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# SAR Test Report

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Report No.: AGC02762230801FH01

**FCC ID** : 2AL26-K7-US

**APPLICATION PURPOSE** : Original Equipment

**PRODUCT DESIGNATION** : Body Worn Camera

**BRAND NAME** : Reveal Media

**MODEL NAME** : K7

**APPLICANT** : Reveal Media Limited

**DATE OF ISSUE** : Mar. 22, 2024

**STANDARD(S)** : IEEE Std. 1528:2013  
FCC 47 CFR Part 2§2.1093  
IEEE Std C95.1™-2005

**REPORT VERSION** : V1.1

Attestation of Global Compliance (Shenzhen) Co., Ltd.



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Attestation of Global Compliance(Shenzhen)Co., Ltd  
Attestation of Global Compliance(Shenzhen)Std & Tech Co., Ltd  
Tel: +86-755 2523 4088 E-mail: [agc@agccert.com](mailto:agc@agccert.com) Web: <http://www.agccert.com/>



### Report Revise Record


Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Jan. 08, 2024	Invalid	Initial Release
V1.1	1st	Mar. 22, 2024	Valid	Delete the relevant data according to the user's manual.

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Test Report	
Applicant Name	Reveal Media Limited
Applicant Address	Riverview House, 20 Old Bridge Street, Hampton Wick, KT1 4BU, United Kingdom
Manufacturer Name	Reveal Media Hong Kong Ltd.
Manufacturer Address	6/F., Luk Kwok Centre, 72 Gloucester Road, Wan Chai, HongKong
Factory Name	Reveal Media Hong Kong Ltd.
Factory Address	6/F., Luk Kwok Centre, 72 Gloucester Road, Wan Chai, HongKon
Product Designation	Body Worn Camera
Brand Name	Reveal Media
Model Name	K7
EUT Voltage	DC3.8V by battery
Applicable Standard	IEEE Std. 1528:2013 FCC 47 CFR Part 2§2.1093 IEEE Std C95.1™-2005
Date of receipt of test item	Aug. 03, 2023
Test Date	Dec. 01, 2023 to Dec. 22, 2023
Report Template	AGCRT-US-4G/SAR (2021-04-20)

Note: The results of testing in this report apply to the product/system which was tested only.

Prepared By   
 \_\_\_\_\_  
 Bibo Zhang  
 (Project Engineer) Mar. 22, 2024

Reviewed By   
 \_\_\_\_\_  
 Calvin Liu (Reviewer) Mar. 22, 2024

Approved By   
 \_\_\_\_\_  
 Max Zhang (Authorized Officer) Mar. 22, 2024

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## 1. SUMMARY OF MAXIMUM SAR VALUE

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

Frequency Band	Highest Reported 1g-SAR(W/kg)	SAR Test Limit (W/kg)
	Body-worn/ Hotspot (with 0mm separation)	
UMTS Band II	0.041	1.6
UMTS Band IV	0.045	
UMTS Band V	0.217	
LTE Band 2	0.055	
LTE Band 4	0.048	
LTE Band 5	0.234	
LTE Band 12	0.127	
LTE Band 13	0.298	
LTE Band 14	0.369	
LTE Band 66	0.043	
LTE Band 71	0.085	
WIFI 2.4G	0.087	
5.2GHz (U-NII-1)	0.092	
5.3GHz (U-NII-2A)	0.099	
5.6GHz (U-NII-2C)	0.116	
5.8GHz (U-NII-3)	0.096	
Simultaneous Reported SAR	0.567	
<b>SAR Test Result</b>	<b>PASS</b>	

This device is compliance with Specific Absorption Rate (SAR) for general population/uncontrolled exposure limits (1.6W/kg) specified in IEEE Std. 1528:2013; FCC 47CFR § 2.1093; IEEE/ANSI C95.1:2005 and the following specific FCC Test Procedures:

- KDB 447498 D01 General RF Exposure Guidance v06
- KDB 648474 D04 Handset SAR v01r03
- KDB 865664 D01 SAR Measurement 100MHz to 6GHz v01r04
- KDB 941225 D01 3G SAR Procedures v03r01
- KDB 941225 D06 Hotspot Mode v02r01
- KDB 248227 D01 802 11 Wi-Fi SAR v02r02
- KDB 941225 D05 SAR for LTE Devices v02r05

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## 2. GENERAL INFORMATION

### 2.1. EUT Description

General Information	
Product Designation	Body Worn Camera
Test Model	K7
Sample ID	230803004
Hardware Version	EP-VRM04MB-05
Software Version	V1.0
Device Category	Portable
RF Exposure Environment	Uncontrolled
Antenna Type	Internal
WCDMA	
Support Band	<input checked="" type="checkbox"/> UMTS FDD Band II <input checked="" type="checkbox"/> UMTS FDD Band V <input checked="" type="checkbox"/> UMTS FDD Band IV <input type="checkbox"/> UMTS FDD Band I <input type="checkbox"/> UMTS FDD Band III <input type="checkbox"/> UMTS FDD Band VIII
HS Type	HSPA(HSUPA/HSDPA)
TX Frequency Range	FDD Band II: 1850-1910MHz; FDD Band V: 824-849MHz FDD Band IV: 1710-1770MHz
RX Frequency Range	FDD Band II: 1930-1990MHz; FDD Band V: 869-894MHz FDD Band IV: 2110-2170MHz
Release Version	Rel-6
Type of modulation	HSDPA:QPSK/16QAM; HSUPA:BPSK; WCDMA:QPSK
Antenna Gain	Band II: -0.12dBi; Band IV: -0.2dBi; Band V: -2.05dBi
Max. Average Power	Band II: 23.73dBm; Band IV: 23.93dBm; Band V: 23.01dBm
Bluetooth	
Bluetooth Version	V5.0
Operation Frequency	2402~2480MHz
Type of modulation	GFSK
Peak Power	2.882dBm
Antenna Gain	-2.54dBi
2.4GHz WIFI	
WIFI Specification	<input type="checkbox"/> 802.11a <input checked="" type="checkbox"/> 802.11b <input checked="" type="checkbox"/> 802.11g <input checked="" type="checkbox"/> 802.11n(20) <input type="checkbox"/> 802.11n(40)
Operation Frequency	2412~2462MHz
Avg. Burst Power	11b: 14.51dBm, 11g:13.94dBm, 11n(20):13.45dBm
Antenna Gain	1.15dBi

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**EUT Description( Continue)**

<b>LTE</b>	
Support Band	<input checked="" type="checkbox"/> FDD Band 2 <input checked="" type="checkbox"/> FDD Band 4 <input checked="" type="checkbox"/> FDD Band 5 <input type="checkbox"/> FDD Band 7 <input checked="" type="checkbox"/> FDD Band 12 <input checked="" type="checkbox"/> FDD Band 13 <input checked="" type="checkbox"/> FDD Band 14 <input type="checkbox"/> FDD Band 17 <input type="checkbox"/> FDD Band 25 <input type="checkbox"/> FDD Band 26 <input type="checkbox"/> TDD Band 38 <input type="checkbox"/> TDD Band 40 <input type="checkbox"/> TDD Band 41 <input checked="" type="checkbox"/> FDD Band 66 <input checked="" type="checkbox"/> FDD Band 71
TX Frequency Range	Band 2:1850-1910MHz; Band 4:1710-1755MHz; Band 5:824-849MHz; Band 12:699-716MHz; Band 13: 777-787MHz; Band 14: 788-798MHz; Band 66:1700-1780MHz; Band 71:663-698MHz
RX Frequency Range	Band 2:1930-1990MHz; Band 4:2110-2155MHz; Band 5:869-894MHz; Band 12: 729-746 MHz; Band 13: 746-756MHz; Band 14: 758-768 MHz; Band 66:2110-2200MHz; Band 71:617-652MHz
Release Version	Rel-8
Type of modulation	QPSK, 16QAM
Antenna Gain	Band 2: -0.12dBi; Band 4: -0.2dBi; Band 5: -2.85dBi; Band 12: -2.36dBi; Band 13: -2.29dBi; Band 14: -2.3dBi; Band 66: -0.15dBi; Band 71: -3.96dBi;
Max. Average Power	Band 2: 23.60dBm; Band 4: 23.89dBm; Band 5: 23.91dBm; Band 12: 24.33dBm; Band 13: 22.79dBm; Band 14: 23.04dBm; Band 66: 23.39dBm; Band 71: 19.90 dBm;
<b>5 GHz WIFI</b>	
WIFI Specification	<input checked="" type="checkbox"/> 802.11a <input checked="" type="checkbox"/> 802.11n20 <input checked="" type="checkbox"/> 802.11n40 <input checked="" type="checkbox"/> 802.11ac20 <input checked="" type="checkbox"/> 802.11ac40 <input checked="" type="checkbox"/> 802.11ac80
Operation Frequency	U-NII-1: 5180MHz~5240MHz; U-NII-2A: 5260MHz~5320MHz; U-NII-2C: 5470MHz~5725MHz;U-NII-3: 5745MHz~5825MHz
Max. conducted Power	U-NII-1: 12.48dBm; U-NII-2A: 11.72dBm; U-NII-2C: 10.74dBm; U-NII-3: 10.95dBm
Antenna Gain	1.82dBi
<b>Accessories</b>	
Battery	Brand name: N/A Model No. : IBR036GA Voltage and Capacitance: 3.8 V & 4500mAh
Earphone	Brand name: N/A Model No. : N/A

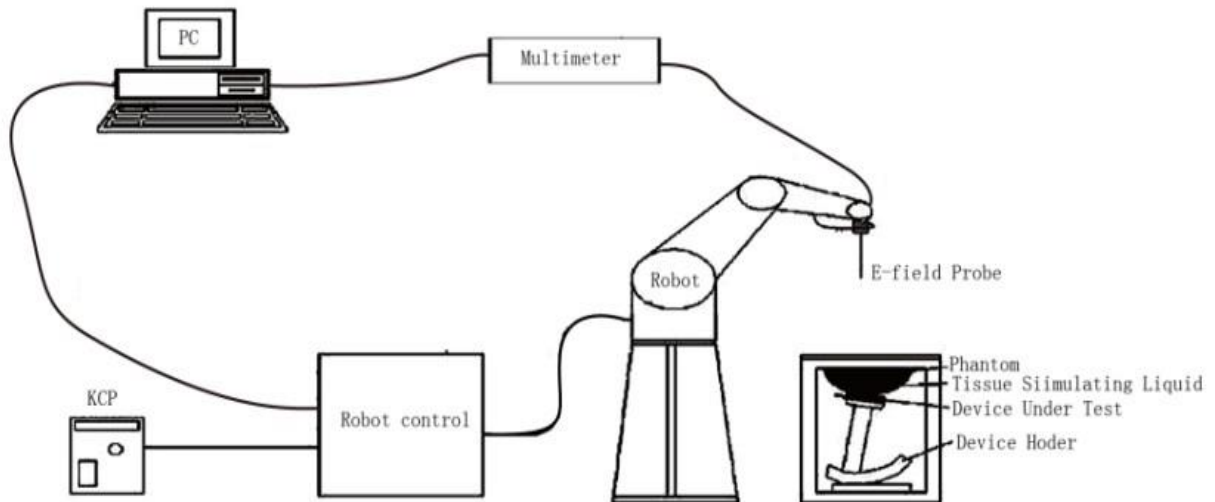
- Note:1.CMU200 can measure the average power and Peak power at the same time  
 2.The sample used for testing is end product.  
 3. The test sample has no any deviation to the test method of standard mentioned in page 1.

Product	Type
	<input checked="" type="checkbox"/> Production unit <input type="checkbox"/> Identical Prototype

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### 3. SAR MEASUREMENT SYSTEM

#### 3.1. The SATIMO system used for performing compliance tests consists of following items



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

- The PC. It controls most of the bench devices and stores measurement data. A computer running WinXP and the Opensar software.
- The E-Field probe. The probe is a 3-axis system made of 3 distinct dipoles. Each dipole returns a voltage in function of the ambient electric field.
- The Keithley multimeter measures each probe dipole voltages.
- The SAM phantom simulates a human head. The measurement of the electric field is made inside the phantom.
- The liquids simulate the dielectric properties of the human head tissues.
- The network emulator controls the mobile phone under test.
- The validation dipoles are used to measure a reference SAR. They are used to periodically check the bench to make sure that there is no drift of the system characteristics over time.
- The phantom, the device holder and other accessories according to the targeted measurement.


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### 3.2. COMOSAR E-Field Probe

The SAR measurement is conducted with the dosimetric probe manufactured by SATIMO. The probe is specially designed and calibrated for use in liquid with high permittivity. The dosimetric probe has special calibration in liquid at different frequency. SATIMO conducts the probe calibration in compliance with international and national standards (e.g. IEEE 1528 and relevant KDB files.) The calibration data are in Appendix D.

#### Isotropic E-Field Probe Specification

<b>Model</b>	SSE2	
<b>Manufacture</b>	MVG	
<b>Identification No.</b>	2023-EPGO-414	
<b>Frequency</b>	0.15GHz-7.5GHz Linearity:±0.09dB(0.15GHz-7.5GHz)	
<b>Dynamic Range</b>	0.01W/kg-100W/kg Linearity:±0.09dB	
<b>Dimensions</b>	Overall length:330mm Length of individual dipoles:24.5mm Maximum external diameter:8mm Probe Tip external diameter:2.55mm Distance between dipoles/ probe extremity:12.7mm	
<b>Application</b>	High precision dosimetric measurements in any exposure scenario (e.g., very strong gradient fields). Only probe which enables compliance testing for frequencies up to 6 GHz with precision of better 30%.	

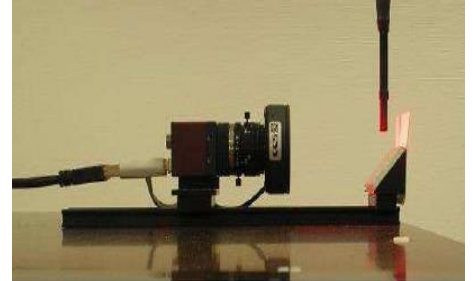
### 3.3. Robot

<p>The COMOSAR system uses the KUKA robot from SATIMO SA (France).For the 6-axis controller COMOSAR system, the KUKA robot controller version from SATIMO is used.</p> <p>The XL robot series have many features that are important for our application:</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> High precision (repeatability 0.02 mm)</li> <li><input type="checkbox"/> High reliability (industrial design)</li> <li><input type="checkbox"/> Jerk-free straight movements</li> <li><input type="checkbox"/> Low ELF interference (the closed metallic construction shields against motor control fields)</li> <li><input type="checkbox"/> 6-axis controller</li> </ul>	
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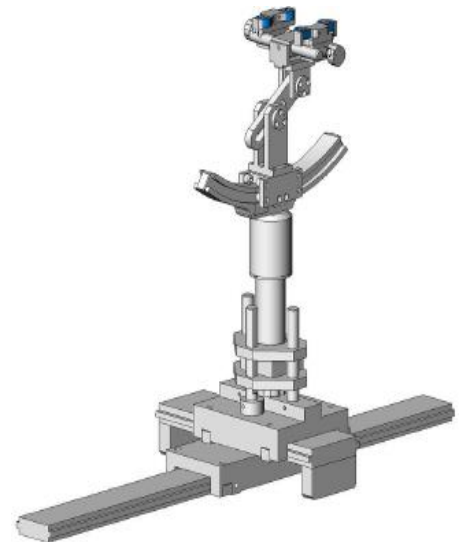
### 3.4. Video Positioning System

The video positioning system is used in OpenSAR to check the probe. Which is composed of a camera, LED, mirror and mechanical parts. The camera is piloted by the main computer with firewire link. During the process, the actual position of the probe tip with respect to the robot arm is measured, as well as the probe length and the horizontal probe offset. The software then corrects all movements, such that the robot coordinates are valid for the probe tip. The repeatability of this process is better than 0.1 mm. If a position has been taught with an aligned probe, the same position will be reached with another aligned probe within 0.1 mm, even if the other probe has different dimensions. During probe rotations, the probe tip will keep its actual position.



### 3.5. Device Holder

The COMOSAR device holder is designed to cope with different positions given in the standard. It has two scales for the device rotation (with respect to the body axis) and the device inclination (with respect to the line between the ear reference points). The rotation center for both scales is the ear reference point (EPR). Thus the device needs no repositioning when changing the angles. The COMOSAR device holder has been made out of low-loss POM material having the following dielectric parameters: relative permittivity  $\epsilon_r = 3$  and loss tangent  $\delta = 0.02$ . The amount of dielectric material has been reduced in the closest vicinity of the device, since measurements have suggested that the influence of the clamp on the test results could thus be lowered.



### 3.6. SAM Twin Phantom

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

- Left head
- Right head
- Flat phantom



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

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## 4. SAR MEASUREMENT PROCEDURE

### 4.1. Specific Absorption Rate (SAR)

SAR is related to the rate at which energy is absorbed per unit mass in 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 occupational/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.

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 given mass density (ρ). The equation description is as below:

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

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

SAR can be obtained using either of the following equations:

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

$$SAR = c_h \left. \frac{dT}{dt} \right|_{t=0}$$

Where

SAR	is the specific absorption rate in watts per kilogram;
E	is the r.m.s. value of the electric field strength in the tissue in volts per meter;
σ	is the conductivity of the tissue in siemens per metre;
ρ	is the density of the tissue in kilograms per cubic metre;
c <sub>h</sub>	is the heat capacity of the tissue in joules per kilogram and Kelvin;

$\left. \frac{dT}{dt} \right|_{t=0}$  is the initial time derivative of temperature in the tissue in kelvins per second

## 4.2. SAR Measurement Procedure

### Step 1: Power Reference Measurement

The Power Reference Measurement and Power Drift Measurement are for monitoring the power drift of the device under test in the batch process. The minimum distance of probe sensors to surface is 2.7mm This distance cannot be smaller than the distance os sensor calibration points to probe tip as defined in the probe properties,

### Step 2: Area Scan

The Area Scan is used as a fast scan in two dimensions to find the area of high field values, before doing a fine measurement around the hot spot. The sophisticated interpolation routines implemented in SATIMO software can find the maximum locations even in relatively coarse grids. When an Area Scan has measured all reachable points, it computes the field maximal found in the scanned area, within a range of the global maximum. The range (in db) is specified in the standards for compliance testing. For example, a 2db range is required in IEEE Standard 1528 standards, whereby 3db is a requirement when compliance is assessed in accordance with the ARIB standard (Japan) If one Zoom Scan follows the Area Scan, then only the absolute maximum will be taken as reference. For cases where multiple maximum are detected, the number of Zoom Scan has to be increased accordingly.

Area Scan Parameters extracted from KDB 865664 D01 SAR Measurement 100MHz to 6GHz

	≤ 3 GHz	> 3 GHz
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface	5 ± 1 mm	$\frac{1}{2} \cdot \delta \cdot \ln(2) \pm 0.5$ mm
Maximum probe angle from probe axis to phantom surface normal at the measurement location	30° ± 1°	20° ± 1°
Maximum area scan spatial resolution: $\Delta x_{Area}$ , $\Delta y_{Area}$	≤ 2 GHz: ≤ 15 mm 2 – 3 GHz: ≤ 12 mm	3 – 4 GHz: ≤ 12 mm 4 – 6 GHz: ≤ 10 mm
	When the x or y dimension of the test device, in the measurement plane orientation, is smaller than the above, the measurement resolution must be ≤ the corresponding x or y dimension of the test device with at least one measurement point on the test device.	

### Step 3: Zoom Scan

Zoom Scan are used to assess the peak spatial SAR value within a cubic average volume containing 1g abd 10g of simulated tissue. The Zoom Scan measures points(refer to table below) within a cube whose base faces are centered on the maxima found in a preceding area scan job within the same procedure. When the measurement is done, the Zoom Scan evaluates the averaged SAR for 1g and 10g and displays these values next to the job's label.

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Zoom Scan Parameters extracted from KDB865664 d01 SAR Measurement 100MHz to 6GHz

Maximum zoom scan spatial resolution: $\Delta x_{Zoom}$ , $\Delta y_{Zoom}$		$\leq 2$ GHz: $\leq 8$ mm 2 – 3 GHz: $\leq 5$ mm*	3 – 4 GHz: $\leq 5$ mm* 4 – 6 GHz: $\leq 4$ mm*
Maximum zoom scan spatial resolution, normal to phantom surface	uniform grid: $\Delta z_{Zoom}(n)$	$\leq 5$ mm	3 – 4 GHz: $\leq 4$ mm 4 – 5 GHz: $\leq 3$ mm 5 – 6 GHz: $\leq 2$ mm
	graded grid	$\Delta z_{Zoom}(1)$ : between 1 <sup>st</sup> two points closest to phantom surface	$\leq 4$ mm
		$\Delta z_{Zoom}(n>1)$ : between subsequent points	$\leq 1.5 \cdot \Delta z_{Zoom}(n-1)$
Minimum zoom scan volume	x, y, z	$\geq 30$ mm	3 – 4 GHz: $\geq 28$ mm 4 – 5 GHz: $\geq 25$ mm 5 – 6 GHz: $\geq 22$ mm
<p>Note: <math>\delta</math> is the penetration depth of a plane-wave at normal incidence to the tissue medium; see draft standard IEEE P1528-2011 for details.</p> <p>* When zoom scan is required and the <i>reported</i> SAR from the <i>area scan based 1-g SAR estimation</i> procedures of KDB 447498 is <math>\leq 1.4</math> W/kg, <math>\leq 8</math> mm, <math>\leq 7</math> mm and <math>\leq 5</math> mm zoom scan resolution may be applied, respectively, for 2 GHz to 3 GHz, 3 GHz to 4 GHz and 4 GHz to 6 GHz.</p>			

Step 4: Power Drift Measurement

The Power Drift Measurement measures the field at the same location as the most recent power reference measurement within the same procedure, and with the same settings. The Power Drift Measurement gives the field difference in dB from the reading conducted within the same settings. This allows a user to monitor the power drift of the device under test within a batch process. The measurement procedure is the same as Step 1.

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### 4.3. RF Exposure Conditions

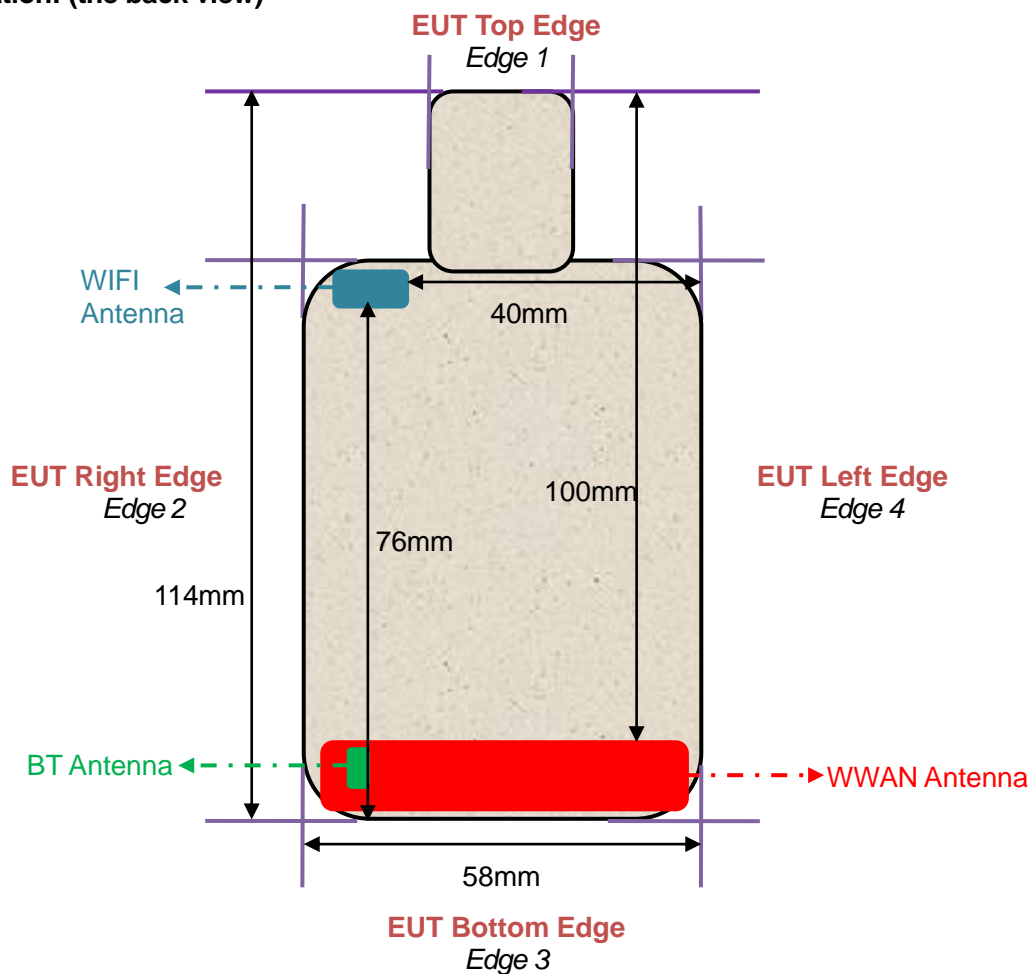
Test Configuration and setting:

The EUT is a model of GSM Portable Mobile Station (MS). It supports WCDMA/HSPA, LTE, BT, WIFI, and support hot spot mode.

For WWAN SAR testing, the device was controlled by using a base station emulator. Communication between the device and the emulator were established by air link. The distance between the EUT and the antenna is larger than 50cm, and the output power radiated from the emulator antenna is at least 30db smaller than the output power of EUT.

For WLAN testing, the EUT is configured with the WLAN continuous TX tool through engineering command.

#### Antenna Location: (the back view)



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## 5. TISSUE SIMULATING LIQUID

For SAR measurement of the field distribution inside the phantom, the phantom must be filled with homogeneous tissue simulating liquid to a depth of at least 15cm. For head SAR testing the liquid height from the ear reference point (ERP) of the phantom to the liquid top surface is larger than 15cm For body SAR testing, the liquid height from the center of the flat phantom to the liquid top surface is larger than 15cm. The nominal dielectric values of the tissue simulating liquids in the phantom and the tolerance of 10% are listed in 6.2

### 5.1. The composition of the tissue simulating liquid

Ingredient (% Weight) Frequency (MHz)	Water	NaCl	Polysorbate 20	DGBE	1,2- Propanediol	Triton X-100	Diethylen glycol monohex ylether
750 Head	35	2	0.0	0.0	63	0.0	0.0
835 Head	50.36	1.25	48.39	0.0	0.0	0.0	0.0
1750 Head	52.64	0.36	0.0	47	0.0	0.0	0.0
1900 Head	54.9	0.18	0.0	44.92	0.0	0.0	0.0
2450 Head	71.88	0.16	0.0	7.99	0.0	19.97	0.0
5000 Head	65.52	0.0	0.0	0.0	0.0	17.24	17.24

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## 5.2. Tissue Dielectric Parameters for Head and Body Phantoms

The head and body tissue dielectric parameters recommended by the IEEE Std. 1528 have been incorporated in the following table.

Target Frequency (MHz)	head		body	
	$\epsilon_r$	$\sigma$ (S/m)	$\epsilon_r$	$\sigma$ (S/m)
300	45.3	0.87	45.3	0.87
450	43.5	0.87	43.5	0.87
<b>750</b>	<b>41.9</b>	<b>0.89</b>	<b>41.9</b>	<b>0.89</b>
<b>835</b>	<b>41.5</b>	<b>0.90</b>	<b>41.5</b>	<b>0.90</b>
900	41.5	0.97	41.5	0.97
915	41.5	1.01	41.5	1.01
1450	40.5	1.20	40.5	1.20
1610	40.3	1.29	40.3	1.29
<b>1750</b>	<b>40.1</b>	<b>1.37</b>	<b>40.1</b>	<b>1.37</b>
<b>1800 – 2000</b>	<b>40.0</b>	<b>1.40</b>	<b>40.0</b>	<b>1.40</b>
2300	39.5	1.67	39.5	1.67
<b>2450</b>	<b>39.2</b>	<b>1.80</b>	<b>39.2</b>	<b>1.80</b>
2600	39.0	1.96	39.0	1.96
3000	38.5	2.40	38.5	2.40
<b>5200</b>	<b>36.0</b>	<b>4.66</b>	<b>36.0</b>	<b>4.66</b>
5300	<b>35.9</b>	<b>4.76</b>	<b>35.9</b>	<b>4.76</b>
5600	<b>35.5</b>	<b>5.07</b>	<b>35.5</b>	<b>5.07</b>
<b>5800</b>	<b>35.3</b>	<b>5.27</b>	<b>35.3</b>	<b>5.27</b>

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

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### 5.3. Tissue Calibration Result

The dielectric parameters of the liquids were verified prior to the SAR evaluation using SATIMO Dielectric Probe Kit and R&S Network Analyzer ZVL6.

Tissue Stimulant Measurement for 750MHz					
	Fr. (MHz)	Dielectric Parameters ( $\pm 10\%$ )		Tissue Temp [°C]	Test time
		$\epsilon_r$ 41.9 (37.71-46.09)	$\delta$ [s/m] 0.89(0.801-0.979)		
Head	683	43.66	0.81	20.5	Dec. 09, 2023
	707.5	41.22	0.83		
	750	40.13	0.87		
	782	39.61	0.89		
	793	38.43	0.91		

Tissue Stimulant Measurement for 835MHz					
	Fr. (MHz)	Dielectric Parameters ( $\pm 10\%$ )		Tissue Temp [°C]	Test time
		$\epsilon_r$ 41.5 (37.35-45.65)	$\delta$ [s/m] 0.90(0.81-0.99)		
Head	835	41.28	0.91	21.7	Dec. 05, 2023
	836.4	40.72	0.92		
	836.5	40.72	0.92		

Tissue Stimulant Measurement for 1750MHz					
	Fr. (MHz)	Dielectric Parameters ( $\pm 10\%$ )		Tissue Temp [°C]	Test time
		$\epsilon_r$ 40.1 (36.09-44.11)	$\delta$ [s/m]1.37(1.233-1.507)		
Head	1732.4	40.92	1.36	21.2	Dec. 20, 2023
	1732.5	40.92	1.36		
	1750	39.45	1.41		
	1755	38.16	1.44		

Tissue Stimulant Measurement for 1900MHz					
	Fr. (MHz)	Dielectric Parameters ( $\pm 10\%$ )		Tissue Temp [°C]	Test time
		$\epsilon_r$ 40.00(36.00-44.00)	$\delta$ [s/m]1.40(1.26-1.54)		
Head	1880	40.36	1.40	20.3	Dec. 01, 2023
	1900	39.09	1.42		

Tissue Stimulant Measurement for 2450MHz					
	Fr. (MHz)	Dielectric Parameters ( $\pm 10\%$ )		Tissue Temp [°C]	Test time
		$\epsilon_r$ 39.2(35.28-43.12)	$\delta$ [s/m]1.80(1.62-1.98)		
Head	2437	40.36	1.79	20.8	Dec. 22, 2023
	2450	39.47	1.81		

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Tissue Stimulant Measurement for 5200MHz					
Head	Fr. (MHz)	Dielectric Parameters ( $\pm 10\%$ )		Tissue Temp [°C]	Test time
		$\epsilon_r$	$\delta$ [s/m]		
		36.0(32.4-39.6)	4.66(4.194 -5.126)		
	5200	36.21	4.50	19.8	Dec. 13, 2023

Tissue Stimulant Measurement for 5300MHz					
Head	Fr. (MHz)	Dielectric Parameters ( $\pm 5\%$ )		Tissue Temp [°C]	Test time
		$\epsilon_r$	$\delta$ [s/m]		
		35.9(34.105-37.695)	4.76(4.522-4.998)		
	5300	36.59	4.91	21.0	Dec. 14, 2023

Tissue Stimulant Measurement for 5600MHz					
Head	Fr. (MHz)	Dielectric Parameters ( $\pm 5\%$ )		Tissue Temp [°C]	Test time
		$\epsilon_r$	$\delta$ [s/m]		
		35.5(33.725-37.275)	5.07(4.8165-5.3235)		
	5600	36.55	5.14	21.0	Dec. 15, 2023

Tissue Stimulant Measurement for 5800MHz					
Head	Fr. (MHz)	Dielectric Parameters ( $\pm 10\%$ )		Tissue Temp [°C]	Test time
		$\epsilon_r$	$\delta$ [s/m]		
		35.3 (31.77-38.83)	5.27 (4.743-5.797)		
	5785	36.46	5.22	21.3	Dec. 16, 2023
	5800	35.23	5.25		

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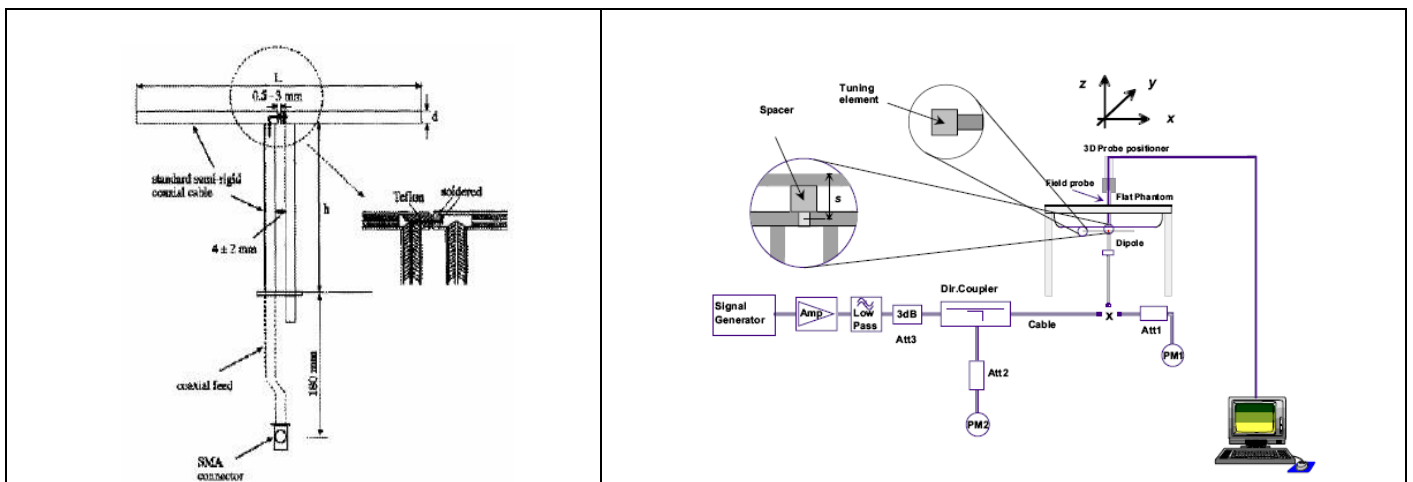
## 6. SAR SYSTEM CHECK PROCEDURE

### 6.1. SAR System Check Procedures

SAR system check is required to confirm measurement accuracy, according to the tissue dielectric media, probe calibration points and other system operating parameters required for measuring the SAR of a test device. The system verification must be performed for each frequency band and within the valid range of each probe calibration point required for testing the device. The same SAR probe(s) and tissue-equivalent media combinations used with each specific SAR system for system verification must be used for device testing. When multiple probe calibration points are required to cover substantially large transmission bands, independent system verifications are required for each probe calibration point. A system verification must be performed before each series of SAR measurements using the same probe calibration point and tissue-equivalent medium. Additional system verification should be considered according to the conditions of the tissue-equivalent medium and measured tissue dielectric parameters, typically every three to four days when the liquid parameters are remeasured or sooner when marginal liquid parameters are used at the beginning of a series of measurements.

Each SATIMO system is equipped with one or more system check kits. These units, together with the predefined measurement procedures within the SATIMO software, enable the user to conduct the system check and system validation. System kit includes a dipole, and dipole device holder.

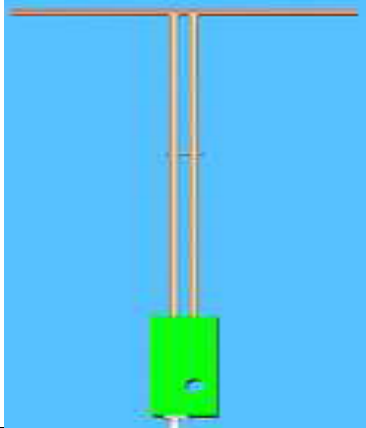

The system check verifies that the system operates within its specifications. It's performed daily or before every SAR measurement. The system check uses normal SAR measurement in the flat section of the phantom with a matched dipole at a specified distance. The system check setup is shown as below.



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## 6.2. SAR System Check

### 6.2.1. Dipoles

	<p>The dipoles are based on the IEEE-1528 standard, and are complied with mechanical and electrical specifications in line with the requirements of IEEE. the table below provides details for the mechanical and electrical Specifications for the dipoles.</p>
	<p>The dipole is based on the IEEE-1528 standard, and is complied with mechanical and electrical specifications in line with the requirements of IEEE. The table below provides details for the mechanical and electrical specifications for the wave guide.</p>

Frequency	L (mm)	h (mm)	d (mm)
750MHz	176	100	6.35
835MHz	161.0	89.8	3.6
1800MHz	71.6	41.7	3.6
1900MHz	68	39.5	3.6
2450MHz	51.5	30.4	3.6
5000MHz	20.6	40.3	3.6

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### 6.2.2. System Check Result

System Performance Check at 750MHz&835MHz &1800MHz &1900MHz &2450MHz& 5200-5800MHz for Head								
Validation Kit: SN 22/16 DIP 0G750-417& SN 15/16 DIP 0G835-399& SN 46/11 DIP 1G800-186& SN 29/15 DIP 1G900-389& SN 29/15 DIP 2G450-393& SN 17/22 DIP 5G000-671								
Frequency [MHz]	Target Value(W/kg)		Reference Result ( $\pm 10\%$ )		Tested Value(W/kg)		Tissue Temp. [°C]	Test time
	1g	10g	1g	10g	1g	10g		
750	8.33	5.44	7.497-9.163	4.896-5.984	8.95	5.64	20.5	Dec. 09, 2023
835	9.67	6.14	8.703-10.637	5.526-6.754	9.61	6.14	21.7	Dec. 05, 2023
1800	37.76	19.60	33.984-41.536	17.640-21.560	40.62	20.57	21.2	Dec. 20, 2023
1900	41.26	20.86	37.134-45.386	18.774-22.946	42.33	20.56	20.3	Dec. 01, 2023
2450	54.32	24.25	48.888-59.752	21.825-26.675	52.89	23.69	20.8	Dec. 22, 2023
5200	73.43	21.83	66.087-80.773	19.647-24.013	74.22	21.20	19.8	Dec. 13, 2023
5200	73.43	21.83	66.087-80.773	19.647-24.013	77.79	22.41	21.0	Dec. 14, 2023
5600	78.20	24.12	70.380-86.02	21.708-26.532	82.33	23.29	21.0	Dec. 15, 2023
5800	75.69	22.44	68.121-83.259	20.196-24.684	80.65	23.23	21.3	Dec. 16, 2023

Note:

(1) We use a CW signal of 18dBm for system check, and then all SAR value are normalized to 1W forward power. The result must be within  $\pm 10\%$  of target value.

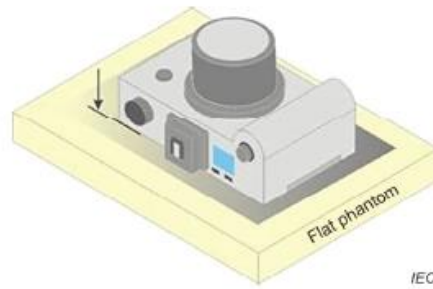
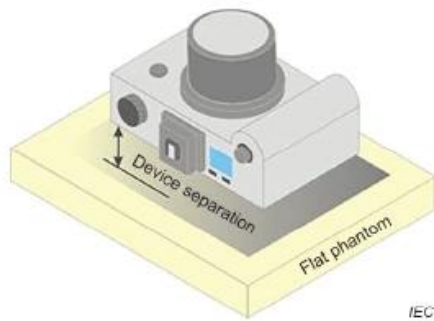
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## 7. EUT TEST POSITION

This EUT was tested in **Body back**.

