



SAR Test Report

Report No.: STS2508001H01

Issued for

Dongguan Jiehong Intellingen Technology CO.,LTD

3-4F, No.8, Jinsheng Road, Jinxia Village, Chang'an Town,
Dongguan City, Guangdong Province, China

Product Name: MID

Brand Name: SuperKing

Model Name: Smart_10

Series Model(s): Smart_9, Smart_X, Smart_Pro_Max,
Spark_Pro_Max, 10_Pro, Smart S26,
Spark_Top_Pro, Smart_GT,
Hot_60_Pro_Max, Hot_70_Pro_Max,
Smart_11, Smart_12, Smart_13

FCC ID: 2BLBN-SMART

Test Standard: ANSI/IEEE Std. C95.1
FCC 47 CFR Part 2 (2.1093)
IEEE Std. 1528-2013

Max. Report
SAR (1g) Body: 1.033 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.



TEST REPORT CERTIFICATION

Applicant's name : Dongguan Jiehong Intellingen Technology CO.,LTD
Address : 3-4F, No.8, Jinsheng Road, Jinxia Village, Chang'an Town,
Dongguan City, Guangdong Province, China
Manufacturer's Name : Dongguan Jiehong Intellingen Technology CO.,LTD
Address : 3-4F, No.8, Jinsheng Road, Jinxia Village, Chang'an Town,
Dongguan City, Guangdong Province, China

Product description

Product name : MID
Brand name : SuperKing
Model name : Smart_10
Series Model..... : Smart_9, Smart_X, Smart_Pro_Max, Spark_Pro_Max, 10_Pro,
Smart_S26, Spark_Top_Pro, Smart_GT, Hot_60_Pro_Max,
Hot_70_Pro_Max, Smart_11, Smart_12, Smart_13
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..... : 20 Aug 2025 ~ 22 Aug 2025

Date of Issue..... : 26 Aug 2025

Test Result..... : **Pass**

Testing Engineer :

Xin Liu

(Xin.Liu)

Technical Manager :

Shi fan-long

(Shifan. Long)

Authorized Signatory :

Bovey Yang

(Bovey Yang)





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**Revision History**

Rev.	Issue Date	Report No.	Effect Page	Contents
00	20 Aug 2025	STS2508001H01	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	MID		
Brand Name	SuperKing		
Model Name	Smart_10		
Series Model	Smart_9, Smart_X, Smart_Pro_Max, Spark_Pro_Max, 10_Pro, Smart S26, Spark_Top_Pro, Smart_GT, Hot_60_Pro_Max, Hot_70_Pro_Max, Smart_11, Smart_12, Smart_13		
Model Difference	Only different in Model name		
Battery	N/A		
Device Category	Portable		
Product stage	Production unit		
RF Exposure Environment	General Population / Uncontrolled		
Hardware Version	N/A		
Software Version	N/A		
Frequency Range	GSM 850: 824 MHz ~ 849 MHz PCS1900: 1850 MHz ~ 1910 MHz WCDMA Band II: 1850 MHz ~ 1910 MHz WCDMA Band V: 824 MHz ~ 849 MHz WLAN802.11b/g/n20: 2412 MHz ~ 2462 MHz WLAN 802.11n40: 2422 MHz ~ 2452 MHz WLAN 802.11a/n20/n40/ac20/ac40: 5725 ~ 5850 MHz Bluetooth: 2402 MHz to 2480 MHz		
Max. Reported SAR(1g): (Limit:1.6W/kg) Test distance: Body:0mm	Band	Mode	Body Worn (W/kg)
	PCB	GSM 850	1.033
	PCB	GSM 1900	0.795
	PCB	WCDMA Band II	0.802
	PCB	WCDMA Band V	0.579
	DTS	2.4G WLAN	0.437
	DTS	BLE	0.108
	NII	5.8G WLAN	0.318
1-g Sum SAR			1.470
FCC Equipment Class	PCS Licensed Transmitter (PCB) Part 15 Spread Spectrum Transmitter (DSS) Digital Transmission System (DTS) Unlicensed National Information Infrastructure TX(NII)		
Operating Mode:	GSM: GSM; GPRS/EGPRS Class 12 WCDMA: RMC, HSDPA, HSUPA Release 6 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 5G WLAN: 802.11a(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 Bluetooth: GFSK + $\pi/4$ DQPSK+8DPSK BLE: GFSK		



Antenna Specification:	GSM/WCDMA: PIFA Antenna Bluetooth: PIFA Antenna WLAN: PIFA Antenna
SIM Card	Only supports single SIM card
Hotspot Mode	Not Support
DTM Mode	Not Support
Note: 1. The SIM card product has one SIM card slot. WWAN wireless transmission will be enabled by one SIM card (single activation). 2. 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 (°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



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
7	FCC KDB 941225 D01 v03r01	SAR Measurement Procedures for 3G Devices
8	FCC KDB 648474 D04 v01r03	SAR Evaluation Considerations for Wireless Handsets
9	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:

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

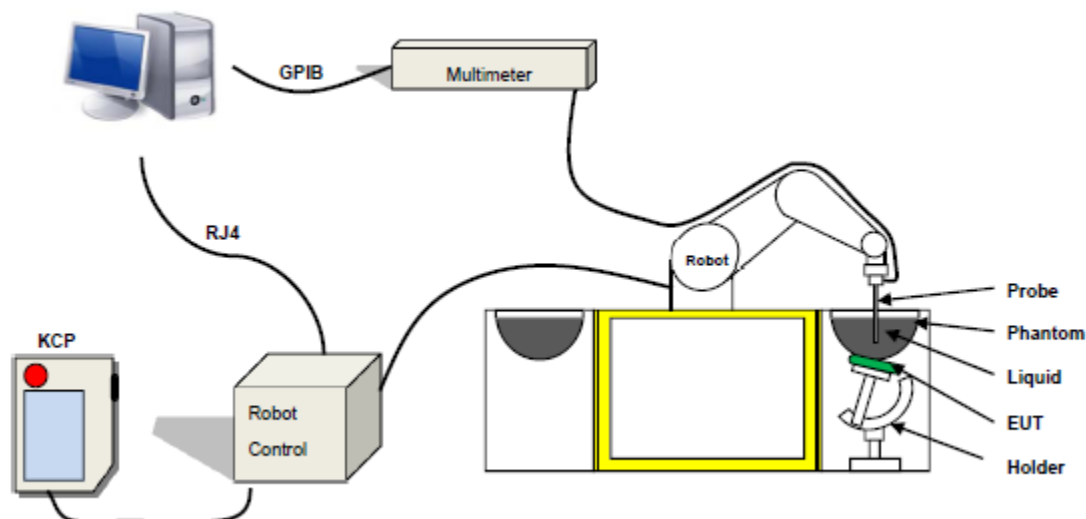
SAR is expressed in units of Watts per kilogram (W/kg) SAR measurement can be related to the electrical field in the tissue by

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

Where: σ is the conductivity of the tissue,
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.

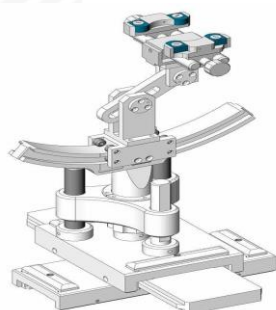
SN 32/14 SAM115



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

4.1 Simulating Liquids Parameter Check

The simulating liquids should be checked at the beginning of a series of SAR measurements to determine if 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	ϵ_r	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**

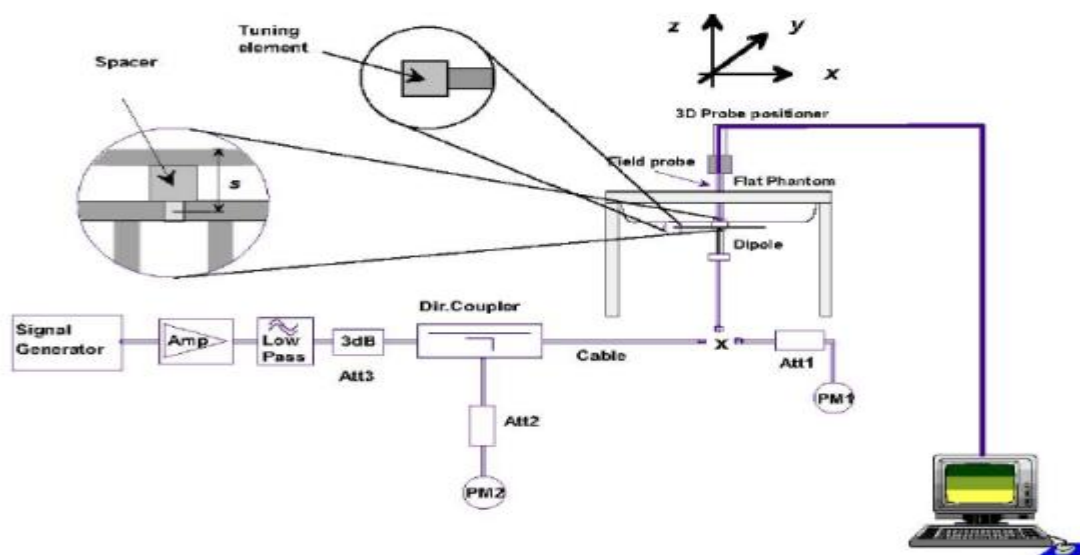
Date	Ambient		Simulating Liquid		Parameters	Target	Measured	Deviation %	Limited %
	Temp. [°C]	Humidity %	Frequency (MHz)	Temp. [°C]					
2025-8-20	22.9	52	824.4	22.7	Permittivity	41.55	41.09	-1.11	±10
					Conductivity	0.90	0.95	5.70	±10
2025-8-20	22.9	52	835	22.7	Permittivity	41.50	41.47	-0.07	±10
					Conductivity	0.90	0.94	4.44	±10
2025-8-20	22.9	52	836.6	22.7	Permittivity	41.49	41.38	-0.27	±10
					Conductivity	0.90	0.91	1.09	±10
2025-8-20	22.9	52	846.6	22.7	Permittivity	41.45	40.82	-1.51	±10
					Conductivity	0.90	0.92	2.07	±10
2025-8-20	22.9	52	848.8	22.7	Permittivity	41.44	40.52	-2.21	±10
					Conductivity	0.90	0.91	0.93	±10
2025-8-21	23.2	49	1852.4	22.9	Permittivity	40.00	41.06	2.65	±10
					Conductivity	1.40	1.40	0.00	±10
2025-8-21	23.2	49	1880	22.9	Permittivity	40.00	40.49	1.23	±10
					Conductivity	1.40	1.45	3.57	±10
2025-8-21	23.2	49	1900	22.9	Permittivity	40.00	40.21	0.53	±10
					Conductivity	1.40	1.43	2.14	±10
2025-8-21	23.2	49	1907.6	22.9	Permittivity	40.00	40.75	1.88	±10
					Conductivity	1.40	1.40	0.00	±10
2025-8-21	23.2	49	1909.8	22.9	Permittivity	40.00	41.05	2.62	±10
					Conductivity	1.40	1.38	-1.43	±10
2025-8-22	23.0	53	2402	22.8	Permittivity	39.29	39.43	0.37	±10
					Conductivity	1.76	1.76	0.15	±10
2025-8-22	23.0	53	2437	22.8	Permittivity	39.22	39.60	0.96	±10
					Conductivity	1.79	1.76	-1.59	±10
2025-8-22	23.0	53	2450	22.8	Permittivity	39.20	39.60	1.02	±10
					Conductivity	1.80	1.75	-2.78	±10
2025-8-22	23.0	53	5745	22.8	Permittivity	35.36	36.43	3.04	±10
					Conductivity	5.21	5.14	-1.39	±10
2025-8-22	23.0	53	5800	22.8	Permittivity	35.30	36.07	2.18	±10
					Conductivity	5.27	5.24	-0.57	±10

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 %.

Date	Frequency (MHz)	Power	SAR _{1g} (W/Kg)	SAR _{10g} (W/Kg)	Drift (%)	1W Target		Difference percentage		Limited %
						SAR _{1g} (W/Kg)	SAR _{10g} (W/Kg)	1g	10g	
2025-08-20	835	100 mW	0.925	0.582	2.63	9.63	6.15	-3.95%	-5.41%	10
		Normalize to 1 Watt	9.25	5.82						
2025-08-21	1900	100 mW	3.950	2.018	-1.13	39.84	20.20	-0.86%	-0.08%	10
		Normalize to 1 Watt	39.50	20.18						
2025-08-22	2450	100 mW	5.418	2.321	-2.96	54.70	24.11	-0.94%	-3.72%	10
		Normalize to 1 Watt	54.18	23.21						
2025-08-22	5800	100 mW	18.190	6.299	1.22	188.95	63.45	-3.73%	-0.72%	10
		Normalize to 1 Watt	181.90	62.99						

Note:

(1) We use a CW signal of 20dBm(835/1900/2450MHz) and 20dBm(5000-6000MHz) for system check, and then all SAR values are normalized to 1W forward power. The result must be within $\pm 10\%$ of target value.



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

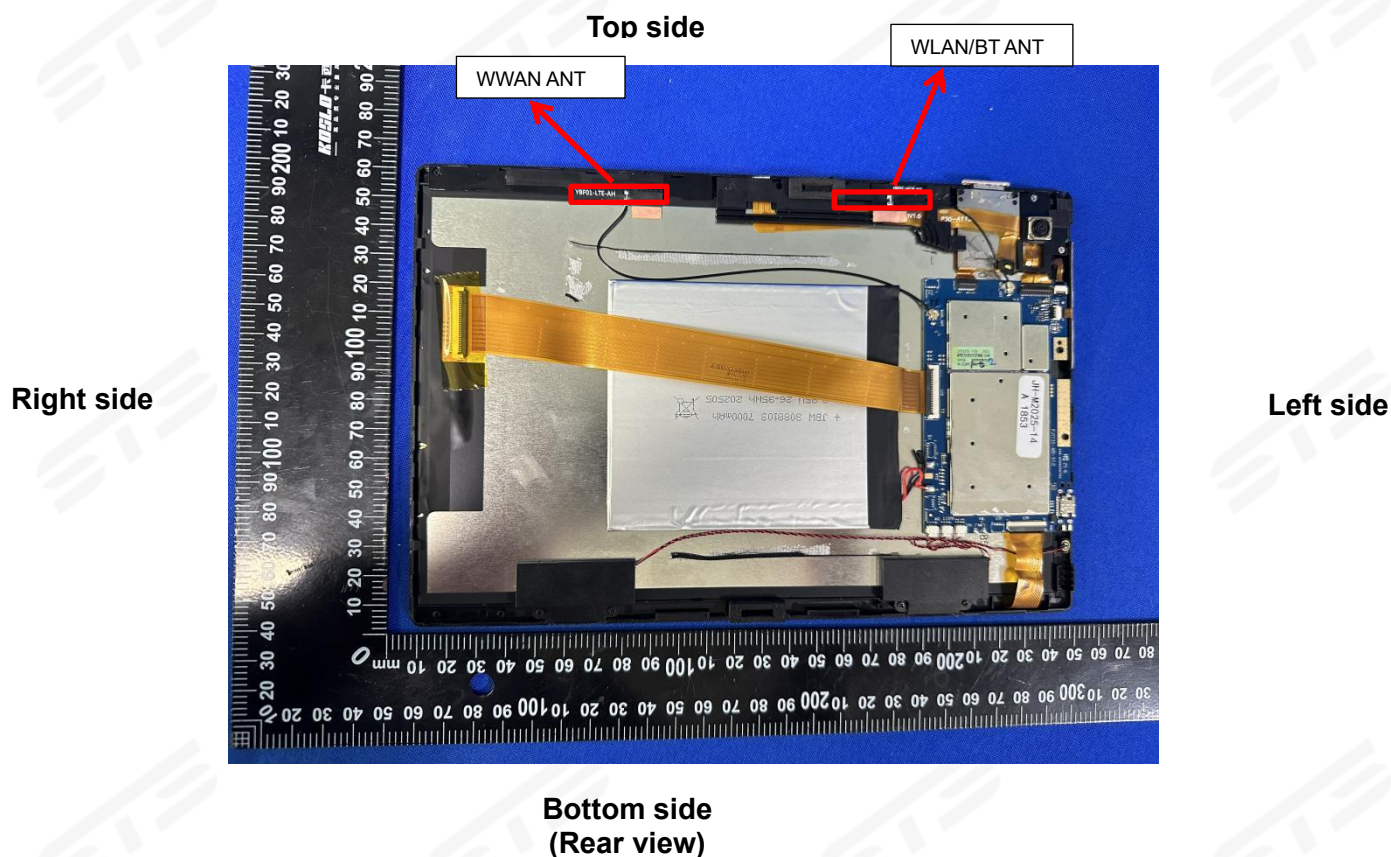
- Establish a call with the maximum output power with a base station simulator. The connection between the mobile and the base station simulator is established via air interface
- Measurement of the local E-field value at a fixed location. This value serves as a reference value for calculating a possible 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.

