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# SAR Test Report

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Report No.: AGC14075240907FH01

**FCC ID** : 2AWD8-CREAGLE

**PRODUCT DESIGNATION** : Car Diagnostic Tool

**BRAND NAME** : **iCarsoft**

**MODEL NAME** : CR Eagle

**APPLICANT** : Icarsoft Technology Inc.

**DATE OF ISSUE** : Oct. 18, 2024

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

**REPORT VERSION** : V1.1

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**Report Revise Record**

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Sep. 29, 2024	Invalid	Initial Release
V1.1	1 <sup>st</sup>	Oct. 18, 2024	Valid	Added Brand name and BT Data, modified battery information, antenna gain and Wifi 5G power.

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Test Report	
Applicant Name	Icarsoft Technology Inc.
Applicant Address	1629 K St. Suite 300 N.W.Washington D.C., 20006 United States.
Manufacturer Name	Icarsoft Technology Inc.
Manufacturer Address	1629 K St. Suite 300 N.W.Washington D.C., 20006 United States.
Factory Name	Dongguan Yongdong Electronic Technology Co., Ltd
Factory Address	No. 10,4th Street, Zhangyang Fuzhu Industrial Zone, Zhangmutou town, Dongguan City
Product Designation	Car Diagnostic Tool
Brand Name	<b>iCarsoft</b>
Model Name	CR Eagle
Series Models	N/A
Declaration of Difference	N/A
EUT Voltage	DC 3.8V 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	Sep. 05, 2024
Test Date	Sep. 19, 2024 to Sep. 20, 2024
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.

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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 (with 0cm separation)	
WIFI 2.4G	0.762	1.6
WIFI 5.2G	0.623	
WIFI 5.3G	0.574	
WIFI 5.8G	0.838	
Bluetooth	0.107	
SAR Test Result	PASS	

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 865664 D01 SAR Measurement 100MHz to 6GHz v01r04
- KDB 616217 D04 SAR for laptop and tablets v01r02
- KDB 248227 D01 802 11 Wi-Fi SAR v02r02

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## 2. GENERAL INFORMATION

### 2.1. EUT Description

General Information	
Product Designation	Car Diagnostic Tool
Test Model	CR Eagle
Sample ID	240927054
Hardware Version	F219 U1.1
Software Version	iMSDiag DiagLib APP:V10.14 iMSDiag System APP:V10.19 System Version:V1.26
Device Category	Portable
RF Exposure Environment	Uncontrolled Environment General Population
Antenna Type	FPC
Bluetooth	
Bluetooth Version	V5.0
Operation Frequency	2402~2480MHz
Type of modulation	<input checked="" type="checkbox"/> GFSK <input checked="" type="checkbox"/> $\pi/4$ -DQPSK <input checked="" type="checkbox"/> 8DPSK
Max. Average Power	Ant A: 4.33dBm
Antenna gain	Ant A: 5.62Bi
2.4GHz WIFI	
WIFI Specification	<input checked="" type="checkbox"/> 802.11b <input checked="" type="checkbox"/> 802.11g <input checked="" type="checkbox"/> 802.11n(20) <input checked="" type="checkbox"/> 802.11n(40)
Operation Frequency	2412~2462MHz
Max. Average Power	Ant_A: 14.67dBm; Ant_B: 14.13dBm
Antenna gain	Ant_A: 5.62dBi; Ant_B: 5.62dBi
5 GHz WIFI	
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: 5150MHz~5250MHz; U-NII-2A: 5250MHz~5350MHz; U-NII-3: 5745MHz~5825MHz
Max. Average Power	Ant A: U-NII-1: 12.53dBm; U-NII-2A:12.51dBm; U-NII-3: 12.04dBm
Antenna gain	Ant A: U-NII-1: 4.02dBm; U-NII-2A:3.26dBm; U-NII-3: 3.08dBm
Accessories	
Battery	Brand name: N/A; Voltage : DC 3.8V; Capacitance: 10000mAh;

Note: 1.The sample used for testing is end product.

2. 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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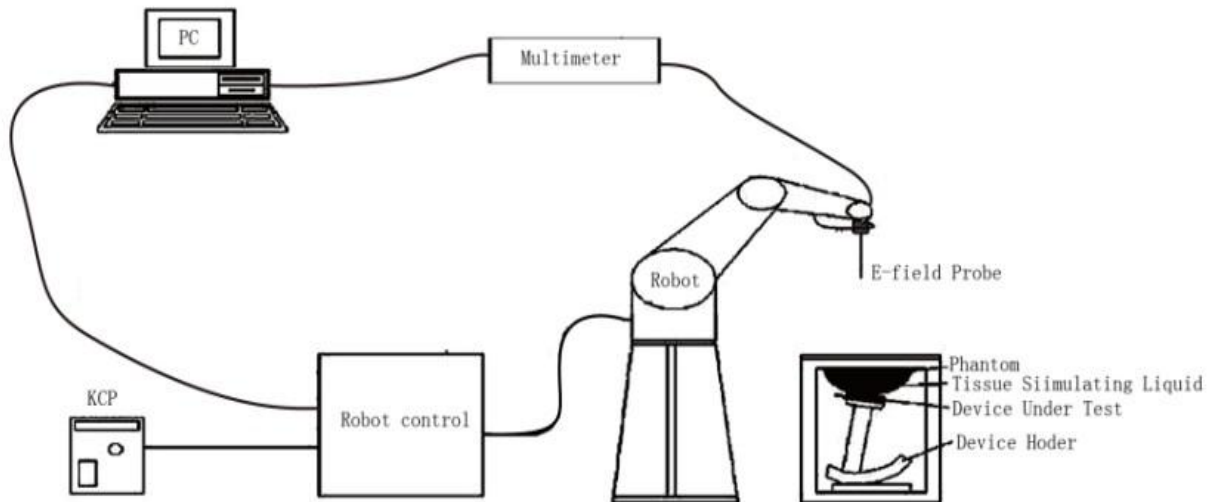
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### 3. SAR MEASUREMENT SYSTEM

#### 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

Model	SSE2		
Manufacture	MVG		
Identification No.	2023-EPGO-414		
Frequency	0.15GHz-7.5GHz Linearity:±0.09dB(0.15GHz-7.5GHz)		
Dynamic Range	0.01W/kg-100W/kg Linearity:±0.09dB		
Dimensions	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		
Application	High precision dosimetric measurements in any exposure scenario (e.g., very strong gradient fields). Only probe which enables compliance testing for frequencies up to 6 GHz with precisin of better 30%.		

### 3.3. Robot

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.

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

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

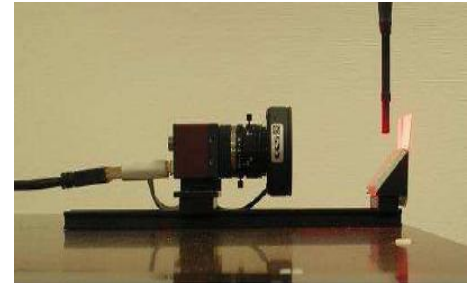


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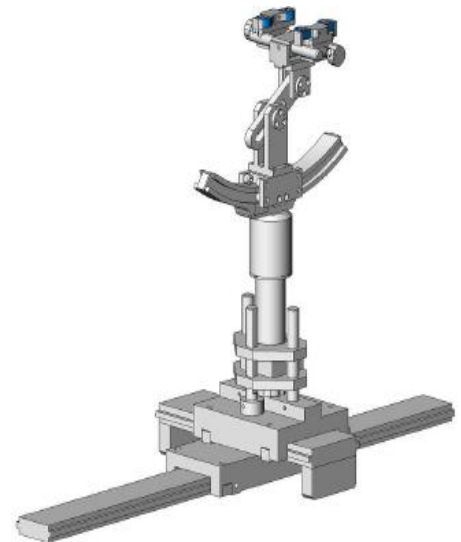
### 3.4. Video Positioning System

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.

### ELLI39 Phantom

The Flat phantom is a fiberglass shellphantom with 2mm+/- 0.2 mm shell thickness. It has only one measurement area for Flat phantom



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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

	$\leq 3 \text{ GHz}$	$> 3 \text{ GHz}$
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface	$5 \pm 1 \text{ mm}$	$\frac{1}{2} \cdot \delta \cdot \ln(2) \pm 0.5 \text{ mm}$
Maximum probe angle from probe axis to phantom surface normal at the measurement location	$30^\circ \pm 1^\circ$	$20^\circ \pm 1^\circ$
Maximum area scan spatial resolution: $\Delta x_{\text{Area}}, \Delta y_{\text{Area}}$	$\leq 2 \text{ GHz: } \leq 15 \text{ mm}$ $2 - 3 \text{ GHz: } \leq 12 \text{ mm}$	$3 - 4 \text{ GHz: } \leq 12 \text{ mm}$ $4 - 6 \text{ GHz: } \leq 10 \text{ mm}$
	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 $\leq$ 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.

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

Maximum zoom scan spatial resolution: $\Delta x_{Zoom}$ , $\Delta y_{Zoom}$			$\leq 2 \text{ GHz}: \leq 8 \text{ mm}$ $2 - 3 \text{ GHz}: \leq 5 \text{ mm}^*$	$3 - 4 \text{ GHz}: \leq 5 \text{ mm}^*$ $4 - 6 \text{ GHz}: \leq 4 \text{ mm}^*$
Maximum zoom scan spatial resolution, normal to phantom surface	uniform grid: $\Delta z_{Zoom}(n)$		$\leq 5 \text{ mm}$	$3 - 4 \text{ GHz}: \leq 4 \text{ mm}$ $4 - 5 \text{ GHz}: \leq 3 \text{ mm}$ $5 - 6 \text{ GHz}: \leq 2 \text{ mm}$
	graded grid	$\Delta z_{Zoom}(1)$ : between 1 <sup>st</sup> two points closest to phantom surface	$\leq 4 \text{ mm}$	$3 - 4 \text{ GHz}: \leq 3 \text{ mm}$ $4 - 5 \text{ GHz}: \leq 2.5 \text{ mm}$ $5 - 6 \text{ GHz}: \leq 2 \text{ mm}$
		$\Delta z_{Zoom}(n>1)$ : between subsequent points	$\leq 1.5 \cdot \Delta z_{Zoom}(n-1)$	
Minimum zoom scan volume	x, y, z		$\geq 30 \text{ mm}$	$3 - 4 \text{ GHz}: \geq 28 \text{ mm}$ $4 - 5 \text{ GHz}: \geq 25 \text{ mm}$ $5 - 6 \text{ GHz}: \geq 22 \text{ mm}$
Note: $\delta$ is the penetration depth of a plane-wave at normal incidence to the tissue medium; see draft standard IEEE P1528-2011 for details.				
* When zoom scan is required and the <u>reported</u> SAR from the <i>area scan based 1-g SAR estimation</i> procedures of KDB 447498 is $\leq 1.4 \text{ W/kg}$ , $\leq 8 \text{ mm}$ , $\leq 7 \text{ mm}$ and $\leq 5 \text{ mm}$ zoom scan resolution may be applied, respectively, for 2 GHz to 3 GHz, 3 GHz to 4 GHz and 4 GHz to 6 GHz.				

#### 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.



### 4.3. RF Exposure Conditions

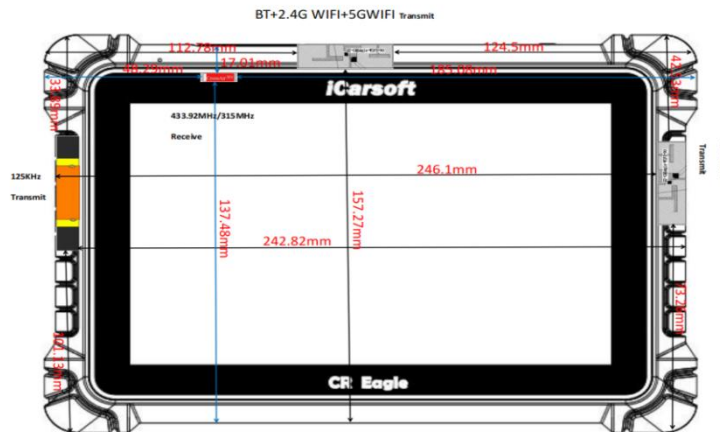
### Test Configuration and setting:

The EUT is a model of Portable Mobile Station (MS).

The EUT have two Antenna. Ant A supports BT and WIFI2.4G&5G function and Ant B supports WIFI2.4G function.

