | 1RB#0   | 23.42 | PASS |
| Band4 | 5MHz | 16QAM | 19975 | 1RB#12  | 23.50 | PASS |
| Band4 | 5MHz | 16QAM | 19975 | 1RB#24  | 23.55 | PASS |
| Band4 | 5MHz | 16QAM | 19975 | 12RB#0  | 22.48 | PASS |
| Band4 | 5MHz | 16QAM | 19975 | 12RB#6  | 22.50 | PASS |

|       |       |       |       |         |       |      |
|-------|-------|-------|-------|---------|-------|------|
| Band4 | 5MHz  | 16QAM | 19975 | 12RB#13 | 22.53 | PASS |
| Band4 | 5MHz  | 16QAM | 19975 | 25RB#0  | 22.51 | PASS |
| Band4 | 5MHz  | 16QAM | 20175 | 1RB#0   | 23.22 | PASS |
| Band4 | 5MHz  | 16QAM | 20175 | 1RB#12  | 23.21 | PASS |
| Band4 | 5MHz  | 16QAM | 20175 | 1RB#24  | 23.24 | PASS |
| Band4 | 5MHz  | 16QAM | 20175 | 12RB#0  | 22.15 | PASS |
| Band4 | 5MHz  | 16QAM | 20175 | 12RB#6  | 22.15 | PASS |
| Band4 | 5MHz  | 16QAM | 20175 | 12RB#13 | 22.10 | PASS |
| Band4 | 5MHz  | 16QAM | 20175 | 25RB#0  | 22.06 | PASS |
| Band4 | 5MHz  | 16QAM | 20375 | 1RB#0   | 23.78 | PASS |
| Band4 | 5MHz  | 16QAM | 20375 | 1RB#12  | 23.76 | PASS |
| Band4 | 5MHz  | 16QAM | 20375 | 1RB#24  | 23.81 | PASS |
| Band4 | 5MHz  | 16QAM | 20375 | 12RB#0  | 22.84 | PASS |
| Band4 | 5MHz  | 16QAM | 20375 | 12RB#6  | 22.78 | PASS |
| Band4 | 5MHz  | 16QAM | 20375 | 12RB#13 | 22.74 | PASS |
| Band4 | 5MHz  | 16QAM | 20375 | 25RB#0  | 22.84 | PASS |
| Band4 | 10MHz | QPSK  | 20000 | 1RB#0   | 24.55 | PASS |
| Band4 | 10MHz | QPSK  | 20000 | 1RB#24  | 24.70 | PASS |
| Band4 | 10MHz | QPSK  | 20000 | 1RB#49  | 24.64 | PASS |
| Band4 | 10MHz | QPSK  | 20000 | 25RB#0  | 23.52 | PASS |
| Band4 | 10MHz | QPSK  | 20000 | 25RB#12 | 23.54 | PASS |
| Band4 | 10MHz | QPSK  | 20000 | 25RB#25 | 23.60 | PASS |
| Band4 | 10MHz | QPSK  | 20000 | 50RB#0  | 23.59 | PASS |
| Band4 | 10MHz | QPSK  | 20175 | 1RB#0   | 24.30 | PASS |
| Band4 | 10MHz | QPSK  | 20175 | 1RB#24  | 24.20 | PASS |
| Band4 | 10MHz | QPSK  | 20175 | 1RB#49  | 24.17 | PASS |
| Band4 | 10MHz | QPSK  | 20175 | 25RB#0  | 23.12 | PASS |
| Band4 | 10MHz | QPSK  | 20175 | 25RB#12 | 23.16 | PASS |
| Band4 | 10MHz | QPSK  | 20175 | 25RB#25 | 23.16 | PASS |
| Band4 | 10MHz | QPSK  | 20175 | 50RB#0  | 23.14 | PASS |
| Band4 | 10MHz | QPSK  | 20350 | 1RB#0   | 24.72 | PASS |
| Band4 | 10MHz | QPSK  | 20350 | 1RB#24  | 24.88 | PASS |
| Band4 | 10MHz | QPSK  | 20350 | 1RB#49  | 24.84 | PASS |
| Band4 | 10MHz | QPSK  | 20350 | 25RB#0  | 23.74 | PASS |
| Band4 | 10MHz | QPSK  | 20350 | 25RB#12 | 23.72 | PASS |
| Band4 | 10MHz | QPSK  | 20350 | 25RB#25 | 23.87 | PASS |
| Band4 | 10MHz | QPSK  | 20350 | 50RB#0  | 23.77 | PASS |

|       |       |       |       |         |       |      |
|-------|-------|-------|-------|---------|-------|------|
| Band4 | 10MHz | 16QAM | 20000 | 1RB#0   | 23.52 | PASS |
| Band4 | 10MHz | 16QAM | 20000 | 1RB#24  | 23.69 | PASS |
| Band4 | 10MHz | 16QAM | 20000 | 1RB#49  | 23.62 | PASS |
| Band4 | 10MHz | 16QAM | 20000 | 25RB#0  | 22.47 | PASS |
| Band4 | 10MHz | 16QAM | 20000 | 25RB#12 | 22.49 | PASS |
| Band4 | 10MHz | 16QAM | 20000 | 25RB#25 | 22.58 | PASS |
| Band4 | 10MHz | 16QAM | 20000 | 50RB#0  | 22.56 | PASS |
| Band4 | 10MHz | 16QAM | 20175 | 1RB#0   | 23.20 | PASS |
| Band4 | 10MHz | 16QAM | 20175 | 1RB#24  | 23.06 | PASS |
| Band4 | 10MHz | 16QAM | 20175 | 1RB#49  | 22.98 | PASS |
| Band4 | 10MHz | 16QAM | 20175 | 25RB#0  | 22.17 | PASS |
| Band4 | 10MHz | 16QAM | 20175 | 25RB#12 | 22.15 | PASS |
| Band4 | 10MHz | 16QAM | 20175 | 25RB#25 | 22.15 | PASS |
| Band4 | 10MHz | 16QAM | 20175 | 50RB#0  | 22.18 | PASS |
| Band4 | 10MHz | 16QAM | 20350 | 1RB#0   | 23.69 | PASS |
| Band4 | 10MHz | 16QAM | 20350 | 1RB#24  | 23.83 | PASS |
| Band4 | 10MHz | 16QAM | 20350 | 1RB#49  | 23.85 | PASS |
| Band4 | 10MHz | 16QAM | 20350 | 25RB#0  | 22.70 | PASS |
| Band4 | 10MHz | 16QAM | 20350 | 25RB#12 | 22.67 | PASS |
| Band4 | 10MHz | 16QAM | 20350 | 25RB#25 | 22.82 | PASS |
| Band4 | 10MHz | 16QAM | 20350 | 50RB#0  | 22.75 | PASS |
| Band4 | 15MHz | QPSK  | 20025 | 1RB#0   | 24.50 | PASS |
| Band4 | 15MHz | QPSK  | 20025 | 1RB#38  | 24.67 | PASS |
| Band4 | 15MHz | QPSK  | 20025 | 1RB#74  | 24.42 | PASS |
| Band4 | 15MHz | QPSK  | 20025 | 38RB#0  | 23.49 | PASS |
| Band4 | 15MHz | QPSK  | 20025 | 38RB#18 | 23.68 | PASS |
| Band4 | 15MHz | QPSK  | 20025 | 38RB#37 | 23.39 | PASS |
| Band4 | 15MHz | QPSK  | 20025 | 75RB#0  | 23.56 | PASS |
| Band4 | 15MHz | QPSK  | 20175 | 1RB#0   | 24.22 | PASS |
| Band4 | 15MHz | QPSK  | 20175 | 1RB#38  | 24.08 | PASS |
| Band4 | 15MHz | QPSK  | 20175 | 1RB#74  | 24.06 | PASS |
| Band4 | 15MHz | QPSK  | 20175 | 38RB#0  | 23.31 | PASS |
| Band4 | 15MHz | QPSK  | 20175 | 38RB#18 | 23.26 | PASS |
| Band4 | 15MHz | QPSK  | 20175 | 38RB#37 | 23.25 | PASS |
| Band4 | 15MHz | QPSK  | 20175 | 75RB#0  | 23.17 | PASS |
| Band4 | 15MHz | QPSK  | 20325 | 1RB#0   | 24.47 | PASS |
| Band4 | 15MHz | QPSK  | 20325 | 1RB#38  | 24.84 | PASS |

|       |       |       |       |         |       |      |
|-------|-------|-------|-------|---------|-------|------|
| Band4 | 15MHz | QPSK  | 20325 | 1RB#74  | 24.80 | PASS |
| Band4 | 15MHz | QPSK  | 20325 | 38RB#0  | 23.47 | PASS |
| Band4 | 15MHz | QPSK  | 20325 | 38RB#18 | 23.83 | PASS |
| Band4 | 15MHz | QPSK  | 20325 | 38RB#37 | 23.81 | PASS |
| Band4 | 15MHz | QPSK  | 20325 | 75RB#0  | 23.68 | PASS |
| Band4 | 15MHz | 16QAM | 20025 | 1RB#0   | 23.53 | PASS |
| Band4 | 15MHz | 16QAM | 20025 | 1RB#38  | 23.69 | PASS |
| Band4 | 15MHz | 16QAM | 20025 | 1RB#74  | 23.40 | PASS |
| Band4 | 15MHz | 16QAM | 20025 | 38RB#0  | 23.49 | PASS |
| Band4 | 15MHz | 16QAM | 20025 | 38RB#18 | 23.67 | PASS |
| Band4 | 15MHz | 16QAM | 20025 | 38RB#37 | 23.39 | PASS |
| Band4 | 15MHz | 16QAM | 20025 | 75RB#0  | 22.50 | PASS |
| Band4 | 15MHz | 16QAM | 20175 | 1RB#0   | 23.34 | PASS |
| Band4 | 15MHz | 16QAM | 20175 | 1RB#38  | 23.26 | PASS |
| Band4 | 15MHz | 16QAM | 20175 | 1RB#74  | 23.23 | PASS |
| Band4 | 15MHz | 16QAM | 20175 | 38RB#0  | 23.32 | PASS |
| Band4 | 15MHz | 16QAM | 20175 | 38RB#18 | 23.26 | PASS |
| Band4 | 15MHz | 16QAM | 20175 | 38RB#37 | 23.24 | PASS |
| Band4 | 15MHz | 16QAM | 20175 | 75RB#0  | 22.14 | PASS |
| Band4 | 15MHz | 16QAM | 20325 | 1RB#0   | 23.47 | PASS |
| Band4 | 15MHz | 16QAM | 20325 | 1RB#38  | 23.85 | PASS |
| Band4 | 15MHz | 16QAM | 20325 | 1RB#74  | 23.81 | PASS |
| Band4 | 15MHz | 16QAM | 20325 | 38RB#0  | 23.46 | PASS |
| Band4 | 15MHz | 16QAM | 20325 | 38RB#18 | 23.82 | PASS |
| Band4 | 15MHz | 16QAM | 20325 | 38RB#37 | 23.80 | PASS |
| Band4 | 15MHz | 16QAM | 20325 | 75RB#0  | 22.66 | PASS |
| Band4 | 20MHz | QPSK  | 20050 | 1RB#0   | 24.23 | PASS |
| Band4 | 20MHz | QPSK  | 20050 | 1RB#49  | 24.38 | PASS |
| Band4 | 20MHz | QPSK  | 20050 | 1RB#99  | 24.01 | PASS |
| Band4 | 20MHz | QPSK  | 20050 | 50RB#0  | 23.27 | PASS |
| Band4 | 20MHz | QPSK  | 20050 | 50RB#25 | 23.29 | PASS |
| Band4 | 20MHz | QPSK  | 20050 | 50RB#50 | 23.20 | PASS |
| Band4 | 20MHz | QPSK  | 20050 | 100RB#0 | 23.17 | PASS |
| Band4 | 20MHz | QPSK  | 20175 | 1RB#0   | 24.04 | PASS |
| Band4 | 20MHz | QPSK  | 20175 | 1RB#49  | 23.91 | PASS |
| Band4 | 20MHz | QPSK  | 20175 | 1RB#99  | 23.99 | PASS |
| Band4 | 20MHz | QPSK  | 20175 | 50RB#0  | 22.92 | PASS |

|       |       |       |       |         |              |      |
|-------|-------|-------|-------|---------|--------------|------|
| Band4 | 20MHz | QPSK  | 20175 | 50RB#25 | 22.93        | PASS |
| Band4 | 20MHz | QPSK  | 20175 | 50RB#50 | 22.92        | PASS |
| Band4 | 20MHz | QPSK  | 20175 | 100RB#0 | 22.93        | PASS |
| Band4 | 20MHz | QPSK  | 20300 | 1RB#0   | 24.04        | PASS |
| Band4 | 20MHz | QPSK  | 20300 | 1RB#49  | 24.50        | PASS |
| Band4 | 20MHz | QPSK  | 20300 | 1RB#99  | <b>25.07</b> | PASS |
| Band4 | 20MHz | QPSK  | 20300 | 50RB#0  | 23.16        | PASS |
| Band4 | 20MHz | QPSK  | 20300 | 50RB#25 | 23.14        | PASS |
| Band4 | 20MHz | QPSK  | 20300 | 50RB#50 | 23.51        | PASS |
| Band4 | 20MHz | QPSK  | 20300 | 100RB#0 | 23.35        | PASS |
| Band4 | 20MHz | 16QAM | 20050 | 1RB#0   | 23.05        | PASS |
| Band4 | 20MHz | 16QAM | 20050 | 1RB#49  | 23.24        | PASS |
| Band4 | 20MHz | 16QAM | 20050 | 1RB#99  | 22.84        | PASS |
| Band4 | 20MHz | 16QAM | 20050 | 50RB#0  | 22.25        | PASS |
| Band4 | 20MHz | 16QAM | 20050 | 50RB#25 | 22.26        | PASS |
| Band4 | 20MHz | 16QAM | 20050 | 50RB#50 | 22.16        | PASS |
| Band4 | 20MHz | 16QAM | 20050 | 100RB#0 | 22.15        | PASS |
| Band4 | 20MHz | 16QAM | 20175 | 1RB#0   | 23.29        | PASS |
| Band4 | 20MHz | 16QAM | 20175 | 1RB#49  | 23.12        | PASS |
| Band4 | 20MHz | 16QAM | 20175 | 1RB#99  | 23.19        | PASS |
| Band4 | 20MHz | 16QAM | 20175 | 50RB#0  | 21.92        | PASS |
| Band4 | 20MHz | 16QAM | 20175 | 50RB#25 | 21.92        | PASS |
| Band4 | 20MHz | 16QAM | 20175 | 50RB#50 | 21.95        | PASS |
| Band4 | 20MHz | 16QAM | 20175 | 100RB#0 | 21.91        | PASS |
| Band4 | 20MHz | 16QAM | 20300 | 1RB#0   | 22.91        | PASS |
| Band4 | 20MHz | 16QAM | 20300 | 1RB#49  | 23.36        | PASS |
| Band4 | 20MHz | 16QAM | 20300 | 1RB#99  | 23.40        | PASS |
| Band4 | 20MHz | 16QAM | 20300 | 50RB#0  | 22.14        | PASS |
| Band4 | 20MHz | 16QAM | 20300 | 50RB#25 | 22.16        | PASS |
| Band4 | 20MHz | 16QAM | 20300 | 50RB#50 | 22.45        | PASS |
| Band4 | 20MHz | 16QAM | 20300 | 100RB#0 | 22.34        | PASS |

| Band  | Bandwidth | Modulation | Channel | RB Configuration | Result(dBm) | Verdict |
|-------|-----------|------------|---------|------------------|-------------|---------|
| Band5 | 1.4MHz    | QPSK       | 20407   | 1RB#0            | 24.45       | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20407   | 1RB#2            | 24.40       | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20407   | 1RB#5            | 24.44       | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20407   | 3RB#0            | 24.45       | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20407   | 3RB#1            | 24.44       | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20407   | 3RB#3            | 24.50       | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20407   | 6RB#0            | 23.44       | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20525   | 1RB#0            | 24.74       | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20525   | 1RB#2            | 24.77       | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20525   | 1RB#5            | 24.69       | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20525   | 3RB#0            | 24.84       | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20525   | 3RB#1            | 24.85       | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20525   | 3RB#3            | 24.78       | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20525   | 6RB#0            | 23.86       | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20643   | 1RB#0            | 24.66       | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20643   | 1RB#2            | 24.63       | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20643   | 1RB#5            | 24.66       | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20643   | 3RB#0            | 24.73       | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20643   | 3RB#1            | 24.74       | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20643   | 3RB#3            | 24.78       | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20643   | 6RB#0            | 23.70       | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20407   | 1RB#0            | 23.31       | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20407   | 1RB#2            | 23.34       | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20407   | 1RB#5            | 23.37       | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20407   | 3RB#0            | 23.24       | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20407   | 3RB#1            | 23.26       | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20407   | 3RB#3            | 23.26       | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20407   | 6RB#0            | 22.26       | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20525   | 1RB#0            | 23.68       | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20525   | 1RB#2            | 23.74       | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20525   | 1RB#5            | 23.65       | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20525   | 3RB#0            | 23.69       | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20525   | 3RB#1            | 23.70       | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20525   | 3RB#3            | 23.61       | PASS    |

|       |        |       |       |        |       |      |
|-------|--------|-------|-------|--------|-------|------|
| Band5 | 1.4MHz | 16QAM | 20525 | 6RB#0  | 22.85 | PASS |
| Band5 | 1.4MHz | 16QAM | 20643 | 1RB#0  | 23.55 | PASS |
| Band5 | 1.4MHz | 16QAM | 20643 | 1RB#2  | 23.58 | PASS |
| Band5 | 1.4MHz | 16QAM | 20643 | 1RB#5  | 23.56 | PASS |
| Band5 | 1.4MHz | 16QAM | 20643 | 3RB#0  | 23.53 | PASS |
| Band5 | 1.4MHz | 16QAM | 20643 | 3RB#1  | 23.52 | PASS |
| Band5 | 1.4MHz | 16QAM | 20643 | 3RB#3  | 23.55 | PASS |
| Band5 | 1.4MHz | 16QAM | 20643 | 6RB#0  | 22.53 | PASS |
| Band5 | 3MHz   | QPSK  | 20415 | 1RB#0  | 23.48 | PASS |
| Band5 | 3MHz   | QPSK  | 20415 | 1RB#8  | 24.57 | PASS |
| Band5 | 3MHz   | QPSK  | 20415 | 1RB#14 | 24.54 | PASS |
| Band5 | 3MHz   | QPSK  | 20415 | 8RB#0  | 23.45 | PASS |
| Band5 | 3MHz   | QPSK  | 20415 | 8RB#4  | 23.46 | PASS |
| Band5 | 3MHz   | QPSK  | 20415 | 8RB#7  | 23.51 | PASS |
| Band5 | 3MHz   | QPSK  | 20415 | 15RB#0 | 23.44 | PASS |
| Band5 | 3MHz   | QPSK  | 20525 | 1RB#0  | 24.88 | PASS |
| Band5 | 3MHz   | QPSK  | 20525 | 1RB#8  | 24.90 | PASS |
| Band5 | 3MHz   | QPSK  | 20525 | 1RB#14 | 24.89 | PASS |
| Band5 | 3MHz   | QPSK  | 20525 | 8RB#0  | 23.82 | PASS |
| Band5 | 3MHz   | QPSK  | 20525 | 8RB#4  | 23.81 | PASS |
| Band5 | 3MHz   | QPSK  | 20525 | 8RB#7  | 23.82 | PASS |
| Band5 | 3MHz   | QPSK  | 20525 | 15RB#0 | 23.81 | PASS |
| Band5 | 3MHz   | QPSK  | 20635 | 1RB#0  | 24.83 | PASS |
| Band5 | 3MHz   | QPSK  | 20635 | 1RB#8  | 24.79 | PASS |
| Band5 | 3MHz   | QPSK  | 20635 | 1RB#14 | 24.74 | PASS |
| Band5 | 3MHz   | QPSK  | 20635 | 8RB#0  | 23.70 | PASS |
| Band5 | 3MHz   | QPSK  | 20635 | 8RB#4  | 23.71 | PASS |
| Band5 | 3MHz   | QPSK  | 20635 | 8RB#7  | 23.66 | PASS |
| Band5 | 3MHz   | QPSK  | 20635 | 15RB#0 | 23.68 | PASS |
| Band5 | 3MHz   | 16QAM | 20415 | 1RB#0  | 23.52 | PASS |
| Band5 | 3MHz   | 16QAM | 20415 | 1RB#8  | 23.55 | PASS |
| Band5 | 3MHz   | 16QAM | 20415 | 1RB#14 | 23.53 | PASS |
| Band5 | 3MHz   | 16QAM | 20415 | 8RB#0  | 22.49 | PASS |
| Band5 | 3MHz   | 16QAM | 20415 | 8RB#4  | 22.48 | PASS |
| Band5 | 3MHz   | 16QAM | 20415 | 8RB#7  | 22.48 | PASS |
| Band5 | 3MHz   | 16QAM | 20415 | 15RB#0 | 22.47 | PASS |
| Band5 | 3MHz   | 16QAM | 20525 | 1RB#0  | 23.93 | PASS |

|       |      |       |       |         |       |      |
|-------|------|-------|-------|---------|-------|------|
| Band5 | 3MHz | 16QAM | 20525 | 1RB#8   | 23.90 | PASS |
| Band5 | 3MHz | 16QAM | 20525 | 1RB#14  | 23.90 | PASS |
| Band5 | 3MHz | 16QAM | 20525 | 8RB#0   | 22.86 | PASS |
| Band5 | 3MHz | 16QAM | 20525 | 8RB#4   | 22.86 | PASS |
| Band5 | 3MHz | 16QAM | 20525 | 8RB#7   | 22.88 | PASS |
| Band5 | 3MHz | 16QAM | 20525 | 15RB#0  | 22.82 | PASS |
| Band5 | 3MHz | 16QAM | 20635 | 1RB#0   | 23.82 | PASS |
| Band5 | 3MHz | 16QAM | 20635 | 1RB#8   | 23.75 | PASS |
| Band5 | 3MHz | 16QAM | 20635 | 1RB#14  | 23.74 | PASS |
| Band5 | 3MHz | 16QAM | 20635 | 8RB#0   | 22.72 | PASS |
| Band5 | 3MHz | 16QAM | 20635 | 8RB#4   | 22.75 | PASS |
| Band5 | 3MHz | 16QAM | 20635 | 8RB#7   | 22.73 | PASS |
| Band5 | 3MHz | 16QAM | 20635 | 15RB#0  | 22.71 | PASS |
| Band5 | 5MHz | QPSK  | 20425 | 1RB#0   | 24.68 | PASS |
| Band5 | 5MHz | QPSK  | 20425 | 1RB#12  | 24.70 | PASS |
| Band5 | 5MHz | QPSK  | 20425 | 1RB#24  | 24.72 | PASS |
| Band5 | 5MHz | QPSK  | 20425 | 12RB#0  | 23.51 | PASS |
| Band5 | 5MHz | QPSK  | 20425 | 12RB#6  | 23.49 | PASS |
| Band5 | 5MHz | QPSK  | 20425 | 12RB#13 | 23.53 | PASS |
| Band5 | 5MHz | QPSK  | 20425 | 25RB#0  | 23.51 | PASS |
| Band5 | 5MHz | QPSK  | 20525 | 1RB#0   | 24.92 | PASS |
| Band5 | 5MHz | QPSK  | 20525 | 1RB#12  | 24.96 | PASS |
| Band5 | 5MHz | QPSK  | 20525 | 1RB#24  | 24.93 | PASS |
| Band5 | 5MHz | QPSK  | 20525 | 12RB#0  | 23.87 | PASS |
| Band5 | 5MHz | QPSK  | 20525 | 12RB#6  | 23.88 | PASS |
| Band5 | 5MHz | QPSK  | 20525 | 12RB#13 | 23.85 | PASS |
| Band5 | 5MHz | QPSK  | 20525 | 25RB#0  | 23.85 | PASS |
| Band5 | 5MHz | QPSK  | 20625 | 1RB#0   | 25.01 | PASS |
| Band5 | 5MHz | QPSK  | 20625 | 1RB#12  | 24.96 | PASS |
| Band5 | 5MHz | QPSK  | 20625 | 1RB#24  | 24.91 | PASS |
| Band5 | 5MHz | QPSK  | 20625 | 12RB#0  | 23.80 | PASS |
| Band5 | 5MHz | QPSK  | 20625 | 12RB#6  | 23.81 | PASS |
| Band5 | 5MHz | QPSK  | 20625 | 12RB#13 | 23.69 | PASS |
| Band5 | 5MHz | QPSK  | 20625 | 25RB#0  | 23.76 | PASS |
| Band5 | 5MHz | 16QAM | 20425 | 1RB#0   | 23.39 | PASS |
| Band5 | 5MHz | 16QAM | 20425 | 1RB#12  | 23.45 | PASS |
| Band5 | 5MHz | 16QAM | 20425 | 1RB#24  | 23.51 | PASS |

|       |       |       |       |         |              |      |
|-------|-------|-------|-------|---------|--------------|------|
| Band5 | 5MHz  | 16QAM | 20425 | 12RB#0  | 22.51        | PASS |
| Band5 | 5MHz  | 16QAM | 20425 | 12RB#6  | 22.47        | PASS |
| Band5 | 5MHz  | 16QAM | 20425 | 12RB#13 | 22.49        | PASS |
| Band5 | 5MHz  | 16QAM | 20425 | 25RB#0  | 22.53        | PASS |
| Band5 | 5MHz  | 16QAM | 20525 | 1RB#0   | 23.86        | PASS |
| Band5 | 5MHz  | 16QAM | 20525 | 1RB#12  | 23.88        | PASS |
| Band5 | 5MHz  | 16QAM | 20525 | 1RB#24  | 23.93        | PASS |
| Band5 | 5MHz  | 16QAM | 20525 | 12RB#0  | 22.90        | PASS |
| Band5 | 5MHz  | 16QAM | 20525 | 12RB#6  | 22.90        | PASS |
| Band5 | 5MHz  | 16QAM | 20525 | 12RB#13 | 22.89        | PASS |
| Band5 | 5MHz  | 16QAM | 20525 | 25RB#0  | 22.84        | PASS |
| Band5 | 5MHz  | 16QAM | 20625 | 1RB#0   | 23.78        | PASS |
| Band5 | 5MHz  | 16QAM | 20625 | 1RB#12  | 23.71        | PASS |
| Band5 | 5MHz  | 16QAM | 20625 | 1RB#24  | 23.63        | PASS |
| Band5 | 5MHz  | 16QAM | 20625 | 12RB#0  | 22.77        | PASS |
| Band5 | 5MHz  | 16QAM | 20625 | 12RB#6  | 22.82        | PASS |
| Band5 | 5MHz  | 16QAM | 20625 | 12RB#13 | 22.69        | PASS |
| Band5 | 5MHz  | 16QAM | 20625 | 25RB#0  | 22.79        | PASS |
| Band5 | 10MHz | QPSK  | 20450 | 1RB#0   | 24.53        | PASS |
| Band5 | 10MHz | QPSK  | 20450 | 1RB#24  | 24.67        | PASS |
| Band5 | 10MHz | QPSK  | 20450 | 1RB#49  | 24.81        | PASS |
| Band5 | 10MHz | QPSK  | 20450 | 25RB#0  | 23.54        | PASS |
| Band5 | 10MHz | QPSK  | 20450 | 25RB#12 | 23.53        | PASS |
| Band5 | 10MHz | QPSK  | 20450 | 25RB#25 | 23.67        | PASS |
| Band5 | 10MHz | QPSK  | 20450 | 50RB#0  | 23.65        | PASS |
| Band5 | 10MHz | QPSK  | 20525 | 1RB#0   | 24.70        | PASS |
| Band5 | 10MHz | QPSK  | 20525 | 1RB#24  | 24.92        | PASS |
| Band5 | 10MHz | QPSK  | 20525 | 1RB#49  | 24.83        | PASS |
| Band5 | 10MHz | QPSK  | 20525 | 25RB#0  | 23.84        | PASS |
| Band5 | 10MHz | QPSK  | 20525 | 25RB#12 | 23.81        | PASS |
| Band5 | 10MHz | QPSK  | 20525 | 25RB#25 | 23.85        | PASS |
| Band5 | 10MHz | QPSK  | 20525 | 50RB#0  | 23.83        | PASS |
| Band5 | 10MHz | QPSK  | 20600 | 1RB#0   | <b>25.09</b> | PASS |
| Band5 | 10MHz | QPSK  | 20600 | 1RB#24  | 24.95        | PASS |
| Band5 | 10MHz | QPSK  | 20600 | 1RB#49  | 24.77        | PASS |
| Band5 | 10MHz | QPSK  | 20600 | 25RB#0  | 23.96        | PASS |
| Band5 | 10MHz | QPSK  | 20600 | 25RB#12 | 23.97        | PASS |

|       |       |       |       |         |       |      |
|-------|-------|-------|-------|---------|-------|------|
| Band5 | 10MHz | QPSK  | 20600 | 25RB#25 | 23.77 | PASS |
| Band5 | 10MHz | QPSK  | 20600 | 50RB#0  | 23.85 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 1RB#0   | 23.52 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 1RB#24  | 23.63 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 1RB#49  | 23.81 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 25RB#0  | 22.54 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 25RB#12 | 22.55 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 25RB#25 | 22.63 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 50RB#0  | 22.62 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 1RB#0   | 23.55 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 1RB#24  | 23.77 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 1RB#49  | 23.68 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 25RB#0  | 22.86 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 25RB#12 | 22.86 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 25RB#25 | 22.88 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 50RB#0  | 22.84 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 1RB#0   | 23.96 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 1RB#24  | 23.91 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 1RB#49  | 23.75 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 25RB#0  | 22.92 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 25RB#12 | 22.92 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 25RB#25 | 22.75 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 50RB#0  | 22.86 | PASS |

