



SAR TEST REPORT

Report No.: STS2508161H01

Issued for

Shenzhen Gotron Electronic CO.,LTD.

7B01, Building A, Block 1, Anhongji Tianyao Plaza, Longhua District, Shenzhen City, Guangdong Province, China

Product Name: Smart Phone

Brand Name: ulefone

Model Name: RugKing 3 Pro

Series Model(s): GQ3128, RugKing 3, RugKing 3 Ultra, RugKing 3E, RugKing 3S, RugKing 3 Lite, RugKing 3 Pro+, RugKing 3s, RugKing 3s Pro

Test Standards: EN 50360: 2017+A1:2023
EN 50566: 2017+A1:2023
EN IEC/IEEE 62209-1528:2021
EN 50663: 2017; EN 62479: 2010

Head: 0.165 W/kg

Max. SAR (10g) Body: 0.520 W/kg

Limbs: 2.111 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 : Shenzhen Gotron Electronic CO.,LTD.
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Manufacturer's Name : Shenzhen Gotron Electronic CO.,LTD.
Address : 7B01, Building A, Block 1, Anhongji Tianyao Plaza, Longhua District, Shenzhen City, Guangdong Province, China

Product Description

Product Name : Smart Phone
Brand Name : ulefone
Model Name : RugKing 3 Pro
Series Model(s) : GQ3128, RugKing 3, RugKing 3 Ultra, RugKing 3E, RugKing 3S, RugKing 3 Lite, RugKing 3 Pro+, RugKing 3s, RugKing 3s Pro
Test Standards : EN 50360: 2017+A1:2023; EN 50566: 2017+A1:2023
EN IEC/IEEE 62209-1528:2021
EN 50663: 2017; EN 62479: 2010

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Date of Test

Date (s) of performance of tests : 18 Aug. 2025 ~ 28 Aug 2025
Date of Issue : 13 Sep. 2025
Test Result : **Pass**

Testing Engineer :

Xin Liu

(Xin.Liu)

Technical Manager :

Shi fan. long

(Shifan. Long)

Authorized Signatory :

Bovey Yang

(Bovey Yang)



**Table of Contents**

1. General Information	5
1.1 EUT Description	5
1.2 Test Environment	7
1.3 Test Factory	7
2. Test Standards and Limits	8
3. SAR Measurement System	9
3.1 Definition of Specific Absorption Rate (SAR)	9
3.2 SAR System	9
4. Tissue Simulating Liquids	12
4.1 Simulating Liquids Parameter Check	12
5. SAR System Validation	15
5.1 Validation System	15
5.2 Validation Result	16
6. SAR Evaluation Procedures	17
7. EUT Antenna Location Sketch	18
8. EUT Test Position	19
8.1 Cheek Position	19
8.2 Tilt Position	20
8.3 Body-worn Position Conditions	20
9. Measurement Uncertainty	21
10. Conducted Power Measurement	22
10.1 Tune up power	33
11. Test Photos and Results	35
11.1 EUT Photos	35
10.2 Setup Photos	38
12. SAR Result Summary	47
12.1 Head SAR	47
12.2 Body SAR	49
12.3 Limbs SAR	52
13. Equipment List	58
Appendix A. System Validation Plots	59
Appendix B. SAR Test Plots	81



Appendix C. Probe Calibration and Dipole Calibration Report

177

Revision History

Rev.	Issue Date	Report No.	Effect Page	Contents
00	13 Sep. 2025	STS2508161H01	ALL	Initial Issue



1. General Information

1.1 EUT Description

Product Name	Smart Phone			
Brand Name	ulefone			
Model Name	RugKing 3 Pro			
Series Model	GQ3128, RugKing 3, RugKing 3 Ultra, RugKing 3E, RugKing 3S, RugKing 3 Lite, RugKing 3 Pro+, RugKing 3s, RugKing 3s Pro			
Model Difference	Only different in model name			
Hardware Version	N/A			
Software Version	N/A			
Frequency Range	GSM 900: 880.2 MHz to 914.8 MHz GSM1800: 1710.2 MHz to 1784.8 MHz WCDMA Band I: 1922.4 MHz to 1977.6 MHz WCDMA Band VIII: 882.4 MHz to 912.6 MHz LTE Band 1: 1920 MHz to 1980 MHz LTE Band 3: 1710 MHz to 1785 MHz LTE Band 7: 2500 MHz to 2570 MHz LTE Band 8: 880 MHz to 915 MHz LTE Band 20: 832 MHz to 862 MHz LTE Band 28: 703 MHz to 748 MHz LTE Band 38: 2570 MHz to 2620 MHz LTE Band 40: 2300 MHz to 2400 MHz WLAN802.11b/g/n20: 2412 to 2472 MHz WLAN 802.11a/n20/ac20: 5150 to 5250 MHz WLAN 802.11a/n20/ac20: 5250 to 5350 MHz WLAN 802.11a/n20/ac20: 5725 to 5850 MHz Bluetooth: 2402 MHz to 2480 MHz			
Max. Reported SAR(10g): (Limit: 2.0 W/Kg) Limbs: (Limit: 4.0 W/Kg)	Mode	Maximum Reported SAR(W/kg)		
		Head	Body	Limbs
	GSM900	0.119	0.269	0.454
	GSM1800	0.046	0.315	0.606
	WCDMA Band I	0.048	0.261	1.775
	WCDMA Band VIII	0.096	0.222	0.236
	LTE band 1	0.055	0.39	2.111
	LTE band 3	0.064	0.497	1.351
	LTE band 7	0.058	0.520	0.958
	LTE band 8	0.087	0.272	0.372
	LTE band 20	0.109	0.316	0.591
	LTE band 28	0.100	0.281	0.465
	LTE band 38	0.031	0.146	0.190
	LTE band 40	0.050	0.418	0.937
	2.4GHz WLAN	0.122	0.092	0.184
	5.2GHz WLAN	0.143	0.126	0.406
	5.3GHz WLAN	0.144	0.118	0.404
	5.8GHz WLAN	0.165	0.146	0.463



Maximum Simultaneous SAR(W/kg)		0.263	0.666	2.517
Limit		2.0 W/Kg		4.0 W/Kg
Battery	Rated Voltage:3.87V Charge Limit Voltage:4.45V Capacity:5600mAh			
SIM Card	SIM 1 and SIM 2 is a chipset unit and tested as single chipset , SIM 1 is used to tested			
Modulation Mode	GSM	GMSK for GSM/GPRS; GMSK and 8PSK for EDGE		
	WCDMA	QPSK; HSDPA:QPSK/16QAM; HSUPA:BPSK		
	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/n(OFDM):BPSK,QPSK,16-QAM,64-QAM 802.11ac(OFDM):BPSK,QPSK,16-QAM,64-QAM,256-QAM		
	Bluetooth	BT(1Mbps): GFSK BT EDR(2Mbps): $\pi/4$ -DQPSK BT EDR(3Mbps): 8DPSK		
	BLE	GFSK		
Power control level	GSM900: 5, DCS1800: 0			
Power class	GSM900: 4, GSM1800: 1, WCDMA: Class 3, LTE: Class 3			
Antenna Specification:	GSM/WCDMA/LTE/NR: FPC Antenna Bluetooth: FPC Antenna WLAN: FPC Antenna			
Operating Mode:	Maximum continuous output			



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 STS Test Services Co. Ltd.
Address:	101, Building B, Zhuoke Science Park, No.190 Chongqing Road, ZhanChengShequ, Fuhai Sub-District, Bao'an District, Shenzhen, Guang Dong, China
Telephone:	+86-755 3688 6288
Fax:	+86-755 3688 6277
Registration No.:	FCC test Firm Registration Number: 625569
	IC test Firm Registration Number: 12108A
	A2LA Certificate No.: 4338.01



2. Test Standards and Limits

No.	Identity	Document Title
1	EN 50360: 2017+A1:2023	Product standard to demonstrate the compliance of wireless communication devices, with the basic restrictions and exposure limit values related to human exposure to electromagnetic fields in the frequency range from 300 MHz to 6 GHz: devices used next to the ear
2	EN 50566: 2017+A1:2023	Product standard to demonstrate the compliance of wireless communication devices with the basic restrictions and exposure limit values related to human exposure to electromagnetic fields in the frequency range from 30 MHz to 6 GHz: hand-held and body mounted devices in close proximity to the human body
3	EN IEC/IEEE 62209-1528: 2021	Measurement procedure for the assessment of specific absorption rate of human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices Part 1528: Human models, instrumentation, and procedures (Frequency range of 4 MHz to 10 GHz)
4	EN 50663: 2017	Generic standard for assessment of low power electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (10MHz to 300GHz)
5	EN 62479: 2010	Assessment of the compliance of low-power electronic and electrical equipment with the restrictions related to human exposure to electromagnetic fields(10 MHz to 300 GHz)

This device belongs to portable device category because its radiating structure is allowed to be used within 20 centimeters of the body of the user. According to EN 50360 and 1999/519/EC the limit for General Population/Uncontrolled exposure should be applied for this device, it is 2.0 W/kg as averaged over any 10 gram of tissue.

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

<u>Whole-Body</u>	<u>Partial-Body</u>	<u>Hands, Wrists, Feet and Ankles</u>
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0.08	2.0	4.0
------	-----	-----

NOTE: **Whole-Body SAR** is averaged over the entire body, **partial-body SAR** is averaged over any 10 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 2.0 W/kg PARTIAL LIMBS LIMIT 4.0 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

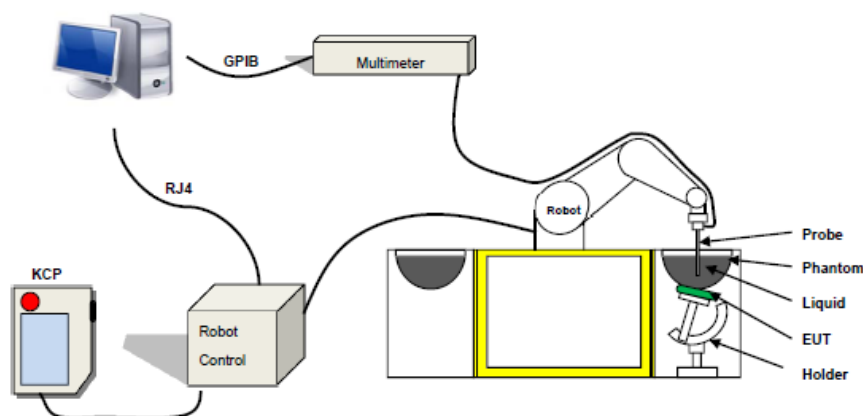
$$SAR = \frac{\sigma E^2}{\rho}$$

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 AR 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: $\pm 0.91\%$ ($\pm 0.04\text{dB}$)
- Axial Isotropy: $< 0.10\text{ dB}$
- Spherical Isotropy: $< 0.10\text{ dB}$
- 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.

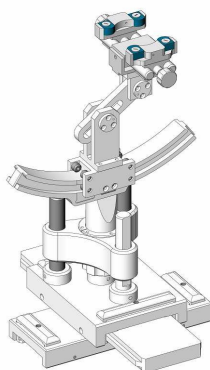


SN 32/14 SAM115



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 10 g averaging, the maximum weighting coefficient for SAR is 0,5.

EN 62209 RECOMMENDED TISSUE DIELECTRIC PARAMETERS

The head and body tissue dielectric parameters recommended by the EN 62209 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



Page 13 of 177
LIQUID MEASUREMENT RESULTS

Report No.:STS2508161H01

Date	Ambient		Simulating Liquid		Parameters	Target	Measured	Deviation %	Limited %
	Temp. [°C]	Humidity %	Frequency (MHz)	Temp. [°C]					
2025-08-18	21.8	49	713	21.5	Permittivity	42.10	43.06	2.29	±10
					Conductivity	0.89	0.91	2.53	±10
2025-08-18	21.8	49	750	21.5	Permittivity	41.90	42.59	1.65	±10
					Conductivity	0.89	0.94	5.62	±10
2025-08-18	21.8	49	835	21.5	Permittivity	41.50	40.47	-2.48	±10
					Conductivity	0.90	0.89	-1.11	±10
2025-08-18	21.8	49	842	21.5	Permittivity	41.47	41.55	0.20	±10
					Conductivity	0.90	0.96	6.57	±10
2025-08-22	20.6	57	897.4	20.3	Permittivity	41.50	41.93	1.04	±10
					Conductivity	0.97	0.98	1.32	±10
2025-08-22	20.6	57	900	20.3	Permittivity	41.50	42.05	1.33	±10
					Conductivity	0.97	0.96	-1.03	±10
2025-08-22	20.6	57	910	20.3	Permittivity	41.50	42.11	1.47	±10
					Conductivity	0.98	0.99	0.94	±10
2025-08-22	20.6	57	914.8	20.3	Permittivity	41.50	41.77	0.65	±10
					Conductivity	0.99	0.98	-0.60	±10
2025-08-29	22.8	46	1710.2	22.5	Permittivity	40.13	41.11	2.45	±10
					Conductivity	1.35	1.36	0.84	±10
2025-08-29	22.8	46	1720	22.5	Permittivity	40.11	40.77	1.63	±10
					Conductivity	1.35	1.37	1.16	±10
2025-08-29	22.8	46	1747.5	22.5	Permittivity	40.08	40.61	1.33	±10
					Conductivity	1.37	1.37	0.00	±10
2025-08-29	22.8	46	1747.8	22.5	Permittivity	40.07	40.69	1.54	±10
					Conductivity	1.37	1.38	0.72	±10
2025-08-29	22.8	46	1775	22.5	Permittivity	40.04	40.22	0.46	±10
					Conductivity	1.39	1.42	2.47	±10
2025-08-29	22.8	46	1800	22.5	Permittivity	40.00	40.50	1.25	±10
					Conductivity	1.40	1.38	-1.43	±10
2025-08-26	21.8	58	1900	21.5	Permittivity	40.00	40.92	2.30	±10
					Conductivity	1.40	1.39	-0.71	±10
2025-08-26	21.8	58	1922.4	21.5	Permittivity	40.00	39.94	-0.15	±10
					Conductivity	1.40	1.37	-2.14	±10
2025-08-26	21.8	58	1930	21.5	Permittivity	40.00	40.81	2.03	±10
					Conductivity	1.40	1.36	-2.86	±10
2025-08-26	21.8	58	1950	21.5	Permittivity	40.00	40.41	1.02	±10
					Conductivity	1.40	1.42	1.43	±10
2025-08-26	21.8	58	1970	21.5	Permittivity	40.00	40.27	0.68	±10
					Conductivity	1.40	1.41	0.71	±10
2025-08-26	21.8	58	1977.6	21.5	Permittivity	40.00	40.83	2.08	±10
					Conductivity	1.40	1.41	0.71	±10
2025-08-23	20.8	42	2300	20.5	Permittivity	39.47	40.22	1.91	±10
					Conductivity	1.67	1.74	4.40	±10
2025-08-23	20.8	42	2310	20.5	Permittivity	39.45	40.80	3.42	±10
					Conductivity	1.68	1.66	-0.93	±10
2025-08-23	20.8	42	2350	20.5	Permittivity	39.38	39.38	0.01	±10
					Conductivity	1.71	1.68	-1.82	±10
2025-08-23	20.8	42	2390	20.5	Permittivity	39.31	39.75	1.13	±10
					Conductivity	1.75	1.77	1.34	±10
2025-08-23	20.8	42	2450	20.5	Permittivity	39.20	39.81	1.56	±10
					Conductivity	1.80	1.79	-0.56	±10
2025-08-23	20.8	42	2472	20.5	Permittivity	39.16	39.68	1.33	±10
					Conductivity	1.82	1.86	2.22	±10



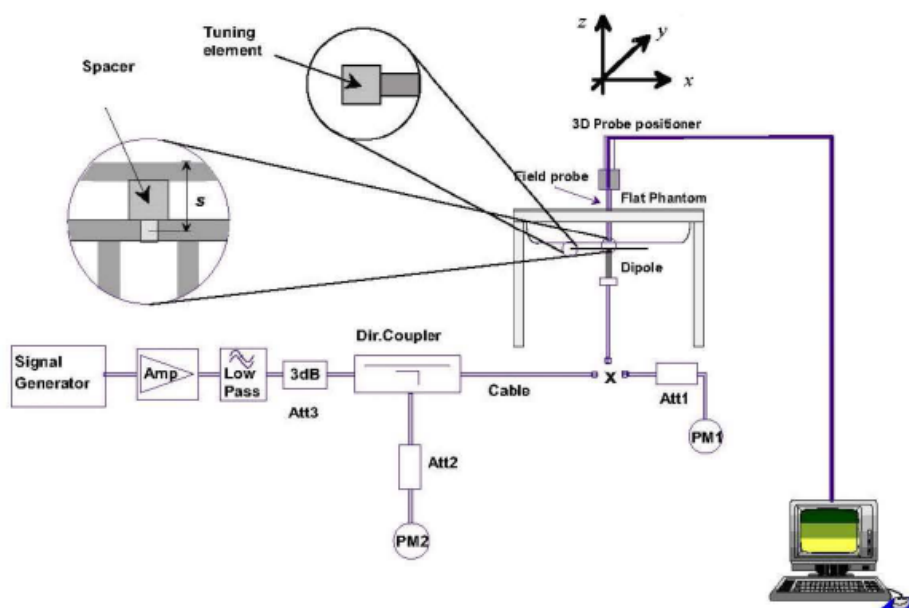
2025-08-26	23.6	43	2510	23.3	Permittivity	39.12	39.73	1.56	±10
					Conductivity	1.86	1.85	-0.75	±10
2025-08-26	23.6	43	2535	23.3	Permittivity	39.09	39.60	1.31	±10
					Conductivity	1.89	1.86	-1.62	±10
2025-08-26	23.6	43	2580	23.3	Permittivity	39.03	40.38	3.47	±10
					Conductivity	1.94	1.92	-0.96	±10
2025-08-26	23.6	43	2600	23.3	Permittivity	39.00	39.77	1.97	±10
					Conductivity	1.96	2.01	2.55	±10
2025-08-24	22.1	49	5180	21.6	Permittivity	36.02	36.76	2.05	±10
					Conductivity	4.64	4.63	-0.19	±10
2025-08-24	22.1	49	5200	21.6	Permittivity	36.00	36.07	0.19	±10
					Conductivity	4.66	4.68	0.43	±10
2025-08-24	22.1	49	5320	21.6	Permittivity	35.88	36.25	1.03	±10
					Conductivity	4.78	4.76	-0.42	±10
2025-08-24	22.1	49	5400	21.6	Permittivity	35.80	36.49	1.93	±10
					Conductivity	4.86	4.88	0.41	±10
2025-08-21	22.4	54	5785	22.1	Permittivity	35.32	36.49	3.33	±10
					Conductivity	5.25	5.20	-1.03	±10
2025-08-21	22.5	54	5800	22.1	Permittivity	35.30	35.76	1.30	±10
					Conductivity	5.27	5.25	-0.38	±10

5. SAR System Validation

5.1 Validation System

Each MVG system is equipped with one or more system validation kits. These units, together with the predefined measurement procedures within the MVG software, enable the user to conduct the system performance check and system validation. System kit includes a dipole, and dipole device holder.

The system check verifies that the system operates within its specifications. It's performed daily or before every SAR measurement. The system check uses normal SAR measurement in the flat section of the phantom with a matched dipole at a specified distance. The system validation setup is shown as below.





5.2 Validation Result

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

Date	Frequency (MHz)	Power	SAR _{1g} (W/Kg)	SAR _{10g} (W/Kg)	Drift (%)	1W Target		Difference percentage		Limited %
						SAR _{1g} (W/Kg)	SAR _{10g} (W/Kg)	1g	10g	
2025-08-18	750	100 mW	0.842	0.513	-3.40	8.49	5.53	-0.80%	-7.16%	10
		Normalize to 1 Watt	8.42	5.13						
2025-08-18	835	100 mW	0.959	0.566	-3.65	9.63	6.15	-0.37%	-7.99%	10
		Normalize to 1 Watt	9.59	5.66						
2025-08-22	900	100 mW	1.086	0.671	1.34	10.90	6.99	-0.40%	-4.07%	10
		Normalize to 1 Watt	10.86	6.71						
2025-08-29	1800	100 mW	3.805	1.909	-2.72	38.40	20.10	-0.91%	-5.04%	10
		Normalize to 1 Watt	38.05	19.09						
2025-08-26	1900	100 mW	3.875	2.008	-2.56	39.84	20.20	-2.73%	-0.61%	10
		Normalize to 1 Watt	38.75	20.08						
2025-08-23	2300	100 mW	4.823	2.200	-1.53	48.93	22.97	-1.42%	-4.22%	10
		Normalize to 1 Watt	48.23	22.00						
2025-08-23	2450	100 mW	5.360	2.242	0.00	54.70	24.11	-2.01%	-7.00%	10
		Normalize to 1 Watt	53.60	22.42						
2025-08-26	2600	100 mW	5.501	2.233	-3.05	56.19	24.08	-2.09%	-7.27%	10
		Normalize to 1 Watt	55.01	22.33						
2025-08-24	5200	10 mW	1.521	0.528	0.04	163.88	57.29	-7.19%	-7.83%	10
		Normalize to 1 Watt	152.10	52.81						
2025-08-24	5400	10 mW	1.623	0.578	1.07	172.23	59.16	-5.74%	-2.30%	10
		Normalize to 1 Watt	162.34	57.80						
2025-08-21	5800	10 mW	1.791	0.618	-0.51	188.95	63.45	-5.21%	-2.58%	10
		Normalize to 1 Watt	179.10	61.81						



6. SAR Evaluation Procedures

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

- 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:

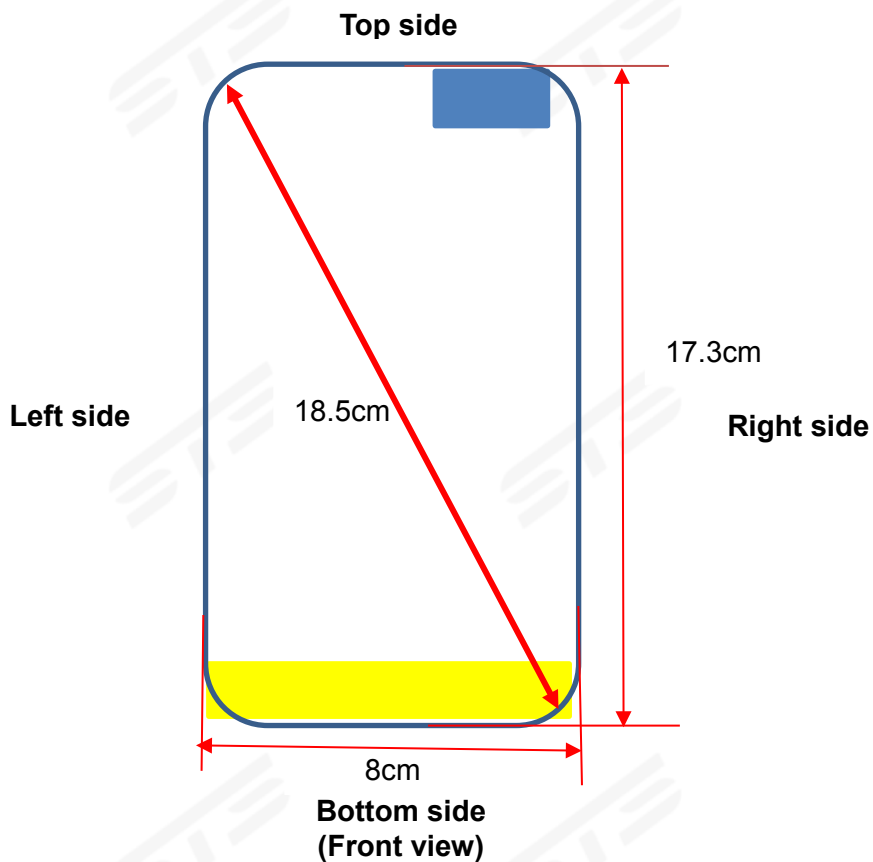
For handsets operating above 300 MHz evaluated with the homogeneous head model, the SAR distribution is measured on a two-dimensional coarse grid at a fixed separation distance of less than 8 mm from the surface of the phantom shell. The scan region should cover all areas that are exposed and encompassed by the projection of the handset. In order to maintain a fixed distance of less than 8 mm from the surface to within ± 1 mm, as required by the measurement protocol, the exact shape and dimensions of the phantom inner surface shall be known, pre-calibrated, or preferably detected during the SAR measurement with a mechanical or optical surface-detection mechanism that meets the probe positioning requirements. This evaluation technique determines the maximum spacing between the grid points, i.e., it has been found that a 20 mm $\times$ 20 mm grid is usually sufficient to achieve the required precision if two staggered one-dimensional cubic splines [55] are used to locate the maximum SAR location;.

The maximum local SAR is evaluated on an interpolated grid at 1 mm to 2 mm resolution during the zoom scan. A zoom-scan volume of 32 mm x 32 mm x 30 mm, consisting of 5 x 5 x 7 points with the center at the peak SAR location determined during the area scan, can be chosen. Although a scan resolution of 8 mm is sufficient for directions parallel to the surface, 5 mm is needed in the direction normal to the surface of the phantom to achieve the required extrapolation accuracy.



7. EUT Antenna Location Sketch

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



 WLAN/BT Antenna

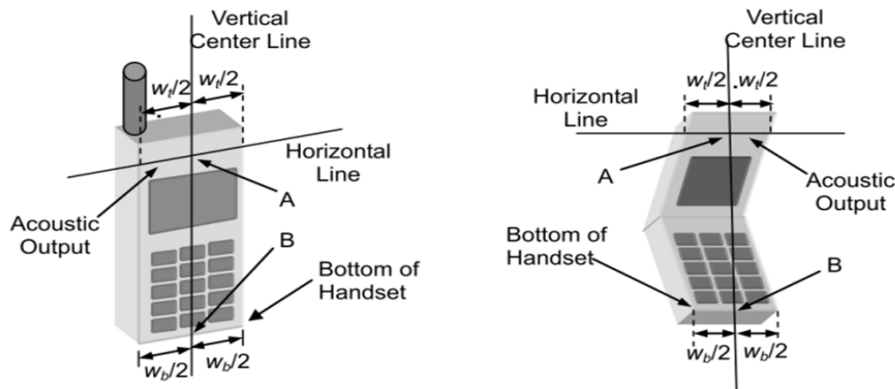
 WWAN Antenna

8. EUT Test Position

This EUT was tested in Right Cheek, Right Titled, Left Cheek, Left Titled, Front Face and Rear Face.

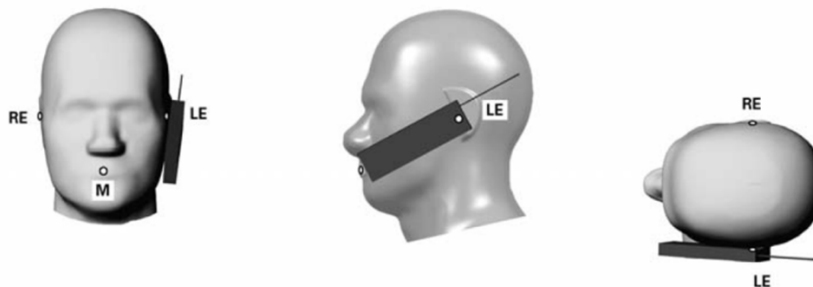
Define Two Imaginary Lines On The Handset:

- 1) The vertical centerline passes through two points on the front side of the handset the midpoint of the width w_t of the handset at the level of the acoustic output, and the midpoint of the width w_b of the handset.
- 2) The horizontal line is perpendicular to the vertical centerline and passes through the center of the acoustic output. The horizontal line is also tangential to the face of the handset at point A.
- 3) The two lines intersect at point A. Note that for many handsets, point A coincides with the center of the acoustic output; however, the acoustic output may be located elsewhere on the horizontal line. Also note that the vertical centerline is not necessarily to the front face of the handset, especially for clamshell handsets, handsets with flip covers, and other irregularly shaped handsets.



8.1 Cheek Position

- 1) To position the device with the vertical center line of the body of the device and the horizontal line crossing the center piece in a plane parallel to the sagittal plane of the phantom. While maintaining the device in this plane, align the vertical center line with the reference plane containing the ear and mouth reference point (M: Mouth, RE: Right Ear, and LE: Left Ear) and align the center of the ear piece with the line RE-LE.
- 2) To move the device towards the phantom with the ear piece aligned with the line LE-RE until the phone touched the ear. While maintaining the device in the reference plane and maintaining the phone contact with ear, move the bottom of the phone until any point on the front side is in contact with the cheek of the phantom or until contact with the ear is lost



8.2 Tilt Position

(1) To position the device in the “cheek” position described above.

(2) While maintaining the device in the reference plane described above and pivoting against the ear, moves it outward away from the mouth by an angle of 15 degrees or until with the ear is lost.

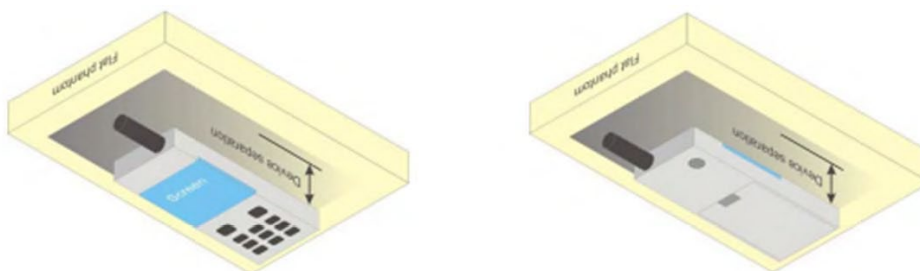


8.3 Body-worn Position Conditions

1) To position the EUT parallel to the phantom surface.

2) To adjust the EUT parallel to the flat phantom.

3) To adjust the distance between the EUT surface and the flat phantom to 5mm.





9. Measurement Uncertainty

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

Symbol	Uncertainty Component	Prob. Dist.	Unc. $a(x_i)$	Div. q_i	$u(x_i) = a(x_i)/q_i$	C_i	$u(y) = C_i * u(x_i)$	v_i
Measurement system errors								
CF	Probe calibration	N ($k = 2$)	7	2	3.50	1	3.50	∞
CF _{drift}	Probe calibration drift	R	2.31	$\sqrt{3}$	1.33	1	1.33	∞
LIN	Probe linearity and detection limit	R	2.71	$\sqrt{3}$	1.56	1	1.56	∞
BBS	Broadband signal	R	0	$\sqrt{3}$	0.00	1	0.00	∞
ISO	Probe isotropy	R	3.41	$\sqrt{3}$	1.97	1	1.97	∞
DAE	Other probe and data acquisition errors	N	0.81	1	0.81	1	0.81	∞
AMB	RF ambient and noise	N	1.73	1	1.73	1	1.73	∞
Δ_{xyz}	Probe positioning errors	N	1.89	1	1.89	$2/\delta$	1.89	
DAT	Data processing errors	N	1.33	1	1.33	1	1.33	∞
Phantom and device (DUT or validation antenna) errors								
LIQ(σ)	Measurement of phantom conductivity(σ)	N	5.06	1	5.06	$c\epsilon, c\sigma$	5.06	∞
LIQ(T_c)	Temperature effects (medium)	R	1.44	$\sqrt{3}$	0.83	$c\epsilon, c\sigma$	0.83	∞
EPS	Shell permittivity	R	1.67	$\sqrt{3}$	0.96	see 8.4.2.3	0.24	∞
DIS	Distance between the radiating element of the DUT and the phantom medium	N	2.7	1	2.7	2	5.40	∞
D _{xyz}	Repeatability of positioning the DUT or source against the phantom	N	2.6	1	2.6	1	2.60	5
H	Device holder effects	N	3	1	3	1	3.00	
MOD	Effect of operating mode on probe sensitivity	R	4.73	$\sqrt{3}$	2.73	1	2.73	∞
TAS	Time-average SAR	R	1.8	$\sqrt{3}$	1.04	1	1.04	∞
RF _{drift}	Variation in SAR due to drift in output of DUT	N	5.77	1	5.77	1	5.77	
VAL	Validation antenna uncertainty (validation measurement only)	N	2	1	2	1	2.00	
P _{in}	Uncertainty in accepted power (validation measurement only)	N	1.73	1	1.73	1	1.73	
Corrections to the SAR result (if applied)								
C(ϵ', σ)	Phantom deviation from target (ϵ', σ)	N	1.9	1	1.9	1	1.90	
C(R)	SAR scaling	R	2.89	$\sqrt{3}$	1.67	1	1.67	
u(Δ SAR)	Combined uncertainty						12.48	
U	Expanded uncertainty and effective degrees of freedom					U =	24.97	



10. Conducted Power Measurement

Test Result:

Burst Average Power (dBm)						
Band	GSM 900			DCS 1800		
Channel	975	37	124	512	700	885
Frequency (MHz)	880.2	897.4	914.8	1710.2	1747.8	1784.8
GSM(GMSK, 1-Slot)	33.41	33.55	33.55	31.20	31.14	31.06
GPRS (GMSK,1-Slot)	33.48	33.59	33.59	31.25	31.17	31.07
GPRS (GMSK, 2-Slot)	31.49	31.52	31.53	28.59	28.91	28.96
GPRS (GMSK, 3-Slot)	29.62	29.65	29.65	27.08	27.42	27.42
GPRS (GMSK, 4-Slot)	27.61	27.65	27.65	25.09	25.36	25.44
EGPRS(8PSK, 1-Slot)	26.41	27.33	27.15	27.48	27.46	26.90
EGPRS(8PSK, 2-Slot)	26.91	26.53	26.39	25.42	25.02	25.57
EGPRS(8PSK, 3-Slot)	24.38	23.76	24.24	22.80	23.95	23.84
EGPRS(8PSK, 4-Slot)	21.73	21.34	21.46	22.38	21.98	22.04

Frame- RF Output Power (dBm)						
Band	GSM 900			DCS 1800		
Channel	975	37	124	512	700	885
Frequency (MHz)	880.2	897.4	914.8	1710.2	1747.8	1784.8
GSM(GMSK, 1-Slot)	24.38	24.52	24.52	22.17	22.11	22.03
GPRS (GMSK,1-Slot)	24.45	24.56	24.56	22.22	22.14	22.04
GPRS (GMSK, 2-Slot)	25.47	25.50	25.51	22.57	22.89	22.94
GPRS (GMSK, 3-Slot)	25.36	25.39	25.39	22.82	23.16	23.16
GPRS (GMSK, 4-Slot)	24.60	24.64	24.64	22.08	22.35	22.43
EGPRS(8PSK, 1-Slot)	17.38	18.30	18.12	18.45	18.43	17.87
EGPRS(8PSK, 2-Slot)	20.89	20.51	20.37	19.40	19.00	19.55
EGPRS(8PSK, 3-Slot)	20.12	19.50	19.98	18.54	19.69	19.58
EGPRS(8PSK, 4-Slot)	18.72	18.33	18.45	19.37	18.97	19.03

Note:

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

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

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



As the SAR body tests for WCDMA, we established the radio link through call processing. The maximum output power were verified on high, middle and low channels for each test band according to 3GPP TS 34.121 with the following configuration: a 12.2kbps RMC, 64,144,384 kbps RMC with TPC set to all "all '1's"b Test loop Mode 1

The following procedures had been used to prepare the EUT for the SAR test.

Band	WCDMA Band I (dBm)			WCDMA Band VIII (dBm)		
Channel	9612	9750	9888	2712	2787	2863
Frequency (MHz)	1922.4	1950	1977.6	882.4	897.4	912.6
RMC 12.2Kbps	23.33	23.33	23.39	23.06	23.20	23.04
HSDPA Subtest-1	22.44	22.52	22.23	22.65	22.92	22.46
HSDPA Subtest-2	22.13	22.08	21.74	22.50	22.61	22.12
HSDPA Subtest-3	21.90	22.18	21.76	22.28	22.43	21.99
HSDPA Subtest-4	21.62	21.98	21.69	21.96	22.29	21.66
HSUPA Subtest-1	22.22	22.34	21.86	22.41	22.67	22.22
HSUPA Subtest-2	22.34	22.44	22.13	22.54	22.86	22.44
HSUPA Subtest-3	22.37	22.14	21.73	22.39	22.66	22.23
HSUPA Subtest-4	22.36	22.45	22.15	22.62	22.82	22.38
HSUPA Subtest-5	22.24	22.17	21.82	22.30	22.77	22.25

WLAN (2.4G band)

- The client supplied a special driver to program the EUT, allowing it to continually transmit the specified maximum power and change the channel frequency.
- Maximum conducted power was measured by replacing the antenna with an adapter for conductive measurement.
- The conducted power was measured at the high, middle and low channel frequency before and after the SAR measurement.
- During SAR test, the highest output channel per band measured first, and then if necessary, the other channels were measured according to the normal procedures.

