

SAR Test Report

Report No.: AGC14075240805FH01

| PRODUCT DESIGNATION | : | Professional Diagnostic Tool |
|-----------------------|---|--|
| BRAND NAME | : | TOPDON |
| MODEL NAME | : | ArtiDiag800 BT 2 |
| APPLICANT | : | TOPDON TECHNOLOGY Co., Ltd. |
| DATE OF ISSUE | : | Aug. 26,2024 |
| STANDARD(S) | : | IEEE Std. 1528:2013 FCC 47 CFR Part 2§2.1093 IEEE Std C95.1 ™-2005 |
| REPORT VERSION | : | V1.0 |

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







Report Revise Record

| Report Version | Revise Time | Issued Date | Valid Version | Notes |
|----------------|-------------|--------------|---------------|-----------------|
| V1.0 | / | Aug. 26,2024 | Valid | Initial Release |



| Test Report | | | | | |
|------------------------------|---|--|--|--|--|
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| Factory Name | THINKCAR TECH CO., LTD. | | | | |
| Factory Address | 2606, building 4, phase II, Tianan Yungu, Gangtou community, Bantian Longgang District, Shenzhen | | | | |
| Product Designation | Professional Diagnostic Tool | | | | |
| Brand Name | TOPDON | | | | |
| Model Name | ArtiDiag800 BT 2 | | | | |
| Series Models | N/A | | | | |
| Declaration of Difference | N/A | | | | |
| EUT Voltage | DC 7.6V by battery | | | | |
| Applicable Standard | IEEE Std. 1528:2013 FCC 47 CFR Part 2§2.1093 IEEE Std C95.1 ™-2005 | | | | |
| Date of receipt of test item | Aug. 06,2024 | | | | |
| Test Date | Aug. 14,2024 to Aug. 16,2024 | | | | |
| 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.

Thea Huang Prepared By Thea Huang Aug. 26, 2024 (Project Engineer) Reviewed By Calvin Liu Aug. 26, 2024 (Reviewer) Max Zhang Approved By

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Aug. 26, 2024



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1. SUMMARY OF MAXIMUM SAR VALUE

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

| Frequency Band | Highest Reported 1g-SAR(W/kg) Body-worn(with 0cm separation) | SAR Test Limit (W/kg) | |
|-----------------|--|--------------------------|--|
| WIFI 2.4G | 0.202 | | |
| WIFI 5.2G | 0.197 | 1.6 | |
| WIFI 5.8G | 0.265 | | |
| 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 evaluation requirements for laptop, notebook, notebook and tablet computers

• KDB 248227 D01 802 11 Wi-Fi SAR v02r02



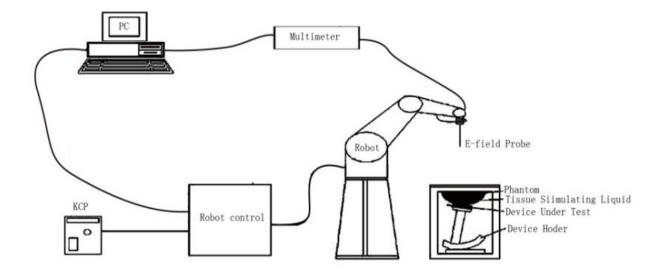
2. GENERAL INFORMATION

2.1. EUT Description

| General Information | | | | | |
|---|---|--|--|--|--|
| Product Designation | Professional Diagnostic Tool | | | | |
| Test Model | ArtiDiag800 BT 2 | | | | |
| Sample ID | 240827080 | | | | |
| Hardware Version | BSK-Y8-V3 | | | | |
| Software Version | V1.1.6 | | | | |
| Device Category | Portable | | | | |
| RF Exposure Environment | Uncontrolled Environment General Population | | | | |
| Antenna Type | Internal | | | | |
| Bluetooth | | | | | |
| Bluetooth Version | V5.1 | | | | |
| Operation Frequency | 2402~2480MHz | | | | |
| Type of modulation | \square GFSK \square $\pi/4$ -DQPSK \square 8DPSK | | | | |
| Max. Average Power | 5.64dBm | | | | |
| Antenna gain | 4.53dBi | | | | |
| 2.4GHz WIFI | | | | | |
| WIFI Specification | ⊠ 802.11b ⊠ 802.11g ⊠ 802.11n(20) ⊠ 802.11n(40) | | | | |
| Operation Frequency | 2412~2462MHz | | | | |
| Max. Average Power | 9.58dBm | | | | |
| Antenna gain | 4.53dBi | | | | |
| 5 GHz WIFI | | | | | |
| WIFI Specification | ⊠ 802.11a ⊠ 802.11n20 ⊠ 802.11n40 ⊠ 802.11ac20 ⊠ 802.11ac40 ⊠ 802.11ac80 | | | | |
| Operation Frequency | U-NII-1: 5180MHz~5240MHz; U-NII-3: 5745MHz~5825MHz | | | | |
| Max. Average Power | U-NII-1: 10.05dBm; U-NII-3: 10.59dBm | | | | |
| Antenna gain | U-NII-1: 1.52dBi; U-NII-3: 2.05dBi | | | | |
| Accessories | | | | | |
| Brand name: N/A; | | | | | |
| Battery | /oltage : DC 7.6V; | | | | |
| Capacitance: 3150mAh; | | | | | |
| Note: 1.The sample used for testing is end product. | | | | | |
| | has no any deviation to the test method of standard mentioned in page 1. | | | | |
| | Туре | | | | |
| | 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.



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.

| I | | |
|--------------------|---|---------------------|
| 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 |

Isotropic E-Field Probe Specification

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

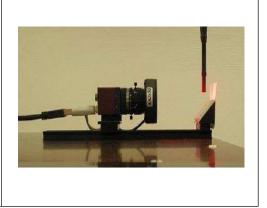


3.4. Video Positioning System

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.