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

### Antenna Location: (The Back View)



Note:

- 1) Per KDB 616217, the diagonal length is > 200mm, the device is considered a “tablet” device and needed to test 0mm 1-g body SAR.
- 2) Per KDB 616217, exposures to hands for typical consumer transmitters used in tablets are not expected to exceed the extremity SAR limit; therefore, SAR evaluation for the Front surface of tablet display screens are generally not necessary.

Distance from the antenna to the EUT edge(mm)						
ANT	Front	Back	Left	Right	Top	Bottom
Ant_A	N/A	40	124.5	112.78	10	157.27
Ant_B	N/A	40	10	246.1	42.53	73.26

When the minimum test separation distance is < 50 mm, a distance of 5 mm is applied to determine SAR test exclusion.

### SAR Test Exclusion Consideration for Adjacent Edges

Per KDB 447498 D01 cl. 4.3.1:

- a) 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:

$$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0 \text{ for 1-g SAR, and } \leq 7.5 \text{ for 10-g extremity SAR.}$$

- b) For 100 MHz to 6 GHz and test separation distances > 50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:

- 1)  $\{[\text{Power allowed at numeric threshold for 50 mm in step a)}] + [(\text{test separation distance} - 50 \text{ mm}) \cdot (f(\text{MHz})/150)]\}$  mW, for 100 MHz to 1500 MHz
- 2)  $\{[\text{Power allowed at numeric threshold for 50 mm in step a)}] + [(\text{test separation distance} - 50 \text{ mm}) \cdot 10]\}$  mW, for  $> 1500 \text{ MHz}$  and  $d \leq 6 \text{ GHz}$

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1-g SAR test exclusion thresholds for WLAN_Ant_A						
Test Mode	Test position	Back (5mm)	Edge Left (124.5mm)	Edge Right (112.78mm)	Edge Top (5mm)	Edge Bottom (157.27mm)
2.4G BT	SAR test exclusion thresholds(mW)	10	840.25	723.05	10	1167.95
	SAR Max. Avg. Burst Power(mW)	3.16	3.16	3.16	3.16	3.16
	SAR required (Yes/No)	NO	NO	NO	NO	NO
2.4G WIFI	SAR test exclusion thresholds(mW)	10	840.25	723.40	10	1168.30
	SAR Max. Avg. Burst Power(mW)	31.62	31.62	31.62	31.62	31.62
	SAR required (Yes/No)	YES	NO	NO	YES	NO
5.2G WIFI	SAR test exclusion thresholds(mW)	7	810.59	693.39	7	1138.29
	SAR Max. Avg. Burst Power(mW)	19.95	19.95	19.95	19.95	19.95
	SAR required (Yes/No)	YES	NO	NO	YES	NO
5.3G WIFI	SAR test exclusion thresholds(mW)	7	810.22	693.02	7	1137.92
	SAR Max. Avg. Burst Power(mW)	17.78	17.78	17.78	17.78	17.78
	SAR required (Yes/No)	YES	NO	NO	YES	NO
5.8G WIFI	SAR test exclusion thresholds(mW)	6	807.15	689.95	6	1134.85
	SAR Max. Avg. Burst Power(mW)	19.95	19.95	19.95	19.95	19.95
	SAR required (Yes/No)	YES	NO	NO	YES	NO

1-g SAR test exclusion thresholds for WLAN_Ant_B						
Test Mode	Test position	Back (5mm)	Edge Left (5mm)	Edge Right (246.1mm)	Edge Top (5mm)	Edge Bottom (73.26mm)
2.4G WIFI	SAR test exclusion thresholds(mW)	10	10	2056.60	10	328.20
	SAR Max. Avg. Burst Power(mW)	28.18	28.18	28.18	28.18	28.18
	SAR required (Yes/No)	YES	YES	NO	YES	NO

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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

<b>Ingredient (% Weight)</b> <b>Frequency (MHz)</b>	<b>Water</b>	<b>NaCl</b>	<b>Polysorbate 20</b>	<b>DGBE</b>	<b>1,2- Propanediol</b>	<b>Triton X-100</b>	<b>Diethylen glycol monohex ylether</b>
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
750	41.9	0.89	41.9	0.89
835	41.5	0.90	41.5	0.90
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
1750	40.1	1.37	40.1	1.37
1800 – 2000	40.0	1.40	40.0	1.40
2300	39.5	1.67	39.5	1.67
<b>2450</b>	<b>39.2</b>	<b>1.80</b>	39.2	1.80
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>	36.0	4.66
5300	35.9	4.76	35.9	4.76
5600	35.5	5.07	35.5	5.07
<b>5800</b>	<b>35.3</b>	<b>5.27</b>	35.3	5.27

( $\epsilon_r$  = 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 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	2402	39.50	1.81	22.5	Sep. 19, 2024
	2412	39.51	1.82		
	2422	39.48	1.83		
	2437	39.45	1.84		
	2441	39.44	1.85		
	2450	39.36	1.82		
	2452	39.36	1.81		
	2462	39.34	1.90		
	2480	39.32	1.91		

Tissue Stimulant Measurement for 5200MHz					
	Fr. (MHz)	Dielectric Parameters ( $\pm 10\%$ )		Tissue Temp [°C]	Test time
		$\epsilon_r$ 36.0(32.4-39.6)	$\delta$ [s/m] 4.66(4.194 -5.126)		
Head	5200	35.51	4.59	22.4	Sep. 21, 2024
	5210	35.59	4.54		
	5280	35.52	4.72		

Tissue Stimulant Measurement for 5800MHz					
	Fr. (MHz)	Dielectric Parameters ( $\pm 10\%$ )		Tissue Temp [°C]	Test time
		$\epsilon_r$ 35.3 (31.77-38.83)	$\delta$ [s/m] 5.27 (4.743-5.797)		
Head	5745	35.02	5.12	22.4	Sep. 21, 2024
	5785	34.95	5.22		
	5800	34.89	5.24		
	5825	34.87	5.25		

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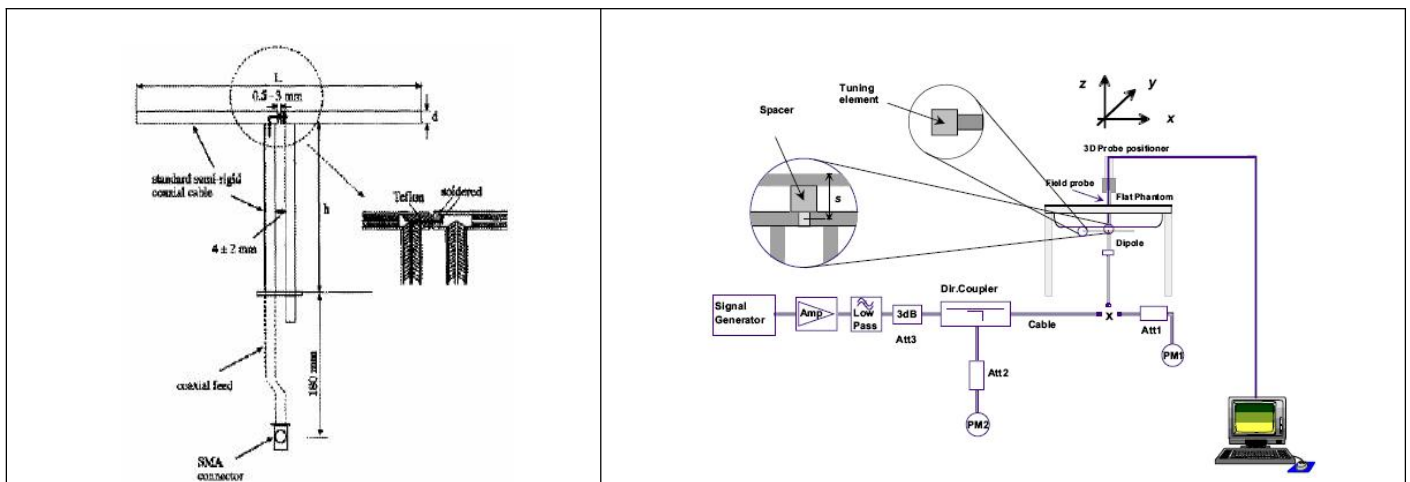
## 6. SAR SYSTEM CHECK PROCEDURE

### 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.

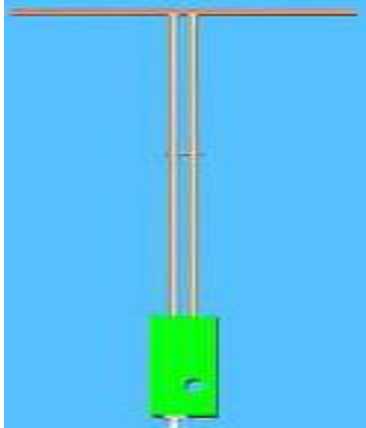

The system check verifies that the system operates within its specifications. It's performed daily or before every SAR measurement. The system check uses normal SAR measurement in the flat section of the phantom with a matched dipole at a specified distance. The system check setup is shown as below.



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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)
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 2450MHz &5200MHz &5800MHz for Head								
Validation Kit: 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		
2450	54.32	24.25	48.888-59.752	21.825-26.675	54.13	25.25	22.5	Sep. 19, 2024
5200	73.43	21.83	66.087-80.773	19.647-24.013	74.90	21.44	22.4	Sep. 21, 2024
5800	75.69	22.44	68.121-83.259	20.196-24.684	76.89	22.05	22.4	Sep. 21, 2024

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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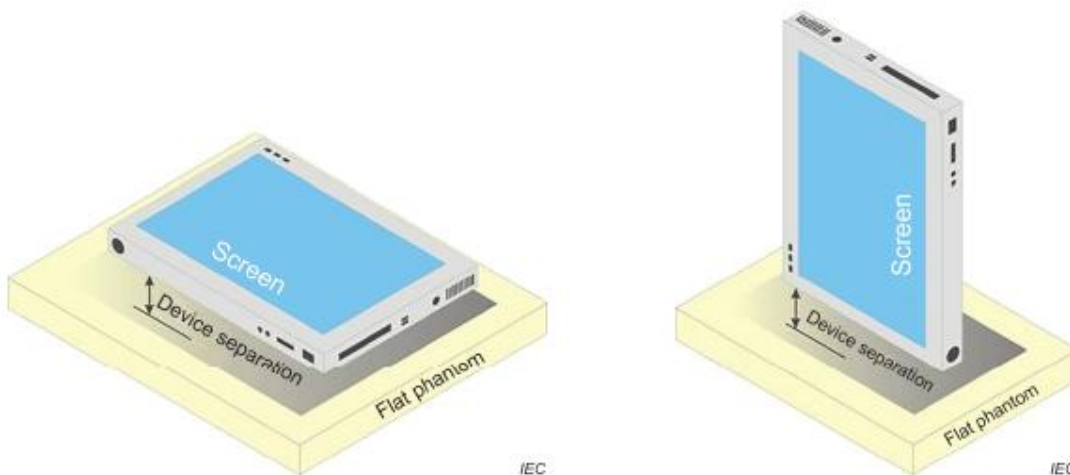
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## 7. EUT TEST POSITION

This EUT was tested in **Body back, Edge Top and Edge Left**.

### 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 **0cm**.



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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	Apr 30, 2024	Apr 29, 2025
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, 2024	Jun. 02, 2025
Comm Tester	R&S- CMW500	121209	V3.7.40	Jun. 01, 2024	May 31, 2025
Multimeter	Keithley 2000	4114939	N/A	Jun. 01, 2024	May 31, 2025
SAR Software	MVG-OpenSAR	N/A	OpenSAR V4_02_35	N/A	N/A
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, 2024	May 31, 2025
Vector Analyzer	Agilent / E4440A	MY44303916	N/A	Jun. 01, 2024	May 31, 2025
Network Analyzer	Rhode & Schwarz ZVL6	SN101443	3.2	Jul. 24, 2024	Jul. 23, 2025
Amplifier	AS0104-55_55	1004793	N/A	N/A	N/A
Directional Couple	Werlatone/ C5571-10	SN99463	N/A	Feb. 01, 2024	Jan. 31, 2025
Directional Couple	Werlatone/ C6026-10	SN99482	N/A	Feb. 01, 2024	Jan. 31, 2025
Power Sensor	NRP-Z21	1137.6000.02	N/A	Sep. 05, 2024	Sep. 04, 2025
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

### Bluetooth\_BT

BT	Average Power(dBm)			
	Max. Tune up	CH0	CH39	CH78
		2402MHz	2441MHz	2480MHz
DH5	5.00	4.19	4.21	3.91
2DH5	5.00	<b>4.33</b>	<b>4.26</b>	<b>3.94</b>
3DH5	5.00	4.22	4.20	3.92

BLE	Average Power(dBm)			
	Max. Tune up	CH0	CH19	CH39
		2402MHz	2440MHz	2480MHz
BLE(1M)	-2.00	-2.35	-2.64	-2.87
BLE(2M)	-2.00	-2.47	-2.68	-2.95

### WIFI\_WIFI2.4G\_1TX\_ANT A

Band	Mode	Channel	Frequency (MHz)	Data Rate (Mbps)	Max. Tune up	Average Power(dBm)
2.4G WIFI	802.11b	1	2412	1	14.00	13.06
		6	2437		14.00	12.94
		11	2462		14.00	13.03
	802.11g	1	2412	6	15.00	14.49
		6	2437		15.00	14.47
		11	2462		15.00	14.44
	802.11n HT20	1	2412	HT0	15.00	13.91
		6	2437		15.00	14.23
		11	2462		15.00	14.23
	802.11n HT40	3	2422	HT0	15.00	<b>14.21</b>
		6	2437		15.00	<b>14.48</b>
		9	2452		15.00	<b>14.67</b>

Note: The tested channel results are marks in bold.

