



SAR Test Report

Report No.:STS2605361H01

Issued for

Acer India PVT Limited

Acer India PVT Limited, 6th Floor, Embassy Heights, No.13,
Magrath Road, Bangalore, 560025, India

Product Name: Tablet

Brand Name:



Model Name: Acer One 8 T4-82L-G2

Series Model(s): N/A

FCC ID: 2A94K-T4-82L-G2

Test Standard: IEEE Std C95.1™-2019
FCC 47 CFR Part 2§2.1093
IEEE Std. 1528:2013

Max. Report
SAR (1g)

Body: 1.208 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** : Acer India PVT LimitedAddress : Acer India PVT Limited, 6th Floor, Embassy Heights, No.13,
Magrath Road, Bangalore, 560025, India**Manufacturer's Name** : Acer India Private LimitedAddress : R.S No. 38/2, Sedarapet Village, Sedarapet, Villianur Commune,
Puducherry -605111**Product description**

Product name : Tablet

Brand name :



Model name : Acer One 8 T4-82L-G2

Series Model..... : N/A

ANSI/IEEE Std. C95.1

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

IEEE Std. 1528-2013

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

Date of Test..... :

Date (s) of performance of tests..... : 28 May. 2026 ~ 29 May. 2026

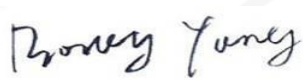
Date of Issue..... : 05 Jun. 2026

Test Result..... : **Pass**Testing Engineer : 

(Xin.Liu)

Technical Manager : 

(Eric Zhou)

Authorized Signatory : 

(Bovey Yang)





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**Revision History**

Rev.	Issue Date	Report No.	Effect Page	Contents
00	05 Jun. 2026	STS2605361H01	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	Tablet
Brand Name	
Model Name	Acer One 8 T4-82L-G2
Series Model	N/A
Model Difference	N/A
Sample number	260522018-1
Battery	Rated Voltage:3.8V
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 IV:1710 MHz ~ 1755 MHz WCDMA Band V: 824 MHz ~ 849 MHz LTE Band 5: 824 MHz ~ 849 MHz LTE Band 41: 2496 MHz ~ 2690 MHz WLAN802.11b/g/n20: 2412 MHz ~ 2462 MHz WLAN 802.11n40: 2422 MHz ~ 2452 MHz WLAN 802.11a/n20/n40/ac20/ac40/ac80: 5150 ~ 5250 MHz WLAN 802.11a/n20/n40/ac20/ac40/ac80: 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	0.342
	PCB	GSM 1900	1.164
	PCB	WCDMA Band II	1.208
	PCB	WCDMA Band IV	0.942
	PCB	WCDMA Band V	0.353
	PCB	LTE Band 5	0.275
	PCB	LTE Band 41	0.234
	DTS	2.4G WLAN	0.184
	DSS	BT	0.100
	NII	5.2G WLAN	0.225
	NII	5.8G WLAN	0.280
1-g Sum SAR			1.488
FCC Equipment Class	Licensed Transmitter (PCB) Part 15 Spread Spectrum Transmitter (DSS) Digital Transmission System (DTS) Unlicensed National Information Infrastructure TX(NII)		
Operating Mode:	GSM: GSM Voice; GPRS/EGPRS Class 12 WCDMA: RMC, HSDPA, HSUPA Release 6 LTE: QPSK, 16QAM 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 + π /4DQPSK+8DPSK BLE: GFSK		
Antenna Specification:	GSM/WCDMA/LTE: Internal Antenna Bluetooth: Internal Antenna WLAN: Internal Antenna		
SIM Card	Support dual-SIM, dual standby, the multiple SIM card with two lines cannot transmitting at the same time		
Hotspot Mode	Not Support		
DTM Mode	Not Support		
Note: 1. The dual SIM card mobile has 2 SIM slots and supports dual SIM dual standby. The WWAN radio transmission will be enabled by either one SIM at a time (Single active) 2. After pre-scan two SIM cards power, we found test result of the SIM1 was the worse, so we chose SIM1 card to perform all tests. 3. 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 D01 v06	RF Exposure Procedures and Equipment Authorization Policies for Mobile and Portable Devices
5	FCC KDB 865664 D01 v01r04	SAR Measurement 100 MHz to 6 GHz
6	FCC KDB 865664 D02 v01r02	RF Exposure Reporting
7	FCC KDB 941225 D01 v03r01	SAR Measurement Procedures for 3G Devices
8	FCC KDB 941225 D05 v02r05	SAR for LTE Devices
9	FCC KDB 616217 D04 v01r02	SAR for laptop and tablets
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:

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

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

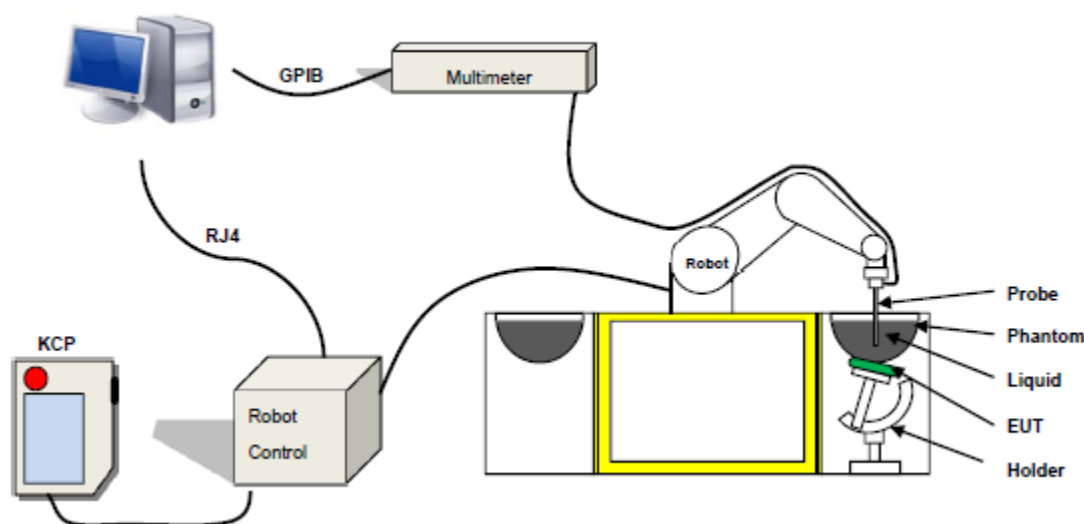
$$SAR = \frac{\sigma E^2}{\rho}$$

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.

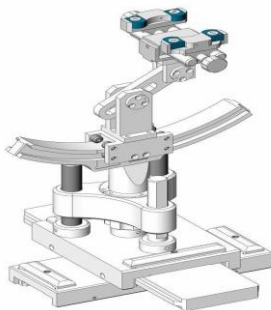
SN 32/14 SAM115



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.

The head tissue dielectric parameters recommended by the IEEE 62209-1528 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**

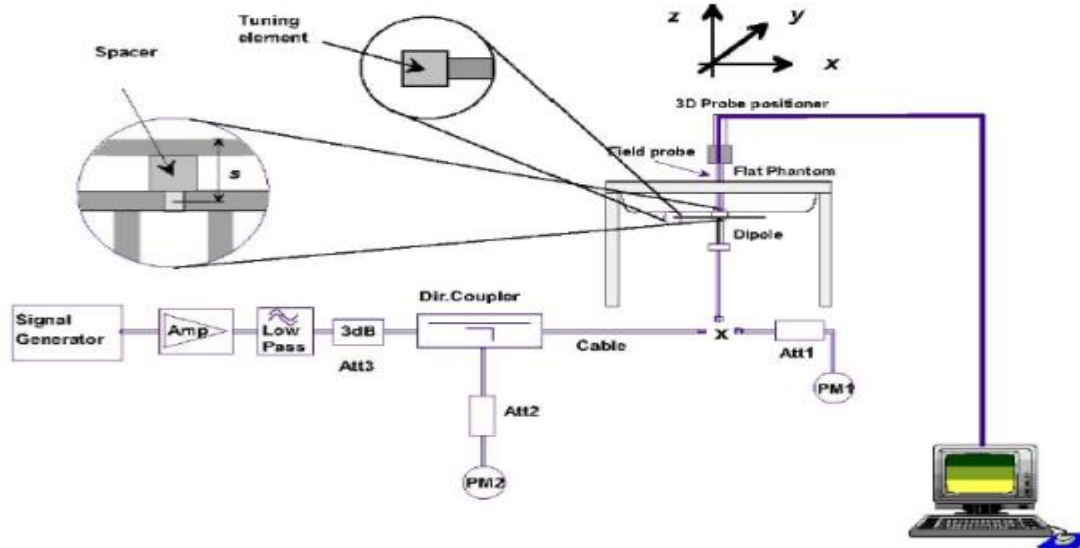
Date	Ambient		Simulating Liquid		Parameters	Target	Measured	Deviation %	Limited %
	Temp. [°C]	Humidity %	Frequency (MHz)	Temp. [°C]					
2026-05-28	23.4	50	826.4	23.1	Permittivity	41.54	41.76	0.53	±5
					Conductivity	0.90	0.89	-1.00	±5
2026-05-28	23.4	50	829	23.1	Permittivity	41.53	42.04	1.23	±5
					Conductivity	0.90	0.91	1.19	±5
2026-05-28	23.4	50	835	23.1	Permittivity	41.50	42.10	1.45	±5
					Conductivity	0.90	0.90	0.00	±5
2026-05-28	23.4	50	836.6	23.1	Permittivity	41.49	41.84	0.84	±5
					Conductivity	0.90	0.90	-0.02	±5
2026-05-28	23.4	50	1712.6	23.1	Permittivity	40.12	41.07	2.36	±5
					Conductivity	1.35	1.34	-0.74	±5
2026-05-28	23.4	50	1740	23.1	Permittivity	40.09	40.36	0.68	±5
					Conductivity	1.37	1.36	-0.42	±5
2026-05-28	23.4	50	1752.4	23.1	Permittivity	40.07	40.78	1.78	±5
					Conductivity	1.37	1.36	-0.93	±5
2026-05-28	23.4	50	1800	23.1	Permittivity	40.00	40.25	0.63	±5
					Conductivity	1.40	1.41	0.71	±5
2026-05-28	23.4	50	1850.2	23.1	Permittivity	40.00	40.25	0.63	±5
					Conductivity	1.40	1.41	0.71	±5
2026-05-28	23.4	50	1852.4	23.1	Permittivity	40.00	40.45	1.13	±5
					Conductivity	1.40	1.40	0.00	±5
2026-05-28	23.4	50	1880	23.1	Permittivity	40.00	40.44	1.10	±5
					Conductivity	1.40	1.42	1.43	±5
2026-05-28	23.4	50	1900	23.1	Permittivity	40.00	39.81	-0.47	±5
					Conductivity	1.40	1.41	0.71	±5
2026-05-28	23.4	50	1907.6	23.1	Permittivity	40.00	40.07	0.18	±5
					Conductivity	1.40	1.40	0.00	±5
2026-05-28	23.4	50	1909.8	23.1	Permittivity	40.00	40.97	2.43	±5
					Conductivity	1.40	1.42	1.43	±5
2026-05-29	23.6	59	2450	23.3	Permittivity	39.20	39.88	1.73	±5
					Conductivity	1.80	1.79	-0.56	±5
2026-05-29	23.6	59	2462	23.3	Permittivity	39.18	39.80	1.59	±5
					Conductivity	1.81	1.79	-1.14	±5
2026-05-29	23.6	59	2600	23.3	Permittivity	39.00	38.39	-1.56	±5
					Conductivity	1.96	1.96	0.00	±5
2026-05-29	23.6	59	2645	23.3	Permittivity	38.94	38.51	-1.10	±5
					Conductivity	2.01	2.00	-0.40	±5
2026-05-29	23.6	59	5200	23.3	Permittivity	36.00	36.78	2.17	±5
					Conductivity	4.66	4.64	-0.43	±5
2026-05-29	23.6	59	5240	23.3	Permittivity	35.96	37.01	2.92	±5
					Conductivity	4.70	4.71	0.17	±5
2026-05-29	23.6	59	5800	23.3	Permittivity	35.30	35.49	0.54	±5
					Conductivity	5.27	5.28	0.19	±5
2026-05-29	23.6	59	5825	23.3	Permittivity	35.28	35.87	1.69	±5
					Conductivity	5.30	5.32	0.45	±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**

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	
2026-05-28	835	100 mW	1.030	0.651	-	9.63	6.15	6.96%	5.85%	10
		Normalize to 1 Watt	10.30	6.51	3.52					
2026-05-28	1800	100 mW	3.814	2.000	-	37.95	20.49	0.50%	2.39%	10
		Normalize to 1 Watt	38.14	20.00	2.21					
2026-05-28	1900	100 mW	3.955	2.037	-	39.84	20.20	0.73%	0.84%	10
		Normalize to 1 Watt	39.55	20.37	3.28					
2026-05-29	2450	100 mW	5.504	2.382	-	54.70	24.11	0.62%	1.20%	10
		Normalize to 1 Watt	55.04	23.82	0.55					
2026-05-29	2600	100 mW	5.642	2.424	-	56.19	24.08	0.41%	0.66%	10
		Normalize to 1 Watt	56.42	24.24	0.03					
2026-05-29	5200	10 mW	1.576	0.541	-	163.88	57.29	3.83%	5.57%	10
		Normalize to 1 Watt	157.60	54.10	2.82					
2026-05-29	5800	10 mW	1.874	0.653	-	188.95	63.45	0.82%	2.92%	10
		Normalize to 1 Watt	187.40	65.30	0.97					

Note:

- (1) We use a CW signal of 20dBm(835/1800/1900/2450/2600MHz) and 10dBm(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

Step 1: Power Reference Measurement

The Power Reference Measurement and Power Drift Measurement are for monitoring the power drift of the device under test in the batch process. The minimum distance of probe sensors to surface is 2.7mm. This distance cannot be smaller than the distance of sensor calibration points to probe tip as defined in the probe properties.

Step 2: Area Scan

The Area Scan is used as a fast scan in two dimensions to find the area of high field values, before doing a fine measurement around the hot spot. The sophisticated interpolation routines implemented in SATIMO software can find the maximum locations even in relatively coarse grids. When an Area Scan has measured all reachable points, it computes the field maximal found in the scanned area, within a range of the global maximum. The range (in db) is specified in the standards for compliance testing. For example, a 2db range is required in IEEE Standard 1528 standards, whereby 3db is a requirement when compliance is assessed in accordance with the ARIB standard (Japan). If one Zoom Scan follows the Area Scan, then only the absolute maximum will be taken as reference. For cases where multiple maximums are detected, the number of Zoom Scans has to be increased accordingly.

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

	$\leq 3 \text{ GHz}$	$> 3 \text{ GHz}$
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface	$5 \pm 1 \text{ mm}$	$\frac{1}{2} \cdot 8 \cdot \ln(2) \pm 0.5 \text{ mm}$
Maximum probe angle from probe axis to phantom surface normal at the measurement location	$30^\circ \pm 1^\circ$	$20^\circ \pm 1^\circ$
Maximum area scan spatial resolution: $\Delta x_{\text{Area}}, \Delta y_{\text{Area}}$	$\leq 2 \text{ GHz: } \leq 15 \text{ mm}$ $2 - 3 \text{ GHz: } \leq 12 \text{ mm}$	$3 - 4 \text{ GHz: } \leq 12 \text{ mm}$ $4 - 6 \text{ GHz: } \leq 10 \text{ mm}$
	When the x or y dimension of the test device, in the measurement plane orientation, is smaller than the above, the measurement resolution must be $\leq$ the corresponding x or y dimension of the test device with at least one measurement point on the test device.	

Step 3: Zoom Scan

Zoom Scans are used to assess the peak spatial SAR value within a cubic average volume containing 1g and 10g of simulated tissue. The Zoom Scan measures points (refer to table below) within a cube whose base faces are centered on the maxima found in a preceding area scan job within the same procedure. When the measurement is done, the Zoom Scan evaluates the averaged SAR for 1g and 10g and displays these values next to the job's label.



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

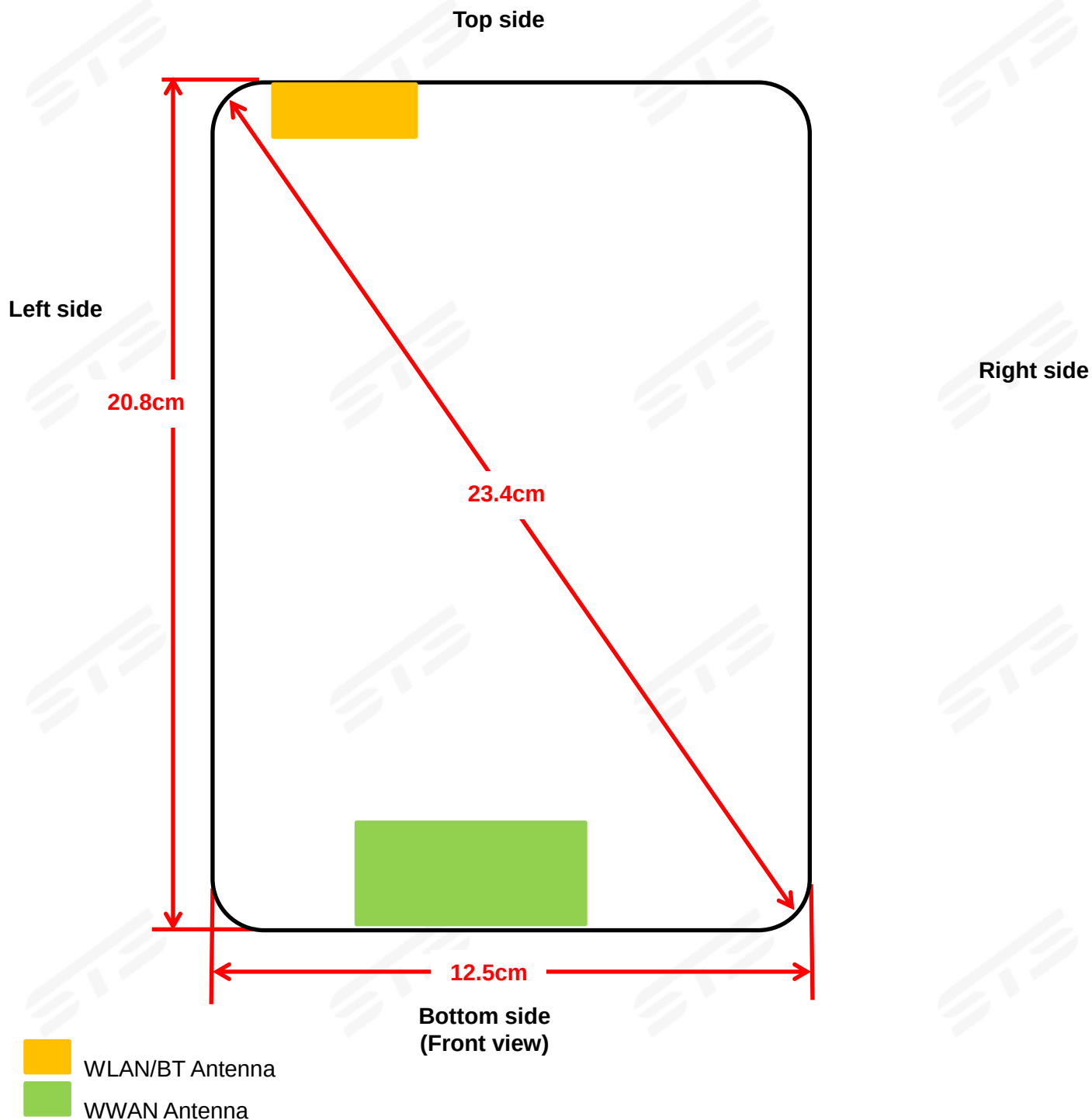
Maximum zoom scan spatial resolution: $\Delta x_{\text{Zoom}}, \Delta y_{\text{Zoom}}$			$\leq 2 \text{ GHz}: \leq 8 \text{ mm}$ $2 - 3 \text{ GHz}: \leq 5 \text{ mm}^*$	$3 - 4 \text{ GHz}: \leq 5 \text{ mm}^*$ $4 - 6 \text{ GHz}: \leq 4 \text{ mm}^*$
Maximum zoom scan spatial resolution, normal to phantom surface	uniform grid: $\Delta z_{\text{Zoom}}(n)$		$\leq 5 \text{ mm}$	$3 - 4 \text{ GHz}: \leq 4 \text{ mm}$ $4 - 5 \text{ GHz}: \leq 3 \text{ mm}$ $5 - 6 \text{ GHz}: \leq 2 \text{ mm}$
	graded grid	$\Delta z_{\text{Zoom}}(1)$: between 1 st two points closest to phantom surface	$\leq 4 \text{ mm}$	$3 - 4 \text{ GHz}: \leq 3 \text{ mm}$ $4 - 5 \text{ GHz}: \leq 2.5 \text{ mm}$ $5 - 6 \text{ GHz}: \leq 2 \text{ mm}$
		$\Delta z_{\text{Zoom}}(n>1)$: between subsequent points	$\leq 1.5 \cdot \Delta z_{\text{Zoom}}(n-1)$	
Minimum zoom scan volume	x, y, z		$\geq 30 \text{ mm}$	$3 - 4 \text{ GHz}: \geq 28 \text{ mm}$ $4 - 5 \text{ GHz}: \geq 25 \text{ mm}$ $5 - 6 \text{ GHz}: \geq 22 \text{ mm}$
Note: δ is the penetration depth of a plane-wave at normal incidence to the tissue medium; see draft standard IEEE P1528-2011 for details.				
* When zoom scan is required and the <u>reported</u> SAR from the <i>area scan based 1-g SAR estimation</i> procedures of KDB 447498 is $\leq 1.4 \text{ W/kg}$, $\leq 8 \text{ mm}$, $\leq 7 \text{ mm}$ and $\leq 5 \text{ mm}$ zoom scan resolution may be applied, respectively, for 2 GHz to 3 GHz, 3 GHz to 4 GHz and 4 GHz to 6 GHz.				

Step 4: Power Drift Measurement

The Power Drift Measurement measures the field at the same location as the most recent power reference measurement within the same procedure, and with the same settings. The Power Drift Measurement gives the field difference in dB from the reading conducted within the same settings. This allows a user to monitor the power drift of the device under test within a batch process. The measurement procedure is the same as Step 1.

7. EUT Antenna Location Sketch

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



Antenna Separation Distance(cm)					
ANT	Back Side	Left Side	Right Side	Top Side	Bottom Side
WLAN/BT	0.5	1.5	8.3	0.5	19.8
WWAN-Main	0.5	4.6	1.4	17.8	0.5

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.