### 7.1. Test Position

- (1) To position the EUT parallel to the phantom surface.
- (2) To adjust the EUT parallel to the flat phantom.
- (3) To adjust the distance between the EUT surface and the flat phantom to **0mm**.



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## 8. SAR EXPOSURE LIMITS

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

Type Exposure	Uncontrolled Environment Limit (W/kg)
Spatial Peak SAR (1g cube tissue for brain or body)	1.60
Spatial Average SAR (Whole body)	0.08
Spatial Peak SAR (Limbs)	4.0

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## 9. TEST FACILITY

<b>Test Site</b>	Attestation of Global Compliance (Shenzhen) Co., Ltd
<b>Location</b>	1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China
<b>Designation Number</b>	CN1259
<b>FCC Test Firm Registration Number</b>	975832
<b>A2LA Cert. No.</b>	5054.02
<b>Description</b>	Attestation of Global Compliance(Shenzhen) Co., Ltd is accredited by A2LA

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## 10. TEST EQUIPMENT LIST

Equipment description	Manufacturer/ Model	Identification No.	Software version	Current calibration date	Next calibration date
SAR Probe	MVG	2023-EPGO-414	N/A	May 31, 2023	May 30, 2024
Phantom	SATIMO	SN_4511_SAM90	N/A	Validated. No cal required.	Validated. No cal required.
Liquid	SATIMO	N/A	N/A	Validated. No cal required.	Validated. No cal required.
Comm Tester	Agilent-8960	GB46310822	A.13.07	Jun. 03, 2023	Jun. 02, 2024
Comm Tester	R&S- CMW500	121209	V3.7.40	Jun. 01, 2023	May 31, 2024
Multimeter	Keithley 2000	1350784	N/A	Jun. 02, 2023	Jun. 01, 2024
SAR Software	SATIMO-OpenSAR	N/A	OpenSAR V4_02_32	N/A	N/A
Dipole	SATIMO SID750	SN 22/16 DIP 0G750-417	N/A-	Apr. 28,2022	Apr. 27,2025
Dipole	SATIMO SID835	SN 15/16 DIP 0G835-399	N/A	Apr. 28,2022	Apr. 27,2025
Dipole	SATIMO SID1800	SN 46/11 DIP 1G800-186	N/A	Apr. 28,2022	Apr. 27,2025
Dipole	SATIMO SID1900	SN 29/15 DIP 1G900-389	N/A	Apr. 28,2022	Apr. 27,2025
Dipole	SATIMO SID2450	SN 29/15 DIP 2G450-393	N/A	Apr. 28,2022	Apr. 27,2025
Dipole	SID5000	SN 17/22 DIP 5G000-671	N/A	Apr. 28,2022	Apr. 27, 2025
Signal Generator	Agilent-E4438C	US41461365	V5.03	Jun. 01, 2023	May 31, 2024
Vector Analyzer	Agilent / E4440A	MY44303916	N/A	Jun. 01, 2023	May 31, 2024
Network Analyzer	Rhode & Schwarz ZVL6	SN101443	3.2	Sep. 21, 2023	Sep. 20, 2024
Attenuator	Warison /WATT-6SR1211	S/N:WRJ34AYM2F1	N/A	June 07, 2023	June 06, 2024
Attenuator	Mini-circuits / VAT-10+	31405	N/A	June 07, 2023	June 06, 2024
Amplifier	AS0104-55_55	1004793	N/A	N/A	N/A
Directional Couple	Werlatone/ C5571-10	SN99463	N/A	Mar. 10, 2022	Mar. 09, 2024
Directional Couple	Werlatone/ C6026-10	SN99482	N/A	Mar. 10, 2022	Mar. 09, 2024
Power Sensor	NRP-Z21	1137.6000.02	N/A	Sep. 05, 2023	Sep. 04, 2024
Power Sensor	NRP-Z23	100323	N/A	Feb. 15, 2023	Feb. 14, 2024
Power Viewer	R&S	V2.3.1.0	N/A	N/A	N/A
Calibration standard parts for network sub - port	R&S/ ZV-Z132	N/A	V2.3.1.0	Nov. 11, 2023	Nov. 10, 2024

Note: Per KDB 865664 Dipole SAR Validation, AGC Lab has adopted 3 years calibration intervals. On annual basis, every measurement dipole has been evaluated and is in compliance with the following criteria:

1. There is no physical damage on the dipole;
2. System validation with specific dipole is within 10% of calibrated value;
3. Return-loss is within 20% of calibrated measurement;
4. Impedance is within 5Ω of calibrated measurement.

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## 11. MEASUREMENT UNCERTAINTY

SATIMO Uncertainty- 2023-EPGO-414 Measurement uncertainty for DUT averaged over 1 gram / 10 gram.									
Uncertainty Component	Sec.	Tol (+-%)	Prob. Dist.	Div.	Ci (1g)	Ci (10g)	1g Ui (+-%)	10g Ui (+-%)	vi
<b>Measurement System</b>									
Probe calibration	E.2.1	7.000	N	1	1	1	7.000	7.000	∞
Axial Isotropy	E.2.2	1.695	R	1.732	0.707	0.707	0.692	0.692	∞
Hemispherical Isotropy	E.2.2	1.695	R	1.732	0.707	0.707	0.692	0.692	∞
Boundary effect	E.2.3	1.000	R	1.732	1	1	0.577	0.577	∞
Linearity	E.2.4	2.250	R	1.732	1	1	1.299	1.299	∞
System detection limits	E.2.4	1.000	R	1.732	1	1	0.577	0.577	∞
Modulation response	E.2.5	3.000	R	1.732	1	1	1.732	1.732	∞
Readout Electronics	E.2.6	0.021	N	1	1	1	0.021	0.021	∞
Response Time	E.2.7	0.000	R	1.732	1	1	0.000	0.000	∞
Integration Time	E.2.8	1.400	R	1.732	1	1	0.808	0.808	∞
RF ambient conditions-Noise	E.6.1	3.000	R	1.732	1	1	1.732	1.732	∞
RF ambient conditions-reflections	E.6.1	3.000	R	1.732	1	1	1.732	1.732	∞
Probe positioner mechanical tolerance	E.6.2	1.400	R	1.732	1	1	0.808	0.808	∞
Probe positioning with respect to phantom shell	E.6.3	1.400	R	1.732	1	1	0.808	0.808	∞
Extrapolation, interpolation, and integrations algorithms for max. SAR evaluation	E.5	2.300	R	1.732	1	1	1.328	1.328	∞
<b>Test sample Related</b>									
Test sample positioning	E.4.2	2.6	N	1	1	1	2.60	2.60	∞
Device holder uncertainty	E.4.1	3	N	1	1	1	3.00	3.00	∞
Output power variation—SAR drift measurement	E.2.9	5	R	1.732	1	1	2.89	2.89	∞
SAR scaling	E.6.5	5	R	1.732	1	1	2.89	2.89	∞
<b>Phantom and tissue parameters</b>									
Phantom shell uncertainty—shape, thickness, and permittivity	E.3.1	4	R	1.732	1	1	2.309	2.309	∞
Uncertainty in SAR correction for deviations in permittivity and conductivity	E.3.2	1.9	N	1	1	0.84	1.900	1.596	∞
Liquid conductivity measurement	E.3.3	4	N	1	0.78	0.71	3.120	2.840	M
Liquid permittivity measurement	E.3.3	5	N	1	0.23	0.26	1.150	1.300	M
Liquid conductivity—temperature uncertainty	E.3.4	2.5	R	1.732	0.78	0.71	1.126	1.025	∞
Liquid permittivity—temperature uncertainty	E.3.4	2.5	R	1.732	0.23	0.26	0.332	0.375	∞
Combined Standard Uncertainty			RSS				10.616	10.432	
Expanded Uncertainty (95% Confidence interval)			K=2				21.232	20.865	

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SATIMO Uncertainty- 2023-EPGO-414									
System Validation uncertainty for DUT averaged over 1 gram / 10 gram.									
Uncertainty Component	Sec.	Tol (+-%)	Prob. Dist.	Div.	Ci (1g)	Ci (10g)	1g Ui (+-%)	10g Ui (+-%)	vi
<b>Measurement System</b>									
Probe calibration	E.2.1	7.000	N	1	1	1	7.000	7.000	∞
Axial Isotropy	E.2.2	1.695	R	1.732	1.000	1.000	0.979	0.979	∞
Hemispherical Isotropy	E.2.2	1.695	R	1.732	0.000	0.000	0.000	0.000	∞
Boundary effect	E.2.3	1.000	R	1.732	1.000	1.000	0.577	0.577	∞
Linearity	E.2.4	2.250	R	1.732	1.000	1.000	1.299	1.299	∞
System detection limits	E.2.4	1.000	R	1.732	1.000	1.000	0.577	0.577	∞
Modulation response	E.2.5	3.000	R	1.732	0.000	0.000	0.000	0.000	∞
Readout Electronics	E.2.6	0.021	N	1.000	1.000	1.000	0.021	0.021	∞
Response Time	E.2.7	0.000	R	1.732	0.000	0.000	0.000	0.000	∞
Integration Time	E.2.8	1.400	R	1.732	0.000	0.000	0.000	0.000	∞
RF ambient conditions-Noise	E.6.1	3.000	R	1.732	1.000	1.000	1.732	1.732	∞
RF ambient conditions-reflections	E.6.1	3.000	R	1.732	1.000	1.000	1.732	1.732	∞
Probe positioner mechanical tolerance	E.6.2	1.400	R	1.732	1.000	1.000	0.808	0.808	∞
Probe positioning with respect to phantom shell	E.6.3	1.400	R	1.732	1.000	1.000	0.808	0.808	∞
Extrapolation, interpolation, and integrations algorithms for max. SAR evaluation	E.5	2.300	R	1.732	1.000	1.000	1.328	1.328	∞
<b>System validation source</b>									
Deviation of experimental dipole from numerical dipole	E.6.4	5	N	1	1	1	5	5	∞
Input power and SAR drift measurement	8,6.6.4	5	R	1.732	1	1	2.887	2.887	∞
Dipole axis to liquid distance	8,E.6.6	2	R	1.732	1	1	1.155	1.155	∞
<b>Phantom and set-up</b>									
Phantom shell uncertainty—shape, thickness, and permittivity	E.3.1	4	R	1.732	1	1	2.309	2.309	∞
Uncertainty in SAR correction for deviations in permittivity and conductivity	E.3.2	1.9	N	1	1	0.84	1.9	1.596	∞
Liquid conductivity (temperature uncertainty)	E.3.3	4	N	1	0.78	0.71	3.12	2.84	∞
Liquid conductivity (measured)	E.3.3	5	N	1	0.23	0.26	1.15	1.3	M
Liquid permittivity (temperature uncertainty)	E.3.4	2.5	R	1.732	0.78	0.71	1.126	1.025	∞
Liquid permittivity (measured)	E.3.4	2.5	R	1.732	0.23	0.26	0.332	0.375	M
Combined Standard Uncertainty			RSS				10.572	10.387	
Expanded Uncertainty (95% Confidence interval)			K=2				21.143	20.775	

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SATIMO Uncertainty- 2023-EPGO-414									
System Check uncertainty for DUT averaged over 1 gram / 10 gram.									
Uncertainty Component	Sec.	Tol (+-%)	Prob. Dist.	Div.	Ci (1g)	Ci (10g)	1g Ui (+-%)	10g Ui (+-%)	vi
<b>Measurement System</b>									
Probe calibration drift	E.2.1.3	0.5	N	1	1	1	0.5	0.5	∞
Axial Isotropy	E.2.2	1.695	R	$\sqrt{3}$	0	0	0	0	∞
Hemispherical Isotropy	E.2.2	1.695	R	$\sqrt{3}$	0	0	0	0	∞
Boundary effect	E.2.3	1.000	R	$\sqrt{3}$	0	0	0	0	∞
Linearity	E.2.4	2.250	R	$\sqrt{3}$	0	0	0	0	∞
System detection limits	E.2.4	1	R	$\sqrt{3}$	0	0	0	0	∞
Modulation response	E.2.5	3	R	$\sqrt{3}$	0	0	0	0	∞
Readout Electronics	E.2.6	0.021	N	$\sqrt{3}$	0	0	0	0	∞
Response Time	E.2.7	0	R	$\sqrt{3}$	0	0	0	0	∞
Integration Time	E.2.8	1.4	R	$\sqrt{3}$	0	0	0	0	∞
RF ambient conditions-Noise	E.6.1	3	R	$\sqrt{3}$	0	0	0	0	∞
RF ambient conditions-reflections	E.6.1	3	R	$\sqrt{3}$	0	0	0	0	∞
Probe positioner mechanical tolerance	E.6.2	1.4	R	$\sqrt{3}$	1	1	0.81	0.81	∞
Probe positioning with respect to phantom shell	E.6.3	1.4	R	$\sqrt{3}$	1	1	0.81	0.81	∞
Extrapolation, interpolation, and integrations algorithms for max. SAR evaluation	E.5	2.3	R	$\sqrt{3}$	0	0	0	0.00	∞
<b>System check source (dipole)</b>									
Deviation of experimental dipoles	E.6.4	2	N	1	1	1	2	2	∞
Input power and SAR drift measurement	8,6.6.4	5	R	$\sqrt{3}$	1	1	2.89	2.89	∞
Dipole axis to liquid distance	8,E.6.6	2	R	$\sqrt{3}$	1	1	1.15	1.15	∞
<b>Phantom and tissue parameters</b>									
Phantom shell uncertainty—shape, thickness, and permittivity	E.3.1	4	R	$\sqrt{3}$	1	1	2.31	2.31	∞
Uncertainty in SAR correction for deviations in permittivity and conductivity	E.3.2	1.9	N	1.000	1	0.84	1.90	1.60	∞
Liquid conductivity measurement	E.3.3	4	N	1.000	0.78	0.71	3.12	2.84	∞
Liquid permittivity measurement	E.3.3	5	N	1.000	0.23	0.26	1.15	1.30	M
Liquid conductivity—temperature uncertainty	E.3.4	2.5	R	$\sqrt{3}$	0.78	0.71	1.13	1.02	∞
Liquid permittivity—temperature uncertainty	E.3.4	2.5	R	$\sqrt{3}$	0.23	0.26	0.33	0.38	M
Combined Standard Uncertainty			RSS				5.562	5.203	
Expanded Uncertainty (95% Confidence interval)			K=2				11.124	10.406	

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## 12. CONDUCTED POWER MEASUREMENT

### UMTS BAND

#### HSDPA Setup Configuration:

- The EUT was connected to Base Station Agilent-8960 referred to the Setup Configuration.
- The RF path losses were compensated into the measurements.
- A call was established between EUT and Based Station with following setting:
  - (1) Set Gain Factors( $\beta_c$  and  $\beta_d$ ) parameters set according to each
  - (2) Set RMC 12.2Kbps+HSDPA mode.
  - (3) Set Cell Power=-86dBm
  - (4) Set HS-DSCH Configuration Type to FRC (H-set 1, QPSK)
  - (5) Select HSDPA Uplink Parameters
  - (6) Set Delta ACK, Delta NACK and Delta CQI=8
  - (7) Set Ack - Nack Repetition Factor to 3
  - (8) Set CQI Feedback Cycle (k) to 4ms
  - (9) Set CQI Repetition Factor to 2
  - (10) Power Ctrl Mode=All Up bits
- The transmitted maximum output power was recorded.

Table C.10.2.4:  $\beta$  values for transmitter characteristics tests with HS-DPCCH

Sub-test	$\beta_c$ (Note5)	$\beta_d$	$\beta_d$ (SF)	$\beta_c/\beta_d$	$\beta_{HS}$ (Note1, Note 2)	CM (dB) (Note 3)	MPR (dB) (Note 3)
1	2/15	15/15	64	2/15	4/15	0.0	0.0
2	12/15(Note 4)	15/15(Note 4)	64	12/15(Note 4)	24/15	1.0	0.0
3	15/15	8/15	64	15/8	30/15	1.5	0.5
4	15/15	4/15	64	15/4	30/15	1.5	0.5

Note 1:  $\Delta ACK$ ,  $\Delta NACK$  and  $\Delta CQI = 30/15$  with  $\beta_{hs} = 30/15 * \beta_c$ .

Note 2: For the HS-DPCCH power mask requirement test in clause 5.2C, 5.7A, and the Error Vector Magnitude (EVM) with HS-DPCCH test in clause 5.13.1A, and HSDPA EVM with phase discontinuity in clause 5.13.1AA,  $\Delta ACK$  and  $\Delta NACK = 30/15$  with  $\beta_{hs} = 30/15 * \beta_c$ , and  $\Delta CQI = 24/15$  with  $\beta_{hs} = 24/15 * \beta_c$ .

Note 3: CM = 1 for  $\beta_c/\beta_d = 12/15$ ,  $hs/c = 24/15$ . For all other combinations of DPDCH, DPCCH and HS-DPCCH the MPR is based on the relative CM difference. This is applicable for only UEs that support HSDPA in release 6 and later releases.

Note 4: For subtest 2 the  $c/d$  ratio of 12/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to  $c = 11/15$  and  $d = 15/15$ .

**HSUPA Setup Configuration:**

- The EUT was connected to Base Station Agilent-8960 referred to the Setup Configuration.
- The RF path losses were compensated into the measurements.
- A call was established between EUT and Base Station with following setting \* :
  - (1) Call Configs = 5.2B, 5.9B, 5.10B, and 5.13.2B with QPSK
  - (2) Set the Gain Factors ( $\beta_c$  and  $\beta_d$ ) and parameters (AG Index) were set according to each specific sub-test in the following table, C11.1.3, quoted from the TS 34.121
  - (3) Set Cell Power = -86 dBm
  - (4) Set Channel Type = 12.2k + HSPA
  - (5) Set UE Target Power
  - (6) Power Ctrl Mode= Alternating bits
  - (7) Set and observe the E-TFCI
  - (8) Confirm that E-TFCI is equal to the target E-TFCI of 75 for sub-test 1, and other subtest's E-TFCI
- The transmitted maximum output power was recorded.

Table C.11.1.3:  $\beta$  values for transmitter characteristics tests with HS-DPCCH and E-DCH

Sub-test	$\beta_c$	$\beta_d$	$\beta_d$ (SF)	$\beta_c/\beta_d$	$\beta_{HS}$ (Note 1)	$\beta_{ec}$	$\beta_{ed}$ (Note 4) (Note 5)	$\beta_{ed}$ (SF)	$\beta_{ed}$ (Code s)	CM (dB) (Note 2)	MPR (dB) (Note 2) (Note 6)	AG Index (Note 5)	E-TF CI
1	11/15 (Note 3)	15/15 (Note 3)	64	11/15 (Note 3)	22/15	209/225	1309/225	4	1	1.0	0.0	20	75
2	6/15	15/15	64	6/15	12/15	12/15	94/75	4	1	3.0	2.0	12	67
3	15/15	9/15	64	15/9	30/15	30/15	$\beta_{ed1}$ : 47/15 $\beta_{ed2}$ : 47/15	4 4	2	2.0	1.0	15	92
4	2/15	15/15	64	2/15	4/15	2/15	56/75	4	1	3.0	2.0	17	71
5	15/15	0	-	-	5/15	5/15	47/15	4	1	1.0	0.0	12	67

Note 1: For sub-test 1 to 4,  $\Delta ACK$ ,  $\Delta NACK$  and  $\Delta CQI = 30/15$  with  $\beta_{hs} = 30/15 * \beta_c$ . For sub-test 5,  $\Delta ACK$ ,  $\Delta NACK$  and  $\Delta CQI = 5/15$  with  $\beta_{hs} = 5/15 * \beta_c$ .

Note 2: CM = 1 for  $\beta_c/\beta_d = 12/15$ ,  $hs/c = 24/15$ . For all other combinations of DPDCH, DPCCH, HS-DPCCH, E-DPDCH and E-DPCCH the MPR is based on the relative CM difference.

Note 3: For subtest 1 the  $c/d$  ratio of 11/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to  $c = 10/15$  and  $d = 15/15$ .

Note 4: In case of testing by UE using E-DPDCH Physical Layer category 1, Sub-test 3 is omitted according to TS25.306 Table 5.1g.

Note 5:  $\beta_{ed}$  cannot be set directly; it is set by Absolute Grant Value.

Note 6: For subtests 2, 3 and 4, UE may perform E-DPDCH power scaling at max power which could results in slightly smaller MPR values.

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**UMTS BAND II**

Mode	Frequency (MHz)	Avg. Burst Power (dBm)
WCDMA 1900 RMC	1852.4	21.98
	1880	21.68
	1907.6	21.85
HSDPA Subtest 1	1852.4	21.02
	1880	23.68
	1907.6	20.85
HSDPA Subtest 2	1852.4	20.50
	1880	23.15
	1907.6	20.37
HSDPA Subtest 3	1852.4	20.54
	1880	23.17
	1907.6	20.31
HSDPA Subtest 4	1852.4	20.52
	1880	23.16
	1907.6	20.25
HSUPA Subtest 1	1852.4	21.14
	1880	21.72
	1907.6	21.87
HSUPA Subtest 2	1852.4	21.59
	1880	22.19
	1907.6	20.37
HSUPA Subtest 3	1852.4	20.13
	1880	22.73
	1907.6	21.82
HSUPA Subtest 4	1852.4	22.13
	1880	21.73
	1907.6	21.91
HSUPA Subtest 5	1852.4	21.08
	1880	<b>23.73</b>
	1907.6	20.88

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**UMTS BAND IV**

Mode	Frequency (MHz)	Avg. Burst Power (dBm)
WCDMA 1700 RMC	1712.4	22.31
	1732.4	22.34
	1752.6	22.21
HSDPA Subtest 1	1712.4	21.26
	1732.4	20.37
	1752.6	21.37
HSDPA Subtest 2	1712.4	20.76
	1732.4	22.85
	1752.6	<b>23.93</b>
HSDPA Subtest 3	1712.4	20.78
	1732.4	22.85
	1752.6	23.82
HSDPA Subtest 4	1712.4	22.69
	1732.4	22.91
	1752.6	23.80
HSUPA Subtest 1	1712.4	20.27
	1732.4	20.37
	1752.6	22.31
HSUPA Subtest 2	1712.4	20.76
	1732.4	20.82
	1752.6	21.73
HSUPA Subtest 3	1712.4	21.25
	1732.4	21.32
	1752.6	23.25
HSUPA Subtest 4	1712.4	20.29
	1732.4	20.29
	1752.6	22.24
HSUPA Subtest 5	1712.4	21.13
	1732.4	22.21
	1752.6	20.34

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**UMTS BAND V**

Mode	Frequency (MHz)	Avg. Burst Power (dBm)
WCDMA 850 RMC	826.4	22.91
	836.4	22.99
	846.6	<b>23.01</b>
HSDPA Subtest 1	826.4	22.92
	836.4	22.66
	846.6	21.98
HSDPA Subtest 2	826.4	22.41
	836.4	21.13
	846.6	21.46
HSDPA Subtest 3	826.4	22.44
	836.4	20.17
	846.6	21.46
HSDPA Subtest 4	826.4	22.44
	836.4	20.16
	846.6	21.53
HSUPA Subtest 1	826.4	20.98
	836.4	20.88
	846.6	20.13
HSUPA Subtest 2	826.4	21.47
	836.4	20.36
	846.6	20.64
HSUPA Subtest 3	826.4	22.02
	836.4	21.81
	846.6	21.13
HSUPA Subtest 4	826.4	21.01
	836.4	21.37
	846.6	20.21
HSUPA Subtest 5	826.4	23.00
	836.4	20.54
	846.6	22.12

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According to 3GPP 25.101 sub-clause 6.2.2 , the maximum output power is allowed to be reduced by following the table.

Table 6.1aA: UE maximum output power with HS-DPCCH and E-DCH

UE Transmit Channel Configuration	CM(db)	MPR(db)
For all combinations of ,DPDCH,DPCCH HS-DPDCH,E-DPDCH and E-DPCCH	$0 \leq CM \leq 3.5$	$MAX(CM-1,0)$
Note: CM=1 for $\beta_c/\beta_d=12/15$ , $\beta_{hs}/\beta_c=24/15$ .For all other combinations of DPDCH, DPCCH, HS-DPCCH, E-DPDCH and E-DPCCH the MPR is based on the relative CM difference.		

The device supports MPR to solve linearity issues (ACLR or SEM) due to the higher peak-to average ratios (PAR) of the HSUPA signal. This prevents saturating the full range of the TX DAC inside of device and provides a reduced power output to the RF transceiver chip according to the Cubic Metric (a function of the combinations of DPDCH, DPCCH, HS-DPCCH, E-DPDCH and E-DPCCH).

When E-DPDCH channels are present the beta gains on those channels are reduced firsts to try to get the power under the allowed limit. If the beta gains are lowered as far as possible, then a hard limiting is applied at the maximum allowed level.

The SW currently recalculates the cubic metric every time the beta gains on the E-DPDCH are reduced. The cubic metric will likely get lower each time this is done .However, there is no reported reduction of maximum output power in the HSUPA mode since the device also provides a compensation for the power back-off by increasing the gain of TX\_AGC in the transceiver (PA) device.

The end effect is that the DUT output power is identical to the case where there is no MPR in the device.

**LTE Band**

Conducted Power of LTE Band 2(dBm)								
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel	
					18607	18900	19193	
1.4MHz	QPSK	1	0	0	20.17	21.04	21.05	
			3	0	20.39	21.15	21.18	
			5	0	20.37	21.07	20.92	
		3	0	0	20.17	21.20	21.16	
			2	0	20.06	21.07	20.23	
			3	0	20.26	20.92	20.38	
	6	0	1	20.25	20.13	20.14		
	16QAM	1	0	1	21.26	20.35	20.31	
			3	1	20.65	20.54	21.03	
			5	1	21.47	20.26	20.24	
		3	0	1	20.06	19.91	20.29	
			2	1	20.04	19.97	21.28	
			3	1	20.14	20.01	20.16	
		6	0	2	20.35	19.24	20.14	
		Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel
						18615	18900	19185
3MHz	QPSK	1	0	0	21.32	21.62	21.86	
			7	0	21.29	21.30	21.38	
			14	0	21.54	21.06	21.19	
		8	0	1	20.38	21.43	20.69	
			4	1	20.38	21.43	20.69	
			7	1	20.55	21.16	20.46	
	15	0	1	20.47	21.29	20.58		
	16QAM	1	0	1	20.33	21.87	21.03	
			7	1	20.28	21.51	20.64	
			14	1	20.43	21.02	20.49	
		8	0	2	19.64	21.62	19.79	
			4	2	19.51	21.74	19.88	
			7	2	19.57	21.35	19.75	
		15	0	2	19.62	21.47	19.61	

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Conducted Power of LTE Band 2(dBm)								
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel	
					18625	18900	19175	
5MHz	QPSK	1	0	0	21.18	21.84	22.12	
			13	0	21.50	20.34	21.57	
			24	0	21.64	20.89	21.24	
		12	0	1	20.32	20.45	20.90	
			6	1	20.43	21.46	20.90	
			13	1	20.62	21.04	20.43	
		25	0	1	20.52	21.22	20.64	
		16QAM	1	0	1	19.97	20.76	21.24
				13	1	20.11	21.25	20.95
	24			1	20.46	21.03	20.41	
	12		0	2	19.53	21.60	20.03	
			6	2	19.53	21.60	19.93	
			13	2	19.63	22.09	19.58	
	25	0	2	19.84	21.29	19.76		
	Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					18650	18900	19150	
10MHz	QPSK	1	0	0	21.35	21.96	23.09	
			25	0	21.98	21.60	22.68	
			49	0	22.55	21.34	21.43	
		25	0	1	20.67	22.75	21.77	
			13	1	20.67	21.76	21.77	
			25	1	21.25	21.99	20.92	
		50	0	1	21.05	22.33	21.27	
		16QAM	1	0	1	20.43	21.20	22.57
				25	1	21.13	21.10	21.99
	49			1	21.62	21.40	20.62	
	25		0	2	19.74	22.95	21.02	
			13	2	19.74	21.71	21.02	
			25	2	20.33	21.77	20.04	
	50		0	2	20.23	21.51	20.37	

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Conducted Power of LTE Band 2(dBm)								
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel	
					18675	18900	19125	
15MHz	QPSK	1	0	0	21.28	21.63	<b>23.60</b>	
			38	0	22.20	21.34	22.87	
			74	0	23.55	22.77	21.44	
		36	0	1	21.34	21.25	21.74	
			18	1	21.33	21.24	21.82	
			39	1	21.32	21.24	21.81	
		75	0	1	21.40	21.24	21.80	
		16QAM	1	0	1	20.24	21.68	22.93
				38	1	21.28	21.20	22.03
	74			1	22.54	21.91	20.51	
	36		0	2	21.33	21.25	21.82	
			18	2	21.32	21.24	21.82	
			39	2	21.40	22.24	21.81	
	75	0	2	20.37	21.33	20.87		
	Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					18700	18900	19100	
20MHz	QPSK	1	0	0	21.28	21.27	21.22	
			50	0	22.97	21.62	23.09	
			99	0	21.45	22.48	21.43	
		50	0	1	20.97	21.68	22.77	
			25	1	20.86	21.68	22.69	
			50	1	22.81	21.53	21.44	
		100	0	1	22.15	22.09	22.11	
		16QAM	1	0	1	20.55	21.47	23.09
				50	1	22.06	21.98	21.94
	99			1	21.55	21.74	20.27	
	50		0	2	20.13	22.78	21.92	
			25	2	20.02	21.79	21.84	
			50	2	21.99	23.55	20.65	
	100		0	2	21.23	21.16	21.36	

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Conducted Power of LTE Band 4(dBm)								
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel	
					19957	20175	20393	
1.4MHz	QPSK	1	0	0	20.69	21.85	21.41	
			3	0	20.59	21.06	21.60	
			5	0	20.48	20.16	21.56	
		3	0	0	20.57	20.80	22.53	
			2	0	20.48	20.79	22.45	
			3	0	20.34	21.92	22.56	
	6	0	1	19.37	23.78	21.51		
	16QAM	1	0	1	19.74	20.05	22.60	
			3	1	19.86	21.35	21.83	
			5	1	19.42	22.30	22.52	
		3	0	1	19.32	23.72	22.35	
			2	1	19.41	23.63	22.43	
			3	1	19.19	23.76	21.70	
		6	0	2	18.52	23.02	22.61	
Bandwidth		Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
						19965	20175	20385
3MHz	QPSK	1	0	0	20.72	21.97	21.18	
			7	0	20.11	21.81	21.47	
			14	0	20.03	22.38	21.75	
		8	0	1	19.39	23.77	22.45	
			4	1	19.39	23.78	21.39	
			7	1	19.17	21.04	22.55	
	15	0	1	19.29	23.87	22.41		
	16QAM	1	0	1	19.52	23.63	21.20	
			7	1	19.04	22.94	21.32	
			14	1	18.89	22.99	22.68	
		8	0	2	18.52	22.98	21.60	
			4	2	18.52	22.90	22.42	
			7	2	18.19	23.16	21.57	
		15	0	2	18.28	22.89	22.46	

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Conducted Power of LTE Band 4(dBm)								
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel	
					19975	20175	20375	
5MHz	QPSK	1	0	0	20.62	21.58	21.09	
			13	0	19.91	22.99	21.44	
			24	0	19.84	21.21	22.89	
		12	0	1	19.25	23.64	21.20	
			6	1	19.34	23.64	22.22	
			13	1	19.02	22.06	21.53	
		25	0	1	19.13	23.80	21.30	
		16QAM	1	0	1	19.30	23.60	21.13
				13	1	18.78	23.85	22.38
	24			1	18.46	22.46	22.84	
	12		0	2	18.34	22.81	21.27	
			6	2	18.43	22.81	21.37	
			13	2	18.03	23.23	21.61	
	25	0	2	18.15	22.99	21.37		
	Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					20000	20175	20350	
10MHz	QPSK	1	0	0	20.43	22.24	21.63	
			25	0	20.07	21.08	21.95	
			49	0	21.37	21.61	21.84	
		25	0	1	19.09	23.49	22.36	
			13	1	19.10	23.48	22.29	
			25	1	19.53	22.22	21.23	
		50	0	1	19.29	<b>23.89</b>	22.72	
		16QAM	1	0	1	19.46	22.96	21.68
				25	1	19.53	22.92	22.98
	49			1	20.23	21.77	21.21	
	25		0	2	18.28	22.70	22.41	
			13	2	18.28	22.67	21.41	
			25	2	18.60	23.35	22.37	
	50		0	2	18.36	23.02	21.02	

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Conducted Power of LTE Band 4(dBm)								
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel	
					20025	20175	20325	
15MHz	QPSK	1	0	0	20.61	23.34	22.03	
			38	0	20.56	21.87	21.36	
			74	0	23.06	21.65	21.68	
		36	0	1	20.18	23.78	21.35	
			18	1	20.18	23.77	22.31	
			39	1	20.18	23.85	22.31	
		75	0	1	20.07	23.85	22.31	
		16QAM	1	0	1	19.49	22.50	21.21
				38	1	20.30	23.75	21.14
	74			1	22.19	21.68	22.70	
	36		0	2	20.17	23.77	21.31	
			18	2	20.18	23.86	22.31	
			39	2	20.17	23.85	21.31	
	75	0	2	19.14	23.07	21.35		
	Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					20050	20175	20300	
20MHz	QPSK	1	0	0	22.86	22.94	22.89	
			50	0	21.88	22.00	22.74	
			99	0	22.17	21.14	21.77	
		50	0	1	19.47	22.98	21.98	
			25	1	19.38	22.98	21.98	
			50	1	22.11	21.52	20.66	
		100	0	1	20.84	23.75	21.98	
		16QAM	1	0	1	19.49	22.25	21.48
				50	1	21.14	22.26	22.47
	99			1	23.25	22.57	21.52	
	50		0	2	18.57	22.11	21.24	
			25	2	18.57	22.11	21.24	
			50	2	21.10	23.55	22.77	
	100		0	2	20.02	22.85	22.11	

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Conducted Power of LTE Band 5(dBm)								
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel	
					20407	20525	20643	
1.4MHz	QPSK	1	0	0	18.18	20.44	22.28	
			3	0	19.95	21.78	22.66	
			5	0	19.72	20.78	22.65	
		3	0	0	19.97	21.56	22.33	
			2	0	18.00	20.65	22.31	
			3	0	19.68	20.86	22.50	
	6	0	1	20.93	21.70	21.40		
	16QAM	1	0	1	19.50	20.43	21.59	
			3	1	20.22	21.02	21.95	
			5	1	20.04	21.17	21.77	
		3	0	1	20.95	21.52	21.14	
			2	1	20.12	21.52	21.24	
			3	1	20.80	20.87	21.38	
		6	0	2	20.02	21.83	20.60	
		Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel
20415							20525	20635
3MHz	QPSK	1	0	0	21.09	20.12	21.34	
			7	0	23.40	20.72	22.05	
			14	0	22.99	21.58	22.58	
		8	0	1	22.95	19.57	20.76	
			4	1	22.86	19.50	20.76	
			7	1	22.29	20.13	21.40	
	15	0	1	22.54	19.81	21.09		
	16QAM	1	0	1	23.16	19.04	20.30	
			7	1	22.28	20.04	21.06	
			14	1	22.07	20.72	21.48	
		8	0	2	22.05	18.51	19.72	
			4	2	21.86	18.68	19.83	
			7	2	21.42	19.24	20.51	
		15	0	2	21.62	18.89	20.08	

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Conducted Power of LTE Band 5(dBm)								
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel	
					20425	20525	20625	
5MHz	QPSK	1	0	0	23.91	20.07	20.50	
			13	0	22.98	20.97	21.72	
			24	0	21.71	21.70	22.66	
		12	0	1	22.47	19.33	20.06	
			6	1	22.47	19.34	20.02	
			13	1	21.58	20.38	21.13	
		25	0	1	22.00	19.89	20.53	
		16QAM	1	0	1	22.75	18.79	19.29
				13	1	21.81	19.74	20.35
	24			1	20.23	21.14	21.23	
	12		0	2	21.46	18.20	19.05	
			6	2	21.43	18.38	19.01	
			13	2	20.45	19.31	20.19	
	25	0	2	21.20	18.74	19.62		
	Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					20450	20525	20600	
10MHz	QPSK	1	0	0	23.75	23.95	23.88	
			25	0	21.52	21.07	20.28	
			49	0	19.79	23.29	22.40	
		25	0	1	21.84	19.22	18.38	
			13	1	21.84	19.24	18.39	
			25	1	19.54	21.08	20.45	
		50	0	1	20.96	20.22	19.41	
		16QAM	1	0	1	22.91	18.98	20.00
				25	1	21.06	20.08	19.25
	49			1	18.81	22.45	21.53	
	25		0	2	20.81	18.13	20.28	
			13	2	20.90	18.23	20.27	
			25	2	18.53	20.07	19.41	
	50		0	2	19.89	19.27	18.45	

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Conducted Power of LTE Band 12(dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					23017	23095	23173
1.4MHz	QPSK	1	0	0	21.28	18.90	20.91
			3	0	21.08	18.70	20.89
			5	0	21.05	18.51	20.02
		3	0	0	20.92	18.79	20.01
			2	0	21.01	18.77	21.91
			3	0	20.85	18.71	20.78
	6	0	1	20.12	19.66	21.92	
	16QAM	1	0	1	19.72	18.19	21.32
			3	1	20.23	18.17	20.92
			5	1	19.79	20.55	21.63
		3	0	1	19.78	20.68	20.02
			2	1	19.86	20.67	21.02
			3	1	19.74	20.43	21.07
	6	0	2	19.24	21.80	20.64	
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					23025	23095	23165
3MHz	QPSK	1	0	0	21.11	23.19	18.87
			7	0	21.82	22.80	18.39
			14	0	21.70	21.91	20.90
		8	0	1	21.23	22.13	20.63
			4	1	21.24	22.11	20.63
			7	1	23.89	21.40	21.19
	15	0	1	21.14	21.73	21.29	
	16QAM	1	0	1	21.21	22.21	20.94
			7	1	23.83	21.95	20.66
			14	1	23.66	21.09	20.00
		8	0	2	23.27	21.23	21.63
			4	2	23.23	21.23	21.55
			7	2	23.09	20.47	21.02
	15	0	2	22.96	20.75	21.23	

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Conducted Power of LTE Band 12(dBm)								
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel	
					23035	23095	23155	
5MHz	QPSK	1	0	0	21.14	23.83	19.97	
			13	0	21.71	22.74	18.53	
			24	0	22.44	21.25	20.90	
		12	0	1	21.08	22.27	18.30	
			6	1	22.11	22.27	18.33	
			13	1	23.54	21.08	20.20	
		25	0	1	23.80	21.63	20.79	
		16QAM	1	0	1	23.64	23.07	19.07
				13	1	23.19	21.45	20.63
	24			1	23.08	20.37	21.02	
	12		0	2	23.13	21.43	21.32	
			6	2	23.04	21.34	20.61	
			13	2	22.64	20.07	20.08	
	25	0	2	22.83	20.77	21.92		
	Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
23060						23095	23130	
10MHz	QPSK	1	0	0	24.15	<b>24.33</b>	24.19	
			25	0	23.95	22.99	20.26	
			49	0	22.07	19.86	20.74	
		25	0	1	23.62	22.59	21.03	
			13	1	23.62	22.59	20.97	
			25	1	22.34	20.31	18.00	
		50	0	1	22.92	21.45	19.79	
		16QAM	1	0	1	21.05	23.35	22.68
				25	1	23.10	22.45	19.80
	49			1	21.53	18.52	20.28	
	25		0	2	22.80	21.72	20.14	
			13	2	22.80	21.72	20.03	
			25	2	21.36	19.58	19.24	
	50		0	2	22.02	20.44	18.72	