| Band  | Bandwidth | Modulation | Channel | RB Configuration | Result(dBm) | Verdict |
|-------|-----------|------------|---------|------------------|-------------|---------|
| Band7 | 5MHz      | QPSK       | 20775   | 1RB#0            | 24.24       | PASS    |
| Band7 | 5MHz      | QPSK       | 20775   | 1RB#12           | 24.28       | PASS    |
| Band7 | 5MHz      | QPSK       | 20775   | 1RB#24           | 24.25       | PASS    |
| Band7 | 5MHz      | QPSK       | 20775   | 12RB#0           | 23.38       | PASS    |
| Band7 | 5MHz      | QPSK       | 20775   | 12RB#6           | 23.32       | PASS    |
| Band7 | 5MHz      | QPSK       | 20775   | 12RB#13          | 23.38       | PASS    |
| Band7 | 5MHz      | QPSK       | 20775   | 25RB#0           | 23.35       | PASS    |
| Band7 | 5MHz      | QPSK       | 21100   | 1RB#0            | 24.39       | PASS    |
| Band7 | 5MHz      | QPSK       | 21100   | 1RB#12           | 24.55       | PASS    |
| Band7 | 5MHz      | QPSK       | 21100   | 1RB#24           | 24.40       | PASS    |
| Band7 | 5MHz      | QPSK       | 21100   | 12RB#0           | 23.34       | PASS    |

|       |       |       |       |         |       |      |
|-------|-------|-------|-------|---------|-------|------|
| Band7 | 5MHz  | QPSK  | 21100 | 12RB#6  | 23.36 | PASS |
| Band7 | 5MHz  | QPSK  | 21100 | 12RB#13 | 23.26 | PASS |
| Band7 | 5MHz  | QPSK  | 21100 | 25RB#0  | 23.43 | PASS |
| Band7 | 5MHz  | QPSK  | 21425 | 1RB#0   | 24.50 | PASS |
| Band7 | 5MHz  | QPSK  | 21425 | 1RB#12  | 24.52 | PASS |
| Band7 | 5MHz  | QPSK  | 21425 | 1RB#24  | 24.55 | PASS |
| Band7 | 5MHz  | QPSK  | 21425 | 12RB#0  | 23.40 | PASS |
| Band7 | 5MHz  | QPSK  | 21425 | 12RB#6  | 23.47 | PASS |
| Band7 | 5MHz  | QPSK  | 21425 | 12RB#13 | 23.53 | PASS |
| Band7 | 5MHz  | QPSK  | 21425 | 25RB#0  | 23.40 | PASS |
| Band7 | 5MHz  | 16QAM | 20775 | 1RB#0   | 22.90 | PASS |
| Band7 | 5MHz  | 16QAM | 20775 | 1RB#12  | 22.88 | PASS |
| Band7 | 5MHz  | 16QAM | 20775 | 1RB#24  | 22.88 | PASS |
| Band7 | 5MHz  | 16QAM | 20775 | 12RB#0  | 22.36 | PASS |
| Band7 | 5MHz  | 16QAM | 20775 | 12RB#6  | 22.31 | PASS |
| Band7 | 5MHz  | 16QAM | 20775 | 12RB#13 | 22.32 | PASS |
| Band7 | 5MHz  | 16QAM | 20775 | 25RB#0  | 22.44 | PASS |
| Band7 | 5MHz  | 16QAM | 21100 | 1RB#0   | 22.67 | PASS |
| Band7 | 5MHz  | 16QAM | 21100 | 1RB#12  | 22.82 | PASS |
| Band7 | 5MHz  | 16QAM | 21100 | 1RB#24  | 22.73 | PASS |
| Band7 | 5MHz  | 16QAM | 21100 | 12RB#0  | 22.37 | PASS |
| Band7 | 5MHz  | 16QAM | 21100 | 12RB#6  | 22.38 | PASS |
| Band7 | 5MHz  | 16QAM | 21100 | 12RB#13 | 22.39 | PASS |
| Band7 | 5MHz  | 16QAM | 21100 | 25RB#0  | 22.63 | PASS |
| Band7 | 5MHz  | 16QAM | 21425 | 1RB#0   | 22.86 | PASS |
| Band7 | 5MHz  | 16QAM | 21425 | 1RB#12  | 22.81 | PASS |
| Band7 | 5MHz  | 16QAM | 21425 | 1RB#24  | 22.96 | PASS |
| Band7 | 5MHz  | 16QAM | 21425 | 12RB#0  | 22.60 | PASS |
| Band7 | 5MHz  | 16QAM | 21425 | 12RB#6  | 22.52 | PASS |
| Band7 | 5MHz  | 16QAM | 21425 | 12RB#13 | 22.55 | PASS |
| Band7 | 5MHz  | 16QAM | 21425 | 25RB#0  | 22.64 | PASS |
| Band7 | 10MHz | QPSK  | 20800 | 1RB#0   | 24.37 | PASS |
| Band7 | 10MHz | QPSK  | 20800 | 1RB#24  | 24.33 | PASS |
| Band7 | 10MHz | QPSK  | 20800 | 1RB#49  | 24.29 | PASS |
| Band7 | 10MHz | QPSK  | 20800 | 25RB#0  | 23.42 | PASS |
| Band7 | 10MHz | QPSK  | 20800 | 25RB#12 | 23.36 | PASS |
| Band7 | 10MHz | QPSK  | 20800 | 25RB#25 | 23.44 | PASS |

|       |       |       |       |         |       |      |
|-------|-------|-------|-------|---------|-------|------|
| Band7 | 10MHz | QPSK  | 20800 | 50RB#0  | 23.27 | PASS |
| Band7 | 10MHz | QPSK  | 21100 | 1RB#0   | 24.22 | PASS |
| Band7 | 10MHz | QPSK  | 21100 | 1RB#24  | 24.30 | PASS |
| Band7 | 10MHz | QPSK  | 21100 | 1RB#49  | 24.20 | PASS |
| Band7 | 10MHz | QPSK  | 21100 | 25RB#0  | 23.21 | PASS |
| Band7 | 10MHz | QPSK  | 21100 | 25RB#12 | 23.28 | PASS |
| Band7 | 10MHz | QPSK  | 21100 | 25RB#25 | 23.38 | PASS |
| Band7 | 10MHz | QPSK  | 21100 | 50RB#0  | 23.46 | PASS |
| Band7 | 10MHz | QPSK  | 21400 | 1RB#0   | 24.34 | PASS |
| Band7 | 10MHz | QPSK  | 21400 | 1RB#24  | 24.29 | PASS |
| Band7 | 10MHz | QPSK  | 21400 | 1RB#49  | 24.29 | PASS |
| Band7 | 10MHz | QPSK  | 21400 | 25RB#0  | 23.37 | PASS |
| Band7 | 10MHz | QPSK  | 21400 | 25RB#12 | 23.37 | PASS |
| Band7 | 10MHz | QPSK  | 21400 | 25RB#25 | 23.36 | PASS |
| Band7 | 10MHz | QPSK  | 21400 | 50RB#0  | 23.42 | PASS |
| Band7 | 10MHz | 16QAM | 20800 | 1RB#0   | 23.27 | PASS |
| Band7 | 10MHz | 16QAM | 20800 | 1RB#24  | 23.26 | PASS |
| Band7 | 10MHz | 16QAM | 20800 | 1RB#49  | 23.20 | PASS |
| Band7 | 10MHz | 16QAM | 20800 | 25RB#0  | 22.57 | PASS |
| Band7 | 10MHz | 16QAM | 20800 | 25RB#12 | 22.60 | PASS |
| Band7 | 10MHz | 16QAM | 20800 | 25RB#25 | 22.55 | PASS |
| Band7 | 10MHz | 16QAM | 20800 | 50RB#0  | 22.48 | PASS |
| Band7 | 10MHz | 16QAM | 21100 | 1RB#0   | 23.11 | PASS |
| Band7 | 10MHz | 16QAM | 21100 | 1RB#24  | 23.32 | PASS |
| Band7 | 10MHz | 16QAM | 21100 | 1RB#49  | 23.10 | PASS |
| Band7 | 10MHz | 16QAM | 21100 | 25RB#0  | 22.39 | PASS |
| Band7 | 10MHz | 16QAM | 21100 | 25RB#12 | 22.35 | PASS |
| Band7 | 10MHz | 16QAM | 21100 | 25RB#25 | 22.44 | PASS |
| Band7 | 10MHz | 16QAM | 21100 | 50RB#0  | 22.65 | PASS |
| Band7 | 10MHz | 16QAM | 21400 | 1RB#0   | 23.18 | PASS |
| Band7 | 10MHz | 16QAM | 21400 | 1RB#24  | 23.28 | PASS |
| Band7 | 10MHz | 16QAM | 21400 | 1RB#49  | 23.28 | PASS |
| Band7 | 10MHz | 16QAM | 21400 | 25RB#0  | 22.50 | PASS |
| Band7 | 10MHz | 16QAM | 21400 | 25RB#12 | 22.43 | PASS |
| Band7 | 10MHz | 16QAM | 21400 | 25RB#25 | 22.57 | PASS |
| Band7 | 10MHz | 16QAM | 21400 | 50RB#0  | 22.54 | PASS |
| Band7 | 15MHz | QPSK  | 20825 | 1RB#0   | 24.47 | PASS |

|       |       |       |       |         |       |      |
|-------|-------|-------|-------|---------|-------|------|
| Band7 | 15MHz | QPSK  | 20825 | 1RB#38  | 24.37 | PASS |
| Band7 | 15MHz | QPSK  | 20825 | 1RB#74  | 24.25 | PASS |
| Band7 | 15MHz | QPSK  | 20825 | 38RB#0  | 23.77 | PASS |
| Band7 | 15MHz | QPSK  | 20825 | 38RB#18 | 23.27 | PASS |
| Band7 | 15MHz | QPSK  | 20825 | 38RB#37 | 23.19 | PASS |
| Band7 | 15MHz | QPSK  | 20825 | 75RB#0  | 23.30 | PASS |
| Band7 | 15MHz | QPSK  | 21100 | 1RB#0   | 24.20 | PASS |
| Band7 | 15MHz | QPSK  | 21100 | 1RB#38  | 24.30 | PASS |
| Band7 | 15MHz | QPSK  | 21100 | 1RB#74  | 24.14 | PASS |
| Band7 | 15MHz | QPSK  | 21100 | 38RB#0  | 23.07 | PASS |
| Band7 | 15MHz | QPSK  | 21100 | 38RB#18 | 23.25 | PASS |
| Band7 | 15MHz | QPSK  | 21100 | 38RB#37 | 23.05 | PASS |
| Band7 | 15MHz | QPSK  | 21100 | 75RB#0  | 23.55 | PASS |
| Band7 | 15MHz | QPSK  | 21375 | 1RB#0   | 24.21 | PASS |
| Band7 | 15MHz | QPSK  | 21375 | 1RB#38  | 24.18 | PASS |
| Band7 | 15MHz | QPSK  | 21375 | 1RB#74  | 24.31 | PASS |
| Band7 | 15MHz | QPSK  | 21375 | 38RB#0  | 23.18 | PASS |
| Band7 | 15MHz | QPSK  | 21375 | 38RB#18 | 23.25 | PASS |
| Band7 | 15MHz | QPSK  | 21375 | 38RB#37 | 23.32 | PASS |
| Band7 | 15MHz | QPSK  | 21375 | 75RB#0  | 23.35 | PASS |
| Band7 | 15MHz | 16QAM | 20825 | 1RB#0   | 23.72 | PASS |
| Band7 | 15MHz | 16QAM | 20825 | 1RB#38  | 23.51 | PASS |
| Band7 | 15MHz | 16QAM | 20825 | 1RB#74  | 23.53 | PASS |
| Band7 | 15MHz | 16QAM | 20825 | 38RB#0  | 23.77 | PASS |
| Band7 | 15MHz | 16QAM | 20825 | 38RB#18 | 23.26 | PASS |
| Band7 | 15MHz | 16QAM | 20825 | 38RB#37 | 23.21 | PASS |
| Band7 | 15MHz | 16QAM | 20825 | 75RB#0  | 22.54 | PASS |
| Band7 | 15MHz | 16QAM | 21100 | 1RB#0   | 23.08 | PASS |
| Band7 | 15MHz | 16QAM | 21100 | 1RB#38  | 23.30 | PASS |
| Band7 | 15MHz | 16QAM | 21100 | 1RB#74  | 23.10 | PASS |
| Band7 | 15MHz | 16QAM | 21100 | 38RB#0  | 23.13 | PASS |
| Band7 | 15MHz | 16QAM | 21100 | 38RB#18 | 23.26 | PASS |
| Band7 | 15MHz | 16QAM | 21100 | 38RB#37 | 23.15 | PASS |
| Band7 | 15MHz | 16QAM | 21100 | 75RB#0  | 22.62 | PASS |
| Band7 | 15MHz | 16QAM | 21375 | 1RB#0   | 23.16 | PASS |
| Band7 | 15MHz | 16QAM | 21375 | 1RB#38  | 23.22 | PASS |
| Band7 | 15MHz | 16QAM | 21375 | 1RB#74  | 23.30 | PASS |

|       |       |       |       |         |              |      |
|-------|-------|-------|-------|---------|--------------|------|
| Band7 | 15MHz | 16QAM | 21375 | 38RB#0  | 23.21        | PASS |
| Band7 | 15MHz | 16QAM | 21375 | 38RB#18 | 23.27        | PASS |
| Band7 | 15MHz | 16QAM | 21375 | 38RB#37 | 23.32        | PASS |
| Band7 | 15MHz | 16QAM | 21375 | 75RB#0  | 22.57        | PASS |
| Band7 | 20MHz | QPSK  | 20850 | 1RB#0   | <b>24.61</b> | PASS |
| Band7 | 20MHz | QPSK  | 20850 | 1RB#49  | 24.49        | PASS |
| Band7 | 20MHz | QPSK  | 20850 | 1RB#99  | 24.44        | PASS |
| Band7 | 20MHz | QPSK  | 20850 | 50RB#0  | 23.46        | PASS |
| Band7 | 20MHz | QPSK  | 20850 | 50RB#25 | 23.46        | PASS |
| Band7 | 20MHz | QPSK  | 20850 | 50RB#50 | 23.20        | PASS |
| Band7 | 20MHz | QPSK  | 20850 | 100RB#0 | 23.33        | PASS |
| Band7 | 20MHz | QPSK  | 21100 | 1RB#0   | 24.56        | PASS |
| Band7 | 20MHz | QPSK  | 21100 | 1RB#49  | 24.81        | PASS |
| Band7 | 20MHz | QPSK  | 21100 | 1RB#99  | 24.52        | PASS |
| Band7 | 20MHz | QPSK  | 21100 | 50RB#0  | 23.27        | PASS |
| Band7 | 20MHz | QPSK  | 21100 | 50RB#25 | 23.36        | PASS |
| Band7 | 20MHz | QPSK  | 21100 | 50RB#50 | 23.31        | PASS |
| Band7 | 20MHz | QPSK  | 21100 | 100RB#0 | 23.40        | PASS |
| Band7 | 20MHz | QPSK  | 21350 | 1RB#0   | 24.47        | PASS |
| Band7 | 20MHz | QPSK  | 21350 | 1RB#49  | 24.56        | PASS |
| Band7 | 20MHz | QPSK  | 21350 | 1RB#99  | 24.64        | PASS |
| Band7 | 20MHz | QPSK  | 21350 | 50RB#0  | 23.32        | PASS |
| Band7 | 20MHz | QPSK  | 21350 | 50RB#25 | 23.26        | PASS |
| Band7 | 20MHz | QPSK  | 21350 | 50RB#50 | 23.44        | PASS |
| Band7 | 20MHz | QPSK  | 21350 | 100RB#0 | 23.34        | PASS |
| Band7 | 20MHz | 16QAM | 20850 | 1RB#0   | 23.99        | PASS |
| Band7 | 20MHz | 16QAM | 20850 | 1RB#49  | 23.90        | PASS |
| Band7 | 20MHz | 16QAM | 20850 | 1RB#99  | 23.81        | PASS |
| Band7 | 20MHz | 16QAM | 20850 | 50RB#0  | 22.45        | PASS |
| Band7 | 20MHz | 16QAM | 20850 | 50RB#25 | 22.45        | PASS |
| Band7 | 20MHz | 16QAM | 20850 | 50RB#50 | 22.45        | PASS |
| Band7 | 20MHz | 16QAM | 20850 | 100RB#0 | 22.43        | PASS |
| Band7 | 20MHz | 16QAM | 21100 | 1RB#0   | 23.04        | PASS |
| Band7 | 20MHz | 16QAM | 21100 | 1RB#49  | 23.19        | PASS |
| Band7 | 20MHz | 16QAM | 21100 | 1RB#99  | 22.73        | PASS |
| Band7 | 20MHz | 16QAM | 21100 | 50RB#0  | 22.58        | PASS |
| Band7 | 20MHz | 16QAM | 21100 | 50RB#25 | 22.51        | PASS |

|       |       |       |       |         |       |      |
|-------|-------|-------|-------|---------|-------|------|
| Band7 | 20MHz | 16QAM | 21100 | 50RB#50 | 22.50 | PASS |
| Band7 | 20MHz | 16QAM | 21100 | 100RB#0 | 22.61 | PASS |
| Band7 | 20MHz | 16QAM | 21350 | 1RB#0   | 23.12 | PASS |
| Band7 | 20MHz | 16QAM | 21350 | 1RB#49  | 23.14 | PASS |
| Band7 | 20MHz | 16QAM | 21350 | 1RB#99  | 23.19 | PASS |
| Band7 | 20MHz | 16QAM | 21350 | 50RB#0  | 22.57 | PASS |
| Band7 | 20MHz | 16QAM | 21350 | 50RB#25 | 22.54 | PASS |
| Band7 | 20MHz | 16QAM | 21350 | 50RB#50 | 22.57 | PASS |
| Band7 | 20MHz | 16QAM | 21350 | 100RB#0 | 22.45 | PASS |

| Band   | Bandwidth | Modulation | Channel | RB Configuration | Result(dBm) | Verdict |
|--------|-----------|------------|---------|------------------|-------------|---------|
| Band12 | 1.4MHz    | QPSK       | 23017   | 1RB#0            | 24.44       | PASS    |
| Band12 | 1.4MHz    | QPSK       | 23017   | 1RB#2            | 24.41       | PASS    |
| Band12 | 1.4MHz    | QPSK       | 23017   | 1RB#5            | 24.38       | PASS    |
| Band12 | 1.4MHz    | QPSK       | 23017   | 3RB#0            | 24.50       | PASS    |
| Band12 | 1.4MHz    | QPSK       | 23017   | 3RB#1            | 24.49       | PASS    |
| Band12 | 1.4MHz    | QPSK       | 23017   | 3RB#3            | 24.47       | PASS    |
| Band12 | 1.4MHz    | QPSK       | 23017   | 6RB#0            | 23.54       | PASS    |
| Band12 | 1.4MHz    | QPSK       | 23095   | 1RB#0            | 24.34       | PASS    |
| Band12 | 1.4MHz    | QPSK       | 23095   | 1RB#2            | 24.23       | PASS    |
| Band12 | 1.4MHz    | QPSK       | 23095   | 1RB#5            | 24.21       | PASS    |
| Band12 | 1.4MHz    | QPSK       | 23095   | 3RB#0            | 24.31       | PASS    |
| Band12 | 1.4MHz    | QPSK       | 23095   | 3RB#1            | 24.33       | PASS    |
| Band12 | 1.4MHz    | QPSK       | 23095   | 3RB#3            | 24.29       | PASS    |
| Band12 | 1.4MHz    | QPSK       | 23095   | 6RB#0            | 23.25       | PASS    |
| Band12 | 1.4MHz    | QPSK       | 23173   | 1RB#0            | 23.96       | PASS    |
| Band12 | 1.4MHz    | QPSK       | 23173   | 1RB#2            | 24.00       | PASS    |
| Band12 | 1.4MHz    | QPSK       | 23173   | 1RB#5            | 24.01       | PASS    |
| Band12 | 1.4MHz    | QPSK       | 23173   | 3RB#0            | 24.08       | PASS    |
| Band12 | 1.4MHz    | QPSK       | 23173   | 3RB#1            | 24.06       | PASS    |
| Band12 | 1.4MHz    | QPSK       | 23173   | 3RB#3            | 24.12       | PASS    |
| Band12 | 1.4MHz    | QPSK       | 23173   | 6RB#0            | 23.22       | PASS    |
| Band12 | 1.4MHz    | 16QAM      | 23017   | 1RB#0            | 23.38       | PASS    |
| Band12 | 1.4MHz    | 16QAM      | 23017   | 1RB#2            | 23.39       | PASS    |
| Band12 | 1.4MHz    | 16QAM      | 23017   | 1RB#5            | 23.33       | PASS    |

|        |        |       |       |        |       |      |
|--------|--------|-------|-------|--------|-------|------|
| Band12 | 1.4MHz | 16QAM | 23017 | 3RB#0  | 23.37 | PASS |
| Band12 | 1.4MHz | 16QAM | 23017 | 3RB#1  | 23.37 | PASS |
| Band12 | 1.4MHz | 16QAM | 23017 | 3RB#3  | 23.37 | PASS |
| Band12 | 1.4MHz | 16QAM | 23017 | 6RB#0  | 22.54 | PASS |
| Band12 | 1.4MHz | 16QAM | 23095 | 1RB#0  | 23.19 | PASS |
| Band12 | 1.4MHz | 16QAM | 23095 | 1RB#2  | 23.17 | PASS |
| Band12 | 1.4MHz | 16QAM | 23095 | 1RB#5  | 23.15 | PASS |
| Band12 | 1.4MHz | 16QAM | 23095 | 3RB#0  | 23.12 | PASS |
| Band12 | 1.4MHz | 16QAM | 23095 | 3RB#1  | 23.11 | PASS |
| Band12 | 1.4MHz | 16QAM | 23095 | 3RB#3  | 23.08 | PASS |
| Band12 | 1.4MHz | 16QAM | 23095 | 6RB#0  | 22.09 | PASS |
| Band12 | 1.4MHz | 16QAM | 23173 | 1RB#0  | 22.86 | PASS |
| Band12 | 1.4MHz | 16QAM | 23173 | 1RB#2  | 22.90 | PASS |
| Band12 | 1.4MHz | 16QAM | 23173 | 1RB#5  | 22.87 | PASS |
| Band12 | 1.4MHz | 16QAM | 23173 | 3RB#0  | 23.02 | PASS |
| Band12 | 1.4MHz | 16QAM | 23173 | 3RB#1  | 23.01 | PASS |
| Band12 | 1.4MHz | 16QAM | 23173 | 3RB#3  | 23.02 | PASS |
| Band12 | 1.4MHz | 16QAM | 23173 | 6RB#0  | 22.04 | PASS |
| Band12 | 3MHz   | QPSK  | 23025 | 1RB#0  | 24.60 | PASS |
| Band12 | 3MHz   | QPSK  | 23025 | 1RB#8  | 24.54 | PASS |
| Band12 | 3MHz   | QPSK  | 23025 | 1RB#14 | 24.49 | PASS |
| Band12 | 3MHz   | QPSK  | 23025 | 8RB#0  | 23.55 | PASS |
| Band12 | 3MHz   | QPSK  | 23025 | 8RB#4  | 23.58 | PASS |
| Band12 | 3MHz   | QPSK  | 23025 | 8RB#7  | 23.50 | PASS |
| Band12 | 3MHz   | QPSK  | 23025 | 15RB#0 | 23.52 | PASS |
| Band12 | 3MHz   | QPSK  | 23095 | 1RB#0  | 24.21 | PASS |
| Band12 | 3MHz   | QPSK  | 23095 | 1RB#8  | 24.21 | PASS |
| Band12 | 3MHz   | QPSK  | 23095 | 1RB#14 | 24.09 | PASS |
| Band12 | 3MHz   | QPSK  | 23095 | 8RB#0  | 23.30 | PASS |
| Band12 | 3MHz   | QPSK  | 23095 | 8RB#4  | 23.30 | PASS |
| Band12 | 3MHz   | QPSK  | 23095 | 8RB#7  | 23.23 | PASS |
| Band12 | 3MHz   | QPSK  | 23095 | 15RB#0 | 23.28 | PASS |
| Band12 | 3MHz   | QPSK  | 23165 | 1RB#0  | 24.21 | PASS |
| Band12 | 3MHz   | QPSK  | 23165 | 1RB#8  | 24.24 | PASS |
| Band12 | 3MHz   | QPSK  | 23165 | 1RB#14 | 24.30 | PASS |
| Band12 | 3MHz   | QPSK  | 23165 | 8RB#0  | 23.13 | PASS |
| Band12 | 3MHz   | QPSK  | 23165 | 8RB#4  | 23.11 | PASS |

|        |      |       |       |         |       |      |
|--------|------|-------|-------|---------|-------|------|
| Band12 | 3MHz | QPSK  | 23165 | 8RB#7   | 23.15 | PASS |
| Band12 | 3MHz | QPSK  | 23165 | 15RB#0  | 23.13 | PASS |
| Band12 | 3MHz | 16QAM | 23025 | 1RB#0   | 23.49 | PASS |
| Band12 | 3MHz | 16QAM | 23025 | 1RB#8   | 23.38 | PASS |
| Band12 | 3MHz | 16QAM | 23025 | 1RB#14  | 23.35 | PASS |
| Band12 | 3MHz | 16QAM | 23025 | 8RB#0   | 22.47 | PASS |
| Band12 | 3MHz | 16QAM | 23025 | 8RB#4   | 22.50 | PASS |
| Band12 | 3MHz | 16QAM | 23025 | 8RB#7   | 22.44 | PASS |
| Band12 | 3MHz | 16QAM | 23025 | 15RB#0  | 22.41 | PASS |
| Band12 | 3MHz | 16QAM | 23095 | 1RB#0   | 23.04 | PASS |
| Band12 | 3MHz | 16QAM | 23095 | 1RB#8   | 23.02 | PASS |
| Band12 | 3MHz | 16QAM | 23095 | 1RB#14  | 22.95 | PASS |
| Band12 | 3MHz | 16QAM | 23095 | 8RB#0   | 22.26 | PASS |
| Band12 | 3MHz | 16QAM | 23095 | 8RB#4   | 22.27 | PASS |
| Band12 | 3MHz | 16QAM | 23095 | 8RB#7   | 22.24 | PASS |
| Band12 | 3MHz | 16QAM | 23095 | 15RB#0  | 22.19 | PASS |
| Band12 | 3MHz | 16QAM | 23165 | 1RB#0   | 23.22 | PASS |
| Band12 | 3MHz | 16QAM | 23165 | 1RB#8   | 23.22 | PASS |
| Band12 | 3MHz | 16QAM | 23165 | 1RB#14  | 23.27 | PASS |
| Band12 | 3MHz | 16QAM | 23165 | 8RB#0   | 22.15 | PASS |
| Band12 | 3MHz | 16QAM | 23165 | 8RB#4   | 22.14 | PASS |
| Band12 | 3MHz | 16QAM | 23165 | 8RB#7   | 22.18 | PASS |
| Band12 | 3MHz | 16QAM | 23165 | 15RB#0  | 22.14 | PASS |
| Band12 | 5MHz | QPSK  | 23035 | 1RB#0   | 24.78 | PASS |
| Band12 | 5MHz | QPSK  | 23035 | 1RB#12  | 24.72 | PASS |
| Band12 | 5MHz | QPSK  | 23035 | 1RB#24  | 24.64 | PASS |
| Band12 | 5MHz | QPSK  | 23035 | 12RB#0  | 23.54 | PASS |
| Band12 | 5MHz | QPSK  | 23035 | 12RB#6  | 23.51 | PASS |
| Band12 | 5MHz | QPSK  | 23035 | 12RB#13 | 23.44 | PASS |
| Band12 | 5MHz | QPSK  | 23035 | 25RB#0  | 23.50 | PASS |
| Band12 | 5MHz | QPSK  | 23095 | 1RB#0   | 24.47 | PASS |
| Band12 | 5MHz | QPSK  | 23095 | 1RB#12  | 24.42 | PASS |
| Band12 | 5MHz | QPSK  | 23095 | 1RB#24  | 24.29 | PASS |
| Band12 | 5MHz | QPSK  | 23095 | 12RB#0  | 23.32 | PASS |
| Band12 | 5MHz | QPSK  | 23095 | 12RB#6  | 23.33 | PASS |
| Band12 | 5MHz | QPSK  | 23095 | 12RB#13 | 23.25 | PASS |
| Band12 | 5MHz | QPSK  | 23095 | 25RB#0  | 23.30 | PASS |