7. EUT Antenna Location Sketch

It is a tablet, support GSM/WCDMA/WLAN/BT mode.



Antenna Separation Distance(cm)						
ANT	Back Side	Front Side	Left Side	Right Side	Top Side	Bottom Side
WLAN/BT	≤0.5	≤0.5	10	14	≤0.5	15.5
WWAN	≤0.5	≤0.5	18	6	≤0.5	15.5

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



7.1 SAR test exclusion consider table

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

	Wireless Interface	GSM850	PCS1900	WCDMA II	WCDMA V	BT	2.4G WLAN	5.8G WLAN
Exposure Position	Calculated Frequency(GHz)	0.8366	1.9098	1.8524	0.8466	2.402	2.437	5.745
	Maximum Turn-up power (dBm)	32	32.5	26.5	24	6	17	16
	Maximum rated power(mW)	1584.89	1778.28	446.68	251.19	3.98	50.12	39.81
Back Side	Separation distance (cm)	≤0.5	≤0.5	≤0.5	≤0.5	≤0.5	≤0.5	≤0.5
	exclusion threshold(mW)	9.22	3.35	3.43	6.43	2.79	2.76	1.39
	Testing required?	YES	YES	YES	YES	YES	YES	YES
Front Side	Separation distance (cm)	≤0.5	≤0.5	≤0.5	≤0.5	≤0.5	≤0.5	≤0.5
	exclusion threshold(mW)	9.22	3.35	3.43	6.43	2.79	2.76	1.39
	Testing required?	YES	YES	YES	YES	YES	YES	YES
Left Side	Separation distance (cm)	18	18	18	18	10	10	10
	exclusion threshold(mW)	1470.24	2518.60	2520.36	2565.91	821.13	819.34	720.12
	Testing required?	YES	NO	NO	NO	NO	NO	NO
Right Side	Separation distance (cm)	6	6	6	6	14	14	14
	exclusion threshold(mW)	310.56	330.68	333.33	409.05	1555.03	1553.29	1453.48
	Testing required?	YES	YES	YES	NO	NO	NO	NO
Top Side	Separation distance (cm)	≤0.5	≤0.5	≤0.5	≤0.5	≤0.5	≤0.5	≤0.5
	exclusion threshold(mW)	9.22	3.35	3.43	6.43	2.79	2.76	1.39
	Testing required?	YES	YES	YES	YES	YES	YES	YES
Bottom Side	Separation distance (cm)	15.5	15.5	15.5	15.5	15.5	15.5	15.5
	exclusion threshold(mW)	1189.82	1910.49	1913.72	1998.48	1886.39	1884.88	1797.51
	Testing required?	YES	NO	NO	NO	NO	NO	NO

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 P_{th} (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). P_{th} is given by:

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

Where

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

and

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

d = the separation distance (cm);

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	$19.2 R^2$.



6. Per KDB 248227 D01, choose the highest output power channel to test SAR and determine further SAR exclusion 8. for each frequency band, testing at higher data rates and higher order modulations is not required when the maximum average output power for each of these configurations is less than 1/4db higher than those measured at the lower data rate than 11b mode, thus the SAR can be excluded.
7. Per KDB 616217 D04, SAR evaluation for the front surface of tablet display screens are generally not necessary.
8. Per KDB 248227, as maximum rated power for U-NII-2A > U-NII-1, U-NII-2A was chosen for SAR evaluation. Based on the measurements obtained, SAR measurements on U-NII-1 are not required as highest reported SAR from U-NII-2A band is $\leq 1.2\text{W/Kg}$.

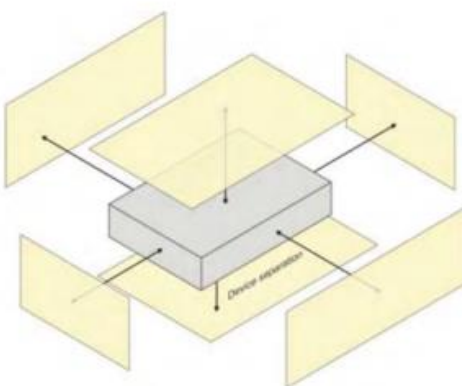
8. EUT Test Position

This EUT was tested in Front Face, Rear Face, Left Side, Right Side, Top Side and Bottom Side.

8.1 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 $> 1.2 \text{ W/kg}$, 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.





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 $k=2$.

SATIMO Uncertainty- SN 08/21 EPG0352									
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	E.2.5	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	E.2.5	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 EPG0352									
• 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	E.2.5	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	



10. Conducted Power Measurement

10.1 Test Result

	Conducted Power(dBm)			EIRP(dBm)		
Band	GSM 850			PCS 1900		
Channel	128	190	251	512	661	810
Frequency (MHz)	824.2	836.6	848.8	1850.2	1880	1909.8
GSM(GMSK, 1-Slot)	30.91	31.97	31.81	31.66	31.07	32.24
GPRS (GMSK,1-Slot)	30.66	30.21	29.89	29.76	29.28	29.50
GPRS (GMSK, 2-Slot)	30.19	30.97	30.72	29.63	29.36	29.84
GPRS (GMSK, 3-Slot)	30.40	29.30	29.93	29.61	30.23	29.78
GPRS (GMSK, 4-Slot)	30.04	29.51	30.64	29.73	30.29	30.87
EGPRS(8PSK, 1-Slot)	30.25	30.12	30.47	30.19	29.98	29.91
EGPRS(8PSK, 2-Slot)	30.43	30.43	30.41	29.40	30.23	29.56
EGPRS(8PSK, 3-Slot)	29.90	30.85	30.00	30.73	30.18	30.00
EGPRS(8PSK, 4-Slot)	30.61	29.69	29.60	30.13	29.96	29.05

Remark: GPRS, CS4 coding scheme. EGPRS, MCS5 coding scheme.

Multi-Slot Class 8, Support Max 4 downlink, 1 uplink, 5 working link

Multi-Slot Class 10, Support Max 4 downlink, 2 uplink, 5 working link

Multi-Slot Class 12, Support Max 4 downlink, 4 uplink, 5 working link

Fram- RF Output Power (dBm)						
Band	GSM 850			PCS 1900		
Channel	128	190	251	512	661	810
Frequency (MHz)	824.2	836.6	848.8	1850.2	1880	1909.8
GSM(GMSK, 1-Slot)	21.88	22.94	22.78	22.63	22.04	23.21
GPRS (GMSK,1-Slot)	21.63	21.18	20.86	20.73	20.25	20.47
GPRS (GMSK, 2-Slot)	24.17	24.95	24.70	23.61	23.34	23.82
GPRS (GMSK, 3-Slot)	26.14	25.04	25.67	25.35	25.97	25.52
GPRS (GMSK, 4-Slot)	27.03	26.50	27.63	26.72	27.28	27.86
EGPRS(8PSK, 1-Slot)	21.22	21.09	21.44	21.16	20.95	20.88
EGPRS(8PSK, 2-Slot)	24.41	24.41	24.39	23.38	24.21	23.54
EGPRS(8PSK, 3-Slot)	25.64	26.59	25.74	26.47	25.92	25.74
EGPRS(8PSK, 4-Slot)	27.60	26.68	26.59	27.12	26.95	26.04

Remark :

1. SAR testing was performed on the maximum frame-averaged power mode.

2. The frame-averaged power is linearly proportion to the slot number configured and it is linearly scaled the maximum

Burst - averaged power based on time slots. The calculated method is shown as below:

Frame-averaged power = Burst averaged power (1 TX Slot) – 9.03 dB

Frame-averaged power = Burst averaged power (2 TX Slots) – 6.02 dB

Frame-averaged power = Burst averaged power (3 TX Slots) - 4.26 dB

Frame-averaged power = Burst averaged power (4 TX Slots) – 3.01 dB

**WCDMA**

Band	WCDMA Band 2			WCDMA Band 5		
Channel	9262	9400	9538	4132	4183	4233
Frequency (MHz)	1852.4	1880	1907.6	826.4	836.6	846.6
RMC 12.2Kbps	26.12	25.63	25.90	23.40	23.40	23.53
HSDPA Subtest-1	23.15	24.49	24.27	22.35	21.95	22.91
HSDPA Subtest-2	24.16	23.94	23.82	22.41	22.66	22.75
HSDPA Subtest-3	24.51	24.67	24.33	22.85	22.10	21.79
HSDPA Subtest-4	24.11	24.31	24.93	22.34	22.08	22.26
HSUPA Subtest-1	24.35	23.11	24.99	22.71	22.81	22.19
HSUPA Subtest-2	23.59	23.71	23.27	21.80	22.51	22.44
HSUPA Subtest-3	24.17	23.52	24.47	22.21	22.40	22.95
HSUPA Subtest-4	24.37	24.70	23.93	22.85	21.82	21.90
HSUPA Subtest-5	24.48	23.20	25.08	22.83	22.02	22.42

According to 3GPP 25.101 sub-clause 6.2.2, the maximum output power is allowed to be reduced by following the table.

Table 6.1A: UE maximum output power with HS-DPCCH and E-DCH

UE Transmit Channel Configuration	CM(db)	MPR(db)
For all combinations of ,DPDCH,DPCCH HS-DPDCH,E-DPDCH and E-DPCCH	$0 \leq CM \leq 3.5$	MAX(CM-1,0)
Note: CM=1 for $\beta_c/\beta_d=12/15$, $\beta_{hs}/\beta_c=24/15$.For all other combinations of DPDCH, DPCCH, HS-DPCCH, E-DPDCH and E-DPCCH the MPR is based on the relative CM difference.		

The device supports MPR to solve linearity issues (ACLR or SEM) due to the higher peak-to average ratios (PAR) of the HSUPA signal. This prevents saturating the full range of the TX DAC inside of device and provides a reduced power output to the RF transceiver chip according to the Cubic Metric (a function of the combinations of DPDCH, DPCCH, HS-DPCCH, E-DPDCH and E-DPCCH).

When E-DPDCH channels are present the beta gains on those channels are reduced firsts to try to get the power under the allowed limit. If the beta gains are lowered as far as possible, then a hard limiting is applied at the maximum allowed level.

The SW currently recalculates the cubic metric every time the beta gains on the E-DPDCH are reduced. The cubic metric will likely get lower each time this is done .However, there is no reported reduction of maximum output power in the HSUPA mode since the device also provides a compensation for the power back-off by increasing the gain of TX_AGC in the transceiver (PA) device.

The end effect is that the DUT output power is identical to the case where there is no MPR in the device.

**2.4G WLAN**

2.4GWIFI				
Mode	Channel Number	Frequency (MHz)	Conducted Power(dBm)	Output Power (mW)
802.11b	1	2412	14.65	29.17
	6	2437	14.92	31.05
	11	2462	14.71	29.58
802.11g	1	2412	16.5	44.67
	6	2437	16.18	41.50
	11	2462	16.04	40.18
802.11 n-HT20	1	2412	15.97	39.54
	6	2437	16.71	46.88
	11	2462	16.25	42.17
802.11 n-HT40	3	2422	16.79	47.75
	6	2437	16.87	48.64
	9	2452	16.61	45.81

Bluetooth

BT				
Mode	Channel Number	Frequency (MHz)	Max. Conducted Power(dBm)	Output Power (mW)
GFSK(1Mbps)	0	2402	5.93	3.92
	39	2441	5.73	3.74
	78	2480	5.18	3.30
$\pi/4$ -QPSK(2Mbps)	0	2402	4.9	3.09
	39	2441	4.88	3.08
	78	2480	4.38	2.74
8DPSK(3Mbps)	0	2402	4.9	3.09
	39	2441	4.9	3.09
	78	2480	4.34	2.72

BLE

BLE				
Mode	Channel Number	Frequency (MHz)	Max. Conducted Power(dBm)	Output Power (mW)
GFSK(1Mbps)	0	2402	5.94	3.93
	19	2440	5.76	3.77
	39	2480	5.11	3.24

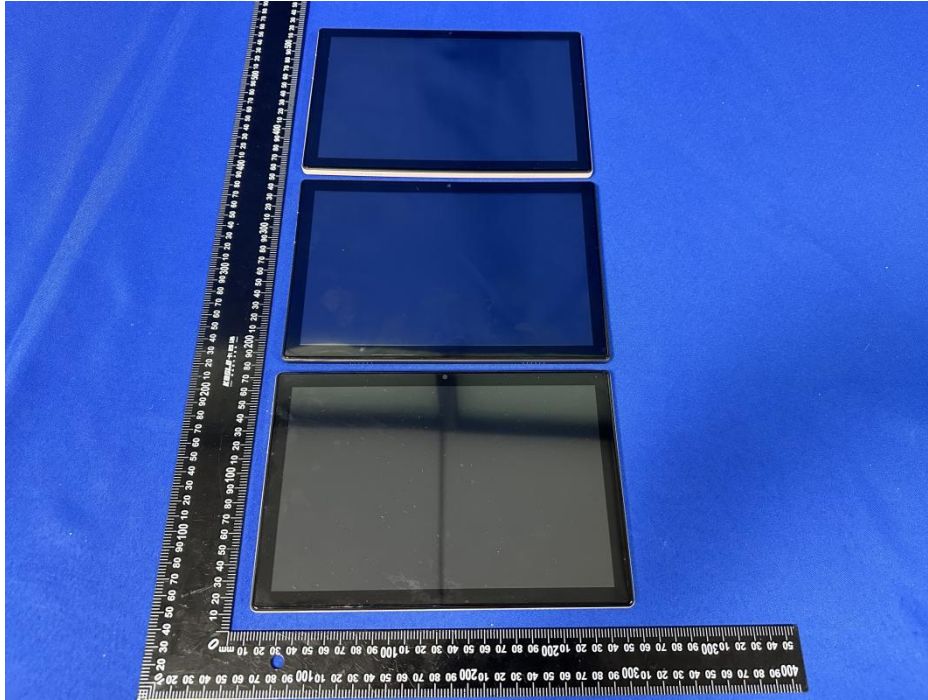
**WLAN (5.8Gband)**

5.8GWIFI				
Mode	Channel Number	Frequency (MHz)	Total Power(dBm)	Output Power (mW)
802.11a	149	5745	12.19	16.56
	157	5785	12.27	16.87
	165	5825	12.94	19.68
802.11n-HT 20	149	5745	12.21	16.63
	157	5785	12.11	16.26
	165	5825	13.44	22.08
802.11 n-HT40	151	5755	14.57	28.64
	159	5795	14.96	31.33
802.11ac-VHT 20	149	5745	15.53	35.73
	157	5785	14.24	26.55
	165	5825	15.33	34.12
802.11ac-VHT40	151	5755	14.11	25.76
	159	5795	15.12	32.51