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# WIFI\_WIFI2.4G\_1TX\_ANT B

Band	Mode	Channel	Frequency (MHz)	Data Rate (Mbps)	Max. Tune up	Average Power(dBm)
2.4G WIFI	802.11b	1	2412	1	14.00	12.70
		6	2437		14.00	12.88
		11	2462		14.00	12.81
	802.11g	1	2412	6	14.50	13.77
		6	2437		14.50	14.00
		11	2462		14.50	13.78
	802.11n HT20	1	2412	HT0	14.50	<b>14.13</b>
		6	2437		14.50	<b>13.87</b>
		11	2462		14.50	<b>13.80</b>
	802.11n HT40	3	2422	HT0	14.00	13.14
		6	2437		14.00	13.24
		9	2452		14.00	13.54

Note: The tested channel results are marks in bold.

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## WIFI\_WIFI5G

Band	Mode	Channel	Frequency (MHz)	Data Rate (Mbps)	Max. Tune-up	Average Power(dBm)
5.2G	802.11a	36	5180	6	12.00	11.87
		40	5200		12.00	11.23
		48	5240		12.00	10.96
	802.11n HT20	36	5180	HT0	12.00	11.78
		40	5200		12.00	11.00
		48	5240		12.00	10.65
	802.11n HT40	38	5190	HT0	10.00	9.18
		46	5230		12.00	10.97
	802.11ac VHT20	36	5180	VHT0	12.00	11.81
		40	5200		12.00	10.88
		48	5240		12.00	10.95
	802.11ac VHT40	38	5190	VHT0	12.00	10.48
		46	5230		12.00	10.16
	802.11ac VHT80	42	5210	VHT0	13.00	<b>12.53</b>
5.3G	802.11a	52	5260	6	13.00	12.17
		56	5280		13.00	<b>12.51</b>
		64	5320		13.00	12.36
	802.11n HT20	52	5260	HT0	13.00	12.36
		56	5280		13.00	12.31
		64	5320		13.00	12.17
	802.11n HT40	54	5270	HT0	13.00	12.08
		62	5310		13.00	12.15
	802.11ac VHT20	52	5260	VHT0	13.00	12.34
		56	5280		13.00	12.41
		64	5320		13.00	12.36
	802.11ac VHT40	54	5270	VHT0	13.00	12.23
		62	5310		13.00	12.31
	802.11ac VHT80	58	5290	VHT0	13.00	12.28
5.8G	802.11a	149	5745	6	11.00	9.08
		157	5785		12.50	11.25
		165	5825		12.50	11.97

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	802.11n HT20	149	5745	HT0	11.00	<b>9.13</b>
		157	5785		12.50	<b>11.41</b>
		165	5825		12.50	<b>12.04</b>
	802.11n HT40	151	5755	HT0	11.00	10.17
		159	5795		11.00	10.94
	802.11ac VHT20	149	5745	VHT0	11.00	9.07
		157	5785		12.50	11.48
		165	5825		12.50	11.97
	802.11ac VHT40	151	5755	VHT0	11.00	9.52
		159	5795		11.00	10.17
	802.11ac VHT80	155	5775	VHT0	12.50	11.38

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## 13. TEST RESULTS

### 13.1. SAR Test Results Summary

#### 13.1.1. Test position and configuration

**Body back and Edge Top and Edge Left SAR was performed with the device 0cm 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 648474 D04 v01r03,when the reported SAR for a body-worn accessory measured without a headset connected to the handset is  $\leq 1.2$ W/kg, SAR testing with a headset connected is not required.
4. 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.
5. 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.

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6. Per KDB616217 D04 v01r02, The antennas in tablets are typically located near the back (bottom) surface and/or along the edges of the devices; therefore, SAR evaluation is required for these configurations. Exposures from antennas through the front (top) surface of the display section of a full-size tablet, away from the edges, are generally limited to the user's hands. Exposures to hands for typical consumer transmitters used in tablets are not expected to exceed the extremity SAR limit; therefore, SAR evaluation for the front surface of tablet display screens are generally not necessary, except for tablets that are designed to require continuous operations with the hand(s) next to the antenna(s).
7. Maximum Scaling SAR in order to calculate the Maximum SAR values to test under the standard Peak Power, Calculation method is as follows:  
$$\text{Maximum Scaling SAR} = \text{tested SAR (Max.)} \times [\text{maximum turn-up power (mw)} / \text{maximum measurement output power(mw)}]$$

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### 13.1.3. Test Result

SAR MEASUREMENT FOR WIFI2.4G_Ant_A									
Depth of Liquid (cm):>15				Relative Humidity (%): 54.1					
Product:Car Diagnostic Tool									
Test Mode:802.11n40									
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	802.11n40	9	2452	0.04	0.122	15.00	14.67	0.132	1.6
Edge(Top)	802.11n40	9	2452	0.16	0.627	15.00	14.67	0.680	1.6
Edge(Top)	802.11n40	3	2422	0.07	0.536	15.00	14.21	0.646	1.6
Edge(Top)	802.11n40	6	2437	-0.08	<b>0.673</b>	15.00	14.48	<b>0.762</b>	1.6

SAR MEASUREMENT FOR WIFI2.4G_Ant_B									
Depth of Liquid (cm):>15				Relative Humidity (%): 54.1					
Product:Diagnostic Tool									
Test Mode:802.11n20									
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	802.11n20	1	2412	0.01	0.064	14.50	14.13	0.073	1.6
Edge(Left)	802.11n20	1	2412	0.03	<b>0.126</b>	14.50	14.13	<b>0.145</b>	1.6
Edge(Top)	802.11n20	1	2412	0.04	0.098	14.50	14.13	0.113	1.6
Edge(Left)	802.11n20	6	2437	0.08	0.102	14.50	13.87	0.124	1.6
Edge(Left)	802.11n20	11	2462	0.03	0.112	14.50	13.80	0.139	1.6

SAR MEASUREMENT FOR BT_Ant_A									
Depth of Liquid (cm):>15				Relative Humidity (%): 54.1					
Product:Diagnostic Tool									
Test Mode:BT									
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	BT	0	2402	0.00	<0.001	5.00	4.33	<0.001	1.6
Edge(Top)	BT	0	2402	0.01	<b>0.078</b>	5.00	4.33	<b>0.107</b>	1.6
Edge(Top)	BT	39	2441	0.03	0.056	5.00	4.26	0.078	1.6
Edge(Top)	BT	78	2480	-0.17	0.063	5.00	3.94	0.095	1.6

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SAR MEASUREMENT FOR WIFI5.2G_Ant_A									
Depth of Liquid (cm):>15				Relative Humidity (%): 53.9					
Product:Diagnostic Tool									
Test Mode:802.11ac80									
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	802.11ac80	42	5210	0.06	0.034	13.00	12.53	0.039	1.6
Edge(Top)	802.11ac80	42	5210	-0.09	<b>0.543</b>	13.00	12.53	<b>0.623</b>	1.6

SAR MEASUREMENT FOR WIFI5.3G_Ant_A									
Depth of Liquid (cm):>15				Relative Humidity (%): 53.9					
Product:Diagnostic Tool									
Test Mode:802.11a									
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	802.11a	56	5280	0.06	0.011	13.00	12.53	0.013	1.6
Edge(Top)	802.11a	56	5280	0.11	0.498	13.00	12.53	0.574	1.6

SAR MEASUREMENT FOR WIFI5.8G_Ant_A									
Depth of Liquid (cm):>15				Relative Humidity (%): 53.9					
Product:Diagnostic Tool									
Test Mode:802.11n20									
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	802.11n20	165	5825	0.03	0.037	12.50	12.04	0.043	1.6
Edge(Top)	802.11n20	165	5825	0.07	0.732	12.50	12.04	0.838	1.6
Edge(Top)	802.11n20	149	5745	0.07	0.609	12.50	11.41	0.806	1.6
Edge(Top)	802.11n20	157	5785	0.01	0.523	11.00	9.13	0.829	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 for Rear Face, and Top Side and Left Side SAR is 0cm of all above table
- Plots are only shown for the bold marked worst case SAR results.

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### Simultaneous Multi-band Transmission Evaluation:

SAR compliance for simultaneous transmission must be considered when the maximum duration of overlapping transmissions, including network hand-offs, is greater than 30 seconds. This device has two antenna that cannot transmit simultaneously, and therefore simultaneous transmission analysis are not requires.

#### Value of the SAR for WIFI & BT:

Band \ Position		Body		
		Body back	Edge Top	Edge Left
Ant_A	WiFi 2.4G	0.132	0.762	/
	WiFi 5.2G	0.039	0.623	/
	WiFi 5.3G	0.013	0.574	/
	WiFi 5.8G	0.043	0.838	/
	BT	<0.001	0.107	/
Ant_B	WiFi 2.4G	0.073	0.113	<b>0.145</b>
<b>Limit</b>		<b>1.6 W/kg</b>		

#### NOTE:

1. WIFI and BT of Ant A share the same antenna, and cannot transmit simultaneously.
2. Ant A and Ant B cannot transmit simultaneously.

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## APPENDIX A. SAR SYSTEM CHECK DATA

Test Laboratory: AGC Lab

Date: Sep. 19, 2024

System Check Head 2450 MHz

DUT: Dipole 2450 MHz Type: SID 2450

Communication System CW; Communication System Band: D2450 (2450.0 MHz); Duty Cycle: 1:1; Conv.F=2.16

Frequency: 2450 MHz; Medium parameters used:  $f = 2450$  MHz;  $\sigma = 1.82$  mho/m;  $\epsilon_r = 39.36$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;

Phantom section: Flat Section; Input Power=18dBm

Ambient temperature (°C):23.2, Liquid temperature (°C): 22.5

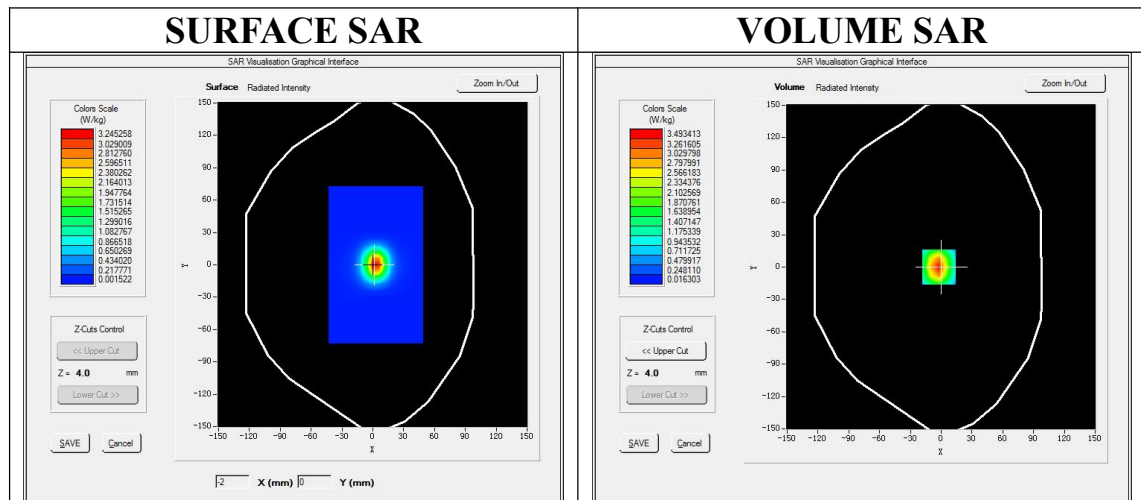
SATIMO Configuration

- Probe: SSE2; Calibrated: Apr 30, 2024; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4\_02\_35