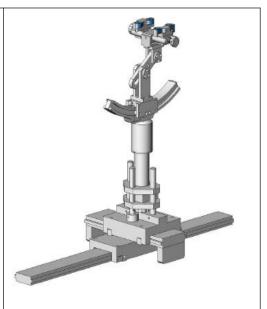


3.5. Device Holder

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

 ϵr =3 and loss tangent δ = 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





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:

F

ρ

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

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

Where

SAR is the specific absorption rate in watts per kilogram;

- 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;
 - 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



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.

| | \leq 3 GHz | > 3 GHz |
|---|--|--|
| Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface | $5 \pm 1 \text{ mm}$ | ¹ / ₂ ·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 measurement plane orientation the measurement resolution of x or y dimension of the test of measurement point on the test | on, is smaller than the above, must be \leq the corresponding levice with at least one |

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

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.



| $\leq 8 \text{ mm}$ $\leq 5 \text{ mm}^*$ | $3 - 4 \text{ GHz} \le 5 \text{ mm}^*$ $4 - 6 \text{ GHz} \le 4 \text{ mm}^*$ | |
|--|--|--|
| nm | 3 – 4 GHz: ≤ 4 mm 4 – 5 GHz: ≤ 3 mm 5 – 6 GHz: ≤ 2 mm | |
| nm | 3 – 4 GHz: ≤ 3 mm 4 – 5 GHz: ≤ 2.5 mm 5 – 6 GHz: ≤ 2 mm | |
| $\leq 1.5 \cdot \Delta z_{Zoom}(n-1)$ | | |
| າກາ | 3 – 4 GHz: ≥ 28 mm 4 – 5 GHz: ≥ 25 mm 5 – 6 GHz: ≥ 22 mm | |
| 1 | mm ne tissue medium; s n based 1-g SAR est resolution may be a | |

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

Step 4: Power Drift Measurement

2 GHz to 3 GHz, 3 GHz to 4 GHz and 4 GHz to 6 GHz.

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

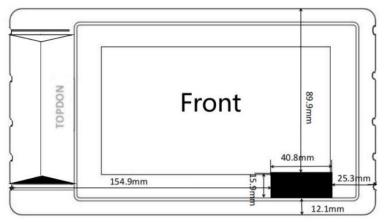
Test Configuration and setting:

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

The EUT have only one Antenna and It supports BT and WIFI function.

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

Antenna Location: (The Front 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) PerKDB616217, 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 | | | | | | |
| WIFI& BT | N/A | 17 | 154.9 | 25.3 | 89.9 | 12.1 |

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 determine d by the following:

[(max. power of channel, including tune-up tolerance, mW) / (min. test separation distance, mm)] • [$\sqrt{f(GHz)}$] ≤ 3.0 for1-g SAR, and ≤ 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 determine d 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 an d ≤ 6 GHz



| | 1-g SAR test exclusion thresholds for WLAN | | | | | | | |
|-----------|--|---------------|------------------------|---------------------|----------------------|----------------------|--|--|
| Test Mode | Test position | Back (5mm) | Edge Left (154.9mm) | Edge Right (5mm) | Edge Top (89.9mm) | Edge Bottom (5mm) | | |
| | SAR test exclusion thresholds(mW) | 10 | 1144.25 | 10 | 494.25 | 10 | | |
| 2.4G BT | SAR Max. Avg. Burst Power(mW) | 3.98 | 3.98 | 3.98 | 3.98 | 3.98 | | |
| | SAR required (Yes/No) | NO | NO | NO | NO | NO | | |
| | SAR test exclusion thresholds(mW) | 10 | 1144.6 | 10 | 494.6 | 10 | | |
| 2.4G WIFI | SAR Max. Avg. Burst Power(mW) | 10 | 10 | 10 | 10 | 10 | | |
| | SAR required (Yes/No) | YES | NO | YES | NO | YES | | |
| | SAR test exclusion thresholds(mW) | 7 | 1114.59 | 7 | 464.59 | 7 | | |
| 5.2G WIFI | SAR Max. Avg. Burst Power(mW) | 11.22 | 11.22 | 11.22 | 11.22 | 11.22 | | |
| | SAR required (Yes/No) | YES | NO | YES | NO | YES | | |
| | SAR test exclusion thresholds(mW) | 6 | 1111.15 | 6 | 461.15 | 6 | | |
| 5.8G WIFI | SAR Max. Avg. Burst Power(mW) | 12.59 | 12.59 | 12.59 | 12.59 | 12.59 | | |
| | SAR required (Yes/No) | YES | NO | YES | NO | YES | | |



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 |
| 5000 Head | 65.52 | 0.0 | 0.0 | 0.0 | 0.0 | 17.24 | 17.24 |



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 | k | oody |
|------------------|------|---------|------|---------|
| (MHz) | ٤r | σ (S/m) | ٤r | σ (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 |
| 2450 | 39.2 | 1.80 | 39.2 | 1.80 |
| 2600 | 39.0 | 1.96 | 39.0 | 1.96 |
| 3000 | 38.5 | 2.40 | 38.5 | 2.40 |
| 5200 | 36.0 | 4.66 | 36.0 | 4.66 |
| 5300 | 35.9 | 4.76 | 35.9 | 4.76 |
| 5600 | 35.5 | 5.07 | 35.5 | 5.07 |
| 5800 | 35.3 | 5.27 | 35.3 | 5.27 |

(ϵr = relative permittivity, σ = conductivity and ρ = 1000 kg/m3



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 | ameters (±10%) | Tissue | - : | | | | | |
| | (MHz) | εr39.2(35.28-43.12) | δ[s/m]1.80(1.62-1.98) | − Temp [ºC] | Test time | | | | | |
| | 2402 | 39.56 | 1.80 | | | | | | | |
| | 2412 | 39.51 | 1.82 | | | | | | | |
| Head | 2437 | 39.45 | 1.84 | | A | | | | | |
| | 2441 | 39.42 | 1.85 | 22.6 | Aug. 14, 2024 | | | | | |
| | 2450 | 39.40 | 1.89 | | 2024 | | | | | |
| | 2462 | 39.34 | 1.90 | | | | | | | |
| | 2480 | 39.32 | 1.93 | | | | | | | |

| | Tissue Stimulant Measurement for 5200MHz | | | | | | | | | |
|------|--|-----------------|--------------------|--------|------------------|--|--|--|--|--|
| | Fr. | Dielectric Para | ameters (±10%) | Tissue | | | | | | |
| | (MHz) | εr | δ[s/m] | Temp | Test time | | | | | |
| 111 | (11112) | 36.0(32.4-39.6) | 4.66(4.194 -5.126) | [°C] | | | | | | |
| Head | 5190 | 35.68 | 4.56 | | A 45 | | | | | |
| | 5200 | 35.53 | 4.60 | 22.3 | Aug. 15, 2024 | | | | | |
| | 5230 | 35.46 | 4.69 | | 2024 | | | | | |

