

Report No.:STS2412030H02

Issued for

GEOMAX AG

Espenstrasse 135, CH-9443 Widnau, Switzerland

Product Name: Zenith06 Pro

Brand Name: **GE®MAX**

Model Name: Zenith06 Pro

Series Model(s): N/A

FCC ID: 2AUW9-ZENITH06PRO

ANSI/IEEE Std. C95.1

Test Standard: FCC 47 CFR Part 2 (2.1093)

IEEE Std. 1528-2013

Max. Report

SAR (1g)

Body: 0.548 W/kg

The test results presented in this report relate only to the object tested. This report shall not be reproduced, except in full, without the written approval of the Shenzhen STS Test Services Co., Ltd.



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TEST REPORT CERTIFICATION

Applicant's name: (GEOMAX AG
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Address: Espenstrasse 135, CH-9443 Widnau, Switzerland

Manufacturer's Name GEOMAX AG

Address Espenstrasse 135, CH-9443 Widnau, Switzerland

Product description

Product name Zenith06 Pro

Brand name **FEMAX**

Model name Zenith06 Pro

Series Model..... N/A

ANSI/IEEE Std. C95.1

Standards..... FCC 47 CFR Part 2 (2.1093)

IEEE Std. 1528-2013

The device was tested by Shenzhen STS Test Services Co., Ltd. in accordance with the measurement methods and procedures specified in KDB 865664 The test results in this report apply only to the tested sample of the stated device/equipment. Other similar device/equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Date of Test

Date (s) of performance of tests.....: 17 Dec 2024

Date of Issue...... 26 Dec 2024

Test Result..... Pass

Testing Engineer :

(Xin.Liu)

Technical Manager:

(Shifan. Long)

Authorized Signatory:

(Bovey Yang)

TESTING APPROV



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Revision History

Rev.	Issue Date	Report No.	Effect Page	Contents
00	26 Dec 2024	STS2412030H02	ALL	Initial Issue
				9.



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1. General Information

Environmental evaluation measurements of specific absorption rate (SAR) distributions in emulated human head and body tissues exposed to radio frequency (RF) radiation from wireless portable devices for compliance with the rules and regulations of the U.S. Federal Communications Commission (FCC).

1.1 EUT Description

Product Name	Zenith06 Pro										
Brand Name	GE®N	IΔX									
Model Name	Zenith06 Pro	Zenith06 Pro									
Series Model	N/A										
Model Difference	N/A										
Device Category	Portable										
Product stage	Production unit										
RF Exposure Environment	General Populatio	n / Uncontrolled									
Hardware Version	V1.0										
Software Version	V1.0										
Frequency Range	WLAN802.11b/g/n WLAN 802.11n40: Bluetooth: 2402 M	20: 2412 MHz ~ 246: 2422 MHz ~ 2452 M Hz to 2480 MHz	2 MHz IHz								
Max. Reported	Band	Mode	Body Worn (\	N/kg)							
SAR(1g): (Limit:1.6W/kg) Test distance: Body:0mm	DTS	2.4G WLAN	0.548								
FCC Equipment Class		pectrum Transmitter (on System (DTS)	DSS)								
Operating Mode:	Digital Transmission System (DTS) 2.4G WLAN: 802.11b(DSSS):CCK,DQPSK,DBPSK 802.11g(OFDM):BPSK,QPSK,16-QAM,64-QAM 802.11n(OFDM):BPSK,QPSK,16-QAM,64-QAM Bluetooth: GFSK +π/4DQPSK+8DPSK BLE: GFSK										
Antenna Specification:	Bluetooth: Internal Antenna WLAN: Internal Antenna										
Hotspot Mode	Not Support										
DTM Mode	Not Support										



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1.2 Test Environment

Ambient conditions in the SAR laboratory:

Items	Required
Temperature (°ℂ)	18-25
Humidity (%RH)	30-70

1.3 Test Factory

ShenZhen STS Test Services Co.,Ltd.

A 1/F, Building B, Zhuoke Science Park, No.190 Chongqing Road, HepingShequ, Fuyong Sub-District, Bao'an District, Shenzhen, Guang Dong, China

FCC test Firm Registration No.: 625569

IC Registration No.: 12108A A2LA Certificate No.: 4338.01



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2. Test Standards and Limits

No.	Identity	Document Title
1	47 CFR Part 2	Frequency Allocations and Radio Treaty Matters; General Rules and Regulations
2	ANSI/IEEE Std. C95.1-1992	IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz
3	IEEE Std. 1528-2013	Recommended Practice for Determining the Peak Spatial- Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques
4	FCC KDB 447498 D04 v01	RF Exposure Procedures and Equipment Authorization Policies for Mobile and Portable Devices
5	FCC KDB 865664 D01 v01r04	SAR Measurement 100 MHz to 6 GHz
6	FCC KDB 865664 D02 v01r02	RF Exposure Reporting
7	FCC KDB 941225 D01 v03r01	SAR Measurement Procedures for 3G Devices
8	FCC KDB 941225 D05 v02r05	SAR for LTE Devices
9	FCC KDB 941225 D06 v02r01	Hotspot Mode SAR
10	FCC KDB 648474 D04 v01r03	SAR Evaluation Considerations for Wireless Handsets
11	FCC KDB 248227 D01 Wi-Fi SAR v02r02	SAR Considerations for 802.11 Devices

(A). Limits for Occupational/Controlled Exposure (W/kg)

Whole-Body Partial-Body Hands, Wrists, Feet and Ankles 0.4 8.0 20.0

(B). Limits for General Population/Uncontrolled Exposure (W/kg)

Whole-Body Partial-Body Hands, Wrists, Feet and Ankles 0.08 1.6 4.0

NOTE: Whole-Body SAR is averaged over the entire body, partial-body SAR is averaged over any 1 gram of tissue defined as a tissue volume in the shape of a cube. SAR for hands, wrists, feet and ankles is averaged over any 10 grams of tissue defined as a tissue volume in the shape of a cube.