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

Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	7x7x7,dx=5mm dy=5mm dz=5mm
Phantom	SAM twin phantom
Device Position	Flat
Band	CW 2450
Channels	Middle
Signal	Crest factor: 1.0



Maximum location: X=1.00, Y=0.00

SAR Peak: 6.01 W/kg

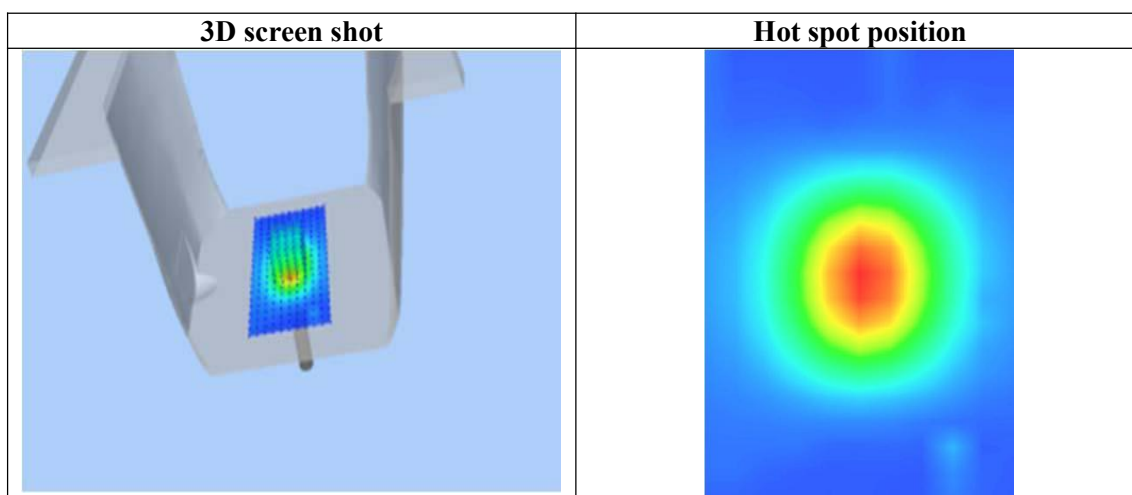
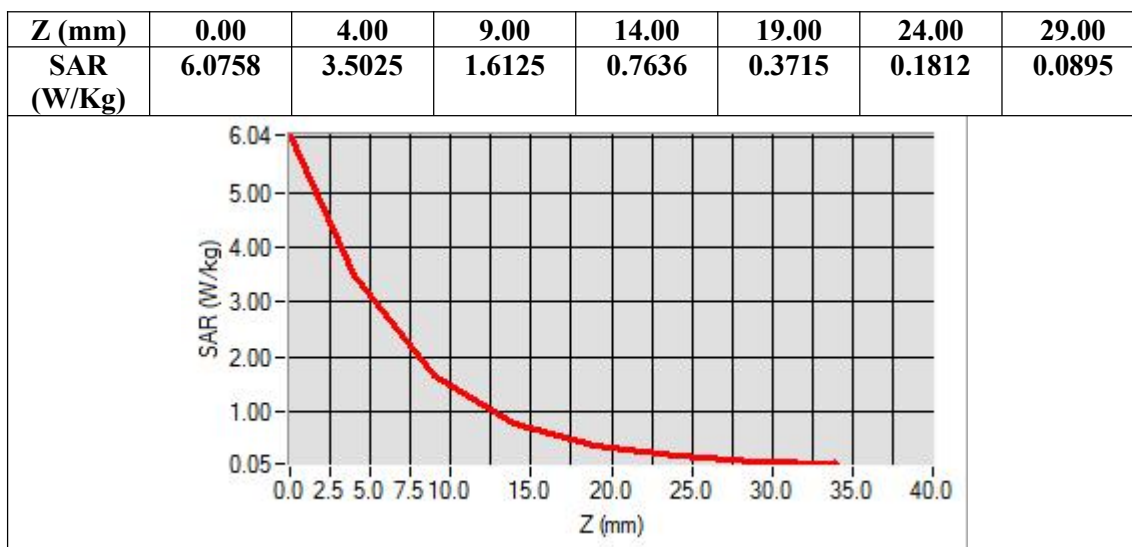
SAR 10g (W/Kg)	1.593212
SAR 1g (W/Kg)	3.415262

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Test Laboratory: AGC Lab

Date: Sep. 21, 2024

System Check 5200 MHz

DUT: Dipole 5000MHz Type: SID5500

Communication System: CW; Communication System Band: D5000 (5000.0 MHz); Duty Cycle: 1:1; Conv.F=1.53

Frequency: 5200 MHz; Medium parameters used:  $f = 5200$  MHz;  $\sigma = 4.59$  mho/m;  $\epsilon_r = 35.51$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;

Phantom section: Flat Section; Input Power=18dBm

Ambient temperature (°C): 22.9, Liquid temperature (°C): 22.4

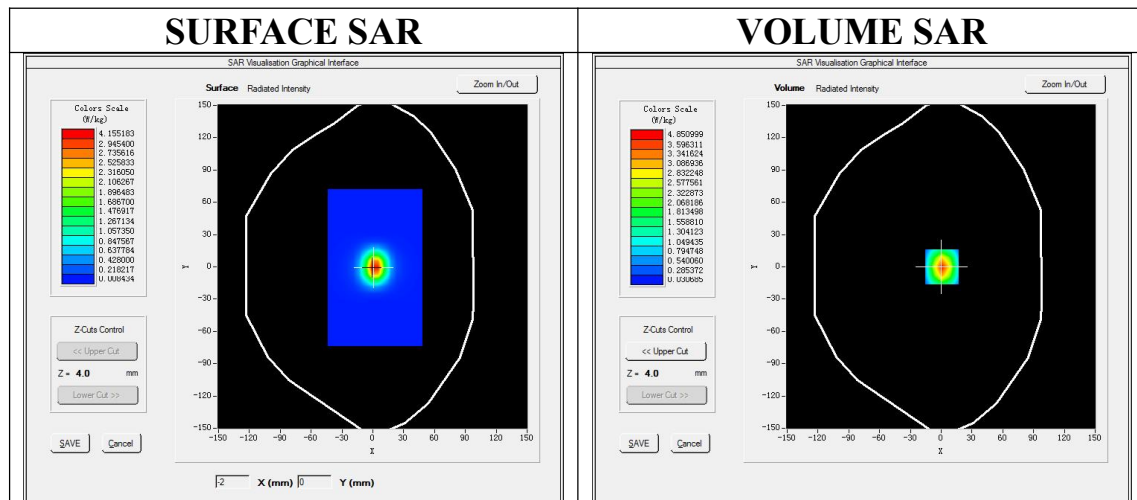
SATIMO Configuration:

- Probe: SSE2; Calibrated: Apr 30, 2024; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4\_02\_35

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

Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	SAM twin phantom
Device Position	Flat
Band	CW 5200
Channels	Middle
Signal	Crest factor: 1.0



Maximum location: X=1.00, Y=0.00

SAR Peak: 6.86 W/kg

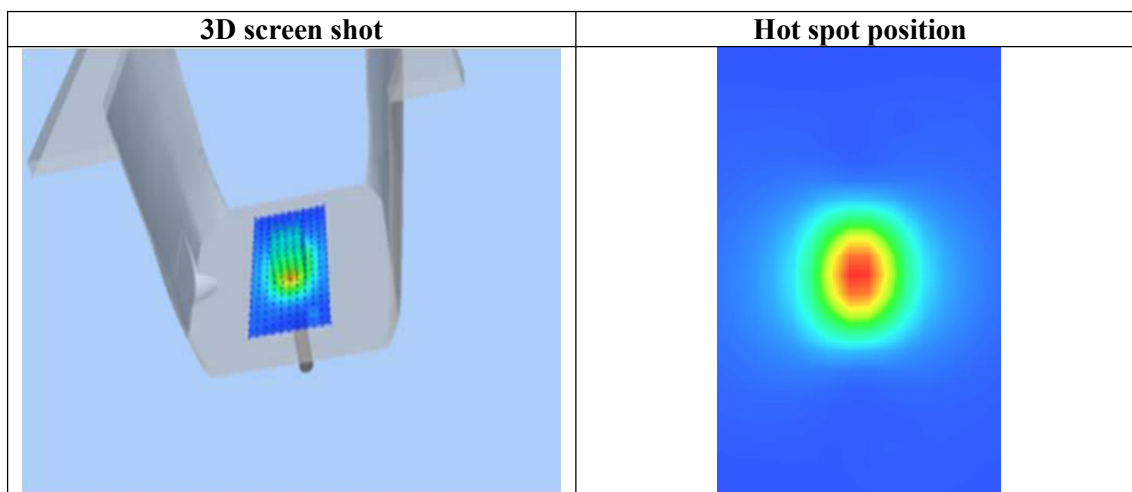
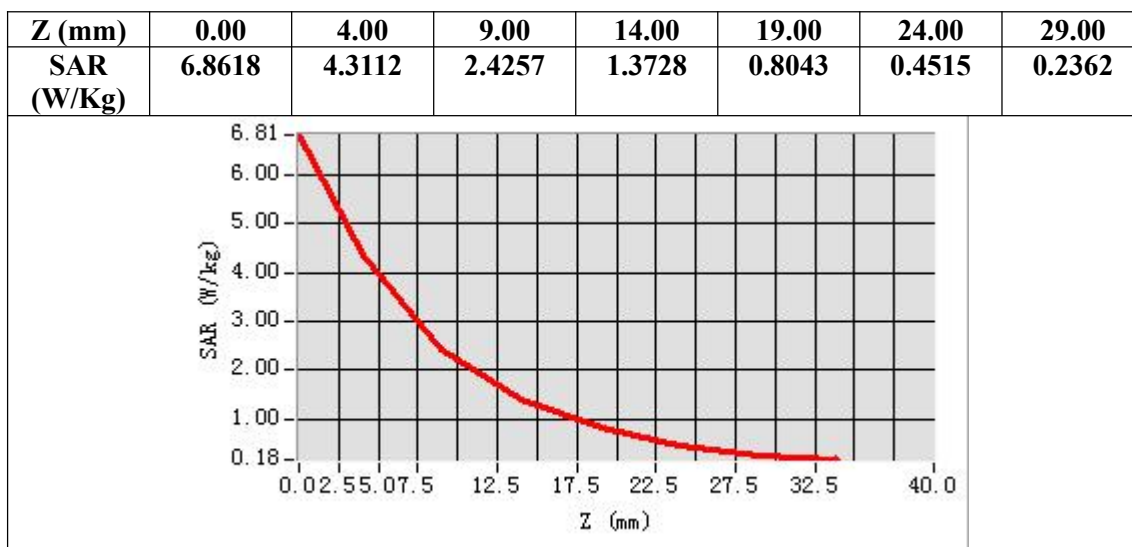
SAR 10g (W/Kg)	1.352565
SAR 1g (W/Kg)	4.725811

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**Test Laboratory: AGC Lab**  
**System Check Head 5800 MHz**  
**DUT: Dipole 5000MHz Type: SID5500**

**Date: Sep. 21, 2024**

Communication System: CW; Communication System Band: D5000 (5000.0 MHz); Duty Cycle: 1:1; Conv.F=1.37  
Frequency: 5800 MHz; Medium parameters used:  $f = 5800$  MHz;  $\sigma = 5.24$  mho/m;  $\epsilon_r = 34.89$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;  
Phantom section: Flat Section; Input Power=18dBm  
Ambient temperature (°C): 22.9, Liquid temperature (°C): 22.4