|        |       |       |       |         |              |      |
|--------|-------|-------|-------|---------|--------------|------|
| Band12 | 5MHz  | QPSK  | 23155 | 1RB#0   | 24.30        | PASS |
| Band12 | 5MHz  | QPSK  | 23155 | 1RB#12  | 24.30        | PASS |
| Band12 | 5MHz  | QPSK  | 23155 | 1RB#24  | 24.37        | PASS |
| Band12 | 5MHz  | QPSK  | 23155 | 12RB#0  | 23.17        | PASS |
| Band12 | 5MHz  | QPSK  | 23155 | 12RB#6  | 23.20        | PASS |
| Band12 | 5MHz  | QPSK  | 23155 | 12RB#13 | 23.14        | PASS |
| Band12 | 5MHz  | QPSK  | 23155 | 25RB#0  | 23.17        | PASS |
| Band12 | 5MHz  | 16QAM | 23035 | 1RB#0   | 23.54        | PASS |
| Band12 | 5MHz  | 16QAM | 23035 | 1RB#12  | 23.46        | PASS |
| Band12 | 5MHz  | 16QAM | 23035 | 1RB#24  | 23.39        | PASS |
| Band12 | 5MHz  | 16QAM | 23035 | 12RB#0  | 22.50        | PASS |
| Band12 | 5MHz  | 16QAM | 23035 | 12RB#6  | 22.49        | PASS |
| Band12 | 5MHz  | 16QAM | 23035 | 12RB#13 | 22.41        | PASS |
| Band12 | 5MHz  | 16QAM | 23035 | 25RB#0  | 22.54        | PASS |
| Band12 | 5MHz  | 16QAM | 23095 | 1RB#0   | 23.41        | PASS |
| Band12 | 5MHz  | 16QAM | 23095 | 1RB#12  | 23.40        | PASS |
| Band12 | 5MHz  | 16QAM | 23095 | 1RB#24  | 23.28        | PASS |
| Band12 | 5MHz  | 16QAM | 23095 | 12RB#0  | 22.35        | PASS |
| Band12 | 5MHz  | 16QAM | 23095 | 12RB#6  | 22.34        | PASS |
| Band12 | 5MHz  | 16QAM | 23095 | 12RB#13 | 22.26        | PASS |
| Band12 | 5MHz  | 16QAM | 23095 | 25RB#0  | 22.25        | PASS |
| Band12 | 5MHz  | 16QAM | 23155 | 1RB#0   | 23.12        | PASS |
| Band12 | 5MHz  | 16QAM | 23155 | 1RB#12  | 23.07        | PASS |
| Band12 | 5MHz  | 16QAM | 23155 | 1RB#24  | 23.13        | PASS |
| Band12 | 5MHz  | 16QAM | 23155 | 12RB#0  | 22.15        | PASS |
| Band12 | 5MHz  | 16QAM | 23155 | 12RB#6  | 22.15        | PASS |
| Band12 | 5MHz  | 16QAM | 23155 | 12RB#13 | 22.12        | PASS |
| Band12 | 5MHz  | 16QAM | 23155 | 25RB#0  | 22.16        | PASS |
| Band12 | 10MHz | QPSK  | 23060 | 1RB#0   | <b>24.82</b> | PASS |
| Band12 | 10MHz | QPSK  | 23060 | 1RB#24  | 24.55        | PASS |
| Band12 | 10MHz | QPSK  | 23060 | 1RB#49  | 24.36        | PASS |
| Band12 | 10MHz | QPSK  | 23060 | 25RB#0  | 23.50        | PASS |
| Band12 | 10MHz | QPSK  | 23060 | 25RB#12 | 23.49        | PASS |
| Band12 | 10MHz | QPSK  | 23060 | 25RB#25 | 23.37        | PASS |
| Band12 | 10MHz | QPSK  | 23060 | 50RB#0  | 23.45        | PASS |
| Band12 | 10MHz | QPSK  | 23095 | 1RB#0   | 24.43        | PASS |
| Band12 | 10MHz | QPSK  | 23095 | 1RB#24  | 24.37        | PASS |

|        |       |       |       |         |       |      |
|--------|-------|-------|-------|---------|-------|------|
| Band12 | 10MHz | QPSK  | 23095 | 1RB#49  | 24.15 | PASS |
| Band12 | 10MHz | QPSK  | 23095 | 25RB#0  | 23.37 | PASS |
| Band12 | 10MHz | QPSK  | 23095 | 25RB#12 | 23.37 | PASS |
| Band12 | 10MHz | QPSK  | 23095 | 25RB#25 | 23.29 | PASS |
| Band12 | 10MHz | QPSK  | 23095 | 50RB#0  | 23.36 | PASS |
| Band12 | 10MHz | QPSK  | 23130 | 1RB#0   | 24.26 | PASS |
| Band12 | 10MHz | QPSK  | 23130 | 1RB#24  | 24.10 | PASS |
| Band12 | 10MHz | QPSK  | 23130 | 1RB#49  | 24.06 | PASS |
| Band12 | 10MHz | QPSK  | 23130 | 25RB#0  | 23.21 | PASS |
| Band12 | 10MHz | QPSK  | 23130 | 25RB#12 | 23.21 | PASS |
| Band12 | 10MHz | QPSK  | 23130 | 25RB#25 | 23.13 | PASS |
| Band12 | 10MHz | QPSK  | 23130 | 50RB#0  | 23.25 | PASS |
| Band12 | 10MHz | 16QAM | 23060 | 1RB#0   | 23.66 | PASS |
| Band12 | 10MHz | 16QAM | 23060 | 1RB#24  | 23.54 | PASS |
| Band12 | 10MHz | 16QAM | 23060 | 1RB#49  | 23.34 | PASS |
| Band12 | 10MHz | 16QAM | 23060 | 25RB#0  | 22.47 | PASS |
| Band12 | 10MHz | 16QAM | 23060 | 25RB#12 | 22.46 | PASS |
| Band12 | 10MHz | 16QAM | 23060 | 25RB#25 | 22.37 | PASS |
| Band12 | 10MHz | 16QAM | 23060 | 50RB#0  | 22.43 | PASS |
| Band12 | 10MHz | 16QAM | 23095 | 1RB#0   | 23.29 | PASS |
| Band12 | 10MHz | 16QAM | 23095 | 1RB#24  | 23.22 | PASS |
| Band12 | 10MHz | 16QAM | 23095 | 1RB#49  | 22.97 | PASS |
| Band12 | 10MHz | 16QAM | 23095 | 25RB#0  | 22.41 | PASS |
| Band12 | 10MHz | 16QAM | 23095 | 25RB#12 | 22.42 | PASS |
| Band12 | 10MHz | 16QAM | 23095 | 25RB#25 | 22.26 | PASS |
| Band12 | 10MHz | 16QAM | 23095 | 50RB#0  | 22.34 | PASS |
| Band12 | 10MHz | 16QAM | 23130 | 1RB#0   | 23.06 | PASS |
| Band12 | 10MHz | 16QAM | 23130 | 1RB#24  | 22.91 | PASS |
| Band12 | 10MHz | 16QAM | 23130 | 1RB#49  | 22.92 | PASS |
| Band12 | 10MHz | 16QAM | 23130 | 25RB#0  | 22.28 | PASS |
| Band12 | 10MHz | 16QAM | 23130 | 25RB#12 | 22.27 | PASS |
| Band12 | 10MHz | 16QAM | 23130 | 25RB#25 | 22.17 | PASS |
| Band12 | 10MHz | 16QAM | 23130 | 50RB#0  | 22.20 | 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.

## 9.2 Test Results for Standalone SAR Test

### Near to Mouth SAR

| GSM850 –Near to Mouth SAR Test (Gap: 10mm) |      |                    |           |       |                    |                   |                |              |                     |
|--------------------------------------------|------|--------------------|-----------|-------|--------------------|-------------------|----------------|--------------|---------------------|
| Plot No.                                   | Mode | Test Position Body | Frequency |       | Output Power (dBm) | Rated Limit (dBm) | Scaling Factor | SAR1g (W/kg) | Scaled SAR1g (W/kg) |
|                                            |      |                    | CH.       | MHz   |                    |                   |                |              |                     |
| 1.                                         | GSM  | Front side         | 128       | 824.2 | 32.89              | 33.0              | 1.026          | 0.220        | <b>0.226</b>        |

| GSM1900 –Near to Mouth SAR Test (Gap: 10mm) |      |                    |           |        |                    |                   |                |              |                     |
|---------------------------------------------|------|--------------------|-----------|--------|--------------------|-------------------|----------------|--------------|---------------------|
| Plot No.                                    | Mode | Test Position Body | Frequency |        | Output Power (dBm) | Rated Limit (dBm) | Scaling Factor | SAR1g (W/kg) | Scaled SAR1g (W/kg) |
|                                             |      |                    | CH.       | MHz    |                    |                   |                |              |                     |
| 2.                                          | GSM  | Front side         | 810       | 1909.8 | 29.36              | 29.5              | 1.033          | 0.450        | <b>0.465</b>        |

| LTE Band 2–Near to Mouth SAR Test (Gap: 10mm) |                  |                    |            |                    |                   |                |              |                     |
|-----------------------------------------------|------------------|--------------------|------------|--------------------|-------------------|----------------|--------------|---------------------|
| Plot No.                                      | Mode             | Test Position Body | Freque ncy | Output Power (dBm) | Rated Limit (dBm) | Scaling Factor | SAR1g (W/kg) | Scaled SAR1g (W/kg) |
|                                               | Bandwidth, RB    |                    | MHz        |                    |                   |                |              |                     |
|                                               | QPSK 20MHz 1RB   | Front Side         | 1860.0     | 24.51              | 25.0              | 1.119          | 0.965        | 1.080               |
| 3.                                            | QPSK 20MHz 1RB   | Front Side         | 1880.0     | 24.11              | 24.5              | 1.094          | 1.007        | <b>1.102</b>        |
|                                               | QPSK 20MHz 1RB   | Front Side         | 1900.0     | 24.17              | 24.5              | 1.079          | 1.008        | 1.088               |
|                                               | QPSK 20MHz 50%RB | Front Side         | 1860.0     | 24.51              | 25.0              | 1.119          | 0.896        | 1.003               |
|                                               | QPSK 20MHz 50%RB | Front Side         | 1880.0     | 24.11              | 24.5              | 1.094          | 0.889        | 0.973               |
|                                               | QPSK 20MHz 50%RB | Front Side         | 1900.0     | 24.17              | 24.5              | 1.079          | 0.938        | 1.012               |

| LTE Band 4–Near to Mouth SAR Test (Gap: 10mm) |                  |                    |            |                    |                   |                |              |                     |
|-----------------------------------------------|------------------|--------------------|------------|--------------------|-------------------|----------------|--------------|---------------------|
| Plot No.                                      | Mode             | Test Position Body | Freque ncy | Output Power (dBm) | Rated Limit (dBm) | Scaling Factor | SAR1g (W/kg) | Scaled SAR1g (W/kg) |
|                                               | Bandwidth, RB    |                    | MHz        |                    |                   |                |              |                     |
|                                               | QPSK 20MHz 1RB   | Front Side         | 1745.0     | 25.07              | 25.5              | 1.104          | 0.831        | 0.917               |
|                                               | QPSK 20MHz 1RB   | Front Side         | 1720.0     | 24.38              | 24.5              | 1.028          | 0.863        | 0.887               |
| 4.                                            | QPSK 20MHz 1RB   | Front Side         | 1732.5     | 24.04              | 24.5              | 1.112          | 0.859        | <b>0.955</b>        |
|                                               | QPSK 20MHz 50%RB | Front Side         | 1745.0     | 25.07              | 25.5              | 1.104          | 0.731        | 0.807               |
|                                               | QPSK 20MHz 50%RB | Front Side         | 1720.0     | 24.38              | 24.5              | 1.028          | 0.698        | 0.718               |
|                                               | QPSK 20MHz 50%RB | Front Side         | 1732.5     | 24.04              | 24.5              | 1.112          | 0.743        | 0.826               |

| LTE Band 5–Near to Mouth SAR Test (Gap: 10mm) |                  |                       |           |                    |                   |                |              |                     |
|-----------------------------------------------|------------------|-----------------------|-----------|--------------------|-------------------|----------------|--------------|---------------------|
| Plot No.                                      | Mode             | Test Position<br>Body | Frequency | Output Power (dBm) | Rated Limit (dBm) | Scaling Factor | SAR1g (W/kg) | Scaled SAR1g (W/kg) |
|                                               | Bandwidth, RB    |                       | MHz       |                    |                   |                |              |                     |
| 5.                                            | QPSK 10MHz 1RB   | Front Side            | 844.0     | 25.09              | 25.5              | 1.099          | 0.224        | <b>0.246</b>        |
|                                               | QPSK 10MHz 50%RB | Front Side            | 844.0     | 25.09              | 25.5              | 1.099          | 0.196        | 0.215               |

| LTE Band 7–Near to Mouth SAR Test (Gap: 10mm) |                  |                       |           |                    |                   |                |              |                     |
|-----------------------------------------------|------------------|-----------------------|-----------|--------------------|-------------------|----------------|--------------|---------------------|
| Plot No.                                      | Mode             | Test Position<br>Body | Frequency | Output Power (dBm) | Rated Limit (dBm) | Scaling Factor | SAR1g (W/kg) | Scaled SAR1g (W/kg) |
|                                               | Bandwidth, RB    |                       | MHz       |                    |                   |                |              |                     |
| 6.                                            | QPSK 20MHz 1RB   | Front Side            | 2510      | 24.61              | 25.0              | 1.094          | 0.633        | <b>0.692</b>        |
|                                               | QPSK 20MHz 50%RB | Front Side            | 2510      | 24.61              | 25.0              | 1.094          | 0.562        | 0.615               |

| LTE Band 12–Near to Mouth SAR Test (Gap: 10mm) |                  |                       |           |                    |                   |                |              |                     |
|------------------------------------------------|------------------|-----------------------|-----------|--------------------|-------------------|----------------|--------------|---------------------|
| Plot No.                                       | Mode             | Test Position<br>Body | Frequency | Output Power (dBm) | Rated Limit (dBm) | Scaling Factor | SAR1g (W/kg) | Scaled SAR1g (W/kg) |
|                                                | Bandwidth, RB    |                       | MHz       |                    |                   |                |              |                     |
| 7.                                             | QPSK 10MHz 1RB   | Front Side            | 704.0     | 24.82              | 25.0              | 1.042          | 0.238        | <b>0.248</b>        |
|                                                | QPSK 10MHz 50%RB | Front Side            | 704.0     | 24.82              | 25.0              | 1.042          | 0.178        | 0.186               |

**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.

**Wrist-worn SAR**

| <b>GSM850 –Wrist-worn SAR Test (Gap: 0mm)</b> |          |                    |           |       |                    |                   |                |                |                       |
|-----------------------------------------------|----------|--------------------|-----------|-------|--------------------|-------------------|----------------|----------------|-----------------------|
| Plot No.                                      | Mode     | Test Position Body | Frequency |       | Output Power (dBm) | Rated Limit (dBm) | Scaling Factor | SAR10 g (W/kg) | Scaled SAR10 g (W/kg) |
|                                               |          |                    | CH.       | MHz   |                    |                   |                |                |                       |
| 8.                                            | GPRS_3TX | Back Side          | 128       | 824.2 | 31.96              | 32.0              | 1.009          | 0.844          | <b>0.852</b>          |

| <b>GSM1900 –Wrist-worn SAR Test (Gap: 0mm)</b> |          |                    |           |      |                    |                   |                |                |                       |
|------------------------------------------------|----------|--------------------|-----------|------|--------------------|-------------------|----------------|----------------|-----------------------|
| Plot No.                                       | Mode     | Test Position Body | Frequency |      | Output Power (dBm) | Rated Limit (dBm) | Scaling Factor | SAR10 g (W/kg) | Scaled SAR10 g (W/kg) |
|                                                |          |                    | CH.       | MHz  |                    |                   |                |                |                       |
| 9.                                             | GPRS_3TX | Back Side          | 661       | 1880 | 26.48              | 26.5              | 1.005          | 1.025          | <b>1.030</b>          |

| LTE Band 2–Wrist-worn SAR Test (Gap: 0mm) |                  |                       |               |                    |                   |                |                |                       |
|-------------------------------------------|------------------|-----------------------|---------------|--------------------|-------------------|----------------|----------------|-----------------------|
| Plot No.                                  | Mode             | Test Position<br>Body | Freque<br>ncy | Output Power (dBm) | Rated Limit (dBm) | Scaling Factor | SAR10 g (W/kg) | Scaled SAR10 g (W/kg) |
|                                           | Bandwidth, RB    |                       | MHz           |                    |                   |                |                |                       |
| 10.                                       | QPSK 20MHz 1RB   | Back Side             | 1860.0        | 24.51              | 25.0              | 1.119          | 1.446          | <b>1.619</b>          |
|                                           | QPSK 20MHz 50%RB | Back Side             | 1860.0        | 24.51              | 25.0              | 1.119          | 1.308          | 1.464                 |

| LTE Band 4–Wrist-worn SAR Test (Gap: 0mm) |                  |                       |            |                    |                   |                |                |                       |
|-------------------------------------------|------------------|-----------------------|------------|--------------------|-------------------|----------------|----------------|-----------------------|
| Plot No.                                  | Mode             | Test Position<br>Body | Freque ncy | Output Power (dBm) | Rated Limit (dBm) | Scaling Factor | SAR10 g (W/kg) | Scaled SAR10 g (W/kg) |
|                                           | Bandwidth, RB    |                       | MHz        |                    |                   |                |                |                       |
| 11.                                       | QPSK 20MHz 1RB   | Back Side             | 1745.0     | 25.07              | 25.5              | 1.104          | 1.585          | 1.750                 |
|                                           | QPSK 20MHz 50%RB | Back Side             | 1745.0     | 25.07              | 25.5              | 1.104          | 1.285          | 1.419                 |

| LTE Band 5–Wrist-worn SAR Test (Gap: 0mm) |                  |                       |               |                    |                   |                |                |                       |
|-------------------------------------------|------------------|-----------------------|---------------|--------------------|-------------------|----------------|----------------|-----------------------|
| Plot No.                                  | Mode             | Test Position<br>Body | Freque<br>ncy | Output Power (dBm) | Rated Limit (dBm) | Scaling Factor | SAR10 g (W/kg) | Scaled SAR10 g (W/kg) |
|                                           | Bandwidth, RB    |                       | MHz           |                    |                   |                |                |                       |
| 12.                                       | QPSK 10MHz 1RB   | Back Side             | 844.0         | 25.09              | 25.5              | 1.099          | 0.870          | 0.956                 |
|                                           | QPSK 10MHz 50%RB | Back Side             | 844.0         | 25.09              | 25.5              | 1.099          | 0.656          | 0.721                 |

| LTE Band 7–Wrist-worn SAR Test (Gap: 0mm) |                  |                       |           |                       |                      |                |                   |                          |
|-------------------------------------------|------------------|-----------------------|-----------|-----------------------|----------------------|----------------|-------------------|--------------------------|
| Plot No.                                  | Mode             | Test Position<br>Body | Frequency | Output Power<br>(dBm) | Rated Limit<br>(dBm) | Scaling Factor | SAR10 g<br>(W/kg) | Scaled SAR10 g<br>(W/kg) |
|                                           | Bandwidth, RB    |                       | MHz       |                       |                      |                |                   |                          |
| 13.                                       | QPSK 20MHz 1RB   | Back Side             | 2510      | 24.61                 | 25.0                 | 1.094          | 0.852             | <b>0.932</b>             |
|                                           | QPSK 20MHz 50%RB | Back Side             | 2510      | 24.61                 | 25.0                 | 1.094          | 0.719             | 0.787                    |

| LTE Band 12–Wrist-worn y SAR Test (Gap: 0mm) |                  |                       |           |                       |                      |                |                   |                          |
|----------------------------------------------|------------------|-----------------------|-----------|-----------------------|----------------------|----------------|-------------------|--------------------------|
| Plot No.                                     | Mode             | Test Position<br>Body | Frequency | Output Power<br>(dBm) | Rated Limit<br>(dBm) | Scaling Factor | SAR10 g<br>(W/kg) | Scaled SAR10 g<br>(W/kg) |
|                                              | Bandwidth, RB    |                       | MHz       |                       |                      |                |                   |                          |
| 14.                                          | QPSK 10MHz 1RB   | Back Side             | 704.0     | 24.82                 | 25.0                 | 1.042          | 0.773             | <b>0.806</b>             |
|                                              | QPSK 10MHz 50%RB | Back Side             | 704.0     | 24.82                 | 25.0                 | 1.042          | 0.618             | 0.644                    |

**Remark:** Per 447498 D01 General RF Exposure Guidance v06, if the highest output channel SAR for each exposure position  $\leq 2.0$  W/kg other channels SAR tests are not necessary.

### Repeated SAR

**Remark:**

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

## 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 - Reflections                                             | E.6.1 | 0             | R              | $\sqrt{3}$ | 1                | 1                | 1.73           | 1.73            | $\infty$ |
| Probe positioner Mechanical Tolerance                                           | E.6.2 | 2.0           | R              | $\sqrt{3}$ | 1                | 1                | 1.15           | 1.15            | $\infty$ |
| Probe positioning with respect to Phantom Shell                                 | E.6.3 | 0.05          | R              | $\sqrt{3}$ | 1                | 1                | 0.03           | 0.03            | $\infty$ |
| Extrapolation, interpolation and integration Algorithms for Max. 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 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 thickness tolerances)                            | E.3.1 | 0.05          | R              | $\sqrt{3}$ | 1                | 1                | 0.03           | 0.03            | $\infty$ |
| Uncertainty in SAR correction for deviations in permittivity and 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 | 5.00  | R   | $\sqrt{3}$ | 0.64 | 0.43 | 1.85  | 1.24  | $\infty$ |
| Liquid conductivity - measurement uncertainty     | E.3.3 | 5.00  | N   | 1          | 0.64 | 0.43 | 3.20  | 2.15  | $\infty$ |
| Liquid permittivity - deviation from target value | E.3.2 | 0.37  | R   | $\sqrt{3}$ | 0.6  | 0.49 | 0.13  | 0.10  | $\infty$ |
| Liquid permittivity - measurement uncertainty     | E.3.3 | 10.00 | N   | 1          | 0.6  | 0.49 | 6.00  | 4.90  | $\infty$ |
| 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

For Head Liquid

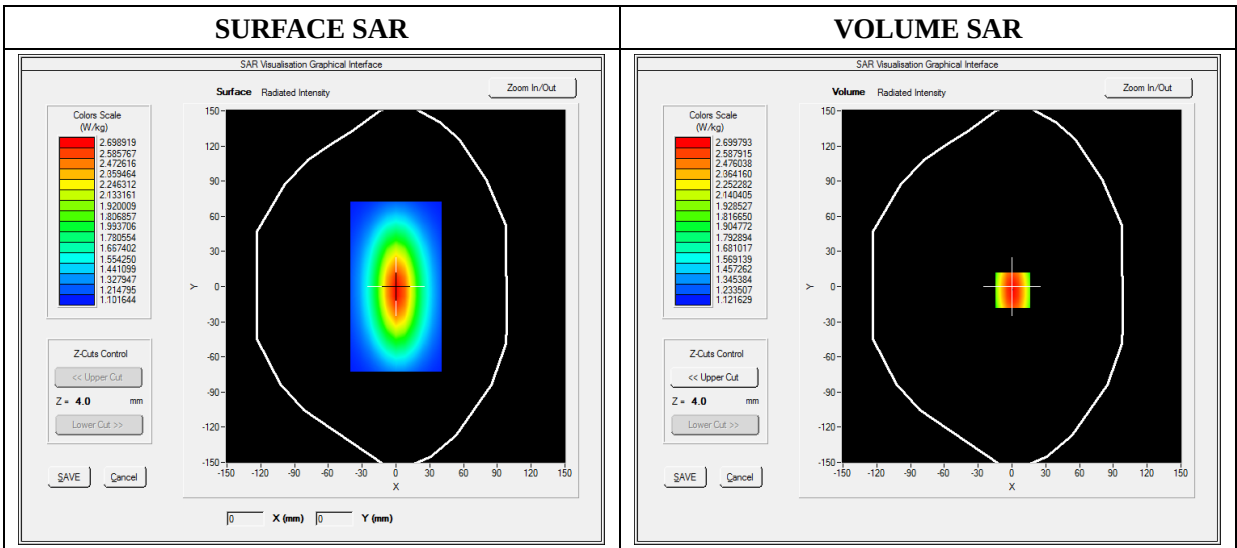
Type: Validation measurement (Fast, 75.00 %)  
Measurement duration: 7 minutes 21 seconds  
E-field Probe: SSE2 - SN 18/21 EPGO356; ConvF: 1.67; Calibrated: 2021-07-16

A. Experimental conditions

|                 |                      |
|-----------------|----------------------|
| Area Scan       | dx=8mm dy=8mm        |
| Zoom Scan       | dx=8mm dy=8mm dz=5mm |
| Phantom         | Validation plane     |
| Device Position | Dipole               |
| Band            | CW750                |
| Signal          | Duty Cycle 1:1       |

B. SAR Measurement Results

|                                   |            |
|-----------------------------------|------------|
| Frequency (MHz)                   | 750.000000 |
| Relative Permittivity (real part) | 41.320574  |
| Conductivity (S/m)                | 0.862373   |
| Power Variation (%)               | 0.038363   |
| Ambient Temperature               | 21.1       |
| Liquid Temperature                | 21.3       |

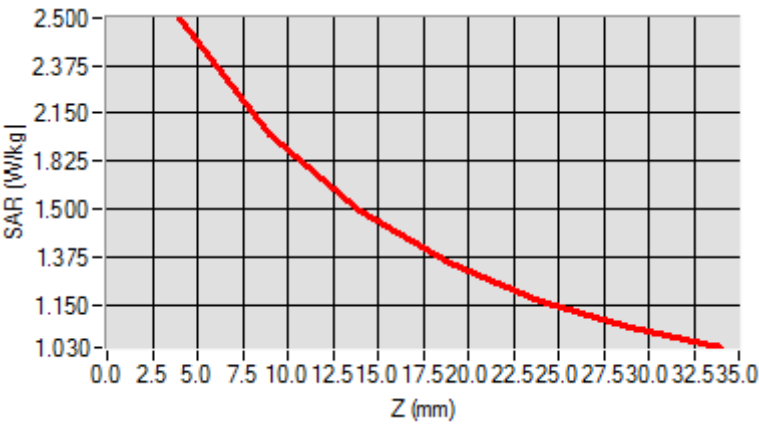


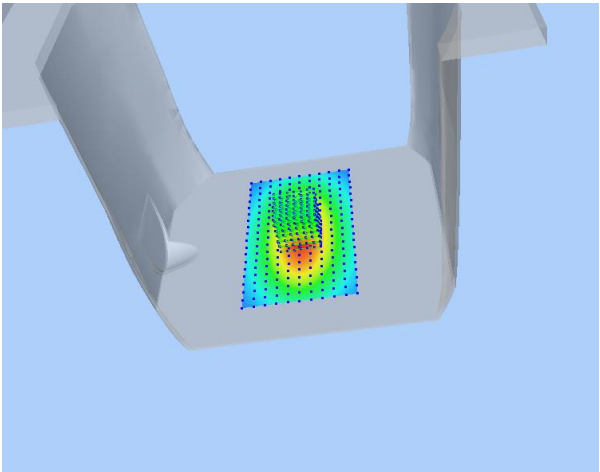
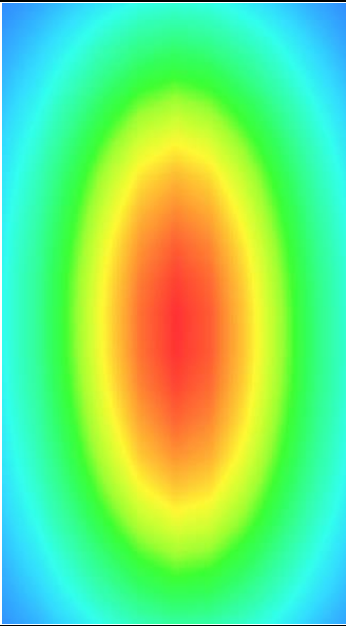
Maximum location: X=0.00, Y=0.00

|                |          |
|----------------|----------|
| SAR 10g (W/Kg) | 1.342744 |
| SAR 1g (W/Kg)  | 2.164534 |

Z Axis Scan

|            |        |        |        |        |        |        |        |
|------------|--------|--------|--------|--------|--------|--------|--------|
| Z (mm)     | 0.00   | 4.00   | 9.00   | 14.00  | 19.00  | 24.00  | 29.00  |
| SAR (W/Kg) | 0.0000 | 2.3634 | 1.8023 | 1.4523 | 1.2514 | 1.1005 | 1.0245 |



|                                                                                     |                                                                                      |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| 3D screen shot                                                                      | Hot spot position                                                                    |
|  |  |

# MEASUREMENT 2

For Head Liquid

Type: Validation measurement (Fast, 75.00 %)

Measurement duration: 7 minutes 21 seconds

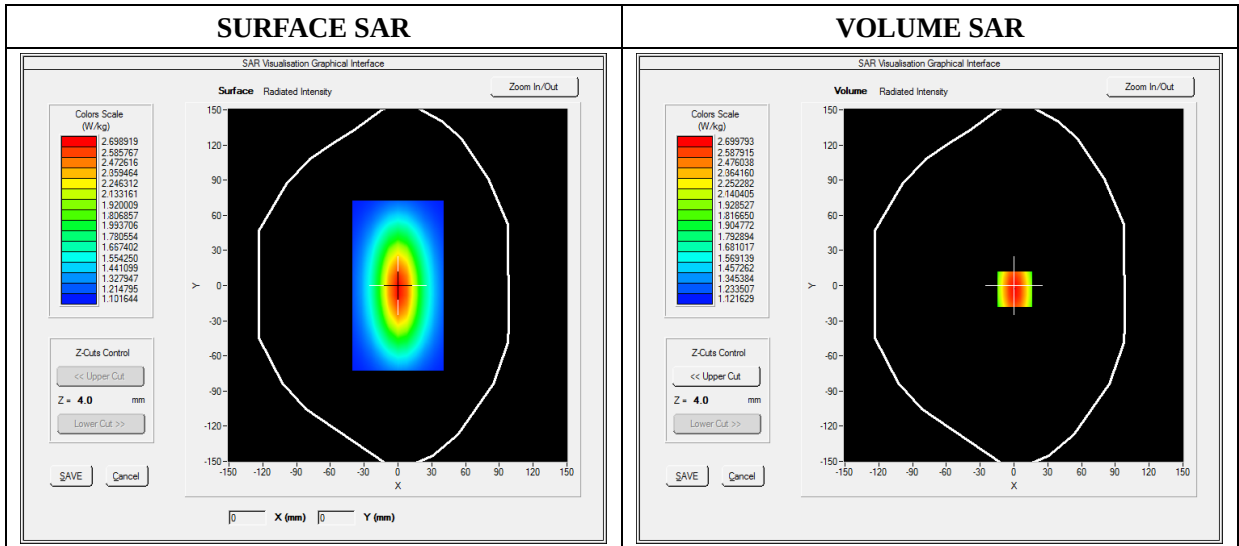
E-field Probe: SSE2 - SN 18/21 EPGO356; ConvF: 1.71; Calibrated: 2021-07-16

A. Experimental conditions

|                 |                      |
|-----------------|----------------------|
| Area Scan       | dx=8mm dy=8mm        |
| Zoom Scan       | dx=8mm dy=8mm dz=5mm |
| 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) | 41.110245  |
| Conductivity (S/m)                | 0.871245   |
| Power Variation (%)               | 0.038437   |
| Ambient Temperature               | 21.1       |
| Liquid Temperature                | 21.3       |