Population/Uncontrolled Environments:

Are defined as locations where there is the exposure of individuals who have no knowledge or control of their exposure.

Occupational/Controlled Environments:

Are defined as locations where there is exposure that may be incurred by people who are aware of the potential for exposure, (i.e. as a result of employment or occupation).

NOTE GENERAL POPULATION/UNCONTROLLED EXPOSURE PARTIAL BODY LIMIT 1.6 W/kg

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3. SAR Measurement System

3.1 Definition of Specific Absorption Rate (SAR)

SAR is related to the rate at which energy is absorbed per unit mass in an object exposed to a radio field. The SAR distribution in a biological body is complicated and is usually carried out by experimental techniques or numerical modeling. The standard recommends limits for two tiers of groups, occupational/controlled and general population/uncontrolled, based on a person's awareness and ability to exercise control over his or her exposure. In general, occupational/controlled exposure limits are higher than the limits for general population/uncontrolled.

The SAR definition is the time derivative (rate) of the incremental energy (dW) absorbed by (dissipated in) an incremental mass (dm) contained in a volume element (dv) of a given density (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 measurement can be related to the electrical field in the tissue by

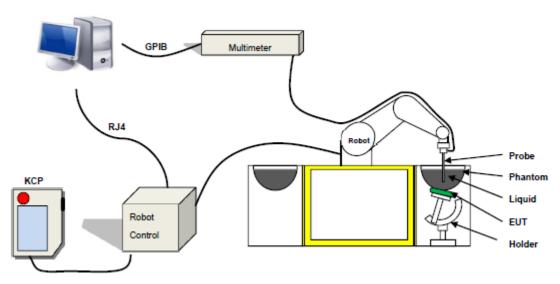
$$SAR = \frac{\sigma E^2}{\rho}$$

Where: σ is the conductivity of the tissue,

 $\boldsymbol{\rho}$ is the mass density of the tissue and E is the RMS electrical field strength.

3.2 SAR System

MVG SAR System Diagram:



COMOSAR is a system that is able to determine the SAR distribution inside a phantom of human being according to different standards. The COMOSAR system consists of the following items:

- Main computer to control all the system
- 6 axis robot
- Data acquisition system
- Miniature E-field probe
- Phone holder
- Head simulating tissue



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The following figure shows the system.



The EUT under test operating at the maximum power level is placed in the phone holder, under the phantom, which is filled with head simulating liquid. The E-Field probe measures the electric field inside the phantom. The Open SAR software computes the results to give a SAR value in a 1g or 10g mass.

3.2.1 Probe

For the measurements the Specific Dosimetric E-Field Probe SN 08/21 EPGO352 with following specifications is used

- Probe Length: 330 mm
- Length of Individual Dipoles: 2 mm
- Maximum external diameter: 8 mm
- Probe Tip External Diameter: 2.5 mm
- Distance between dipole/probe extremity: 1 mm
- Dynamic range: 0.01-100 W/kg
- Probe linearity: 3%
- Axial Isotropy: < 0.10 dB
- Spherical Isotropy: < 0.10 dB
- Calibration range: 150 MHz to 6 GHz for head & body simulating liquid.
- Angle between probe axis (evaluation axis) and surface normal line: less than 30°



Figure 1-MVG COMOSAR Dosimetric E field Dipole

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3.2.2 Phantom

For the measurements the Specific Anthropomorphic Mannequin (SAM) defined by the IEEE SCC-34/SC2 group is used. The phantom is a polyurethane shell integrated in a wooden table. The thickness of the phantom amounts to 2mm +/- 0.2mm. It enables the dosimetric evaluation of left and right phone usage and includes an additional flat phantom part for the simplified performance check. The phantom set-up includes a cover, which prevents the evaporation of the liquid.





3.2.3 Device Holder



The SAR in the phantom is approximately inversely proportional to the square of the distance between the source and the liquid surface. For a source at 5 mm distance, a positioning uncertainty of \pm 0.5 mm would produce a SAR uncertainty of \pm 20 %. Accurate device positioning is therefore crucial for accurate and repeatable measurements. The positions in which the devices must be measured are defined by the standards.4. Tissue Simulating Liquids



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4. Tissue Simulating Liquids