11. EUT and Test Setup Photo

11.1 EUT Photo

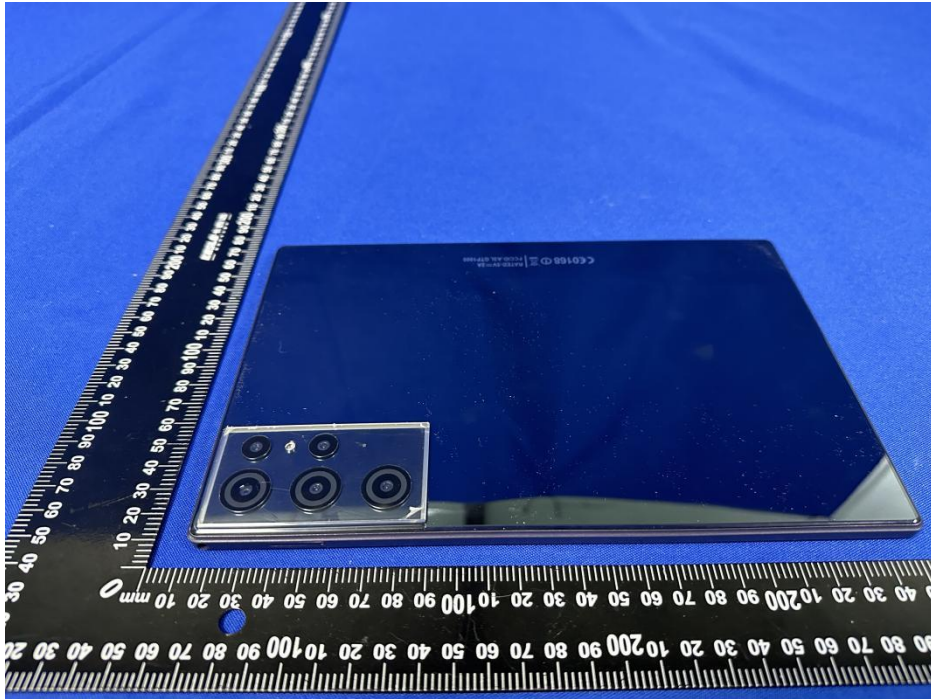
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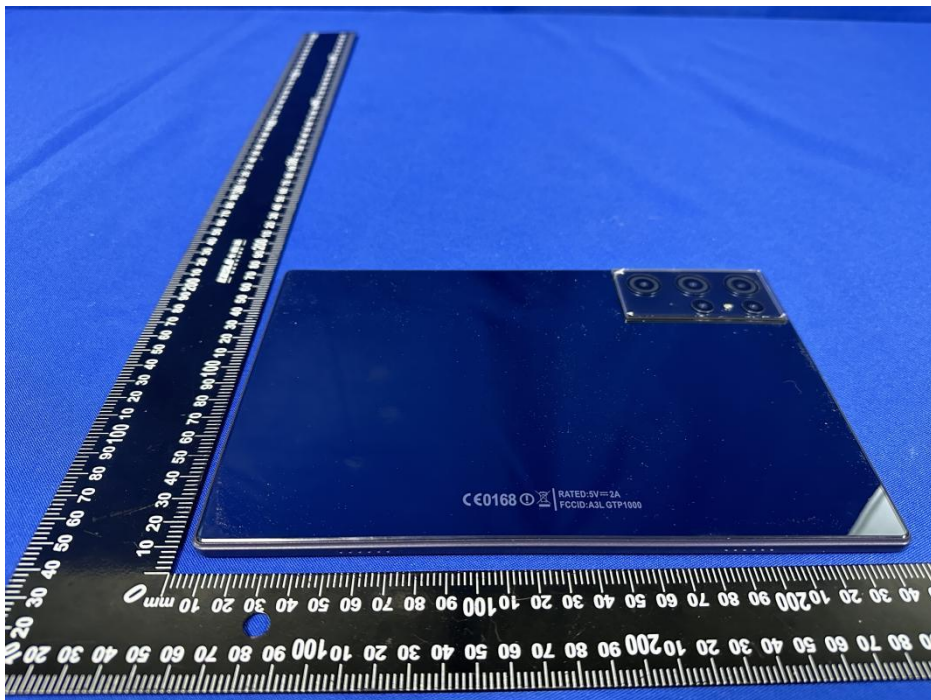
Back side



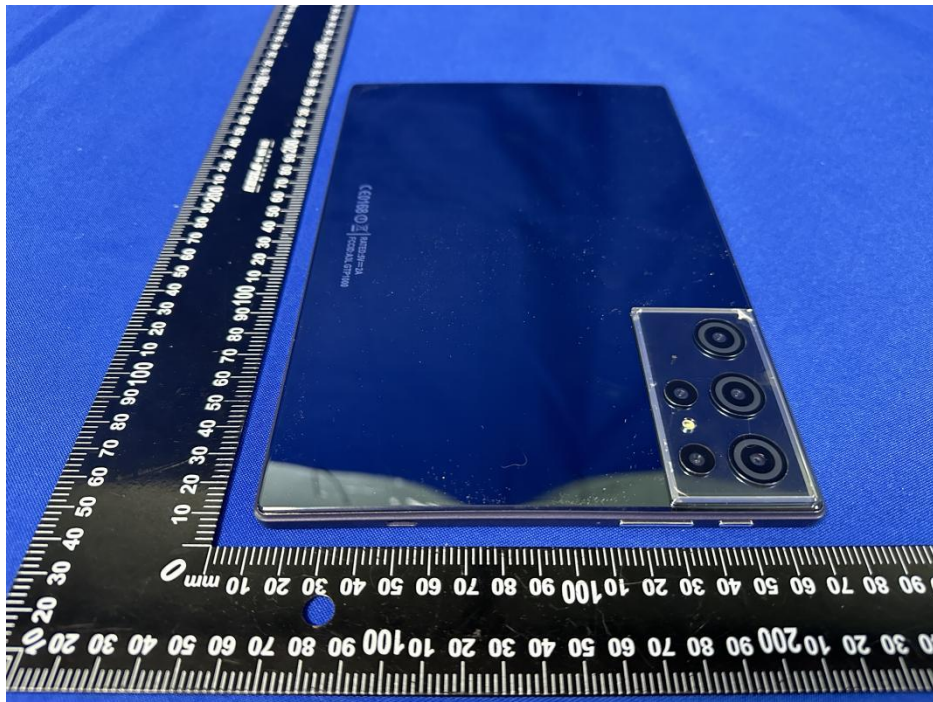
Top side



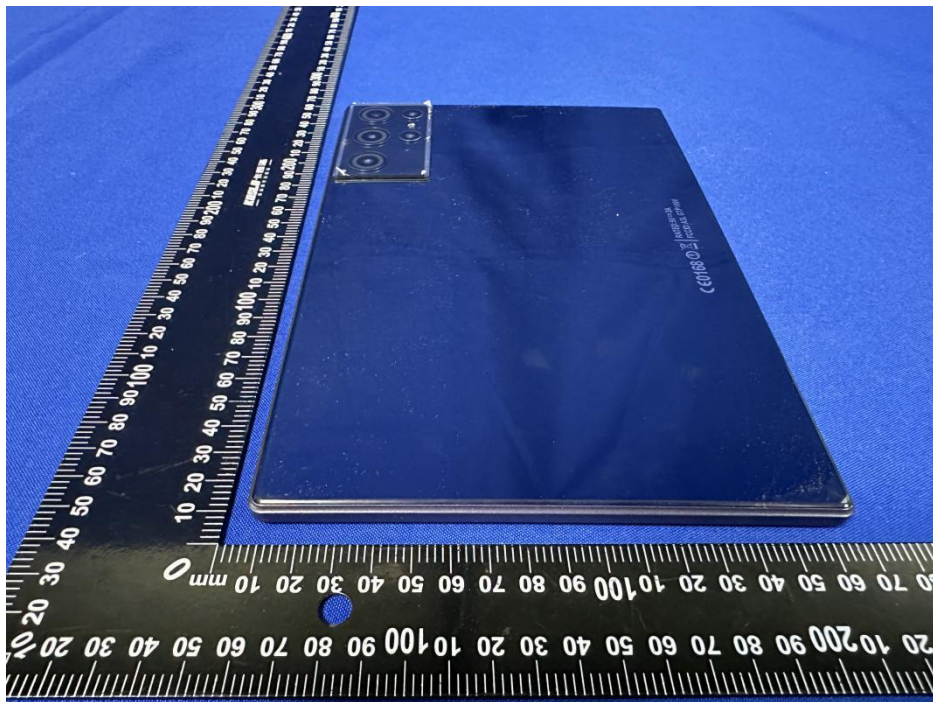
Bottom side



Left side

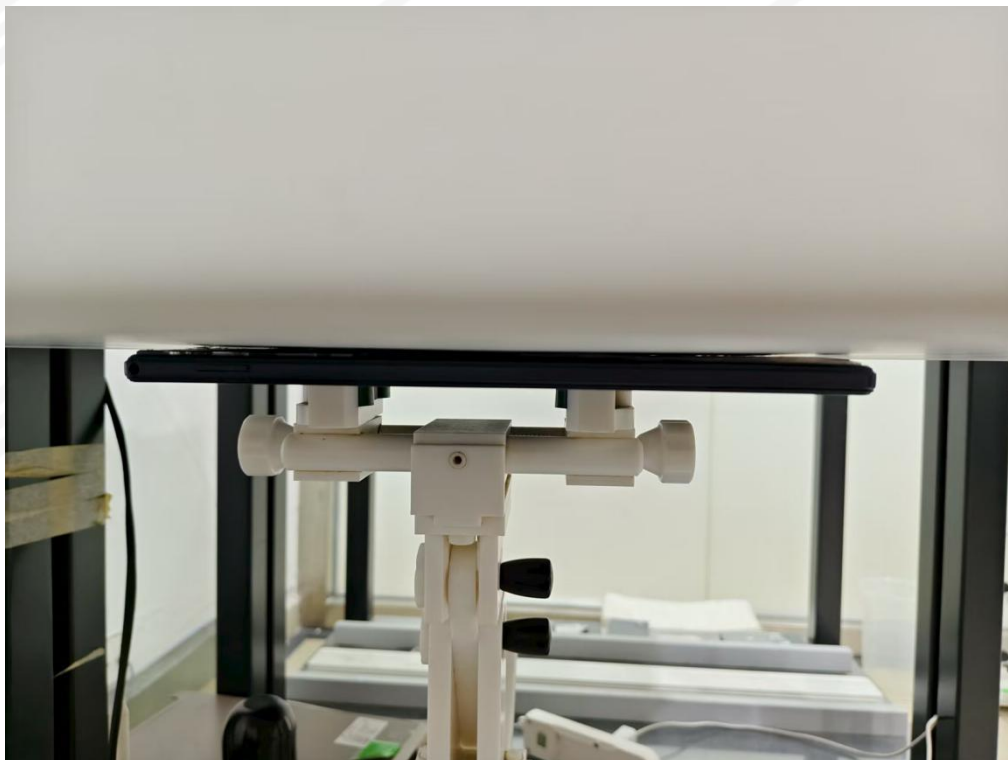


Right side



11.2 Setup Photo

Body Front side(separation distance is 0mm)



Body Back side(separation distance is 0mm)



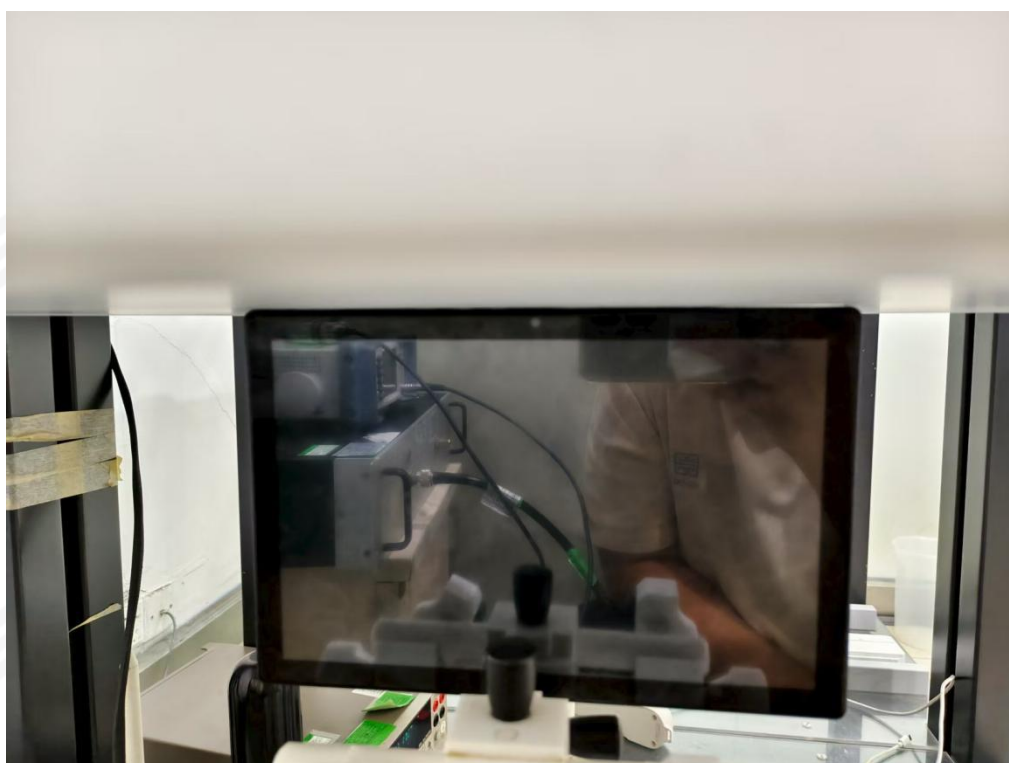
Body Left side(separation distance is 0mm)



Body Right side(separation distance is 0mm)



Body Bottom side(separation distance is 0mm)

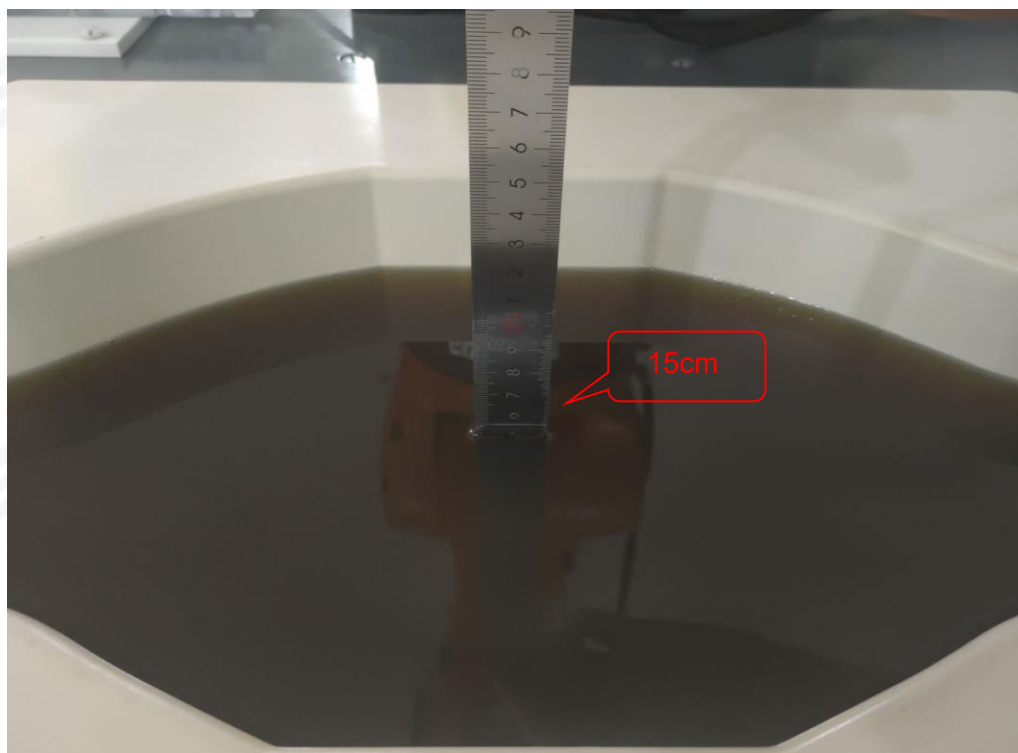




Body Top side(separation distance is 0mm)



Liquid depth (15 cm)





12. SAR Result Summary

12.2 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.
GSM850	GPRS Data-4 Slot	Front Side	824.2	0.699	-3.56	30.50	30.04	1.112	0.777	/
		Front Side	836.6	0.715	0.95	30.00	29.51	1.119	0.800	/
		Front Side	848.8	0.746	1.06	31.00	30.64	1.086	0.810	/
		Back Side	824.2	0.897	0.14	30.50	30.04	1.112	0.997	/
		Back Side	836.6	0.903	1.86	30.00	29.51	1.119	1.011	/
		Back Side	848.8	0.951	1.51	31.00	30.64	1.086	1.033	1
		Left Side	848.8	0.187	1.83	31.00	30.64	1.086	0.203	/
		Right Side	848.8	0.364	-2.59	31.00	30.64	1.086	0.395	/
		Top Side	848.8	0.559	-3.64	31.00	30.64	1.086	0.607	/
		Bottom Side	848.8	0.213	2.34	31.00	30.64	1.086	0.231	/
GSM1900	GPRS Data-4 Slot	Front Side	1909.8	0.616	0.76	31.00	30.87	1.030	0.635	/
		Back Side	1909.8	0.772	1.23	31.00	30.87	1.030	0.795	2
		Right Side	1909.8	0.358	2.62	31.00	30.87	1.030	0.369	/
WCDMA Band II	RMC	Front Side	1852.4	0.702	-0.88	26.50	26.12	1.091	0.766	/
		Back Side	1852.4	0.735	-0.61	26.50	26.12	1.091	0.802	3
		Back Side	1880	0.717	-1.61	26.50	26.12	1.091	0.783	/
		Back Side	1907.6	0.724	-0.90	26.50	26.12	1.091	0.790	/
		Right Side	1852.4	0.317	0.62	26.50	26.12	1.091	0.346	/
WCDMA Band V	RMC	Front Side	846.6	0.488	-0.18	24.00	23.53	1.114	0.544	/
		Back Side	846.6	0.52	-0.79	24.00	23.53	1.114	0.579	4
		Top Side	846.6	0.412	-2.11	24.00	23.53	1.114	0.459	/
2.4GHz WLAN	802.11b	Front Side	2437	0.387	3.91	15.00	14.92	1.019	0.394	/
		Back Side	2437	0.429	-1.54	15.00	14.92	1.019	0.437	5
		Top Side	2437	0.361	3.04	15.00	14.92	1.019	0.368	/
	802.11 n-HT40	Front Side	2437	0.338	2.41	17.00	16.87	1.030	0.348	/
		Back Side	2437	0.405	-0.95	17.00	16.87	1.030	0.417	6
		Top Side	2437	0.329	-1.54	17.00	16.87	1.030	0.339	/
BLE	GFSK	Front Side	2402	0.086	-1.98	6.00	5.94	1.014	0.087	/
		Back Side	2402	0.107	0.23	6.00	5.94	1.014	0.108	7
		Top Side	2402	0.080	-3.38	6.00	5.94	1.014	0.081	/
5.8GHz WLAN	802.11 ac- VHT20	Front Side	5745	0.213	-2.23	16.00	15.53	1.114	0.237	/
		Back Side	5745	0.285	0.09	16.00	15.53	1.114	0.318	8
		Top Side	5745	0.188	-1.17	16.00	15.53	1.114	0.209	/



Note:

- The test separation of all above table is 0mm.
- Per KDB 447498 D04, the reported SAR is the measured SAR value adjusted for maximum tune-up tolerance.
 - 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.
 - Scaled SAR(W/kg)= Measured SAR(W/kg)*Tune-up Scaling Factor
- 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.