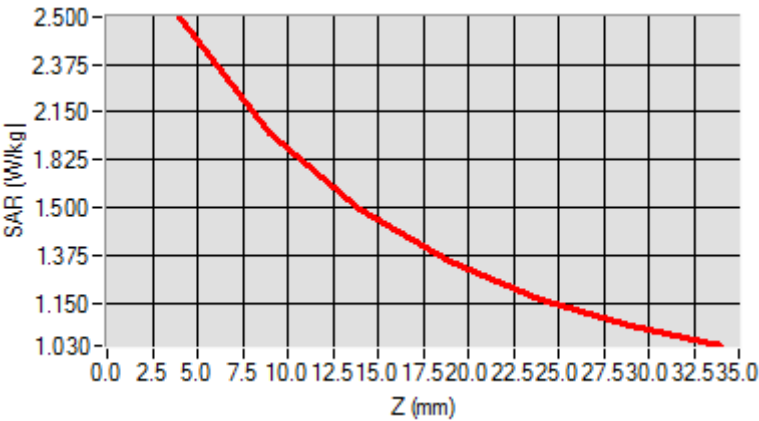


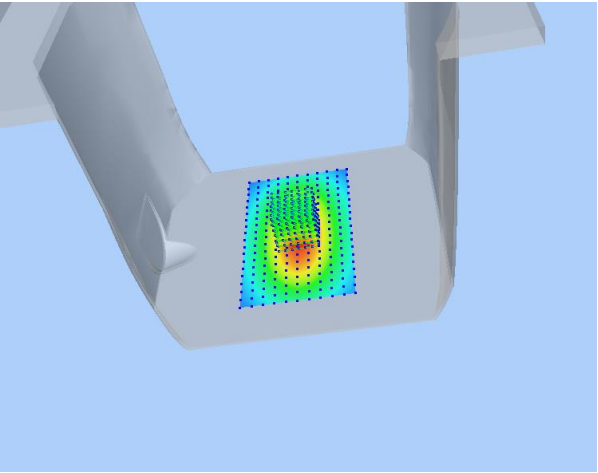
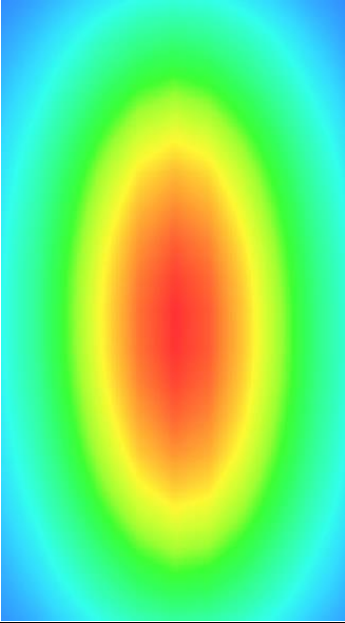
Maximum location: X=0.00, Y=0.00

|                |          |
|----------------|----------|
| SAR 10g (W/Kg) | 1.449489 |
| SAR 1g (W/Kg)  | 2.411253 |

Z Axis Scan

|            |        |        |        |        |        |        |        |
|------------|--------|--------|--------|--------|--------|--------|--------|
| Z (mm)     | 0.00   | 4.00   | 9.00   | 14.00  | 19.00  | 24.00  | 29.00  |
| SAR (W/Kg) | 0.0000 | 2.4900 | 1.8942 | 1.4811 | 1.3541 | 1.1123 | 1.0539 |



|                                                                                     |                                                                                      |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| 3D screen shot                                                                      | Hot spot position                                                                    |
|  |  |

MEASUREMENT 3

For Head Liquid

Type: Validation measurement (Fast, 75.00 %)

Measurement duration: 12 minutes 21 seconds

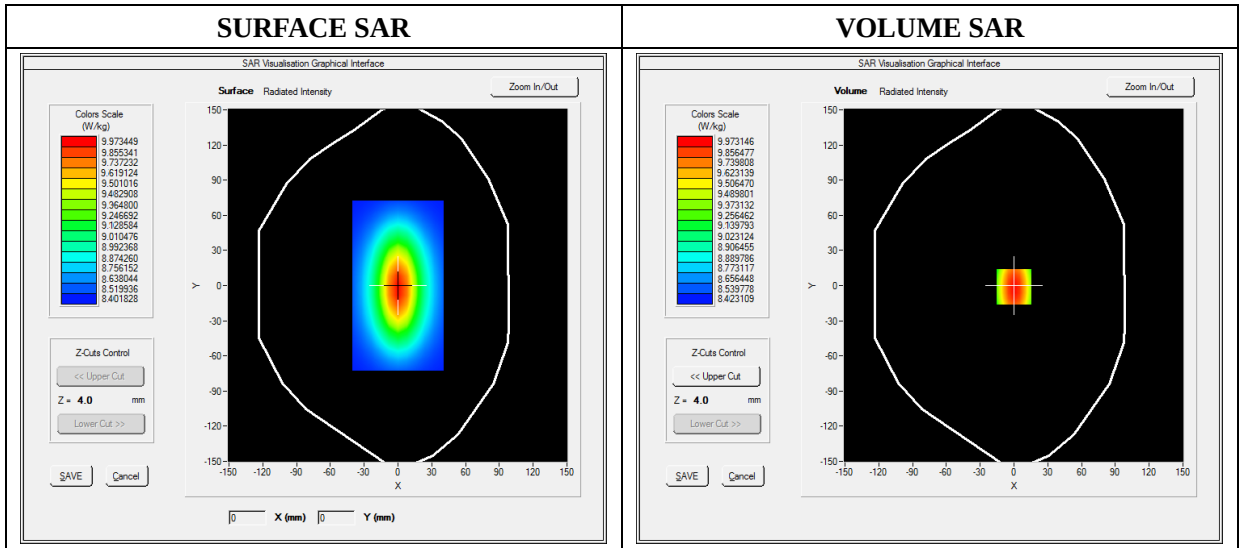
E-field Probe: SSE2 - SN 18/21 EPGO356; ConvF: 2.11; Calibrated: 2021-07-16

A. Experimental conditions

|                 |                        |
|-----------------|------------------------|
| Area Scan       | dx=8mm dy=8mm          |
| Zoom Scan       | dx=8mm dy=8mm dz=5mm   |
| 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) | 39.024890   |
| Conductivity (S/m)                | 1.371250    |
| Power Variation (%)               | 1.401232    |
| Ambient Temperature               | 21.1        |
| Liquid Temperature                | 21.2        |

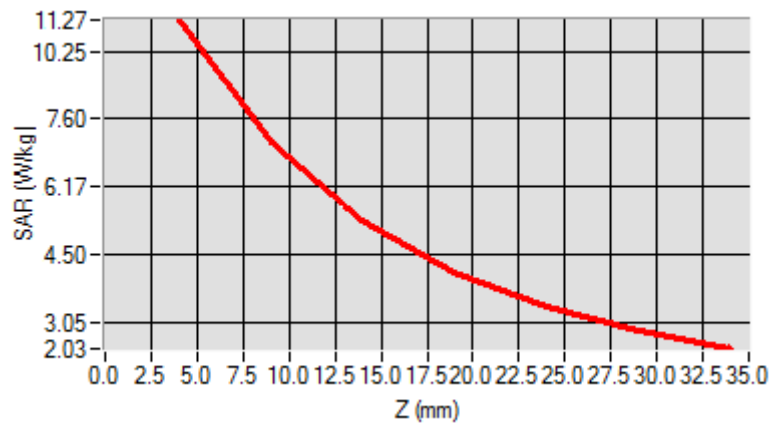


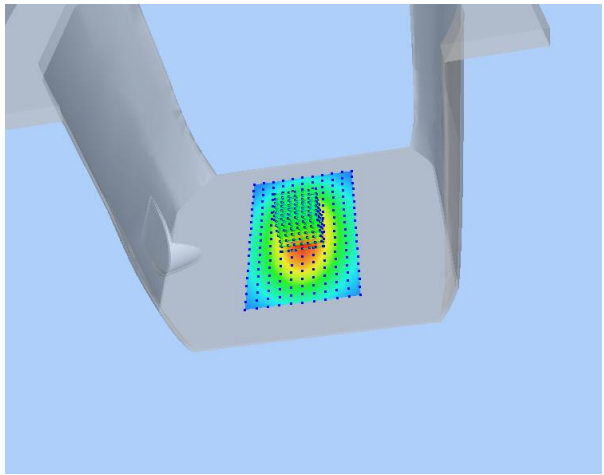
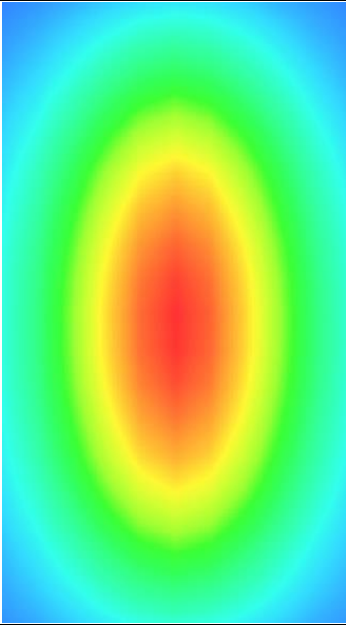
Maximum location: X=0.00, Y=0.00

|                |          |
|----------------|----------|
| SAR 10g (W/Kg) | 5.071252 |
| SAR 1g (W/Kg)  | 9.611250 |

Z Axis Scan

|            |        |         |        |        |       |        |        |
|------------|--------|---------|--------|--------|-------|--------|--------|
| Z (mm)     | 0.00   | 4.00    | 9.00   | 14.00  | 19.00 | 24.00  | 29.00  |
| SAR (W/Kg) | 0.0000 | 10.3455 | 7.1125 | 5.1026 | 3.425 | 3.0242 | 2.1125 |



|                                                                                     |                                                                                      |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| 3D screen shot                                                                      | Hot spot position                                                                    |
|  |  |

# MEASUREMENT 4

For Head Liquid

Type: Validation measurement (Fast, 75.00 %)

Measurement duration: 12 minutes 21 seconds

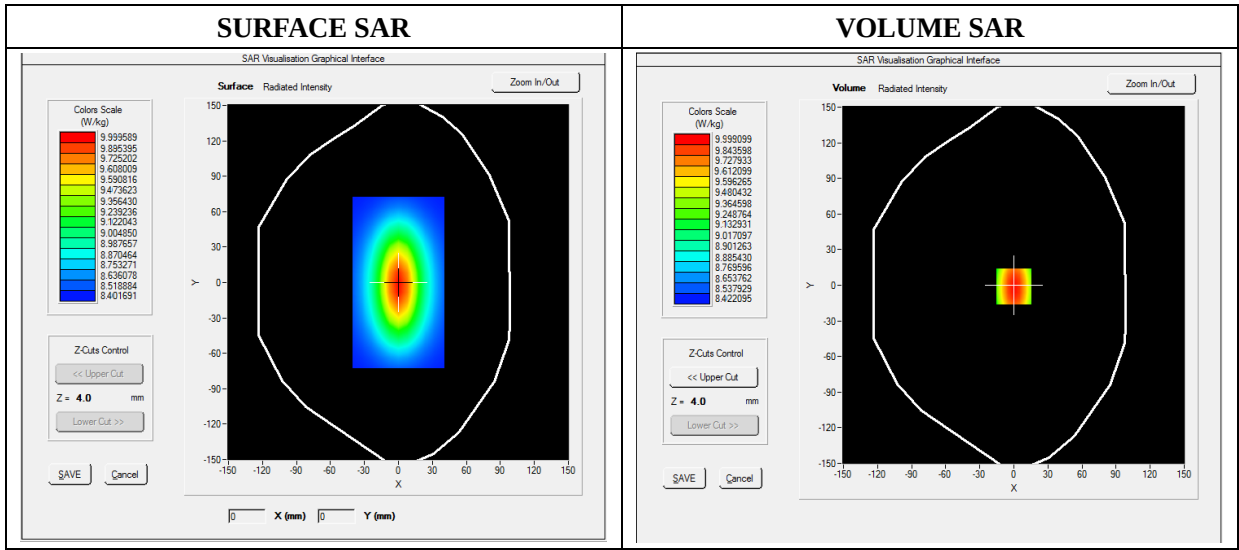
E-field Probe: SSE2 - SN 18/21 EPGO356; ConvF: 2.21; Calibrated: 2021-07-16

A. Experimental conditions

|                 |                      |
|-----------------|----------------------|
| Area Scan       | dx=8mm dy=8mm        |
| Zoom Scan       | dx=8mm dy=8mm dz=5mm |
| Phantom         | Validation plane     |
| Device Position | Dipole               |
| Band            | CW1900               |
| Signal          | Duty Cycle 1:1       |

B. SAR Measurement Results

|                                   |             |
|-----------------------------------|-------------|
| Frequency (MHz)                   | 1900.000000 |
| Relative Permittivity (real part) | 38.560124   |
| Conductivity (S/m)                | 1.380369    |
| Power Variation (%)               | 1.022540    |
| Ambient Temperature               | 21.1        |
| Liquid Temperature                | 21.3        |

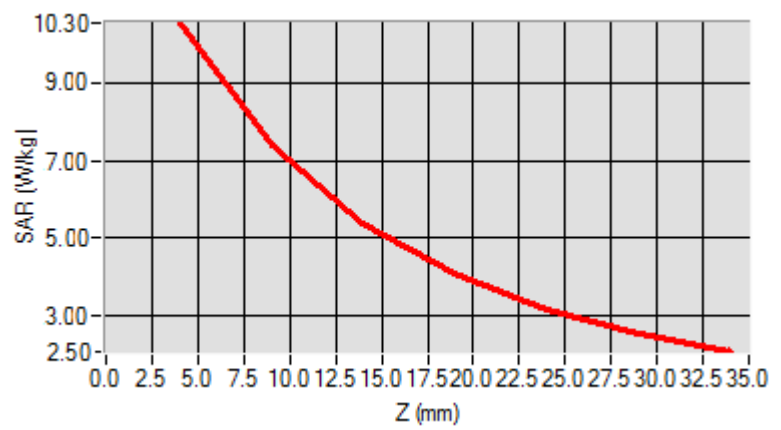


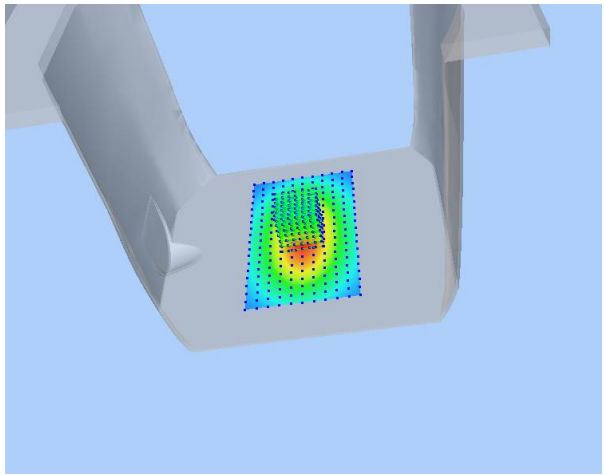
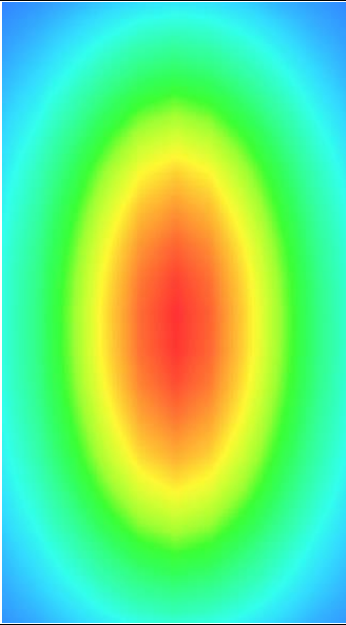
Maximum location: X=0.00, Y=0.00

|                |          |
|----------------|----------|
| SAR 10g (W/Kg) | 5.174526 |
| SAR 1g (W/Kg)  | 9.913214 |

Z Axis Scan

|            |        |         |        |        |        |        |        |
|------------|--------|---------|--------|--------|--------|--------|--------|
| Z (mm)     | 0.00   | 4.00    | 9.00   | 14.00  | 19.00  | 24.00  | 29.00  |
| SAR (W/Kg) | 0.0000 | 10.2354 | 6.8400 | 5.0121 | 4.1189 | 3.0522 | 2.8424 |



|                                                                                     |                                                                                      |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| 3D screen shot                                                                      | Hot spot position                                                                    |
|  |  |

MEASUREMENT 5

For Head Liquid

Type: Validation measurement (Fast, 75.00 %)

Measurement duration: 12 minutes 21 seconds

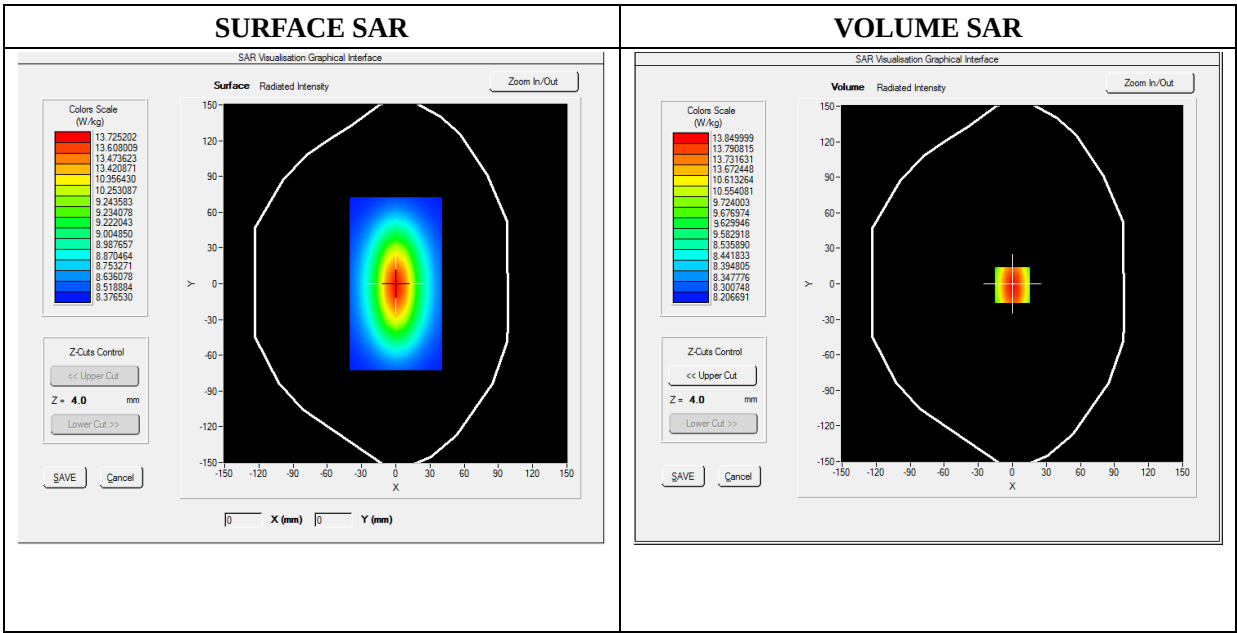
E-field Probe: SSE2 - SN 18/21 EPGO356; ConvF: 2.22; Calibrated: 2021-07-16

A. Experimental conditions

|                 |                  |
|-----------------|------------------|
| Area Scan       | dx=8mm dy=8mm    |
| Phantom         | Validation plane |
| Device Position | Dipole           |
| Band            | CW2600           |
| Signal          | Duty Cycle 1:1   |

B. SAR Measurement Results

|                                   |             |
|-----------------------------------|-------------|
| Frequency (MHz)                   | 2600.000000 |
| Relative Permittivity (real part) | 39.221092   |
| Conductivity (S/m)                | 1.990182    |
| Power Variation (%)               | 1.028221    |
| Ambient Temperature               | 21.1        |
| Liquid Temperature                | 21.2        |

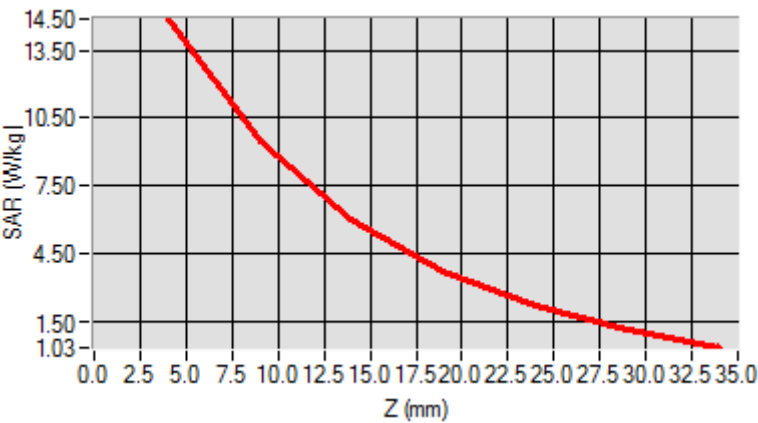


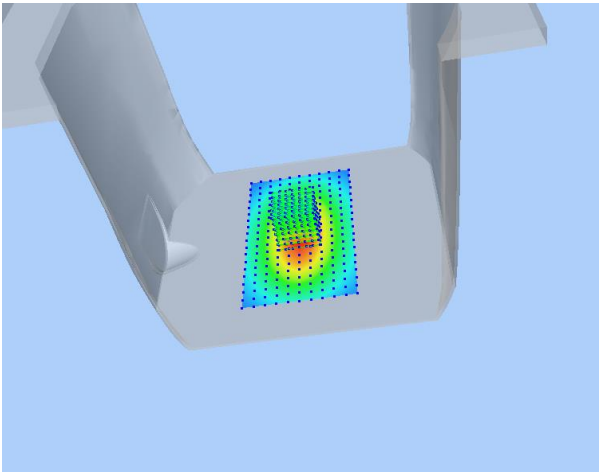
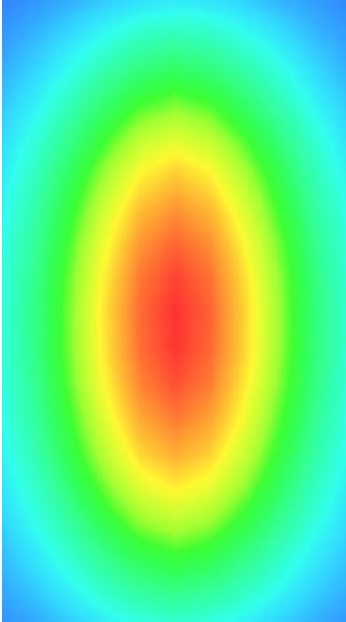
Maximum location: X=0.00, Y=0.00

|                |           |
|----------------|-----------|
| SAR 10g (W/Kg) | 6.270822  |
| SAR 1g (W/Kg)  | 13.670282 |

Z Axis Scan

|            |        |         |         |         |        |        |        |
|------------|--------|---------|---------|---------|--------|--------|--------|
| Z (mm)     | 0.00   | 4.00    | 9.00    | 14.00   | 19.00  | 24.00  | 29.00  |
| SAR (W/Kg) | 0.0000 | 14.0426 | 12.1354 | 10.2965 | 7.4854 | 5.9354 | 4.5186 |



|                                                                                     |                                                                                      |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| 3D screen shot                                                                      | Hot spot position                                                                    |
|  |  |

Annex B. Plots of SAR Measurement

MEASUREMENT 1

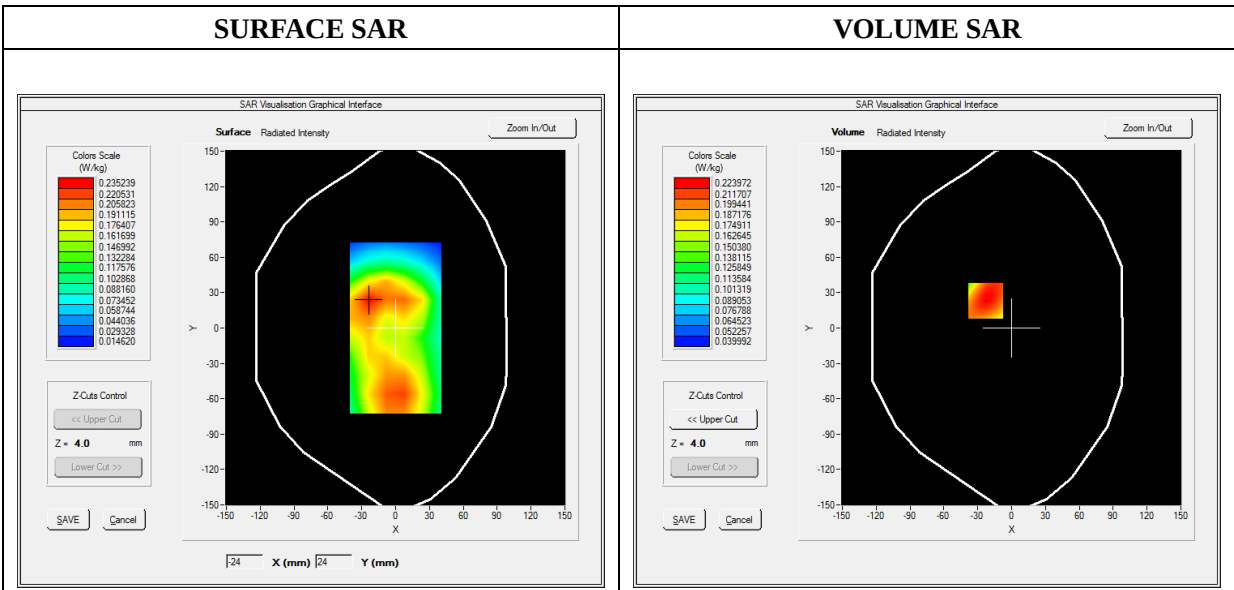
Type: Phone measurement (Complete)  
Date of measurement: 2022-04-18  
Measurement duration: 11 minutes 48 seconds

A. Experimental conditions

|                 |                               |
|-----------------|-------------------------------|
| Area Scan       | sam_direct_droit2_surf8mm.txt |
| Phantom         | Flat Plane                    |
| Device Position | Front(Near to Mouth)          |
| Band            | GSM850                        |
| Channels        | Low                           |
| Signal          | TDMA (Crest factor: 8.0)      |

B. SAR Measurement Results

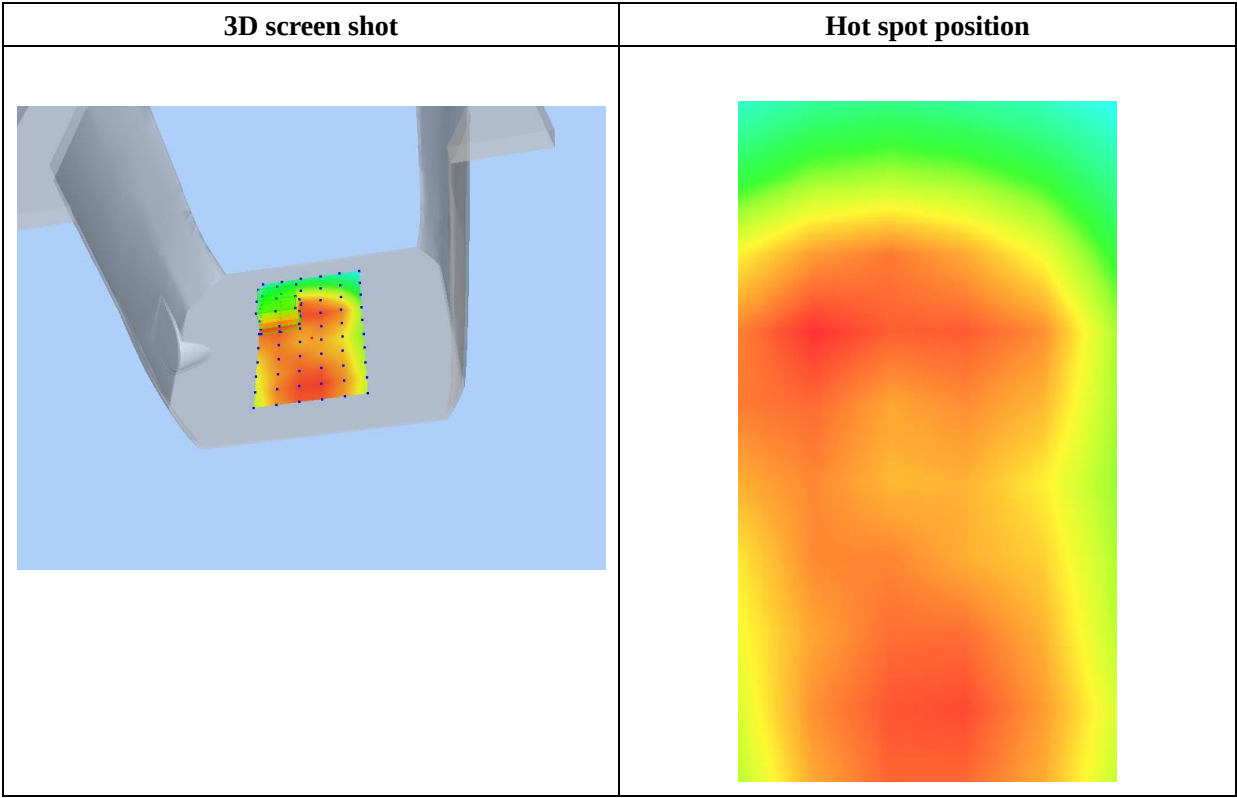
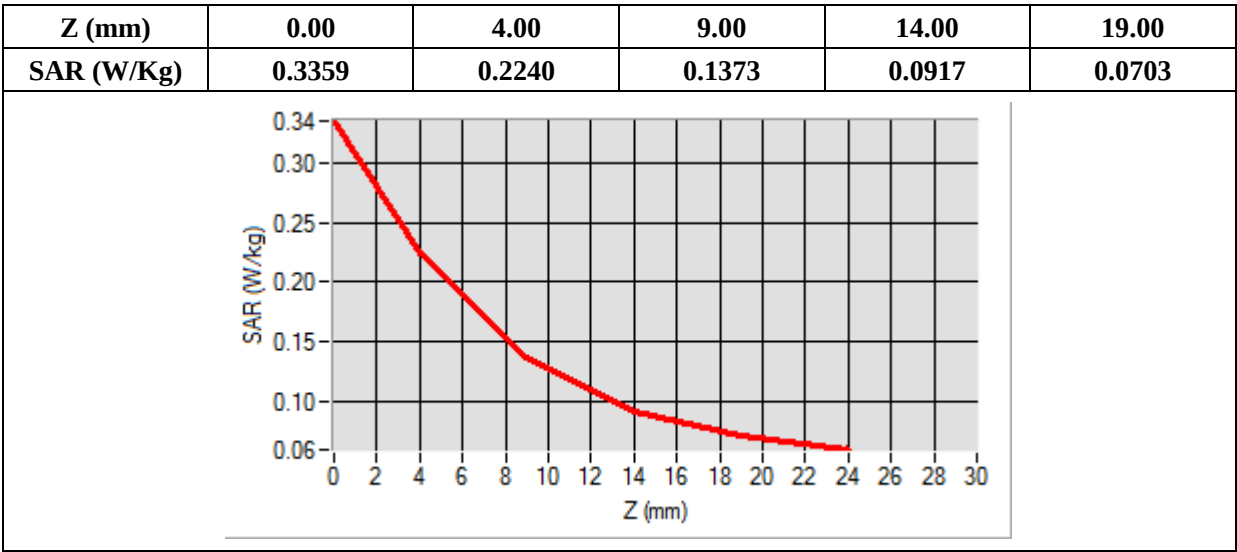
|                                   |            |
|-----------------------------------|------------|
| Frequency (MHz)                   | 824.200000 |
| Relative Permittivity (real part) | 41.110245  |
| Conductivity (S/m)                | 0.871245   |
| Power Variation (%)               | 1.144536   |
| Ambient Temperature               | 21.1       |
| Liquid Temperature                | 21.3       |