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Conducted Power of LTE Band 13(dBm)								
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel	
					23205	23230	23255	
5MHz	QPSK	1	0	0	21.95	22.21	22.42	
			13	0	22.12	22.51	22.68	
			24	0	22.21	22.59	<b>22.79</b>	
		12	0	1	20.93	21.30	21.66	
			6	1	20.84	21.21	21.50	
			13	1	21.19	21.51	21.81	
		25	1	21.04	21.33	21.58		
		16QAM	1	0	1	20.58	20.76	21.20
				13	1	20.80	21.13	21.94
	24			1	21.51	21.36	22.04	
	12		0	2	19.82	20.19	20.53	
			6	2	19.81	20.19	20.45	
			13	2	20.09	20.41	20.74	
	25	2	20.12	20.41	20.63			
	Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel		
10MHz	QPSK	1	0	0	21.82			
			25	0	22.68			
			49	0	22.76			
		25	0	1	21.12			
			13	1	21.12			
			25	1	21.58			
		50	1	21.33				
		16QAM	1	0	1	20.63		
				25	1	21.81		
	49			1	21.94			
	25		0	2	20.08			
			13	2	20.12			
			25	2	20.56			
	50	2	20.18					
	Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel		
					23230			

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Conducted Power of LTE Band 14(dBm)								
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel	
					23305	23330	23355	
5MHz	QPSK	1	0	0	22.72	22.98	22.69	
			13	0	22.94	22.97	22.80	
			24	0	22.77	22.82	22.50	
		3	0	1	21.99	21.92	21.92	
			6	1	22.00	21.92	21.83	
			13	1	21.90	21.96	21.63	
	6	0	1	21.99	21.86	21.76		
	16QAM	1	0	1	21.57	22.26	21.86	
			13	1	21.73	21.97	21.86	
			24	1	21.75	22.02	21.61	
		3	0	2	20.99	20.96	20.68	
			6	2	21.08	20.95	20.67	
			13	2	20.88	20.92	20.59	
		6	0	2	20.98	20.82	20.86	
		Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	
10MHz		QPSK	1	0	0	22.90		
	25			0	<b>23.04</b>			
	49			0	22.26			
	8		0	1	22.03			
			13	1	22.02			
			25	1	21.91			
	15	0	1	21.92				
	16QAM	1	0	1	22.00			
			25	1	22.15			
			49	1	21.44			
		8	0	2	21.08			
			13	2	20.99			
			25	2	20.82			
		15	0	2	20.87			
		Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	
						23330		

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Conducted Power of LTE Band 66(dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					131979	132422	132665
1.4MHz	QPSK	1	0	0	20.68	22.45	22.49
			2	0	20.57	21.87	21.60
			5	0	20.46	21.91	21.53
		3	0	0	20.50	21.51	22.77
			1	0	20.46	22.59	21.75
			3	0	20.31	21.69	21.63
	6	0	1	19.45	21.63	21.78	
	16QAM	1	0	1	19.90	20.40	21.70
			2	1	19.84	21.64	22.87
			5	1	19.56	20.71	21.95
		3	0	1	19.38	21.49	21.75
			1	1	19.38	21.62	21.74
			3	1	19.23	20.71	22.61
	6	0	2	18.59	21.52	21.11	
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					131987	132422	132657
3MHz	QPSK	1	0	0	20.51	21.47	21.33
			8	0	20.27	21.71	21.42
			14	0	20.07	21.96	21.60
		8	0	1	19.42	21.58	22.80
			4	1	19.42	22.58	21.62
			7	1	19.19	22.91	21.79
	15	0	1	19.31	21.69	20.62	
	16QAM	1	0	1	19.53	22.39	22.65
			8	1	19.11	22.94	21.69
			14	1	19.05	21.07	21.95
		8	0	2	18.62	21.81	22.67
			4	2	18.62	22.61	22.89
			7	2	18.41	21.03	21.84
	15	0	2	18.50	22.79	22.81	

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Conducted Power of LTE Band 66(dBm)								
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel	
					131997	132422	132647	
5MHz	QPSK	1	0	0	20.54	21.52	21.27	
			12	0	20.13	22.07	21.49	
			24	0	19.95	<b>23.39</b>	22.75	
		12	0	1	19.38	21.51	21.60	
			6	1	19.39	20.51	21.57	
			13	1	19.07	21.02	21.71	
		25	1	19.26	21.81	22.50		
		16QAM	1	0	1	19.30	22.76	21.48
				12	1	18.97	21.92	21.63
	24			1	19.27	20.31	21.01	
	12		0	2	18.40	21.66	21.51	
			6	2	18.40	21.66	22.52	
			13	2	18.17	21.17	21.84	
	25	2	18.46	22.87	21.71			
	Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					132022	132422	132622	
10MHz	QPSK	1	0	0	20.45	21.08	21.16	
			24	0	20.30	20.98	20.61	
			49	0	21.30	20.02	20.57	
		25	0	1	19.24	21.37	21.41	
			12	1	19.25	20.45	22.43	
			25	1	19.76	21.42	21.42	
		50	1	19.37	20.92	22.44		
		16QAM	1	0	1	19.57	20.39	22.71
				24	1	19.71	20.66	21.87
	49			1	20.40	20.94	22.13	
	25		0	2	18.32	21.55	21.48	
			12	2	18.40	21.67	22.57	
			25	2	18.75	21.22	21.72	
	50		2	18.64	20.96	21.58		

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Conducted Power of LTE Band 66(dBm)								
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel	
					132047	132422	132597	
15MHz	QPSK	1	0	0	20.37	21.71	21.52	
			38	0	20.59	21.69	21.41	
			74	0	22.96	22.23	21.75	
		38	0	1	20.22	21.00	22.57	
			18	1	20.22	21.00	22.58	
			37	1	20.21	21.00	21.58	
		75	0	1	20.21	22.00	21.58	
		16QAM	1	0	1	19.54	21.04	21.09
				38	1	20.37	21.70	21.25
	74			1	22.01	22.39	21.83	
	38		0	2	20.22	21.00	20.58	
			18	2	20.21	21.00	21.58	
			37	2	20.21	21.00	20.58	
	75	0	2	19.20	22.13	20.62		
	Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					132072	132422	132572	
20MHz	QPSK	1	0	0	21.72	21.71	21.79	
			49	0	21.75	20.06	22.62	
			99	0	21.32	21.87	20.79	
		50	0	1	19.58	20.20	21.59	
			25	1	19.48	20.20	21.58	
			50	1	21.98	21.89	22.44	
		100	0	1	20.89	21.09	21.38	
		16QAM	1	0	1	19.54	21.83	22.28
				49	1	21.37	22.41	22.15
	99			1	21.39	21.98	21.19	
	50		0	2	18.57	21.36	21.70	
			25	2	18.64	22.46	20.70	
			50	2	21.12	21.88	20.49	
	100	0	2	19.96	21.28	21.56		

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Conducted Power of LTE Band 71(dBm)								
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel	
					133147	133297	133447	
5MHz	QPSK	1	0	0	19.58	19.50	19.24	
			12	0	19.65	19.69	19.14	
			24	0	19.68	19.50	18.93	
		12	0	1	18.53	18.45	18.11	
			6	1	18.52	18.54	18.11	
			13	1	18.66	18.50	18.14	
		25	0	1	18.63	18.47	18.11	
		16QAM	1	0	1	18.38	18.18	18.25
				12	1	18.35	18.33	18.32
	24			1	18.33	18.53	17.96	
	12		0	2	17.50	17.68	17.12	
			6	2	17.60	17.59	17.12	
			13	2	17.55	17.56	17.08	
	25	0	2	17.82	17.53	17.24		
	Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
133172						133297	133422	
10MHz	QPSK	1	0	0	19.52	19.35	19.54	
			24	0	19.74	19.82	19.66	
			49	0	19.31	19.41	18.95	
		25	0	1	18.76	18.51	18.50	
			12	1	18.59	18.51	18.55	
			25	1	18.45	18.64	18.22	
		50	0	1	18.54	18.53	18.31	
		16QAM	1	0	1	18.38	18.83	18.94
				24	1	18.84	18.53	18.74
	49			1	18.34	18.90	18.24	
	25		0	2	17.65	17.60	17.59	
			12	2	17.64	17.60	17.48	
			25	2	17.53	17.75	17.24	
	50		0	2	17.51	17.62	17.39	

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Conducted Power of LTE Band 71(dBm)								
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel	
					133197	133297	133397	
15MHz	QPSK	1	0	0	19.60	19.27	19.52	
			38	0	19.43	19.39	19.33	
			74	0	19.46	19.20	19.18	
		38	0	1	18.35	18.38	18.84	
			18	1	18.51	18.46	18.62	
			37	1	18.31	17.87	18.96	
		75	1	18.47	18.48	18.43		
		16QAM	1	0	1	18.56	18.25	19.01
				38	1	18.49	18.50	18.81
	74			1	18.61	18.63	18.27	
	38		0	2	18.39	18.36	18.84	
			18	2	18.36	18.50	18.71	
			37	2	18.50	17.85	18.90	
	75	2	17.42	17.57	17.52			
	Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
133222						133322	133372	
20MHz	QPSK	1	0	0	19.53	19.40	19.31	
			49	0	19.59	<b>19.90</b>	19.51	
			99	0	19.54	19.30	19.09	
		50	0	1	18.45	18.66	18.53	
			25	1	18.52	18.57	18.43	
			50	1	18.59	18.55	18.32	
		100	1	18.47	18.54	18.36		
		16QAM	1	0	1	18.61	18.71	18.24
				49	1	18.81	19.09	18.35
	99			1	18.75	18.85	17.75	
	50		0	2	17.59	17.67	17.54	
			25	2	17.58	17.59	17.55	
			50	2	17.65	17.71	17.55	
	100		2	17.64	17.61	17.44		

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The following tests were conducted according to the test requirements outlined in section 6.2 of the 3GPP TS36.101 specification.

UE Power Class: 3 (23 +/- 2dBm). The allowed Maximum Power Reduction (MPR) for the maximum output power due to higher order modulation and transmit bandwidth configuration (resource blocks) is specified in Table 6.2.3.3-1 of the 3GPP TS36.101.

**Table 6.2.3.3-1 Maximum Power Reduction (MPR) for Power class3**

Modulation	Maximum Power Reduction (MPR) for Power[RB]						MPR(dB)
	1.4MHz	3MHz	5MHz	10MHz	15MHz	20MHz	
QPSK	>5	>4	>8	>12	>16	>18	≤1
16QAM	≤5	≤4	≤8	≤12	≤16	≤18	≤1
16QAM	>5	>4	>8	>12	>16	>18	≤2

The allowed A-MPR values specified below in Table 6.2.4.3-1 of 3GPP TS36.101 are in addition to the allowed MPR requirements. All the measurements below were performed with A-MPR disabled, by using Network Signaling Value of "NS\_01".3

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**Table 6.2.4.3-1: Additional Maximum Power Reduction (A-MPR) / Spectrum Emission requirements**

Network Signaling value	Requirements (sub-clause)	E-UTRA Band	Channel bandwidth (MHz)	Resources Blocks ( $N_{RB}$ )	A-MPR (dB)
NS_01	6.6.2.1.1	Table 5.2-1	1.4,3,5,10,15,20	Table 5.4.2-1	N/A
NS_03	6.6.2.2.3.1	2,4,10, 23, 25,35,36	3	>5	$\leq 1$
			5	>6	$\leq 1$
			10	>6	$\leq 1$
			15	>8	$\leq 1$
			20	>10	$\leq 1$
NS_04	6.6.2.2.3.2	41	5	>6	$\leq 1$
			10, 15, 20	Table 6.2.4.3-4	
NS_05	6.6.3.3.3.1	1	10,15,20	$\geq 50$	$\leq 1$
NS_06	6.6.2.2.3.3	12, 13, 14, 17	1.4, 3, 5, 10	Table 5.4.2-1	N/A
NS_07	6.6.2.2.3.3 6.6.3.3.3.2	13	10	Table 6.2.4.3-2	Table 6.2.4.3-2
NS_08	6.6.3.3.3.3	19	10, 15	> 44	$\leq 3$
NS_09	6.6.3.3.3.4	21	10, 15	> 40	$\leq 1$
				> 55	$\leq 2$
NS_10		20	15, 20	Table 6.2.4.3-3	Table 6.2.4.3-3
NS_11	6.6.2.2.1 6.6.3.3.13	231	1.4, 3, 5, 10,15,20	Table 6.2.4.3-5	Table 6.2.4.3-5
NS_12	6.6.3.3.5	26	1.4, 3, 5	Table 6.2.4.3-6	Table 6.2.4.3-6
NS_13	6.6.3.3.6	26	5	Table 6.2.4.3-7	Table 6.2.4.3-7
NS_14	6.6.3.3.7	26	10, 15	Table 6.2.4.3-8	Table 6.2.4.3-8
NS_15	6.6.3.3.8	26	1.4, 3, 5, 10, 15	Table 6.2.4.3-9 Table 6.2.4.3-10	Table 6.2.4.3-9, Table 6.2.4.3-10
NS_16	6.6.3.3.9	27	3, 5, 10	Table 6.2.4.3-11, Table 6.2.4.3-12, Table 6.2.4.3-13	
NS_17	6.6.3.3.10 6.6.3.3.11	28 28	5, 10	Table 5.4.2-1	N/A
			5	$\geq 2$	$\leq 1$
NS_18			10, 15, 20	$\geq 1$	$\leq 4$
NS_19			10, 15, 20	Table 6.2.4.3-15	Table 6.2.4.3-15
NS_20			5, 10, 15, 20	Table 6.2.4.3-14	Table 6.2.4.3-14
...					
NS_20	-	-	-	-	-

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**WIFI**

Mode	Data Rate (Mbps)	Channel	Frequency(MHz)	Avg. Burst Power(dBm)
802.11b	1	01	2412	14.48
		06	2437	<b>14.51</b>
		11	2462	14.09
802.11g	6	01	2412	13.94
		06	2437	13.78
		11	2462	13.59
802.11n(20)	6.5	01	2412	13.45
		06	2437	13.26
		11	2462	13.37

**Bluetooth\_V5.0(BLE)**

Modulation	Channel	Frequency(MHz)	Peak Power (dBm)
GFSK	0	2402	<b>2.882</b>
	19	2440	2.848
	39	2480	2.325

Note:

Calculation Value = [(max. power of channel, mW)/(min. test separation distance, mm)] · [√f(GHz)].  
= 1.942/5 · √2.402 = 0.602 ≤ 3.0

**According to KDB447498 D01 V06, threshold at which no SAR required is ≤3.0 for 1-g SAR, separation distance is 5mm.**

Test Mode	Channel Frequency (MHz)	Field Strength (dBuV/m@3m)	Max Output power (mW)	Threshold Value(mW)
NFC-ASK	13.56MHz	62.25	0.00012647	442.9735094

Note:

- Max Output Power (dBm) = Field Strength of Fundamental (dBuV/m@3m)-95.23-6
- Max Output Power (mW) =  $10^{(\text{Max power (dBm)}/10)}$
- According to KDB447498 D01 V06, 4.3.1 c)  
For frequencies below 100 MHz, the following may be considered for SAR test exclusion (also illustrated in Appendix C):
  - For test separation distances > 50 mm and < 200 mm, the power threshold at the corresponding test separation distance at 100 MHz in step b) is multiplied by  $[1 + \log(100/f(\text{MHz}))]$
  - For test separation distances ≤ 50 mm, the power threshold determined by the equation in c) 1) for 50 mm and 100 MHz is multiplied by  $\frac{1}{2}$

Threshold Value =  $\{(3 \times 50 \text{mm} / \sqrt{0.1 \text{GHz}}) \times [1 + \log(100/13.56 \text{MHz})]\} / 2 = 442.9735094 \text{mW}$

**Since Max Output power (mW) of NFC is below SAR test exclusion power thresholds, the SAR evaluation of NFC is not required.**

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5GHz WIFI

Mode	channel	Frequency	Power(dBm)							
			Data Rate(bps)							
			6M	9M	12M	18M	24M	36M	48M	54M
802.11a	36	5180	12.45	12.27	12.21	12.01	11.96	11.96	11.77	11.65
	40	5200	<b>12.48</b>	12.32	12.17	11.97	11.91	11.80	11.78	11.64
	44	5220	12.21	12.10	12.00	11.94	11.87	11.73	11.57	11.57
	48	5240	12.30	12.24	12.13	12.07	11.90	11.72	11.57	11.41
	52	5260	<b>11.72</b>	11.68	11.52	11.35	11.22	11.12	10.96	10.83
	56	5280	11.24	11.09	10.89	10.87	10.70	10.61	10.59	10.53
	60	5300	11.48	11.42	11.33	11.16	11.13	11.00	10.91	10.76
	64	5320	11.09	11.08	11.03	10.87	10.81	10.80	10.72	10.55
	100	5500	10.67	10.62	10.55	10.47	10.42	10.22	10.22	10.15
	104	5520	10.41	10.34	10.27	10.13	10.10	10.00	9.93	9.92
	108	5540	10.31	10.21	10.12	10.02	9.82	9.63	9.59	9.43
	112	5560	10.22	10.10	9.92	9.76	9.61	9.42	9.35	9.19
	116	5580	10.36	10.32	10.12	10.11	10.01	9.99	9.81	9.76
	120	5600	10.21	10.13	9.99	9.90	9.74	9.58	9.45	9.36
	124	5620	10.05	9.90	9.87	9.83	9.82	9.76	9.66	9.52
	128	5640	10.13	9.94	9.79	9.73	9.61	9.47	9.34	9.27
	132	5660	10.36	10.28	10.23	10.23	10.15	9.95	9.89	9.87
	136	5680	10.42	10.22	10.20	10.08	9.94	9.84	9.74	9.56
	140	5700	<b>10.74</b>	10.62	10.49	10.39	10.24	10.18	10.09	9.95
	149	5745	<b>10.95</b>	10.85	10.75	10.56	10.41	10.26	10.15	10.07
157	5785	10.76	10.75	10.61	10.43	10.28	10.14	10.03	9.93	
165	5825	10.28	10.19	10.07	9.93	9.92	9.87	9.69	9.57	

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Mode	channel	Frequency	Power(dBm)							
			Data Rate(bps)							
			MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
802.11n (20)	36	5180	11.11	10.97	10.95	10.87	10.77	10.66	10.50	10.32
	40	5200	11.05	10.89	10.77	10.76	10.56	10.38	10.35	10.25
	44	5220	11.01	10.94	10.90	10.71	10.68	10.49	10.38	10.37
	48	5240	10.88	10.79	10.71	10.60	10.56	10.51	10.42	10.32
	52	5260	10.47	10.46	10.28	10.10	10.01	9.83	9.77	9.71
	56	5280	10.36	10.33	10.25	10.12	10.02	9.82	9.67	9.57
	60	5300	10.14	9.99	9.88	9.74	9.67	9.59	9.49	9.35
	64	5320	9.90	9.76	9.62	9.45	9.37	9.19	9.05	8.86
	100	5500	9.15	9.03	8.94	8.88	8.75	8.67	8.51	8.35
	104	5520	9.05	9.01	8.91	8.81	8.77	8.64	8.45	8.27
	108	5540	8.86	8.86	8.69	8.58	8.57	8.48	8.29	8.17
	112	5560	8.33	8.28	8.24	8.16	8.06	7.93	7.84	7.68
	116	5580	8.92	8.76	8.61	8.53	8.42	8.24	8.19	8.17
	120	5600	8.62	8.54	8.44	8.41	8.31	8.29	8.13	7.93
	124	5620	8.46	8.33	8.21	8.10	8.03	7.91	7.80	7.68
	128	5640	9.27	9.24	9.12	8.93	8.88	8.74	8.64	8.63
	132	5660	9.33	9.20	9.20	9.19	9.05	9.01	8.97	8.90
136	5680	9.13	9.05	8.88	8.71	8.56	8.46	8.28	8.17	
140	5700	9.41	9.24	9.18	9.07	9.00	8.88	8.73	8.58	
149	5745	9.50	9.45	9.28	9.17	9.10	9.04	8.96	8.77	
157	5785	9.26	9.18	9.16	9.10	9.09	8.92	8.81	8.71	
165	5825	8.81	8.80	8.63	8.50	8.37	8.28	8.11	8.04	
			MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
802.11n (40)	38	5190	11.00	10.98	10.92	10.86	10.81	10.76	10.64	10.62
	46	5230	10.86	10.77	10.73	10.62	10.59	10.39	10.30	10.14
	54	5270	10.18	10.12	9.98	9.91	9.72	9.64	9.51	9.33
	62	5310	9.79	9.73	9.68	9.57	9.51	9.41	9.35	9.32
	102	5510	9.09	9.03	8.99	8.98	8.88	8.74	8.58	8.57
	110	5550	9.01	8.91	8.77	8.71	8.61	8.52	8.33	8.33
	118	5590	8.62	8.55	8.37	8.27	8.19	8.10	7.99	7.82
	126	5630	8.41	8.35	8.20	8.12	8.08	7.98	7.83	7.74
	134	5670	8.65	8.56	8.38	8.32	8.13	8.07	8.00	7.90
	151	5755	9.41	9.37	9.18	9.00	8.97	8.97	8.79	8.72
	159	5795	9.22	9.18	9.07	8.87	8.77	8.74	8.65	8.50

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Mode	channel	Frequency	Power(dBm)							
			Data Rate(bps)							
			MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
802.11ac (20)	36	5180	11.21	11.04	10.98	10.79	10.62	10.54	10.51	10.36
	40	5200	11.23	11.18	11.06	10.88	10.83	10.75	10.62	10.45
	44	5220	11.06	10.92	10.73	10.60	10.55	10.54	10.42	10.27
	48	5240	10.97	10.78	10.60	10.53	10.39	10.22	10.09	10.04
	52	5260	10.70	10.58	10.46	10.31	10.25	10.20	10.15	9.96
	56	5280	10.63	10.54	10.37	10.36	10.32	10.31	10.25	10.12
	60	5300	10.49	10.45	10.26	10.24	10.07	10.06	9.87	9.78
	64	5320	10.09	9.92	9.90	9.72	9.55	9.41	9.40	9.24
	100	5500	9.22	9.14	8.96	8.80	8.76	8.61	8.56	8.48
	104	5520	9.13	9.06	8.99	8.86	8.71	8.58	8.45	8.39
	108	5540	9.01	8.98	8.96	8.81	8.70	8.57	8.44	8.29
	112	5560	8.91	8.79	8.63	8.50	8.31	8.16	8.16	8.15
	116	5580	8.89	8.88	8.76	8.60	8.59	8.50	8.41	8.34
	120	5600	8.96	8.77	8.76	8.65	8.51	8.44	8.36	8.21
	124	5620	8.81	8.79	8.65	8.48	8.43	8.32	8.30	8.15
	128	5640	8.96	8.86	8.66	8.49	8.34	8.33	8.23	8.20
	132	5660	9.02	8.96	8.90	8.73	8.54	8.39	8.33	8.26
	136	5680	9.13	8.98	8.98	8.86	8.80	8.75	8.64	8.61
140	5700	9.41	9.22	9.18	9.01	8.85	8.84	8.77	8.64	
149	5745	9.71	9.63	9.56	9.53	9.40	9.25	9.14	9.08	
157	5785	9.34	9.23	9.05	9.02	8.85	8.85	8.78	8.63	
165	5825	8.93	8.81	8.64	8.56	8.41	8.36	8.26	8.13	
			MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
802.11ac (40)	38	5190	11.14	10.99	10.95	10.89	10.69	10.54	10.37	10.29
	46	5230	10.96	10.92	10.91	10.80	10.71	10.56	10.46	10.28
	54	5270	10.40	10.38	10.26	10.22	10.14	10.00	9.90	9.83
	62	5310	10.04	9.97	9.83	9.72	9.55	9.37	9.26	9.11
	102	5510	9.17	9.04	9.04	8.90	8.86	8.71	8.65	8.59
	110	5550	9.06	8.95	8.91	8.73	8.54	8.40	8.28	8.14
	118	5590	8.79	8.76	8.63	8.52	8.41	8.30	8.19	8.08
	126	5630	8.61	8.45	8.42	8.36	8.21	8.17	8.10	7.95
	134	5670	8.69	8.56	8.48	8.39	8.31	8.29	8.27	8.23
	151	5755	9.63	9.58	9.41	9.35	9.32	9.24	9.08	8.89
159	5795	9.22	9.18	8.99	8.99	8.81	8.79	8.73	8.70	
			MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
802.11ac (80)	42	5210	10.57	10.41	10.27	10.19	10.06	9.90	9.74	9.68
	58	5290	9.96	9.95	9.92	9.74	9.56	9.54	9.46	9.45
	106	5530	8.26	8.18	7.99	7.98	7.91	7.85	7.74	7.55
	122	5610	8.10	7.90	7.71	7.56	7.51	7.39	7.32	7.28
	138	5690	8.05	8.03	7.87	7.76	7.62	7.46	7.34	7.28
155	5775	8.89	8.72	8.67	8.48	8.32	8.14	8.05	7.91	

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## 13. TEST RESULTS

### 13.1. SAR Test Results Summary

#### 13.1.1. Test position and configuration

Body-worn SAR was performed with the device 0mm from the phantom.

#### 13.1.2. Operation Mode

1. Per KDB 447498 D01 v06 ,for each exposure position, if the highest 1-g SAR is  $\leq 0.8$  W/kg, testing for low and high channel is optional.
2. Per KDB 865664 D01 v01r04,for each frequency band, if the measured SAR is  $\geq 0.8$ W/kg, testing for repeated SAR measurement is required , that the highest measured SAR is only to be tested. When the SAR results are near the limit, the following procedures are required for each device to verify these types of SAR measurement related variation concerns by repeating the highest measured SAR configuration in each frequency band.
  - (1) When the original highest measured SAR is  $\geq 0.8$ W/kg, repeat that measurement once.
  - (2) 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.
  - (3) Perform a third repeated measurement only if the original, first and second repeated measurement is  $\geq 1.5$  W/kg and ratio of largest to smallest SAR for the original, first and second measurement is  $\geq 1.20$ .
3. Per KDB 248227 D01v02r02,for 2.4GHz 802.11g/n SAR testing is not required when the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is  $\leq 1.2$ W/kg.
4. Per KDB 248227 D01 v02r02 Chapter 5.3.4, SAR measurement requirements for the remaining 802.11 transmission mode configurations that have not been tested in the initial test configuration are determined separately for each standalone and aggregated frequency band, in each exposure condition, according to the maximum output power specified for production units. The initial test position procedure is applied to next to the ear, UMPC mini-tablet and hotspot mode configurations. When the same maximum output power is specified for multiple transmission modes, the procedures in 5.3.2 are applied to determine the test configuration. Additional power measurements may be required to determine if SAR measurements are required for subsequent highest output power channels in a subsequent test configuration. The subsequent test configuration and SAR measurement procedures are described in the following.
  - (1) When SAR test exclusion provisions of KDB Publication 447498 D01 are applicable and SAR measurement is not required for the initial test configuration, SAR is also not required for the next highest maximum output power transmission mode subsequent test configuration(s) in that frequency band or aggregated band and exposure configuration.
  - (2) When the highest reported SAR for the initial test configuration (when applicable, include subsequent highest output channels), according to the initial test position or fixed exposure position requirements, is adjusted by the ratio of the subsequent test configuration to initial test configuration specified maximum output power and the adjusted SAR is  $\leq 1.2$  W/kg, SAR is not required for that subsequent test configuration.
5. Per KDB 941225 D06 V02r01, When the same wireless mode transmission configurations for voice and data are required for SAR measurements, the more conservative configuration with a smaller separation distance should be tested for the overlapping SAR configurations.
6. Maximum Scaling SAR in order to calculate the Maximum SAR values to test under the standard Peak Power, Calculation method is as follows:

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Maximum Scaling SAR = tested SAR (Max.) × [maximum turn-up power (mw)/ maximum measurement output power(mw) ]

7. Proximity sensor, just for avoiding the wrong operation in the phone screen when call, and has no influence on output power or SAR result
8. Per KDB 941225 D05v02r05, start with the largest channel bandwidth and measure SAR for QPSK with 1RB allocation using the RB offset and required test channel combination with highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel.
9. Per KDB 941125 D05v02r05, 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure.
10. Per KDB 941125 D05v02r05. 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 1RB allocation and the highest reported SAR is >1.45 W/kg, the remaining required test channels must also be tested.
11. Per KDB 941125 D05v02r05. 16QAM output power for each RB allocation configuration is not 1/2 dB higher than the same configuration in QPSK and the reported SAR for the QPSK configuration is ≤1.45W/kg, Per KDB 941225 D05v02r05, 16QAM SAR testing is not required.
12. Per KDB 941125 D05v02r05. Smaller bandwidth output power for each RB allocation configuration is >not 1/2 dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is ≤1.45W/kg. Per KDB 941125 D05v02r05, smaller bandwidth SAR testing is not required.

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### 13.1.3. Test Result

SAR MEASUREMENT									
Depth of Liquid (cm):>15					Relative Humidity (%): 51.9				
Product: Body Worn Camera									
Test Mode: WCDMA Band II with QPSK modulation									
Position	Mode	Ch.	Fr. (MHz)	Power Drift (<math>\pm 5\%</math>)	SAR (1g) (W/kg)	Max. Tune-up Power (dBm)	Meas. output Power (dBm)	Scaled SAR (W/kg)	Limit (W/kg)
Body back	RMC 12.2kbps	9400	1880	-0.21	0.038	22.00	21.68	0.041	1.6

Note:

- When the 1-g Reported SAR is  $\leq 0.8$  W/kg, testing for low and high channel is optional. Refer to KDB 447498.
- The test separation is 0mm

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SAR MEASUREMENT									
Depth of Liquid (cm):>15					Relative Humidity (%): 59.6				
Product: Body Worn Camera									
Test Mode: WCDMA Band IV with QPSK modulation									
Position	Mode	Ch.	Fr. (MHz)	Power Drift (<±5%)	SAR (1g) (W/kg)	Max. Tune-up Power (dBm)	Meas. output Power (dBm)	Scaled SAR (W/kg)	Limit (W/kg)
Body back	RMC 12.2kbps	8662	1732.4	-0.22	0.044	22.40	22.34	0.045	1.6

Note:

- When the 1-g Reported SAR is  $\leq 0.8$  W/kg, testing for low and high channel is optional. Refer to KDB 447498.
- The test separation is 0mm

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SAR MEASUREMENT									
Depth of Liquid (cm):>15					Relative Humidity (%): 53.3				
Product: Body Worn Camera									
Test Mode: WCDMA Band V with QPSK modulation									
Position	Mode	Ch.	Fr. (MHz)	Power Drift (<math>\pm 5\%</math>)	SAR (1g) (W/kg)	Max. Tune-up Power (dBm)	Meas. output Power (dBm)	Scaled SAR (W/kg)	Limit (W/kg)
Body back	RMC 12.2kbps	4183	836.4	-0.17	0.215	23.10	23.06	0.217	1.6

Note:

- When the 1-g Reported SAR is  $\leq 0.8$  W/kg, testing for low and high channel is optional. Refer to KDB 447498.
- The test separation is 0mm

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SAR MEASUREMENT												
Depth of Liquid (cm):>15						Relative Humidity (%): 51.9						
Product: Body Worn Camera												
Test Mode: LTE Band 2												
BM MHz	MOD	Position	Test Mode		Ch.	Freq. (MHz)	Power Drift (<±5%)	SAR (1g) (W/kg)	Max. Tune up Power (dBm)	Meas. output Power (dBm)	Scaled SAR (W/kg)	Limit (W/kg)
			UL RB Allocation	UL RB START								
20	QPSK	Body back	1	0	18900	1880	-0.13	0.055	21.30	21.27	0.055	1.6

Note:

- When the 1-g Reported SAR is  $\leq 0.8$  W/kg, testing for low and high channel is optional. Refer to KDB 447498.
- The test separation is 0mm

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SAR MEASUREMENT												
Depth of Liquid (cm):>15						Relative Humidity (%): 59.6						
Product: Body Worn Camera												
Test Mode: LTE Band 4												
BM MHz	MOD	Position	Test Mode		Ch.	Freq. (MHz)	Power Drift (<±5%)	SAR (1g) (W/kg)	Max. Tuneup Power (dBm)	Meas. output Power (dBm)	Scaled SAR (W/kg)	Limit (W/kg)
			UL RB Allocation	UL RB START								
20	QPSK	Body back	1	0	20175	1732.5	-0.07	0.047	23.00	22.94	0.048	1.6

Note:

- When the 1-g Reported SAR is  $\leq 0.8$  W/kg, testing for low and high channel is optional. Refer to KDB 447498.
- The test separation is 0mm

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SAR MEASUREMENT												
Depth of Liquid (cm):>15						Relative Humidity (%): 53.3						
Product: Body Worn Camera												
Test Mode: LTE Band 5												
BM MHz	MOD	Position	Test Mode		Ch.	Freq. (MHz)	Power Drift (<±5%)	SAR (1g) (W/kg)	Max. Tuneup Power (dBm)	Meas. output Power (dBm)	Scaled SAR (W/kg)	Limit (W/kg)
			UL RB Allocation	UL RB START								
10	QPSK	Body back	1	0	20525	836.5	-0.42	0.231	24.00	23.95	0.234	1.6

Note:

- When the 1-g Reported SAR is  $\leq 0.8$  W/kg, testing for low and high channel is optional. Refer to KDB 447498.
- The test separation is 0mm

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

SAR MEASUREMENT												
Depth of Liquid (cm):>15						Relative Humidity (%): 51.7						
Product: Body Worn Camera												
Test Mode: LTE Band 12												
BM MHz	MOD	Position	Test Mode		Ch.	Freq. (MHz)	Power Drift (<±5%)	SAR (1g) (W/kg)	Max. Tuneup Power (dBm)	Meas. output Power (dBm)	Scaled SAR (W/kg)	Limit (W/kg)
			UL RB Allocation	UL RB START								
10	QPSK	Body back	1	0	23095	707.5	-0.28	0.125	24.40	24.33	0.127	1.6

Note:

- When the 1-g Reported SAR is  $\leq 0.8$  W/kg, testing for low and high channel is optional. Refer to KDB 447498.
- The test separation is 0mm

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SAR MEASUREMENT												
Depth of Liquid (cm):>15						Relative Humidity (%): 51.7						
Product: Body Worn Camera												
Test Mode: LTE Band 13												
BM MHz	MOD	Position	Test Mode		Ch.	Freq. (MHz)	Power Drift (<math>\leq \pm 5\%</math>)	SAR (1g) (W/kg)	Max. Tuneup Power (dBm)	Meas. output Power (dBm)	Scaled SAR (W/kg)	Limit (W/kg)
			UL RB Allocation	UL RB START								
10	QPSK	Body back	1	0	23230	782	-0.39	0.293	21.90	21.82	0.298	1.6

Note:

- When the 1-g Reported SAR is  $\leq 0.8$  W/kg, testing for low and high channel is optional. Refer to KDB 447498.
- The test separation is 0mm

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SAR MEASUREMENT												
Depth of Liquid (cm):>15						Relative Humidity (%): 51.7						
Product: Body Worn Camera												
Test Mode: LTE Band 14												
BM MHz	MOD	Position	Test Mode		Ch.	Freq. (MHz)	Power Drift (<±5%)	SAR (1g) (W/kg)	Max. Tuneup Power (dBm)	Meas. output Power (dBm)	Scaled SAR (W/kg)	Limit (W/kg)
			UL RB Allocation	UL RB START								
10	QPSK	Body back	1	0	23330	793	-0.02	0.361	23.00	22.90	0.369	1.6

Note:

- When the 1-g Reported SAR is ≤ 0.8 W/kg, testing for low and high channel is optional. Refer to KDB 447498.
- The test separation is 0mm

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SAR MEASUREMENT												
Depth of Liquid (cm):>15						Relative Humidity (%): 59.6						
Product: LTE smartphone												
Test Mode: LTE Band 66												
BW MHz	MOD	Position	Test Mode		Ch.	Freq. (MHz)	Power Drift (<math>\pm 5\%</math>)	SAR (1g) (W/kg)	Max. Tuneup Power (dBm)	Meas. output Power (dBm)	Scaled SAR (W/Kg)	Limit (W/kg)
			UL RB Allocation	UL RB START								
20	QPSK	Body back	1	0	132422	1755	-0.12	0.042	21.80	21.71	0.043	1.6

Note:

- When the 1-g Reported SAR is  $\leq 0.8$  W/kg, testing for low and high channel is optional. Refer to KDB 447498.
- The test separation is 0mm

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Attestation of Global Compliance(Shenzhen)Co., Ltd  
 Attestation of Global Compliance(Shenzhen)Std & Tech Co., Ltd  
 Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: http://www.agccert.com/

SAR MEASUREMENT												
Depth of Liquid (cm):>15						Relative Humidity (%): 51.7						
Product: LTE smartphone												
Test Mode: LTE Band 71												
BW MHz	MOD	Position	Test Mode		Ch.	Freq. (MHz)	Power Drift (<math>\leq \pm 5\%</math>)	SAR (1g) (W/kg)	Max. Tuneup Power (dBm)	Meas. output Power (dBm)	Scaled SAR (W/Kg)	Limit (W/kg)
			UL RB Allocation	UL RB START								
20	QPSK	Body back	1	0	133322	683	-0.06	0.081	19.60	19.40	0.085	1.6

Note:

- When the 1-g Reported SAR is  $\leq 0.8$  W/kg, testing for low and high channel is optional. Refer to KDB 447498.
- The test separation is 0mm

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SAR MEASUREMENT									
Depth of Liquid (cm):>15					Relative Humidity (%): 54.9				
Product: Body Worn Camera									
Test Mode:802.11b									
Position	Mode	Ch.	Fr. (MHz)	Power Drift (<±5%)	SAR (1g) (W/kg)	Max. Tune-up Power (dBm)	Meas. output Power (dBm)	Scaled SAR (W/kg)	Limit (W/kg)
Body back	DTS	6	2437	-0.32	0.085	14.60	14.51	0.087	1.6

Note:

- According to KDB248227, SAR is not required for 802.11n HT20/HT40 channels when the maximum average output power is less than 1/4 dB higher than that measured on the corresponding 802.11a/b channels.
- All of above "DTS" means data transmitters.
- The test separation is 0mm

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SAR MEASUREMENT								
Depth of Liquid (cm):>15					Relative Humidity (%): 49.8			
Product: Body Worn Camera								
Test Mode: 5.2GHz WIFI-802.11a								
Position	Ch.	Fr. (MHz)	Power Drift (<math>\leq \pm 5\%</math>)	SAR (1g) (W/kg)	Max. Tune-up Power (dBm)	Meas. output Power (dBm)	Scaled SAR (W/kg)	Limit (W/kg)
Body back	40	5200	-0.49	0.092	12.50	12.48	0.092	1.6

Note:

- When the 1-g Reported SAR is  $\leq 0.8$  W/kg, testing for low and high channel is optional. Refer to KDB 447498.
- The test separation is 0mm

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SAR MEASUREMENT								
Depth of Liquid (cm):>15					Relative Humidity (%): 54.3			
Product: Body Worn Camera								
Test Mode: 5.3GHz WIFI-802.11a								
Position	Ch.	Fr. (MHz)	Power Drift (<±5%)	SAR (1g) (W/kg)	Max. Tune-up Power (dBm)	Meas. output Power (dBm)	Scaled SAR (W/kg)	Limit (W/kg)
Body back	60	5300	-0.13	0.092	11.80	11.48	0.099	1.6

Note:

- When the 1-g Reported SAR is  $\leq 0.8$  W/kg, testing for low and high channel is optional. Refer to KDB 447498.
- The test separation is 0mm

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SAR MEASUREMENT								
Depth of Liquid (cm):>15					Relative Humidity (%): 48.9			
Product: Body Worn Camera								
Test Mode: 5.6GHzWIFI-802.11a								
Position	Ch.	Fr. (MHz)	Power Drift (<math>\pm 5\%</math>)	SAR (1g) (W/kg)	Max. Tune-up Power (dBm)	Meas. output Power (dBm)	Scaled SAR (W/kg)	Limit (W/kg)
Body back	120	5600	-0.20	0.101	10.80	10.21	0.116	1.6

Note:

- When the 1-g Reported SAR is  $\leq 0.8$  W/kg, testing for low and high channel is optional. Refer to KDB 447498.
- The test separation is 0mm

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SAR MEASUREMENT								
Depth of Liquid (cm):>15					Relative Humidity (%): 46.6			
Product: Body Worn Camera								
Test Mode: 5.8GHz WIFI-802.11a								
Position	Ch.	Fr. (MHz)	Power Drift (<±5%)	SAR (1g) (W/kg)	Max. Tune-up Power (dBm)	Meas. output Power (dBm)	Scaled SAR (W/kg)	Limit (W/kg)
Body back	157	5785	-0.23	0.091	11.00	10.76	0.096	1.6

Note:

- When the 1-g Reported SAR is  $\leq 0.8$  W/kg, testing for low and high channel is optional. Refer to KDB 447498.
- The test separation is 0mm

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**Simultaneous Multi-band Transmission Evaluation:**  
**Application Simultaneous Transmission information:**

NO	Simultaneous state	Portable Handset	
		Body-worn	Hotspot
1	WCDMA+ WLAN 2.4GHz (data) + Bluetooth(data)	Yes	Yes
2	LTE + WLAN 2.4GHz (data) + Bluetooth(data)	Yes	Yes
3	WCDMA+ WLAN 5GHz (data) + Bluetooth(data)	Yes	Yes
4	LTE + WLAN 5GHz (data) + Bluetooth(data)	Yes	Yes

NOTE:

1. WLAN and BT with different antenna, and can transmit simultaneously.
2. Simultaneous with every transmitter must be the same test position.
3. KDB 447498 D01, BT SAR is excluded as below table.
4. KDB 447498 D01, for handsets the test separation distance is determined by the smallest distance between the outer surface of the device and the user; which is 0mm for body-worn SAR.
5. According to KDB 447498 D01 4.3.1, Standalone SAR test exclusion is as follow:  
For 100 MHz to 6 GHz and test separation distances  $\leq 50$  mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:  

$$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$$
for 1-g SAR, and  $\leq 7.5$  for 10-g extremity SAR<sup>30</sup>, where
  - f(GHz) is the RF channel transmit frequency in GHz
  - Power and distance are rounded to the nearest mW and mm before calculation<sup>31</sup>
  - The result is rounded to one decimal place for comparison
  - The values 3.0 and 7.5 are referred to as numeric thresholds in step b) below
The test exclusions are applicable only when the minimum test separation distance is  $\leq 50$  mm, and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is  $< 5$  mm, a distance of 5 mm according to 4.1 f) is applied to determine SAR test exclusion.
6. If the test separation distance is  $< 5$ mm, 5mm is used for excluded SAR calculation.
7. According to KDB 447498 D01 4.3.2, simultaneous transmission SAR test exclusion is as follow:
  - (1) Simultaneous transmission SAR test exclusion is determined for each operating configuration and exposure condition according to the reported standalone SAR of each applicable simultaneous transmitting antenna.
  - (2) Any transmitters and antennas should be considered when calculating simultaneous mode.
  - (3) For mobile phone and PC, it's the sum of all transmitters and antennas at the same mode with same position in each applicable exposure condition
  - (4) When the standalone SAR test exclusion of section 4.3.2 is applied to an antenna that transmits simultaneously with other antennas, the standalone SAR must be estimated according to the following to det  

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

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8. When the sum of SAR is larger than the limit, SAR test exclusion is determined by the SAR to peak location separation ratio. The simultaneous transmitting antennas in each operating mode and exposure condition combination must be considered one pair at a time to determine the SAR to peak location separation ratio to qualify for test exclusion. The ratio is determined by  $(SAR1 + SAR2)1.5/R_i$ , rounded to two decimal digits, and must be  $\leq 0.04$  for all antenna pairs in the configuration to qualify for 1-g SAR test exclusion.