4.1 Simulating Liquids Parameter Check

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

Head Tissue

Frequency	cellulose	DGBE	HEC	NaCl	Preventol	Sugar	X100	Water	Conductivity	Permittivity
(MHz)	%	%	%	%	%	%	%	%	σ	εr
750	0.2	/	1	1.4	0.2	57.0	1	41.1	0.89	41.9
835	0.2	/	1	1.4	0.2	57.9	1	40.3	0.90	41.5
900	0.2	/	1	1.4	0.2	57.9	1	40.3	0.97	41.5
1800	1	44.5	1	0.3	/	1	30.45	55.2	1.4	40.0
1900	1	44.5	1	0.3	/	1	30.45	55.2	1.4	40.0
2000	1	44.5	1	0.3	/	1	/	55.2	1.4	40.0
2450	1	44.9	1	0.1	/	1	/	55.0	1.80	39.2
2600	1	45.0	/	0.1	1	1	1	54.9	1.96	39.0

Body Tissue

Frequency	cellulose	DGBE	HEC	NaCl	Preventol	Sugar	X100	Water	Conductivity	Permittivity
(MHz)	%	%	%	%	%	%	%	%	σ	εr
750	0.2	/	1	0.9	0.1	47.2	1	51.7	0.96	55.5
835	0.2	/	1	0.9	0.1	48.2	1	50.8	0.97	55.2
900	0.2	1	1	0.9	0.1	48.2	1	50.8	1.05	55.0
1800	1	29.4	1	0.4	1	1	30.45	70.2	1.52	53.3
1900	1	29.4	1	0.4	1	1	30.45	70.2	1.52	53.3
2000	1	29.4	1	0.4	/	1	/	70.2	1.52	53.3
2450	1	31.3	1	0.1	1	1	/	68.6	1.95	52.7
2600	1	31.7	/	0.1	1	1	/	68.2	2.16	52.3

Tissue dielectric parameters for head and body phantoms										
Frequency	ετ		σ S/m							
	Head	Body	Head	Body						
300	45.3	58.2	0.87	0.92						
450	43.5	56.7	0.87	0.94						
900	41.5	55.0	0.97	1.05						
1450	40.5	54.0	1.20	1.30						
1800	40.0	53.3	1.40	1.52						
2450	39.2	52.7	1.80	1.95						
3000	38.5	52.0	2.40	2.73						
5800	35.3	48.2	5.27	6.00						



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Doto	Ambient		Simulating Liquid		Doromotoro	Torget	Magaurad	Deviation	Limited
Date	Temp.	Humidity	Frequency	Temp.	Parameters	Target	Measured	%	%
	[°C]	%	(MHz)	[°C]					
2024-12-17	22.0	40	2412	21.7	Permittivity	39.27	39.65	0.97	±10
2024-12-17	22.0	40	2412	21.7	Conductivity	1.77	1.78	0.78	±10
2024-12-17	22.0	40	2442	21.7	Permittivity	39.21	39.84	1.60	±10
2024-12-17	22.0	40	2442	21.7	Conductivity	1.79	1.81	0.95	±10
2024 12 17	22.0	40	2450	04.7	Permittivity	39.20	40.41	3.09	±10
2024-12-17	22.0	40	2450 21.7		Conductivity	1.80	1.81	0.56	±10
2024 12 17	0004 40 47 00 0	20.0	2472	21.7	Permittivity	39.16	39.61	1.15	±10
2024-12-17	2024-12-17 22.0 40		2472 21.7		Conductivity	1.82	1.79	-1.62	±10

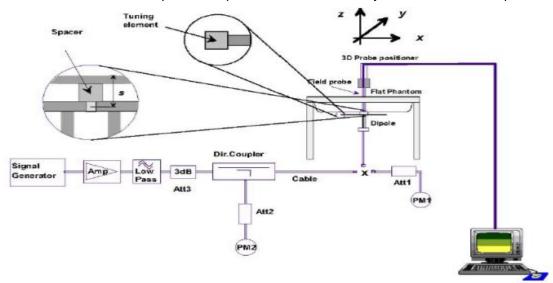


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5. SAR System Validation

5.1 Validation System

Each MVG system is equipped with one or more system validation kits. These units, together with the predefined measurement procedures within the MVG software, enable the user to conduct the system performance 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 validation setup is shown as below.



5.2 Validation Result

Comparing to the original SAR value provided by MVG, the validation data should be within its specification of 10 %.

_	Frog	Dower	Power	Tested	Normalized	Torget CAD	Toloropoo	
Date	Freq.	Power	drift	Value	SAR	Target SAR	Tolerance	
	(MHz)	(mW)	(%)	(W/Kg)	(W/kg)	10g(W/kg)	(%)	
2024-12-17	2450	100	1.24	2.467	24.67	24.11	2.32	

Note:

- The tolerance limit of System validation ±10%.
- 2. The dipole input power (forward power) was 100 mW.
- 3. The results are normalized to 1 W input power.



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6. SAR Evaluation Procedures

The procedure for assessing the average SAR value consists of the following steps: The following steps are used for each test position

- Establish a call with the maximum output power with a base station simulator. The connection between the mobile and the base station simulator is established via air interface
- Measurement of the local E-field value at a fixed location. This value serves as a reference value for calculating a possible power drift.
- Measurement of the SAR distribution with a grid of 8 to 16mm * 8 to 16 mm and a constant distance to the inner surface of the phantom. Since the sensors cannot directly measure at the inner phantom surface, the values between the sensors and the inner phantom surface are extrapolated. With these values the area of the maximum SAR is calculated by an interpolation scheme.
- Around this point, a cube of 30 * 30 * 30 mm or 32 * 32 * 32 mm is assessed by measuring 5 or 8 * 5 or 8*4 or 5 mm. With these data, the peak spatial-average SAR value can be calculated.