Output power (dBm):

2.4G WIFI

2.4GWIFI				
Mode	Channel Number	Frequency (MHz)	Max EIRP (dBm)	Output Power (mW)
802.11b	1	2412	13.28	21.28
	7	2442	13.25	21.13
	13	2472	13.48	22.28
802.11g	1	2412	13.09	20.37
	7	2442	13.06	20.23
	13	2472	13.48	22.28
802.11 n-HT20	1	2412	14.06	25.47
	7	2442	14.01	25.18
	13	2472	13.82	24.10

**5.2G WIFI**

5.2G WLAN				
Mode	Channel Number	Frequency (MHz)	Max EIRP (dBm)	Output Power (mW)
802.11a	36	5180	13.21	20.94
802.11 n-HT20	36	5180	13.64	23.12
802.11 ac-VHT20	36	5180	12.26	16.83

5.3G WIFI

5.3G WLAN				
Mode	Channel Number	Frequency (MHz)	Max EIRP (dBm)	Output Power (mW)
802.11a	64	5320	12.38	17.30
802.11 n-HT20	64	5320	13.37	21.73
802.11 ac-VHT20	64	5320	12.26	16.83

5.8G WIFI

5.8G WLAN				
Mode	Channel Number	Frequency (MHz)	Max EIRP (dBm)	Output Power (mW)
802.11a	149	5745	9.90	9.77
	157	5785	9.60	9.12
	165	5825	10.11	10.26
802.11 n-HT20	149	5745	10.75	11.89
	157	5785	10.60	11.48
	165	5825	11.02	12.65
802.11 ac-VHT20	151	5755	10.07	10.16
	159	5795	10.18	10.42
	155	5775	10.31	10.74

Bluetooth

BT		
Mode	Max EIRP (dBm)	Output Power (mW)
GFSK(1Mbps)	4.15	2.60
QPSK(2Mbps)	2.34	1.71
8DPSK(3Mbps)	2.92	1.96

BLE

BLE			
Mode	Frequency (MHz)	Output Power (dBm)	Output Power (mW)
GFSK(1Mbps)	2402	1.68	1.47
	2440	1.60	1.45
	2480	1.35	1.36

Note: According to EN50663 and EN 62479, The available antenna power of this EUT BT is **4.15dBm (2.60mW)**, the power is less than the low-power exclusion level defined (P_{max} :**20 mW**), So BT SAR is not required.



LTE output list

LTE Band	Channel Number	Bandwidth (MHz) and modulation	RB Set	Limit low (dBm)	Limit high (dBm)	Result (dBm)	verdict
1	18025	BW:5.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	22.83	Passed
	18025	BW:5.0;QPSK	1(RB-Pos:HIGH)	20.3	25.7	22.77	Passed
	18025	BW:5.0;QPSK	8(RB-Pos:LOW)	20.3	25.7	22.82	Passed
	18025	BW:5.0;QPSK	8(RB-Pos:LOW)	20.3	25.7	22.65	Passed
	18300	BW:5.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	22.55	Passed
	18300	BW:5.0;QPSK	1(RB-Pos:HIGH)	20.3	25.7	22.52	Passed
	18300	BW:5.0;QPSK	8(RB-Pos:LOW)	20.3	25.7	22.66	Passed
	18300	BW:5.0;QPSK	8(RB-Pos:LOW)	20.3	25.7	22.58	Passed
	18575	BW:5.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	22.61	Passed
	18575	BW:5.0;QPSK	1(RB-Pos:HIGH)	20.3	25.7	22.62	Passed
	18575	BW:5.0;QPSK	8(RB-Pos:LOW)	20.3	25.7	22.70	Passed
	18575	BW:5.0;QPSK	8(RB-Pos:LOW)	20.3	25.7	22.67	Passed
	18100	BW:20.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	22.79	Passed
	18100	BW:20.0;QPSK	1(RB-Pos:HIGH)	20.3	25.7	22.59	Passed
	18100	BW:20.0;QPSK	18(RB-Pos:LOW)	20.3	25.7	22.61	Passed
	18100	BW:20.0;QPSK	18(RB-Pos:LOW)	20.3	25.7	22.61	Passed
	18300	BW:20.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	22.77	Passed
	18300	BW:20.0;QPSK	1(RB-Pos:HIGH)	20.3	25.7	22.67	Passed
	18300	BW:20.0;QPSK	18(RB-Pos:LOW)	20.3	25.7	22.74	Passed
	18300	BW:20.0;QPSK	18(RB-Pos:LOW)	20.3	25.7	22.59	Passed
	18500	BW:20.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	22.72	Passed
	18500	BW:20.0;QPSK	1(RB-Pos:HIGH)	20.3	25.7	22.79	Passed
	18500	BW:20.0;QPSK	18(RB-Pos:LOW)	20.3	25.7	22.75	Passed
	18500	BW:20.0;QPSK	18(RB-Pos:LOW)	20.3	25.7	22.80	Passed



LTE Band	Channel Number	Bandwidth (MHz) and modulation	RB Set	Limit low (dBm)	Limit high (dBm)	Result (dBm)	verdict
3	19207	BW:1.4;QPSK	1(RB-Pos:LOW)	20.3	25.7	23.68	Passed
	19207	BW:1.4;QPSK	1(RB-Pos:LOW)	20.3	25.7	23.71	Passed
	19207	BW:1.4;QPSK	5(RB-Pos:LOW)	20.3	25.7	23.58	Passed
	19207	BW:1.4;QPSK	5(RB-Pos:LOW)	20.3	25.7	23.56	Passed
	19575	BW:1.4;QPSK	1(RB-Pos:LOW)	20.3	25.7	23.83	Passed
	19575	BW:1.4;QPSK	1(RB-Pos:LOW)	20.3	25.7	23.82	Passed
	19575	BW:1.4;QPSK	5(RB-Pos:LOW)	20.3	25.7	23.75	Passed
	19575	BW:1.4;QPSK	5(RB-Pos:LOW)	20.3	25.7	23.74	Passed
	19943	BW:1.4;QPSK	1(RB-Pos:LOW)	20.3	25.7	23.81	Passed
	19943	BW:1.4;QPSK	1(RB-Pos:LOW)	20.3	25.7	23.78	Passed
	19943	BW:1.4;QPSK	5(RB-Pos:LOW)	20.3	25.7	23.62	Passed
	19943	BW:1.4;QPSK	5(RB-Pos:LOW)	20.3	25.7	23.73	Passed
	19225	BW:5.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	23.55	Passed
	19225	BW:5.0;QPSK	1(RB-Pos:HIGH)	20.3	25.7	23.52	Passed
	19225	BW:5.0;QPSK	8(RB-Pos:LOW)	20.3	25.7	23.57	Passed
	19225	BW:5.0;QPSK	8(RB-Pos:LOW)	20.3	25.7	23.59	Passed
	19575	BW:5.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	23.69	Passed
	19575	BW:5.0;QPSK	1(RB-Pos:HIGH)	20.3	25.7	23.72	Passed
	19575	BW:5.0;QPSK	8(RB-Pos:LOW)	20.3	25.7	23.73	Passed
	19575	BW:5.0;QPSK	8(RB-Pos:LOW)	20.3	25.7	23.78	Passed
	19925	BW:5.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	23.69	Passed
	19925	BW:5.0;QPSK	1(RB-Pos:HIGH)	20.3	25.7	23.58	Passed
	19925	BW:5.0;QPSK	8(RB-Pos:LOW)	20.3	25.7	23.69	Passed
	19925	BW:5.0;QPSK	8(RB-Pos:LOW)	20.3	25.7	23.65	Passed
	19300	BW:20.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	23.64	Passed
	19300	BW:20.0;QPSK	1(RB-Pos:HIGH)	20.3	25.7	23.56	Passed
	19300	BW:20.0;QPSK	18(RB-Pos:LOW)	20.3	25.7	23.59	Passed
	19300	BW:20.0;QPSK	18(RB-Pos:LOW)	20.3	25.7	23.59	Passed
	19575	BW:20.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	23.73	Passed
	19575	BW:20.0;QPSK	1(RB-Pos:HIGH)	20.3	25.7	23.75	Passed
	19575	BW:20.0;QPSK	18(RB-Pos:LOW)	20.3	25.7	23.69	Passed
	19575	BW:20.0;QPSK	18(RB-Pos:LOW)	20.3	25.7	23.66	Passed
	19850	BW:20.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	23.91	Passed
	19850	BW:20.0;QPSK	1(RB-Pos:HIGH)	20.3	25.7	23.83	Passed
	19850	BW:20.0;QPSK	18(RB-Pos:LOW)	20.3	25.7	23.84	Passed
	19850	BW:20.0;QPSK	18(RB-Pos:LOW)	20.3	25.7	23.74	Passed



LTE Band	Channel Number	Bandwidth (MHz) and modulation	RB Set	Limit low (dBm)	Limit high (dBm)	Result (dBm)	verdict
7	20775	BW:5.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	24.04	Passed
	20775	BW:5.0;QPSK	1(RB-Pos:HIGH)	20.3	25.7	24.03	Passed
	20775	BW:5.0;QPSK	8(RB-Pos:LOW)	20.3	25.7	24.17	Passed
	20775	BW:5.0;QPSK	8(RB-Pos:LOW)	20.3	25.7	24.19	Passed
	21100	BW:5.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	24.04	Passed
	21100	BW:5.0;QPSK	1(RB-Pos:HIGH)	20.3	25.7	24.03	Passed
	21100	BW:5.0;QPSK	8(RB-Pos:LOW)	20.3	25.7	23.92	Passed
	21100	BW:5.0;QPSK	8(RB-Pos:LOW)	20.3	25.7	23.92	Passed
	21425	BW:5.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	23.92	Passed
	21425	BW:5.0;QPSK	1(RB-Pos:HIGH)	20.3	25.7	23.85	Passed
	21425	BW:5.0;QPSK	8(RB-Pos:LOW)	20.3	25.7	23.97	Passed
	21425	BW:5.0;QPSK	8(RB-Pos:LOW)	20.3	25.7	23.86	Passed
	20850	BW:20.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	24.30	Passed
	20850	BW:20.0;QPSK	1(RB-Pos:HIGH)	20.3	25.7	24.15	Passed
	20850	BW:20.0;QPSK	18(RB-Pos:LOW)	20.3	25.7	24.21	Passed
	20850	BW:20.0;QPSK	18(RB-Pos:LOW)	20.3	25.7	24.13	Passed
	21100	BW:20.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	24.35	Passed
	21100	BW:20.0;QPSK	1(RB-Pos:HIGH)	20.3	25.7	24.23	Passed
	21100	BW:20.0;QPSK	18(RB-Pos:LOW)	20.3	25.7	24.10	Passed
	21100	BW:20.0;QPSK	18(RB-Pos:LOW)	20.3	25.7	23.98	Passed
	21350	BW:20.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	24.03	Passed
	21350	BW:20.0;QPSK	1(RB-Pos:HIGH)	20.3	25.7	24.13	Passed
	21350	BW:20.0;QPSK	18(RB-Pos:LOW)	20.3	25.7	24.06	Passed
	21350	BW:20.0;QPSK	18(RB-Pos:LOW)	20.3	25.7	23.98	Passed



LTE Band	Channel Number	Bandwidth (MHz) and modulation	RB Set	Limit low (dBm)	Limit high (dBm)	Result (dBm)	verdict
8	21457	BW:1.4;QPSK	1(RB-Pos:LOW)	20.3	25.7	23.61	Passed
	21457	BW:1.4;QPSK	1(RB-Pos:HIGH)	20.3	25.7	23.51	Passed
	21457	BW:1.4;QPSK	5(RB-Pos:LOW)	20.3	25.7	23.47	Passed
	21457	BW:1.4;QPSK	5(RB-Pos:HIGH)	20.3	25.7	23.46	Passed
	21625	BW:1.4;QPSK	1(RB-Pos:LOW)	20.3	25.7	23.66	Passed
	21625	BW:1.4;QPSK	1(RB-Pos:HIGH)	20.3	25.7	23.69	Passed
	21625	BW:1.4;QPSK	5(RB-Pos:LOW)	20.3	25.7	23.69	Passed
	21625	BW:1.4;QPSK	5(RB-Pos:HIGH)	20.3	25.7	23.68	Passed
	21793	BW:1.4;QPSK	1(RB-Pos:LOW)	20.3	25.7	23.73	Passed
	21793	BW:1.4;QPSK	1(RB-Pos:HIGH)	20.3	25.7	23.80	Passed
	21793	BW:1.4;QPSK	5(RB-Pos:LOW)	20.3	25.7	23.67	Passed
	21793	BW:1.4;QPSK	5(RB-Pos:HIGH)	20.3	25.7	23.70	Passed
	21475	BW:5.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	23.52	Passed
	21475	BW:5.0;QPSK	1(RB-Pos:HIGH)	20.3	25.7	23.48	Passed
	21475	BW:5.0;QPSK	8(RB-Pos:LOW)	20.3	25.7	23.52	Passed
	21475	BW:5.0;QPSK	8(RB-Pos:HIGH)	20.3	25.7	23.53	Passed
	21625	BW:5.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	23.76	Passed
	21625	BW:5.0;QPSK	1(RB-Pos:HIGH)	20.3	25.7	23.88	Passed
	21625	BW:5.0;QPSK	8(RB-Pos:LOW)	20.3	25.7	23.75	Passed
	21625	BW:5.0;QPSK	8(RB-Pos:HIGH)	20.3	25.7	23.92	Passed
	21775	BW:5.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	23.79	Passed
	21775	BW:5.0;QPSK	1(RB-Pos:HIGH)	20.3	25.7	23.62	Passed
	21775	BW:5.0;QPSK	8(RB-Pos:LOW)	20.3	25.7	23.76	Passed
	21775	BW:5.0;QPSK	8(RB-Pos:HIGH)	20.3	25.7	23.67	Passed
	21500	BW:10.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	23.49	Passed
	21500	BW:10.0;QPSK	1(RB-Pos:HIGH)	20.3	25.7	23.55	Passed
	21500	BW:10.0;QPSK	12(RB-Pos:LOW)	20.3	25.7	23.43	Passed
	21500	BW:10.0;QPSK	12(RB-Pos:HIGH)	20.3	25.7	23.63	Passed
	21625	BW:10.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	23.63	Passed
	21625	BW:10.0;QPSK	1(RB-Pos:HIGH)	20.3	25.7	23.71	Passed
	21625	BW:10.0;QPSK	12(RB-Pos:LOW)	20.3	25.7	23.83	Passed
	21625	BW:10.0;QPSK	12(RB-Pos:HIGH)	20.3	25.7	23.71	Passed
	21750	BW:10.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	23.89	Passed
	21750	BW:10.0;QPSK	1(RB-Pos:HIGH)	20.3	25.7	23.78	Passed
	21750	BW:10.0;QPSK	12(RB-Pos:LOW)	20.3	25.7	23.89	Passed
	21750	BW:10.0;QPSK	12(RB-Pos:HIGH)	20.3	25.7	23.73	Passed



LTE Band	Channel Number	Bandwidth (MHz) and modulation	RB Set	Limit low (dBm)	Limit high (dBm)	Result (dBm)	verdict
20	24175	BW:5.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	23.34	Passed
	24175	BW:5.0;QPSK	1(RB-Pos:HIGH)	20.3	25.7	23.15	Passed
	24175	BW:5.0;QPSK	8(RB-Pos:LOW)	20.3	25.7	23.30	Passed
	24175	BW:5.0;QPSK	8(RB-Pos:LOW)	20.3	25.7	23.24	Passed
	24300	BW:5.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	22.93	Passed
	24300	BW:5.0;QPSK	1(RB-Pos:HIGH)	20.3	25.7	22.82	Passed
	24300	BW:5.0;QPSK	8(RB-Pos:LOW)	20.3	25.7	23.00	Passed
	24300	BW:5.0;QPSK	8(RB-Pos:LOW)	20.3	25.7	23.02	Passed
	24425	BW:5.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	22.89	Passed
	24425	BW:5.0;QPSK	1(RB-Pos:HIGH)	20.3	25.7	22.79	Passed
	24425	BW:5.0;QPSK	8(RB-Pos:LOW)	20.3	25.7	22.95	Passed
	24425	BW:5.0;QPSK	8(RB-Pos:LOW)	20.3	25.7	22.96	Passed
	24250	BW:20.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	23.23	Passed
	24250	BW:20.0;QPSK	1(RB-Pos:HIGH)	20.3	25.7	22.78	Passed
	24250	BW:20.0;QPSK	18(RB-Pos:LOW)	20.3	25.7	23.31	Passed
	24250	BW:20.0;QPSK	18(RB-Pos:LOW)	20.3	25.7	22.95	Passed
	24300	BW:20.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	23.24	Passed
	24300	BW:20.0;QPSK	1(RB-Pos:HIGH)	20.3	25.7	23.03	Passed
	24300	BW:20.0;QPSK	18(RB-Pos:LOW)	20.3	25.7	23.08	Passed
	24300	BW:20.0;QPSK	18(RB-Pos:LOW)	20.3	25.7	22.81	Passed
	24350	BW:20.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	23.24	Passed
	24350	BW:20.0;QPSK	1(RB-Pos:HIGH)	20.3	25.7	23.09	Passed
	24350	BW:20.0;QPSK	18(RB-Pos:LOW)	20.3	25.7	23.05	Passed
	24350	BW:20.0;QPSK	18(RB-Pos:LOW)	20.3	25.7	22.94	Passed



LTE Band	Channel Number	Bandwidth (MHz) and modulation	RB Set	Limit low (dBm)	Limit high (dBm)	Result (dBm)	verdict
28	27225	BW:3;QPSK	1(RB-Pos:LOW)	20.3	25.7	23.18	Passed
	27225	BW:3;QPSK	1(RB-Pos:LOW)	20.3	25.7	23.10	Passed
	27225	BW:3;QPSK	4(RB-Pos:LOW)	20.3	25.7	23.19	Passed
	27225	BW:3;QPSK	4(RB-Pos:LOW)	20.3	25.7	23.30	Passed
	27375	BW:3;QPSK	1(RB-Pos:LOW)	20.3	25.7	23.21	Passed
	27375	BW:3;QPSK	1(RB-Pos:LOW)	20.3	25.7	23.21	Passed
	27375	BW:3;QPSK	4(RB-Pos:LOW)	20.3	25.7	23.08	Passed
	27375	BW:3;QPSK	4(RB-Pos:LOW)	20.3	25.7	23.25	Passed
	27645	BW:3;QPSK	1(RB-Pos:LOW)	20.3	25.7	23.25	Passed
	27645	BW:3;QPSK	1(RB-Pos:LOW)	20.3	25.7	23.31	Passed
	27645	BW:3;QPSK	4(RB-Pos:LOW)	20.3	25.7	23.12	Passed
	27645	BW:3;QPSK	4(RB-Pos:LOW)	20.3	25.7	23.11	Passed
	27235	BW:5.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	23.13	Passed
	27235	BW:5.0;QPSK	1(RB-Pos:HIGH)	20.3	25.7	23.10	Passed
	27235	BW:5.0;QPSK	8(RB-Pos:LOW)	20.3	25.7	23.19	Passed
	27235	BW:5.0;QPSK	8(RB-Pos:LOW)	20.3	25.7	23.15	Passed
	27385	BW:5.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	23.17	Passed
	27385	BW:5.0;QPSK	1(RB-Pos:HIGH)	20.3	25.7	23.24	Passed
	27385	BW:5.0;QPSK	8(RB-Pos:LOW)	20.3	25.7	23.16	Passed
	27385	BW:5.0;QPSK	8(RB-Pos:LOW)	20.3	25.7	23.26	Passed
	27635	BW:5.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	22.96	Passed
	27635	BW:5.0;QPSK	1(RB-Pos:HIGH)	20.3	25.7	22.92	Passed
	27635	BW:5.0;QPSK	8(RB-Pos:LOW)	20.3	25.7	23.16	Passed
	27635	BW:5.0;QPSK	8(RB-Pos:LOW)	20.3	25.7	23.06	Passed
	27310	BW:20.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	23.25	Passed
	27310	BW:20.0;QPSK	1(RB-Pos:HIGH)	20.3	25.7	23.31	Passed
	27310	BW:20.0;QPSK	18(RB-Pos:LOW)	20.3	25.7	23.13	Passed
	27310	BW:20.0;QPSK	18(RB-Pos:LOW)	20.3	25.7	23.20	Passed
	27460	BW:20.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	23.24	Passed
	27460	BW:20.0;QPSK	1(RB-Pos:HIGH)	20.3	25.7	23.23	Passed
	27460	BW:20.0;QPSK	18(RB-Pos:LOW)	20.3	25.7	23.11	Passed
	27460	BW:20.0;QPSK	18(RB-Pos:LOW)	20.3	25.7	23.07	Passed
	27560	BW:20.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	23.27	Passed
	27560	BW:20.0;QPSK	1(RB-Pos:HIGH)	20.3	25.7	23.30	Passed
	27560	BW:20.0;QPSK	18(RB-Pos:LOW)	20.3	25.7	23.11	Passed
	27560	BW:20.0;QPSK	18(RB-Pos:LOW)	20.3	25.7	23.06	Passed



LTE Band	Channel Number	Bandwidth (MHz) and modulation	RB Set	Limit low (dBm)	Limit high (dBm)	Result (dBm)	verdict
38	37775	BW:5.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	23.49	Passed
	37775	BW:5.0;QPSK	1(RB-Pos:HIGH)	20.3	25.7	23.54	Passed
	37775	BW:5.0;QPSK	8(RB-Pos:LOW)	20.3	25.7	23.46	Passed
	37775	BW:5.0;QPSK	8(RB-Pos:HIGH)	20.3	25.7	23.42	Passed
	38000	BW:5.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	23.30	Passed
	38000	BW:5.0;QPSK	1(RB-Pos:HIGH)	20.3	25.7	23.34	Passed
	38000	BW:5.0;QPSK	8(RB-Pos:LOW)	20.3	25.7	23.41	Passed
	38000	BW:5.0;QPSK	8(RB-Pos:HIGH)	20.3	25.7	23.49	Passed
	38225	BW:5.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	23.49	Passed
	38225	BW:5.0;QPSK	1(RB-Pos:HIGH)	20.3	25.7	23.58	Passed
	38225	BW:5.0;QPSK	8(RB-Pos:LOW)	20.3	25.7	23.41	Passed
	38225	BW:5.0;QPSK	8(RB-Pos:HIGH)	20.3	25.7	23.35	Passed
	37850	BW:20.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	23.45	Passed
	37850	BW:20.0;QPSK	1(RB-Pos:HIGH)	20.3	25.7	23.42	Passed
	37850	BW:20.0;QPSK	18(RB-Pos:LOW)	20.3	25.7	23.54	Passed
	37850	BW:20.0;QPSK	18(RB-Pos:HIGH)	20.3	25.7	23.37	Passed
	38000	BW:20.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	23.21	Passed
	38000	BW:20.0;QPSK	1(RB-Pos:HIGH)	20.3	25.7	23.18	Passed
	38000	BW:20.0;QPSK	18(RB-Pos:LOW)	20.3	25.7	23.44	Passed
	38000	BW:20.0;QPSK	18(RB-Pos:HIGH)	20.3	25.7	23.34	Passed
	38150	BW:20.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	23.48	Passed
	38150	BW:20.0;QPSK	1(RB-Pos:HIGH)	20.3	25.7	23.42	Passed
	38150	BW:20.0;QPSK	18(RB-Pos:LOW)	20.3	25.7	23.48	Passed
	38150	BW:20.0;QPSK	18(RB-Pos:HIGH)	20.3	25.7	23.33	Passed



LTE Band	Channel Number	Bandwidth (MHz) and modulation	RB Set	Limit low (dBm)	Limit high (dBm)	Result (dBm)	verdict
40	38675	BW:5.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	24.42	Passed
	38675	BW:5.0;QPSK	1(RB-Pos:HIG)	20.3	25.7	24.34	Passed
	38675	BW:5.0;QPSK	8(RB-Pos:LOW)	20.3	25.7	24.30	Passed
	38675	BW:5.0;QPSK	8(RB-Pos:HIG)	20.3	25.7	24.30	Passed
	39150	BW:5.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	24.13	Passed
	39150	BW:5.0;QPSK	1(RB-Pos:HIG)	20.3	25.7	24.25	Passed
	39150	BW:5.0;QPSK	8(RB-Pos:LOW)	20.3	25.7	24.39	Passed
	39150	BW:5.0;QPSK	8(RB-Pos:HIG)	20.3	25.7	24.35	Passed
	39625	BW:5.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	24.40	Passed
	39625	BW:5.0;QPSK	1(RB-Pos:HIG)	20.3	25.7	24.40	Passed
	39625	BW:5.0;QPSK	8(RB-Pos:LOW)	20.3	25.7	24.43	Passed
	39625	BW:5.0;QPSK	8(RB-Pos:HIG)	20.3	25.7	24.25	Passed
	38750	BW:20.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	24.32	Passed
	38750	BW:20.0;QPSK	1(RB-Pos:HIG)	20.3	25.7	24.31	Passed
	38750	BW:20.0;QPSK	18(RB-Pos:LOW)	20.3	25.7	24.22	Passed
	38750	BW:20.0;QPSK	18(RB-Pos:HIG)	20.3	25.7	24.35	Passed
	39150	BW:20.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	24.33	Passed
	39150	BW:20.0;QPSK	1(RB-Pos:HIG)	20.3	25.7	24.44	Passed
	39150	BW:20.0;QPSK	18(RB-Pos:LOW)	20.3	25.7	24.39	Passed
	39150	BW:20.0;QPSK	18(RB-Pos:HIG)	20.3	25.7	24.32	Passed
	39550	BW:20.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	24.48	Passed
	39550	BW:20.0;QPSK	1(RB-Pos:HIG)	20.3	25.7	24.48	Passed
	39550	BW:20.0;QPSK	18(RB-Pos:LOW)	20.3	25.7	24.43	Passed
	39550	BW:20.0;QPSK	18(RB-Pos:HIG)	20.3	25.7	24.44	Passed



10.1 Tune up power

Mode	GSM900	GSM1800
GSM/PCS	33±1dBm	30.5±1dBm
GPRS (1 Slot)	33±1dBm	30.5±1dBm
GPRS (2 Slot)	31±1dBm	28±1dBm
GPRS (3 Slot)	29±1dBm	26.5±1dBm
GPRS (4 Slot)	27±1dBm	24.5±1dBm
EDGE (1 Slot)	26.5±1dBm	26.5±1dBm
EDGE (2 Slot)	26±1dBm	25±1dBm
EDGE (3 Slot)	23.5±1dBm	23±1dBm
EDGE (4 Slot)	21±1dBm	21.5±1dBm

Mode	WCDMA Band 1	WCDMA Band 8
RMC	22.5±1dBm	22.5±1dBm
HSDPA Subtest-1	22±1dBm	22±1dBm
HSDPA Subtest-2	21.5±1dBm	22±1dBm
HSDPA Subtest-4	21±1dBm	21.5±1dBm
HSUPA Subtest-1	21.5±1dBm	22±1dBm
HSUPA Subtest-2	21.5±1dBm	22±1dBm
HSUPA Subtest-3	21.5±1dBm	22±1dBm
HSUPA Subtest-4	21.5±1dBm	22±1dBm
HSUPA Subtest-5	21.5±1dBm	22±1dBm

BW[MHz]	Mode	Band 1	Band 3	Band 7
1.4	QPSK	/	23±1dBm	/
3	QPSK	/	/	/
5	QPSK	22±1dBm	23±1dBm	23.5±1dBm
10	QPSK	/	/	/
20	QPSK	22±1dBm	23±1dBm	23.5±1dBm

BW[MHz]	Mode	Band 8	Band 20	Band 28	Band 38	Band 40
1.4	QPSK	23±1dBm	/	/	/	/
3	QPSK	/	/	22.5±1dBm	/	/
5	QPSK	23±1dBm	22.5±1dBm	22.5±1dBm	23±1dBm	23.5±1dBm
10	QPSK	23±1dBm	/	/	/	/
20	QPSK	/	22.5±1dBm	22.5±1dBm	23±1dBm	23.4±1dBm

Mode	2.4G WLAN
802.11b	12.5±1dBm
802.11n(HT 20)	12.5±1dBm
802.11ac(VHT 20)	13.5±1dBm

Mode	5.2G WLAN
802.11a	12.5±1dBm
802.11 n-HT20	13±1dBm
802.11 ac-VHT20	11.5±1dBm



Mode	5.3G WLAN
802.11a	11.5±1dBm
802.11 n-HT20	12.5±1dBm
802.11 ac-VHT20	11.5±1dBm