| | Tissue Stimulant Measurement for 5800MHz | | | | | | | | | |
|------|--|--------------------|--------------------|--------|------------------|--|--|--|--|--|
| | Fr. | Dielectric Para | ameters (±10%) | Tissue | | | | | | |
| | (MHz) | εr | δ[s/m] | Temp | Test time | | | | | |
| | (10112) | 35.3 (31.77-38.83) | 5.27 (4.743-5.797) | [°C] | | | | | | |
| Head | 5745 | 35.05 | 5.13 | | | | | | | |
| | 5785 | 34.93 | 5.19 | 22.3 | Aug. 15, 2024 | | | | | |
| | 5800 | 34.85 | 5.20 | 22.3 | 2024 | | | | | |
| | 5825 | 34.77 | 5.29 | | | | | | | |



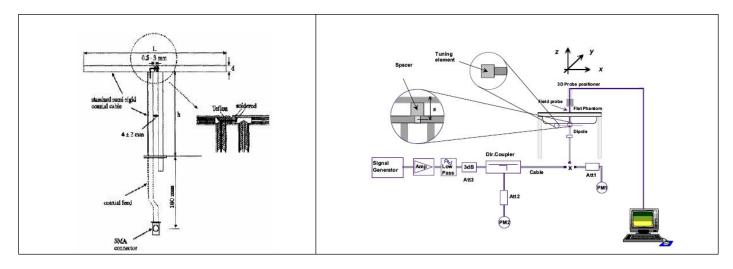
6. SAR SYSTEM CHECK PROCEDURE

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.

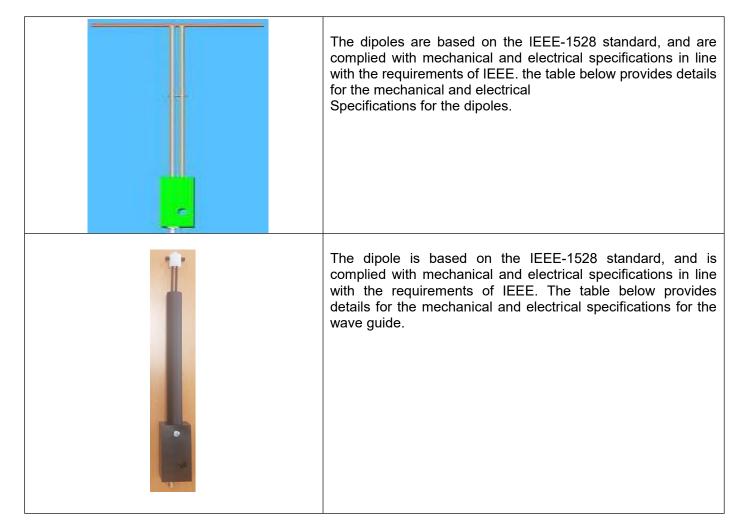
The system check verifies that the system operates within its specifications. It's performed daily or before every SAR measurement. The system check uses normal SAR measurement in the flat section of the phantom with a matched dipole at a specified distance. The system check setup is shown as below.





6.2. SAR System Check

6.2.1. Dipoles



| Frequency | L (mm) | h (mm) | d (mm) |
|-----------|--------|--------|--------|
| 2450MHz | 51.5 | 30.4 | 3.6 |
| 5000MHz | 20.6 | 40.3 | 3.6 |



6.2.2. System Check Result

| System Per | System Performance Check at 2450MHz &5200MHz &5800MHz for Head | | | | | | | | | | | |
|--|--|-------|---------------|---------------|-------|-------|-----------|---------------|--|--|--|--|
| Validation Kit: SN 29/15 DIP 2G450-393 &SN 17/22 DIP 5G000-671 | | | | | | | | | | | | |
| Target Reference Result Tested Tissue | | | | | | | | | | | | |
| Frequency [MHz] | Value(W/kg) | | (± 1 | Value(W/kg) | | Temp. | Test time | | | | | |
| נועורובן | 1g 10g | | 1g | 10g | 1g | 10g | [°C] | | | | | |
| 2450 | 54.32 | 24.25 | 48.888-59.752 | 21.825-26.675 | 53.41 | 23.83 | 22.6 | Aug. 14, 2024 | | | | |
| 5200 | 73.43 | 21.83 | 66.087-80.773 | 19.647-24.013 | 73.11 | 21.22 | 22.3 | Aug. 15, 2024 | | | | |
| 5800 | 75.69 | 22.44 | 68.121-83.259 | 20.196-24.684 | 75.05 | 22.23 | 22.3 | Aug. 15, 2024 | | | | |

Note:

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

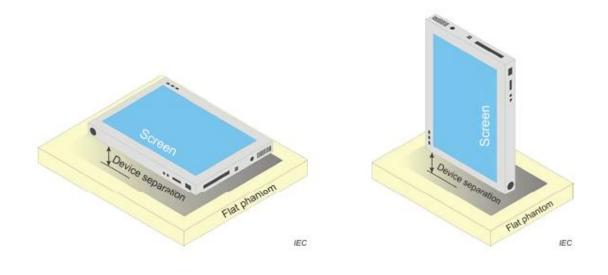


7. EUT TEST POSITION

This EUT was tested in Body back, and Edge Right and Edge Bottom.

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**.





