SAR Test Report

Report No.: STS2505058H02

Issued for

Arashi Vision Inc.

11th Floor, Building 2, Jinlitong Financial Center, Bao'an District, 518000 Shenzhen, Guangdong, China.

Product Name:	Insta360 GO Ultra Standalone Camera
Brand Name:	Insta360
Model Name:	CINSABEA
Series Model(s):	N/A
FCC ID:	2AWWH-CINSABEA
Test Standard:	ANSI/IEEE Std. C95.1 FCC 47 CFR Part 2 (2.1093) IEEE Std. 1528-2013
Max. Report SAR (1g)	Head: 0.252 W/kg Body: 0.610 W/kg

TEST REPORT CERTIFICATION

Applicant's name	:	Arashi Vision Inc.
Address	:	11th Floor, Building 2, Jinlitong Financial Center, Bao'an District, 518000 Shenzhen, Guangdong, China.
Manufacturer's Name	:	Arashi Vision Inc.
Address	:	11th Floor, Building 2, Jinlitong Financial Center, Bao'an District, 518000 Shenzhen, Guangdong, China.

Product description

Product name	:	Insta360 GO Ultra Standalone Camera
Brand name	:	Insta360
Model name	:	CINSABEA
Series Model(s) :		N/A
Standards	:	ANSI/IEEE Std. C95.1 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	:	28 May 2025~29 May 2025
Date of Issue	:	05 June 2025
Test Result	:	**Pass**

Testing Engineer : Xin Liu

(Xin.Liu)

Technical Manager : Shi fan. long

(Shifan. Long)

Authorized Signatory : Bovey Yang

(Bovey Yang)

SHENZHEN STS TEST SERVICES CO., LTD. TESTING APPROVAL

Table of Contents

Revision History

Rev.	Issue Date	Report No.	Effect Page	Contents
00	05 June 2025	STS2505058H02	ALL	Initial Issue

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	Insta360 GO Ultra Standalone Camera			
Brand Name	Insta360			
Model Name	CINSABEA			
Series Model	N/A			
Model Difference	N/A			
Sample number	250514006-1			
Battery	Rated Voltage:3.87V Charge Limit Voltage:4.45V Capacity: 500mAh			
Device Category	Portable			
Product stage	Production unit			
RF Exposure Environment	General Population / Uncontrolled			
Hardware Version	N/A			
Software Version	N/A			
Frequency Range	WLAN802.11b/g/n20/ac20/ax20: 2412 MHz ~ 2462 MHz WLAN 802.11n40/ac40/ax40: 2422 MHz ~ 2452 MHz WLAN 802.11a/n20/n40/ac20/ac40/ac80/ax20/ax40/ax80: 5150 ~ 5250 MHz WLAN 802.11a/n20/n40/ac20/ac40/ac80/ax20/ax40/ax80: 5250 ~ 5350 MHz WLAN 802.11a/n20/n40/ac20/ac40/ac80/ax20/ax40/ax80: 5470 ~ 5725 MHz WLAN 802.11a/n20/n40/ac20/ac40/ac80/ax20/ax40/ax80: 5725 ~ 5850 MHz BT: 2402 MHz to 2480 MHz			
Max. Reported SAR(1g): (Limit:1.6W/kg) Test distance: Head:0mm Body:5mm	Band	Mode	Head (W/kg)	Body Worn (W/kg)
	DTS	2.4G WLAN	0.168	0.327
	DSS	BT	0.084	0.128
	NII	5.2G WLAN	0.240	0.610
	NII	5.3G WLAN	0.252	0.600
	NII	5.6G WLAN	0.207	0.498
	NII	5.8G WLAN	0.199	0.332
FCC Equipment Class	Part 15 Spread Spectrum Transmitter (DSS) Digital Transmission System (DTS) Unlicensed National Information Infrastructure TX(NII)			
Operating Mode:	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 802.11n(OFDM):BPSK,QPSK,16-QAM,64-QAM 802.11ac(OFDM):BPSK,QPSK,16-QAM,64-QAM,256-QAM 802.11ax(OFDM):BPSK,QPSK,16-QAM,64-QAM Bluetooth: GFSK +π/4DQPSK+8DPSK BLE: GFSK			

Antenna Specification:	Bluetooth: FPC Antenna WLAN: FPC Antenna
Hotspot Mode	Not Support
DTM Mode	Not Support
Note: 1. The EUT battery must be fully charged and checked periodically during the test to ascertain uniform power	

1.2 Test Environment

Ambient conditions in the SAR laboratory:

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

1.3 Test Factory

ShenZhen STS Test Services Co.,Ltd.

101, Building B, Zhuoke Science Park, No.190 Chongqing Road, ZhanChengShequ, Fuhai Sub-District, Bao'an District, Shenzhen, Guang Dong, China

FCC test Firm Registration No.: 625569

IC Registration No.: 12108A

A2LA Certificate No.: 4338.01

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	IEEE Std C95.1, 2019	IEEE Standard for Safety Levels with Respect to Human Exposure to Electric,Magnetic, and Electromagnetic Fields,0 Hz to 300 GHz. It specifies the maximum exposure limit of 1.6 W/kg as averaged over any 1 gram of tissue for portable devices being used within 20 cm of the user in the uncontrolled environment.
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
10	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

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:

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

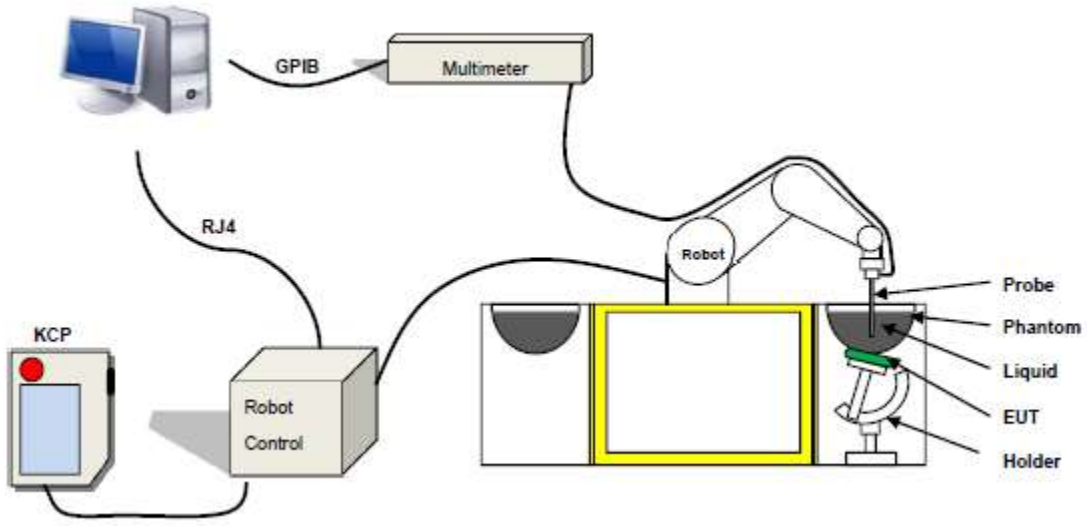
SAR is expressed in units of Watts per kilogram (W/kg) SAR measurement can be related to the electrical field in the tissue by

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

Where: σ is the conductivity of the tissue,
ρ 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

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

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.

SN 32/14 SAM115

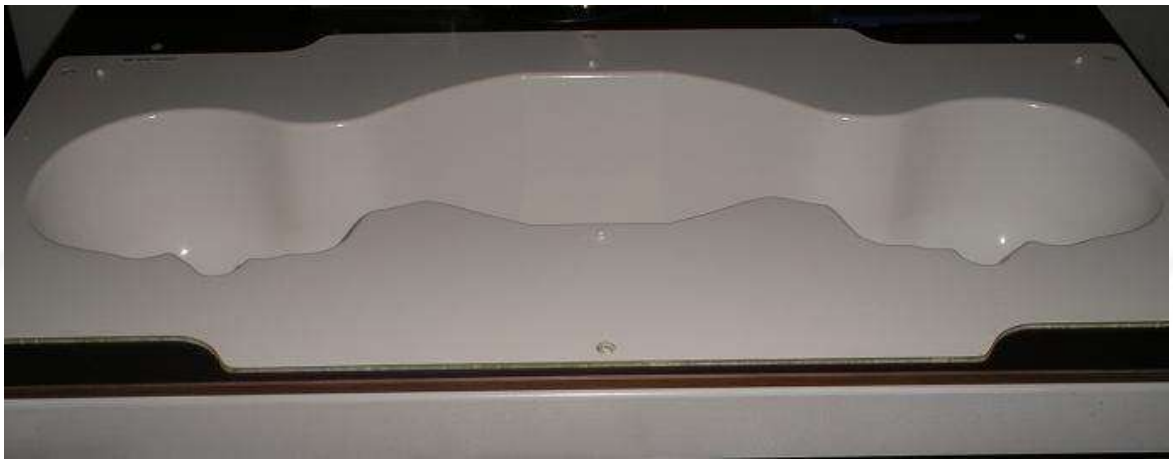


Figure-SN 21/21 ELLI48

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 ± 0.5 mm would produce a SAR uncertainty of ± 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

4. Tissue Simulating Liquids

4.1 Simulating Liquids Parameter Check

The simulating liquids should be checked at the beginning of a series of SAR measurements to determine of the dielectric parameters are within the tolerances of the specified target values

The uncertainty due to the liquid conductivity and permittivity arises from two different sources. The first source of error is the deviation of the liquid conductivity from its target value (max _ 5 %) and the second source of error arises from the measurement procedures used to assess conductivity. The uncertainty shall be assessed using a rectangular probability For 1 g averaging, the maximum weighting coefficient for SAR is 0,5.

IEEE SCC-34/SC-2 RECOMMENDED TISSUE DIELECTRIC PARAMETERS

The head and body tissue dielectric parameters recommended by the IEEE SCC-34/SC-2 have been incorporated in the following table.

Frequency	εr	σ 10g S/m
300	45.3	0.87
450	43.5	0.87
750	41.9	0.89
835	41.5	0.90
900	41.5	0.97
1450	40.5	1.20
1800 to 2000	40.0	1.40
2100	39.8	1.49
2450	39.2	1.80
2600	39.0	1.96
3000	38.5	2.40
3500	37.9	2.91
4000	37.4	3.43
4500	36.8	3.94
5000	36.2	4.45
5200	36.0	4.66
5400	35.8	4.86
5600	35.5	5.07
5800	35.3	5.27

The following table gives the recipes for tissue simulating liquid and the theoretical Conductivity/Permittivity.

Head (Reference IEEE1528)								
Frequency (MHz)	Water (%)	Sugar (%)	Cellulose (%)	Salt (%)	Preventol (%)	DGBE (%)	Conductivity σ (S/m)	Permittivity ε
750	41.1	57.0	0.2	1.4	0.2	0	0.89	41.9
835	40.3	57.9	0.2	1.4	0.2	0	0.90	41.5
900	40.3	57.9	0.2	1.4	0.2	0	0.97	41.5
1800, 1900, 2000	55.2	0	0	0.3	0	44.5	1.4	40.0
2450	55.0	0	0	0.1	0	44.9	1.80	39.2
2600	54.9	0	0	0.1	0	45.0	1.96	39.0
Frequency (MHz)	Water (%)	Hexyl Carbitol (%)			Triton X-100 (%)		Conductivity σ (S/m)	Permittivity ε
5200	62.52	17.24			17.24		4.66	36.0
5800	62.52	17.24			17.24		5.27	35.3
Body (From instrument manufacturer)								
Frequency (MHz)	Water (%)	Sugar (%)	Cellulose (%)	Salt (%)	Preventol (%)	DGBE (%)	Conductivity σ (S/m)	Permittivity ε
750	51.7	47.2	0	0.9	0.1	0	0.96	55.5
835	50.8	48.2	0	0.9	0.1	0	0.97	55.2
900	50.8	48.2	0	0.9	0.1	0	1.05	55.0
1800, 1900, 2000	70.2	0	0	0.4	0	29.4	1.52	53.3
2450	68.6	0	0	0.1	0	31.3	1.95	52.7
2600	68.2	0	0	0.1	0	31.7	2.16	52.5
Frequency(MHz)	Water	DGBE (%)			Salt (%)		Conductivity σ (S/m)	Permittivity ε
5200	78.60	21.40			/		5.30	49.00
5800	78.50	21.40			0.1		6.00	48.20

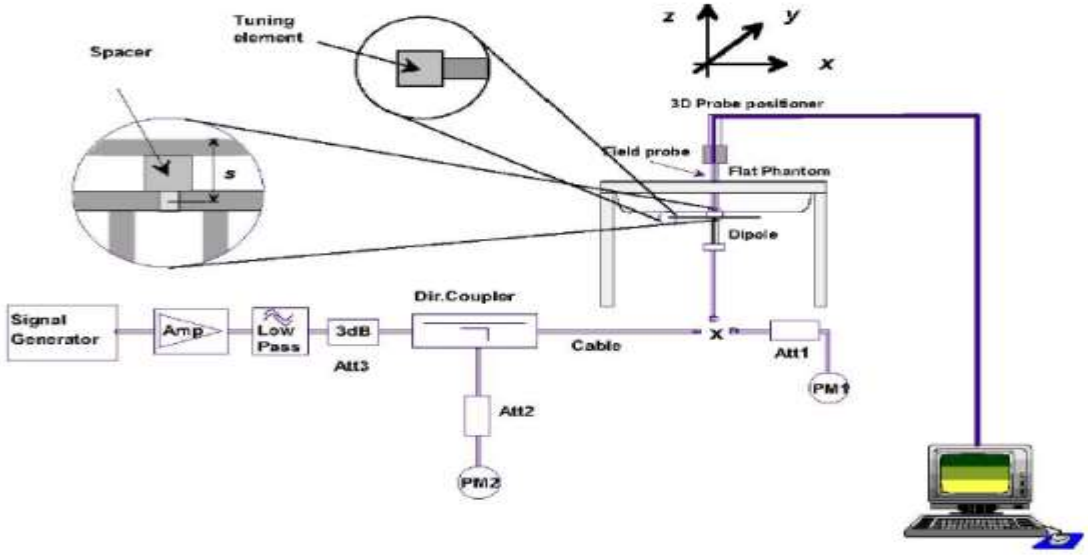
LIQUID MEASUREMENT RESULTS

Date	Ambient		Simulating Liquid		Parameters	Target	Measured	Deviation %	Limited %
	Temp. [°C]	Humidity %	Frequency (MHz)	Temp. [°C]					
2025-05-28	22.8	42	2437	22.5	Permittivity	39.22	40.13	2.31	±5
					Conductivity	1.79	1.80	0.65	±5
2025-05-28	22.8	42	2441	22.5	Permittivity	39.22	39.70	1.23	±5
					Conductivity	1.79	1.79	-0.11	±5
2025-05-28	22.9	43	2450	22.6	Permittivity	39.20	39.62	1.07	±5
					Conductivity	1.80	1.83	1.67	±5
2025-05-28	22.8	42	5180	22.2	Permittivity	36.02	36.87	2.36	±5
					Conductivity	4.64	4.60	-0.84	±5
2025-05-28	22.8	42	5200	22.3	Permittivity	36.00	36.60	1.67	±5
					Conductivity	4.66	4.63	-0.64	±5
2025-05-28	22.8	42	5240	22.3	Permittivity	35.96	36.83	2.42	±5
					Conductivity	4.70	4.64	-1.32	±5
2025-05-28	22.8	42	5260	22.2	Permittivity	35.94	36.08	0.39	±5
					Conductivity	4.72	4.70	-0.42	±5
2025-05-28	22.8	42	5300	22.3	Permittivity	35.90	36.33	1.20	±5
					Conductivity	4.76	4.81	1.05	±5
2025-05-29	21.5	48	5600	22.9	Permittivity	35.55	36.61	2.98	±5
					Conductivity	5.07	5.02	-0.89	±5
2025-05-29	21.5	48	5670	22.9	Permittivity	35.46	36.40	2.64	±5
					Conductivity	5.14	5.20	1.23	±5
2025-05-29	21.5	48	5755	22.9	Permittivity	35.35	36.28	2.65	±5
					Conductivity	5.22	5.13	-1.78	±5
2025-05-29	21.5	48	5800	22.9	Permittivity	35.30	35.47	0.48	±5
					Conductivity	5.27	5.30	0.57	±5

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

Justification for Extended SAR Dipole Calibrations

Usage of SAR dipoles calibrated less than 3 years ago but more than 1 year ago were confirmed in maintaining retum loss (>20 dB, within 20% of prior calibration) and impedance (within 5 ohm from prior calibration) requirements per extended calibrations in KDB 865664 D01:

Dipole		Date of Measurement	Return Loss (dB)	Delta (%)	Impedance	Delta(ohm)
SN 30/14 DIP2G450-335	Head Liquid	2023-07-04	-26.03	/	46.3	/
		2024-07-01	-26.42	1.50	47.25	2.05
SN 13/14 WGA32	Head Liquid	2023-07-04	-8.23	/	/	/
		2024-07-01	-13.17	/	/	/

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

Date	Freq.	Power	Tested Value	Normalized SAR	Target SAR	Tolerance	Limit
	(MHz)	(mW)	(W/Kg)	(W/kg)	1g(W/kg)	(%)	(%)
2025-05-28	2450	100	5.382	53.82	54.70	-1.61	10
2025-05-28	5200	100	16.194	161.94	163.88	-1.18	10
2025-05-28	5400	100	16.658	166.58	172.23	-3.28	10
2025-05-29	5600	100	17.651	176.51	181.28	-2.63	10
2025-05-29	5800	100	19.092	190.92	188.95	1.04	10

Note:

1. 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.