Estimated SAR		Max Power including Tune-up Tolerance		Separation Distance (mm)	Estimated SAR (W/kg)
		dBm	mW		
<b>BT</b>	Body	3	1.995	0	0.082

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**Sum of the SAR for WCDMA Band II & Wi-Fi & BT:**

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		WCDMA Band II	Wi-Fi DTS Band	Bluetooth		
Body-worn	Rear	0.041	0.087	0.082	0.210	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		WCDMA Band II	5.2GHz Wi-Fi Band	Bluetooth		
Body-worn	Rear	0.041	0.092	0.082	0.215	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		WCDMA Band II	5.3GHz Wi-Fi Band	Bluetooth		
Body-worn	Rear	0.041	0.099	0.082	0.222	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		WCDMA Band II	5.6GHz Wi-Fi Band	Bluetooth		
Body-worn	Rear	0.041	0.116	0.082	0.239	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		WCDMA Band II	5.8GHz Wi-Fi Band	Bluetooth		
Body-worn	Rear	0.041	0.096	0.082	0.219	No

**Note:**

-According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than 1.6 W/kg, SPLSR assessment is not required.

-SPLSR mean is "The SAR to Peak Location Separation Ratio "

**Sum of the SAR for WCDMA Band IV & Wi-Fi & BT:**

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		WCDMA Band IV	Wi-Fi DTS Band	Bluetooth		
Body-worn	Rear	0.045	0.087	0.082	0.214	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		WCDMA Band IV	5.2GHz Wi-Fi Band	Bluetooth		
Body-worn	Rear	0.045	0.092	0.082	0.219	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		WCDMA Band IV	5.3GHz Wi-Fi Band	Bluetooth		
Body-worn	Rear	0.045	0.099	0.082	0.226	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		WCDMA Band IV	5.6GHz Wi-Fi Band	Bluetooth		
Body-worn	Rear	0.045	0.116	0.082	0.243	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		WCDMA Band IV	5.8GHz Wi-Fi Band	Bluetooth		
Body-worn	Rear	0.045	0.096	0.082	0.223	No

**Note:**

-According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than 1.6 W/kg, SPLSR assessment is not required.

-SPLSR mean is "The SAR to Peak Location Separation Ratio "

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**Sum of the SAR for WCDMA Band V & Wi-Fi & BT:**

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		WCDMA Band V	Wi-Fi DTS Band	Bluetooth		
Body-worn	Rear	0.217	0.087	0.082	0.386	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		WCDMA Band V	5.2GHz Wi-Fi Band	Bluetooth		
Body-worn	Rear	0.217	0.092	0.082	0.391	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		WCDMA Band II	5.3GHz Wi-Fi Band	Bluetooth		
Body-worn	Rear	0.217	0.099	0.082	0.398	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		WCDMA Band V	5.6GHz Wi-Fi Band	Bluetooth		
Body-worn	Rear	0.217	0.116	0.082	0.415	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		WCDMA Band V	5.8GHz Wi-Fi Band	Bluetooth		
Body-worn	Rear	0.217	0.096	0.082	0.395	No

**Note:**

-According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than 1.6 W/kg, SPLSR assessment is not required.

-SPLSR mean is "The SAR to Peak Location Separation Ratio "

**Sum of the SAR for LTE Band 2 & Wi-Fi & BT:**

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 2	Wi-Fi DTS Band	Bluetooth		
Body-worn	Rear	0.055	0.087	0.082	0.224	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 2	5.2GHz Wi-Fi Band	Bluetooth		
Body-worn	Rear	0.055	0.092	0.082	0.229	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 2	5.3GHz Wi-Fi Band	Bluetooth		
Body-worn	Rear	0.055	0.099	0.082	0.236	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 2	5.6GHz Wi-Fi Band	Bluetooth		
Body-worn	Rear	0.055	0.116	0.082	0.253	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 2	5.8GHz Wi-Fi Band	Bluetooth		
Body-worn	Rear	0.055	0.096	0.082	0.233	No

**Note:**

-According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than 1.6 W/kg, SPLSR assessment is not required.

-SPLSR mean is "The SAR to Peak Location Separation Ratio "

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**Sum of the SAR for LTE Band 4 & Wi-Fi & BT:**

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 4	Wi-Fi DTS Band	Bluetooth		
Body-worn	Rear	0.048	0.087	0.082	0.217	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 4	5.2GHz Wi-Fi Band	Bluetooth		
Body-worn	Rear	0.048	0.092	0.082	0.222	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 4	5.3GHz Wi-Fi Band	Bluetooth		
Body-worn	Rear	0.048	0.099	0.082	0.229	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 4	5.6GHz Wi-Fi Band	Bluetooth		
Body-worn	Rear	0.048	0.116	0.082	0.246	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 4	5.8GHz Wi-Fi Band	Bluetooth		
Body-worn	Rear	0.048	0.096	0.082	0.226	No

**Note:**

- According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than 1.6 W/kg, SPLSR assessment is not required.
- SPLSR mean is “The SAR to Peak Location Separation Ratio “

**Sum of the SAR for LTE Band 5 & Wi-Fi & BT:**

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 5	Wi-Fi DTS Band	Bluetooth		
Body-worn	Rear	0.234	0.087	0.082	0.403	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 5	5.2GHz Wi-Fi Band	Bluetooth		
Body-worn	Rear	0.234	0.092	0.082	0.408	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 5	5.3GHz Wi-Fi Band	Bluetooth		
Body-worn	Rear	0.234	0.099	0.082	0.415	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 5	5.6GHz Wi-Fi Band	Bluetooth		
Body-worn	Rear	0.234	0.116	0.082	0.432	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 5	5.8GHz Wi-Fi Band	Bluetooth		
Body-worn	Rear	0.234	0.096	0.082	0.412	No

**Note:**

- According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than 1.6 W/kg, SPLSR assessment is not required.
- SPLSR mean is “The SAR to Peak Location Separation Ratio “

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**Sum of the SAR for LTE Band 12 & Wi-Fi & BT:**

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 12	Wi-Fi DTS Band	Bluetooth		
Body-worn	Rear	0.127	0.087	0.082	0.296	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 12	5.2GHz Wi-Fi Band	Bluetooth		
Body-worn	Rear	0.127	0.092	0.082	0.301	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 12	5.3GHz Wi-Fi Band	Bluetooth		
Body-worn	Rear	0.127	0.099	0.082	0.308	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 12	5.6GHz Wi-Fi Band	Bluetooth		
Body-worn	Rear	0.127	0.116	0.082	0.325	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 12	5.8GHz Wi-Fi Band	Bluetooth		
Body-worn	Rear	0.127	0.096	0.082	0.305	No

**Note:**

- According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than 1.6 W/kg, SPLSR assessment is not required.
- SPLSR mean is "The SAR to Peak Location Separation Ratio "

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**Sum of the SAR for LTE Band 13 & Wi-Fi & BT:**

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 13	Wi-Fi DTS Band	Bluetooth		
Body-worn	Rear	0.298	0.087	0.082	0.467	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 13	5.2GHz Wi-Fi Band	Bluetooth		
Body-worn	Rear	0.298	0.092	0.082	0.472	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 13	5.3GHz Wi-Fi Band	Bluetooth		
Body-worn	Rear	0.298	0.099	0.082	0.479	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 13	5.6GHz Wi-Fi Band	Bluetooth		
Body-worn	Rear	0.298	0.116	0.082	0.496	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 13	5.8GHz Wi-Fi Band	Bluetooth		
Body-worn	Rear	0.298	0.096	0.082	0.476	No

**Note:**

- According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than 1.6 W/kg, SPLSR assessment is not required.
- SPLSR mean is "The SAR to Peak Location Separation Ratio "

**Sum of the SAR for LTE Band 14 & Wi-Fi & BT:**

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 14	Wi-Fi DTS Band	Bluetooth		
Body-worn	Rear	0.369	0.087	0.082	0.538	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 14	5.2GHz Wi-Fi Band	Bluetooth		
Body-worn	Rear	0.369	0.092	0.082	0.543	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 14	5.3GHz Wi-Fi Band	Bluetooth		
Body-worn	Rear	0.369	0.099	0.082	0.550	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 14	5.6GHz Wi-Fi Band	Bluetooth		
Body-worn	Rear	0.369	0.116	0.082	0.567	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 14	5.8GHz Wi-Fi Band	Bluetooth		
Body-worn	Rear	0.369	0.096	0.082	0.547	No

**Note:**

- According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than 1.6 W/kg, SPLSR assessment is not required.
- SPLSR mean is "The SAR to Peak Location Separation Ratio "

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**Sum of the SAR for LTE Band 66 & Wi-Fi & BT:**

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 66	Wi-Fi DTS Band	Bluetooth		
Body-worn	Rear	0.043	0.087	0.082	0.212	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 66	5.2GHz Wi-Fi Band	Bluetooth		
Body-worn	Rear	0.043	0.092	0.082	0.217	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 66	5.3GHz Wi-Fi Band	Bluetooth		
Body-worn	Rear	0.043	0.099	0.082	0.224	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 66	5.6GHz Wi-Fi Band	Bluetooth		
Body-worn	Rear	0.043	0.116	0.082	0.241	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 66	5.8GHz Wi-Fi Band	Bluetooth		
Body-worn	Rear	0.043	0.096	0.082	0.221	No

**Note:**

- According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than 1.6 W/kg, SPLSR assessment is not required.
- SPLSR mean is “The SAR to Peak Location Separation Ratio “

**Sum of the SAR for LTE Band 71 & Wi-Fi & BT:**

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 71	Wi-Fi DTS Band	Bluetooth		
Body-worn	Rear	0.085	0.087	0.082	0.254	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 71	5.2GHz Wi-Fi Band	Bluetooth		
Body-worn	Rear	0.085	0.092	0.082	0.259	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 71	5.3GHz Wi-Fi Band	Bluetooth		
Body-worn	Rear	0.085	0.099	0.082	0.266	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 71	5.6GHz Wi-Fi Band	Bluetooth		
Body-worn	Rear	0.085	0.116	0.082	0.283	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 71	5.8GHz Wi-Fi Band	Bluetooth		
Body-worn	Rear	0.085	0.096	0.082	0.263	No

**Note:**

- According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than 1.6 W/kg, SPLSR assessment is not required.
- SPLSR mean is “The SAR to Peak Location Separation Ratio “

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## APPENDIX A. SAR SYSTEM CHECK DATA

Test Laboratory: AGC Lab  
System Check Head 750 MHz

Date: Dec. 09, 2023

DUT: Dipole 750 MHz Type: SID 750

Communication System CW; Communication System Band: D750 (750.0 MHz); Duty Cycle: 1:1; Conv.F=1.95  
Frequency: 750 MHz; Medium parameters used:  $f = 750$  MHz;  $\sigma=0.87$  mho/m;  $\epsilon_r = 40.13$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;  
Phantom section: Flat Section; Input Power=18dBm  
Ambient temperature (°C):20.8, Liquid temperature (°C): 20.5

SATIMO Configuration:

Probe: SSE2; Calibrated: May 31, 2023; Serial No.: 2023-EPGO-414

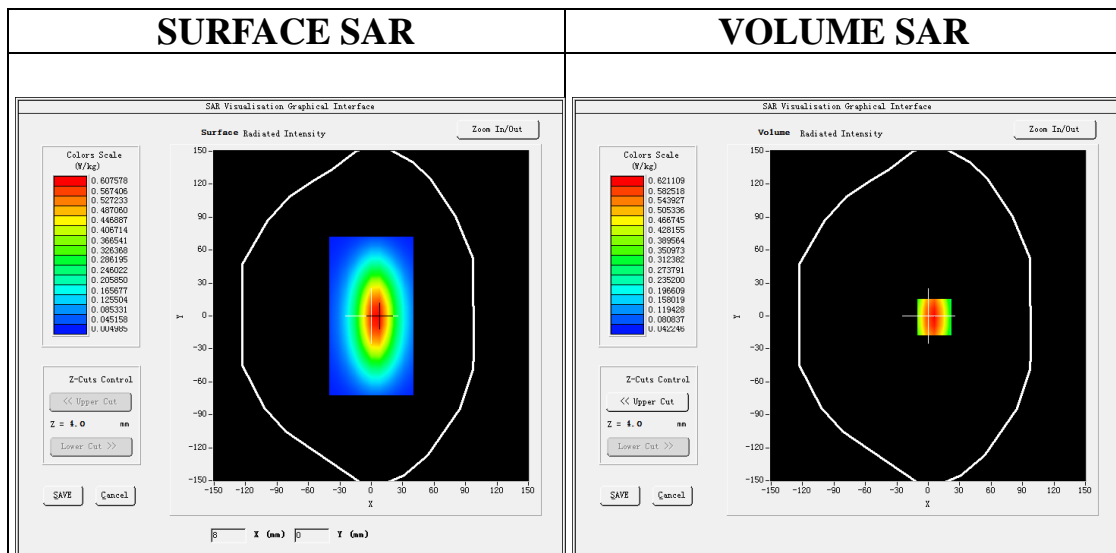
Sensor-Surface: 4mm (Mechanical Surface Detection)

Phantom: SAM twin phantom

Measurement SW: OpenSAR V4\_02\_32

Configuration/System Check 750MHz Head/Area Scan: Measurement grid: dx=8mm, dy=8mm

Configuration/System Check 750MHz Head/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm



**Maximum location: X=6.00, Y=-1.00**

**SAR Peak: 0.88 W/kg**

<b>SAR 10g (W/Kg)</b>	0.356028
<b>SAR 1g (W/Kg)</b>	0.564912

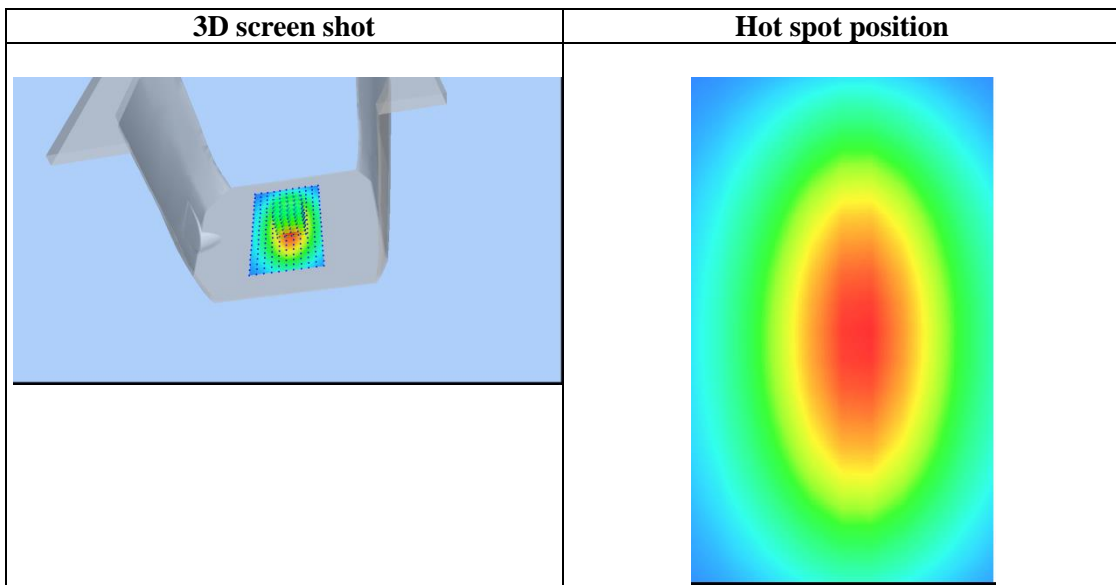
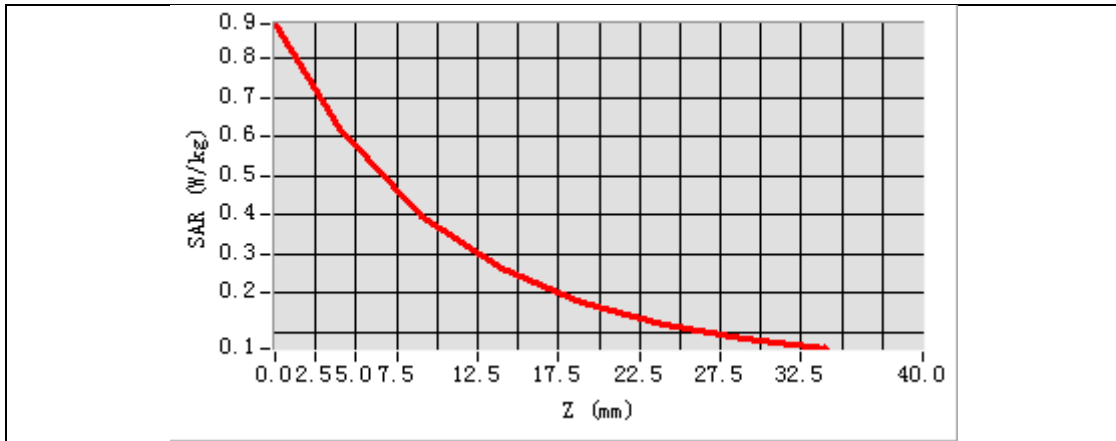
Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
<b>SAR (W/Kg)</b>	<b>0.8867</b>	<b>0.6205</b>	<b>0.3971</b>	<b>0.2623</b>	<b>0.1759</b>	<b>0.1201</b>	<b>0.0818</b>

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Attestation of Global Compliance(Shenzhen)Std & Tech Co., Ltd

Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: http://www.agccert.com/



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**Test Laboratory: AGC Lab**  
**System Check Head 835 MHz**

**Date: Dec. 05, 2023**

**DUT: Dipole 835 MHz Type: SID 835**

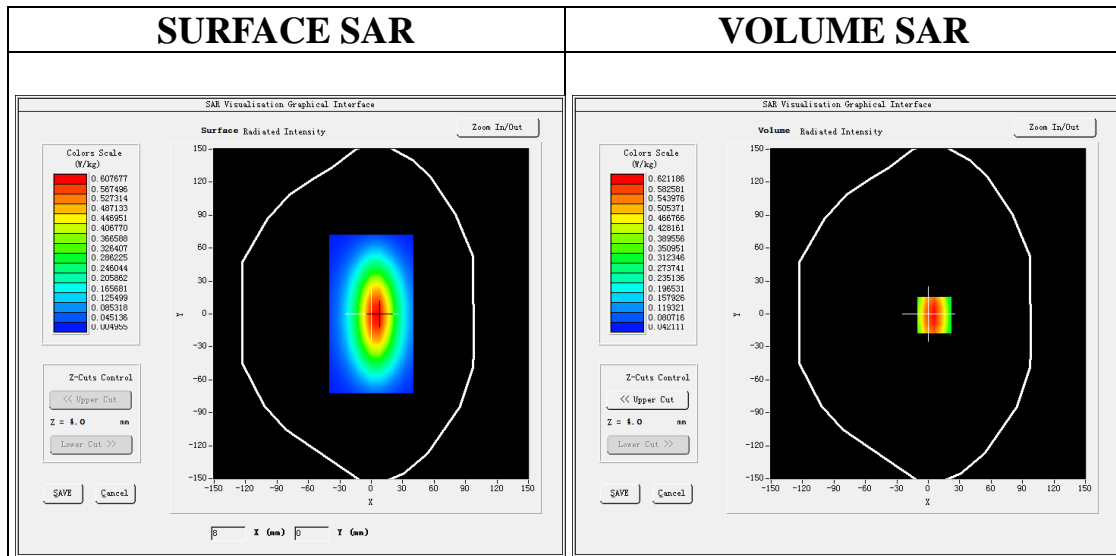
Communication System CW; Communication System Band: D835 (835.0 MHz); Duty Cycle: 1:1; Conv.F=2.02  
Frequency: 835 MHz; Medium parameters used:  $f = 835 \text{ MHz}$ ;  $\sigma=0.91 \text{ mho/m}$ ;  $\epsilon_r=41.28$ ;  $\rho= 1000 \text{ kg/m}^3$  ;  
Phantom section: Flat Section; Input Power=18dBm  
Ambient temperature ( $^{\circ}\text{C}$ ):22.4, Liquid temperature ( $^{\circ}\text{C}$ ): 21.7

**SATIMO Configuration:**

Probe: SSE2; Calibrated: May 31, 2023; Serial No.: 2023-EPGO-414  
Sensor-Surface: 4mm (Mechanical Surface Detection)  
Phantom: SAM twin phantom  
Measurement SW: OpenSAR V4\_02\_32

**Configuration/System Check 835MHz Head/Area Scan:** Measurement grid: dx=8mm, dy=8mm

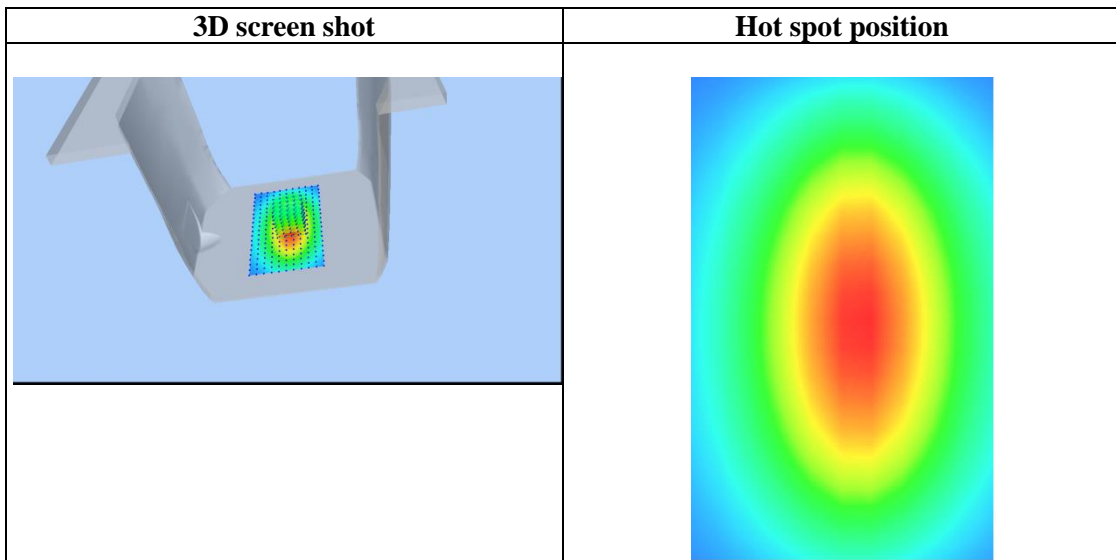
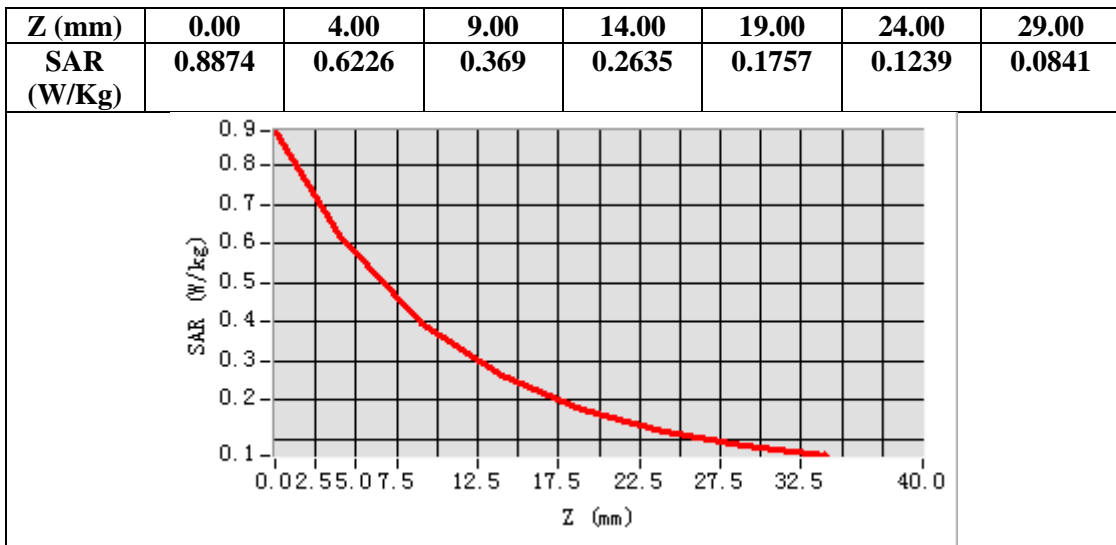
**Configuration/System Check 835MHz Head/Zoom Scan:** Measurement grid: dx=8mm,dy=8mm, dz=5mm



**Maximum location: X=6.00, Y=-1.00**  
**SAR Peak: 0.89 W/kg**

<b>SAR 10g (W/Kg)</b>	0.387524
<b>SAR 1g (W/Kg)</b>	0.606385

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**Test Laboratory: AGC Lab**  
**System Check Head 1750MHz**

**Date: Dec. 20, 2023**

**DUT: Dipole 1800 MHz; Type: SID 1800**

Communication System: CW; Communication System Band: D1700 (1750.0 MHz); Duty Cycle:1:1; Conv.F=2.17  
Frequency: 1750 MHz; Medium parameters used:  $f = 1750\text{MHz}$ ;  $\sigma = 1.41 \text{ mho/m}$ ;  $\epsilon_r = 39.45$ ;  $\rho = 1000 \text{ kg/m}^3$  ;  
Phantom section: Flat Section; Input Power=18dBm  
Ambient temperature ( $^{\circ}\text{C}$ ): 21.7, Liquid temperature ( $^{\circ}\text{C}$ ): 21.2

SATIMO Configuration:

Probe: SSE2; Calibrated: May 31, 2023; Serial No.: 2023-EPGO-414

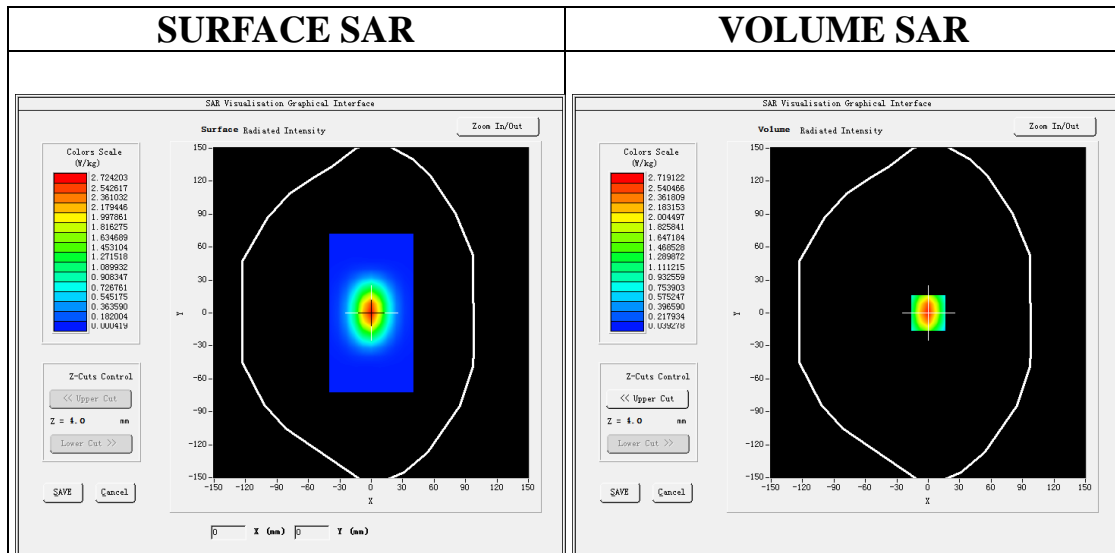
Sensor-Surface: 4mm (Mechanical Surface Detection)

Phantom: SAM twin phantom

Measurement SW: OpenSAR V4\_02\_32

**Configuration/System Check 1750MHz Head/Area Scan:** Measurement grid:  $dx=8\text{mm}, dy=8\text{mm}$

**Configuration/System Check 1750MHz Head/Zoom Scan:** Measurement grid:  $dx=8\text{mm}, dy=8\text{mm}, dz=5\text{mm}$



**Maximum location: X=0.00, Y=0.00**  
**SAR Peak: 4.42 W/kg**

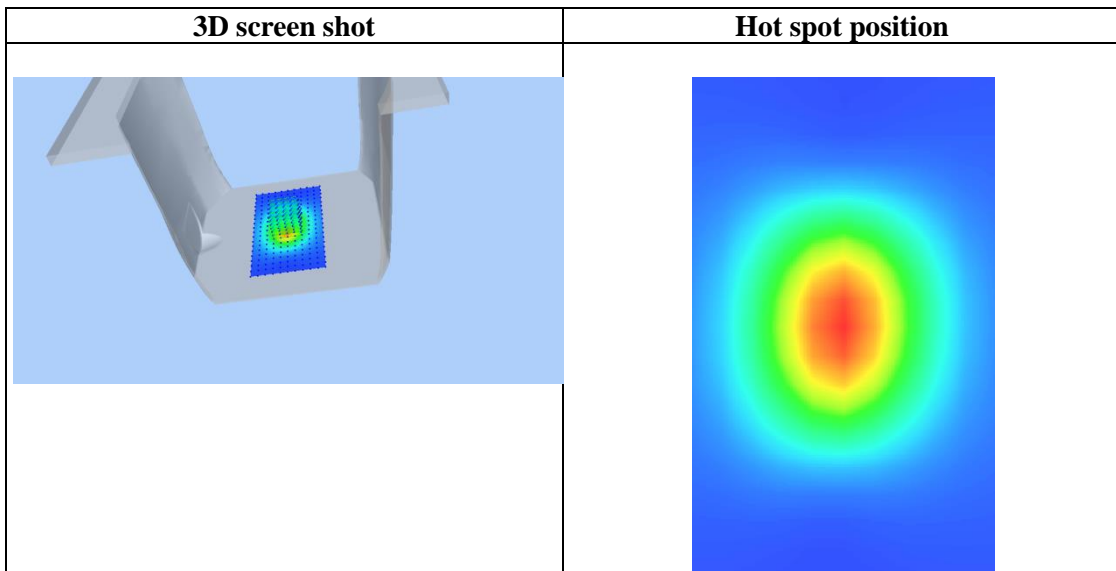
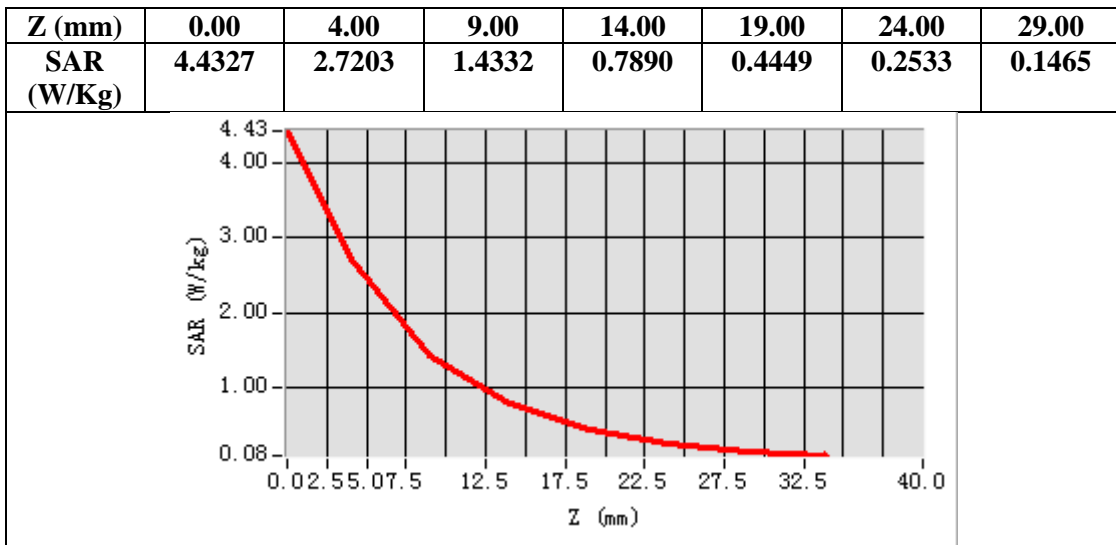
<b>SAR 10g (W/Kg)</b>	1.297581
<b>SAR 1g (W/Kg)</b>	2.562984

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**Test Laboratory: AGC Lab**  
**System Check Head 1900MHz**

**Date: Dec. 01, 2023**

**DUT: Dipole 1900 MHz; Type: SID 1900**

Communication System: CW; Communication System Band: D1900 (1900.0 MHz); Duty Cycle:1:1; Conv.F=2.15  
Frequency: 1900 MHz; Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.42$  mho/m;  $\epsilon_r = 39.09$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;  
Phantom section: Flat Section; Input Power=18dBm  
Ambient temperature (°C):20.7, Liquid temperature (°C): 20.3

SATIMO Configuration:

Probe: SSE2; Calibrated: May 31, 2023; Serial No.: 2023-EPGO-414

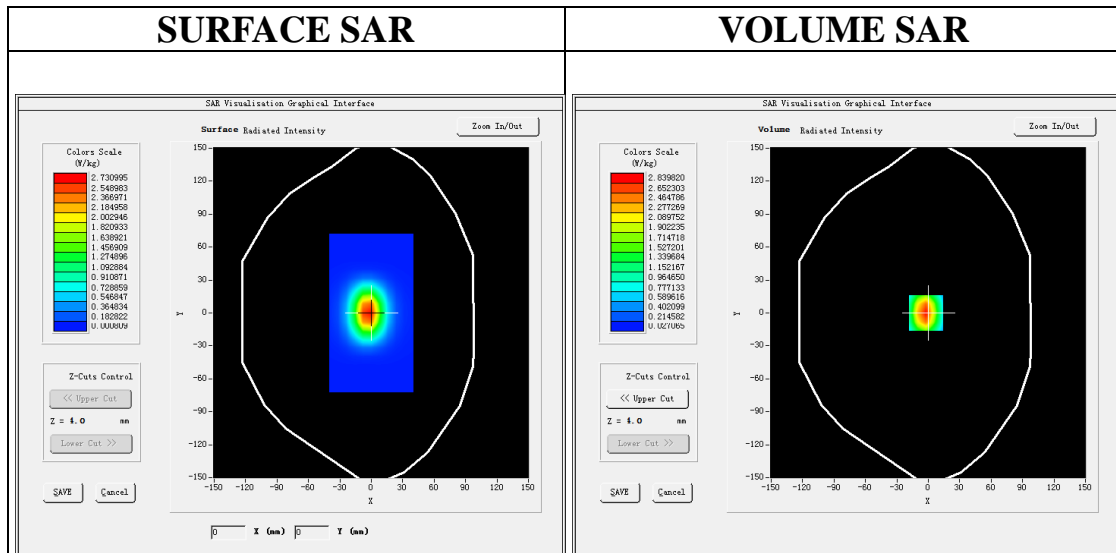
Sensor-Surface: 4mm (Mechanical Surface Detection)

