



SAR TEST REPORT

Product Name: Smart Tablet Computer

Model Number: T30

FCC ID: VTVT30

Issued For : TSC Auto ID Technology Co., Ltd.

9F., No. 95, Minquan Rd., Xindian Dist., New Taipei City,
Taiwan

Issued By : Shenzhen LGT Test Service Co., Ltd.

Room 205, Building 13, Zone B, Zhenxiong Industrial Park,
No.177, Renmin West Road, Jinsha, Kengzi Street,
Pingshan District, Shenzhen, Guangdong, China

Report Number: LGT26G111HA01

Sample Received Date: Jul. 15, 2026

Date of Test Jul. 15, 2026 ~ Aug. 21, 2026

Date of Issue Aug. 21, 2026

Max. SAR (1g) Body: 0.452 W/kg

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Shenzhen LGT Test Service Co., Ltd. Tel: 0755-89668180 E-mail: lgt@lgt-cert.com Web: www.lgt-cert.com
Room 205, Building 13, Zone B, Zhenxiong Industrial Park, No.177, Renmin West Road, Jinsha, Kengzi Street, Pingshan District,
Shenzhen, Guangdong, China



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Revision History

Rev.	Issue Date	Contents
00	Aug. 21, 2026	Initial Issue

Note: FCC ID: VTVT30W1 is the variant from FCC ID: VTVT30. They have the same dimension and share the same PCB layout, antennas and components in Wi-Fi / Bluetooth/ NFC. Only the WWAN module and antenna have been removed, with no other changes. We have verified the worst mode 2.4G WLAN ANT1 and 5.2G WLAN ANT1 SAR and the other test data reuse of FCC ID: VTVT30.



TEST REPORT CERTIFICATION

Applicant TSC Auto ID Technology Co., Ltd.
Address 9F., No. 95, Minquan Rd., Xindian Dist., New Taipei City, Taiwan
Manufacture TSC Auto ID Technology Co., Ltd.
Address 9F., No. 95, Minquan Rd., Xindian Dist., New Taipei City, Taiwan
Product Name Smart Tablet Computer
Trademark 
Model Number T30
Sample number LGT2607125-3

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
ANSI/IEEE Std. C95.1-2019 FCC 47 CFR Part 2 (2.1093) IEEE 1528: 2013	PASS

Prepared by:

Deng Deng

Deng Deng
Engineer

Approved by:

Vita Li

Vita Li
Manager





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	Smart Tablet Computer		
Test Model Number	T30		
Series Number	N/A		
Model Difference	N/A		
Device Category	Portable		
Product stage	Production unit		
RF Exposure Environment	General Population / Uncontrolled		
Hardware Version	1.4		
Software Version	R1.00		
Frequency Range	WLAN	2412~2462 MHz	5150~5250 MHz
		5250~5350 MHz	5470~5725 MHz
		5725~5850 MHz	
	Bluetooth	2402~2480 MHz	
	NFC	13.56MHz	
Max. Reported SAR(1g): (Limit:1.6W/kg)	Mode	Body Worn and Hotspot (W/ kg)	
	2.4G WLAN ANT 1	0.452	
	2.4G WLAN ANT 2	0.446	
	2.4G WLAN MIMO	0.350	
	5.2G WLAN ANT 1	0.447	
	5.2G WLAN ANT 2	0.388	
	5.2G WLAN MIMO	0.385	
	5.3G WLAN ANT 1	0.425	
	5.3G WLAN ANT 2	0.410	
	5.3G WLAN MIMO	0.281	
	5.6G WLAN ANT 1	0.379	
	5.6G WLAN ANT 2	0.262	
	5.6G WLAN MIMO	0.244	
	5.8G WLAN ANT 1	0.420	
	5.8G WLAN ANT 2	0.375	
	5.8G WLAN MIMO	0.386	
	Bluetooth	0.087	
	NFC ^{Note1}	0.000002	
	2.4G WLAN ANT 1 - Spot-check	0.443	
	5.2G WLAN ANT 1- Spot-check	0.415	
1-g Sum SAR		0.539	
Test distance		0mm	
Battery	Capacity: 8020mAh Rated Voltage: 4.48V		
Operating Mode	2.4G WLAN: 802.11b(DSSS): CCK, DQPSK, DBPSK		



	802.11g(OFDM): BPSK, QPSK,16-QAM,64-QAM 802.11n(OFDM): BPSK, QPSK,16-QAM,64-QAM 802.11ax(OFDM): OFDM/ 1024-QAM, OFDM /256-QAM, OFDM /64-QAM, 16-QA, QPSK, BPSK 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 802.11ax(OFDMA): OFDM/ 1024-QAM, OFDM /256-QAM, OFDM /64-QAM, 16-QA, QPSK, BPSK Bluetooth: GFSK + π /4DQPSK+8DPSK BLE: GFSK NFC: ASK
Antenna Specification	Bluetooth: PIFA WLAN: PIFA NFC: Coil
Operating Mode	Maximum continuous output
Hotspot Mode	Support
DTM Mode	Not Support
Note: 1. The NFC value was Estimated. 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

Company Name:	Shenzhen LGT Test Service Co., Ltd.
Address:	Room 205, Building 13, Zone B, Zhenxiong Industrial Park, No.177, Renmin West Road, Jinsha, Kengzi Street, Pingshan District, Shenzhen, Guangdong, China
Accreditation Certificate	FCC Registration No.: 746540
	CAB ID: CN0136



2. Test Standards and Limits

No.	Identity	Document Title
1	47 CFR Part 2	Frequency Allocations and Radio Treaty Matters; General Rules and Regulations
2	ANSI/IEEE Std. C95.1-2019	IEEE Standard for Safety Levels with Respect to Human Exposure to Electric, Magnetic, and Electromagnetic Fields, 0 Hz to 300 GHz
3	IEEE Std. 1528-2013	Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques
4	FCC KDB 447498 D01 v06	Mobile and Portable Device RF Exposure Procedures and Equipment Authorization Policies
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 D06 v02r01	Hotspot Mode SAR
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
10	FCC 616217 D04 SAR for laptop and tablets v01r02	SAR Evaluation Considerations For Laptop, Notebook, Netbook And Tablet Computers
11	FCC KDB 484596 D01 v03	Referencing Test Data

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

<u>Whole-Body</u>	<u>Partial-Body</u>	<u>Hands, Wrists, Feet and Ankles</u>
0.4	8.0	20.0

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

<u>Whole-Body</u>	<u>Partial-Body</u>	<u>Hands, Wrists, Feet and Ankles</u>
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

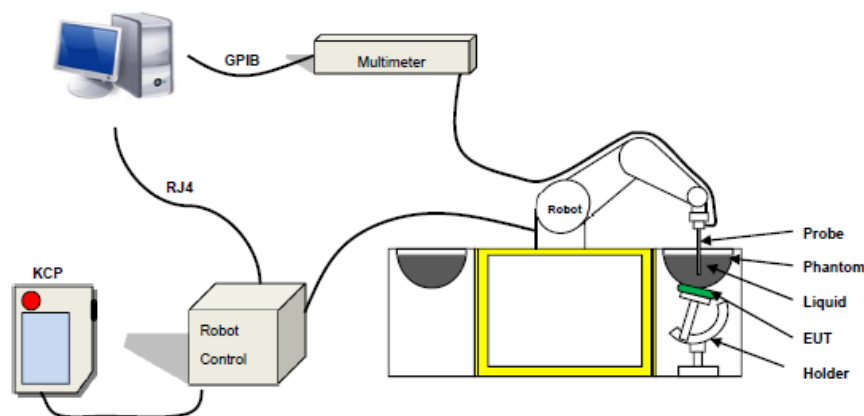
$$SAR = \frac{\sigma E^2}{\rho}$$

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 OpenSAR software computes the results to give a SAR value in a 1g or 1g mass.

3.2.1 Probe

For the measurements the Specific Dosimetric E-Field Probe 0326-EPGO-431 with following specifications is used

- Probe Length: 330 mm
- Length of Individual Dipoles: 2mm
- 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: 0.15 GHz to 7.5 GHz for head simulating liquid.
- Angle between probe axis (evaluation axis) and surface normal line: less than 30°



Figure 1-MVG COMOSAR Dosimetric E field Probe

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.

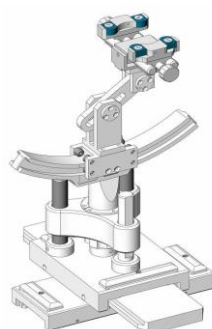


Figure-SN 06/22 SAM 148



Figure-SN 06/22 ELLI 51

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



LIQUID MEASUREMENT RESULTS

Date	Ambient		Simulating Liquid		Parameters	Target	Measured	Deviation %	Limited %
	Temp. [°C]	Humidity %	Frequency (MHz)	Temp. [°C]					
2026-07-17	20.1	58	2412	19.8	Permittivity	39.25	40.19	2.39	±5
					Conductivity	1.76	1.74	-1.11	±5
2026-07-17	20.1	58	2437	19.7	Permittivity	39.22	39.94	1.83	±5
					Conductivity	1.79	1.82	1.76	±5
2026-07-17	20.1	42	2441	19.8	Permittivity	39.21	39.92	1.81	±5
					Conductivity	1.79	1.78	-0.58	±5
2026-07-19	22.1	42	5180	21.8	Permittivity	36.02	37.01	2.75	±5
					Conductivity	4.64	4.59	-1.08	±5
2026-07-19	22	57	5200	21.7	Permittivity	36.00	35.78	-0.61	±5
					Conductivity	4.66	4.67	0.21	±5
2026-07-19	22.1	42	5230	21.8	Permittivity	35.97	36.71	2.06	±5
					Conductivity	4.69	4.67	-0.43	±5
2026-07-19	20.2	57	5260	19.9	Permittivity	35.94	36.06	0.33	±5
					Conductivity	4.72	4.73	0.21	±5
2026-07-19	20.2	40.0	5270	19.9	Permittivity	35.93	36.37	1.22	±5
					Conductivity	4.73	4.77	0.85	±5
2026-07-19	20.2	48	5400	19.9	Permittivity	35.80	37.06	3.52	±5
					Conductivity	4.86	4.88	0.41	±5
2026-07-29	23.3	60	5580	23	Permittivity	35.58	35.47	-0.30	±5
					Conductivity	5.04	5.07	0.51	±5
2026-07-29	23.3	49	5600	23	Permittivity	35.55	36.68	3.18	±5
					Conductivity	5.07	5.12	1.09	±5
2026-07-29	23.4	49	5670	23.1	Permittivity	35.46	35.81	0.98	±5
					Conductivity	5.14	5.20	1.23	±5
2026-07-29	23.4	49	5785	23.1	Permittivity	35.32	35.87	1.56	±5
					Conductivity	5.25	5.24	-0.28	±5
2026-07-29	21.9	55	5800	21.6	Permittivity	35.30	36.53	3.48	±5
					Conductivity	5.27	5.23	-0.76	±5
2026-07-29	21.9	50	5825	21.6	Permittivity	35.28	35.89	1.74	±5
					Conductivity	5.30	5.28	-0.31	±5
2026-08-03	21	41	2412	19.8	Permittivity	39.25	39.30	0.13	±5
					Conductivity	1.76	1.77	0.57	±5
2026-08-03	20.9	41	2437	19.7	Permittivity	39.22	40.43	3.09	±5
					Conductivity	1.79	1.80	0.56	±5
2026-08-03	21	41	2441	19.8	Permittivity	39.21	40.07	2.19	±5
					Conductivity	1.79	1.75	-2.23	±5
2026-08-03	21.1	41	2450	19.8	Permittivity	39.21	39.85	1.63	±5
					Conductivity	1.79	1.83	2.23	±5
2026-08-03	21.0	43	5200	20	Permittivity	36.00	35.66	-0.94	±5
					Conductivity	4.66	4.59	-1.50	±5

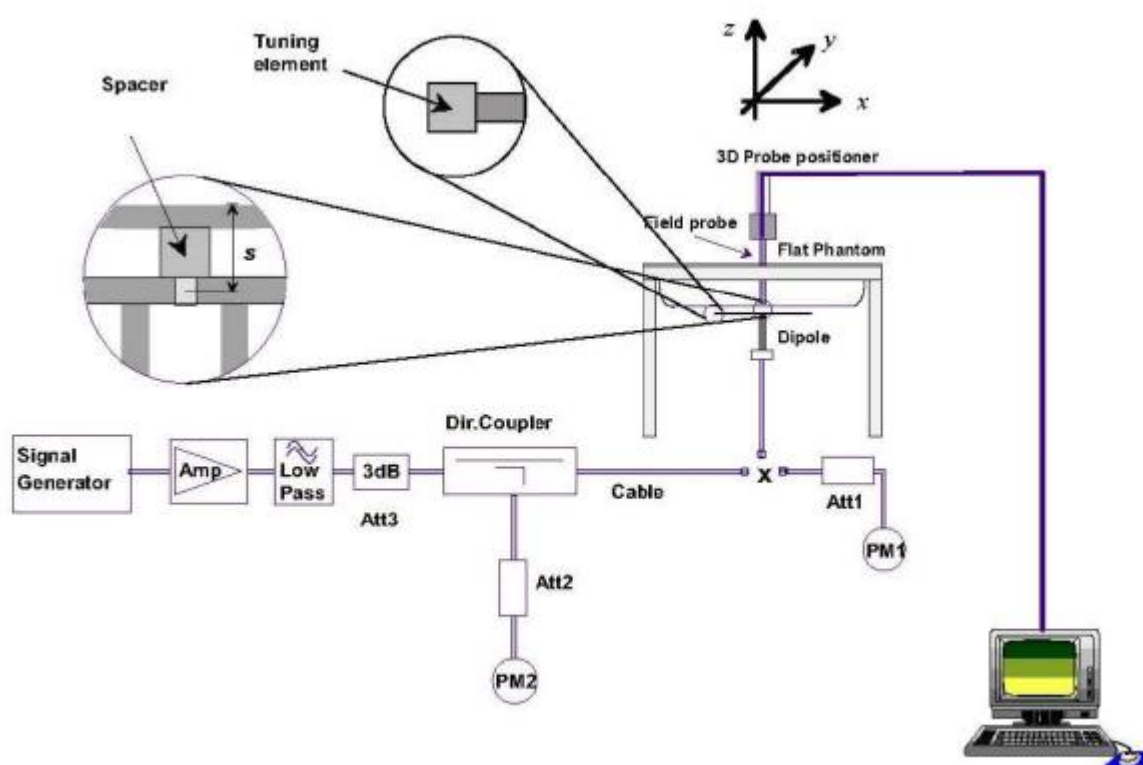


5. SAR System Validation

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 $\pm 10\%$.

Date	Freq.	Power	Power drift	Tested Value	Normalized SAR	Target SAR	Tolerance
	(MHz)	(mW)	(%)	(W/Kg)	(W/kg)	1g(W/kg)	(%)
2026-07-17	2450	100	5.311	53.11	52.98	0.25	10
2026-08-01	2600	100	5.613	56.13	56.15	-0.04	10
2026-07-30	3500	100	6.464	64.64	64.52	0.19	10
2026-07-19	5200	100	7.804	78.04	77.84	0.26	10
2026-07-19	5400	100	7.724	77.24	76.82	0.55	10
2026-07-29	5600	100	8.223	82.23	82.15	0.10	10
2026-07-29	5800	100	8.054	80.54	80.51	0.04	10
2026-08-03	2450	100	5.340	53.40	52.98	0.79	10
2026-08-03	5200	100	7.622	76.22	80.51	-5.33	10

Note:

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



6. SAR Evaluation Procedures

The procedure for assessing the average SAR value consists of the following steps:

The following steps are used for each test position

- Establish a call with the maximum output power with a base station simulator. The connection between the mobile and the base station simulator is established via air interface
- Measurement of the local E-field value at a fixed location. This value serves as a reference value for calculating a possible power drift.
- Measurement of the SAR distribution with a grid of 8 to 16mm * 8 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.

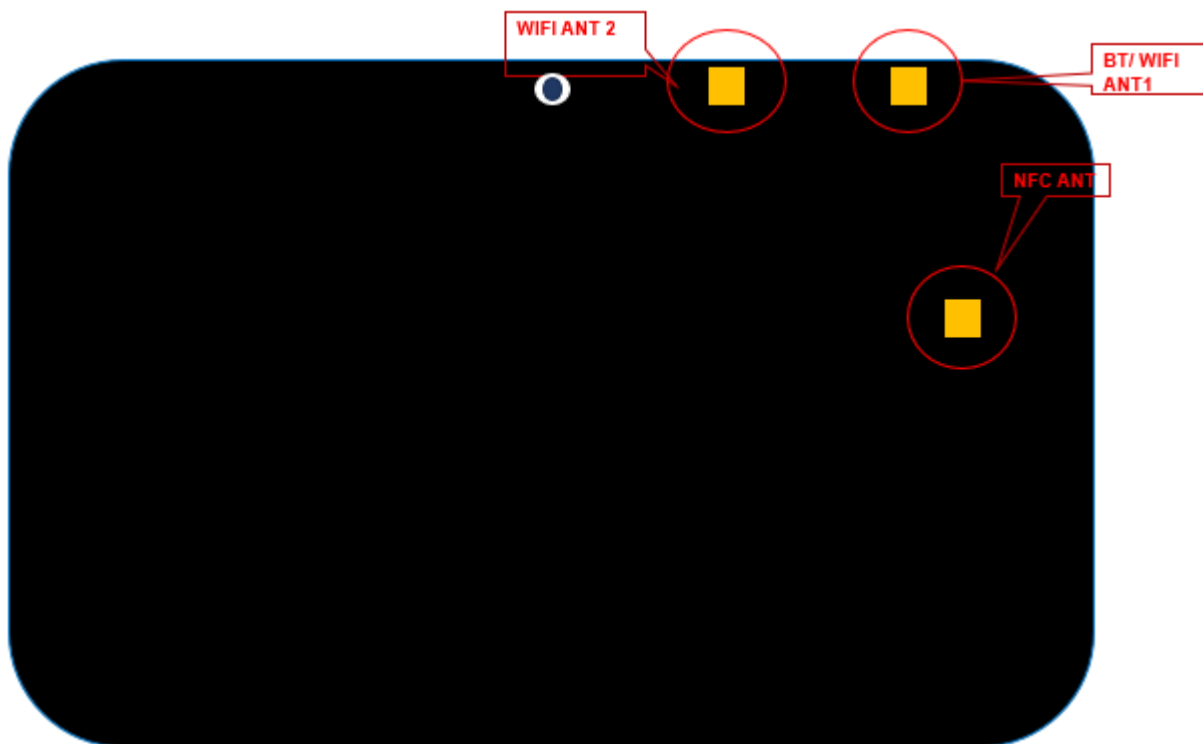
➤ Area Scan& Zoom Scan

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 Smart Tablet Computer, support WLAN/BT mode.



Front view

Antenna Separation Distance(mm)					
ANT	Back Side	Left Side	Right Side	Top Side	Bottom Side
WLAN/BT ANT 1	≤5	215	≤5	≤5	150
WLAN ANT 2	≤5	135	80	≤5	150

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

Exposure Position	Wireless Interface	BT	2.4G WLAN ANT 1	2.4G WLAN ANT 2	5.2G WLAN ANT 1	5.2G WLAN ANT 2
	Calculated Frequency (MHz)	2441	2437	2412	5200	5180
	Maximum Turn-up power (dBm)	10.5	18.5	18.1	15	15
	Maximum rated power(mW)	11.22	70.79	64.57	31.62	31.62
	Separation distance (mm)	5	5	5	5	5
Back Side	exclusion threshold(mW)	9.60	9.61	9.66	6.58	6.59
	Testing required?	YES	YES	YES	YES	YES
Left Edge	Separation distance (mm)	215	215	135	215	135
	exclusion threshold(mW)	1746.01	1746.09	946.58	1715.78	915.91
	Testing required?	NO	NO	NO	NO	NO
Right Edge	Separation distance (mm)	5	5	80	5	80
	exclusion threshold(mW)	9.60	9.61	396.58	6.58	365.91
	Testing required?	YES	YES	NO	YES	NO
Top Edge	Separation distance (mm)	5	5	5	5	5
	exclusion threshold(mW)	9.60	9.61	9.66	6.58	6.59
	Testing required?	YES	YES	YES	YES	YES
Bottom Edge	Separation distance (mm)	150	150	150	150	150
	exclusion threshold(mW)	1096.01	1096.09	1096.58	1065.78	1065.91
	Testing required?	NO	NO	NO	NO	NO



Exposure Position	Wireless Interface	5.3G WLAN ANT 1	5.3G WLAN ANT 2	5.6G WLAN ANT 1	5.6G WLAN ANT 2	5.8G WLAN ANT 1	5.8G WLAN ANT 2
	Calculated Frequency (MHz)	5260	5260	5580	5580	5825	5785
	Maximum Turn-up power (dBm)	14.5	14.6	15	15.5	14	14.5
	Maximum rated power(mW)	28.18	28.84	31.62	35.48	25.12	28.18
Back Side	Separation distance (mm)	5	5	5	5	5	5
	exclusion threshold(mW)	6.54	6.54	6.35	6.35	6.22	6.24
	Testing required?	YES	YES	YES	YES	YES	YES
Left Edge	Separation distance (mm)	215	135	215	135	215	135
	exclusion threshold(mW)	1715.40	915.40	1713.50	913.50	1712.15	912.36
	Testing required?	NO	NO	NO	NO	NO	NO
Right Edge	Separation distance (mm)	5	80	5	80	5	80
	exclusion threshold(mW)	6.54	365.40	6.35	363.50	6.22	362.36
	Testing required?	YES	NO	YES	NO	YES	NO
Top Edge	Separation distance (mm)	5	5	5	5	5	5
	exclusion threshold(mW)	6.54	6.54	6.35	6.35	6.22	6.24
	Testing required?	YES	YES	YES	YES	YES	YES
Bottom Edge	Separation distance (mm)	150	150	150	150	150	150
	exclusion threshold(mW)	1065.40	1065.40	1063.50	1063.50	1062.15	1062.36
	Testing required?	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 D01, 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, standalone SAR test exclusion threshold is applied; if the distance of the antenna to the user is <25mm, 25mm is user to determine SAR exclusion threshold
4. per KDB 447498 D01, the 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distance $\leq 50\text{mm}$ are determined by:
$$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] * [\sqrt{f(\text{GHz})}] \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR, } f(\text{GHz}) \text{ is the RF channel transmit frequency in GHz. Power and distance are rounded to the nearest mW and mm before calculation.}$$

The result is rounded to one decimal place for comparison

For <50mm distance, we just calculate mW of the exclusion threshold value(3.0) to do compare
5. per KDB 447498 D01, at 100 MHz to 6GHz and for test separation distances >50mm, the SAR test exclusion threshold is determined according to the following
 - a) [threshold at 50mm in step 1] + (test separation distance - 50mm) * (f (MHz)/150)]mW, at 100 MHz to 1500 MHz
 - b) [threshold at 50mm in step1] + (test separation distance - 50mm) * 10]mW at > 1500MHz and $\leq 6\text{GHz}$
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 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.

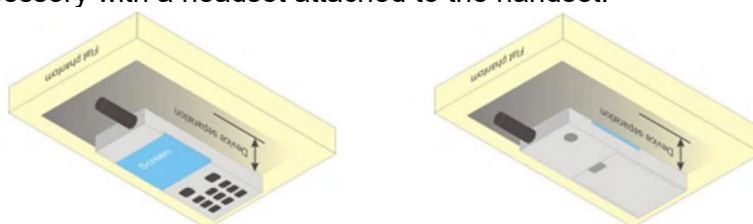


8. EUT Test Position

This EUT was tested in Front Face and Rear Face.