Mode	5.8G WLAN
802.11a	9.5±1dBm
802.11 n-HT20	10.5±1dBm
802.11 ac-VHT20	9.5±1dBm

Mode	BT
GFSK	3.5±1dBm
$\pi/4$ -DQPSK	1.5±1dBm
8DPSK	2±1dBm

Mode	BLE
GFSK(1Mbps)	1±1dBm

11. Test Photos and Results

11.1 EUT Photos

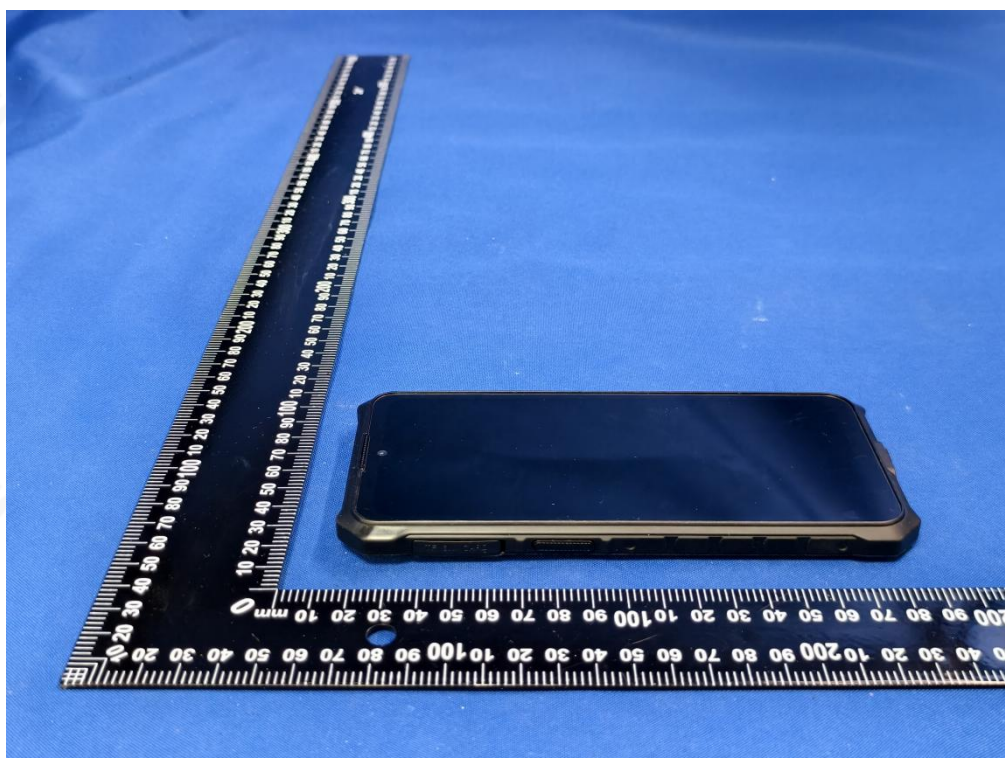
Front side



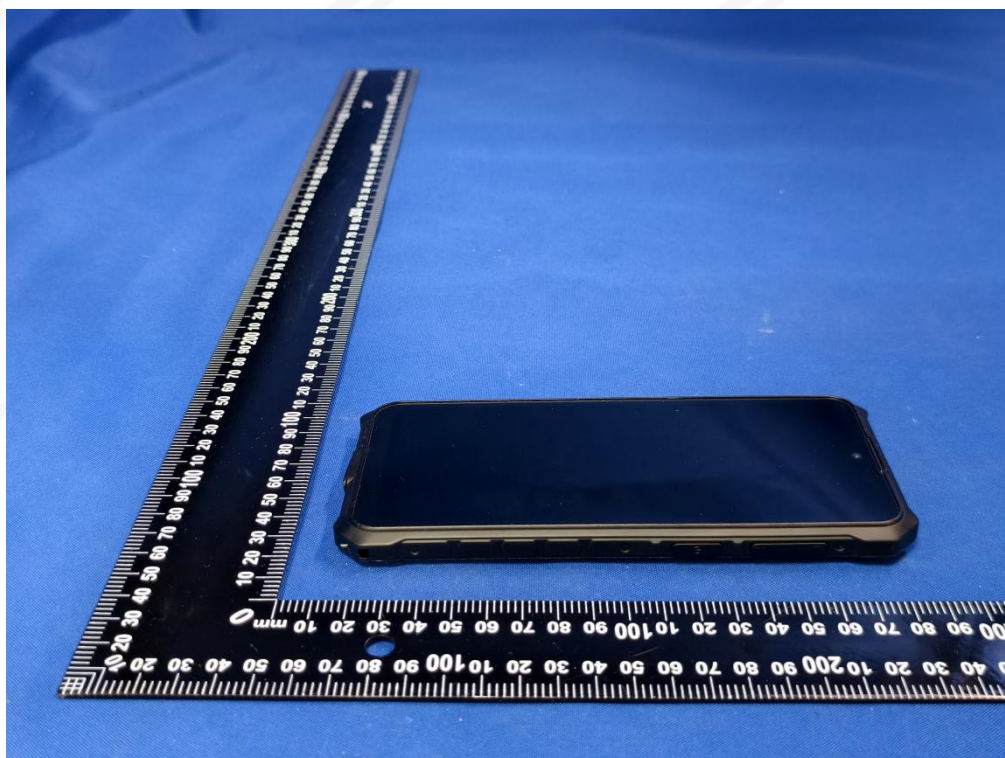
Back side



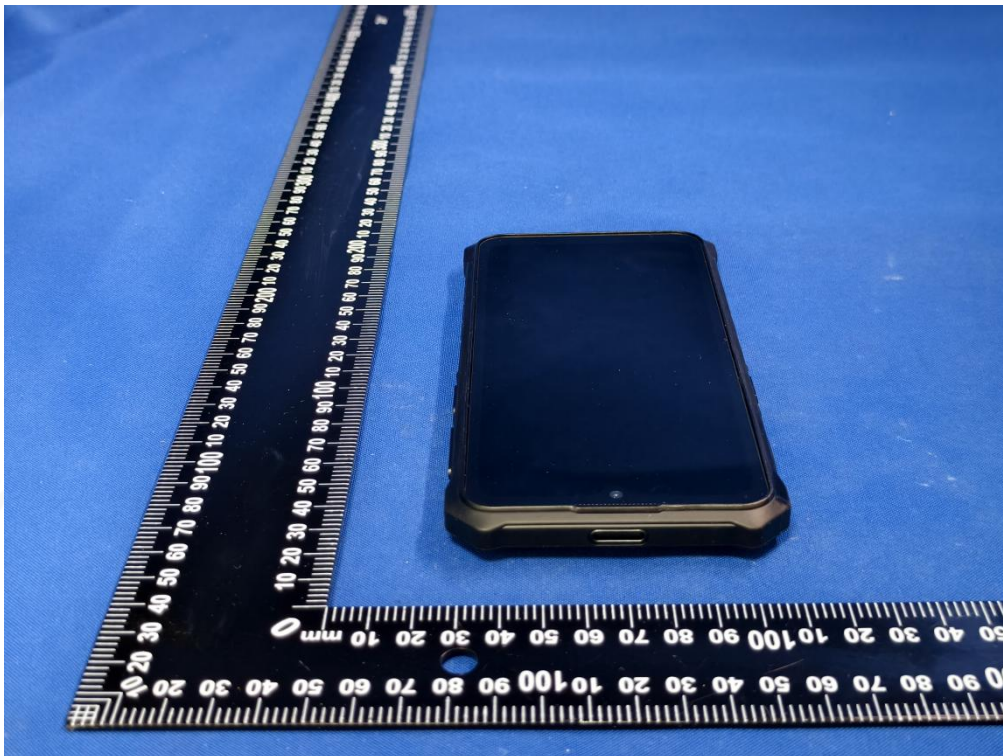
Left Edge



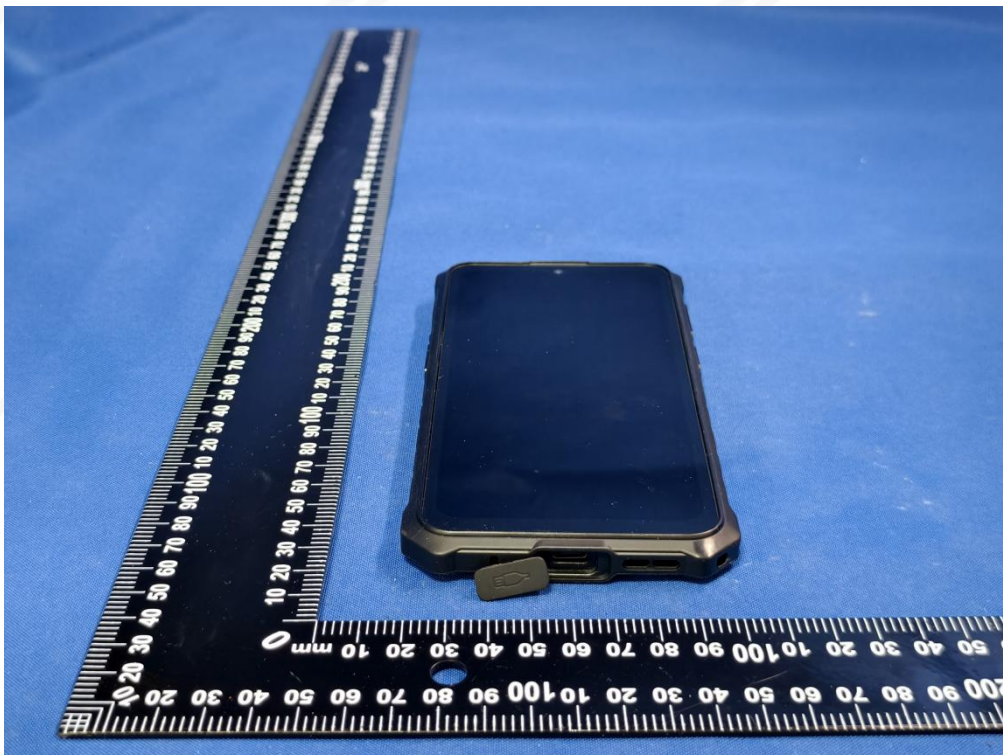
Right Edge



Top Edge



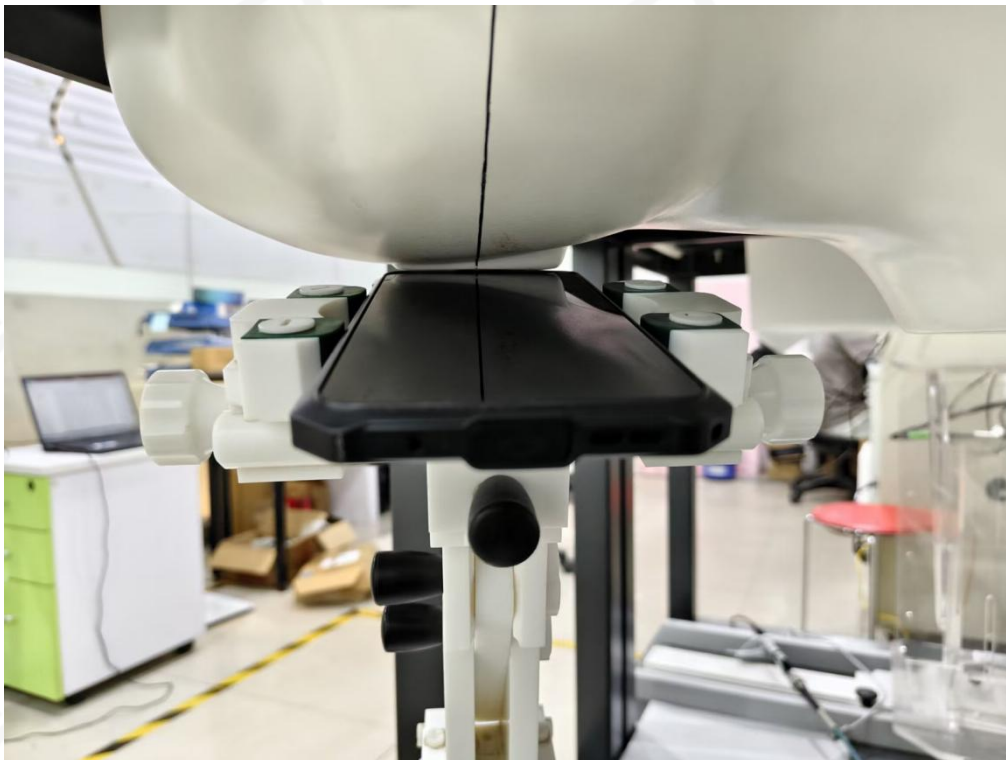
Bottom Edge



Right Cheek



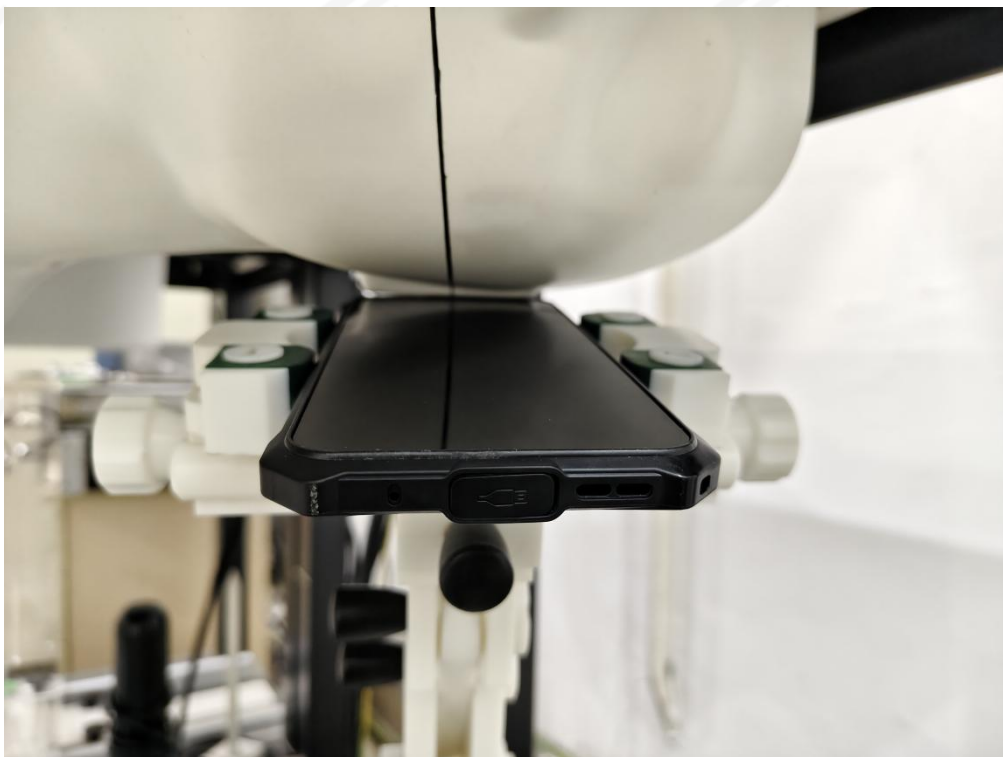
Right Tilt



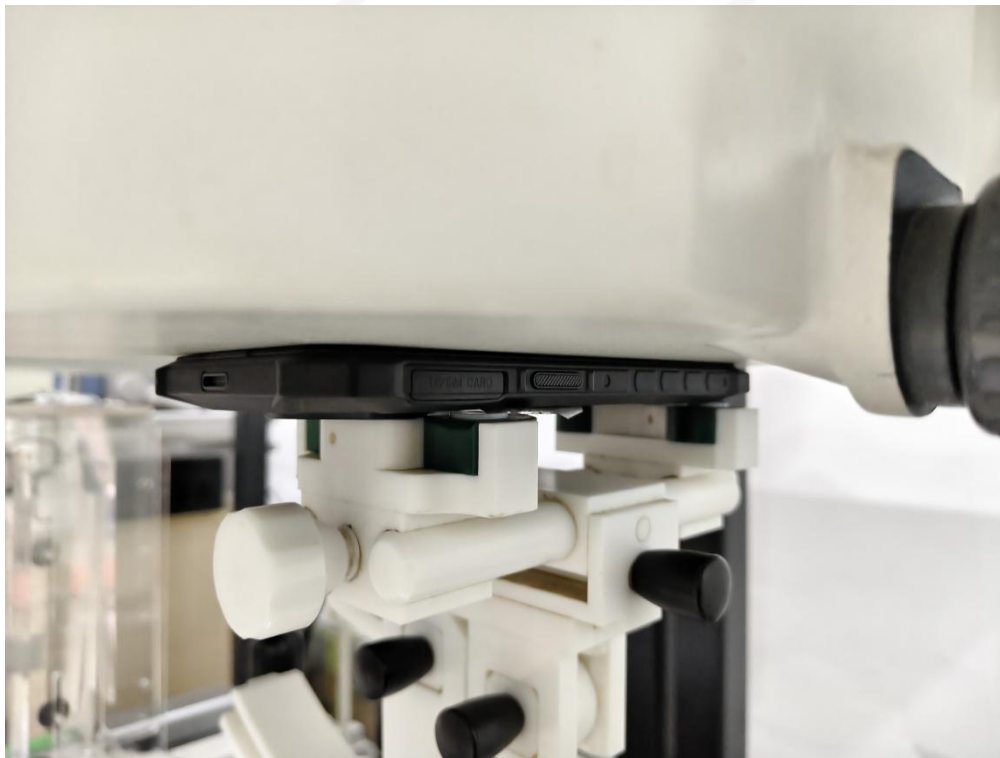
Left Cheek



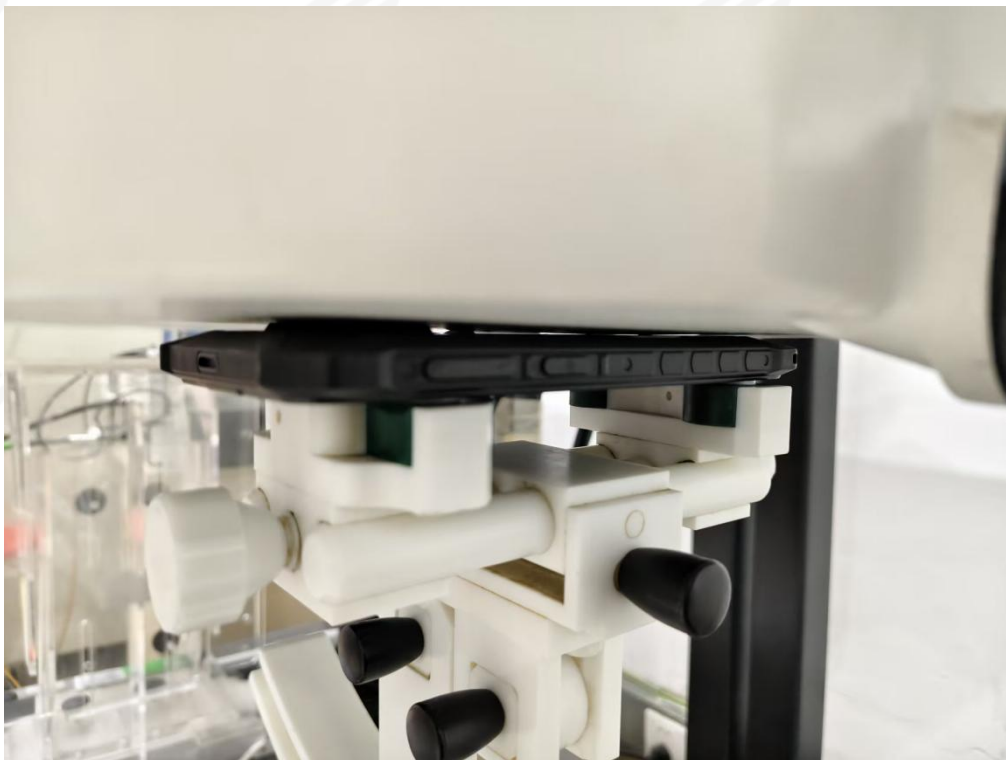
Left Tilt



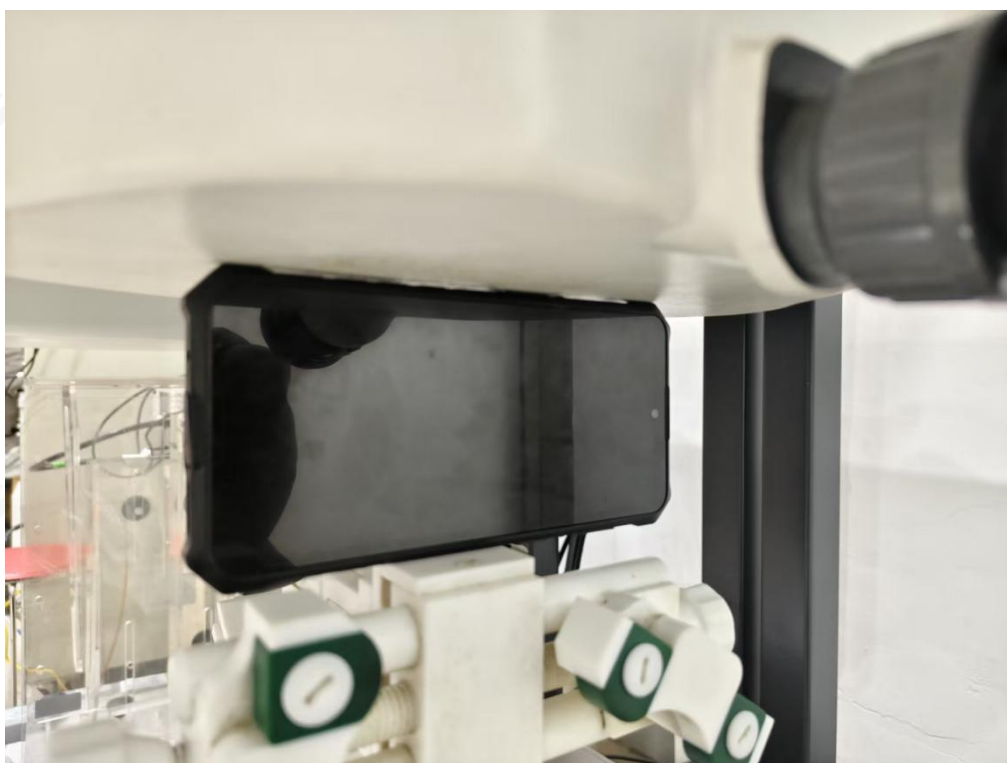
Front Side(separation distance is 0mm)



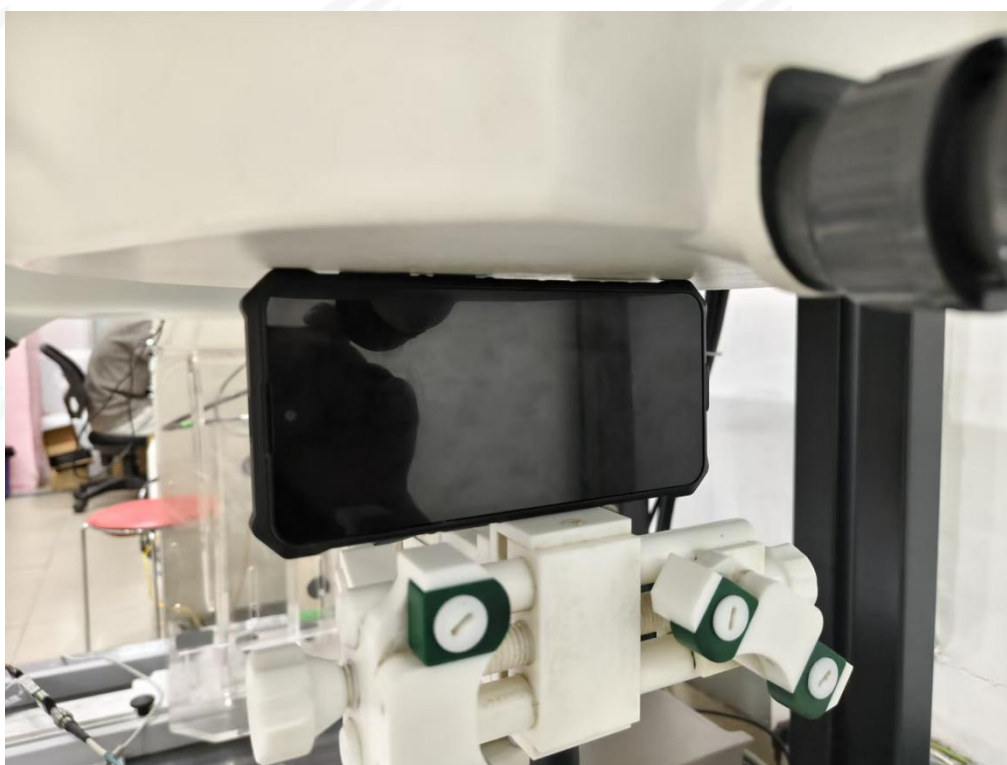
Back Side(separation distance is 0mm)



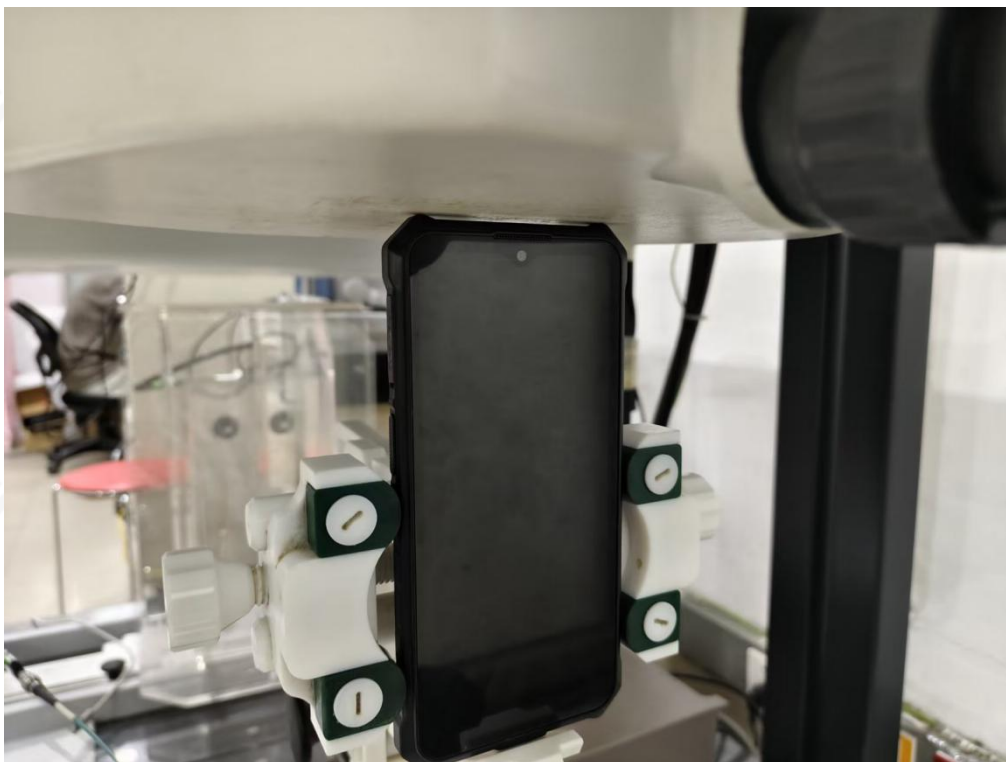
Left Edge(separation distance is 0mm)



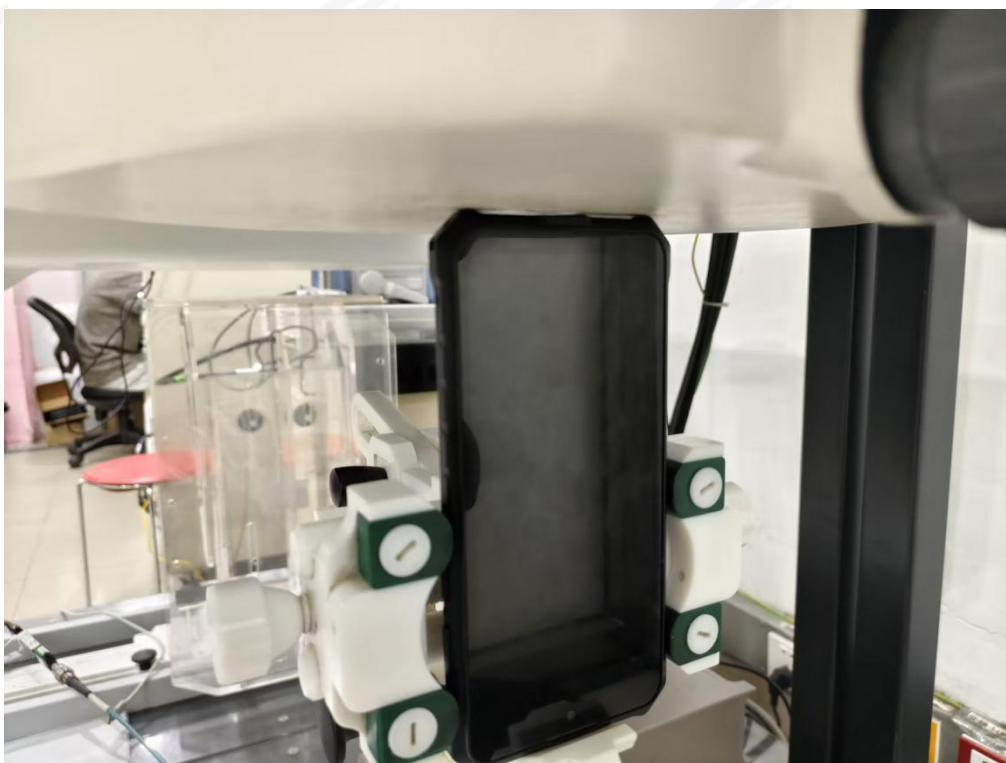
Right Edge(separation distance is 0mm)



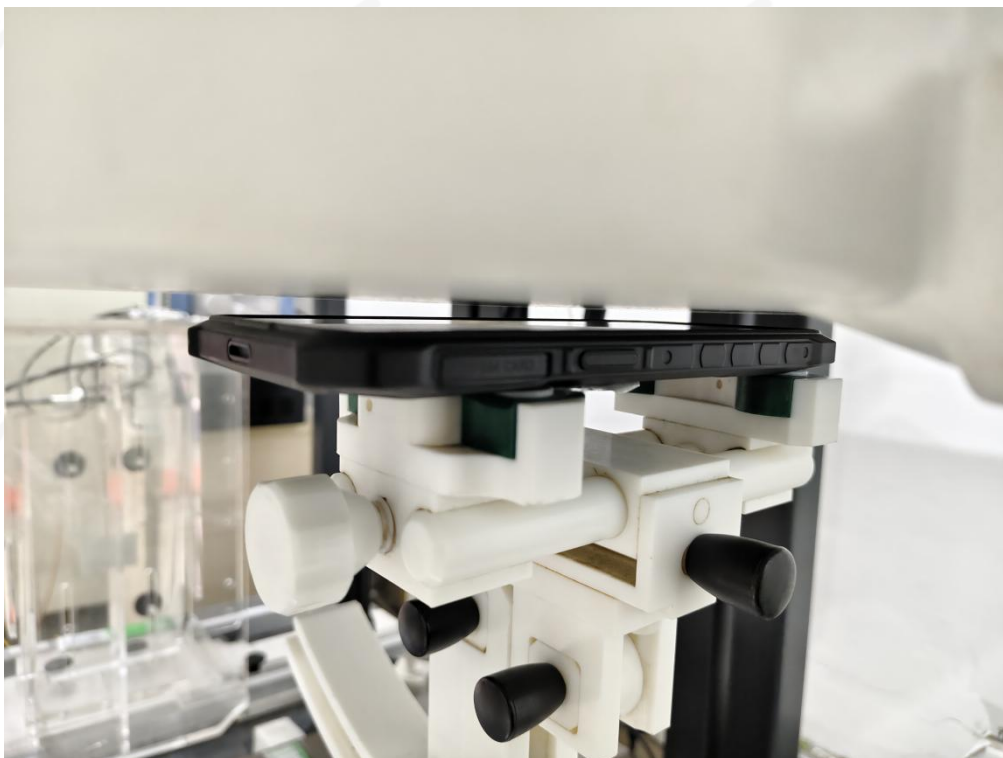
Top Edge(separation distance is 0mm)



Bottom Edge(separation distance is 0mm)



Front Side(separation distance is 5mm)



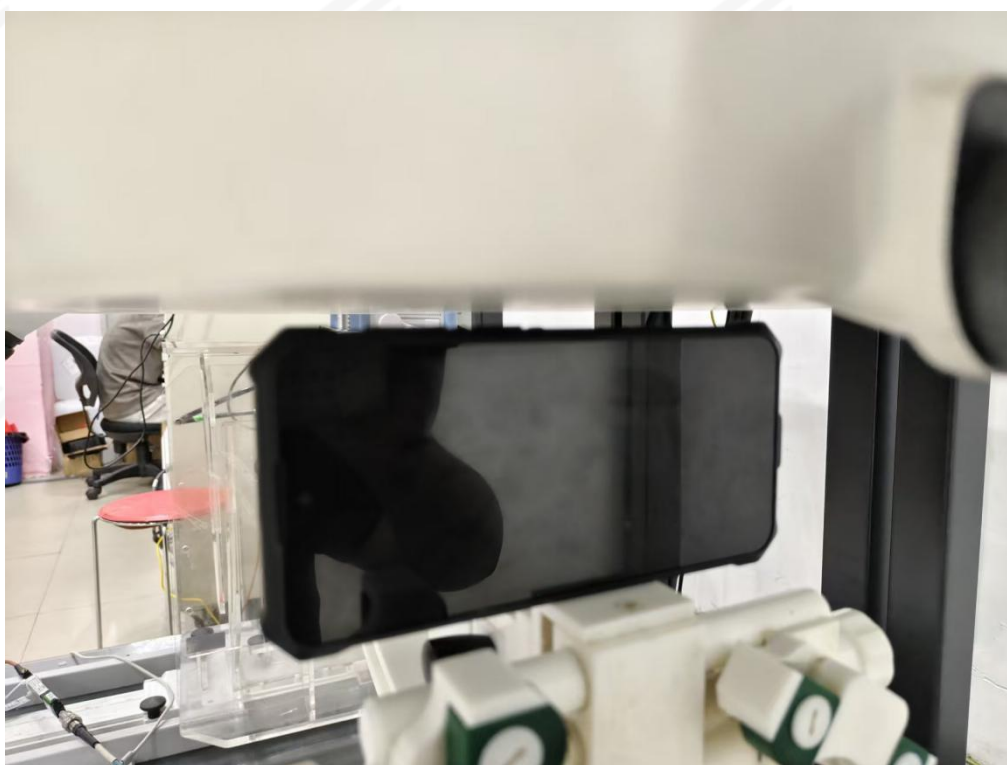
Back Side(separation distance is 5mm)



Left Edge(separation distance is 5mm)



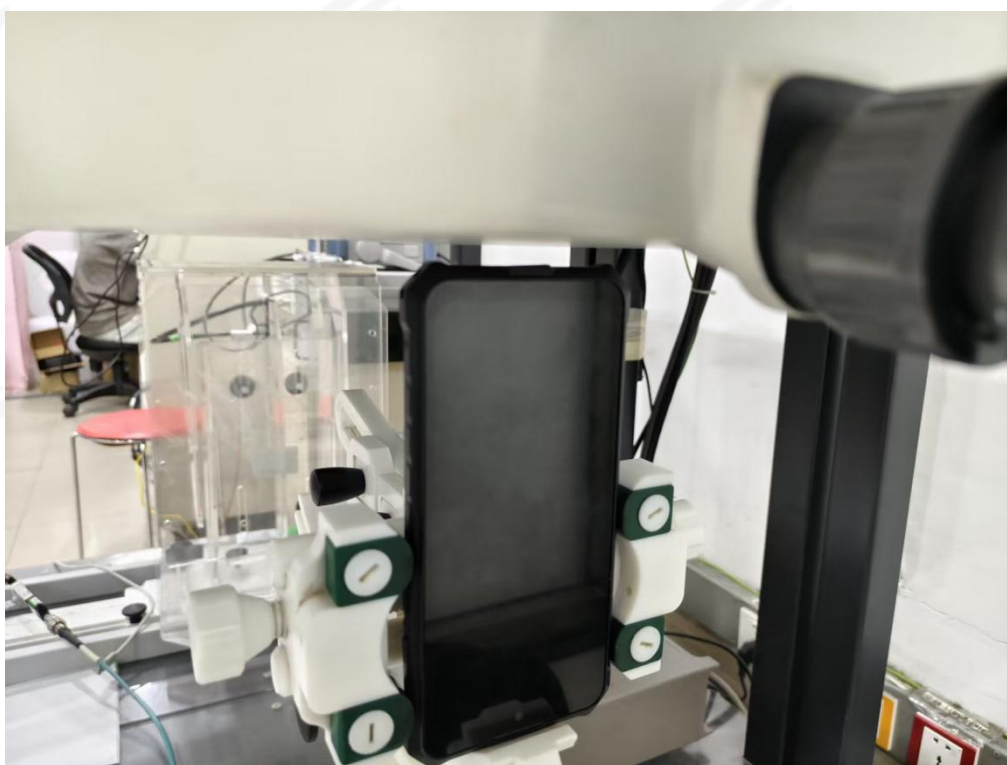
Right Edge(separation distance is 5mm)



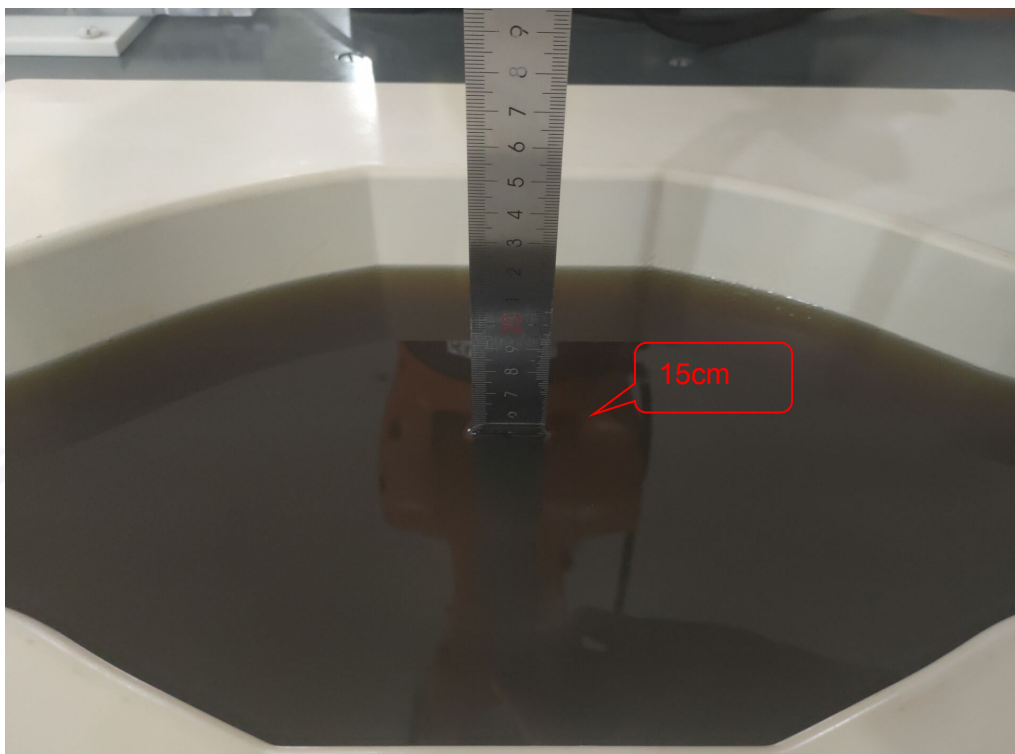
Top Edge(separation distance is 5mm)



Bottom Edge(separation distance is 5mm)



Liquid depth (15 cm)





12. SAR Result Summary

12.1 Head SAR

Band	Model	Test Position	Freq.	SAR (10g) (W/kg)	Power Drift(%)	Max.Turn-up Power(dBm)	Meas.Output Power(dBm)	Scaled SAR (W/Kg)	Meas.No.
GSM900	Voice	Right Cheek	897.4	0.107	-3.33	34.00	33.55	0.119	1
		Right Tilt	897.4	0.051	3.02	34.00	33.55	0.057	/
		Left Cheek	897.4	0.088	1.39	34.00	33.55	0.098	/
		Left Tilt	897.4	0.042	-0.32	34.00	33.55	0.047	/
GSM1800	Voice	Right Cheek	1710.2	0.046	-2.63	31.50	31.20	0.049	4
		Right Tilt	1710.2	0.022	0.93	31.50	31.20	0.024	/
		Left Cheek	1710.2	0.037	-2.26	31.50	31.20	0.040	/
		Left Tilt	1710.2	0.018	0.29	31.50	31.20	0.019	/
WCDMA Band I	RMC	Right Cheek	1977.6	0.047	-1.46	23.50	23.39	0.048	7
		Right Tilt	1977.6	0.030	-2.96	23.50	23.39	0.031	/
		Left Cheek	1977.6	0.042	-0.36	23.50	23.39	0.043	/
		Left Tilt	1977.6	0.025	3.26	23.50	23.39	0.026	/
WCDMA Band VIII	RMC	Right Cheek	897.4	0.090	1.83	23.50	23.20	0.096	10
		Right Tilt	897.4	0.031	-2.59	23.50	23.20	0.033	/
		Left Cheek	897.4	0.079	-1.03	23.50	23.20	0.085	/
		Left Tilt	897.4	0.024	0.88	23.50	23.20	0.026	/
LTE Band 1	20MHz BW, 1RB Offset 0	Right Cheek	1970	0.053	0.12	23.00	22.80	0.055	13
		Right Tilt	1950	0.022	-3.90	23.00	22.80	0.023	/
		Left Cheek	1950	0.045	-0.86	23.00	22.80	0.047	/
		Left Tilt	1950	0.015	2.51	23.00	22.80	0.016	/
LTE Band 3	20MHz BW, 1RB Offset 0	Right Cheek	1775	0.063	-3.98	24.00	23.91	0.064	16
		Right Tilt	1775	0.033	-1.63	24.00	23.91	0.034	/
		Left Cheek	1775	0.055	2.70	24.00	23.91	0.056	/
		Left Tilt	1775	0.031	0.85	24.00	23.91	0.032	/
LTE Band 7	20MHz BW, 1RB Offset 0	Right Cheek	2535	0.056	-1.01	24.50	24.35	0.058	19
		Right Tilt	2535	0.021	1.37	24.50	24.35	0.022	/
		Left Cheek	2535	0.046	-2.06	24.50	24.35	0.048	/
		Left Tilt	2535	0.015	-0.92	24.50	24.35	0.016	/
LTE Band 8	10MHz BW, 12RB Offset 0	Right Cheek	910	0.085	1.13	24.00	23.89	0.087	22
		Right Tilt	910	0.053	-1.88	24.00	23.89	0.054	/
		Left Cheek	910	0.081	2.68	24.00	23.89	0.083	/
		Left Tilt	910	0.044	2.59	24.00	23.89	0.045	/
LTE Band 20	20MHz BW, 18RB Offset 0	Right Cheek	842	0.104	-2.18	23.50	23.31	0.109	25
		Right Tilt	842	0.050	-2.89	23.50	23.31	0.052	/
		Left Cheek	842	0.084	-3.27	23.50	23.31	0.088	/
		Left Tilt	842	0.041	2.99	23.50	23.31	0.043	/
LTE Band 28	20MHz BW, 1RB Offset 0	Right Cheek	713	0.096	-1.55	23.50	23.31	0.100	28
		Right Tilt	713	0.052	-3.12	23.50	23.31	0.054	/
		Left Cheek	713	0.077	2.18	23.50	23.31	0.080	/
		Left Tilt	713	0.036	-1.53	23.50	23.31	0.038	/



LTE Band 38	20MHz BW, 18RB Offset 0	Right Cheek	2580	0.028	-2.75	24.00	23.54	0.031	31
		Right Tilt	2580	0.011	-3.23	24.00	23.54	0.012	/
		Left Cheek	2580	0.022	-1.44	24.00	23.54	0.024	/
		Left Tilt	2580	0.008	2.98	24.00	23.54	0.009	/
LTE Band 40	20MHz BW, 1RB Offset 0	Right Cheek	2390	0.050	3.58	24.50	24.48	0.050	34
		Right Tilt	2390	0.021	1.58	24.50	24.48	0.021	/
		Left Cheek	2390	0.044	-0.69	24.50	24.48	0.044	/
		Left Tilt	2390	0.013	-3.18	24.50	24.48	0.013	/
2.4GHz WLAN	802.11b	Right Cheek	2472	0.121	-2.00	13.50	13.48	0.122	37
		Right Tilt	2472	0.087	1.44	13.50	13.48	0.087	/
		Left Cheek	2472	0.102	3.90	13.50	13.48	0.102	/
		Left Tilt	2472	0.072	-0.32	13.50	13.48	0.072	/
5.2GHz WLAN	802.11 n-HT20	Right Cheek	5180	0.132	-3.60	14.00	13.64	0.143	40
		Right Tilt	5180	0.074	-0.61	14.00	13.64	0.080	/
		Left Cheek	5180	0.112	2.74	14.00	13.64	0.122	/
		Left Tilt	5180	0.063	-1.60	14.00	13.64	0.068	/
5.3GHz WLAN	802.11 n-HT20	Right Cheek	5320	0.140	-0.83	13.50	13.37	0.144	43
		Right Tilt	5320	0.088	2.66	13.50	13.37	0.091	/
		Left Cheek	5320	0.116	-3.71	13.50	13.37	0.120	/
		Left Tilt	5320	0.073	2.96	13.50	13.37	0.075	/
5.8GHz WLAN	802.11 n-HT20	Right Cheek	5785	0.148	-3.12	11.50	11.02	0.165	46
		Right Tilt	5785	0.078	-1.74	11.50	11.02	0.087	/
		Left Cheek	5785	0.131	-0.55	11.50	11.02	0.146	/
		Left Tilt	5785	0.064	-3.38	11.50	11.02	0.071	/

Note:

1. The test separation of all above table is 0mm.
2. Two SIM card slot can't work at the same time.
3. When the 10g SAR is $\leq 1.0W/kg$, testing for low and high channel is optional.