Exposure Position	Wireless Interface	GSM850	PCS1900	WCDMA II	WCDMA IV	WCDMA V
	Calculated Frequency(GHz)	0.8366	1.9098	1.8524	1.7126	0.8264
	Maximum Turn-up power (dBm)	34	31	24	24.5	24.5
	Maximum rated power(mW)	2511.89	1258.93	251.19	281.84	281.84
Back Side	Separation distance (cm)	0.5	0.5	0.5	0.5	0.5
	exclusion threshold(mW)	9.22	3.35	3.43	3.37	6.55
	Testing required?	YES	YES	YES	YES	YES
Left Side	Separation distance (cm)	4.6	4.6	4.6	4.6	4.6
	exclusion threshold(mW)	213.22	202.37	204.35	219.83	264.40
	Testing required?	YES	YES	YES	YES	YES
Right Side	Separation distance (cm)	1.4	1.4	1.4	1.4	1.4
	exclusion threshold(mW)	39.60	22.46	22.86	23.43	36.43
	Testing required?	YES	YES	YES	YES	YES
Top Side	Separation distance (cm)	17.8	17.8	17.8	17.8	17.8
	exclusion threshold(mW)	1447.18	2467.12	2469.03	2805.69	2519.98
	Testing required?	YES	NO	NO	NO	NO
Bottom Side	Separation distance (cm)	0.5	0.5	0.5	0.5	0.5
	exclusion threshold(mW)	9.22	3.35	3.43	3.37	6.55
	Testing required?	YES	YES	YES	YES	YES



	Wireless Interface	LTE Band 5	LTE Band 41	BT	2.4G WLAN	5.2G WLAN	5.8G WLAN
Exposure Position	Calculated Frequency(GHz)	0.8255	2.6475	2.402	2.462	5.24	5.825
	Maximum Turn-up power (dBm)	24.5	24.5	4	13	12.5	11
	Maximum rated power(mW)	281.84	281.84	2.51	19.95	17.78	12.59
Back Side	Separation distance (cm)	0.5	0.5	0.5	0.5	0.5	0.5
	exclusion threshold(mW)	6.56	2.58	2.79	2.73	1.49	1.37
	Testing required?	YES	YES	NO	YES	YES	YES
Left Side	Separation distance (cm)	4.6	4.6	1.5	1.5	1.5	1.5
	exclusion threshold(mW)	264.49	182.34	22.43	22.12	14.46	13.63
	Testing required?	YES	YES	NO	NO	YES	NO
Right Side	Separation distance (cm)	1.4	1.4	8.3	8.3	8.3	8.3
	exclusion threshold(mW)	36.45	18.60	576.54	573.83	496.75	486.81
	Testing required?	YES	YES	NO	NO	NO	NO
Top Side	Separation distance (cm)	17.8	17.8	0.5	0.5	0.5	0.5
	exclusion threshold(mW)	2520.05	2446.82	2.79	2.73	1.49	1.37
	Testing required?	NO	NO	NO	YES	YES	YES
Bottom Side	Separation distance (cm)	0.5	0.5	19.8	19.8	19.8	19.8
	exclusion threshold(mW)	6.56	2.58	3002.19	3002.02	2997.08	2996.39
	Testing required?	YES	YES	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 D01 v06, 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 D01 v06 Section 4.3.1, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions is not required when the SAR test exclusion threshold is satisfied. For 100 MHz to 6 GHz and test separation distances ≤ 50 mm, the criterion is given by:

[(Max. power of channel, including tune-up tolerance, mW) / (Min. test separation distance, mm)]
 $\times \sqrt{f(\text{GHz})} \leq 3.0$ for 1-g head/body SAR, and ≤ 7.5 for 10-g extremity SAR.

$$\frac{\text{Max. Tune-up Power (mW)}}{\text{Min. Test Separation Distance (mm)}} \times \sqrt{f(\text{GHz})} \leq 3.0$$

The applicable frequency range is 0.3 GHz to 6 GHz, and the applicable separation distance range is 0.5 cm to 40 cm. Where the actual minimum test separation distance is less than 5 mm, a separation distance of 5 mm shall be used for calculation. Power and distance are rounded to the nearest integer before calculation, and the calculated result is rounded to one decimal place for comparison. Only source-based time-averaged maximum conducted output power is used for SAR test exclusion evaluation; ERP shall not be applied in this clause.

4. 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.

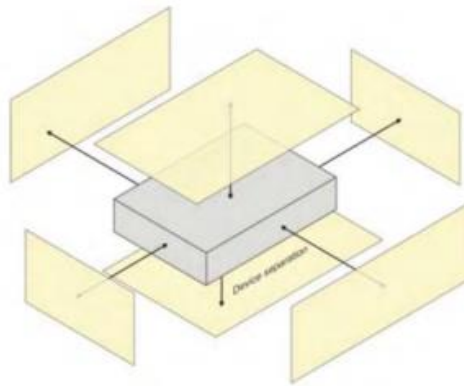
5. Per KDB 616217 D04, SAR evaluation for the front surface of tablet display screens are generally not necessary.
6. Per KDB 248227, as maximum rated power for U-NII-2A > U-NII-1, U-NII-2A was chosen for SAR evaluation. Based on the measurements obtained, SAR measurements on U-NII-1 are not required 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 Back Side, Left Side, Right Side, Top Side and Bottom Side.

8.1 Body-worn Position Conditions:

Body-worn accessory exposure is typically related to voice mode operations when handsets are carried in body-worn accessories. The body-worn accessory procedures in KDB Publication 447498 D01 v06 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

Burst Average Power (dBm)						
Band	GSM 850			PCS 1900		
Channel	128	190	251	512	661	810
Frequency (MHz)	824.2	836.6	848.8	1850.2	1880.0	1909.8
GSM(GMSK, 1-Slot)	33.75	33.87	33.77	30.42	30.75	30.77
GPRS (GMSK, 1-Slot)	33.52	33.65	33.51	30.61	30.65	30.66
GPRS (GMSK, 2-Slot)	32.71	32.84	32.72	29.57	29.89	29.9
GPRS (GMSK, 3-Slot)	30.86	31.04	30.93	27.77	28.11	28.17
GPRS (GMSK, 4-Slot)	29.67	29.87	29.75	26.66	27	27.07
EGPRS(8PSK, 1-Slot)	26.68	27.37	27.07	26.02	25.69	25.13
EGPRS(8PSK, 2-Slot)	25.9	26.16	25.91	26.37	25.4	24.76
EGPRS(8PSK, 3-Slot)	23.46	24.14	23.92	24.13	23.46	22.96
EGPRS(8PSK, 4-Slot)	22.46	23.02	22.9	23.13	22.15	22.1
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						

Frame- Average Power(dBm)						
Band	GSM 850			PCS 1900		
Channel	128	190	251	512	661	810
Frequency (MHz)	824.2	836.6	848.8	1850.2	1880.0	1909.8
GSM(GMSK, 1-Slot)	24.72	24.84	24.74	21.39	21.72	21.74
GPRS (GMSK, 1-Slot)	24.49	24.62	24.48	21.58	21.62	21.63
GPRS (GMSK, 2-Slot)	26.69	26.82	26.70	23.55	23.87	23.88
GPRS (GMSK, 3-Slot)	26.60	26.78	26.67	23.51	23.85	23.91
GPRS (GMSK, 4-Slot)	26.66	26.86	26.74	23.65	23.99	24.06
EGPRS(8PSK, 1-Slot)	17.65	18.34	18.04	16.99	16.66	16.10
EGPRS(8PSK, 2-Slot)	19.88	20.14	19.89	20.35	19.38	18.74
EGPRS(8PSK, 3-Slot)	19.20	19.88	19.66	19.87	19.20	18.70
EGPRS(8PSK, 4-Slot)	19.45	20.01	19.89	20.12	19.14	19.09
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			WCDMA Band 4		
Channel	9262	9400	9538	4132	4183	4233	1312	1413	1513
Frequency (MHz)	1852.4	1880	1907.6	826.4	836.6	846.6	1712.6	1740	1752.4
RMC 12.2Kbps	23.73	23.54	23.46	24.33	24.26	24.24	24.11	24	24.07
HSDPA Subtest-1	21.12	22.45	22.34	22.36	23.12	23.1	22.18	22.74	22.88
HSDPA Subtest-2	22.74	22.55	22.49	23.13	23.25	23.19	23.08	23.02	22.91
HSDPA Subtest-3	20.81	21.33	21.09	21.86	21.92	22.13	21.32	21.63	21.75
HSDPA Subtest-4	22.76	22.58	22.52	23.38	23.28	23.27	23.12	23.03	23.08
HSUPA Subtest-1	21.14	22.11	21.84	21.75	22.64	22.57	21.48	22.19	22.33
HSUPA Subtest-2	22.83	22.61	22.56	23.36	23.3	23.32	23.14	23.03	23.11
HSUPA Subtest-3	22.39	22.38	21.99	23.02	22.71	22.75	22.62	22.46	22.64
HSUPA Subtest-4	21.35	20.98	20.74	21.84	21.7	21.78	21.7	21.21	21.58
HSUPA Subtest-5	21.35	21.18	21.01	21.98	21.96	21.65	21.69	21.35	21.56

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)	Average Power (dBm)	Output Power (mW)
802.11b	1	2412	11.92	15.56
	7	2437	12.34	17.14
	11	2462	12.62	18.28
802.11g	1	2412	10.68	11.69
	7	2437	10.98	12.53
	11	2462	10.59	11.46
802.11 n-HT20	1	2412	9.58	9.08
	7	2437	9.96	9.91
	11	2462	9.38	8.67
802.11 n-HT40	3	2422	8.37	6.87
	6	2437	8.67	7.36
	9	2452	8.49	7.06

Bluetooth

BT				
Mode	Channel Number	Frequency (MHz)	Average Power (dBm)	Output Power (mW)
GFSK(1Mbps)	0	2402	3.83	2.42
	39	2441	1.21	1.32
	78	2480	-0.52	0.89
$\pi/4$ -QPSK(2Mbps)	0	2402	2.87	1.94
	39	2441	0.59	1.15
	78	2480	-1.08	0.78
8DPSK(3Mbps)	0	2402	2.96	1.98
	39	2441	0.52	1.13
	78	2480	-1.2	0.76

BLE

BLE				
Mode	Channel Number	Frequency (MHz)	Average Power (dBm)	Output Power (mW)
GFSK(1Mbps)	0	2402	1.73	1.49
	19	2440	-0.54	0.88
	39	2480	-2.11	0.62

**WLAN (5.2Gband)**

5.2G WLAN				
Mode	Channel Number	Frequency (MHz)	Average Power (dBm)	Output Power (mW)
802.11a	36	5180	11.06	12.76
	40	5200	11.29	13.46
	48	5240	12.32	17.06
802.11 n-HT20	36	5180	9.48	8.87
	40	5200	9.56	9.04
	48	5240	10.56	11.38
802.11 n-HT40	38	5190	8.73	7.46
	46	5230	9.42	8.75
802.11ac-VHT20	36	5180	9.39	8.69
	40	5200	9.72	9.38
	48	5240	10.54	11.32
802.11ac-VHT40	38	5190	8.75	7.50
	46	5230	9.34	8.59
802.11ac-VHT80	42	5210	7.68	5.86

WLAN (5.8Gband)

5.8G WLAN				
Mode	Channel Number	Frequency (MHz)	Average Power (dBm)	Output Power (mW)
802.11a	149	5745	10.32	10.76
	157	5785	10.47	11.14
	165	5825	10.51	11.25
802.11 n-HT20	149	5745	9.15	8.22
	157	5785	9.46	8.83
	165	5825	9.5	8.91
802.11 n-HT40	151	5755	7.22	5.27
	159	5795	7.45	5.56
802.11ac-VHT20	149	5745	9.35	8.61
	157	5785	9.44	8.79
	165	5825	9.66	9.25
802.11ac-VHT40	151	5755	7.43	5.53
	159	5795	7.35	5.43
802.11ac-VHT80	155	5775	6.41	4.38



LTE Conducted Power

General Note:

1. ROHDE & SCHWARZ CMW500 base station simulator was used to setup the connection with EUT; the frequency band, channel bandwidth, RB allocation configuration, modulation type are set in the base station simulator to configure EUT transmitting at maximum power and at different configurations which are requested to be reported to FCC, for conducted power measurement and SAR testing.
2. Per KDB 941225 D05, when a properly configured base station simulator is used for the SAR and power measurements, spectrum plots for each RB allocation and offset configuration is not required.
3. Per KDB 941225 D05, start with the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel.
4. Per KDB 941225 D05, 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure.
5. Per KDB 941225 D05, For QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are ≤ 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested.
6. Per KDB 941225 D05, 16QAM output power for each RB allocation configuration is $>$ not $\frac{1}{2}$ dB higher than the same configuration in QPSK and the reported SAR for the QPSK configuration is ≤ 1.45 W/kg; Per KDB 941225 D05, 16QAM SAR testing is not required.
7. Per KDB 941225 D05, Smaller bandwidth output power for each RB allocation configuration is $>$ not $\frac{1}{2}$ dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is ≤ 1.45 W/kg; Per KDB 941225 D05, smaller bandwidth SAR testing is not required.



LTE Band 5 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	24.06	23.96	23.94
1.4	1	2		24.26	24.1	24.18
1.4	1	5		24.1	23.9	23.99
1.4	3	0		24.08	24.06	24.03
1.4	3	1		24.11	24.04	24.02
1.4	3	2		24.12	24.04	24.01
1.4	6	0		23.06	22.96	23.01
1.4	1	0	16-QAM	23.21	23.15	22.79
1.4	1	2		23.34	23.28	23.03
1.4	1	5		23.25	23.15	22.84
1.4	3	0		23.29	23.26	23.16
1.4	3	1		23.29	23.28	23.21
1.4	3	2		23.28	23.29	23.22
1.4	6	0		22.26	22.15	22.19
3	1	0	QPSK	24	23.93	23.95
3	1	7		24.33	24.26	24.09
3	1	14		24.01	23.96	24.02
3	8	0		23.05	22.94	22.99
3	8	4		23.04	22.97	23.04
3	8	7		23.03	22.97	22.99
3	15	0		22.98	22.96	22.97
3	1	0	16-QAM	23.46	23.16	22.92
3	1	7		23.72	23.52	23.13
3	1	14		23.43	23.1	22.87
3	8	0		22.04	21.95	21.98
3	8	4		22.04	21.98	22.02
3	8	7		22.02	21.96	21.96
3	15	0		22.03	21.88	22.05

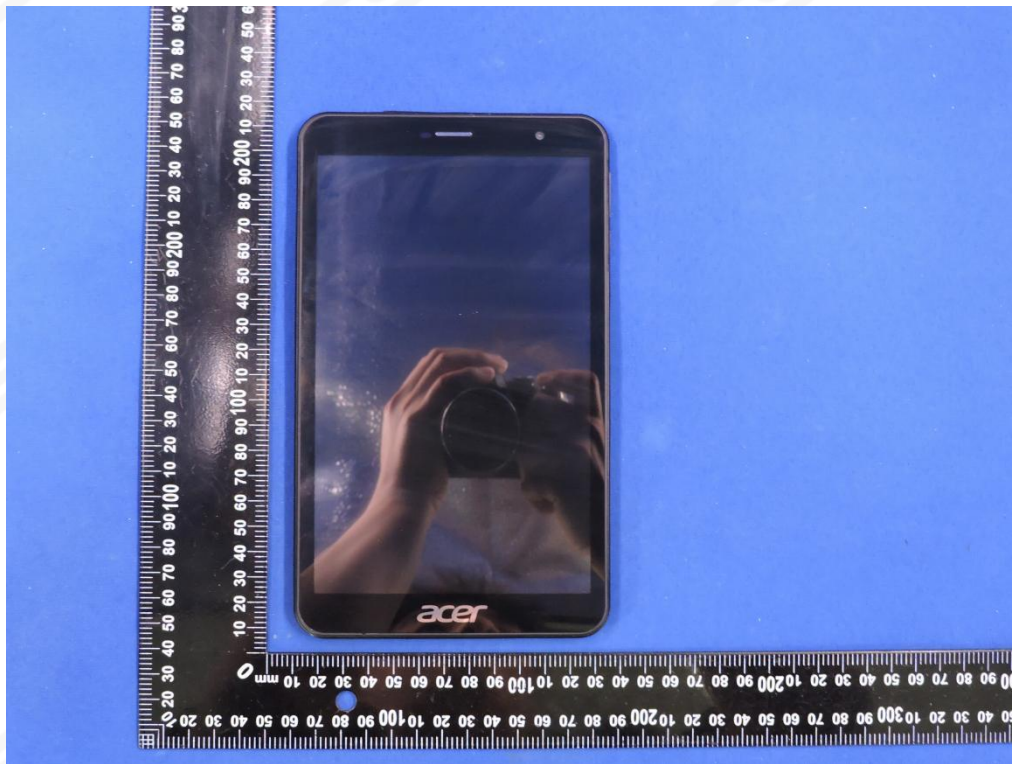


LTE Band 5 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	23.92	23.85	23.85
5	1	12		24.3	24.23	24.1
5	1	24		23.91	23.86	23.82
5	12	0		23.03	22.87	23.06
5	12	6		23.07	22.95	23.02
5	12	11		23.02	22.86	22.95
5	25	0		23	22.92	23.01
5	1	0	16-QAM	23.41	23.21	23.22
5	1	12		23.89	23.62	23.54
5	1	24		23.47	23.2	23.2
5	12	0		22.03	21.8	22.07
5	12	6		22.07	21.9	22.05
5	12	11		22	21.84	21.92
5	25	0		22.02	21.96	22.01
10	1	0	QPSK	24	24.01	23.89
10	1	24		24.1	24.08	24.02
10	1	49		23.97	23.96	23.92
10	25	0		23.05	22.93	23.01
10	25	12		22.98	22.94	23
10	25	24		23.09	22.92	22.84
10	50	0		23.05	22.93	22.95
10	1	0	16-QAM	23.14	22.82	23.36
10	1	24		23.3	22.91	23.54
10	1	49		23.13	22.85	23.34
10	25	0		22.07	21.97	22.05
10	25	12		21.97	21.91	22.02
10	25	24		22.06	21.96	21.89
10	50	0		22.11	21.9	21.97