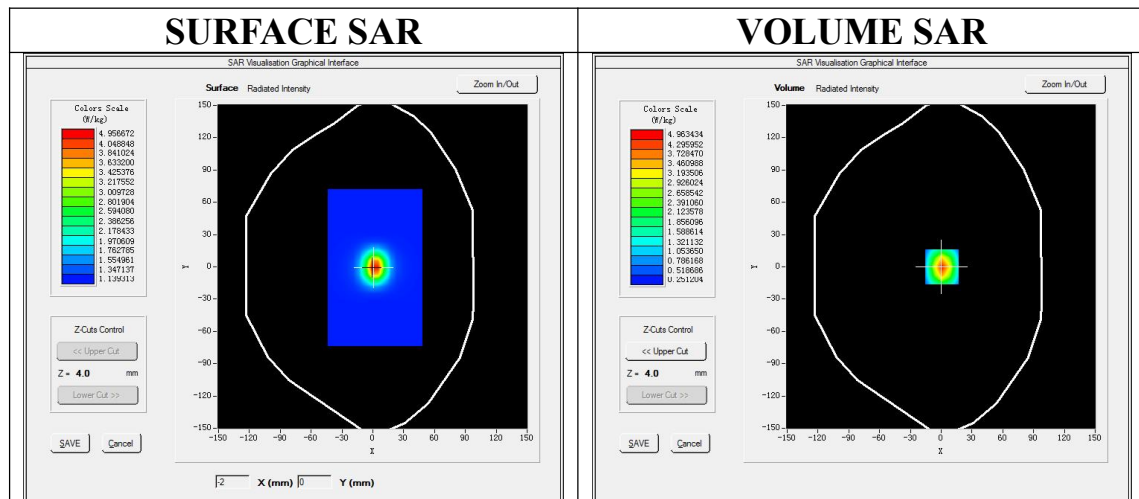
SATIMO Configuration:

- Probe: SSE2; Calibrated: Apr 30, 2024; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4\_02\_35

**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

<b>Area Scan</b>	dx=8mm dy=8mm, h= 5.00 mm
<b>ZoomScan</b>	7x7x12,dx=4mm dy=4mm dz=2mm
<b>Phantom</b>	SAM twin phantom
<b>Device Position</b>	Flat
<b>Band</b>	CW 5800
<b>Channels</b>	Middle
<b>Signal</b>	Crest factor: 1.0



**Maximum location: X=1.00, Y=0.00**

**SAR Peak: 6.93 W/kg**

<b>SAR 10g (W/Kg)</b>	1.391548
<b>SAR 1g (W/Kg)</b>	4.851551

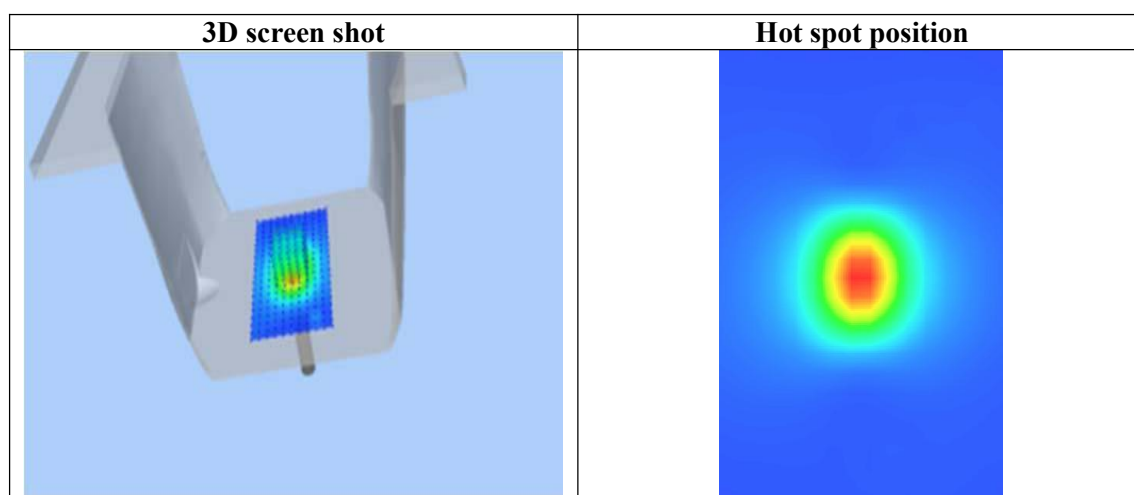
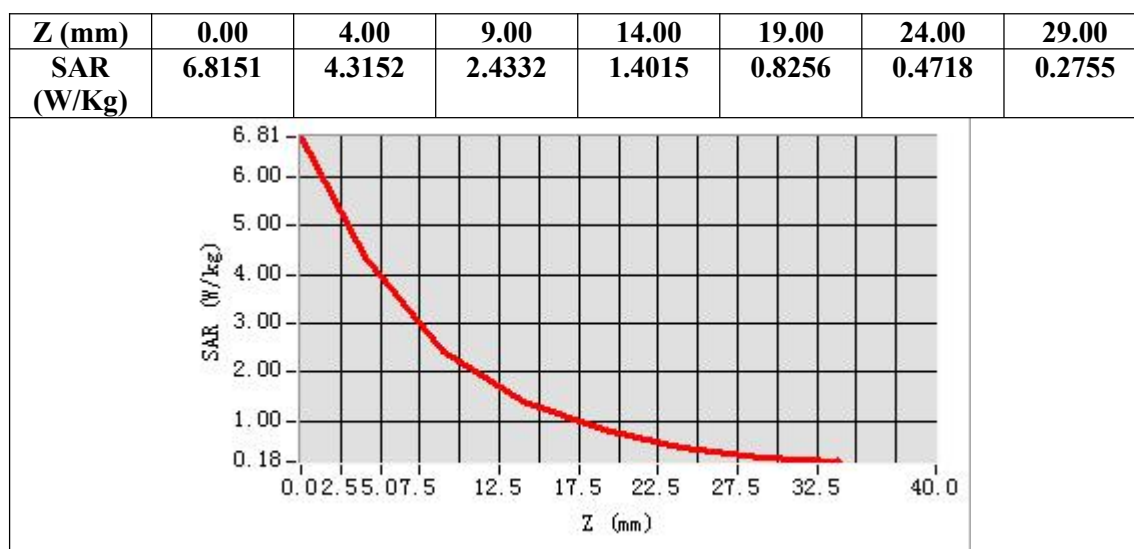
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## APPENDIX B. SAR MEASUREMENT DATA

Test Laboratory: AGC Lab

Date: Sep. 19, 2024

802.11n40 Mid-Edge Top

DUT: Car Diagnostic Tool; Type: CR Eagle

Communication System: Wi-Fi; Communication System Band: 802.11n40; Duty Cycle: 1:1; Conv.F=2.16;  
Frequency: 2437 MHz; Medium parameters used:  $f = 2450$  MHz;  $\sigma = 1.84$  mho/m;  $\epsilon_r = 39.45$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;  
Phantom section: Flat Section  
Ambient temperature (°C):23.2, Liquid temperature (°C): 22.5

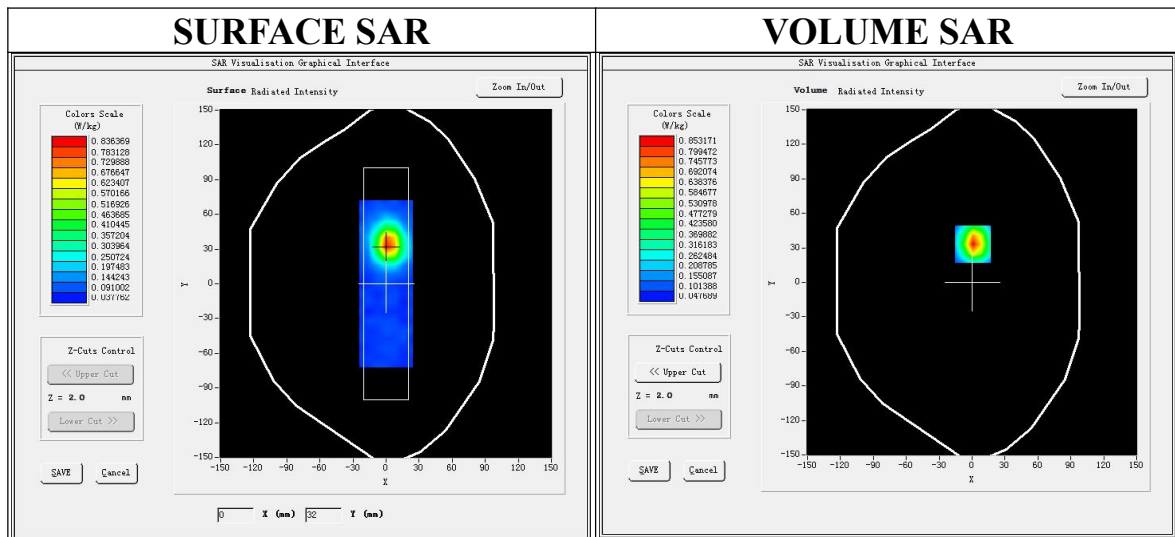
SATIMO Configuration:

- Probe: SSE2; Calibrated: Apr 30, 2024; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4\_02\_35

Configuration/802.11n40 Mid-Edge Top /Area Scan: Measurement grid: dx=8mm, dy=8mm

Configuration/802.11n40 Mid-Edge Top /Zoom Scan: Measurement grid: dx=5mm,dy=5mm, dz=5mm;

Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	7x7x7,dx=5mm dy=5mm dz=5mm
Phantom	SAM twin phantom
Device Position	Edge Top
Band	2450MHz
Channels	Middle
Signal	Crest factor: 1.0



**Maximum location: X=0.00, Y=32.00**  
**SAR Peak: 1.173 W/kg**

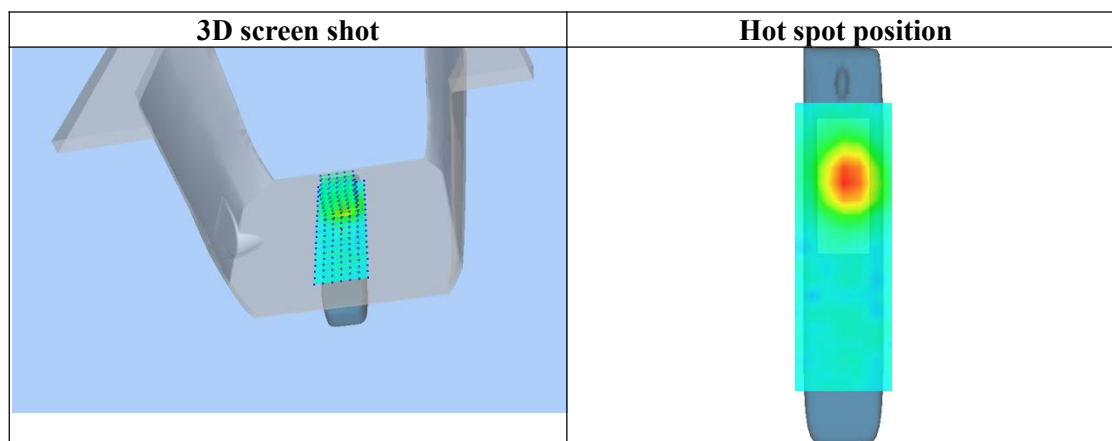
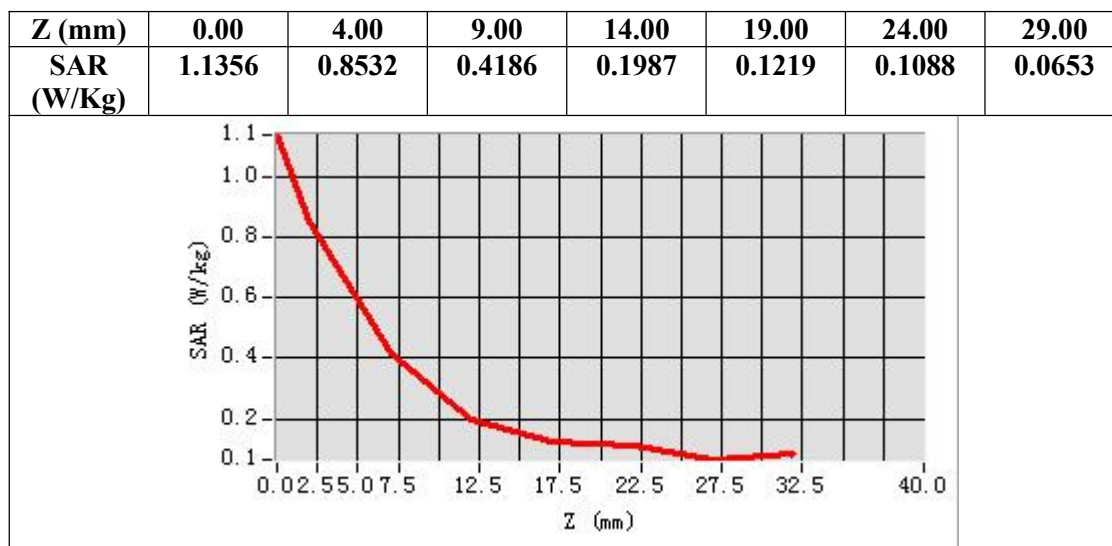
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<b>SAR 10g (W/Kg)</b>	0.313426
<b>SAR 1g (W/Kg)</b>	0.672903