12.2 Body SAR

Band	Model	Test Position	Freq.	SAR (10g) (W/kg)	Power Drift(%)	Max.Turn-up Power(dBm)	Meas.Output Power(dBm)	Scaled SAR (W/Kg)	Meas.No.
GSM900	GPRS (GMSK, 2-Slot)	Front Side	914.8	0.161	-0.11	32.00	31.53	0.179	/
		Back Side	914.8	0.241	-1.90	32.00	31.53	0.269	2
		Left Edge	914.8	0.116	-0.07	32.00	31.53	0.129	/
		Right Edge	914.8	0.096	2.08	32.00	31.53	0.107	/
		Top Edge	914.8	0.067	1.82	32.00	31.53	0.075	/
		Bottom Edge	914.8	0.102	3.15	32.00	31.53	0.114	/
GSM1800	GPRS (GMSK, 3-Slot)	Front Side	1747.8	0.176	3.36	27.50	27.42	0.179	/
		Back Side	1747.8	0.309	2.41	27.50	27.42	0.315	5
		Left Edge	1747.8	0.155	0.82	27.50	27.42	0.158	/
		Right Edge	1747.8	0.121	0.80	27.50	27.42	0.123	/
		Top Edge	1747.8	0.088	1.51	27.50	27.42	0.090	/
		Bottom Edge	1747.8	0.113	-0.17	27.50	27.42	0.115	/
WCDMA Band I	RMC	Front Side	1977.6	0.150	-2.33	23.50	23.39	0.154	/
		Back Side	1977.6	0.254	-2.55	23.50	23.39	0.261	8
		Left Edge	1977.6	0.121	-2.12	23.50	23.39	0.124	/
		Right Edge	1977.6	0.116	-0.05	23.50	23.39	0.119	/
		Top Edge	1977.6	0.074	-1.91	23.50	23.39	0.076	/
		Bottom Edge	1977.6	0.099	1.80	23.50	23.39	0.102	/
WCDMA Band VIII	RMC	Front Side	897.4	0.115	-2.79	23.50	23.20	0.123	/
		Back Side	897.4	0.207	3.43	23.50	23.20	0.222	11
		Left Edge	897.4	0.076	1.42	23.50	23.20	0.081	/
		Right Edge	897.4	0.061	1.55	23.50	23.20	0.065	/
		Top Edge	897.4	0.043	3.81	23.50	23.20	0.046	/
		Bottom Edge	897.4	0.096	-0.89	23.50	23.20	0.103	/
LTE Band 1	20MHz BW, 1RB Offset 0	Front Side	1950	0.251	3.20	23.00	22.80	0.263	/
		Back Side	1950	0.372	0.04	23.00	22.80	0.390	14
		Left Edge	1950	0.117	1.42	23.00	22.80	0.123	/
		Right Edge	1950	0.102	-3.27	23.00	22.80	0.107	/
		Top Edge	1950	0.066	2.70	23.00	22.80	0.069	/
		Bottom Edge	1950	0.210	3.66	23.00	22.80	0.220	/
LTE Band 3	20MHz BW, 1RB Offset 0	Front Side	1775	0.365	-2.15	24.00	23.91	0.373	/
		Back Side	1775	0.487	3.15	24.00	23.91	0.497	17
		Left Edge	1775	0.264	-0.84	24.00	23.91	0.270	/
		Right Edge	1775	0.219	-0.45	24.00	23.91	0.224	/
		Top Edge	1775	0.098	-2.19	24.00	23.91	0.100	/
		Bottom Edge	1775	0.296	-3.59	24.00	23.91	0.302	/
LTE Band 7	20MHz BW, 1RB Offset 0	Front Side	2535	0.381	0.60	24.50	24.35	0.394	/
		Back Side	2510	0.487	2.23	24.50	24.30	0.510	/
		Back Side	2535	0.502	-0.33	24.50	24.35	0.520	20
		Back Side	2560	0.426	1.95	24.50	24.03	0.475	/
		Left Edge	2535	0.274	-1.97	24.50	24.35	0.284	/
		Right Edge	2535	0.237	-2.55	24.50	24.35	0.245	/
		Top Edge	2535	0.116	-0.71	24.50	24.35	0.120	/
		Bottom Edge	2535	0.359	-0.87	24.50	24.35	0.372	/



LTE Band 8	20MHz BW, 12RB Offset 0	Front Side	910	0.181	-3.64	24.00	23.89	0.186	/
		Back Side	910	0.265	-1.68	24.00	23.89	0.272	23
		Left Edge	910	0.111	2.65	24.00	23.89	0.114	/
		Right Edge	910	0.096	-1.09	24.00	23.89	0.098	/
		Top Edge	910	0.077	-3.88	24.00	23.89	0.079	/
		Bottom Edge	910	0.135	0.34	24.00	23.89	0.138	/
LTE Band 20	20MHz BW, 18RB Offset 0	Front Side	842	0.223	1.97	23.50	23.31	0.233	/
		Back Side	842	0.302	3.19	23.50	23.31	0.316	26
		Left Edge	842	0.098	-1.56	23.50	23.31	0.102	/
		Right Edge	842	0.081	3.95	23.50	23.31	0.085	/
		Top Edge	842	0.055	-2.48	23.50	23.31	0.057	/
		Bottom Edge	842	0.112	-1.28	23.50	23.31	0.117	/
LTE Band 28	20MHz BW, 1RB Offset 0	Front Side	713	0.133	-0.90	23.50	23.31	0.139	/
		Back Side	713	0.269	0.73	23.50	23.31	0.281	29
		Left Edge	713	0.101	2.54	23.50	23.31	0.106	/
		Right Edge	713	0.087	3.66	23.50	23.31	0.091	/
		Top Edge	713	0.049	-2.86	23.50	23.31	0.051	/
		Bottom Edge	713	0.088	-2.91	23.50	23.31	0.092	/
LTE Band 38	20MHz BW, 18RB Offset 0	Front Side	2580	0.096	-2.53	24.00	23.54	0.107	/
		Back Side	2580	0.131	3.94	24.00	23.54	0.146	32
		Left Edge	2580	0.073	0.46	24.00	23.54	0.081	/
		Right Edge	2580	0.067	-0.55	24.00	23.54	0.074	/
		Top Edge	2580	0.033	1.34	24.00	23.54	0.037	/
		Bottom Edge	2580	0.085	2.80	24.00	23.54	0.094	/
LTE Band 40	20MHz BW, 1RB Offset 0	Front Side	2390	0.313	-3.85	24.50	24.48	0.314	/
		Back Side	2390	0.416	2.11	24.50	24.48	0.418	35
		Left Edge	2390	0.264	-1.79	24.50	24.48	0.265	/
		Right Edge	2390	0.213	-1.90	24.50	24.48	0.214	/
		Top Edge	2390	0.161	2.82	24.50	24.48	0.162	/
		Bottom Edge	2390	0.334	1.07	24.50	24.48	0.336	/
2.4GHz WLAN	802.11b	Front Side	2472	0.064	-3.62	13.50	13.48	0.064	/
		Back Side	2472	0.092	1.16	13.50	13.48	0.092	38
		Left Edge	2472	0.038	2.74	13.50	13.48	0.038	/
		Right Edge	2472	0.029	-2.89	13.50	13.48	0.029	/
		Top Edge	2472	0.011	-2.43	13.50	13.48	0.011	/
		Bottom Edge	2472	0.055	3.01	13.50	13.48	0.055	/
5.2GHz WLAN	802.11a	Front Side	5180	0.087	0.60	14.00	13.64	0.095	/
		Back Side	5180	0.116	0.35	14.00	13.64	0.126	41
		Left Edge	5180	0.053	-0.65	14.00	13.64	0.058	/
		Right Edge	5180	0.049	1.37	14.00	13.64	0.053	/
		Top Edge	5180	0.028	-1.63	14.00	13.64	0.030	/
		Bottom Edge	5180	0.076	-1.28	14.00	13.64	0.083	/
5.3GHz WLAN	802.11n-HT20	Front Side	5320	0.093	-2.74	13.50	13.37	0.096	/
		Back Side	5320	0.115	1.74	13.50	13.37	0.118	44
		Left Edge	5320	0.066	-3.75	13.50	13.37	0.068	/
		Right Edge	5320	0.058	-0.60	13.50	13.37	0.060	/
		Top Edge	5320	0.032	-1.41	13.50	13.37	0.033	/
		Bottom Edge	5320	0.087	0.96	13.50	13.37	0.090	/
5.8GHz WLAN	802.11n-HT20	Front Side	5785	0.107	-1.82	11.50	11.02	0.120	/
		Back Side	5785	0.131	-0.37	11.50	11.02	0.146	47
		Left Edge	5785	0.097	3.35	11.50	11.02	0.108	/
		Right Edge	5785	0.091	-3.19	11.50	11.02	0.102	/
		Top Edge	5785	0.042	0.75	11.50	11.02	0.047	/
		Bottom Edge	5785	0.112	1.01	11.50	11.02	0.125	/



Note:

1. The test separation of all above table is 5mm.
2. Two SIM card slot can't work at the same time.
3. When the 10g SAR is $\leq 1.0\text{W/kg}$, testing for low and high channel is optional.



12.3 Limbs SAR

Band	Model	Test Position	Freq.	SAR (10g) (W/kg)	Power Drift(%)	Max.Turn-up Power(dBm)	Meas.Output Power(dBm)	Scaled SAR (W/Kg)	Meas.No.
GSM900	GPRS (GMSK, 2-Slot)	Front Side	914.8	0.346	-1.81	32.00	31.53	0.386	/
		Back Side	914.8	0.407	3.53	32.00	31.53	0.454	3
		Left Edge	914.8	0.256	-0.35	32.00	31.53	0.285	/
		Right Edge	914.8	0.237	0.22	32.00	31.53	0.264	/
		Top Edge	914.8	0.161	-3.95	32.00	31.53	0.179	/
		Bottom Edge	914.8	0.293	2.32	32.00	31.53	0.326	/
GSM1800	GPRS (GMSK, 3-Slot)	Front Side	1747.8	0.454	1.39	27.50	27.42	0.462	/
		Back Side	1747.8	0.595	-2.03	27.50	27.42	0.606	6
		Left Edge	1747.8	0.365	0.25	27.50	27.42	0.372	/
		Right Edge	1747.8	0.334	1.38	27.50	27.42	0.340	/
		Top Edge	1747.8	0.187	2.89	27.50	27.42	0.190	/
		Bottom Edge	1747.8	0.421	-1.97	27.50	27.42	0.429	/
WCDMA Band I	RMC	Front Side	1922.4	1.221	1.34	23.50	23.33	1.270	/
		Front Side	1950	1.217	-3.25	23.50	23.33	1.266	/
		Front Side	1977.6	1.323	1.45	23.50	23.39	1.357	/
		Back Side	1922.4	1.576	1.79	23.50	23.33	1.639	/
		Back Side	1950	1.476	-3.18	23.50	23.33	1.535	/
		Back Side	1977.6	1.731	1.03	23.50	23.39	1.775	9
		Left Edge	1977.6	0.716	-1.20	23.50	23.39	0.734	/
		Right Edge	1977.6	0.691	0.72	23.50	23.39	0.709	/
		Top Edge	1977.6	0.323	-3.53	23.50	23.39	0.331	/
		Bottom Edge	1977.6	0.767	-1.07	23.50	23.39	0.787	/
WCDMA Band VIII	RMC	Front Side	897.4	0.113	3.16	23.50	23.20	0.121	/
		Back Side	897.4	0.220	3.53	23.50	23.20	0.236	12
		Left Edge	897.4	0.075	0.03	23.50	23.20	0.080	/
		Right Edge	897.4	0.064	-3.26	23.50	23.20	0.069	/
		Top Edge	897.4	0.087	-1.69	23.50	23.20	0.093	/
		Bottom Edge	897.4	0.095	-3.15	23.50	23.20	0.102	/
LTE Band 1	20MHz BW, 1RB Offset 0	Front Side	1930	1.121	-2.09	23.00	22.61	1.226	/
		Front Side	1950	1.215	2.34	23.00	22.59	1.335	/
		Front Side	1970	1.315	-0.61	23.00	22.80	1.377	/
		Back Side	1930	1.818	3.70	23.00	22.61	1.989	/
		Back Side	1950	1.876	0.45	23.00	22.59	2.062	/
		Back Side	1970	2.016	-2.81	23.00	22.80	2.111	15
		Left Edge	1970	0.764	2.99	23.00	22.80	0.800	/
		Right Edge	1970	0.737	-0.01	23.00	22.80	0.772	/
		Top Edge	1970	0.315	-3.41	23.00	22.80	0.330	/
		Bottom Edge	1970	0.616	-1.95	23.00	22.80	0.645	/
LTE Band 3	20MHz BW, 1RB Offset 0	Front Side	1720	0.961	-3.65	24.00	23.64	1.044	/
		Front Side	1747.5	0.929	0.68	24.00	23.73	0.989	/
		Front Side	1775	1.021	-0.38	24.00	23.91	1.042	/
		Back Side	1720	1.181	1.32	24.00	23.64	1.283	/
		Back Side	1747.5	1.212	-2.23	24.00	23.73	1.290	/
		Back Side	1775	1.323	-2.84	24.00	23.91	1.351	18
		Left Edge	1775	0.697	3.93	24.00	23.91	0.712	/
		Right Edge	1775	0.656	-3.69	24.00	23.91	0.670	/
		Top Edge	1775	0.312	-0.76	24.00	23.91	0.319	/
		Bottom Edge	1775	0.721	-0.65	24.00	23.91	0.736	/
		Front Side	2535	0.754	3.12	24.50	24.35	0.780	/
LTE Band 7	20MHz BW, 1RB Offset 0	Back Side	2510	0.909	2.46	24.50	24.30	0.952	/
		Back Side	2535	0.925	1.46	24.50	24.35	0.958	21
		Back Side	2560	0.815	3.64	24.50	24.03	0.908	/
		Left Edge	2535	0.543	1.94	24.50	24.35	0.562	/
		Right Edge	2535	0.512	-1.46	24.50	24.35	0.530	/
		Front Side	2535	0.512	-1.46	24.50	24.35	0.530	/



		Top Edge	2535	0.219	-2.33	24.50	24.35	0.227	/
		Bottom Edge	2535	0.617	-1.17	24.50	24.35	0.639	/
LTE Band 8	20MHz BW, 12RB Offset 0	Front Side	910	0.221	-1.35	24.00	23.89	0.227	/
		Back Side	910	0.372	-2.67	24.00	23.89	0.382	24
		Left Edge	910	0.191	-2.73	24.00	23.89	0.196	/
		Right Edge	910	0.154	-1.19	24.00	23.89	0.158	/
		Top Edge	910	0.107	-3.71	24.00	23.89	0.110	/
		Bottom Edge	910	0.250	2.95	24.00	23.89	0.256	/
LTE Band 20	20MHz BW, 18RB Offset 0	Front Side	842	0.461	2.62	23.50	23.31	0.482	/
		Back Side	842	0.566	-1.76	23.50	23.31	0.591	27
		Left Edge	842	0.353	3.75	23.50	23.31	0.369	/
		Right Edge	842	0.316	-2.47	23.50	23.31	0.330	/
		Top Edge	842	0.157	3.14	23.50	23.31	0.164	/
		Bottom Edge	842	0.384	3.59	23.50	23.31	0.401	/
LTE Band 28	20MHz BW, 1RB Offset 0	Front Side	713	0.371	-2.57	23.50	23.31	0.388	/
		Back Side	713	0.445	-3.35	23.50	23.31	0.465	30
		Left Edge	713	0.282	-3.90	23.50	23.31	0.295	/
		Right Edge	713	0.253	-0.55	23.50	23.31	0.264	/
		Top Edge	713	0.119	2.78	23.50	23.31	0.124	/
		Bottom Edge	713	0.327	1.33	23.50	23.31	0.342	/
LTE Band 38	20MHz BW, 18RB Offset 0	Front Side	2580	0.101	3.67	24.00	23.54	0.112	/
		Back Side	2580	0.171	-0.16	24.00	23.54	0.190	33
		Left Edge	2580	0.087	-2.50	24.00	23.54	0.097	/
		Right Edge	2580	0.079	3.10	24.00	23.54	0.088	/
		Top Edge	2580	0.033	-1.01	24.00	23.54	0.037	/
		Bottom Edge	2580	0.091	1.89	24.00	23.54	0.101	/
LTE Band 40	20MHz BW, 1RB Offset 0	Front Side	2390	0.765	-3.84	24.50	24.48	0.769	/
		Back Side	2310	0.876	-1.11	24.50	24.32	0.913	/
		Back Side	2350	0.897	-0.53	24.50	24.33	0.933	/
		Back Side	2390	0.933	3.02	24.50	24.48	0.937	36
		Left Edge	2390	0.651	1.28	24.50	24.48	0.654	/
		Right Edge	2390	0.632	-1.03	24.50	24.48	0.635	/
		Top Edge	2390	0.159	2.65	24.50	24.48	0.160	/
		Bottom Edge	2390	0.579	1.63	24.50	24.48	0.582	/
2.4GHz WLAN	802.11b	Front Side	2472	0.088	1.19	13.50	13.48	0.088	/
		Back Side	2472	0.097	-3.60	13.50	13.48	0.097	39
		Left Edge	2472	0.046	3.75	13.50	13.48	0.046	/
		Right Edge	2472	0.033	-3.60	13.50	13.48	0.033	/
		Top Edge	2472	0.021	2.38	13.50	13.48	0.021	/
		Bottom Edge	2472	0.079	3.25	13.50	13.48	0.079	/
5.2GHz WLAN	802.11a	Front Side	5180	0.296	0.99	14.00	13.64	0.322	/
		Back Side	5180	0.374	3.44	14.00	13.64	0.406	42
		Left Edge	5180	0.181	-3.83	14.00	13.64	0.197	/
		Right Edge	5180	0.157	-3.45	14.00	13.64	0.171	/
		Top Edge	5180	0.089	2.55	14.00	13.64	0.097	/
		Bottom Edge	5180	0.241	3.39	14.00	13.64	0.262	/
5.3GHz WLAN	802.11 n-HT20	Front Side	5320	0.313	1.35	13.50	13.37	0.323	/
		Back Side	5320	0.392	0.43	13.50	13.37	0.404	45
		Left Edge	5320	0.252	-3.42	13.50	13.37	0.260	/
		Right Edge	5320	0.217	-1.50	13.50	13.37	0.224	/
		Top Edge	5320	0.102	-0.84	13.50	13.37	0.105	/
		Bottom Edge	5320	0.266	0.24	13.50	13.37	0.274	/
5.8GHz WLAN	802.11 n-HT20	Front Side	5785	0.366	-0.57	11.50	11.02	0.409	/
		Back Side	5785	0.415	0.32	11.50	11.02	0.463	48
		Left Edge	5785	0.289	3.25	11.50	11.02	0.323	/
		Right Edge	5785	0.263	2.79	11.50	11.02	0.294	/
		Top Edge	5785	0.179	-2.09	11.50	11.02	0.200	/
		Bottom Edge	5785	0.324	-1.05	11.50	11.02	0.362	/



Note:

1. The test separation of all above table is 0mm.
2. Two SIM card slot can't work at the same time.
3. When the 10g SAR is $\leq 1.0\text{W/kg}$, testing for low and high channel is optional.



12.4 Simultaneous Multi-band Transmission Evaluation:

Application Simultaneous Transmission information:

Position	Simultaneous State
Head	1.GSM+ 2.4G/5G WLAN
	3.WCDMA+ 2.4G/5G WLAN
	5.LTE+ 2.4G/5G WLAN
Body	1.GSM+ 2.4G/5G WLAN
	3.WCDMA+ 2.4G/5G WLAN
	5.LTE+ 2.4G/5G WLAN

Note:

1. The Bluetooth and WLAN can't simultaneous transmission at the same time.
2. The 2.4GHz WLAN and 5GHz WLAN can't simultaneous transmission at the same time.
3. For simultaneous transmission at head and body exposure position, 2 transmitters simultaneous transmission was the worst state.
4. The reported SAR summation is calculated based on the same configuration and test position.
5. DUT will choose either 2G/3G/4G/5G according to the network signal condition, therefore, 2G/3G/4G/5G will not transmit simultaneously.
6. Per EN IEC/IEEE 62209-1528 section 7.9.3.5, Test reduction based on simultaneous multi-band transmission considerations.

For secondary transmitter (i.e. lower power transmitters), we use the following Formula to evaluate the threshold power for the secondary transmitter that allows it to be excluded from SAR testing:

$$P_{\text{available}} = P_{\text{th},m} * (SAR_{\text{lim.}} - SAR_1) / SAR_{\text{lim.}}$$

where:

$P_{\text{th},m}$ is the threshold exclusion power level taken from Annex B of IEC 62479 for the frequency of the secondary transmitter at the separation distance used in the testing.

If the output power of the secondary transmitter is less than $P_{\text{available}}$, SAR measurement for the secondary transmitter is not necessary.



Simultaneous Mode	Position	SAR ₁	Secondary transmitter Maximum Average Power		Separation distance	P _{available}	Result
		10g(W/Kg)	dBm	mW	(mm)	mW	
GSM + 2.4G WLAN	Head	0.119	14.50	28.184	≤5	18.813	Yes
	Body	0.315			≤5	16.853	Yes
	Limbs	0.606			≤5	33.939	No
WCDMA + 2.4G WLAN	Head	0.096			≤5	19.036	Yes
	Body	0.261			≤5	17.395	Yes
	Limbs	1.775			≤5	22.246	Yes
LTE + 2.4G WLAN	Head	0.109			≤5	18.913	Yes
	Body	0.520			≤5	14.804	Yes
	Limbs	2.111			≤5	18.890	Yes
GSM + 5.2G WLAN	Head	0.119	14.00	25.119	≤5	18.810	Yes
	Body	0.315			≤5	16.850	Yes
	Limbs	0.606			≤5	33.940	No
WCDMA + 5.2G WLAN	Head	0.096			≤5	19.040	Yes
	Body	0.261			≤5	17.390	Yes
	Limbs	1.775			≤5	22.250	Yes
LTE + 5.2G WLAN	Head	0.109			≤5	18.910	Yes
	Body	0.520			≤5	14.800	Yes
	Limbs	2.111			≤5	18.890	Yes
GSM + 5.3G WLAN	Head	0.119	13.50	22.387	≤5	18.810	Yes
	Body	0.315			≤5	16.850	Yes
	Limbs	0.606			≤5	33.940	No
WCDMA + 5.3G WLAN	Head	0.096			≤5	19.040	Yes
	Body	0.261			≤5	17.390	Yes
	Limbs	1.775			≤5	22.250	Yes
LTE + 5.3G WLAN	Head	0.109			≤5	18.910	Yes
	Body	0.520			≤5	14.800	Yes
	Limbs	2.111			≤5	18.890	Yes
GSM + 5.8G WLAN	Head	0.119	11.50	14.125	≤5	18.810	No
	Body	0.315			≤5	16.850	No
	Limbs	0.606			≤5	33.940	No
WCDMA + 5.8G WLAN	Head	0.096			≤5	19.040	No
	Body	0.261			≤5	17.390	No
	Limbs	1.775			≤5	22.250	No
LTE + 5.8G WLAN	Head	0.109			≤5	18.910	No
	Body	0.520			≤5	14.800	No
	Limbs	2.111			≤5	18.890	No

Note:

The "No" is means that SAR measurement for the secondary transmitter is not necessary.

The "Yes" is means that SAR measurement for the secondary transmitter is necessary.



Simultaneous Mode	Position	Mode	Max. 10-g SAR W/Kg	10-g Sum SAR W/Kg
GSM + 2.4GWLAN	Head	GSM	0.119	0.241
		2.4GHz WLAN	0.122	
	Body	GSM	0.315	0.407
		2.4GHz WLAN	0.092	
WCDMA + 2.4GWLAN	Head	WCDMA	0.096	0.218
		2.4GHz WLAN	0.122	
	Body	WCDMA	0.452	0.544
		2.4GHz WLAN	0.092	
	Limbs	WCDMA	1.775	1.872
		2.4GHz WLAN	0.097	
LTE + 2.4GWLAN	Head	LTE	0.108	0.230
		2.4GHz WLAN	0.122	
	Body	LTE	0.520	0.612
		2.4GHz WLAN	0.092	
	Limbs	LTE	2.111	2.208
		2.4GHz WLAN	0.097	
GSM + 5.2GWLAN	Head	GSM	0.119	0.262
		5.2GHz WLAN	0.143	
	Body	GSM	0.315	0.441
		5.2GHz WLAN	0.126	
WCDMA + 5.2GWLAN	Head	WCDMA	0.096	0.239
		5.2GHz WLAN	0.143	
	Body	WCDMA	0.452	0.578
		5.2GHz WLAN	0.126	
	Limbs	WCDMA	1.775	2.181
		5.2GHz WLAN	0.406	
LTE + 5.2GWLAN	Head	LTE	0.108	0.251
		5.2GHz WLAN	0.143	
	Body	LTE	0.520	0.646
		5.2GHz WLAN	0.126	
	Limbs	LTE	2.111	2.517
		5.2GHz WLAN	0.406	
GSM + 5.3GWLAN	Head	GSM	0.119	0.263
		5.3GHz WLAN	0.144	
	Body	GSM	0.315	0.433
		5.3GHz WLAN	0.118	
WCDMA + 5.3GWLAN	Head	WCDMA	0.096	0.240
		5.3GHz WLAN	0.144	
	Body	WCDMA	0.452	0.570
		5.3GHz WLAN	0.118	
	Limbs	WCDMA	1.775	2.179
		5.3GHz WLAN	0.404	
LTE + 5.3GWLAN	Head	LTE	0.108	0.252
		5.3GHz WLAN	0.144	
	Body	LTE	0.520	0.638
		5.3GHz WLAN	0.118	
	Limbs	LTE	2.111	2.515
		5.3GHz WLAN	0.404	
WCDMA + 5.8GWLAN	Body	WCDMA	0.452	0.598
		5.8GHz WLAN	0.146	
LTE + 5.8GWLAN	Body	LTE	0.520	0.666
		5.8GHz WLAN	0.146	

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.



13. Equipment List

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibration	Calibrated Until
750MHz Dipole	MVG	SID750	SN 30/14 DIP0G750-331	2023.07.04	2026.07.03
900MHz Dipole	MVG	SID900	5023-DIP0G900-746	2023.12.20	2026.12.19
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
2450MHzDipole	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 EPOG352	2024.09.18	2025.09.17
Dielectric Probe Kit	MVG	SCLMP	SN 32/14 OCPG67	2024.09.18	2025.09.17
Antenna	MVG	ANTA3	SN 07/13 ZNTA52	N/A	N/A
Phantom1	MVG	SAM	SN 32/14 SAM115	N/A	N/A
Phantom3	MVG	SAM	SN 21/21 ELLI48	N/A	N/A
Phone holder	MVG	N/A	SN 32/14 MSH97	N/A	N/A
Laptop holder	MVG	N/A	SN 32/14 LSH29	N/A	N/A
Attenuator	Agilent	HXT-10-8-SMA	240327017	2025-02-22	2026-02-21
Directional coupler	Xi'an Xingbo	XBOH-OA08-20dB	211123-4-3	2025-02-22	2026-02-21
Network Analyzer	Agilent	E5071C	MY46520378	2024-09-25	2025-09-26
Multi Meter	Keithley	Multi Meter 2000	4050073	2024-09-25	2025-09-26
Signal Generator	Agilent	N5182A	MY50140530	2024-09-25	2025-09-26
Wireless Communication Test Set	R&S	CMW500	156324	2024-09-25	2025-09-26
Power Amplifier	DESAY	ZHL-42W	9638	2024-09-25	2025-09-26
Power Meter	R&S	NRP	100510	2024-09-25	2025-09-26
Power Sensor	R&S	NRP-Z11	101919	2024-09-25	2025-09-26
Power Sensor	Keysight	U2021XA	MY56280002	2024-09-25	2025-09-26
Temperature hygrometer	SuWei	SW-108	N/A	2024.10.15	2025.10.14
Thermograph	Elitech	RC-4	S/N EF7176501537	2024.10.15	2025.10.14



Appendix A. System Validation Plots

System Performance Check Data (750MHz)

Type: Phone measurement (Complete)

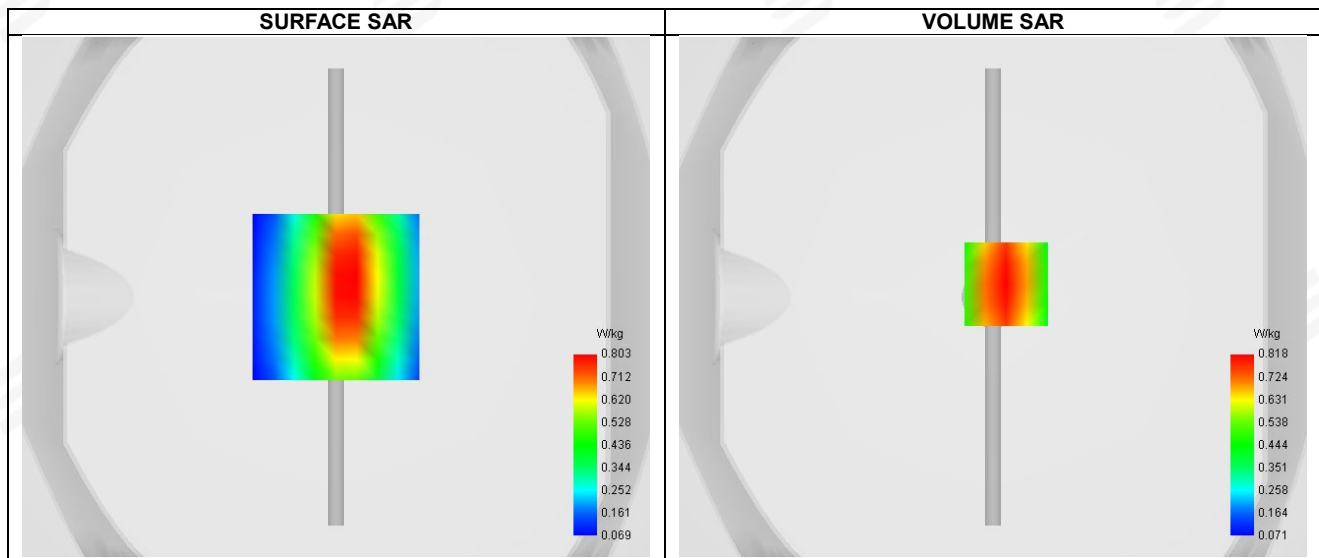
Area scan resolution: dx=8mm, dy=8mm

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

Date of measurement: 2025-08-18

Experimental conditions.

Phantom	Validation plane
Device Position	-
Band	750MHz
Channels	-
Signal	CW
Frequency (MHz)	750MHz
Relative permittivity	42.59
Conductivity (S/m)	0.94
Probe	SN 08/21 EPGO352
ConvF	1.56
Crest factor:	1:1



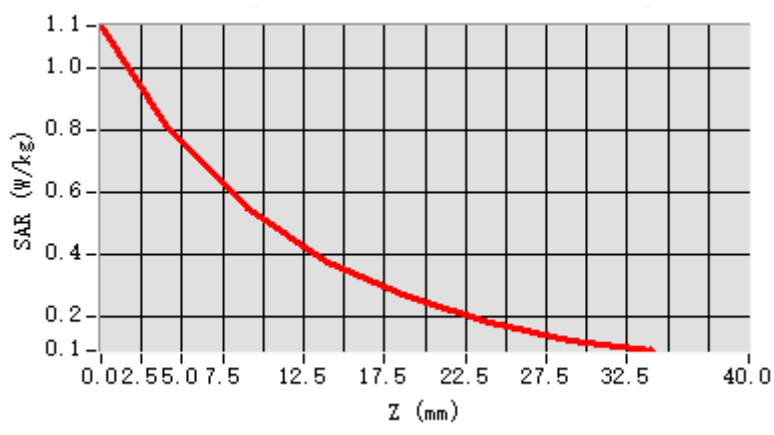
Maximum location: X=5.00, Y=5.00 ; SAR Peak: 1.13 W/kg

D. SAR 1g & 10g

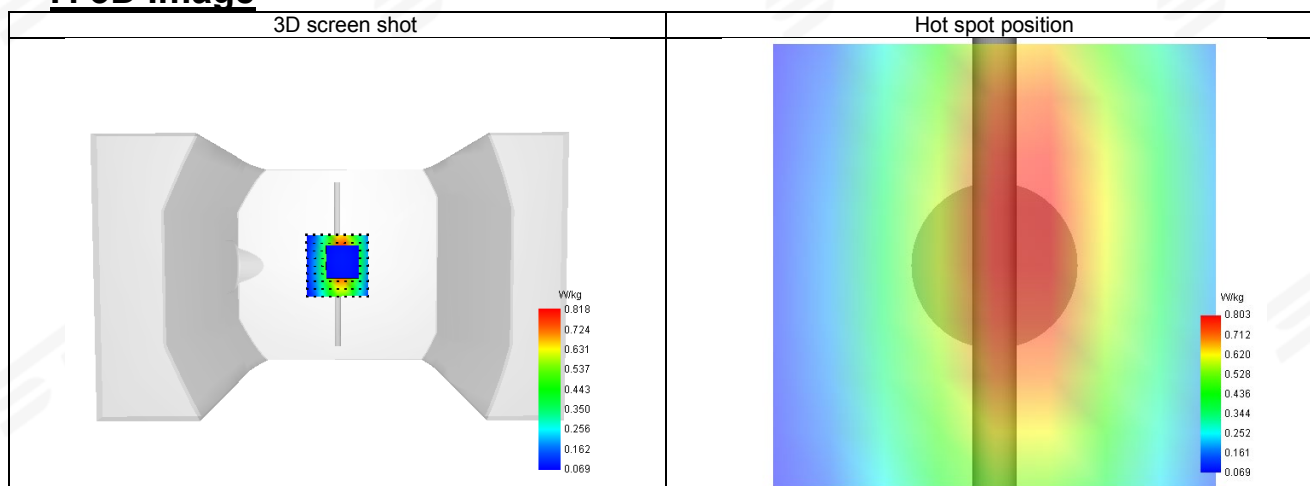
SAR 10g (W/Kg)	0.513
SAR 1g (W/Kg)	0.842
Horizontal validation criteria: minimum distance (mm)	13.547161
Vertical validation criteria: SAR ratio M2/M1 (%)	67.359413

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.135	0.818	0.551	0.377	0.266	0.184	0.127



F. 3D Image



**System Performance Check Data (835MHz)**

Type: Phone measurement (Complete)

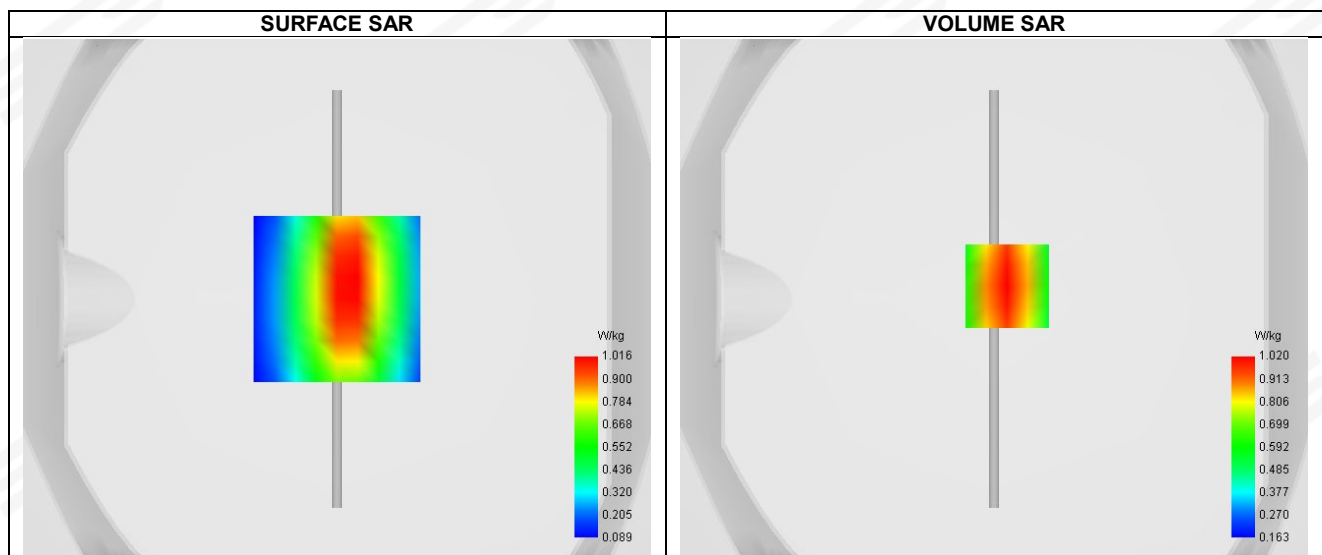
Area scan resolution: dx=8mm, dy=8mm

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

Date of measurement: 2025-08-18

Experimental conditions.