Area Scan& Zoom Scan

First Area Scan is used to locate the approximate location(s) of the local peak SAR value(s). The measurement grid within an Area Scan is defined by the grid extent, grid step size and grid offset. Next, in order to determine the EM field distribution in a three-dimensional spatial extension, Zoom Scan is required. The Zoom Scan is performed around the highest E-field value to determine the averaged SAR-distribution over 10 g. Area scan and zoom scan resolution setting follows KDB 865664 D01 quoted below. When the 1-g SAR of the highest peak is within 2 dB of the SAR limit, additional zoom scans are required for other peaks within 2 dB of the highest peak that have not been included in any zoom scan to ensure there is no increase in SAR.



Right side

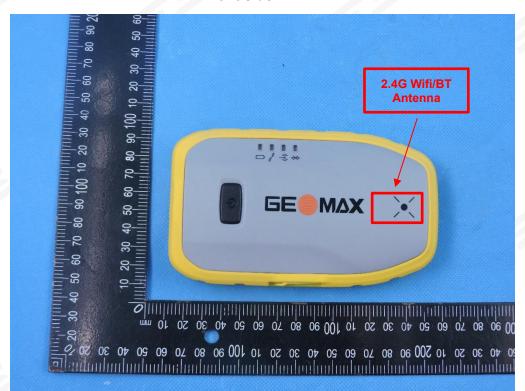
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7. EUT Antenna Location Sketch

It is a Smart phone, support WLAN/BT mode..

Front side



Left side

Back side (TOP view)

Antenna Separation Distance(cm)										
ANT Back Side Front Side Left Side Right Side Top Side Bottom Side										
WLAN/BT	1	1	2.5	2.5	10.5	1				

Note 1: The antenna information refer the manufacturer provide report, applicable only to the tested sample identified in the report.



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7.1 SAR test exclusion consider table

The WWAN/WLAN/BT SAR evaluation of Maximum power (dBm) summing tolerance.

	Wireless Interface	ВТ	2.4G WLAN
Exposure	Calculated Frequency(GHz)	2.401	2.437
Position	Maximum Turn-up power (dBm)	4	14.5
	Maximum rated power(mW)	2.51	28.18
	Separation distance (cm)	1	1
Back Side	exclusion threshold(mW)	10.39	10.29
	Testing required?	NO	YES
	Separation distance (cm)	1	1
Front Side	exclusion threshold(mW)	10.39	10.29
	Testing required?	NO	YES
	Separation distance (cm)	2.5	2.5
Left Edge	exclusion threshold(mW)	59.14	58.74
	Testing required?	NO	NO
	Separation distance (cm)	2.5	2.5
Right Edge	exclusion threshold(mW)	59.14	58.74
Luge	Testing required?	NO	NO
	Separation distance (cm)	10.5	10.5
Top Edge	exclusion threshold(mW)	900.84	898.97
	Testing required?	NO	NO
	Separation distance (cm)	1	1
Bottom	exclusion threshold(mW)	10.39	10.29
Edge	Testing required?	NO	YES

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Note:

- 1. maximum power is the source-based time-average power and represents the maximum RF output power among production units.
- 2. Per KDB 447498 D04, for larger devices, the test separation distance of adjacent edge configuration is determined by the closest separation between the antenna and the user.
- 3. Per KDB 447498 D04, if the maximum time-averaged power available does not exceed 1 mW. This stand-alone SAR exemption test.
- 4. Per KDB 447498 D04, the available maximum time-averaged power or effective radiated power (ERP), whichever is greater, is less than or equal to the threshold Pth (mW) described in the following formula. This method shall only be used at separation distances (cm) from 0.5 centimeters to 40 centimeters and at frequencies from 0.3 GHz to 6 GHz (inclusive). Pth is given by:

$$P_{th} \; (\text{mW}) = \begin{cases} ERP_{20 \; cm} (d/20 \; \text{cm})^x & d \leq 20 \; \text{cm} \\ \\ ERP_{20 \; cm} & 20 \; \text{cm} < d \leq 40 \; \text{cm} \end{cases}$$

Where

$$x = -\log_{10}\left(\frac{60}{ERP_{20~cm}\sqrt{f}}\right)$$
 and f is in GHz;

and

$$ERP_{20\ cm}\ (\text{mW}) = \begin{cases} 2040f & 0.3\ \text{GHz} \le f < 1.5\ \text{GHz} \\ \\ 3060 & 1.5\ \text{GHz} \le f \le 6\ \text{GHz} \end{cases}$$

d = the separation distance (cm);



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5. Per KDB 447498 D04, An alternative to the SAR-based exemption is using below table and the minimum separation distance (R in meters) from the body of a nearby person for the frequency (f in MHz) at which the source operates, the ERP (watts) is no more than the calculated value prescribed for that frequency. For the exemption in below table to apply, R must be at least $\lambda/2\pi$, where λ is the free-space operating wavelength in meters. If the ERP of a single RF source is not easily obtained, then the available maximum time-averaged power may be used in lieu of ERP if the physical dimensions of the radiating structure(s) do not exceed the electrical length of $\lambda/4$ or if the antenna gain is less than that of a half-wave dipole (1.64 linear value).