11. EUT and Test Setup Photo

11.1 EUT Photo

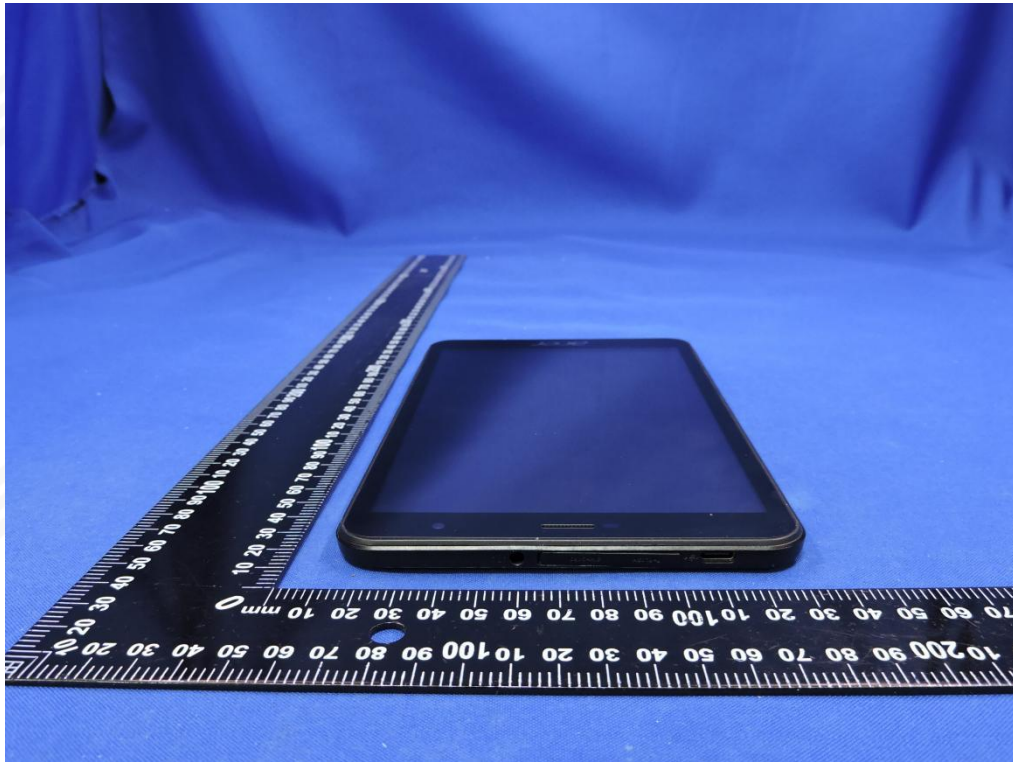
Front side



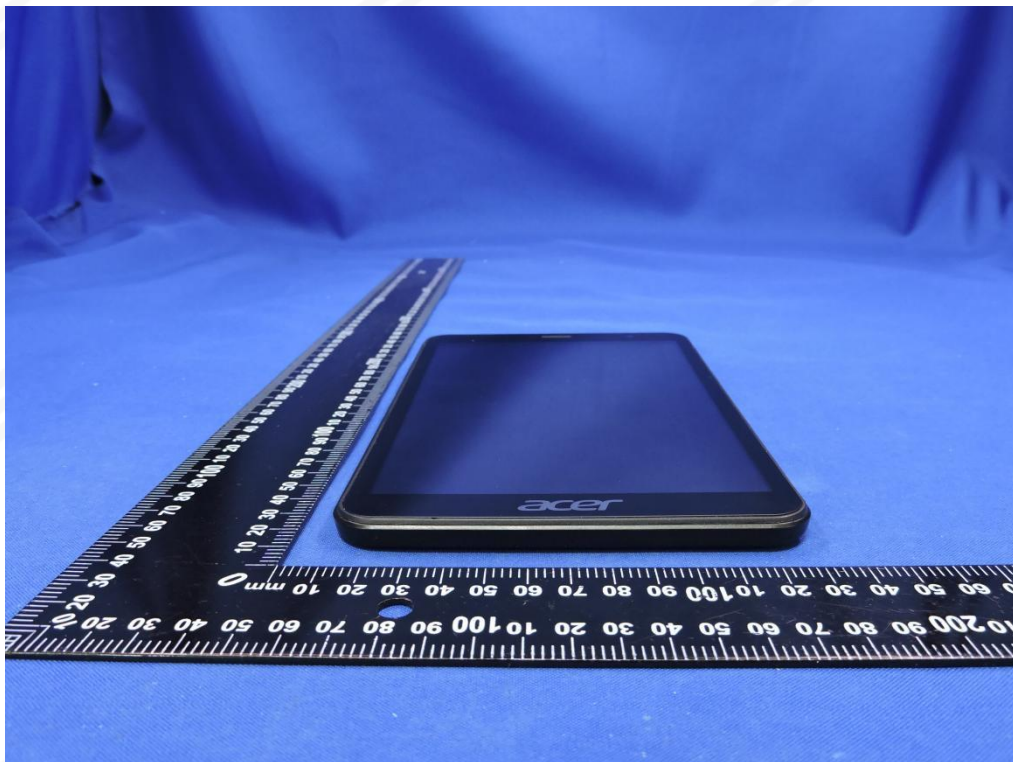
Back side



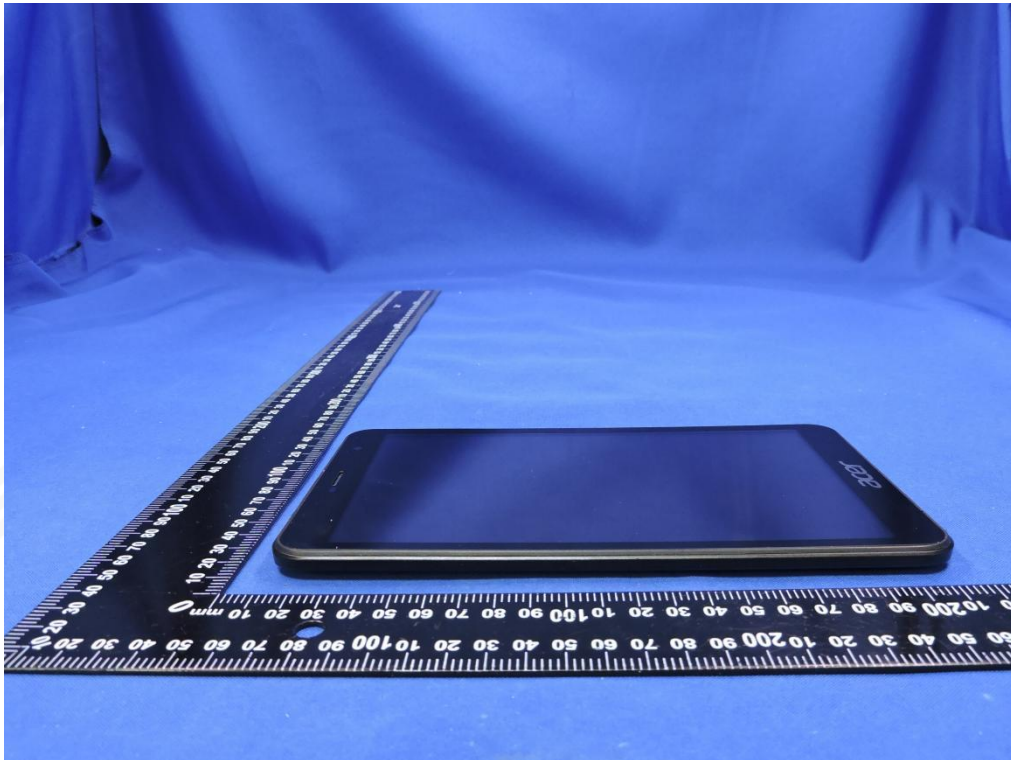
Top side



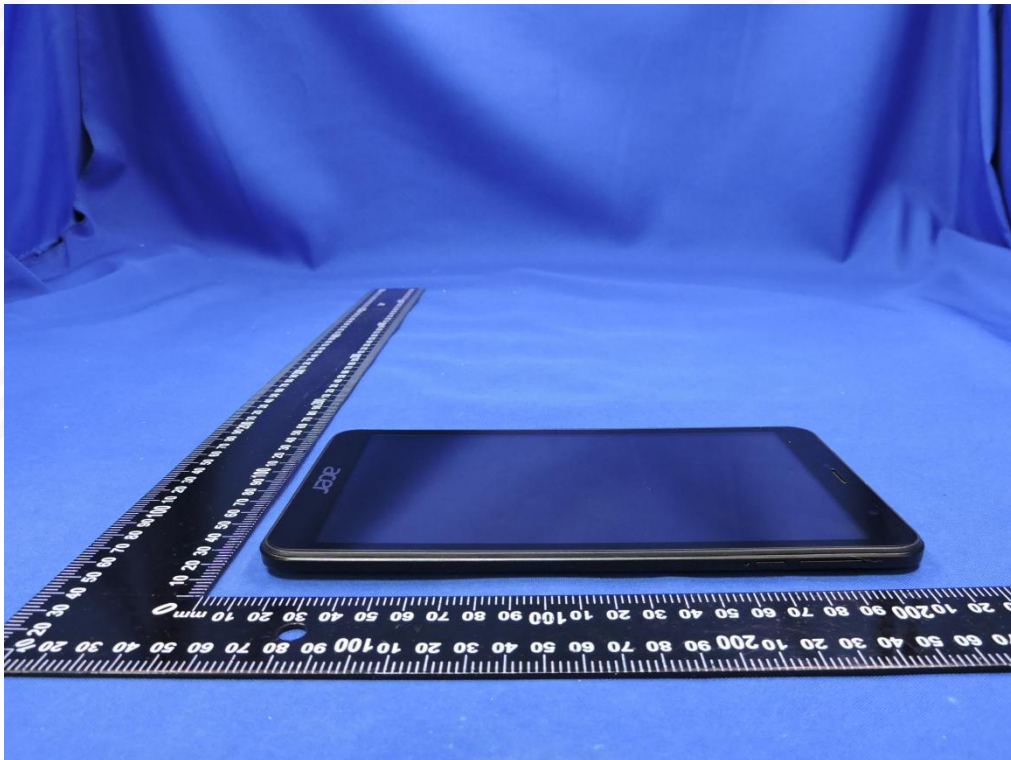
Bottom side



Left side

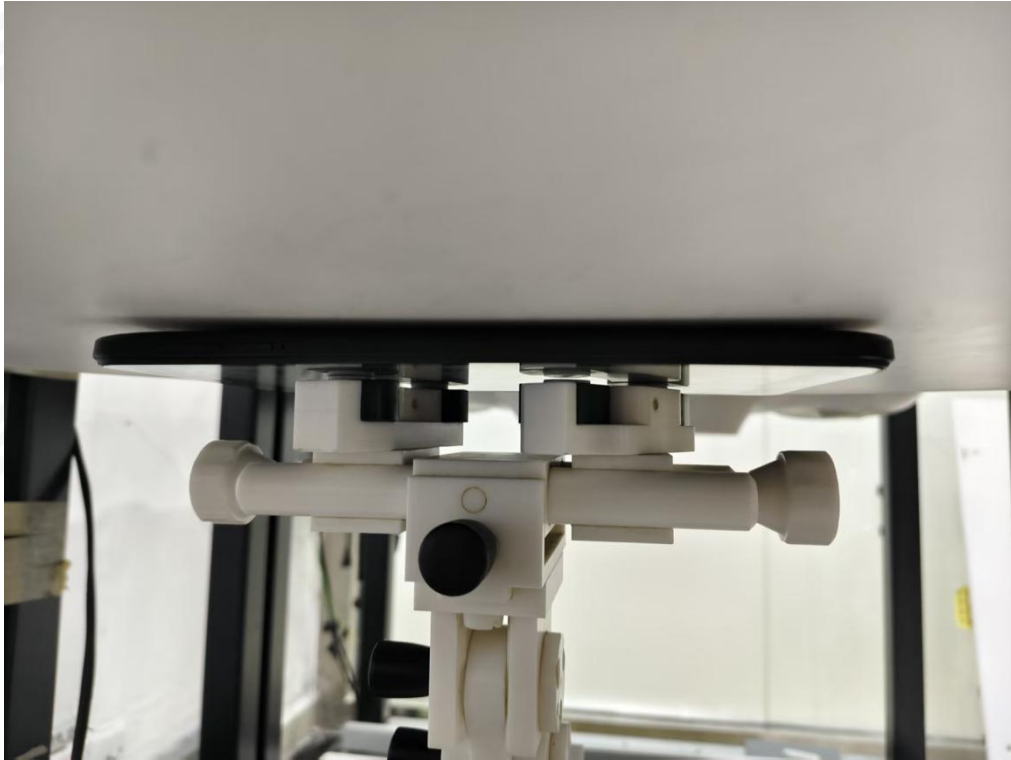


Right side

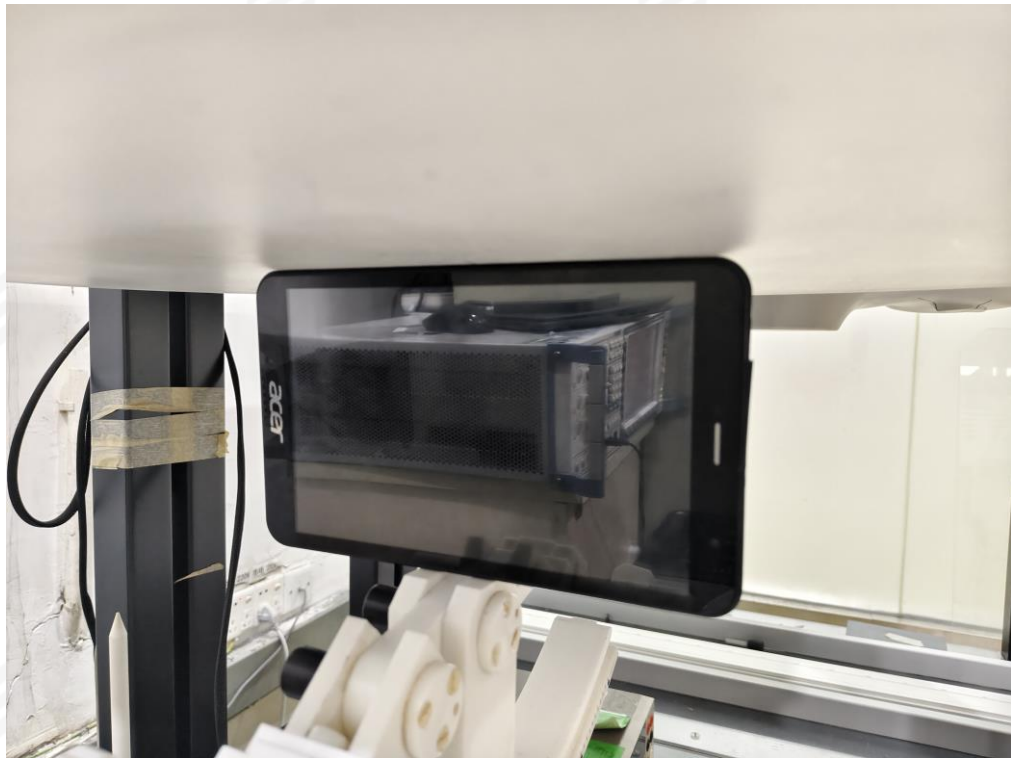


11.2 Setup Photo

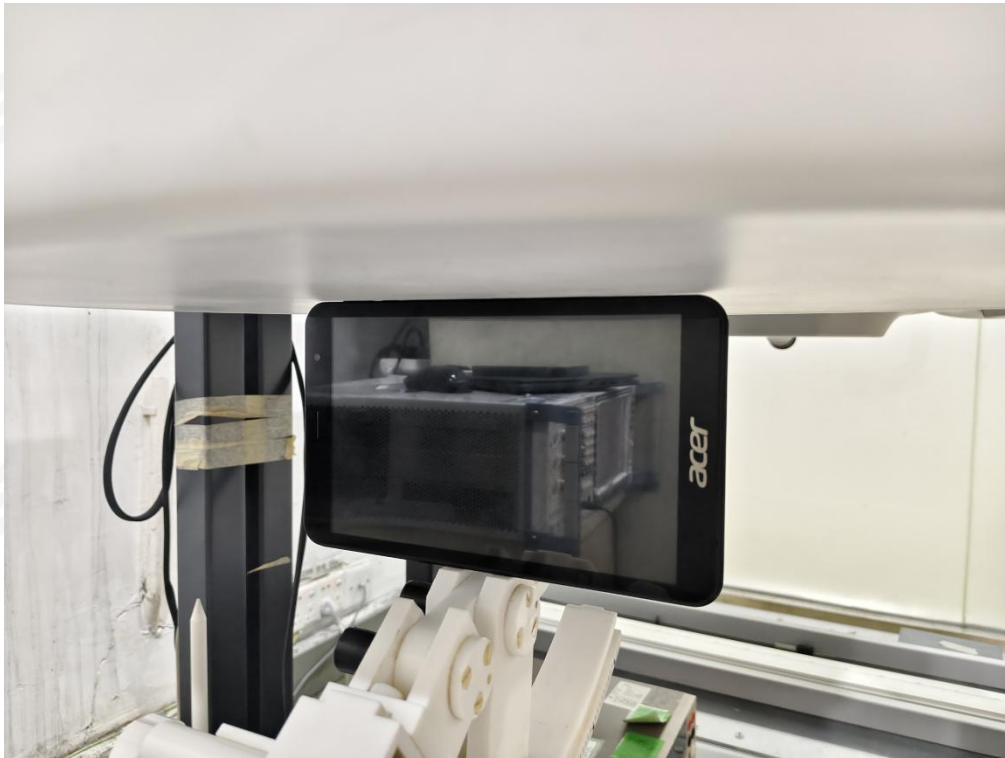
Body Back side(separation distance is 0mm)



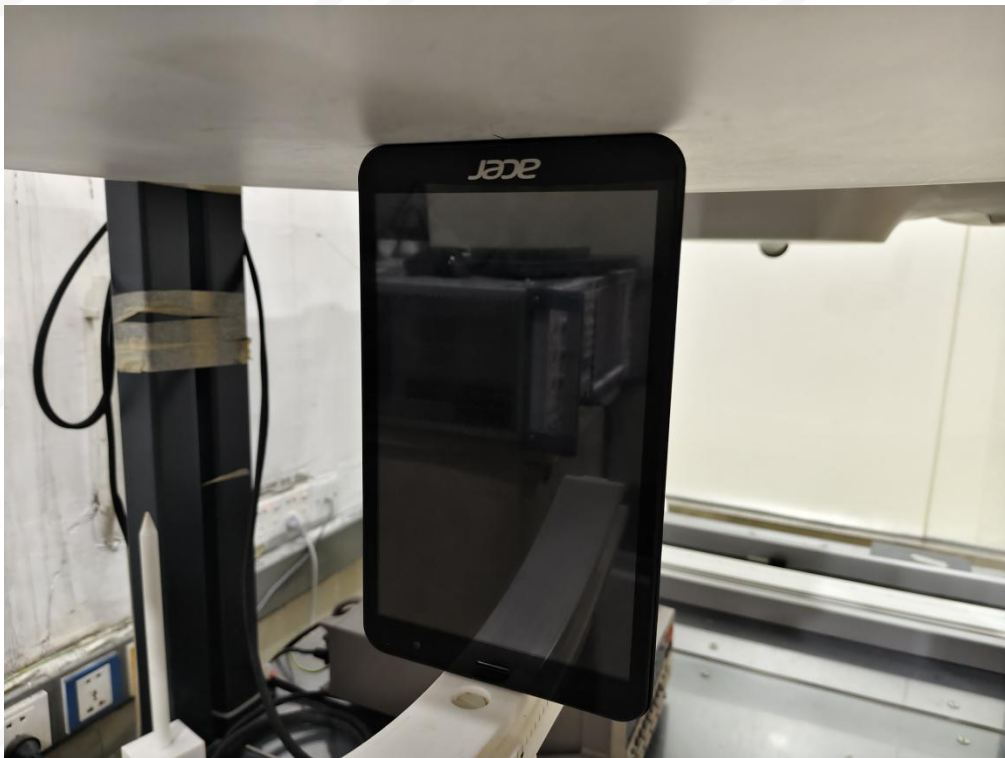
Body Left side(separation distance is 0mm)



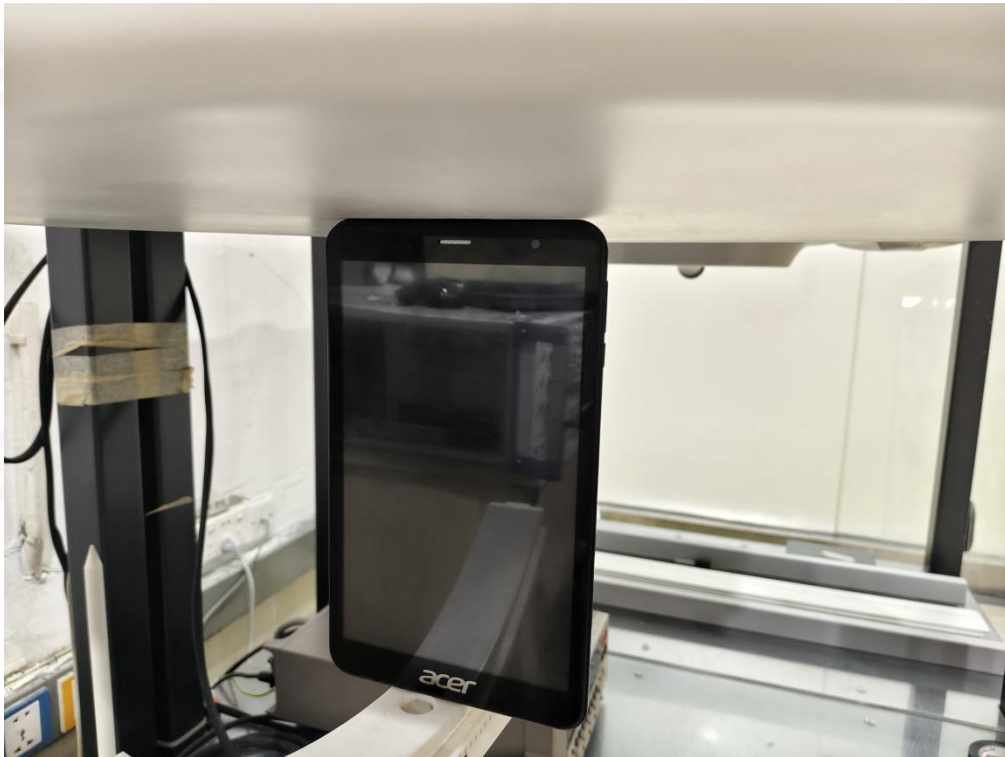
Body Right side(separation distance is 0mm)



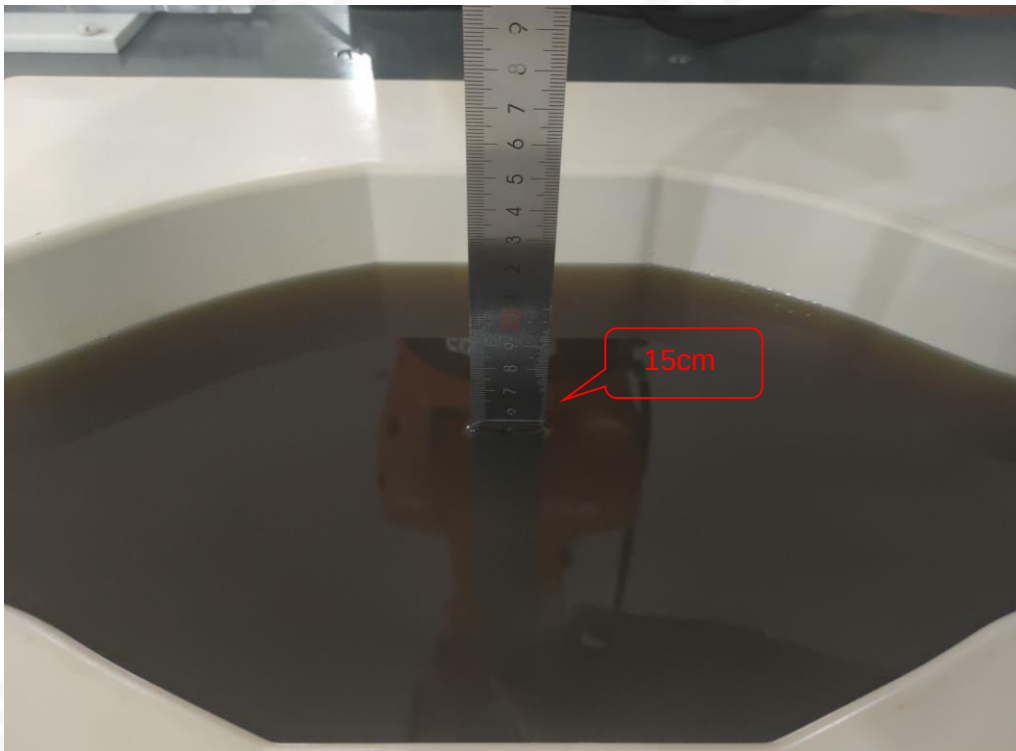
Body Bottom side(separation distance is 0mm)



Body Top side(separation distance is 0mm)



Liquid depth (15 cm)





12. SAR Result Summary

12.1 Body-worn SAR

Band	BW (MHz)	Mod.	RB Size	RB offset	Test Position	Freq.	Result 1g (W/Kg)	Power Drift (%)	Max. Turn-up Power (dBm)	Meas. Output Power (dBm)	Scaling Factor	Scaled SAR (W/Kg)	Meas. No.
GSM850	N/A	GPRS Data-4 Slot	N/A	N/A	Back Side	836.6	0.332	-0.83	30.00	29.87	1.030	0.342	1
					Left Side	836.6	0.088	1.58	30.00	29.87	1.030	0.091	/
					Right Side	836.6	0.201	1.41	30.00	29.87	1.030	0.207	/
					Top Side	836.6	0.005	3.46	30.00	29.87	1.030	0.005	/
					Bottom Side	836.6	0.251	3.35	30.00	29.87	1.030	0.259	/
GSM1900	N/A	GPRS Data-4 Slot	N/A	N/A	Back Side	1850.2	1.037	1.78	27.10	26.66	1.107	1.148	/
					Back Side	1880	1.102	-1.53	27.10	27.00	1.023	1.128	/
					Back Side	1909.8	1.156	3.32	27.10	27.07	1.007	1.164	2
					Left Side	1909.8	0.438	-0.56	27.10	27.07	1.007	0.441	/
					Right Side	1909.8	0.856	-3.48	27.10	27.07	1.007	0.862	/
					Bottom Side	1909.8	0.993	0.16	27.10	27.07	1.007	1.000	/
WCDMA Band II	N/A	RMC	N/A	N/A	Back Side	1852.4	1.135	0.88	24.00	23.73	1.064	1.208	3
					Back Side	1880	1.028	-2.59	24.00	23.54	1.112	1.143	/
					Back Side	1907.6	1.032	-2.75	24.00	23.46	1.132	1.169	/
					Left Side	1852.4	0.451	1.20	24.00	23.73	1.064	0.480	/
					Right Side	1852.4	0.766	3.58	24.00	23.73	1.064	0.815	/
					Bottom Side	1852.4	0.874	-0.59	24.00	23.73	1.064	0.930	/
WCDMA Band IV	N/A	RMC	N/A	N/A	Back Side	1712.6	0.906	3.79	24.50	24.33	1.040	0.942	4
					Back Side	1740	0.853	2.31	24.50	24.26	1.057	0.901	/
					Back Side	1752.4	0.872	-3.10	24.50	24.24	1.062	0.926	/
					Left Side	1712.6	0.240	-2.08	24.50	24.33	1.040	0.250	/
					Right Side	1712.6	0.551	-1.43	24.50	24.33	1.040	0.573	/
					Bottom Side	1712.6	0.695	1.76	24.50	24.33	1.040	0.723	/
WCDMA Band V	N/A	RMC	N/A	N/A	Back Side	826.4	0.323	2.41	24.50	24.11	1.094	0.353	5
					Left Side	826.4	0.103	2.75	24.50	24.11	1.094	0.113	/
					Right Side	826.4	0.224	-1.38	24.50	24.11	1.094	0.245	/
					Bottom Side	826.4	0.291	-0.84	24.50	24.11	1.094	0.318	/
2.4GHz WLAN	N/A	802.11b	N/A	N/A	Back Side	2462	0.169	-1.66	13.00	12.62	1.091	0.184	6
					Top Side	2462	0.134	3.18	13.00	12.62	1.091	0.146	/
5.2GHz WLAN	N/A	802.11a	N/A	N/A	Back Side	5240	0.216	3.64	12.50	12.32	1.042	0.225	7