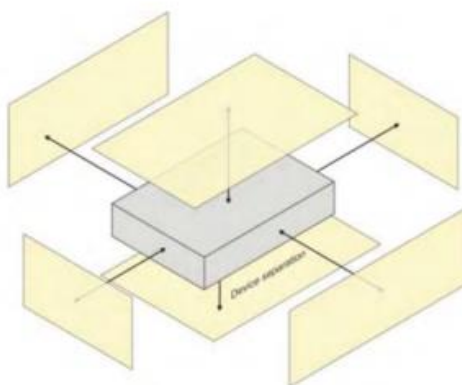
8.1 Body-worn Position Conditions

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



8.2 Hotspot mode exposure position condition

For handsets that support hotspot mode operations, with wireless router capabilities and various web browsing function, the relevant hand and body exposure condition are tested according to the hotspot SAR procedures in KDB 941225. A test separation distance of 10 mm is required between the phantom and all surface and edges with a transmitting antenna located within 25 mm from that surface or edge. When form factor of a handset is smaller than 9cm x 5cm, a test separation distance of 5mm (instead of 10mm) is required for testing hotspot mode. When the separate distance required for body-worn accessory testing is larger than or equal to that tested for hotspot mode, in the same wireless mode and for the same surface of the phone, the hotspot mode SAR data may be used to support body-worn accessory SAR compliance for that particular configuration (surface).





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 $k=2$.

Uncertainty Component	Tol (+/- %)	Prob. Dist.	Div.	Ci (1g)	Ci (10g)	1g Ui (+/-%)	10g Ui (+/-%)	vi
Measurement System								
Probe calibration	14	N	2	1	1	7.00	7.00	∞
Axial Isotropy	3.5	R	$\sqrt{3}$	$\sqrt{0.5}$	$\sqrt{0.5}$	1.43	1.43	∞
Hemispherical Isotropy	5.9	R	$\sqrt{3}$	$\sqrt{0.5}$	$\sqrt{0.5}$	2.41	2.41	∞
Boundary effect	1	R	$\sqrt{3}$	1	1	0.58	0.58	∞
Linearity	4.7	R	$\sqrt{3}$	1	1	2.71	2.71	∞
System detection limits	1	R	$\sqrt{3}$	1	1	0.58	0.58	∞
Modulation response	0	R	$\sqrt{3}$	1	1	0.00	0.00	∞
Readout Electronics	0.5	N	1	1	1	0.50	0.50	∞
Response Time	0	R	$\sqrt{3}$	1	1	0.00	0.00	∞
Integration Time	1.4	R	$\sqrt{3}$	1	1	0.81	0.81	∞
RF ambient conditions-Noise	3	R	$\sqrt{3}$	1	1	1.73	1.73	∞
RF ambient conditions-reflections	3	R	$\sqrt{3}$	1	1	1.73	1.73	∞
Probe positioner mechanical tolerance	3.28	R	$\sqrt{3}$	1	1	1.89	1.89	∞
Probe positioning with respect to phantom shell	3.28	R	$\sqrt{3}$	1	1	1.89	1.89	∞
Extrapolation, Interpolation and Integration Algorithms for Max, SAR	2.3	R	$\sqrt{3}$	1	1	1.33	1.33	∞
Test sample Related								
Test sample positioning	2.6	N	1	1	1	2.60	2.60	11
Device holder uncertainty	3	N	1	1	1	3.00	3.00	7
Output Power Variation - SAR Drift Measurement	5	R	$\sqrt{3}$	1	1	2.89	2.89	∞
SAR scaling	5	R	$\sqrt{3}$	1	1	2.89	2.89	∞
Phantom and tissue parameters								
Phantom uncertainty (shape and thickness uncertainty)	4	R	$\sqrt{3}$	1	1	2.31	2.31	∞
Uncertainty in SAR correction for deviations in permittivity and conductivity	2.9	N	1	1	0.84	2.90	2.44	∞
Liquid Conductivity - Measurement Uncertainty)	4	R	1	0.78	0.71	3.12	2.84	5
Liquid Permittivity - Measurement Uncertainty	4.07	N	1	0.23	0.26	0.94	1.06	5
Liquid Conductivity (Temperature Uncertainty)	2.5	R	$\sqrt{3}$	0.78	0.71	1.13	1.02	∞
Liquid Permittivity (Temperature Uncertainty)	5.06	N	$\sqrt{3}$	0.23	0.26	0.67	0.76	∞
Combined Standard Uncertainty		RSS				11.80	11.63	
Expanded Uncertainty (95% Confidence interval)		K				23.6	23.26	



9.2 System validation Uncertainty

Uncertainty Component	Tol (+ - %)	Prob. Dist.	Div.	Ci (1g)	Ci (10g)	1g Ui (+-%)	10g Ui (+-%)	vi
Measurement System								
Probe calibration	14	N	2	1	1	7.00	7.00	∞
Axial Isotropy	3.5	R	$\sqrt{3}$	1	1	2.02	2.02	∞
Hemispherical Isotropy	5.9	R	$\sqrt{3}$	0	0	0.00	0.00	∞
Boundary effect	1	R	$\sqrt{3}$	1	1	0.58	0.58	∞
Linearity	4.7	R	$\sqrt{3}$	1	1	2.71	2.71	∞
System detection limits	1	R	$\sqrt{3}$	1	1	0.58	0.58	∞
Modulation response	0	R	$\sqrt{3}$	1	1	0.00	0.00	∞
Readout Electronics	0.5	N	1	1	1	0.50	0.50	∞
Response Time	0	R	$\sqrt{3}$	1	1	0.00	0.00	∞
Integration Time	1.4	R	$\sqrt{3}$	0	0	0.00	0.00	∞
RF ambient conditions-Noise	3	R	$\sqrt{3}$	1	1	1.73	1.73	∞
RF ambient conditions- reflections	3	R	$\sqrt{3}$	1	1	1.73	1.73	∞
Probe positioner mechanical tolerance	3.28	R	$\sqrt{3}$	1	1	1.89	1.89	∞
Probe positioning with respect to phantom shell	3.28	R	$\sqrt{3}$	1	1	1.89	1.89	∞
Extrapolation, Interpolation and Integration Algorithms for Max, SAR	2.3	R	$\sqrt{3}$	1	1	1.33	1.33	∞
Dipole								
Deviation of Experimental Source from Numerical Source	5	N	1	1	1	5.00	5.00	∞
Input Power and SAR Drift Measurement	0.5	R	$\sqrt{3}$	1	1	0.29	0.29	∞
Dipole Axis to Liquid Distance	2	R	$\sqrt{3}$	1	1	1.15	1.15	∞
Phantom and Tissue Parameters								
Phantom uncertainty (shape and thickness uncertainty)	4	R	$\sqrt{3}$	1	1	2.31	2.31	∞
Uncertainty in SAR correction for deviations in permittivity and conductivity	2.9	N	1	1	0.84	2.90	2.44	∞
Liquid Conductivity - Measurement Uncertainty)	4	R	1	0.78	0.71	3.12	2.84	5
Liquid Permittivity - Measurement Uncertainty	4.07	N	1	0.23	0.26	0.94	1.06	5
Liquid Conductivity (Temperature Uncertainty)	2.5	R	$\sqrt{3}$	0.78	0.71	1.13	1.44	∞
Liquid Permittivity (Temperature Uncertainty)	5.06	N	$\sqrt{3}$	0.23	0.26	0.67	2.92	∞
Combined Standard Uncertainty		RSS				11.35	11.57	
Expanded Uncertainty (95% Confidence interval)		K				22.70	23.13	



10. Conducted Power Measurement

10.1 Test Result

BT				
Mode	Channel Number	Frequency (MHz)	Average Power (dBm)	Output Power (mW)
GFSK(1Mbps)	0	2402	9.93	9.84
	39	2441	10.39	10.94
	78	2480	9.78	9.51
$\pi/4$ -QPSK(2Mbps)	0	2402	8.88	7.73
	39	2441	9.31	8.53
	78	2480	8.61	7.26
8DPSK(3Mbps)	0	2402	9.23	8.38
	39	2441	9.67	9.27
	78	2480	8.97	7.89

BLE				
Mode	Channel Number	Frequency (MHz)	Average Power (dBm)	Output Power (mW)
GFSK(1Mbps)	0	2402	8.54	7.14
	19	2440	8.85	7.67
	39	2480	8.29	6.75
GFSK(2Mbps)	0	2402	8.62	7.28
	19	2440	8.93	7.82
	39	2480	8.39	6.90



2.4GWIFI					
Mode	Channel Number	Frequency (MHz)	ANT 1 Power (dBm)	ANT 2 Power (dBm)	MIMO Power (dBm)
802.11b	1	2412	17.84	18	N/A
	7	2437	18.4	17.28	N/A
	11	2462	17.61	17.4	N/A
802.11g	1	2412	15.63	15.77	N/A
	7	2437	14.81	14.93	N/A
	11	2462	14.57	15.37	N/A
802.11n-HT20	1	2412	14.17	14.47	13.63
	7	2437	14.55	13.36	13.45
	11	2462	14.17	13.91	13.5
802.11n-HT40	3	2422	13.21	13.76	12.35
	6	2437	12.95	12.62	12.43
	9	2452	12.25	12.59	13.31
802.11ax-HE20	1	2412	11.51	11.45	11.6
	7	2437	11.66	10.87	11.17
	11	2462	11.47	11.25	11.4
802.11ax-HE40	3	2422	10.86	10.52	10.65
	6	2437	10.14	9.27	9.72
	9	2452	10.06	10.31	10.37



5.2G WLAN					
Mode	Channel Number	Frequency (MHz)	ANT 1 Power (dBm)	ANT 2 Power (dBm)	MIMO Power (dBm)
802.11a20	36	5180	14.26	14.57	N/A
	40	5200	14.69	14.36	N/A
	48	5240	14.24	13.66	N/A
802.11n-HT20	36	5180	12.97	13.28	12.95
	40	5200	13.4	13.15	13.16
	48	5240	12.91	12.51	12.61
802.11n-HT40	38	5190	13.1	12.76	13.46
	46	5230	13.09	12.59	13.95
802.11ac-VHT20	36	5180	12.12	12.27	12.27
	40	5200	12.43	12.19	12.38
	48	5240	11.89	11.68	11.97
802.11ac-VHT40	38	5190	11.14	10.89	10.84
	46	5230	11.19	10.71	10.84
802.11ac-VHT80	42	5210	10.08	9.4	10.86
802.11ax-HE20	36	5180	10.31	10.26	10.36
	40	5200	10.78	10.21	10.64
	48	5240	10.15	9.79	10.14
802.11ax-HE40	38	5190	9.86	9.01	9.39
	46	5230	9.88	8.59	9.26
802.11ax-HE80	42	5210	9.01	8.3	8.68

5.3G WLAN					
Mode	Channel Number	Frequency (MHz)	ANT 1 Power (dBm)	ANT 2 Power (dBm)	MIMO Power (dBm)
802.11a20	52	5260	14.21	14.51	N/A
	60	5300	13.79	13.85	N/A
	64	5320	13.94	14.1	N/A
802.11n-HT20	52	5260	12.74	13.14	12.46
	60	5300	13.53	12.68	13.09
	64	5320	12.55	12.86	13.26
802.11n-HT40	54	5270	12.71	13.01	13.42
	62	5310	12.28	12.6	13.11
802.11ac-VHT20	52	5260	11.81	11.44	11.7
	60	5300	11.48	11.9	11.31
	64	5320	11.69	12.04	11.46
802.11ac-VHT40	54	5270	10.84	10.2	10.93
	62	5310	10.45	10.78	10.47
802.11ac-VHT80	58	5290	10.2	9.36	10.5
802.11ax-HE20	52	5260	9.99	9.58	9.96
	60	5300	9.69	10.04	9.58
	64	5320	9.88	10.27	9.73
802.11ax-HE40	54	5270	9.49	8.8	8.67
	62	5310	9.06	8.53	8.37
802.11ax-HE80	54	5290	9.01	8.2	8.3



5.6G WLAN					
Mode	Channel Number	Frequency (MHz)	ANT 1 Power (dBm)	ANT 2 Power (dBm)	MIMO Power (dBm)
802.11a20	100	5500	14.02	13.97	N/A
	116	5580	14.69	15.49	N/A
	140	5700	14.37	14.6	N/A
802.11n-HT20	100	5500	12.72	12.51	12.73
	116	5580	13.44	14.18	12.78
	140	5700	12.96	13	13.65
802.11n-HT40	102	5510	13.68	13.59	12.59
	110	5550	13.12	13.35	12.8
	134	5670	13.65	13.86	13.88
802.11ac-VHT20	100	5500	11.83	11.93	11.89
	116	5580	11.39	13.07	11.73
	140	5700	12.07	12.7	12.72
802.11ac-VHT40	102	5510	10.75	10.5	11.22
	110	5550	11.14	11.12	11.24
	134	5670	10.8	11.63	11.99
802.11ac-VHT80	106	5530	9.23	9.33	9.92
	122	5610	9.61	10.64	10.81
802.11ax-HE20	100	5500	10.06	9.92	9.08
	116	5580	10.69	10.92	9.94
	140	5700	10.48	10.99	10.03
802.11ax-HE40	102	5510	9.49	8.45	8.2
	110	5550	8.77	8.72	9.08
	134	5670	9.49	9.44	9.7
802.11ax-HE80	106	5530	9.2	8.28	8.8
	122	5610	9.56	9.52	9.75
802.11ac-VHT160	114	5570	9.05	9.83	9.17
	50	5250	9.11	9.36	9.89
802.11ax-HE160	114	5570	8.39	8.7	8.25
	50	5250	9.4	8.18	8.8



5.8G WLAN					
Mode	Channel Number	Frequency (MHz)	ANT 1 Power (dBm)	ANT 2 Power (dBm)	MIMO Power (dBm)
802.11a20	149	5745	13.78	14.15	N/A
	157	5785	13.83	14.45	N/A
	165	5825	13.9	14.05	N/A
802.11n-HT20	149	5745	13.47	13.55	13.26
	157	5785	13.58	13.69	13.5
	165	5825	13.52	13.25	13.19
802.11n-HT40	151	5755	12.38	13.14	12.98
	159	5795	12.49	13.51	13.25
802.11ac-VHT20	149	5745	11.45	12.43	11.24
	157	5785	11.67	11.72	11.63
	165	5825	11.76	11.27	11.55
802.11ac-VHT40	151	5755	10.5	11.22	10.94
	159	5795	10.62	11.35	10.21
802.11ac-VHT80	155	5775	10	10.7	10.6
802.11ax-HE20	149	5745	9.91	10.57	9.86
	157	5785	9.99	10.87	9.81
	165	5825	10.01	10.42	9.74
802.11ax-HE40	151	5755	8.26	8.56	9.13
	159	5795	8.48	8.73	9.27
802.11ax-HE80	155	5775	8.87	9.46	9.79

NFC		
Mode	Field strength(dBuV/m)	ERP(dBm)
NFC	61.69	-33.51

Note: The power of this EUT NFC is -33.51dBm (0.0004mw), this power is less than the defined low power exclusion level (Pmax: 39 mW), so NFC is exemption.



11. EUT and Test Setup Photo

11.1 EUT Photos

Note: Please see the attached T30_External Photos.

11.2 Setup Photos

Note: Please see the attached FCC ID_SAR Test setup photo.



12. SAR Result Summary

12.1 Body-worn and Hotspot SAR

Band	Model	Test Position	Freq.	SAR (1g) (W/kg)	Power Drift (%)	Max. Turn-up Power (dBm)	Meas. Output Power (dBm)	Scaling Factor	Scaled SAR (W/Kg)	Meas. No.
2.4GHz WLAN Ant1	802.11b	Back Side	2437	0.442	-1.99	18.50	18.40	1.023	0.452	1
		Right Side	2437	0.017	2.90	18.50	18.40	1.023	0.017	/
		Top Side	2437	0.136	-2.16	18.50	18.40	1.023	0.139	/
2.4GHz WLAN Ant2	802.11b	Back Side	2412	0.436	1.13	18.10	18.00	1.023	0.446	2
		Top Side	2412	0.239	3.61	18.10	18.00	1.023	0.245	/
2.4GHz WLAN MIMO1	802.11n-HT20	Back Side	2412	0.161	-2.23	14.00	13.63	1.089	0.175	3
		Right Side	2412	0.038	-3.29	14.00	13.63	1.089	0.041	/
		Top Side	2412	0.092	2.03	14.00	13.63	1.089	0.100	/
2.4GHz WLAN MIMO2	802.11n-HT20	Back Side	2412	0.161	0.10	14.00	13.63	1.089	0.175	4
		Right Side	2412	0.036	0.24	14.00	13.63	1.089	0.039	/
		Top Side	2412	0.092	-1.13	14.00	13.63	1.089	0.100	/
5.2GHz WLAN Ant1	802.11a	Back Side	5200	0.416	0.16	15.00	14.69	1.074	0.447	5
		Right Side	5200	0.078	-0.95	15.00	14.69	1.074	0.084	/
		Top Side	5200	0.241	2.43	15.00	14.69	1.074	0.259	/
5.2GHz WLAN Ant2	802.11a	Back Side	5180	0.351	-2.26	15.00	14.57	1.104	0.388	6
		Top Side	5180	0.205	3.55	15.00	14.57	1.104	0.226	/
5.2GHz WLAN MIMO1	802.11n-HT40	Back Side	5230	0.190	-3.33	14.00	13.95	1.012	0.192	7
		Right Side	5230	0.043	-1.56	14.00	13.95	1.012	0.043	/
		Top Side	5230	0.109	3.84	14.00	13.95	1.012	0.110	/
5.2GHz WLAN MIMO2	802.11n-HT40	Back Side	5230	0.191	2.28	14.00	13.95	1.012	0.193	8
		Right Side	5230	0.043	-3.16	14.00	13.95	1.012	0.043	/
		Top Side	5230	0.109	3.87	14.00	13.95	1.012	0.110	/
5.3GHz WLAN Ant1	802.11a	Back Side	5260	0.398	-0.38	14.50	14.21	1.069	0.425	9
		Right Side	5260	0.086	2.25	14.50	14.21	1.069	0.092	/
		Top Side	5260	0.229	3.48	14.50	14.21	1.069	0.245	/
5.3GHz WLAN Ant2	802.11a	Back Side	5260	0.402	2.85	14.60	14.51	1.021	0.410	10
		Top Side	5260	0.229	1.56	14.60	14.51	1.021	0.234	/
5.3GHz WLAN MIMO1	802.11n-HT40	Back Side	5270	0.134	2.32	13.50	13.42	1.019	0.136	11
		Right Side	5270	0.028	2.88	13.50	13.42	1.019	0.029	/
		Top Side	5270	0.077	1.97	13.50	13.42	1.019	0.078	/
5.3GHz WLAN MIMO2	802.11n-HT40	Back Side	5270	0.142	-1.02	13.50	13.42	1.019	0.145	12
		Right Side	5270	0.032	1.77	13.50	13.42	1.019	0.033	/
		Top Side	5270	0.081	0.01	13.50	13.42	1.019	0.083	/
5.6GHz WLAN Ant1	802.11a	Back Side	5580	0.353	3.37	15.00	14.69	1.074	0.379	13
		Right Side	5580	0.056	0.20	15.00	14.69	1.074	0.060	/
		Top Side	5580	0.201	0.31	15.00	14.69	1.074	0.216	/
5.6GHz WLAN Ant2	802.11a	Back Side	5580	0.261	0.61	15.50	15.49	1.002	0.262	14
		Top Side	5580	0.153	-3.83	15.50	15.49	1.002	0.153	/
5.6GHz WLAN MIMO1	802.11n-HT40	Back Side	5670	0.120	3.06	14.00	13.88	1.028	0.123	15
		Right Side	5670	0.029	3.45	14.00	13.88	1.028	0.030	/
		Top Side	5670	0.072	2.03	14.00	13.88	1.028	0.074	/
5.6GHz WLAN MIMO2	802.11n-HT40	Back Side	5670	0.118	-1.92	14.00	13.88	1.028	0.121	16
		Right Side	5670	0.029	3.89	14.00	13.88	1.028	0.030	/
		Top Side	5670	0.069	-2.39	14.00	13.88	1.028	0.071	/
5.8GHz WLAN Ant1	802.11a	Back Side	5825	0.410	-3.93	14.00	13.90	1.023	0.420	17
		Right Side	5785	0.079	-3.82	14.00	13.90	1.023	0.081	/
		Top Side	5825	0.234	2.07	14.00	13.90	1.023	0.239	/
5.8GHz WLAN Ant2	802.11a	Back Side	5785	0.371	2.76	14.50	14.45	1.012	0.375	18
		Top Side	5785	0.212	2.01	14.50	14.45	1.012	0.214	/



5.8GHz WLAN MIMO1	802.11n- HT20	Back Side	5785	0.178	1.82	13.60	13.50	1.023	0.182	19
		Right Side	5785	0.04	-2.88	13.60	13.50	1.023	0.041	/
		Top Side	5785	0.103	2.90	13.60	13.50	1.023	0.105	/
5.8GHz WLAN MIMO2	802.11n- HT20	Back Side	5785	0.199	0.50	13.60	13.50	1.023	0.204	20
		Right Side	5785	0.043	1.05	13.60	13.50	1.023	0.044	/
		Top Side	5785	0.116	3.68	13.60	13.50	1.023	0.119	/
BT	GFSK	Back Side	2441	0.085	3.74	10.50	10.39	1.026	0.087	21
		Right Side	2441	0.028	-0.67	10.50	10.39	1.026	0.029	/
		Top Side	2441	0.054	1.84	10.50	10.39	1.026	0.055	/
2.4GHz WLAN Ant1- Spot-check	802.11b	Back Side	2437	0.433	-1.23	18.50	18.40	1.023	0.443	22
5.2GHz WLAN Ant1- Spot-check	802.11a	Back Side	5200	0.386	-1.53	15.00	14.69	1.074	0.415	23

Band	Mode	Max SAR (W/Kg)	WIFI MIMO
2.4G WLAN	802.11n-HT20	0.175	0.350
	802.11n-HT20	0.175	
5.2G WLAN	802.11n-HT40	0.192	0.385
	802.11n-HT40	0.193	
5.3G WLAN	802.11n-HT40	0.136	0.281
	802.11n-HT40	0.145	
5.6G WLAN	802.11n-HT40	0.123	0.244
	802.11n-HT40	0.121	
5.8G WLAN	802.11n-HT20	0.182	0.386
	802.11n-HT20	0.204	

Note:

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

12.2 Spot-Check parameter

Equipment Class	Test	Reference Worst-Case	Variant Test	dB Difference	Spot-Check Parameters	Pass Criterion
SAR	2.4G WLAN SAR	2412~2462 MHz TER _R =0.452	2412~2462 MHz TER _V =0.443	d _{TER} =0.02	d _{TERmax} (M)=0.30	TER < 1 and d _{TER} <d _{TERmax} (M) Pass
	U-NII SAR	5150~5250 MHz TER _R =0.447	5150~5250 MHz TER _V =0.415	d _{TER} =0.07	d _{TERmax} (M)=0.30	TER < 1 and d _{TER} <d _{TERmax} (M) Pass

Note:

- According to KDB 484596, the TER < 1 and d_{TER}<d_{TERmax}(M), spot-check is compliance.



12.3 Simultaneous Multi-band Transmission Evaluation

Application Simultaneous Transmission information:

Position	Simultaneous State
Body	1. Bluetooth + 2.4GHz WLAN/5G WLAN + NFC

NOTE:

1. The 2.4G WLAN and 5G 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. 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) $(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm}) \cdot [\sqrt{f} \text{ (GHz)} / x] \text{ W/kg}$ 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 $>50 \text{ mm}$.