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 to16 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

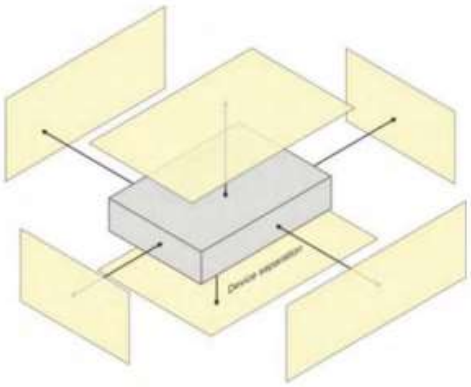
First Area Scan is used to locate the approximate location(s) of the local peak SAR value(s). The measurement grid within an Area Scan is defined by the grid extent, grid step size and grid offset. Next, in order to determine the EM field distribution in a three-dimensional spatial extension, Zoom Scan 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.

7. EUT Test Position

This EUT was tested in Front Face and Rear Face.

7.1 Body-worn Position Conditions

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 D04 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.



8. Uncertainty

8.1 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.

SATIMO Uncertainty- SN 08/21 EPGO352									
Measurement uncertainty for DUT averaged over 1 gram / 10 gram.									
Uncertainty Component	Sec.	Tol (+- %)	Prob. Dist.	Div.	Ci (1g)	Ci (10g)	1g Ui (+- %)	10g Ui (+- %)	vi
Measurement System									
Probe calibration	E.2.1	5.72	N	1.00	1.00	1.00	5.72	5.72	∞
Axial Isotropy	E.2.2	0.18	R	1.73	0.71	0.71	0.07	0.07	∞
Hemispherical Isotropy	E.2.2	1.04	R	1.73	0.71	0.71	0.42	0.42	∞
Boundary effect	E.2.3	0.80	R	1.73	1.00	1.00	0.46	0.46	∞
Linearity	E.2.4	1.25	R	1.73	1.00	1.00	0.72	0.72	∞
System detection limits	E.2.4	1.20	R	1.73	1.00	1.00	0.69	0.69	∞
Modulation response	E2.5	3.42	R	1.73	1.00	1.00	1.97	1.97	∞
Readout Electronics	E.2.6	0.26	N	1.00	1.00	1.00	0.26	0.26	∞
Response Time	E.2.7	0.17	R	1.73	1.00	1.00	0.10	0.10	∞
Integration Time	E.2.8	1.43	R	1.73	1.00	1.00	0.83	0.83	∞
RF ambient conditions-Noise	E.6.1	3.51	R	1.73	1.00	1.00	2.03	2.03	∞
RF ambient conditions-reflections	E.6.1	3.15	R	1.73	1.00	1.00	1.82	1.82	∞
Probe positioner mechanical tolerance	E.6.2	1.20	R	1.73	1.00	1.00	0.69	0.69	∞
Probe positioning with respect to phantom shell	E.6.3	1.40	R	1.73	1.00	1.00	0.81	0.81	∞
Extrapolation, interpolation, and integrations algorithms for max. SAR evaluation	E.5	2.10	R	1.73	1.00	1.00	1.21	1.21	∞
Test sample Related									
Test sample positioning	E.4.2	3.10	N	1.00	1.00	1.00	3.10	3.10	∞
Device holder uncertainty	E.4.1	3.80	N	1.00	1.00	1.00	3.80	3.80	∞
Output power variation—SAR drift measurement	E.2.9	4.50	R	1.73	1.00	1.00	2.60	2.60	∞
SAR scaling	E.6.5	1.80	R	1.73	1.00	1.00	1.04	1.04	∞
Phantom and tissue parameters									
Phantom shell uncertainty—shape, thickness, and permittivity	E.3.1	3.70	R	1.73	1.00	1.00	2.14	2.14	∞
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	∞
Liquid conductivity measurement	E.3.3	2.40	R	1.73	0.78	0.71	1.08	0.98	M
Liquid permittivity measurement	E.3.3	4.10	N	1.00	0.78	0.71	3.20	2.91	M
Liquid conductivity—temperature uncertainty	E.3.4	2.70	R	1.73	0.23	0.26	0.36	0.41	∞
Liquid permittivity—temperature uncertainty	E.3.4	4.80	N	1.00	0.23	0.26	1.10	1.25	∞
Combined Standard Uncertainty			RSS				10.08	9.59	
Expanded Uncertainty (95% Confidence interval)			K=2				19.58	19.18	

SATIMO Uncertainty- SN 08/21 EPGO352									
System Validation uncertainty for DUT averaged over 1 gram / 10 gram.									
Uncertainty Component	Sec.	Tol (+- %)	Prob. Dist.	Div.	Ci (1g)	Ci (10g)	1g Ui (+- %)	10g Ui (+-%)	vi
Measurement System									
Probe calibration	E.2.1	5.72	N	1.00	1.00	1.00	5.72	5.72	∞
Axial Isotropy	E.2.2	0.18	R	1.73	1.00	1.00	0.10	0.10	∞
Hemispherical Isotropy	E.2.2	1.04	R	1.73	0.00	0.00	0.00	0.00	∞
Boundary effect	E.2.3	0.80	R	1.73	1.00	1.00	0.46	0.46	∞
Linearity	E.2.4	1.25	R	1.73	1.00	1.00	0.72	0.72	∞
System detection limits	E.2.4	1.20	R	1.73	1.00	1.00	0.69	0.69	∞
Modulation response	E2.5	3.42	R	1.73	0.00	0.00	0.00	0.00	∞
Readout Electronics	E.2.6	0.26	N	1.00	1.00	1.00	0.26	0.26	∞
Response Time	E.2.7	0.17	R	1.73	0.00	0.00	0.00	0.00	∞
Integration Time	E.2.8	1.43	R	1.73	0.00	0.00	0.00	0.00	∞
RF ambient conditions-Noise	E.6.1	3.51	R	1.73	1.00	1.00	2.03	2.03	∞
RF ambient conditions-reflections	E.6.1	3.15	R	1.73	1.00	1.00	1.82	1.82	∞
Probe positioner mechanical tolerance	E.6.2	1.20	R	1.73	1.00	1.00	0.69	0.69	∞
Probe positioning with respect to phantom shell	E.6.3	1.40	R	1.73	1.00	1.00	0.81	0.81	∞
Extrapolation, interpolation, and integrations algorithms for max. SAR evaluation	E.5	2.10	R	1.73	1.00	1.00	1.21	1.21	∞
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	∞
Input power and SAR drift measurement	8,6.6.4	5.10	R	1.73	1.00	1.00	2.94	2.94	∞
Dipole axis to liquid distance	8,E.6.6	2.40	R	1.73	1.00	1.00	1.39	1.39	∞
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	∞
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	∞
Liquid conductivity (temperature uncertainty)	E.3.3	2.40	R	1.73	0.78	0.71	1.08	0.98	∞
Liquid conductivity (measured)	E.3.3	4.10	N	1.00	0.78	0.71	3.20	2.91	M
Liquid permittivity (temperature uncertainty)	E.3.4	2.70	R	1.73	0.23	0.26	0.36	0.41	∞
Liquid permittivity (measured)	E.3.4	4.80	N	1.00	0.23	0.26	1.10	1.25	M
Combined Standard Uncertainty			RSS				9.72	9.52	
Expanded Uncertainty (95% Confidence interval)			K=2				19.44	19.03	

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

9. Conducted Power Measurement

9.1 Test Result

2.4G WLAN

2.4GWIFI				
Mode	Channel Number	Frequency (MHz)	Peak Power [dBm]	Output Power (mW)
802.11b	1	2412	14.19	26.24
	6	2437	14.68	29.38
	11	2462	14.35	27.23
802.11g	1	2412	14.16	26.06
	6	2437	14.28	26.79
	11	2462	14.20	26.30
802.11 n-HT20	1	2412	14.16	26.06
	6	2437	14.49	28.12
	11	2462	14.16	26.06
802.11 n-HT40	3	2412	14.16	26.06
	6	2437	14.34	27.16
	9	2462	14.24	26.55
802.11ax20	1	2412	14.32	27.04
	6	2437	14.34	27.16
	11	2462	14.34	27.16
802.11ax40	3	2412	14.60	28.84
	6	2437	14.94	31.19
	9	2462	14.77	29.99

BT

BT				
Mode	Channel Number	Frequency (MHz)	Peak Power[dBm)	Output Power (mW)
GFSK(1Mbps)	0	2402	10.39	10.94
	39	2441	11.00	12.59
	78	2480	10.95	12.45
π/4-QPSK(2Mbps)	0	2402	9.63	9.18
	39	2441	10.31	10.74
	78	2480	10.29	10.69
8DPSK(3Mbps)	0	2402	9.73	9.40
	39	2441	10.43	11.04
	78	2480	10.47	11.14

BLE

BLE				
Mode	Channel Number	Frequency (MHz)	Peak Power[dBm)	Output Power (mW)
GFSK(1Mbps)	0	2402	10.31	10.74
	19	2440	10.91	12.33
	39	2480	10.90	12.30
GFSK(2Mbps)	0	2402	10.24	10.57
	19	2440	10.83	12.11
	39	2480	10.81	12.05

5.2G WLAN

5.2G WLAN				
Mode	Channel Number	Frequency (MHz)	Average Power (dBm)	Output Power (mW)
802.11a	36	5180	14.51	28.25
	40	5200	14.24	26.55
	48	5240	14.69	29.44
802.11 n-HT20	36	5180	15.43	34.91
	40	5200	15.26	33.57
	48	5240	15.52	35.65
802.11 n-HT40	38	5190	15.91	38.99
	46	5230	15.32	34.04
802.11ac-VHT20	36	5180	15.47	35.24
	40	5200	15.36	34.36
	48	5240	15.65	36.73
802.11ac-VHT40	38	5190	15.92	39.08
	46	5230	15.44	34.99
802.11ac-VHT80	42	5210	15.54	35.81
802.11 ax-HEW20	36	5180	16.5	44.67
	40	5200	16.25	42.17
	48	5240	15.86	38.55
802.11 ax-HEW40	38	5190	16.12	40.93
	46	5230	15.55	35.89
802.11 ax-HEW80	42	5210	15.58	36.14

5.3G WLAN

5.3G WLAN				
Mode	Channel Number	Frequency (MHz)	Average Power (dBm)	Output Power (mW)
802.11a	52	5260	14.62	28.97
	60	5300	14.28	26.79
	64	5320	14.55	28.51
802.11 n-HT20	52	5260	16.19	41.59
	60	5300	15.97	39.54
	64	5320	15.45	35.08
802.11 n-HT40	54	5270	15.93	39.17
	62	5310	15.48	35.32
802.11ac-VHT20	52	5260	16.29	42.56
	60	5300	16.09	40.64
	64	5320	15.49	35.40
802.11ac-VHT40	54	5270	16.15	41.21
	62	5310	15.41	34.75
802.11ac-VHT80	58	5290	15.54	35.81
802.11 ax-HEW20	52	5260	16.56	45.29
	60	5300	16.08	40.55
	64	5320	15.62	36.48
802.11 ax-HEW40	54	5270	16.39	43.55
	62	5310	15.61	36.39
802.11 ax-HEW80	58	5290	15.72	37.33

5.6G WLAN

5.6G WLAN				
Mode	Channel Number	Frequency (MHz)	Average Power (dBm)	Output Power (mW)
802.11a	100	5500	15.11	32.43
	116	5580	15.08	32.21
	140	5700	14.97	31.41
802.11 n-HT20	100	5500	15.45	35.08
	116	5580	16.04	40.18
	140	5700	16.06	40.36
802.11 n-HT40	102	5510	15.94	39.26
	110	5550	15.71	37.24
	134	5670	16.45	44.16
802.11ac-VHT20	100	5500	16.27	42.36
	116	5580	16.05	40.27
	140	5700	15.82	38.19
802.11ac-VHT40	102	5510	15.94	39.26
	110	5550	15.7	37.15
	134	5670	15.67	36.90
802.11ac-VHT80	106	5530	15.7	37.15
802.11 ax-HEW20	100	5500	16.25	42.17
	116	5580	16.05	40.27
	140	5700	16.07	40.46
802.11 ax-HEW40	102	5510	16.08	40.55
	110	5550	15.86	38.55
802.11 ax-HEW80	134	5670	15.78	37.84
	106	5530	15.77	37.76

5.8G WLAN

5.8G WLAN				
Mode	Channel Number	Frequency (MHz)	Average Power (dBm)	Output Power (mW)
802.11a	149	5745	15.09	32.28
	157	5785	14.73	29.72
	165	5825	14.58	28.71
802.11 n-HT20	149	5745	15.71	37.24
	157	5785	15.39	34.59
	165	5825	15.35	34.28
802.11 n-HT40	151	5755	16.26	42.27
	159	5795	16.16	41.30
802.11ac-VHT20	149	5745	15.82	38.19
	157	5785	15.5	35.48
	165	5825	15.49	35.40
802.11ac-VHT40	151	5755	15.6	36.31
	159	5795	15.26	33.57
802.11ac-VHT80	155	5775	15.39	34.59
802.11 ax-HEW20	149	5745	15.84	38.37
	157	5785	15.51	35.56
	165	5825	15.71	37.24
802.11 ax-HEW40	151	5755	15.73	37.41
	159	5795	15.48	35.32
802.11 ax-HEW80	155	5775	15.54	35.81

10. SAR Result Summary

10.1 Head SAR

Band	Model	Test Position	Freq.	SAR (1g) (W/kg)	Power Drift(%)	Max.Turn-up Power(dBm)	Meas.Output Power(dBm)	Scaling Factor	Scaled SAR (W/Kg)	Meas.No.
2.4G WLAN	802.11b	Right Cheek	2437	0.156	0.70	15.00	14.68	1.076	**0.168**	**1**
		Left Cheek	2437	0.123	2.60	15.00	14.68	1.076	0.132	/
BT	GFSK	Right Cheek	2441	0.084	-1.24	11.00	11.00	1.000	**0.084**	**3**
		Left Cheek	2441	0.075	-1.88	11.00	11.00	1.000	0.075	/
5.2G WLAN	802.11ax-VHT-20	Right Cheek	5180	0.214	1.17	17.00	16.50	1.122	**0.240**	**5**
		Left Cheek	5180	0.187	3.11	17.00	16.50	1.122	0.210	/
5.3G WLAN	802.11ax-VHT-20	Right Cheek	5260	0.228	-3.06	17.00	16.56	1.107	**0.252**	**7**
		Left Cheek	5260	0.199	-1.43	17.00	16.56	1.107	0.220	/
5.6G WLAN	802.11 n-HT40	Right Cheek	5670	0.205	-0.93	16.50	16.45	1.012	**0.207**	**9**
		Left Cheek	5670	0.177	-2.79	16.50	16.45	1.012	0.179	/
5.8G WLAN	802.11 n-HT40	Right Cheek	5755	0.188	3.69	16.50	16.26	1.057	**0.199**	**11**
		Left Cheek	5755	0.178	2.90	16.50	16.26	1.057	0.188	/

Note:

1. 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

2. Per KDB 248227- 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 ≤ 1.2 W/kg. (The highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power was **0.154** W/Kg for Head)
3. Per KDB 865664 D01, Repeated measurement is not required when the original highest measured SAR is <0.80 W/kg

10.2 Body-worn SAR

Band	Model	Test Position	Freq.	SAR (1g) (W/kg)	Power Drift(%)	Max.Turn-up Power(dBm)	Meas.Output Power(dBm)	Scaling Factor	Scaled SAR (W/Kg)	Meas.No.
2.4GHz WLAN	802.11b	Front Side	2437	0.145	-3.26	15.00	14.68	1.076	0.156	/
		Back Side	2437	0.112	-2.71	15.00	14.68	1.076	0.121	/
		Left Side	2437	0.068	-1.13	15.00	14.68	1.076	0.073	/
		Right Side	2437	0.071	-1.01	15.00	14.68	1.076	0.076	/
		Top Side	2437	0.304	3.72	15.00	14.68	1.076	**0.327**	**2**
		Bottom Side	2437	0.115	3.93	15.00	14.68	1.076	0.124	/
BT	GFSK	Front Side	2441	0.054	-1.00	11.00	11.00	1.000	0.054	/
		Back Side	2441	0.060	-1.41	11.00	11.00	1.000	0.060	/
		Left Side	2441	0.047	3.13	11.00	11.00	1.000	0.047	/
		Right Side	2441	0.053	-1.50	11.00	11.00	1.000	0.053	/
		Top Side	2441	0.128	-3.13	11.00	11.00	1.000	**0.128**	**4**
		Bottom Side	2441	0.032	-1.36	11.00	11.00	1.000	0.032	/
5.2GHz WLAN	802.11 ax-HEW20	Front Side	5180	0.254	1.94	17.00	16.50	1.122	0.285	/
		Back Side	5180	0.201	2.21	17.00	16.50	1.122	0.226	/
		Left Side	5180	0.146	0.26	17.00	16.50	1.122	0.164	/
		Right Side	5180	0.168	2.77	17.00	16.50	1.122	0.188	/
		Top Side	5180	0.544	3.53	17.00	16.50	1.122	**0.610**	**6**
		Top Side	5200	0.502	3.01	17.00	16.25	1.189	**0.597**	***/***
		Top Side	5240	0.463	2.80	17.00	15.86	1.300	**0.602**	***/***
		Bottom Side	5180	0.153	3.47	17.00	16.50	1.122	0.172	/
5.3GHz WLAN	802.11 ax-HEW20	Front Side	5260	0.221	0.55	17.00	16.56	1.107	0.245	/
		Back Side	5260	0.157	0.58	17.00	16.56	1.107	0.174	/
		Left Side	5260	0.115	0.19	17.00	16.56	1.107	0.127	/
		Right Side	5260	0.106	1.69	17.00	16.56	1.107	0.117	/
		Top Side	5260	0.546	2.43	17.00	16.56	1.107	**0.604**	**8**
		Bottom Side	5260	0.095	3.33	17.00	16.56	1.107	0.105	/
5.6GHz WLAN	802.11 n-HT40	Front Side	5670	0.208	3.86	16.50	16.45	1.012	0.210	/
		Back Side	5670	0.185	3.75	16.50	16.45	1.012	0.187	/
		Left Side	5670	0.169	-1.88	16.50	16.45	1.012	0.171	/
		Right Side	5670	0.156	-3.41	16.50	16.45	1.012	0.158	/
		Top Side	5670	0.492	-1.60	16.50	16.45	1.012	**0.498**	**10**
		Bottom Side	5670	0.085	-1.68	16.50	16.45	1.012	0.086	/

5.8GHz WLAN	802.11 n-HT40	Front Side	5755	0.137	0.10	16.50	16.26	1.057	0.145	/
		Back Side	5755	0.072	-0.73	16.50	16.26	1.057	0.076	/
		Left Side	5755	0.087	-1.04	16.50	16.26	1.057	0.092	/
		Right Side	5755	0.062	2.45	16.50	16.26	1.057	0.066	/
		Top Side	5755	0.314	-1.90	16.50	16.26	1.057	**0.332**	**12**
		Bottom Side	5755	0.055	2.87	16.50	16.26	1.057	0.058	/

Note:

1. The test separation of all above table is 5mm.
2. 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
3. Per KDB 248227- 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 $\leqslant$ 1.2 W/kg. (The highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power was **0.301** W/Kg for Body)
4. When the user enables the personal Wireless router functions for the handsets, actual operations include simultaneous transmission of both the Wi-Fi transmitting frequency and thus cannot be evaluated for SAR under actual use conditions. The “Portable Hotspot” feature on the handset was NOT activated, to ensure the SAR measurements were evaluated for a single transmission frequency RF signal.