					Left Side	5240	0.117	1.46	12.50	12.32	1.042	0.122	/
					Top Side	5240	0.159	2.01	12.50	12.32	1.042	0.166	/
5.8GHz WLAN	N/A	802.11a	N/A	N/A	Back Side	5825	0.25	-0.96	11.00	10.51	1.119	0.280	8
					Top Side	5825	0.21	-0.91	11.00	10.51	1.119	0.235	/
LTE Band 5	10M	QPSK	1	24	Back Side	829	0.251	0.24	24.5	24.1	1.096	0.275	9
			25	24	Back Side	829	0.226	-3.10	23.5	23.09	1.099	0.248	/
			1	24	Left Side	829	0.081	-0.88	24.5	24.1	1.096	0.089	/
			25	24	Left Side	829	0.072	2.40	23.5	23.09	1.099	0.079	/
			1	24	Right Side	829	0.117	0.93	24.5	24.1	1.096	0.128	/
			25	24	Right Side	829	0.092	1.84	23.5	23.09	1.099	0.101	/
			1	24	Bottom Side	829	0.234	-0.53	24.5	24.1	1.096	0.257	/
			25	24	Bottom Side	829	0.212	-1.48	23.5	23.09	1.099	0.233	/
LTE Band 41	20M	QPSK	1	49	Back Side	2645	0.230	-2.78	24	23.92	1.019	0.234	10
			50	24	Back Side	2645	0.219	-1.29	23	22.74	1.062	0.233	/
			1	49	Left Side	2645	0.072	1.99	24	23.92	1.019	0.073	/
			50	24	Left Side	2645	0.061	-2.48	23	22.74	1.062	0.065	/
			1	49	Right Side	2645	0.161	3.33	24	23.92	1.019	0.164	/
			50	24	Right Side	2645	0.134	0.14	23	22.74	1.062	0.142	/
			1	49	Bottom Side	2645	0.220	-1.56	24	23.92	1.019	0.224	/
			50	24	Bottom Side	2645	0.196	-1.89	23	22.74	1.062	0.208	/

Note:

- The test separation of all above table is 0mm.
- Per KDB 447498 D01 v06, 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



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.
GSM1900	GPRS Data-4 Slot	Back Side	1909.8	1.121	3.86	27.10	27.07	1.128	-
WCDMA Band II	RMC	Back Side	1852.4	1.133	-1.33	24.00	23.73	1.205	-
WCDMA Band IV	RMC	Back Side	1712.6	0.861	-3.76	24.50	24.33	0.896	-

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
GSM1900	GPRS Data-4 Slot	Back Side	1909.8	1.156	1.121	1.032	-	-	-
WCDMA Band II	RMC	Back Side	1852.4	1.135	1.133	1.002	-	-	-
WCDMA Band IV	RMC	Back Side	1712.6	0.906	0.861	1.052	-	-	-

Note:

1. Per KDB 447498 D01 v06, for each frequency band, repeated SAR measurement is required only when the measured SAR is $\geq 0.8\text{W/Kg}$.
2. Per KDB 447498 D01 v06, if the ratio of largest to smallest SAR for the original and first repeated measurement is ≤ 1.2 and the measured SAR $< 1.45\text{W/Kg}$, only one repeated measurement is required.
3. 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 $\geq 1.45\text{W/Kg}$.
4. 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
	5. LTE + 2.4GHz WLAN/5G WLAN
	6. LTE + Bluetooth

NOTE:

1. Bluetooth and WLAN can't simultaneous transmission at the same time.
2. For simultaneous transmission at head and body exposure position, 2 transmitters simultaneous transmission was the worst state.
- 3 Based upon KDB 447498 D01, BT SAR is excluded as below table
4. If the test separation distance is <5mm, 5mm is used for excluded SAR calculation.
5. KDB 447498 D01 v06 /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) $(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm}) \cdot [\sqrt{f} \text{ (GHz)} / x] \text{ W/kg}$ for test separation distances $\leq 50 \text{ mm}$; Where $x = 7.5$ for 1-g SAR, and $x = 18.75$ for 10-g SAR. b) 0.4 W/Kg for 1-g SAR and 1.0 W/Kg for 10-g SAR, when the separation distance is $> 50 \text{ mm}$.

Estimated SAR		Maximum Average Power		Dis.	Frequency(GHz)	Stand alone SAR(1&10g) [W/kg]
		dBm	mW			
BT	Body	3.82	2.410	5	2.402	0.100



Simultaneous Mode	Position	Mode	Max. 1-g SAR	1-g Sum SAR
			(W/kg)	(W/kg)
GSM + 2.4G WLAN	Body	GSM	1.164	1.348
		2.4G WLAN	0.184	
GSM + Bluetooth	Body	GSM	1.164	1.264
		Bluetooth	0.100	
GSM + 5G WLAN	Body	GSM	1.164	1.444
		5G WLAN	0.280	
WCDMA + 2.4G WLAN	Body	WCDMA	1.208	1.392
		2.4G WLAN	0.184	
WCDMA + Bluetooth	Body	WCDMA	1.208	1.308
		Bluetooth	0.100	
WCDMA + 5G WLAN	Body	WCDMA	1.208	1.488
		5G WLAN	0.280	
LTE + 2.4G WLAN	Body	LTE	0.275	0.460
		2.4G WLAN	0.184	
LTE + Bluetooth	Body	LTE	0.275	0.375
		Bluetooth	0.100	
LTE + 5G WLAN	Body	LTE	0.275	0.555
		5G WLAN	0.280	

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
SAR Test System	SATIMO	N/A	V5.3.15.11	N/A	N/A
835MHz Dipole	MVG	SID835	SN 30/14 DIP0G835-332	2023.07.04	2026.07.03
1800MHz Dipole	MVG	SID1800	5023-DIP1G800-747	2023.12.20	2026.12.19
1900MHz Dipole	MVG	SID1900	SN 30/14 DIP1G900-333	2023.09.14	2026.09.13
2450MHz Dipole	MVG	SID2450	SN 30/14 DIP2G450-335	2023.07.04	2026.07.03
2600MHz Dipole	MVG	SID2600	SN 30/14 DIP2G600-336	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	2025.09.15	2026.09.14
Dielectric Probe Kit	MVG	SCLMP	SN 32/14 OCPG67	2025.09.15	2026.09.14
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	2026.02.04	2027.02.03
Directional coupler	Xi'an Xingbo	XBOH-OA08-20dB	211123-4-3	2026.02.03	2027.02.02
Network Analyzer	Agilent	E5071C	MY46520378	2025-09-26	2026-09-24
Multi Meter	Keithley	Multi Meter 2000	4050073	2025-09-22	2026-09-21
Signal Generator	Agilent	N5182A	MY50140530	2025-09-26	2026-09-25
Wireless Communication Test Set	Agilent	8960-E5515C	MY48360751	2026.02.04	2027.02.03
Wireless Communication Test Set	R&S	CMW500	156324	2025-09-25	2026-09-24
Power Amplifier	DESAY	WCS-DLNA50M8G50G1	CSKJLNA231227A	2025-09-29	2026-09-28
Power Meter	R&S	NRP	100510	2025-09-25	2026-09-24
Power Sensor	R&S	NRP-Z11	101919	2025-09-25	2026-09-24
Power Sensor	Keysight	U2021XA	MY56280002	2025-09-25	2026-09-24
Temperature hygrometer	TOPRIE	TP502V4-P	6700000124198	2025.10.09	2026.10.08
Thermograph	Elitech	RC-4	S/N EF7176501537	2025.10.17	2026.10.16

Appendix A. System Validation Plots

System Performance Check Data (835MHz)

Type: Phone measurement (Complete)

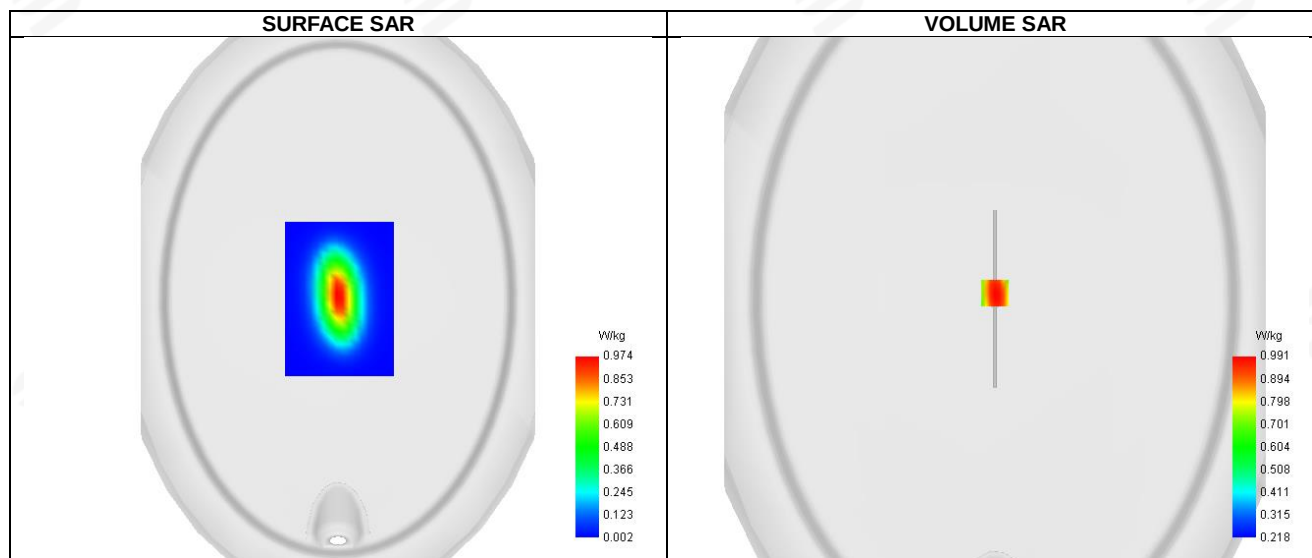
Area scan resolution: dx=8mm, dy=8mm

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

Date of measurement: 2026-05-28

Experimental conditions

Phantom	Validation plane
Device Position	Dipole
Band	835MHz
Channels	Middle
Signal	CW
Frequency (MHz)	835MHz
Relative permittivity	42.10
Conductivity (S/m)	0.90
Probe	SN 08/21 EPGO352
ConvF	1.49
Crest factor:	1:1



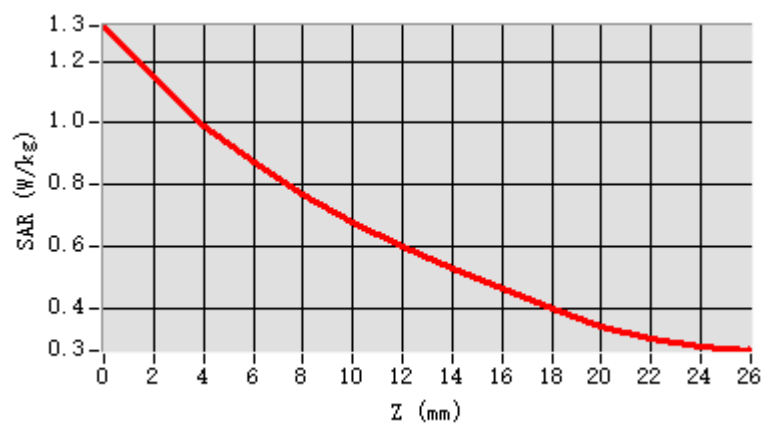
Maximum location: X=0.00, Y=5.00 ; SAR Peak: 1.30 W/kg

D. SAR 1g & 10g

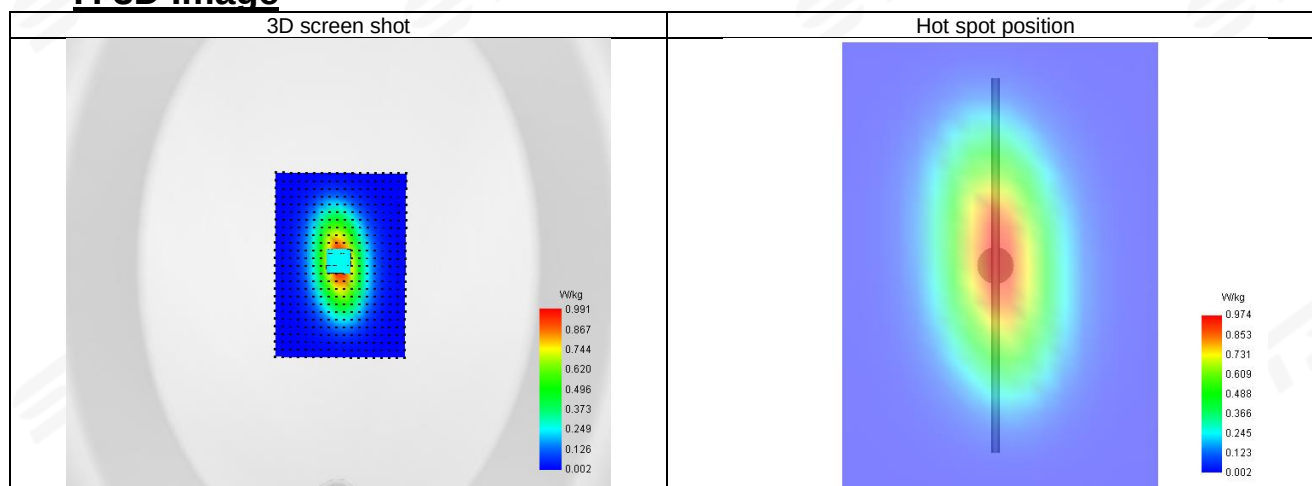
SAR 10g (W/Kg)	0.651
SAR 1g (W/Kg)	1.030
Horizontal validation criteria: minimum distance (mm)	15.66324
Vertical validation criteria: SAR ratio M2/M1 (%)	75.418569

E. Z Axis Scan

Z (mm)	0.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00	24.00
SAR (W/Kg)	1.314	0.991	0.876	0.769	0.677	0.598	0.529	0.461	0.397	0.342	0.300	0.273



F. 3D Image



**System Performance Check Data(1800MHz)**

Type: Phone measurement (Complete)

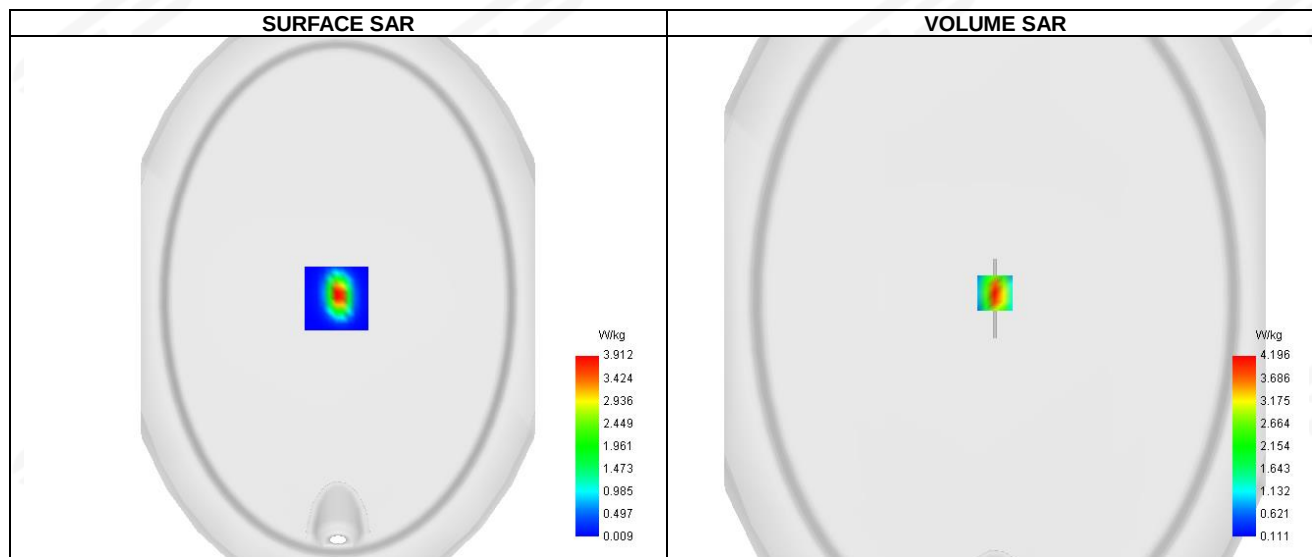
Area scan resolution: dx=8mm, dy=8mm

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

Date of measurement: 2026-05-28

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	1800MHz
Channels	Middle
Signal	CW
Frequency (MHz)	1800MHz
Relative permittivity	40.25
Conductivity (S/m)	1.41
Probe	SN 08/21 EPGO352
ConvF	1.54
Crest factor:	1:1



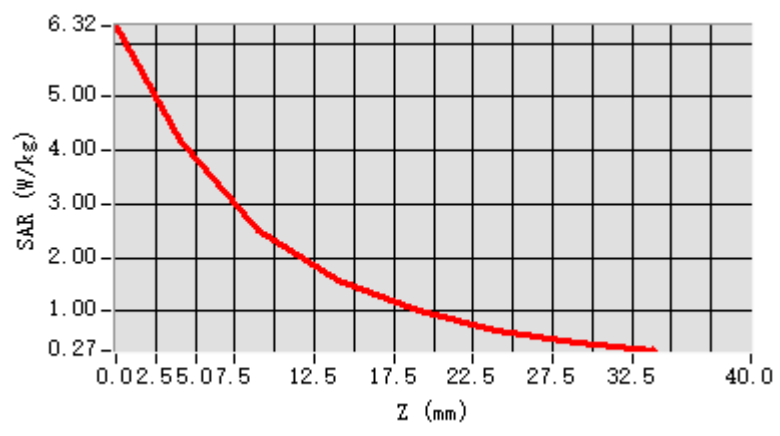
Maximum location: X=0.00, Y=5.00 ; SAR Peak: 6.33 W/kg

D. SAR 1g & 10g

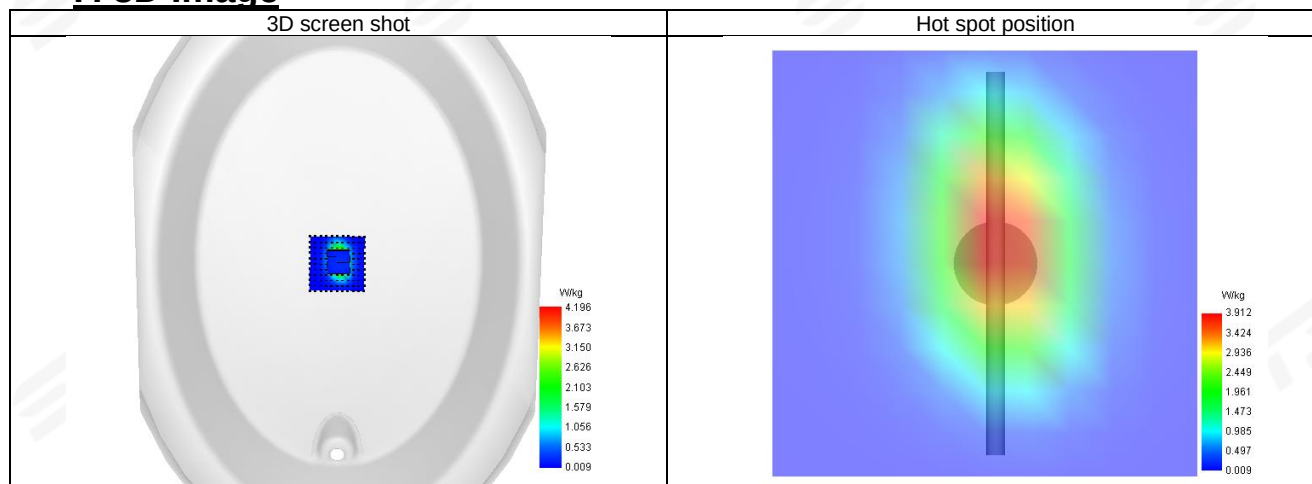
SAR 10g (W/Kg)	2.000
SAR 1g (W/Kg)	3.814
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	59.778326

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	6.323	4.196	2.508	1.568	1.000	0.639	0.413



F. 3D Image



System Performance Check Data (1900MHz)

Type: Phone measurement (Complete)

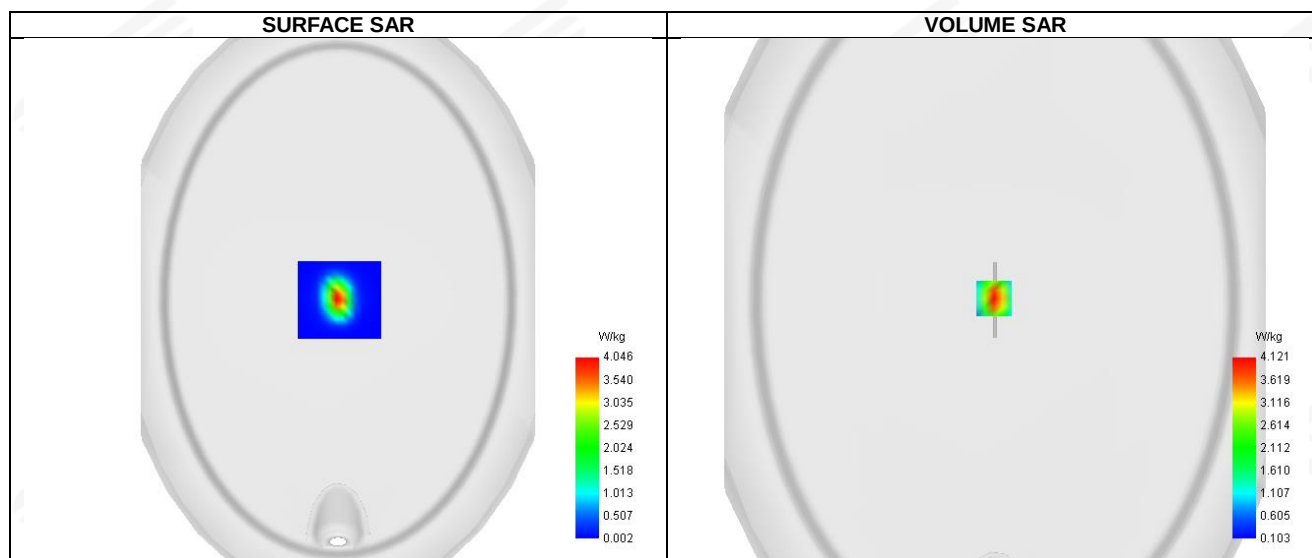
Area scan resolution: dx=8mm, dy=8mm

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

Date of measurement: 2025-05-28

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	1900MHz
Channels	Middle
Signal	CW
Frequency (MHz)	1900MHz
Relative permittivity	39.81
Conductivity (S/m)	1.41
Probe	SN 08/21 EPGO352
ConvF	1.73
Crest factor:	1:1