Simultaneous Mode	Position	Mode	Max. 1-g SAR	1-g Sum SAR
			(W/kg)	(W/kg)
Bluetooth + 2.4G WLAN + NFC	Body	NFC	0.0000020	0.539
		Bluetooth	0.087	
		2.4G WLAN	0.452	
Bluetooth + 5G WLAN + NFC	Body	NFC	0.0000020	0.534
		Bluetooth	0.087	
		5G WLAN	0.447	

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
2450MHz Dipole	MVG	DIP2G450	SN 06/22 DIP2G450-645	2025.05.20	2028.05.19
5000MHz Dipole	MVG	DIP5G000	SN 06/22 DIP5G000-653	2025.05.22	2028.05.21
E-Field Probe	MVG	SSE2	0326-EPGO-431	2026.01.22	2027.01.21
Liquid Calibration Kit	MVG	OCPG 87	SN 06/22 OCPG87	2026.05.28	2027.05.27
Antenna	MVG	ANTA 73	SN 06/22 ANTA 73	N/A	N/A
Ellipsoid Phantom	MVG	ELLI 51	SN 06/22 ELLI 51	N/A	N/A
Phantom	MVG	SAM 148	SN 06/22 SAM148	N/A	N/A
Phone holder	MVG	MSH 117	SN 06/22 MSH 117	N/A	N/A
Laptop positioner	MVG	LSH 36	SN 06/22 LSH 38	N/A	N/A
Directional coupler	SHW	SHWDCP	202203280013	N/A	N/A
Network Analyzer	R&S	ZVL	116184	2026.03.03	2027.03.02
Multi Meter	Keithley	DMM6500	4527252	2026.03.03	2027.03.02
Signal Generator	Keysight	N5182B	MY59100717	2026.03.03	2027.03.02
Wireless Communication Test Set	R&S	CMW500	137737	2026.03.02	2027.03.01
Power Sensor	R&S	Z11	116184	2026.03.03	2027.03.02
Electronic Temperature hygrometer	N/A	ST-W2318	N/A	2026.03.05	2027.03.04
Temperature hygrometer	N/A	TP101	N/A	2026.03.05	2027.03.04



Appendix A. System Validation Plots

System Performance Check Data (2450MHz)

Type: Phone measurement (Complete)

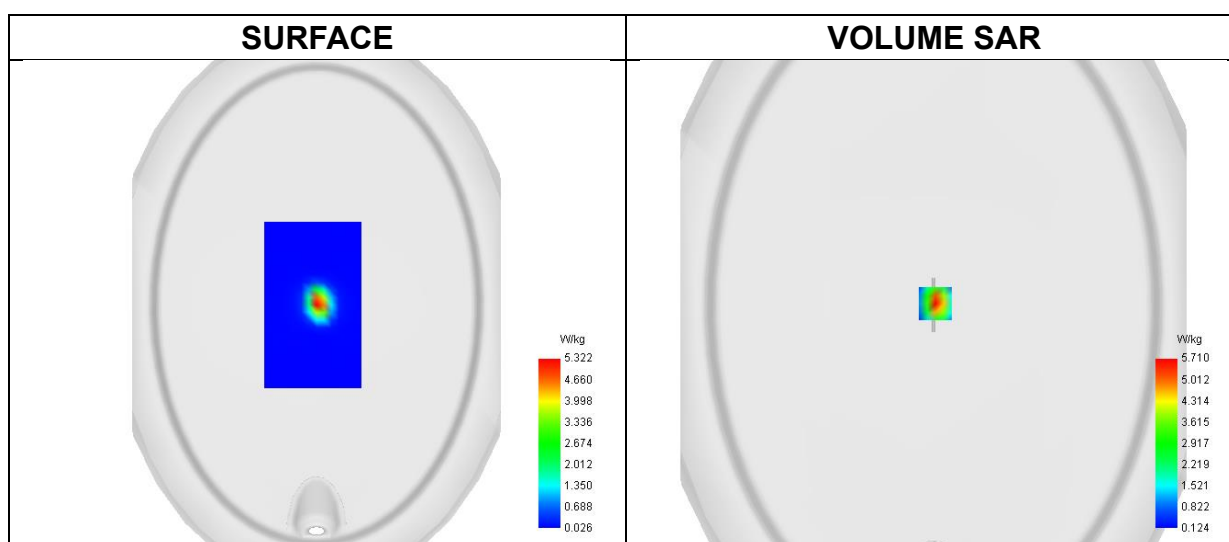
Area scan resolution: dx=8mm, dy=8mm

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

Date of measurement: 2026-07-17

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	CW2450
Channels	Middle
Signal	CW
Frequency (MHz)	2450.000
Relative permittivity	40.08
Conductivity (S/m)	1.77
Probe	0326-EPGO-431
ConvF	1.03
Crest factor:	1:1

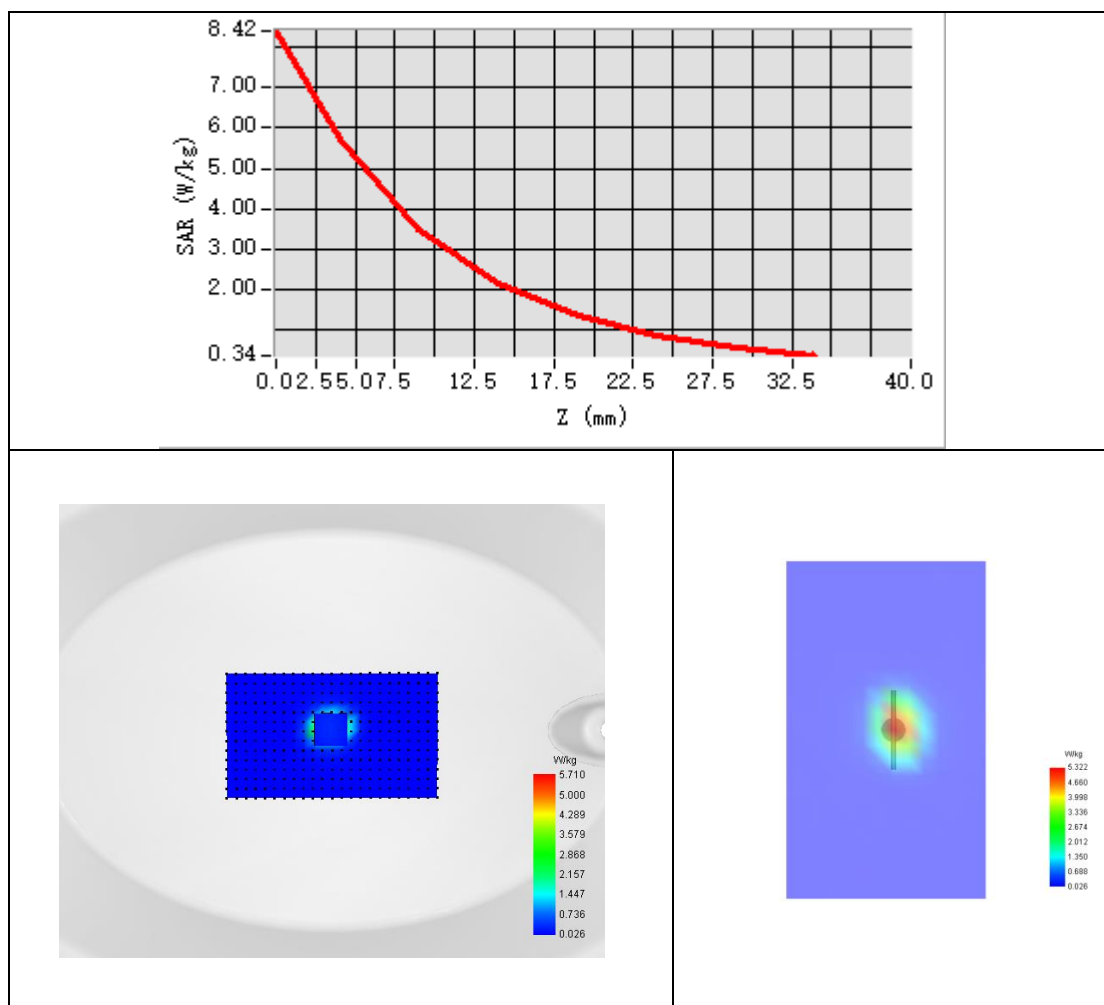


Maximum location: X=2.00, Y=1.00 ; SAR Peak: 8.61 W/kg

SAR 10g (W/Kg)	2.425
SAR 1g (W/Kg)	5.311
Horizontal validation criteria: minimum distance (mm)	11.313708
Vertical validation criteria: SAR ratio M2/M1 (%)	60.821556



Z Axis Scan





System Performance Check Data (5200MHz)

Type: Phone measurement (Complete)

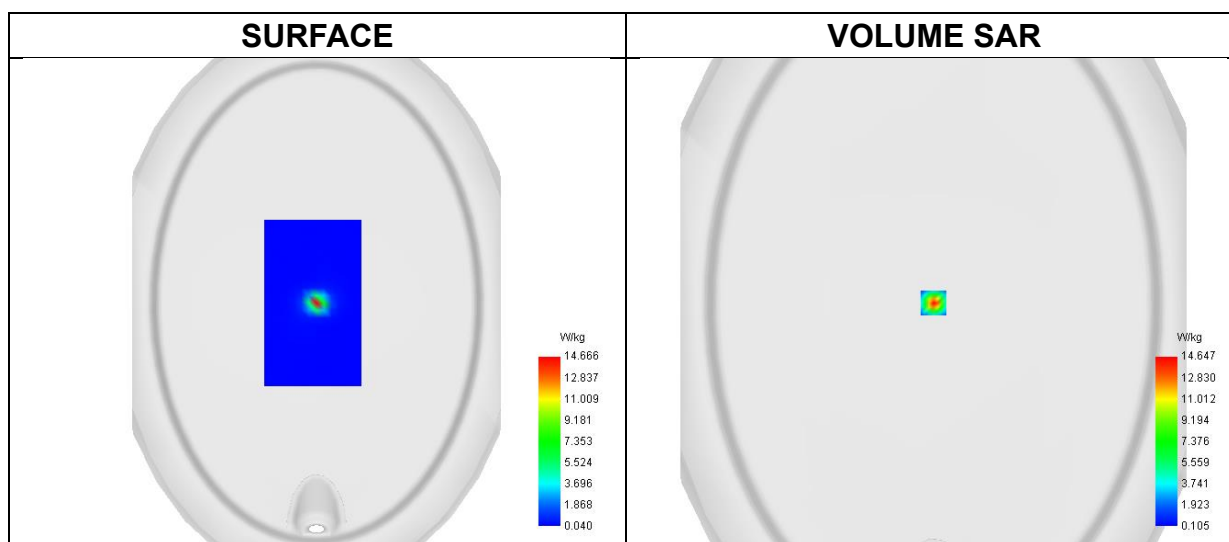
Area scan resolution: dx=8mm, dy=8mm

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

Date of measurement: 2026-07-19

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	CW5200
Channels	Middle
Signal	CW
Frequency (MHz)	5200.000
Relative permittivity	35.78
Conductivity (S/m)	4.67
Probe	0326-EPGO-431
ConvF	1.08
Crest factor:	1:1

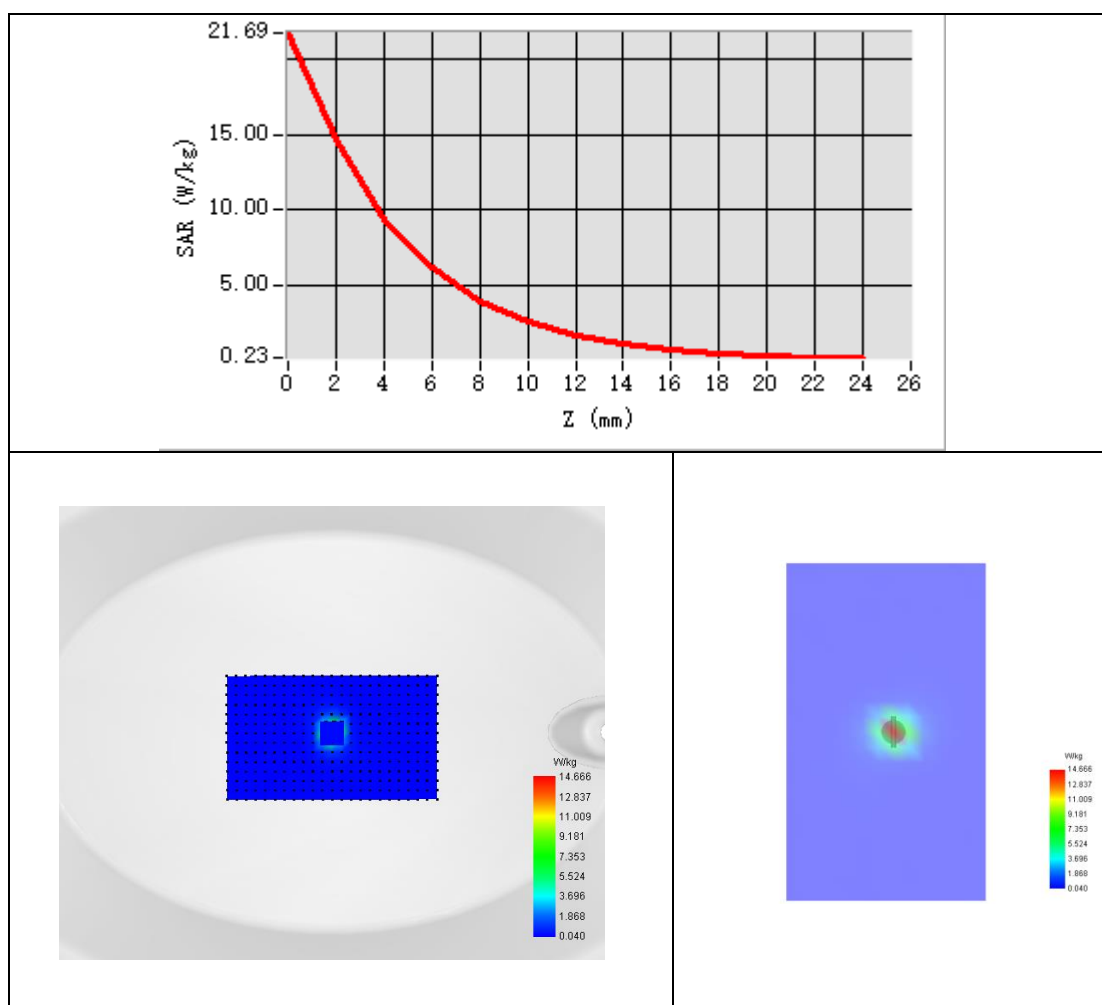


Maximum location: X=0.00, Y=0.00 ; SAR Peak: 22.36 W/kg

SAR 10g (W/Kg)	2.268
SAR 1g (W/Kg)	7.804
Horizontal validation criteria: minimum distance (mm)	8.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	63.784096



Z Axis Scan





System Performance Check Data (5400MHz)

Type: Phone measurement (Complete)

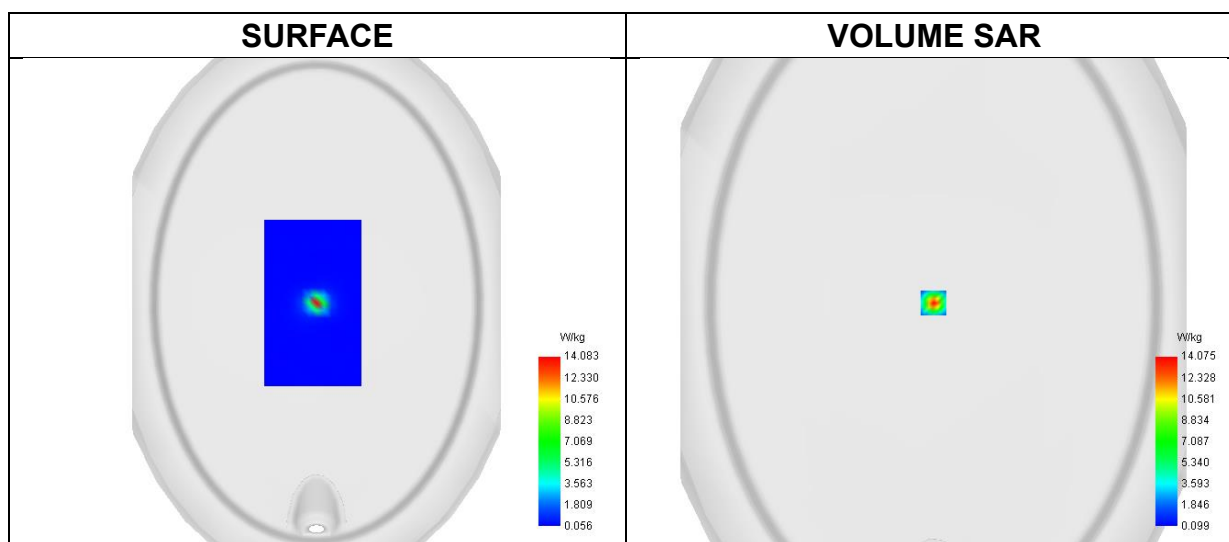
Area scan resolution: dx=8mm, dy=8mm

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

Date of measurement: 2026-07-19

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	CW5400
Channels	Middle
Signal	CW
Frequency (MHz)	5400.000
Relative permittivity	37.06
Conductivity (S/m)	4.88
Probe	0326-EPGO-431
ConvF	1.16
Crest factor:	1:1

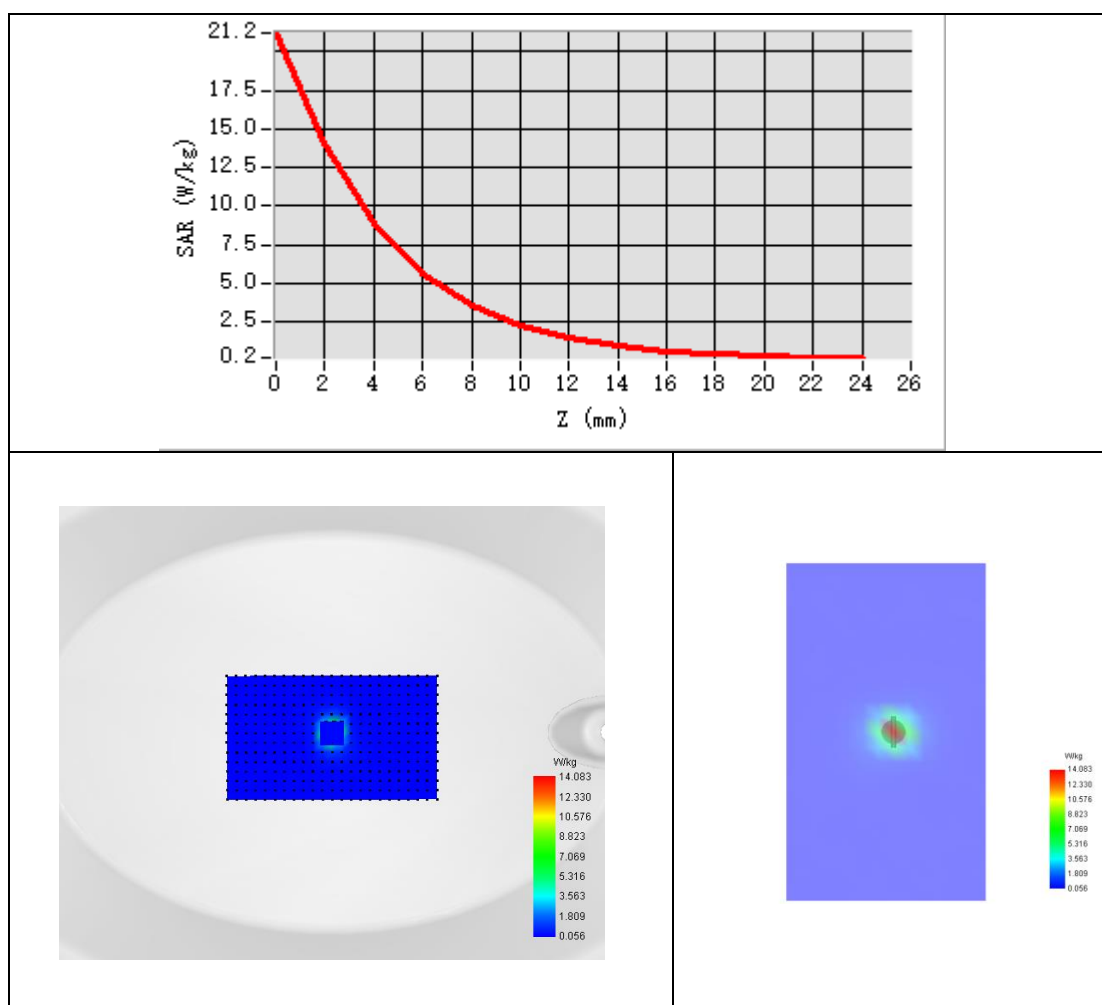


Maximum location: X=0.00, Y=0.00 ; SAR Peak: 21.53 W/kg

SAR 10g (W/Kg)	2.254
SAR 1g (W/Kg)	7.724
Horizontal validation criteria: minimum distance (mm)	8.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	62.819892



Z Axis Scan





System Performance Check Data (5600MHz)

Type: Phone measurement (Complete)

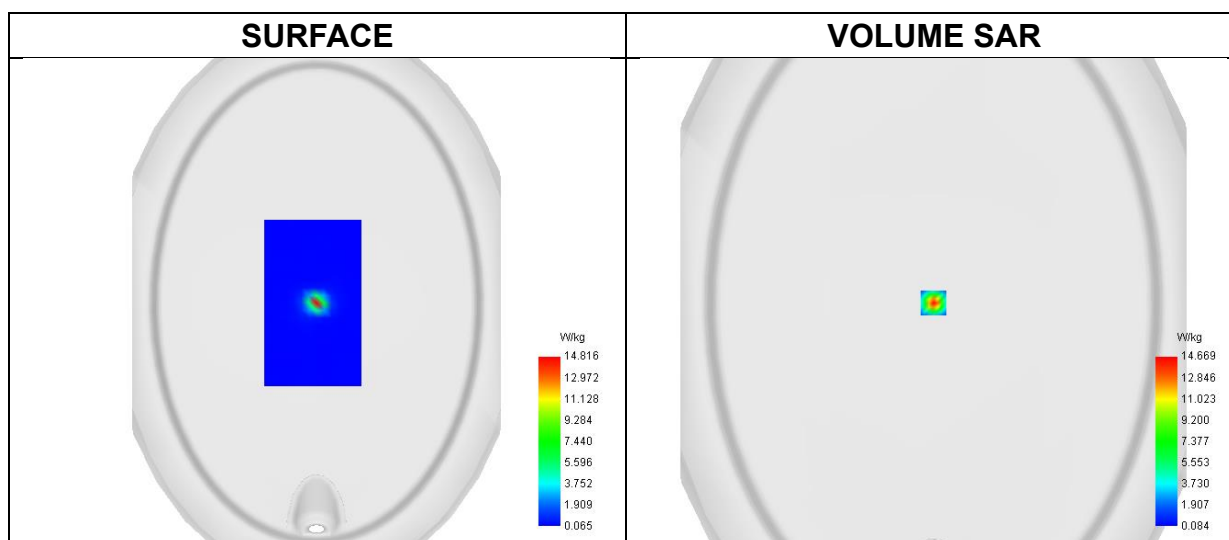
Area scan resolution: dx=8mm, dy=8mm

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

Date of measurement: 2026-07-29

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	CW5600
Channels	Middle
Signal	CW
Frequency (MHz)	5600.000
Relative permittivity	36.68
Conductivity (S/m)	5.12
Probe	0326-EPGO-431
ConvF	1.07
Crest factor:	1:1