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**Test Laboratory: AGC Lab**  
**802.11n20 Low-Edge Left**  
**DUT: Car Diagnostic Tool; Type: CR Eagle**

**Date: Sep. 19, 2024**

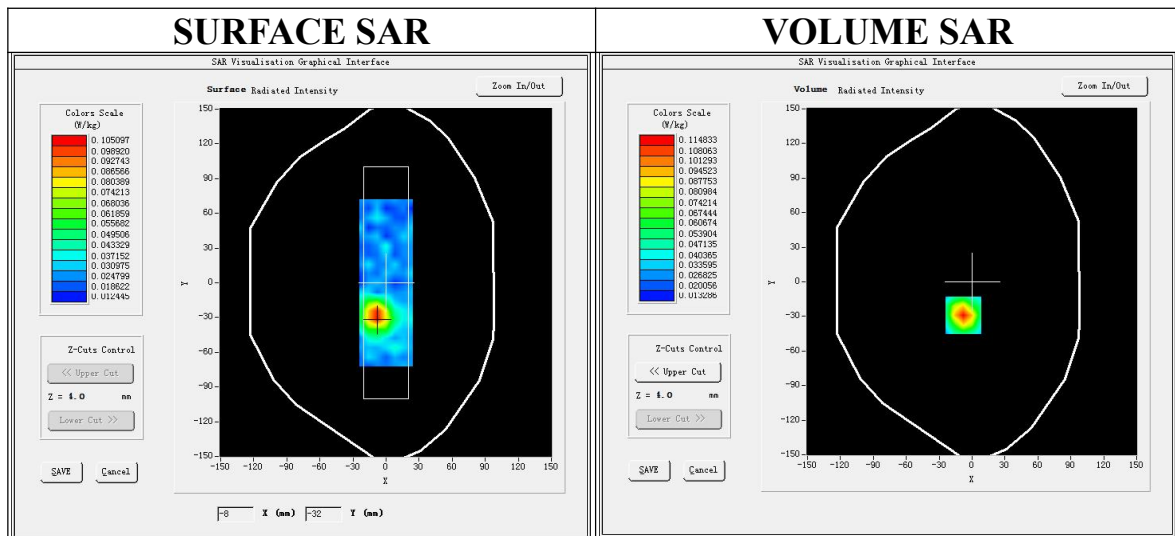
Communication System: Wi-Fi; Communication System Band: 802.11n20; Duty Cycle: 1:1; Conv.F=2.16;  
Frequency: 2412 MHz; Medium parameters used:  $f = 2450$  MHz;  $\sigma = 1.82$  mho/m;  $\epsilon_r = 39.51$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;  
Phantom section: Flat Section  
Ambient temperature (°C):23.2, Liquid temperature (°C): 22.5

SATIMO Configuration:

- Probe: SSE2; Calibrated: Apr 30, 2024; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4\_02\_35

**Configuration/802.11n20 Low-Edge Left /Area Scan:** Measurement grid: dx=8mm, dy=8mm  
**Configuration/802.11n20 Low-Edge Left /Zoom Scan:** Measurement grid: dx=5mm,dy=5mm, dz=5mm;

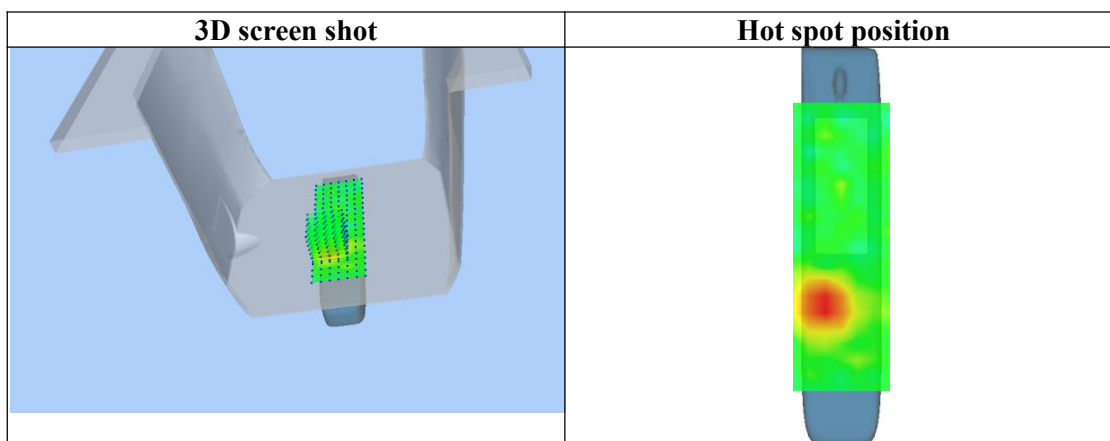
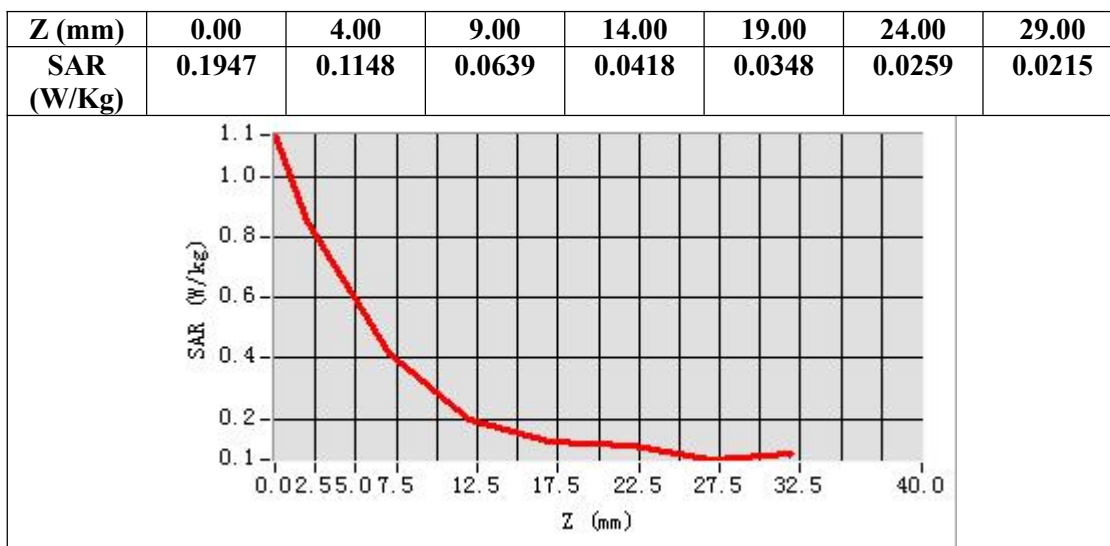
<b>Area Scan</b>	dx=8mm dy=8mm, h= 5.00 mm
<b>ZoomScan</b>	7x7x7,dx=5mm dy=5mm dz=5mm
<b>Phantom</b>	SAM twin phantom
<b>Device Position</b>	Edge Left
<b>Band</b>	2450MHz
<b>Channels</b>	Low
<b>Signal</b>	Crest factor: 1.0



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<b>SAR 10g (W/Kg)</b>	<b>0.059058</b>
<b>SAR 1g (W/Kg)</b>	<b>0.126107</b>



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**Test Laboratory: AGC Lab**  
**BT Low-Edge Top**  
**DUT: Car Diagnostic Tool; Type: CR Eagle**

**Date: Sep. 19, 2024**

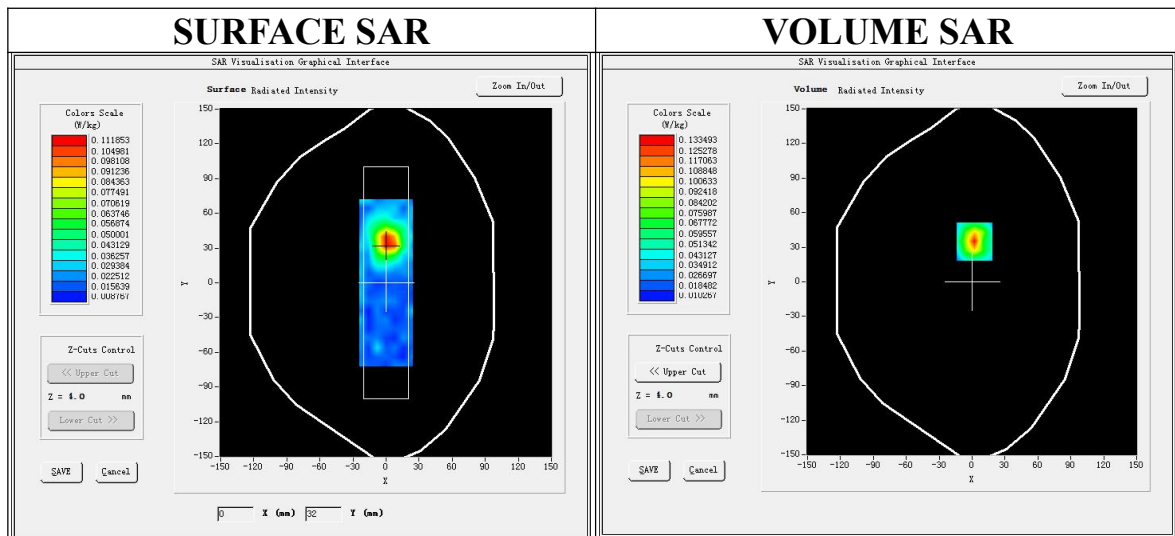
Communication System: BT Communication System Band: BT; Duty Cycle: 1:1; Conv.F=2.16;  
Frequency: 2402 MHz; Medium parameters used:  $f = 2450$  MHz;  $\sigma = 1.81$  mho/m;  $\epsilon_r = 39.50$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;  
Phantom section: Flat Section  
Ambient temperature (°C):23.2, Liquid temperature (°C): 22.5

SATIMO Configuration:

- Probe: SSE2; Calibrated: Apr 30, 2024; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4\_02\_35

**Configuration/BT Low-Edge Top /Area Scan:** Measurement grid: dx=8mm, dy=8mm  
**Configuration/BT Low-Edge Top /Zoom Scan:** Measurement grid: dx=5mm,dy=5mm, dz=5mm;

<b>Area Scan</b>	dx=8mm dy=8mm, h= 5.00 mm
<b>ZoomScan</b>	7x7x7,dx=5mm dy=5mm dz=5mm
<b>Phantom</b>	SAM twin phantom
<b>Device Position</b>	Edge Top
<b>Band</b>	BT
<b>Channels</b>	Low
<b>Signal</b>	Crest factor: 1.0