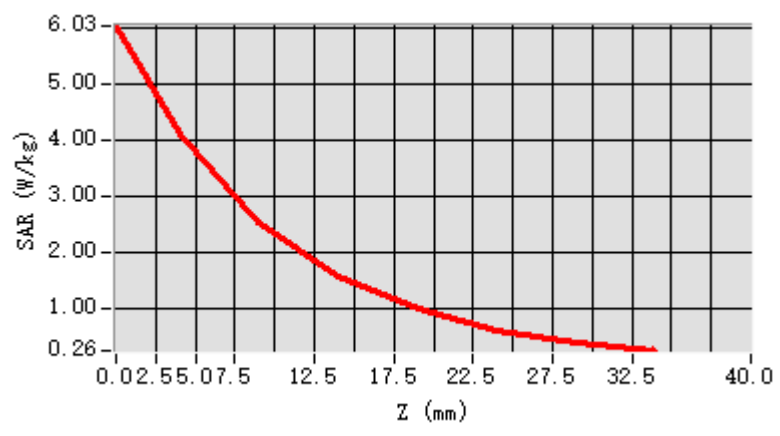
Maximum location: X=-1.00, Y=1.00 ; SAR Peak: 6.03 W/kg

D. SAR 1g & 10g

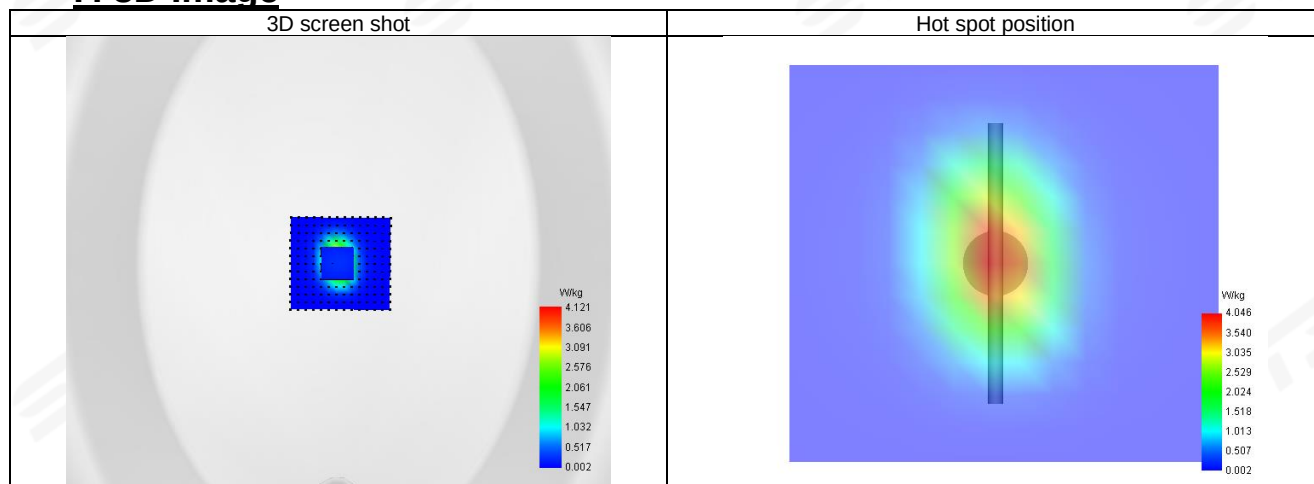
SAR 10g (W/Kg)	2.037
SAR 1g (W/Kg)	3.955
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	61.828706

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	6.033	4.121	2.548	1.576	1.010	0.634	0.398



F. 3D Image



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

Type: Phone measurement (Complete)

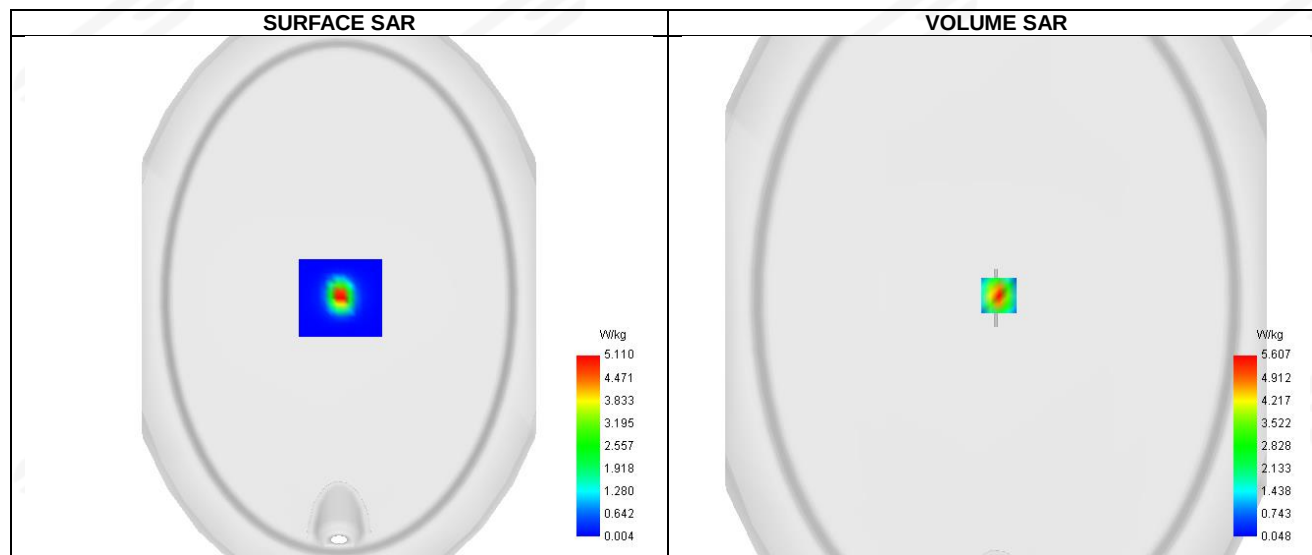
Area scan resolution: dx=8mm, dy=8mm

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

Date of measurement: 2026-05-29

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	2450MHz
Channels	Middle
Signal	CW
Frequency (MHz)	2450
Relative permittivity	39.88
Conductivity (S/m)	1.79
Probe	SN 08/21 EPGO352
ConvF	1.82
Crest factor:	1:1



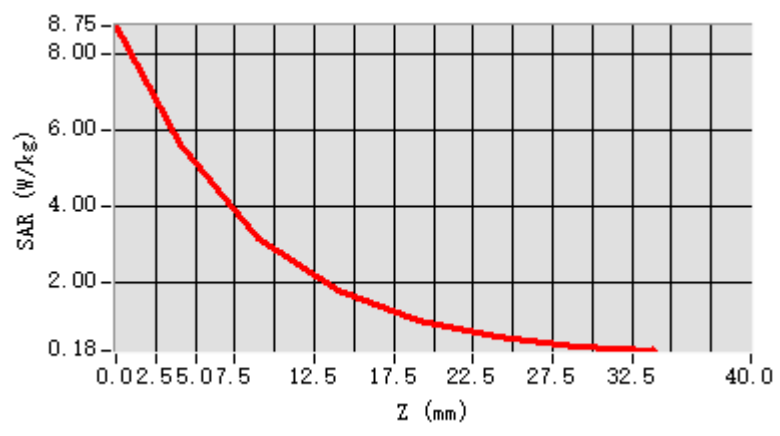
Maximum location: X=3.00, Y=2.00 ; SAR Peak: 8.73 W/kg

D. SAR 1g & 10g

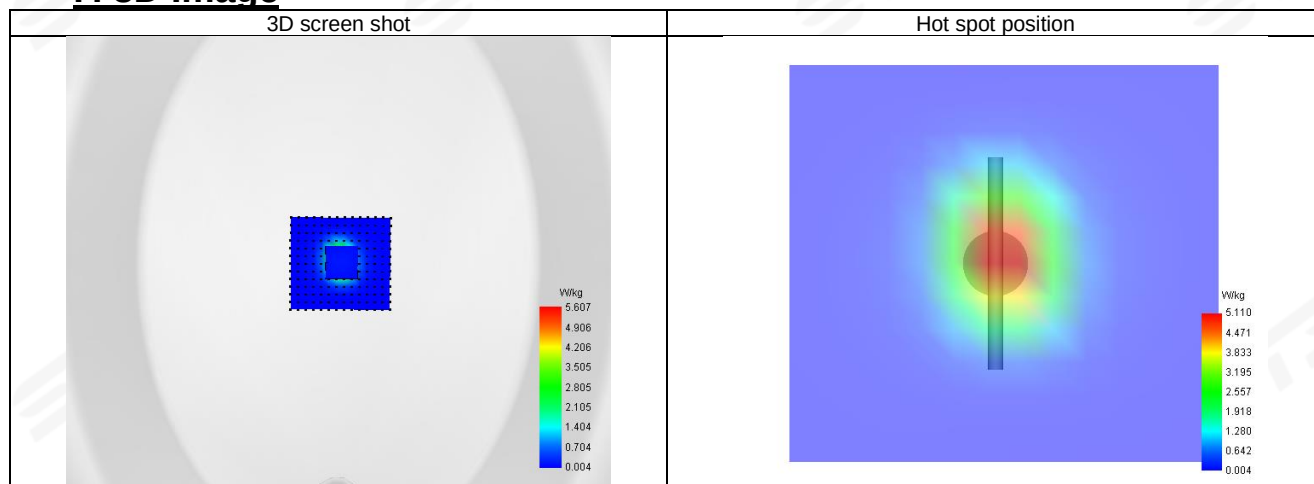
SAR 10g (W/Kg)	2.382
SAR 1g (W/Kg)	5.504
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	55.807583

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	8.749	5.607	3.129	1.753	0.994	0.559	0.315



F. 3D Image



**System Performance Check Data(2600MHz)**

Type: Phone measurement (Complete)

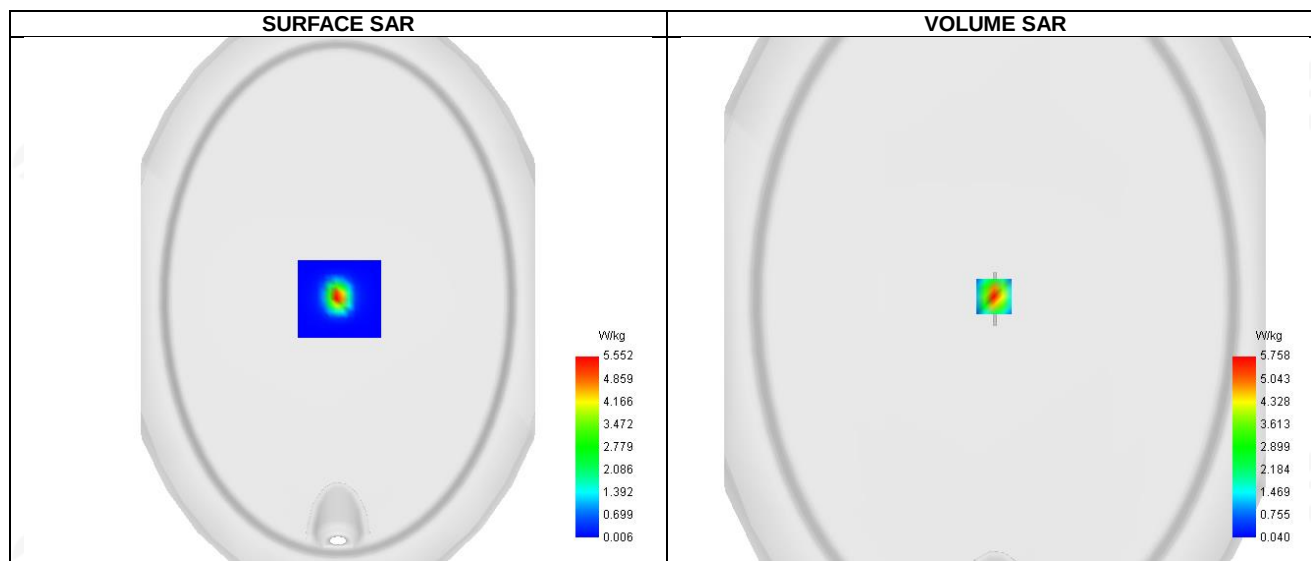
Area scan resolution: dx=8mm,dy=8mm

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

Date of measurement: 2026-05-29

Experimental conditions.

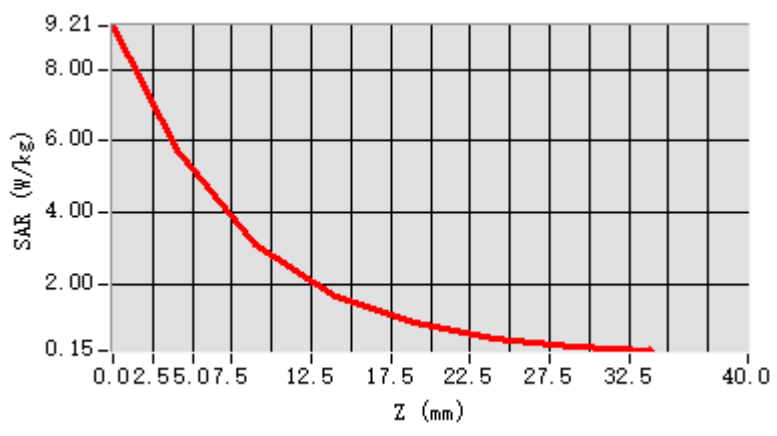
Phantom	Validation plane
Device Position	Dipole
Band	2600MHz
Channels	Middle
Signal	CW
Frequency (MHz)	2600
Relative permittivity	38.39
Conductivity (S/m)	1.96
Probe	SN 08/21 EPGO352
ConvF	1.70
Crest factor:	1:1

**D. SAR 1g & 10g**

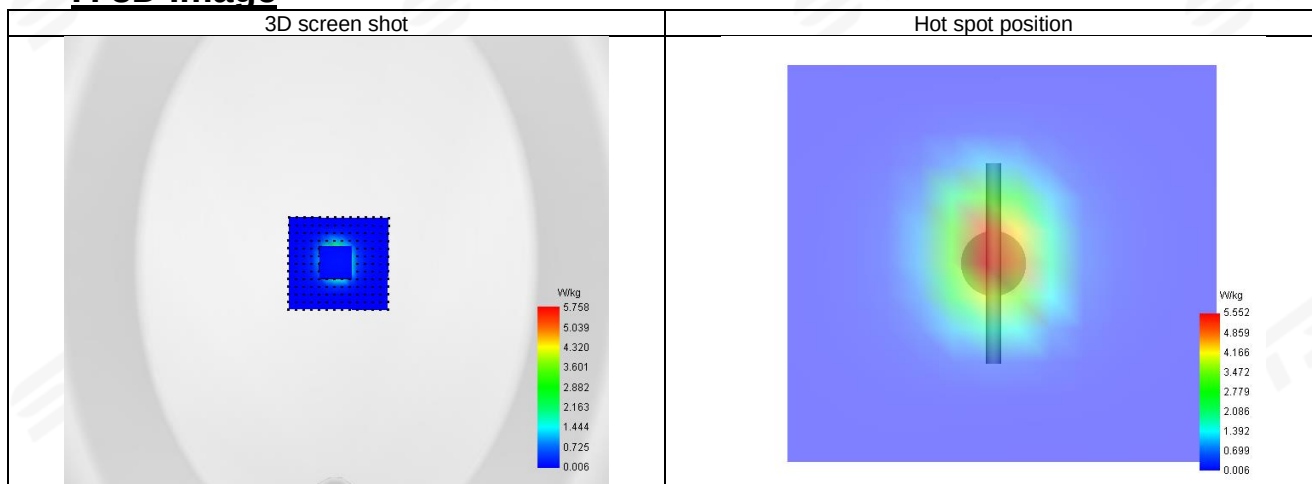
SAR 10g (W/Kg)	2.424
SAR 1g (W/Kg)	5.642
Horizontal validation criteria: minimum distance (mm)	11.313708
Vertical validation criteria: SAR ratio M2/M1 (%)	53.650662

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	9.207	5.758	3.089	1.684	0.912	0.494	0.268



F. 3D Image



**System Performance Check Data (5200MHz)**

Type: Dipole measurement (Complete)

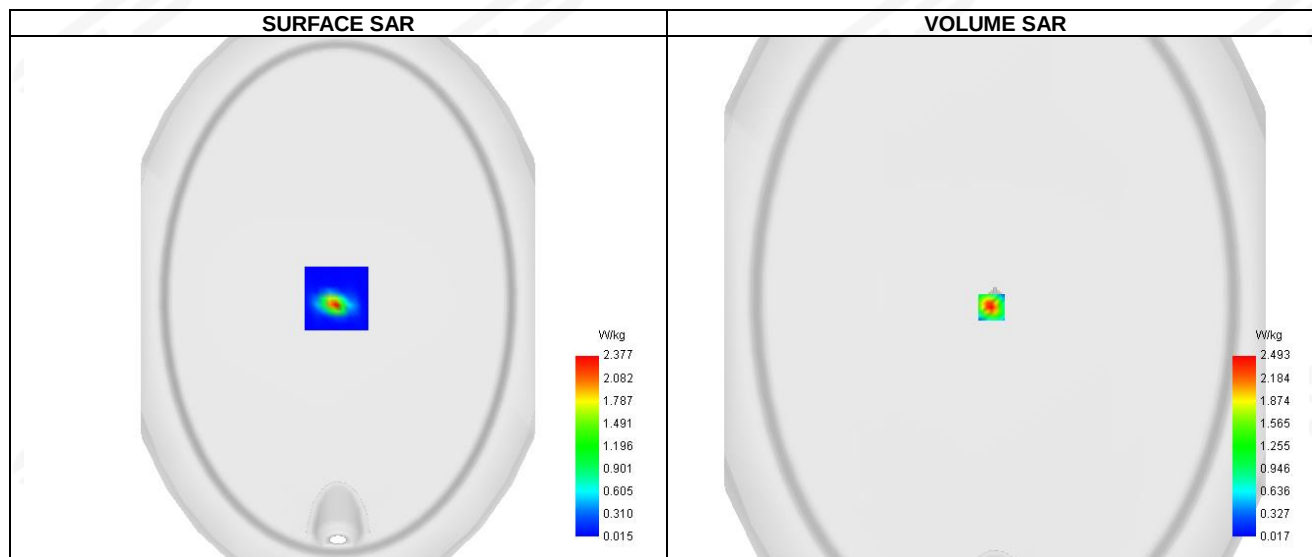
Area scan resolution: dx=8mm,dy=8mm

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

Date of measurement: 2026-05-29

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	5200MHz
Channels	Middle
Signal	CW
Frequency (MHz)	5200
Relative permittivity	36.78
Conductivity (S/m)	4.64
Probe	SN 08/21 EPGO352
ConvF	1.37
Crest factor:	1:1



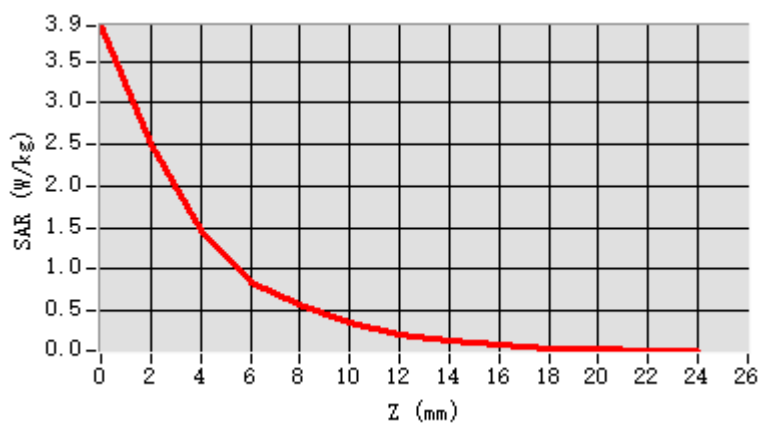
Maximum location: X=-3.00, Y=-8.00 ; SAR Peak: 4.14 W/kg

D. SAR 1g & 10g

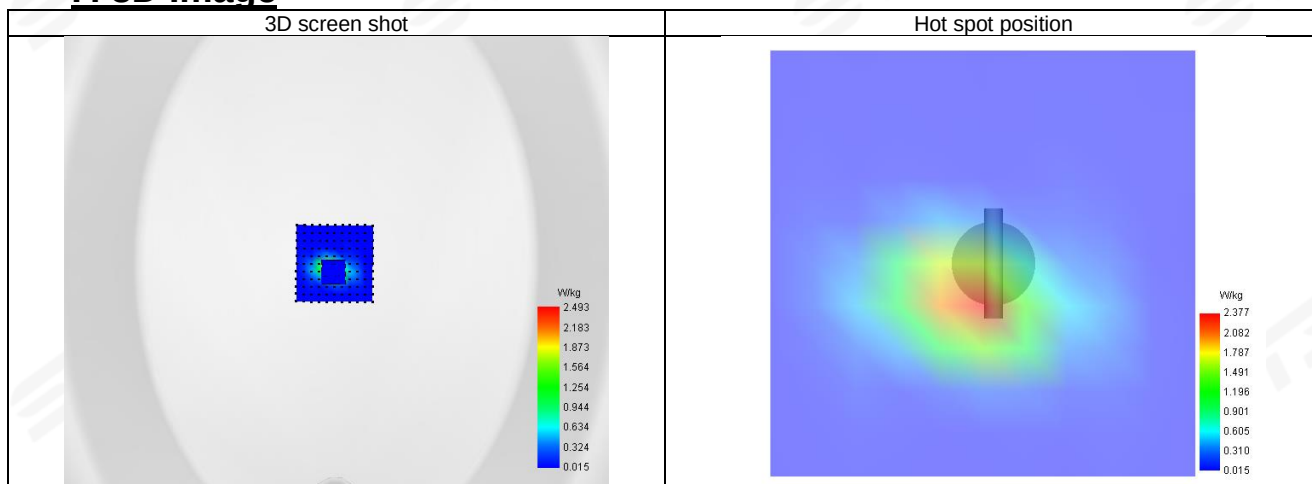
SAR 10g (W/Kg)	0.541
SAR 1g (W/Kg)	1.576
Horizontal validation criteria: minimum distance (mm)	11.313708
Vertical validation criteria: SAR ratio M2/M1 (%)	58.649756

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	24.00
SAR (W/Kg)	3.923	2.493	1.462	0.845	0.579	0.361	0.225	0.140	0.087	0.054	0.034	0.021	0.015



F. 3D Image



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

Type: Dipole measurement (Complete)

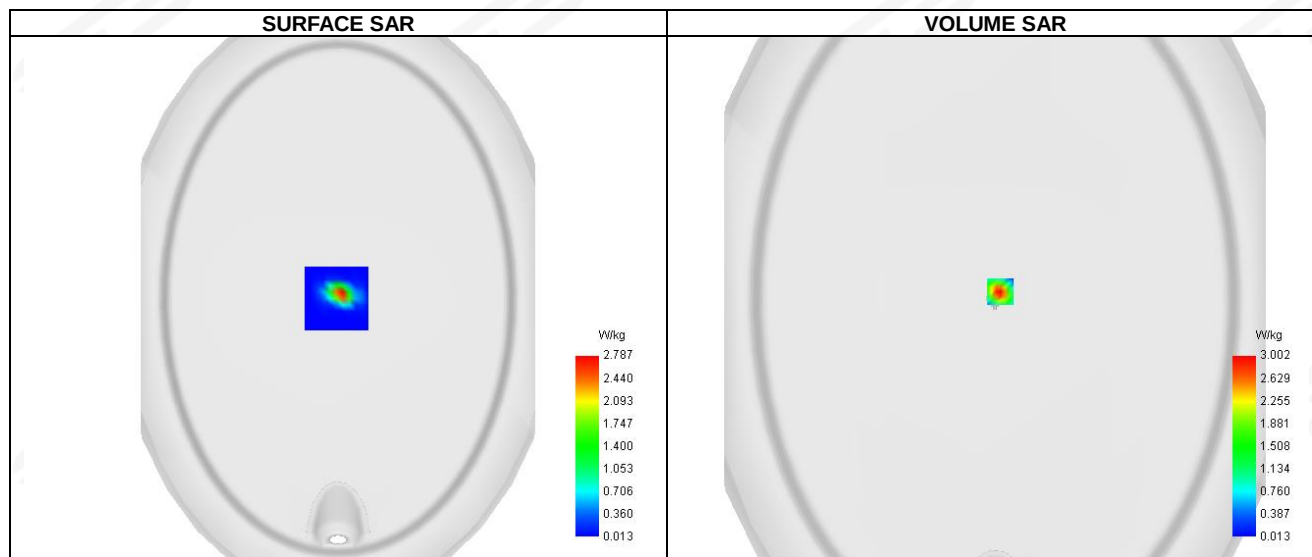
Area scan resolution: dx=8mm,dy=8mm

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

Date of measurement: 2026-05-29

Experimental conditions.