11. 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
Waveguide	MVG	SWG5500	SN 13/14 WGA32	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	HXT-10-8-SMA	240327017	2025-02-22	2026-02-21
Directional coupler	Xi'an Xingbo	XBOH-OA08-20dB	211123-4-3	2025-02-22	2026-02-21
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	Agilent	8960-E5515C	MY48360751	2025-02-22	2026-02-21
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

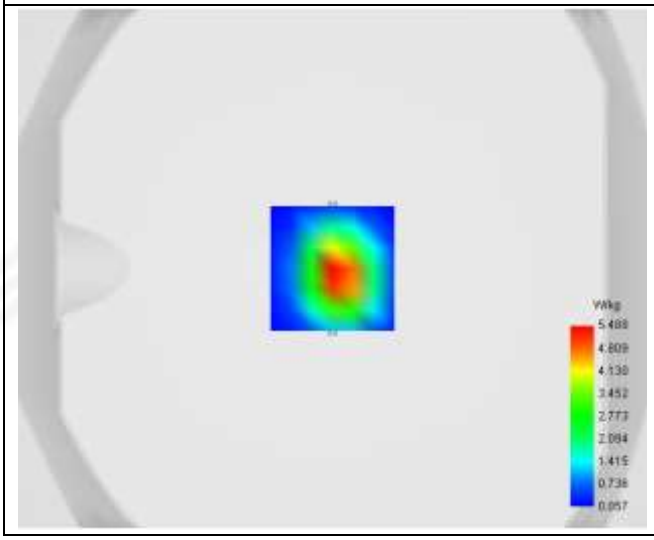
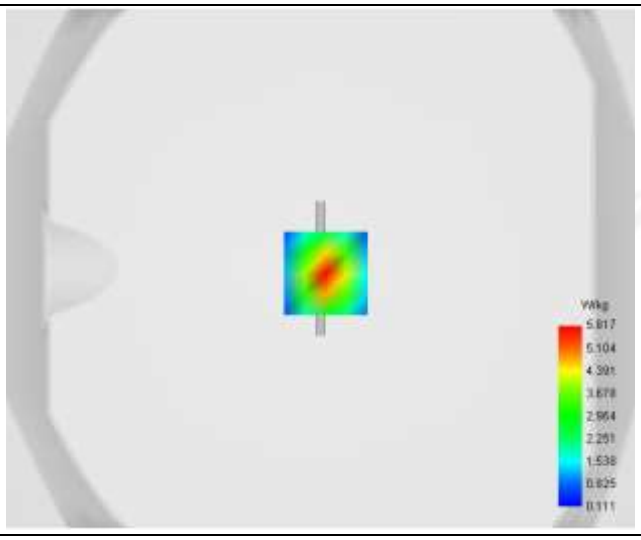
Appendix A. System Validation Plots

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: 2025-05-28

Experimental conditions.

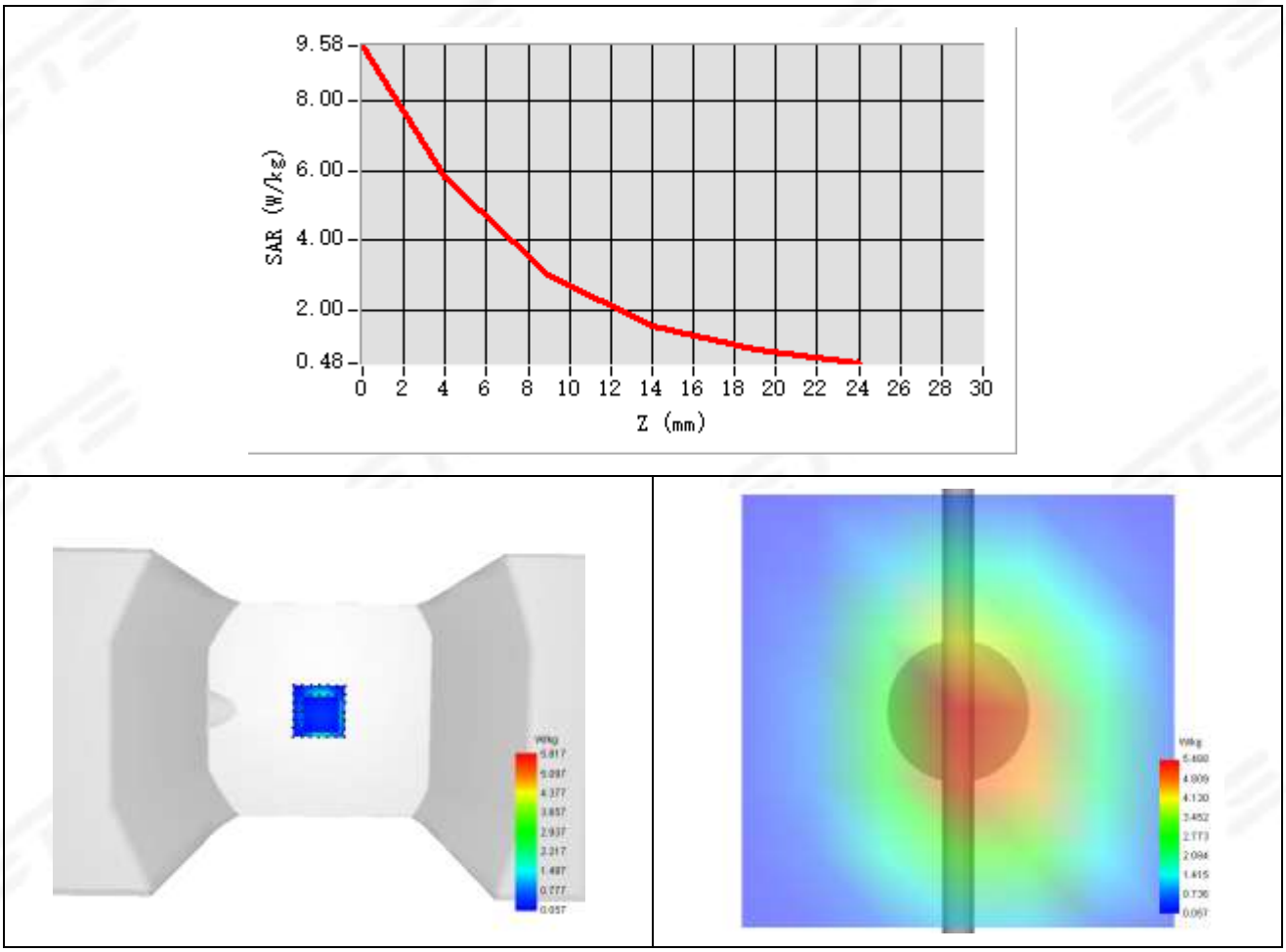
Device Position	Validation plane
Band	2450 MHz
Channels	-
Signal	CW
Frequency (MHz)	2450
Relative permittivity	39.62
Conductivity (S/m)	1.83
Probe	SN 08/21 EPGO352
ConvF	1.80
Crest factor:	1:1

SURFACE SAR	VOLUME SAR
	

Maximum location: X=1.00, Y=0.00

SAR 10g (W/Kg)	2.002
SAR 1g (W/Kg)	5.382
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	51.624549

Z Axis Scan

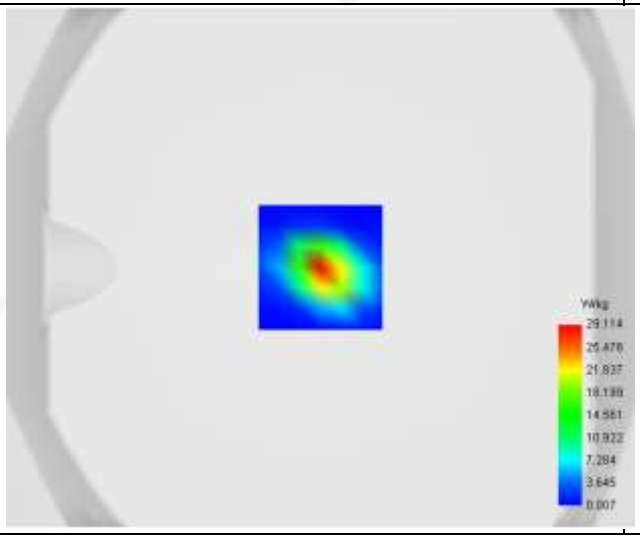
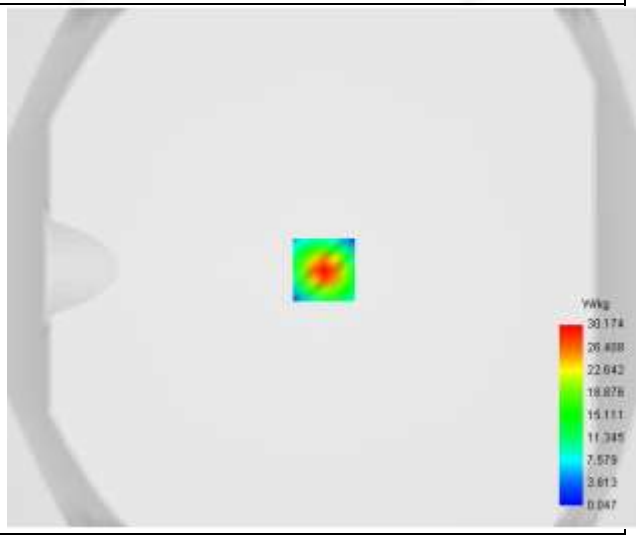

9.58
8.00
6.00
4.00
2.00
0.48
SAR (W/kg)
0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30
Z (mm)

System Performance Check Data (5200MHz)

Type: Dipole measurement (Complete)
Area scan resolution: dx=8mm,dy=8mm
Zoom scan resolution: dx=4mm, dy=4mm, dz=2mm
Date of measurement: 2025-05-28

Experimental conditions.

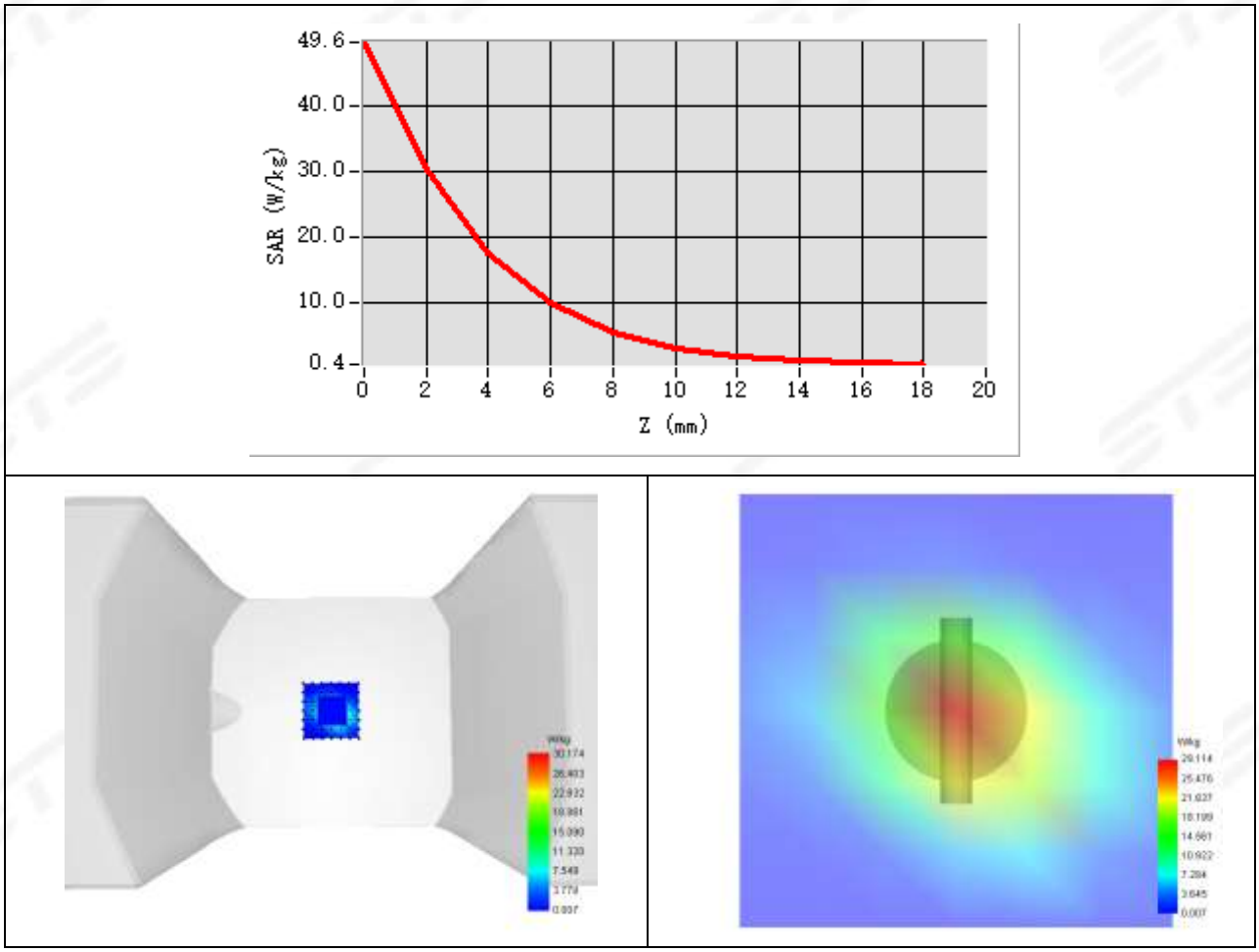
Phantom	Validation plane
Device Position	Dipole
Band	5200MHz
Channels	Middle
Signal	CW
Frequency (MHz)	5200
Relative permittivity	36.60
Conductivity (S/m)	4.63
Probe	SN 08/21 EPGO352
ConvF	1.33
Crest factor:	1:1

SURFACE SAR	VOLUME SAR
	

Maximum location: X=7.00, Y=2.00

SAR 10g (W/Kg)	5.475
SAR 1g (W/Kg)	16.194
Horizontal validation criteria: minimum distance (mm)	8.955623
Vertical validation criteria: SAR ratio M2/M1 (%)	57.987009

Z Axis Scan

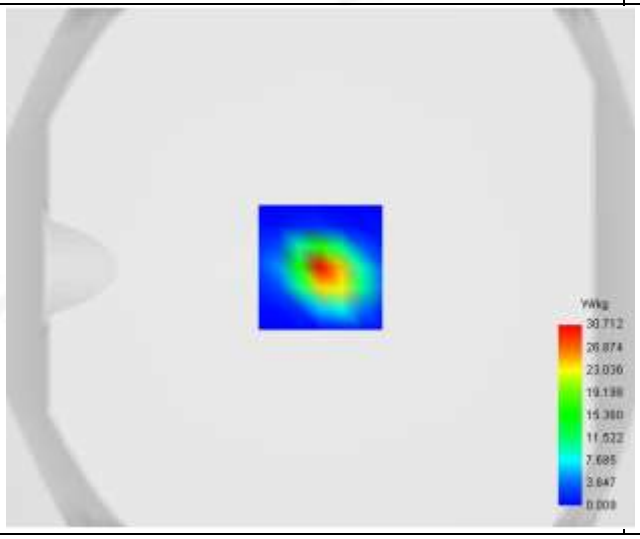
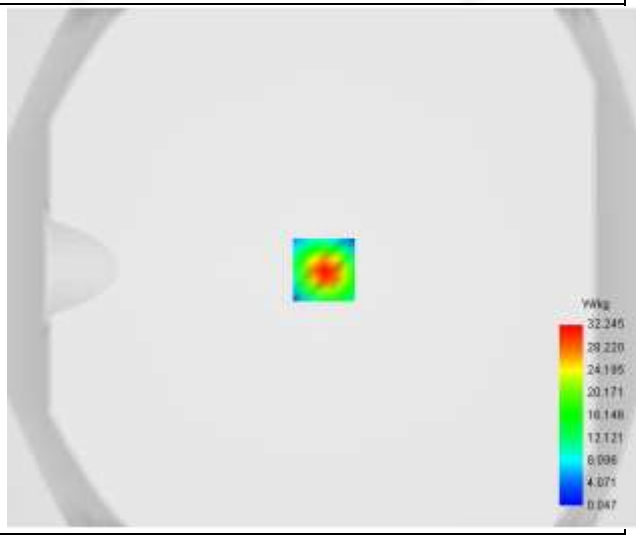


System Performance Check Data (5300MHz)

Type: Dipole measurement (Complete)
Area scan resolution: dx=8mm,dy=8mm
Zoom scan resolution: dx=4mm, dy=4mm, dz=2mm
Date of measurement: 2025-05-28

Experimental conditions.