Phantom	Validation plane
Device Position	-
Band	835MHz
Channels	-
Signal	CW
Frequency (MHz)	835MHz
Relative permittivity	40.47
Conductivity (S/m)	0.89
Probe	SN 08/21 EPGO352
ConvF	1.44
Crest factor:	1:1



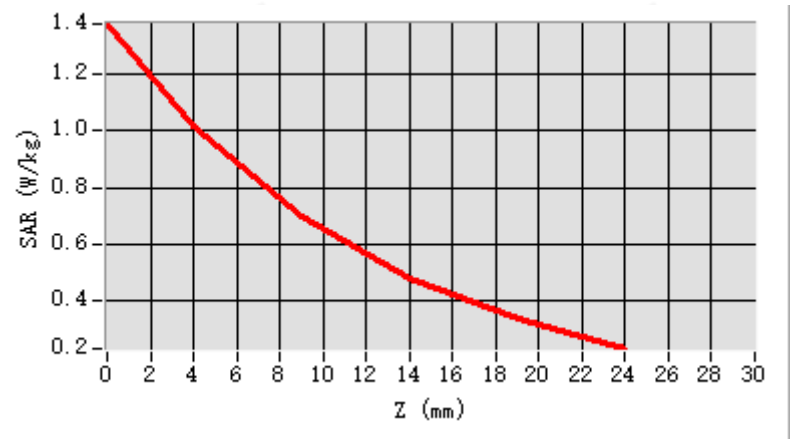
Maximum location: X=5.00, Y=5.00 ; SAR Peak: 1.38 W/kg

D. SAR 1g & 10g

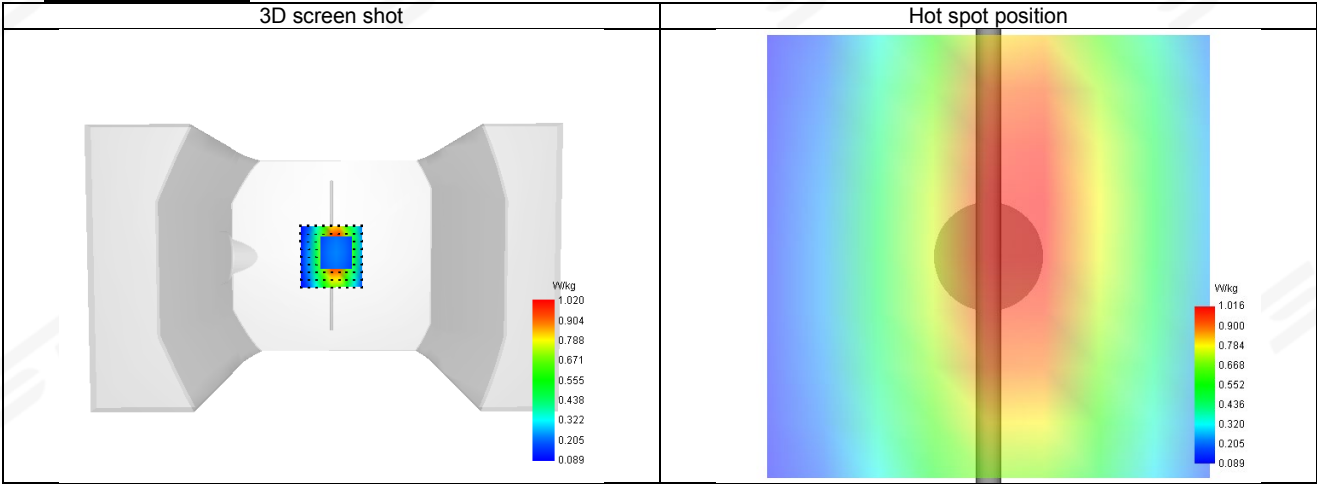
SAR 10g (W/Kg)	0.566
SAR 1g (W/Kg)	0.959
Horizontal validation criteria: minimum distance (mm)	15.134759
Vertical validation criteria: SAR ratio M2/M1 (%)	73.966642

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	1.379	1.020	0.697	0.481	0.337



F. 3D Image



**System Performance Check Data (900MHz)**

Type: Phone measurement (Complete)

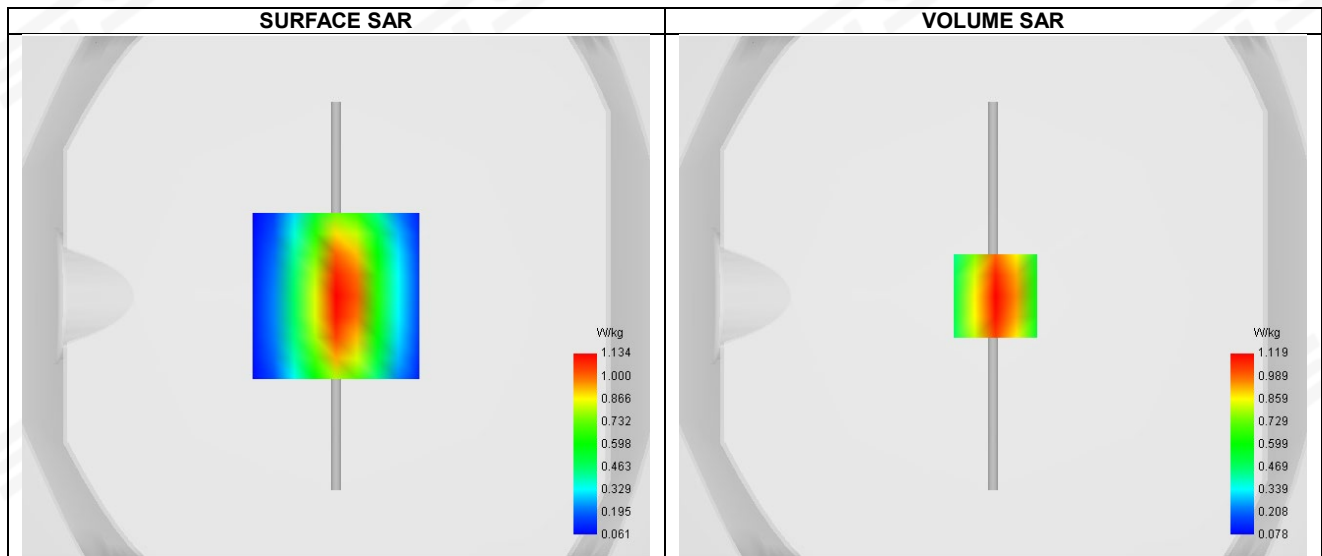
Area scan resolution: dx=8mm, dy=8mm

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

Date of measurement: 2025-08-22

Experimental conditions.

Phantom	Validation plane
Device Position	-
Band	900MHz
Channels	-
Signal	CW
Frequency (MHz)	900MHz
Relative permittivity	42.05
Conductivity (S/m)	0.96
Probe	SN 08/21 EPGO352
ConvF	1.48
Crest factor:	1:1



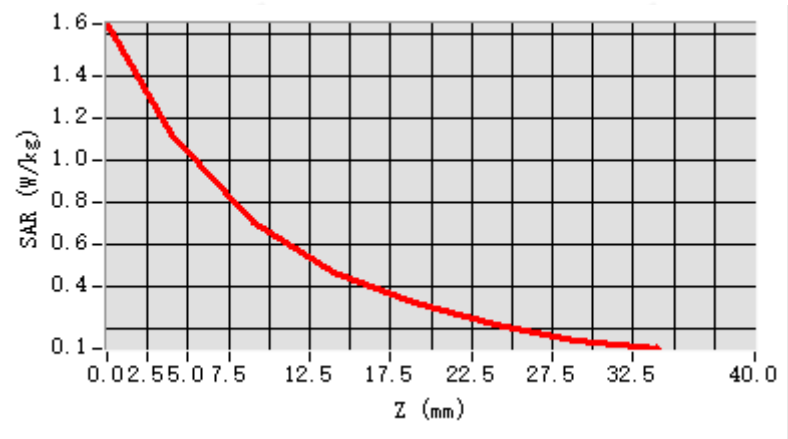
Maximum location: X=1.00, Y=0.00 ; SAR Peak: 1.64 W/kg

D. SAR 1g & 10g

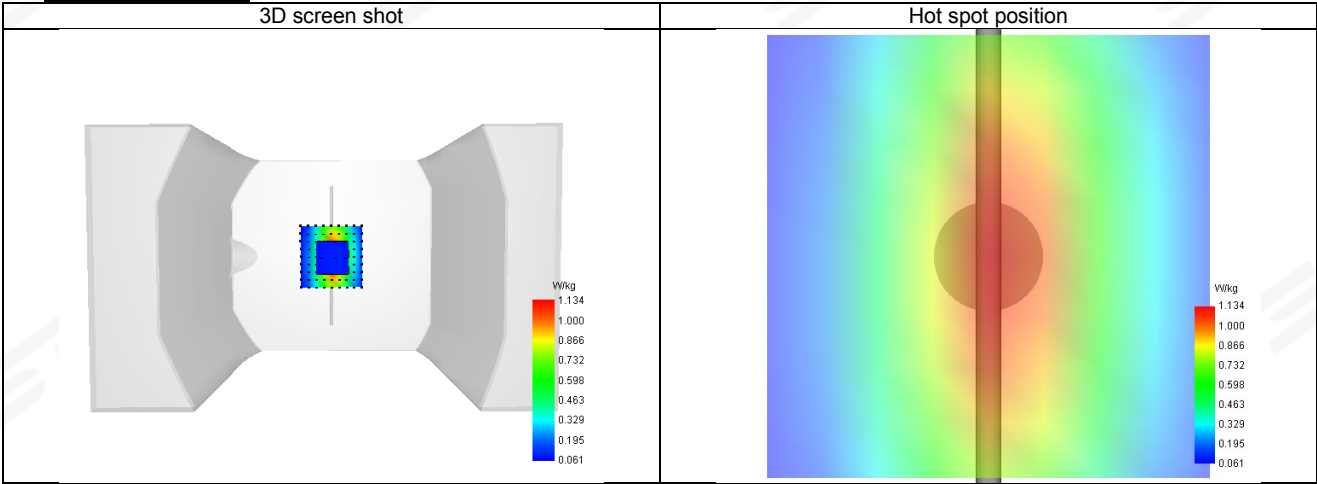
SAR 10g (W/Kg)	0.671
SAR 1g (W/Kg)	1.086
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	63.378162

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.645	1.119	0.709	0.465	0.326	0.218	0.145



F. 3D Image



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

Type: Phone measurement (Complete)

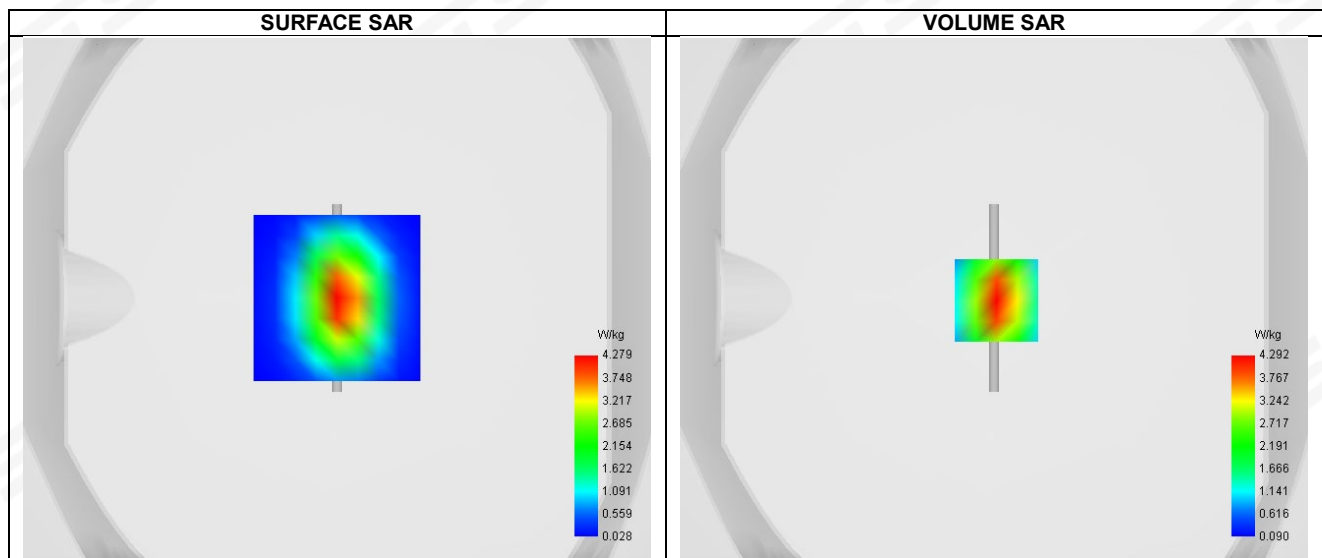
Area scan resolution: dx=8mm, dy=8mm

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

Date of measurement: 2025-08-29

Experimental conditions.

Phantom	Validation plane
Device Position	-
Band	1800MHz
Channels	-
Signal	CW
Frequency (MHz)	1800MHz
Relative permittivity	40.50
Conductivity (S/m)	1.38
Probe	SN 08/21 EPG0352
ConvF	1.58
Crest factor:	1:1



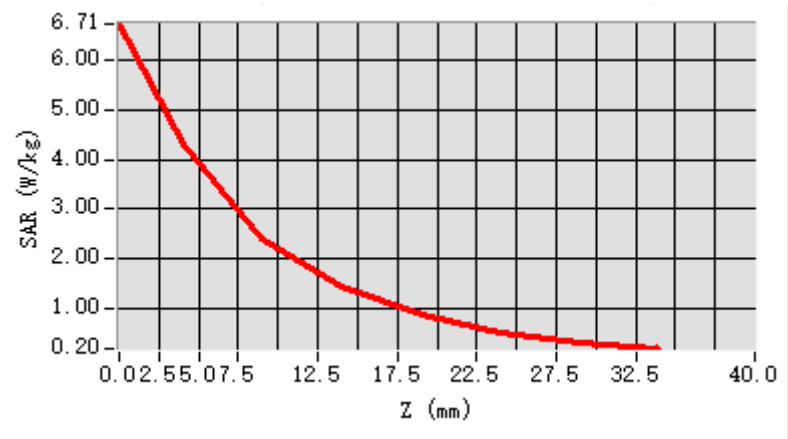
Maximum location: X=1.00, Y=-1.00 ; SAR Peak: 6.66 W/kg

D. SAR 1g & 10g

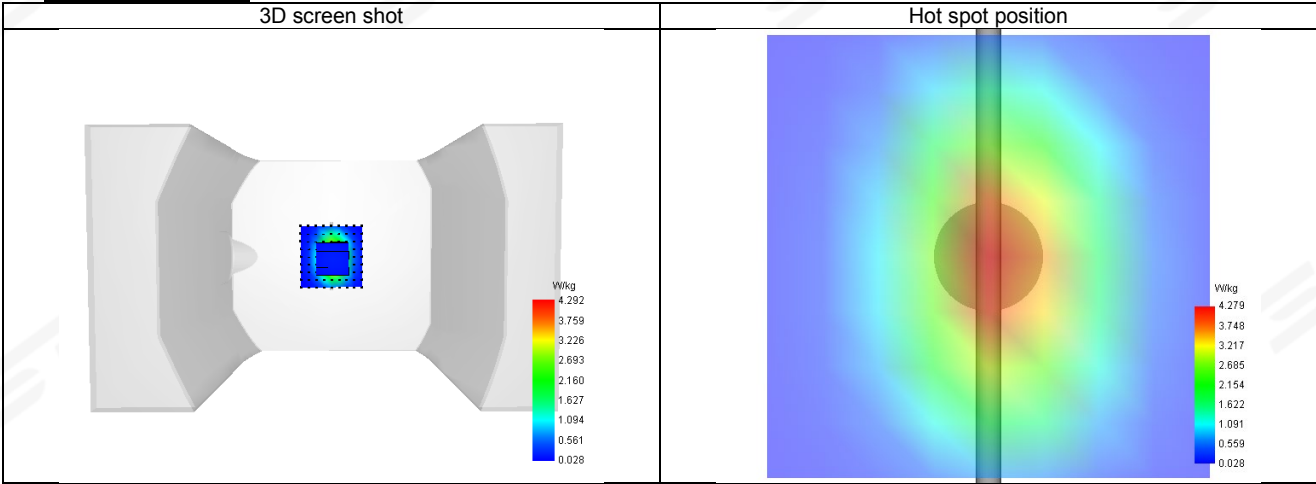
SAR 10g (W/Kg)	1.909
SAR 1g (W/Kg)	3.805
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	56.649833

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	6.715	4.292	2.432	1.431	0.869	0.513	0.303



F. 3D Image



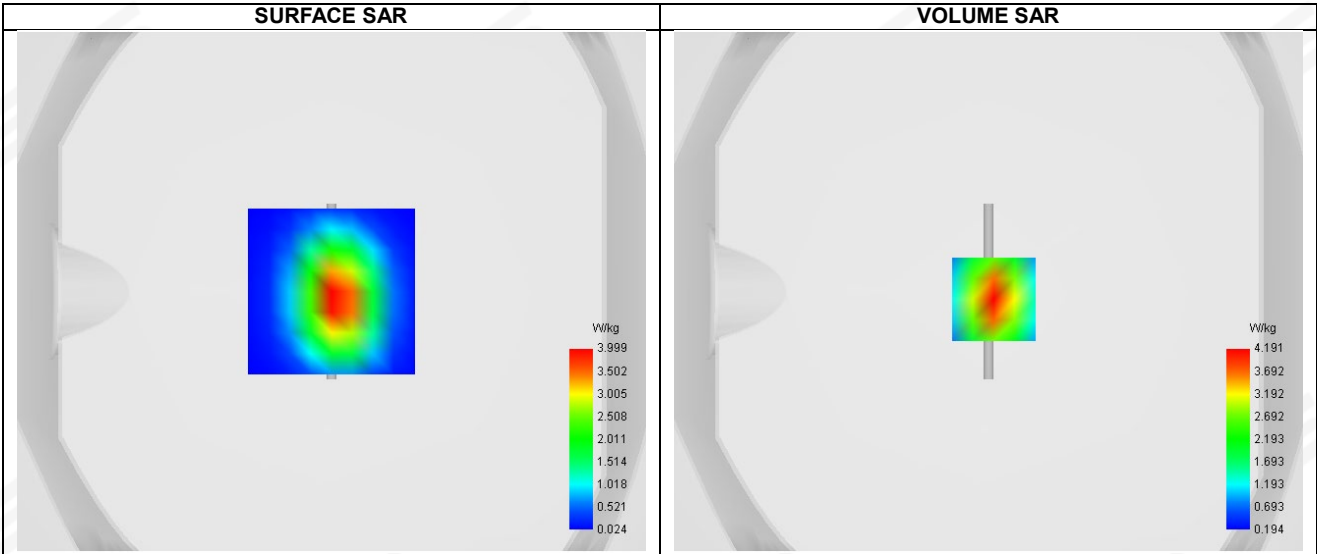


System Performance Check Data (1900MHz)

Type: Phone measurement (Complete)
Area scan resolution: dx=8mm, dy=8mm
Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm
Date of measurement: 2025-08-26

Experimental conditions.

Device Position	Validation plane
Band	1900MHz
Channels	-
Signal	CW
Frequency (MHz)	1900
Relative permittivity	40.92
Conductivity (S/m)	1.39
Probe	SN 08/21 EPGO352
ConvF	1.72
Crest factor:	1:1



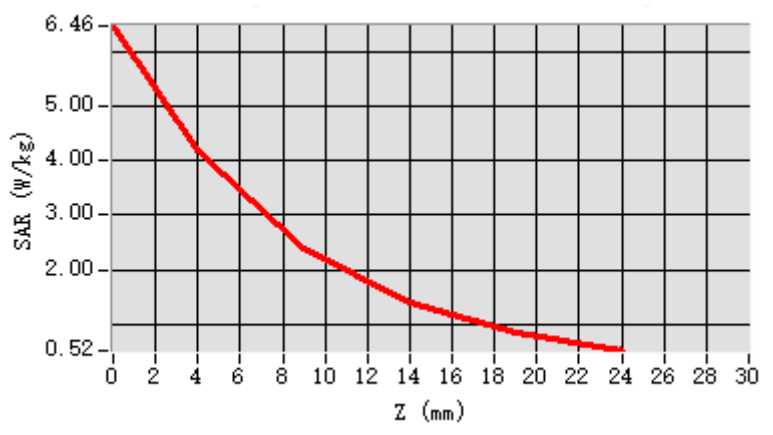
Maximum location: X=2.00, Y=-3.00 ; SAR Peak: 6.46 W/kg

D. SAR 1g & 10g

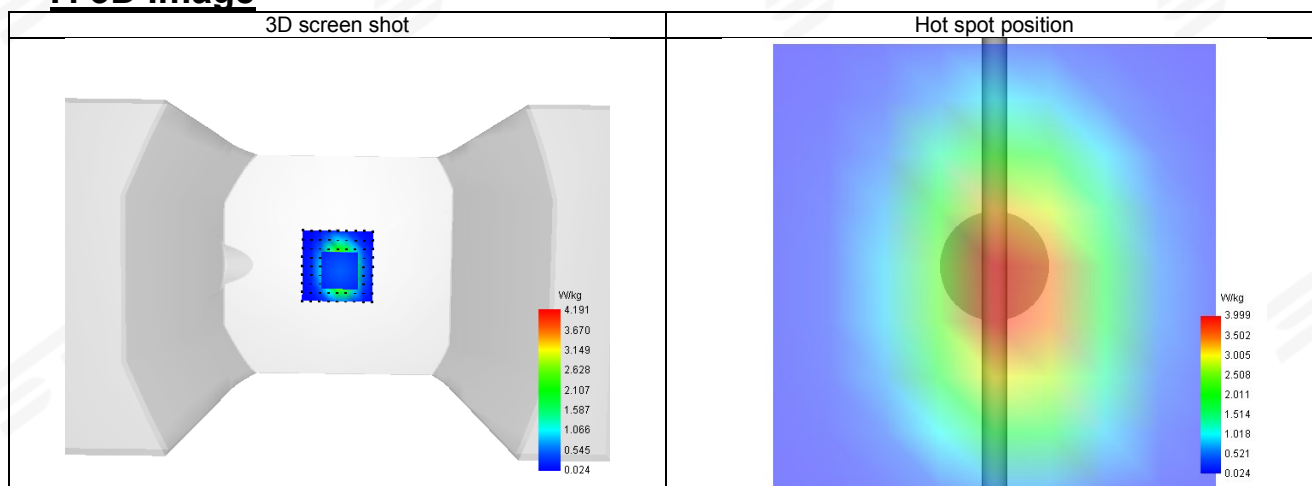
SAR 10g (W/Kg)	2.008
SAR 1g (W/Kg)	3.875
Horizontal validation criteria: minimum distance (mm)	8.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	57.110405

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	6.464	4.191	2.392	1.387	0.848



F. 3D Image





System Performance Check Data (2300MHz)

Type: Phone measurement (Complete)

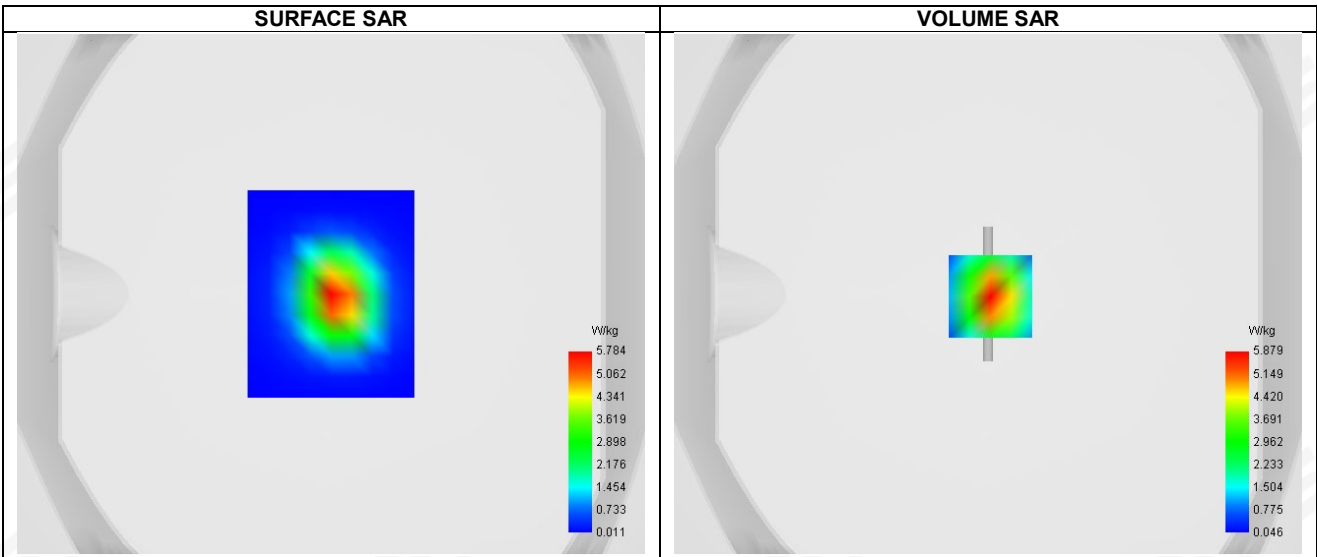
Area scan resolution: dx=8mm, dy=8mm

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

Date of measurement: 2025-08-23

Experimental conditions.

Device Position	Validation plane
Band	2300 MHz
Channels	-
Signal	CW
Frequency (MHz)	2300
Relative permittivity	40.22
Conductivity (S/m)	1.74
Probe	SN 08/21 EPG0352
ConvF	1.79
Crest factor:	1:1



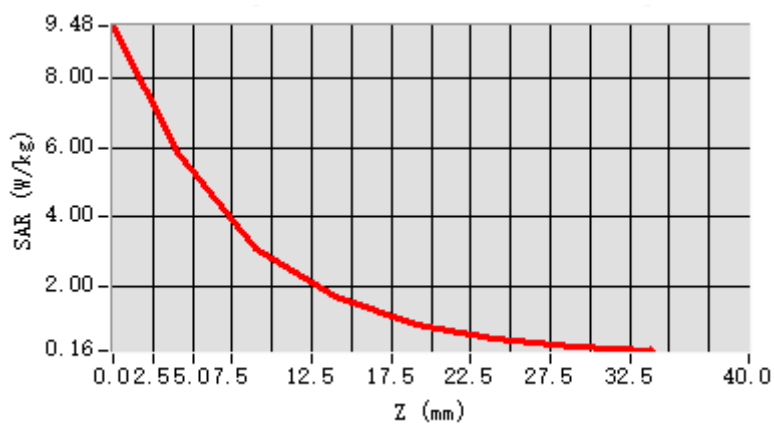
Maximum location: X=1.00, Y=-1.00 ; SAR Peak: 9.49 W/kg

D. SAR 1g & 10g

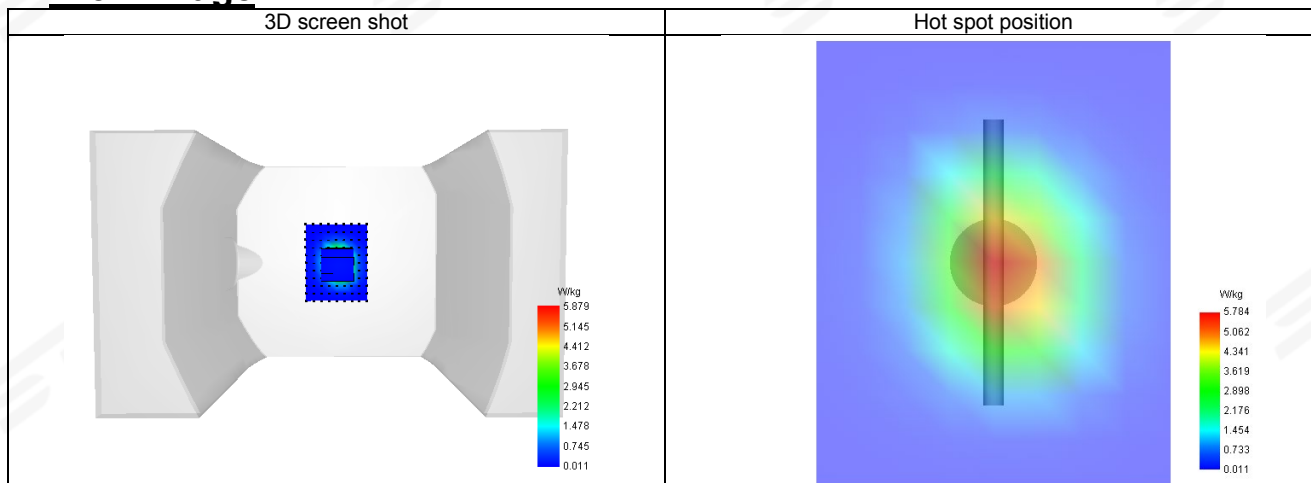
SAR 10g (W/Kg)	2.200
SAR 1g (W/Kg)	4.823
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	52.967234

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	9.483	5.879	3.114	1.695	0.917	0.499	0.280



F. 3D Image



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

Type: Phone measurement (Complete)

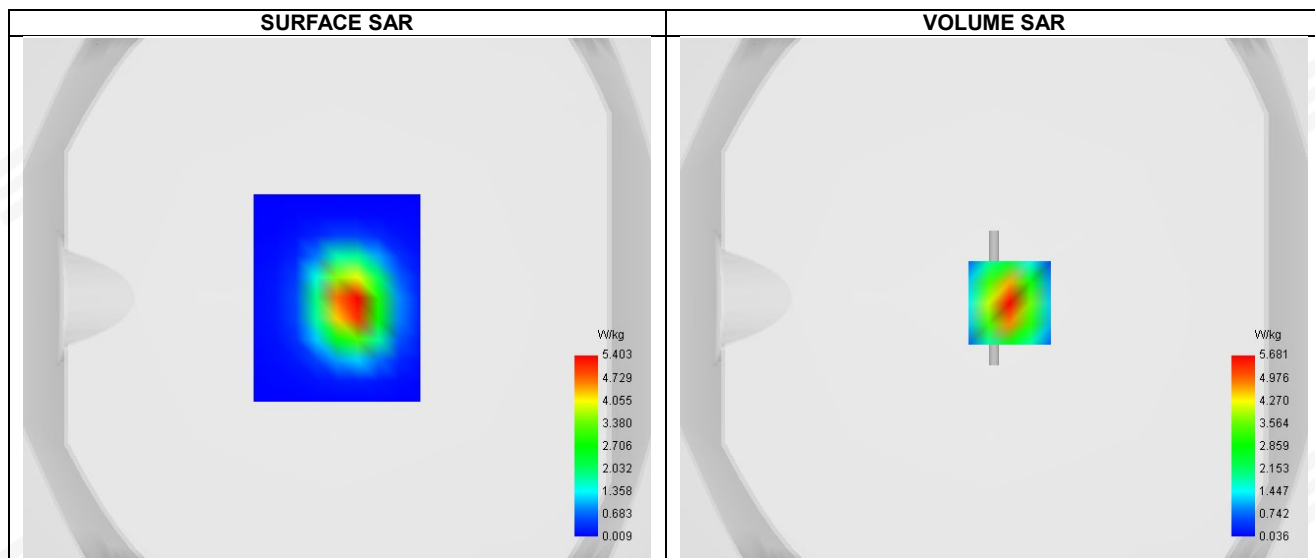
Area scan resolution: dx=8mm, dy=8mm

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

Date of measurement: 2025-08-23

Experimental conditions.

Device Position	Validation plane
Band	2450 MHz
Channels	-
Signal	CW
Frequency (MHz)	2450
Relative permittivity	39.81
Conductivity (S/m)	1.79
Probe	SN 08/21 EPG0352
ConvF	1.80
Crest factor:	1:1



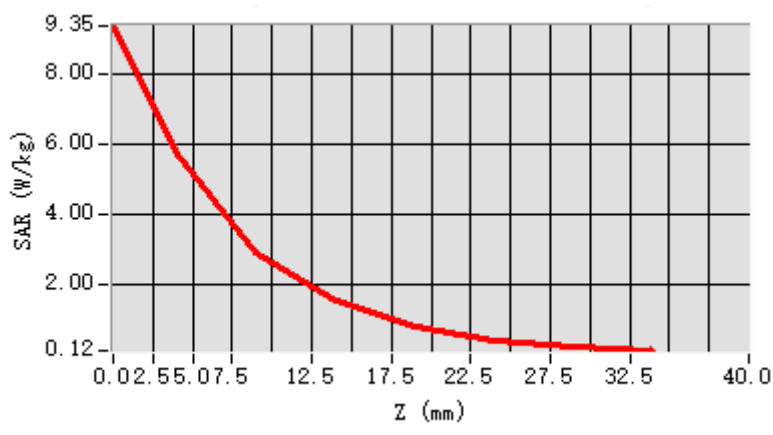
Maximum location: X=6.00, Y=-2.00 ; SAR Peak: 9.26 W/kg

D. SAR 1g & 10g

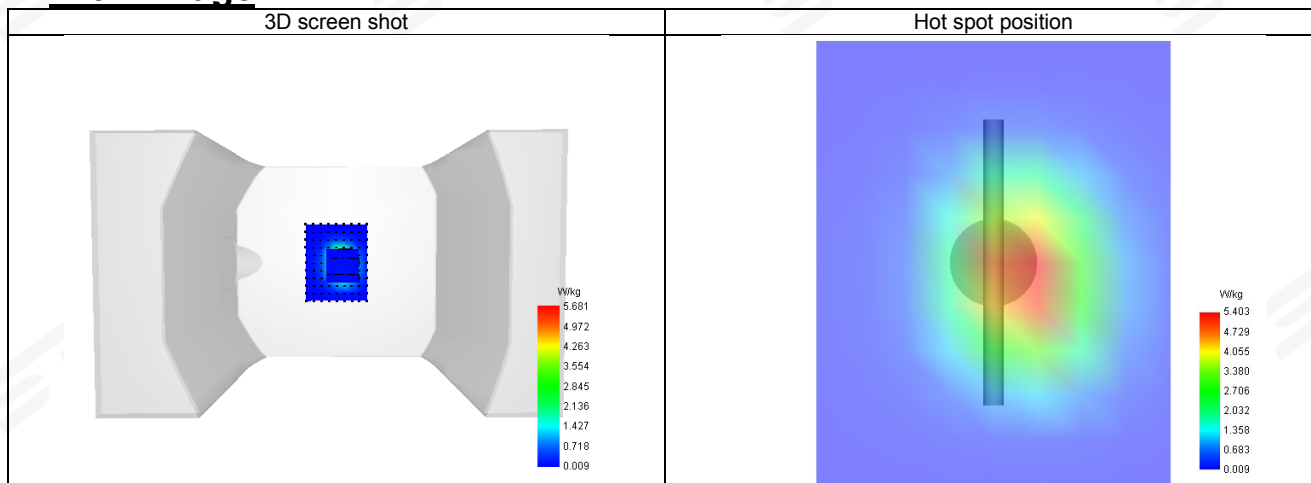
SAR 10g (W/Kg)	2.242
SAR 1g (W/Kg)	5.360
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	51.297293

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	9.353	5.681	2.914	1.530	0.803	0.429	0.226



F. 3D Image



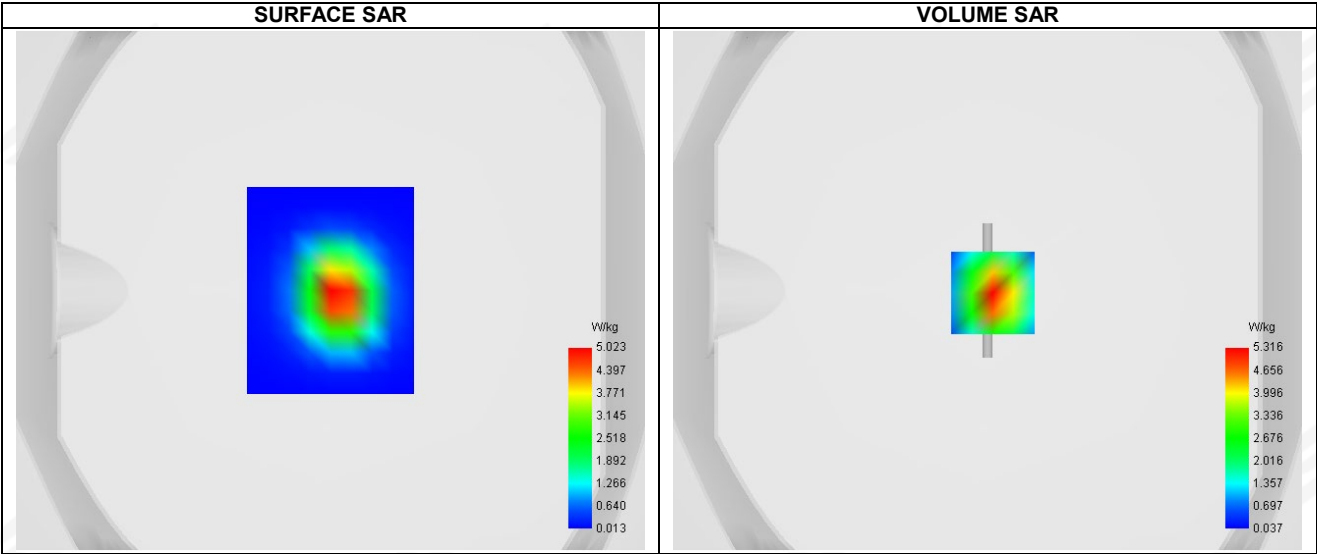


System Performance Check Data (2600MHz)

Type: Phone measurement (Complete)
Area scan resolution: dx=8mm, dy=8mm
Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm
Date of measurement: 2025-08-26

Experimental conditions.