RF Source frequency (MHz)	Threshold ERP(watts)
0.3-1.34	1,920 R ² .
1.34-30	3,450 R ² /f ² .
30-300	3.83 R ² .
300-1,500	0.0128 R ² f.
1,500-100,000	19.2R².



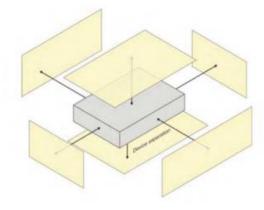
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8. EUT Test Position

This EUT was tested in Front Side, Back Side, Bottom Side.

8.1 Body-worn Position Conditions

Body-worn accessory exposure is typically related to voice mode operations when handsets are carried in body-worn accessories. The body-worn accessory procedures in KDB Publication 447498 D01 should be used to test for body-worn accessory SAR compliance, without a headset connected to it. When the same wireless transmission configuration is used for testing body-worn accessory and hotspot mode SAR, respectively, in voice and data mode, SAR results for the most conservative test separation distance configuration may be used to support both SAR conditions. When the reported SAR for a body-worn accessory, measured without a headset connected to the handset, is > 1.2 W/kg, the highest reported SAR configuration for that wireless mode and frequency band should be repeated for the body-worn accessory with a headset attached to the handset.





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9. Uncertainty

9.1 Measurement Uncertainty

The following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in IEEE 1528: 2013. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2

approximately the 95	% confide								
				y- SN 08/21					
	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
			Measurer	nent Systen	n				
Probe calibration	E.2.1	5.72	N	1.00	1.00	1.00	5.72	5.72	00
Axial Isotropy	E.2.2	0.18	R	1.73	0.71	0.71	0.07	0.07	00
Hemispherical Isotropy	E.2.2	1.04	R	1.73	0.71	0.71	0.42	0.42	00
Boundary effect	E.2.3	0.80	R	1.73	1.00	1.00	0.46	0.46	00
Linearity	E.2.4	1.25	R	1.73	1.00	1.00	0.72	0.72	00
System detection limits	E.2.4	1.20	R	1.73	1.00	1.00	0.69	0.69	8
Modulation response	E2.5	3.42	R	1.73	1.00	1.00	1.97	1.97	8
Readout Electronics	E.2.6	0.26	N	1.00	1.00	1.00	0.26	0.26	00
Response Time	E.2.7	0.17	R	1.73	1.00	1.00	0.10	0.10	8
Integration Time	E.2.8	1.43	R	1.73	1.00	1.00	0.83	0.83	8
RF ambient conditions-Noise	E.6.1	3.51	R	1.73	1.00	1.00	2.03	2.03	00
RF ambient conditions- reflections	E.6.1	3.15	R	1.73	1.00	1.00	1.82	1.82	8
Probe positioner mechanical tolerance	E.6.2	1.20	R	1.73	1.00	1.00	0.69	0.69	00
Probe positioning with respect to phantom shell	E.6.3	1.40	R	1.73	1.00	1.00	0.81	0.81	00
Extrapolation, interpolation, and integrations algorithms for max. SAR evaluation	E.5	2.10	R	1.73	1.00	1.00	1.21	1.21	00
Tot max. 6, iii ovalidation			Test sam	ple Related		l .			ı
Test sample positioning	E.4.2	3.10	N	1.00	1.00	1.00	3.10	3.10	00
Device holder uncertainty	E.4.1	3.80	N	1.00	1.00	1.00	3.80	3.80	00
Output power variation— SAR drift measurement	E.2.9	4.50	R	1.73	1.00	1.00	2.60	2.60	00
SAR scaling	E.6.5	1.80	R	1.73	1.00	1.00	1.04	1.04	00
		Pha	ntom and t	issue parar	neters				
Phantom shell uncertainty— shape, thickness, and permittivity	E.3.1	3.70	R	1.73	1.00	1.00	2.14	2.14	œ
Uncertainty in SAR correction for deviations in permittivity and conductivity	E.3.2	1.90	N	1.00	1.00	0.84	1.90	1.60	00
Liquid conductivity measurement	E.3.3	2.40	R	1.73	0.78	0.71	1.08	0.98	М
Liquid permittivity measurement	E.3.3	4.10	N	1.00	0.78	0.71	3.20	2.91	М
Liquid conductivity— temperature uncertainty	E.3.4	2.70	R	1.73	0.23	0.26	0.36	0.41	00
Liquid permittivity— temperature uncertainty	E.3.4	4.80	N	1.00	0.23	0.26	1.10	1.25	8
Combined Standard Uncertainty			RSS				10.08	9.59	
Expanded Uncertainty (95% Confidence interval)			K=2				19.58	19.18	