12.3 Repeated SAR

Band	Mode	Test Position	Freq.	Result 1g (W/Kg)	Power Drift(%)	Max.Turn-up Power(dBm)	Meas.Output Power(dBm)	Scaled SAR(W/Kg)	Meas No.
GSM850	GPRS Data-4 Slot	Front Side	836.6	0.71	0.95	30	29.51	0.793	-
		Front Side	848.8	0.72	1.06	31	30.64	0.778	-
		Back Side	824.2	0.87	0.14	30.5	30.04	0.972	-
		Back Side	836.6	0.90	1.86	30	29.51	1.002	-
		Back Side	848.8	0.91	1.51	31	30.64	0.987	-
WCDMA Band II	RMC	Back Side	1852.4	0.71	-0.61	26.5	26.12	0.770	-

12.4 Repeated SAR measurement

Band	Mode	Test Position	Freq.	Original Measured SAR 1g(W/kg)	1 st Repeated SAR 1g	Ratio	Original Measured SAR 1g(W/kg)	2nd Repeated SAR 1g	Ratio
GSM850	GPRS Data-4 Slot	Front Side	836.6	0.715	0.709	1.009	-	-	-
		Front Side	848.8	0.746	0.716	1.042	-	-	-
		Back Side	824.2	0.897	0.874	1.026	-	-	-
		Back Side	836.6	0.903	0.895	1.009	-	-	-
		Back Side	848.8	0.951	0.908	1.047	-	-	-
WCDMA Band II	RMC	Back Side	1852.4	0.735	0.705	1.042	-	-	-

Note:

- Per KDB 865664 D01,for each frequency band ,repeated SAR measurement is required only when the measured SAR is ≥ 0.8 W/Kg.
- Per KDB 865664 D01,if the ratio of largest to smallest SAR for the original and first repeated measurement is ≤ 1.2 and the measured SAR < 1.45 W/Kg, only one repeated measurement is required.
- Perform a second repeated measurement only if the ratio of largest to smallest SAR for the original and first repeated measurements is > 1.20 or when the original or repeated measurement is ≥ 1.45 W/Kg.
- The ratio is the difference in percentage between original and repeated measured SAR.



12.5 Simultaneous Multi-band Transmission Evaluation

Application Simultaneous Transmission information:

Position	Simultaneous State
Body	1. GSM + 2.4GHz WLAN/5G WLAN
	2. GSM + Bluetooth
	3. WCDMA + 2.4GHz WLAN/5G WLAN
	4. WCDMA + Bluetooth

NOTE:

1. Bluetooth and WLAN can't simultaneous transmission at the same time.
2. For simultaneous transmission at body exposure position, 2 transmitters simultaneous transmission was the worst state.
3. If the test separation distance is <5mm, 5mm is used for excluded SAR calculation.
4. KDB 447498 / 4.3.2 (2) when standalone SAR test exclusion applies to an antenna that transmits simultaneously with other antennas, the standalone SAR must be estimated according to following to determine simultaneous transmission SAR test exclusion: a) (max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)]·[√f (GHz) /x] W/kg for test separation distances ≤ 50 mm; Where x = 7.5 for 1-g SAR, and x = 18.75 for 10-g SAR. b) 0.4W/Kg for 1-g SAR and 1.0W/Kg for 10-g SAR, when the separation distance is >50mm.

Simultaneous Mode	Position	Mode	Max. 1-g SAR	1-g Sum SAR
			(W/kg)	(W/kg)
GSM + 2.4G WLAN	Body	GSM	1.033	1.470
		2.4G WLAN	0.437	
GSM + Bluetooth	Body	GSM	1.033	1.141
		Bluetooth	0.108	
GSM + 5G WLAN	Body	GSM	1.033	1.351
		5G WLAN	0.318	
WCDMA + 2.4G WLAN	Body	WCDMA	0.802	1.239
		2.4G WLAN	0.437	
WCDMA + Bluetooth	Body	WCDMA	0.802	0.910
		Bluetooth	0.108	
WCDMA + 5G WLAN	Body	WCDMA	0.802	1.120
		5G WLAN	0.318	

Simultaneous transmission SAR test exclusion is determined for each operating configuration and exposure condition according to the reported standalone SAR of each applicable simultaneous transmitting antenna.

When the sum of SAR 1g of all simultaneously transmitting antennas in an operating mode and exposure condition combination is within the SAR limit (SAR-1g 1.6 W/kg), the simultaneous transmission SAR is not required. When the sum of SAR 1g is greater than the SAR limit (SAR-1g 1.6 W/kg), SAR test exclusion is determined by the SPLSR.



13. Equipment List

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibration	Calibrated Until
835MHz Dipole	MVG	SID835	SN 30/14 DIP0G835-332	2023.07.04	2026.07.03
1900MHz Dipole	MVG	SID1900	SN 30/14 DIP1G900-333	2023.09.14	2026.09.13
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 EPO352	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 (835MHz)

Type: Phone measurement (Complete)

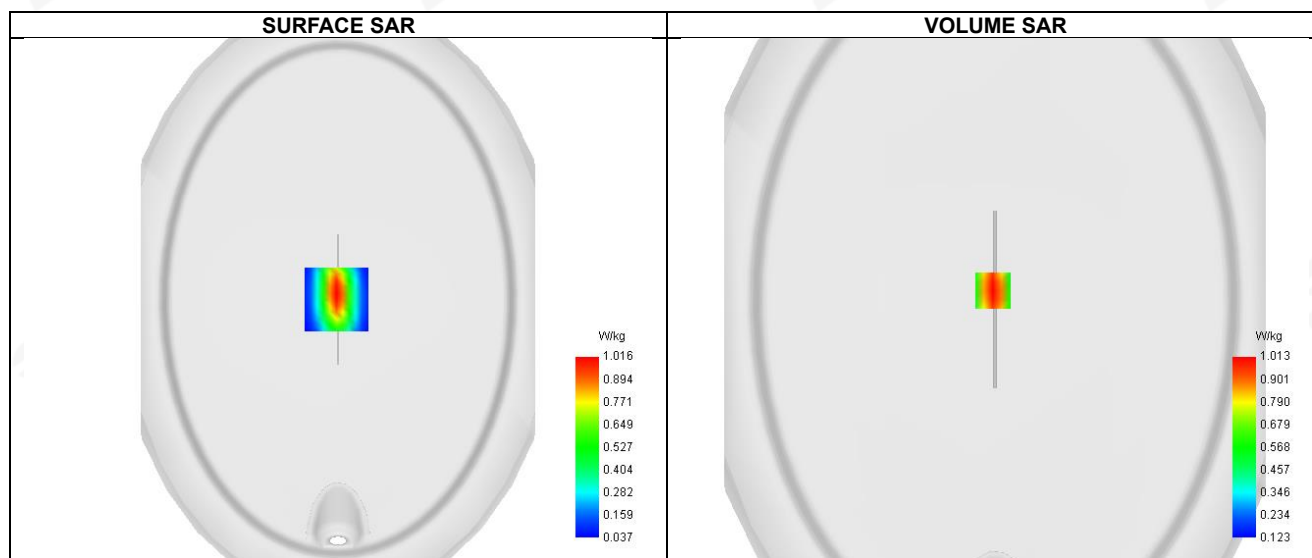
Area scan resolution: dx=8mm, dy=8mm

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

Date of measurement: 2025-08-20

Experimental conditions

Phantom	Validation plane
Device Position	Dipole
Band	835MHz
Channels	Middle
Signal	CW
Frequency (MHz)	835MHz
Relative permittivity	41.47
Conductivity (S/m)	0.94
Probe	SN 08/21 EPGO352
ConvF	1.44
Crest factor:	1:1



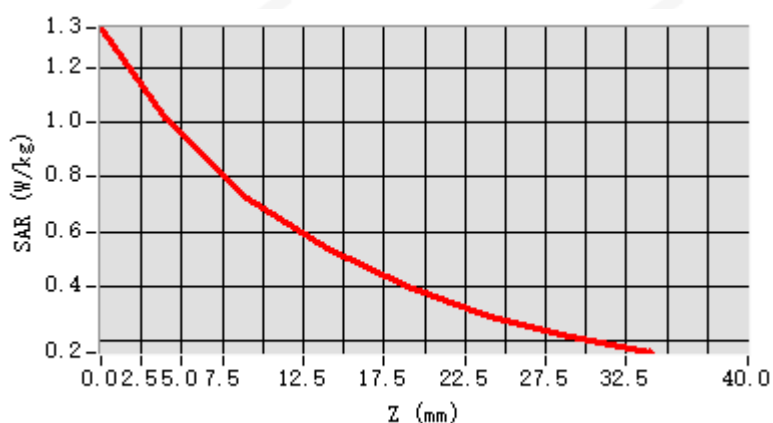
Maximum location: X=-2.00, Y=8.00 ; SAR Peak: 1.34 W/kg

D. SAR 1g & 10g

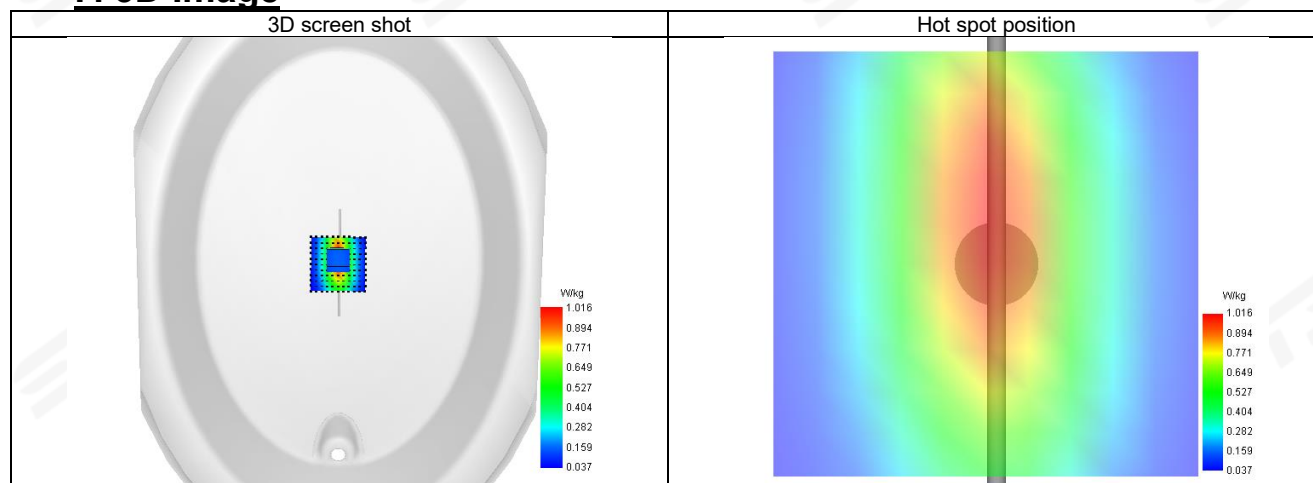
SAR 10g (W/Kg)	0.582
SAR 1g (W/Kg)	0.925
Horizontal validation criteria: minimum distance (mm)	8.325674
Vertical validation criteria: SAR ratio M2/M1 (%)	71.372161

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.342	1.013	0.723	0.541	0.397	0.292	0.214



F. 3D Image



System Performance Check Data (1900MHz)

Type: Phone measurement (Complete)

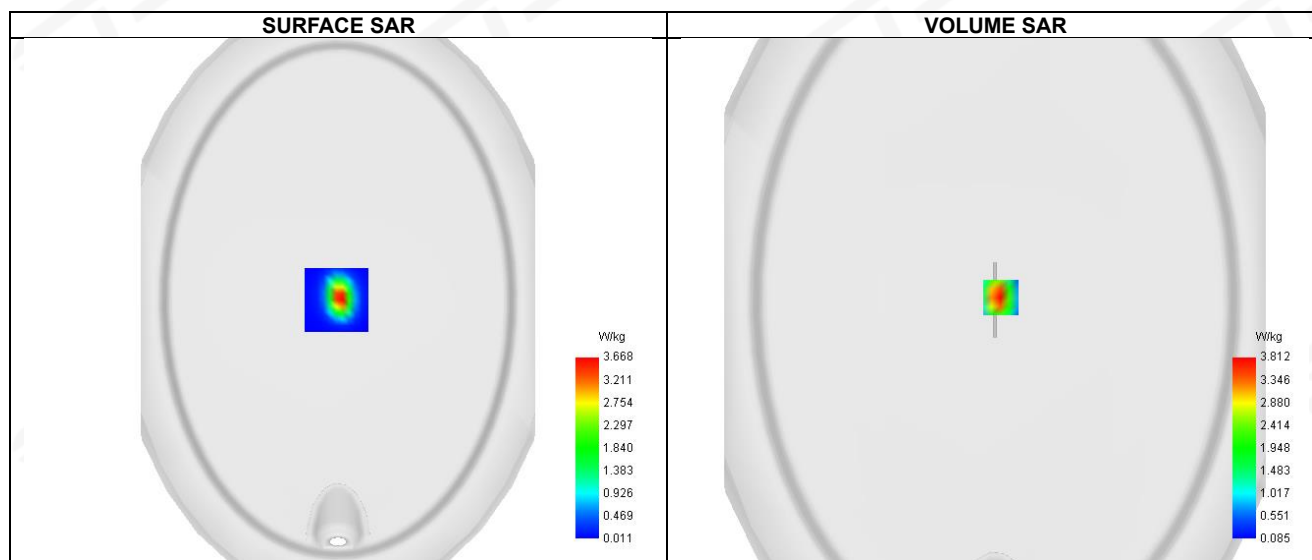
Area scan resolution: dx=8mm, dy=8mm

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

Date of measurement: 2025-08-21

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	1900MHz
Channels	Middle
Signal	CW
Frequency (MHz)	1900MHz
Relative permittivity	40.21
Conductivity (S/m)	1.43
Probe	SN 08/21 EPGO352
ConvF	1.72
Crest factor:	1:1