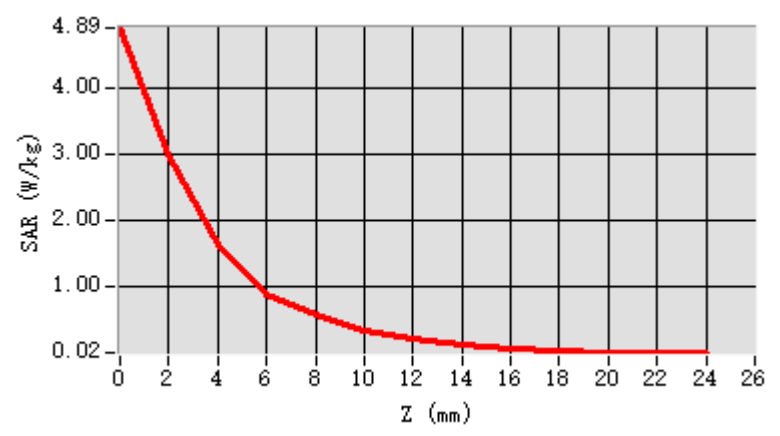
Phantom	Validation plane
Device Position	Dipole
Band	5800MHz
Channels	Middle
Signal	CW
Frequency (MHz)	5800
Relative permittivity	35.49
Conductivity (S/m)	5.28
Probe	SN 08/21 EPGO352
ConvF	1.32
Crest factor:	1:1

**D. SAR 1g & 10g**

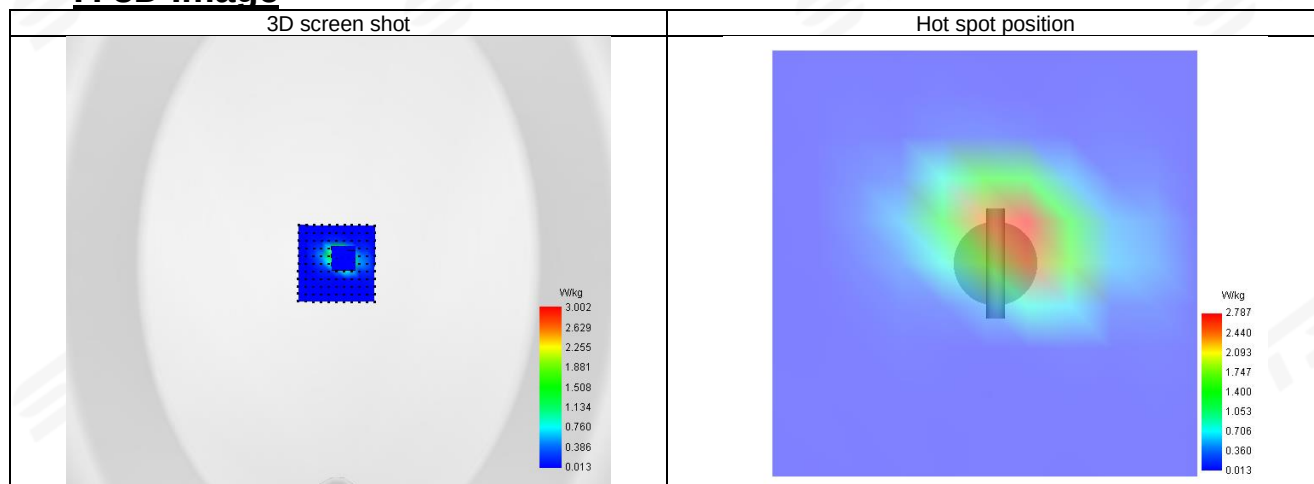
SAR 10g (W/Kg)	0.653
SAR 1g (W/Kg)	1.874
Horizontal validation criteria: minimum distance (mm)	8.944272
Vertical validation criteria: SAR ratio M2/M1 (%)	54.758355

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	24.00
SAR (W/Kg)	4.894	3.002	1.644	0.880	0.603	0.359	0.214	0.127	0.076	0.045	0.027	0.016	0.016



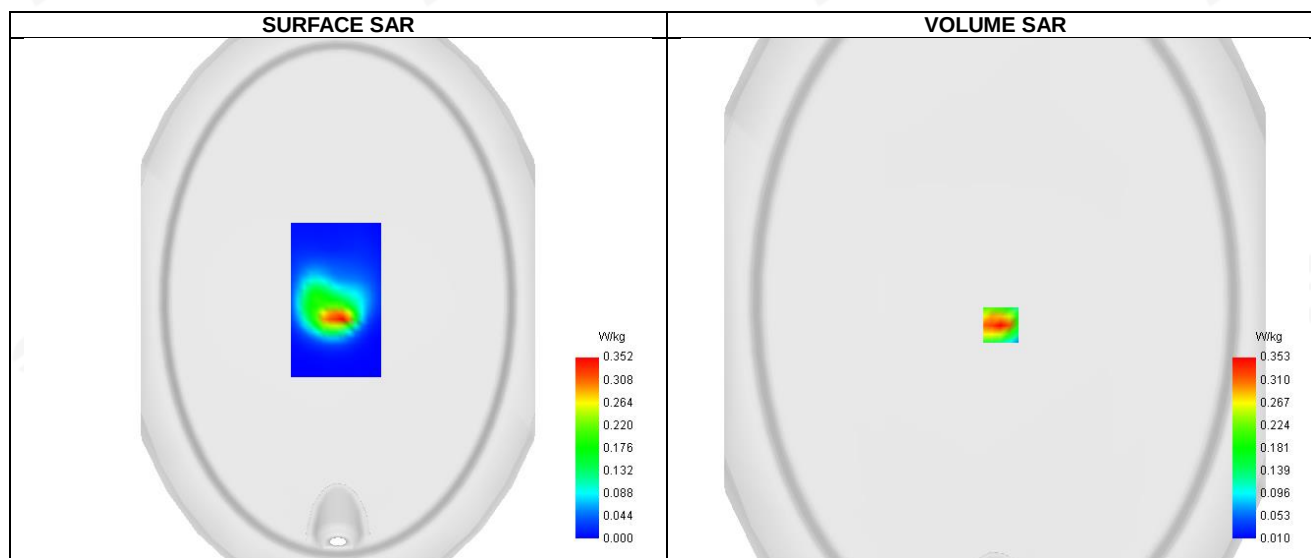
F. 3D Image



Appendix B. SAR Test Plots

Plot 1: DUT: Tablet; EUT Model: Acer One 8 T4-82L-G2

Test Date	2026-05-28
ConvF	1.49
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)	836.6
Relative permittivity (real part)	41.84
Conductivity (S/m)	0.90



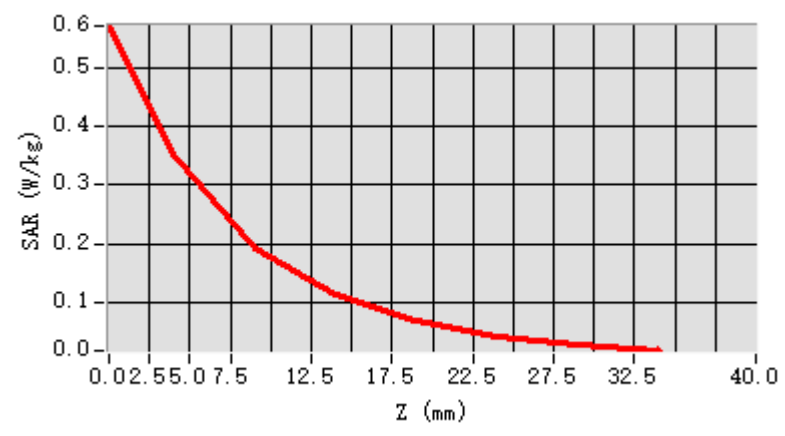
Maximum location: X=5.00, Y=-23.00 ; SAR Peak: 0.58 W/kg

D. SAR 1g & 10g

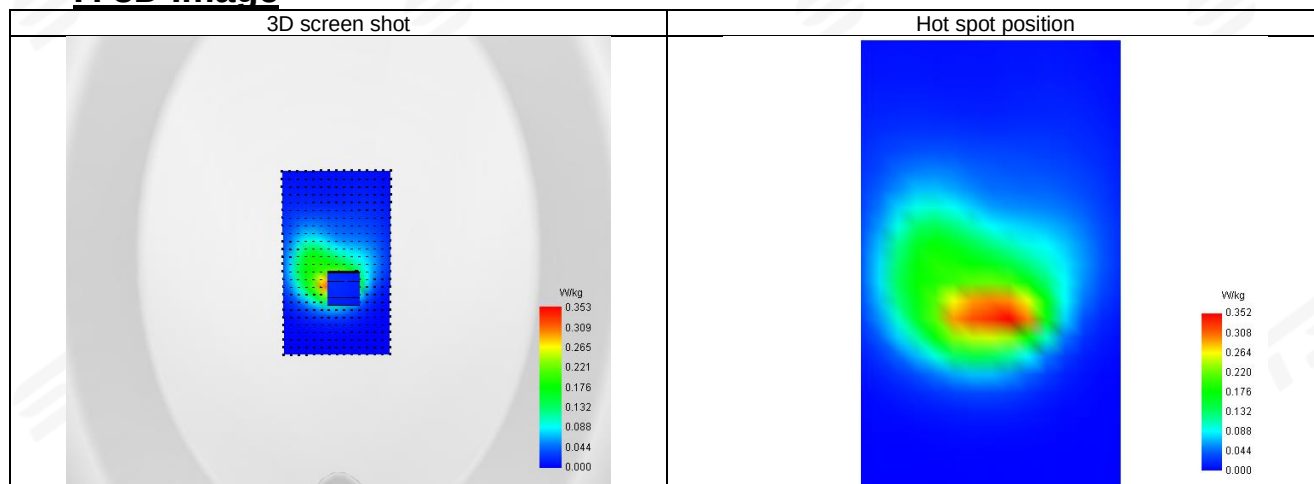
SAR 10g (W/Kg)	0.175
SAR 1g (W/Kg)	0.332
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	53.923597

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.571	0.353	0.190	0.113	0.068	0.043	0.028

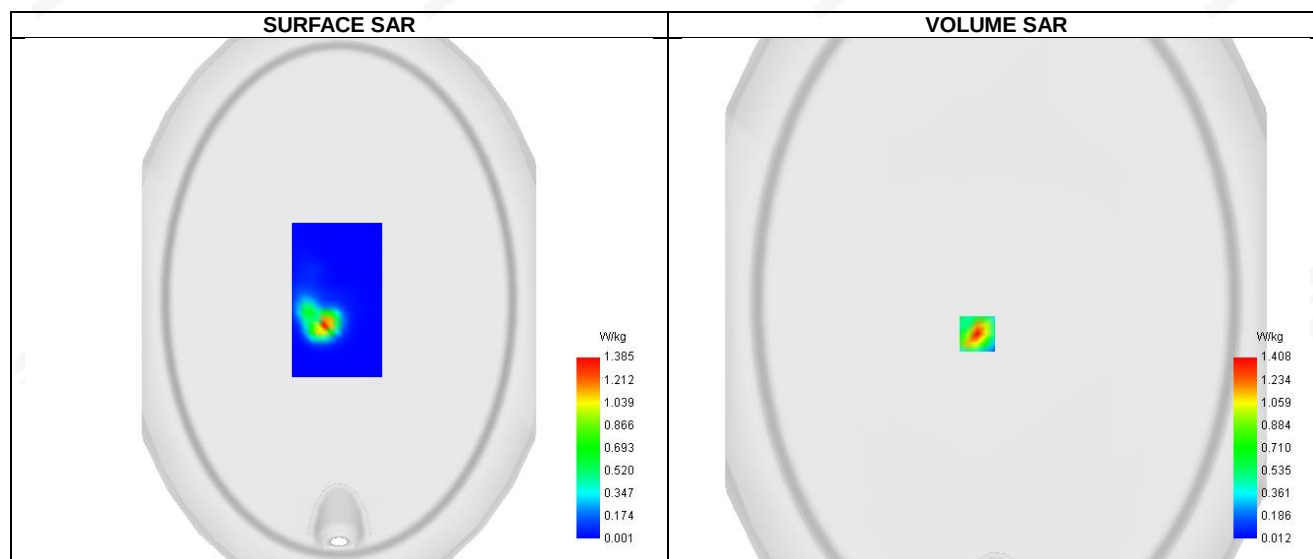


F. 3D Image



**Plot 2: DUT: Tablet; EUT Model: Acer One 8 T4-82L-G2**

Test Date	2026-05-28
ConvF	1.73
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)	40.97
Conductivity (S/m)	1.42



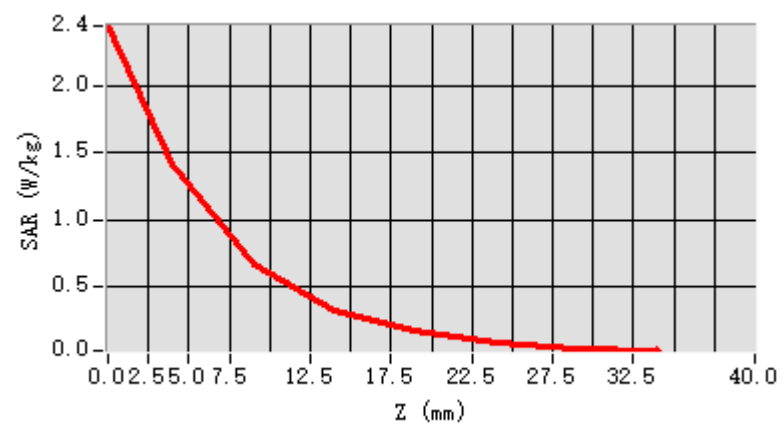
Maximum location: X=-17.00, Y=-31.00 ; SAR Peak: 2.43 W/kg

D. SAR 1g & 10g

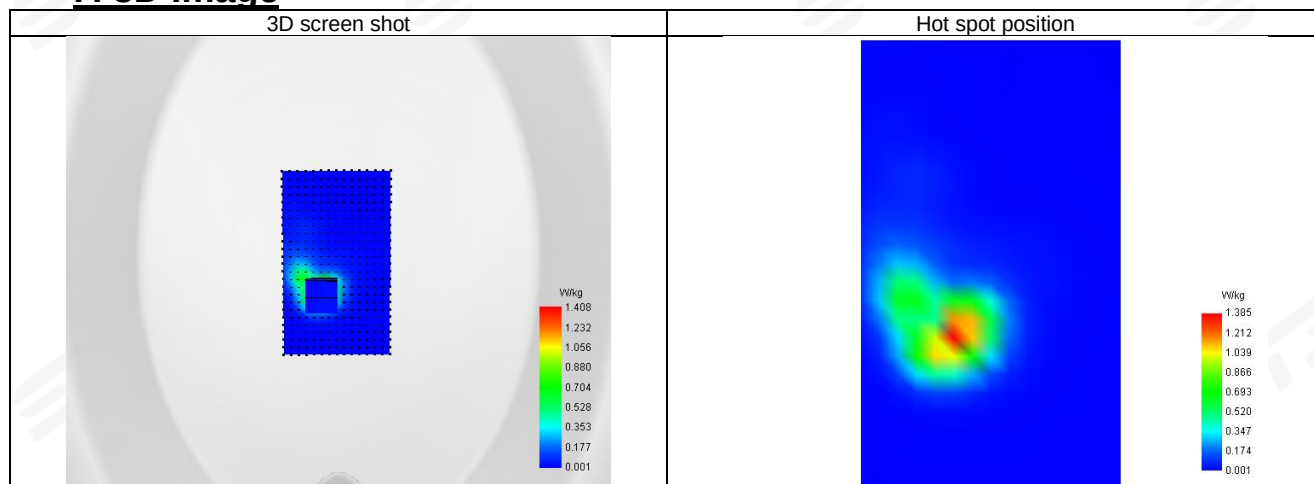
SAR 10g (W/Kg)	0.571
SAR 1g (W/Kg)	1.156
Horizontal validation criteria: minimum distance (mm)	11.313708
Vertical validation criteria: SAR ratio M2/M1 (%)	47.560777

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	2.439	1.408	0.670	0.327	0.174	0.090	0.050

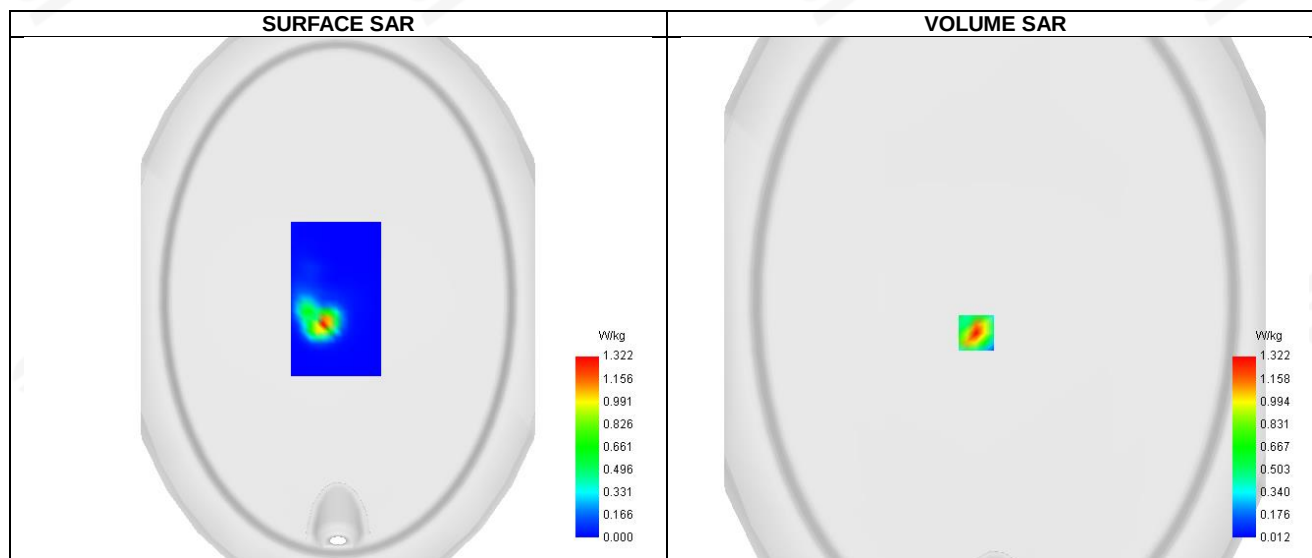


F. 3D Image



**Plot 3: DUT: Tablet; EUT Model: Acer One 8 T4-82L-G2**

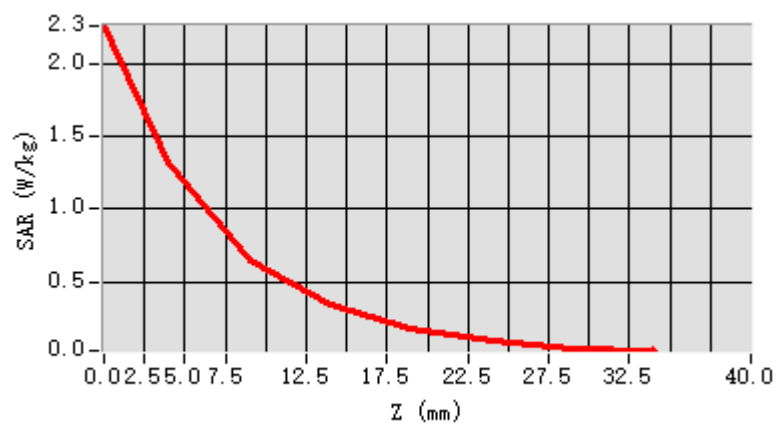
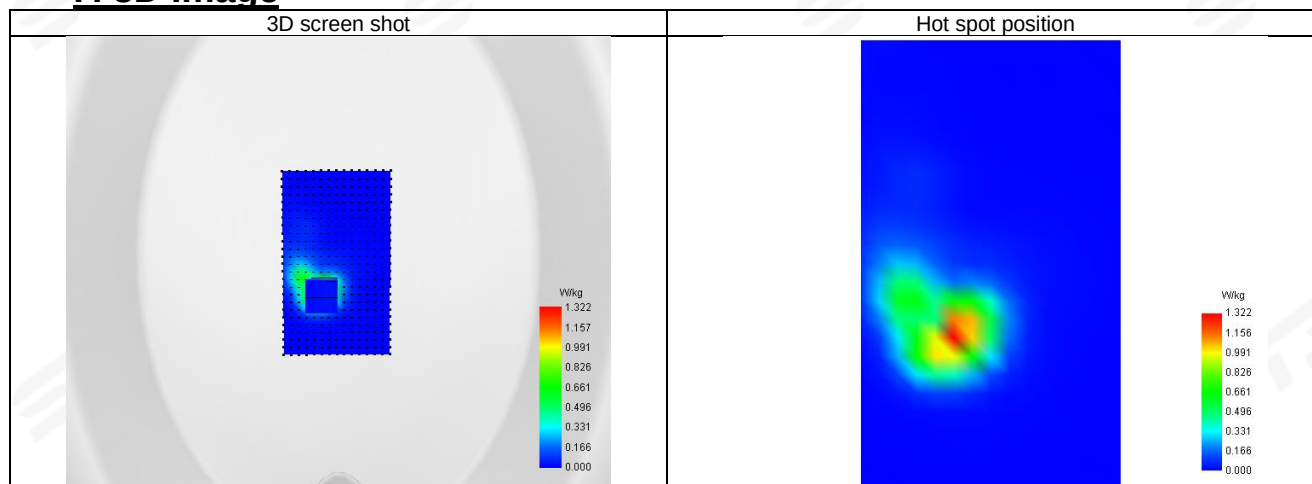
Test Date	2026-05-28
ConvF	1.73
Probe	SN 08/21 EPG0352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	WCDMA II
Signal	WCDMA (Crest factor: 1.0)
Frequency (MHz)	1825.4
Relative permittivity (real part)	40.45
Conductivity (S/m)	1.40