Phantom: SAM twin phantom

Measurement SW: OpenSAR V4\_02\_32

**Configuration/System Check 1900MHz Head/Area Scan:** Measurement grid: dx=8mm, dy=8mm

**Configuration/System Check 1900MHz Head/Zoom Scan:** Measurement grid: dx=8mm,dy=8mm, dz=5mm



**Maximum location: X=-2.00, Y=0.00**

**SAR Peak: 4.71 W/kg**

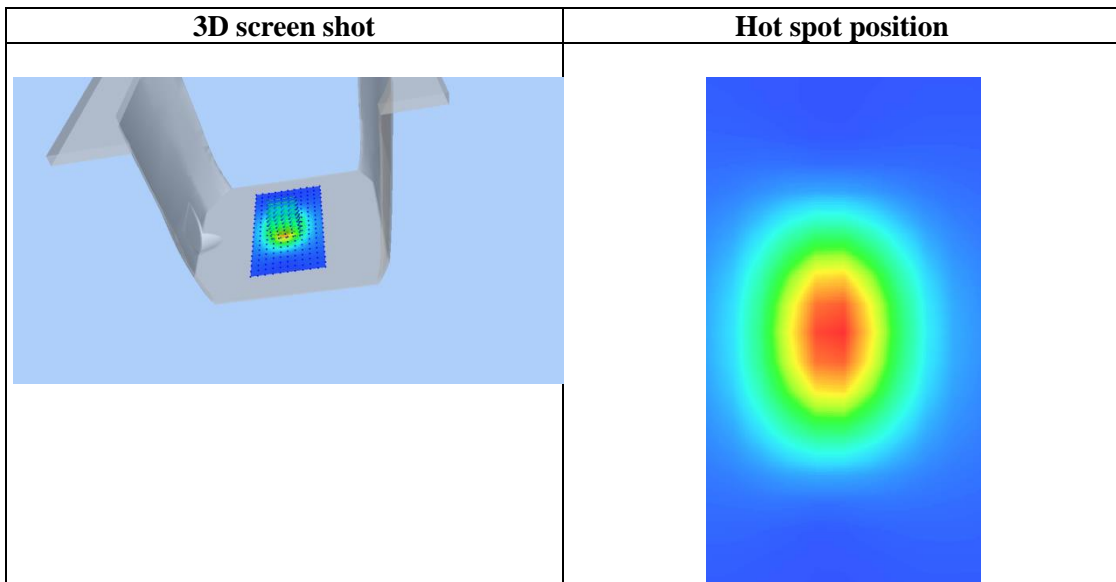
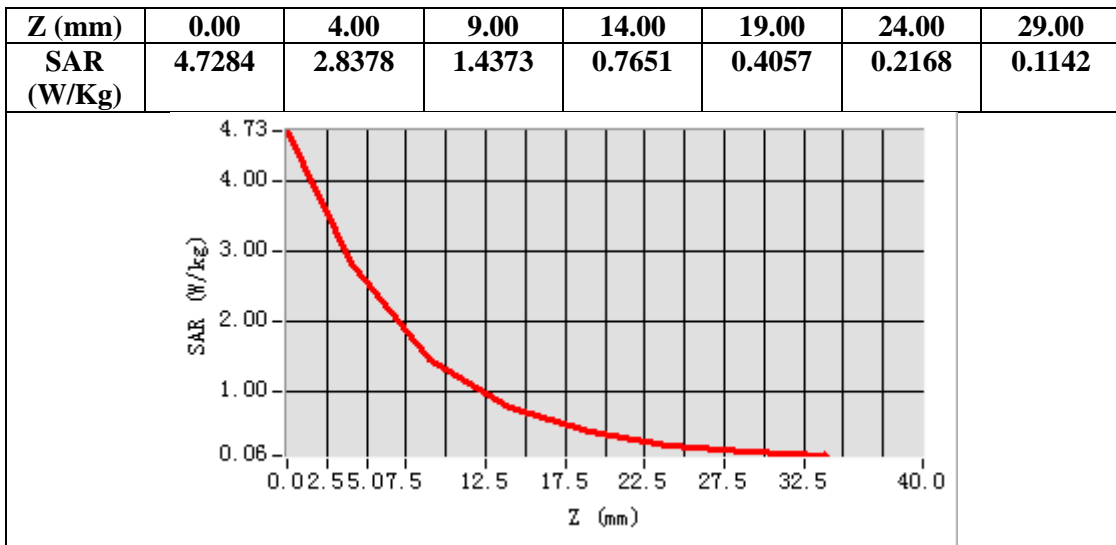
<b>SAR 10g (W/Kg)</b>	1.297192
<b>SAR 1g (W/Kg)</b>	2.670842

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**Test Laboratory: AGC Lab**  
**System Check Head 2450 MHz**

**Date: Dec. 22, 2023**

**DUT: Dipole 2450 MHz Type: SID 2450**

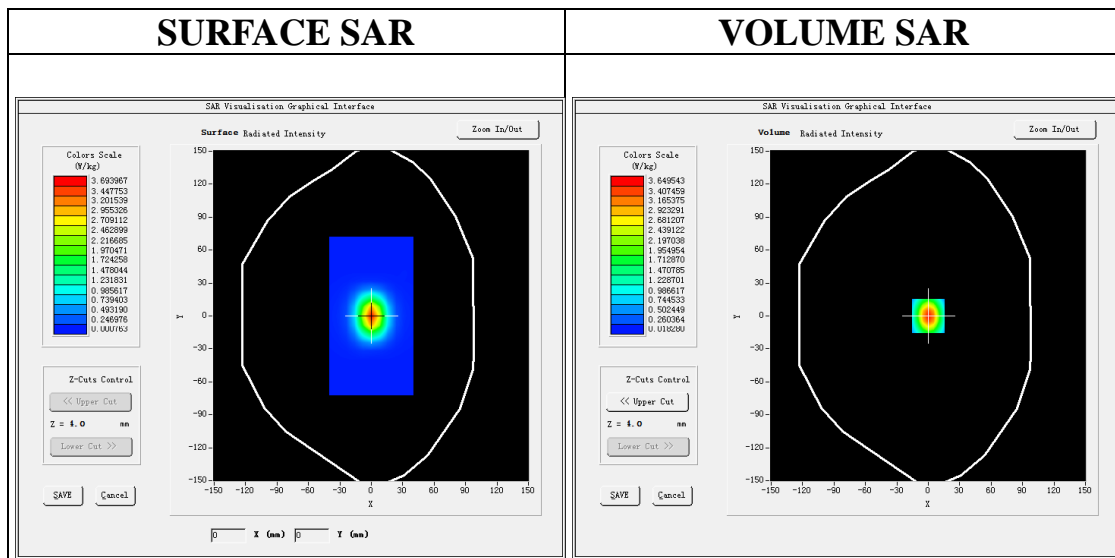
Communication System CW; Communication System Band: D2450 (2450.0 MHz); Duty Cycle: 1:1; Conv.F=2.29  
Frequency: 2450 MHz; Medium parameters used:  $f = 2450$  MHz;  $\sigma = 1.81$  mho/m;  $\epsilon_r = 39.47$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;  
Phantom section: Flat Section; Input Power=18dBm  
Ambient temperature (°C):21.1, Liquid temperature (°C): 20.8

**SATIMO Configuration**

Probe: SSE2; Calibrated: May 31, 2023; Serial No.: 2023-EPGO-414  
Sensor-Surface: 4mm (Mechanical Surface Detection)  
Phantom: SAM twin phantom  
Measurement SW: OpenSAR V4\_02\_32

**Configuration/System Check 2450MHz Head/Area Scan:** Measurement grid: dx=8mm, dy=8mm

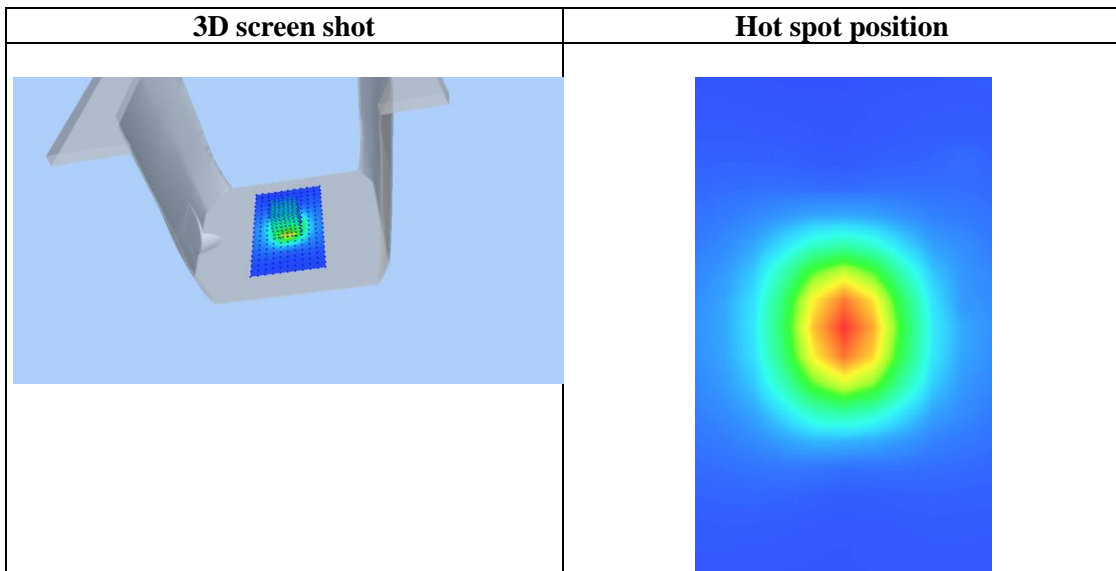
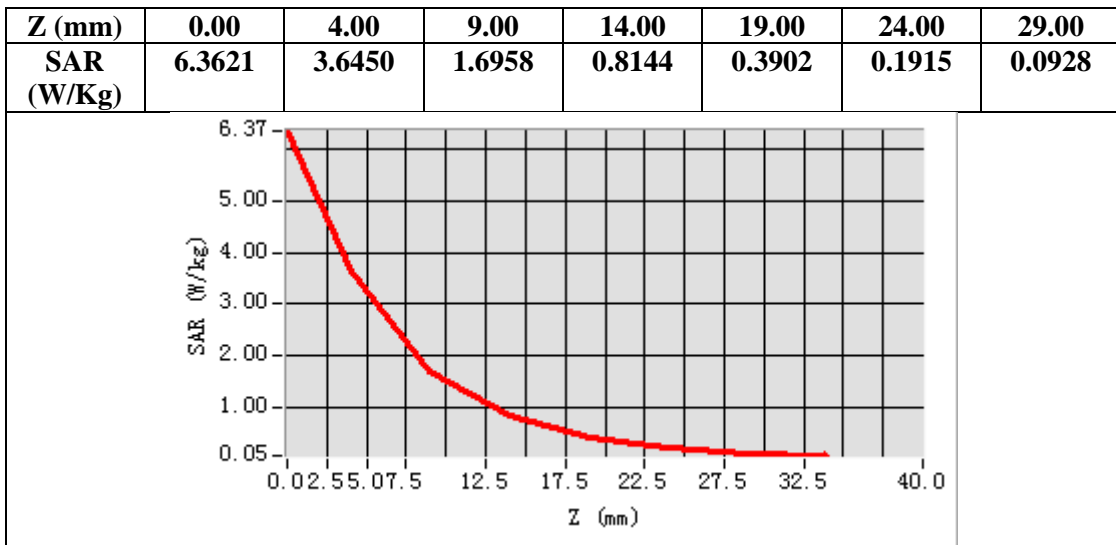
**Configuration/System Check 2450MHz Head/Zoom Scan:** Measurement grid: dx=5mm,dy=5mm, dz=5mm



**Maximum location: X=0.00, Y=0.00**  
**SAR Peak: 6.27 W/kg**

<b>SAR 10g (W/Kg)</b>	1.494517
<b>SAR 1g (W/Kg)</b>	3.337029

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**Test Laboratory: AGC Lab**  
**System Check 5200 MHz**

**Date: Dec. 13, 2023**

**DUT: Dipole 5000MHz Type: SID5500**

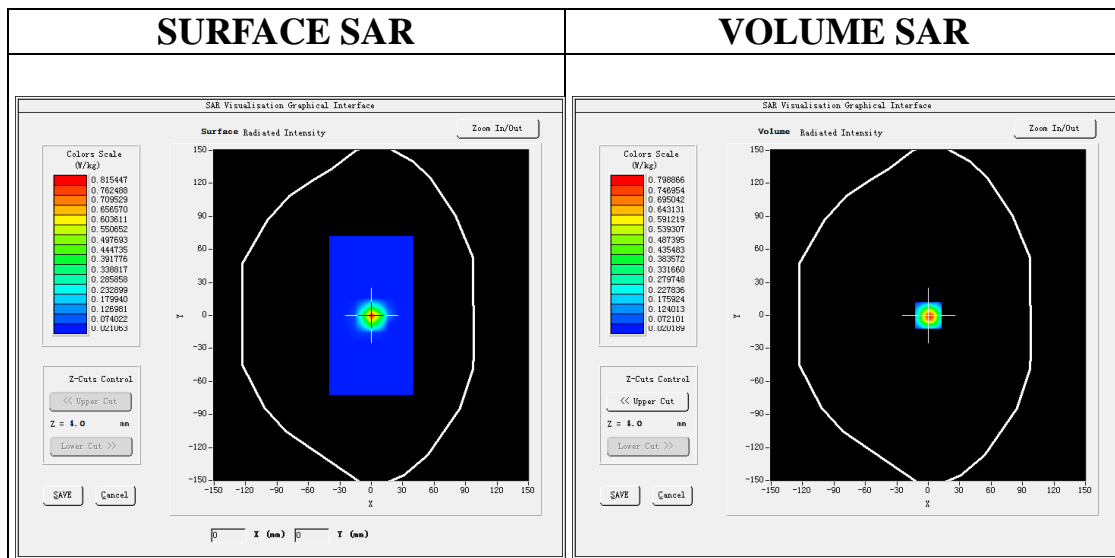
Communication System: CW; Communication System Band: D5000 (5000.0 MHz); Duty Cycle: 1:1; Conv.F=1.35  
Frequency: 5200 MHz; Medium parameters used:  $f = 5200$  MHz;  $\sigma = 4.50$  mho/m;  $\epsilon_r = 36.21$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;  
Phantom section: Flat Section; Input Power=10dBm  
Ambient temperature (°C): 20.1, Liquid temperature (°C): 19.8

SATIMO Configuration:

- Probe: SSE2; Calibrated: May 31, 2023; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4\_02\_32

**Configuration/System Check 5200 MHz Body/Area Scan:** Measurement grid: dx=8mm, dy=8mm

**Configuration/System Check 5200 MHz Body/Zoom Scan:** Measurement grid: dx=4mm,dy=4mm, dz=2mm

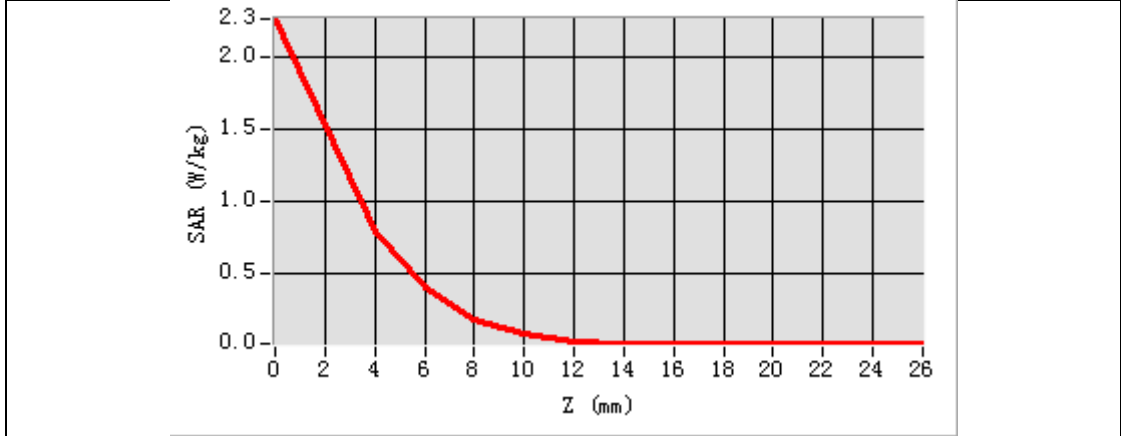


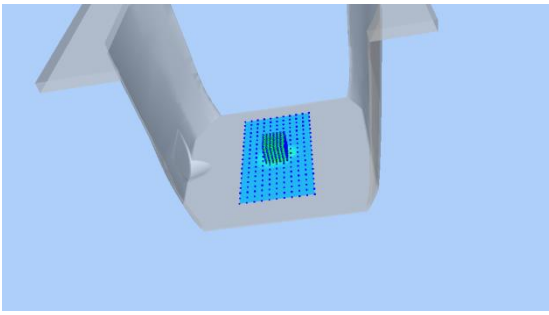
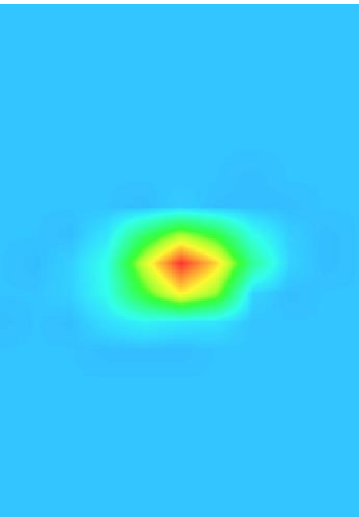
**Maximum location: X=0.00, Y=0.00**  
**SAR Peak: 2.24 W/kg**

<b>SAR 10g (W/Kg)</b>	0.212014
<b>SAR 1g (W/Kg)</b>	0.742209

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Z (mm)	0.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00	24.00
SAR (W/Kg)	2.2591	0.7970	0.4008	0.1805	0.0827	0.0348	0.0254	0.0203	0.0219	0.0211	0.0225	0.0213



3D screen shot	Hot spot position
	

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**Test Laboratory: AGC Lab**  
**System Check Head 5300 MHz**  
**DUT: Dipole 5000MHz Type: SID5000**

**Date: Dec. 14, 2023**

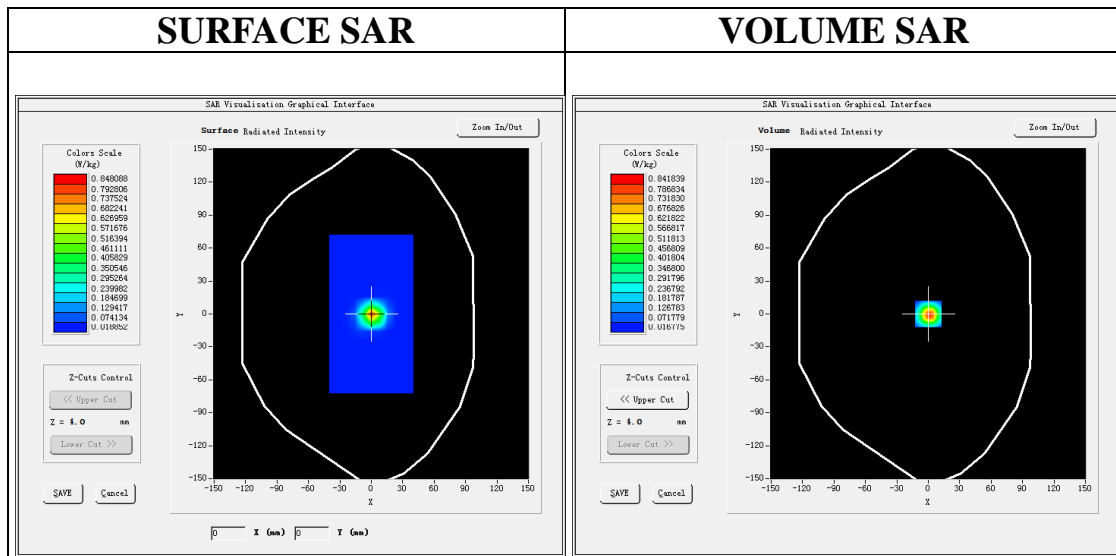
Communication System: CW; Communication System Band: D5000 (5000.0 MHz); Duty Cycle: 1:1; Conv.F=1.35  
Frequency: 5300 MHz; Medium parameters used:  $f = 5300$  MHz;  $\sigma = 4.91$  mho/m;  $\epsilon_r = 36.59$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;  
Phantom section: Flat Section; Input Power=10dBm  
Ambient temperature (°C): 21.3, Liquid temperature (°C): 21.0

**SATIMO Configuration:**

Probe: SSE2; Calibrated: May 31, 2023; Serial No.: 2023-EPGO-414  
Sensor-Surface: 4mm (Mechanical Surface Detection)  
Phantom: SAM twin phantom  
Measurement SW: OpenSAR V4\_02\_32

**Configuration/System Check 5300 MHz Head/Area Scan:** Measurement grid: dx=8mm, dy=8mm

**Configuration/System Check 5300 MHz Head/Zoom Scan:** Measurement grid: dx=4mm,dy=4mm, dz=2mm

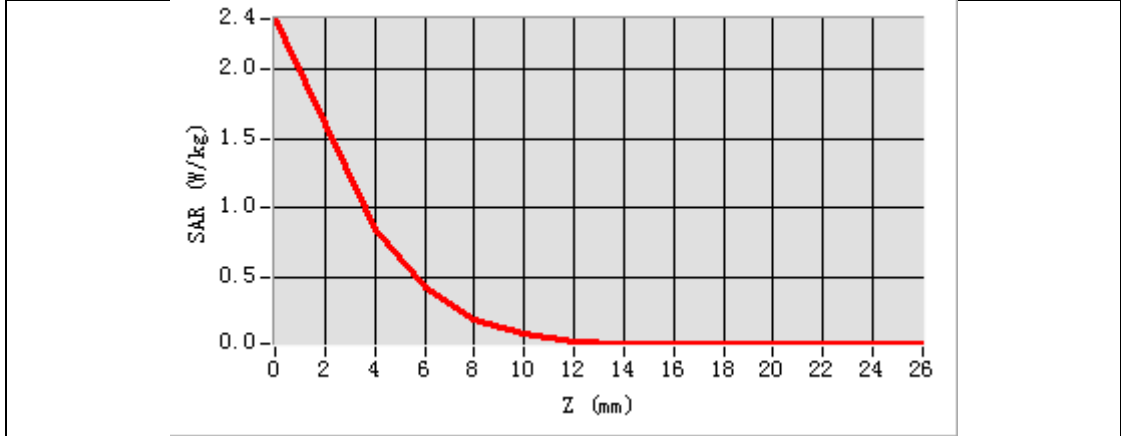


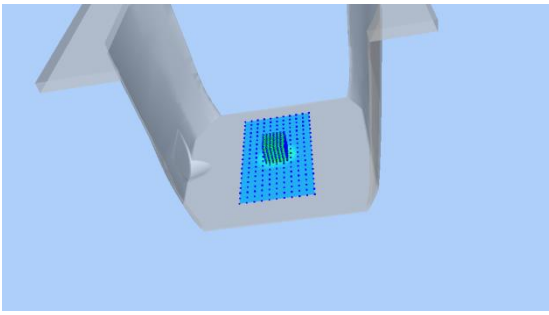
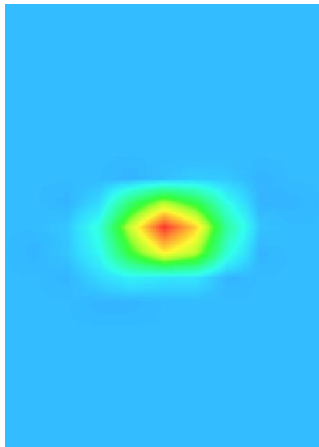
**Maximum location: X=0.00, Y=0.00**  
**SAR Peak: 2.34 W/kg**

<b>SAR 10g (W/Kg)</b>	0.224073
<b>SAR 1g (W/Kg)</b>	0.777915

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Z (mm)	0.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00	24.00
SAR (W/Kg)	2.3698	0.8431	0.4246	0.1966	0.0885	0.0347	0.0259	0.0205	0.0238	0.0230	0.0224	0.0235



3D screen shot	Hot spot position
	

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**Test Laboratory: AGC Lab**  
**System Check Head 5600 MHz**  
**DUT: Dipole 5000MHz Type: SID5000**

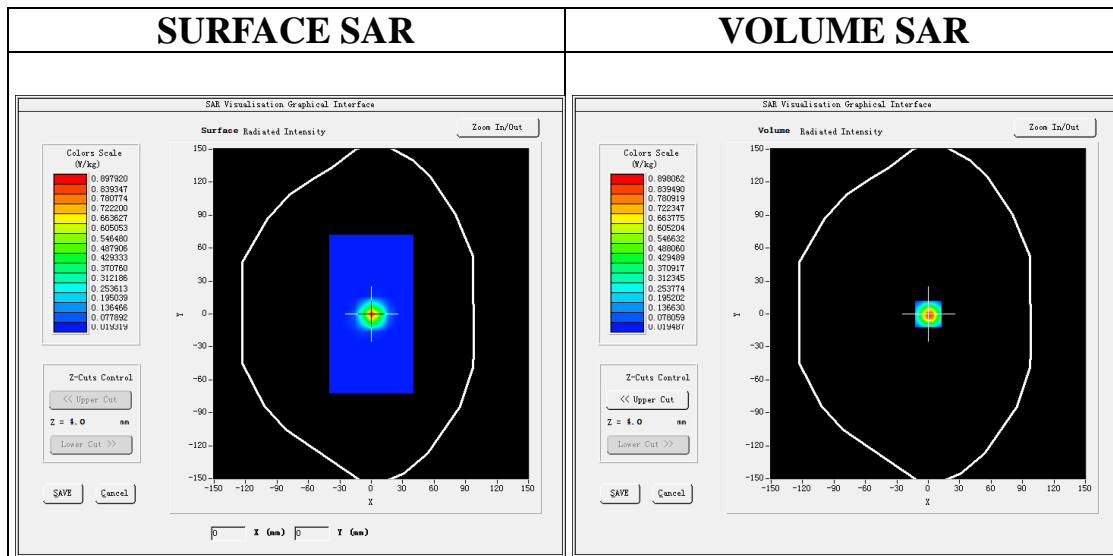
**Date: Dec. 15, 2023**

Communication System: CW; Communication System Band: D5000 (5000.0 MHz); Duty Cycle: 1:1; Conv.F=1.53  
Frequency: 5600 MHz; Medium parameters used:  $f = 5600$  MHz;  $\sigma = 5.14$  mho/m;  $\epsilon_r = 36.55$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;  
Phantom section: Flat Section; Input Power=10dBm  
Ambient temperature (°C): 21.4, Liquid temperature (°C): 21.0

**SATIMO Configuration:**

Probe: SSE2; Calibrated: May 31, 2023; Serial No.: 2023-EPGO-414  
Sensor-Surface: 4mm (Mechanical Surface Detection)  
Phantom: SAM twin phantom  
Measurement SW: OpenSAR V4\_02\_32

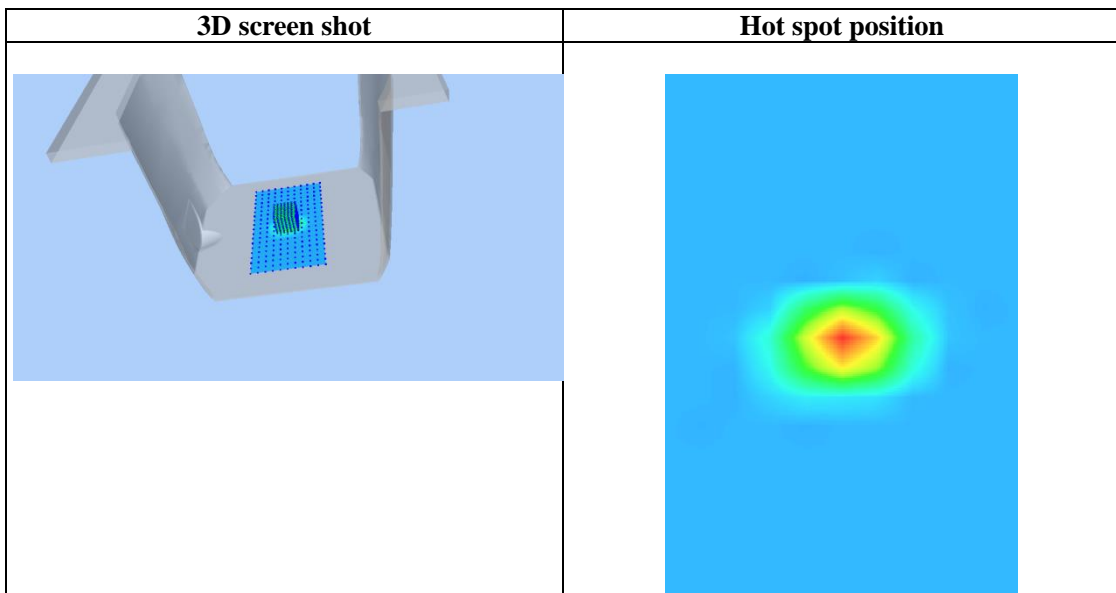
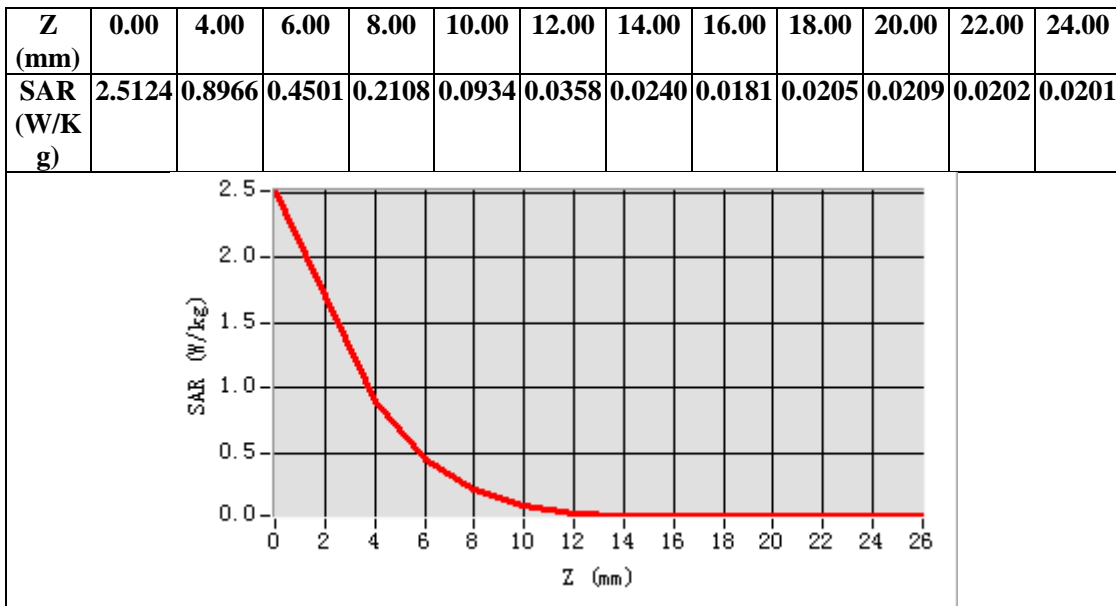
**Configuration/System Check 5600 MHz Head/Area Scan:** Measurement grid: dx=8mm, dy=8mm  
**Configuration/System Check 5600 MHz Head/Zoom Scan:** Measurement grid: dx=4mm,dy=4mm, dz=2mm



**Maximum location: X=0.00, Y=0.00**  
**SAR Peak: 2.49 W/kg**

<b>SAR 10g (W/Kg)</b>	0.232941
<b>SAR 1g (W/Kg)</b>	0.823269

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Test Laboratory: AGC Lab

Date: Dec. 16, 2023

System Check Head 5800 MHz

DUT: Dipole 5000MHz Type: SID5500

Communication System: CW; Communication System Band: D5000 (5000.0 MHz); Duty Cycle: 1:1; Conv.F=1.41

Frequency: 5800 MHz; Medium parameters used:  $f = 5800$  MHz;  $\sigma = 5.25$  mho/m;  $\epsilon_r = 35.23$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;

Phantom section: Flat Section; Input Power=10dBm

Ambient temperature (°C): 21.7, Liquid temperature (°C): 21.3

SATIMO Configuration:

Probe: SSE2; Calibrated: May 31, 2023; Serial No.: 2023-EPGO-414

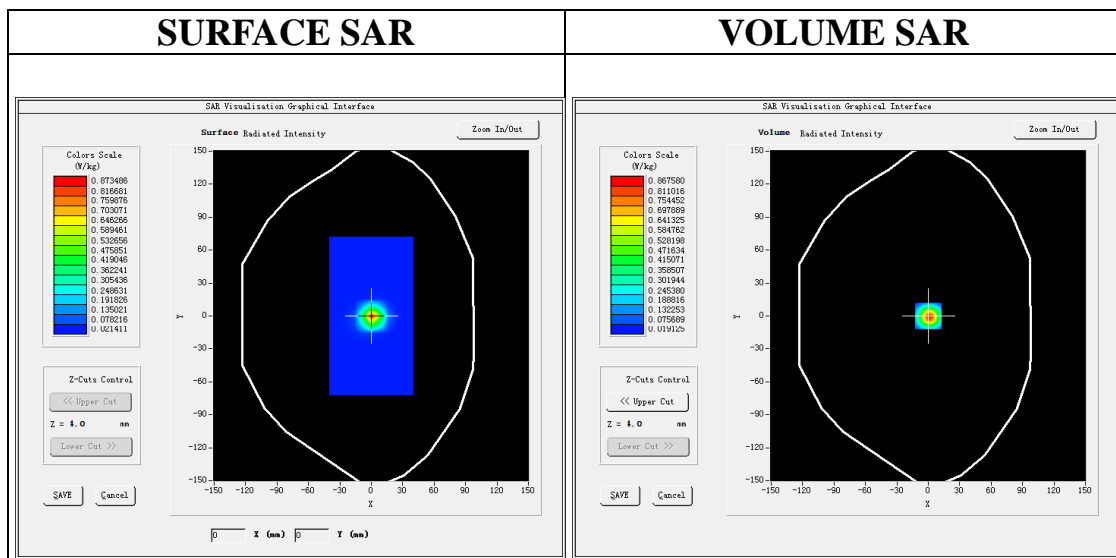
Sensor-Surface: 4mm (Mechanical Surface Detection)

Phantom: SAM twin phantom

Measurement SW: OpenSAR V4\_02\_32

Configuration/System Check 5800 MHz Head/Area Scan: Measurement grid: dx=8mm, dy=8mm

Configuration/System Check 5800 MHz Head/Zoom Scan: Measurement grid: dx=4mm,dy=4mm, dz=2mm



Maximum location: X=0.00, Y=0.00

SAR Peak: 2.45 W/kg

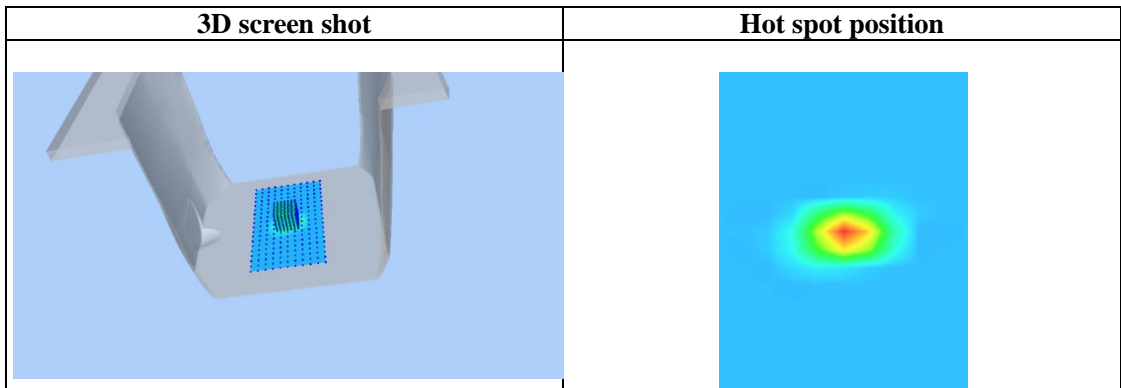
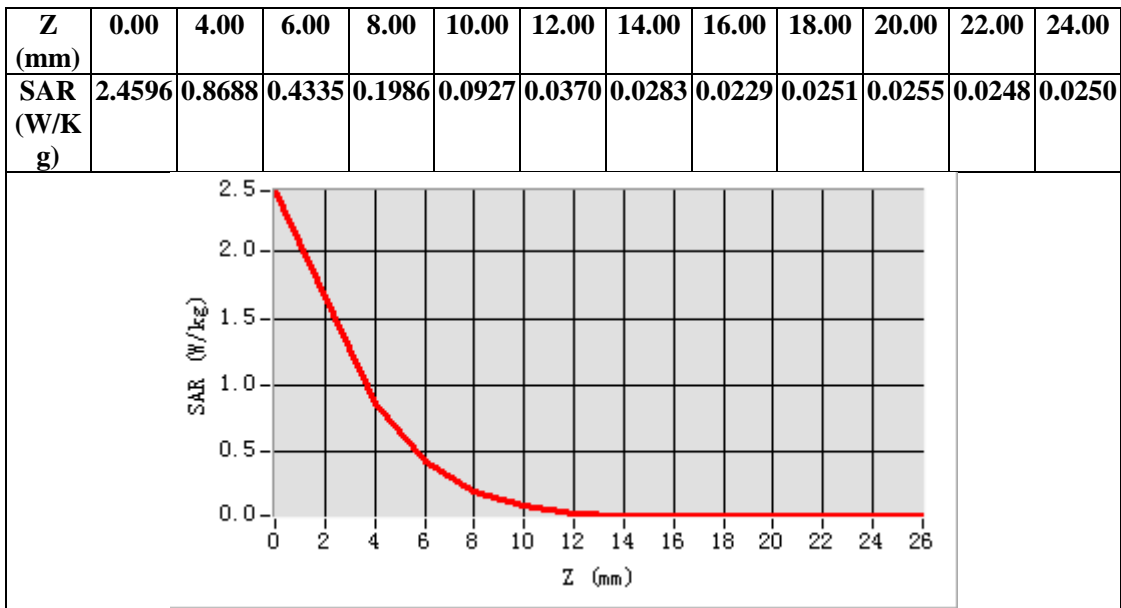
SAR 10g (W/Kg)	0.232296
SAR 1g (W/Kg)	0.806501

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Attestation of Global Compliance(Shenzhen)Co., Ltd

Attestation of Global Compliance(Shenzhen)Std & Tech Co., Ltd

Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: http://www.agccert.com/



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## APPENDIX B. SAR MEASUREMENT DATA

Test Laboratory: AGC Lab  
WCDMA Band II Mid-Back(RMC)  
DUT: Body Worn Camera ; Type: K7

Date: Dec. 01, 2023

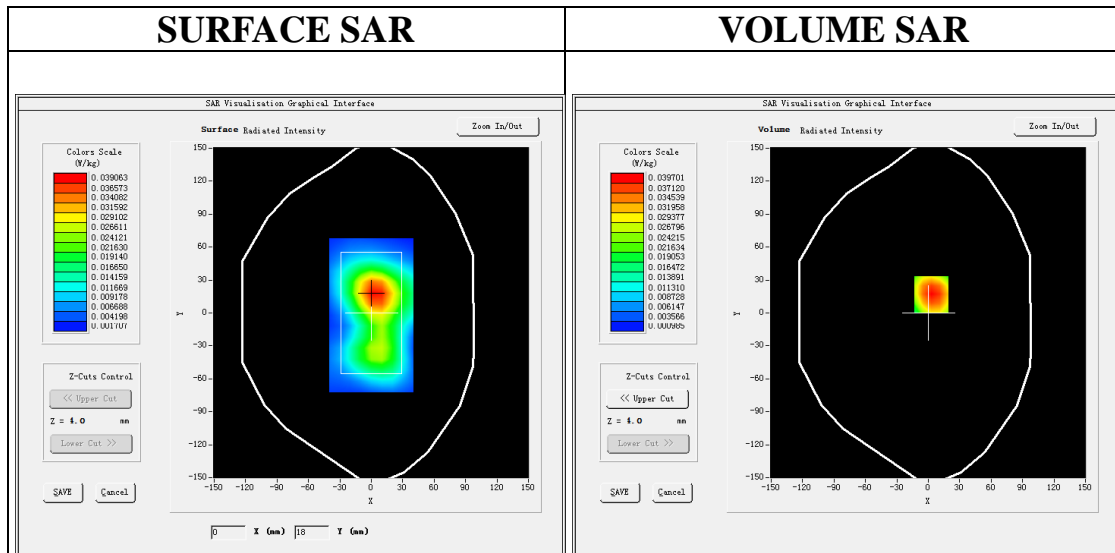
Communication System: UMTS; Communication System Band: Band II UTRA/FDD ;Duty Cycle:1:1; Conv.F=2.15  
Frequency: 1880 MHz; Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.40$  mho/m;  $\epsilon_r = 40.36$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;  
Phantom section: Flat Section  
Ambient temperature (°C): 20.7, Liquid temperature (°C): 20.3

### SATIMO Configuration:

Probe: SSE2; Calibrated: May 31, 2023; Serial No.: 2023-EPGO-414  
Sensor-Surface: 4mm (Mechanical Surface Detection)  
Phantom: SAM twin phantom  
Measurement SW: OpenSAR V4\_02\_32

