

SAR Test Report

Report No.: AGC02787240801FH01

FCC ID : YMX-EC638B

APPLICATION PURPOSE: Original Equipment

PRODUCT DESIGNATION: Massage Chair

BRAND NAME : N/A

MODEL NAME : EC-638B, CZ-800, Quantum

APPLICANT: XIAMEN COMFORT SCIENCE & TECHNOLOGY GROUP CO., LTD

DATE OF ISSUE : Jan. 09, 2025

IEEE Std. 1528:2013

STANDARD(S) : FCC 47 CFR Part 2§2.1093

IEEE Std C95.1 ™-2005

REPORT VERSION: V1.0

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



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Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Jan. 09, 2025	Valid	Initial Release



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	Test Report				
Applicant Name	XIAMEN COMFORT SCIENCE & TECHNOLOGY GROUP CO., LTD				
Applicant Address	(5/F) NO.168, QIANPU ROAD, SIMING DISTRICT, XIAMEN, Fujian CHINA				
Manufacturer Name	XIAMEN HEALTHCARE ELECTRONIC CO., LTD.				
Manufacturer Address	65-66#, 62-63# BUILDING, SIMING ZONE, TONGAN INDUSTRIAL DISTRICT, XIAMEN CITY, FUJIAN PROVINCE, P.R. CHINA				
Factory Name	XIAMEN HEALTHCARE ELECTRONIC CO., LTD.				
Factory Address	65-66#, 62-63# BUILDING, SIMING ZONE, TONGAN INDUSTRIAL DISTRICT, XIAMEN CITY, FUJIAN PROVINCE, P.R. CHINA				
Product Designation	Massage Chair				
Brand Name	N/A				
Test Model	EC-638B				
Series Model	CZ-800, Quantum				
Different Description	All the models are the same, only different in model names.				
EUT Voltage	DC 24V by adapter				
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. 01, 2024				
Test Date	Sep. 02, 2024				
Report Template	AGCRT-US-2.4G/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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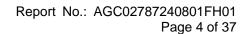




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1. SUMMARY OF MAXIMUM SAR VALUE

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

Fraguency Band	Highest Reported 1g-SAR(W/kg)	SAR Test Limit (W/kg)
Frequency Band	Body-worn(with 10mm separation)	
WIFI 2.4G	0.731	1.6
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 248227 D01 802 11 Wi-Fi SAR v02r02
- KDB 616217 D04 SAR evaluation requirements for laptop, notebook, notebook and tablet computers



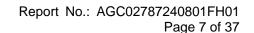
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2. GENERAL INFORMATION

2.1. EUT Description

General Information					
Product Designation	Massage Chair				
Test Model	EC-638B				
Sample ID	240827081				
Hardware Version	1.0				
Software Version	1.0				
Device Category	Portable				
RF Exposure Environment	Uncontrolled				
Antenna Type	PIFA				
2.4GHz WIFI					
WIFI Specification	⊠802.11b ⊠802.11g ⊠802.11n(HT20) ⊠802.11n(HT40)				
Operation Frequency	2412~2462MHz				
Max Average Power	19.81dBm				
Antenna Gain	2.0dBi				
Power Supply	DC 24V 3A From Adapter				
Adapter Parameters	Input: AC100-120V, 50/60Hz Output: 24V 3A				
Bluetooth					
Bluetooth Version	□3.0 □4.0 □4.1 □4.2 □5.0 □5.1 □5.2				
Operation Frequency	2402~2480MHz				
Type of modulation	⊠GFSK ⊠∏/4-DQPSK ⊠8-DPSK				
Peak Power	1.51dBm				
Antenna Gain	2.49dBi				
	Note: 1.The sample used for testing is end product.				
The test sample	The test sample has no any deviation to the test method of standard mentioned in page 1.				