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		SATIMO	Uncertaint	y- SN 08/21	EPGO352				
	System Va	lidation unce	rtainty for [OUT average	ed over 1 gra	am / 10 gram	١.		
Uncertainty Component	Sec.	Tol (+- %)	Prob. Dist.	Div.	Ci (1g)	Ci (10g)	1g Ui (+- %)	10g Ui (+-%)	vi
Measurement System									
Probe calibration	E.2.1	5.72	N	1.00	1.00	1.00	5.72	5.72	8
Axial Isotropy	E.2.2	0.18	R	1.73	1.00	1.00	0.10	0.10	8
Hemispherical Isotropy	E.2.2	1.04	R	1.73	0.00	0.00	0.00	0.00	00
Boundary effect	E.2.3	0.80	R	1.73	1.00	1.00	0.46	0.46	8
Linearity	E.2.4	1.25	R	1.73	1.00	1.00	0.72	0.72	8
System detection limits	E.2.4	1.20	R	1.73	1.00	1.00	0.69	0.69	8
Modulation response	E2.5	3.42	R	1.73	0.00	0.00	0.00	0.00	00
Readout Electronics	E.2.6	0.26	N	1.00	1.00	1.00	0.26	0.26	00
Response Time	E.2.7	0.17	R	1.73	0.00	0.00	0.00	0.00	8
Integration Time	E.2.8	1.43	R	1.73	0.00	0.00	0.00	0.00	00
RF ambient conditions-									
Noise	E.6.1	3.51	R	1.73	1.00	1.00	2.03	2.03	00
RF ambient conditions- reflections	E.6.1	3.15	R	1.73	1.00	1.00	1.82	1.82	8
Probe positioner mechanical tolerance	E.6.2	1.20	R	1.73	1.00	1.00	0.69	0.69	00
Probe positioning with respect to phantom shell	E.6.3	1.40	R	1.73	1.00	1.00	0.81	0.81	8
Extrapolation, interpolation, and integrations algorithms for max. SAR evaluation	E.5	2.10	R	1.73	1.00	1.00	1.21	1.21	00
System validation source									
Deviation of experimental dipole from numerical dipole	E.6.4	4.80	N	1.00	1.00	1.00	4.80	4.80	8
Input power and SAR drift measurement	8,6.6.4	5.10	R	1.73	1.00	1.00	2.94	2.94	8
Dipole axis to liquid distance	8,E.6.6	2.40	R	1.73	1.00	1.00	1.39	1.39	8
Phantom and set-up								•	
Phantom shell uncertainty— shape, thickness, and permittivity	E.3.1	3.70	R	1.73	1.00	1.00	2.14	2.14	8
Uncertainty in SAR correction for deviations in permittivity and conductivity	E.3.2	1.90	N	1.00	1.00	0.84	1.90	1.60	8
Liquid conductivity (temperature uncertainty)	E.3.3	2.40	R	1.73	0.78	0.71	1.08	0.98	00
Liquid conductivity (measured)	E.3.3	4.10	N	1.00	0.78	0.71	3.20	2.91	М
Liquid permittivity (temperature uncertainty)	E.3.4	2.70	R	1.73	0.23	0.26	0.36	0.41	8
Liquid permittivity (measured)	E.3.4	4.80	N	1.00	0.23	0.26	1.10	1.25	М
Combined Standard Uncertainty			RSS				9.72	9.52	
Expanded Uncertainty (95% Confidence interval)			K=2				19.44	19.03	



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		SATIMO	O Uncertaint	y- SN 08/21	I EPGO352				
	System	Check unc	ertainty for [OUT averag	ed over 1 gr	am / 10 gram	١.		
Uncertainty Component	Sec.	Tol	Prob. Dist.	Div.	Ci (1g)	Ci (10g)	1g Ui (+- %)	10g Ui (+-%)	vi
		(+- %)							je.
Measurement System									
Probe calibration drift	E.2.1.3	5.72	N	1.00	1.00	1.00	5.72	5.72	00
Axial Isotropy	E.2.2	0.18	R	1.73	0.00	0.00	0.00	0.00	00
Hemispherical Isotropy	E.2.2	1.04	R	1.73	0.00	0.00	0.00	0.00	8
Boundary effect	E.2.3	0.8	R	1.73	0.00	0.00	0.00	0.00	00
Linearity	E.2.4	1.25	R	1.73	0.00	0.00	0.00	0.00	00
System detection limits	E.2.4	1.20	R	1.73	0.00	0.00	0.00	0.00	00
Modulation response	E2.5	3.42	R	1.73	0.00	0.00	0.00	0.00	00
Readout Electronics	E.2.6	0.26	N	1.00	0.00	0.00	0.00	0.00	00
Response Time	E.2.7	0.17	R	1.73	0.00	0.00	0.00	0.00	00
Integration Time	E.2.8	1.43	R	1.73	0.00	0.00	0.00	0.00	00
RF ambient conditions- Noise	E.6.1	3.51	R	1.73	0.00	0.00	0.00	0.00	00
RF ambient conditions- reflections	E.6.1	3.15	R	1.73	0.00	0.00	0.00	0.00	00
Probe positioner mechanical tolerance	E.6.2	1.2	R	1.73	1.00	1.00	0.69	0.69	00
Probe positioning with respect to phantom shell	E.6.3	1.4	R	1.73	1.00	1.00	0.81	0.81	8
Extrapolation, interpolation, and integrations algorithms for max. SAR evaluation	E.5	3.9	R	1.73	0.00	0.00	0.00	0.00	00
System check source (dipole)						2			
Deviation of experimental dipoles	E.6.4	4.8	N	1.00	1.00	1.00	4.80	4.80	00
Input power and SAR drift measurement	8,6.6.4	5.1	R	1.73	1.00	1.00	2.94	2.94	00
Dipole axis to liquid distance	8,E.6.6	2.4	R	1.73	1.00	1.00	1.39	1.39	00
Phantom and tissue parameters									
Phantom shell uncertainty— shape, thickness, and permittivity	E.3.1	3.7	R	1.73	1.00	1.00	2.14	2.14	8
Uncertainty in SAR correction for deviations in permittivity and conductivity	E.3.2	1.9	N	1.00	1.00	0.84	1.90	1.60	8
Liquid conductivity measurement	E.3.3	2.4	R	1.73	0.78	0.71	1.08	0.98	00
Liquid permittivity measurement	E.3.3	4.1	N	1.00	0.78	0.71	3.20	2.91	М
Liquid conductivity— temperature uncertainty	E.3.4	2.7	R	1.73	0.23	0.26	0.36	0.41	00
Liquid permittivity— temperature uncertainty	E.3.4	4.8	N	1.00	0.23	0.26	1.10	1.25	М
Combined Standard Uncertainty			RSS				5.56	5.20	
Expanded Uncertainty (95% Confidence interval)			K=2				11.12	10.41	