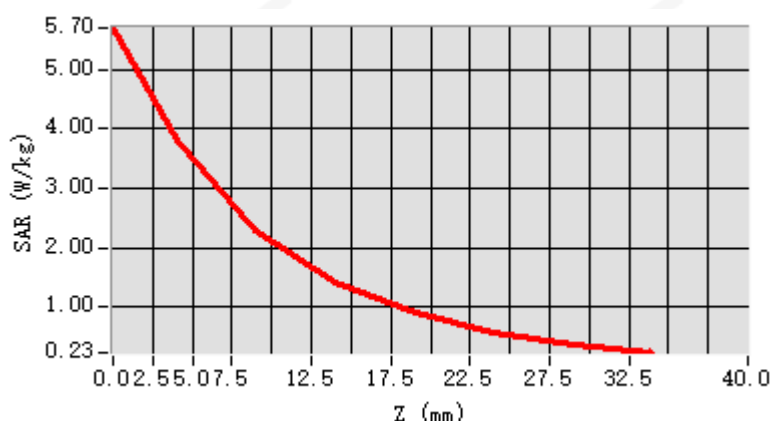
Maximum location: X=5.00, Y=2.00 ; SAR Peak: 5.83 W/kg

D. SAR 1g & 10g

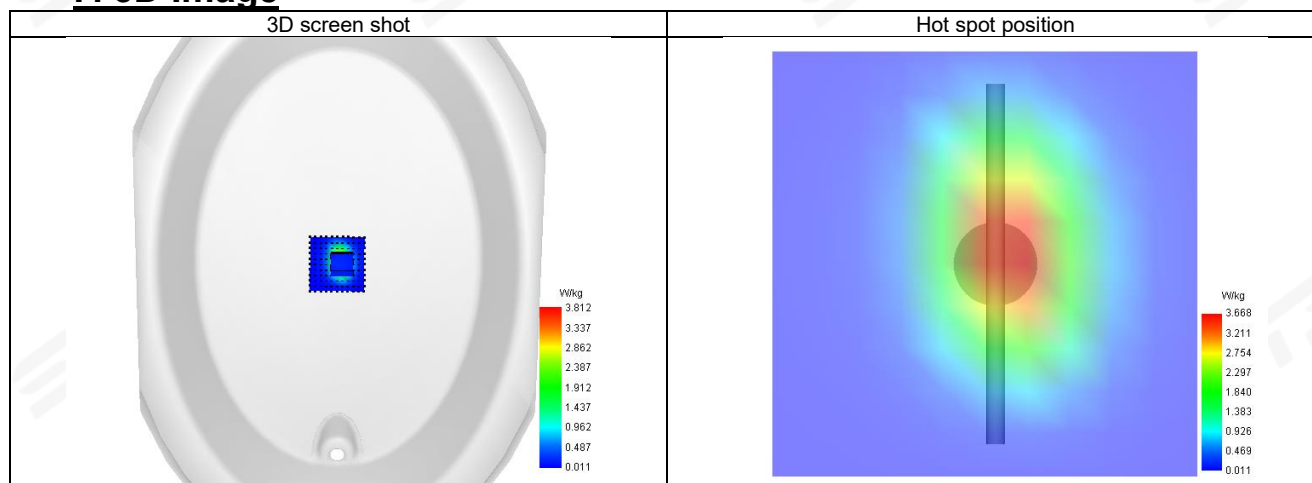
SAR 10g (W/Kg)	2.018
SAR 1g (W/Kg)	3.950
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	60.094112

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	5.697	3.812	2.291	1.421	0.892	0.563	0.358



F. 3D Image



**System Performance Check Data (2450MHz)**

Type: Phone measurement (Complete)

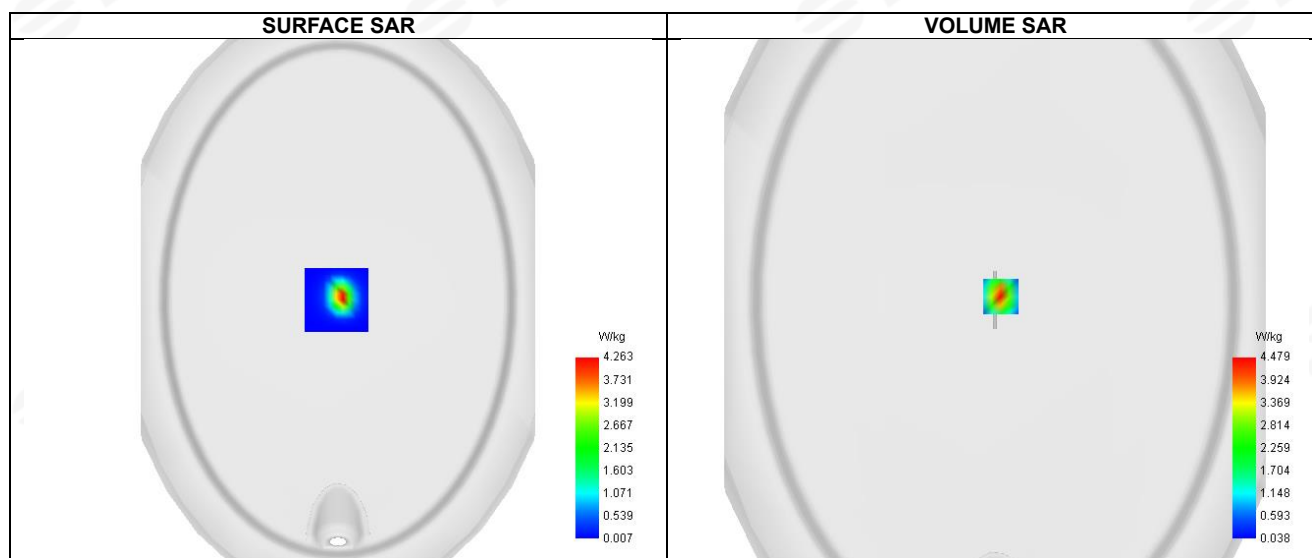
Area scan resolution: dx=8mm, dy=8mm

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

Date of measurement: 2025-08-22

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	2450MHz
Channels	Middle
Signal	CW
Frequency (MHz)	2450
Relative permittivity	39.60
Conductivity (S/m)	1.75
Probe	SN 08/21 EPGO352
ConvF	1.80
Crest factor:	1:1



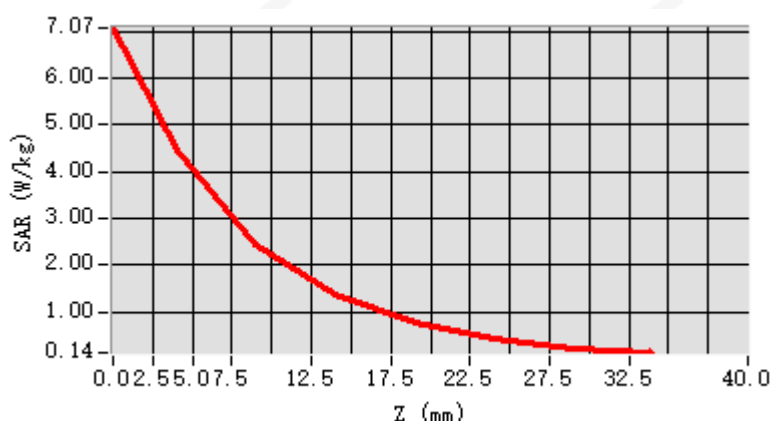
Maximum location: X=5.00, Y=3.00 ; SAR Peak: 7.02 W/kg

D. SAR 1g & 10g

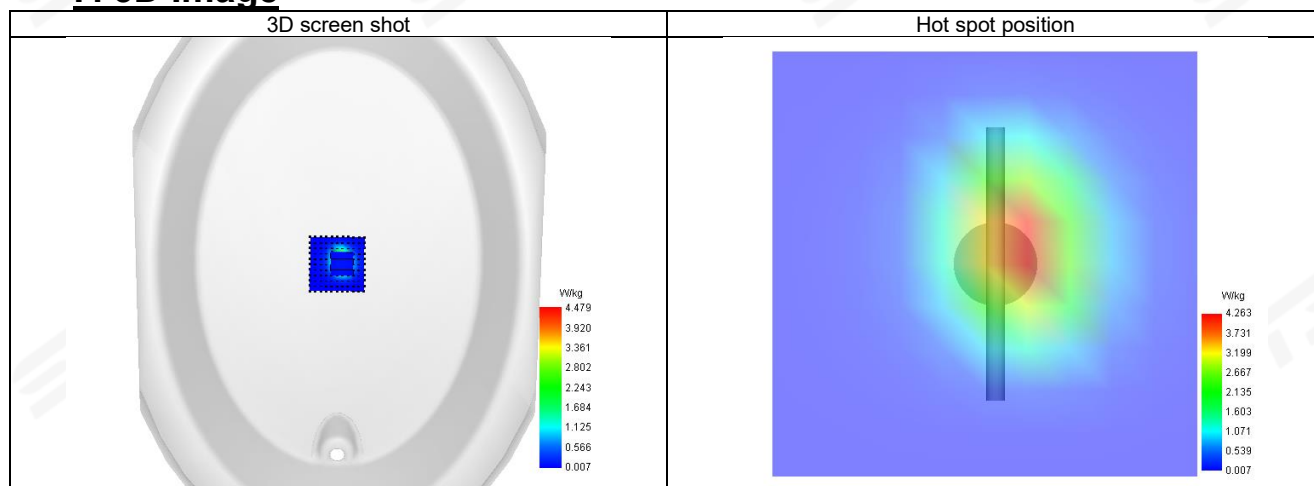
SAR 10g (W/Kg)	2.321
SAR 1g (W/Kg)	5.418
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	54.936061

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	7.067	4.479	2.461	1.388	0.775	0.432	0.241



F. 3D Image



**System Performance Check Data (5800MHz)**

Type: Dipole measurement (Complete)

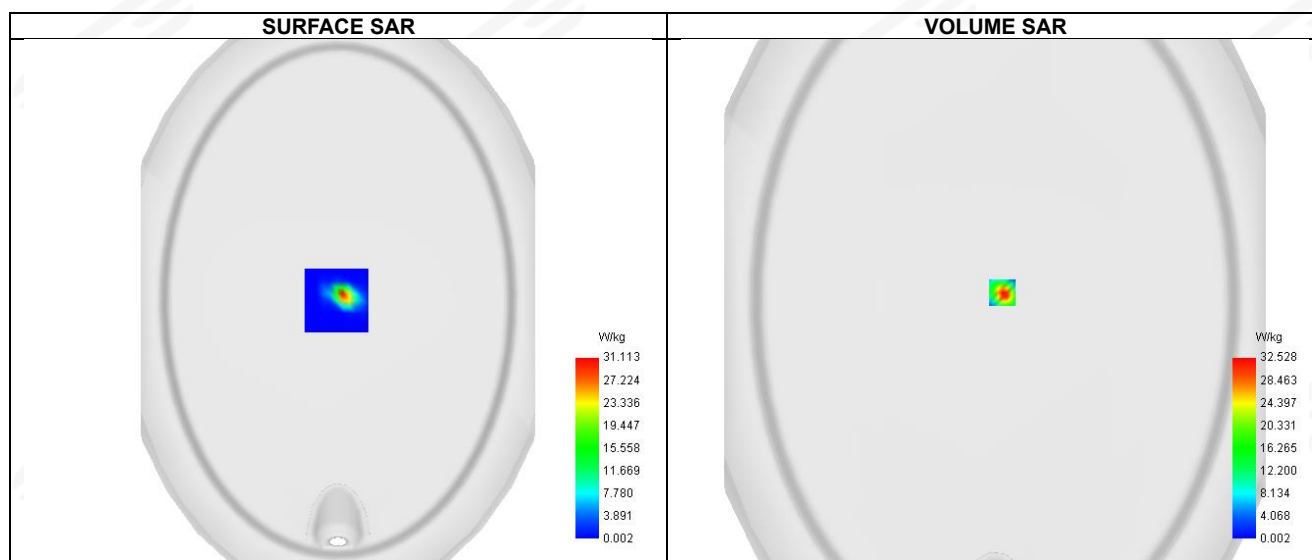
Area scan resolution: dx=8mm,dy=8mm

Zoom scan resolution: dx=4mm, dy=4mm, dz=2mm

Date of measurement: 2025-08-22

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	5800MHz
Channels	Middle
Signal	CW
Frequency (MHz)	5800
Relative permittivity	36.07
Conductivity (S/m)	5.24
Probe	SN 08/21 EPGO352
ConvF	1.35
Crest factor:	1:1



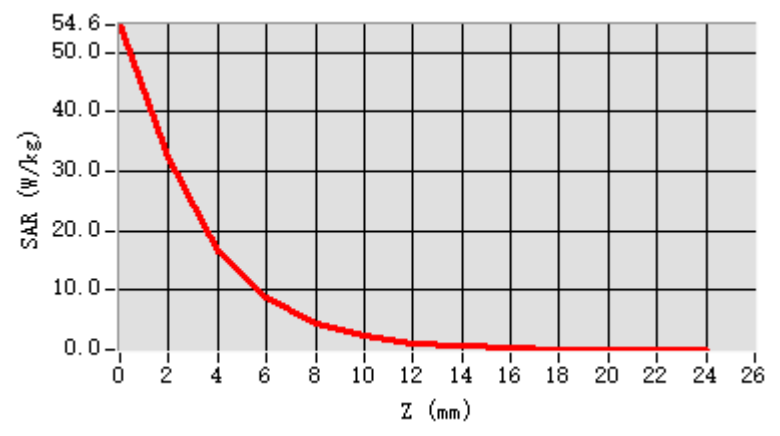
Maximum location: X=7.00, Y=7.00 ; SAR Peak: 58.68 W/kg

D. SAR 1g & 10g

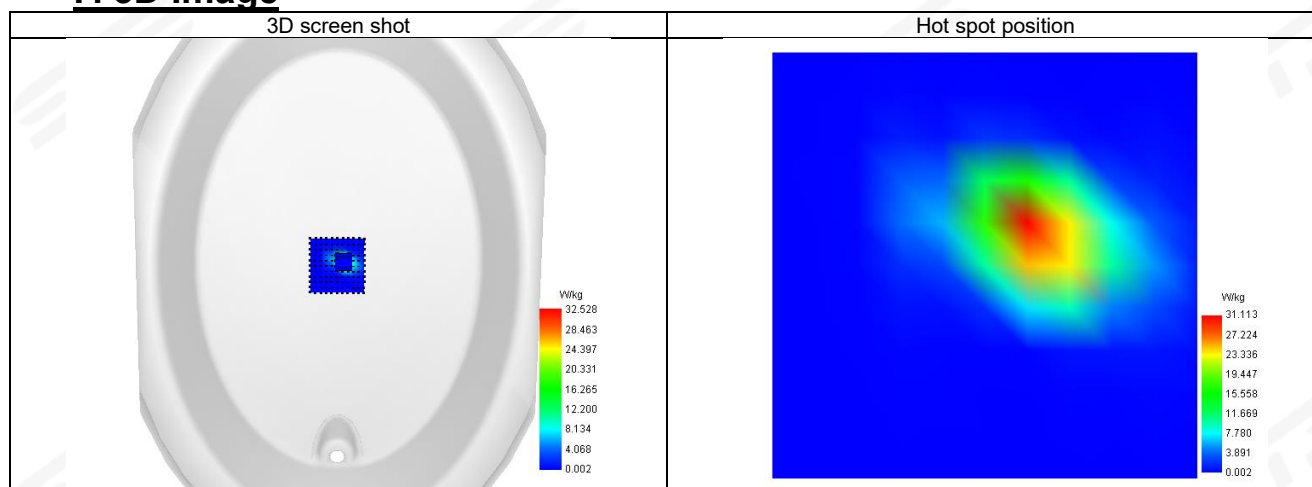
SAR 10g (W/Kg)	6.30
SAR 1g (W/Kg)	18.19
Horizontal validation criteria: minimum distance (mm)	8.944272
Vertical validation criteria: SAR ratio M2/M1 (%)	51.310896

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)	54.646	32.528	16.691	8.628	4.447	2.292	1.181	0.609	0.314	0.162	0.083	0.043