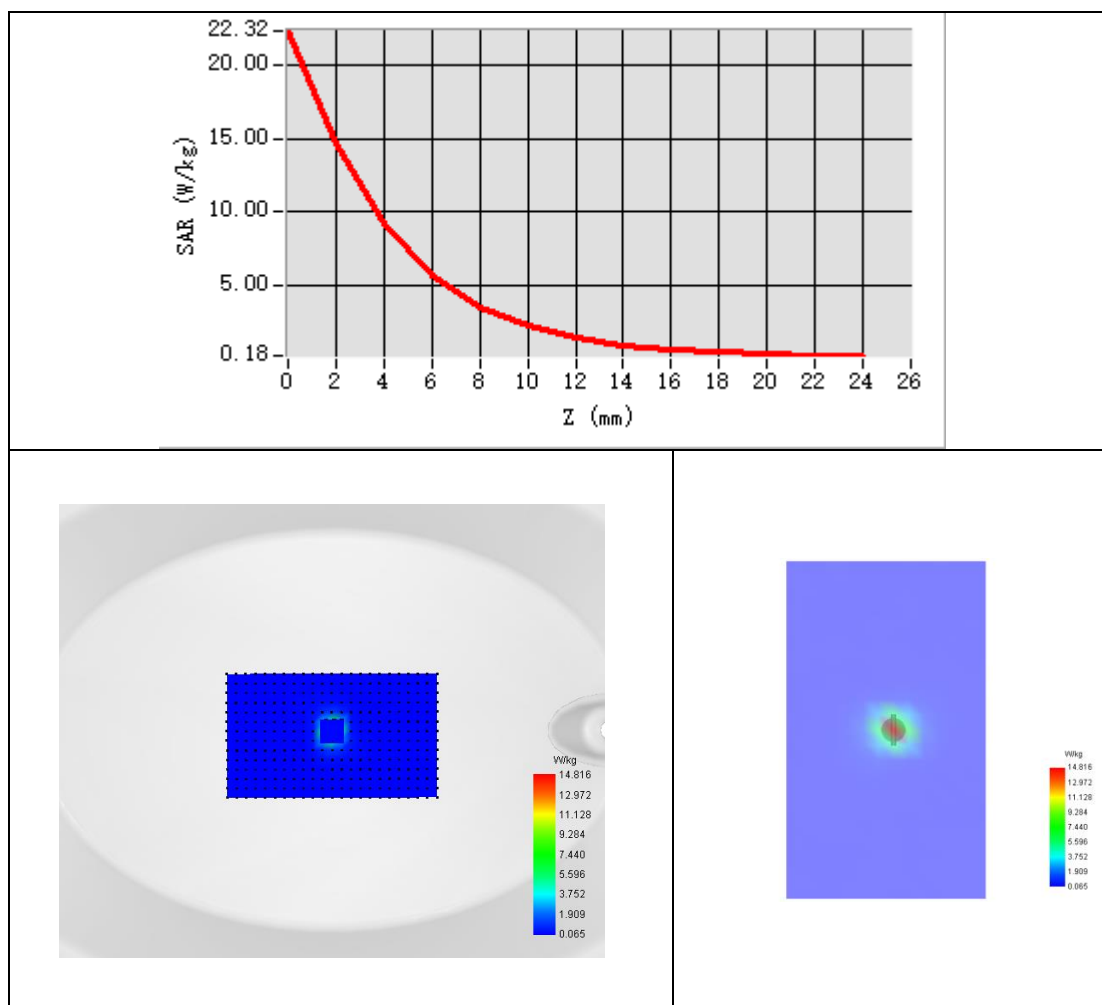


Maximum location: X=0.00, Y=0.00 ; SAR Peak: 22.42 W/kg

SAR 10g (W/Kg)	2.397
SAR 1g (W/Kg)	8.223
Horizontal validation criteria: minimum distance (mm)	8.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	62.404673



Z Axis Scan





System Performance Check Data (5800MHz)

Type: Phone measurement (Complete)

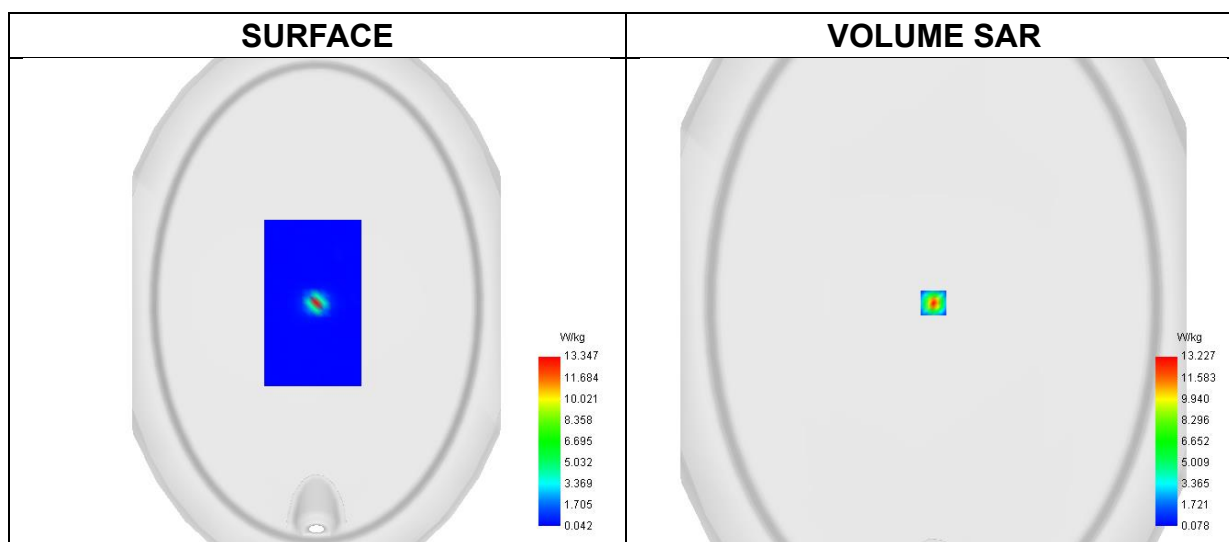
Area scan resolution: dx=8mm, dy=8mm

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

Date of measurement: 2026-07-29

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	CW5800
Channels	Middle
Signal	CW
Frequency (MHz)	5800.000
Relative permittivity	36.53
Conductivity (S/m)	5.23
Probe	0326-EPGO-431
ConvF	1.19
Crest factor:	1:1

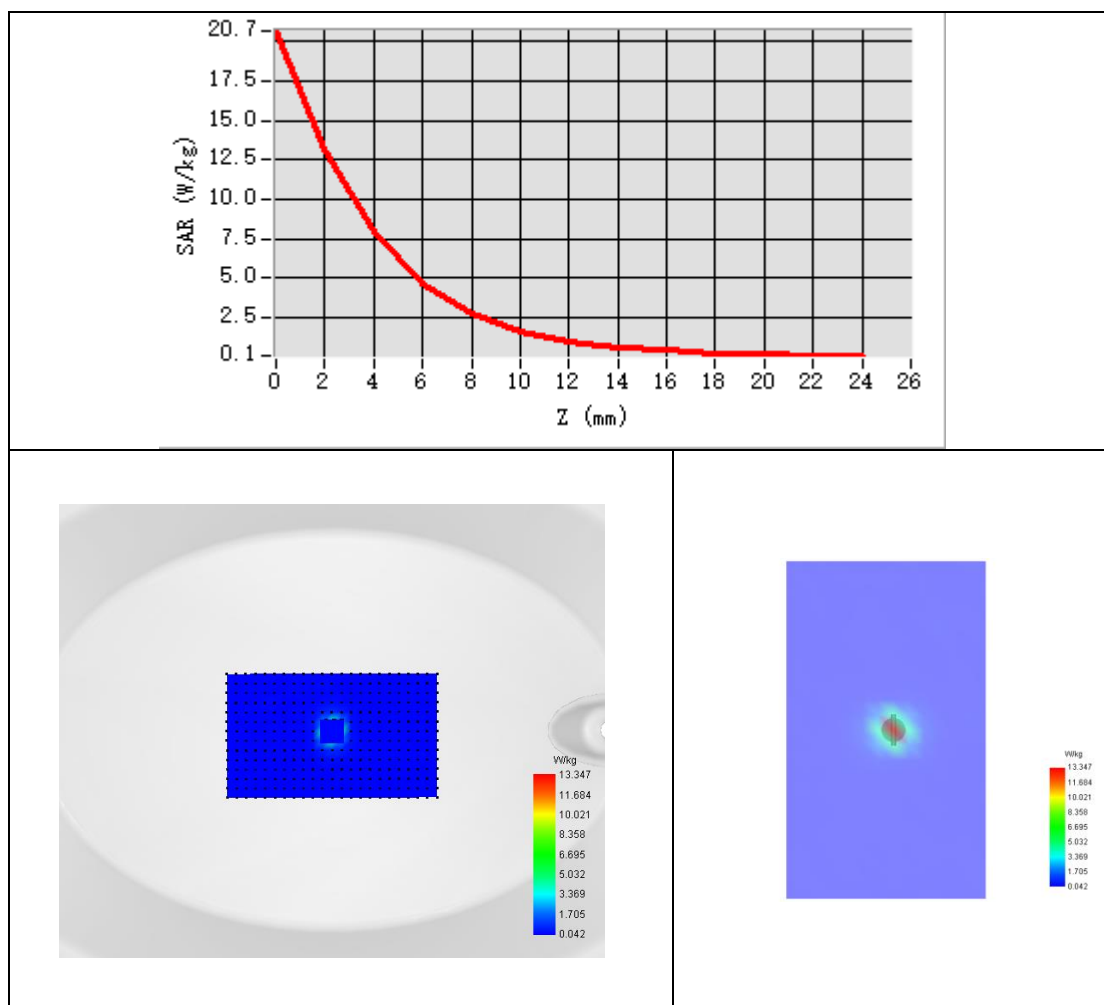


Maximum location: X=0.00, Y=0.00 ; SAR Peak: 20.67 W/kg

SAR 10g (W/Kg)	2.345
SAR 1g (W/Kg)	8.054
Horizontal validation criteria: minimum distance (mm)	8.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	60.765370



Z Axis Scan





System Performance Check Data (2450MHz)

Type: Phone measurement (Complete)

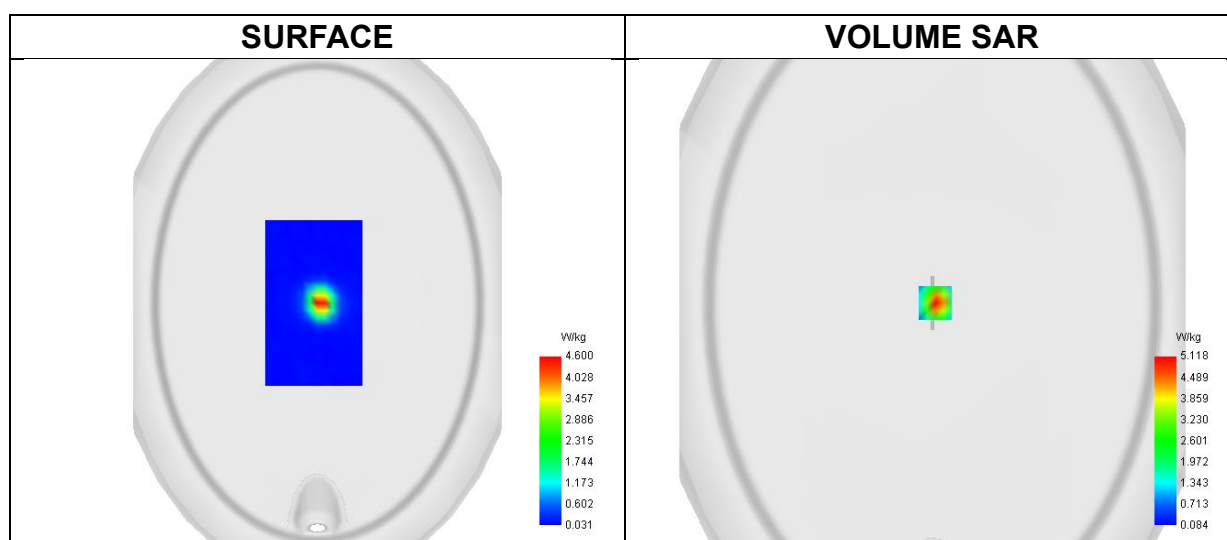
Area scan resolution: dx=8mm, dy=8mm

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

Date of measurement: 2026-08-03

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	CW2450
Channels	Middle
Signal	CW
Frequency (MHz)	2450.000
Relative permittivity	39.85
Conductivity (S/m)	1.83
Probe	0326-EPGO-431
ConvF	1.03
Crest factor:	1:1

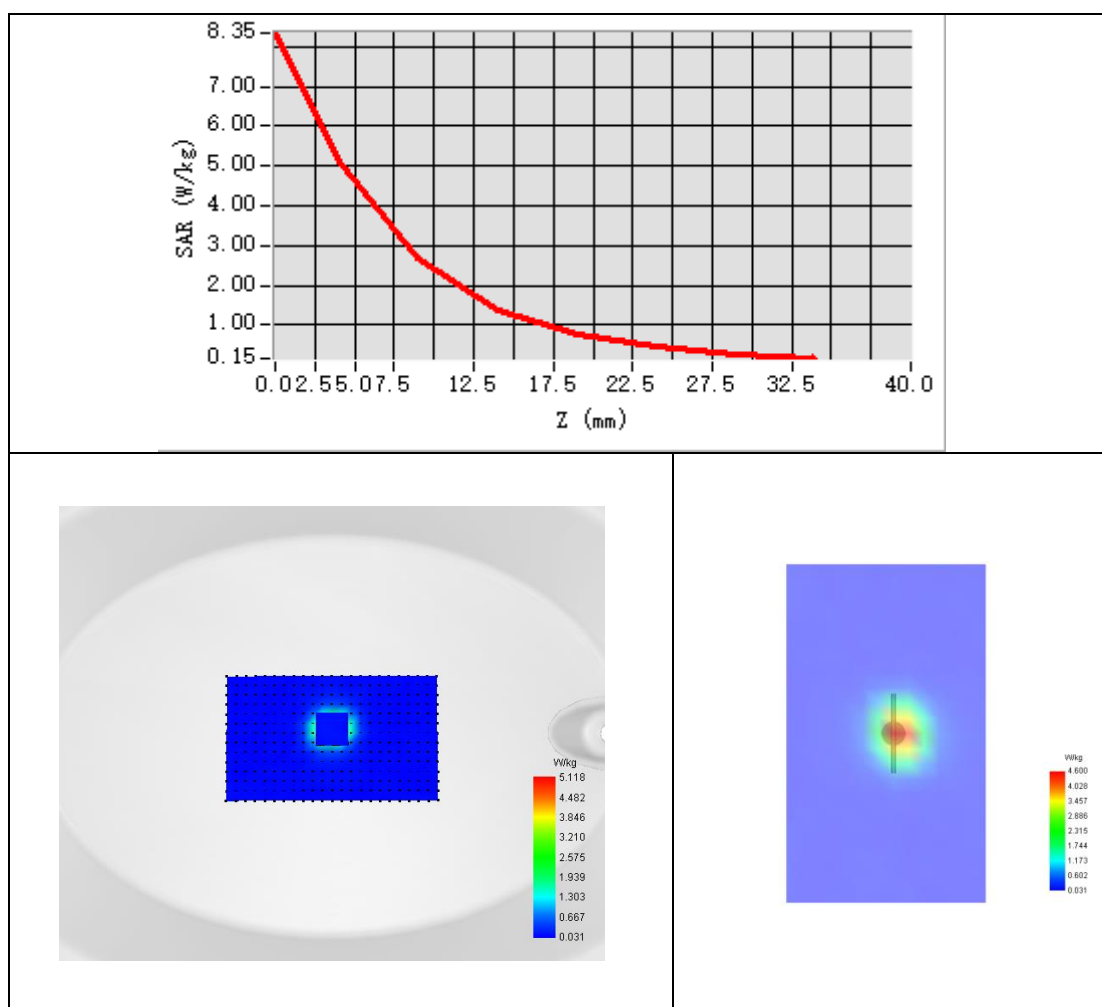


Maximum location: X=3.00, Y=0.00 ; SAR Peak: 8.46 W/kg

SAR 10g (W/Kg)	2.482
SAR 1g (W/Kg)	5.340
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	51.955481



Z Axis Scan





System Performance Check Data (5200MHz)

Type: Phone measurement (Complete)

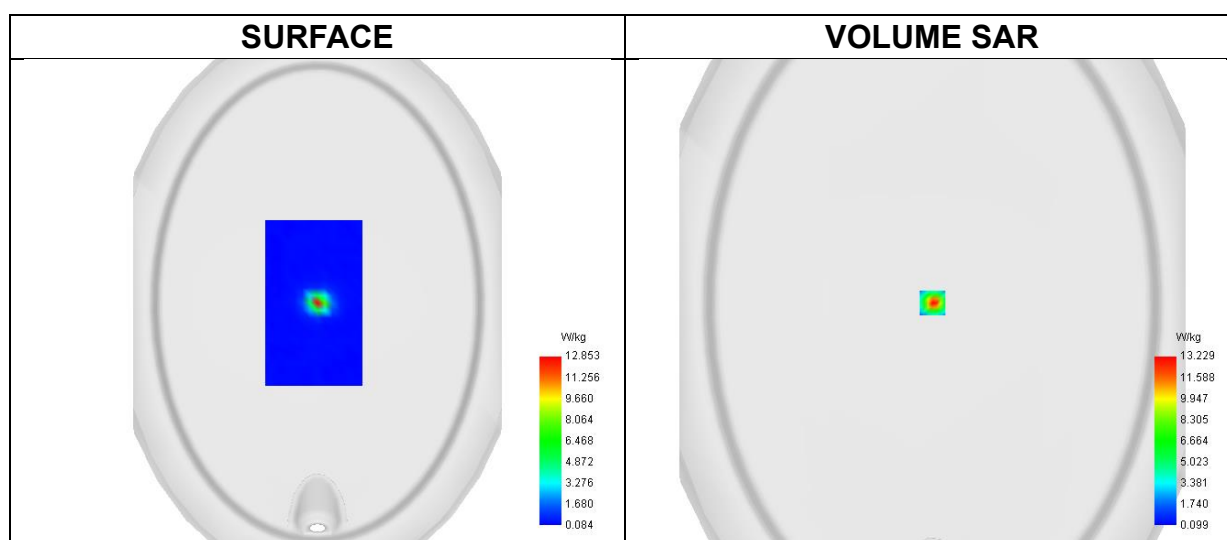
Area scan resolution: dx=8mm, dy=8mm

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

Date of measurement: 2026-08-03

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	CW5200
Channels	Middle
Signal	CW
Frequency (MHz)	5200.000
Relative permittivity	35.66
Conductivity (S/m)	4.59
Probe	0326-EPGO-431
ConvF	1.08
Crest factor:	1:1

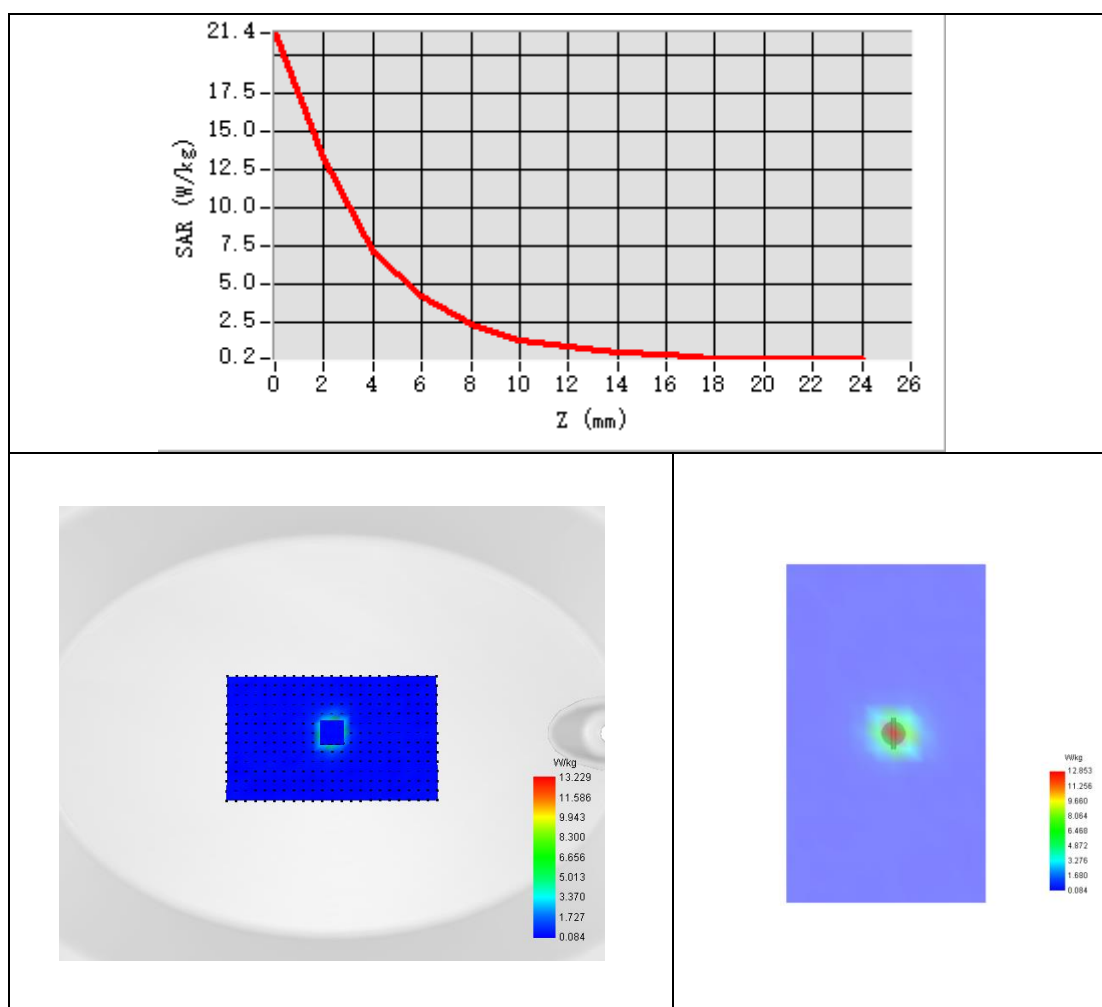


Maximum location: X=0.00, Y=0.00 ; SAR Peak: 22.36 W/kg

SAR 10g (W/Kg)	2.535
SAR 1g (W/Kg)	7.622
Horizontal validation criteria: minimum distance (mm)	8.944272
Vertical validation criteria: SAR ratio M2/M1 (%)	54.202208



Z Axis Scan



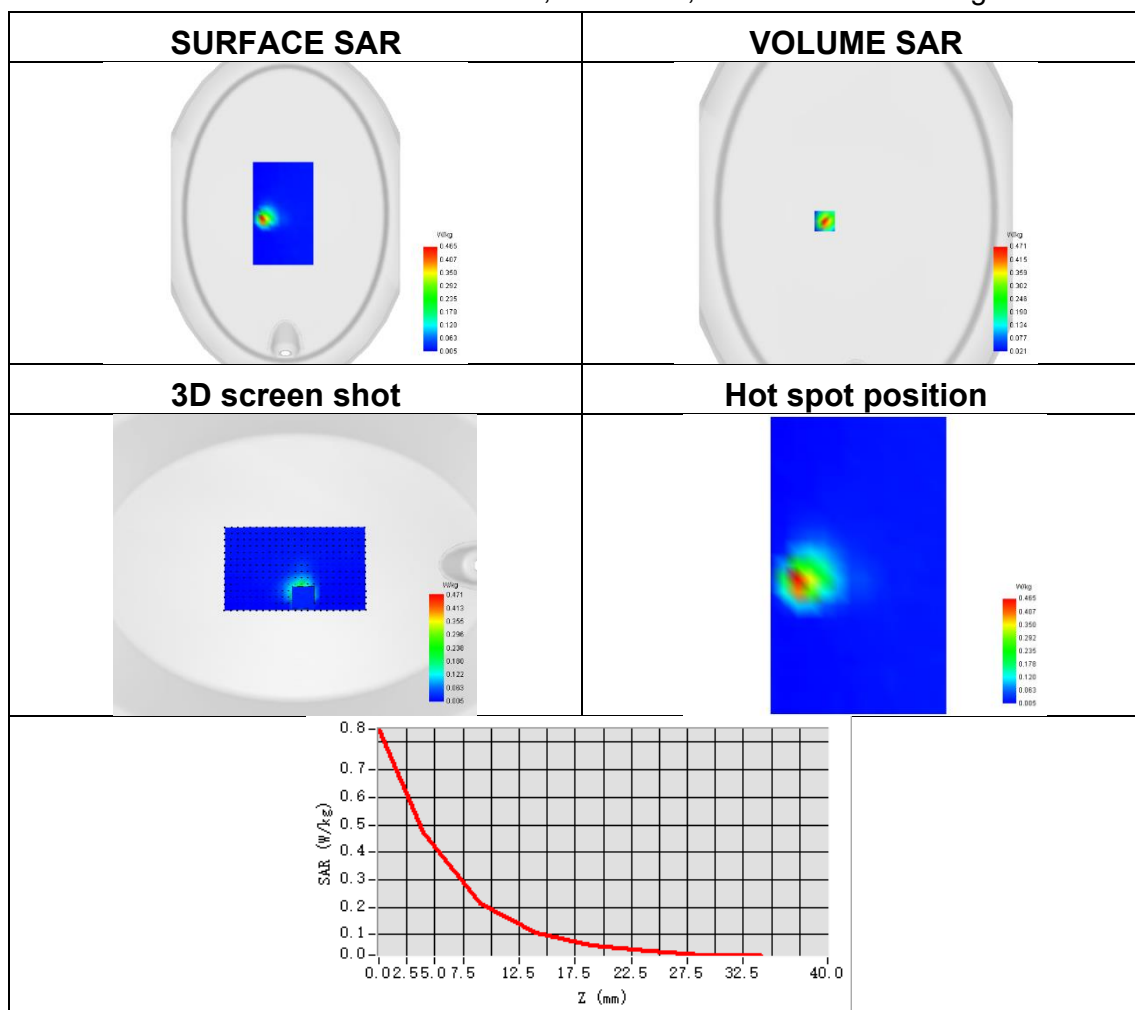


Appendix B. SAR Test Plots

Plot 1:

Test Date	2026-07-17
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	ISM
Signal	IEEE 802.11b
Frequency	2437
SAR 10g (W/Kg)	0.194
SAR 1g (W/Kg)	0.442
Horizontal validation criteria: minimum distance (mm)	11.313708
Vertical validation criteria: SAR ratio M2/M1 (%)	45.294182
ConvF	1.03
Relative permittivity	39.94
Conductivity (S/m)	1.82

Maximum location: X=-49.00, Y=-12.00 ; SAR Peak: 0.84 W/kg

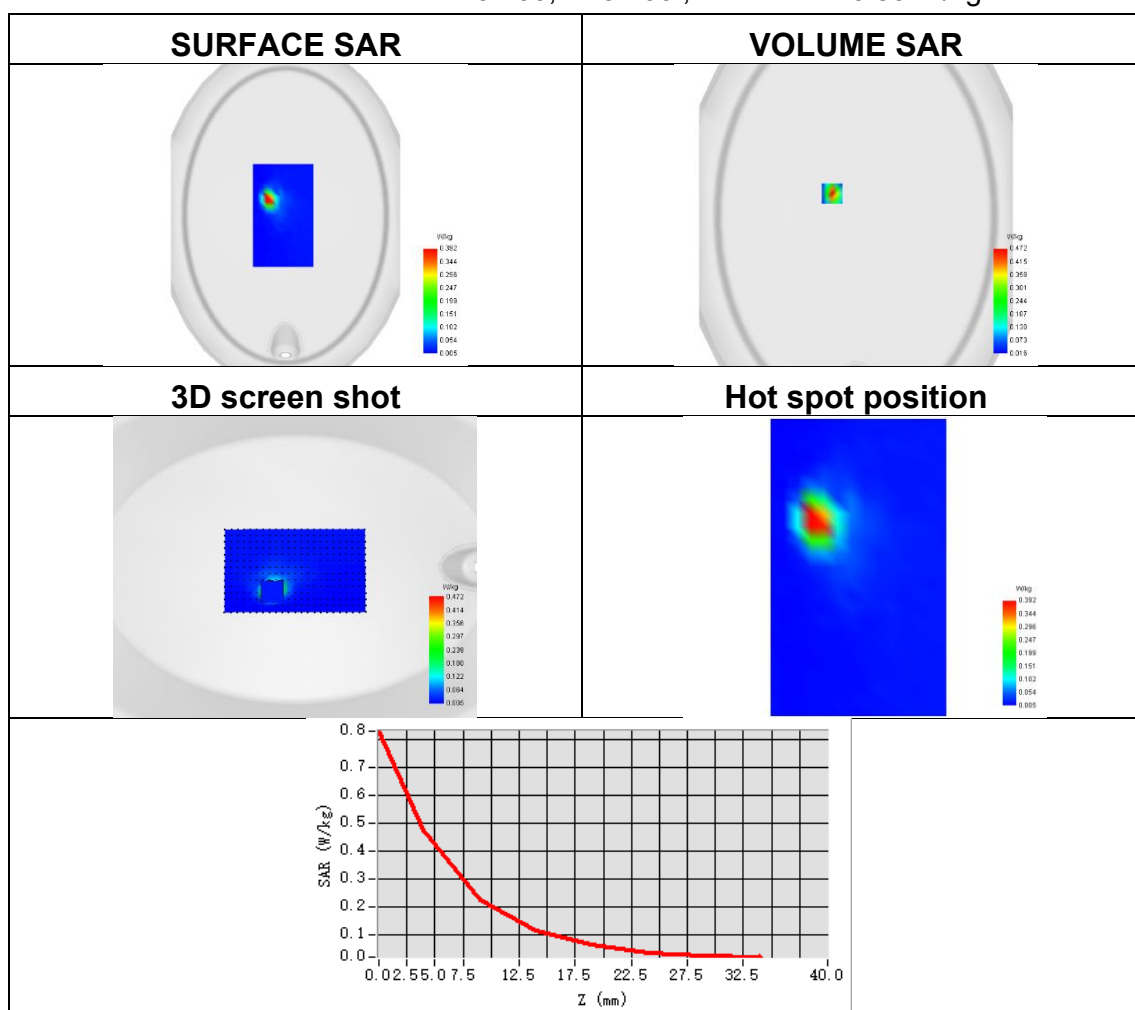




Plot 2:

Test Date	2026-07-17
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	ISM
Signal	IEEE 802.11b
Frequency	2412
SAR 10g (W/Kg)	0.190
SAR 1g (W/Kg)	0.436
Horizontal validation criteria: minimum distance (mm)	11.313708
Vertical validation criteria: SAR ratio M2/M1 (%)	47.085847
ConvF	1.03
Relative permittivity	40.19
Conductivity (S/m)	1.74

Maximum location: X=-37.00, Y=34.00 ; SAR Peak: 0.83 W/kg

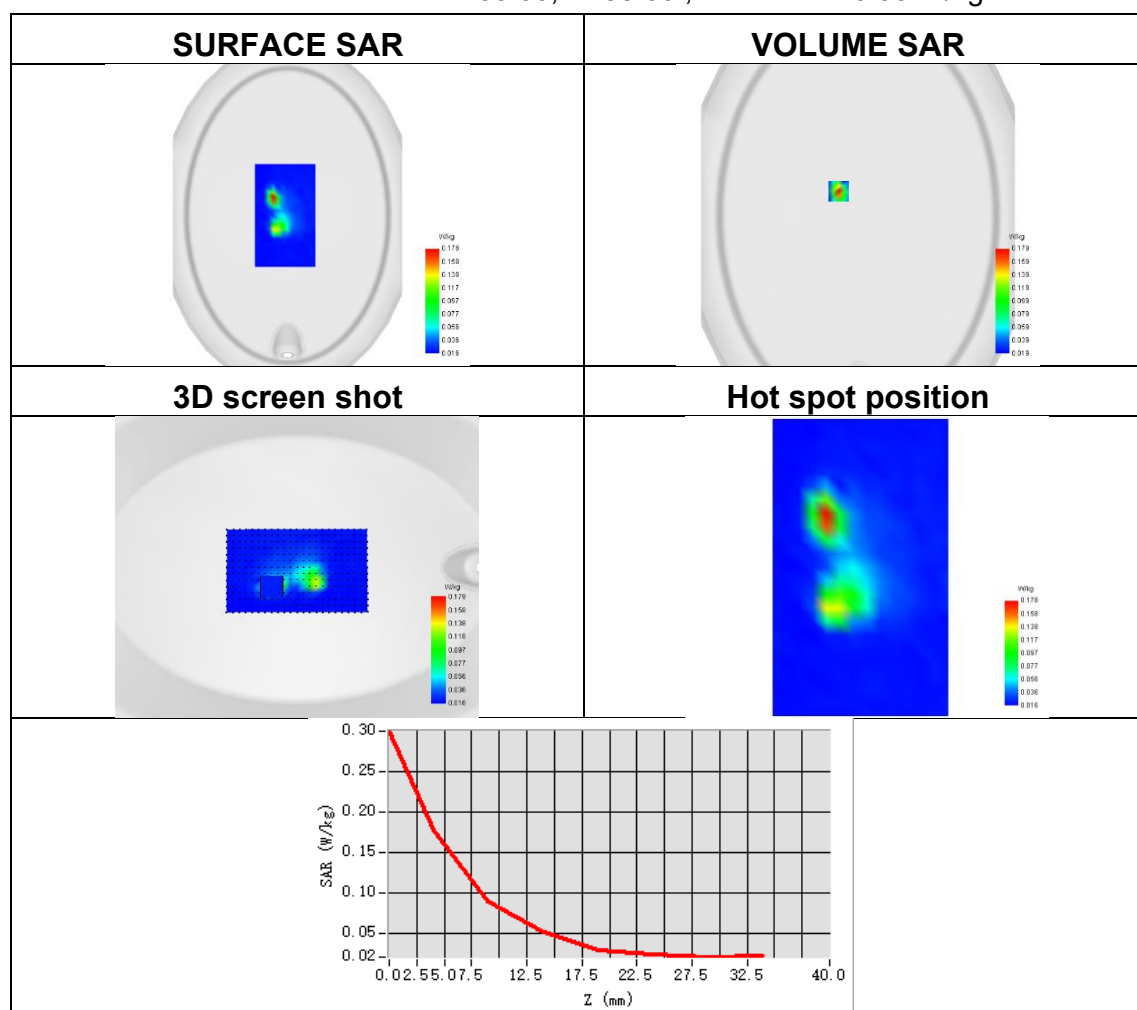




Plot 3:

Test Date	2026-07-17
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	ISM
Signal	IEEE 802.11n
Frequency	2412
SAR 10g (W/Kg)	0.076
SAR 1g (W/Kg)	0.161
Horizontal validation criteria: minimum distance (mm)	11.313708
Vertical validation criteria: SAR ratio M2/M1 (%)	50.211378
ConvF	1.03
Relative permittivity	40.19
Conductivity (S/m)	1.74

Maximum location: X=-30.00, Y=38.00 ; SAR Peak: 0.30 W/kg

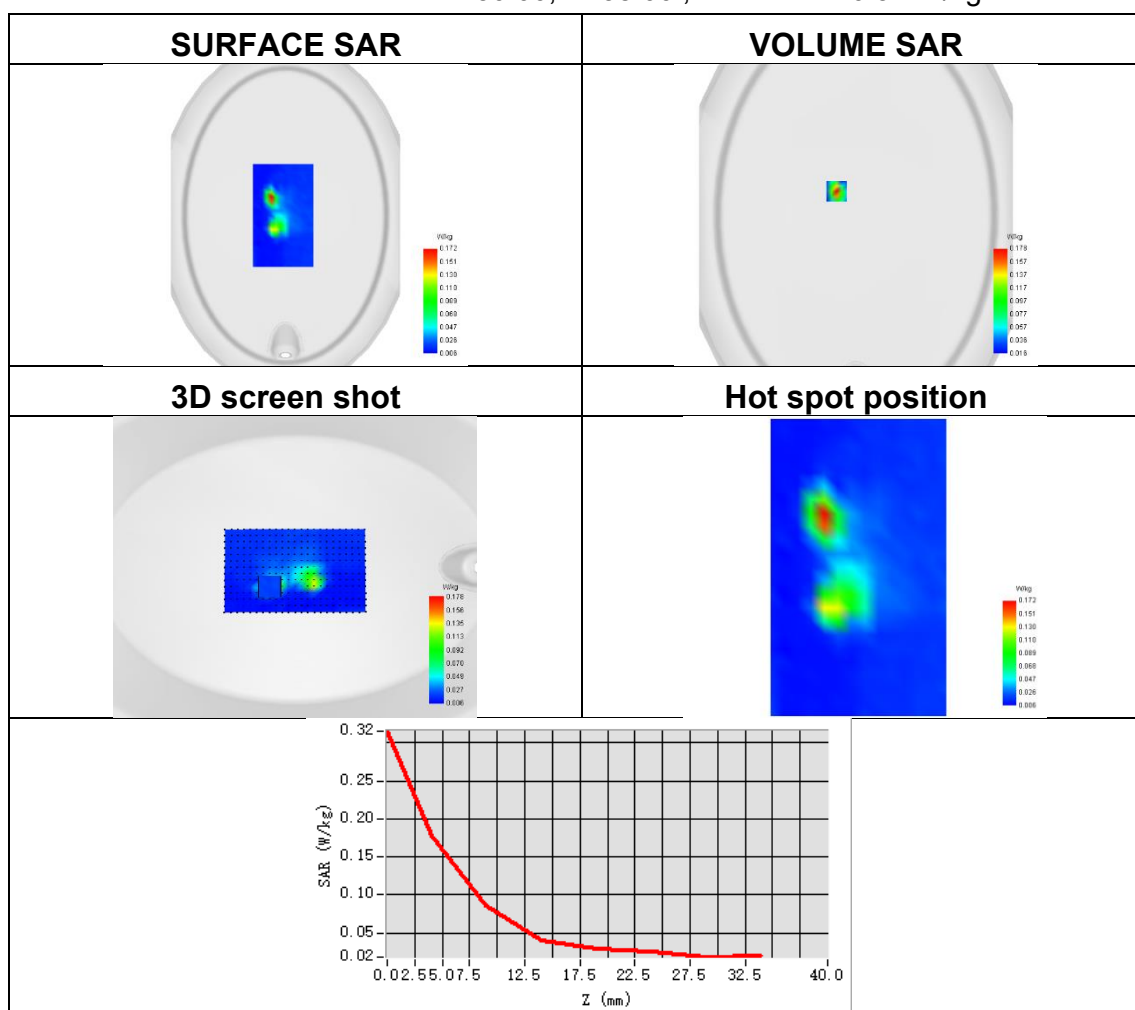




Plot 4:

Test Date	2026-07-17
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	ISM
Signal	IEEE 802.11n
Frequency	2412
SAR 10g (W/Kg)	0.074
SAR 1g (W/Kg)	0.161
Horizontal validation criteria: minimum distance (mm)	11.313708
Vertical validation criteria: SAR ratio M2/M1 (%)	48.280291
ConvF	1.03
Relative permittivity	40.19
Conductivity (S/m)	1.74

Maximum location: X=-30.00, Y=38.00 ; SAR Peak: 0.31 W/kg

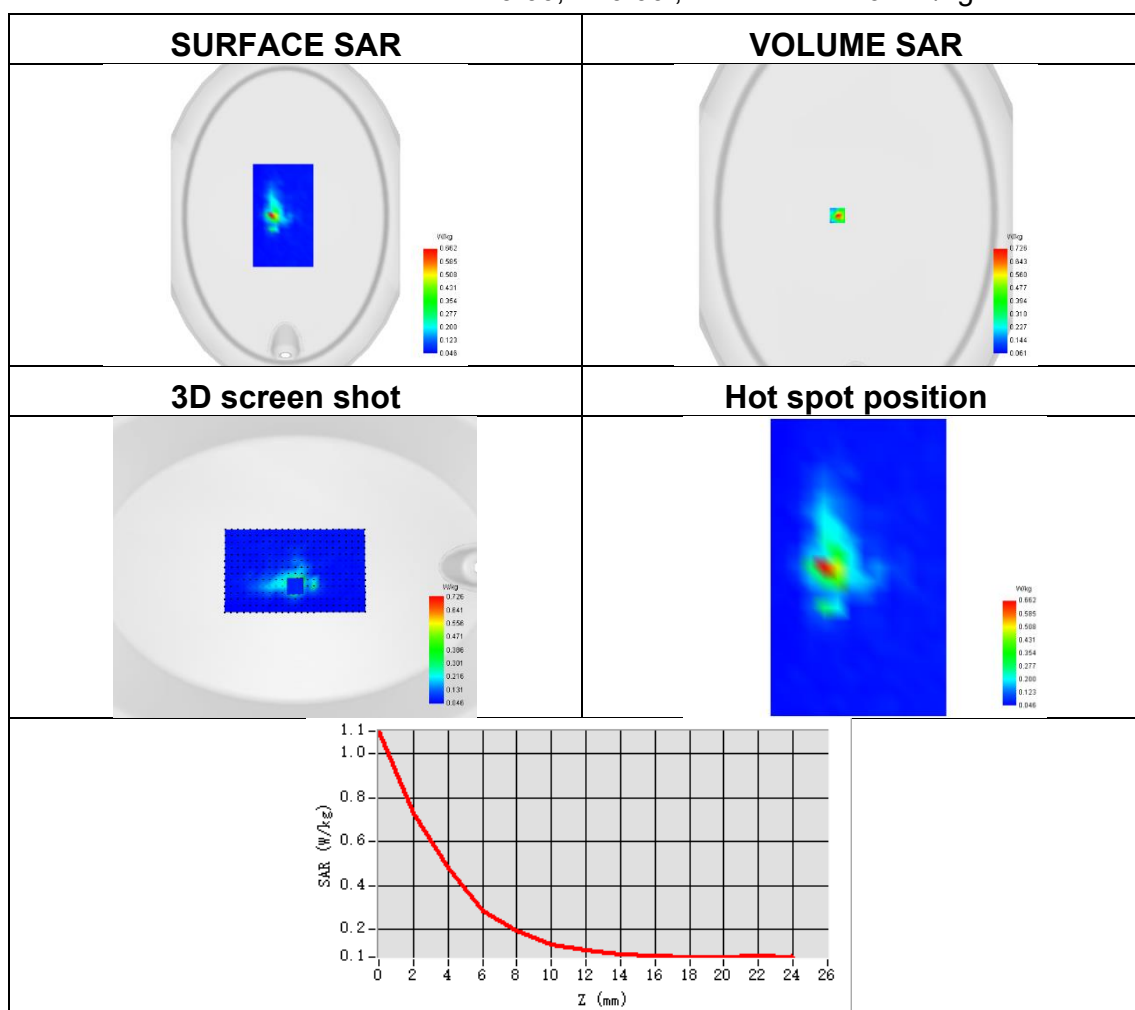




Plot 5:

Test Date	2026-07-19
Area Scan	dx=8mm dy=8mm
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Validation plane
Device Position	Back Side
Band	U-NII-1
Signal	IEEE 802.11a
Frequency	5200
SAR 10g (W/Kg)	0.166
SAR 1g (W/Kg)	0.416
Horizontal validation criteria: minimum distance (mm)	5.656854
Vertical validation criteria: SAR ratio M2/M1 (%)	66.043558
ConvF	1.08
Relative permittivity	35.78
Conductivity (S/m)	4.67

Maximum location: X=-29.00, Y=0.00 ; SAR Peak: 1.04 W/kg

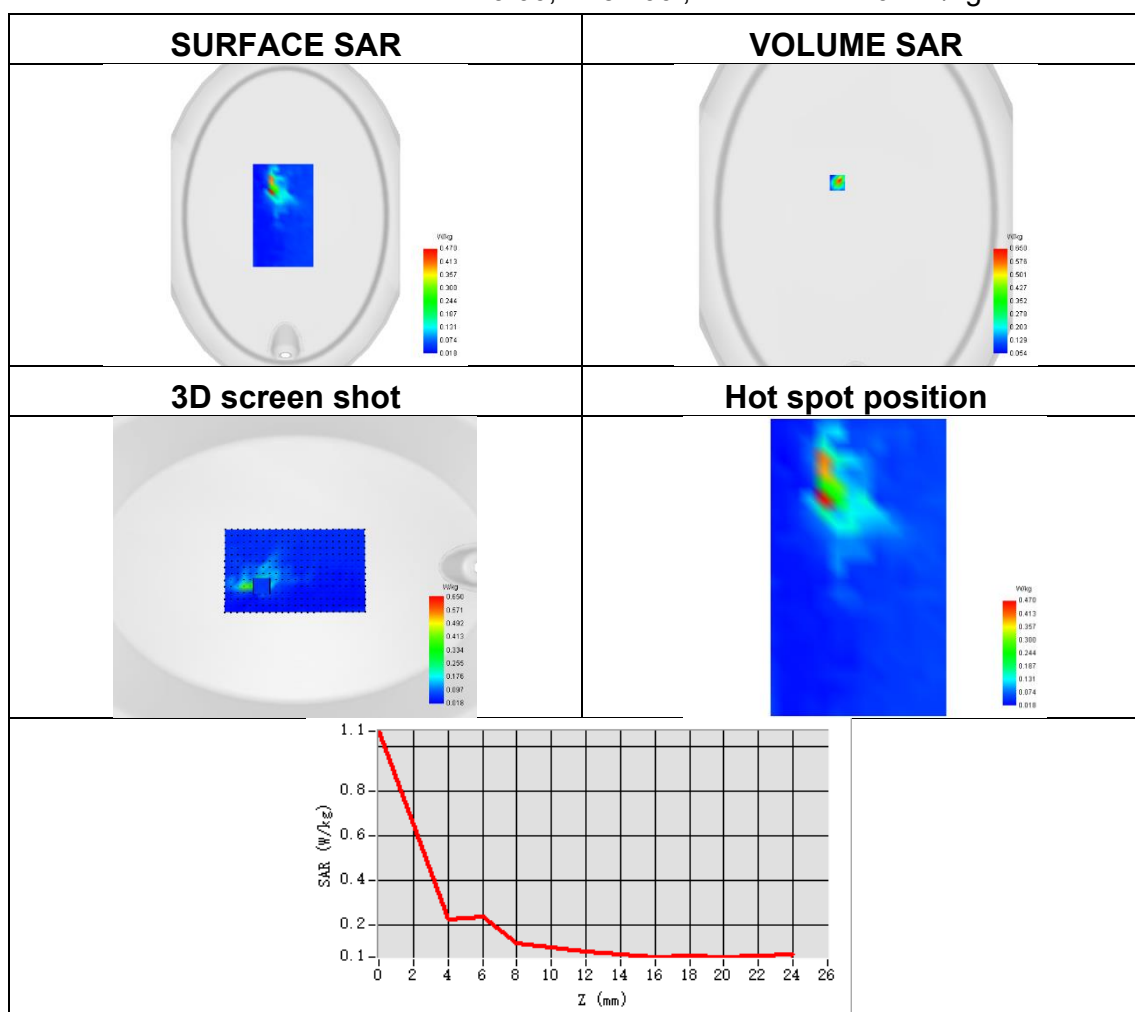




Plot 6:

Test Date	2026-07-19
Area Scan	dx=8mm dy=8mm
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Validation plane
Device Position	Back Side
Band	U-NII-1
Signal	IEEE 802.11a
Frequency	5180
SAR 10g (W/Kg)	0.127
SAR 1g (W/Kg)	0.351
Horizontal validation criteria: minimum distance (mm)	5.656854
Vertical validation criteria: SAR ratio M2/M1 (%)	60.476432
ConvF	1.08
Relative permittivity	37.01
Conductivity (S/m)	4.59