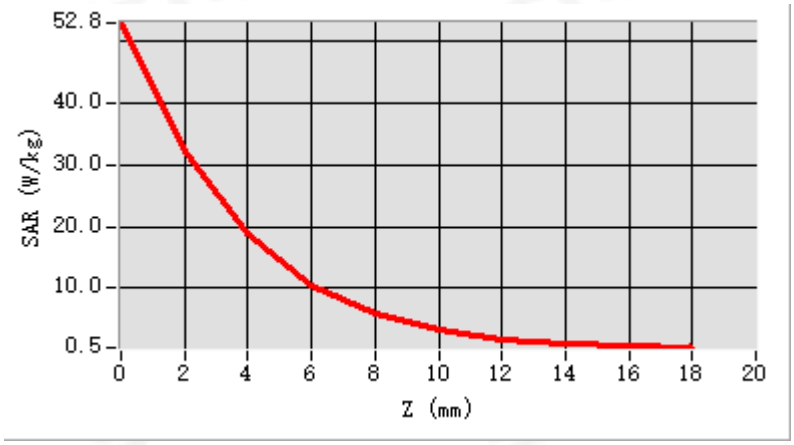
Phantom	Validation plane
Device Position	Dipole
Band	5300MHz
Channels	Middle
Signal	CW
Frequency (MHz)	5300
Relative permittivity	36.33
Conductivity (S/m)	4.81
Probe	SN 08/21 EPGO352
ConvF	1.31
Crest factor:	1:1

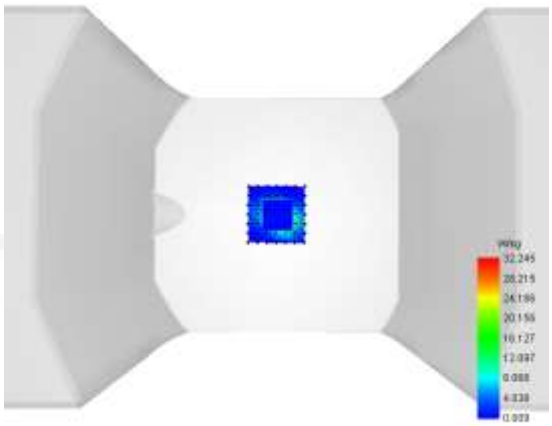
SURFACE SAR	VOLUME SAR
	

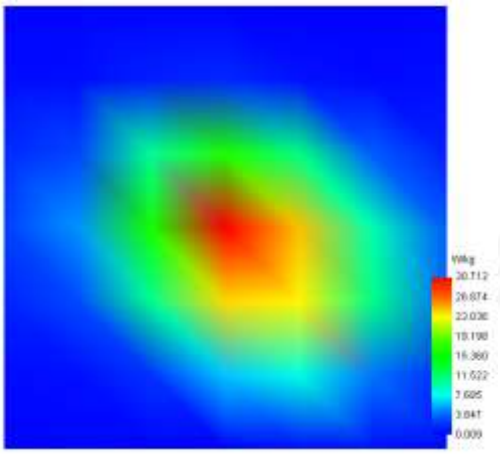
Maximum location: X=7.00, Y=2.00

SAR 10g (W/Kg)	5.776
SAR 1g (W/Kg)	16.658
Horizontal validation criteria: minimum distance (mm)	8.774552
Vertical validation criteria: SAR ratio M2/M1 (%)	58.250892

Z Axis Scan





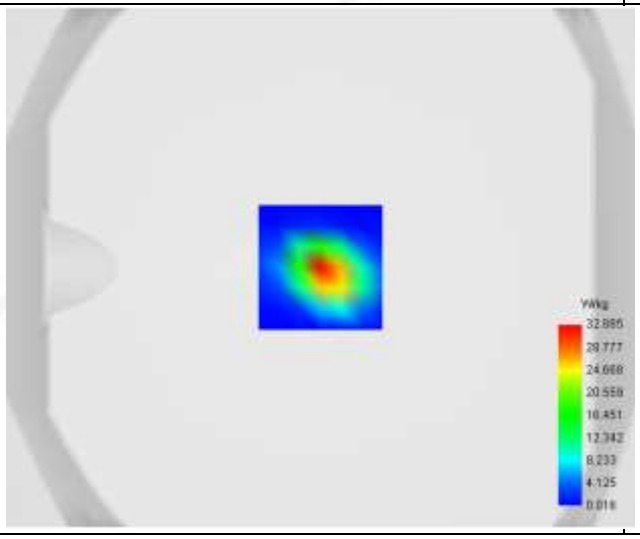
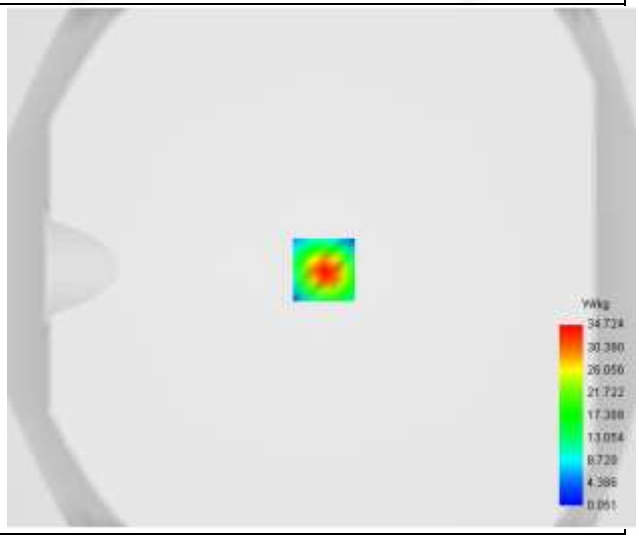


System Performance Check Data (5600MHz)

Type: Dipole measurement (Complete)
Area scan resolution: dx=8mm,dy=8mm
Zoom scan resolution: dx=4mm, dy=4mm, dz=2mm
Date of measurement: 2025-05-29

Experimental conditions.

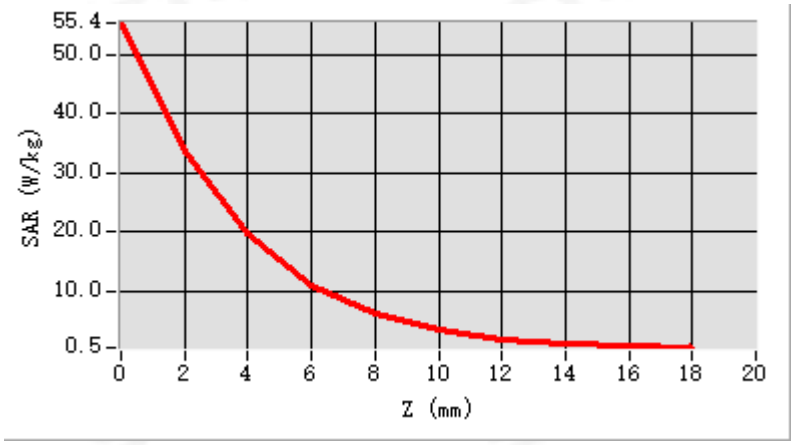
Phantom	Validation plane
Device Position	Dipole
Band	5600MHz
Channels	Middle
Signal	CW
Frequency (MHz)	5600
Relative permittivity	36.61
Conductivity (S/m)	5.02
Probe	SN 08/21 EPGO352
ConvF	1.24
Crest factor:	1:1

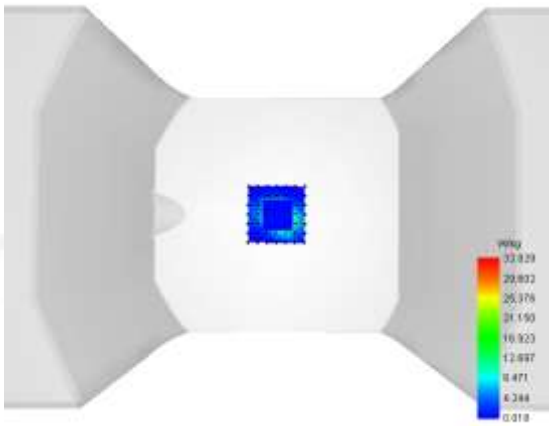
SURFACE SAR	VOLUME SAR
	

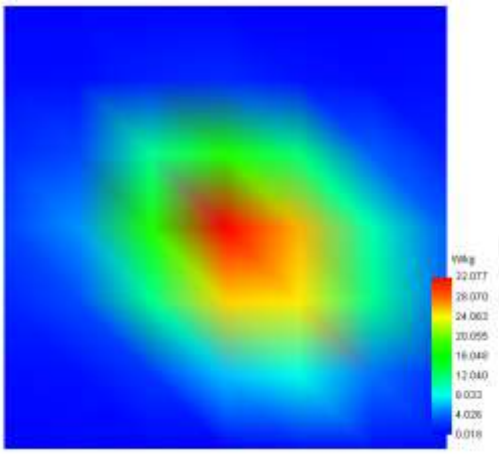
Maximum location: X=7.00, Y=2.00

SAR 10g (W/Kg)	6.373
SAR 1g (W/Kg)	17.651
Horizontal validation criteria: minimum distance (mm)	8.655124
Vertical validation criteria: SAR ratio M2/M1 (%)	58.919836

Z Axis Scan





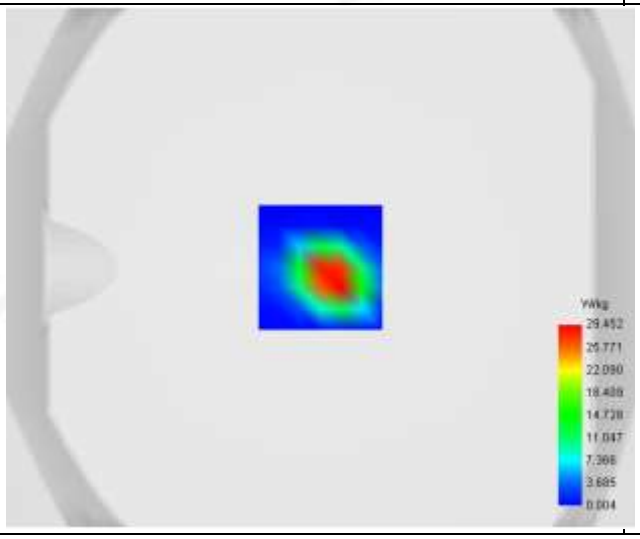
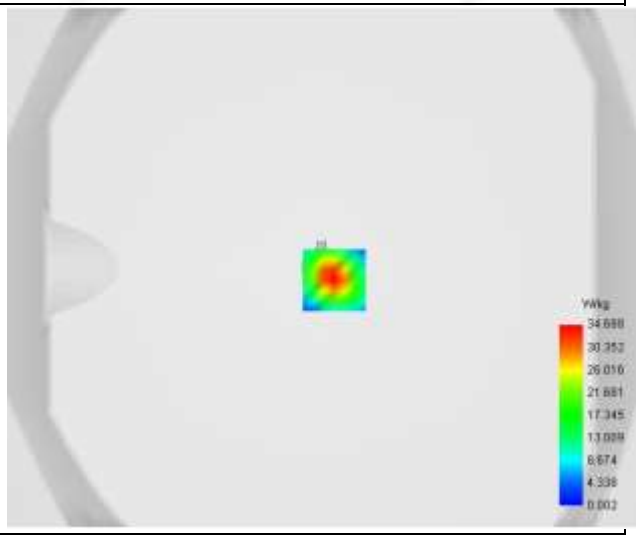


System Performance Check Data (5800MHz)

Type: Dipole measurement (Complete)
Area scan resolution: dx=8mm,dy=8mm
Zoom scan resolution: dx=4mm, dy=4mm, dz=2mm
Date of measurement: 2025-05-29

Experimental conditions.

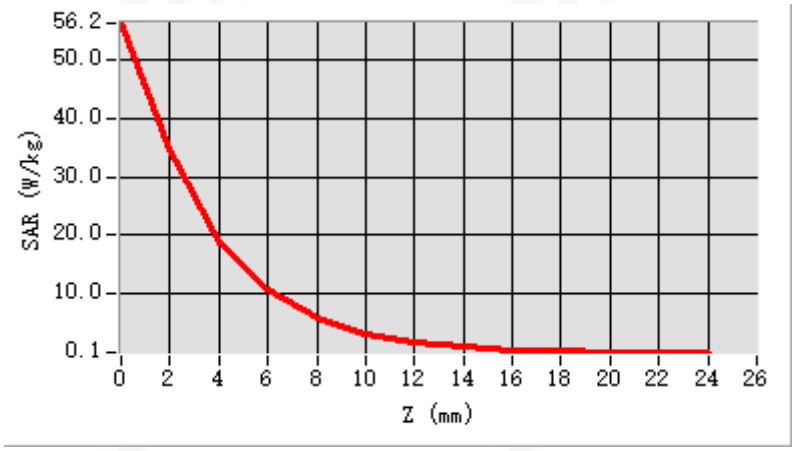
Phantom	Validation plane
Device Position	Dipole
Band	5800MHz
Channels	Middle
Signal	CW
Frequency (MHz)	5800
Relative permittivity	35.47
Conductivity (S/m)	5.30
Probe	SN 08/21 EPGO352
ConvF	1.35
Crest factor:	1:1

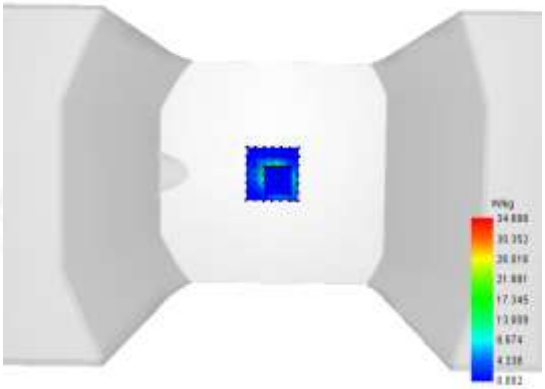
SURFACE SAR	VOLUME SAR
	

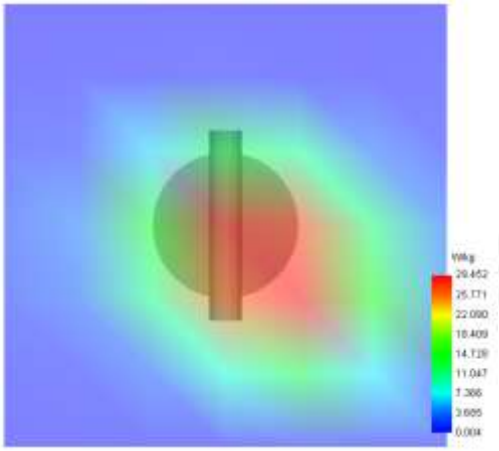
Maximum location: X=7.00, Y=2.00

SAR 10g (W/Kg)	6.389
SAR 1g (W/Kg)	19.092
Horizontal validation criteria: minimum distance (mm)	8.944272
Vertical validation criteria: SAR ratio M2/M1 (%)	54.005012

Z Axis Scan


56.2
50.0
40.0
30.0
20.0
10.0
0.1
SAR (W/kg)
0 2 4 6 8 10 12 14 16 18 20 22 24 26
Z (mm)

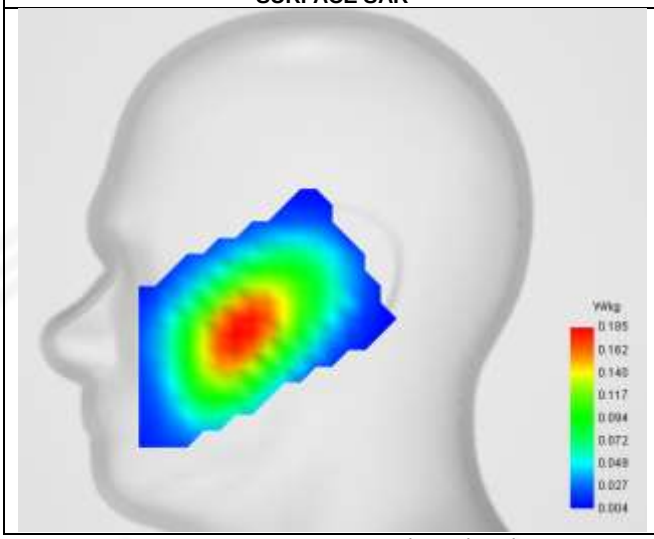
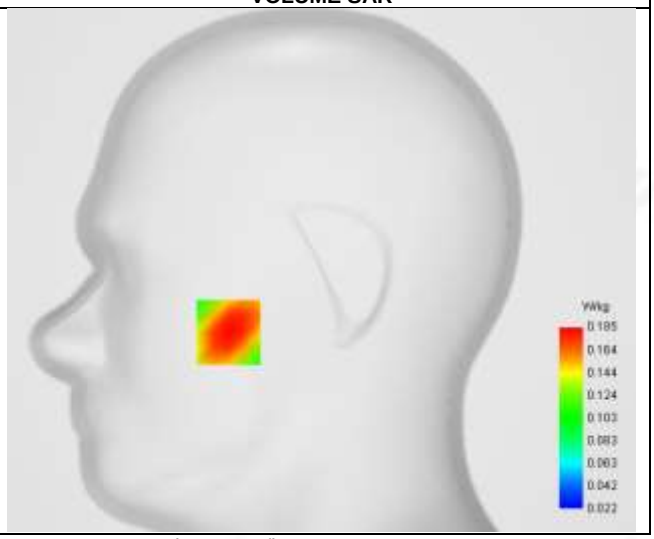