Device Position	Validation plane
Band	2600 MHz
Channels	-
Signal	CW
Frequency (MHz)	2600
Relative permittivity	39.77
Conductivity (S/m)	2.01
Probe	SN 08/21 EPGO352
ConvF	1.74
Crest factor:	1:1



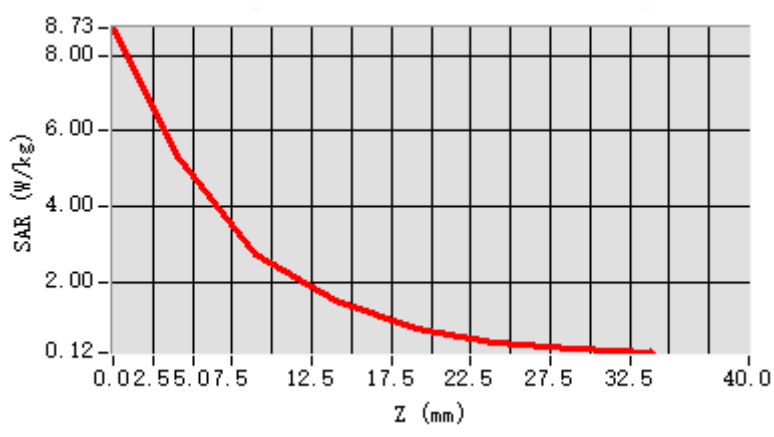
Maximum location: X=2.00, Y=-1.00 ; SAR Peak: 8.77 W/kg

D. SAR 1g & 10g

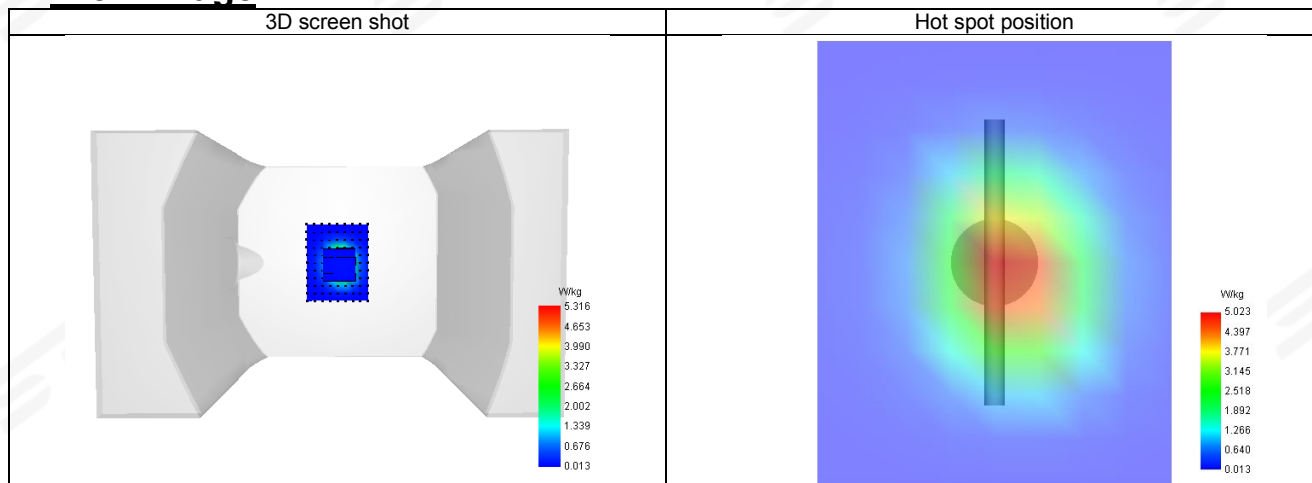
SAR 10g (W/Kg)	2.233
SAR 1g (W/Kg)	5.360
Horizontal validation criteria: minimum distance (mm)	11.313708
Vertical validation criteria: SAR ratio M2/M1 (%)	51.600524

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	8.735	5.316	2.743	1.480	0.784	0.415	0.220



F. 3D Image



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

Type: Phone measurement (Complete)

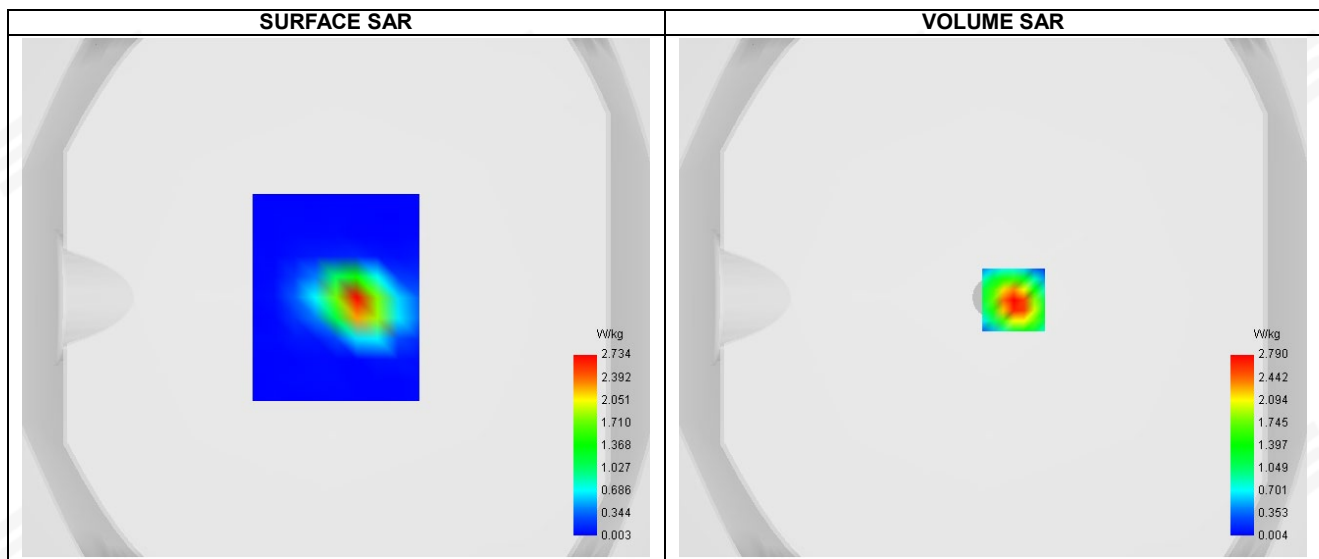
Area scan resolution: dx=8mm, dy=8mm

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

Date of measurement: 2025-08-24

Experimental conditions.

Device Position	Validation plane
Band	5200 MHz
Channels	-
Signal	CW
Frequency (MHz)	5200
Relative permittivity	36.07
Conductivity (S/m)	4.68
Probe	SN 08/21 EPG0352
ConvF	1.33
Crest factor:	1:1



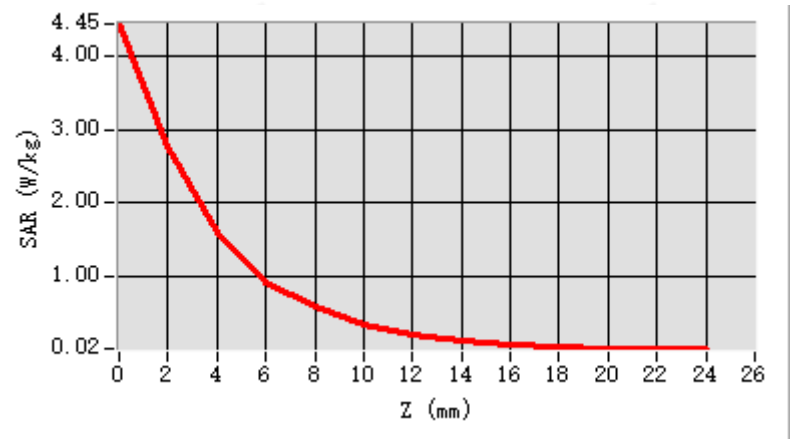
Maximum location: X=8.00, Y=-1.00 ; SAR Peak: 4.70 W/kg

D. SAR 1g & 10g

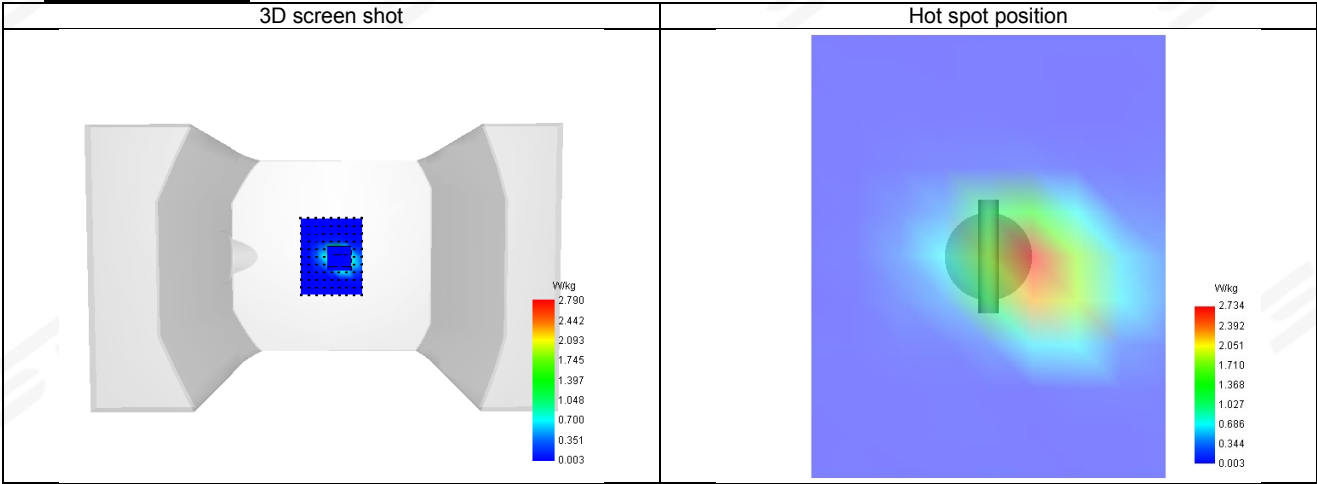
SAR 10g (W/Kg)	0.528
SAR 1g (W/Kg)	1.521
Horizontal validation criteria: minimum distance (mm)	8.944272
Vertical validation criteria: SAR ratio M2/M1 (%)	57.170362

E. Z Axis Scan

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00
SAR (W/Kg)	4.445	2.790	1.595	0.909	0.577	0.344	0.205	0.122	0.073	0.043	0.026	0.015



F. 3D Image



**System Performance Check Data (5400MHz)**

Type: Phone measurement (Complete)

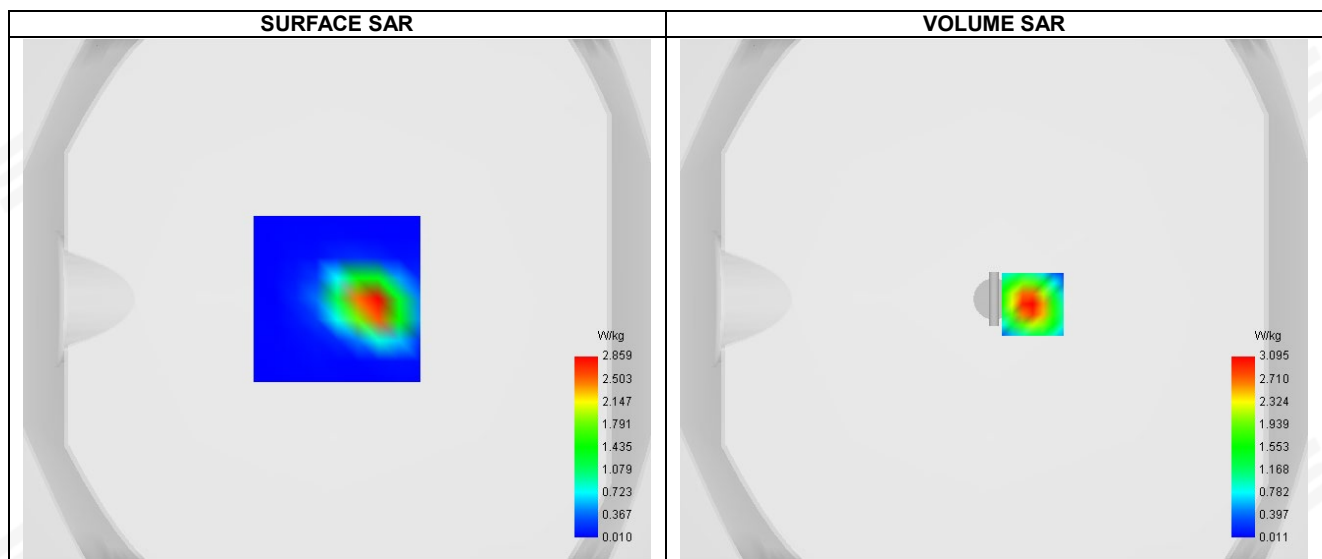
Area scan resolution: dx=8mm, dy=8mm

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

Date of measurement: 2025-08-24

Experimental conditions.

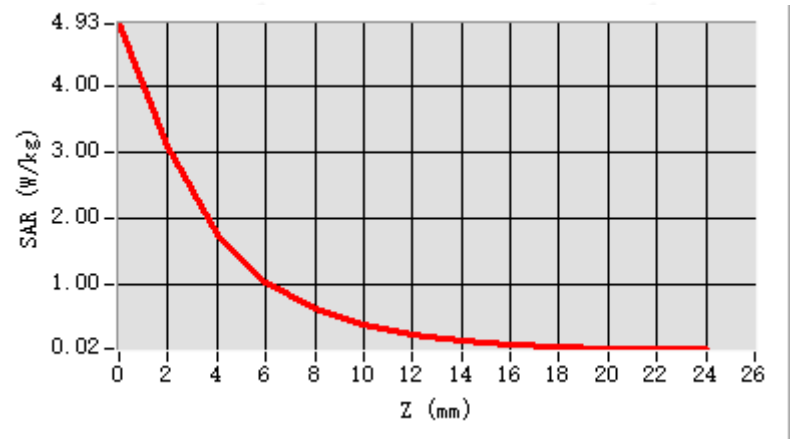
Device Position	Validation plane
Band	5400 MHz
Channels	-
Signal	CW
Frequency (MHz)	5400
Relative permittivity	36.49
Conductivity (S/m)	4.88
Probe	SN 08/21 EPG0352
ConvF	1.33
Crest factor:	1:1

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

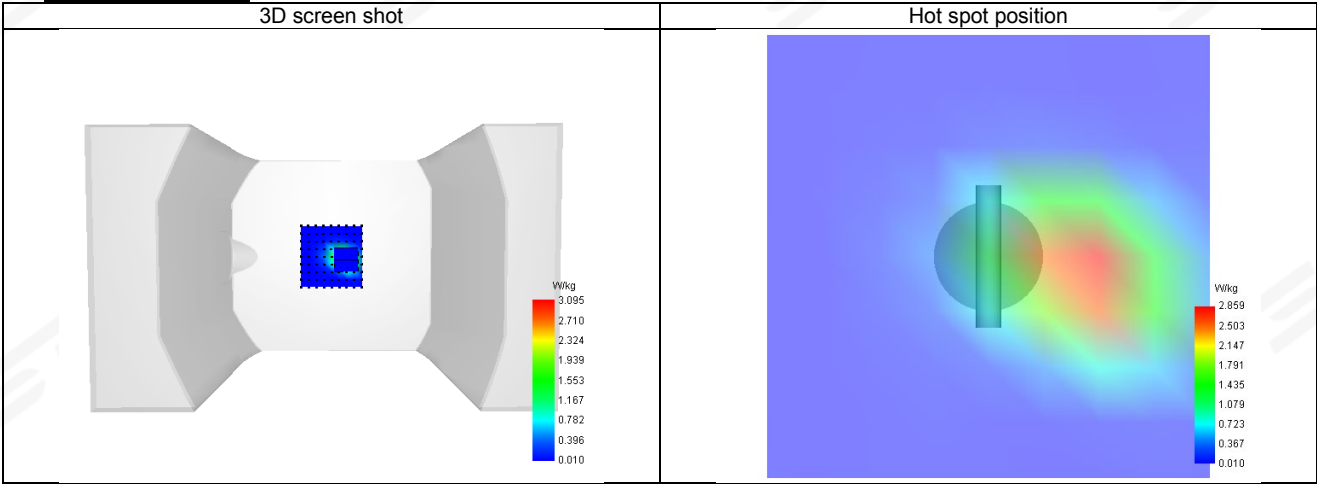
SAR 10g (W/Kg)	0.578
SAR 1g (W/Kg)	1.623
Horizontal validation criteria: minimum distance (mm)	8.944272
Vertical validation criteria: SAR ratio M2/M1 (%)	56.573258

E. Z Axis Scan

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00
SAR (W/Kg)	4.931	3.095	1.751	1.015	0.632	0.375	0.223	0.132	0.078	0.047	0.028	0.016



F. 3D Image



System Performance Check Data (5800MHz)

Type: Phone measurement (Complete)

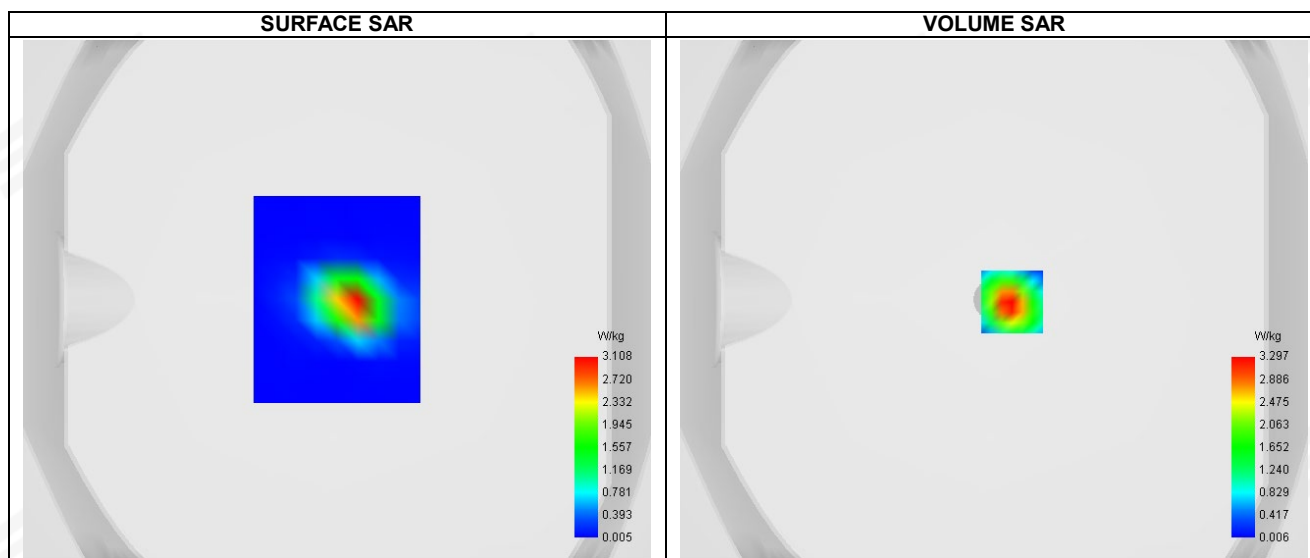
Area scan resolution: dx=8mm, dy=8mm

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

Date of measurement: 2025-08-21

Experimental conditions.

Device Position	Validation plane
Band	5800 MHz
Channels	-
Signal	CW
Frequency (MHz)	5800
Relative permittivity	35.76
Conductivity (S/m)	5.25
Probe	SN 08/21 EPG0352
ConvF	1.35
Crest factor:	1:1



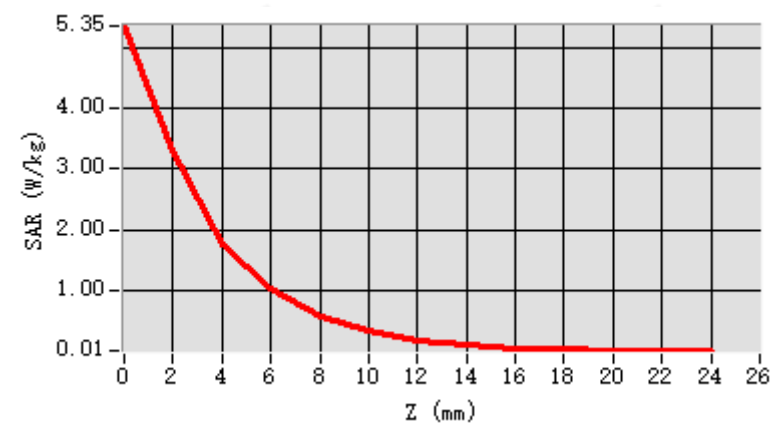
Maximum location: X=7.00, Y=-1.00 ; SAR Peak: 5.95 W/kg

D. SAR 1g & 10g

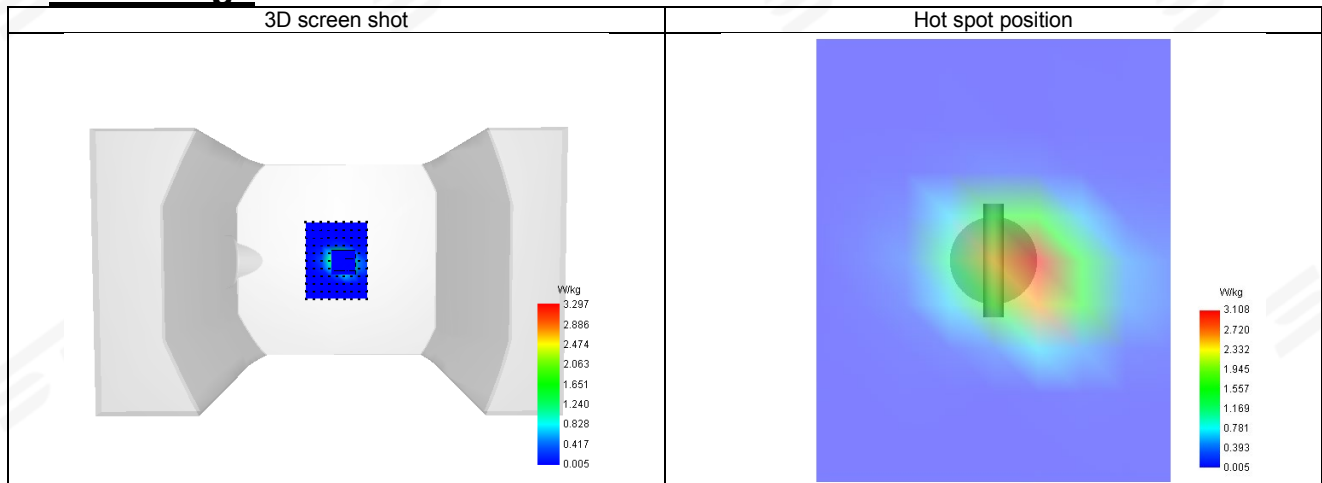
SAR 10g (W/Kg)	0.618
SAR 1g (W/Kg)	1.791
Horizontal validation criteria: minimum distance (mm)	8.944272
Vertical validation criteria: SAR ratio M2/M1 (%)	52.917525

E. Z Axis Scan

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00
SAR (W/Kg)	5.350	3.297	1.745	1.028	0.580	0.327	0.185	0.104	0.059	0.033	0.019	0.011



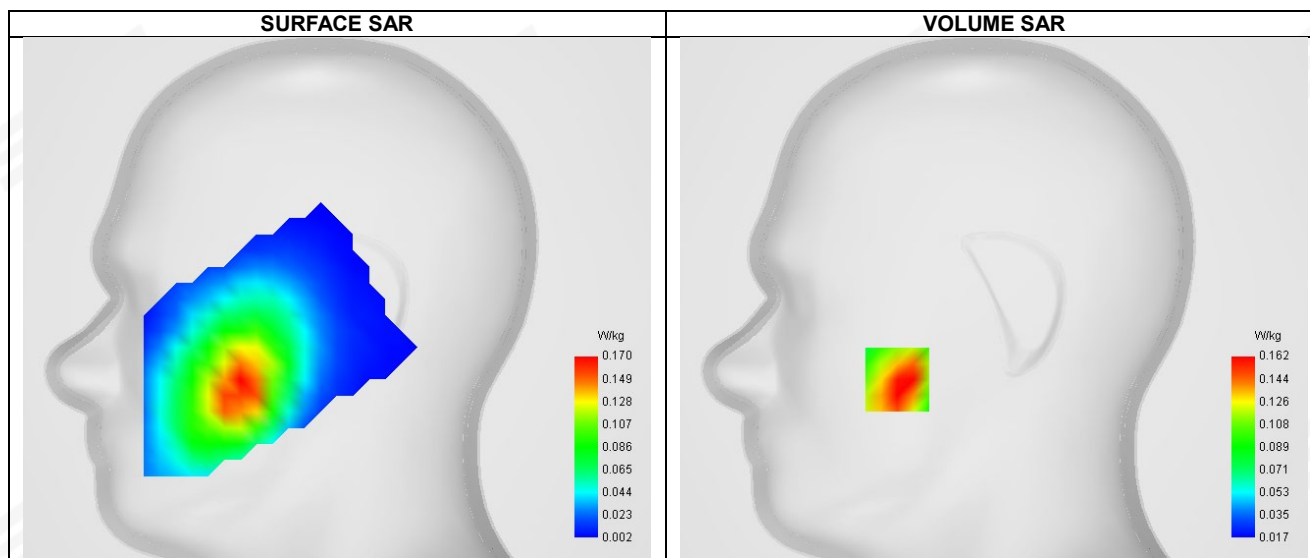
F. 3D Image



Appendix B. SAR Test Plots

Plot 1: DUT: Smart Phone; EUT Model: RugKing 3 Pro

Test Date	2025-08-22
ConvF	1.48
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm,Complete
Phantom	Head
Device Position	Right Cheek
Band	GSM900
Signal	TDMA (Crest factor: 8.32)
Frequency	897.4



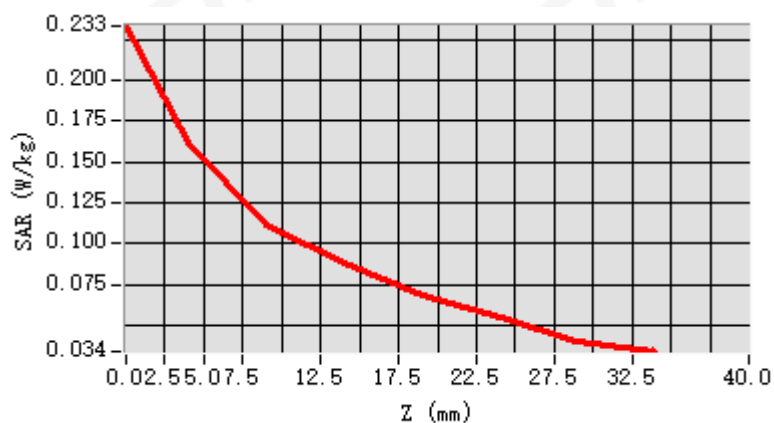
Maximum location: X=-48.00, Y=-40.00 ; SAR Peak: 0.22 W/kg

D. SAR 1g & 10g

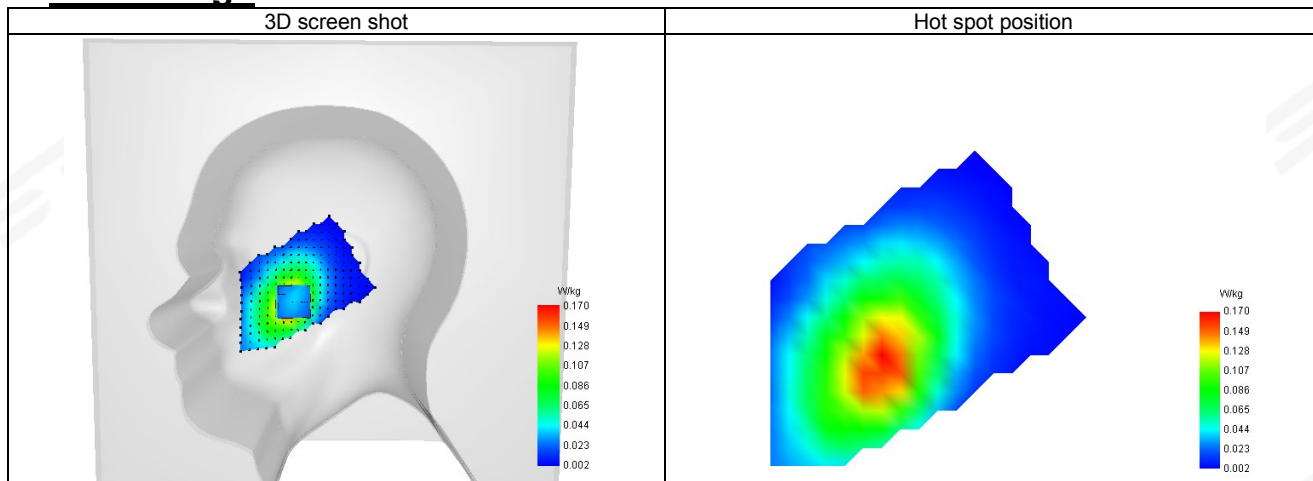
SAR 10g (W/Kg)	0.107
SAR 1g (W/Kg)	0.157
Horizontal validation criteria: minimum distance (mm)	28.844410
Vertical validation criteria: SAR ratio M2/M1 (%)	77.478573

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.233	0.162	0.112	0.088	0.069	0.055	0.041

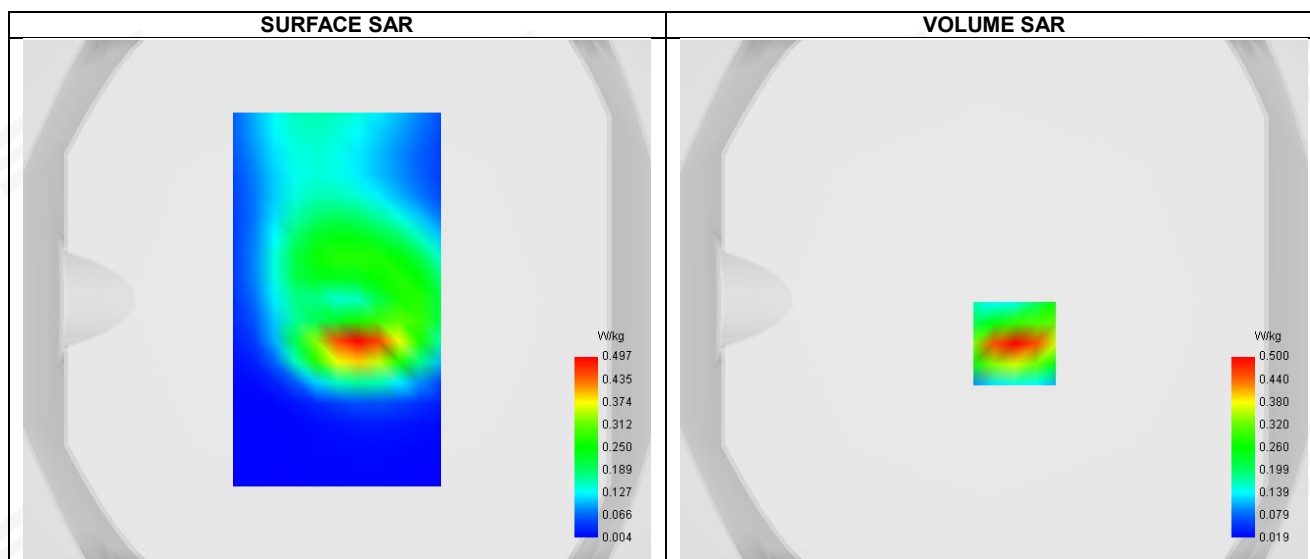


F. 3D Image



Plot 2: DUT: Smart Phone; EUT Model: RugKing 3 Pro

Test Date	2025-08-22
ConvF	1.48
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm,Complete
Phantom	Body
Device Position	Back Side
Band	GPRS900
Signal	Duty Cycle: 2.00 (Crest factor: 2.0)
Frequency	914.8



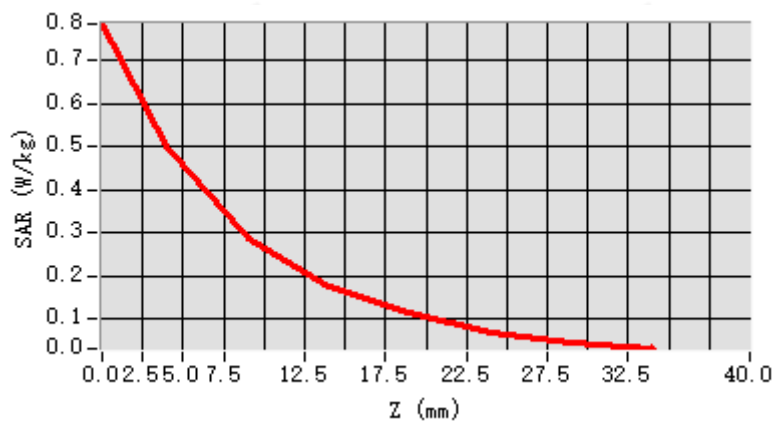
Maximum location: X=8.00, Y=-17.00 ; SAR Peak: 0.78 W/kg

D. SAR 1g & 10g

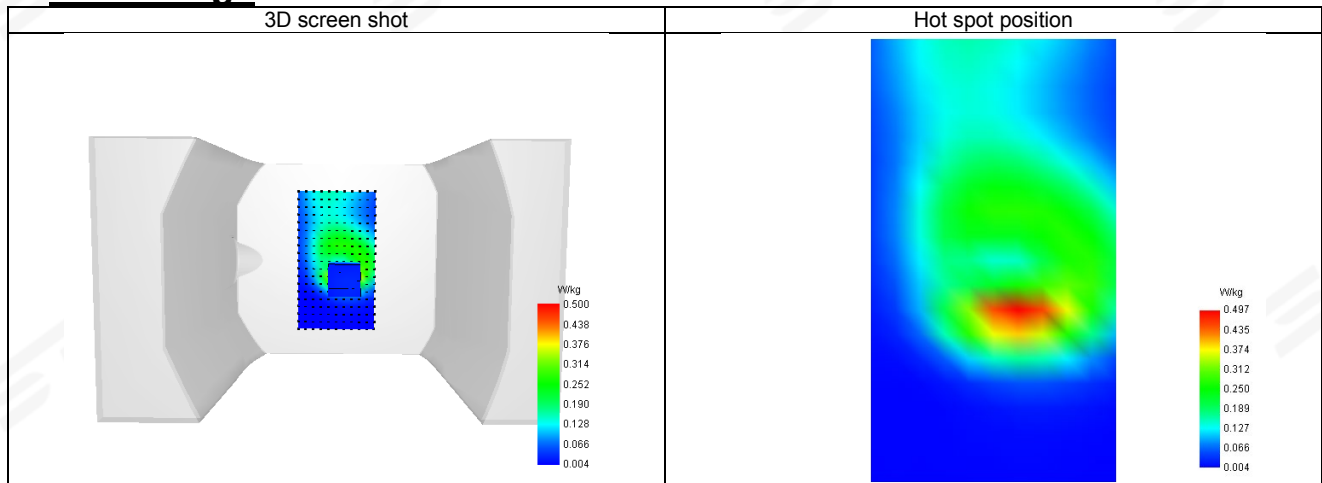
SAR 10g (W/Kg)	0.241
SAR 1g (W/Kg)	0.463
Horizontal validation criteria: minimum distance (mm)	11.313708
Vertical validation criteria: SAR ratio M2/M1 (%)	57.621409