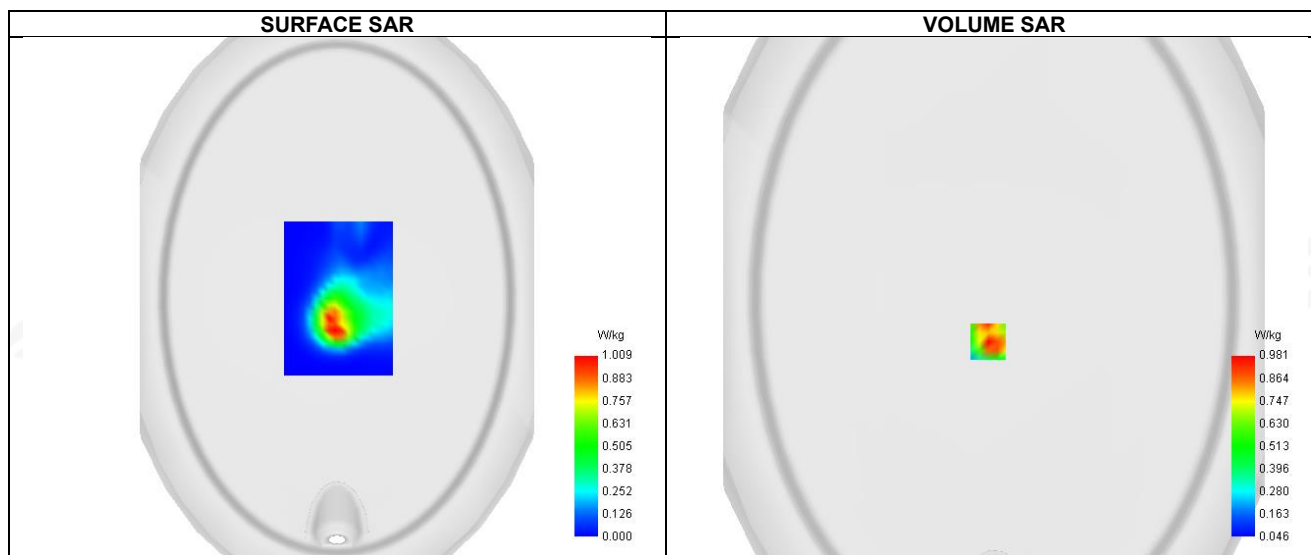
F. 3D Image



Appendix B. SAR Test Plots

Plot 1: DUT: MID; EUT Model: Smart_10

Test Date	2025-08-20
ConvF	1.44
Probe	SN 08/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	GPRS 850
Signal	Duty Cycle: 2.00 (Crest factor: 2.0)
Frequency (MHz)	848.8
Relative permittivity (real part)	40.52
Conductivity (S/m)	0.91



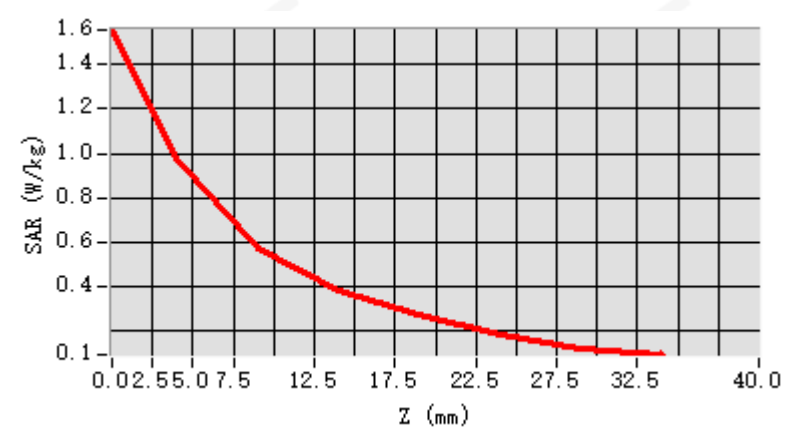
Maximum location: X=-5.00, Y=-39.00 ; SAR Peak: 1.58 W/kg

D. SAR 1g & 10g

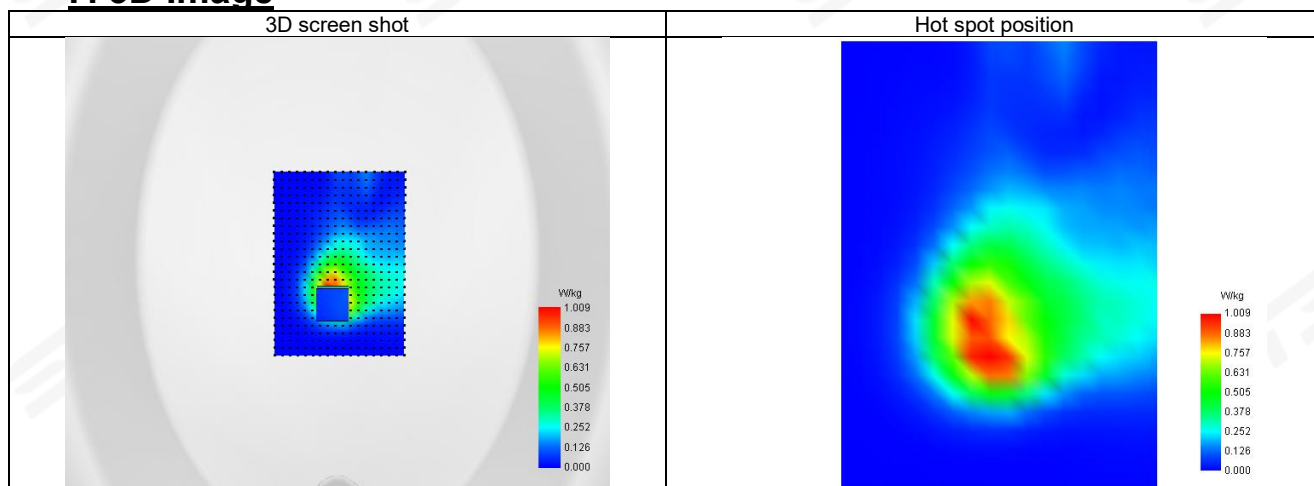
SAR 10g (W/Kg)	0.536
SAR 1g (W/Kg)	0.951
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	66.604928

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.556	0.981	0.574	0.381	0.269	0.178	0.118

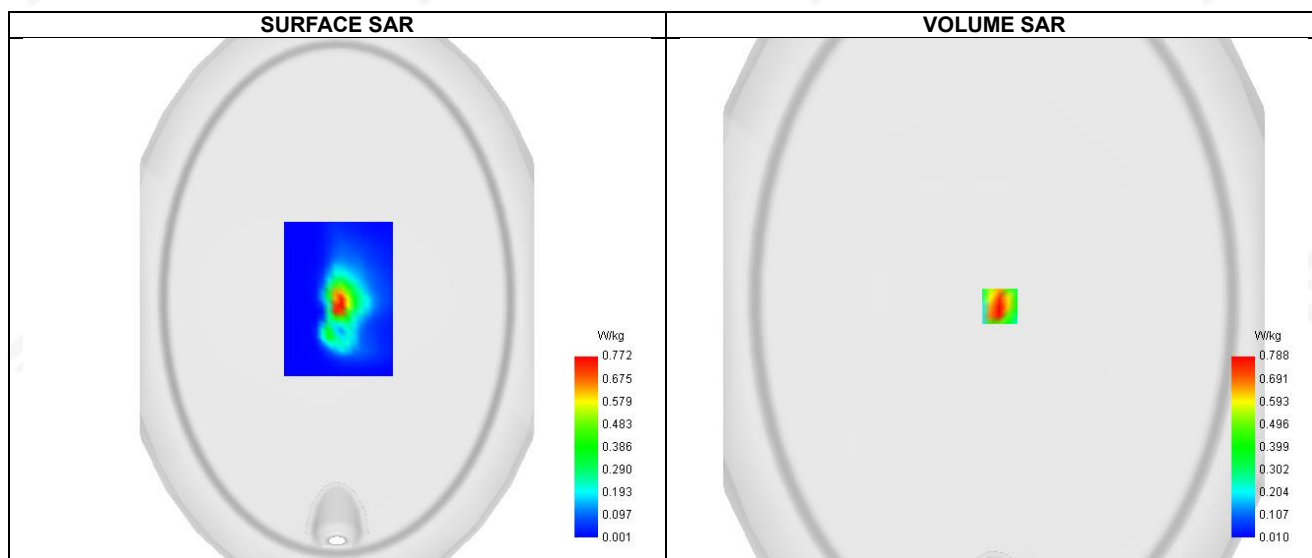


F. 3D Image



Plot 2: DUT: MID; EUT Model: Smart_10

Test Date	2025-08-21
ConvF	1.72
Probe	SN 08/21 EPG0352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	GPRS 1900
Signal	Duty Cycle: 2.00 (Crest factor: 2.0)
Frequency (MHz)	1909.8
Relative permittivity (real part)	41.05
Conductivity (S/m)	1.38

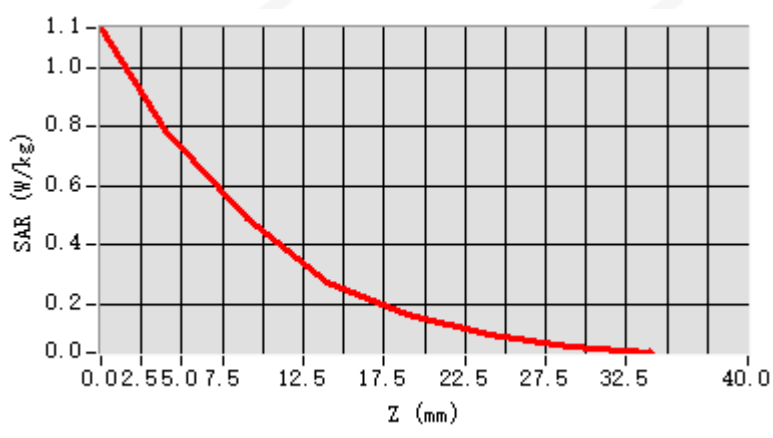


D. SAR 1g & 10g

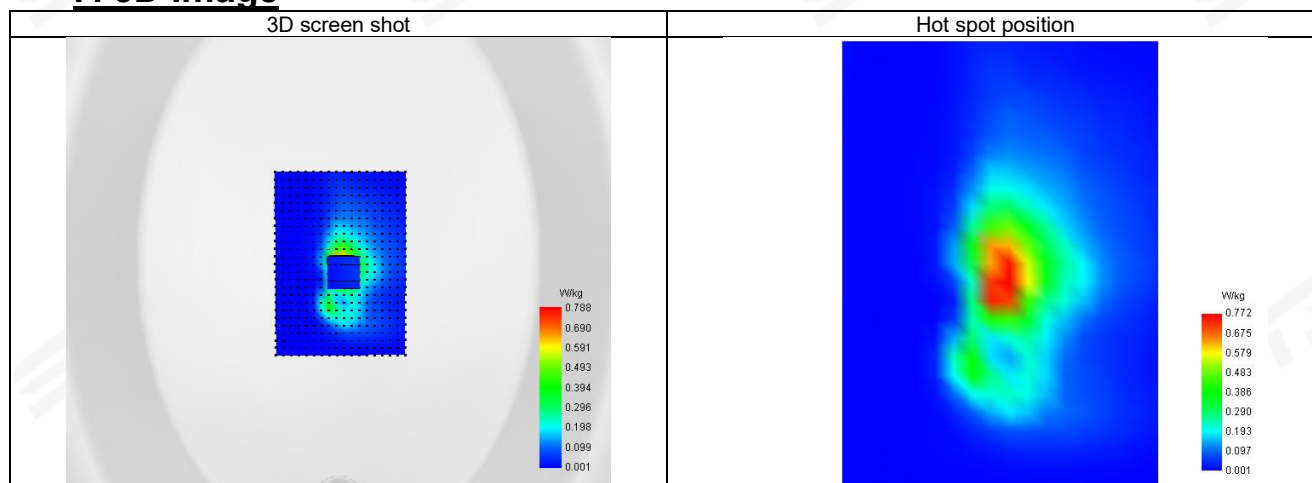
SAR 10g (W/Kg)	0.393
SAR 1g (W/Kg)	0.772
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	61.924865

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.135	0.788	0.488	0.272	0.169	0.101	0.060

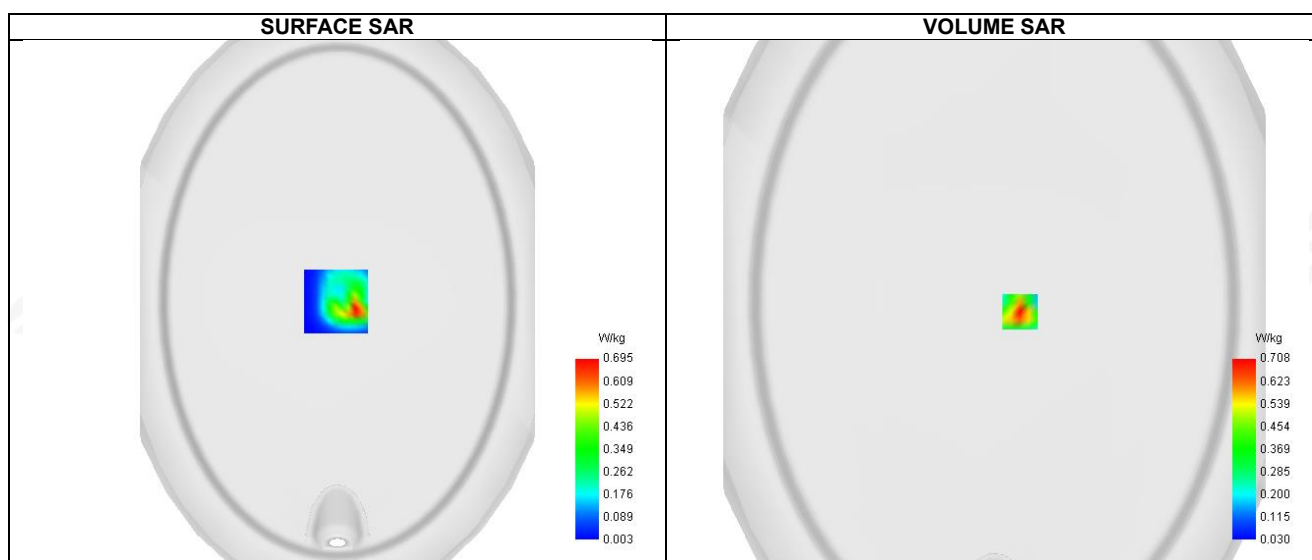


F. 3D Image



Plot 3: DUT: MID; EUT Model: Smart_10

Test Date	2025-08-21
ConvF	1.72
Probe	SN 08/21 EPG0352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	WCDMA II
Signal	WCDMA (Crest factor: 1.0)
Frequency (MHz)	1852.4
Relative permittivity (real part)	41.06
Conductivity (S/m)	1.40



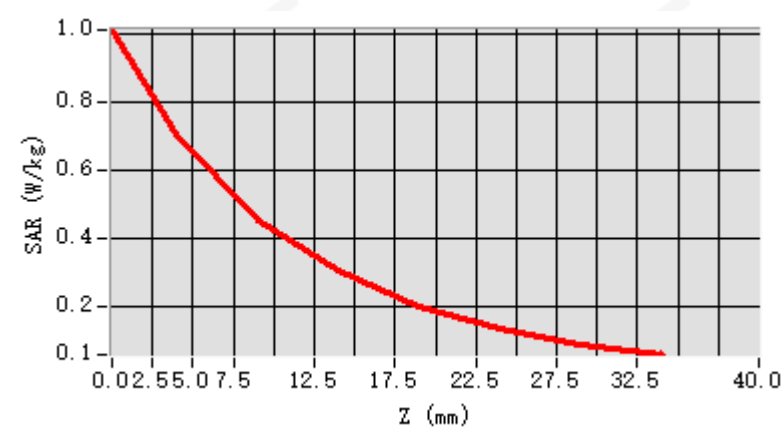
Maximum location: X=23.00, Y=-9.00 ; SAR Peak: 1.04 W/kg