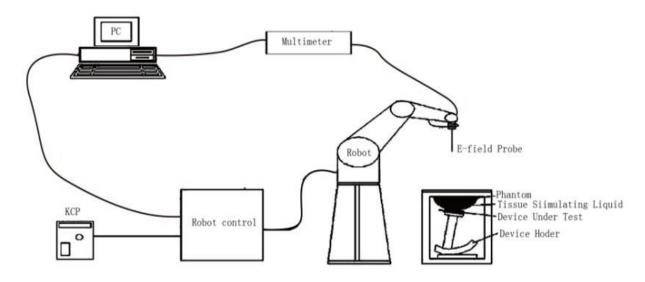
Product	Type		
Floduct	□ Production unit	☐ Identical Prototype	





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

isoli opic E-rieiu	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 measureme (e.g., very strong gradient fields). Only compliance testing for frequencies up 30%.	probe which enables

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

 $\hfill\square$ Low ELF interference (the closed metallic

construction shields against motor control fields)

□ 6-axis controller



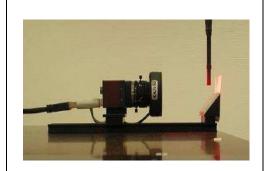


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3.4. Video Positioning System

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.

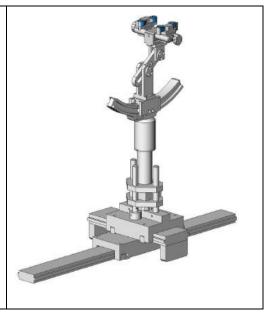


3.5. Device Holder

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.





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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:

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

$$SAR = c_h \frac{dT}{dt}\Big|_{t=0}$$

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;

 $\rho \qquad \qquad \text{is the density of the tissue in kilograms per cubic metre}; \\$

ch is the heat capacity of the tissue in joules per kilogram and Kelvin;

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



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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	½·δ·ln(2) ± 0.5 mm	
Maximum probe angle from probe axis to phantom surface normal at the measurement location	30° ± 1°	20° ± 1°	
	≤2 GHz: ≤15 mm 2 – 3 GHz: ≤12 mm	3 – 4 GHz: ≤ 12 mm 4 – 6 GHz: ≤ 10 mm	
Maximum area scan spatial resolution: Δx _{Area} , Δy _{Area}	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.



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

Maximum zoom scan spatial resolution: Δx _{Zoom} , Δy _{Zoom}			≤ 2 GHz: ≤ 8 mm 2 – 3 GHz: ≤ 5 mm*	3 – 4 GHz: ≤ 5 mm* 4 – 6 GHz: ≤ 4 mm*
Maximum zoom scan spatial resolution, normal to phantom surface	uniform grid: $\Delta z_{Zoom}(n)$		≤ 5 mm	3 – 4 GHz: ≤ 4 mm 4 – 5 GHz: ≤ 3 mm 5 – 6 GHz: ≤ 2 mm
	graded	Δz _{Zoom} (1): between 1 st two points closest to phantom surface	≤ 4 mm	3 – 4 GHz: ≤ 3 mm 4 – 5 GHz: ≤ 2.5 mm 5 – 6 GHz: ≤ 2 mm
	grid $\Delta z_{Zoom}(n>1)$: between subsequent points		$\leq 1.5 \cdot \Delta z_{Zoom}(n-1)$	
Minimum zoom scan volume	X. V. Z		≥ 30 mm	3 – 4 GHz: ≥ 28 mm 4 – 5 GHz: ≥ 25 mm 5 – 6 GHz: ≥ 22 mm

Note: δ is the penetration depth of a plane-wave at normal incidence to the tissue medium; see draft standard IEEE P1528-2011 for details.

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.

^{*} When zoom scan is required and the <u>reported</u> SAR from the area scan based 1-g SAR estimation procedures of KDB 447498 is ≤ 1.4 W/kg, ≤ 8 mm, ≤ 7 mm and ≤ 5 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.