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10. Conducted Power Measurement

10.1 Test Result

2.4G WLAN

	2.4GWIFI							
Mode	Channel Number	Frequency (MHz)	Average Power (dBm)	Output Power (mW)				
	1	2412	14.25	26.61				
802.11b	7	2437	14.42	27.67				
	11	2462	13.75	23.71				
	1	2412	13.35	21.63				
802.11g	7	2437	14.09	25.64				
	11	2462	13.23	21.04				
	1	2412	13.31	21.43				
802.11 n-HT20	7	2437	13.80	23.99				
	11	2462	13.60	22.91				
	3	2422	13.86	24.32				
802.11 n-HT20	6	2437	13.67	23.28				
	9	2452	13.58	22.80				

Bluetooth

BDR+EDR						
Mode	GFSK	Pi/4DQPSK	8DPSK			
Average Power (dBm)	3.833	1.164	1.667			

BLE

BLE							
Mode	Channel Number	Frequency (MHz)	Average Power	Output Power			
Wiode	Wode Charmer Number		(dBm)	(mW)			
	0	2402	2.118	1.63			
GFSK(1Mbps)	19	2440	2.008	1.59			
	39	2480	1.374	1.37			



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11. EUT and Test Setup Photo

11.1 EUT Photo





Back side





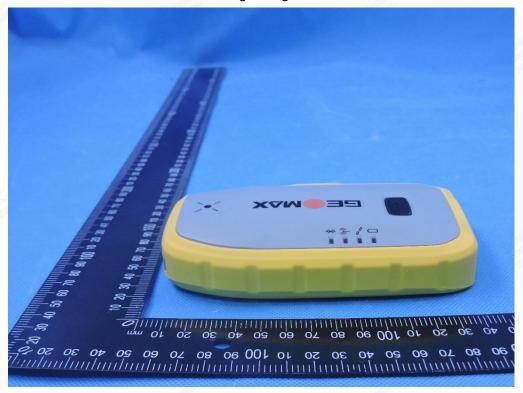
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Left Edge



Right Edge





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Top Edge



Bottom Edge



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Body Back side(separation distance is 0mm)



Body Front side(separation distance is 0mm)



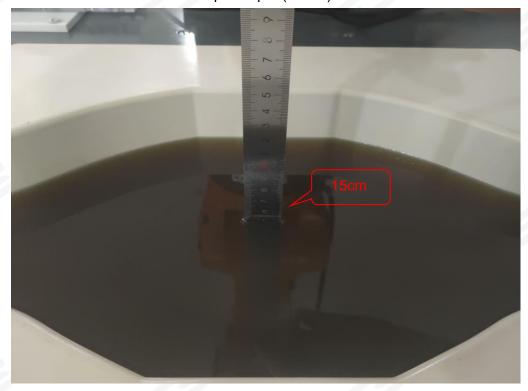


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Body Bottom Side (separation distance is 0mm)



Liquid depth (15 cm)





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12. SAR Result Summary

12.1 Body SAR

Band	Model	Test Position	Freq.	SAR (1g) (W/kg)	Power Drift(%)	Max.Turn- up Power(dBm)	Meas.Output Power(dBm)	Scaled SAR (W/Kg)	Meas.No.
		Front Side	2437	0.379	-1.12	14.50	14.42	0.386	/
0.4011-		Back Side	2412	0.495	-3.62	14.50	14.25	0.524	/
2.4GHz WLAN	802.11b	Back Side	2437	0.538	-0.16	14.50	14.42	0.548	1
VVLAIN		Back Side	2462	0.429	-1.77	14.50	13.75	0.510	/
		Bottom Side	2437	0.107	-2.71	14.50	14.42	0.109	/

Note:

- 1. The test separation of all above table is 0mm.
- 2. BT, BLE and 2.4G WIFI cannot be transmitted at the same time.
- 3. Per KDB 447498 D04, the reported SAR is the measured SAR value adjusted for maximum tune-up tolerance.
 - a. Tune-up scaling Factor = tune-up limit power (mW) / EUT RF power (mW), where tune-up limit is the maximum rated power among all production units.
 - b. Scaled SAR(W/kg)= Measured SAR(W/kg)*Tune-up Scaling Factor