D. SAR 1g & 10g

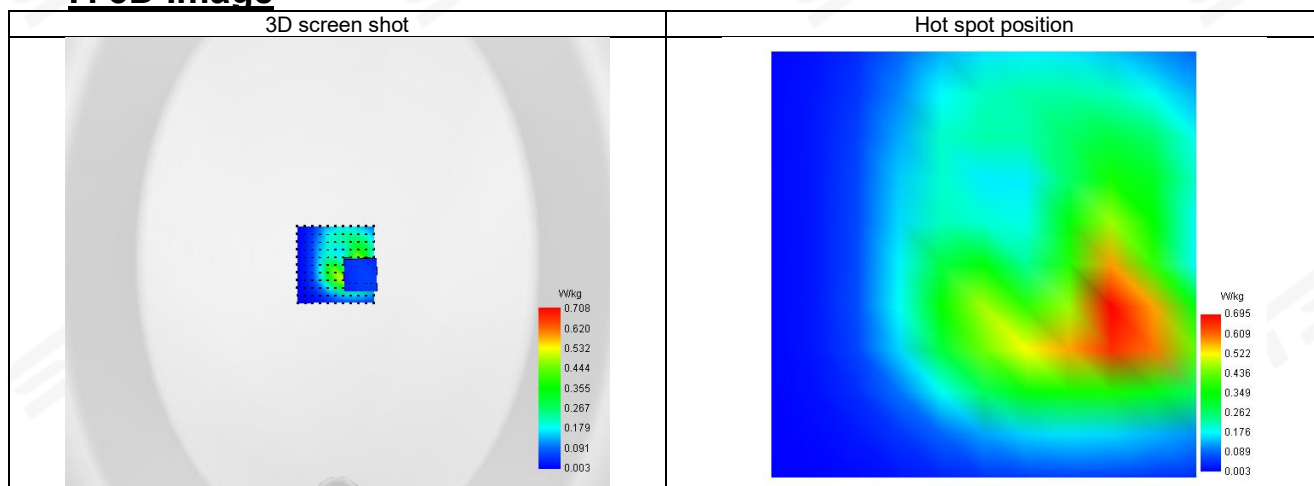
SAR 10g (W/Kg)	0.374
SAR 1g (W/Kg)	0.735
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	64.337672

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.012	0.708	0.456	0.308	0.205	0.136	0.090

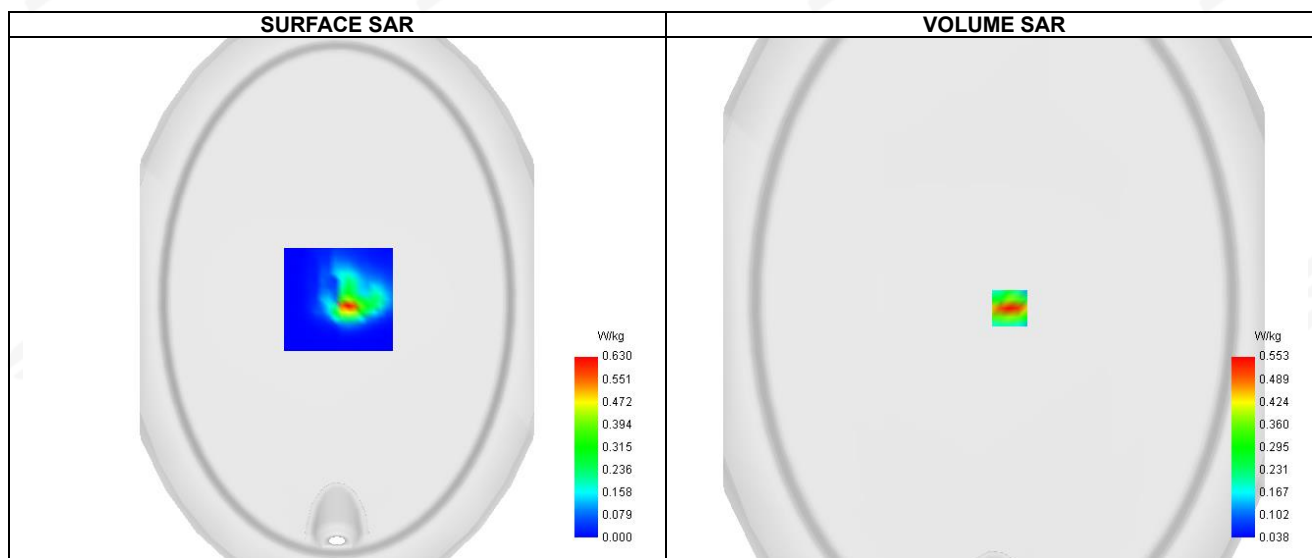


F. 3D Image



Plot 4: DUT: MID; EUT Model: Smart_10

Test Date	2025-08-20
ConvF	1.44
Probe	SN 08/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	WCDMA V
Signal	WCDMA (Crest factor: 1.0)
Frequency (MHz)	846.6
Relative permittivity (real part)	40.82
Conductivity (S/m)	0.92

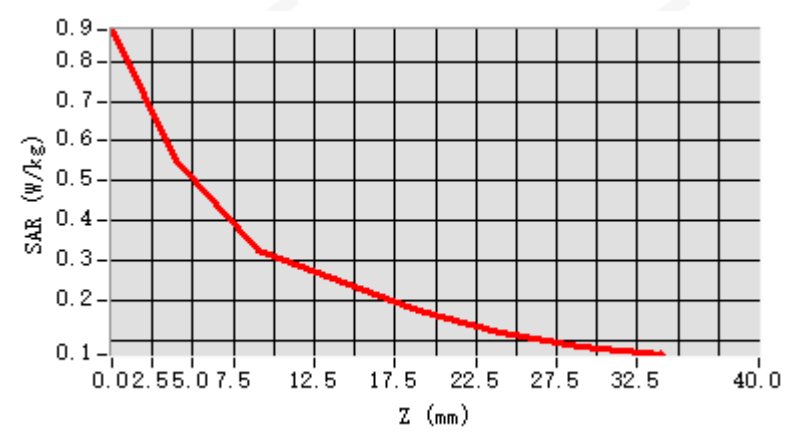


D. SAR 1g & 10g

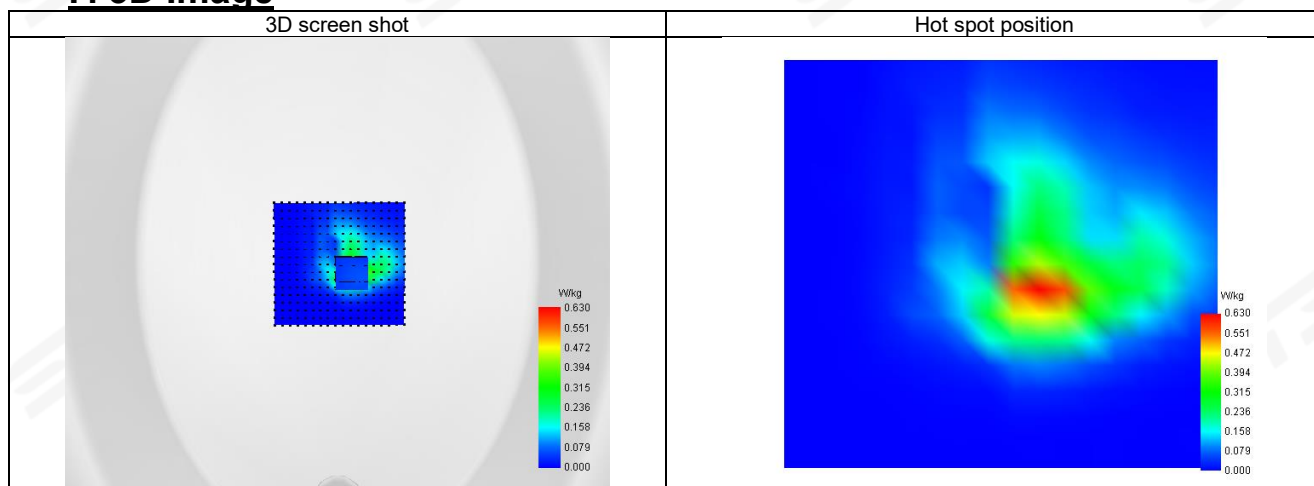
SAR 10g (W/Kg)	0.288
SAR 1g (W/Kg)	0.520
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	59.071725

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.879	0.553	0.326	0.252	0.175	0.121	0.084

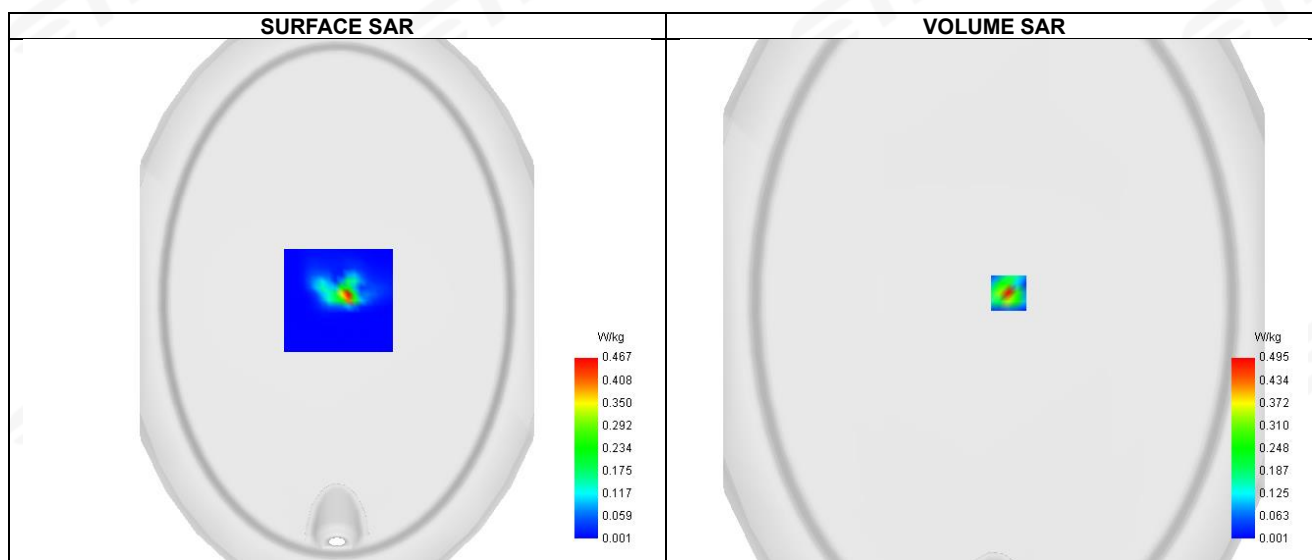


F. 3D Image



**Plot 5: DUT: MID; EUT Model: Smart_10**

Test Date	2025-08-22
ConvF	1.8
Probe	SN 08/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	IEEE 802.11b ISM
Signal	IEEE802.b (Crest factor: 1.0)
Frequency (MHz)	2437
Relative permittivity (real part)	39.6
Conductivity (S/m)	1.76



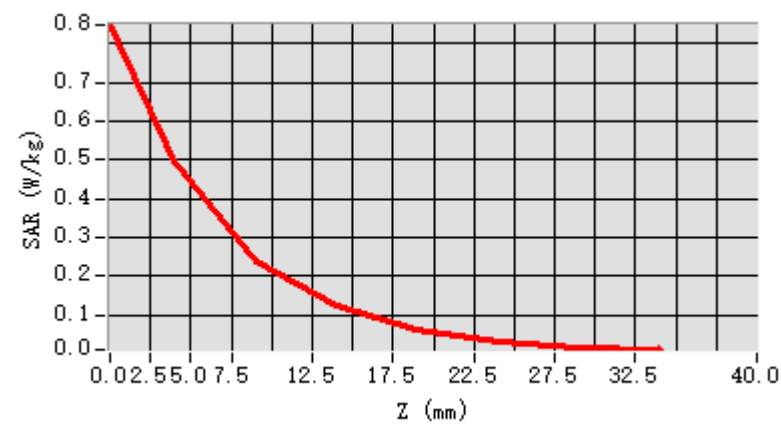
Maximum location: X=13.00, Y=7.00 ; SAR Peak: 0.85 W/kg

D. SAR 1g & 10g

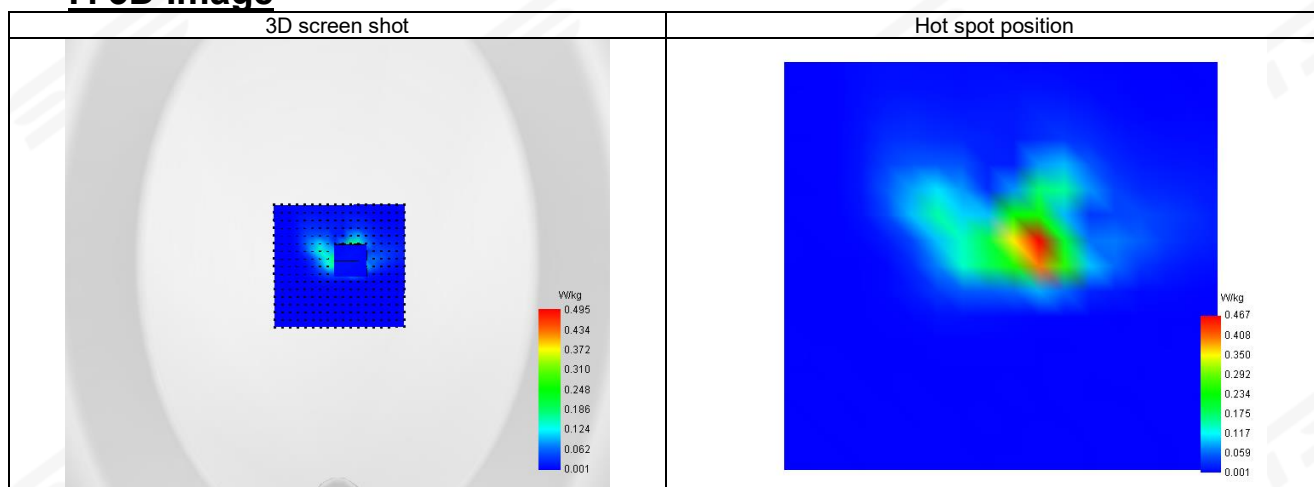
SAR 10g (W/Kg)	0.173
SAR 1g (W/Kg)	0.429
Horizontal validation criteria: minimum distance (mm)	11.313708
Vertical validation criteria: SAR ratio M2/M1 (%)	48.305482

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.848	0.495	0.239	0.125	0.063	0.032	0.016



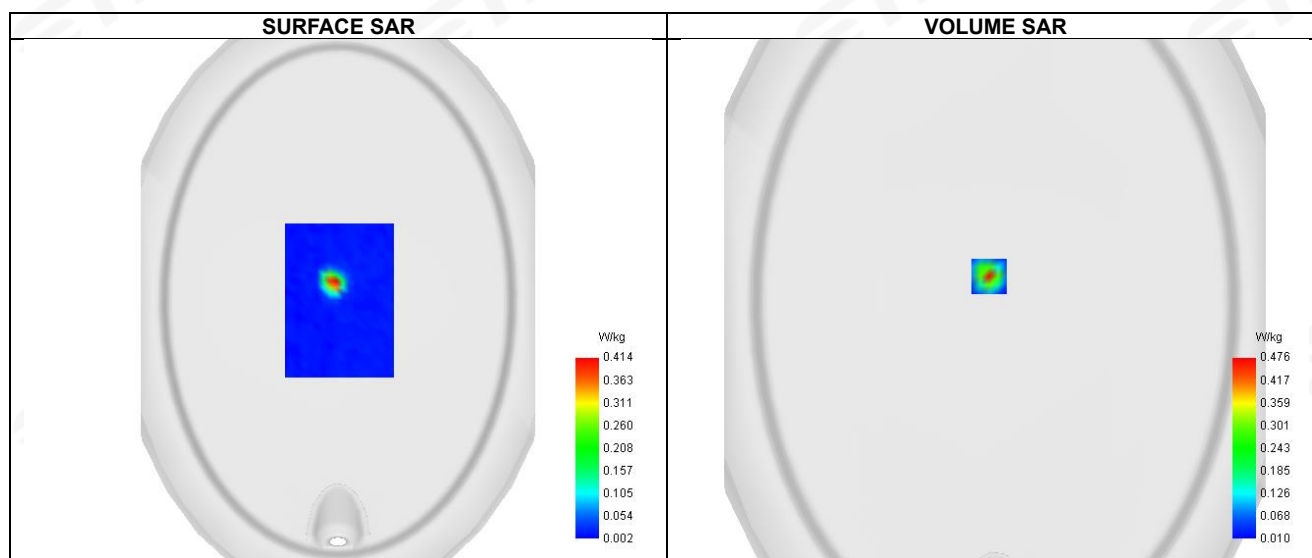
F. 3D Image





Plot 6: DUT: MID; EUT Model: Smart_10

Test Date	2025-08-22
ConvF	1.80
Probe	SN 08/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	IEEE 802.11b ISM
Signal	802.11 n-HT40 (Crest factor: 1.0)
Frequency (MHz)	2437
Relative permittivity (real part)	39.60
Conductivity (S/m)	1.76