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.784	0.500	0.288	0.174	0.113	0.070	0.043



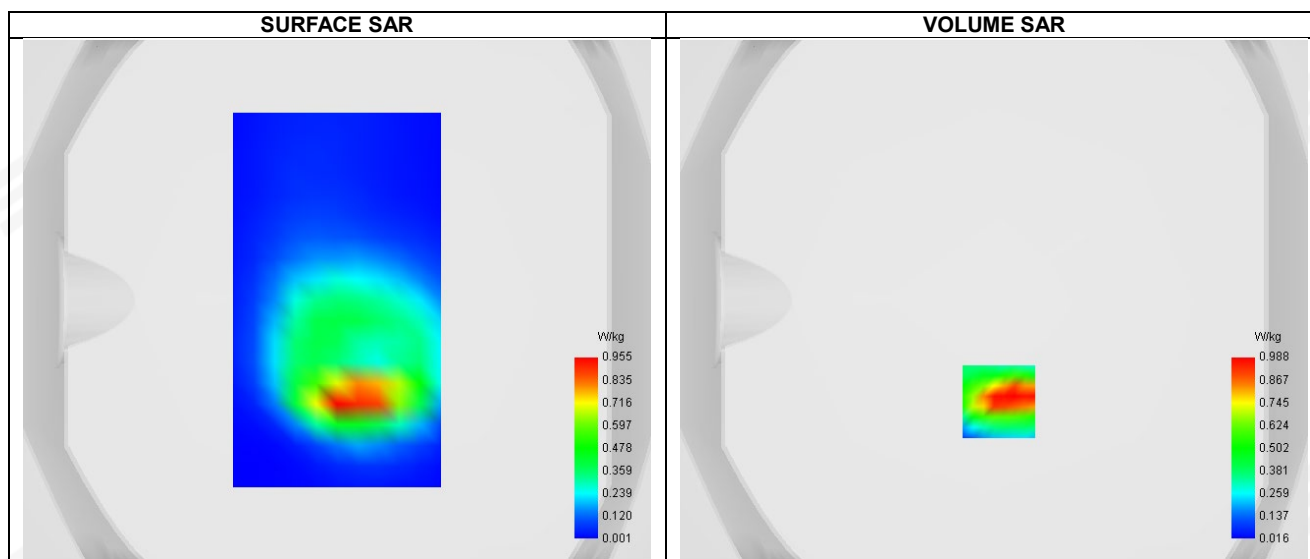
F. 3D Image





Plot 3: DUT: Smart Phone; EUT Model: RugKing 3 Pro

Test Date	2025-08-22
ConvF	1.48
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm,Complete
Phantom	Body
Device Position	Back Side
Band	GPRS900
Signal	Duty Cycle: 2.00 (Crest factor: 2.0)
Frequency	914.8



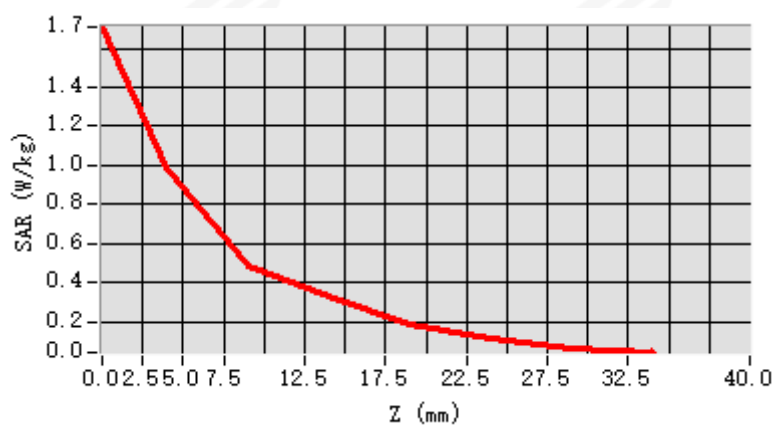
Maximum location: X=2.00, Y=-39.00 ; SAR Peak: 1.69 W/kg

D. SAR 1g & 10g

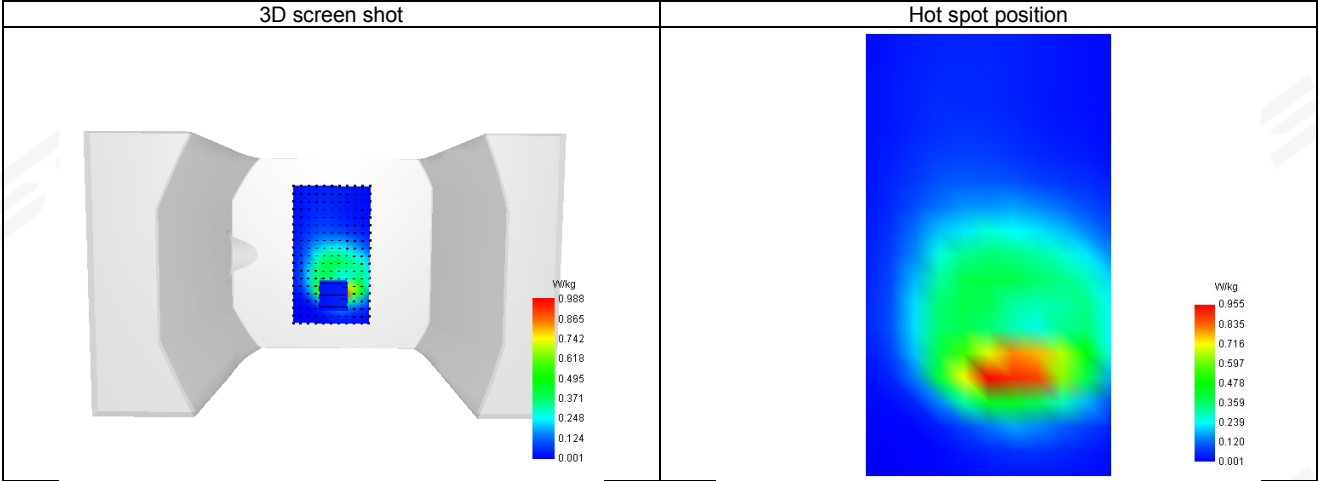
SAR 10g (W/Kg)	0.407
SAR 1g (W/Kg)	0.896
Horizontal validation criteria: minimum distance (mm)	11.313708
Vertical validation criteria: SAR ratio M2/M1 (%)	54.145588

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.709	0.988	0.486	0.328	0.186	0.111	0.068

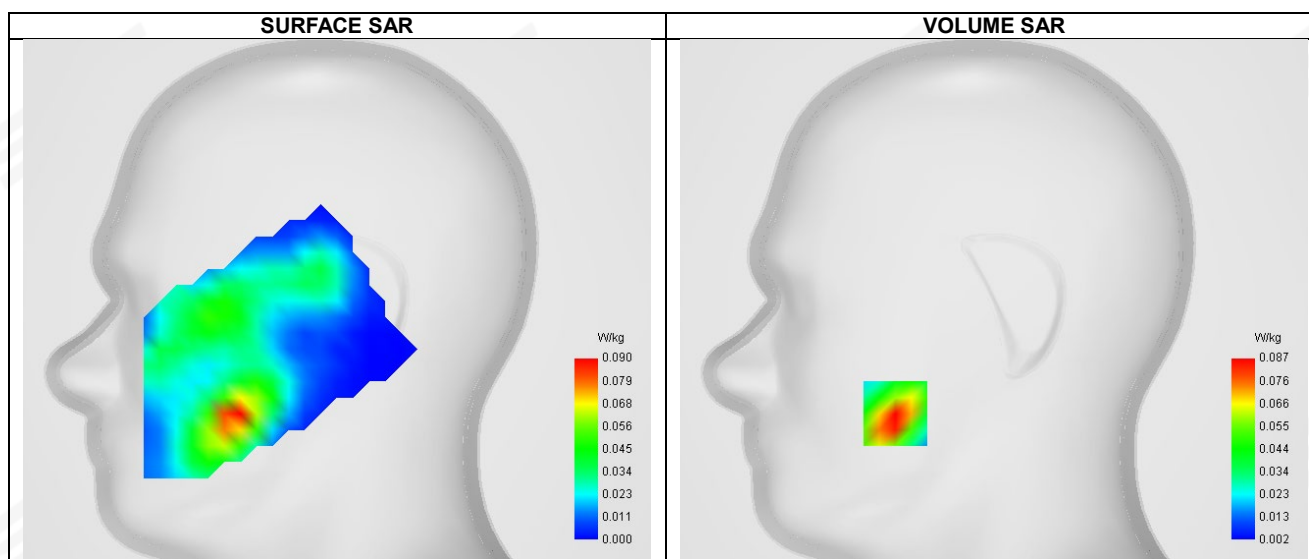


F. 3D Image



Plot 4: DUT: Smart Phone; EUT Model: RugKing 3 Pro

Test Date	2025-08-29
ConvF	1.58
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm,Complete
Phantom	Head
Device Position	Right Cheek
Band	GSM1800
Signal	TDMA (Crest factor: 8.32)
Frequency	1710.2



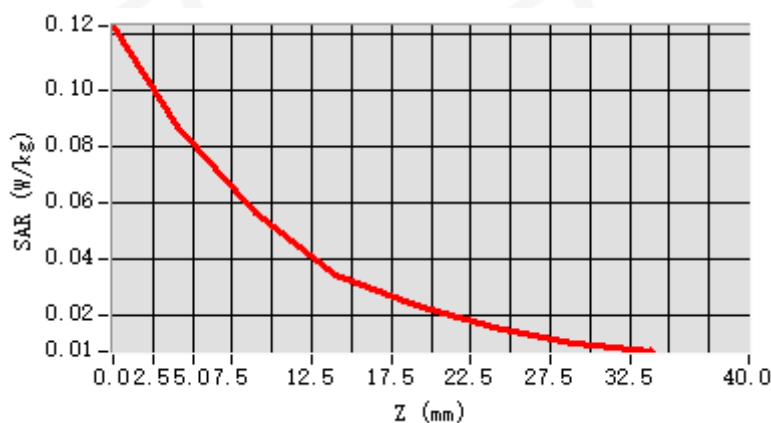
Maximum location: X=-49.00, Y=-56.00 ; SAR Peak: 0.13 W/kg

D. SAR 1g & 10g

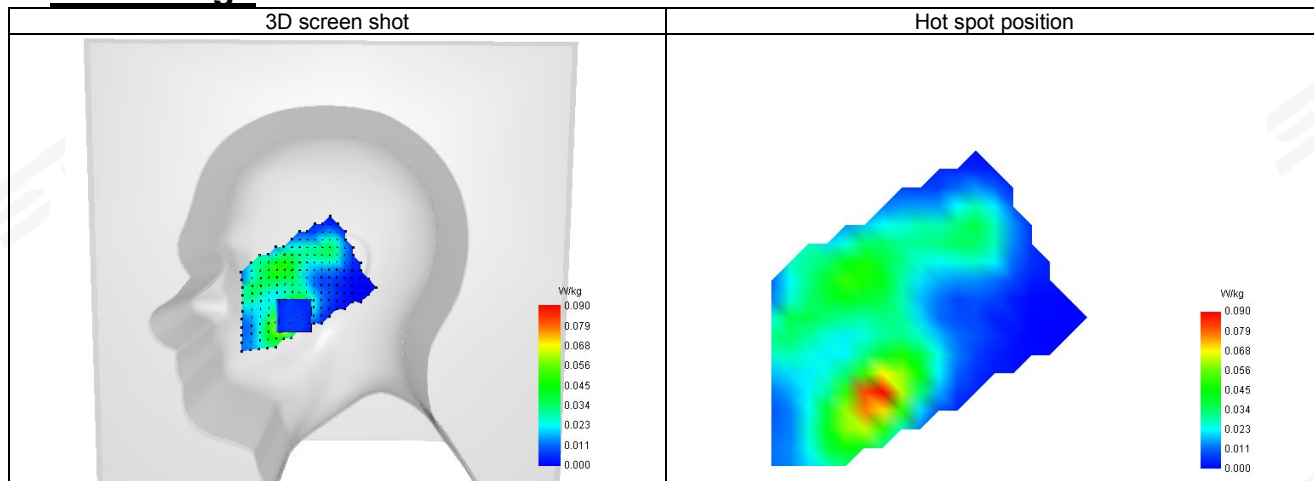
SAR 10g (W/Kg)	0.046
SAR 1g (W/Kg)	0.083
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	65.420628

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.123	0.087	0.057	0.034	0.024	0.016	0.010



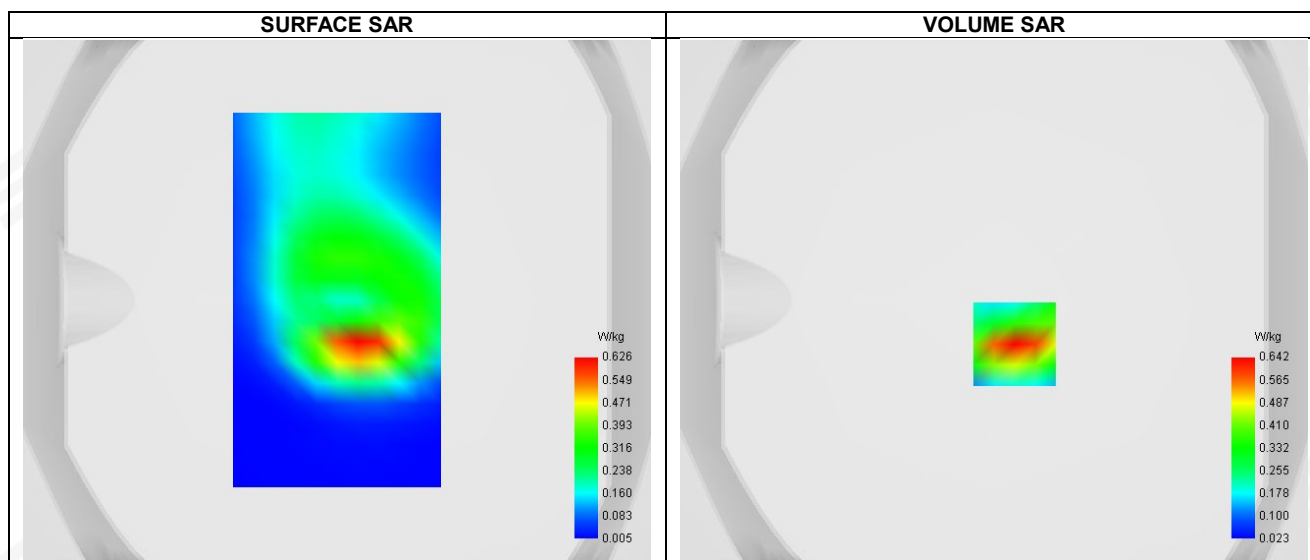
F. 3D Image





Plot 5: DUT: Smart Phone; EUT Model: RugKing 3 Pro

Test Date	2025-08-29
ConvF	1.58
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm,Complete
Phantom	Body
Device Position	Back Side
Band	GPRS1800
Signal	Duty Cycle: 2.00 (Crest factor: 2.0)
Frequency	1747.8

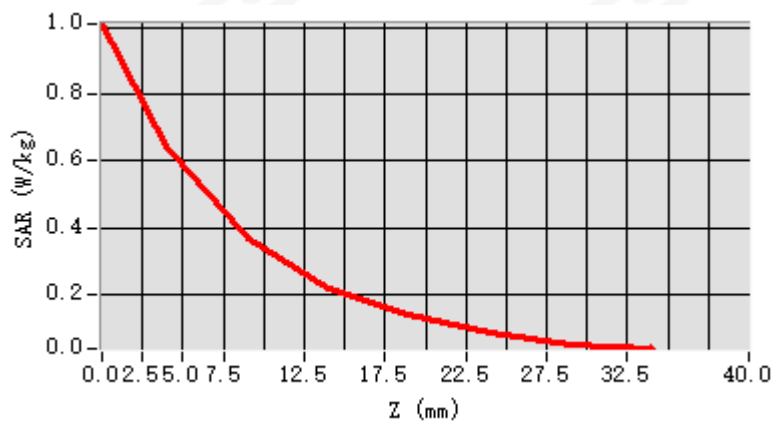


D. SAR 1g & 10g

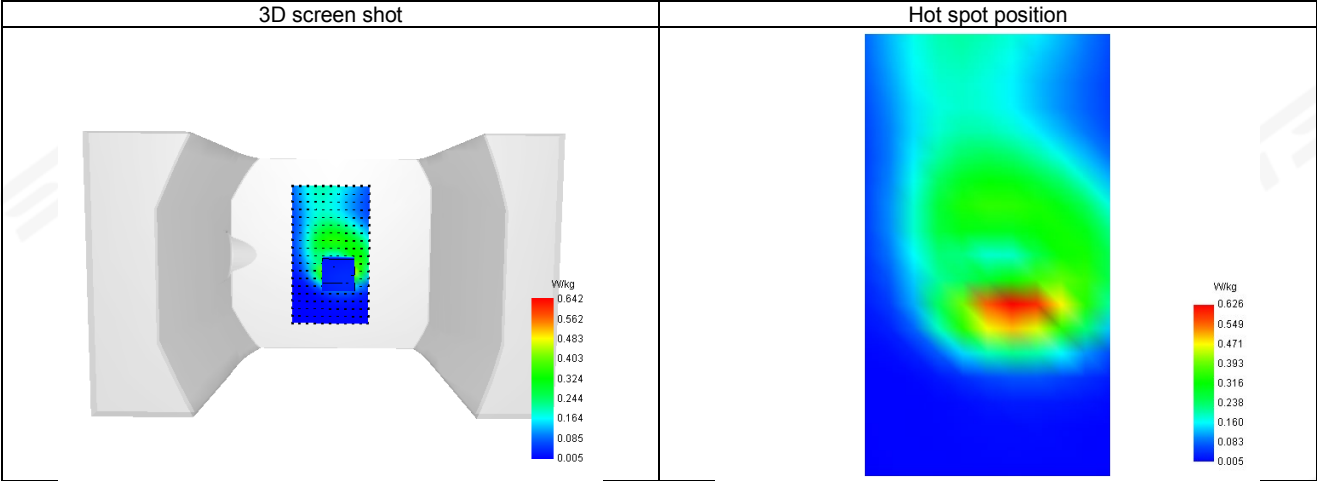
SAR 10g (W/Kg)	0.309
SAR 1g (W/Kg)	0.594
Horizontal validation criteria: minimum distance (mm)	11.313708
Vertical validation criteria: SAR ratio M2/M1 (%)	57.258366

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.010	0.642	0.368	0.221	0.143	0.088	0.054



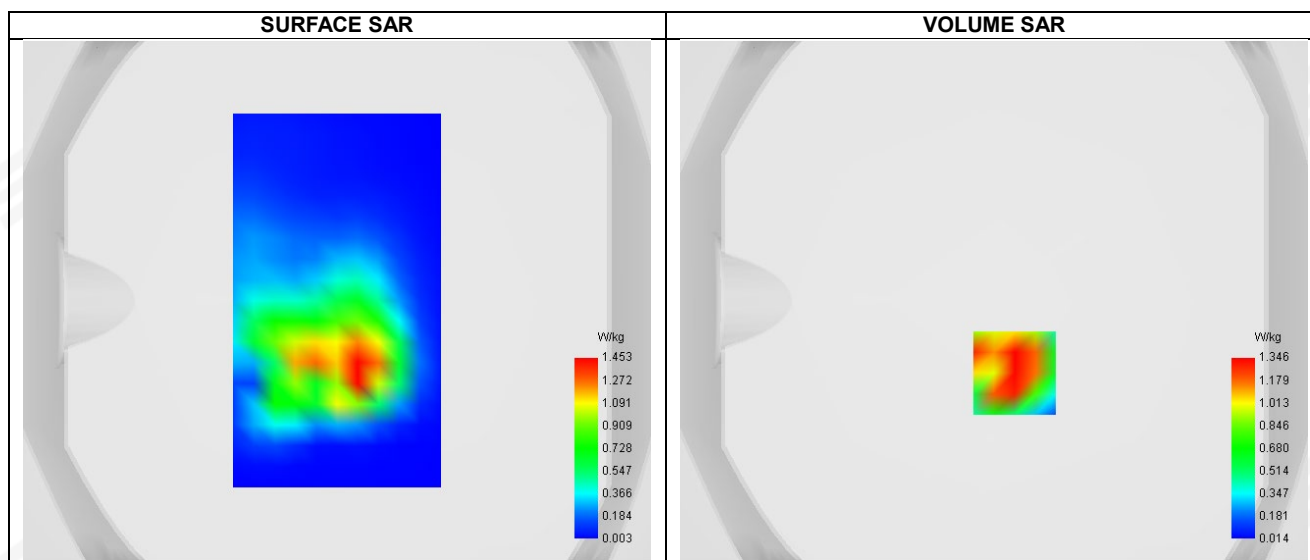
F. 3D Image





Plot 6: DUT: Smart Phone; EUT Model: RugKing 3 Pro

Test Date	2025-08-29
ConvF	1.58
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm,Complete
Phantom	Body
Device Position	Back Side
Band	GPRS1800
Signal	Duty Cycle: 2.00 (Crest factor: 2.0)
Frequency	1747.8



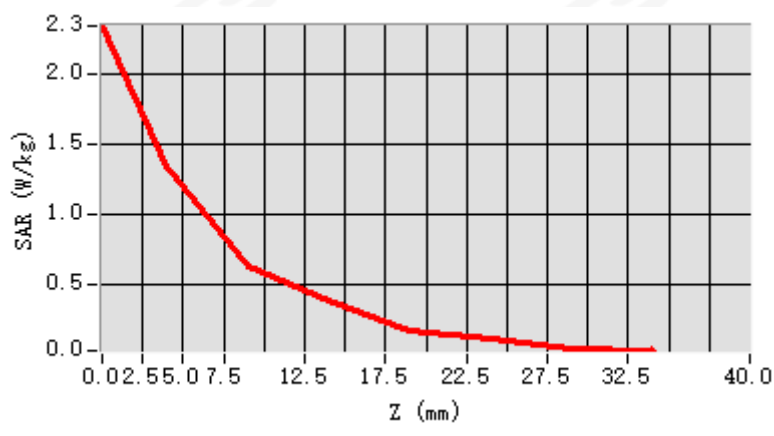
Maximum location: X=8.00, Y=-28.00 ; SAR Peak: 2.48 W/kg

D. SAR 1g & 10g

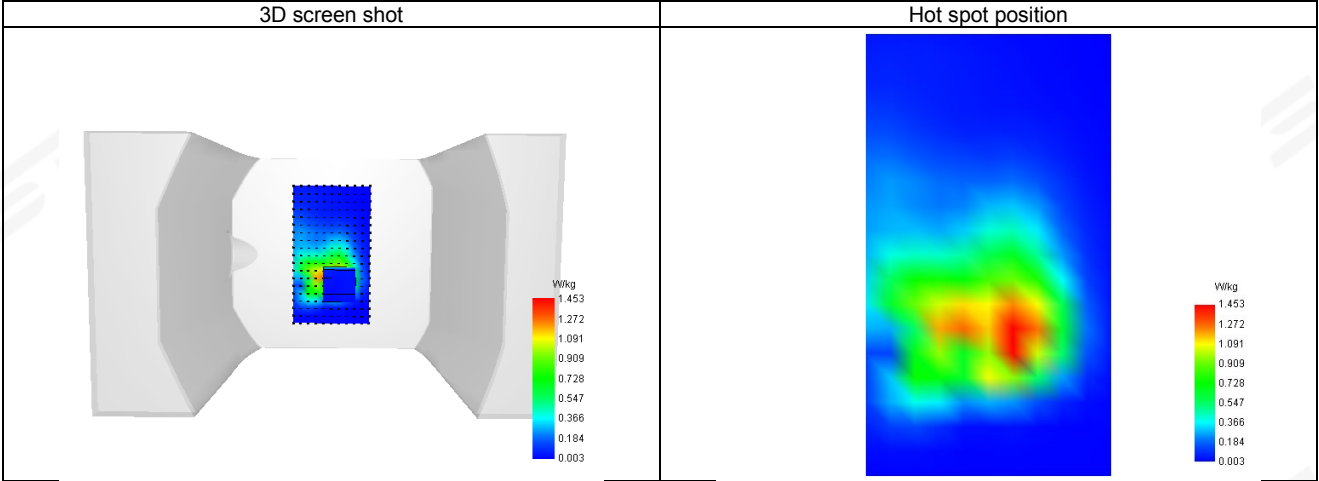
SAR 10g (W/Kg)	0.595
SAR 1g (W/Kg)	1.312
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	55.880018

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	2.341	1.346	0.635	0.396	0.181	0.117	0.049



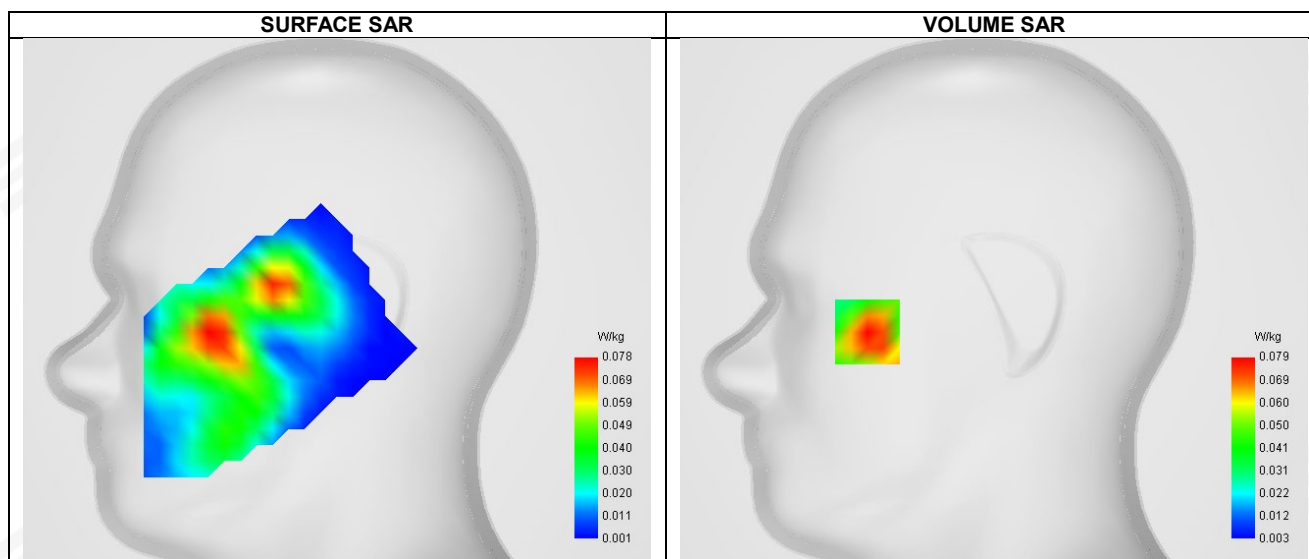
F. 3D Image





Plot 7: DUT: Smart Phone; EUT Model: RugKing 3 Pro

Test Date	2025-08-26
ConvF	1.72
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm,Complete
Phantom	Head
Device Position	Right Cheek
Band	WCDMA I
Signal	WCDMA (Crest factor: 1.0)
Frequency	1977.6



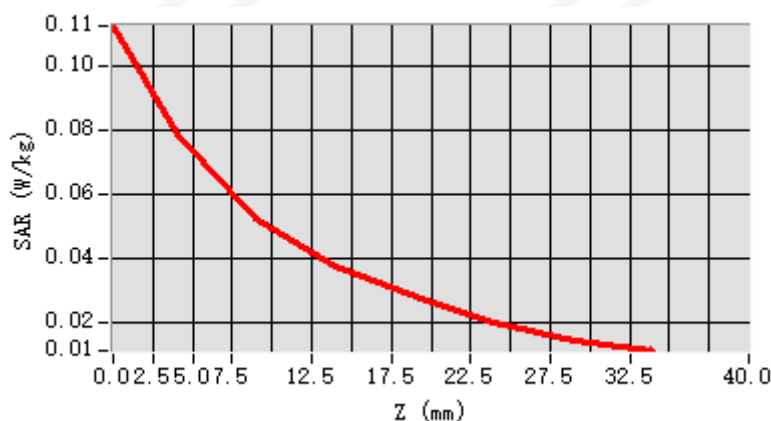
Maximum location: X=-63.00, Y=-16.00 ; SAR Peak: 0.11 W/kg

D. SAR 1g & 10g

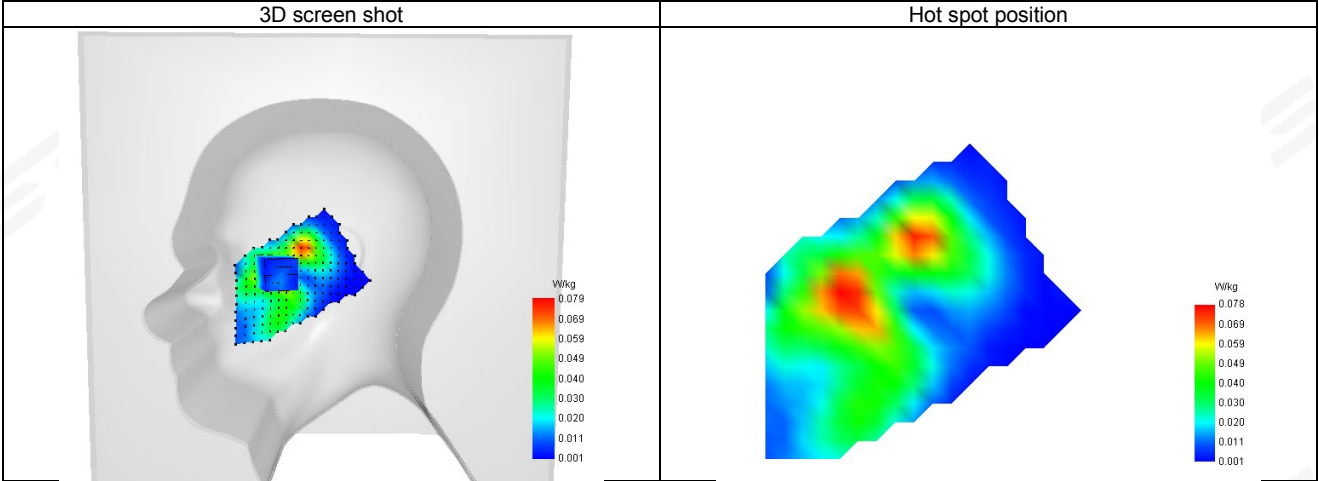
SAR 10g (W/Kg)	0.047
SAR 1g (W/Kg)	0.076
Horizontal validation criteria: minimum distance (mm)	17.888544
Vertical validation criteria: SAR ratio M2/M1 (%)	67.264562

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.112	0.079	0.053	0.037	0.028	0.021	0.015



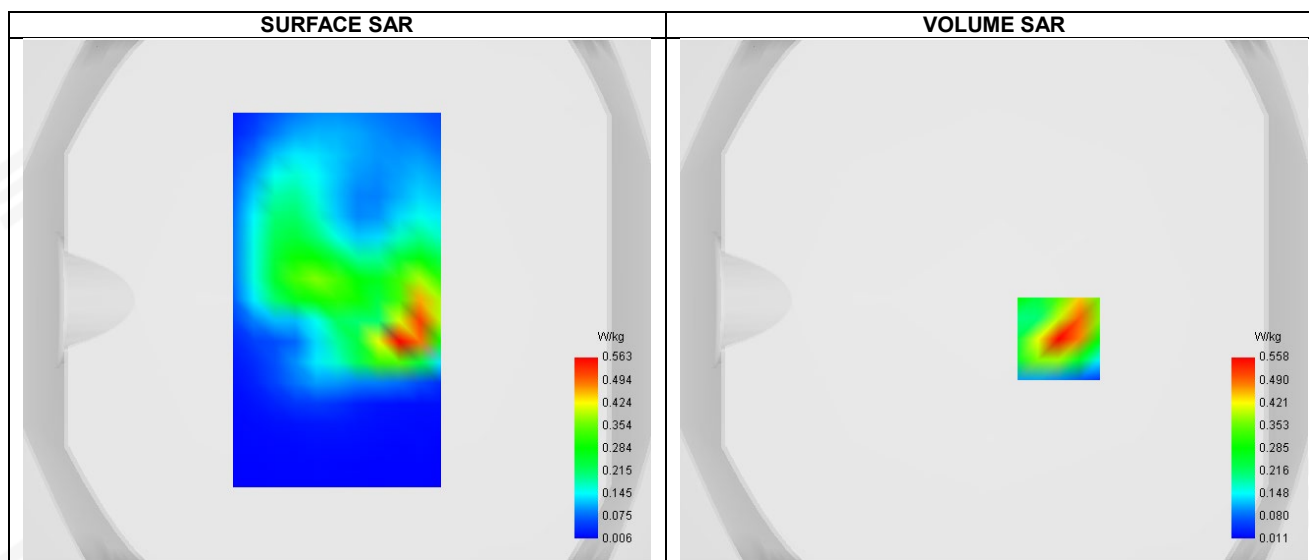
F. 3D Image





Plot 8: DUT: Smart Phone; EUT Model: RugKing 3 Pro

Test Date	2025-08-26
ConvF	1.72
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm,Complete
Phantom	Body
Device Position	Back Side
Band	WCDMA I
Signal	WCDMA (Crest factor: 1.0)
Frequency	1977.6



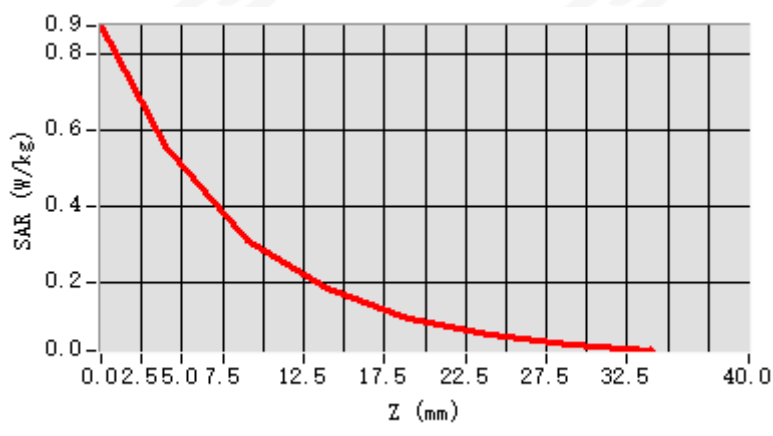
Maximum location: X=25.00, Y=-15.00 ; SAR Peak: 0.87 W/kg

D. SAR 1g & 10g

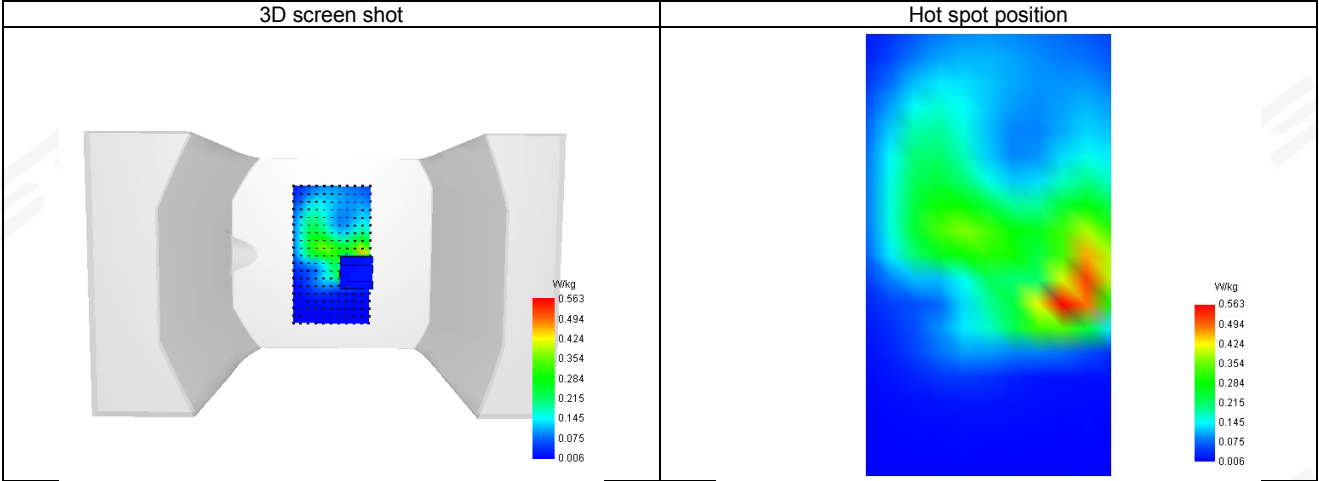
SAR 10g (W/Kg)	0.254
SAR 1g (W/Kg)	0.510
Horizontal validation criteria: minimum distance (mm)	11.313708
Vertical validation criteria: SAR ratio M2/M1 (%)	56.062638