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 |



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 |



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 | Sep. 21, 2023 | Sep. 20, 2024 |
| 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, 2023 | Sep. 04, 2024 |
| Power Viewer | R&S | V2.3.1.0 | N/A | N/A | N/A |
| Calibration standard parts for network sub - port | R&S/ ZV-Z132 | N/A | V2.3.1.0 | Nov. 11, 2023 | Nov. 10, 2024 |

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

1. There is no physical damage on the dipole;

2. System validation with specific dipole is within 10% of calibrated value;

3. Return-loss is within 20% of calibrated measurement;

4. Impedance is within 5Ω of calibrated measurement.



11. MEASUREMENT UNCERTAINTY

| М | easurement | SATIMO Un uncertainty f | | | | 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 | ∞ |
| 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 | 00 |
| 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 | 8 |
| 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 | ∞ |
| SAR scaling | E.6.5 | 5 | R | 1.732 | 1 | 1 | 2.89 | 2.89 | ∞ |
| Phantom and tissue parameter | rs | | | 1 | | | | 1 | 1 |
| 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 | 8 |
| Combined Standard Uncertainty | | | RSS | | | | 10.616 | 10.432 | |
| Expanded Uncertainty (95% Confidence interval) | | | K=2 | | | | 21.232 | 20.865 | |



| Svstem | | ATIMO Unc uncertainty | | | | n / 10 gram. | | | |
|--|---------|--------------------------|----------------|-------|---------|--------------|----------------|-----------------|---|
| Uncertainty Component | Sec. | Tol (+- %) | Prob. Dist. | Div. | Ci (1g) | Ci (10g) | 1g Ui (+-%) | 10g Ui (+-%) | vi |
| Measurement System | 1 | | | | | | | | |
| 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 | 8 |
| Hemispherical Isotropy | E.2.2 | 1.695 | R | 1.732 | 0.000 | 0.000 | 0.000 | 0.000 | 8 |
| Boundary effect | E.2.3 | 1.000 | R | 1.732 | 1.000 | 1.000 | 0.577 | 0.577 | 8 |
| 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 | 8 |
| 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 | 8 |
| 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 | ø |
| 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 | x |
| 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 | ø |
| 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 | 1 |
| Expanded Uncertainty (95% Confidence interval) | | | K=2 | | | | 21.143 | 20.775 | |



| S | /stem Check | SATIMO Un uncertainty | | | | / 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 | $\sqrt{3}$ | 0 | 0 | 0 | 0 | 8 |
| 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 | 8 |
| System detection limits | E.2.4 | 1 | R | $\sqrt{3}$ | 0 | 0 | 0 | 0 | 8 |
| Modulation response | E2.5 | 3 | R | $\sqrt{3}$ | 0 | 0 | 0 | 0 | 8 |
| Readout Electronics | E.2.6 | 0.021 | N | $\sqrt{3}$ | 0 | 0 | 0 | 0 | 8 |
| Response Time | E.2.7 | 0 | R | $\sqrt{3}$ | 0 | 0 | 0 | 0 | 8 |
| Integration Time | E.2.8 | 1.4 | R | $\sqrt{3}$ | 0 | 0 | 0 | 0 | 00 |
| RF ambient conditions-Noise | E.6.1 | 3 | R | $\sqrt{3}$ | 0 | 0 | 0 | 0 | 00 |
| 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 | √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 | $\sqrt{3}$ | 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 | ∞ |
| Phantom and tissue paramete | rs | | | | | | | | |
| 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 | М |
| Liquid conductivity—temperature uncertainty | E.3.4 | 2.5 | R | $\sqrt{3}$ | 0.78 | 0.71 | 1.13 | 1.02 | ø |
| 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 | |



12. CONDUCTED POWER MEASUREMENT

Bluetooth_BT

| | | Average Power(dBm) | | | | |
|------|---------|--------------------|---------|---------|--|--|
| ВТ | Max. | CH0 | CH39 | CH78 | | |
| | Tune up | 2402MHz | 2441MHz | 2480MHz | | |
| DH5 | 6.00 | 5.08 | 5.02 | 5.64 | | |
| 2DH5 | 6.00 | 5.08 | 5.01 | 5.57 | | |
| 3DH5 | 6.00 | 5.08 | 5.00 | 5.60 | | |

| | | Averag | | |
|---------|-----------------|---------|---------|---------|
| BLE | Max. Tune up | CH0 | CH19 | CH39 |
| | | 2402MHz | 2440MHz | 2480MHz |
| BLE(1M) | 0.50 | 0.36 | -0.74 | -1.45 |
| BLE(2M) | 0.50 | 0.44 | -0.66 | 0.49 |

WIFI_WIFI2.4G

| Band | Mode | Channel | Frequency (MHz) | Data Rate (Mbps) | Max. Tune up | Average Power(dBm) |
|------------|--------------|---------|--------------------|---------------------|-----------------|-----------------------|
| | | 1 | 2412 | | 10.00 | 9.22 |
| | 802.11b | 6 | 2437 | 1 | 10.00 | 8.92 |
| | | 11 | 2462 | | 10.00 | 9.58 |
| | | 1 | 2412 | | 10.00 | 9.56 |
| | 802.11g | 6 | 2437 | 6 | 10.00 | 8.39 |
| 2.4G WIFI | | 11 | 2462 | | 10.00 | 9.46 |
| 2.46 10171 | 802.11n HT20 | 1 | 2412 | | 10.00 | 9.52 |
| | | 6 | 2437 | HT0 | 10.00 | 8.29 |
| | | 11 | 2462 | | 10.00 | 9.33 |
| | | 3 | 2422 | | 10.00 | 8.87 |
| | 802.11n HT40 | 6 | 2442 | HT0 | 10.00 | 8.25 |
| | | 9 | 2452 | | 10.00 | 8.95 |

Note: The tested channel results are marks in bold.