Maximum location: X=-23.00, Y=23.00

SAR Peak: 0.34 W/kg

|                |          |
|----------------|----------|
| SAR 10g (W/Kg) | 0.147898 |
| SAR 1g (W/Kg)  | 0.220233 |



MEASUREMENT 2

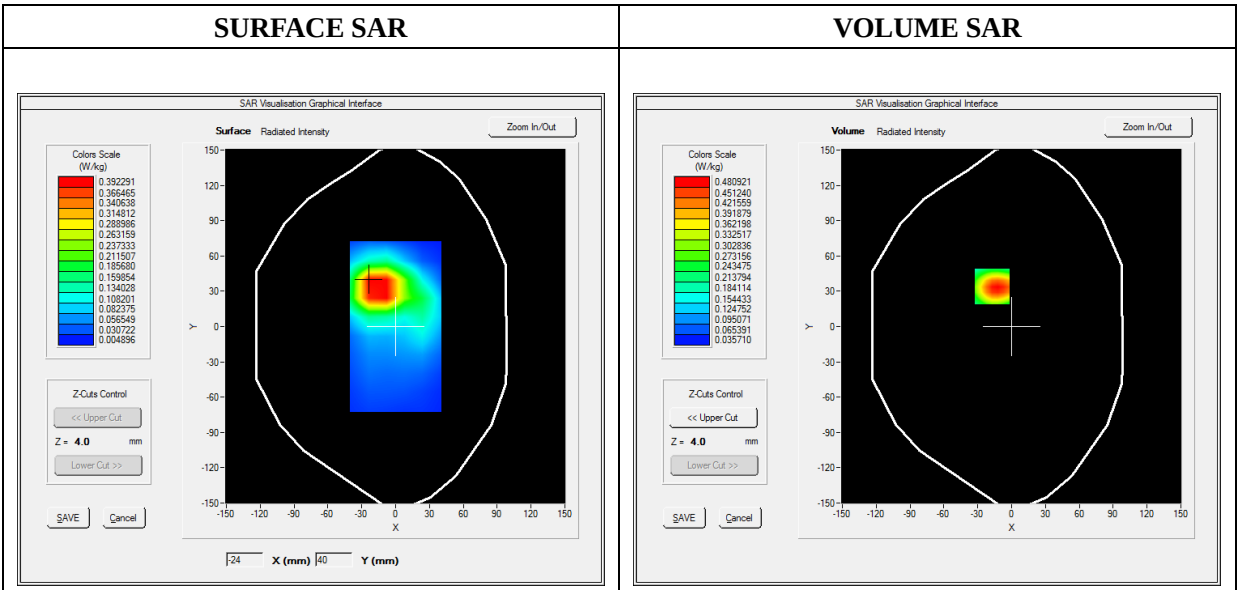
Type: Phone measurement (Complete)  
Date of measurement: 2022-04-19  
Measurement duration: 11 minutes 48 seconds

A. Experimental conditions

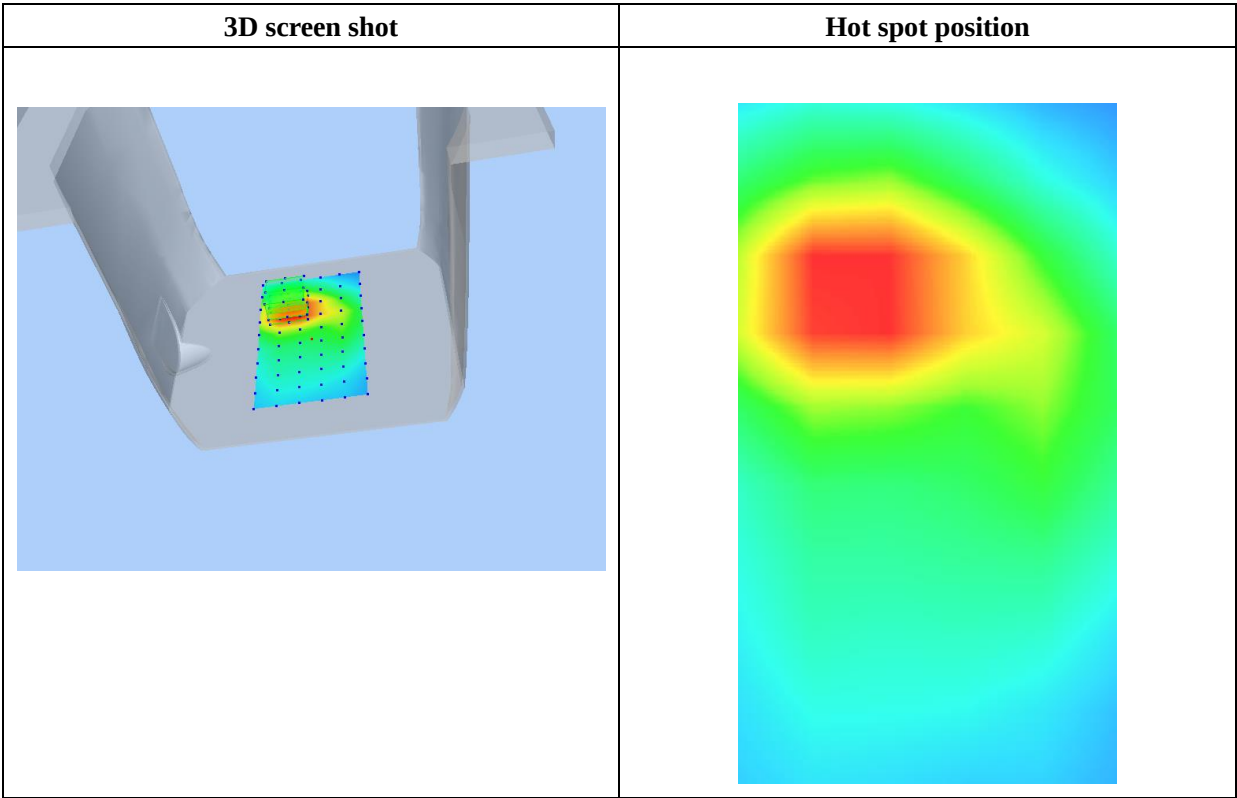
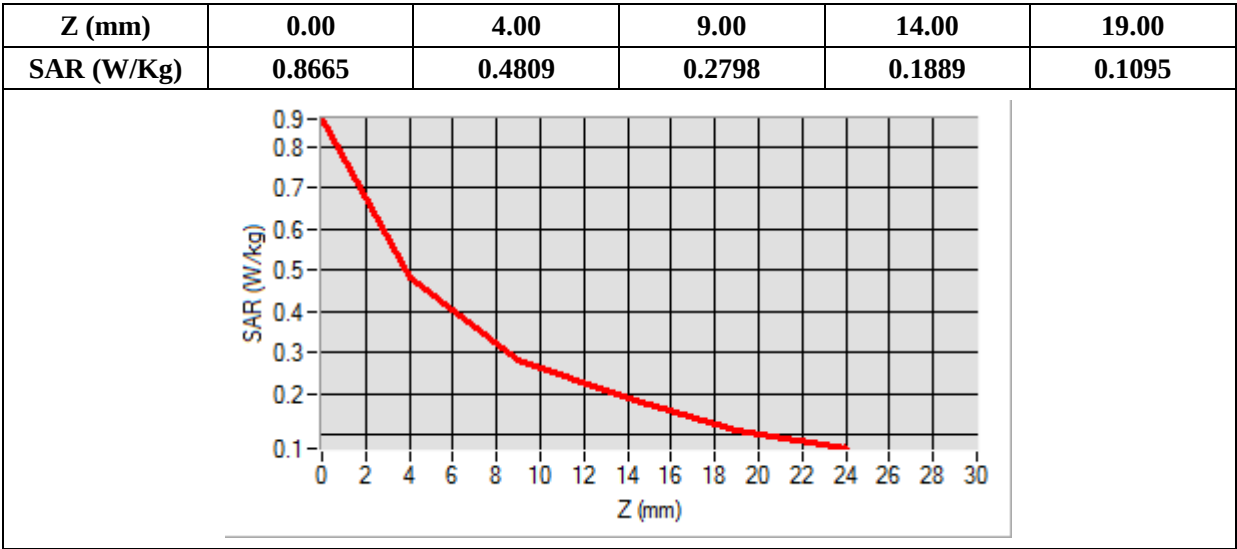
|                 |                               |
|-----------------|-------------------------------|
| Area Scan       | sam_direct_droit2_surf8mm.txt |
| Phantom         | Flat Plane                    |
| Device Position | Front(Near to Mouth)          |
| Band            | GSM1900                       |
| Channels        | High                          |
| Signal          | TDMA (Crest factor: 8.0)      |

B. SAR Measurement Results

|                                   |             |
|-----------------------------------|-------------|
| Frequency (MHz)                   | 1909.800000 |
| Relative Permittivity (real part) | 39.560124   |
| Conductivity (S/m)                | 1.380369    |
| Power Variation (%)               | 1.442440    |
| Ambient Temperature               | 21.1        |
| Liquid Temperature                | 21.3        |



|                |          |
|----------------|----------|
| SAR 10g (W/Kg) | 0.265672 |
| SAR 1g (W/Kg)  | 0.449543 |



MEASUREMENT 3

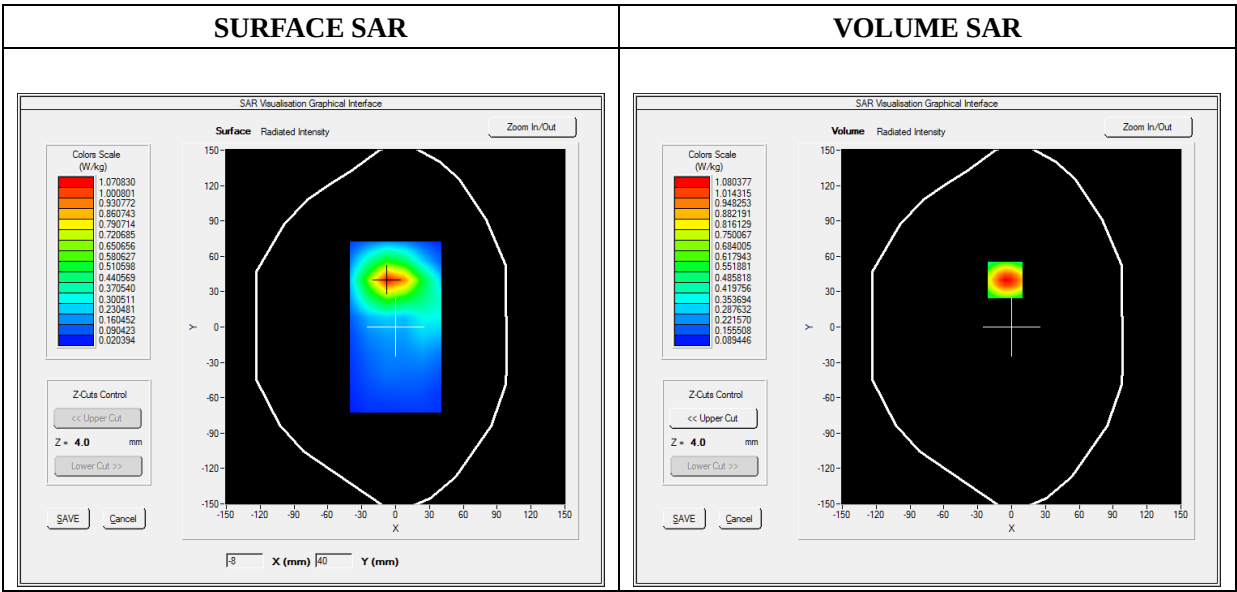
Type: Phone measurement (Complete)  
Date of measurement: 2022-04-19  
Measurement duration: 12 minutes 3 seconds

A. Experimental conditions

|                 |                               |
|-----------------|-------------------------------|
| Area Scan       | sam_direct_droit2_surf8mm.txt |
| Phantom         | Flat Plane                    |
| Device Position | Front(Near to Mouth)          |
| Band            | LTE Band 2                    |
| Channels        | QPSK, 20MHz, 1RB, Middle      |
| Signal          | Duty Cycle: 1:1               |

B. SAR Measurement Results

|                                   |             |
|-----------------------------------|-------------|
| Frequency (MHz)                   | 1880.000000 |
| Relative Permittivity (real part) | 39.560124   |
| Conductivity (S/m)                | 1.380369    |
| Power Variation (%)               | 1.536272    |
| Ambient Temperature               | 21.1        |
| Liquid Temperature                | 21.3        |

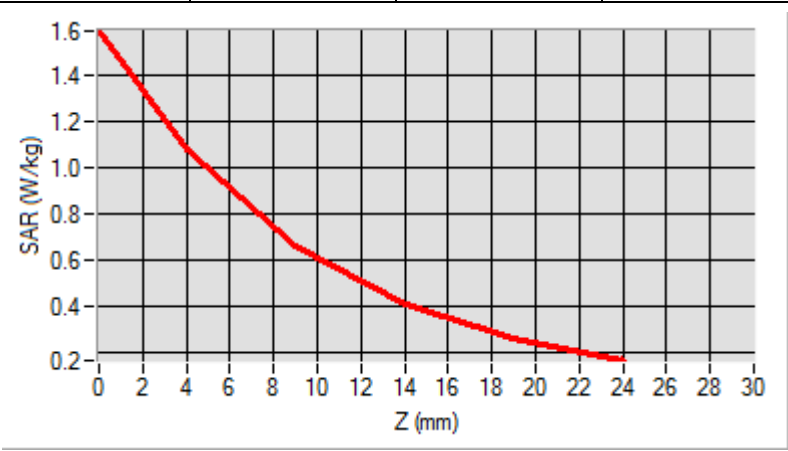


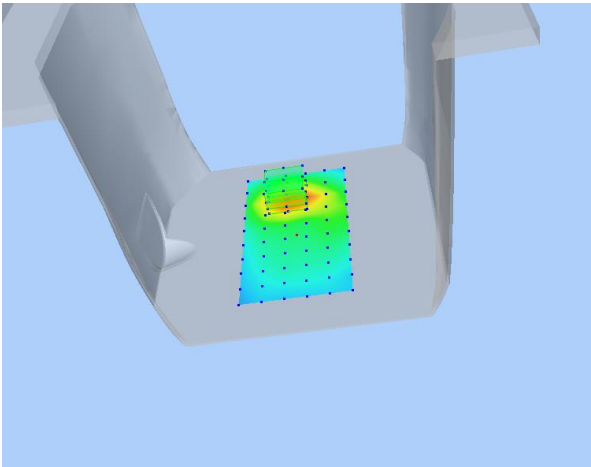
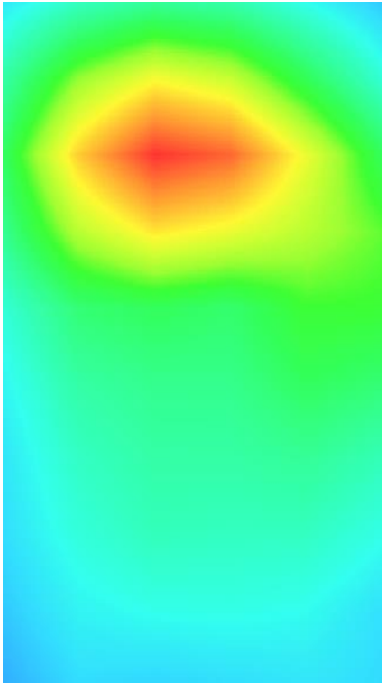
Maximum location: X=-6.00, Y=40.00  
SAR Peak: 1.59 W/kg

|                |          |
|----------------|----------|
| SAR 10g (W/Kg) | 0.594051 |
|----------------|----------|

|               |          |
|---------------|----------|
| SAR 1g (W/Kg) | 1.007120 |
|---------------|----------|

|            |        |        |        |        |        |
|------------|--------|--------|--------|--------|--------|
| Z (mm)     | 0.00   | 4.00   | 9.00   | 14.00  | 19.00  |
| SAR (W/Kg) | 1.5878 | 1.0804 | 0.6603 | 0.4097 | 0.2644 |



|                                                                                     |                                                                                      |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| 3D screen shot                                                                      | Hot spot position                                                                    |
|  |  |

MEASUREMENT 4

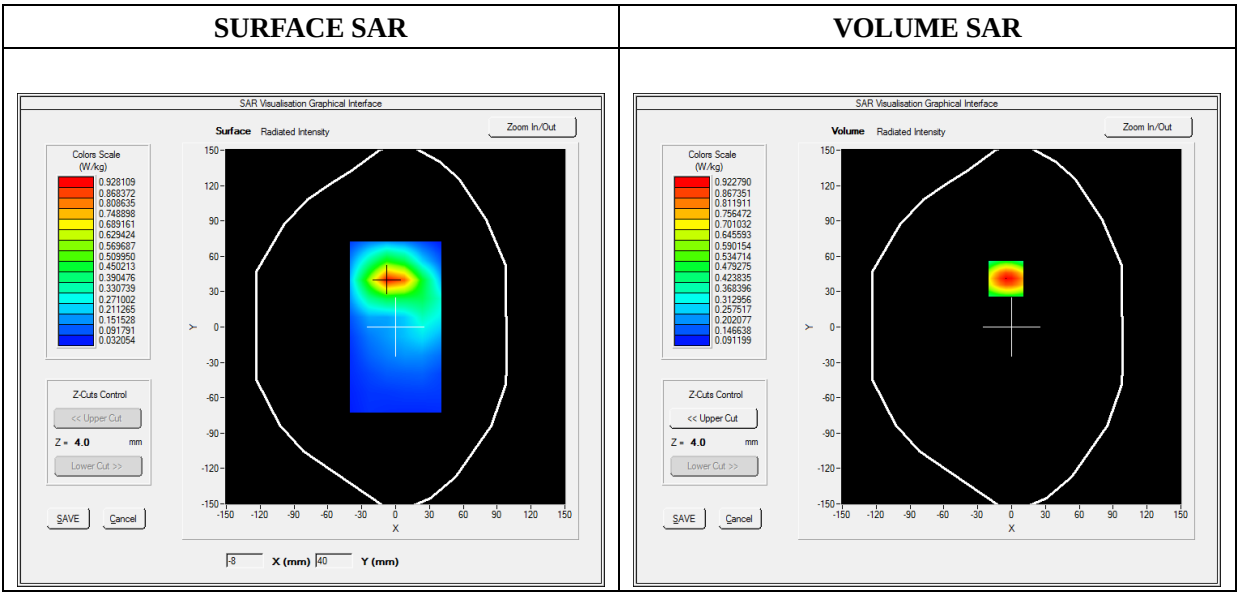
Type: Phone measurement (Complete)  
Date of measurement: 2022-04-19  
Measurement duration: 12 minutes 3 seconds

A. Experimental conditions

|                 |                               |
|-----------------|-------------------------------|
| Area Scan       | sam_direct_droit2_surf8mm.txt |
| Phantom         | Flat Plane                    |
| Device Position | Front(Near to Mouth)          |
| Band            | LTE Band 4                    |
| Channels        | QPSK, 20MHz, 1RB, Middle      |
| Signal          | Duty Cycle: 1:1               |

B. SAR Measurement Results

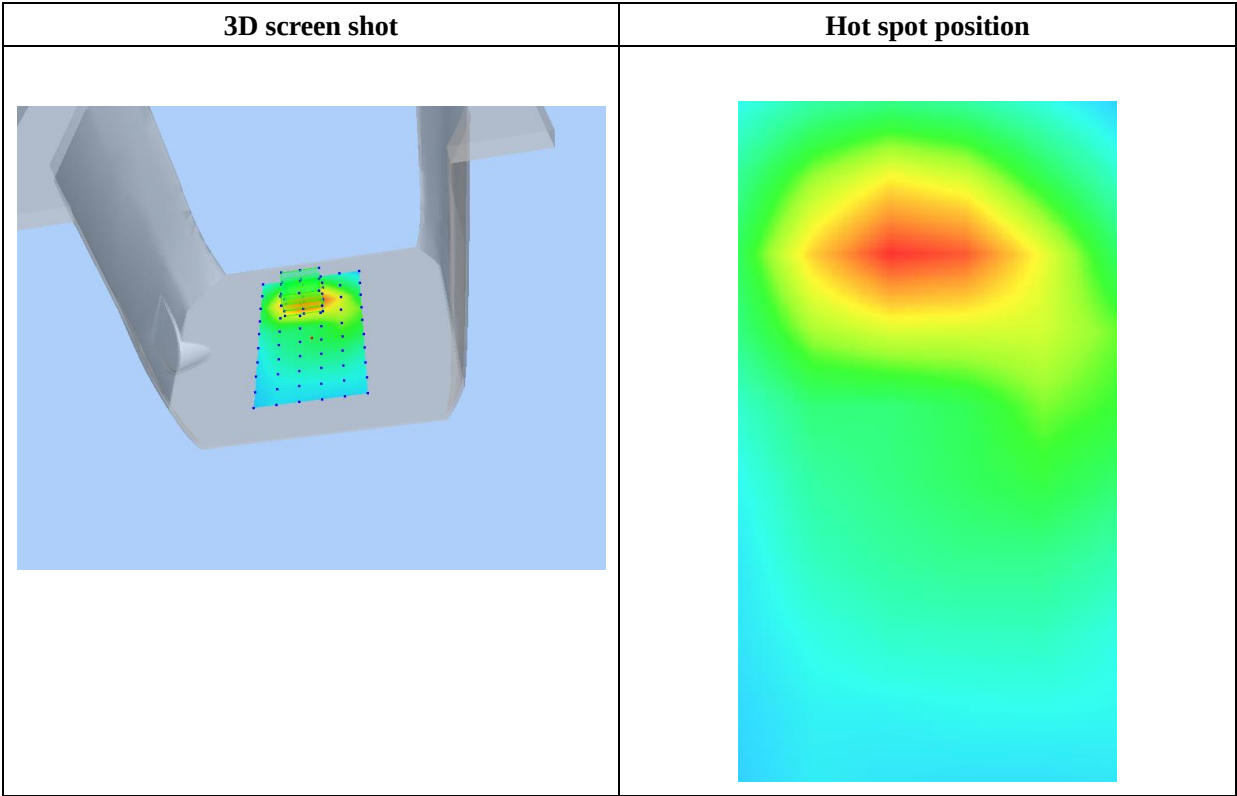
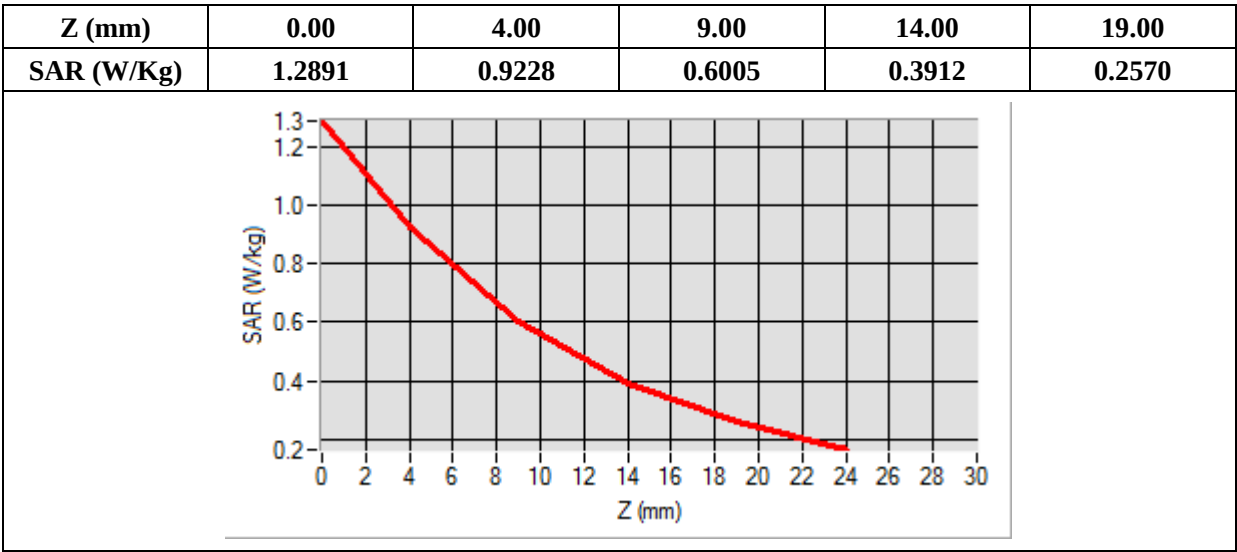
|                                   |             |
|-----------------------------------|-------------|
| Frequency (MHz)                   | 1732.500000 |
| Relative Permittivity (real part) | 39.620124   |
| Conductivity (S/m)                | 1.370369    |
| Power Variation (%)               | 1.536272    |
| Ambient Temperature               | 21.1        |
| Liquid Temperature                | 21.3        |



Maximum location: X=-5.00, Y=41.00

SAR Peak: 1.29 W/kg

|                |          |
|----------------|----------|
| SAR 10g (W/Kg) | 0.523566 |
| SAR 1g (W/Kg)  | 0.859224 |



## MEASUREMENT 5

Type: Phone measurement (Complete)

Date of measurement: 2022-04-18

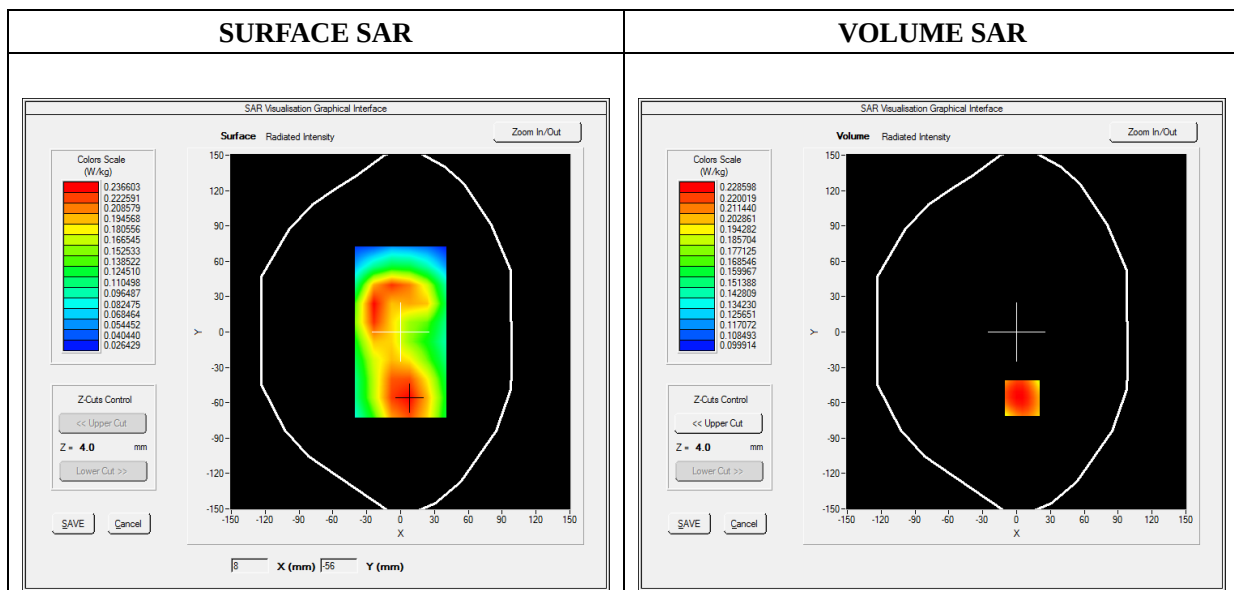
Measurement duration: 12 minutes 3 seconds

### A. Experimental conditions

|                 |                               |
|-----------------|-------------------------------|
| Area Scan       | sam_direct_droit2_surf8mm.txt |
| Phantom         | Flat Plane                    |
| Device Position | Front(Near to Mouth)          |
| Band            | LTE Band 5                    |
| Channels        | QPSK, 10MHz, 1RB, High        |
| Signal          | Duty Cycle 1:1                |