Appendix B. SAR Test Plots

Plot 1: DUT: Insta360 GO Ultra Standalone Camera; EUT Model: CINSABEA

Test Date	2025-05-28
ConvF	1.80
Probe	SN 08/21 EPGO352
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm,Complete
Phantom	Right Cheek
Device Position	Cheek
Band	IEEE 802.11b ISM
Signal	IEEE802.b (Crest factor: 1.0)
Frequency (MHz)	2437
Relative permittivity (real part)	40.13
Conductivity (S/m)	1.80

SURFACE SAR	VOLUME SAR
	

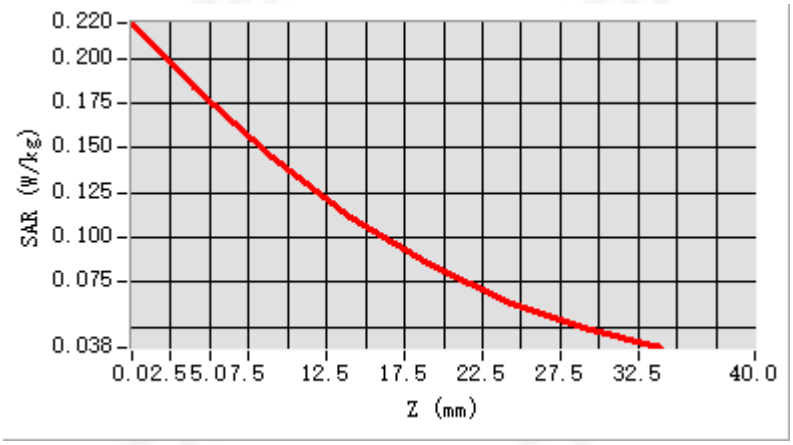
Maximum location: X=-46.00, Y=-31.00 ; SAR Peak: 0.22 W/kg

D. SAR 1g & 10g

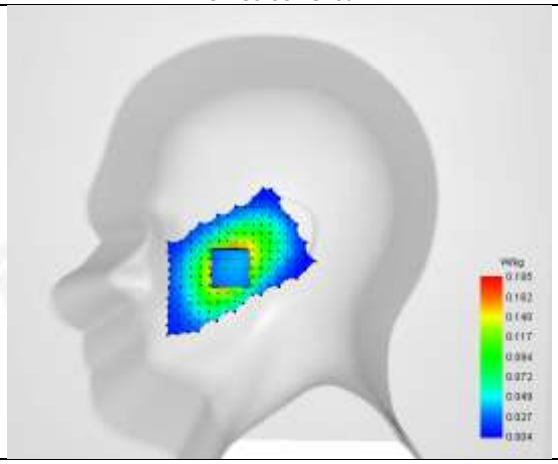
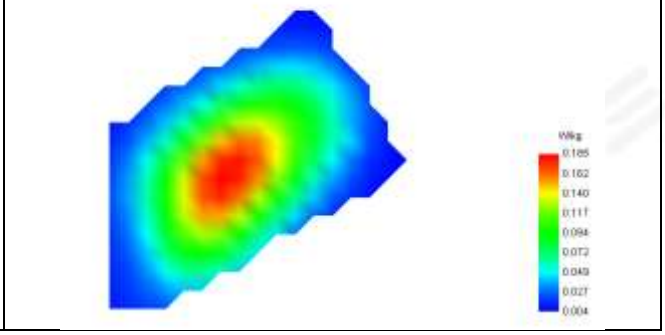
SAR 10g (W/Kg)	0.112
SAR 1g (W/Kg)	0.156
Horizontal validation criteria: minimum distance (mm)	22.627417
Vertical validation criteria: SAR ratio M2/M1 (%)	78.676925

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.220	0.185	0.145	0.111	0.085	0.064	0.049

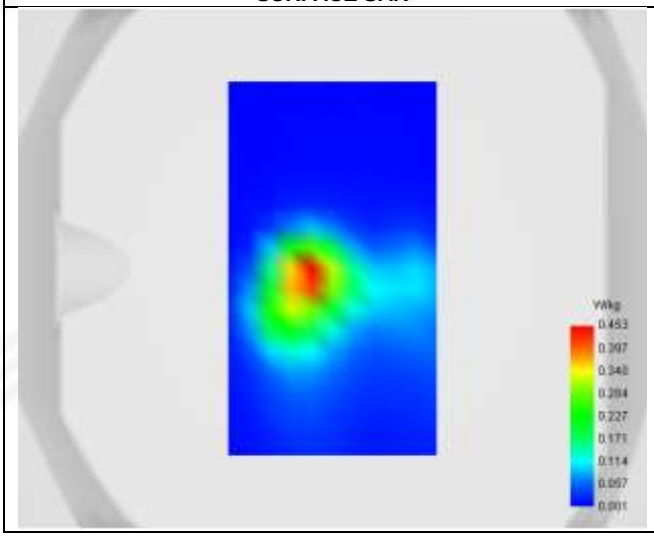
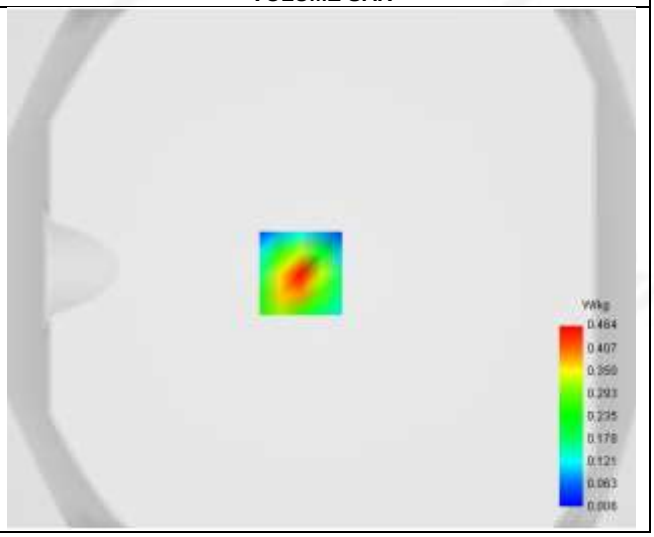


F. 3D Image

3D screen shot	Hot spot position
	

Plot 2: DUT: Insta360 GO Ultra Standalone Camera; EUT Model: CINSABEA

Test Date	2025-05-28
ConvF	1.80
Probe	SN 08/21 EPGO352
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm,Complete
Phantom	Top Side
Band	IEEE 802.11b ISM
Signal	IEEE802.b (Crest factor: 1.0)
Frequency (MHz)	2437
Relative permittivity (real part)	40.13
Conductivity (S/m)	1.80

SURFACE SAR	VOLUME SAR
	

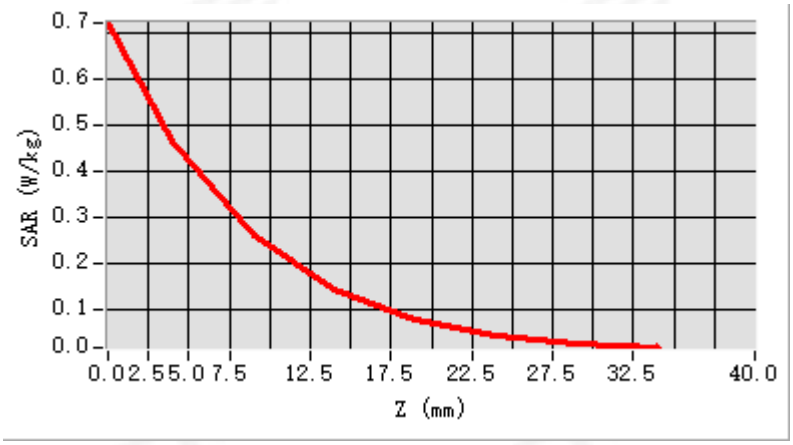
Maximum location: X=-8.00, Y=-2.00 ; SAR Peak: 0.74 W/kg

D. SAR 1g & 10g

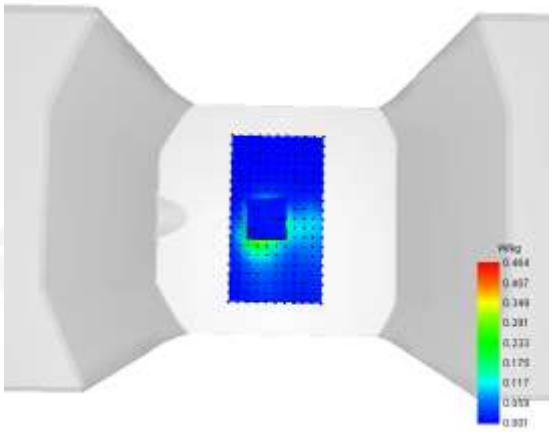
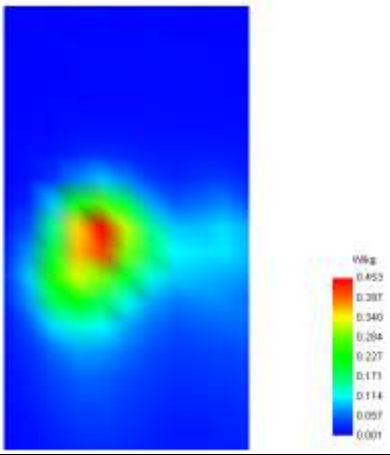
SAR 10g (W/Kg)	0.209
SAR 1g (W/Kg)	0.304
Horizontal validation criteria: minimum distance (mm)	11.313708
Vertical validation criteria: SAR ratio M2/M1 (%)	55.584475

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.723	0.464	0.258	0.143	0.077	0.043	0.023

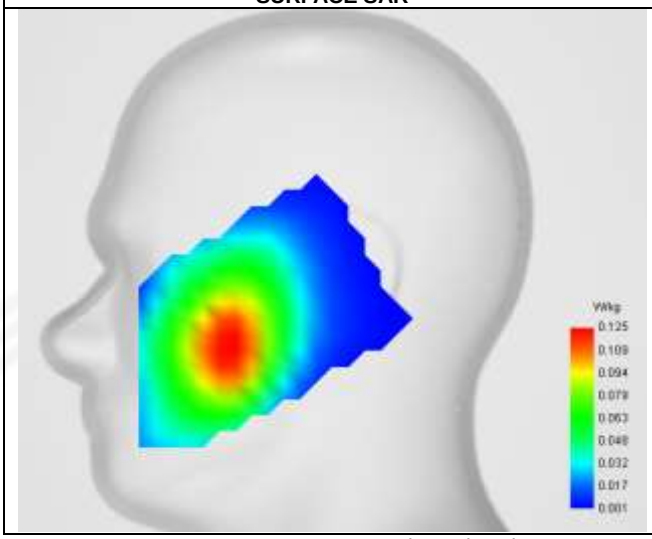
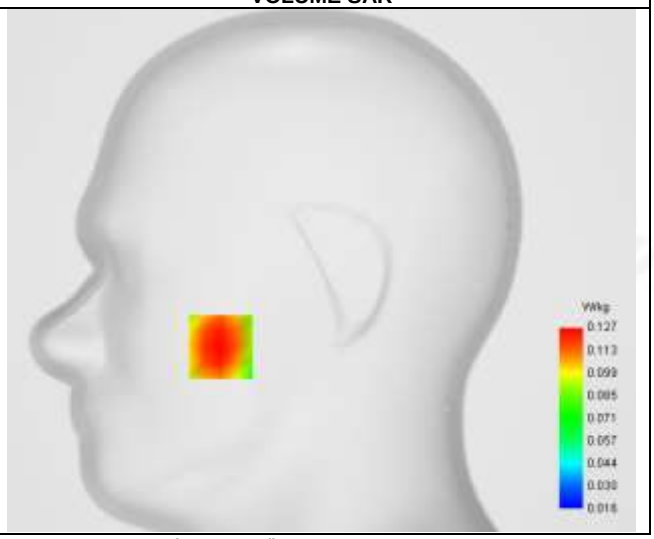


F. 3D Image

3D screen shot	Hot spot position
	

Plot 3: DUT: Insta360 GO Ultra Standalone Camera; EUT Model: CINSABEA

Test Date	2025-05-28
ConvF	1.80
Probe	SN 08/21 EPGO352
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm,Complete
Phantom	Right Cheek
Device Position	Cheek
Band	BT
Signal	GFSK
Frequency (MHz)	2441
Relative permittivity (real part)	39.70
Conductivity (S/m)	1.79

SURFACE SAR	VOLUME SAR
	

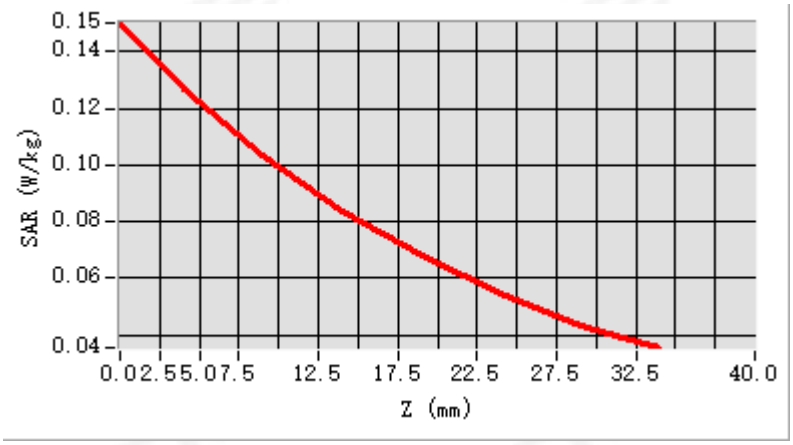
Maximum location: X=-50.00, Y=-38.00 ; SAR Peak: 0.15 W/kg

D. SAR 1g & 10g

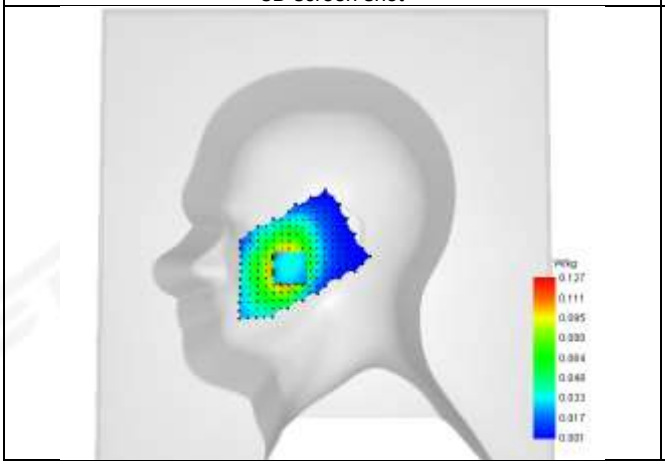
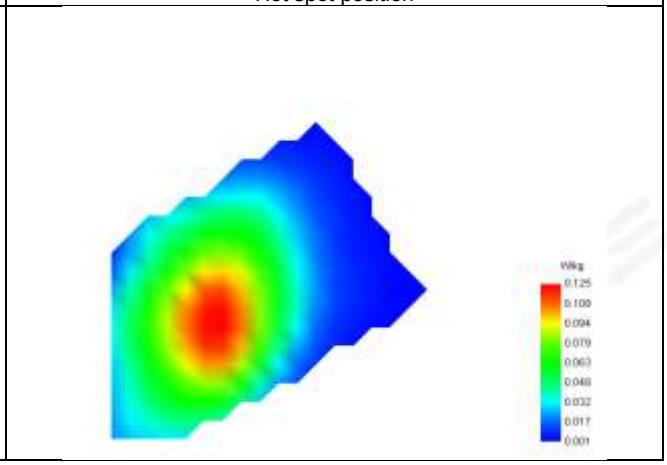
SAR 10g (W/Kg)	0.054
SAR 1g (W/Kg)	0.084
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	81.102362

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.150	0.127	0.103	0.084	0.068	0.054	0.043

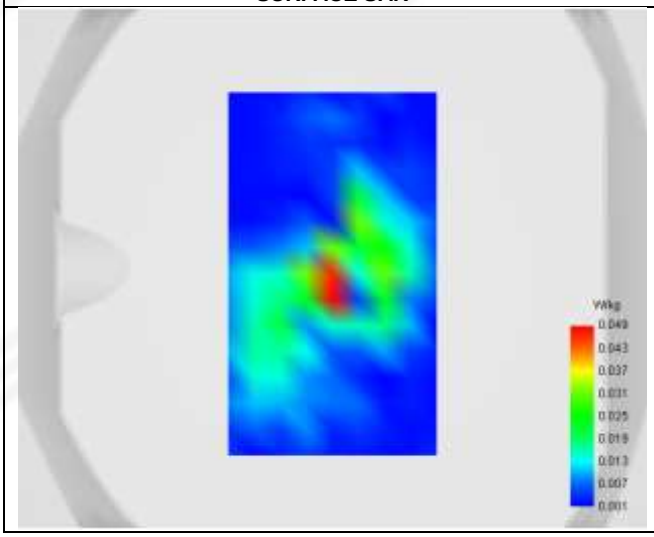
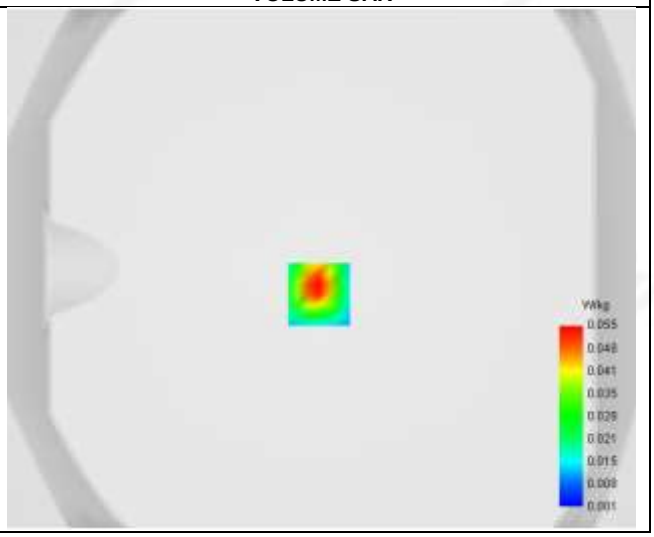