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13. Equipment List

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibration	Calibrated Until
2450MHzDipole	MVG	SID2450	SN 30/14 DIP2G450-335	2023.07.04	2026.07.03
E-Field Probe	MVG	SSE2	SN 08/21 EPGO352	2024.09.18	2025.09.17
Dielectric Probe Kit	MVG	SCLMP	SN 32/14 OCPG67	2024.09.18	2025.09.17
Antenna	MVG	ANTA3	SN 07/13 ZNTA52	N/A	N/A
Phantom1	MVG	SAM	SN 32/14 SAM115	N/A	N/A
Phantom3	MVG	SAM	SN 21/21 ELLI48	N/A	N/A
Phone holder	MVG	N/A	SN 32/14 MSH97	N/A	N/A
Laptop holder	MVG	N/A	SN 32/14 LSH29	N/A	N/A
Attenuator	Agilent	99899	DC-18GHz	N/A	N/A
Attenuator	Agilent	HXT-10-8-SMA	240327017	2024-04-08	2025-04-07
Directional coupler	Narda	4226-20	3305	N/A	N/A
Directional coupler	Xi'an Xingbo	XBOH-OA08- 20dB	211123-4-3	2024-04-15	2025-04-14
Network Analyzer	Agilent	E5071C	MY46520378	2024-09-25	2025-09-26
Multi Meter	Keithley	Multi Meter 2000	4050073	2024-09-25	2025-09-26
Signal Generator	Agilent	N5182A	MY50140530	2024-09-25	2025-09-26
Wireless Communication Test Set	R&S	CMW500	156324	2024-09-25	2025-09-26
Power Amplifier	DESAY	ZHL-42W	9638	2024-09-25	2025-09-26
Power Meter	R&S	NRP	100510	2024-09-25	2025-09-26
Power Sensor	R&S	NRP-Z11	101919	2024-09-25	2025-09-26
Power Sensor	Keysight	U2021XA	MY56280002	2024-09-25	2025-09-26
Temperature hygrometer	SuWei	SW-108	N/A	2024.10.15	2025.10.14
Thermograph	Elitech	RC-4	S/N EF7176501537	2024.10.15	2025.10.14



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Appendix A. System Validation Plots

System Performance Check Data (2450MHz)

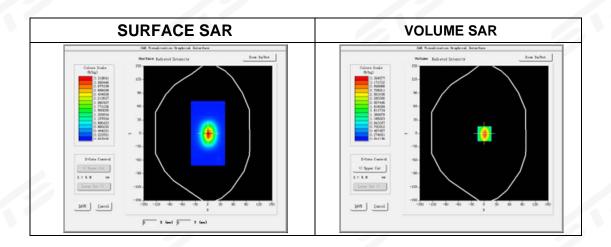
Type: Phone measurement (Complete)
Area scan resolution: dx=8mm, dy=8mm

Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 2024-12-17

Experimental conditions.

Device Position	Validation plane			
Band	2450 MHz			
Channels	-			
Signal	CW			
Frequency (MHz)	2450			
Relative permittivity	40.41			
Conductivity (S/m)	1.81			
Probe	SN 08/21 EPGO352			
ConvF	1.80			
Crest factor:	1:1			



Maximum location: X=3.00, Y=1.00

SAR 10g (W/Kg)	2.466541
SAR 1g (W/Kg)	5.498161



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Z Axis Scan

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9.68 - 8.00 - 2.00 - 2.00 - 0.02.55.07.5 12.5 17.5 22.5 27.5 32.5 40.0 Z (nm)



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Appendix B. SAR Test Plots

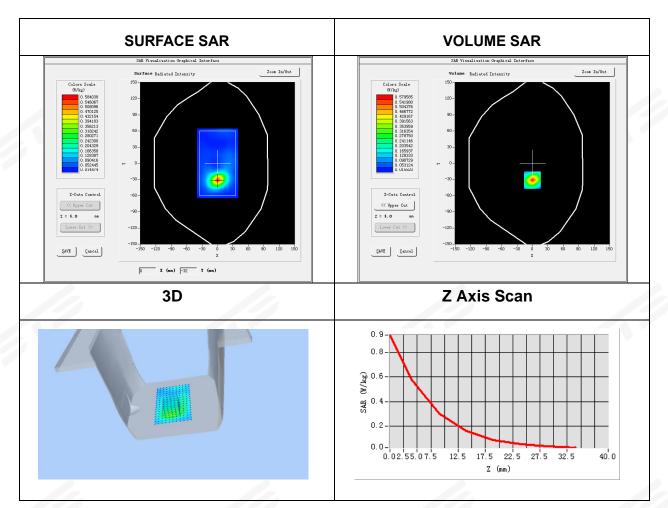
Plot 1: DUT: Zenith06 Pro; EUT Model: Zenith06 Pro

Test Date	2024-12-17
ConvF	1.80
Probe	SN 08/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	7x7x12, dx=4mm, dy=4mm, dz=2mm,
Phantom	Validation plane
Device Position	Back Side
Band	2.4GHz WLAN
Signal	IEEE802.b (Crest factor: 1.0)
Frequency (MHz)	2437
Relative permittivity (real part)	40.41
Conductivity (S/m)	1.81

Maximum location: X=0.00, Y=-31.00

SAR Peak: 0.93 W/kg

SAR 10g (W/Kg)	0.241950
SAR 1g (W/Kg)	0.538221





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Appendix C. Probe Calibration and Dipole Calibration Report

Refer the appendix Calibration Report.

*****END OF THE REPORT***