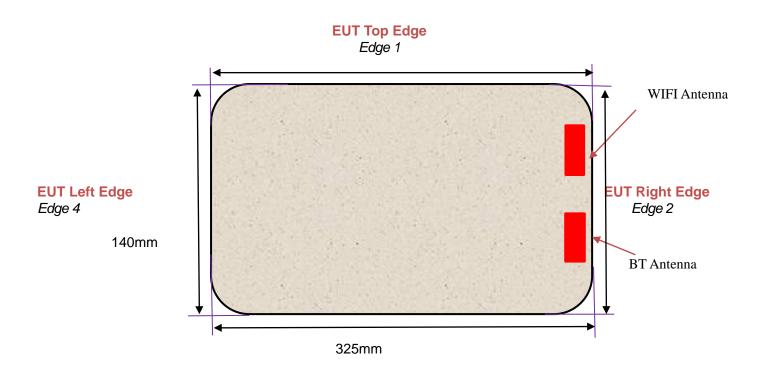
4.3. RF Exposure Conditions

Test Configuration and setting:

The EUT has two antennas and cannot transmit simultaneously.

For SAR testing, the EUT is configured with the WLAN continuous TX tool through qualcomm software.

Antenna Location: (the front view)



EUT Bottom Edge Edge 3



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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 ≤ 50 mm, the 1-g and 10-g SAR test exclusion thresholds are determine d by the following:

[(max. power of channel, including tune-up tolerance, mW) / (min. test separation distance, mm)] • [$\sqrt{f(GHz)}$] \leq 3.0 for1-g SAR, and \leq 7.5 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) {[Power allowed at numeric threshold for 50 mm in step a)] + [(test separation distance 50 mm)•(f(MHz)/150)]} mW, for 100 MHz to 1500 MHz
- 2) {[Power allowed at numeric threshold for 50 mm in step a)] + [(test separation distance − 50 mm)•10]} mW, for > 1500 MHz and ≤ 6 GHz

1-g SAR test exclusion thresholds for WIFI							
Test position							
	SAR test exclusion thresholds(mW)	137.17	29.28	137.17	2662.35		
2.4 GHz WIFI	SAR Max. Avg. Burst Power(mW)	95.72	95.72	95.72	95.72		
	SAR required (Yes/No)	No	Yes	No	No		

1-g SAR test exclusion thresholds for BT							
Test Mode	Test position	Edge 1 (80mm)	Edge 2 (15mm)	Edge 3 (60mm)	Edge 4 (310mm)		
	SAR test exclusion thresholds(mW)	157.31	29.28	117.04	2662.35		
ВТ	SAR Max. Avg. Burst Power(mW)	1.42	1.42	1.42	1.42		
	SAR required (Yes/No)	No	No	No	No		

CONCLUSION:

1. Edge2.of WIFI SAR is required.



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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
2450 Head	71.88	0.16	0.0	7.99	0.0	19.97	0.0

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	he	ad	body		
(MHz)	εr	σ (S/m)	εr σ (S/m)		
2450	39.2	1.80	39.2	1.80	

($\varepsilon r = relative permittivity, \sigma = conductivity and \rho = 1000 kg/m3$



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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.	Dielectric Para	Tissue	T							
	(MHz)	εr39.2(35.28-43.12)	δ[s/m]1.80(1.62-1.98)	Temp [°C]	Test time						
Head	2412	40.47	1.75								
	2437	39.87	1.83	24.2	Son 02 2024						
	2450	39.26	1.79	21.2	Sep. 02,2024						
	2462	39.19	1.83								



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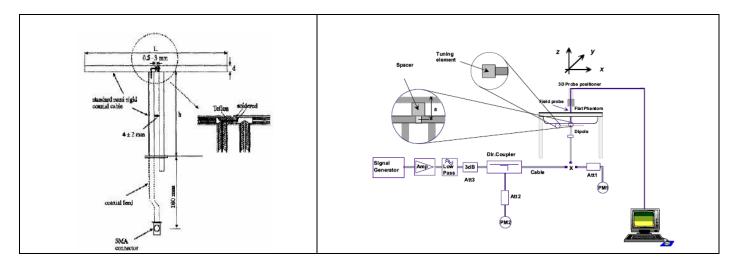
6. SAR SYSTEM CHECK PROCEDURE

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.

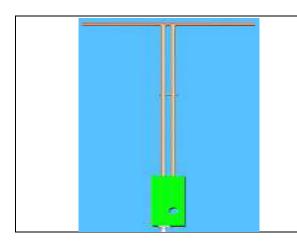
The system check verifies that the system operates within its specifications. It's performed daily or before every SAR measurement. The system check uses normal SAR measurement in the flat section of the phantom with a matched dipole at a specified distance. The system check setup is shown as below.