**D. SAR 1g & 10g**

SAR 10g (W/Kg)	0.527
SAR 1g (W/Kg)	1.135
Horizontal validation criteria: minimum distance (mm)	11.313708
Vertical validation criteria: SAR ratio M2/M1 (%)	48.628484

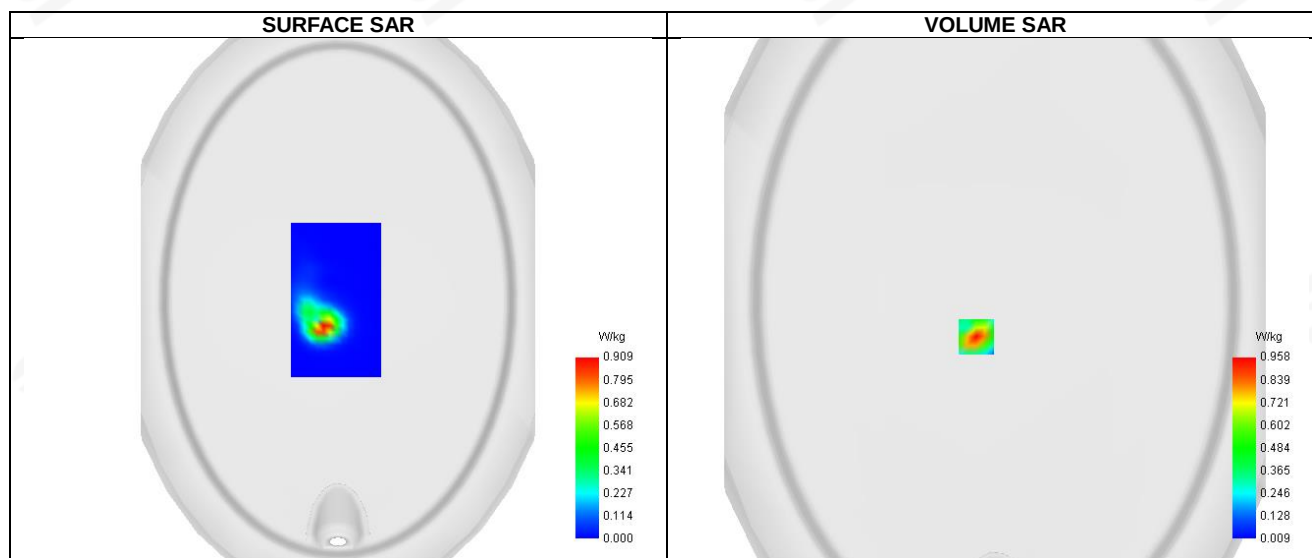
**E. Z Axis Scan**

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	2.260	1.322	0.643	0.345	0.178	0.092	0.047

**F. 3D Image**

Plot 4: DUT: Tablet; EUT Model: Acer One 8 T4-82L-G2

Test Date	2026-05-28
ConvF	1.54
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 IV
Signal	WCDMA (Crest factor: 1.0)
Frequency (MHz)	1712.6
Relative permittivity (real part)	41.07
Conductivity (S/m)	1.36



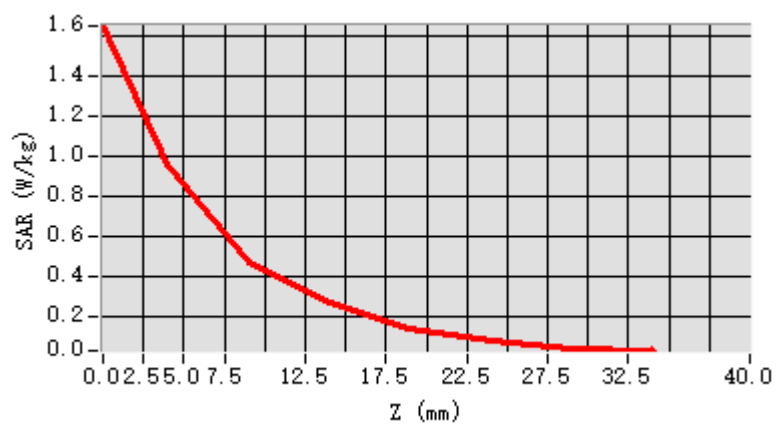
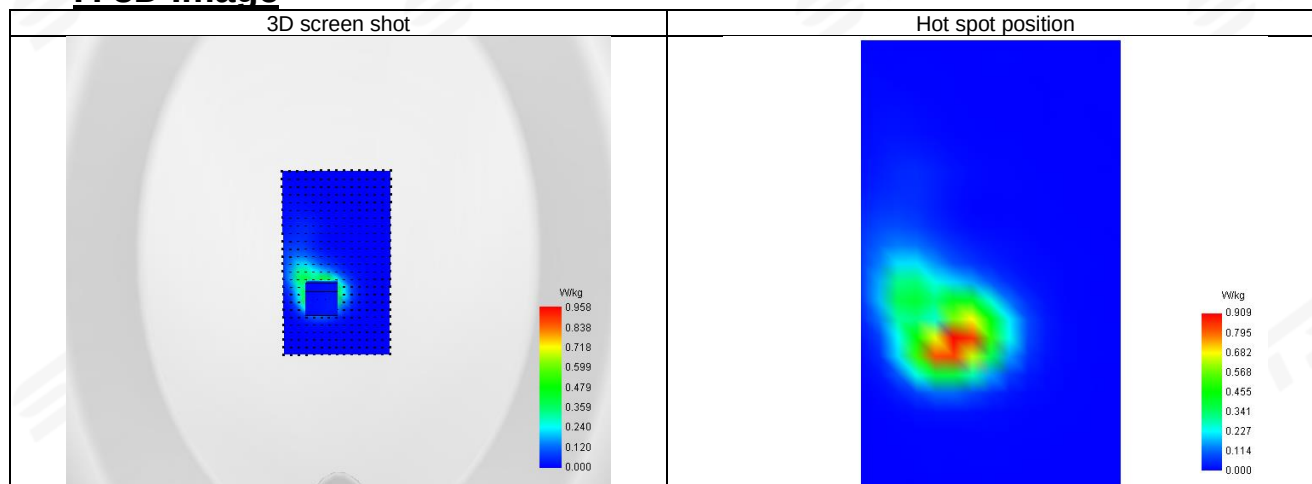
Maximum location: X=-17.00, Y=-33.00 ; SAR Peak: 1.64 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.425
SAR 1g (W/Kg)	0.906
Horizontal validation criteria: minimum distance (mm)	11.313708
Vertical validation criteria: SAR ratio M2/M1 (%)	48.475606

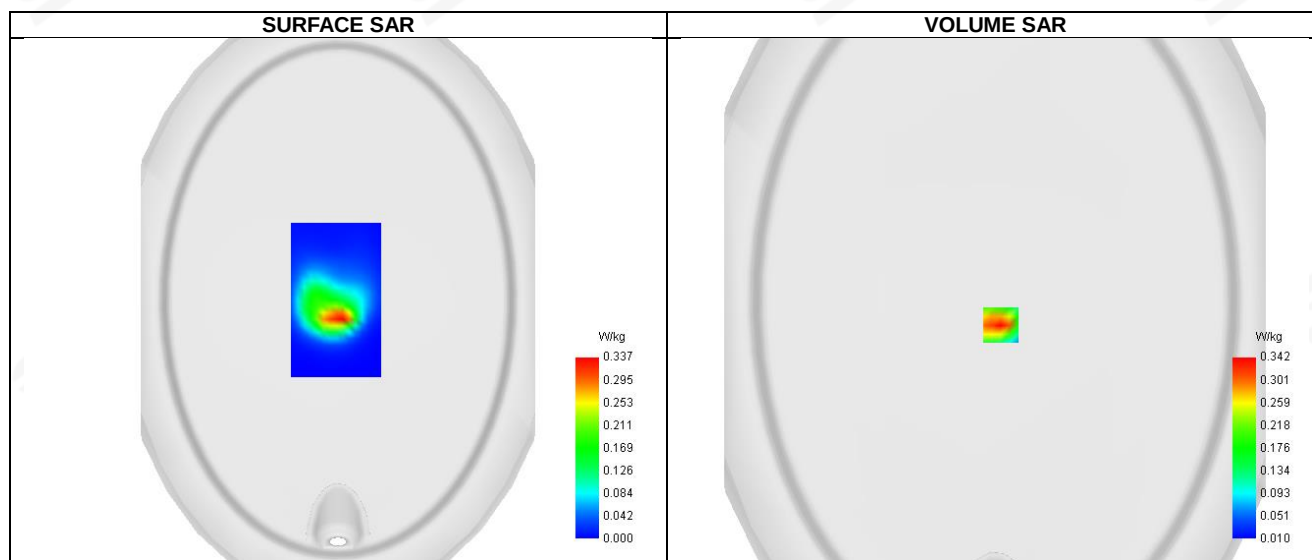
**E. Z Axis Scan**

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.648	0.958	0.464	0.261	0.138	0.073	0.039

**F. 3D Image**

**Plot 5: DUT: Tablet; EUT Model: Acer One 8 T4-82L-G2**

Test Date	2026-05-28
ConvF	1.49
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)	826.4
Relative permittivity (real part)	41.76
Conductivity (S/m)	0.89



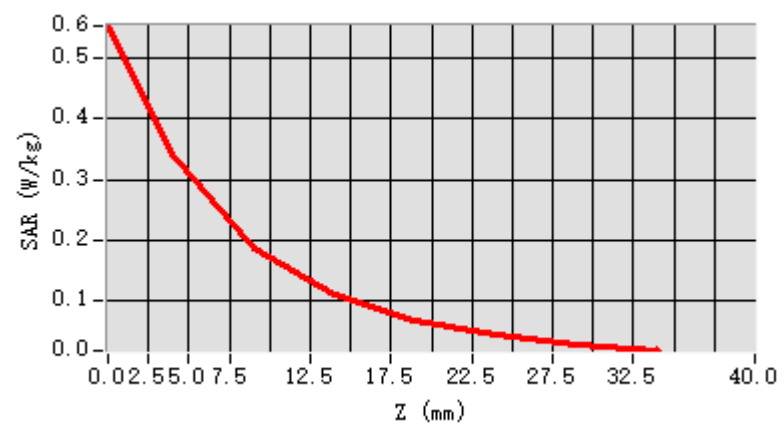
Maximum location: X=5.00, Y=-23.00 ; SAR Peak: 0.56 W/kg

D. SAR 1g & 10g

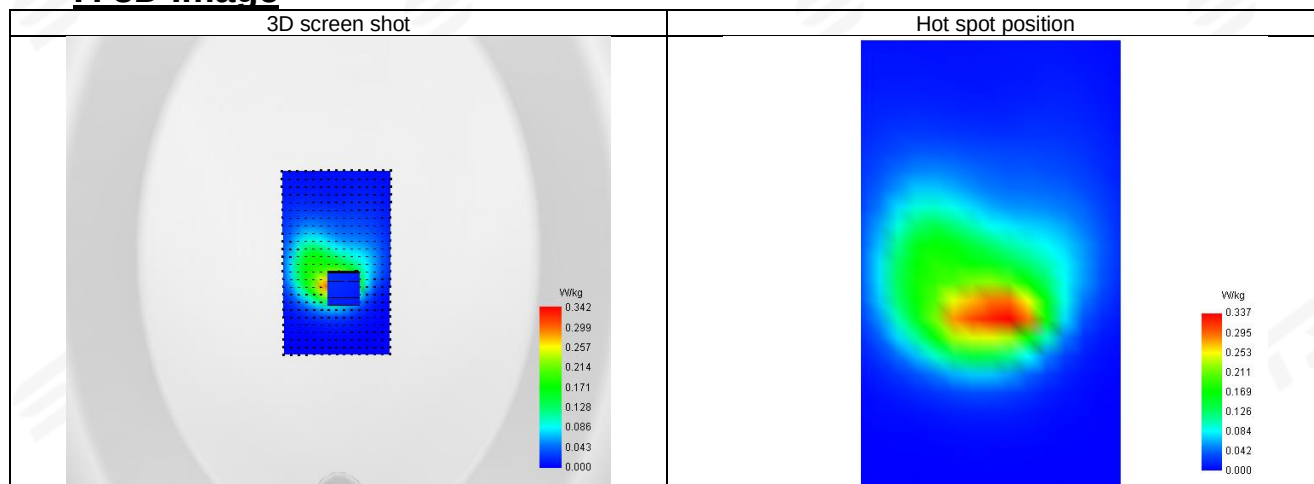
SAR 10g (W/Kg)	0.172
SAR 1g (W/Kg)	0.323
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	55.081237

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.552	0.342	0.186	0.112	0.068	0.043	0.028



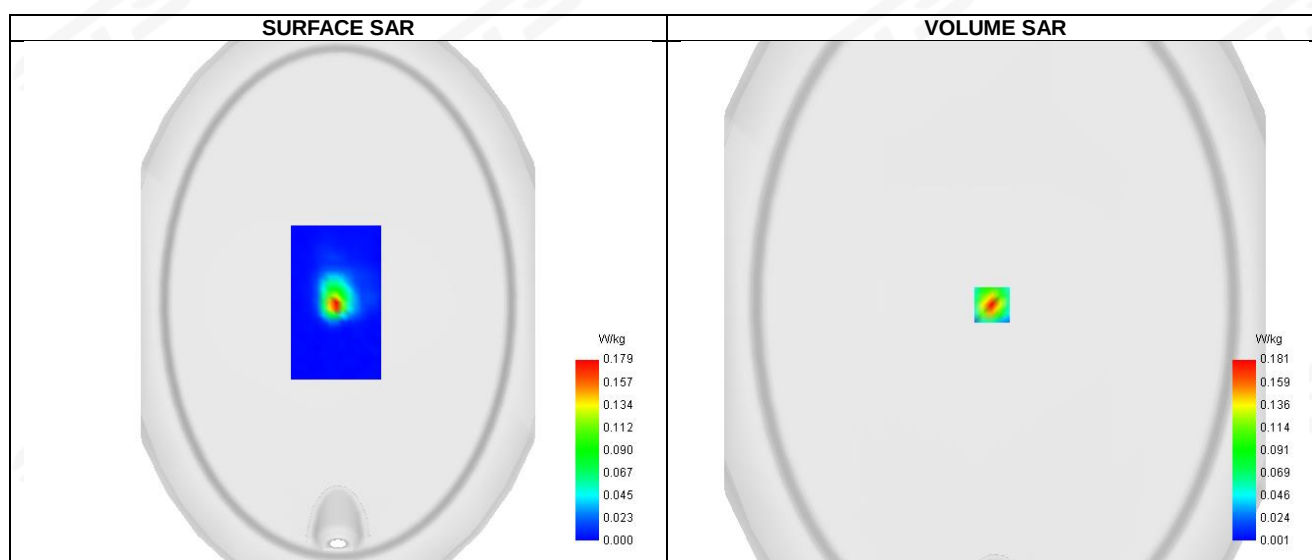
F. 3D Image





Plot 6: DUT: Tablet; EUT Model: Acer One 8 T4-82L-G2

Test Date	2026-05-28
ConvF	1.82
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)	2462
Relative permittivity (real part)	39.80
Conductivity (S/m)	1.79



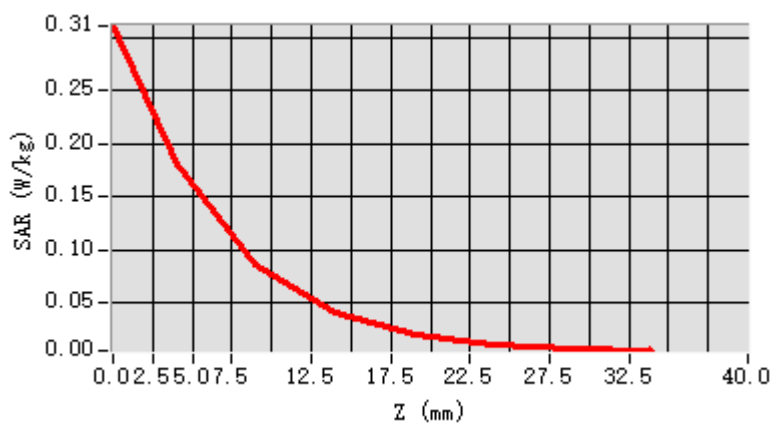
Maximum location: X=-3.00, Y=-2.00 ; SAR Peak: 0.32 W/kg

D. SAR 1g & 10g

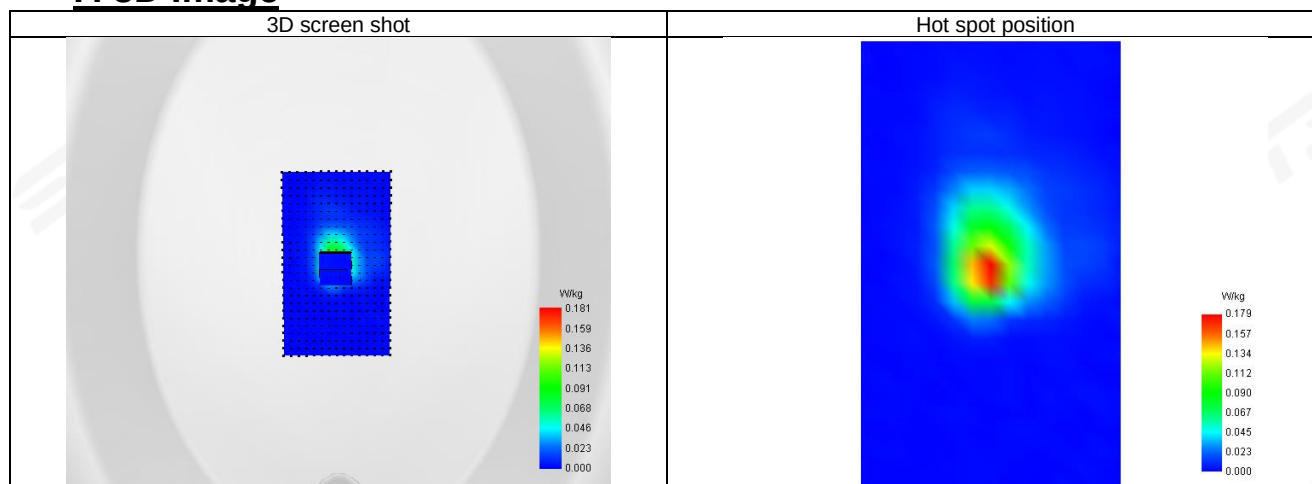
SAR 10g (W/Kg)	0.076
SAR 1g (W/Kg)	0.169
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	47.605342

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.311	0.181	0.086	0.040	0.020	0.011	0.006

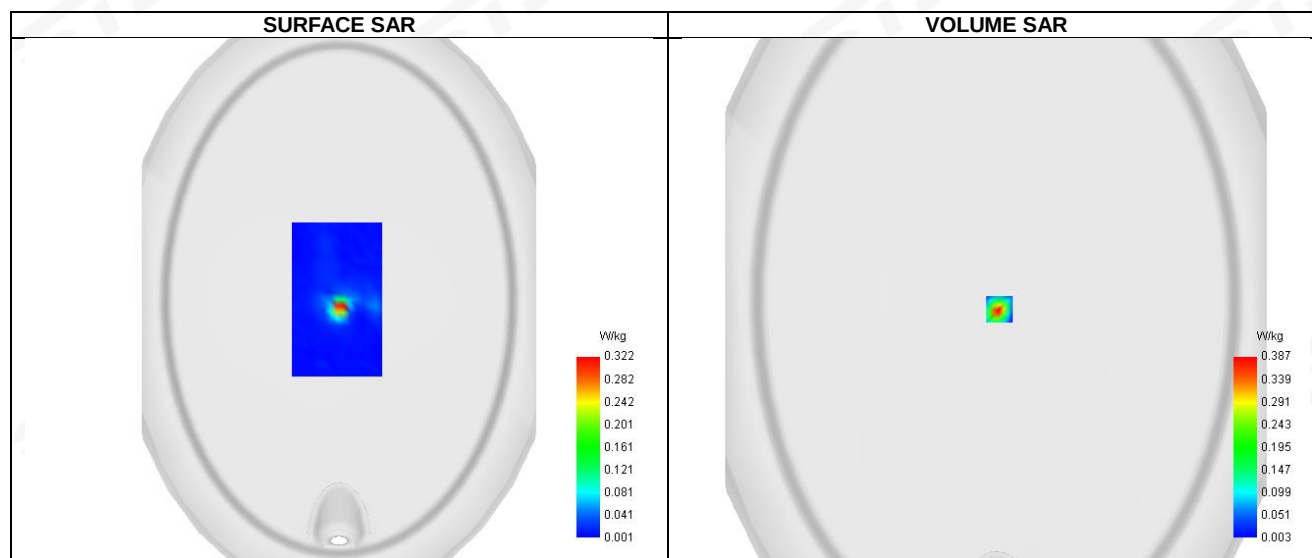


F. 3D Image



**Plot 7: DUT: Tablet; EUT Model: Acer One 8 T4-82L-G2**

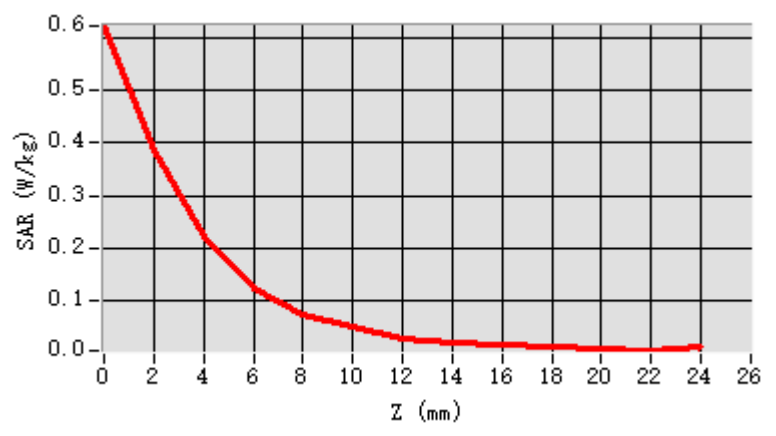
Test Date	2026-05-29
ConvF	1.37
Probe	SN 08/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	7x7x12, dx=4mm, dy=4mm, dz=2mm,
Phantom	Validation plane
Device Position	Back Side
Band	IEEE 802.11a ISM
Signal	IEEE802.a (Crest factor: 1.0)
Frequency (MHz)	5240
Relative permittivity (real part)	37.01
Conductivity (S/m)	4.71