Configuration/ WCDMA band II Mid-Back/Area Scan: Measurement grid: dx=8mm, dy=8mm  
Configuration/ WCDMA band II Mid-Back/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm;

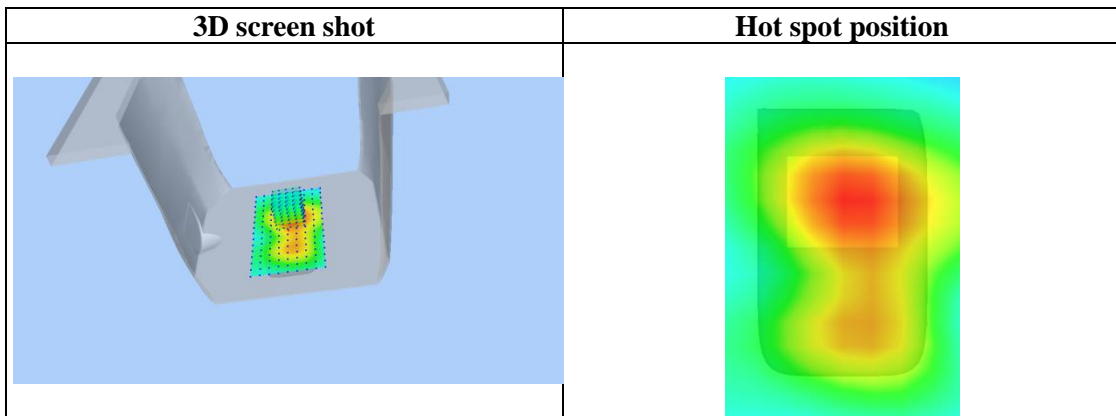
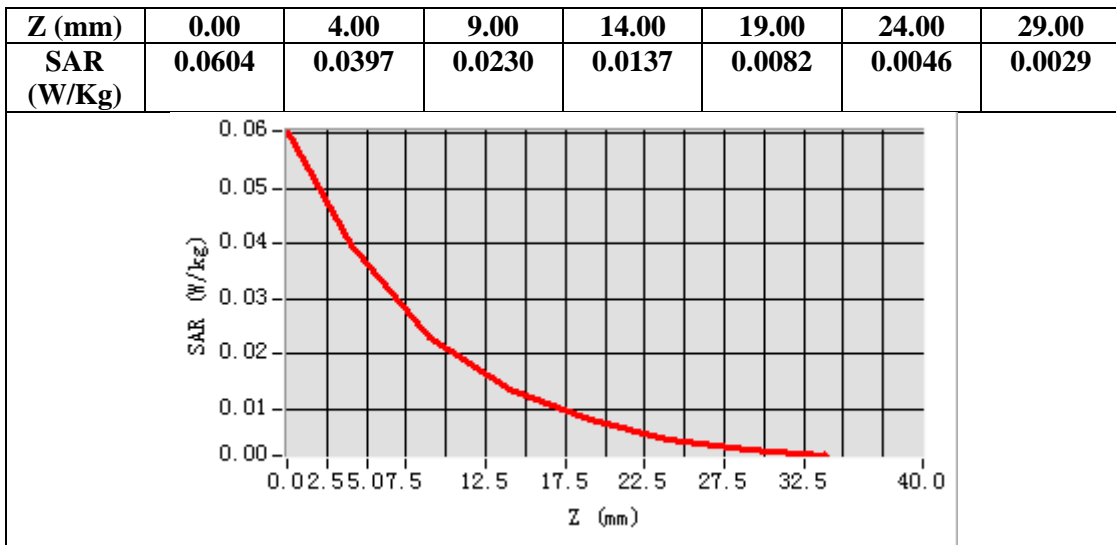
Area Scan	surf_sam_plan.txt, h= 5.00 mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Validation plane
Device Position	Back
Band	WCDMA band II
Channels	Middle
Signal	CDMA (Crest factor: 1.0)



**Maximum location: X=3.00, Y=17.00**  
**SAR Peak: 0.06 W/kg**

SAR 10g (W/Kg)	0.021905
SAR 1g (W/Kg)	0.038159

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Test Laboratory: AGC Lab  
WCDMA Band IV Mid- Back (RMC)  
DUT: Body Worn Camera ; Type: K7

Date: Dec. 20, 2023

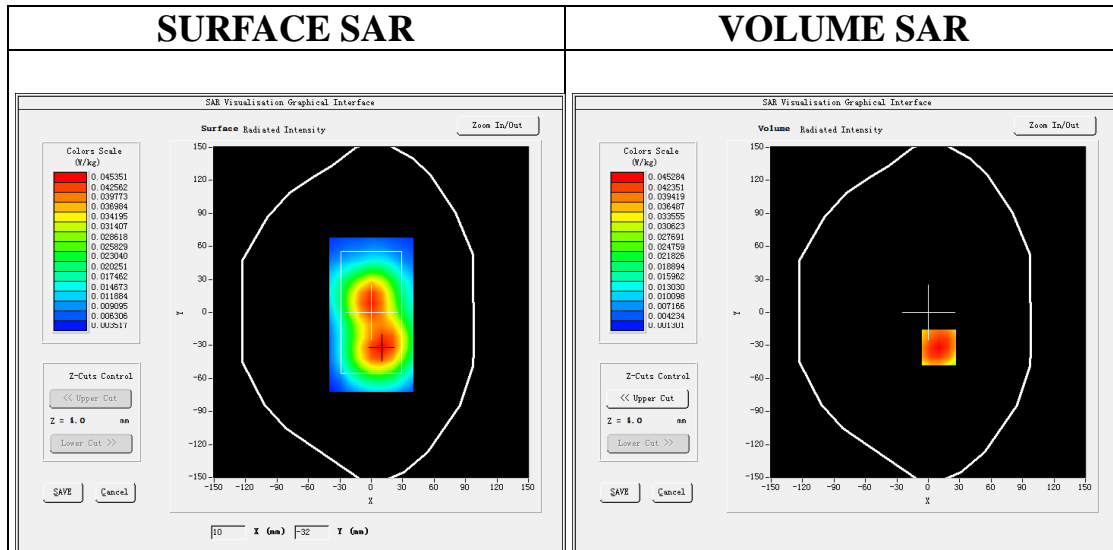
Communication System: UMTS; Communication System Band: BAND IV UTRA/FDD; Duty Cycle:1: 1; Conv.F=2.17;  
Frequency: 1732.4 MHz; Medium parameters used:  $f = 1750$  MHz;  $\sigma=1.36$  mho/m;  $\epsilon_r = 40.92$ ;  $\rho= 1000$  kg/m<sup>3</sup>;  
Phantom section: Flat Section  
Ambient temperature (°C): 21.7, Liquid temperature (°C): 21.2

SATIMO Configuration:

Probe: SSE2; Calibrated: May 31, 2023; Serial No.: 2023-EPGO-414  
Sensor-Surface: 4mm (Mechanical Surface Detection)  
Phantom: SAM twin phantom  
Measurement SW: OpenSAR V4\_02\_32

Configuration/ WCDMA Band IV Mid- Back/Area Scan: Measurement grid: dx=8mm, dy=8mm  
Configuration/ WCDMA Band IV Mid- Back/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm;

Area Scan	surf_sam_plan.txt, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Validation plane
Device Position	Back
Band	WCDMA Band IV
Channels	Mid
Signal	CDMA (Crest factor: 1.0)

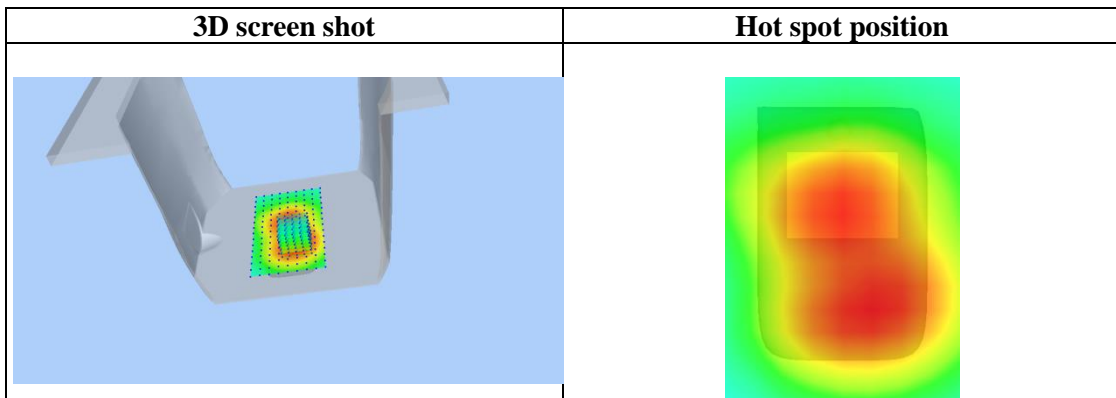
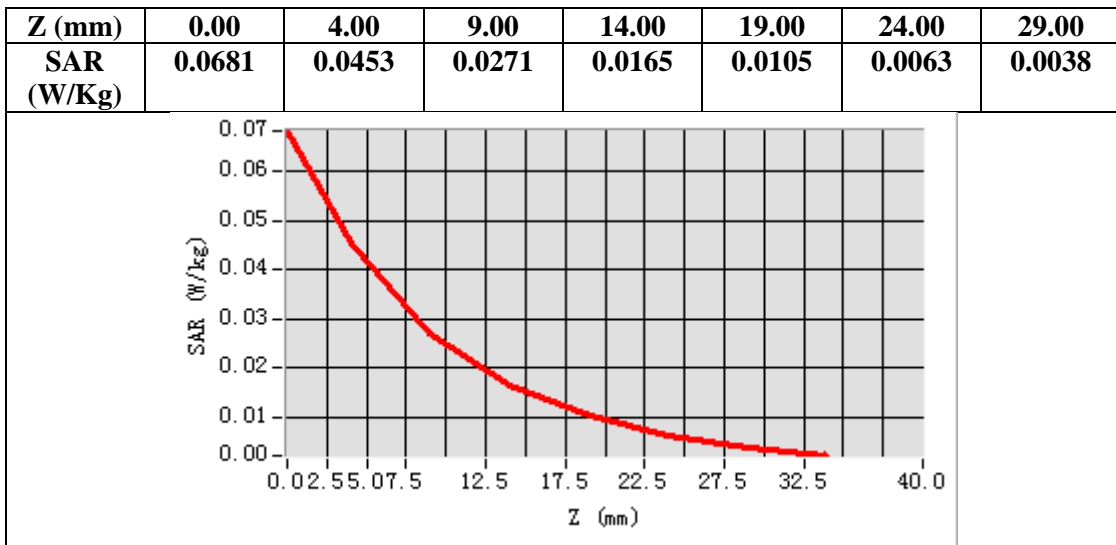


Maximum location: X=10.00, Y=-32.00

SAR Peak: 0.07 W/kg

SAR 10g (W/Kg)	0.026422
SAR 1g (W/Kg)	0.043922

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Test Laboratory: AGC Lab

Date: Dec. 05, 2023

WCDMA Band V Mid- Back (RMC)

DUT: Body Worn Camera ; Type: K7

Communication System: UMTS; Communication System Band: BAND V UTRA/FDD; Duty Cycle:1: 1; Conv.F=2.02; Frequency: 836.4 MHz; Medium parameters used:  $f = 835\text{MHz}$ ;  $\sigma = 0.92\text{ mho/m}$ ;  $\epsilon_r = 40.72$ ;  $\rho = 1000\text{ kg/m}^3$  ; Phantom section: Flat Section  
Ambient temperature (°C): 22.4, Liquid temperature (°C): 21.7

SATIMO Configuration:

Probe: SSE2; Calibrated: May 31, 2023; Serial No.: 2023-EPGO-414

Sensor-Surface: 4mm (Mechanical Surface Detection)

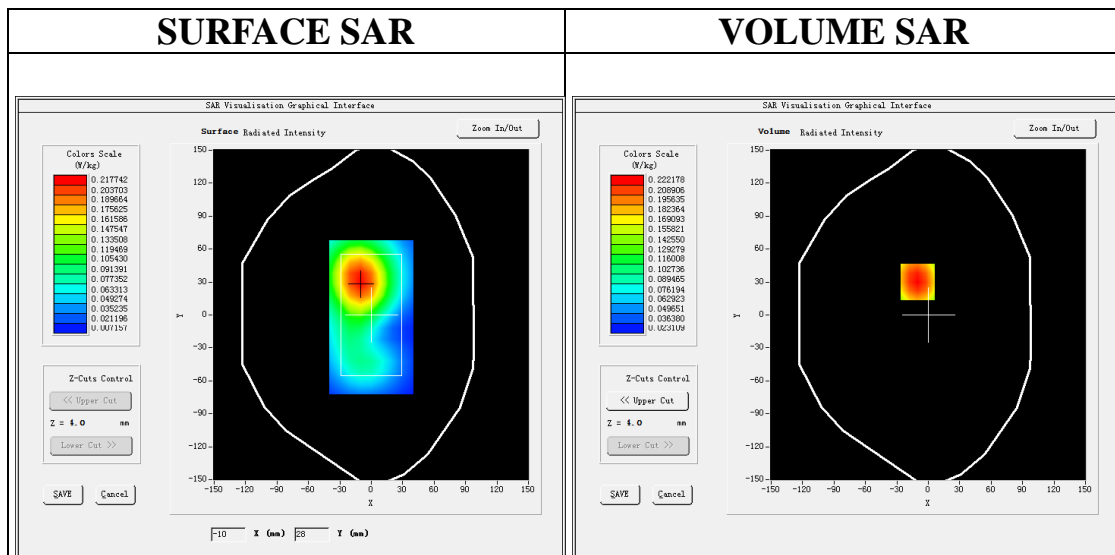
Phantom: SAM twin phantom

Measurement SW: OpenSAR V4\_02\_32

Configuration/ WCDMA Band V Mid- Back/Area Scan: Measurement grid: dx=8mm, dy=8mm

Configuration/ WCDMA Band V Mid- Back/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm;

Area Scan	surf_sam_plan.txt, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Validation plane
Device Position	Back
Band	WCDMA Band V
Channels	Middle
Signal	CDMA (Crest factor: 1.0)



**Maximum location: X=-10.00, Y=30.00**

**SAR Peak: 0.29 W/kg**

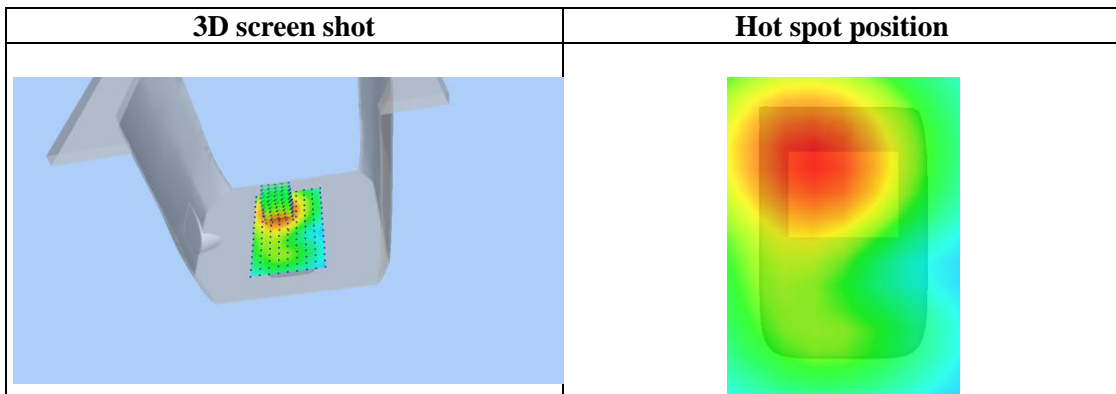
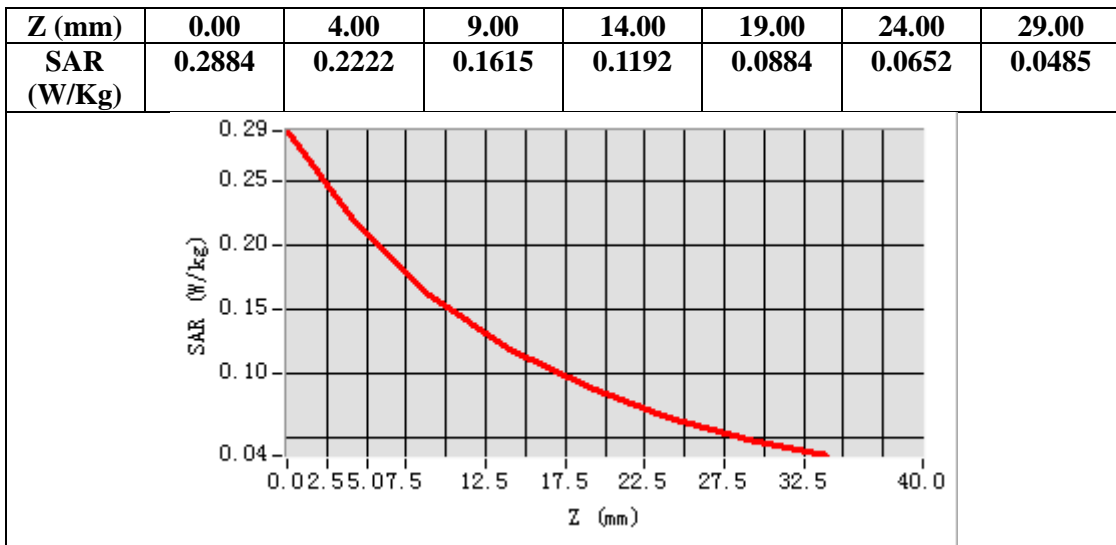
<b>SAR 10g (W/Kg)</b>	0.149927
<b>SAR 1g (W/Kg)</b>	0.214832

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Attestation of Global Compliance(Shenzhen)Co., Ltd

Attestation of Global Compliance(Shenzhen)Std & Tech Co., Ltd

Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: http://www.agccert.com/



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**Test Laboratory: AGC Lab**  
**LTE Band 2 Mid-Back (1 RB#0)**  
**DUT: Body Worn Camera ; Type: K7**

**Date: Dec. 01, 2023**

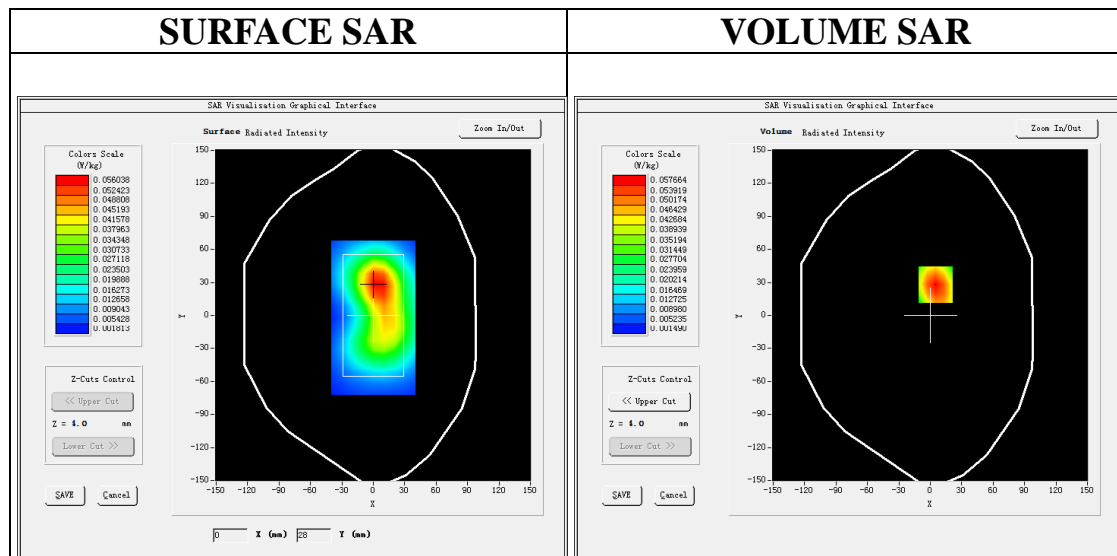
Communication System: LTE; Communication System Band: LTE Band 2; Duty Cycle:1:1; Conv.F=2.15;  
Frequency:1880MHz; Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.40$  mho/m;  $\epsilon_r = 40.36$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;  
Phantom section: Flat Section  
Ambient temperature (°C): 20.7, Liquid temperature (°C): 20.3

**SATIMO Configuration:**

Probe: SSE2; Calibrated: May 31, 2023; Serial No.: 2023-EPGO-414  
Sensor-Surface: 4mm (Mechanical Surface Detection)  
Phantom: SAM twin phantom  
Measurement SW: OpenSAR V4\_02\_32

**Configuration/ LTE Band 2 Mid-Back/Area Scan:** Measurement grid: dx=8mm, dy=8mm  
**Configuration/ LTE Band 2 Mid-Back/Zoom Scan:** Measurement grid: dx=8mm,dy=8mm, dz=5m;

<b>Area Scan</b>	surf_sam_plan.txt, h= 5.00 mm
<b>Zoom Scan</b>	5x5x7,dx=8mm dy=8mm dz=5mm
<b>Phantom</b>	Validation plane
<b>Device Position</b>	Back
<b>Band</b>	LTE Band 2
<b>Channels</b>	Middle
<b>Signal</b>	OFDM (Crest factor: 1.0)

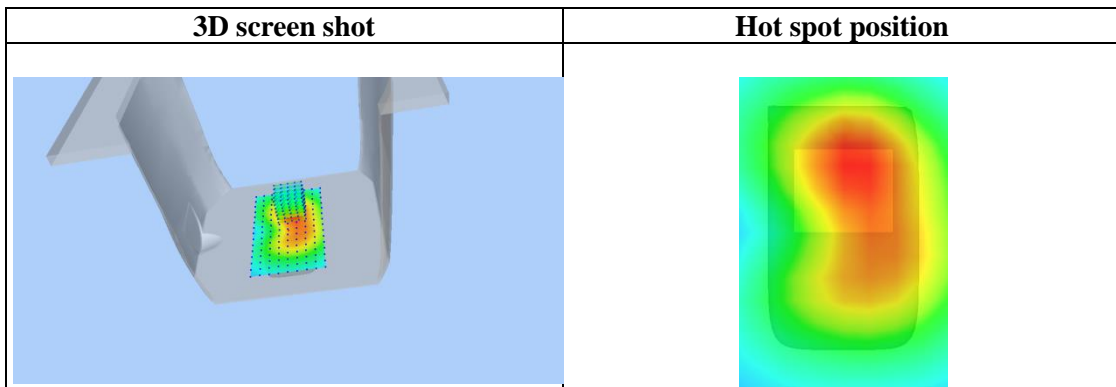
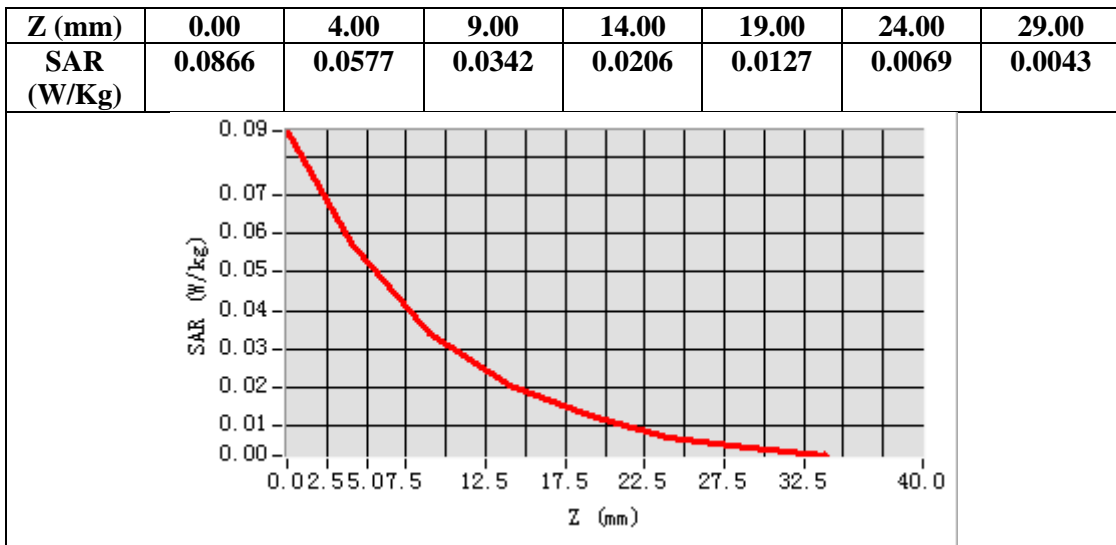


**Maximum location: X=5.00, Y=28.00**

**SAR Peak: 0.09 W/kg**

<b>SAR 10g (W/Kg)</b>	0.032026
<b>SAR 1g (W/Kg)</b>	0.055305

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**Test Laboratory: AGC Lab**  
**LTE Band 4 Mid-Back (1 RB#0)**  
**DUT: Body Worn Camera ; Type: K7**

**Date: Dec. 20, 2023**

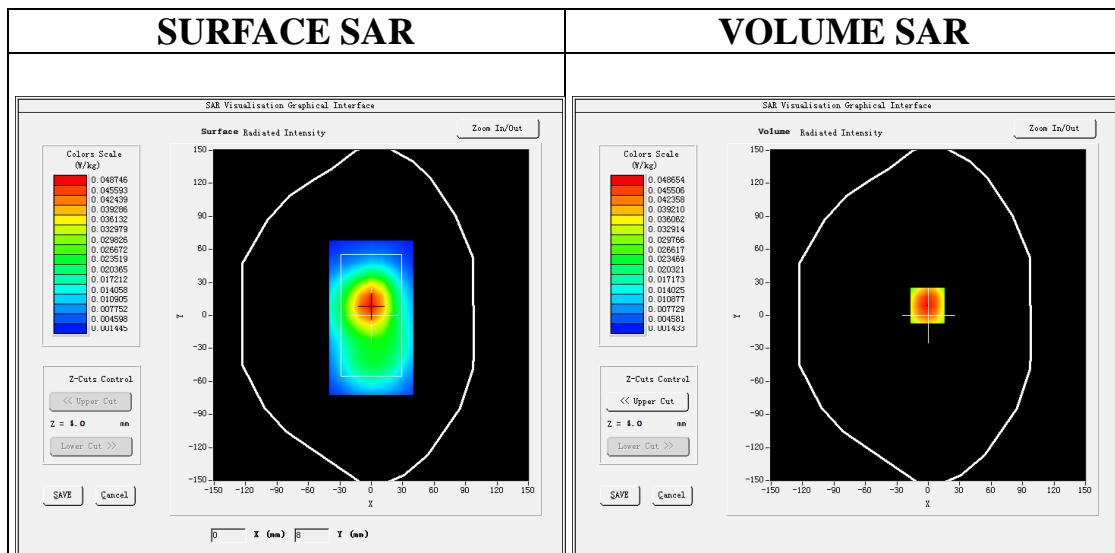
Communication System: LTE; Communication System Band: LTE Band 4; Duty Cycle:1:1; Conv.F=2.17;  
Frequency:1732.5 MHz; Medium parameters used:  $f = 1750$  MHz;  $\sigma = 1.36$  mho/m;  $\epsilon_r = 40.92$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;  
Phantom section: Flat Section  
Ambient temperature (°C): 21.7, Liquid temperature (°C): 21.2

**SATIMO Configuration:**

Probe: SSE2; Calibrated: May 31, 2023; Serial No.: 2023-EPGO-414  
Sensor-Surface: 4mm (Mechanical Surface Detection)  
Phantom: SAM twin phantom  
Measurement SW: OpenSAR V4\_02\_32

**Configuration/ LTE Band 4 Mid-Back/Area Scan:** Measurement grid: dx=8mm, dy=8mm  
**Configuration/ LTE Band 4 Mid-Back/Zoom Scan:** Measurement grid: dx=8mm,dy=8mm, dz=5m;

<b>Area Scan</b>	surf_sam_plan.txt, h= 5.00 mm
<b>Zoom Scan</b>	5x5x7,dx=8mm dy=8mm dz=5mm
<b>Phantom</b>	Validation plane
<b>Device Position</b>	Back
<b>Band</b>	LTE Band 4
<b>Channels</b>	Middle
<b>Signal</b>	OFDM (Crest factor: 1.0)

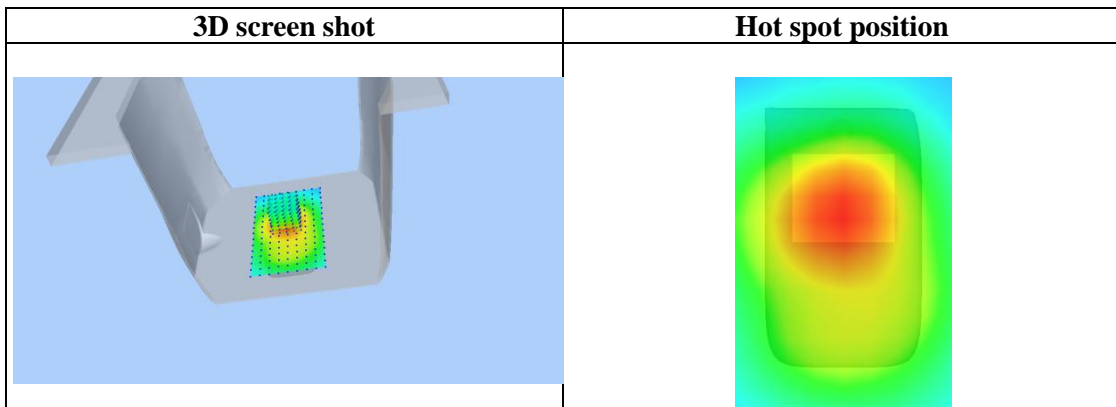
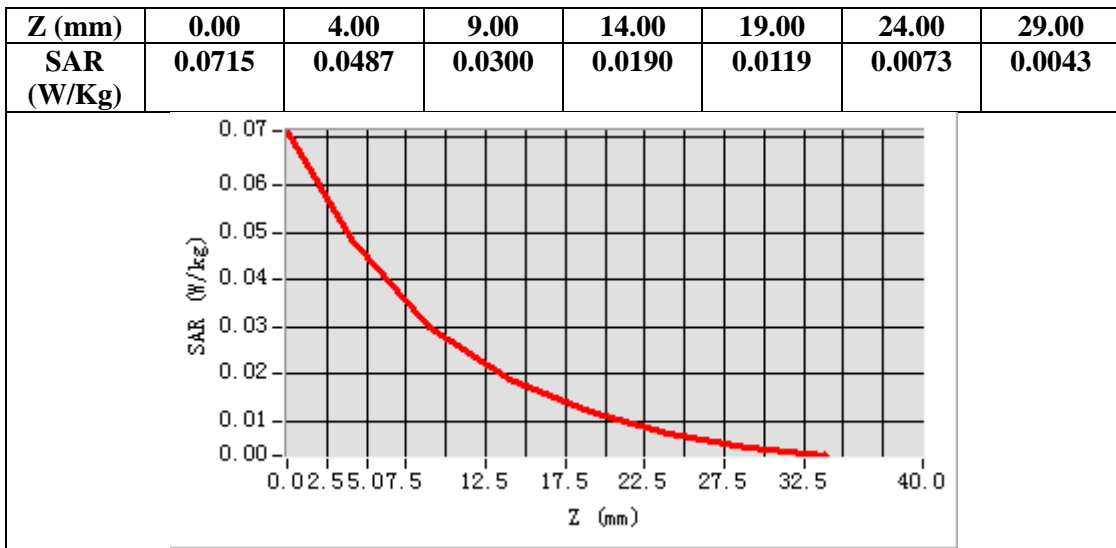


**Maximum location: X=-1.00, Y=9.00**

**SAR Peak: 0.07 W/kg**

<b>SAR 10g (W/Kg)</b>	0.028112
<b>SAR 1g (W/Kg)</b>	0.046862

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**Test Laboratory: AGC Lab**  
**LTE Band 5 Mid-Back (1 RB#0)**  
**DUT: Body Worn Camera ; Type: K7**

**Date: Dec. 05, 2023**

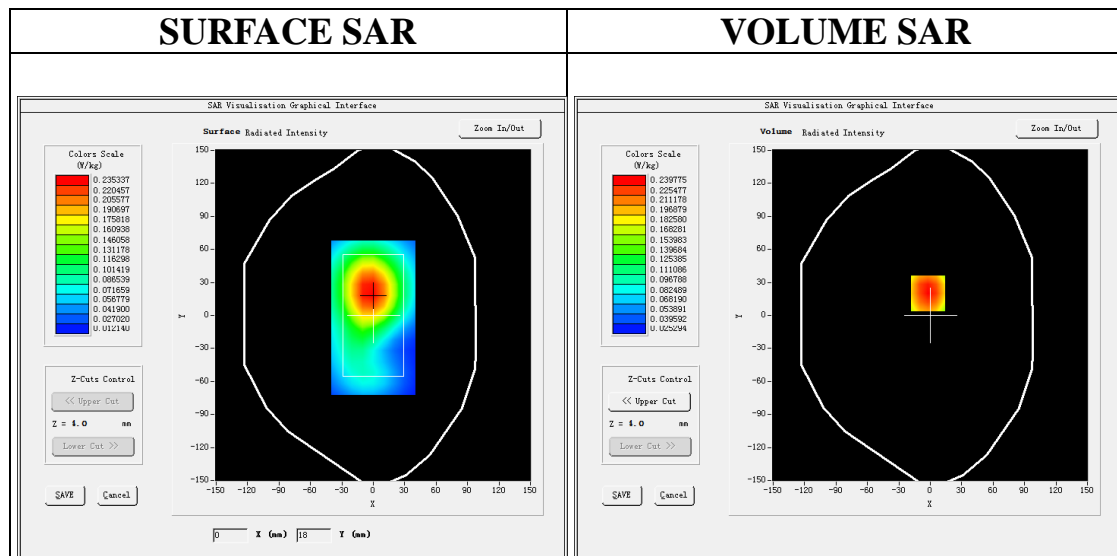
Communication System: LTE; Communication System Band: LTE Band 5; Duty Cycle:1:1; Conv.F=2.02  
Frequency: 836.5 MHz; Medium parameters used:  $f = 835$  MHz;  $\sigma = 0.95$  mho/m;  $\epsilon_r = 39.10$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;  
Phantom section: Flat Section  
Ambient temperature (°C): 22.4, Liquid temperature (°C): 21.7

**SATIMO Configuration:**

Probe: SSE2; Calibrated: May 31, 2023; Serial No.: 2023-EPGO-414  
Sensor-Surface: 4mm (Mechanical Surface Detection)  
Phantom: SAM twin phantom  
Measurement SW: OpenSAR V4\_02\_32

**Configuration/ LTE Band 5 Mid-Back/Area Scan:** Measurement grid: dx=8mm, dy=8mm  
**Configuration/ LTE Band 5 Mid-Back/Zoom Scan:** Measurement grid: dx=8mm,dy=8mm, dz=5mm;

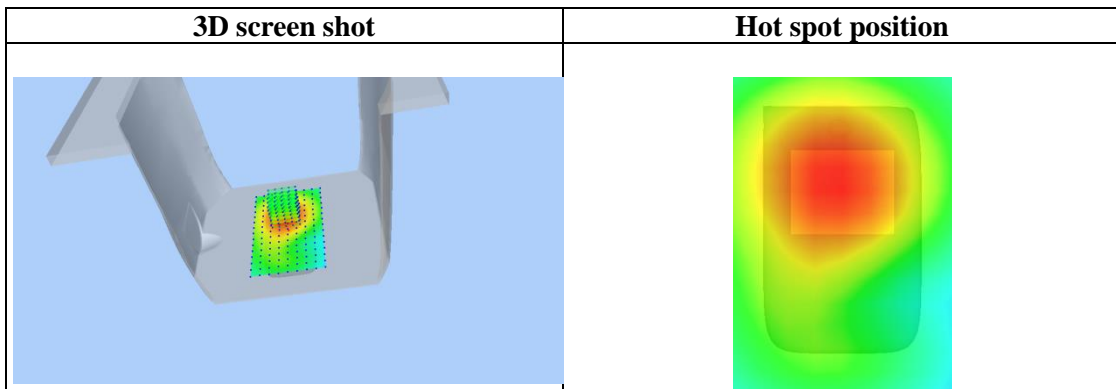
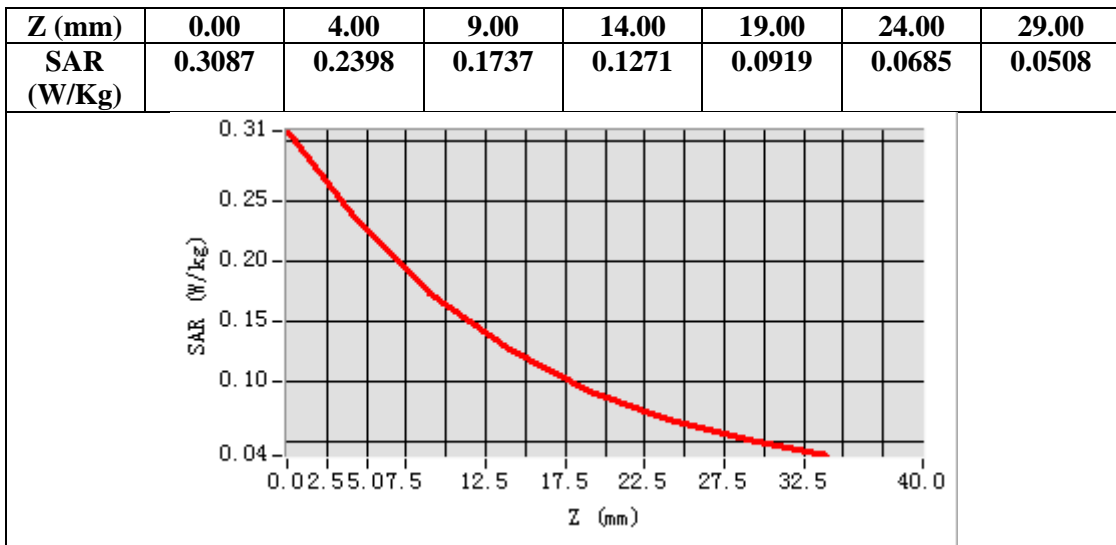
<b>Area Scan</b>	surf_sam_plan.txt, h= 5.00 mm
<b>Zoom Scan</b>	5x5x7,dx=8mm dy=8mm dz=5mm
<b>Phantom</b>	Validation plane
<b>Device Position</b>	Back
<b>Band</b>	LTE Band 5
<b>Channels</b>	Middle
<b>Signal</b>	OFDM (Crest factor: 1.0)



**Maximum location: X=-2.00, Y=20.00**  
**SAR Peak: 0.31 W/kg**

<b>SAR 10g (W/Kg)</b>	0.160036
<b>SAR 1g (W/Kg)</b>	0.230927

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**Test Laboratory: AGC Lab**  
**LTE Band 12 Mid-Back (1 RB#0)**  
**DUT: Body Worn Camera ; Type: K7**