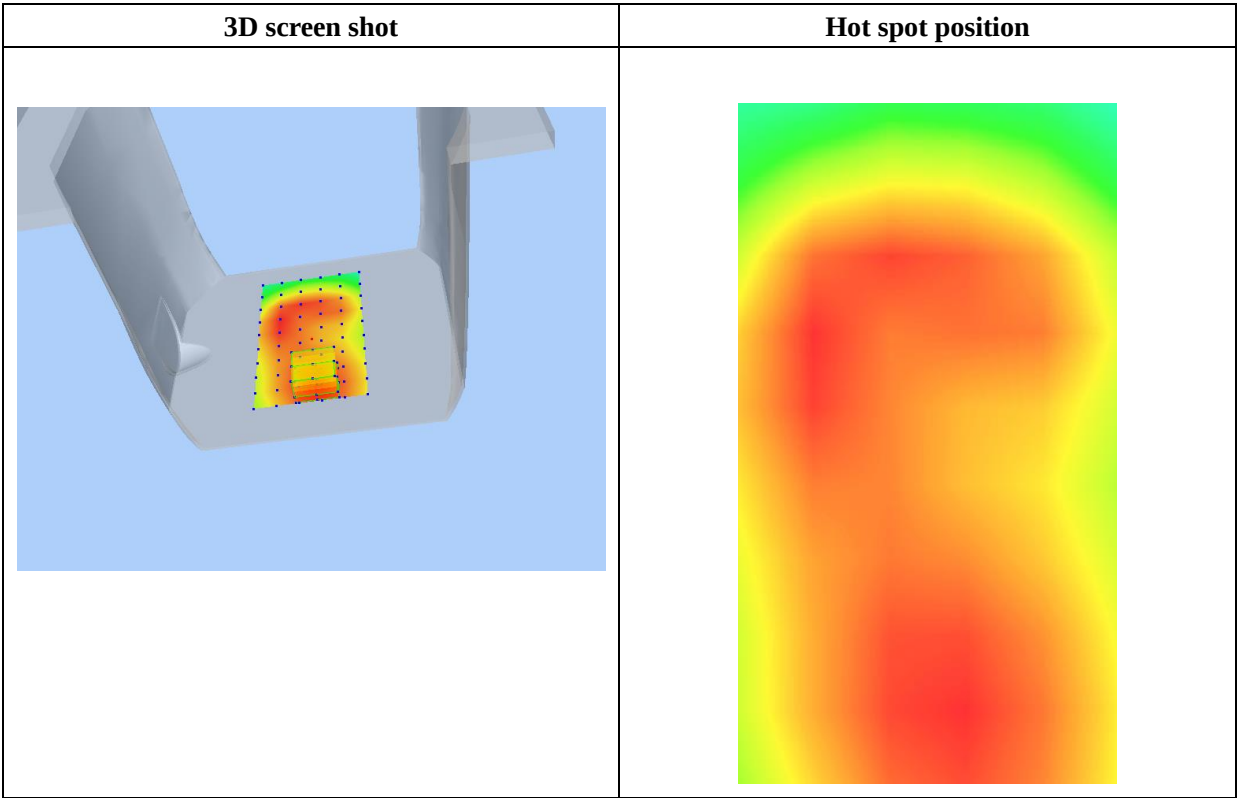
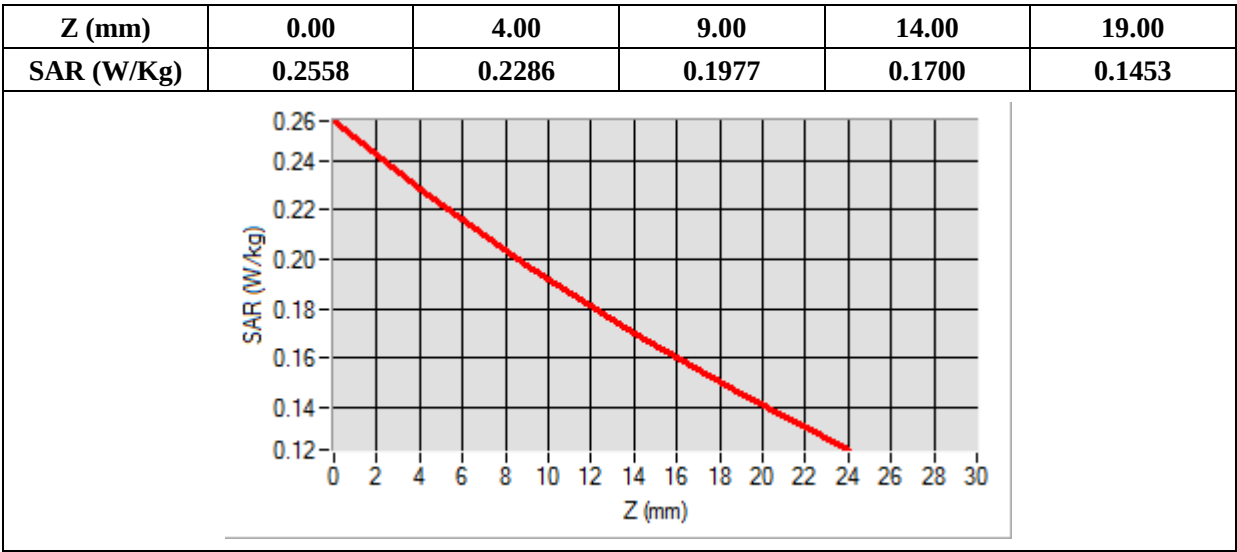
### B. SAR Measurement Results

|                                   |            |
|-----------------------------------|------------|
| Frequency (MHz)                   | 844.000000 |
| Relative Permittivity (real part) | 41.114890  |
| Conductivity (S/m)                | 0.871250   |
| Power Variation (%)               | 1.074628   |
| Ambient Temperature               | 21.1       |
| Liquid Temperature                | 21.2       |



SAR Peak: 0.26 W/kg

|                |          |
|----------------|----------|
| SAR 10g (W/Kg) | 0.184749 |
| SAR 1g (W/Kg)  | 0.223723 |



## MEASUREMENT 6

Type: Phone measurement (Complete)

Date of measurement: 2022-04-11

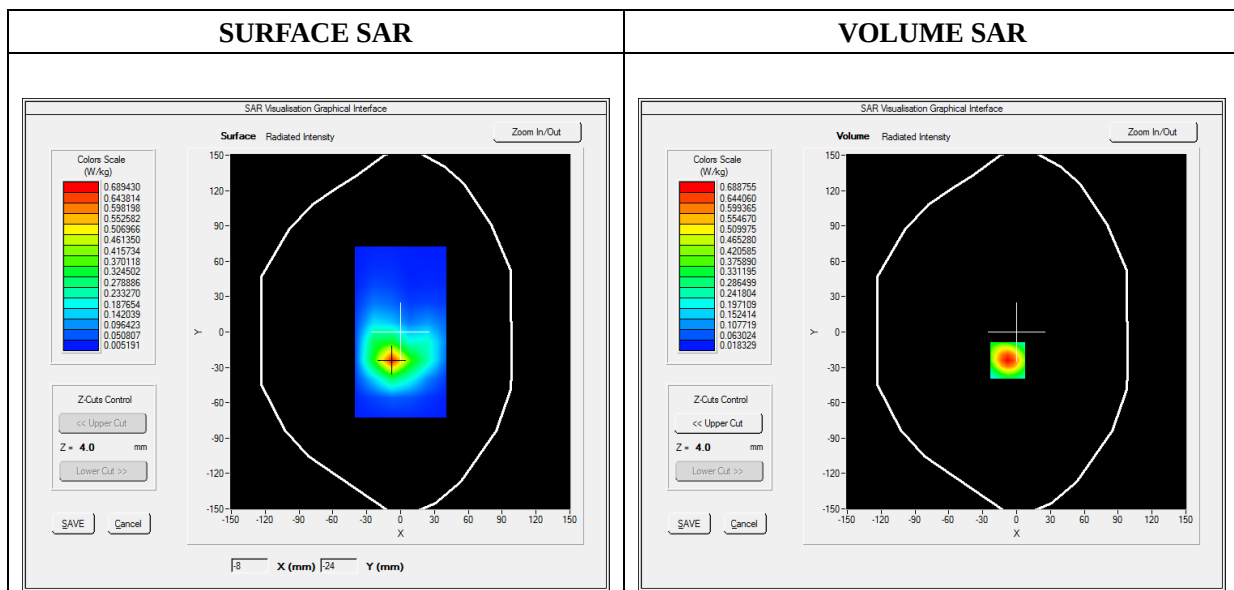
Measurement duration: 12 minutes 3 seconds

### A. Experimental conditions

|                 |                               |
|-----------------|-------------------------------|
| Area Scan       | sam_direct_droit2_surf8mm.txt |
| Phantom         | Flat Plane                    |
| Device Position | Front(Near to Mouth)          |
| Band            | LTE Band 7                    |
| Channels        | QPSK, 20MHz, 1RB, Low         |
| Signal          | Duty Cycle 1:1                |

### B. SAR Measurement Results

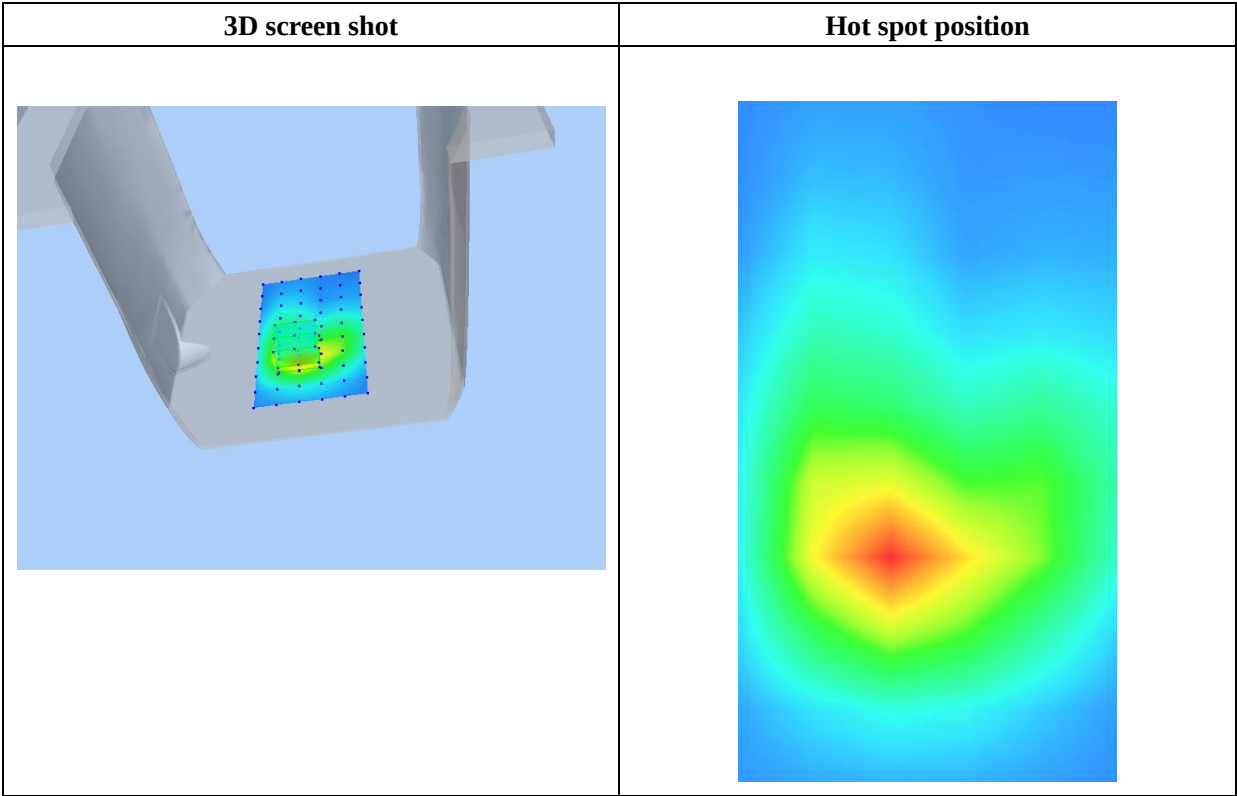
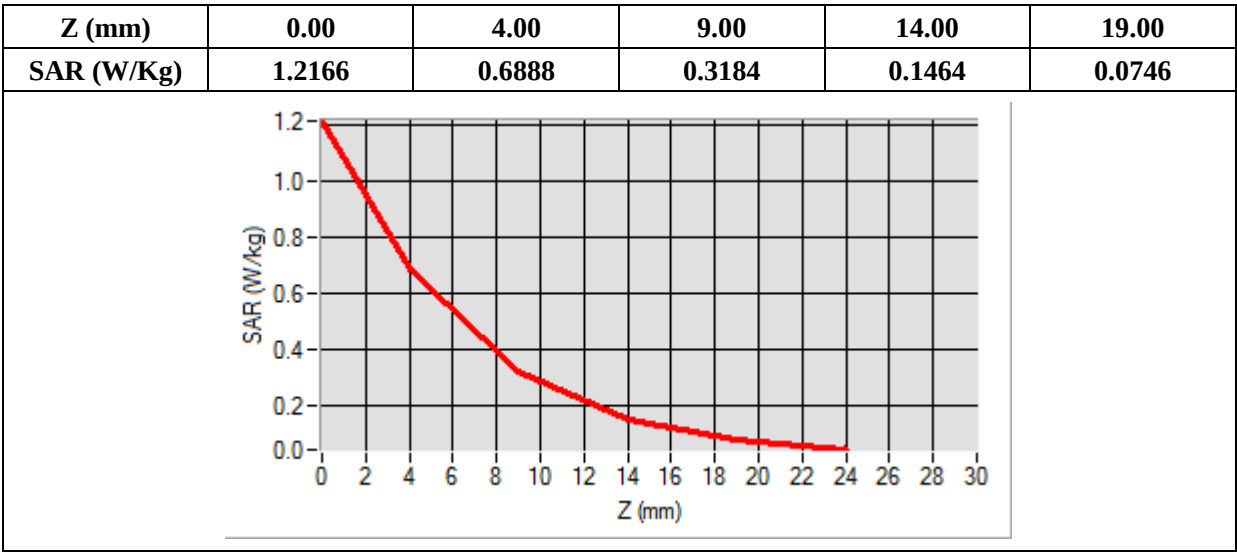
|                                   |             |
|-----------------------------------|-------------|
| Frequency (MHz)                   | 2510.000000 |
| Relative Permittivity (real part) | 39.221092   |
| Conductivity (S/m)                | 1.990182    |
| Power Variation (%)               | 0.924535    |
| Ambient Temperature               | 21.1        |
| Liquid Temperature                | 21.2        |



**Maximum location: X=-8.00, Y=-24.00**

SAR Peak: 1.21 W/kg

|                |          |
|----------------|----------|
| SAR 10g (W/Kg) | 0.310100 |
| SAR 1g (W/Kg)  | 0.633158 |



## MEASUREMENT 7

Type: Phone measurement (Complete)

Date of measurement: 2022-04-18

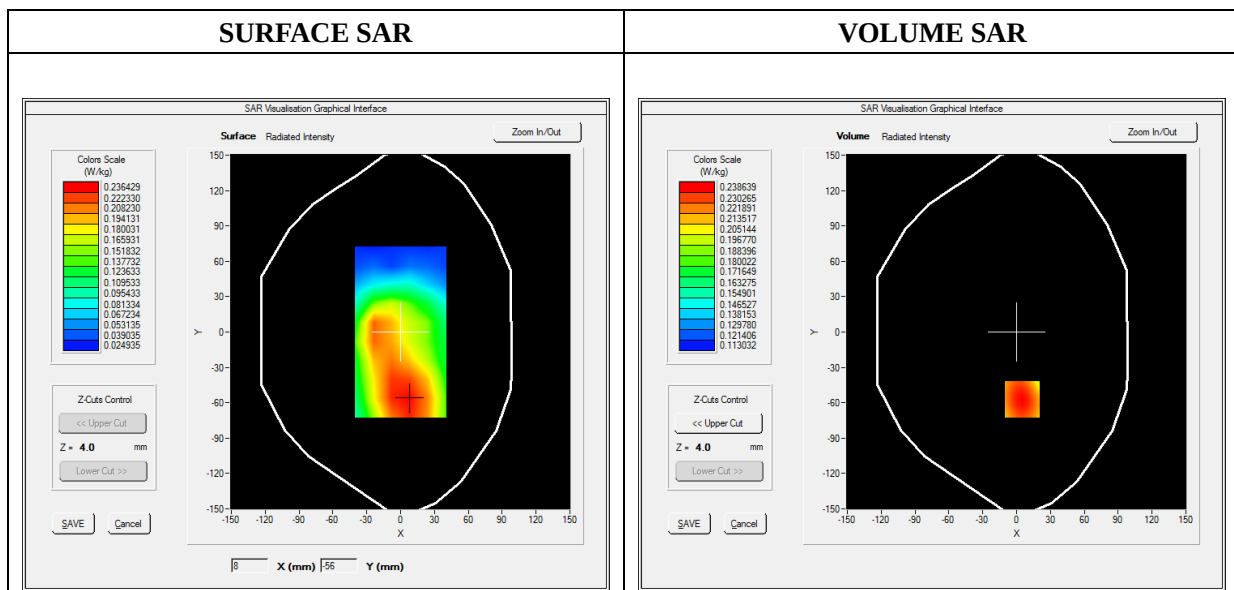
Measurement duration: 12 minutes 3 seconds

### A. Experimental conditions

|                 |                               |
|-----------------|-------------------------------|
| Area Scan       | sam_direct_droit2_surf8mm.txt |
| Phantom         | Flat Plane                    |
| Device Position | Front(Near to Mouth)          |
| Band            | LTE Band 12                   |
| Channels        | QPSK, 10MHz, 1RB, Low         |
| Signal          | Duty Cycle 1:1                |

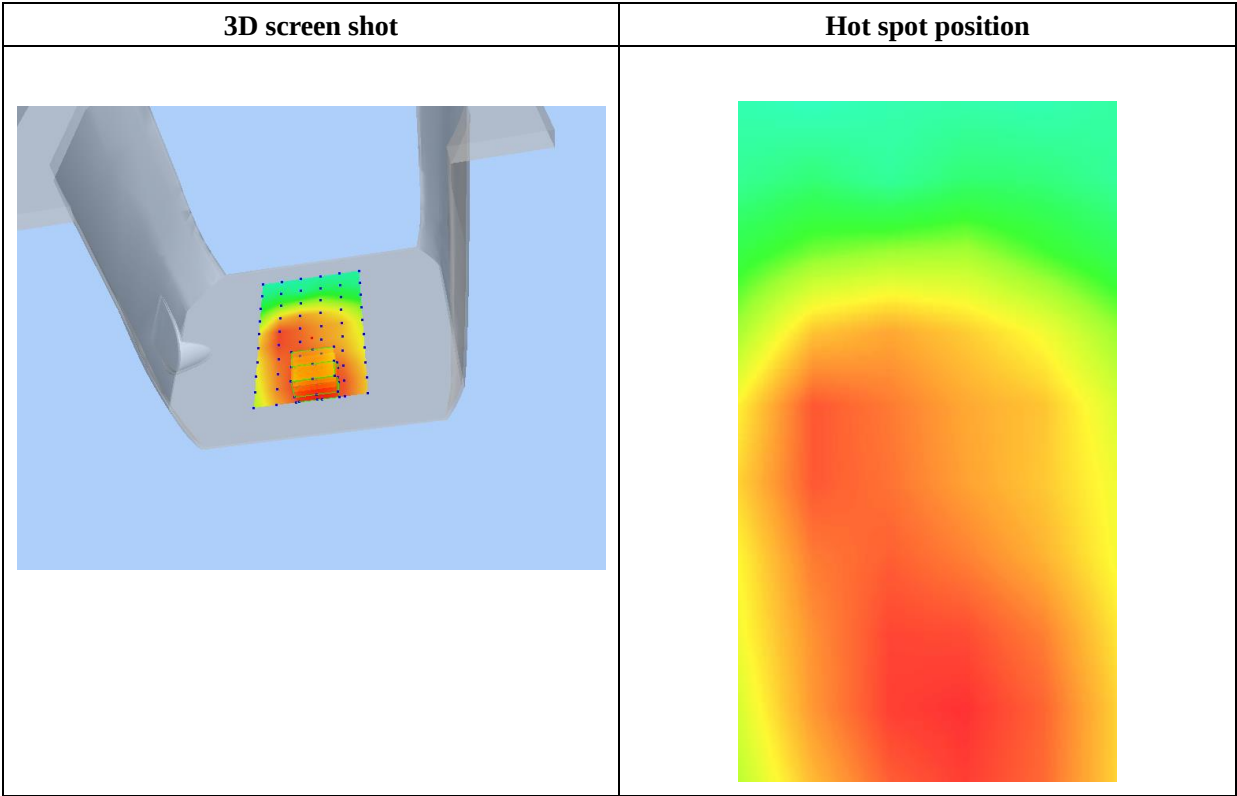
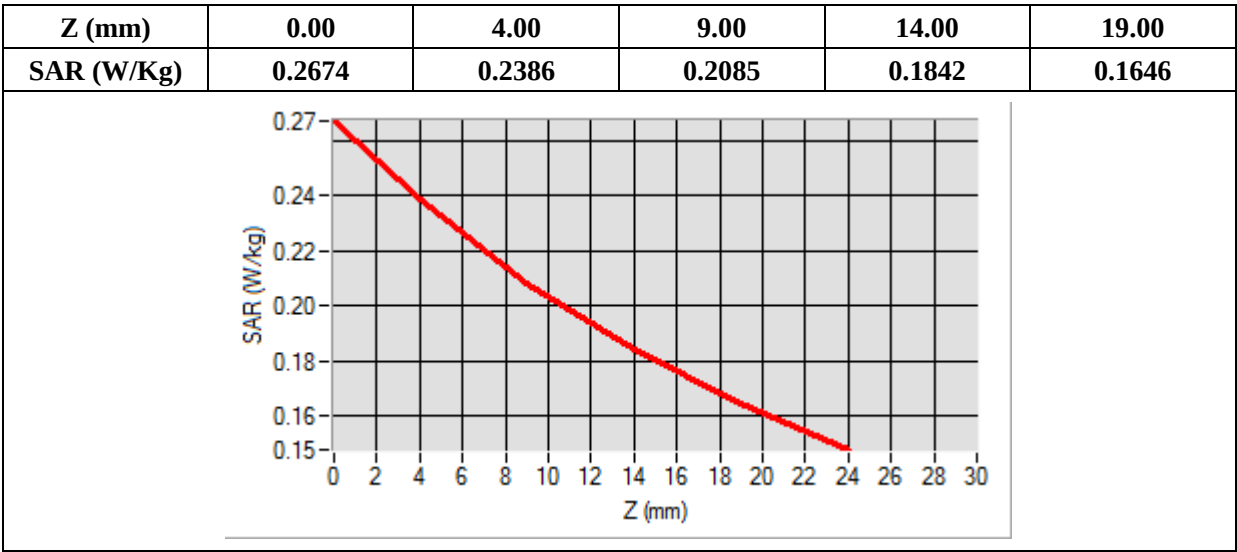
### B. SAR Measurement Results

|                                   |            |
|-----------------------------------|------------|
| Frequency (MHz)                   | 704.000000 |
| Relative Permittivity (real part) | 41.320245  |
| Conductivity (S/m)                | 0.861245   |
| Power Variation (%)               | 0.924535   |
| Ambient Temperature               | 21.1       |
| Liquid Temperature                | 21.2       |



SAR Peak: 0.27 W/kg

|                |          |
|----------------|----------|
| SAR 10g (W/Kg) | 0.202097 |
| SAR 1g (W/Kg)  | 0.237636 |



MEASUREMENT 8

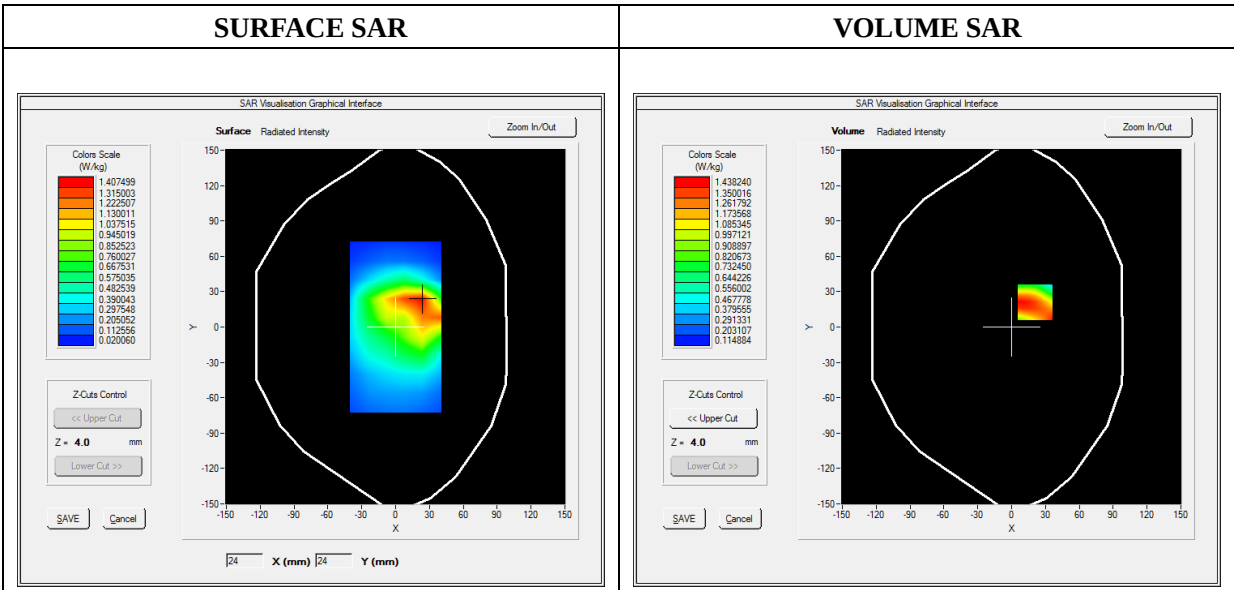
Type: Phone measurement (Complete)  
Date of measurement: 2022-04-18  
Measurement duration: 11 minutes 48 seconds

A. Experimental conditions

|                 |                               |
|-----------------|-------------------------------|
| Area Scan       | sam_direct_droit2_surf8mm.txt |
| Phantom         | Flat Plane                    |
| Device Position | Back                          |
| Band            | GPRS850_3TX                   |
| Channels        | Middle                        |
| Signal          | Duty Cycle: 1:2.66            |

B. SAR Measurement Results

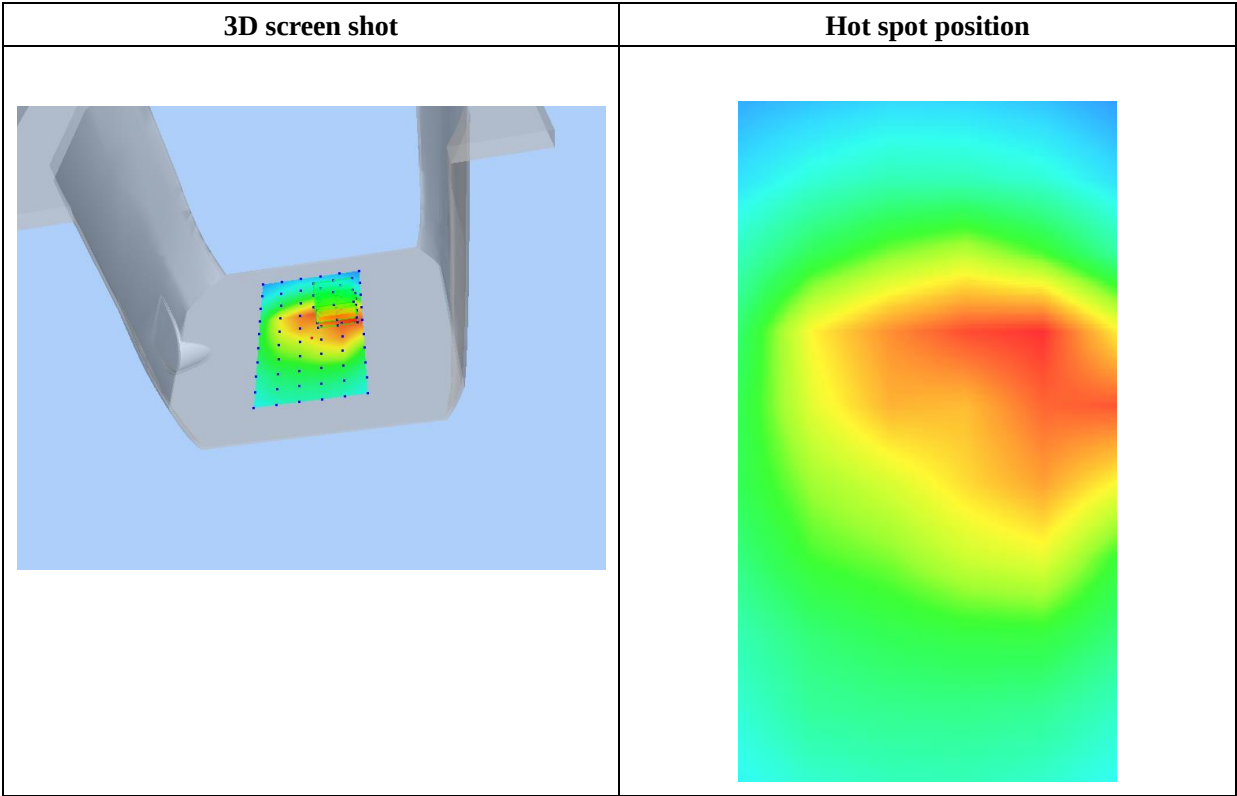
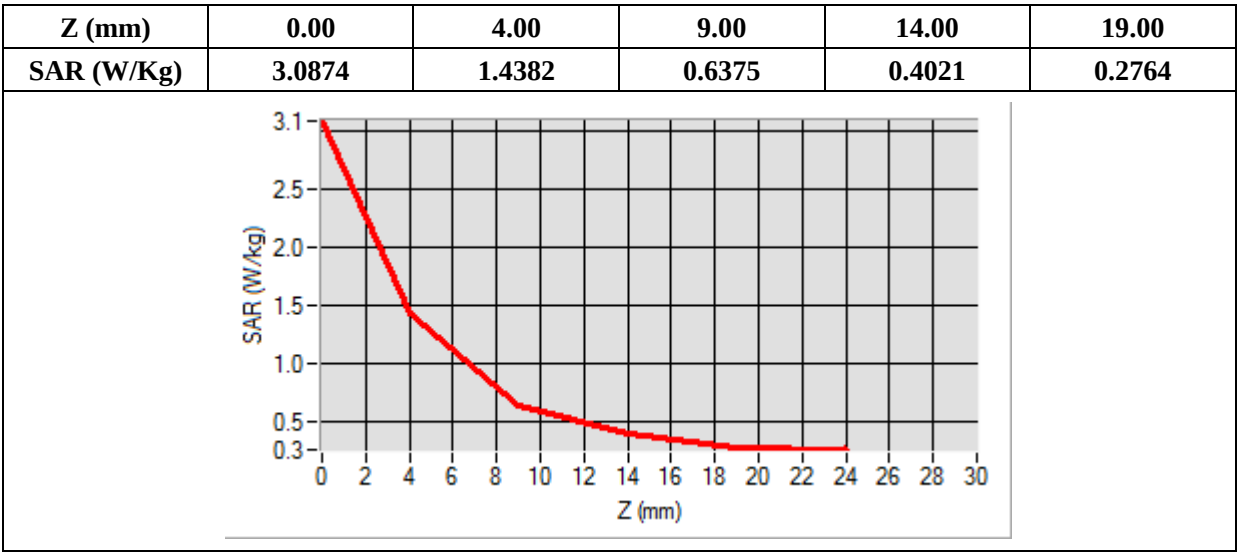
|                                   |            |
|-----------------------------------|------------|
| Frequency (MHz)                   | 824.200000 |
| Relative Permittivity (real part) | 41.110245  |
| Conductivity (S/m)                | 0.871245   |
| Power Variation (%)               | -3.720000  |
| Ambient Temperature               | 21.1       |
| Liquid Temperature                | 21.3       |