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6.2. SAR System Check 6.2.1. Dipoles



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.

Frequency	L (mm)	h (mm)	d (mm)
2450MHz	51.5	30.4	3.6

6.2.2. System Check Result

System Performance Check at 2450MHz for Head									
Validation Kit: SN 29/15 DIP 2G450-393									
Frequency		get (W/kg)		ce Result 0%)		alized (W/kg)	Tissue Temp.	Test time	
[MHz]	1g	10g	1g	10g	1g	10g	[°C]		
2450	54.32	24.25	48.888-59.752	21.825-26.675	53.051	24.592	21.2	Sep. 02,2024	

Note:

(1) We use a CW signal of 20dBm for system check, and then all SAR value are normalized to 1W forward power. The result must be within $\pm 10\%$ of target value.



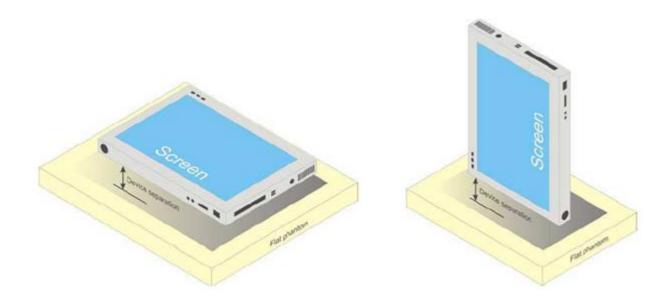
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7. EUT TEST POSITION

This EUT was tested in Body back, and Edge 2(Right).

7.1. Body Worn 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 10mm.





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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

Test Site	Attestation of Global Compliance (Shenzhen) Co., Ltd
Location	1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China
Designation Number	CN1259
FCC Test Firm Registration Number	975832
A2LA Cert. No.	5054.02
Description	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.
Multimeter	Keithley 2000	1350784	N/A	May. 24, 2024	May. 23, 2025
SAR Software	SATIMO-OpenSAR	N/A	OpenSAR V4_02_32	N/A	N/A
Dipole	SATIMO SID2450	SN 29/15 DIP 2G450-393	N/A	Apr. 28,2022	Apr. 27,2025
Signal Generator	Agilent-E4438C	US41461365	V5.03	May. 24, 2024	May. 23, 2025
Vector Analyzer	Agilent / E4440A	MY44303916	N/A	May. 28, 2024	May. 27, 2025
Network Analyzer	Rhode & Schwarz ZVL6	SN101443	3.2	Sep. 21, 2023	Sep. 20, 2024
Attenuator	Warison /WATT-6SR1211	S/N:WRJ34AYM2F1	N/A	June 06, 2024	June 05, 2025
Attenuator	Mini-circuits / VAT-10+	31405	N/A	June 06, 2024	June 05, 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, 2026
Directional Couple	Werlatone/ C6026-10	SN99482	N/A	Feb. 01, 2024	Jan. 31, 2026
Power Sensor	NRP-Z21	1137.6000.02	N/A	Sep. 05, 2023	Sep. 04, 2024
Power Sensor	NRP-Z23	100323	N/A	Jun. 05, 2024	Jun. 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

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
Measurement System		1 (1 70)	Diot.				(1 /0)	(1 70)	
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	E2.5	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	∞
Test sample Related									
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	8
SAR scaling	E.6.5	5	R	1.732	1	1	2.89	2.89	∞
Phantom and tissue parameter	s								
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	М
Liquid permittivity measurement	E.3.3	5	N	1	0.23	0.26	1.150	1.300	М
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	



SATIMO Uncertainty- 2023-EPGO-414										
System	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	
Measurement System										
Probe calibration	E.2.1	7.000	N	1	1	1	7.000	7.000	8	
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	E2.5	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	∞	
System validation source										
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	∞	
Phantom and set-up										
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	М	
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	М	
Combined Standard Uncertainty			RSS				10.572	10.387		
Expanded Uncertainty (95% Confidence interval)			K=2				21.143	20.775		