WIFI_WIFI5G

| Band | Mode | Channel | Frequency (MHz) | Data Rate (Mbps) | Max. Tune-up | Average Power(dBm) |
|------|----------------|---------|--------------------|---------------------|-----------------|-----------------------|
| | | 36 | 5180 | | 8.50 | 7.98 |
| | 802.11a | 40 | 5200 | 6 | 8.50 | 8.18 |
| | | 48 | 5240 | | 8.50 | 8.27 |
| | | 36 | 5180 | | 8.50 | 8.40 |
| | 802.11n HT20 | 40 | 5200 | НТО | 8.50 | 7.51 |
| | | 48 | 5240 | | 8.50 | 7.61 |
| 5.00 | | 38 | 5190 | | 8.50 | 6.91 |
| 5.2G | 802.11n HT40 | 46 | 5230 | НТО | 8.50 | 7.59 |
| | | 36 | 5180 | | 8.50 | 7.63 |
| | 802.11ac VHT20 | 40 | 5200 | VHT0 | 8.50 | 6.93 |
| | 802.11ac VHT40 | 48 | 5240 | | 8.50 | 7.91 |
| | | 38 | 5190 | VHT0 | 8.50 | 7.35 |
| | | 46 | 5230 | | 10.50 | 10.05 |
| | 802.11ac VHT80 | 42 | 5210 | VHT0 | 3.00 | 2.99 |
| | | 149 | 5745 | 6 | 10.00 | 8.65 |
| | 802.11a | 157 | 5785 | | 10.00 | 9.07 |
| | | 165 | 5825 | | 11.00 | 10.59 |
| | | 149 | 5745 | | 10.00 | 8.67 |
| | 802.11n HT20 | 157 | 5785 | НТО | 10.00 | 9.09 |
| | | 165 | 5825 | | 10.00 | 9.49 |
| 5 00 | | 151 | 5755 | | 10.00 | 9.60 |
| 5.8G | 802.11n HT40 | 159 | 5795 | HT0 | 10.00 | 8.71 |
| | | 149 | 5745 | | 10.00 | 8.96 |
| | 802.11ac VHT20 | 157 | 5785 | VHT0 | 10.00 | 9.19 |
| | | 165 | 5825 | | 10.00 | 9.98 |
| | | 151 | 5755 | | 10.00 | 9.25 |
| | 802.11ac VHT40 | 159 | 5795 | VHT0 | 10.00 | 9.20 |
| | 802.11ac VHT80 | 155 | 5775 | VHT0 | 0.50 | -1.17 |

Note: The tested channel results are marks in bold.



13. TEST RESULTS

13.1. SAR Test Results Summary

13.1.1. Test position and configuration

Body-back and Edge Right and Edge Bottom 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 ≥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 ≥ 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 \ge 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 ≤1.2W/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 ≤1.2W/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 ≤ 1.2 W/kg, SAR is not required for that subsequent test configuration.



- 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).
- 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)]



0.265

0.213

1.6

1.6

8.65

9.07

13.1.3. Test Result

| SAR MEASURE | MENT | | | | | | | | |
|---------------------------------------|-----------------|------|-----------------------------|-----------------------------|-----------------------|-------------------------------|--------------------------------|-------------------------|-----------------|
| Depth of Liquid (cm):>15 | | | Relative Humidity (%): 53.2 | | | | | | |
| Product:Professi | onal Diagnostic | Tool | | | | | | | |
| Test Mode:802.1 | 1b | | | | | | | | |
| 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 | 802.11b | 11 | 2462 | 0.11 | 0.073 | 10 | 9.58 | 0.080 | 1.6 |
| Edge (Right) | 802.11b | 11 | 2462 | 0.17 | 0.056 | 10 | 9.58 | 0.062 | 1.6 |
| Edge (Bottom) | 802.11b | 11 | 2462 | -0.06 | 0.183 | 10 | 9.58 | 0.202 | 1.6 |
| Edge (Bottom) | 802.11b | 1 | 2412 | 0.03 | 0.165 | 10 | 9.22 | 0.197 | 1.6 |
| Edge (Bottom) | 802.11b | 6 | 2437 | 0.09 | 0.151 | 10 | 8.92 | 0.194 | 1.6 |
| SAR MEASURE | MENT | | | | | | | | |
| Depth of Liquid (cm):>15 | | | Relative I | Relative Humidity (%): 52.6 | | | | | |
| Product:Profession | onal Diagnostic | Tool | | | | · | | | |
| Test Mode:802.1 | 1ac40 | | | | | | | | |
| 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 | 802.11ac40 | 46 | 5230 | -0.03 | 0.059 | 10.5 | 10.05 | 0.065 | 1.6 |
| Edge (Right) | 802.11ac40 | 46 | 5230 | -0.05 | 0.046 | 10.5 | 10.05 | 0.051 | 1.6 |
| Edge (Bottom) | 802.11ac40 | 46 | 5230 | -0.11 | 0.178 | 10.5 | 10.05 | 0.197 | 1.6 |
| Edge (Bottom) | 802.11ac40 | 38 | 5190 | 0.07 | 0.143 | 8.5 | 7.35 | 0.186 | 1.6 |
| SAR MEASURE | MENT | | | | | | | | |
| Depth of Liquid (| cm):>15 | | | Relative H | lumidity (% |): 53.0 | | | |
| Product:Profession | onal Diagnostic | Tool | | | | | | | |
| Test Mode:802.1 | 1a | | | | | | | | |
| 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 | 165 | 5825 | 0.07 | 0.055 | 11 | 10.59 | 0.060 | 1.6 |
| Edge (Right) | 802.11a | 165 | 5825 | 0.16 | 0.039 | 11 | 10.59 | 0.043 | 1.6 |
| Edge (Bottom) | 802.11a | 165 | 5825 | 0.04 | 0.163 | 11 | 10.59 | 0.179 | 1.6 |
| · · · · · · · · · · · · · · · · · · · | | | | 1 | | | | 1 | 1 |

Note:

Edge (Bottom)

Edge (Bottom)

802.11a

802.11a

• When the 1-g Reported SAR is ≤ 0.8 W/kg, testing for low and high channel is optional. Refer to KDB 447498. •The test separation for Body-back, and Edge Right and Edge Bottom SAR is 0cm of all above table

0.194

0.172

10

10

·Plots are only shown for the bold markered worst case SAR results.

5745

5785

0.01

-0.04

149

157



Simultaneous Multi-band Transmission Evaluation:

This device have only one antenna, don't contain multiple transmitters that operate simultaneously, and therefore simultaneous transmission analysis are not requires.

Value of the SAR for WIFI & BT:

| Test position | | Max 1g-SAR (W/kg) | | | | |
|---------------|-----------------|-------------------|-----------|-----------|--|--|
| | | WLAN 2.4G | WLAN 5.2G | WLAN 5.8G | | |
| | Body_Back | 0.080 | 0.065 | 0.060 | | |
| Body | Body Edge Right | 0.062 | 0.051 | 0.043 | | |
| | Edge Bottom | 0.202 | 0.197 | 0.265 | | |
| Limit | | 1.6 W/kg | | | | |

NOTE: WIFI and BT share the same antenna, and cannot transmit simultaneously.