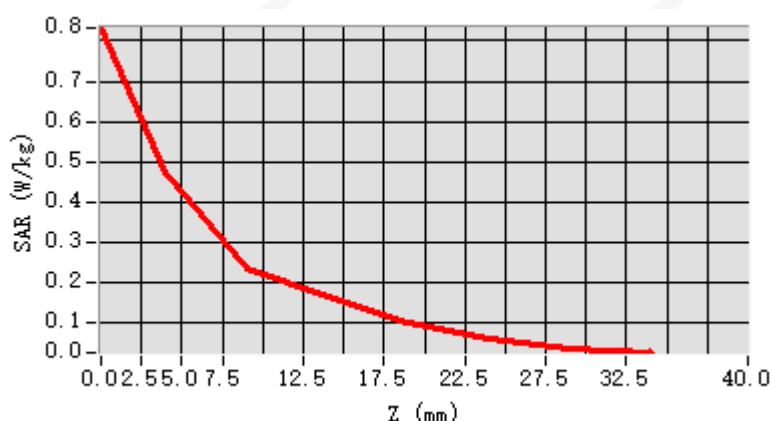
Maximum location: X=-5.00, Y=22.00 ; SAR Peak: 0.81 W/kg

D. SAR 1g & 10g

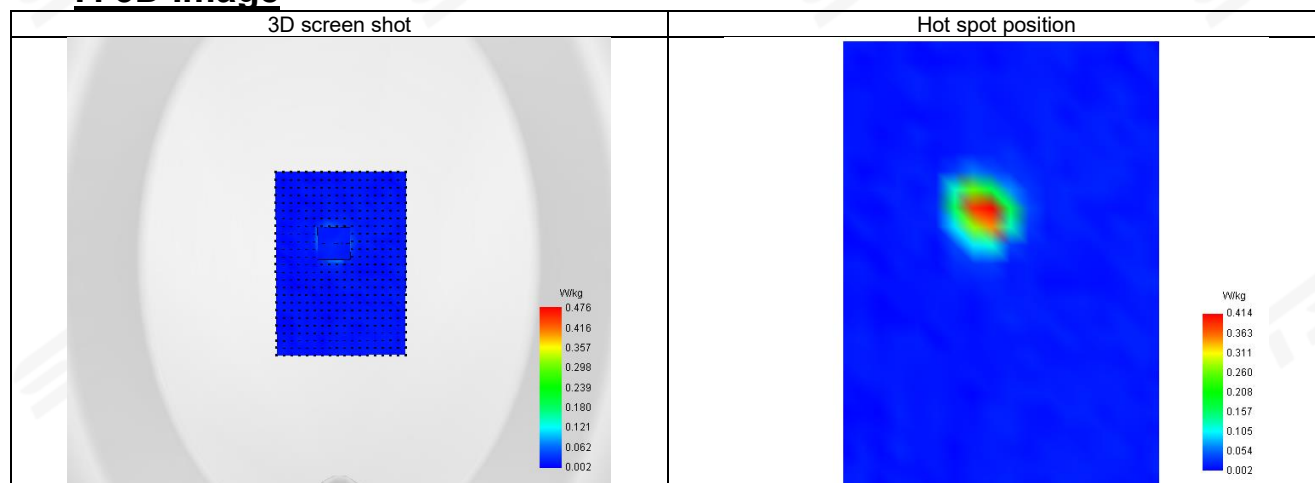
SAR 10g (W/Kg)	0.178
SAR 1g (W/Kg)	0.405
Horizontal validation criteria: minimum distance (mm)	11.313708
Vertical validation criteria: SAR ratio M2/M1 (%)	49.465471

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.832	0.476	0.235	0.165	0.100	0.060	0.037

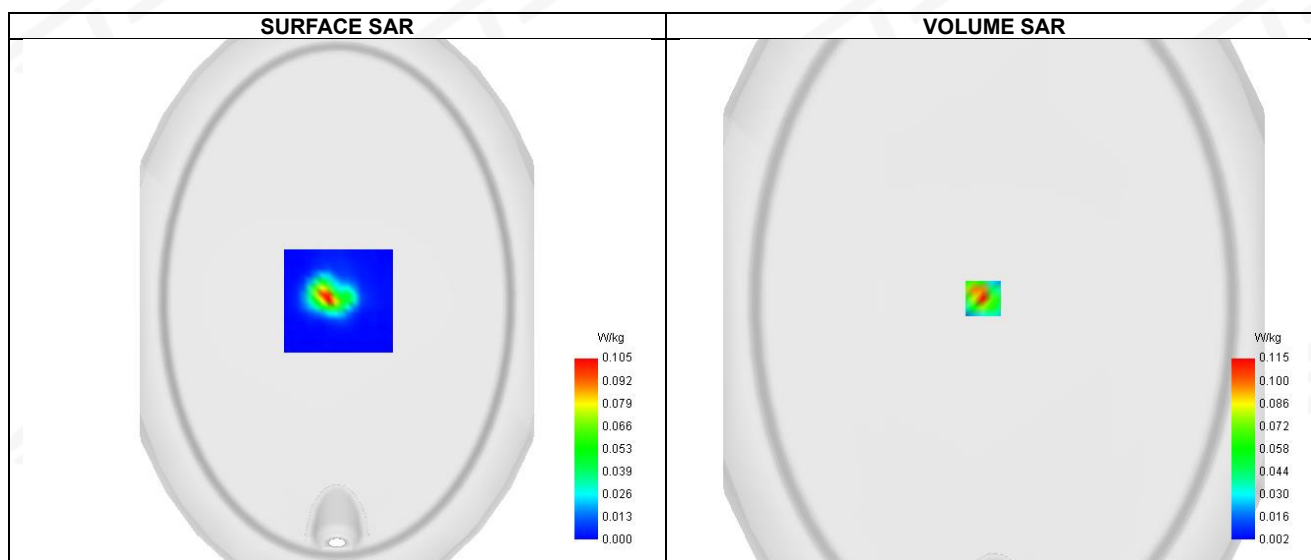


F. 3D Image



**Plot 7: DUT: MID; EUT Model: Smart_10**

Test Date	2025-08-22
ConvF	1.8
Probe	SN 08/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	BT
Signal	GFSK (Crest factor: 1.0)
Frequency (MHz)	2402
Relative permittivity (real part)	39.43
Conductivity (S/m)	1.76



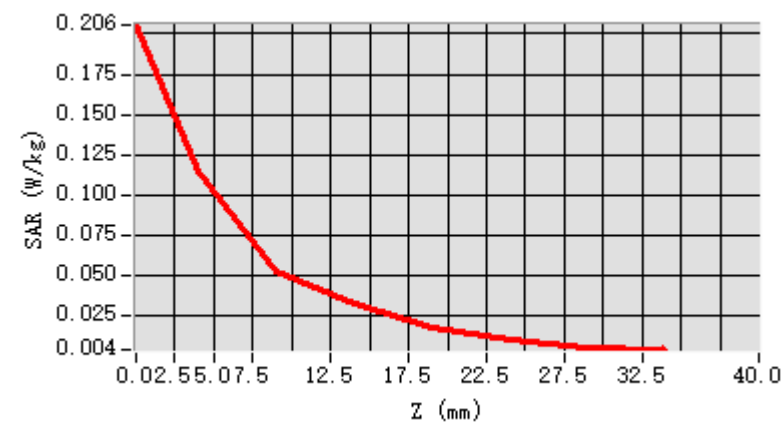
Maximum location: X=-10.00, Y=2.00 ; SAR Peak: 0.21 W/kg

D. SAR 1g & 10g

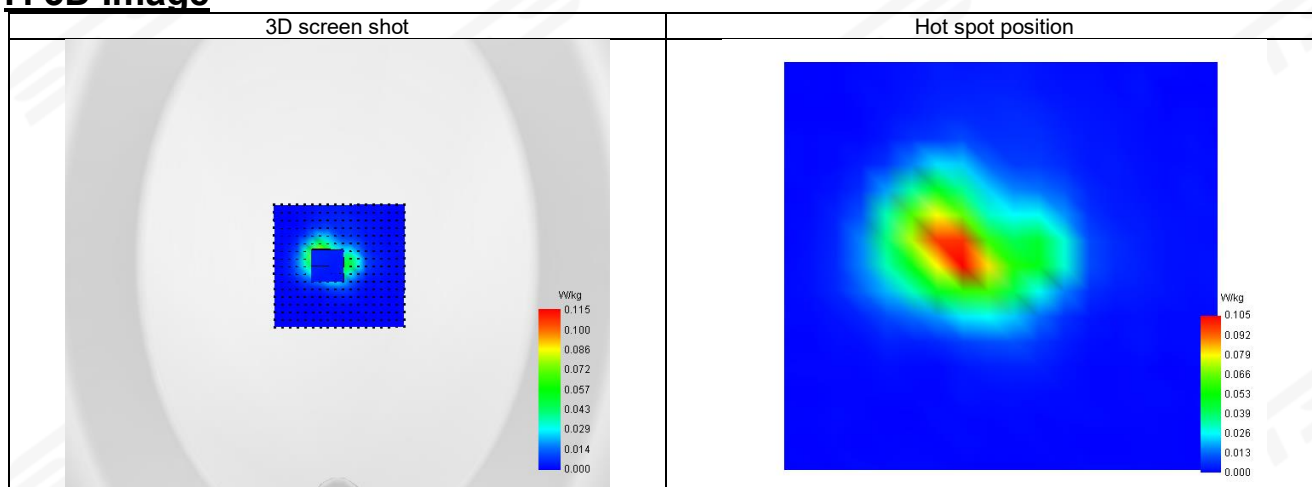
SAR 10g (W/Kg)	0.049
SAR 1g (W/Kg)	0.107
Horizontal validation criteria: minimum distance (mm)	11.313708
Vertical validation criteria: SAR ratio M2/M1 (%)	48.747158

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.206	0.115	0.053	0.033	0.018	0.010	0.006

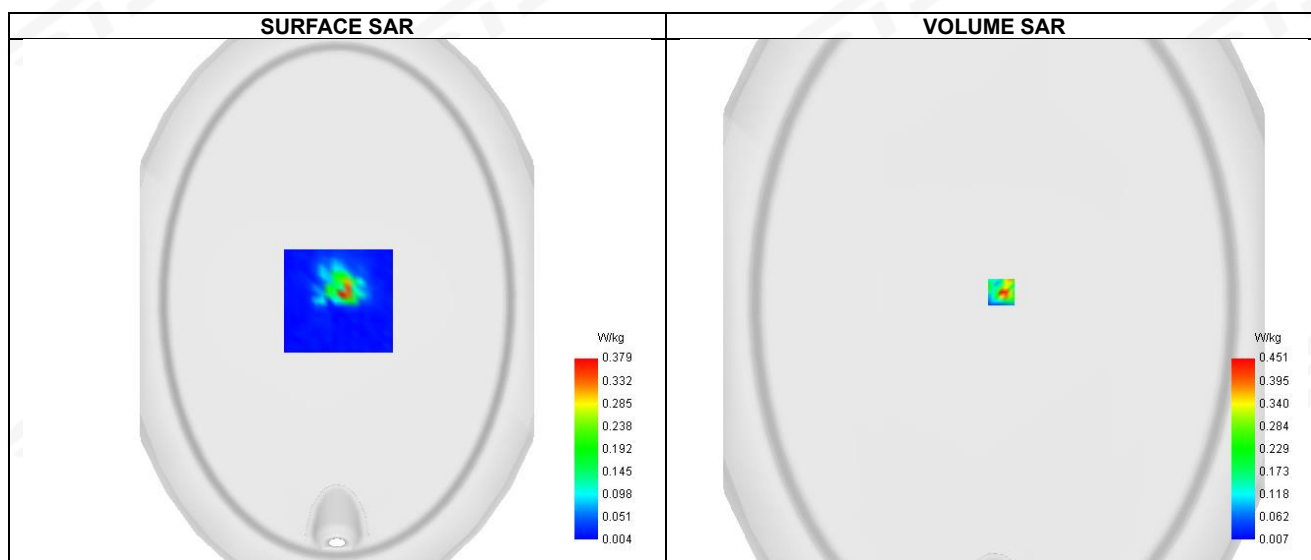


F. 3D Image



**Plot 8: DUT: MID; EUT Model: Smart_10**

Test Date	2025-08-22
ConvF	1.35
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	IEEE 802.11ac-VHT20
Signal	802.11 ac-VHT20 (Crest factor: 1.0)
Frequency (MHz)	5745
Relative permittivity (real part)	36.43
Conductivity (S/m)	5.14



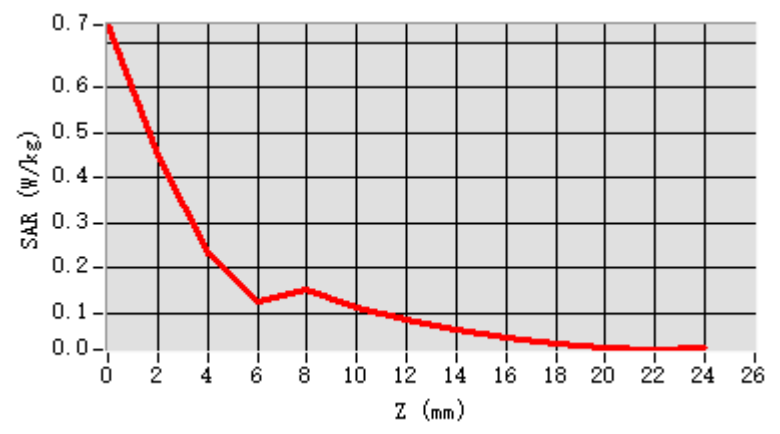
Maximum location: X=7.00, Y=8.00 ; SAR Peak: 0.96 W/kg

D. SAR 1g & 10g

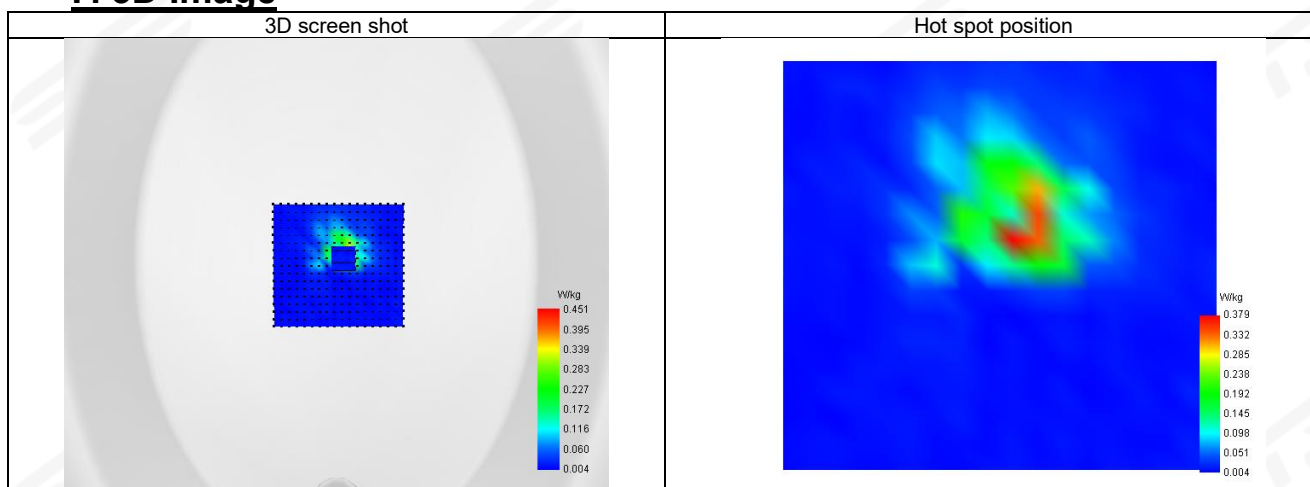
SAR 10g (W/Kg)	0.099
SAR 1g (W/Kg)	0.285
Horizontal validation criteria: minimum distance (mm)	5.656854
Vertical validation criteria: SAR ratio M2/M1 (%)	51.961800

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)	0.740	0.451	0.234	0.127	0.153	0.114	0.085	0.063	0.047	0.035	0.026	0.019



F. 3D Image





Appendix C. Probe Calibration and Dipole Calibration Report

Refer the appendix Calibration Report.

※※※※END OF THE REPORT※※※※