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Sy	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	
Measurement System										
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	√3	0	0	0	0	∞	
Hemispherical Isotropy	E.2.2	1.695	R	√3	0	0	0	0	×	
Boundary effect	E.2.3	1.000	R	√3	0	0	0	0	×	
Linearity	E.2.4	2.250	R	√3	0	0	0	0	∞	
System detection limits	E.2.4	1	R	√3	0	0	0	0	∞	
Modulation response	E2.5	3	R	√3	0	0	0	0	∞	
Readout Electronics	E.2.6	0.021	N	√3	0	0	0	0	∞	
Response Time	E.2.7	0	R	√3	0	0	0	0	_∞	
Integration Time	E.2.8	1.4	R	√3	0	0	0	0	∞	
RF ambient conditions-Noise	E.6.1	3	R	√3	0	0	0	0	∞	
RF ambient conditions-reflections	E.6.1	3	R	√3	0	0	0	0	∞	
Probe positioner mechanical tolerance	E.6.2	1.4	R	√3	1	1	0.81	0.81	∞	
Probe positioning with respect to phantom shell	E.6.3	1.4	R	√3	1	1	0.81	0.81	∞	
Extrapolation, interpolation, and integrations algorithms for max. SAR evaluation	E.5	2.3	R	√3	0	0	0	0.00	∞	
System check source (dipole)										
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	√3	1	1	2.89	2.89	∞	
Dipole axis to liquid distance	8,E.6.6	2	R	√3	1	1	1.15	1.15	∞	
Phantom and tissue parameter	s									
Phantom shell uncertainty—shape, thickness, and permittivity	E.3.1	4	R	√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	М	
Liquid conductivity—temperature uncertainty	E.3.4	2.5	R	√3	0.78	0.71	1.13	1.02	∞	
Liquid permittivity—temperature uncertainty	E.3.4	2.5	R	√3	0.23	0.26	0.33	0.38	М	
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

WIF

		2.4GWIFI		
Mode	Channel Number	Frequency (MHz)	Output Power (dBm)	Output Power (mW)
	1	2412	19.81	95.72
802.11b	6	2437	15.53	35.73
	11	2462	14.01	25.18
	1	2412	10.07	10.16
802.11g	6	2437	17.91	61.80
	11	2462	17.62	57.81
	1	2412	16.07	40.46
802.11 n-HT20	6	2437	16.73	47.10
	11	2462	16.16	41.30
	3	2422	16.11	40.83
802.11 n-HT40	6	2437	16.11	40.83
	9	2452	16.04	40.18

BT								
Mode	Channel Number	Frequency (MHz)	Average Power (dBm)	Output Power (mW)				
	0	2402	0.87	1.22				
GFSK(1Mbps)	39	2441	0.92	1.24				
	78	2480	0.84	1.21				
	0	2402	1.06	1.28				
π/4-QPSK(2Mbps)	39	2441	1.12	1.29				
	78	2480	1.03	1.27				
	0		1.17	1.31				
8DPSK(3Mbps)	39	2441	1.21	1.32				
	78	2480	1.10	1.29				

BLE							
Mode	Channel Number	Frequency (MHz)	Average Power (dBm)	Output Power (mW)			
	0	2402	1.45	1.40			
GFSK(1Mbps)	19	2440	1.51	1.42			
	39	2480	1.45	1.40			



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13. TEST RESULTS

13.1. SAR Test Results Summary 13.1.1. Test position and configuration

- 1. The EUT is a Tablet
- 2. Lab use the head liquid with a separation of 10mm at flat phantom to test;
- 3. For SAR testing, the device was controlled by software to test at reference fixed frequency points.

13.1.2. Operation Mode

- 1. Per KDB 447498 D01 v06 ,for each exposure position, if the highest 1-g SAR is ≤ 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 ≥0.8W/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 0.8W/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 ≥1.45 W/kg.
 - (3) Perform a third repeated measurement only if the original, first and second repeated measurement is ≥1.5 W/kg and ratio of largest to smallest SAR for the original, first and second measurement is ≥ 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 ≤1.2W/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 ≤ 1.2 W/kg, SAR is not required for that subsequent test configuration.
- 5. Per KDB616217 D04 v01r02, The antennas in tablets are typically located near the back (bottom) surface
 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.