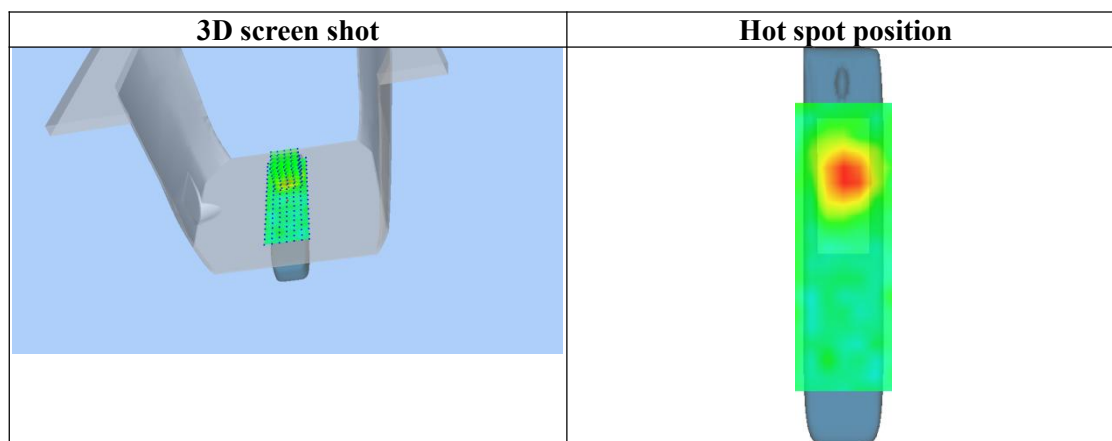
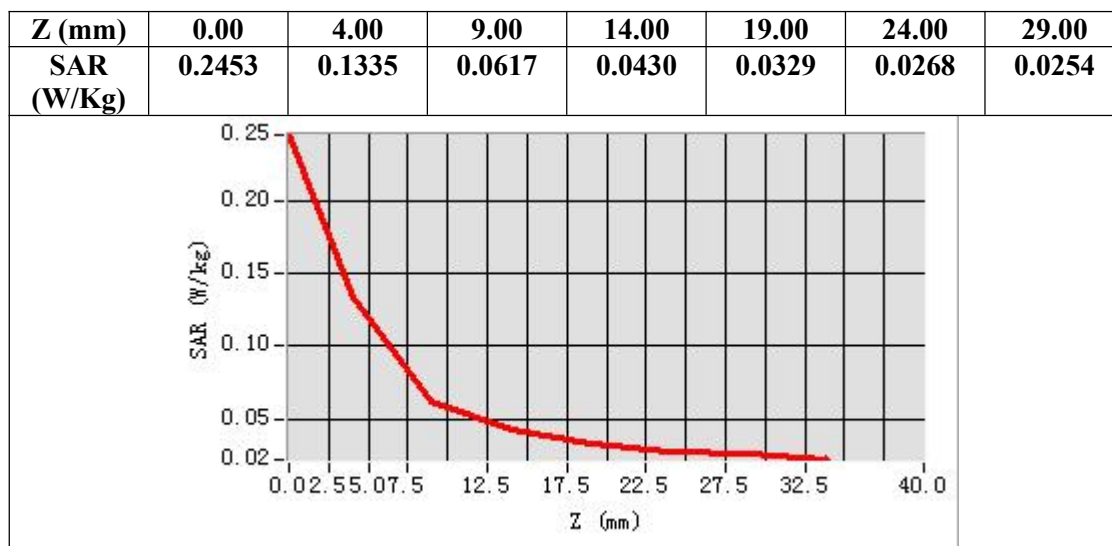


**Maximum location: X=0.00, Y=-32.00**  
**SAR Peak: 0.241 W/kg**

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<b>SAR 10g (W/Kg)</b>	0.033195
<b>SAR 1g (W/Kg)</b>	0.077650



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**Test Laboratory: AGC Lab**  
**802.11ac80 High-Edge Top**  
**DUT: Car Diagnostic Tool; Type: CR Eagle**

**Date: Sep. 21, 2024**

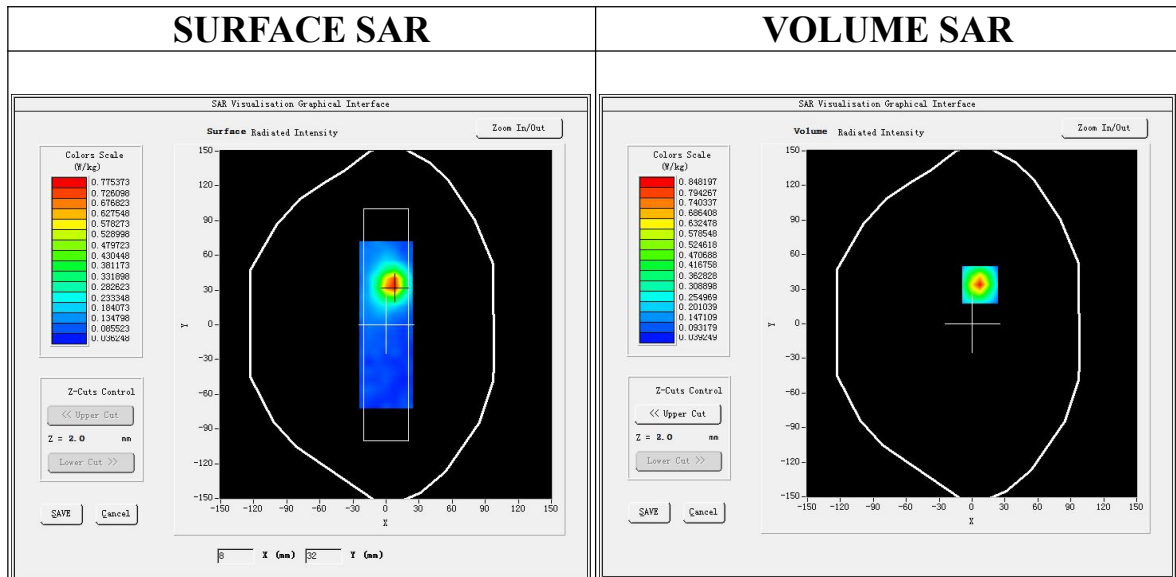
Communication System: Wi-Fi; Communication System Band: 802.11ac80; Duty Cycle: 1:1; Conv.F=1.53;  
Frequency: 5210 MHz; Medium parameters used:  $f = 5200$  MHz;  $\sigma = 4.54$  mho/m;  $\epsilon_r = 35.59$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;  
Phantom section: Flat Section  
Ambient temperature (°C):22.9, Liquid temperature (°C): 22.4

SATIMO Configuration:

- Probe: SSE2; Calibrated: Apr 30, 2024; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4\_02\_35

**Configuration/802.11ac80 High-Edge Top /Area Scan:** Measurement grid: dx=8mm, dy=8mm  
**Configuration/802.11ac80 High-Edge Top /Zoom Scan:** Measurement grid: dx=4mm,dy=4mm, dz=2mm;

<b>Area Scan</b>	dx=8mm dy=8mm, h= 5.00 mm
<b>ZoomScan</b>	7x7x12,dx=4mm dy=4mm dz=2mm
<b>Phantom</b>	SAM twin phantom
<b>Device Position</b>	Edge Top
<b>Band</b>	5200MHz
<b>Channels</b>	High
<b>Signal</b>	Crest factor: 1.0



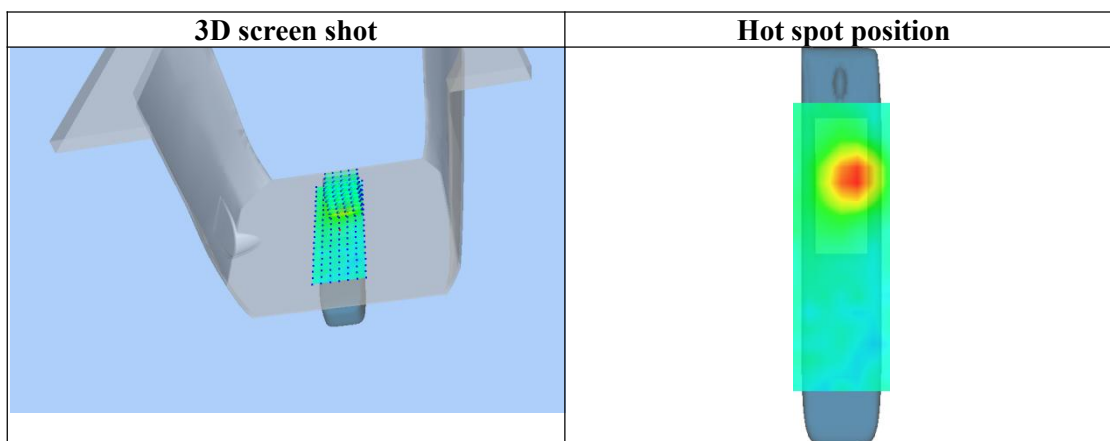
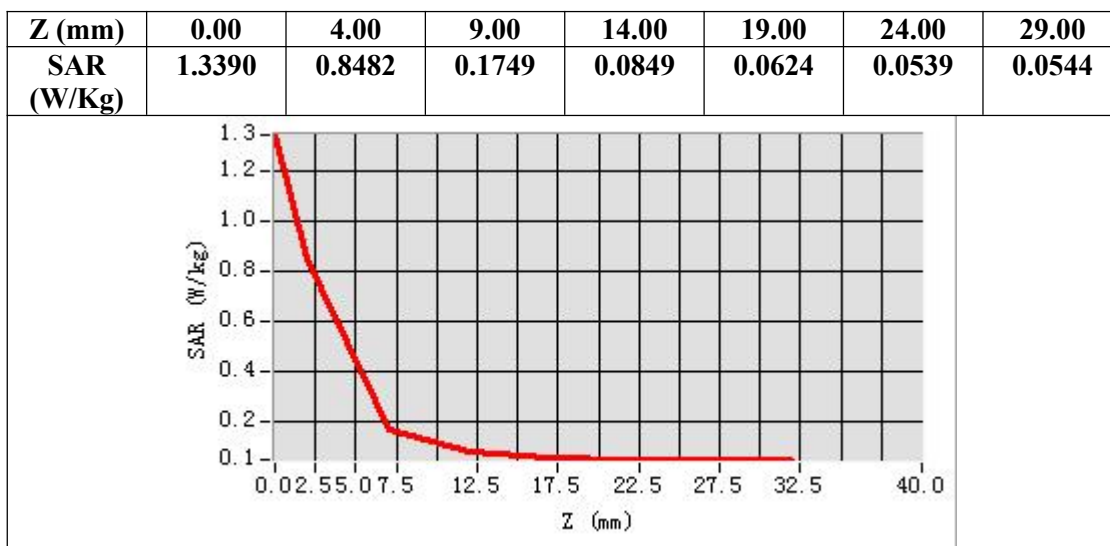
**Maximum location: X=8.00, Y=-32.00**  
**SAR Peak: 1.405 W/kg**

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<b>SAR 10g (W/Kg)</b>	0.218861
<b>SAR 1g (W/Kg)</b>	0.542900



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**Test Laboratory: AGC Lab**  
**802.11a Mid-Edge Top**  
**DUT: Car Diagnostic Tool; Type: CR Eagle**

**Date: Sep. 21, 2024**

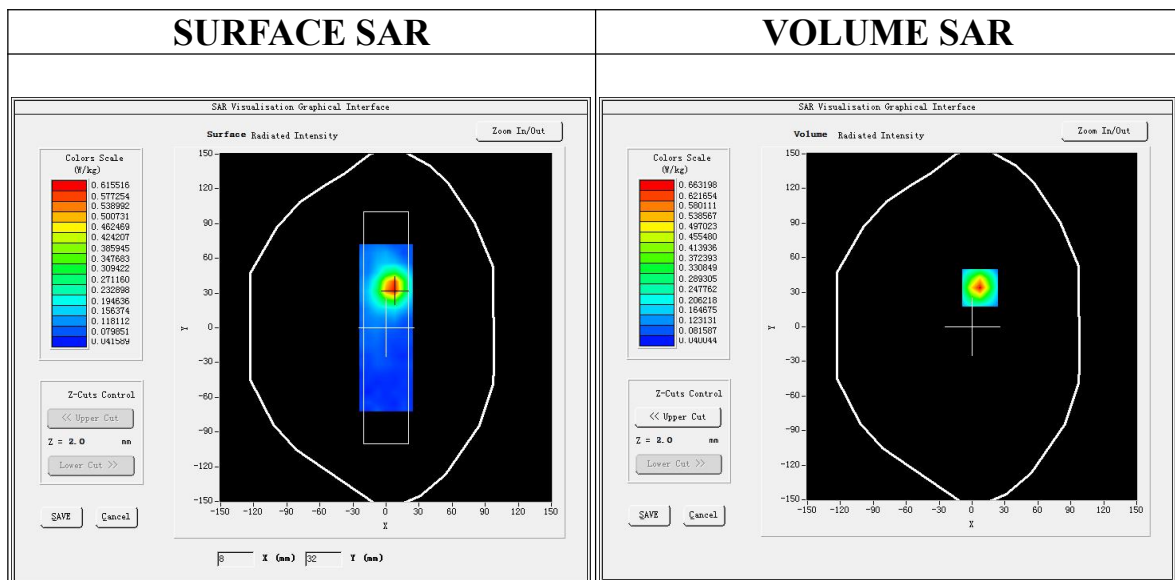
Communication System: Wi-Fi; Communication System Band: 802.11a; Duty Cycle: 1:1; Conv.F=1.53;  
Frequency: 5280 MHz; Medium parameters used:  $f = 5200$  MHz;  $\sigma = 4.72$  mho/m;  $\epsilon_r = 35.52$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;  
Phantom section: Flat Section  
Ambient temperature (°C):22.9, Liquid temperature (°C): 22.4

SATIMO Configuration:

- Probe: SSE2; Calibrated: Apr 30, 2024; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4\_02\_35

**Configuration/802.11a Mid-Edge Top /Area Scan:** Measurement grid: dx=8mm, dy=8mm  
**Configuration/802.11a Mid-Edge Top /Zoom Scan:** Measurement grid: dx=4mm,dy=4mm, dz=2mm;

<b>Area Scan</b>	dx=8mm dy=8mm, h= 5.00 mm
<b>ZoomScan</b>	7x7x12,dx=4mm dy=4mm dz=2mm
<b>Phantom</b>	SAM twin phantom
<b>Device Position</b>	Edge Top
<b>Band</b>	5300MHz
<b>Channels</b>	Middle
<b>Signal</b>	Crest factor: 1.0

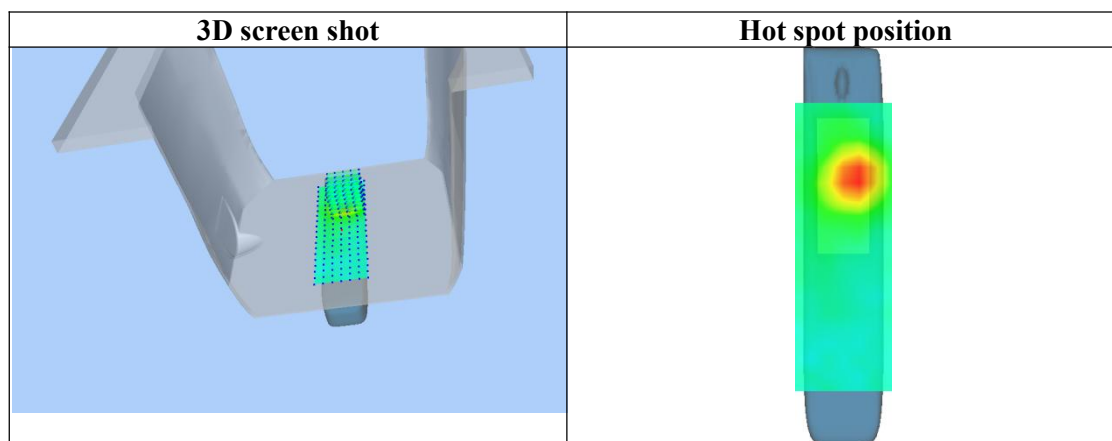
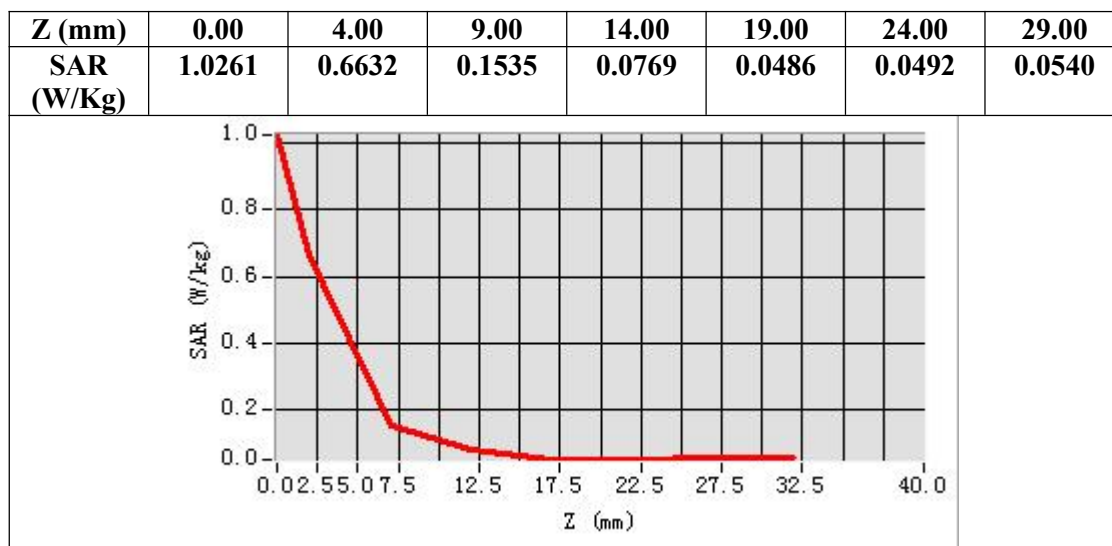


**Maximum location: X=8.00, Y=32.00**  
**SAR Peak: 0.356 W/kg**

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<b>SAR 10g (W/Kg)</b>	<b>0.170924</b>
<b>SAR 1g (W/Kg)</b>	<b>0.497776</b>



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**Test Laboratory: AGC Lab**  
**802.11n20 High-Edge Top**  
**DUT: Car Diagnostic Tool; Type: CR Eagle**

**Date: Sep. 21, 2024**

Communication System: Wi-Fi; Communication System Band: 802.11n20; Duty Cycle: 1:1; Conv.F=1.53;  
Frequency: 5825 MHz; Medium parameters used:  $f = 5800$  MHz;  $\sigma = 5.25$  mho/m;  $\epsilon_r = 34.87$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;  
Phantom section: Flat Section  
Ambient temperature (°C):22.9, Liquid temperature (°C): 22.4

**SATIMO Configuration:**

- Probe: SSE2; Calibrated: Apr 30, 2024; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4\_02\_35

**Configuration/802.11n20 High-Edge Top /Area Scan:** Measurement grid: dx=8mm, dy=8mm  
**Configuration/802.11n20 High-Edge Top /Zoom Scan:** Measurement grid: dx=4mm,dy=4mm, dz=2mm;

<b>Area Scan</b>	dx=8mm dy=8mm, h= 5.00 mm
<b>ZoomScan</b>	7x7x12,dx=4mm dy=4mm dz=2mm
<b>Phantom</b>	SAM twin phantom
<b>Device Position</b>	Edge Top
<b>Band</b>	5800MHz
<b>Channels</b>	High
<b>Signal</b>	Crest factor: 1.0

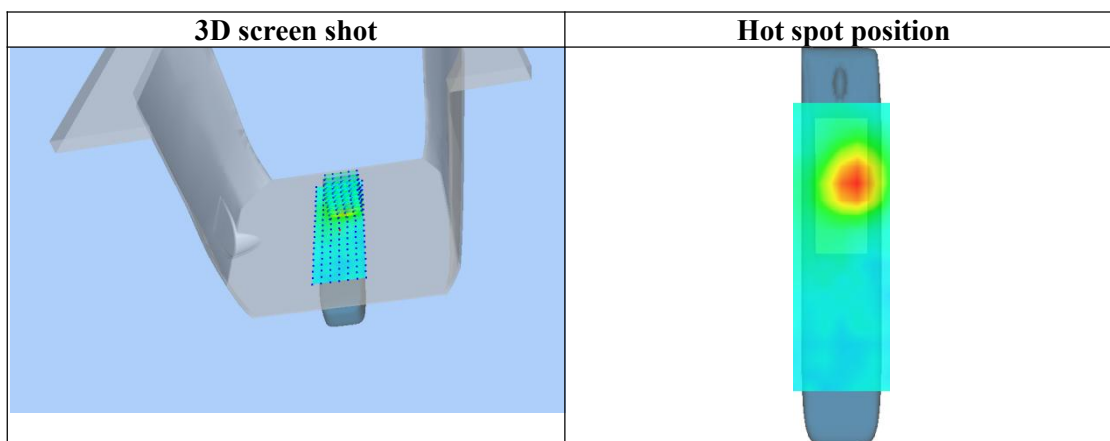
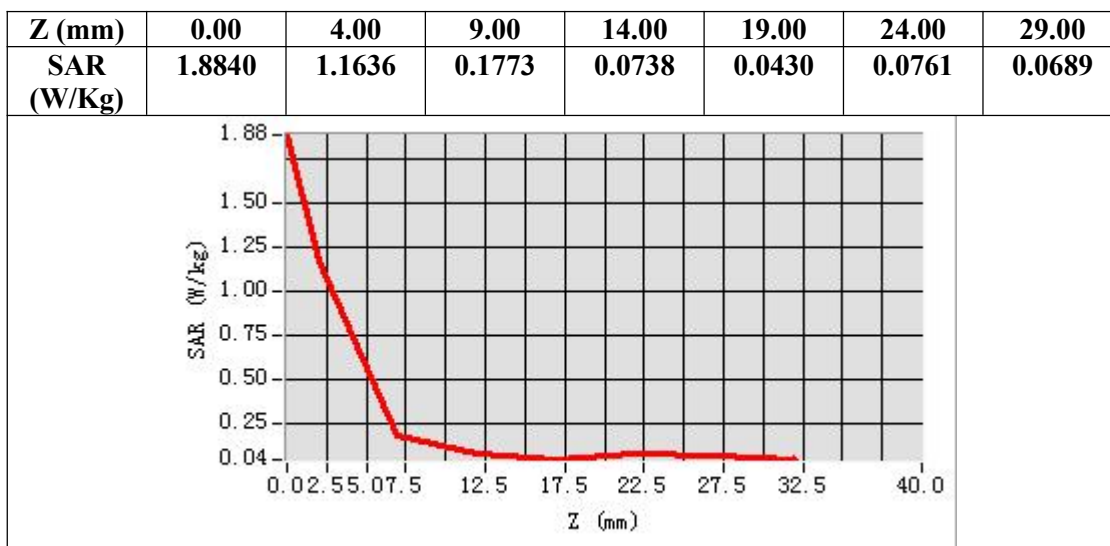


**Maximum location: X=8.00, Y=32.00**  
**SAR Peak: 1.976 W/kg**

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<b>SAR 10g (W/Kg)</b>	<b>0.268579</b>
<b>SAR 1g (W/Kg)</b>	<b>0.732128</b>



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## APPENDIX C. TEST SETUP PHOTOGRAPHS

Body Back\_0cm



Edge Top\_0cm



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Edge Left\_0cm



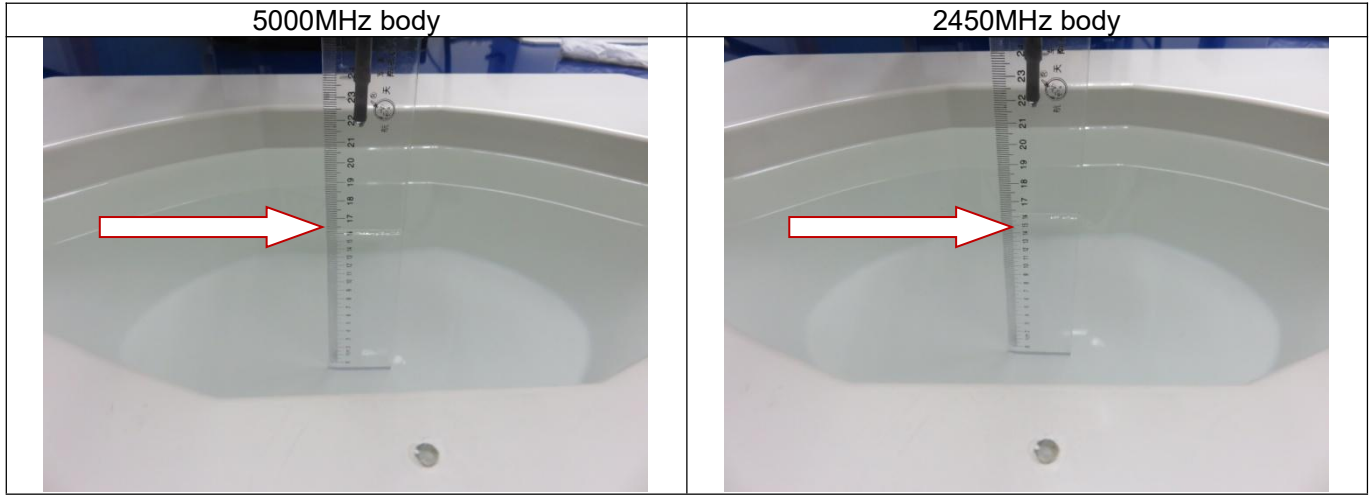
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## DEPTH OF THE LIQUID IN THE PHANTOM—ZOOM IN

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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3. The Company shall not be called or be liable to be called to give evidence or testimony on the Report in a court of law without its prior written consent, unless required by the relevant governmental authorities, laws or court orders.
4. In the event of the improper use of the report as determined by the Company, the Company reserves the right to withdraw it, and to adopt any other additional remedies which may be appropriate.
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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