Maximum location: X=21.00, Y=21.00

SAR Peak: 2.49 W/kg

|                |          |
|----------------|----------|
| SAR 10g (W/Kg) | 0.843735 |
| SAR 1g (W/Kg)  | 1.380851 |



MEASUREMENT 9

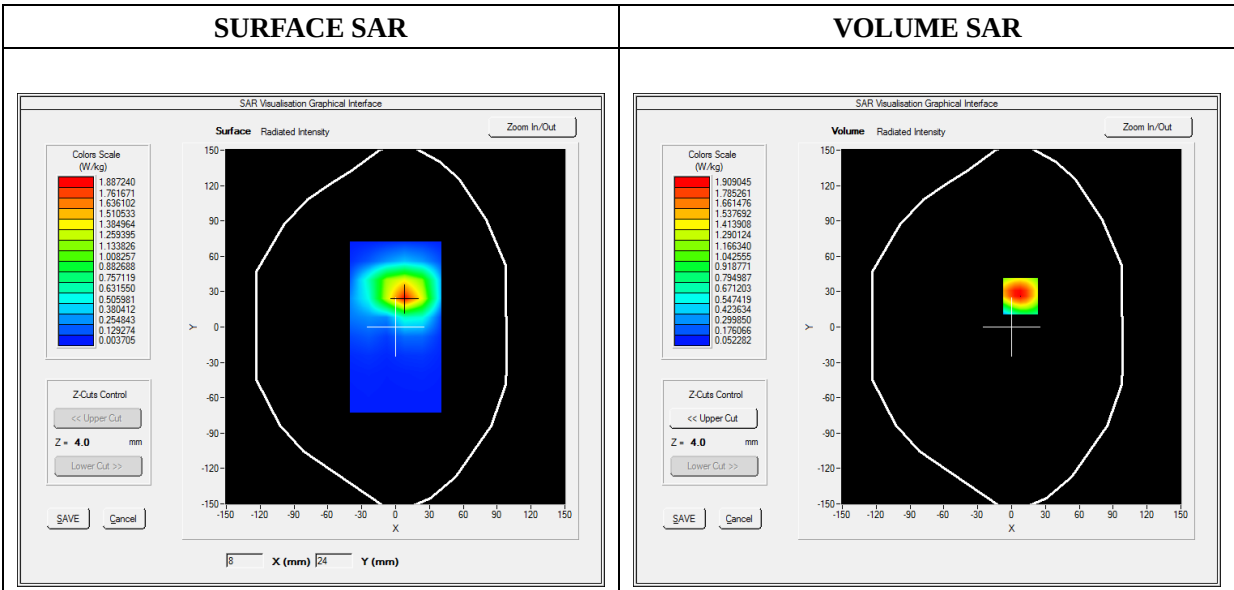
Type: Phone measurement (Complete)  
Date of measurement: 2022-04-19  
Measurement duration: 11 minutes 48 seconds

A. Experimental conditions

|                 |                               |
|-----------------|-------------------------------|
| Area Scan       | sam_direct_droit2_surf8mm.txt |
| Phantom         | Flat Plane                    |
| Device Position | Back                          |
| Band            | GPRS1900_3TX                  |
| Channels        | High                          |
| Signal          | Duty Cycle: 1:2.66            |

B. SAR Measurement Results

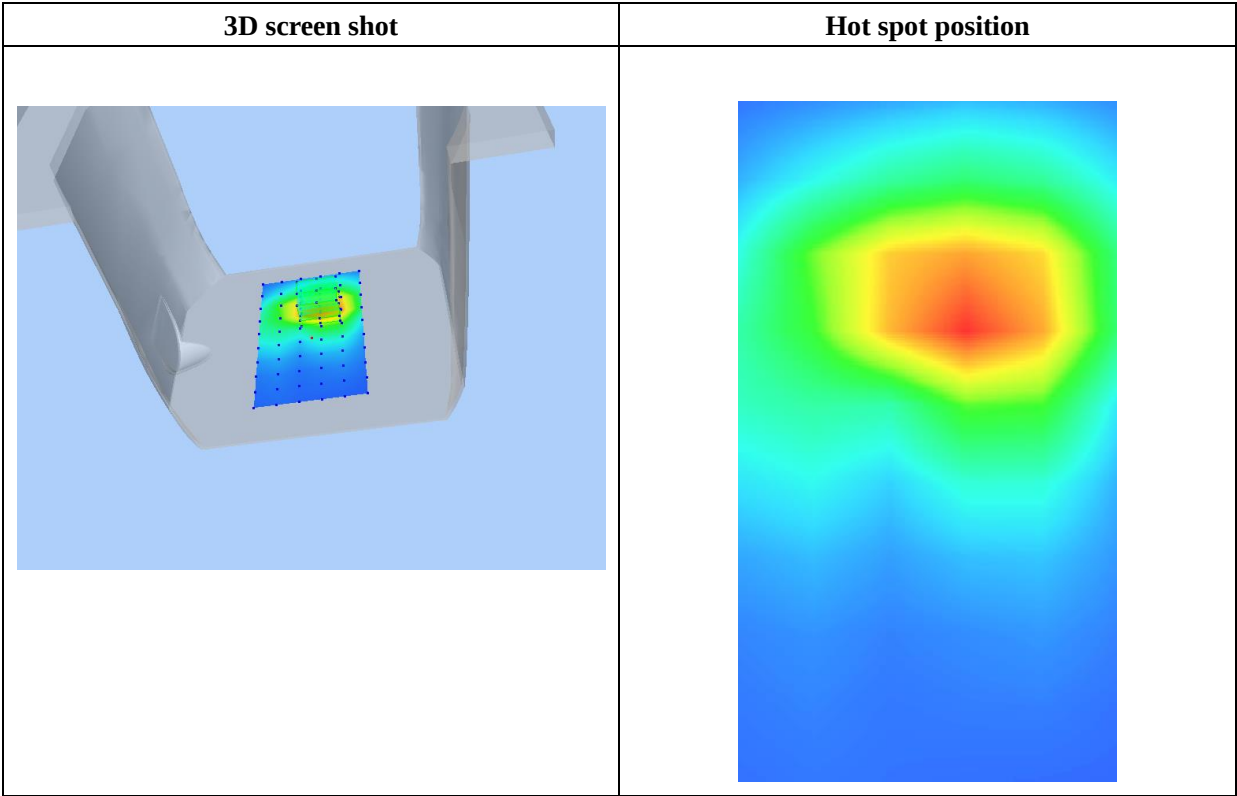
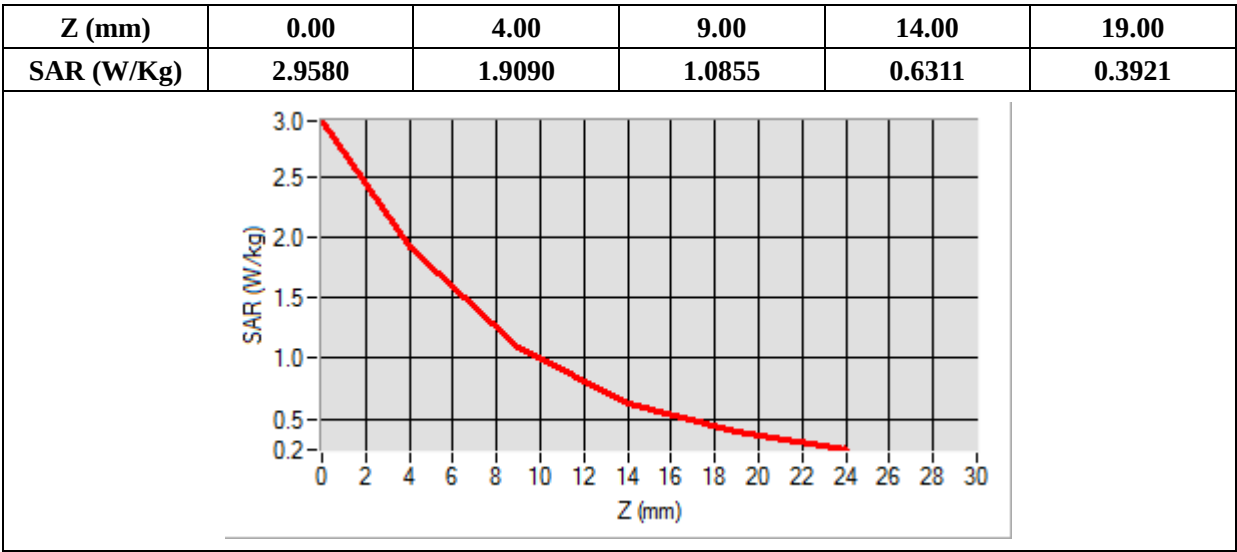
|                                   |             |
|-----------------------------------|-------------|
| Frequency (MHz)                   | 1880.000000 |
| Relative Permittivity (real part) | 39.6226545  |
| Conductivity (S/m)                | 1.372584    |
| Power Variation (%)               | -1.080000   |
| Ambient Temperature               | 21.1        |
| Liquid Temperature                | 21.3        |



Maximum location: X=8.00, Y=26.00

SAR Peak: 3.06 W/kg

|                |          |
|----------------|----------|
| SAR 10g (W/Kg) | 1.024869 |
| SAR 1g (W/Kg)  | 1.818185 |



MEASUREMENT 10

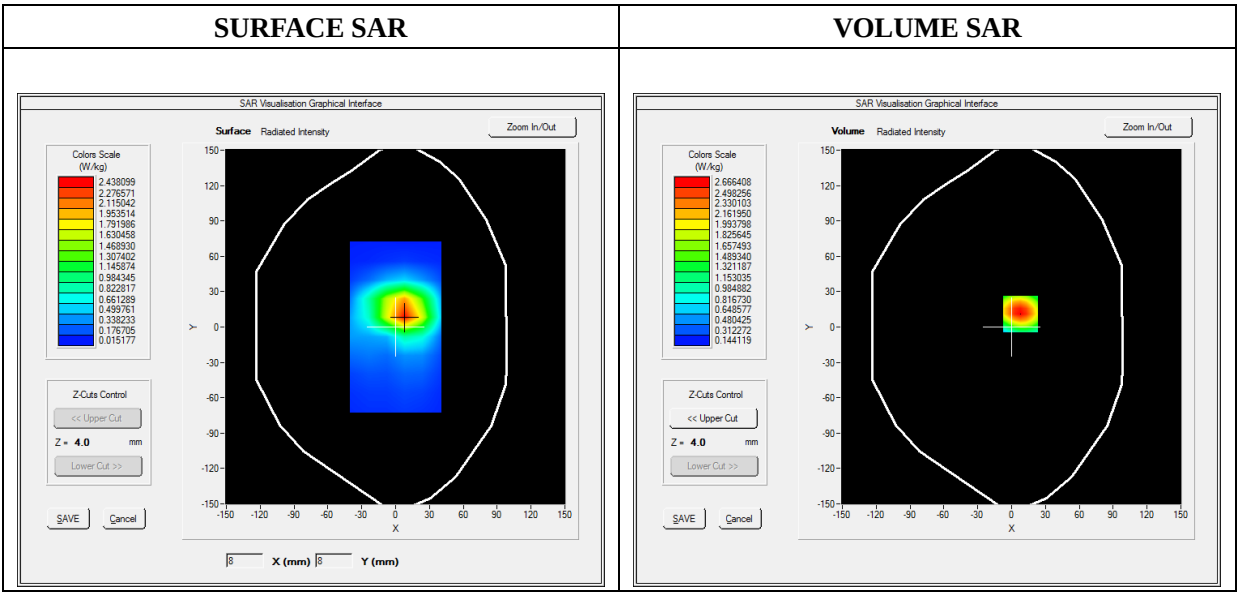
Type: Phone measurement (Complete)  
Date of measurement: 2022-04-19  
Measurement duration: 12 minutes 3 seconds

A. Experimental conditions

|                 |                               |
|-----------------|-------------------------------|
| Area Scan       | sam_direct_droit2_surf8mm.txt |
| Phantom         | Flat Plane                    |
| Device Position | Back                          |
| Band            | LTE Band 2                    |
| Channels        | QPSK, 20MHz, 1RB, Low         |
| Signal          | Duty Cycle: 1:1               |

B. SAR Measurement Results

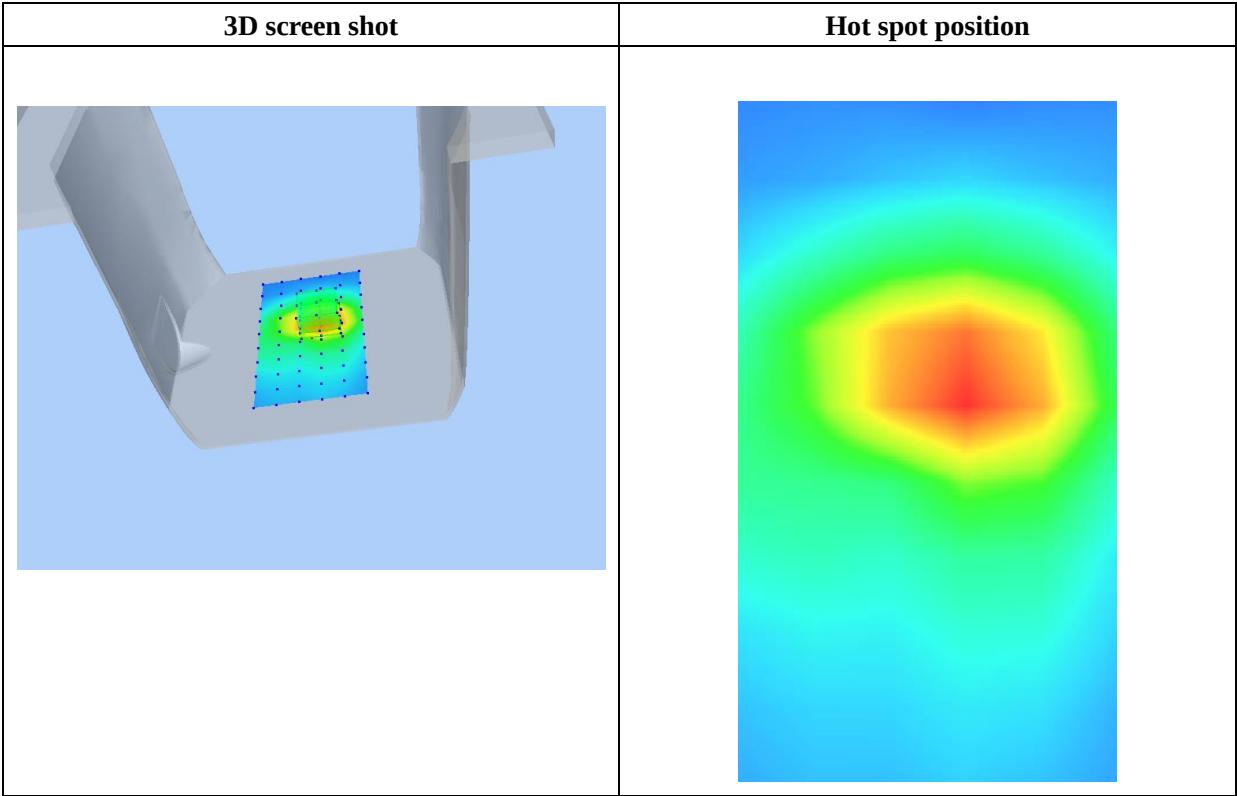
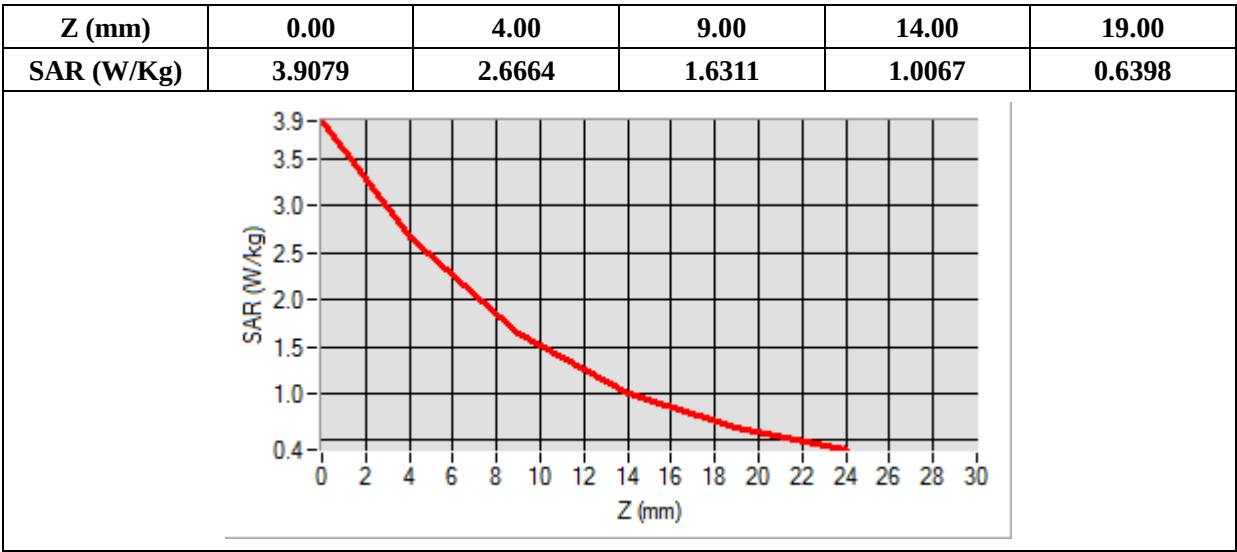
|                                   |             |
|-----------------------------------|-------------|
| Frequency (MHz)                   | 1860.000000 |
| Relative Permittivity (real part) | 39.564521   |
| Conductivity (S/m)                | 1.381412    |
| Power Variation (%)               | 1.536272    |
| Ambient Temperature               | 21.1        |
| Liquid Temperature                | 21.3        |



Maximum location: X=8.00, Y=11.00

SAR Peak: 3.95 W/kg

|                |          |
|----------------|----------|
| SAR 10g (W/Kg) | 1.445807 |
| SAR 1g (W/Kg)  | 2.493935 |



# MEASUREMENT 11

Type: Phone measurement (Complete)

Date of measurement: 2022-04-19

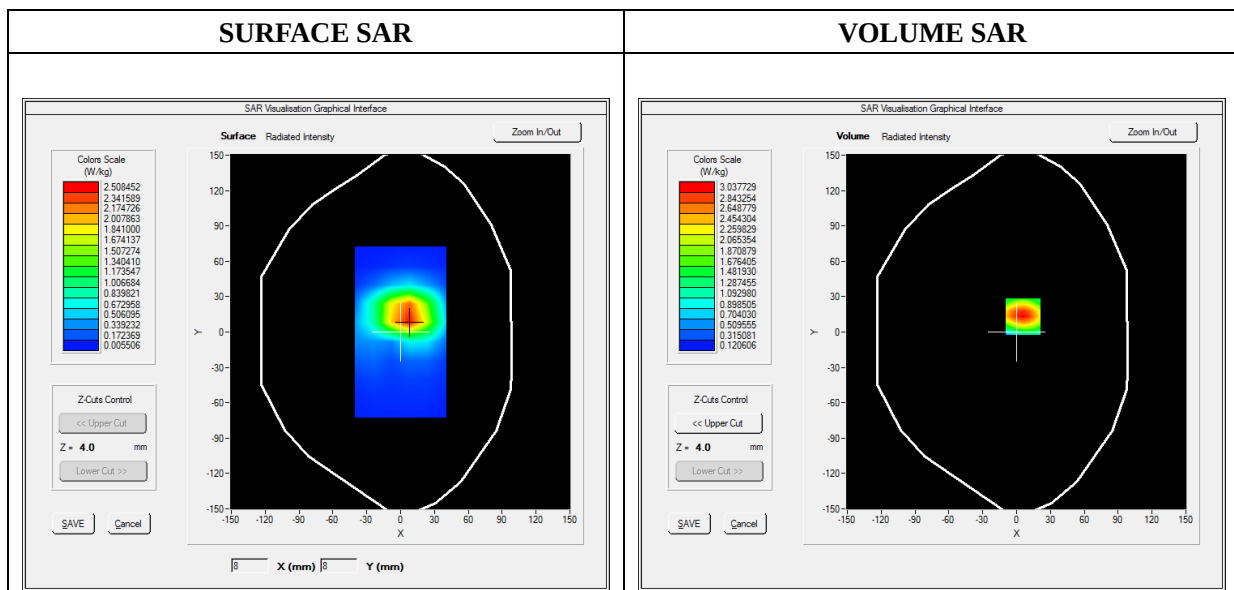
Measurement duration: 12 minutes 3 seconds

## A. Experimental conditions

|                 |                               |
|-----------------|-------------------------------|
| Area Scan       | sam_direct_droit2_surf8mm.txt |
| Phantom         | Flat Plane                    |
| Device Position | Back                          |
| Band            | LTE Band 4                    |
| Channels        | QPSK, 20MHz, 1RB,High         |
| Signal          | Duty Cycle: 1:1               |

## B. SAR Measurement Results

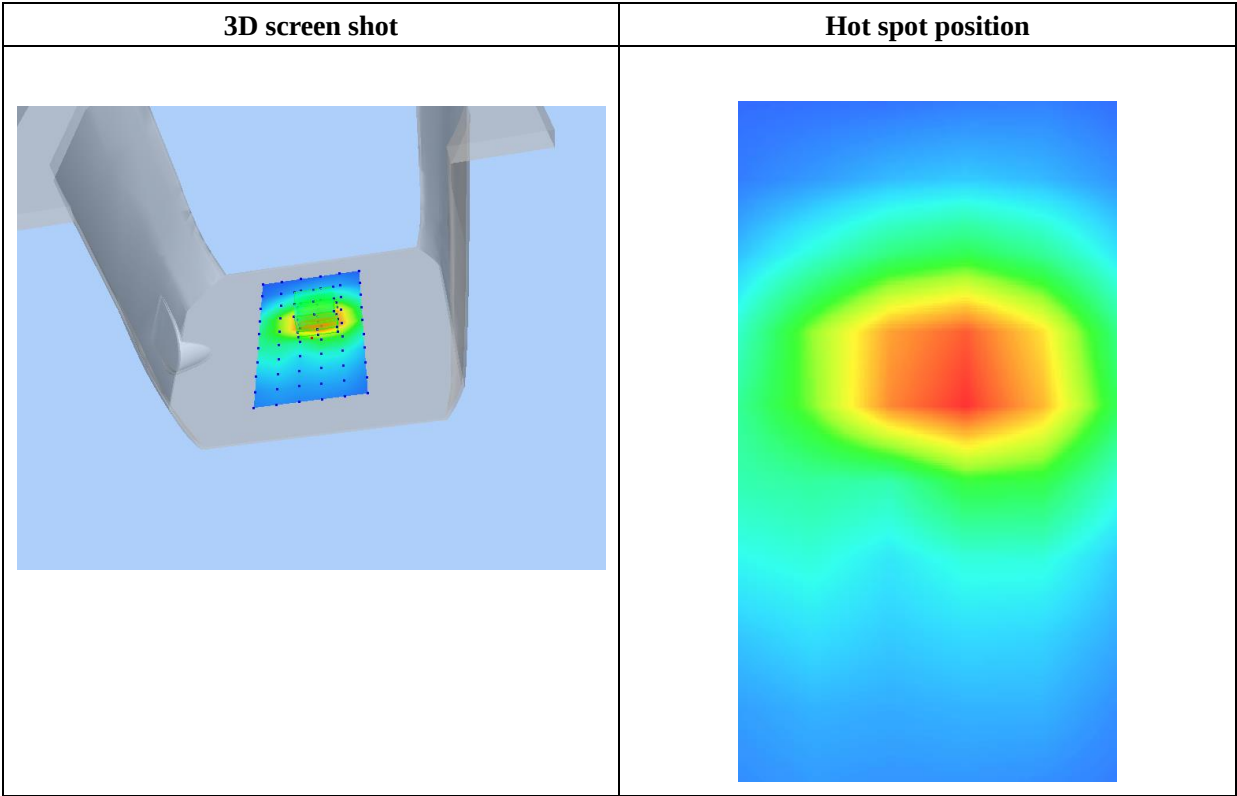
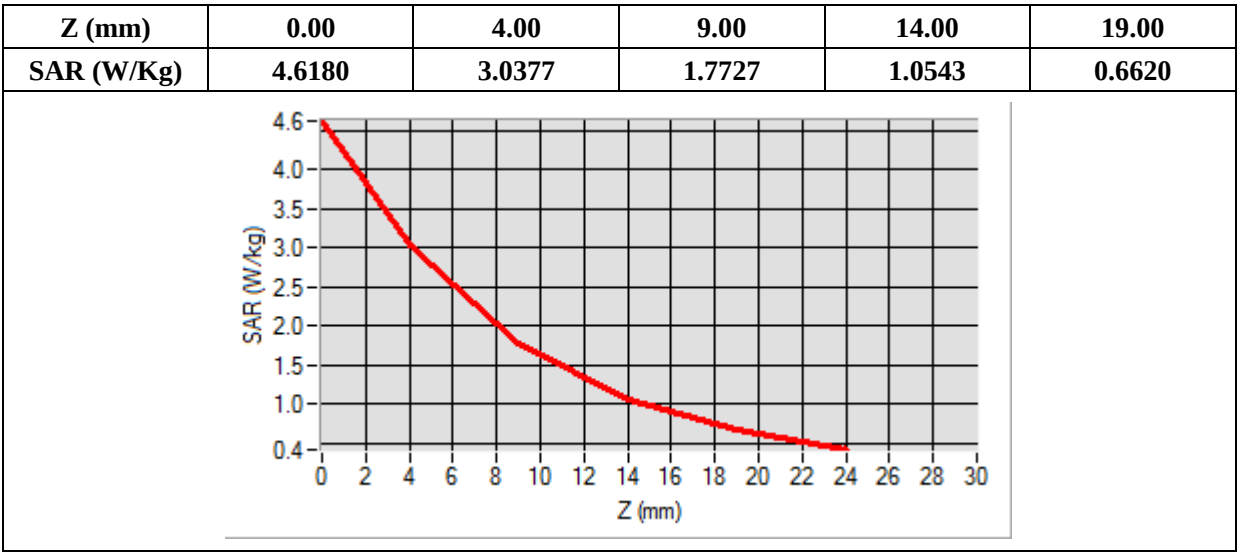
|                                   |             |
|-----------------------------------|-------------|
| Frequency (MHz)                   | 1745.000000 |
| Relative Permittivity (real part) | 39.624525   |
| Conductivity (S/m)                | 1.371412    |
| Power Variation (%)               | 1.536272    |
| Ambient Temperature               | 21.1        |
| Liquid Temperature                | 21.3        |



**Maximum location: X=6.00, Y=13.00**

SAR Peak: 4.66 W/kg

|                |          |
|----------------|----------|
| SAR 10g (W/Kg) | 1.584916 |
| SAR 1g (W/Kg)  | 2.824999 |