APPENDIX A. SAR SYSTEM CHECK DATA

Test Laboratory: AGC Lab System Check Head 2450 MHz

DUT: Dipole 2450 MHz Type: SID 2450

Date: Aug. 14, 2024

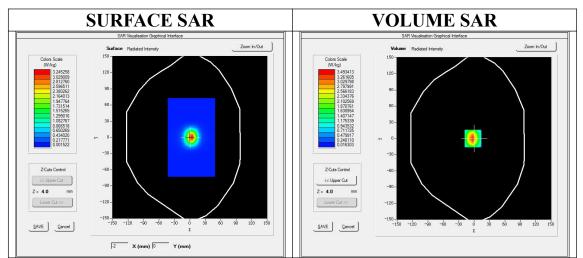
Communication System CW; Communication System Band: D2450 (2450.0 MHz); Duty Cycle: 1:1; Conv.F=2.16 Frequency: 2450 MHz; Medium parameters used: f = 2450 MHz; σ =1.89 mho/m; ϵ r =39.40; ρ = 1000 kg/m³; Phantom section: Flat Section; Input Power=18dBm Ambient temperature (°C):22.9, Liquid temperature (°C): 22.6

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

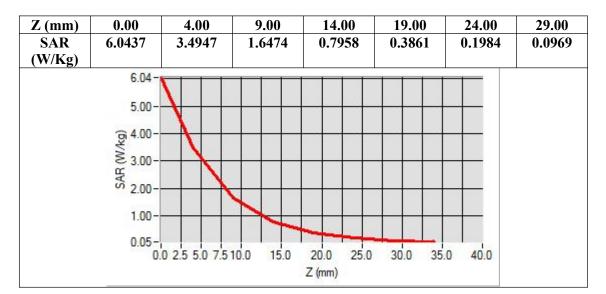
| Area Scan | dx=8mm dy=8mm, h= 5.00 mm |
|-----------------|----------------------------|
| ZoomScan | 7x7x7,dx=5mm dy=5mm dz=5mm |
| Phantom | SAM twin phantom |
| Device Position | Flat |
| Band | CW 2450 |
| Channels | Middle |
| Signal | Crest factor: 1.0 |

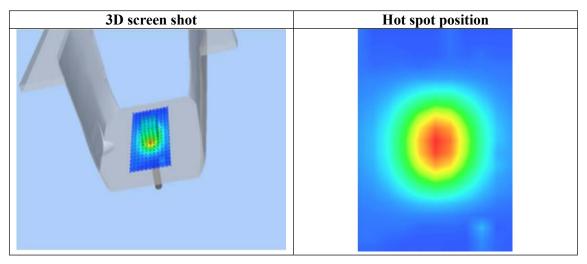


Maximum location: X=1.00, Y=0.00 SAR Peak: 6.01 W/kg

| SAR 10g (W/Kg) | 1.503381 |
|----------------|----------|
| SAR 1g (W/Kg) | 3.370214 |







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Date: Aug. 15, 2024

Test Laboratory: AGC Lab System Check 5200 MHz DUT: Dipole 5000MHz Type: SID5500

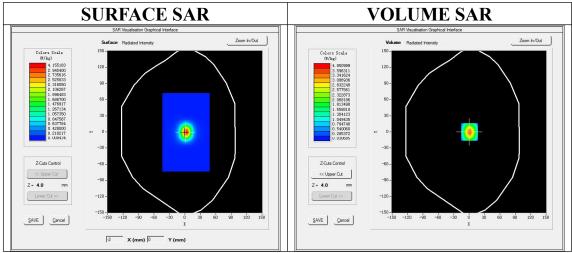
Communication System: CW; Communication System Band: D5000 (5000.0 MHz); Duty Cycle: 1:1; Conv.F=1.53 Frequency: 5200 MHz; Medium parameters used: f = 5200 MHz; σ =4.60 mho/m; ϵ r =35.53; ρ = 1000 kg/m³; Phantom section: Flat Section; Input Power=18dBm Ambient temperature (°C): 22.8, Liguid temperature (°C): 22.3

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

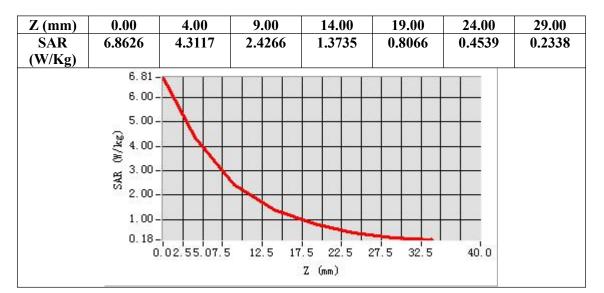
| Area Scan | dx=8mm dy=8mm, h= 5.00 mm |
|-----------------|-----------------------------|
| ZoomScan | 7x7x12,dx=4mm dy=4mm dz=2mm |
| Phantom | SAM twin phantom |
| Device Position | Flat |
| Band | CW 5200 |
| Channels | Middle |
| Signal | Crest factor: 1.0 |

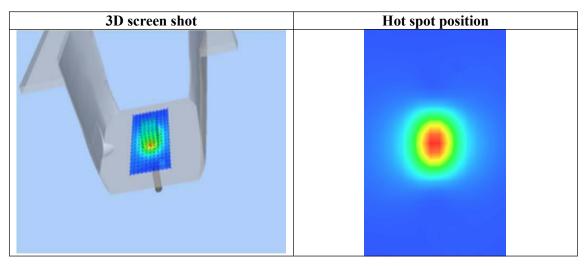


Maximum location: X=1.00, Y=0.00 SAR Peak: 6.86 W/kg

| SAR 10g (W/Kg) | 1.339091 |
|----------------|----------|
| SAR 1g (W/Kg) | 4.613129 |