F. 3D Image

3D screen shot	Hot spot position
	

Plot 4: DUT: Insta360 GO Ultra Standalone Camera; EUT Model: CINSABEA

Test Date	2025-05-28
ConvF	1.80
Probe	SN 08/21 EPGO352
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm,Complete
Phantom	Top Side
Band	BT
Signal	GFSK
Frequency (MHz)	2441
Relative permittivity (real part)	39.70
Conductivity (S/m)	1.79

SURFACE SAR	VOLUME SAR
	

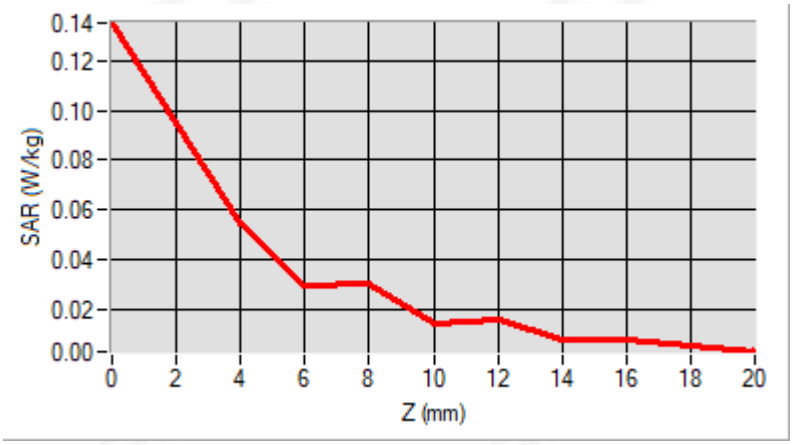
Maximum location: X=-1.00, Y=-10.00 ; SAR Peak: 0.10 W/kg

D. SAR 1g & 10g

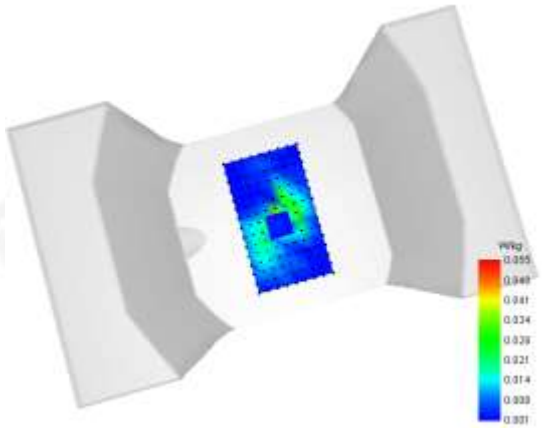
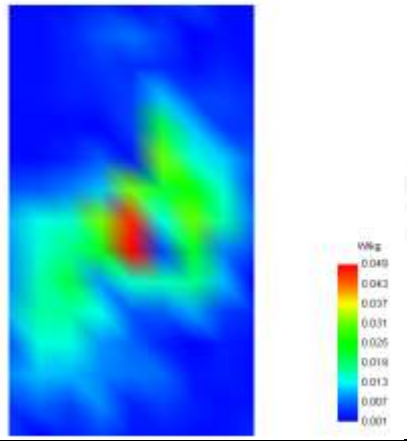
SAR 10g (W/Kg)	0.019
SAR 1g (W/Kg)	0.049
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	52.727273

E. Z Axis Scan

Z (mm)	0.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00
SAR (W/Kg)	0.135	0.055	0.029	0.030	0.014	0.016	0.008	0.008	0.005

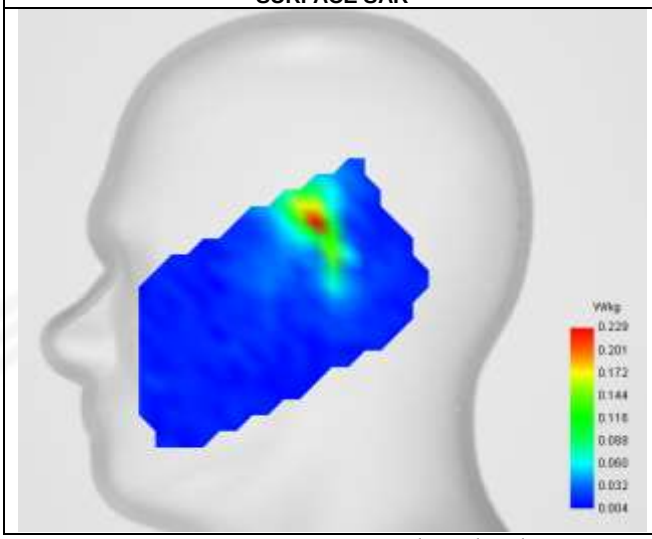
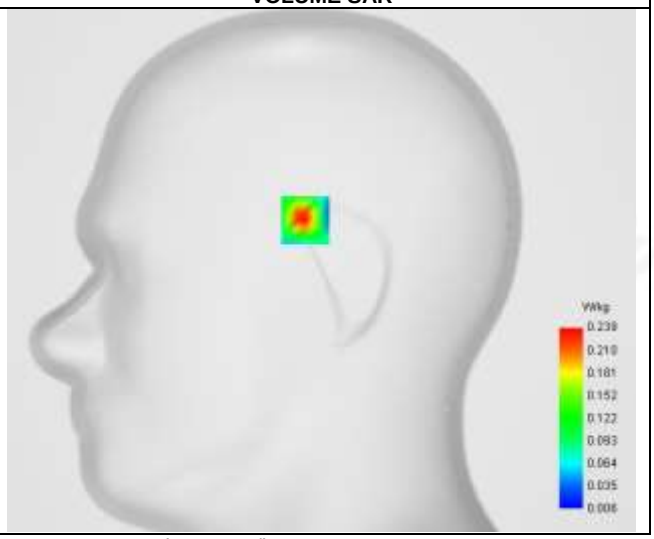


F. 3D Image

3D screen shot	Hot spot position
	

Plot 5: DUT: Insta360 GO Ultra Standalone Camera; EUT Model: CINSABEA

Test Date	2025-05-28
ConvF	1.33
Probe	SN 08/21 EPGO352
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm Complete,
Phantom	Right Cheek
Device Position	Cheek
Band	IEEE 802.11a ISM
Signal	IEEE802.a (Crest factor: 1.0)
Frequency (MHz)	5180
Relative permittivity (real part)	36.87
Conductivity (S/m)	4.60

SURFACE SAR	VOLUME SAR
	

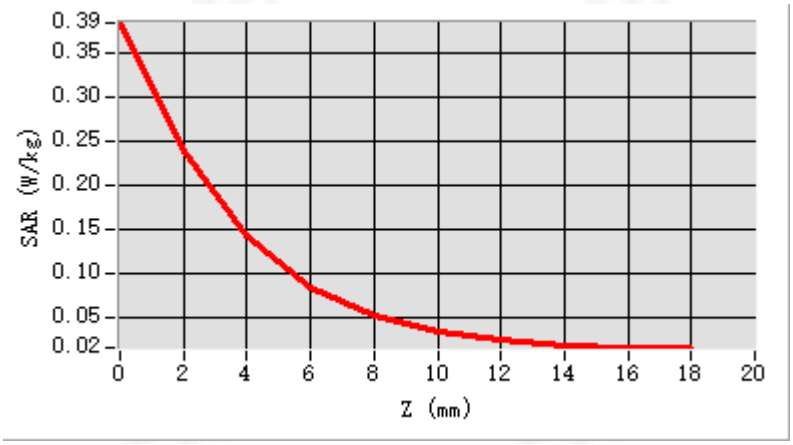
Maximum location: X=-8.00, Y=25.00 ; SAR Peak: 0.57 W/kg

D. SAR 1g & 10g

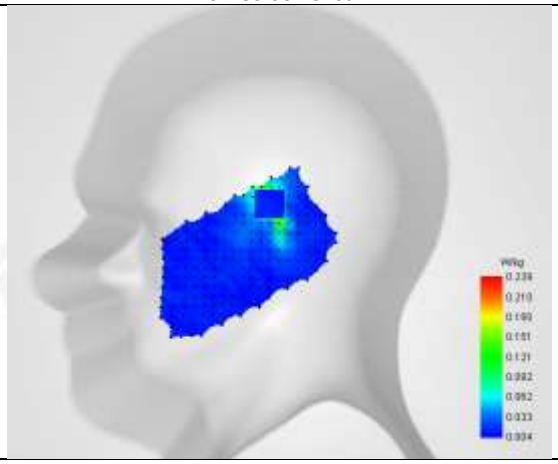
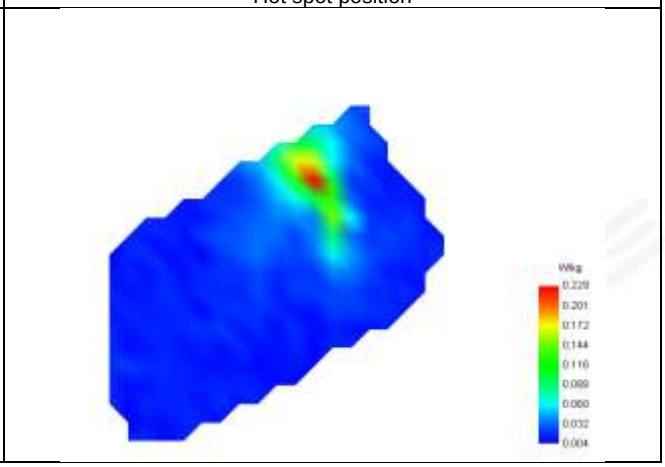
SAR 10g (W/Kg)	0.078
SAR 1g (W/Kg)	0.214
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	59.832636

E. Z Axis Scan

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00
SAR (W/Kg)	0.385	0.239	0.143	0.085	0.052	0.034	0.024	0.019	0.017

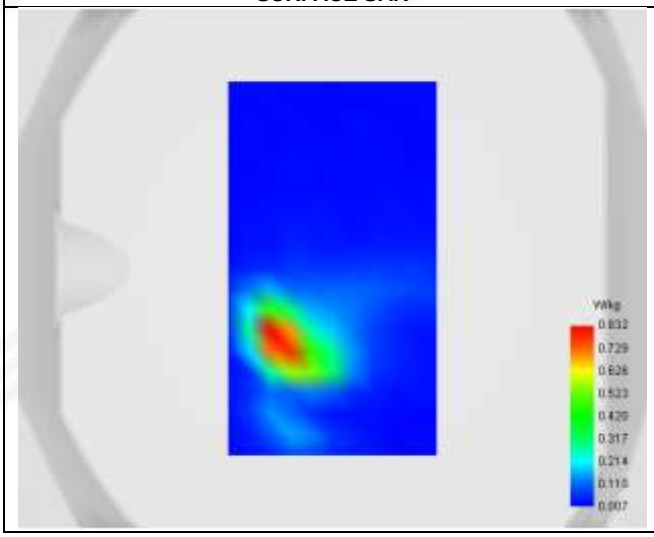
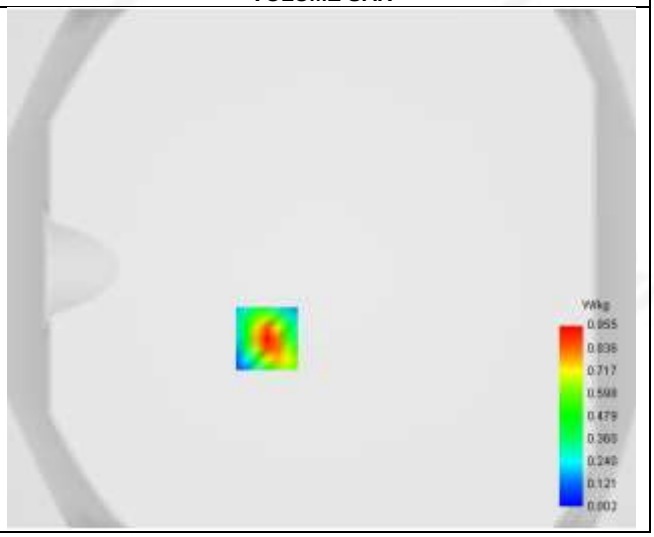


F. 3D Image

3D screen shot	Hot spot position
	

Plot 6: DUT: Insta360 GO Ultra Standalone Camera; EUT Model: CINSABEA

Test Date	2025-05-28
ConvF	1.33
Probe	SN 08/21 EPGO352
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm Complete,
Phantom	Top Side
Band	IEEE 802.11a ISM
Signal	IEEE802.a (Crest factor: 1.0)
Frequency (MHz)	5180
Relative permittivity (real part)	36.87
Conductivity (S/m)	4.60

SURFACE SAR	VOLUME SAR
	

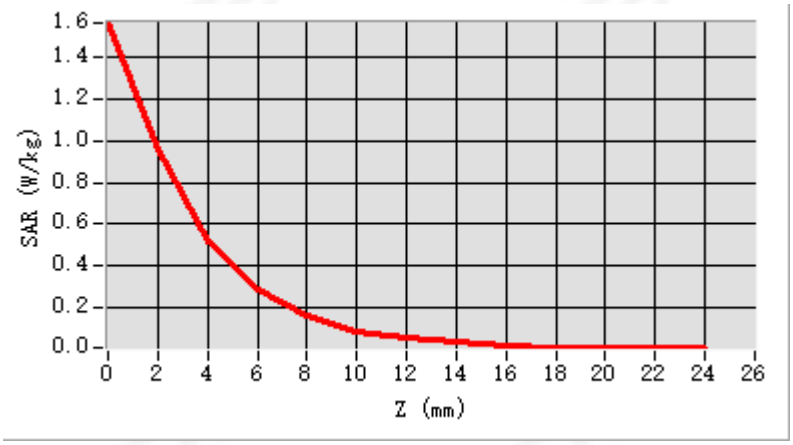
Maximum location: X=-21.00, Y=-27.00 ; SAR Peak: 1.63 W/kg

D. SAR 1g & 10g

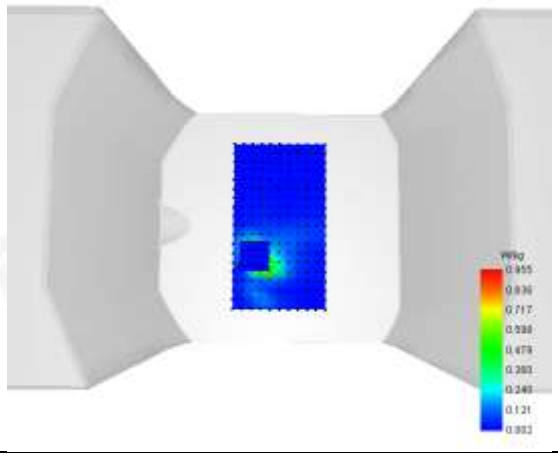
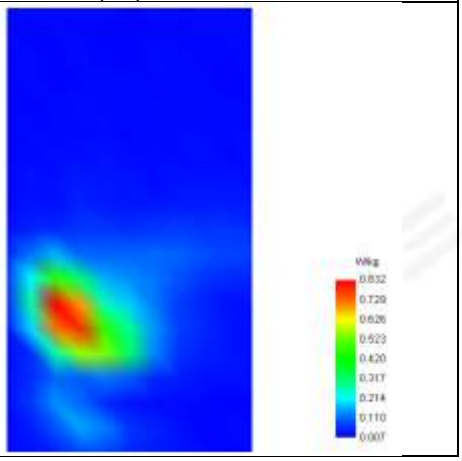
SAR 10g (W/Kg)	0.189
SAR 1g (W/Kg)	0.544
Horizontal validation criteria: minimum distance (mm)	8.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	54.165614

E. Z Axis Scan

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00
SAR (W/Kg)	1.563	0.955	0.517	0.289	0.163	0.085	0.055	0.035	0.023	0.012	0.009	0.009

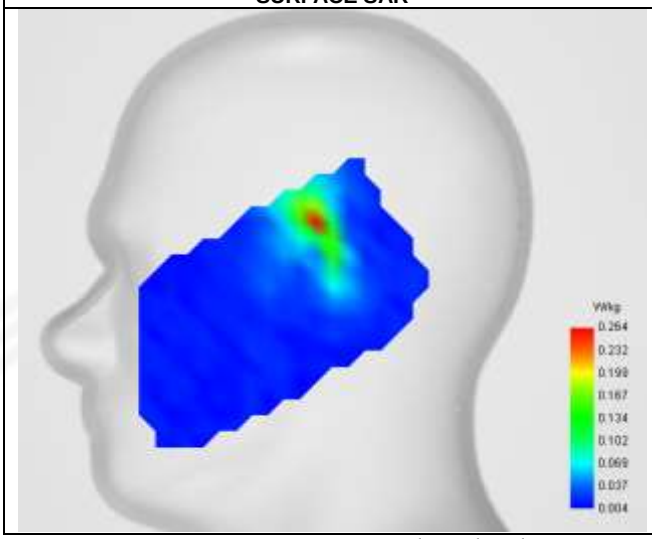
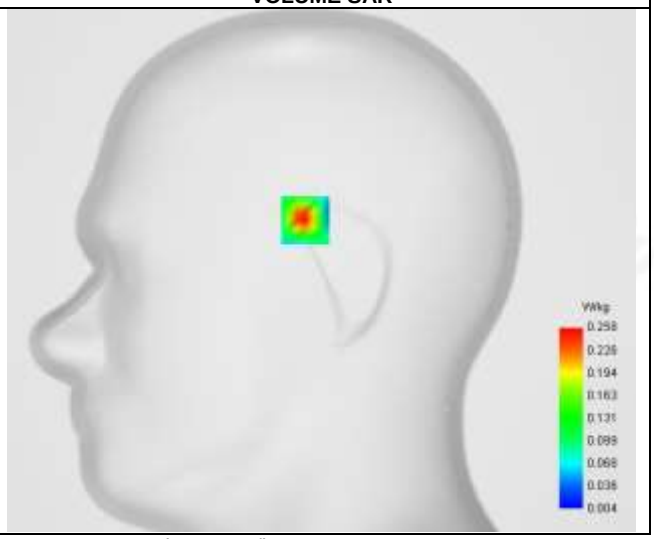