**D. SAR 1g & 10g**

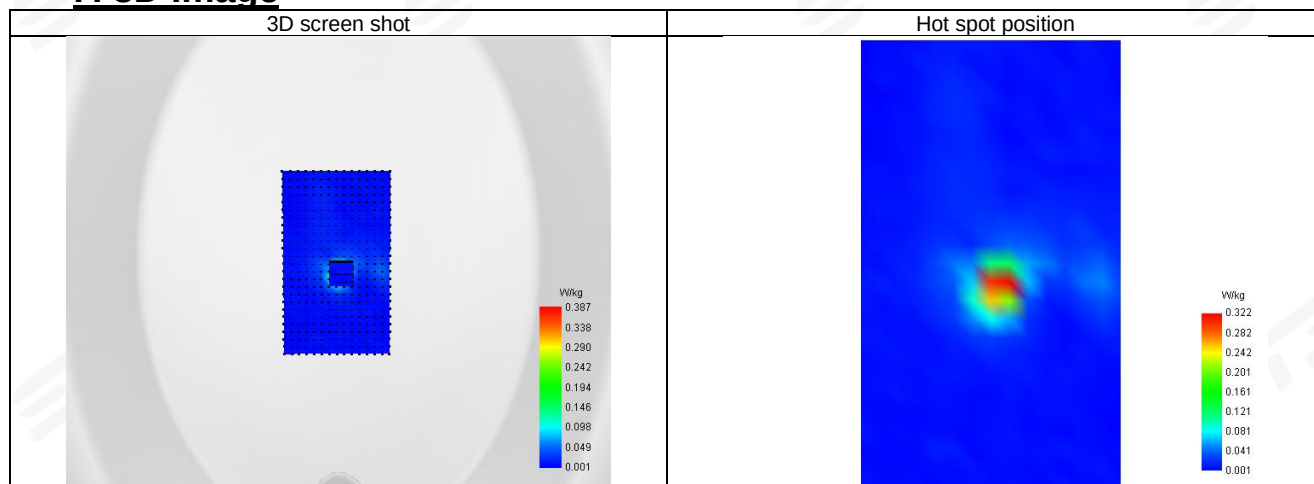
SAR 10g (W/Kg)	0.067
SAR 1g (W/Kg)	0.216
Horizontal validation criteria: minimum distance (mm)	8.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	57.033972

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	24.00
SAR (W/Kg)	0.624	0.387	0.221	0.124	0.074	0.051	0.026	0.018	0.013	0.010	0.007	0.003	0.003

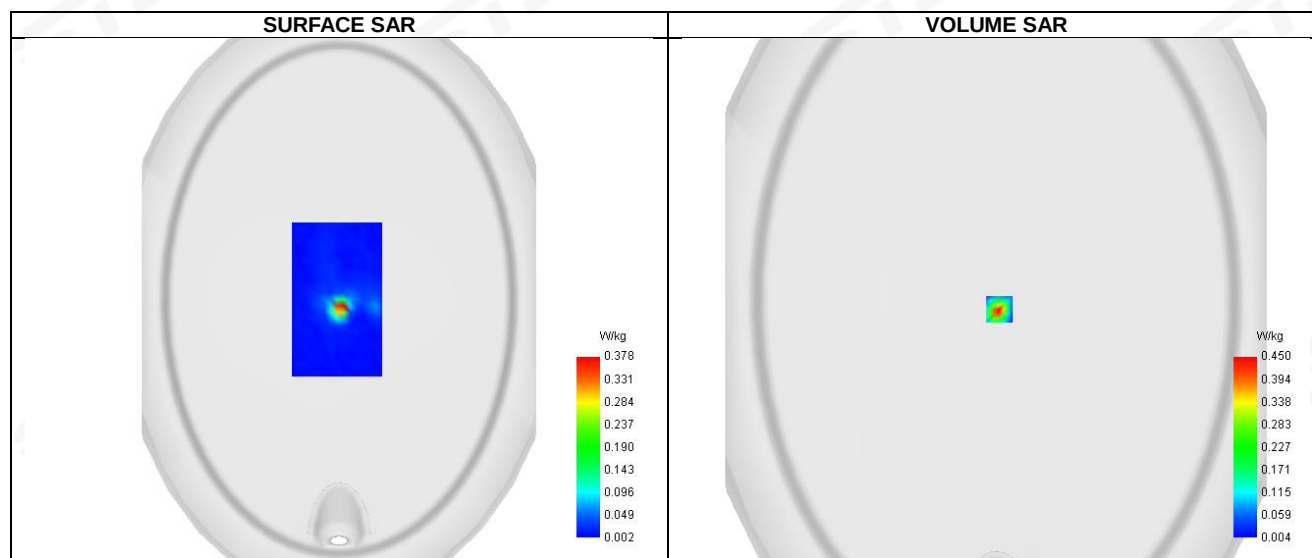


F. 3D Image



**Plot 8: DUT: Tablet; EUT Model: Acer One 8 T4-82L-G2**

Test Date	2026-05-29
ConvF	1.32
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 802.11a ISM
Signal	IEEE802.a (Crest factor: 1.0)
Frequency (MHz)	5825
Relative permittivity (real part)	35.87
Conductivity (S/m)	5.32



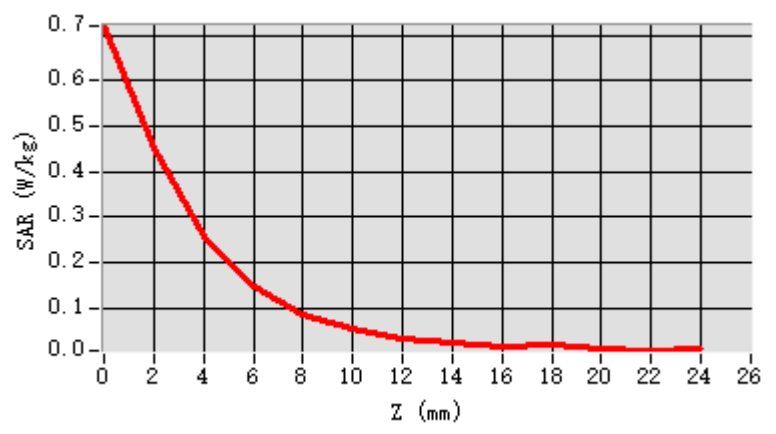
Maximum location: X=3.00, Y=-9.00 ; SAR Peak: 0.76 W/kg

D. SAR 1g & 10g

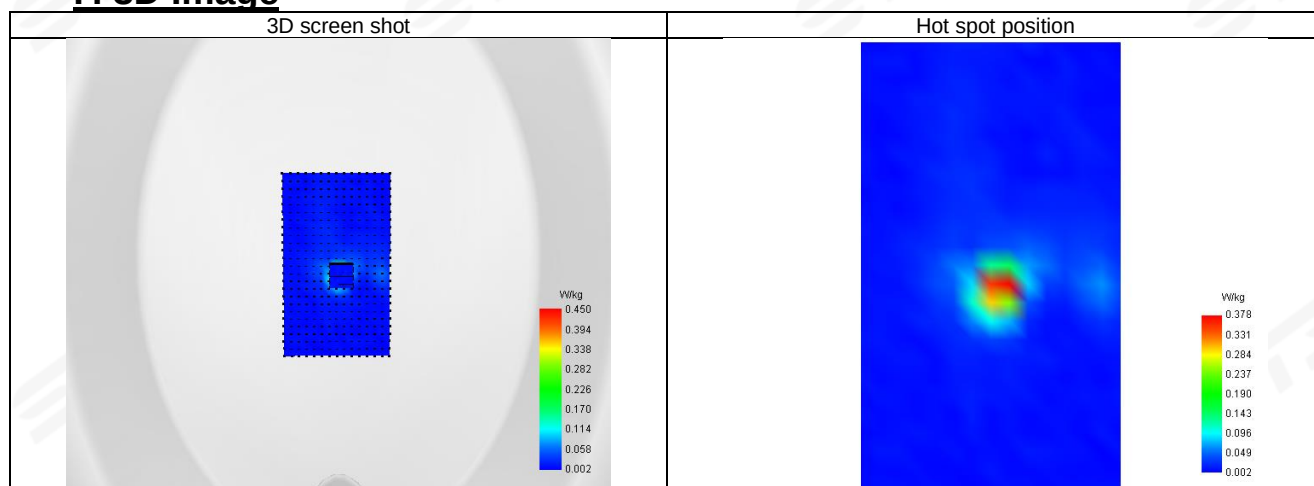
SAR 10g (W/Kg)	0.079
SAR 1g (W/Kg)	0.250
Horizontal validation criteria: minimum distance (mm)	8.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	57.308799

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	24.00
SAR (W/Kg)	0.721	0.450	0.258	0.147	0.087	0.054	0.034	0.022	0.015	0.018	0.012	0.005	0.005

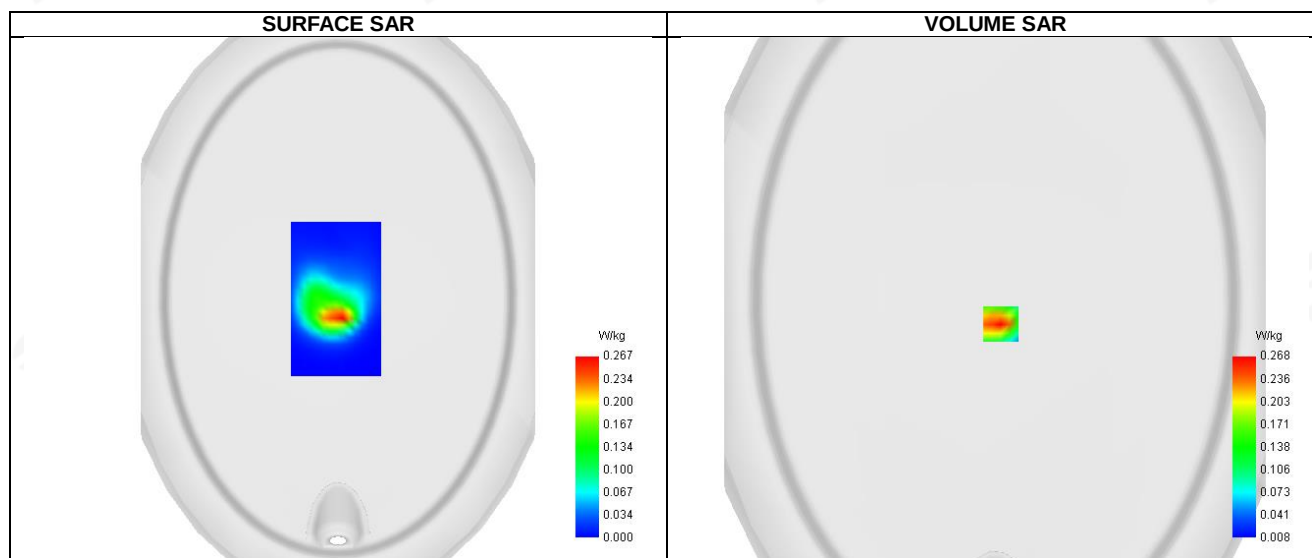


F. 3D Image



Plot 9: DUT: Tablet; EUT Model: Acer One 8 T4-82L-G2

Test Date	2026-05-28
ConvF	1.49
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	LTE Band 5 (RB 1)
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	829
Relative permittivity (real part)	42.04
Conductivity (S/m)	0.91

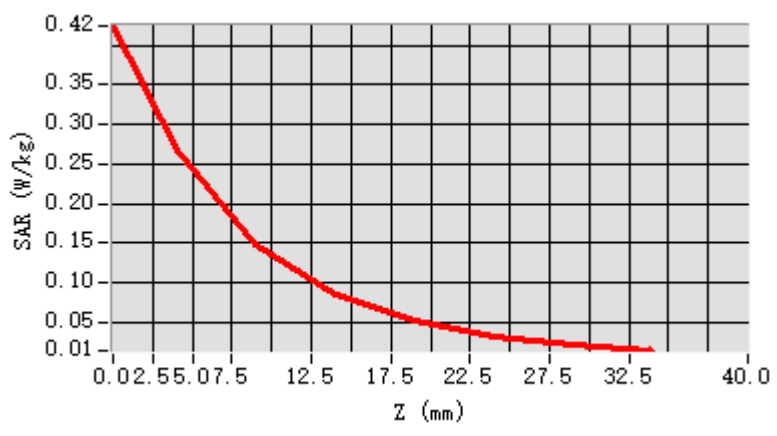


D. SAR 1g & 10g

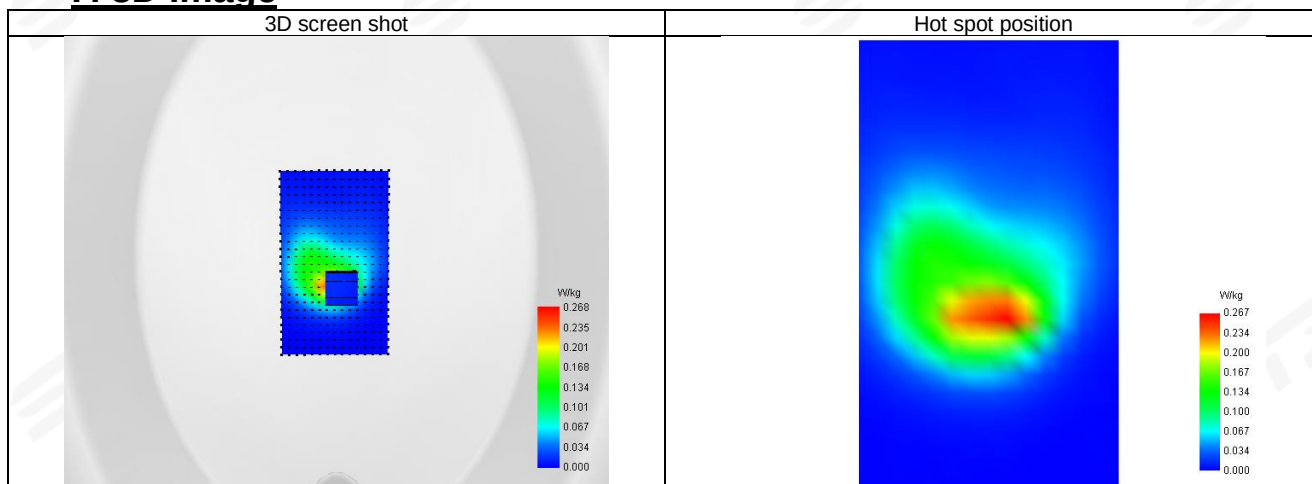
SAR 10g (W/Kg)	0.135
SAR 1g (W/Kg)	0.251
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	55.438457

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.424	0.268	0.149	0.087	0.053	0.033	0.022

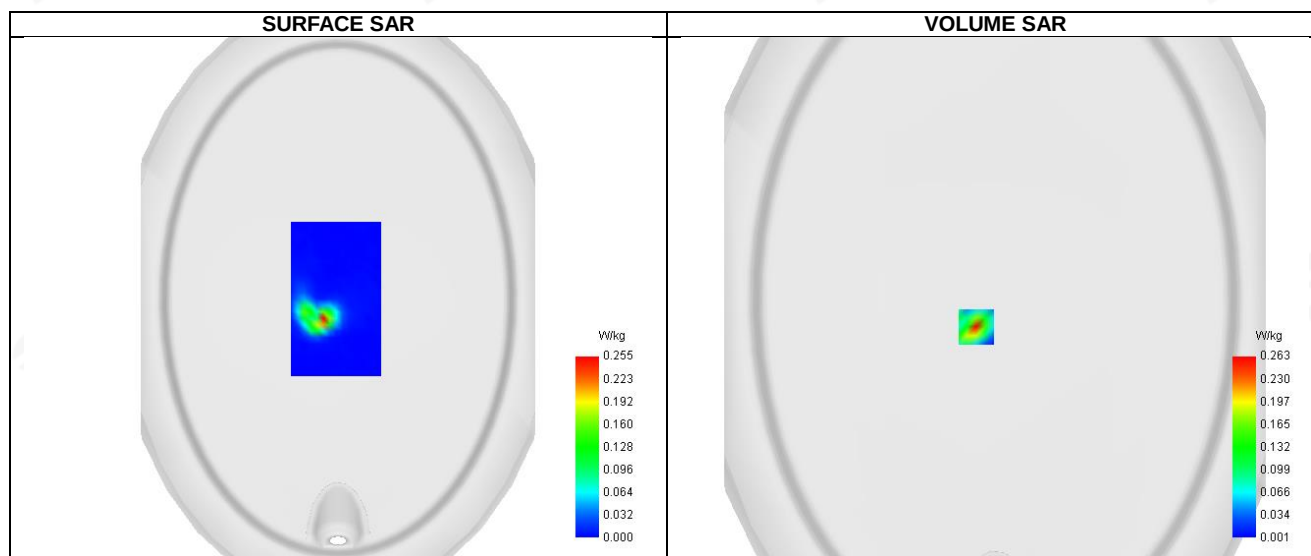


F. 3D Image



**Plot 10: DUT: Tablet; EUT Model: Acer One 8 T4-82L-G2**

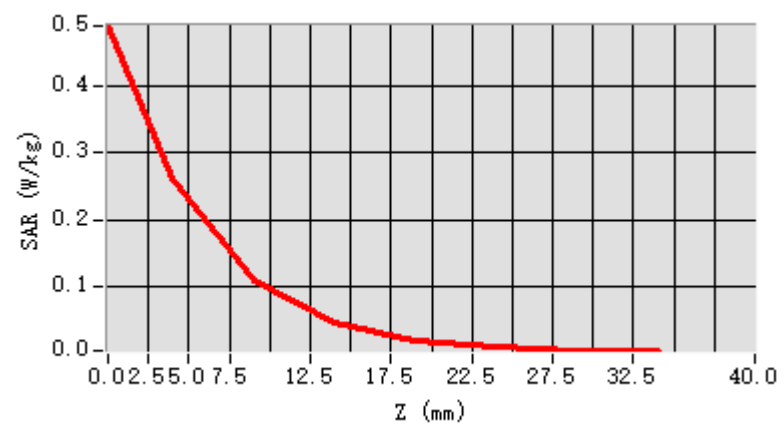
Test Date	2026-05-29
ConvF	1.70
Probe	SN 08/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	LTE Band 41 (RB 1)
Signal	LTE (Cr est factor: 1.0)
Frequency (MHz)	2645
Relative permittivity (real part)	38.51
Conductivity (S/m)	2.00

**D. SAR 1g & 10g**

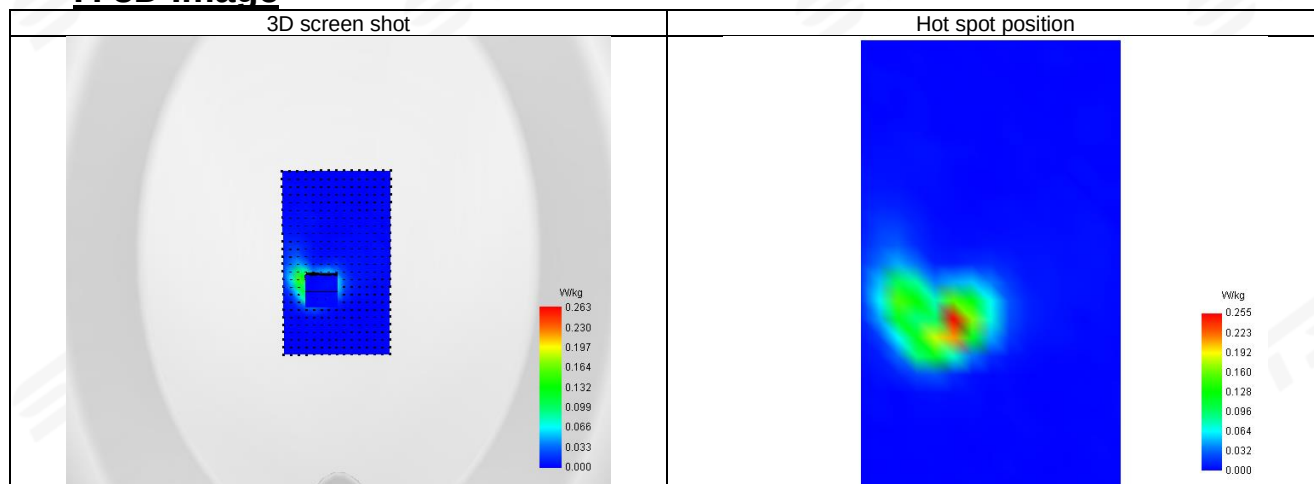
SAR 10g (W/Kg)	0.090
SAR 1g (W/Kg)	0.230
Horizontal validation criteria: minimum distance (mm)	8.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	41.022802

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.490	0.263	0.108	0.046	0.020	0.010	0.005



F. 3D Image





Appendix C. Probe Calibration and Dipole Calibration Report

Refer the appendix Calibration Report.

※※※※END OF THE REPORT※※※※