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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).

- 6. Maximum Scaling SAR in order to calculate the Maximum SAR values to test under the standard Peak Power, Calculation method is as follows:

 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. 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 ≤ 50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:

[(max. power of channel, including tune-up tolerance, mW) / (min. test separation distance, mm)] • [$\sqrt{f(GHz)}$] ≤ 3.0 for 1-g SAR, and ≤ 7.5 for 10-g extremity SAR³⁰, where

- f(GHz) is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation³¹
- 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.

If the test separation distance is <5mm, 5mm is used for excluded SAR calculation.



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13.1.3. Test Result

SAR MEASUREMENT									
Depth of Liquid (cr		Relative H	Relative Humidity (%):58.7						
Product: Massage	Chair								
Test Mode: 802.11	lb 2.4G WI	FI							
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	1	2412	1.91	0.299	20	19.81	0.312	1.6
Edge 2(Right)	DTS	1	2412	3.10	0.700	20	19.81	0.731	1.6
Edge 2(Right)	DTS	6	2437	-1.49	0.621	16	15.53	0.692	1.6
Edge 2(Right)	DTS	11	2462	-1.01	0.638	14.5	14.01	0.714	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.
- The test separation of all above table(body part) is 10mm.
- Plots are only shown for the bold markered worst case SAR results.



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APPENDIX A. SAR SYSTEM CHECK DATA

Test Laboratory: AGC Lab Date: Sep 02, 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; $\sigma = 1.79$ mho/m; $\epsilon = 39.26$; $\rho = 1000$ kg/m³; Phantom section: Flat Section; Input Power=20dBm

Ambient temperature (°C):21.4, Liquid temperature (°C):21.2

SATIMO Configuration

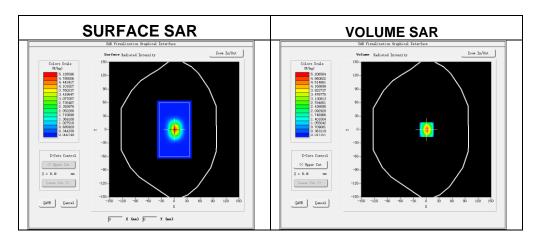
• Probe: SSE2; Calibrated: Apr 30, 2024; Serial No.: 2023-EPGO-414

• Sensor-Surface: 4mm (Mechanical Surface Detection)

· Phantom: SAM twin phantom

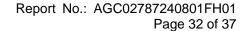
· Measurement SW: OpenSAR V4_02_35

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



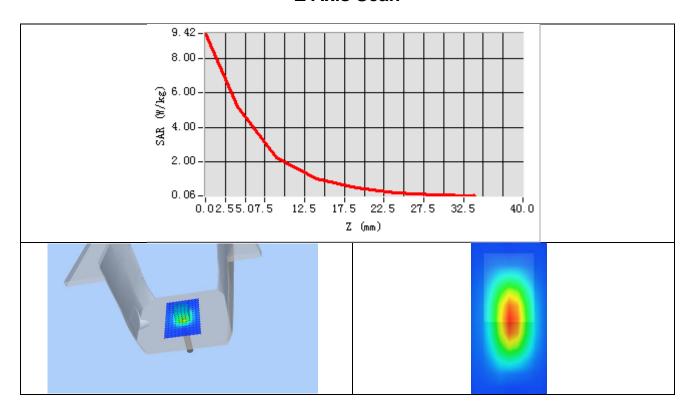
Maximum location: X=1.00, Y=0.00

SAR 10g (W/Kg)	2.459226
SAR 1g (W/Kg)	5.305144





Z Axis Scan





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APPENDIX B. SAR MEASUREMENT DATA

Test Laboratory: AGC Lab Date: Sep 02, 2024

802.11b 2.4G WIFI_ANT_B Body- Back DUT: Massage Chair; Type: EC-638B

Communication System: Wi-Fi; Communication System Band: 802.11b; Duty Cycle: 1:1; Conv.F=2.16;