F. 3D Image

3D screen shot	Hot spot position
	

Plot 7: DUT: Insta360 GO Ultra Standalone Camera; EUT Model: CINSABEA

Test Date	2025-05-28
ConvF	1.31
Probe	SN 08/21 EPGO352
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm Complete,
Phantom	Right Cheek
Device Position	Cheek
Band	IEEE 802.11a ISM
Signal	IEEE802.a (Crest factor: 1.0)
Frequency (MHz)	5260
Relative permittivity (real part)	36.08
Conductivity (S/m)	4.70

SURFACE SAR	VOLUME SAR
	

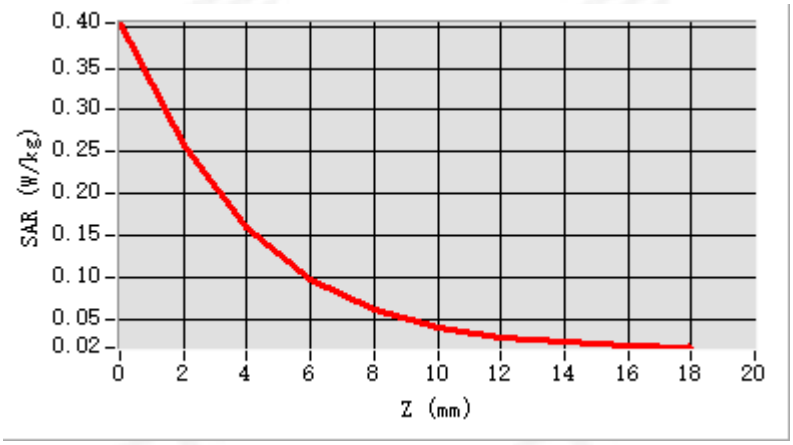
Maximum location: X=-8.00, Y=25.00 ; SAR Peak: 0.59 W/kg

D. SAR 1g & 10g

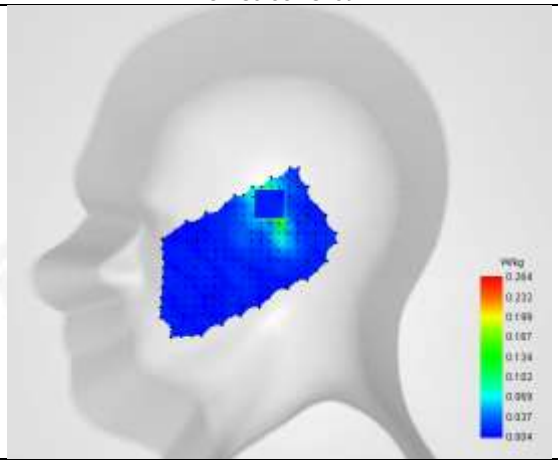
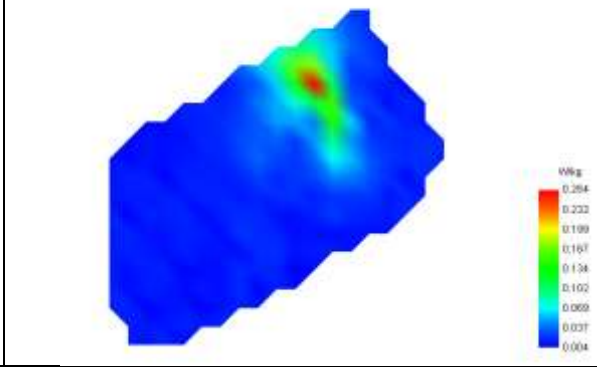
SAR 10g (W/Kg)	0.083
SAR 1g (W/Kg)	0.228
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	62.015504

E. Z Axis Scan

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00
SAR (W/Kg)	0.404	0.258	0.160	0.098	0.062	0.041	0.029	0.023	0.019

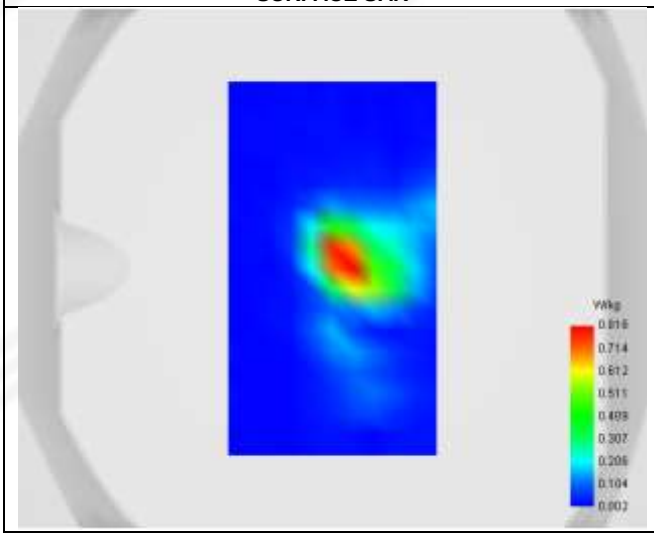
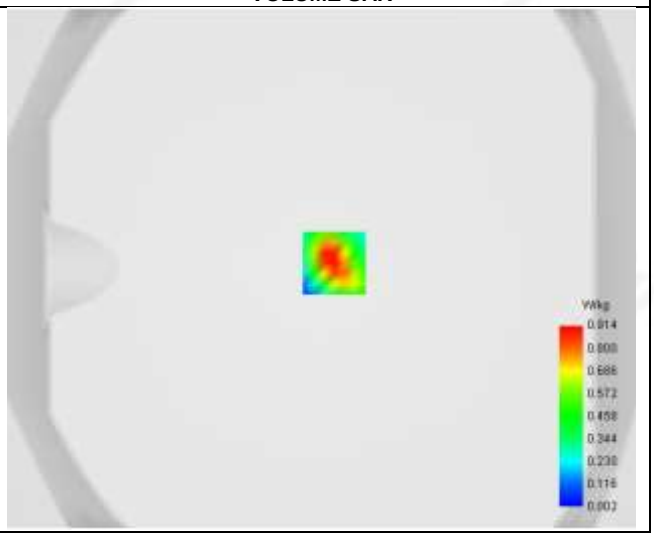


F. 3D Image

3D screen shot	Hot spot position
	

Plot 8: DUT: Insta360 GO Ultra Standalone Camera; EUT Model: CINSABEA

Test Date	2025-05-28
ConvF	1.31
Probe	SN 08/21 EPGO352
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm Complete,
Phantom	Top Side
Band	IEEE 802.11a ISM
Signal	IEEE802.a (Crest factor: 1.0)
Frequency (MHz)	5260
Relative permittivity (real part)	36.08
Conductivity (S/m)	4.70

SURFACE SAR	VOLUME SAR
	

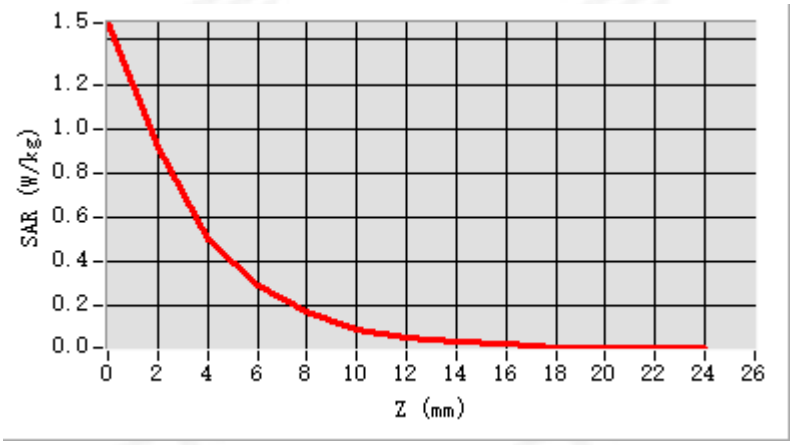
Maximum location: X=5.00, Y=2.00 ; SAR Peak: 1.60 W/kg

D. SAR 1g & 10g

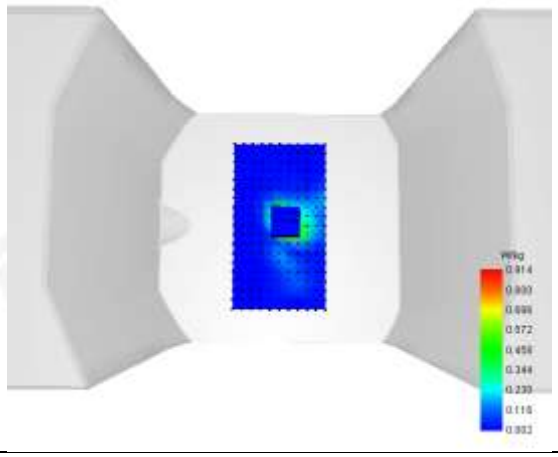
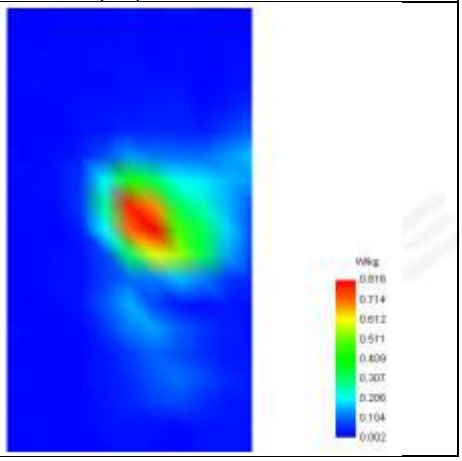
SAR 10g (W/Kg)	0.195
SAR 1g (W/Kg)	0.546
Horizontal validation criteria: minimum distance (mm)	8.944272
Vertical validation criteria: SAR ratio M2/M1 (%)	54.447150

E. Z Axis Scan

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00
SAR (W/Kg)	1.477	0.914	0.497	0.286	0.168	0.090	0.055	0.033	0.023	0.012	0.011	0.008

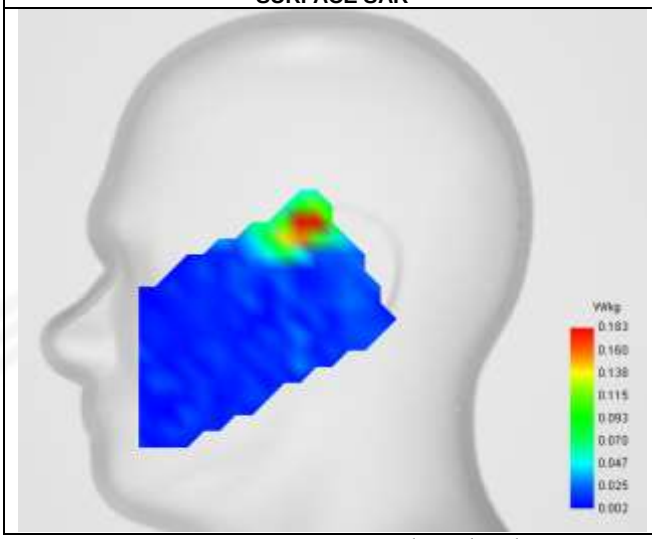
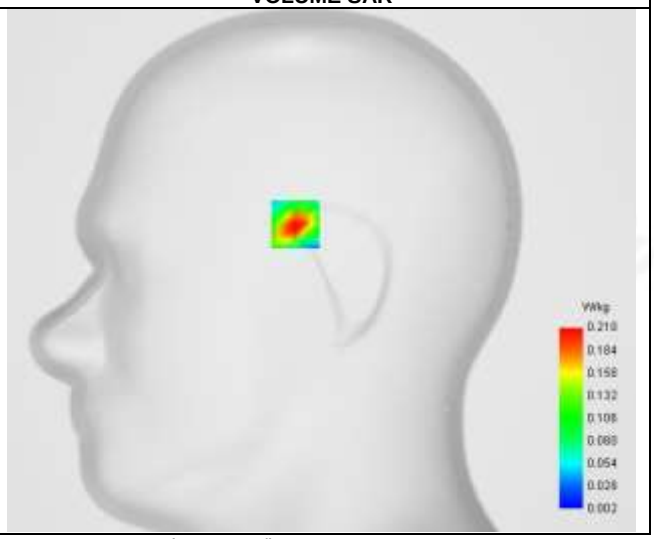


F. 3D Image

3D screen shot	Hot spot position
	

Plot 9: DUT: Insta360 GO Ultra Standalone Camera; EUT Model: CINSABEA

Test Date	2025-05-29
ConvF	1.24
Probe	SN 08/21 EPGO352
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm Complete,
Phantom	Right Cheek
Device Position	Cheek
Band	IEEE 802.11a ISM
Signal	IEEE802.a (Crest factor: 1.0)
Frequency (MHz)	5670
Relative permittivity (real part)	36.40
Conductivity (S/m)	5.20

SURFACE SAR	VOLUME SAR
	

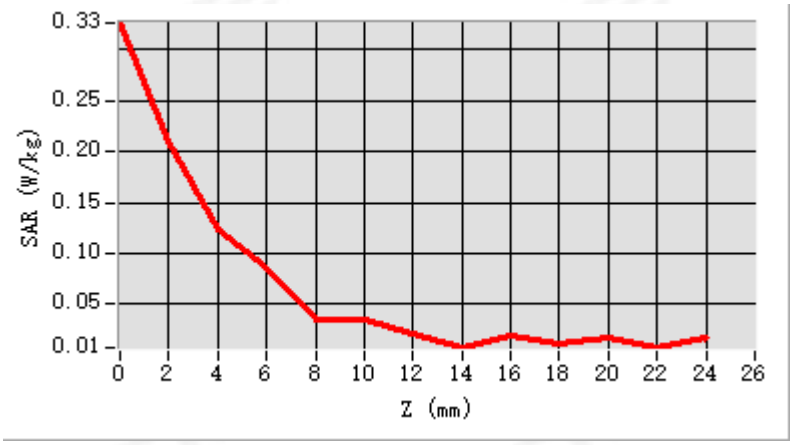
Maximum location: X=-13.00, Y=23.00 ; SAR Peak: 0.55 W/kg

D. SAR 1g & 10g

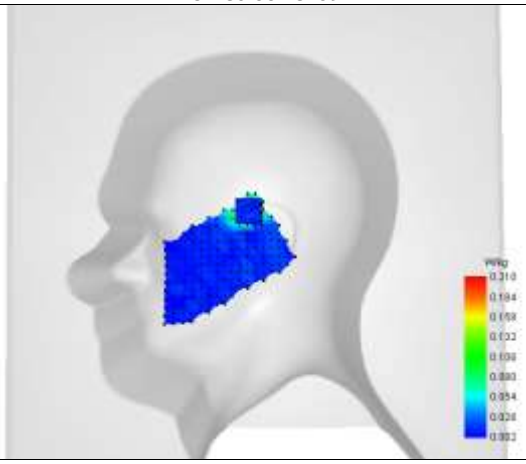
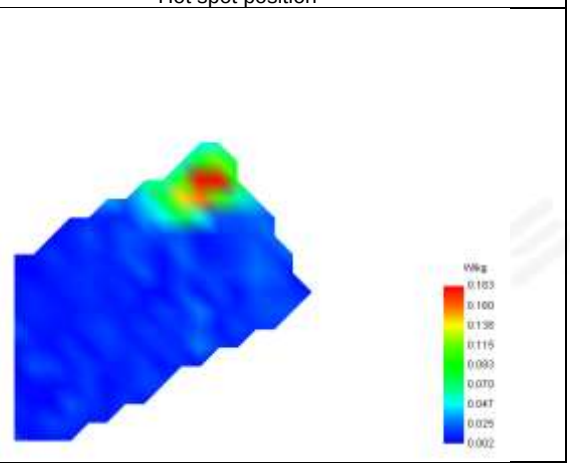
SAR 10g (W/Kg)	0.071
SAR 1g (W/Kg)	0.205
Horizontal validation criteria: minimum distance (mm)	8.944272
Vertical validation criteria: SAR ratio M2/M1 (%)	58.760196

E. Z Axis Scan

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00
SAR (W/Kg)	0.327	0.210	0.124	0.086	0.035	0.035	0.022	0.008	0.019	0.011	0.017	0.007