MEASUREMENT 12

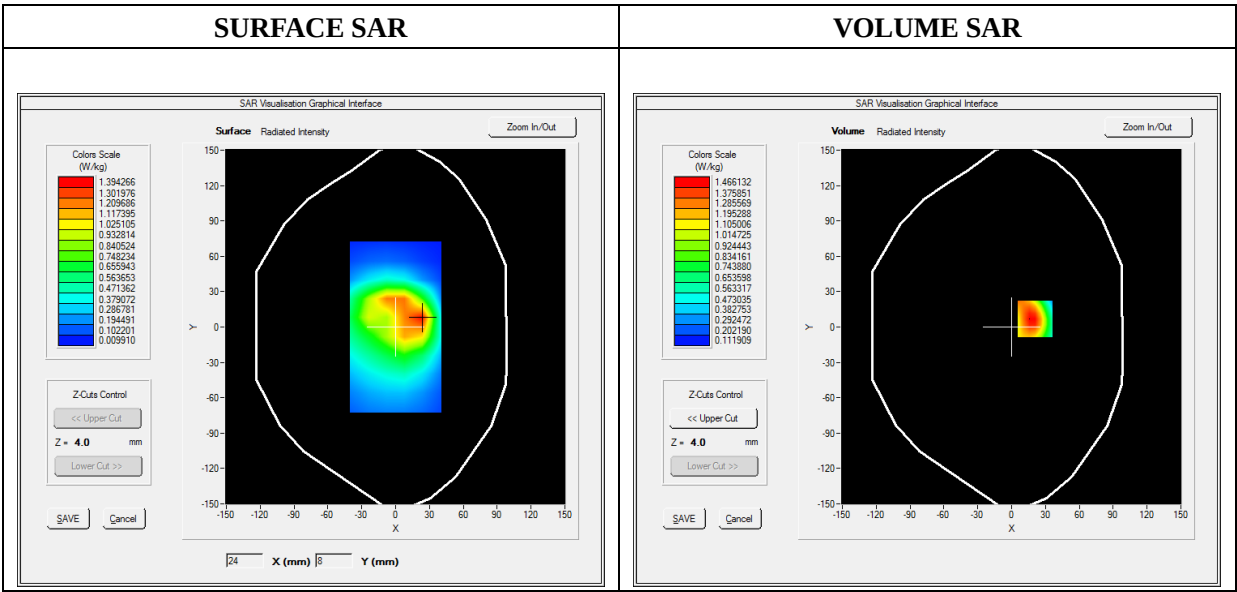
Type: Phone measurement (Complete)  
Date of measurement: 2022-04-18  
Measurement duration: 12 minutes 3 seconds

A. Experimental conditions

|                 |                               |
|-----------------|-------------------------------|
| Area Scan       | sam_direct_droit2_surf8mm.txt |
| Phantom         | Flat Plane                    |
| Device Position | Back                          |
| Band            | LTE Band 5                    |
| Channels        | QPSK, 10MHz, 1RB, High        |
| Signal          | Duty Cycle 1:1                |

B. SAR Measurement Results

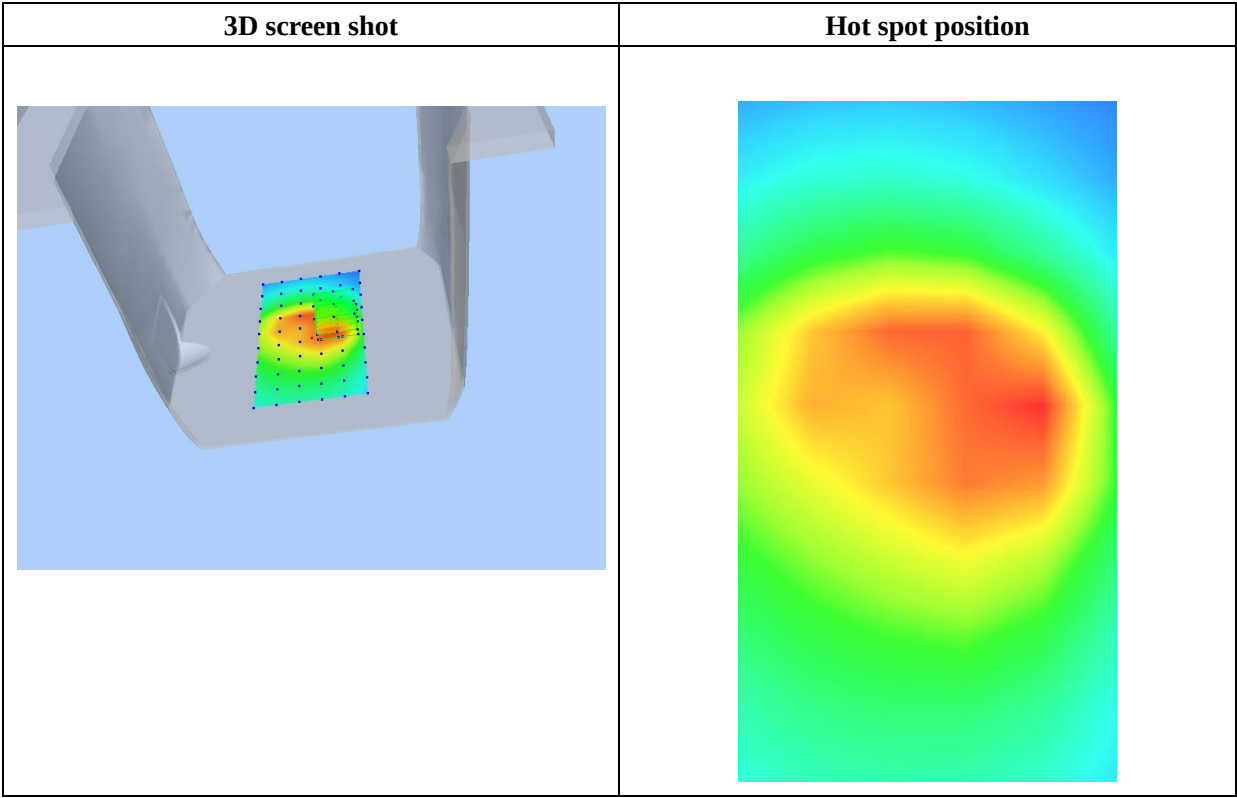
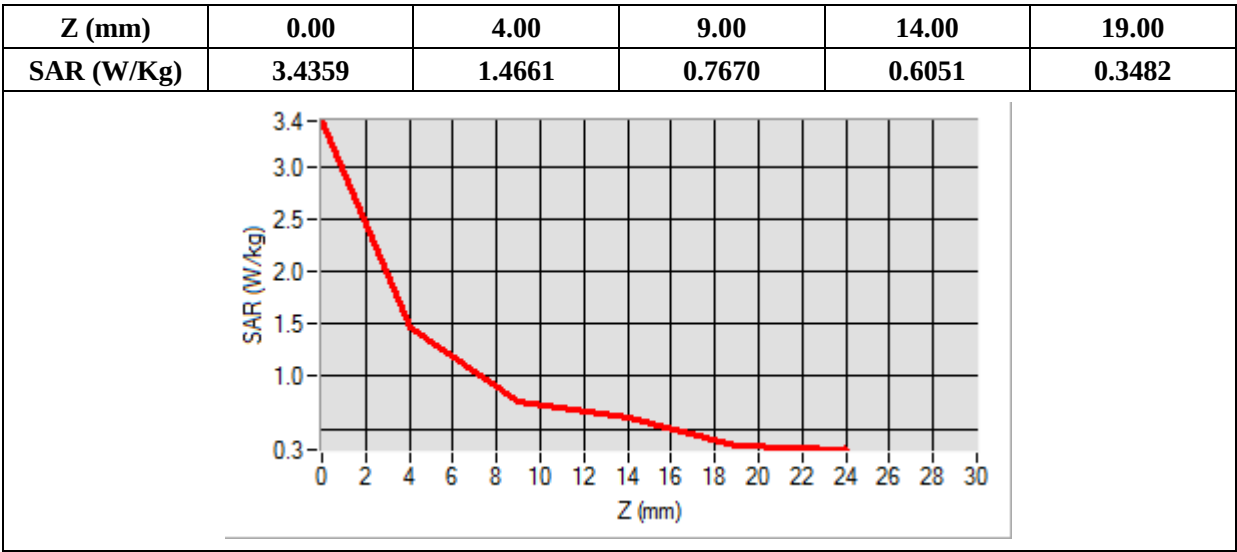
|                                   |            |
|-----------------------------------|------------|
| Frequency (MHz)                   | 844.000000 |
| Relative Permittivity (real part) | 41.114890  |
| Conductivity (S/m)                | 0.871250   |
| Power Variation (%)               | 1.374628   |
| Ambient Temperature               | 21.1       |
| Liquid Temperature                | 21.2       |



Maximum location: X=21.00, Y=7.00

SAR Peak: 2.19 W/kg

|                |          |
|----------------|----------|
| SAR 10g (W/Kg) | 0.869576 |
| SAR 1g (W/Kg)  | 1.392069 |



MEASUREMENT 13

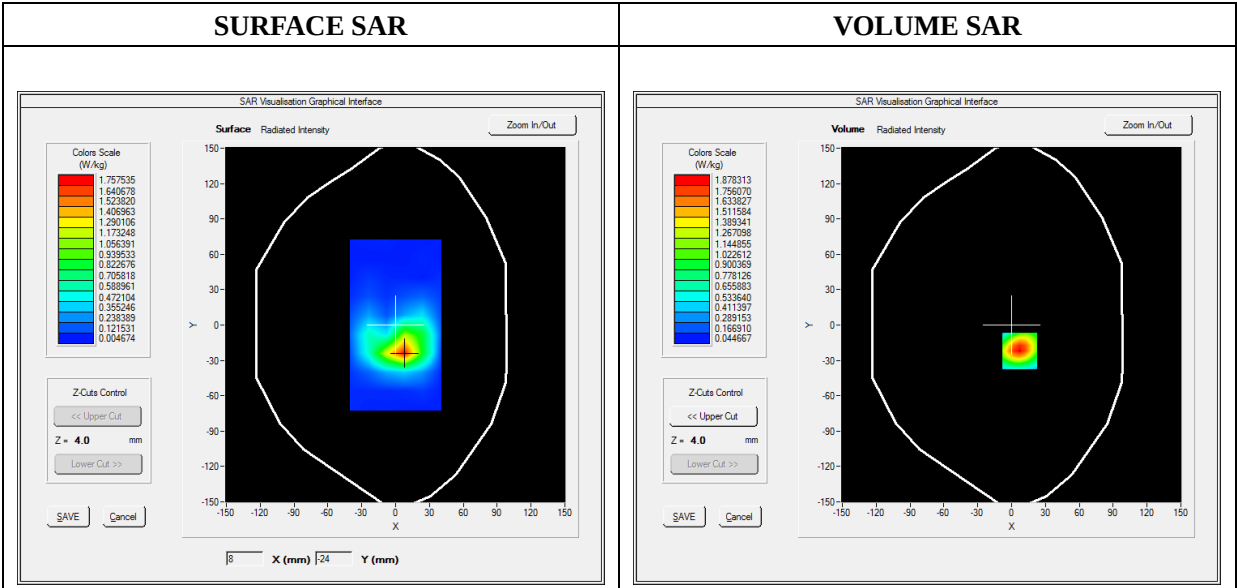
Type: Phone measurement (Complete)  
Date of measurement: 2022-04-11  
Measurement duration: 12 minutes 3 seconds

A. Experimental conditions

|                 |                               |
|-----------------|-------------------------------|
| Area Scan       | sam_direct_droit2_surf8mm.txt |
| Phantom         | Flat Plane                    |
| Device Position | Back                          |
| Band            | LTE Band 7                    |
| Channels        | QPSK, 20MHz, 1RB, Low         |
| Signal          | Duty Cycle 1:1                |

B. SAR Measurement Results

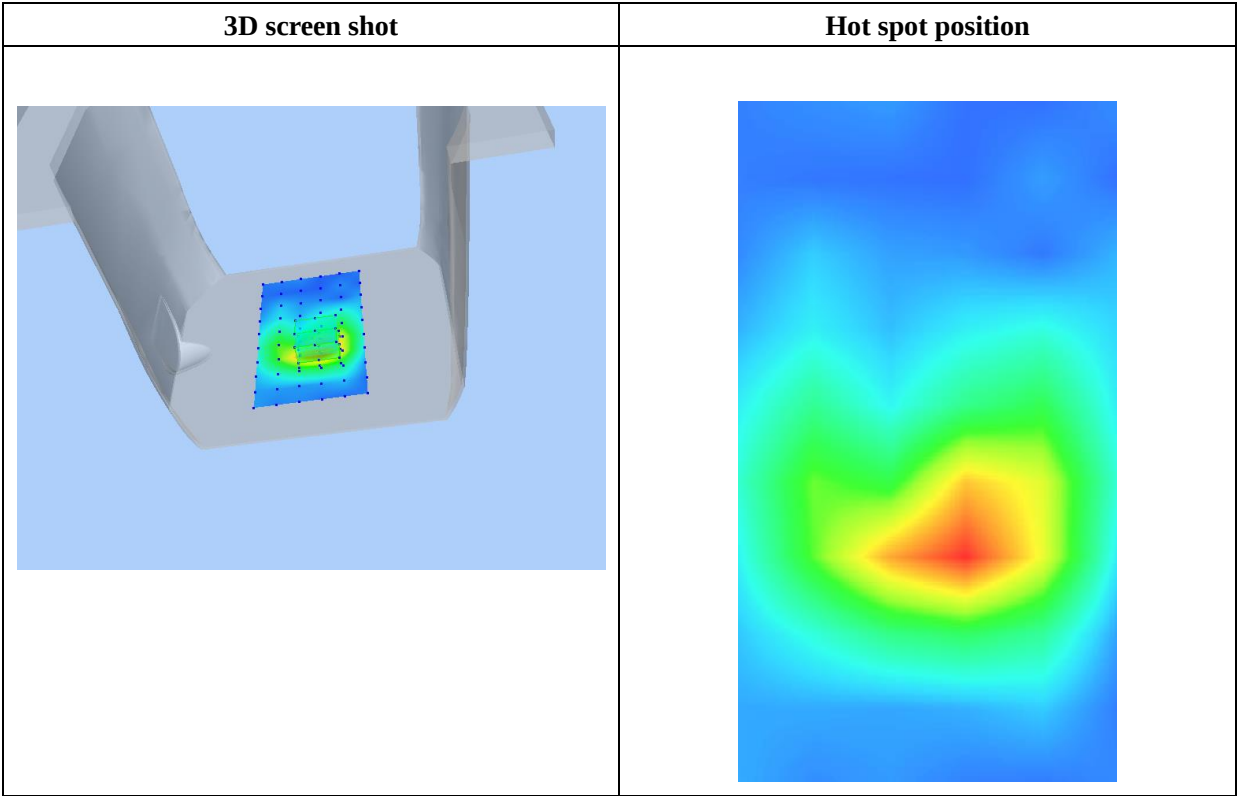
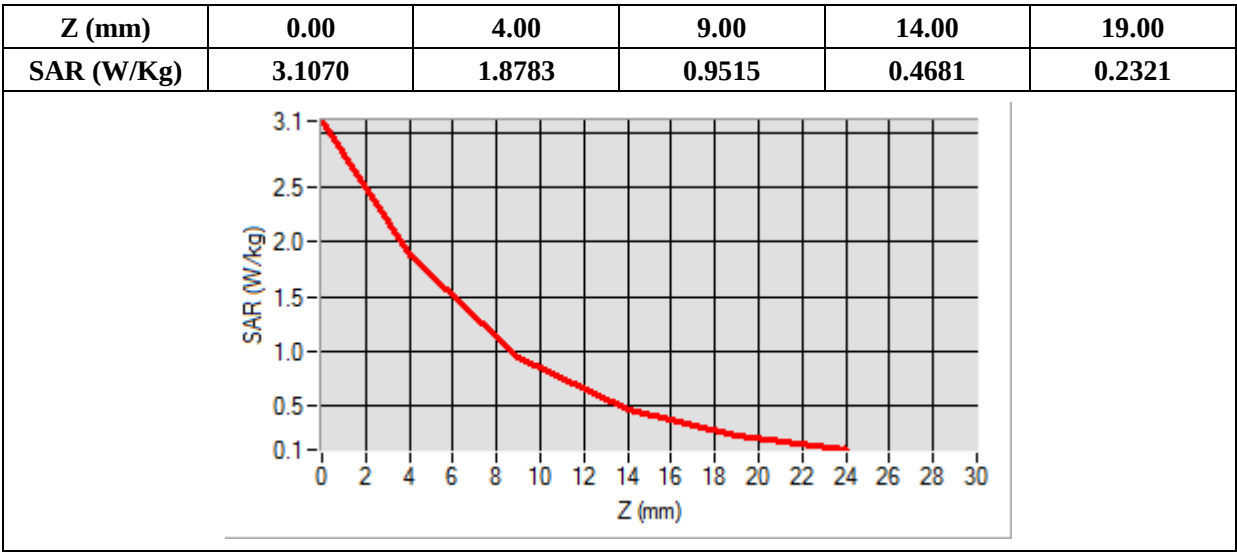
|                                   |             |
|-----------------------------------|-------------|
| Frequency (MHz)                   | 2510.000000 |
| Relative Permittivity (real part) | 39.221092   |
| Conductivity (S/m)                | 1.990182    |
| Power Variation (%)               | 0.923554    |
| Ambient Temperature               | 21.1        |
| Liquid Temperature                | 21.2        |



Maximum location: X=7.00, Y=-22.00

SAR Peak: 3.13 W/kg

|                |          |
|----------------|----------|
| SAR 10g (W/Kg) | 0.852475 |
| SAR 1g (W/Kg)  | 1.725335 |



MEASUREMENT 14

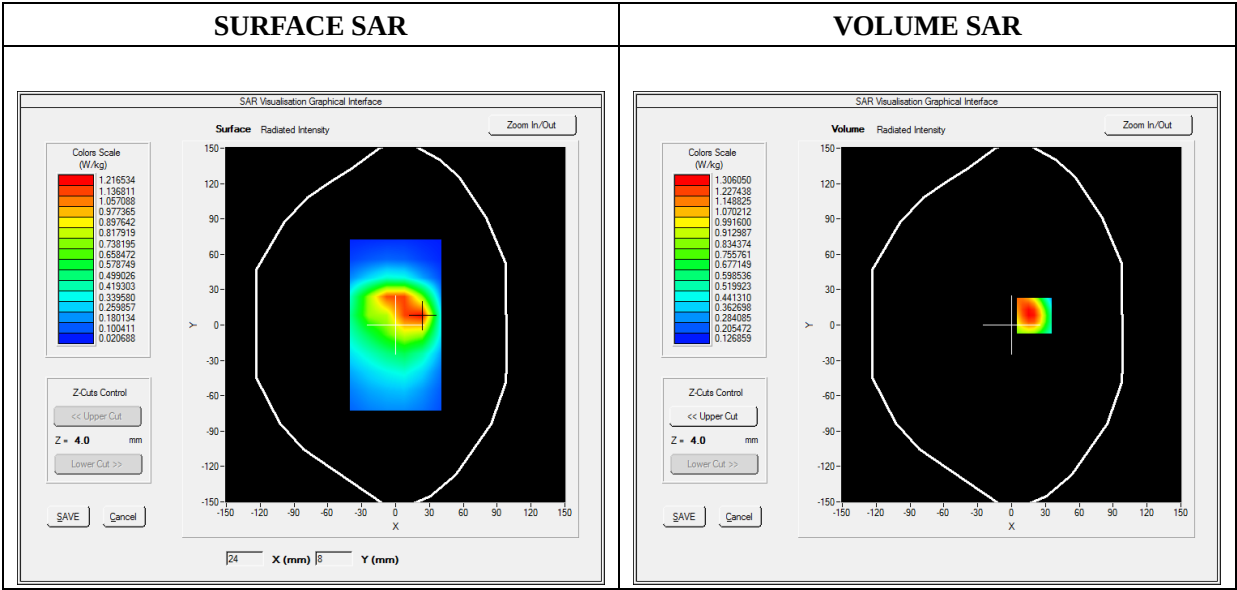
Type: Phone measurement (Complete)  
Date of measurement: 2022-04-18  
Measurement duration: 12 minutes 3 seconds

A. Experimental conditions

|                 |                               |
|-----------------|-------------------------------|
| Area Scan       | sam_direct_droit2_surf8mm.txt |
| Phantom         | Flat Plane                    |
| Device Position | Back                          |
| Band            | LTE Band 12                   |
| Channels        | QPSK, 10MHz, 1RB, High        |
| Signal          | Duty Cycle 1:1                |

B. SAR Measurement Results

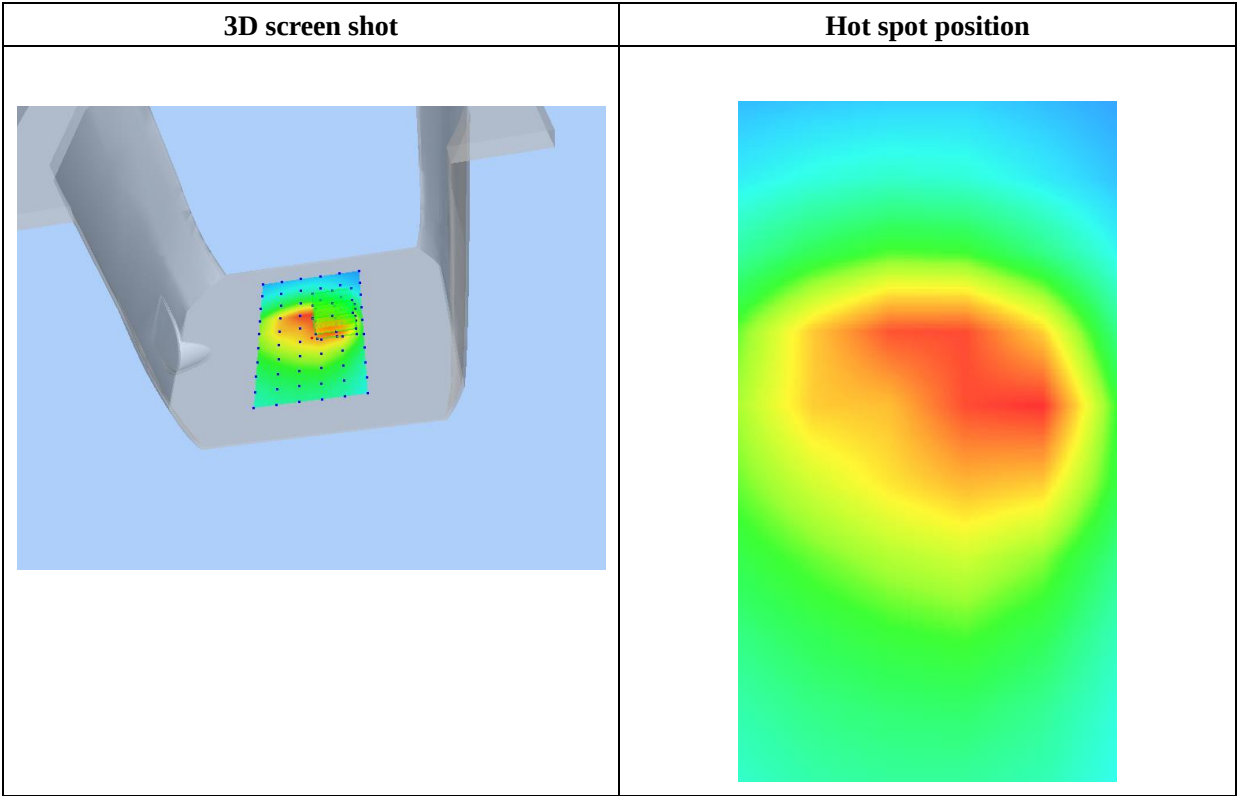
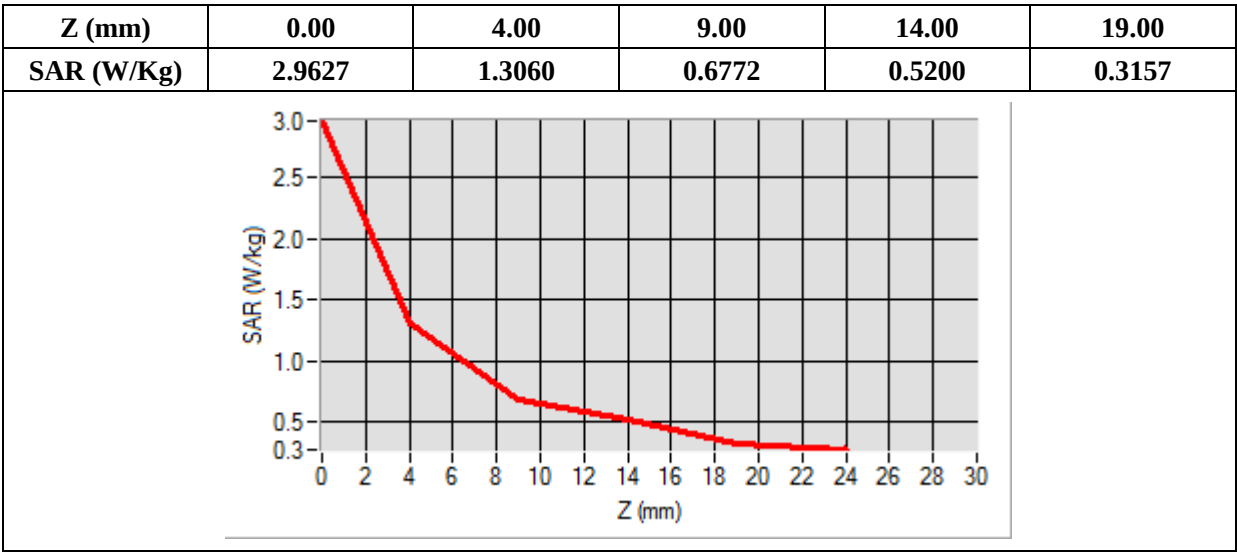
|                                   |            |
|-----------------------------------|------------|
| Frequency (MHz)                   | 704.000000 |
| Relative Permittivity (real part) | 41.320245  |
| Conductivity (S/m)                | 0.861245   |
| Power Variation (%)               | 0.924535   |
| Ambient Temperature               | 21.1       |
| Liquid Temperature                | 21.2       |



Maximum location: X=20.00, Y=8.00

SAR Peak: 1.98 W/kg

|                |          |
|----------------|----------|
| SAR 10g (W/Kg) | 0.773015 |
| SAR 1g (W/Kg)  | 1.261898 |



## Annex C. EUT Photos

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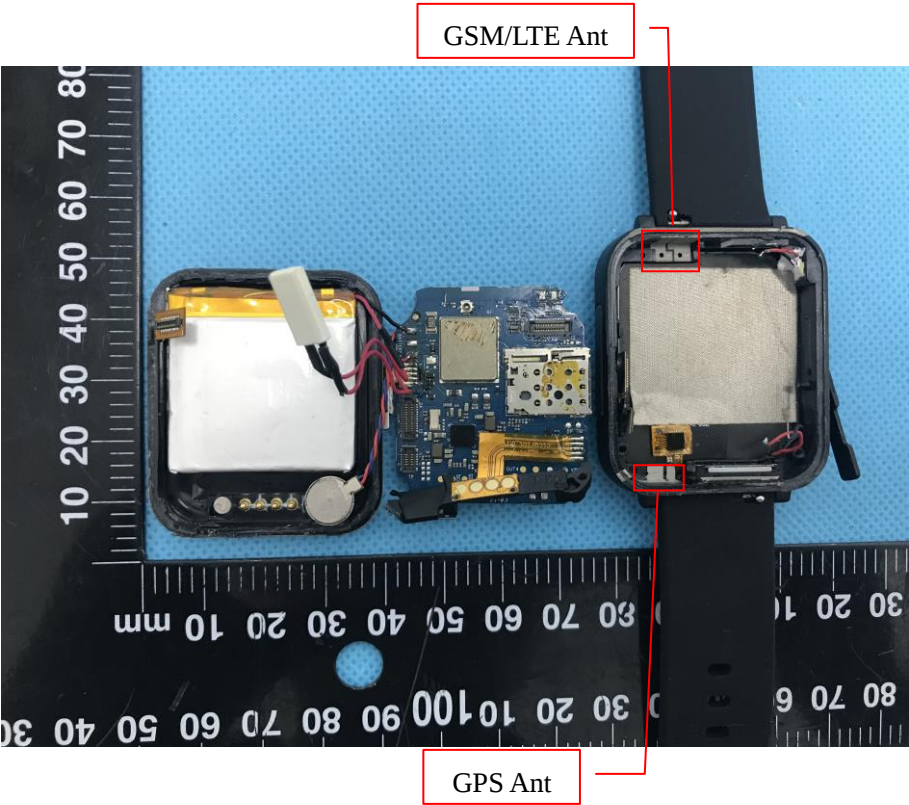
### EUT View 1



### EUT View 2



Antenna View



## **Annex D. Test Setup Photos**

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### **Near to Mouth Exposure Conditions**

**Test distance: 10mm**

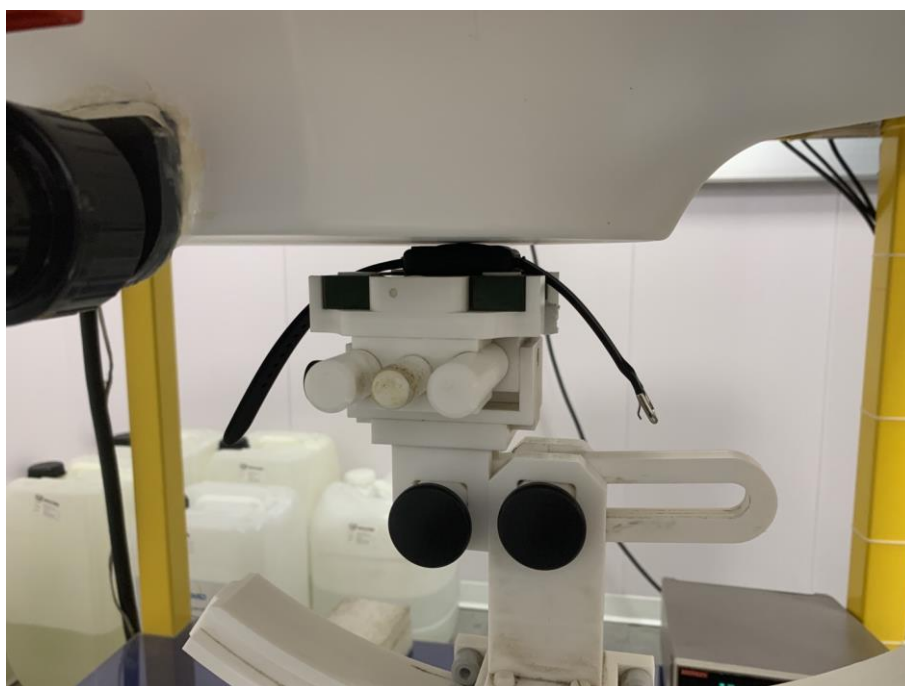
**Body Front**



### **Wrist-worn mode Exposure Conditions**

**Test distance: 0mm**

**Body Back**



## **Annex E. Calibration Certificate**

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*Please refer to the exhibit for the calibration certificate*

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