**Date: Dec. 09, 2023**

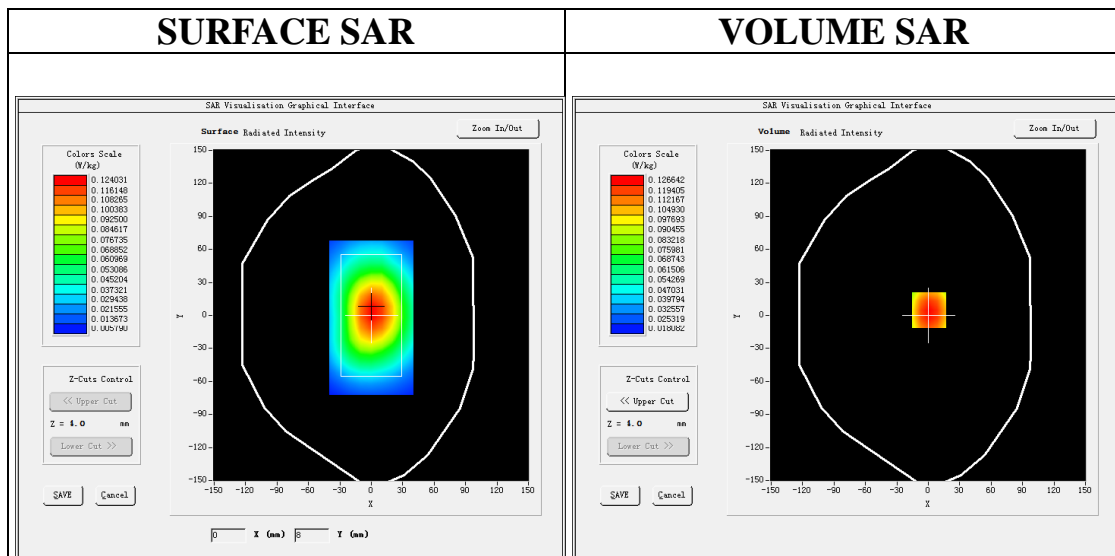
Communication System: LTE; Communication System Band: LTE Band 12; Duty Cycle:1:1; Conv.F=1.95;  
Frequency: 707.5 MHz; Medium parameters used: f = 750 MHz;  $\sigma=0.83$  mho/m;  $\epsilon_r=41.22$ ;  $\rho= 1000$  kg/m<sup>3</sup> ;  
Phantom section: Flat Section  
Ambient temperature (°C): 20.8, Liquid temperature (°C): 20.5

**SATIMO Configuration:**

Probe: SSE2; Calibrated: May 31, 2023; Serial No.: 2023-EPGO-414  
Sensor-Surface: 4mm (Mechanical Surface Detection)  
Phantom: SAM twin phantom  
Measurement SW: OpenSAR V4\_02\_32

**Configuration/ LTE Band 12 Mid-Back/Area Scan:** Measurement grid: dx=8mm, dy=8mm  
**Configuration/ LTE Band 12 Mid-Back/Zoom Scan:** Measurement grid: dx=8mm,dy=8mm, dz=5m;

<b>Area Scan</b>	surf_sam_plan.txt, h= 5.00 mm
<b>Zoom Scan</b>	5x5x7,dx=8mm dy=8mm dz=5mm
<b>Phantom</b>	Validation plane
<b>Device Position</b>	Back
<b>Band</b>	LTE Band 12
<b>Channels</b>	Middle
<b>Signal</b>	OFDM (Crest factor: 1.0)

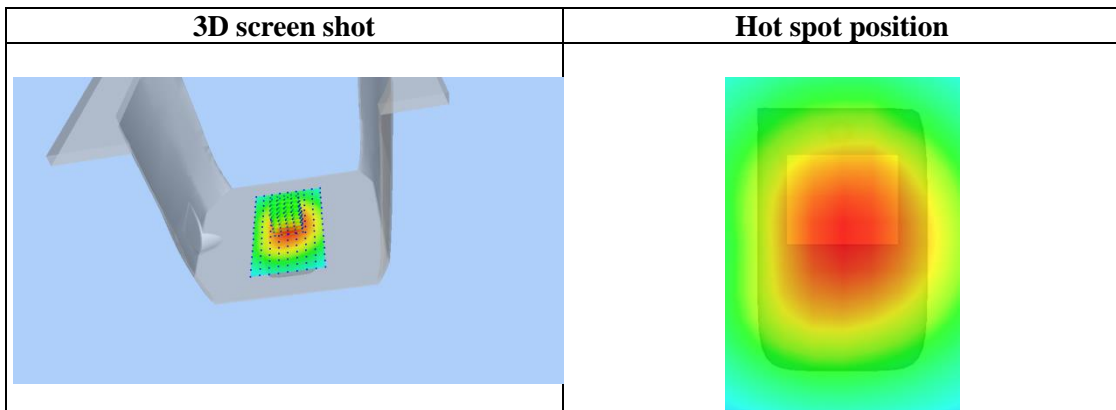
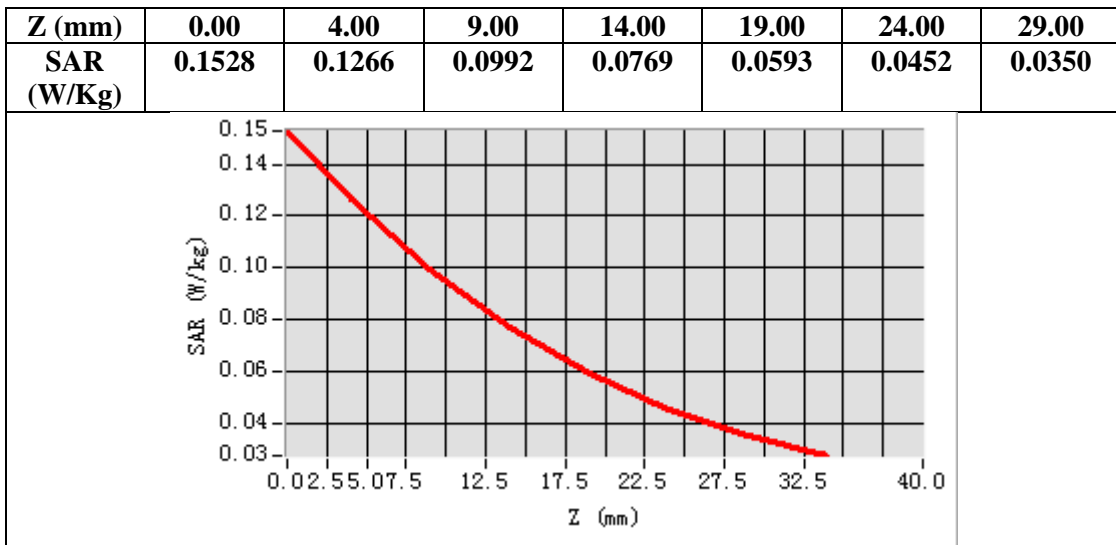


**Maximum location: X=1.00, Y=5.00**

**SAR Peak: 0.15 W/kg**

<b>SAR 10g (W/Kg)</b>	0.092369
<b>SAR 1g (W/Kg)</b>	0.125004

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**Test Laboratory: AGC Lab**  
**LTE Band 13 Mid-Back (1 RB#0)**  
**DUT: Body Worn Camera ; Type: K7**

**Date: Dec. 09, 2023**

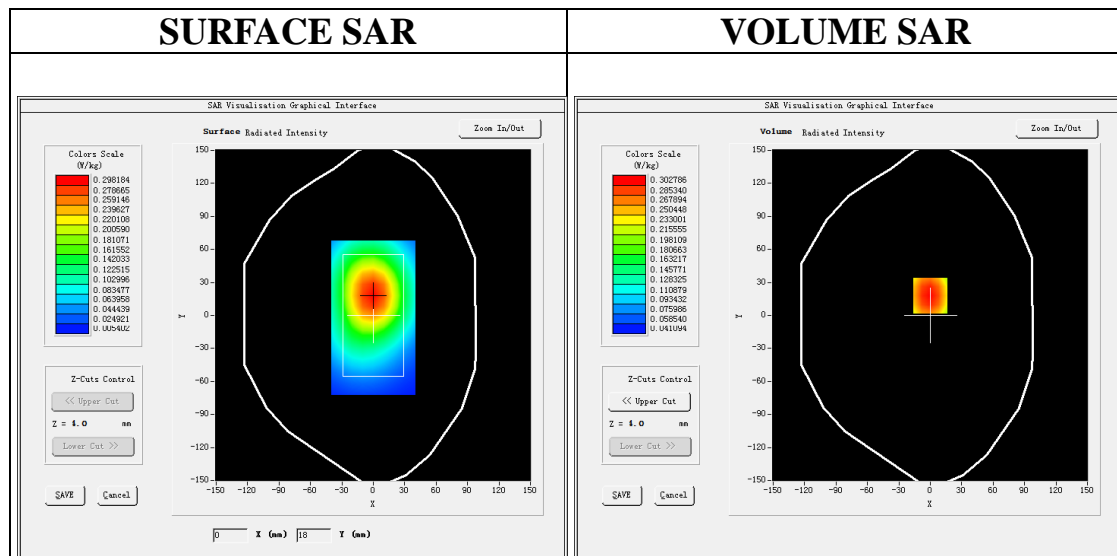
Communication System: LTE; Communication System Band: LTE Band 13; Duty Cycle:1:1; Conv.F=1.95;  
Frequency: 782 MHz; Medium parameters used:  $f = 750$  MHz;  $\sigma=0.89$  mho/m;  $\epsilon_r = 39.61$ ;  $\rho= 1000$  kg/m<sup>3</sup> ;  
Phantom section: Flat Section  
Ambient temperature (°C): 20.8, Liquid temperature (°C): 20.5

**SATIMO Configuration:**

Probe: SSE2; Calibrated: May 31, 2023; Serial No.: 2023-EPGO-414  
Sensor-Surface: 4mm (Mechanical Surface Detection)  
Phantom: SAM twin phantom  
Measurement SW: OpenSAR V4\_02\_32

**Configuration/ LTE Band 13 Mid-Back/Area Scan:** Measurement grid: dx=8mm, dy=8mm  
**Configuration/ LTE Band 13 Mid-Back/Zoom Scan:** Measurement grid: dx=8mm,dy=8mm, dz=5mm;

<b>Area Scan</b>	surf_sam_plan.txt, h= 5.00 mm
<b>Zoom Scan</b>	5x5x7,dx=8mm dy=8mm dz=5mm
<b>Phantom</b>	Validation plane
<b>Device Position</b>	Back
<b>Band</b>	LTE Band 13
<b>Channels</b>	Middle
<b>Signal</b>	OFDM (Crest factor: 1.0)

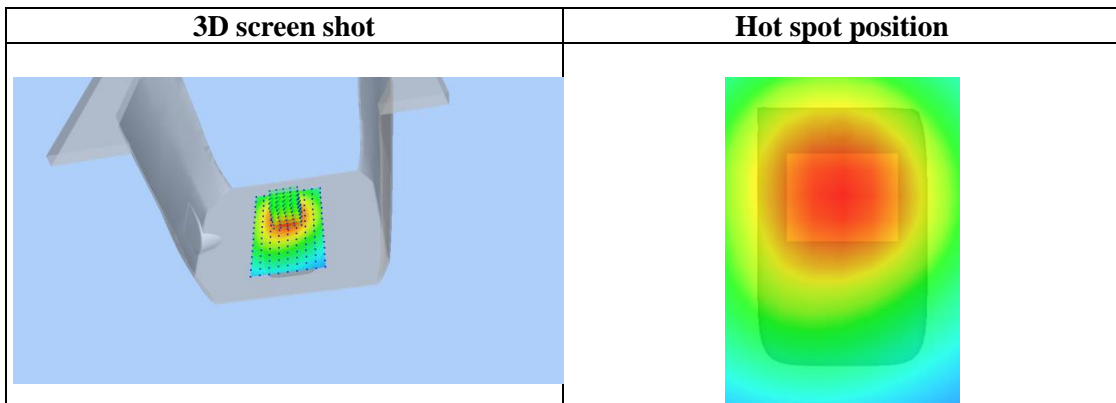
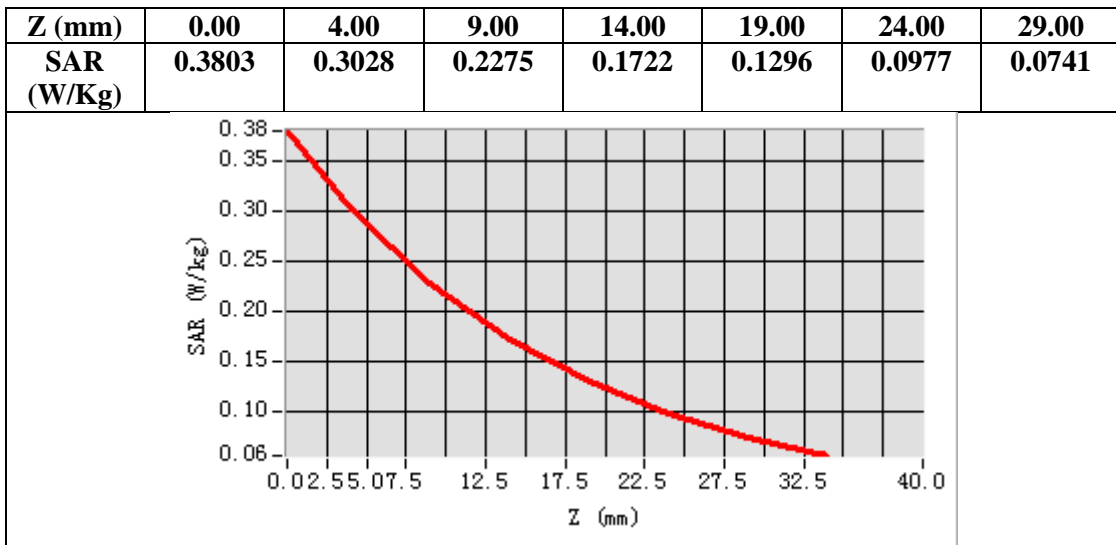


**Maximum location: X=0.00, Y=18.00**

**SAR Peak: 0.38 W/kg**

<b>SAR 10g (W/Kg)</b>	0.210263
<b>SAR 1g (W/Kg)</b>	0.292768

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**Test Laboratory: AGC Lab**  
**LTE Band 14 Mid-Back (1 RB#0)**  
**DUT: Body Worn Camera ; Type: K7**

**Date: Dec. 09, 2023**

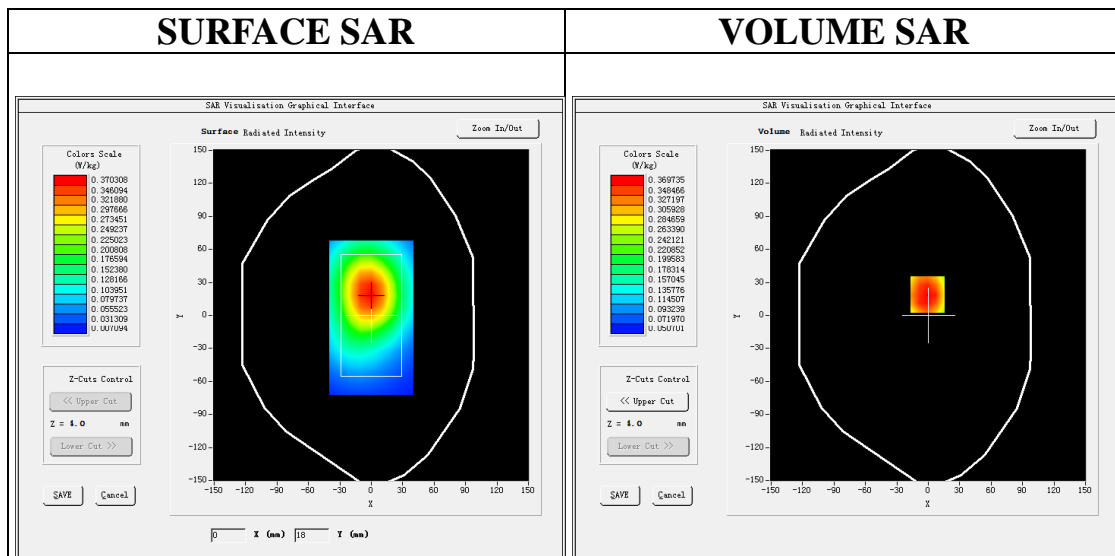
Communication System: LTE; Communication System Band: LTE Band 14; Duty Cycle:1:1; Conv.F=1.95;  
Frequency: 793 MHz; Medium parameters used:  $f = 750$  MHz;  $\sigma=0.91$  mho/m;  $\epsilon_r = 38.43$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;  
Phantom section: Flat Section  
Ambient temperature (°C): 20.8, Liquid temperature (°C): 20.5

**SATIMO Configuration:**

Probe: SSE2; Calibrated: May 31, 2023; Serial No.: 2023-EPGO-414  
Sensor-Surface: 4mm (Mechanical Surface Detection)  
Phantom: SAM twin phantom  
Measurement SW: OpenSAR V4\_02\_32

**Configuration/ LTE Band 14 Mid-Back/Area Scan:** Measurement grid: dx=8mm, dy=8mm  
**Configuration/ LTE Band 14 Mid-Back/Zoom Scan:** Measurement grid: dx=8mm,dy=8mm, dz=5mm;

<b>Area Scan</b>	surf_sam_plan.txt, h= 5.00 mm
<b>Zoom Scan</b>	5x5x7,dx=8mm dy=8mm dz=5mm
<b>Phantom</b>	Validation plane
<b>Device Position</b>	Back
<b>Band</b>	LTE Band 14
<b>Channels</b>	Middle
<b>Signal</b>	OFDM (Crest factor: 1.0)

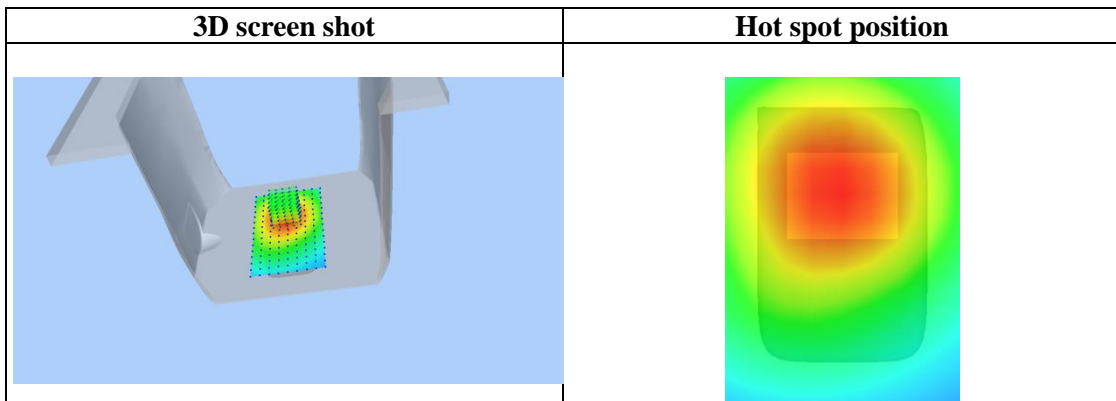
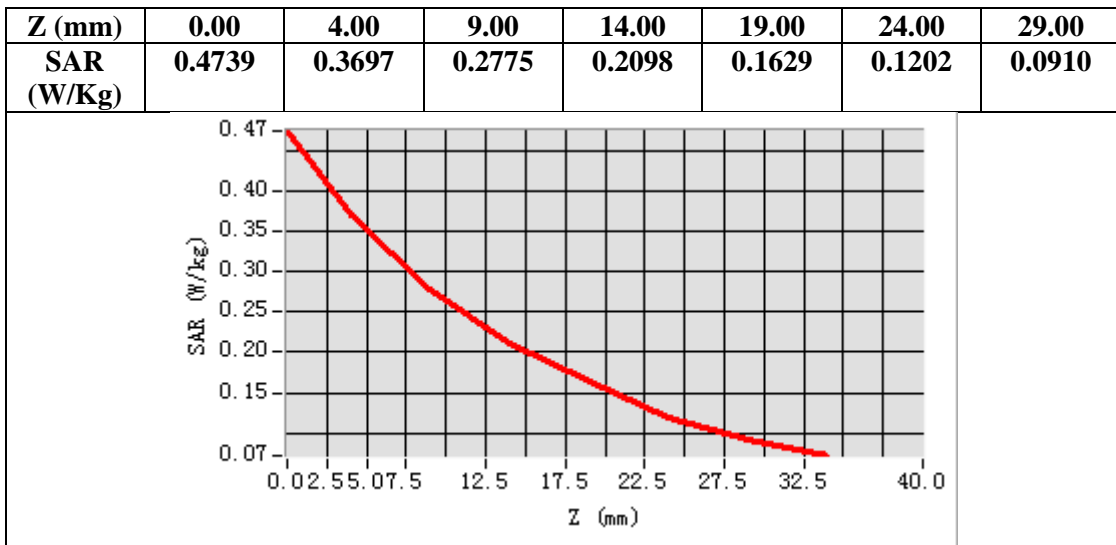


**Maximum location: X=-1.00, Y=19.00**

**SAR Peak: 0.49 W/kg**

<b>SAR 10g (W/Kg)</b>	0.256158
<b>SAR 1g (W/Kg)</b>	0.361272

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**Test Laboratory: AGC Lab**  
**LTE Band 66 Mid-Back (1 RB#0)**  
**DUT: Body Worn Camera ; Type: K7**

**Date: Dec. 20, 2023**

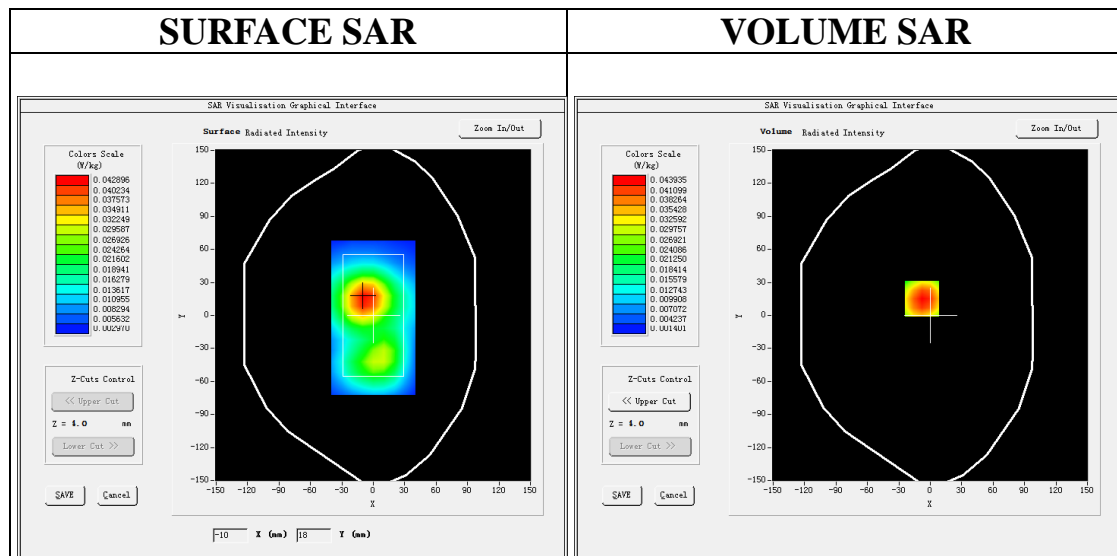
Communication System: LTE; Communication System Band: LTE Band 66; Duty Cycle:1:1; Conv.F=2.17;  
Frequency: 1755 MHz; Medium parameters used:  $f = 1750$  MHz;  $\sigma=1.44$  mho/m;  $\epsilon_r=38.16$ ;  $\rho= 1000$  kg/m<sup>3</sup> ;  
Phantom section: Flat Section  
Ambient temperature (°C): 21.7, Liquid temperature (°C): 21.2

**SATIMO Configuration:**

Probe: SSE2; Calibrated: May 31, 2023; Serial No.: 2023-EPGO-414  
Sensor-Surface: 4mm (Mechanical Surface Detection)  
Phantom: SAM twin phantom  
Measurement SW: OpenSAR V4\_02\_32

**Configuration/ LTE Band 66 Mid-Back/Area Scan:** Measurement grid: dx=8mm, dy=8mm  
**Configuration/ LTE Band 66 Mid-Back/Zoom Scan:** Measurement grid: dx=8mm,dy=8mm, dz=5m;

<b>Area Scan</b>	surf_sam_plan.txt, h= 5.00 mm
<b>Zoom Scan</b>	5x5x7,dx=8mm dy=8mm dz=5mm
<b>Phantom</b>	Validation plane
<b>Device Position</b>	Back
<b>Band</b>	LTE Band 66
<b>Channels</b>	Middle
<b>Signal</b>	OFDM (Crest factor: 1.0)

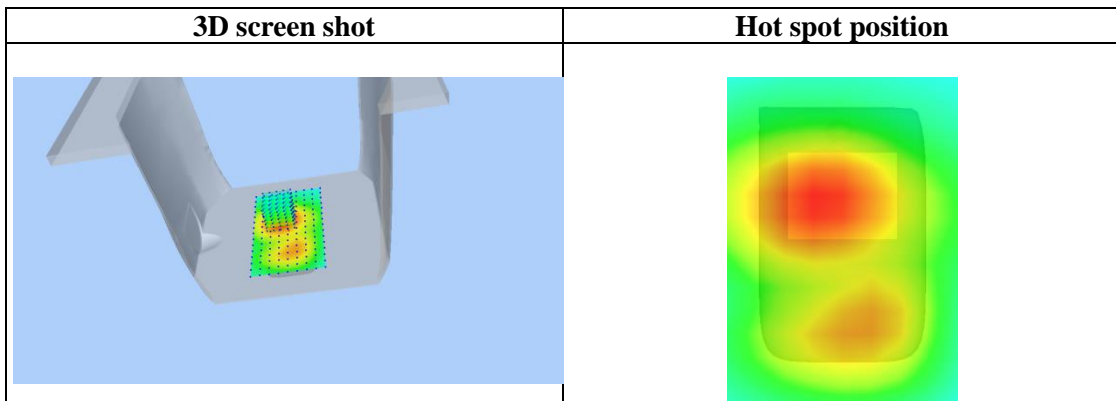
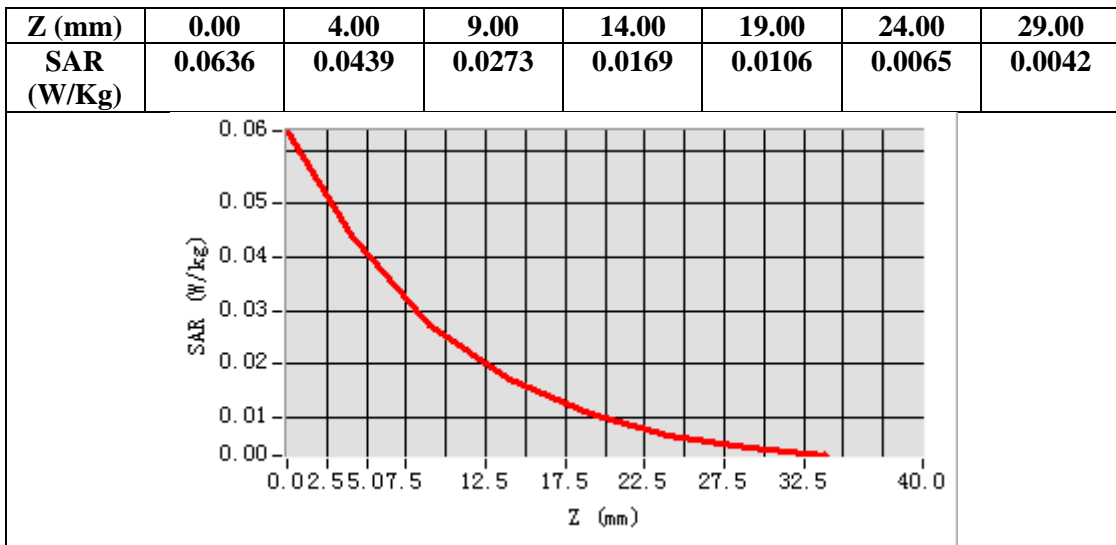


**Maximum location: X=-8.00, Y=15.00**

**SAR Peak: 0.06 W/kg**

<b>SAR 10g (W/Kg)</b>	0.025390
<b>SAR 1g (W/Kg)</b>	0.042294

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**Test Laboratory: AGC Lab**  
**LTE Band 71 Mid-Back (1 RB#0)**  
**DUT: Body Worn Camera ; Type: K7**

**Date: Dec. 09, 2023**

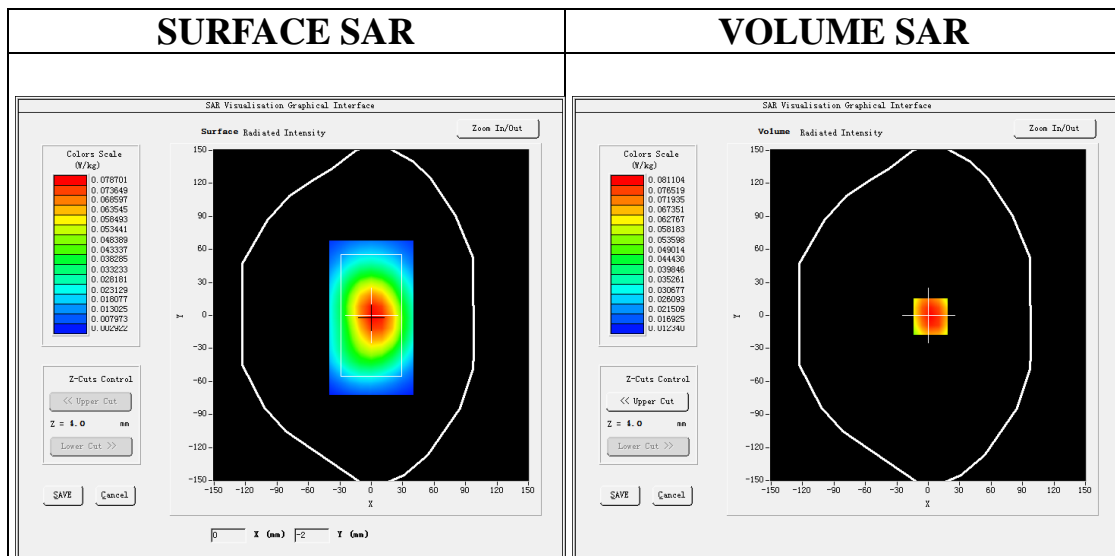
Communication System: LTE; Communication System Band: LTE Band 71; Duty Cycle:1:1; Conv.F=1.95;  
Frequency: 683 MHz; Medium parameters used:  $f = 750$  MHz;  $\sigma=0.81$  mho/m;  $\epsilon_r = 43.66$ ;  $\rho= 1000$  kg/m<sup>3</sup> ;  
Phantom section: Flat Section  
Ambient temperature (°C): 20.8, Liquid temperature (°C): 20.5

**SATIMO Configuration:**

Probe: SSE2; Calibrated: May 31, 2023; Serial No.: 2023-EPGO-414  
Sensor-Surface: 4mm (Mechanical Surface Detection)  
Phantom: SAM twin phantom  
Measurement SW: OpenSAR V4\_02\_32

**Configuration/ LTE Band 71 Mid-Back/Area Scan:** Measurement grid: dx=8mm, dy=8mm  
**Configuration/ LTE Band 71 Mid-Back/Zoom Scan:** Measurement grid: dx=8mm,dy=8mm, dz=5m;

<b>Area Scan</b>	surf_sam_plan.txt, h= 5.00 mm
<b>Zoom Scan</b>	5x5x7,dx=8mm dy=8mm dz=5mm
<b>Phantom</b>	Validation plane
<b>Device Position</b>	Back
<b>Band</b>	LTE Band 71
<b>Channels</b>	Middle
<b>Signal</b>	OFDM (Crest factor: 1.0)

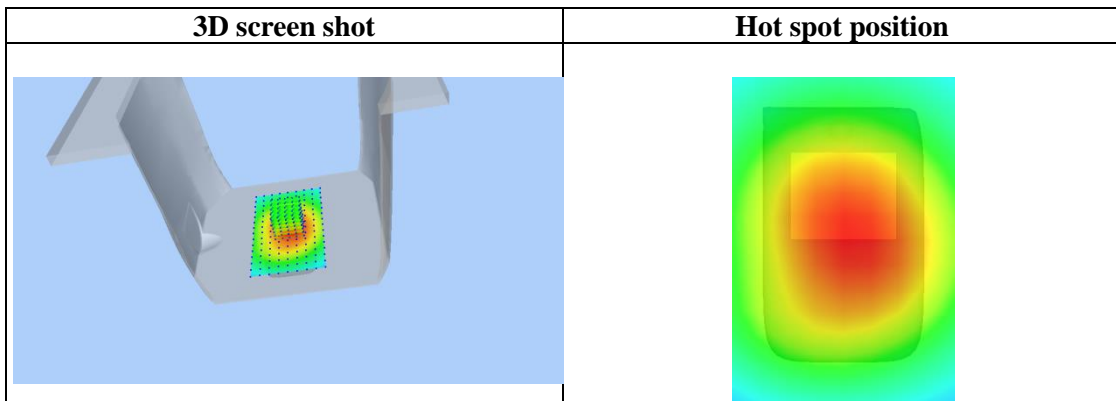
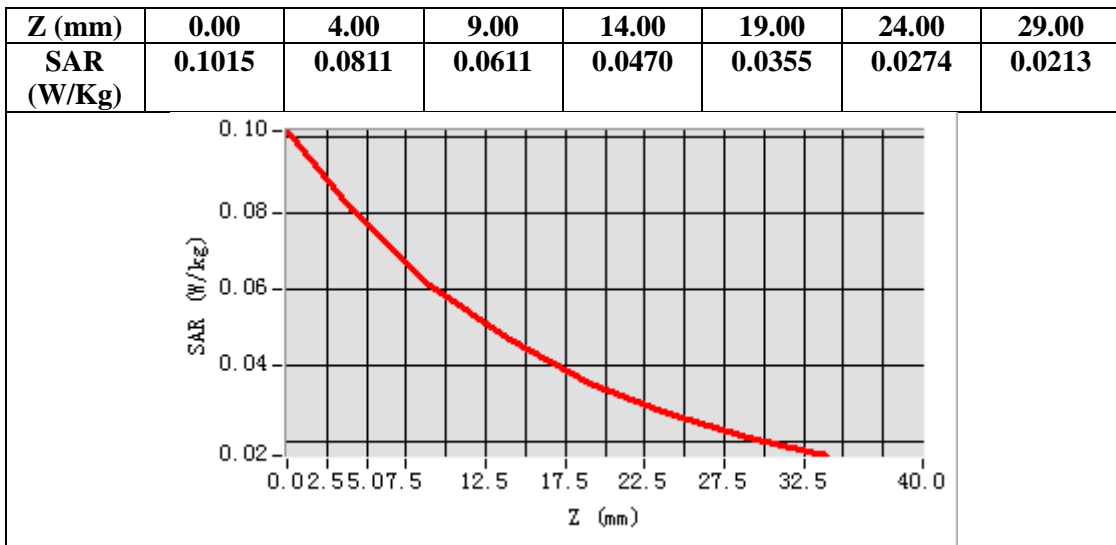


**Maximum location: X=2.00, Y=-1.00**

**SAR Peak: 0.10 W/kg**

<b>SAR 10g (W/Kg)</b>	0.058292
<b>SAR 1g (W/Kg)</b>	0.081132

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**WIFI MODE**

Test Laboratory: AGC Lab  
802.11b Mid- Back

Date: Dec. 22, 2023

DUT: Body Worn Camera ; Type: K7

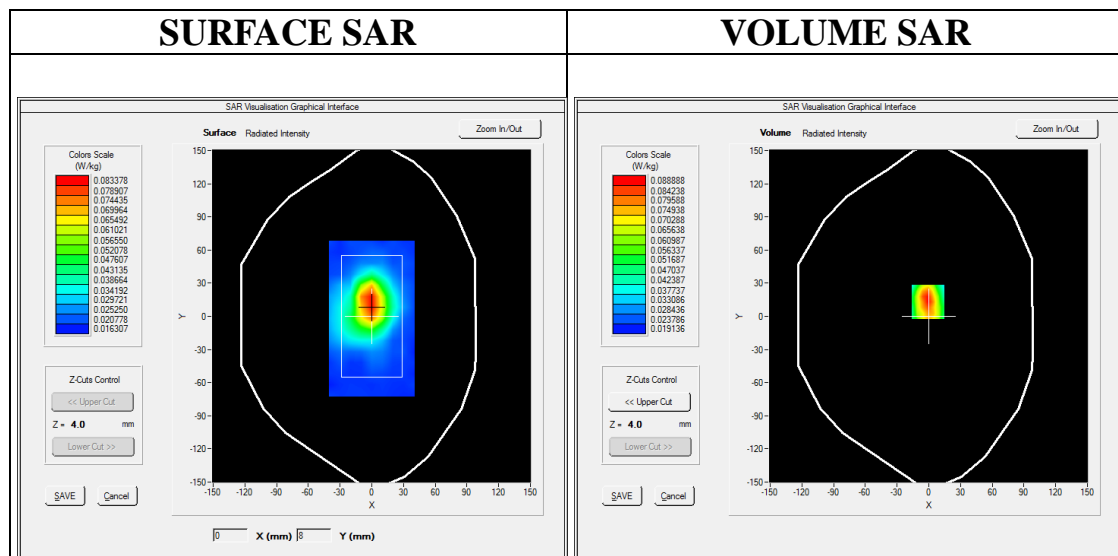
Communication System: Wi-Fi; Communication System Band: 802.11b; Duty Cycle: 1:1; Conv.F=2.29;  
Frequency: 2437 MHz; Medium parameters used:  $f = 2450$  MHz;  $\sigma = 1.79$  mho/m;  $\epsilon_r = 40.36$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;  
Phantom section: Flat Section  
Ambient temperature (°C):21.1, Liquid temperature (°C): 20.8

SATIMO Configuration:

Probe: SSE2; Calibrated: May 31, 2023; Serial No.: 2023-EPGO-414  
Sensor-Surface: 4mm (Mechanical Surface Detection)  
Phantom: SAM twin phantom  
Measurement SW: OpenSAR V4\_02\_32

Configuration/802.11b Mid- Back /Area Scan: Measurement grid: dx=8mm, dy=8mm  
Configuration/802.11b Mid- Back /Zoom Scan: Measurement grid: dx=5mm,dy=5mm, dz=5mm;

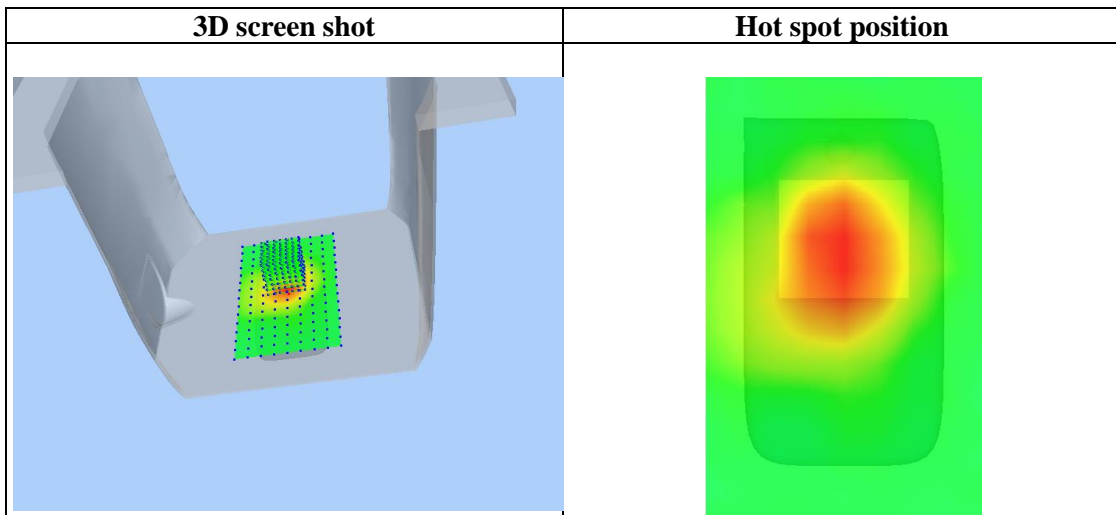
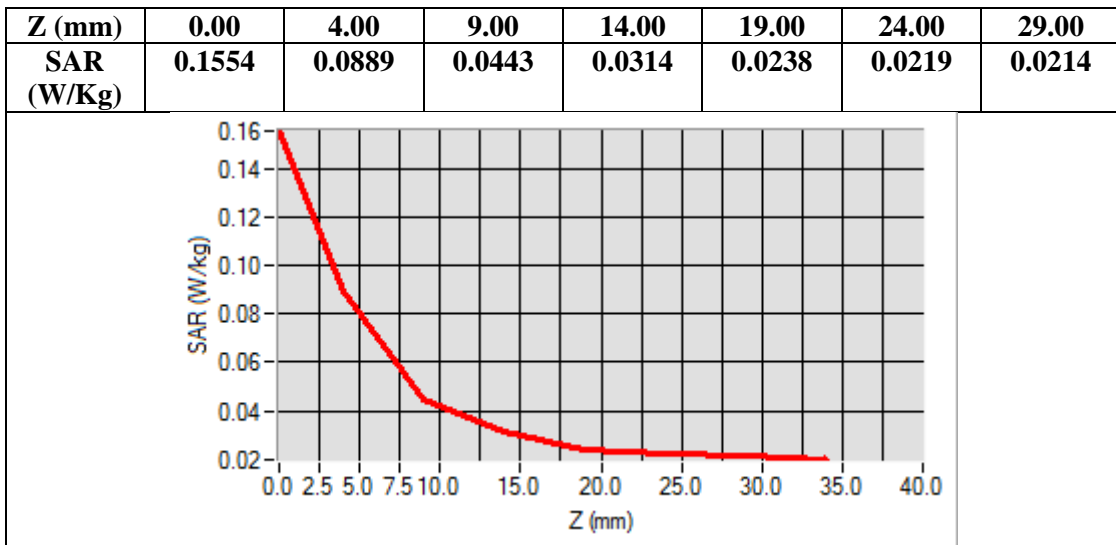
<b>Area Scan</b>	surf_sam_plan.txt, h= 5.00 mm
<b>ZoomScan</b>	7x7x7,dx=5mm dy=5mm dz=5mm
<b>Phantom</b>	Validation plane
<b>Device Position</b>	Back
<b>Band</b>	2450MHz
<b>Channels</b>	Middle
<b>Signal</b>	Crest factor: 1.0