Date: Aug. 15, 2024

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

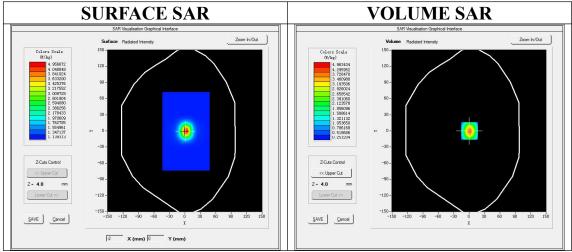
Communication System: CW; Communication System Band: D5000 (5000.0 MHz); Duty Cycle: 1:1; Conv.F=1.37 Frequency: 5800 MHz; Medium parameters used: f = 5800 MHz; σ =5.20 mho/m; ϵ r =34.85; ρ = 1000 kg/m³; Phantom section: Flat Section; Input Power=18dBm Ambient temperature (°C): 22.8, Liguid temperature (°C): 22.3

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

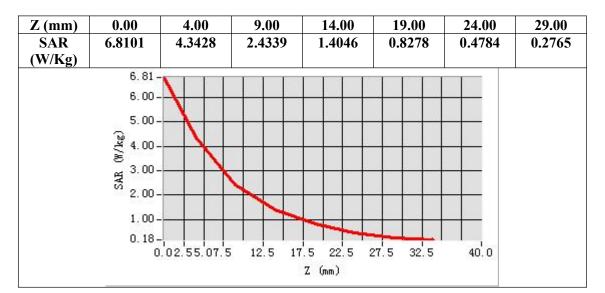
| Area Scan | dx=8mm dy=8mm, h= 5.00 mm |
|-----------------|-----------------------------|
| ZoomScan | 7x7x12,dx=4mm dy=4mm dz=2mm |
| Phantom | SAM twin phantom |
| Device Position | Flat |
| Band | CW 5800 |
| Channels | Middle |
| Signal | Crest factor: 1.0 |

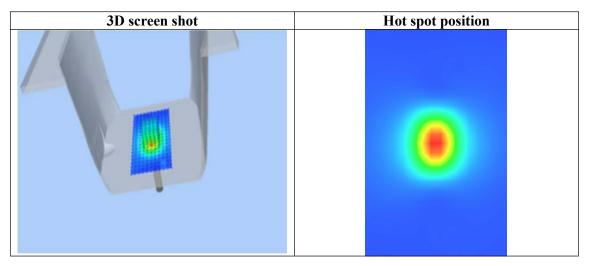


Maximum location: X=1.00, Y=0.00 SAR Peak: 6.93 W/kg

| SAR 10g (W/Kg) | 1.402733 |
|----------------|----------|
| SAR 1g (W/Kg) | 4.735211 |









APPENDIX B. SAR MEASUREMENT DATA

Date: Aug. 14, 2024

Test Laboratory: AGC Lab 802.11b High- Edge- Bottom DUT: Professional Diagnostic Tool; Type: ArtiDiag800 BT 2

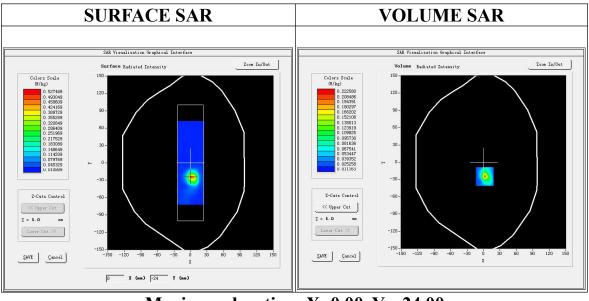
Communication System: Wi-Fi; Communication System Band: 802.11b; Duty Cycle: 1:1; Conv.F=2.16; Frequency: 2462 MHz; Medium parameters used: f = 2450 MHz; σ =1.90 mho/m; ϵ r =39.34; ρ = 1000 kg/m³; Phantom section: Flat Section Ambient temperature (°C):22.9, Liquid temperature (°C): 22.6

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 High- Edge- Bottom /Area Scan: Measurement grid: dx=8mm, dy=8mm **Configuration/802.11b High- Edge- Bottom /Zoom Scan:** Measurement grid: dx=5mm,dy=5mm, dz=5mm;

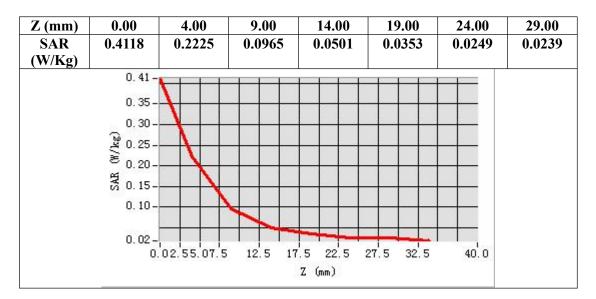
| Area Scan | dx=8mm dy=8mm, h= 5.00 mm |
|-----------------|----------------------------|
| ZoomScan | 7x7x7,dx=5mm dy=5mm dz=5mm |
| Phantom | SAM twin phantom |
| Device Position | Edge- Bottom |
| Band | 2450MHz |
| Channels | High |
| Signal | Crest factor: 1.0 |

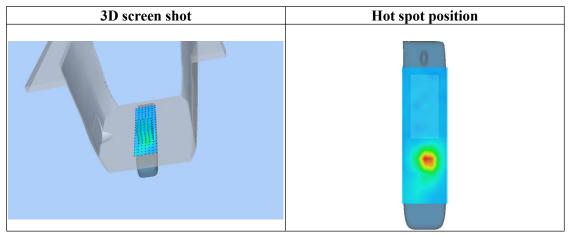


Maximum location: X=0.00, Y=-24.00 SAR Peak: 0.406 W/kg



| SAR 10g (W/Kg) | 0.066312 |
|----------------|----------|
| SAR 1g (W/Kg) | 0.183103 |







Date: Aug. 15, 2024

Test Laboratory: AGC Lab 802.11ac40 High- Edge- Bottom DUT: Professional Diagnostic Tool; Type: ArtiDiag800 BT 2

Communication System: Wi-Fi; Communication System Band: 802.11ac40; Duty Cycle: 1:1; Conv.F=1.53; Frequency: 5230 MHz; Medium parameters used: f = 5200 MHz; σ =4.69 mho/m; ϵ r =35.46; ρ = 1000 kg/m³; Phantom section: Flat Section