Maximum location: X=-29.00, Y=51.00 ; SAR Peak: 1.04 W/kg

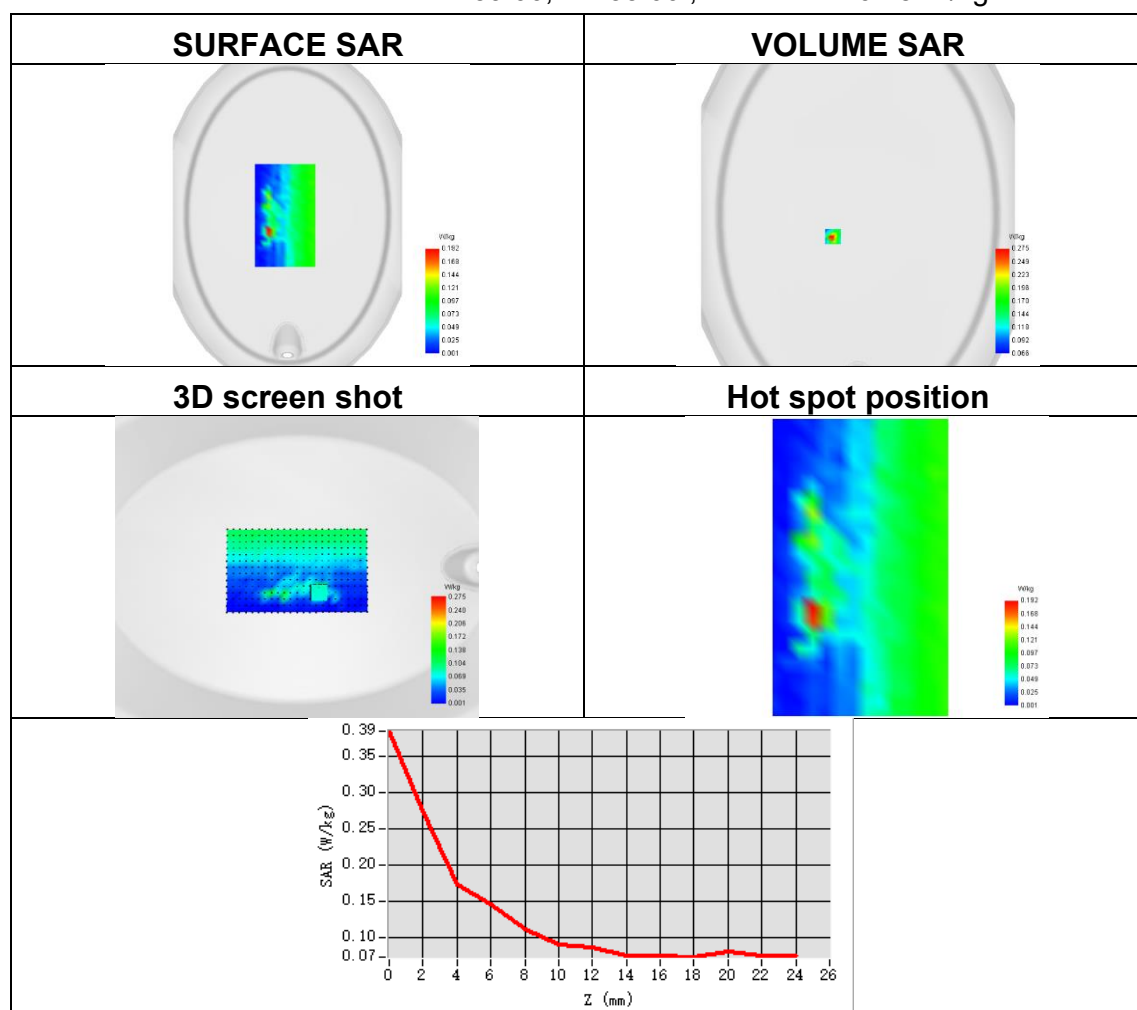




Plot 7:

Test Date	2026-07-19
Area Scan	dx=8mm dy=8mm
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Validation plane
Device Position	Back Side
Band	U-NII-1
Signal	IEEE 802.11n
Frequency	5230
SAR 10g (W/Kg)	0.093
SAR 1g (W/Kg)	0.190
Horizontal validation criteria: minimum distance (mm)	5.656854
Vertical validation criteria: SAR ratio M2/M1 (%)	68.948961
ConvF	1.08
Relative permittivity	36.71
Conductivity (S/m)	4.67

Maximum location: X=-39.00, Y=-33.00 ; SAR Peak: 0.45 W/kg

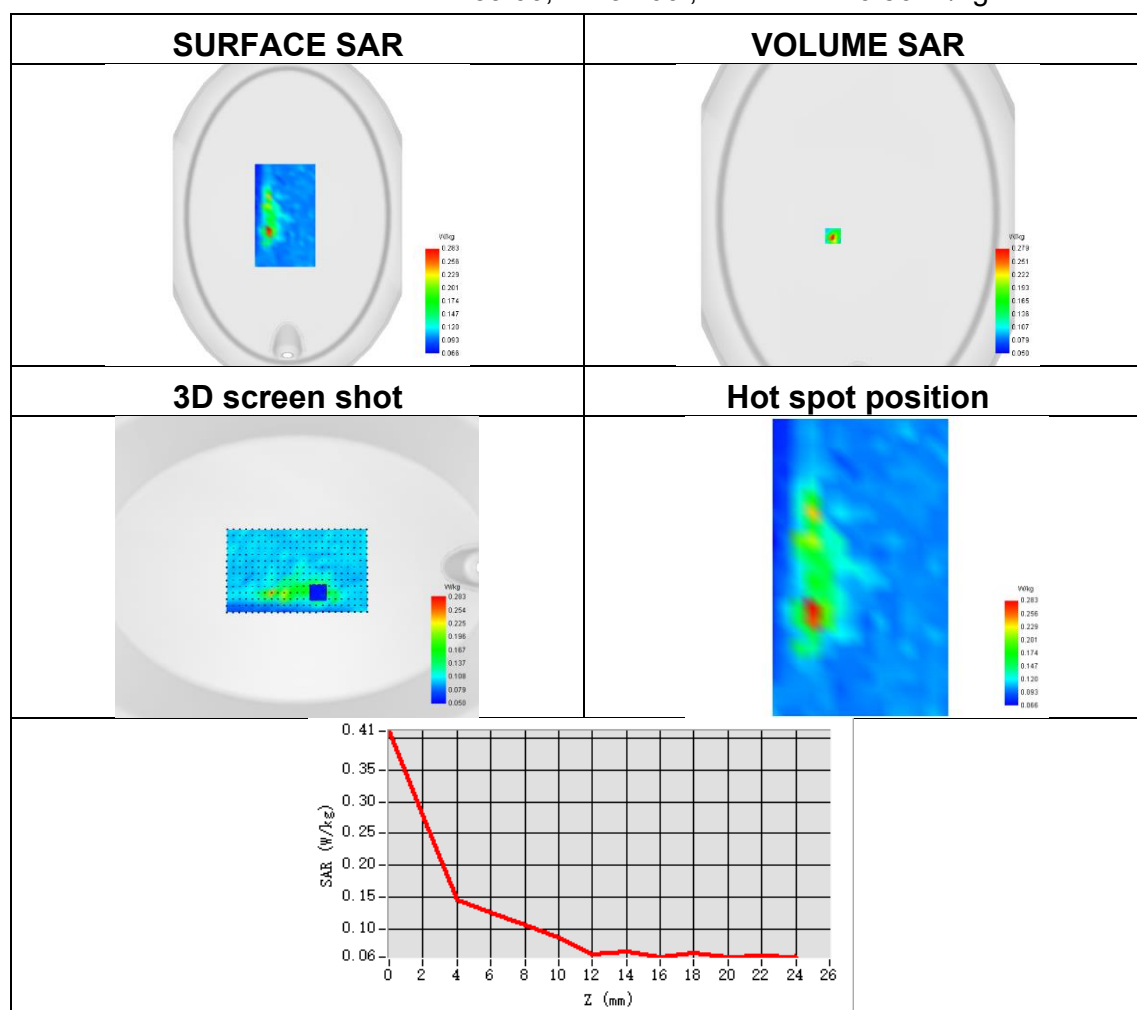




Plot 8:

Test Date	2026-07-19
Area Scan	dx=8mm dy=8mm
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Validation plane
Device Position	Back Side
Band	U-NII-1
Signal	IEEE 802.11n
Frequency	5230
SAR 10g (W/Kg)	0.091
SAR 1g (W/Kg)	0.191
Horizontal validation criteria: minimum distance (mm)	8.944272
Vertical validation criteria: SAR ratio M2/M1 (%)	63.971390
ConvF	1.08
Relative permittivity	36.71
Conductivity (S/m)	4.67

Maximum location: X=-39.00, Y=-32.00 ; SAR Peak: 0.56 W/kg

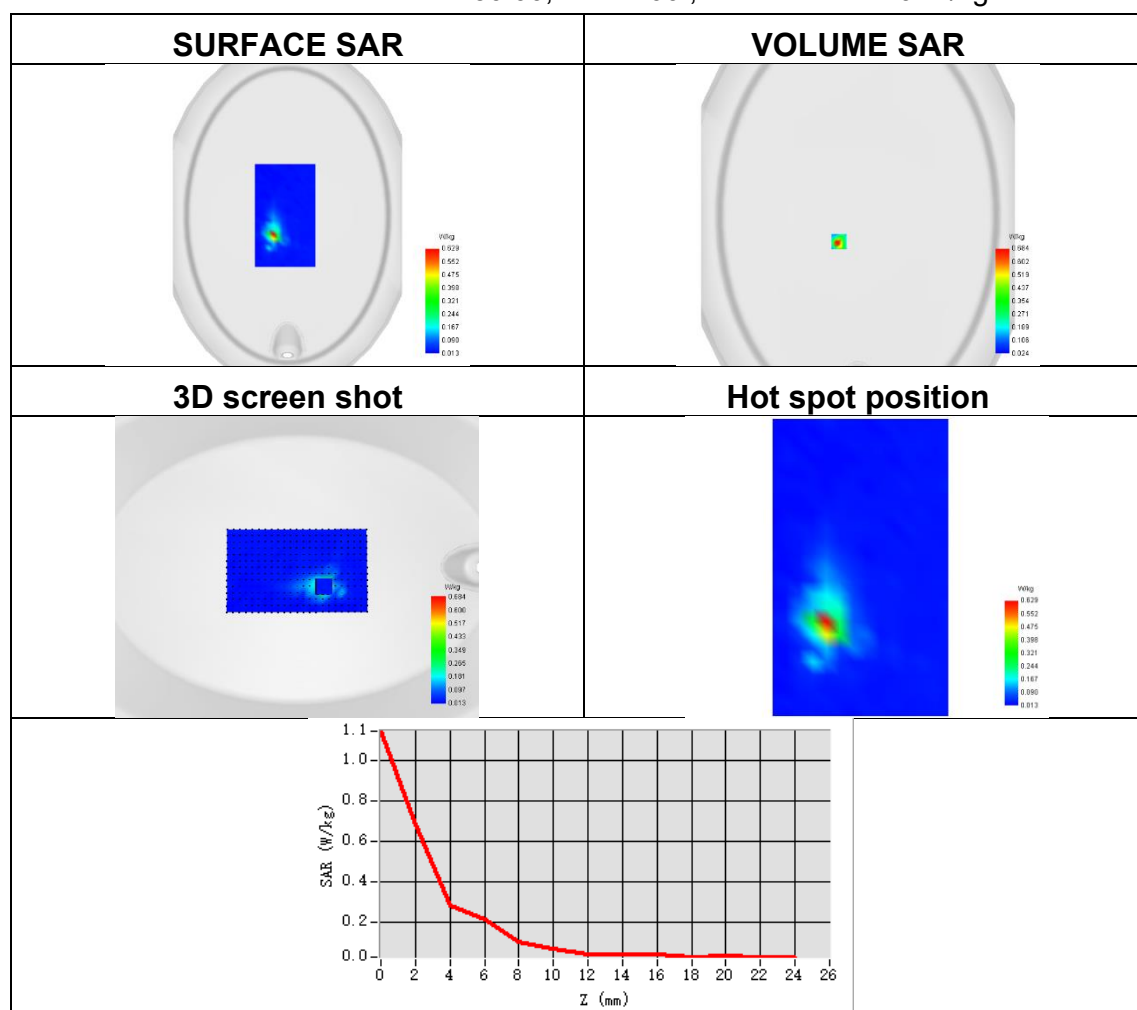




Plot 9:

Test Date	2026-07-19
Area Scan	dx=8mm dy=8mm
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Validation plane
Device Position	Back Side
Band	U-NII-2A
Signal	IEEE 802.11a
Frequency	5260
SAR 10g (W/Kg)	0.137
SAR 1g (W/Kg)	0.398
Horizontal validation criteria: minimum distance (mm)	5.656854
Vertical validation criteria: SAR ratio M2/M1 (%)	55.448129
ConvF	1.16
Relative permittivity	36.06
Conductivity (S/m)	4.73

Maximum location: X=-30.00, Y=-41.00 ; SAR Peak: 1.20 W/kg

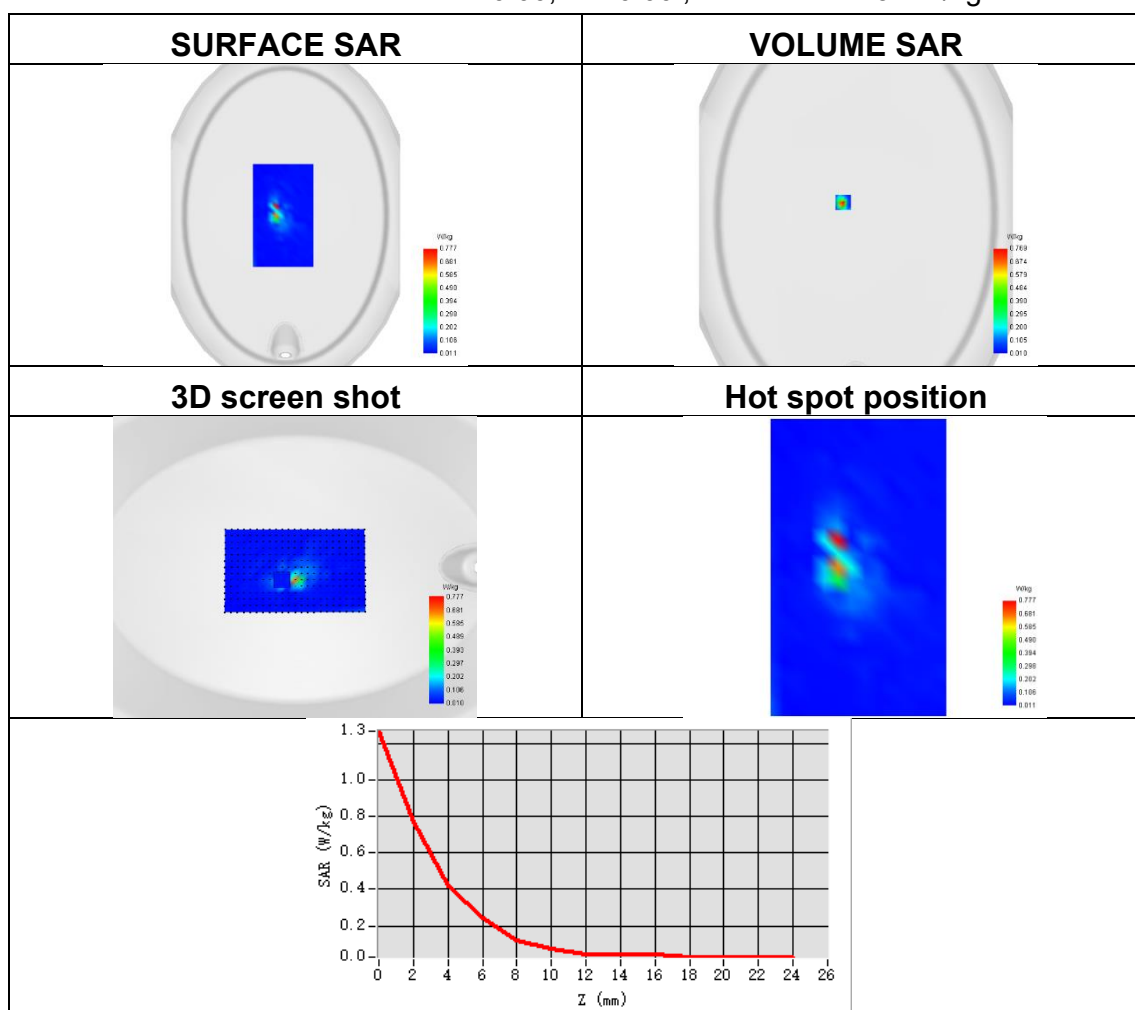




Plot 10:

Test Date	2026-07-19
Area Scan	dx=8mm dy=8mm
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Validation plane
Device Position	Back Side
Band	U-NII-2A
Signal	IEEE 802.11a
Frequency	5260
SAR 10g (W/Kg)	0.109
SAR 1g (W/Kg)	0.402
Horizontal validation criteria: minimum distance (mm)	5.656854
Vertical validation criteria: SAR ratio M2/M1 (%)	54.017908
ConvF	1.16
Relative permittivity	36.06
Conductivity (S/m)	4.73

Maximum location: X=-20.00, Y=20.00 ; SAR Peak: 1.32 W/kg

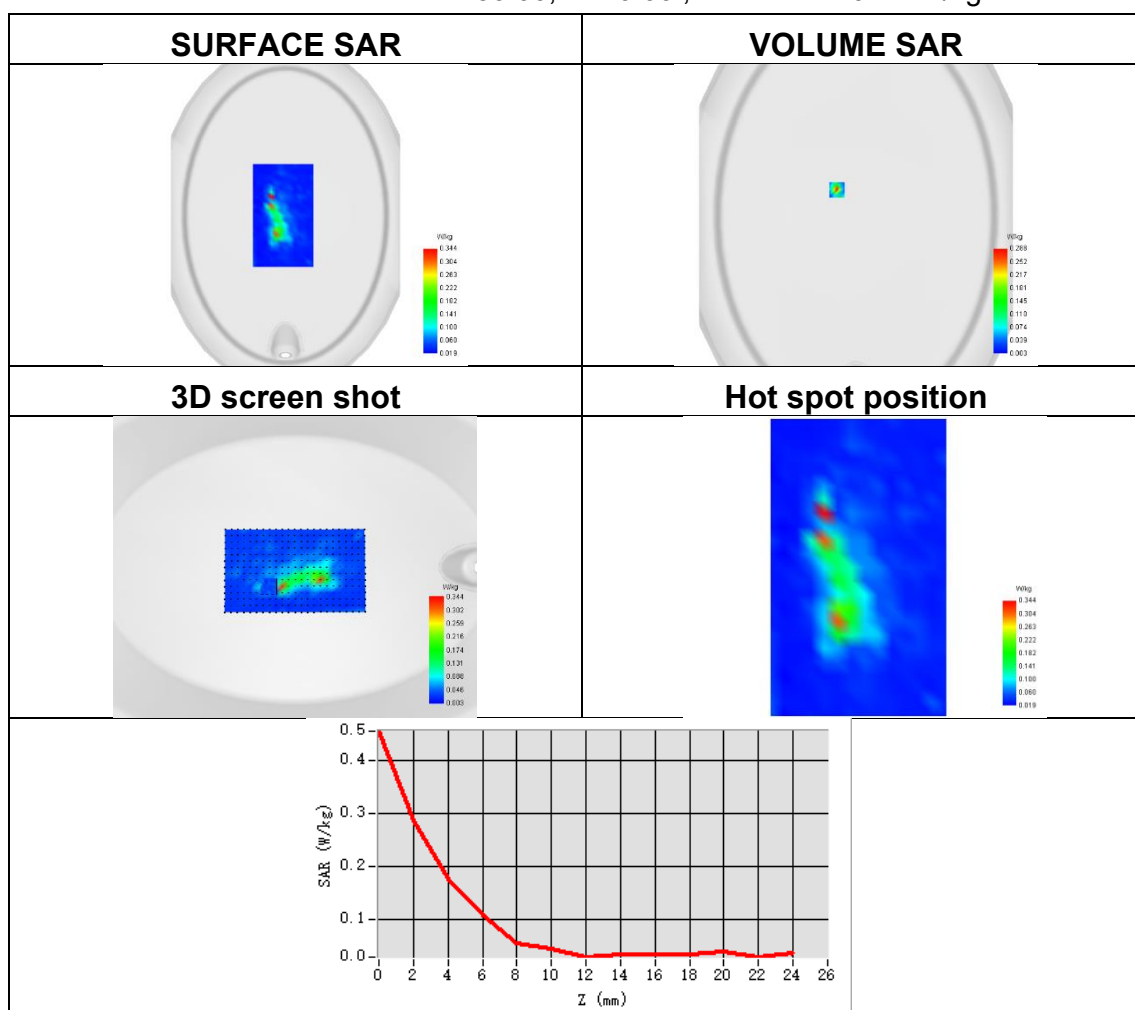




Plot 11:

Test Date	2026-07-19
Area Scan	dx=8mm dy=8mm
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Validation plane
Device Position	Back Side
Band	U-NII-2A
Signal	IEEE 802.11n
Frequency	5270
SAR 10g (W/Kg)	0.051
SAR 1g (W/Kg)	0.134
Horizontal validation criteria: minimum distance (mm)	5.656854
Vertical validation criteria: SAR ratio M2/M1 (%)	61.552750
ConvF	1.16
Relative permittivity	36.37
Conductivity (S/m)	4.77

Maximum location: X=-30.00, Y=40.00 ; SAR Peak: 0.47 W/kg

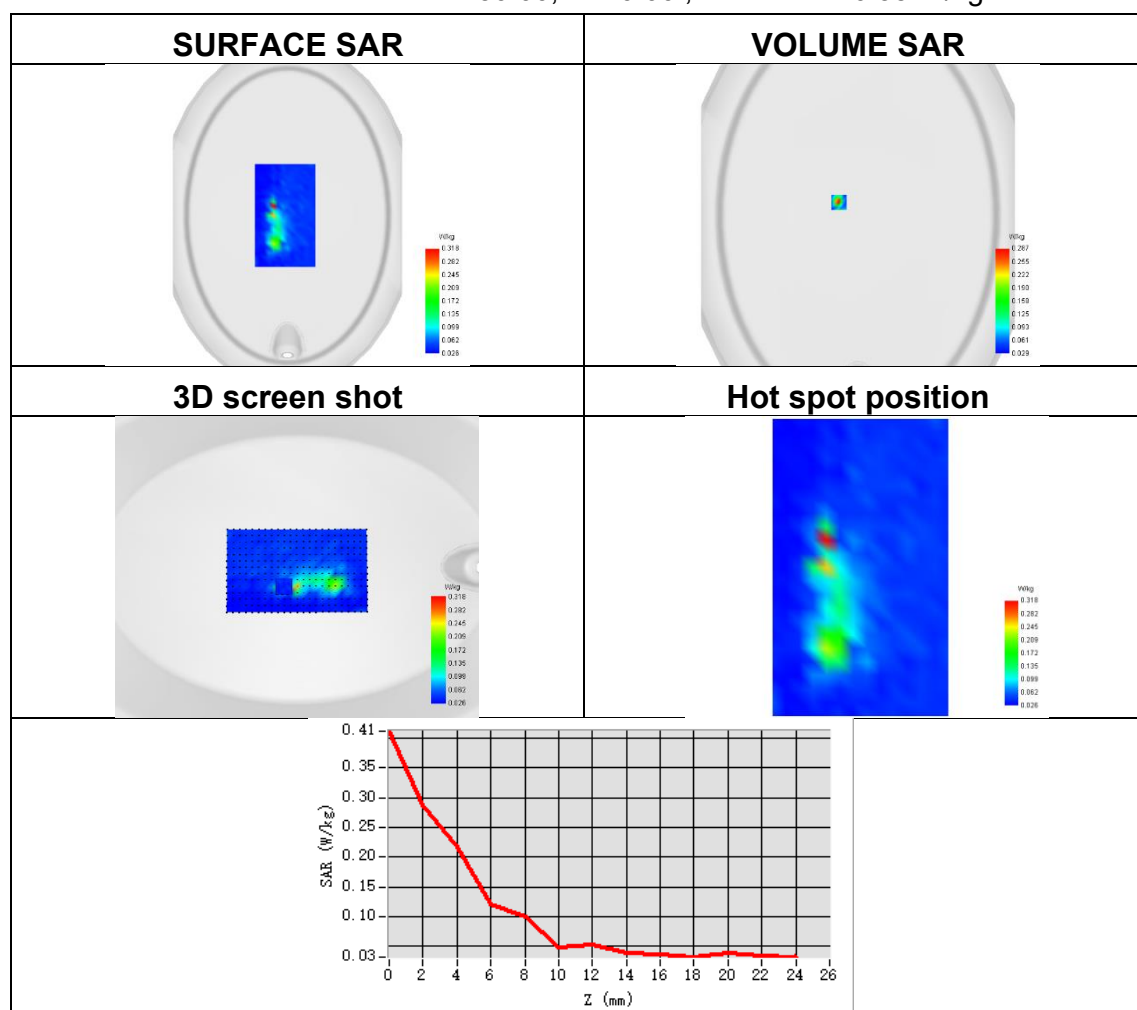




Plot 12:

Test Date	2026-07-19
Area Scan	dx=8mm dy=8mm
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Validation plane
Device Position	Back Side
Band	U-NII-2A
Signal	IEEE 802.11n
Frequency	5270
SAR 10g (W/Kg)	0.054
SAR 1g (W/Kg)	0.142
Horizontal validation criteria: minimum distance (mm)	5.656854
Vertical validation criteria: SAR ratio M2/M1 (%)	75.893998
ConvF	1.16
Relative permittivity	36.37
Conductivity (S/m)	4.77

Maximum location: X=-30.00, Y=20.00 ; SAR Peak: 0.35 W/kg

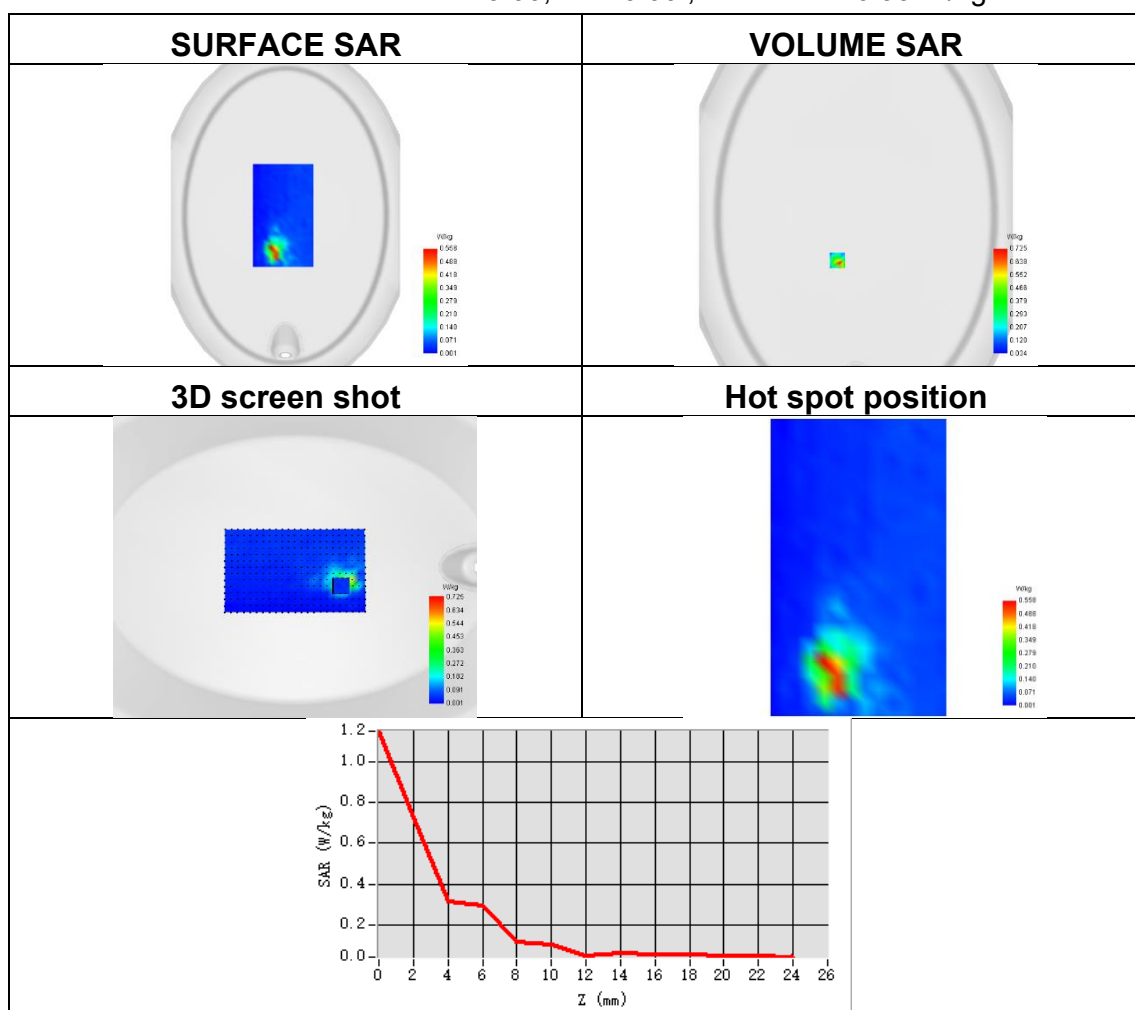




Plot 13:

Test Date	2026-07-29
Area Scan	dx=8mm dy=8mm
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Validation plane
Device Position	Back Side
Band	U-NII-2C
Signal	IEEE 802.11a
Frequency	5580
SAR 10g (W/Kg)	0.117
SAR 1g (W/Kg)	0.353
Horizontal validation criteria: minimum distance (mm)	8.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	68.705812
ConvF	1.07
Relative permittivity	35.47
Conductivity (S/m)	5.07

Maximum location: X=-29.00, Y=-70.00 ; SAR Peak: 0.93 W/kg

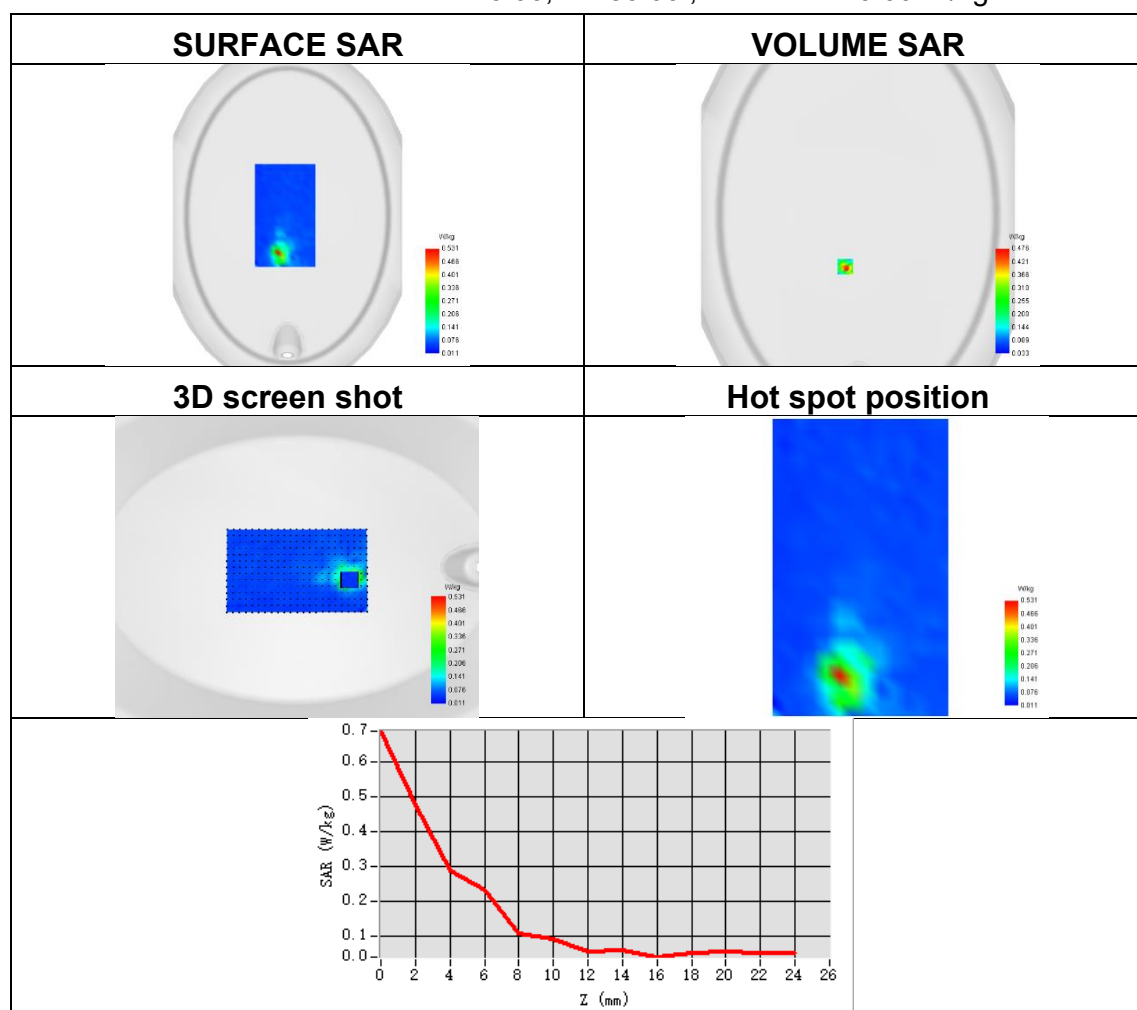




Plot 14:

Test Date	2026-07-29
Area Scan	dx=8mm dy=8mm
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Validation plane
Device Position	Back Side
Band	U-NII-2C
Signal	IEEE 802.11a
Frequency	5580
SAR 10g (W/Kg)	0.103
SAR 1g (W/Kg)	0.261
Horizontal validation criteria: minimum distance (mm)	8.944272
Vertical validation criteria: SAR ratio M2/M1 (%)	78.099184
ConvF	1.07
Relative permittivity	35.47
Conductivity (S/m)	5.07

Maximum location: X=-20.00, Y=-80.00 ; SAR Peak: 0.60 W/kg

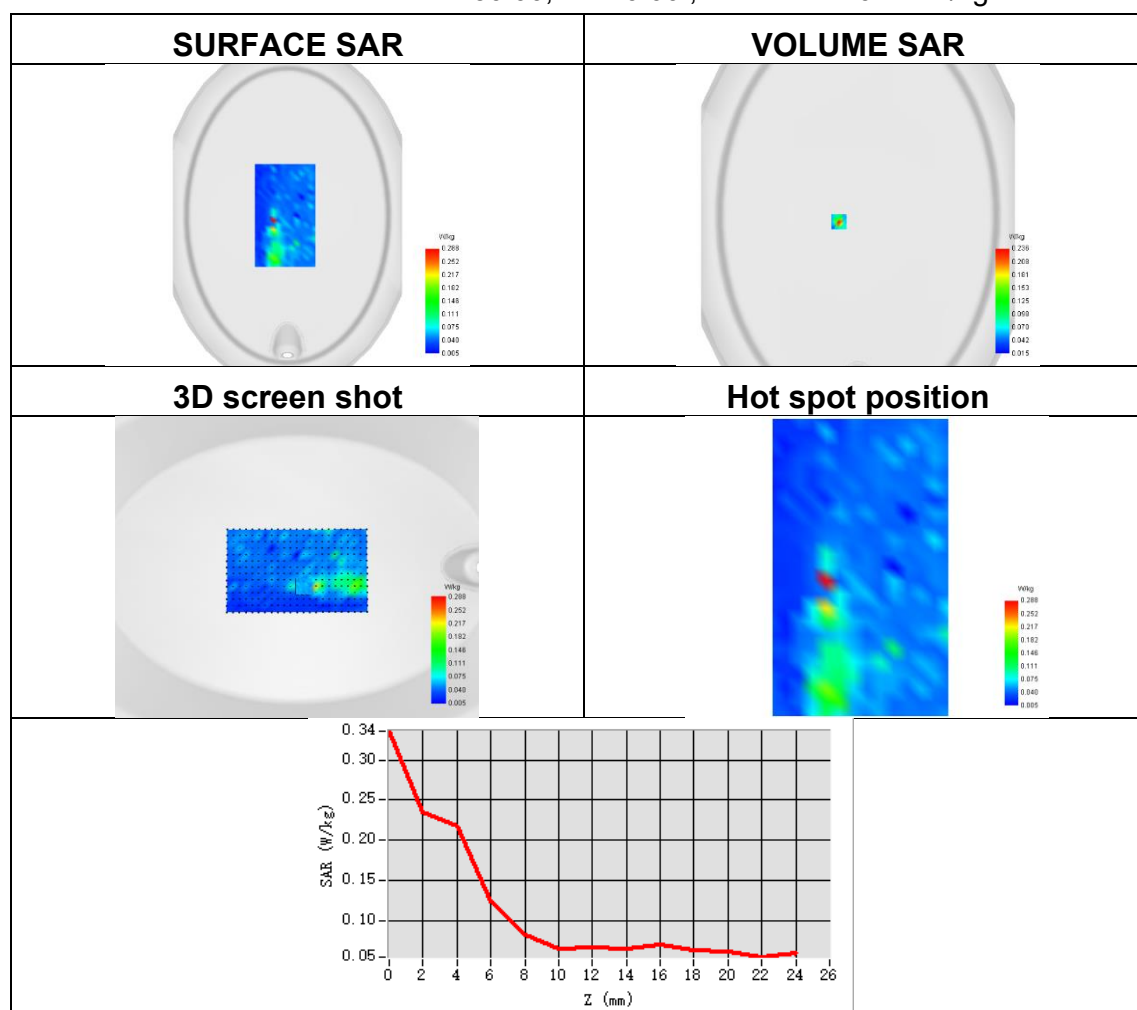




Plot 15:

Test Date	2026-07-29
Area Scan	dx=8mm dy=8mm
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Validation plane
Device Position	Back Side
Band	U-NII-2C
Signal	IEEE 802.11n
Frequency	5670
SAR 10g (W/Kg)	0.061
SAR 1g (W/Kg)	0.120
Horizontal validation criteria: minimum distance (mm)	8.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	92.278025
ConvF	1.07
Relative permittivity	35.81
Conductivity (S/m)	5.20

Maximum location: X=-30.00, Y=-10.00 ; SAR Peak: 0.27 W/kg

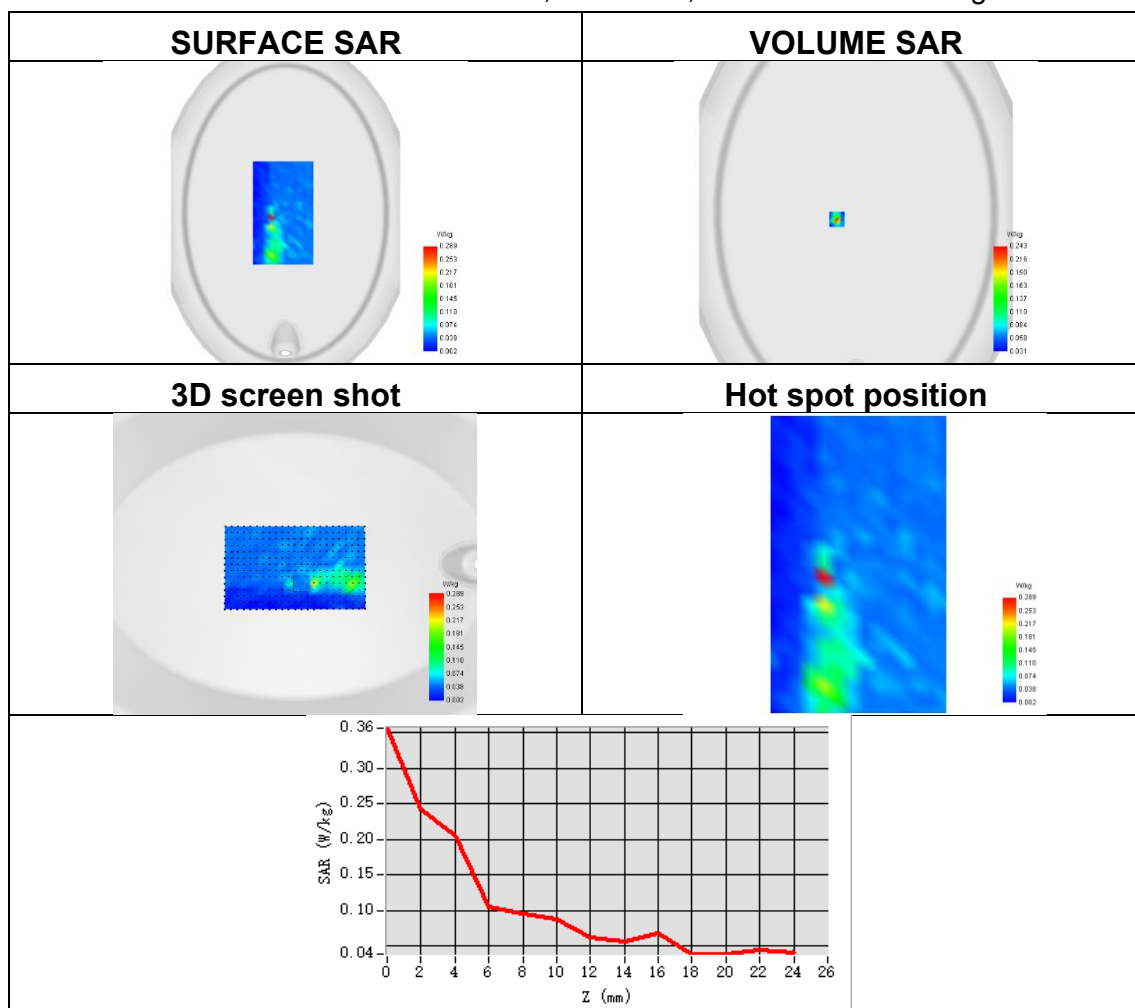




Plot 16:

Test Date	2026-07-29
Area Scan	dx=8mm dy=8mm
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Validation plane
Device Position	Back Side
Band	U-NII-2C
Signal	IEEE 802.11n
Frequency	5670
SAR 10g (W/Kg)	0.055
SAR 1g (W/Kg)	0.118
Horizontal validation criteria: minimum distance (mm)	8.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	84.356972
ConvF	1.07
Relative permittivity	35.81
Conductivity (S/m)	5.20

Maximum location: X=-30.00, Y=-10.00 ; SAR Peak: 0.26 W/kg

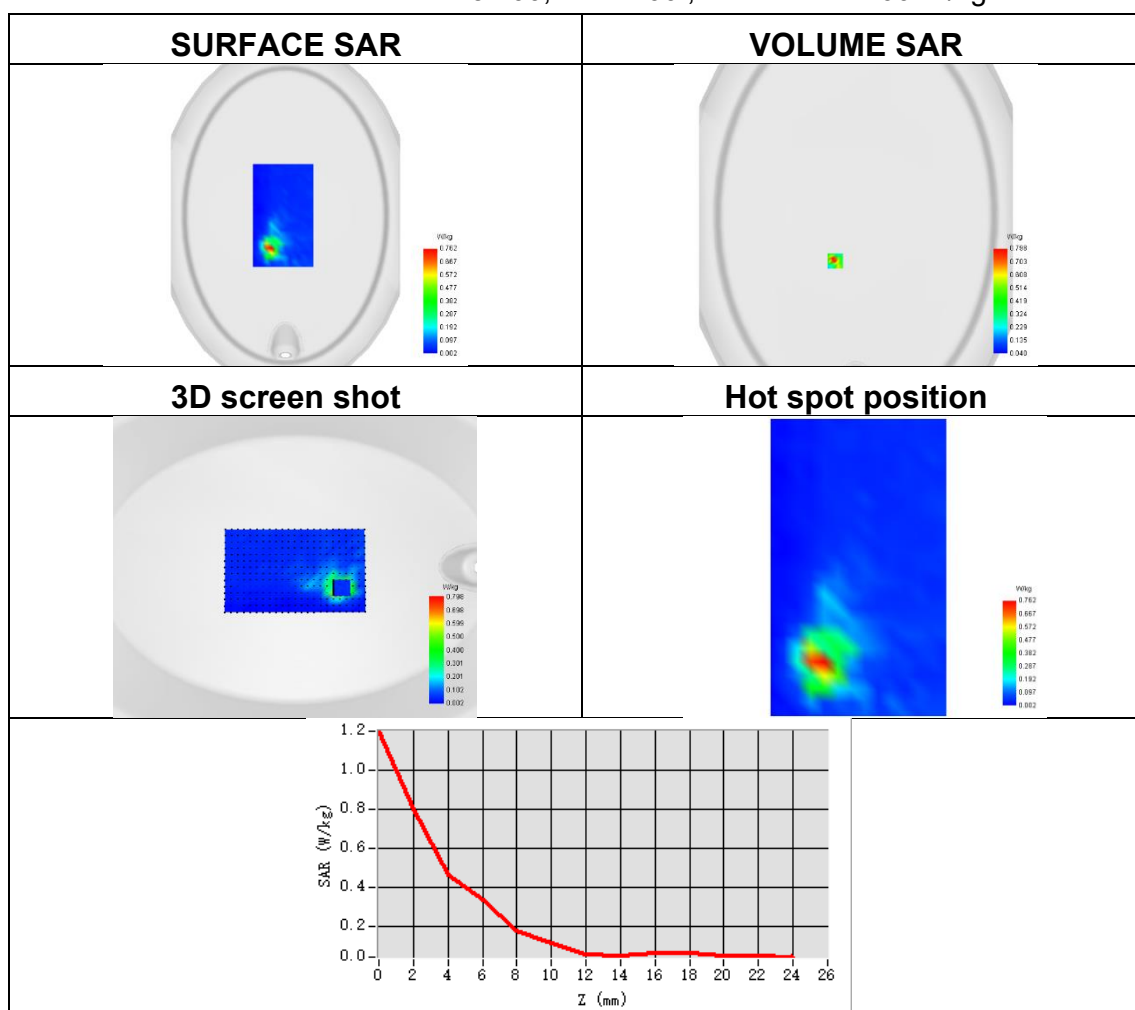




Plot 17:

Test Date	2026-07-29
Area Scan	dx=8mm dy=8mm
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Validation plane
Device Position	Back Side
Band	U-NII-3
Signal	IEEE 802.11a
Frequency	5825
SAR 10g (W/Kg)	0.164
SAR 1g (W/Kg)	0.410
Horizontal validation criteria: minimum distance (mm)	5.656854
Vertical validation criteria: SAR ratio M2/M1 (%)	74.168265
ConvF	1.19
Relative permittivity	35.89
Conductivity (S/m)	5.28