**Maximum location: X=-1.00, Y=13.00**  
**SAR Peak: 0.15 W/kg**

<b>SAR 10g (W/Kg)</b>	0.048061
<b>SAR 1g (W/Kg)</b>	0.084753

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**5.2GHz 802.11a**

**Test Laboratory: AGC Lab**

**802.11a CH40- Body-Back**

**DUT: Body Worn Camera ; Type: K7**

**Date: Dec. 13, 2023**

Communication System: Wi-Fi; Communication System Band: 802.11a; Duty Cycle: 1:1; Conv.F=2.35;  
Frequency: 5200MHz; Medium parameters used:  $f = 5200$  MHz;  $\sigma = 4.50$  mho/m;  $\epsilon_r = 36.21$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;  
Phantom section: Flat Section  
Ambient temperature (°C): 20.1, Liquid temperature (°C): 19.8

**SATIMO Configuration:**

Probe: SSE2; Calibrated: May 31, 2023; Serial No.: 2023-EPGO-414

Sensor-Surface: 4mm (Mechanical Surface Detection)

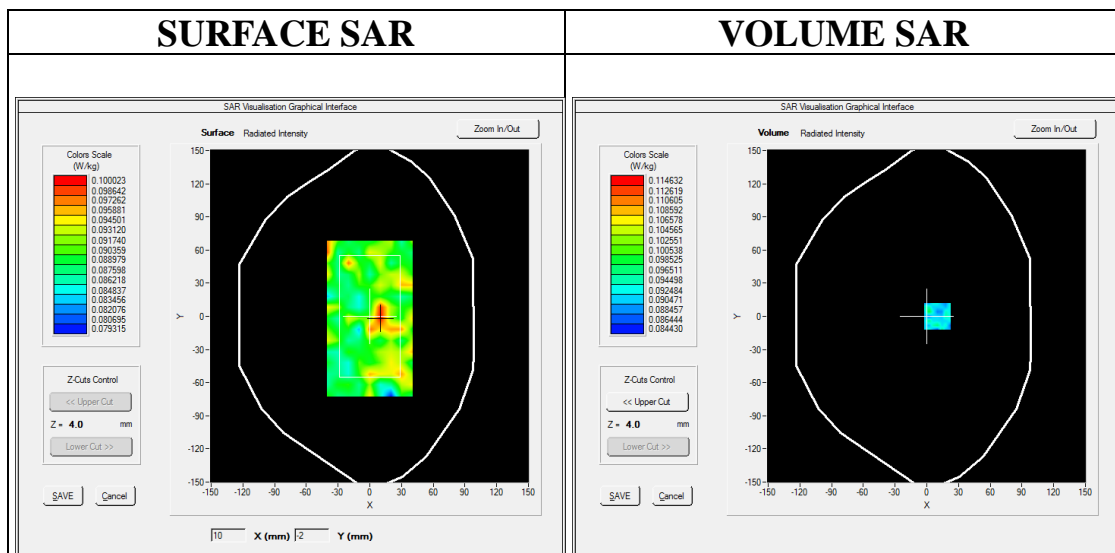
Phantom: SAM twin phantom

Measurement SW: OpenSAR V4\_02\_32

**Configuration/802.11a CH40- Body-Back/Area Scan:** Measurement grid: dx=8mm, dy=8mm

**Configuration/802.11a CH40- Body-Back/Zoom Scan:** Measurement grid: dx=4mm,dy=4mm, dz=2mm

<b>Area Scan</b>	sam_direct_droit2_surf8mm.txt
<b>ZoomScan</b>	7x7x12 dx=4mm dy=4mm dz=2mm
<b>Phantom</b>	Validation plane
<b>Device Position</b>	Body Back
<b>Band</b>	5200MHz
<b>Channels</b>	CH40
<b>Signal</b>	Crest factor: 1.0



**Maximum location: X=10.00, Y=0.00**  
**SAR Peak: 0.13 W/kg**

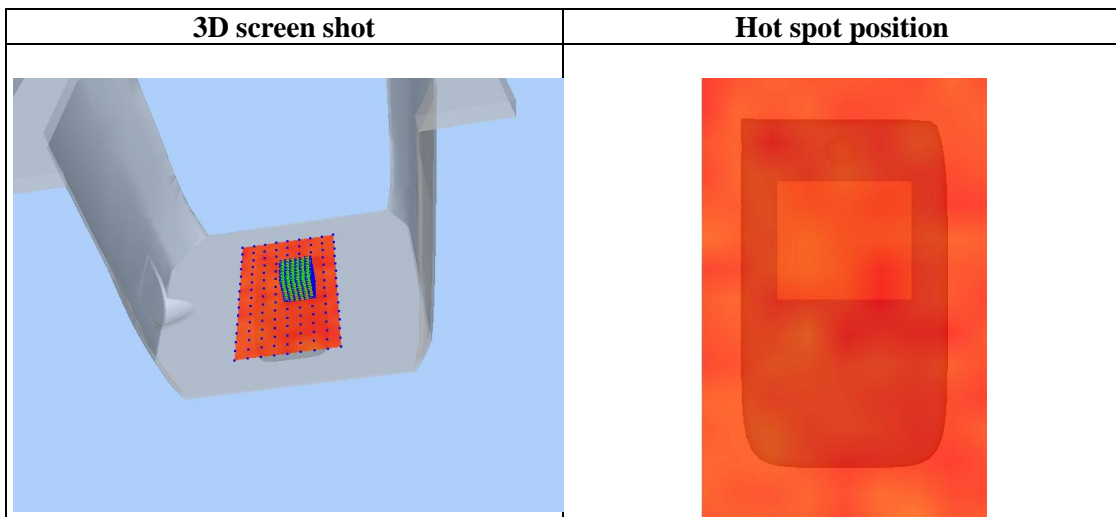
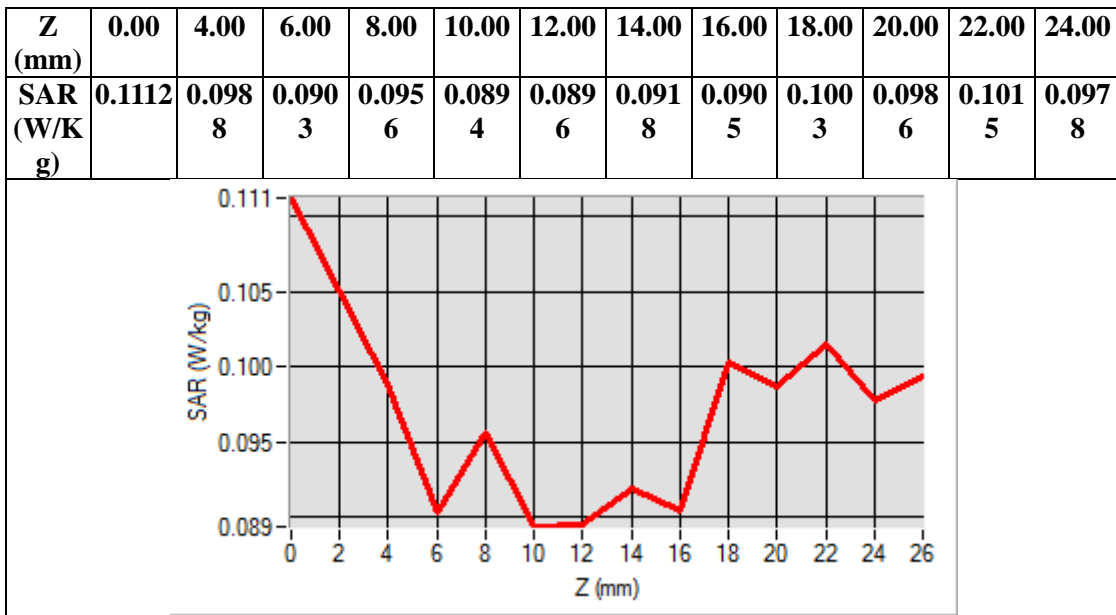
<b>SAR 10g (W/Kg)</b>	0.092873
<b>SAR 1g (W/Kg)</b>	0.092096

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**5.3GHz 802.11a**

**Test Laboratory: AGC Lab**

**802.11a CH60- Body-Back**

**DUT: Body Worn Camera ; Type: K7**

**Date: Dec. 14, 2023**

Communication System: Wi-Fi; Communication System Band: 802.11a; Duty Cycle: 1:1; Conv.F=1.35;  
Frequency: 5300MHz; Medium parameters used:  $f = 5300 \text{ MHz}$ ;  $\sigma = 4.91 \text{ mho/m}$ ;  $\epsilon_r = 36.59$ ;  $\rho = 1000 \text{ kg/m}^3$  ;  
Phantom section: Flat Section  
Ambient temperature ( $^{\circ}\text{C}$ ): 21.3, Liquid temperature ( $^{\circ}\text{C}$ ): 21.0

**SATIMO Configuration:**

Probe: SSE2; Calibrated: May 31, 2023; Serial No.: 2023-EPGO-414

Sensor-Surface: 4mm (Mechanical Surface Detection)

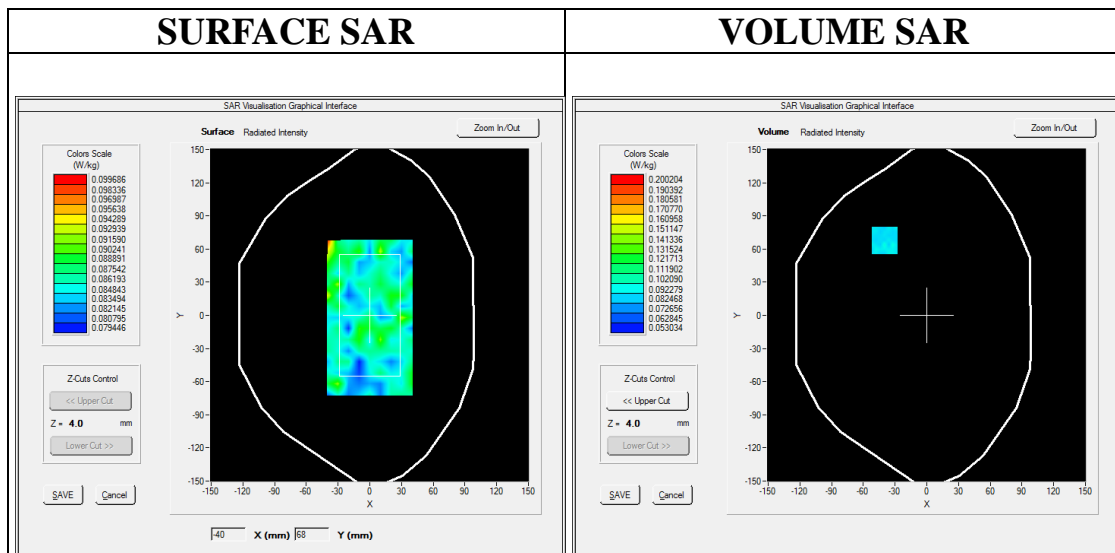
Phantom: SAM twin phantom

Measurement SW: OpenSAR V4\_02\_32

**Configuration/802.11a CH60- Body-Back /Area Scan:** Measurement grid:  $dx=8\text{mm}$ ,  $dy=8\text{mm}$

**Configuration/802.11a CH60- Body-Back /Zoom Scan:** Measurement grid:  $dx=4\text{mm}$ ,  $dy=4\text{mm}$ ,  $dz=2\text{mm}$

<b>Area Scan</b>	sam_direct_droit2_surf8mm.txt
<b>ZoomScan</b>	7x7x12 dx=4mm dy=4mm dz=2mm
<b>Phantom</b>	Validation plane
<b>Device Position</b>	Body Back
<b>Band</b>	5300MHz
<b>Channels</b>	CH60
<b>Signal</b>	Crest factor: 1.0



**Maximum location: X=-40.00, Y=68.00**

**SAR Peak: 0.13 W/kg**

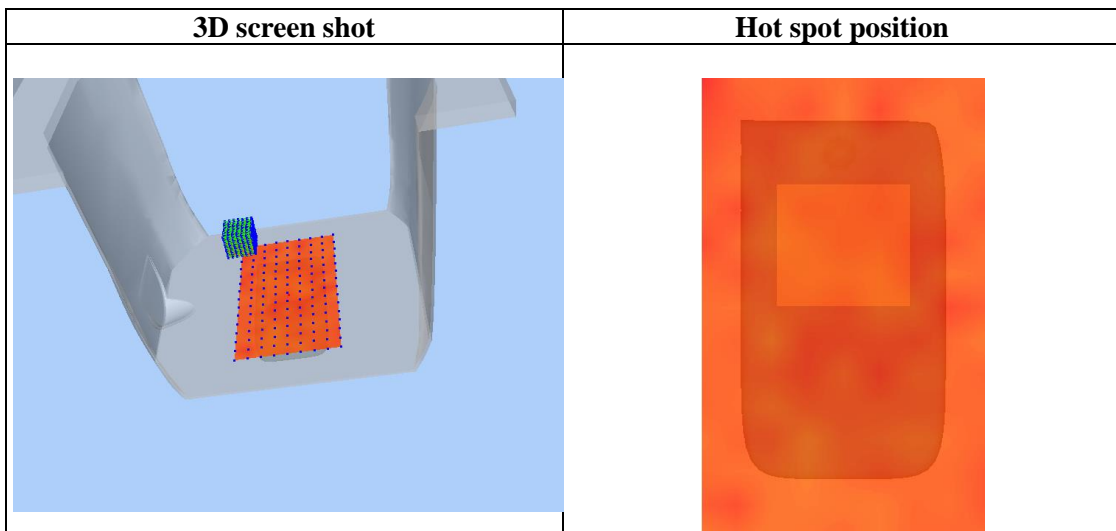
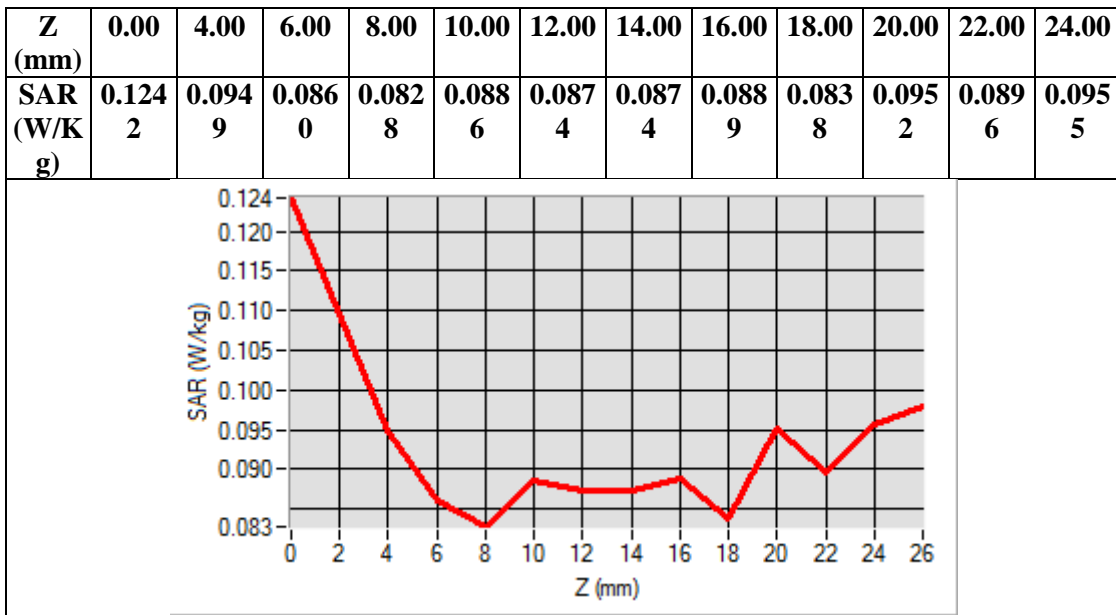
<b>SAR 10g (W/Kg)</b>	0.088460
<b>SAR 1g (W/Kg)</b>	0.092328

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**5.6GHz 802.11a**

Test Laboratory: AGC Lab

802.11a CH120- Body-Back

DUT: Body Worn Camera ; Type: K7

Date: Dec. 15, 2023

Communication System: Wi-Fi; Communication System Band: 802.11a; Duty Cycle: 1:1; Conv.F=2.51;  
Frequency: 5600MHz; Medium parameters used:  $f = 5600$  MHz;  $\sigma = 5.14$  mho/m;  $\epsilon_r = 36.55$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;  
Phantom section: Flat Section  
Ambient temperature (°C): 21.4, Liquid temperature (°C): 21.0

SATIMO Configuration:

Probe: SSE2; Calibrated: May 31, 2023; Serial No.: 2023-EPGO-414

Sensor-Surface: 4mm (Mechanical Surface Detection)

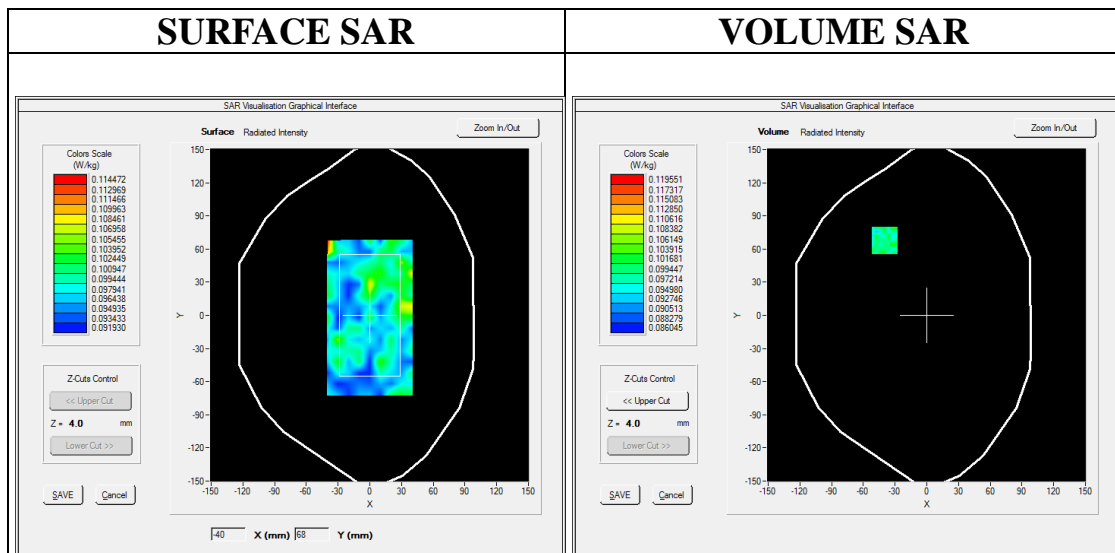
Phantom: SAM twin phantom

Measurement SW: OpenSAR V4\_02\_32

**Configuration/802.11a CH120- Body-Back /Area Scan:** Measurement grid: dx=8mm, dy=8mm

**Configuration/802.11a CH120- Body-Back /Zoom Scan:** Measurement grid: dx=4mm,dy=4mm, dz=2mm

<b>Area Scan</b>	sam_direct_droit2_surf8mm.txt
<b>ZoomScan</b>	7x7x12 dx=4mm dy=4mm dz=2mm
<b>Phantom</b>	Validation plane
<b>Device Position</b>	Body Back
<b>Band</b>	5600MHz
<b>Channels</b>	CH120
<b>Signal</b>	Crest factor: 1.0



**Maximum location: X=-40.00, Y=68.00**

**SAR Peak: 0.15 W/kg**

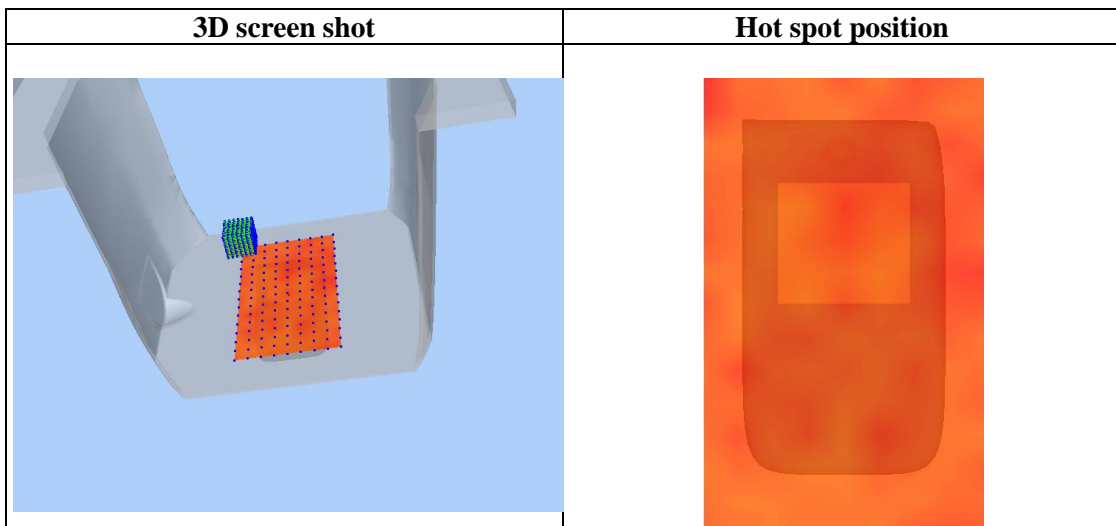
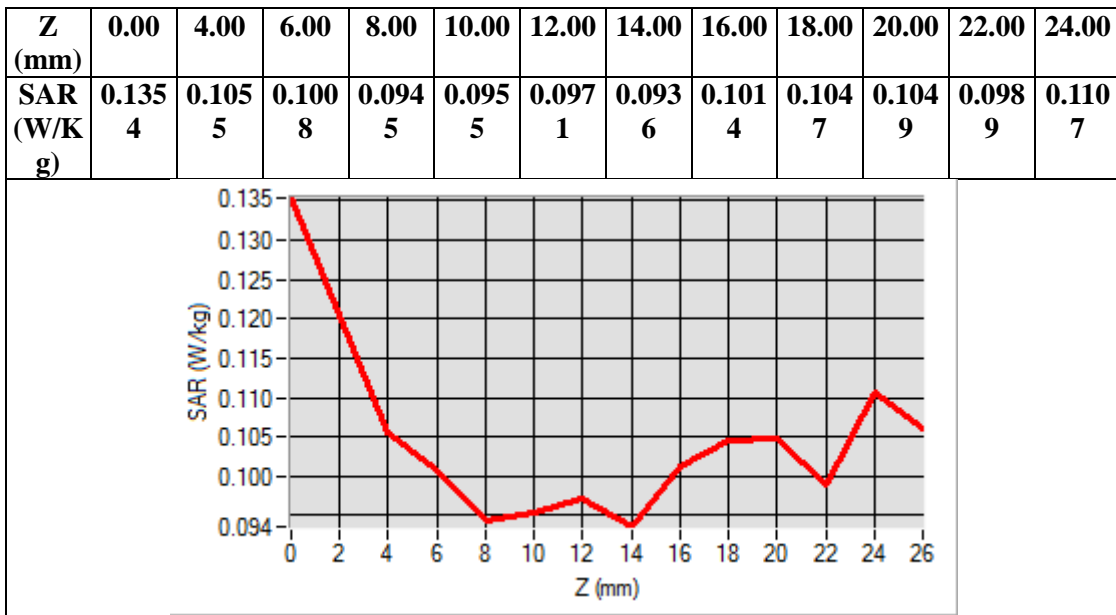
<b>SAR 10g (W/Kg)</b>	0.099385
<b>SAR 1g (W/Kg)</b>	0.100807

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**5.8GHz 802.11a**

Test Laboratory: AGC Lab

802.11a CH157- Body-Back

DUT: Body Worn Camera ; Type: K7

Date: Dec. 16, 2023

Communication System: Wi-Fi; Communication System Band: 802.11a; Duty Cycle: 1:1; Conv.F=1.41;  
Frequency: 5785MHz; Medium parameters used:  $f = 5800$  MHz;  $\sigma = 5.22$  mho/m;  $\epsilon_r = 36.46$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;  
Phantom section: Flat Section  
Ambient temperature (°C): 21.7, Liquid temperature (°C): 21.3

SATIMO Configuration:

Probe: SSE2; Calibrated: May 31, 2023; Serial No.: 2023-EPGO-414

Sensor-Surface: 4mm (Mechanical Surface Detection)

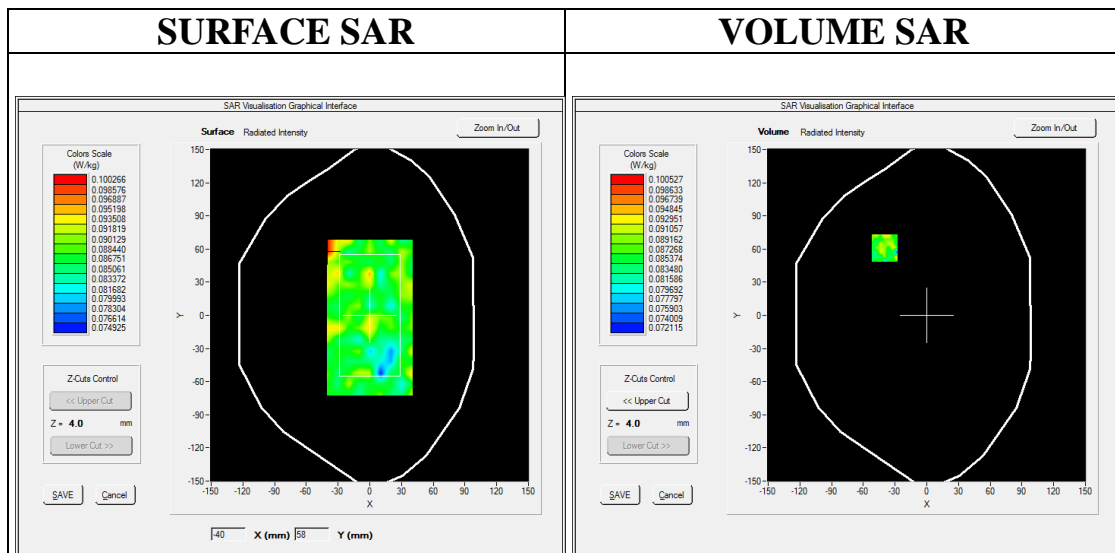
Phantom: SAM twin phantom

Measurement SW: OpenSAR V4\_02\_32

**Configuration/ 802.11a CH157- Body-Back /Area Scan:** Measurement grid: dx=8mm, dy=8mm

**Configuration/ 802.11a CH157- Body-Back /Zoom Scan:** Measurement grid: dx=4mm,dy=4mm, dz=2mm

<b>Area Scan</b>	sam_direct_droit2_surf8mm.txt
<b>ZoomScan</b>	7x7x12 dx=4mm dy=4mm dz=2mm
<b>Phantom</b>	Validation plane
<b>Device Position</b>	Body Back
<b>Band</b>	5800MHz
<b>Channels</b>	Middle
<b>Signal</b>	Crest factor: 1.0



**Maximum location: X=-40.00, Y=61.00**

**SAR Peak: 0.13 W/kg**

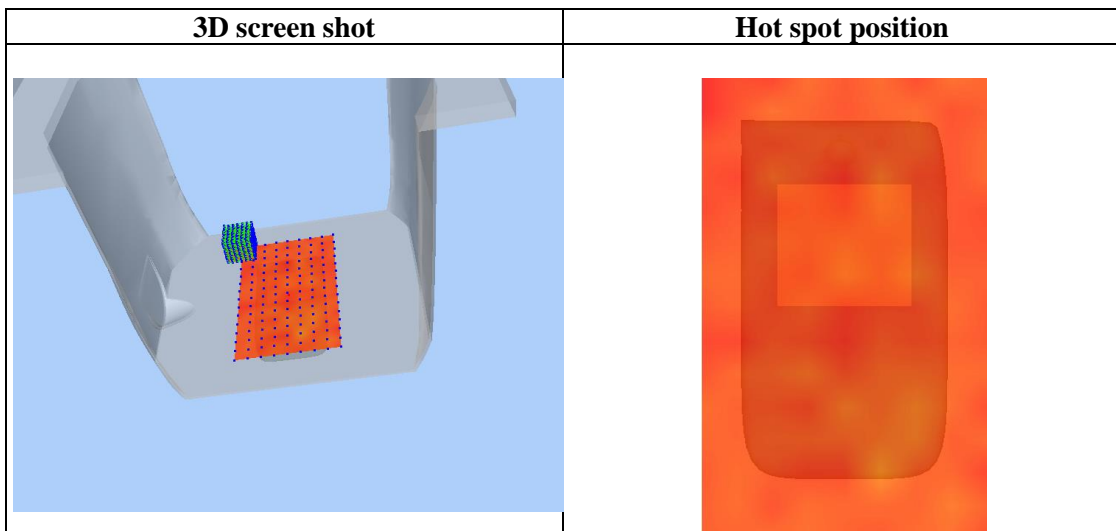
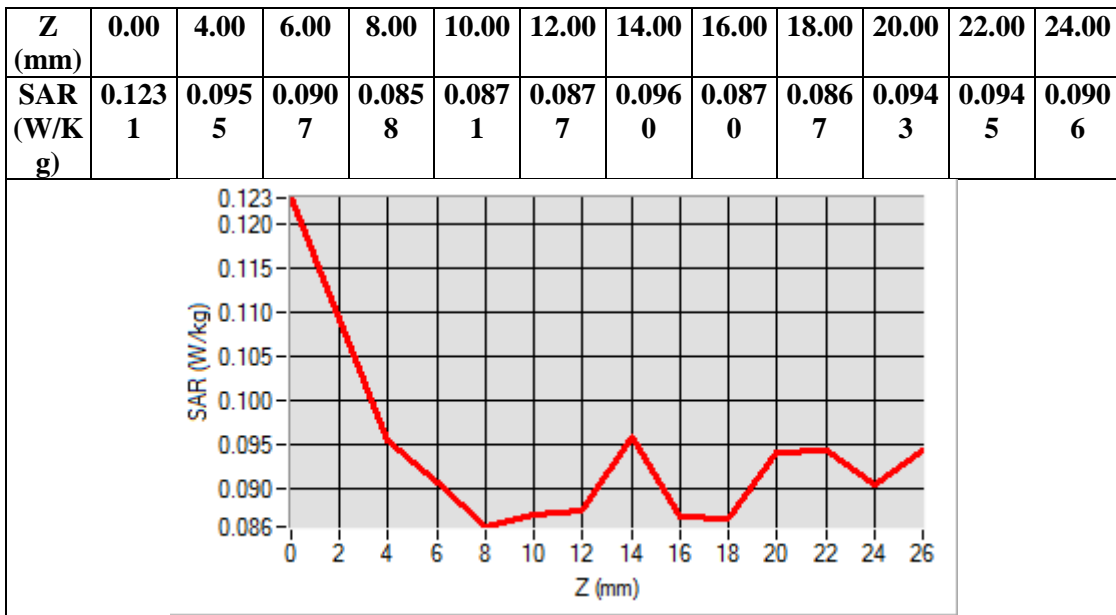
<b>SAR 10g (W/Kg)</b>	0.089001
<b>SAR 1g (W/Kg)</b>	0.090528

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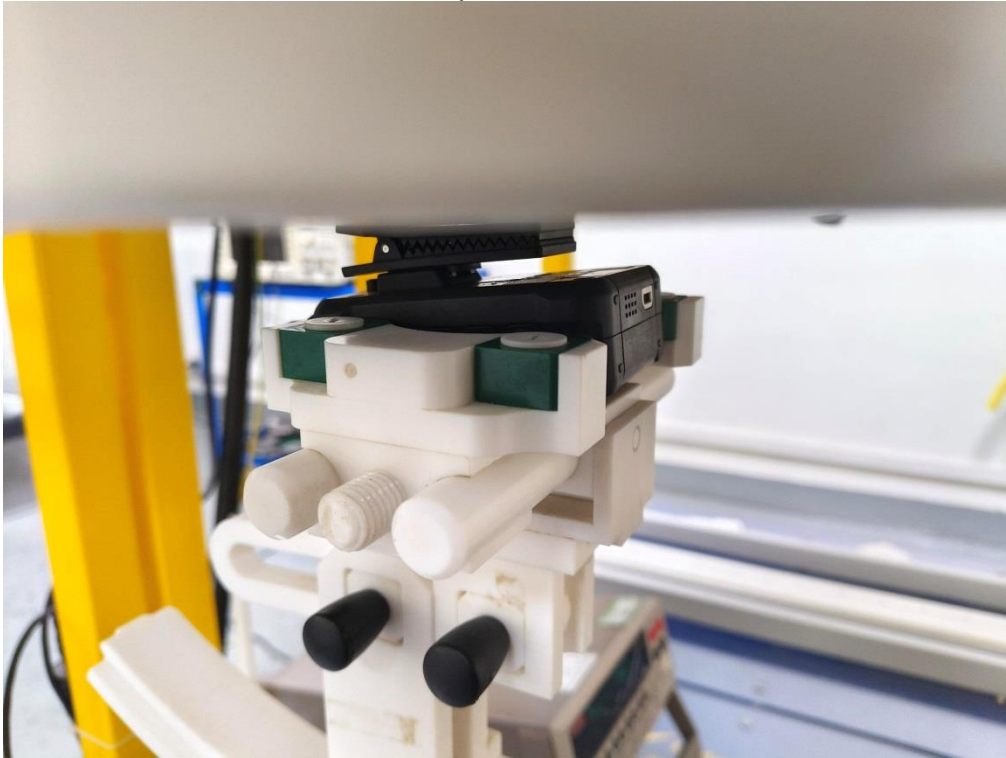
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**APPENDIX C. TEST SETUP PHOTOGRAPHS**

Body Back 0mm



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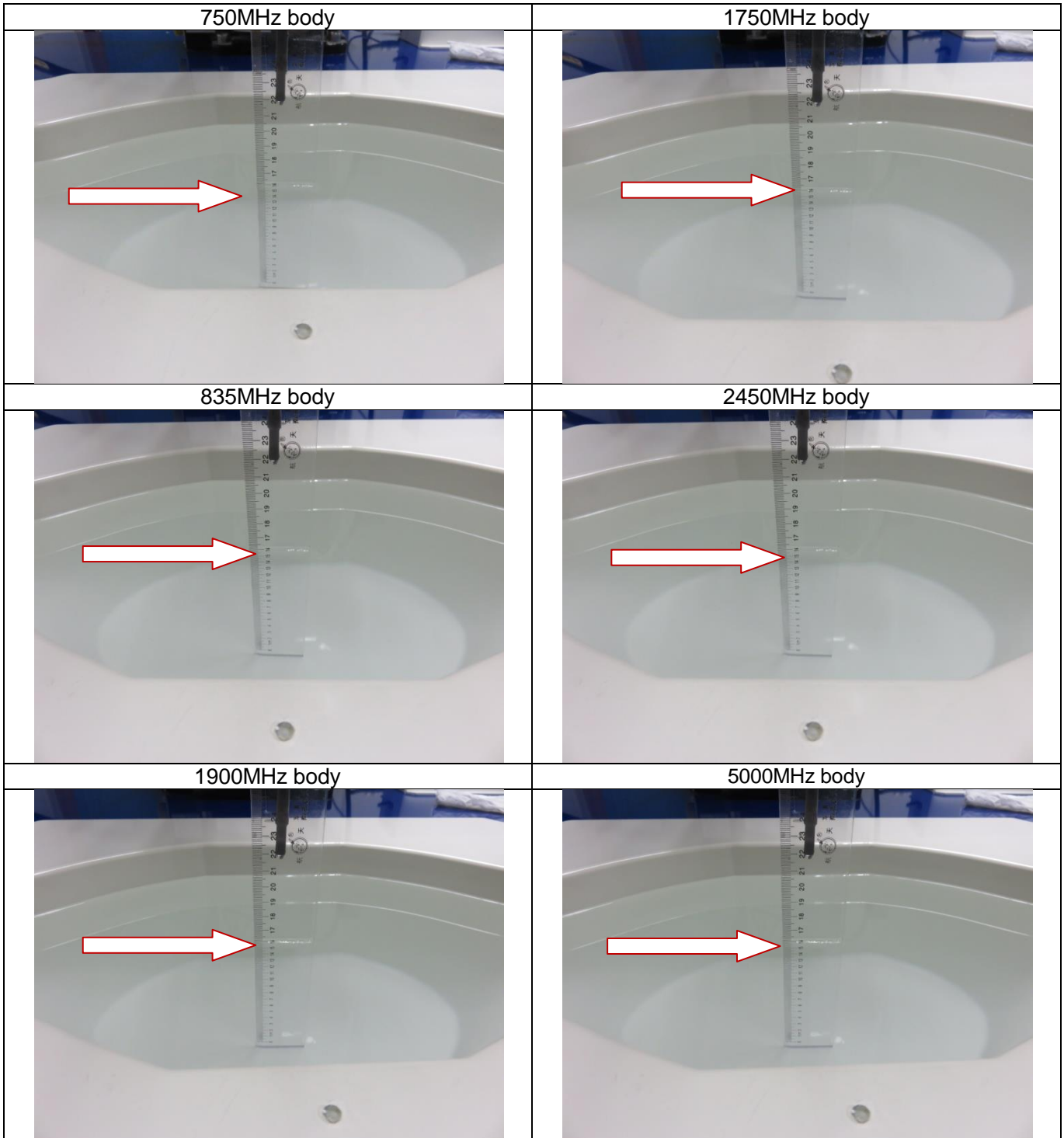
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### DEPTH OF THE LIQUID IN THE PHANTOM—ZOOM IN

Note : The position used in the measurement were according to IEEE 1528-2013



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## APPENDIX D. CALIBRATION DATA

Refer to Attached files.

**----END OF REPORT----**

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5. Samples submitted for testing are accepted on the understanding that the Report issued cannot form the basis of, or be the instrument for, any legal action against the Company.
6. The Company will not be liable for or accept responsibility for any loss or damage however arising from the use of information contained in any of its Reports or in any communication whatsoever about its said tests or investigations.
7. Clients wishing to use the Report in court proceedings or arbitration shall inform the Company to that effect prior to submitting the sample for testing.
8. The Company is not responsible for recalling the electronic version of the original report when any revision is made to them. The Client assumes the responsibility to providing the revised version to any interested party who uses them.
9. Subject to the variable length of retention time for test data and report stored hereinto as otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of the test report for a period of six years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after retention period. Under no circumstances shall we be liable for damage of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.

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