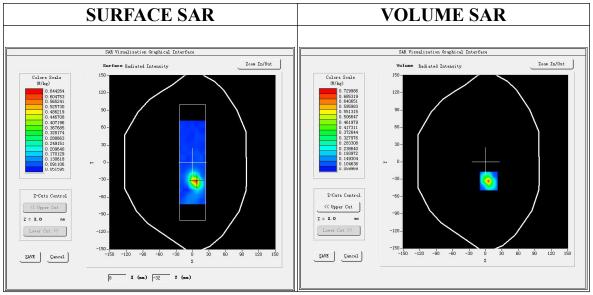
Ambient temperature (°C):22.8, Liquid temperature (°C): 22.3

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/802.11ac40 High- Edge- Bottom/Area Scan: Measurement grid: dx=8mm, dy=8mm **Configuration/802.11ac40 High- Edge- Bottom/Zoom Scan:** Measurement grid: dx=4mm,dy=4mm, dz=2mm;

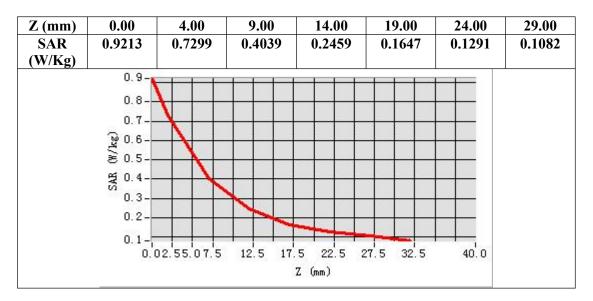
| Area Scan | dx=8mm dy=8mm, h= 5.00 mm |
|-----------------|-----------------------------|
| ZoomScan | 7x7x12,dx=4mm dy=4mm dz=2mm |
| Phantom | SAM twin phantom |
| Device Position | Edge- Bottom |
| Band | 5200MHz |
| Channels | High |
| Signal | Crest factor: 1.0 |

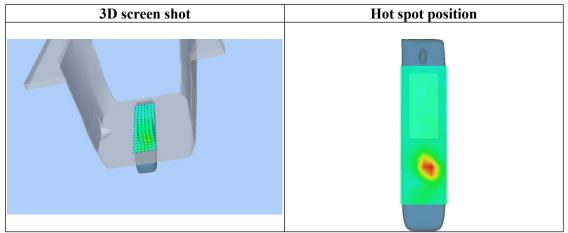


Maximum location: X=8.00, Y=-32.00 SAR Peak: 0.909 W/kg



| SAR 10g (W/Kg) | 0.057213 |
|----------------|----------|
| SAR 1g (W/Kg) | 0.178324 |







Date: Aug. 15, 2024

Test Laboratory: AGC Lab 802.11a Low- Edge- Bottom DUT: Professional Diagnostic Tool; Type: ArtiDiag800 BT 2

Communication System: Wi-Fi; Communication System Band: 802.11a; Duty Cycle: 1:1; Conv.F=1.37; Frequency: 5745 MHz; Medium parameters used: f = 5800 MHz; σ =5.13 mho/m; ϵ r =35.05; ρ = 1000 kg/m³; Phantom section: Flat Section

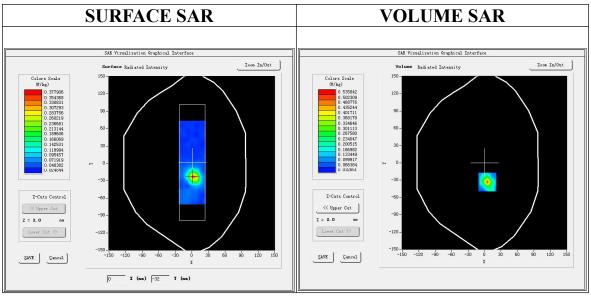
Ambient temperature (°C):22.8, Liquid temperature (°C): 22.3

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

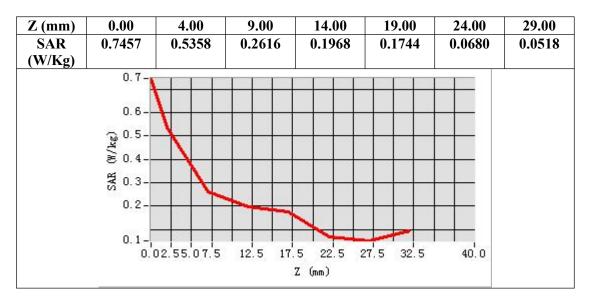
| Area Scan | dx=8mm dy=8mm, h= 5.00 mm |
|-----------------|-----------------------------|
| ZoomScan | 7x7x12,dx=4mm dy=4mm dz=2mm |
| Phantom | SAM twin phantom |
| Device Position | Edge- Bottom |
| Band | 5800MHz |
| Channels | Low |
| Signal | Crest factor: 1.0 |

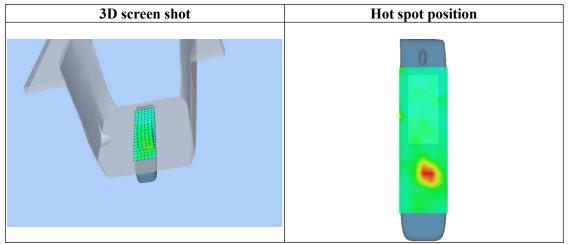


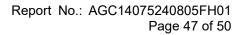
Maximum location: X=0.00, Y=-32.00 SAR Peak: 0.783 W/kg



| SAR 10g (W/Kg) | 0.066478 |
|----------------|----------|
| SAR 1g (W/Kg) | 0.194303 |









APPENDIX C. TEST SETUP PHOTOGRAPHS



Edge Right_0cm



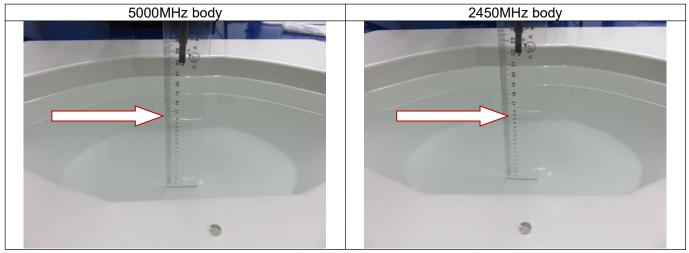


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DEPTH OF THE LIQUID IN THE PHANTOM-ZOOM IN



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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