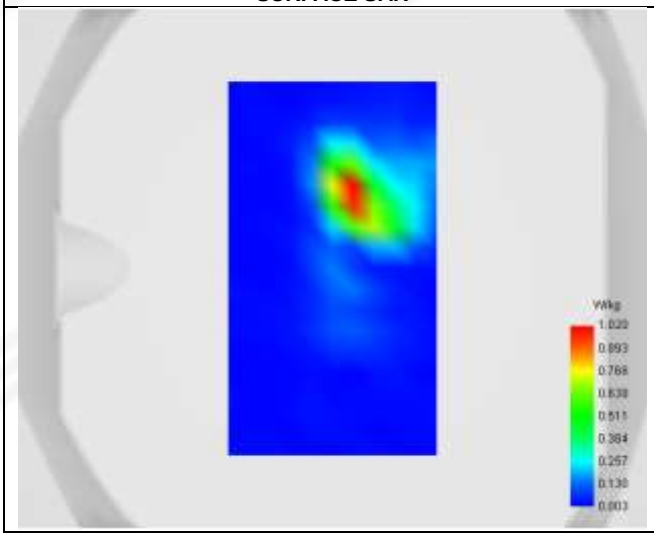
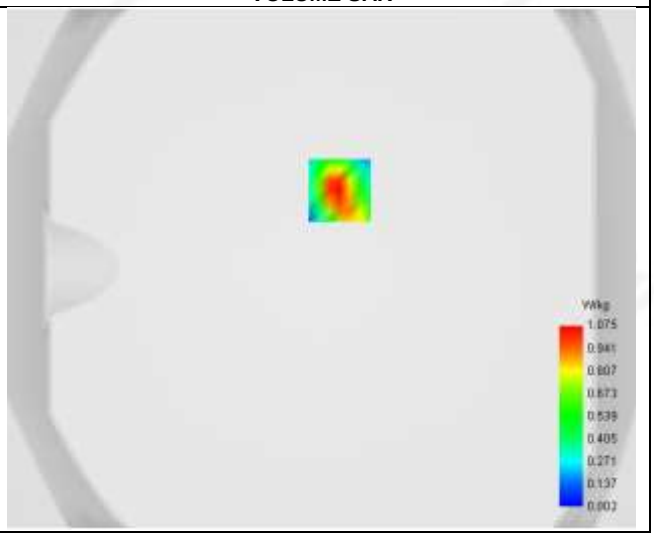


F. 3D Image

3D screen shot	Hot spot position
	

Plot 10: DUT: Insta360 GO Ultra Standalone Camera; EUT Model: CINSABEA

Test Date	2025-05-29
ConvF	1.24
Probe	SN 08/21 EPGO352
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm Complete,
Phantom	Top Side
Band	IEEE 802.11a ISM
Signal	IEEE802.a (Crest factor: 1.0)
Frequency (MHz)	5670
Relative permittivity (real part)	36.40
Conductivity (S/m)	5.20

SURFACE SAR	VOLUME SAR
	

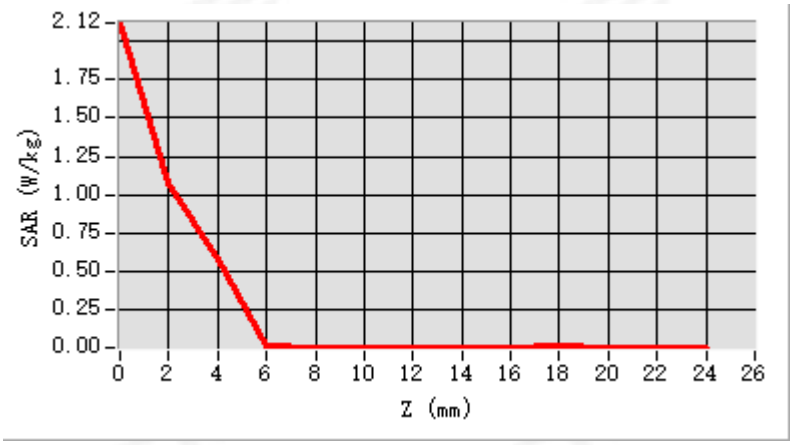
Maximum location: X=7.00, Y=30.00 ; SAR Peak: 1.67 W/kg

D. SAR 1g & 10g

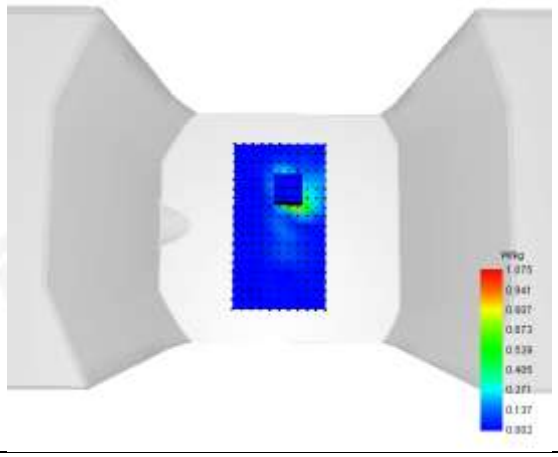
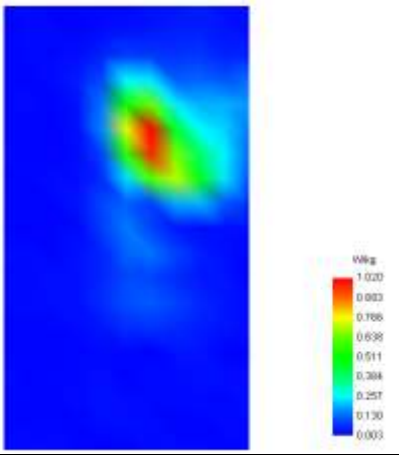
SAR 10g (W/Kg)	0.164
SAR 1g (W/Kg)	0.492
Horizontal validation criteria: minimum distance (mm)	8.944272
Vertical validation criteria: SAR ratio M2/M1 (%)	53.432445

E. Z Axis Scan

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00
SAR (W/Kg)	2.119	1.075	0.575	0.014	0.005	0.004	0.003	0.004	0.004	0.014	0.005	0.003

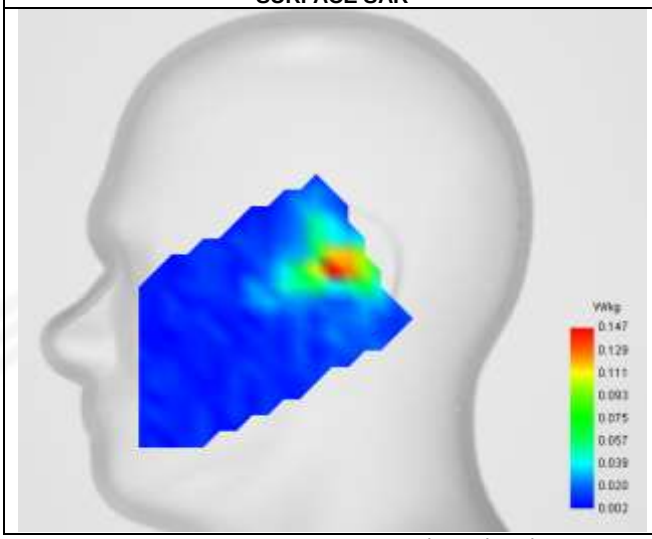
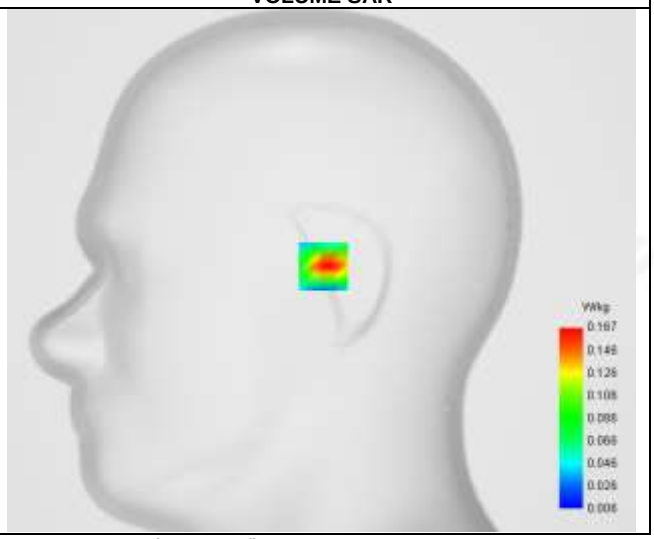


F. 3D Image

3D screen shot	Hot spot position
	

Plot 11: DUT: Insta360 GO Ultra Standalone Camera; EUT Model: CINSABEA

Test Date	2025-05-29
ConvF	1.35
Probe	SN 08/21 EPGO352
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm Complete,
Phantom	Right Cheek
Device Position	Cheek
Band	IEEE 802.11a ISM
Signal	IEEE802.a (Crest factor: 1.0)
Frequency (MHz)	5755
Relative permittivity (real part)	36.28
Conductivity (S/m)	5.13

SURFACE SAR	VOLUME SAR
	

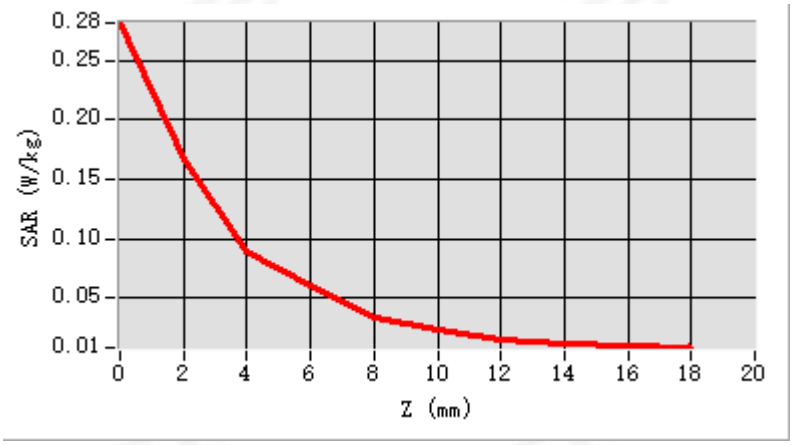
Maximum location: X=1.00, Y=2.00 ; SAR Peak: 0.39 W/kg

D. SAR 1g & 10g

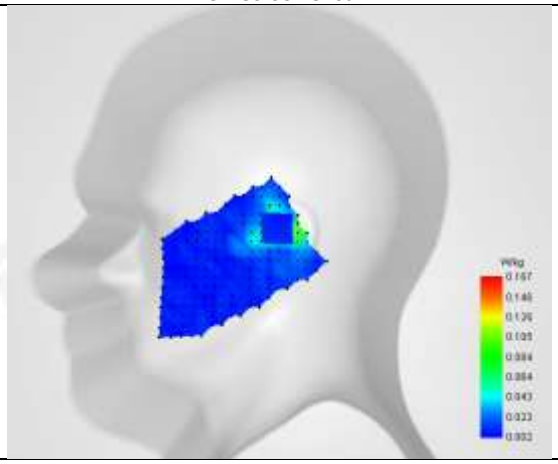
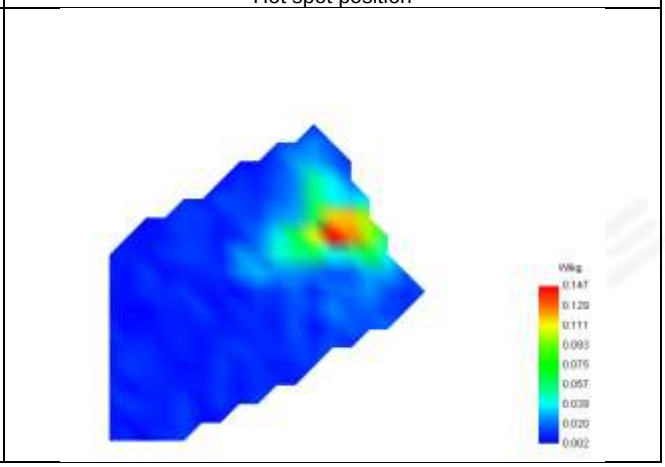
SAR 10g (W/Kg)	0.056
SAR 1g (W/Kg)	0.152
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	53.293413

E. Z Axis Scan

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00
SAR (W/Kg)	0.282	0.167	0.089	0.060	0.033	0.024	0.015	0.012	0.010

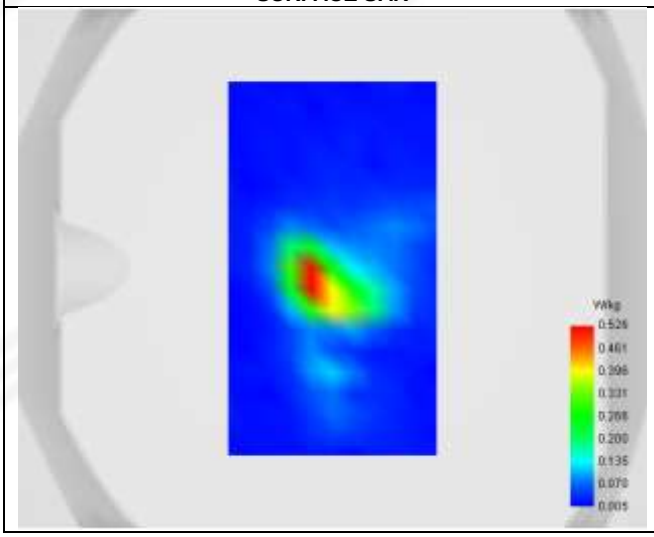
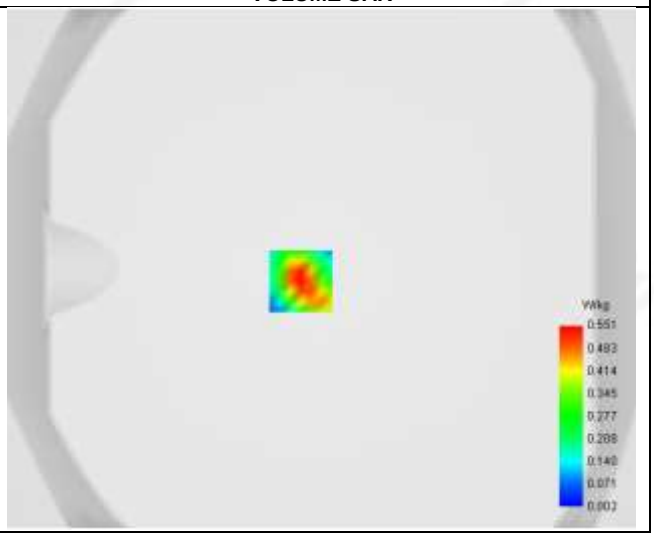


F. 3D Image

3D screen shot	Hot spot position
	

Plot 12: DUT: Insta360 GO Ultra Standalone Camera; EUT Model: CINSABEA

Test Date	2025-05-29
ConvF	1.35
Probe	SN 08/21 EPGO352
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm Complete,
Phantom	Top Side
Band	IEEE 802.11a ISM
Signal	IEEE802.a (Crest factor: 1.0)
Frequency (MHz)	5755
Relative permittivity (real part)	36.28
Conductivity (S/m)	5.13

SURFACE SAR	VOLUME SAR
	

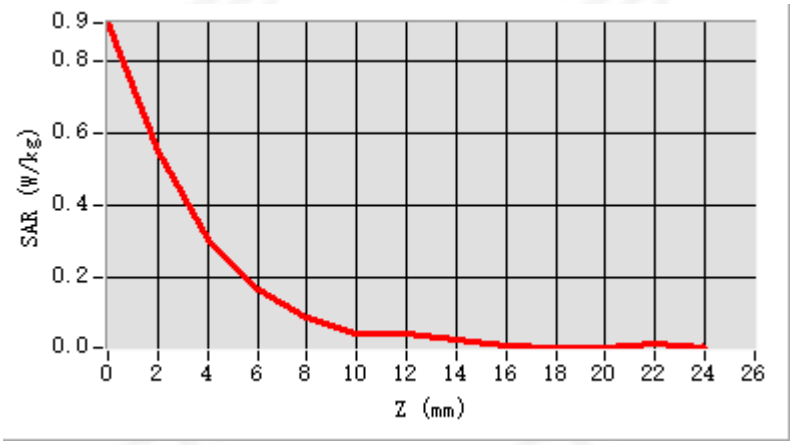
Maximum location: X=-8.00, Y=-5.00 ; SAR Peak: 0.93 W/kg

D. SAR 1g & 10g

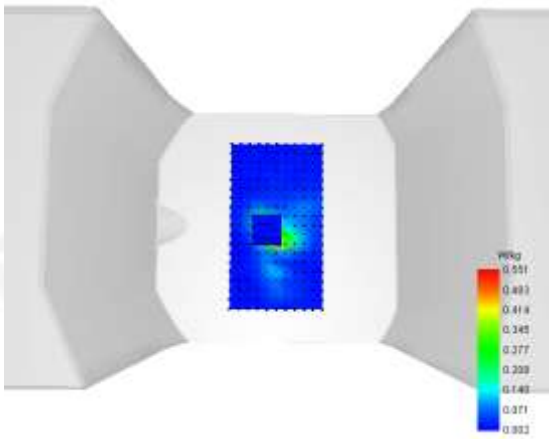
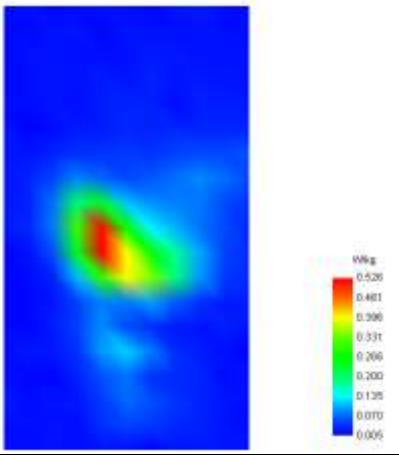
SAR 10g (W/Kg)	0.111
SAR 1g (W/Kg)	0.314
Horizontal validation criteria: minimum distance (mm)	8.944272
Vertical validation criteria: SAR ratio M2/M1 (%)	55.650087

E. Z Axis Scan

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00
SAR (W/Kg)	0.903	0.551	0.307	0.171	0.093	0.046	0.045	0.030	0.015	0.009	0.008	0.018



F. 3D Image

3D screen shot	Hot spot position
	

Appendix C. Probe Calibration and Dipole Calibration Report

Refer the appendix Calibration Report.

※※※※※END OF THE REPORT※※※※※