Frequency: 2412 MHz; Medium parameters used: f = 2450 MHz; $\sigma = 1.75$ mho/m; $\epsilon r = 40.47$; $\rho = 1000$ kg/m³;

Phantom section: Flat Section

Ambient temperature (°C):21.4, Liquid temperature (°C):21.2

SATIMO Configuration:

• Probe: SSE2; Calibrated: Apr 30, 2024; Serial No.: 2023-EPGO-414

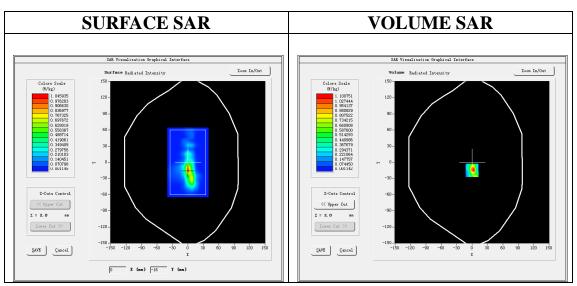
• Sensor-Surface: 4mm (Mechanical Surface Detection)

Phantom: SAM twin phantom

· Measurement SW: OpenSAR V4 02 35

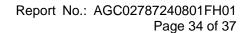
Configuration/802.11b Low- Body- Right /Area Scan: Measurement grid: dx=8mm, dy=8mm Configuration/802.11b Low - Body- Right /Zoom Scan: Measurement grid: dx=5mm, dy=5mm, dz=5mm;

and the second of the great course in substitution of the great ax committee great ax					
Area Scan	surf_sam_plan.txt, h= 5.00 mm				
ZoomScan	7x7x7,dx=5mm dy=5mm dz=5mm				
Phantom	Validation plane				
Device Position	Body Right				
Band	2412MHz				
Channels	Low				
Signal	Crest factor: 1.0				



Maximum location: X=0.00, Y=-15.00 SAR Peak: 2.14 W/kg

SAR 10g (W/Kg)	0.263900
SAR 1g (W/Kg)	0.699622





Z (m m) SA R (W/ Kg)	0.00 1.86 88	2.00 1.10 08	4.00 0.54 91	6.00 0.27 19	8.00 0.12 43	10.0 0 0.05 58	12.0 0 0.01 41	14.0 0 0.00 22	16.0 0 0.00 40	18.0 0 0.00 12	20.0 0 0.00 12	22.0 0 0.00 32
		1.8 1.5 2Wg (M/Wg) 1.0 0.7 0.5 0.0	0- 5- 0- 5- 0- 5-	4	5 8	10 12 Z (14 16	18 20) 22 2	4 26		

3D screen shot	Hot spot position		



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APPENDIX C. TEST SETUP PHOTOGRAPHS

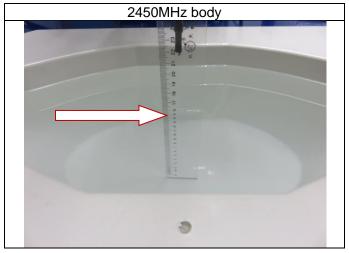
Refer to Attached files.



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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----



Conditions of Issuance of Test Reports

- 1. All samples and goods are accepted by the Attestation of Global Compliance (Shenzhen) Co., Ltd (the "Company") solely for testing and reporting in accordance with the following terms and conditions. The company provides its services on the basis that such terms and conditions constitute express agreement between the company and any person, firm or company requesting its services (the "Clients").
- 2. Any report issued by Company as a result of this application for testing services (the "Report") shall be issued in confidence to the Clients and the Report will be strictly treated as such by the Company. It may not be reproduced either in its entirety or in part and it may not be used for advertising or other unauthorized purposes without the written consent of the Company. The Clients to whom the Report is issued may, however, show or send it, or a certified copy thereof prepared by the Company to its customer, supplier or other persons directly concerned. The Company will not, without the consent of the Clients, enter into any discussion or correspondence with any third party concerning the contents of the Report, unless required by the relevant governmental authorities, laws or court orders.
- 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.