Maximum location: X=-32.00, Y=-71.00 ; SAR Peak: 1.00 W/kg

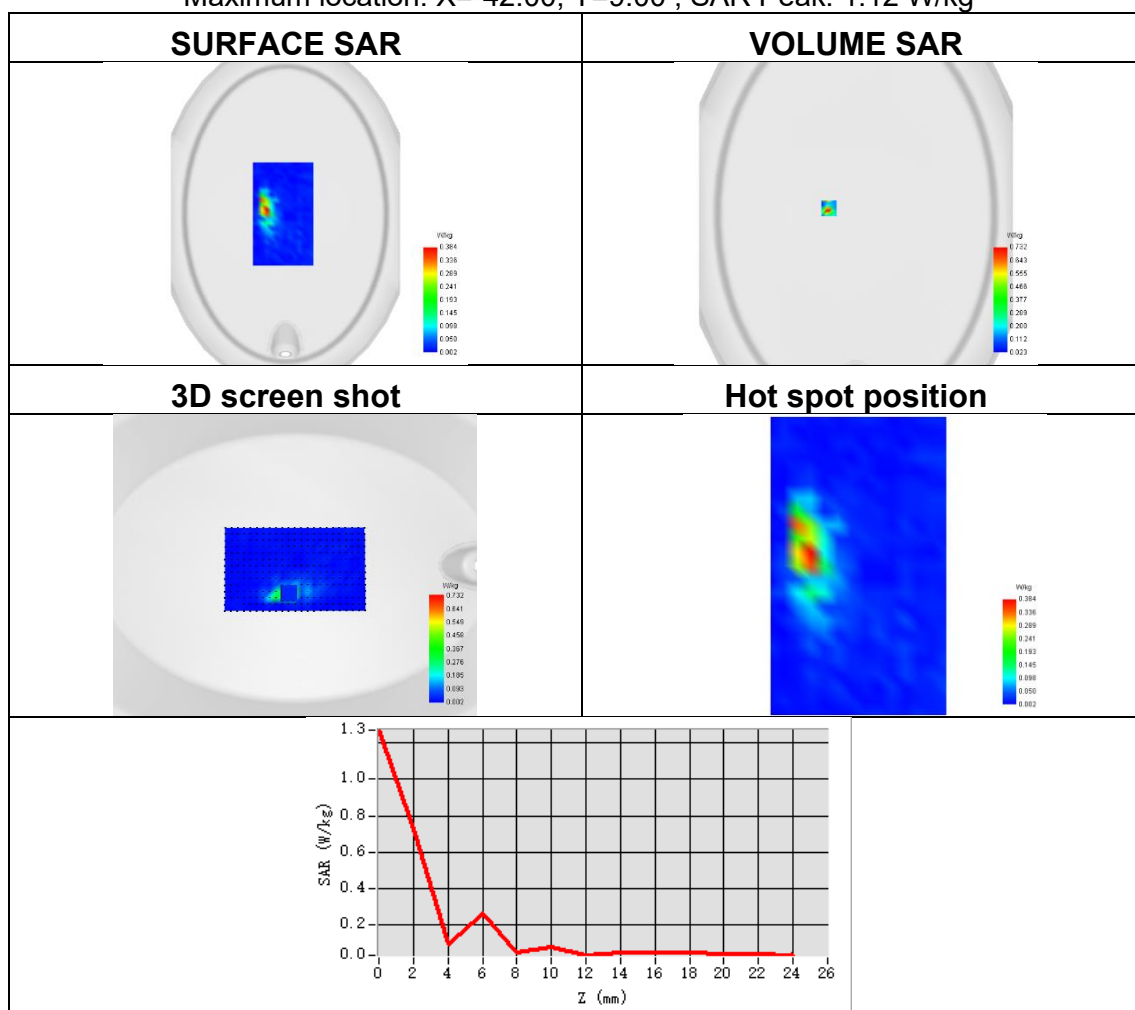




Plot 18:

Test Date	2026-07-29
Area Scan	dx=8mm dy=8mm
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Validation plane
Device Position	Back Side
Band	U-NII-3
Signal	IEEE 802.11a
Frequency	5785
SAR 10g (W/Kg)	0.107
SAR 1g (W/Kg)	0.371
Horizontal validation criteria: minimum distance (mm)	5.656854
Vertical validation criteria: SAR ratio M2/M1 (%)	63.393750
ConvF	1.19
Relative permittivity	35.87
Conductivity (S/m)	5.24

Maximum location: X=-42.00, Y=9.00 ; SAR Peak: 1.12 W/kg

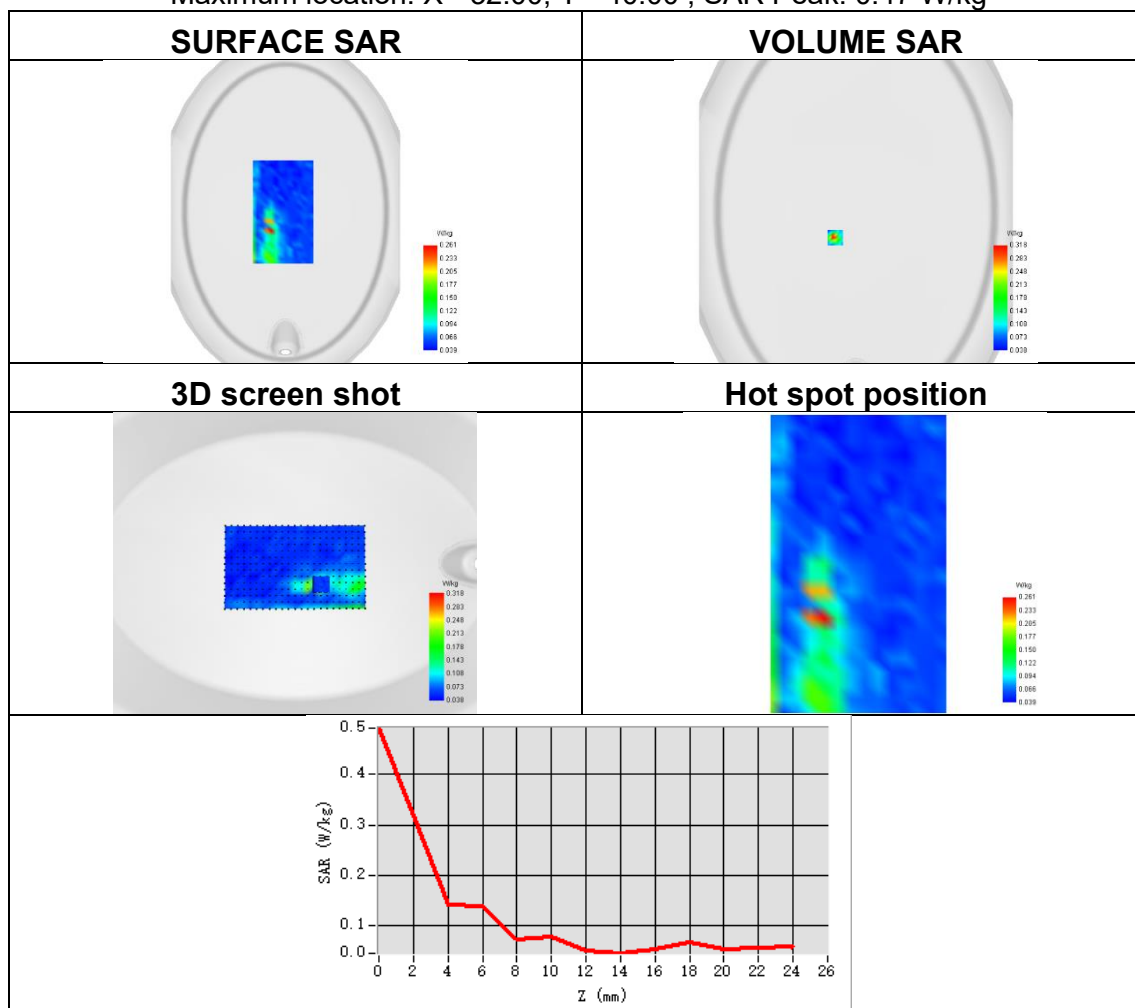




Plot 19:

Test Date	2026-07-29
Area Scan	dx=8mm dy=8mm
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Validation plane
Device Position	Back Side
Band	U-NII-3
Signal	IEEE 802.11n
Frequency	5785
SAR 10g (W/Kg)	0.078
SAR 1g (W/Kg)	0.178
Horizontal validation criteria: minimum distance (mm)	8.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	69.994530
ConvF	1.19
Relative permittivity	35.87
Conductivity (S/m)	5.24

Maximum location: X=-32.00, Y=-40.00 ; SAR Peak: 0.47 W/kg

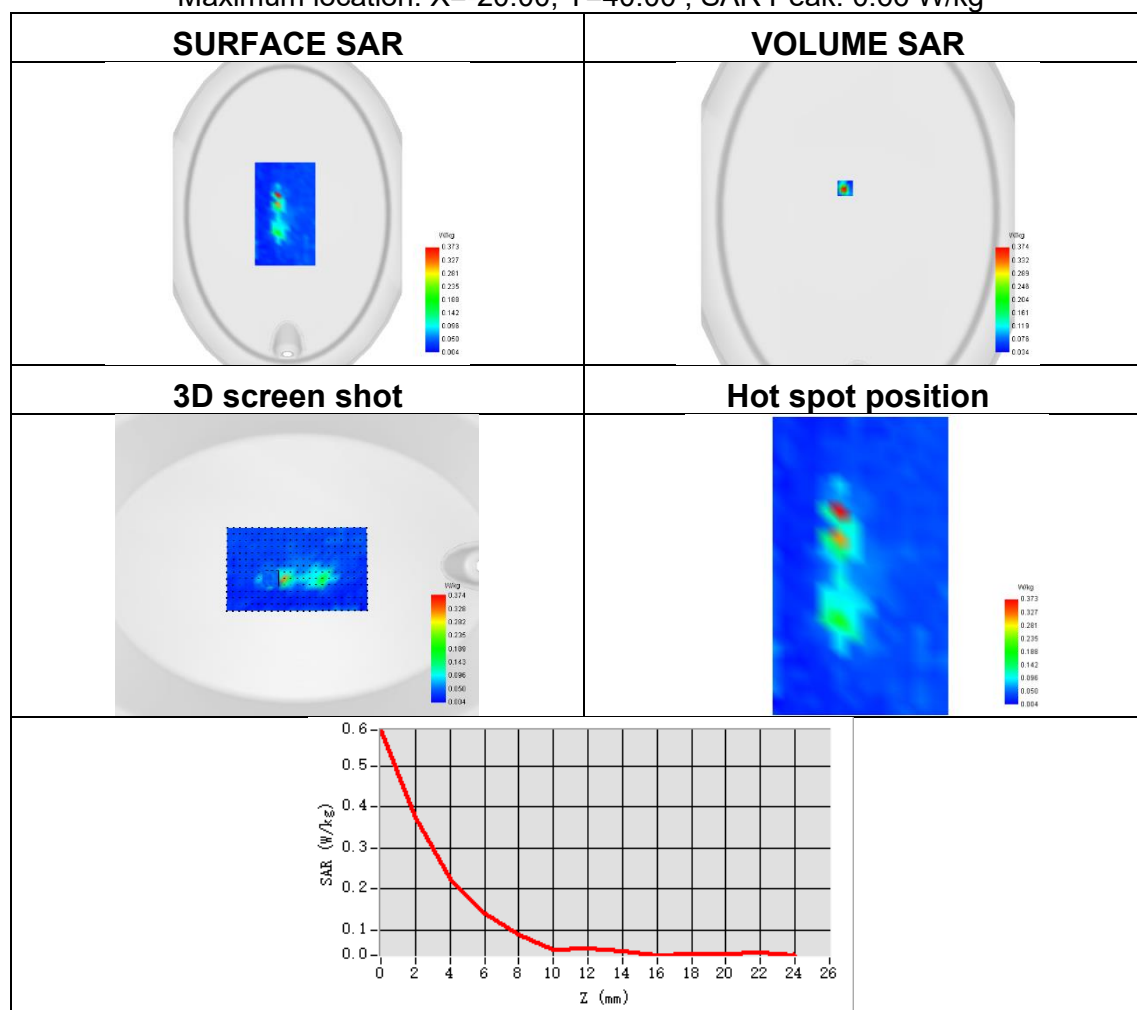




Plot 20:

Test Date	2026-07-29
Area Scan	dx=8mm dy=8mm
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Validation plane
Device Position	Back Side
Band	U-NII-3
Signal	IEEE 802.11n
Frequency	5785
SAR 10g (W/Kg)	0.065
SAR 1g (W/Kg)	0.199
Horizontal validation criteria: minimum distance (mm)	8.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	59.677401
ConvF	1.19
Relative permittivity	36.25
Conductivity (S/m)	5.24

Maximum location: X=-20.00, Y=40.00 ; SAR Peak: 0.66 W/kg

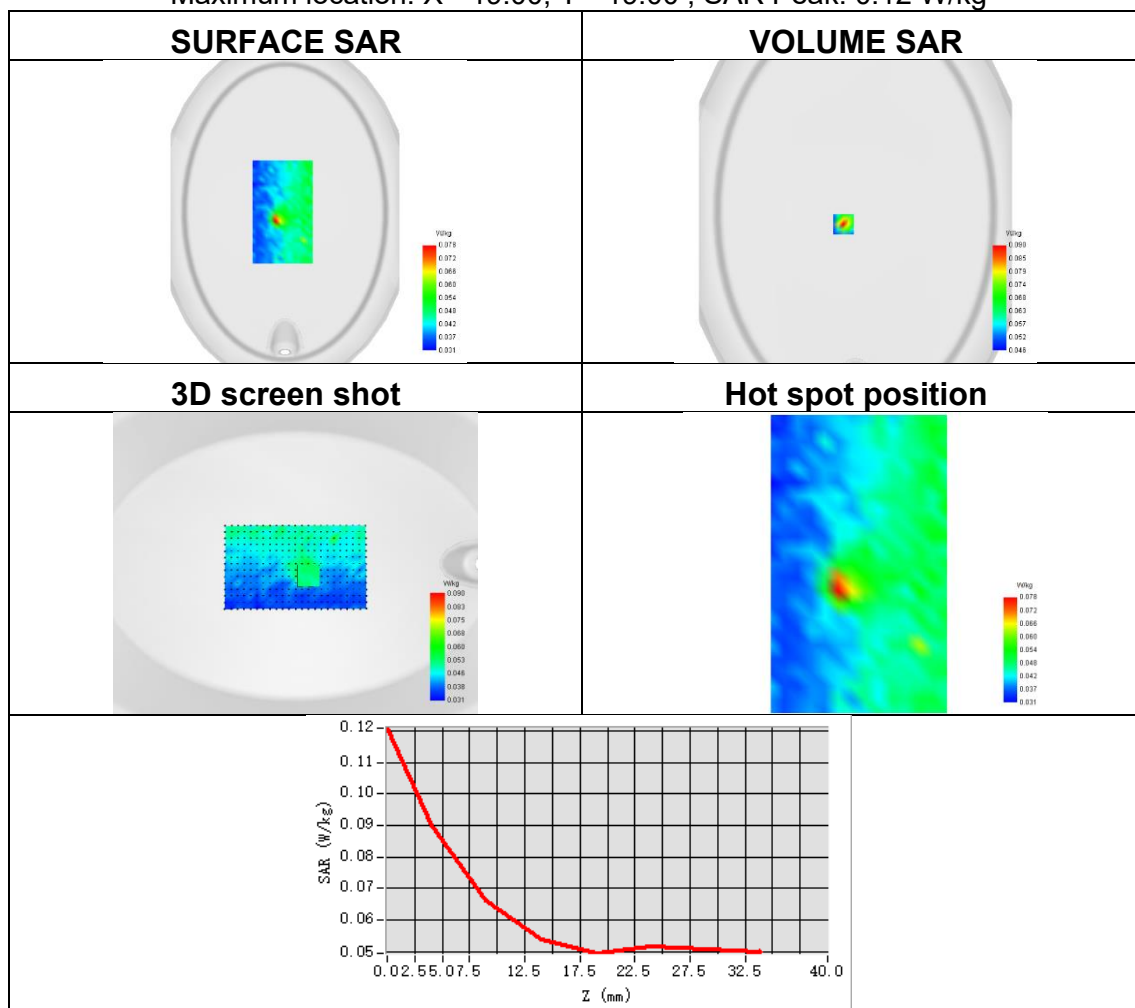




Plot 21:

Test Date	2026-07-17
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	Bluetooth
Signal	Bluetooth
Frequency	2441
SAR 10g (W/Kg)	0.061
SAR 1g (W/Kg)	0.085
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	73.594007
ConvF	1.03
Relative permittivity	39.92
Conductivity (S/m)	1.78

Maximum location: X=-19.00, Y=-19.00 ; SAR Peak: 0.12 W/kg

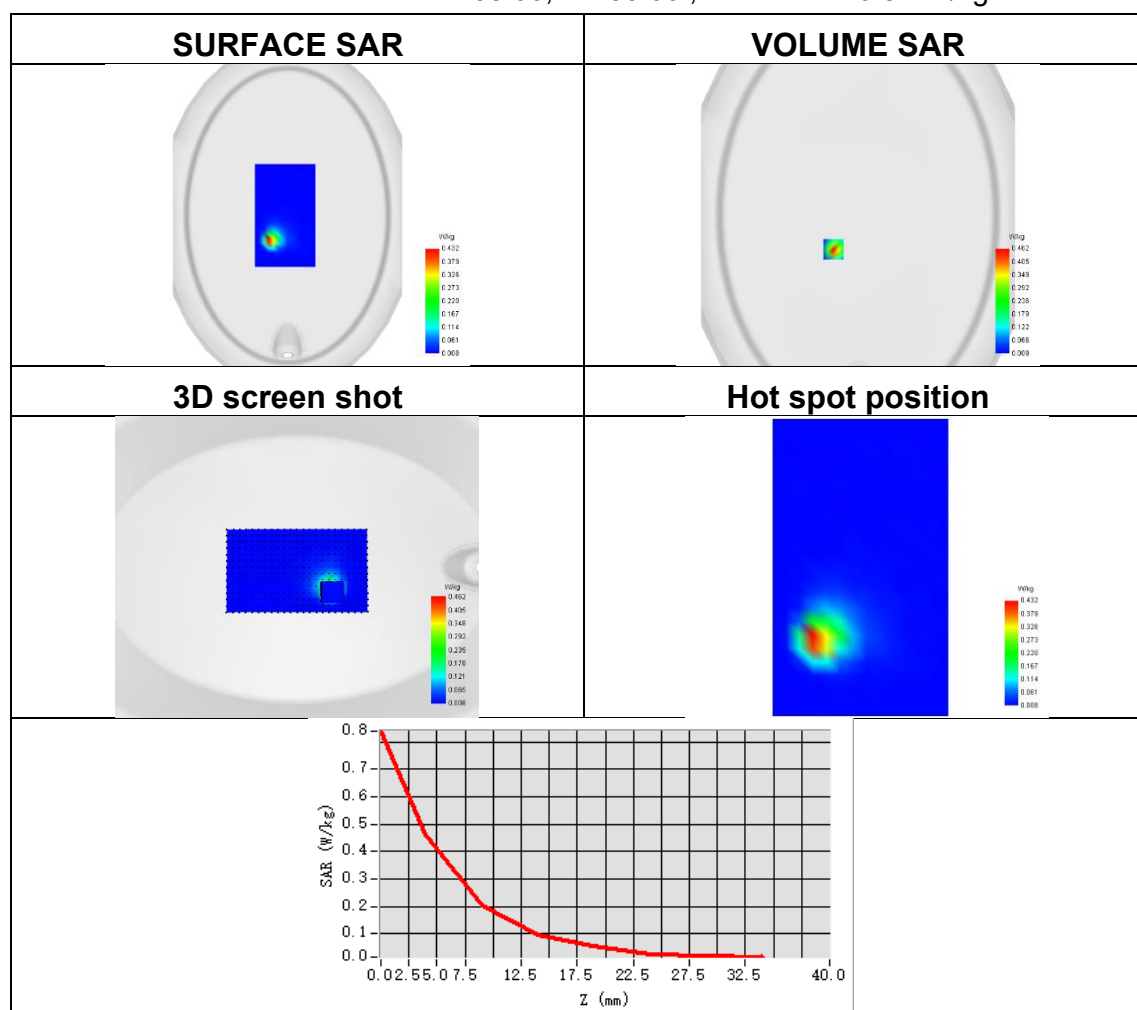




Plot 22:

Test Date	2026-08-03
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	ISM
Signal	IEEE 802.11b
Frequency	2437
SAR 10g (W/Kg)	0.183
SAR 1g (W/Kg)	0.433
Horizontal validation criteria: minimum distance (mm)	11.313708
Vertical validation criteria: SAR ratio M2/M1 (%)	44.218123
ConvF	1.03
Relative permittivity	40.43
Conductivity (S/m)	1.80

Maximum location: X=-38.00, Y=-53.00 ; SAR Peak: 0.84 W/kg

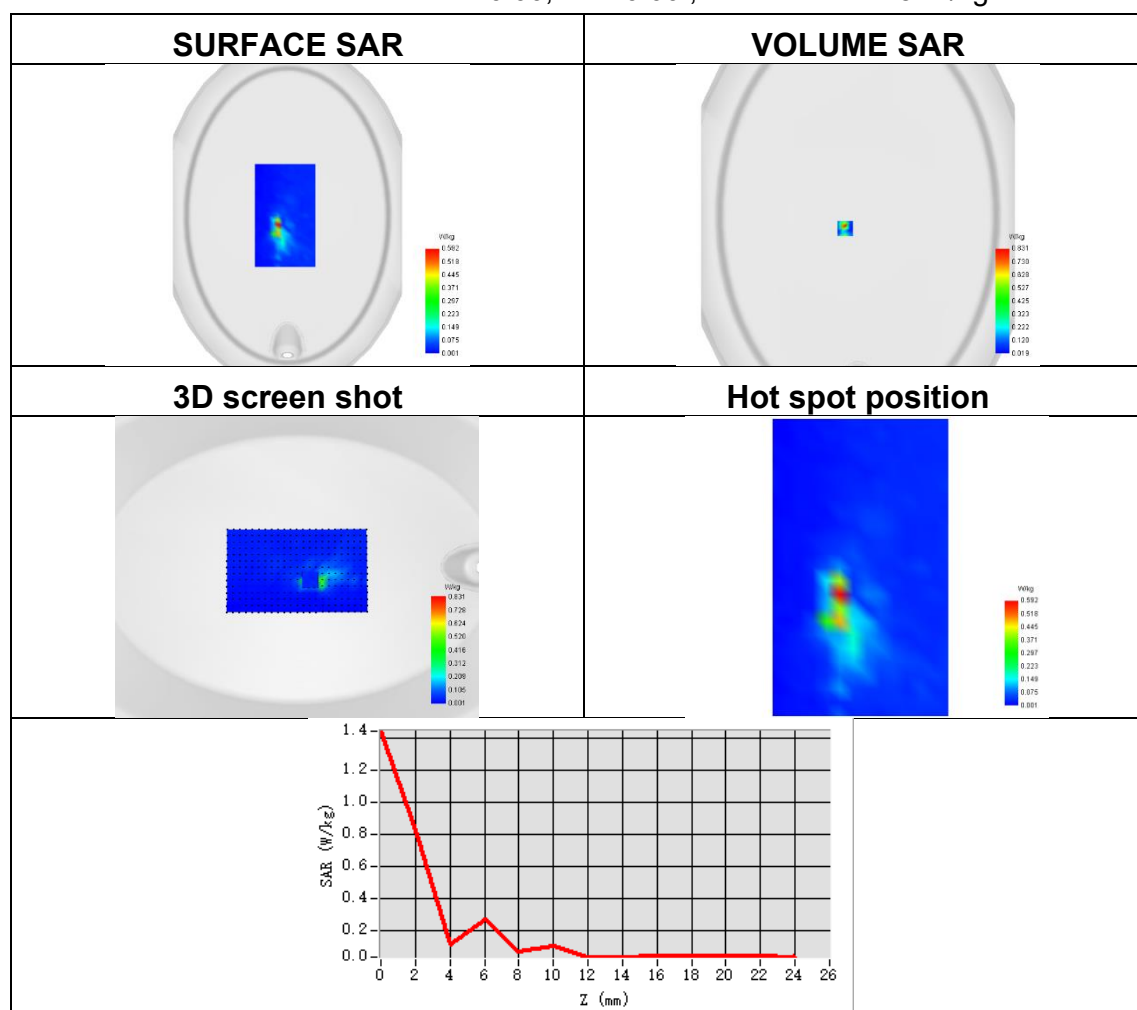




Plot 23:

Test Date	2026-08-03
Area Scan	dx=8mm dy=8mm
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Validation plane
Device Position	Back Side
Band	U-NII-1
Signal	IEEE 802.11a
Frequency	5200
SAR 10g (W/Kg)	0.096
SAR 1g (W/Kg)	0.386
Horizontal validation criteria: minimum distance (mm)	4.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	56.060456
ConvF	1.08
Relative permittivity	35.66
Conductivity (S/m)	4.59

Maximum location: X=-20.00, Y=-20.00 ; SAR Peak: 1.45 W/kg





Appendix C. Probe Calibration and Dipole Calibration Report

Refer the appendix Calibration Report.

※※※※※END OF THE REPORT※※※※※