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.872	0.558	0.313	0.185	0.107	0.062	0.036



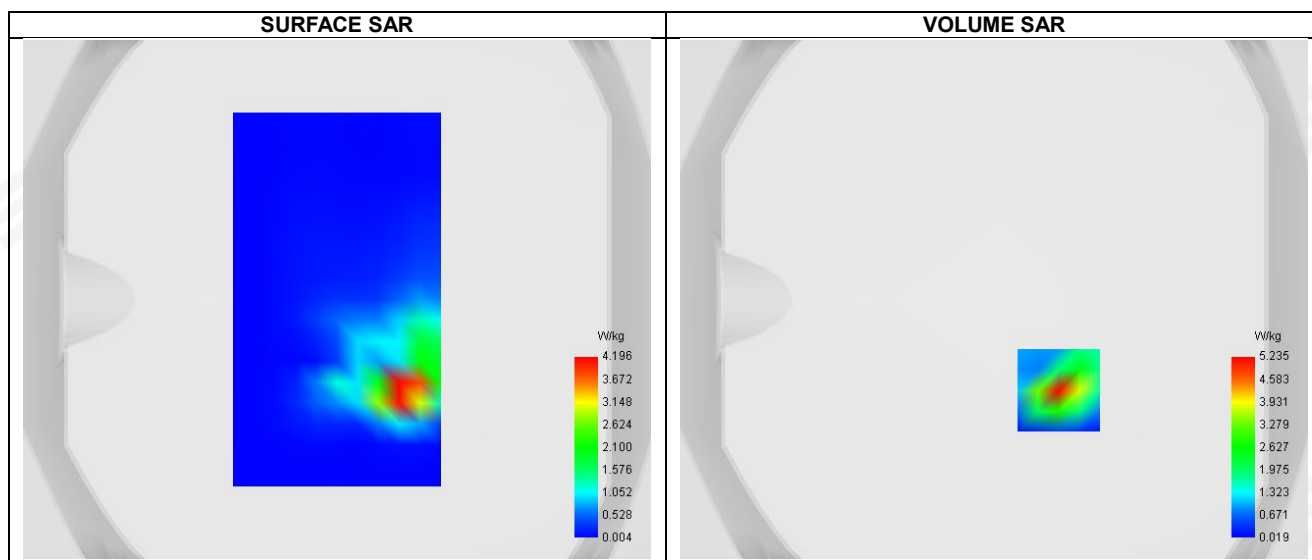
F. 3D Image





Plot 9: DUT: Smart Phone; EUT Model: RugKing 3 Pro

Test Date	2025-08-26
ConvF	1.72
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm,Complete
Phantom	Body
Device Position	Back Side
Band	WCDMA I
Signal	WCDMA (Crest factor: 1.0)
Frequency	1977.6



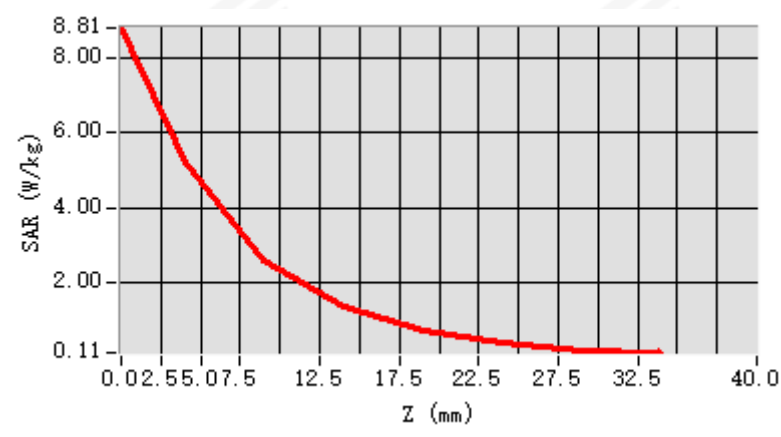
Maximum location: X=25.00, Y=-35.00 ; SAR Peak: 8.70 W/kg

D. SAR 1g & 10g

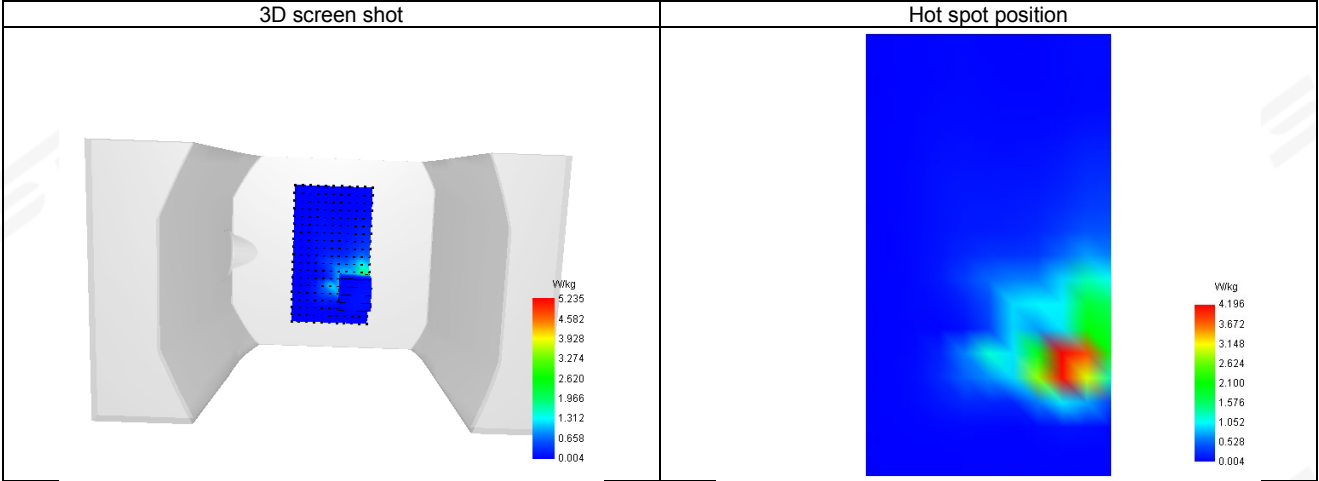
SAR 10g (W/Kg)	1.731
SAR 1g (W/Kg)	4.410
Horizontal validation criteria: minimum distance (mm)	8.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	49.796349

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	8.810	5.235	2.607	1.363	0.712	0.368	0.190



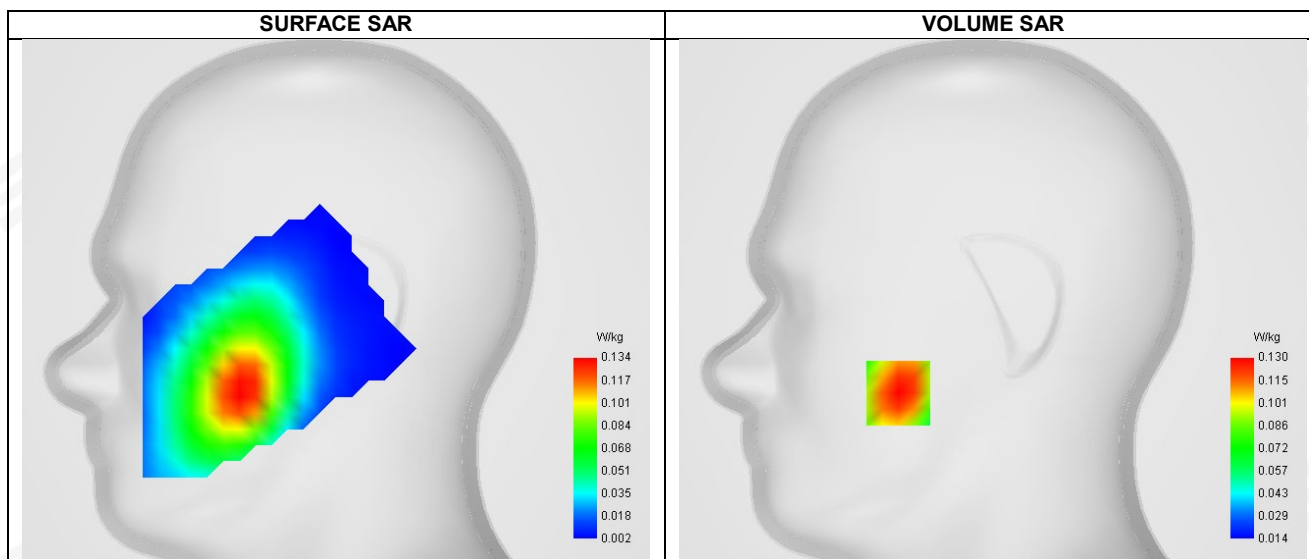
F. 3D Image





Plot 10: DUT: Smart Phone; EUT Model: RugKing 3 Pro

Test Date	2025-08-22
ConvF	1.48
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm,Complete
Phantom	Head
Device Position	Right Cheek
Band	WCDMA VIII
Signal	WCDMA (Crest factor: 1.0)
Frequency	897.4

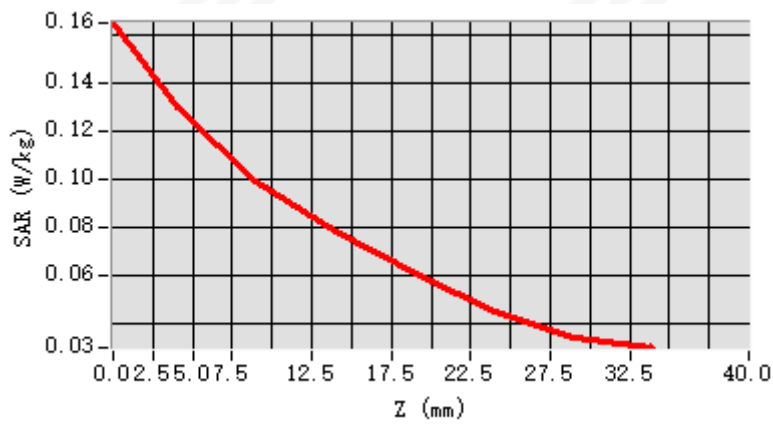


D. SAR 1g & 10g

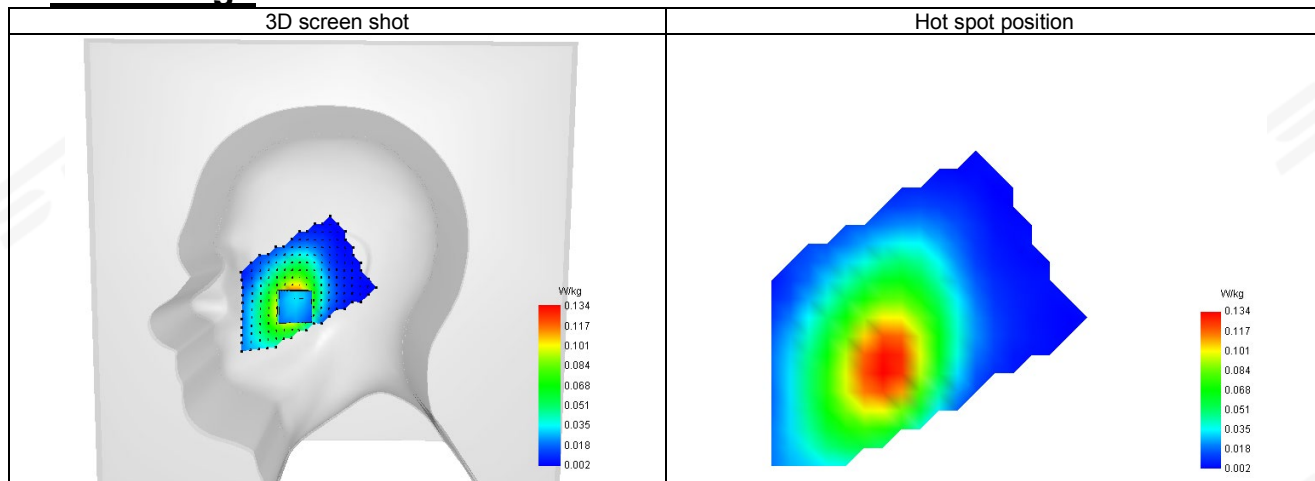
SAR 10g (W/Kg)	0.090
SAR 1g (W/Kg)	0.126
Horizontal validation criteria: minimum distance (mm)	22.627417
Vertical validation criteria: SAR ratio M2/M1 (%)	76.691445

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.165	0.130	0.100	0.078	0.061	0.045	0.034



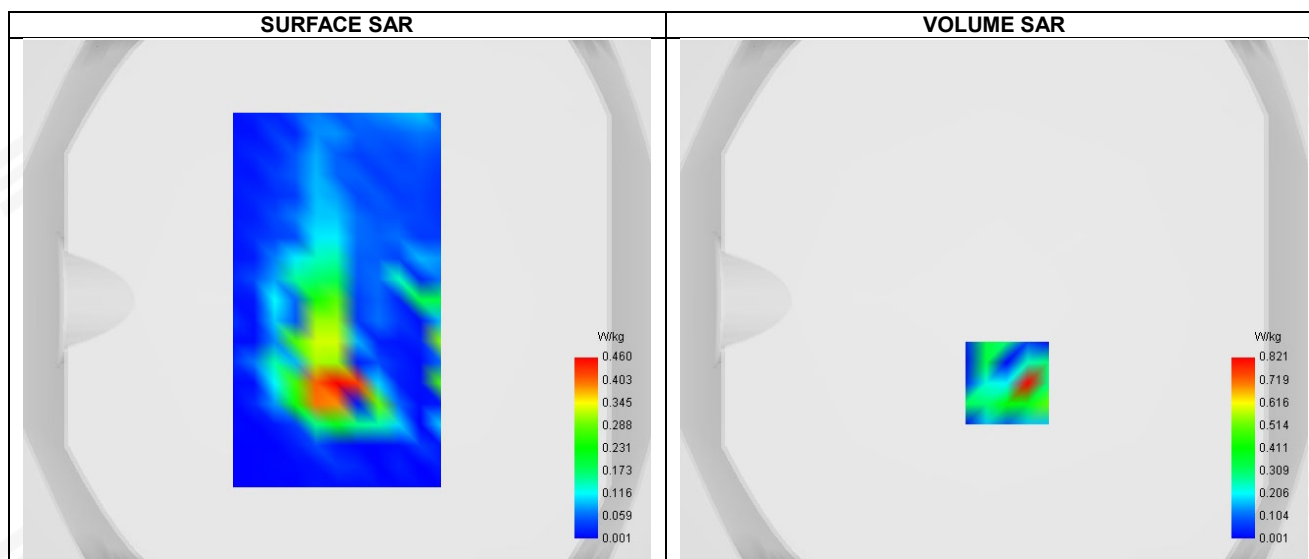
F. 3D Image





Plot 11: DUT: Smart Phone; EUT Model: RugKing 3 Pro

Test Date	2025-08-22
ConvF	1.48
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm,Complete
Phantom	Body
Device Position	Back Side
Band	WCDMA VIII
Signal	WCDMA (Crest factor: 1.0)
Frequency	882.4



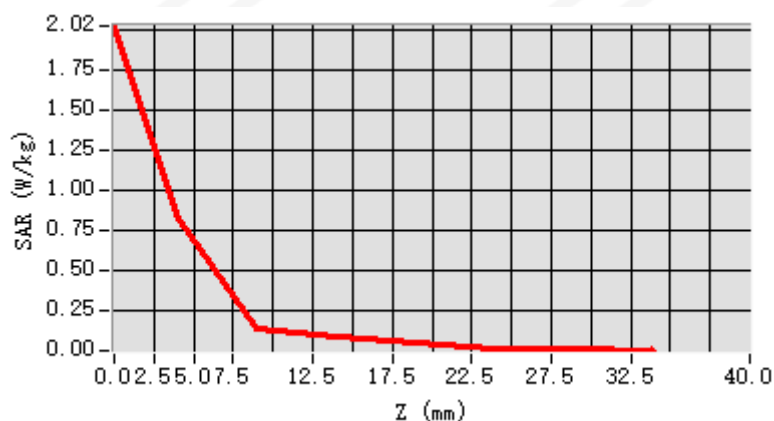
Maximum location: X=5.00, Y=-32.00 ; SAR Peak: 1.47 W/kg

D. SAR 1g & 10g

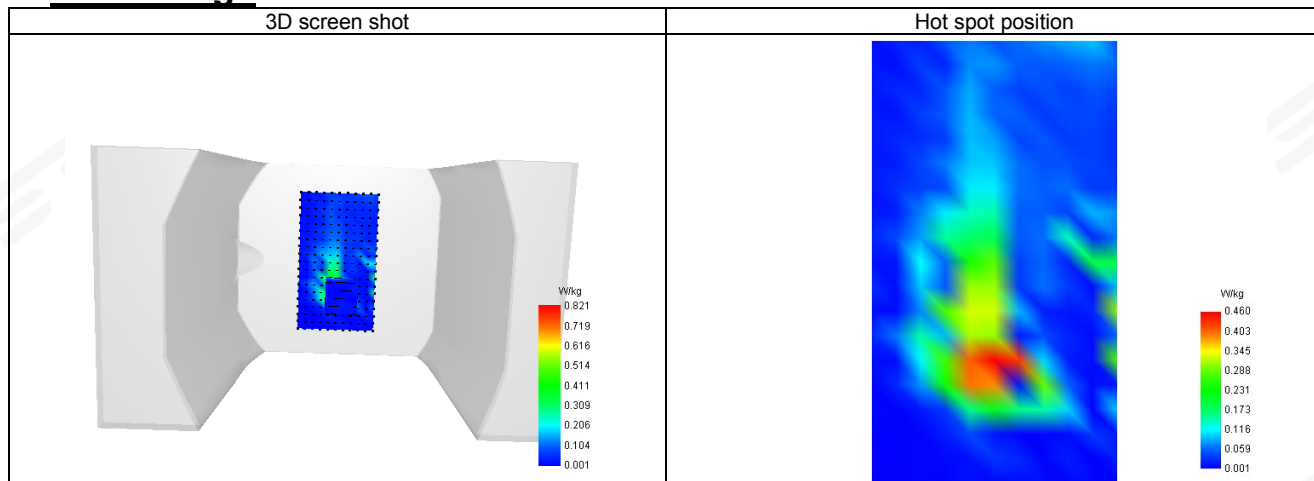
SAR 10g (W/Kg)	0.207
SAR 1g (W/Kg)	0.604
Horizontal validation criteria: minimum distance (mm)	8.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	43.548064

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	2.023	0.821	0.138	0.087	0.050	0.016	0.018



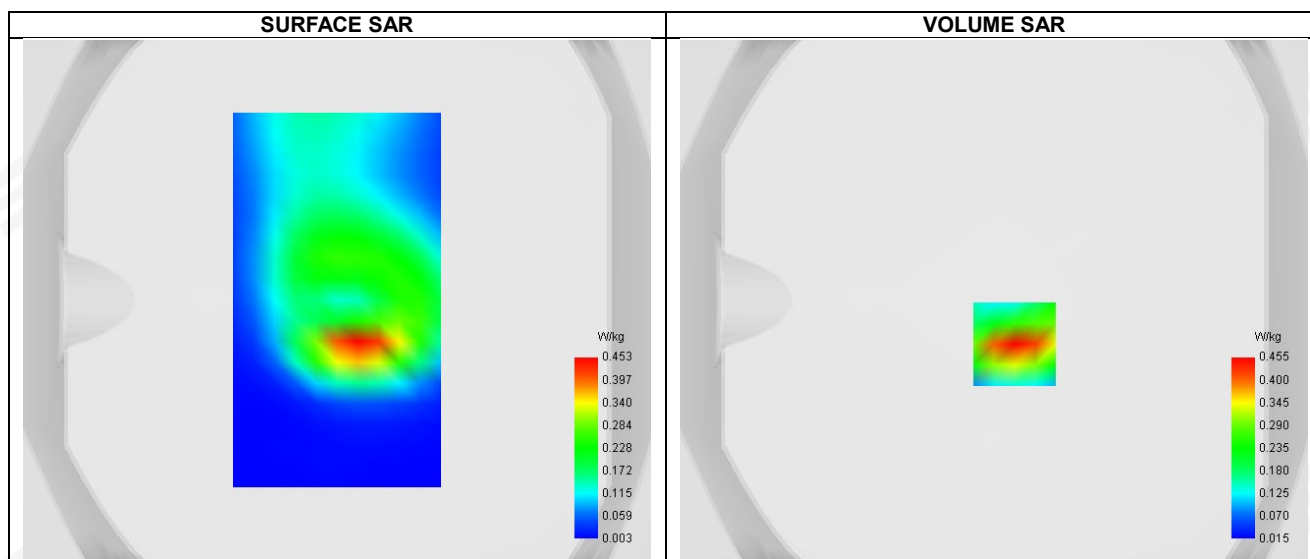
F. 3D Image





Plot 12: DUT: Smart Phone; EUT Model: RugKing 3 Pro

Test Date	2025-08-22
ConvF	1.48
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm,Complete
Phantom	Body
Device Position	Back Side
Band	WCDMA VIII
Signal	WCDMA (Crest factor: 1.0)
Frequency	882.4

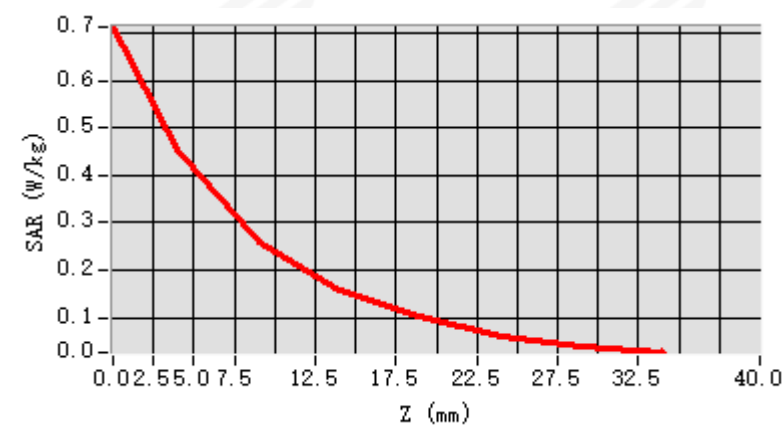


D. SAR 1g & 10g

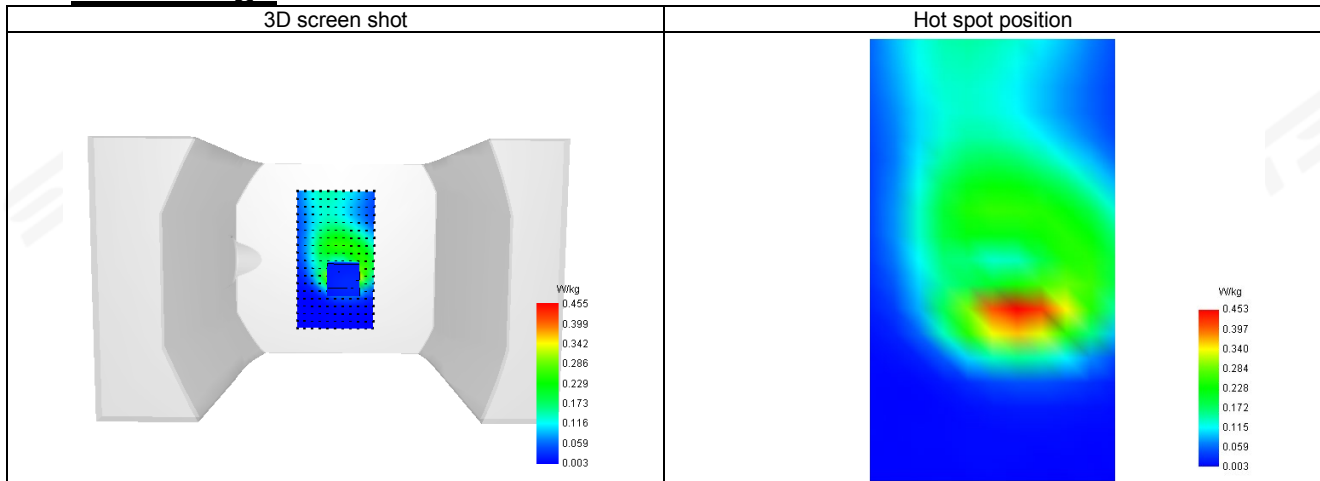
SAR 10g (W/Kg)	0.220
SAR 1g (W/Kg)	0.422
Horizontal validation criteria: minimum distance (mm)	11.313708
Vertical validation criteria: SAR ratio M2/M1 (%)	57.478117

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.713	0.455	0.262	0.157	0.101	0.062	0.038

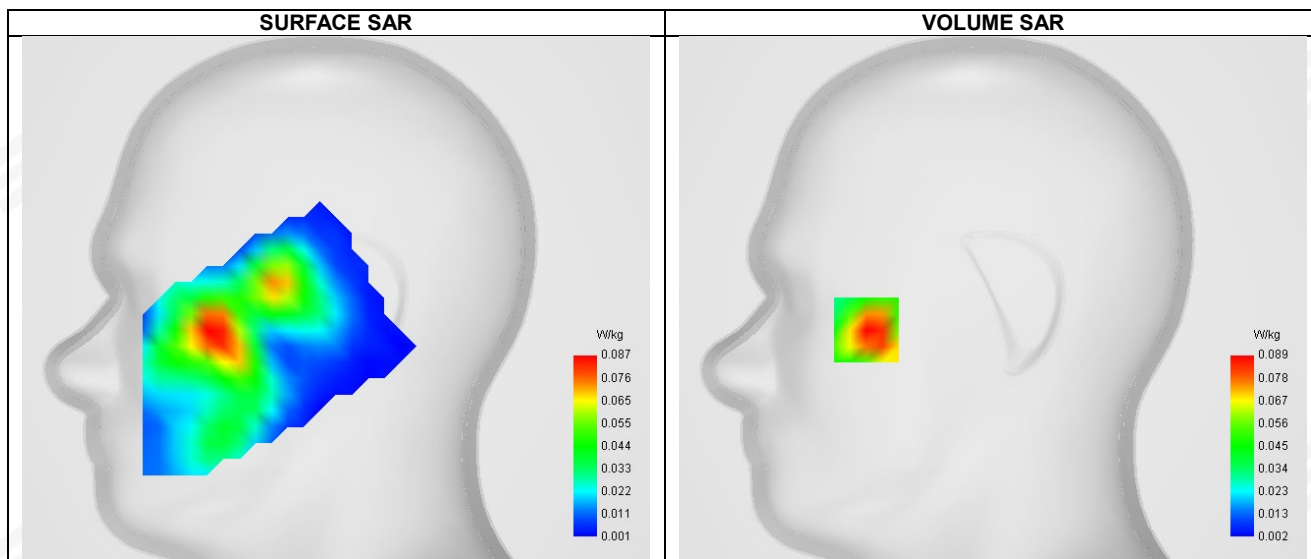


F. 3D Image



Plot 13: DUT: Smart Phone; EUT Model: RugKing 3 Pro

Test Date	2025-08-26
ConvF	1.72
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm,Complete
Phantom	Head
Device Position	Right Cheek
Band	LTE band 1
Signal	LTE (Crest factor: 1.0)
Frequency	1970



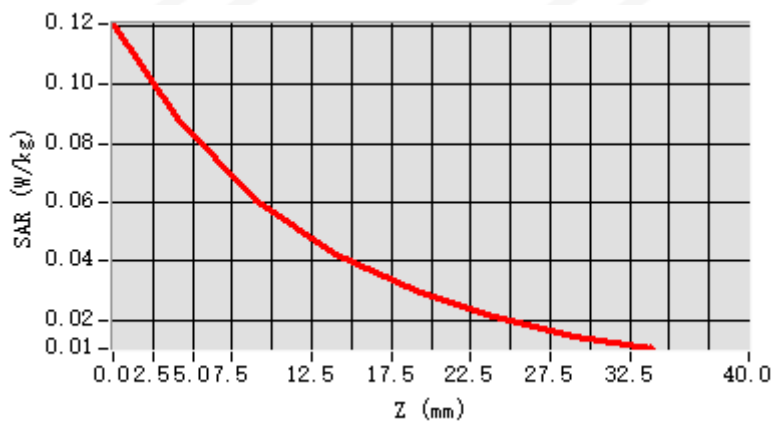
Maximum location: X=-63.00, Y=-16.00 ; SAR Peak: 0.13 W/kg

D. SAR 1g & 10g

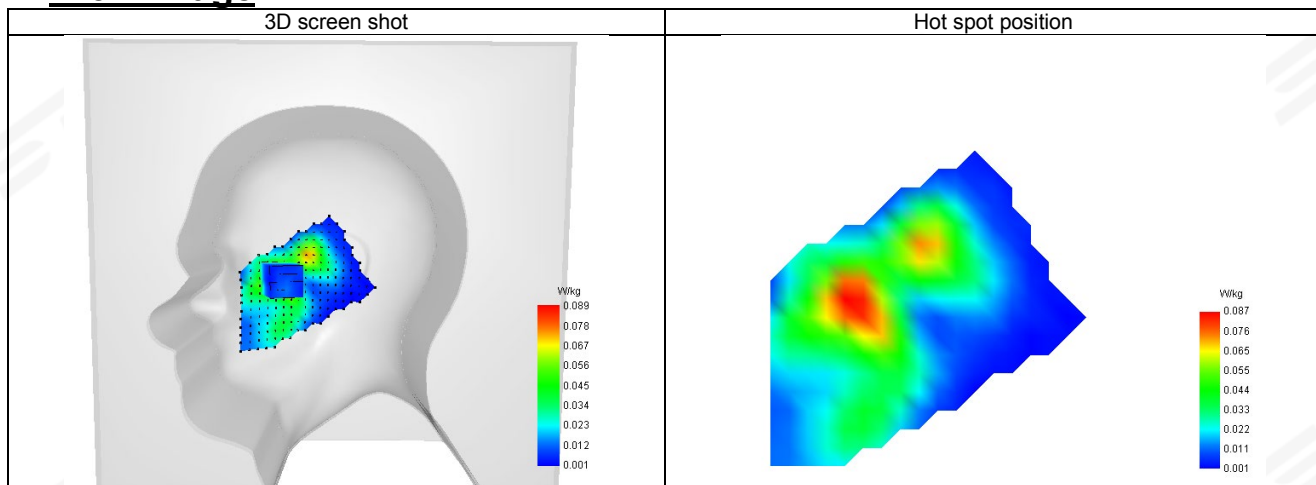
SAR 10g (W/Kg)	0.053
SAR 1g (W/Kg)	0.086
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	68.672902

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.120	0.089	0.061	0.043	0.030	0.021	0.015



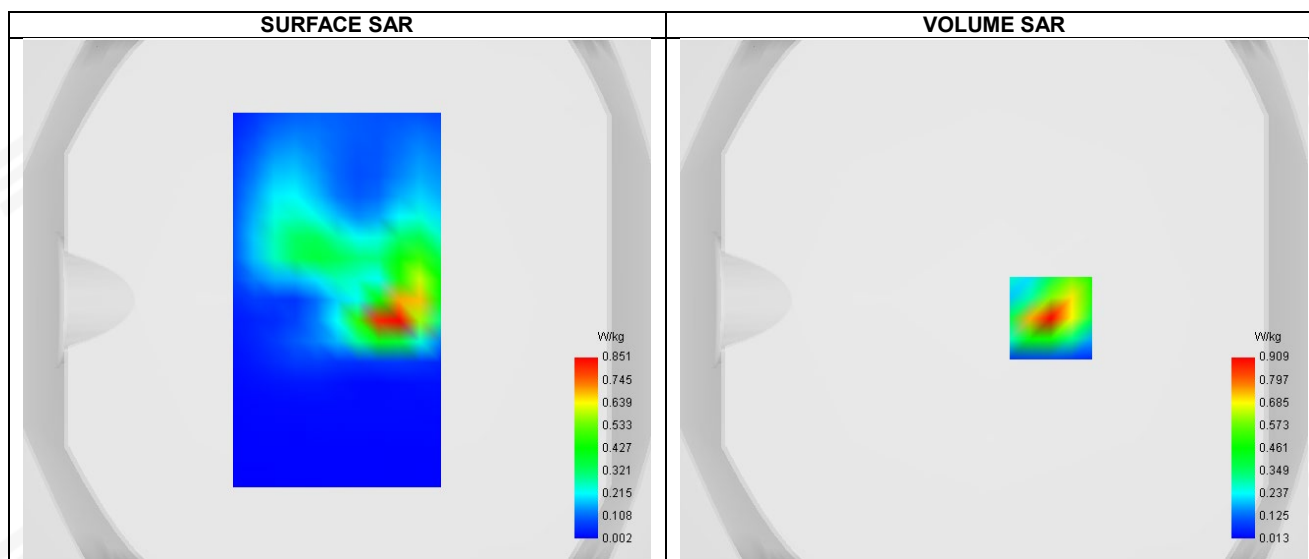
F. 3D Image





Plot 14: DUT: Smart Phone; EUT Model: RugKing 3 Pro

Test Date	2025-08-26
ConvF	1.72
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm,Complete
Phantom	Body
Device Position	Back Side
Band	LTE band 1
Signal	LTE (Crest factor: 1.0)
Frequency	1970

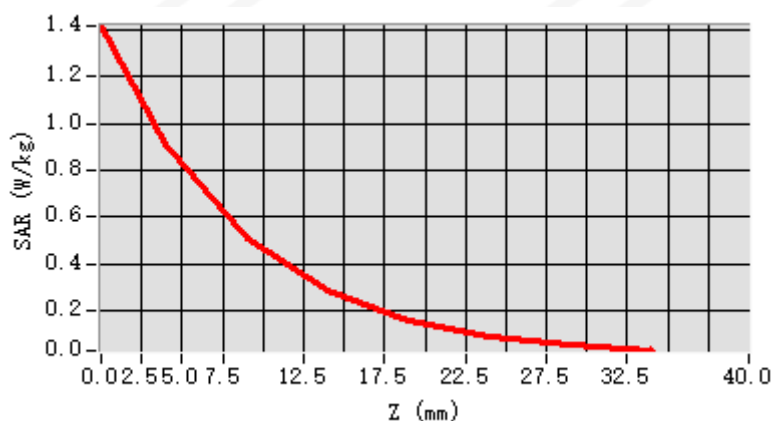


D. SAR 1g & 10g

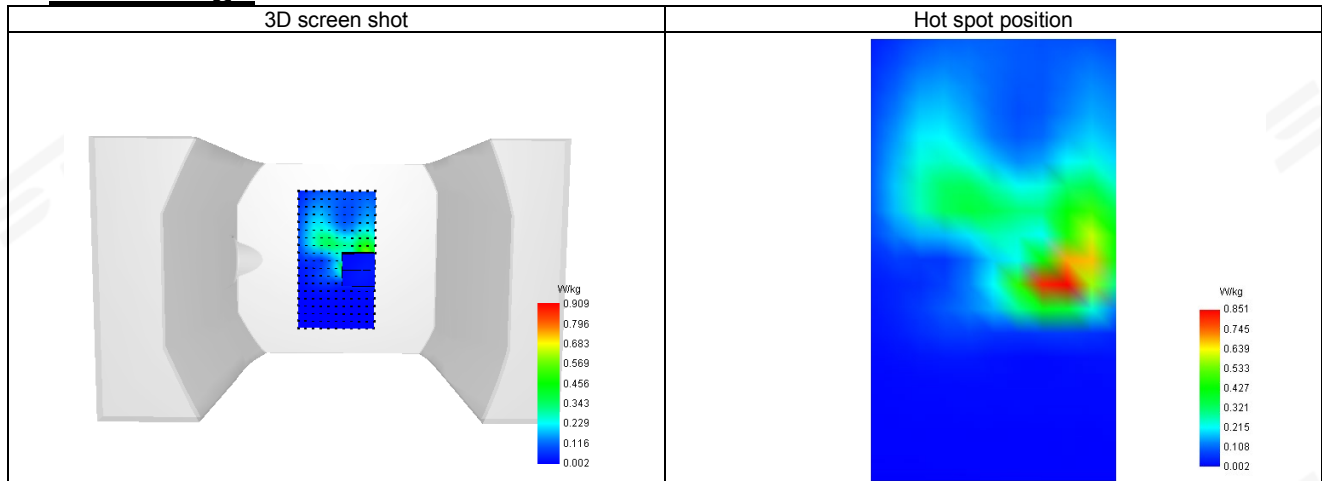
SAR 10g (W/Kg)	0.372
SAR 1g (W/Kg)	0.802
Horizontal validation criteria: minimum distance (mm)	11.313708
Vertical validation criteria: SAR ratio M2/M1 (%)	56.008589

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.415	0.909	0.509	0.288	0.163	0.094	0.053



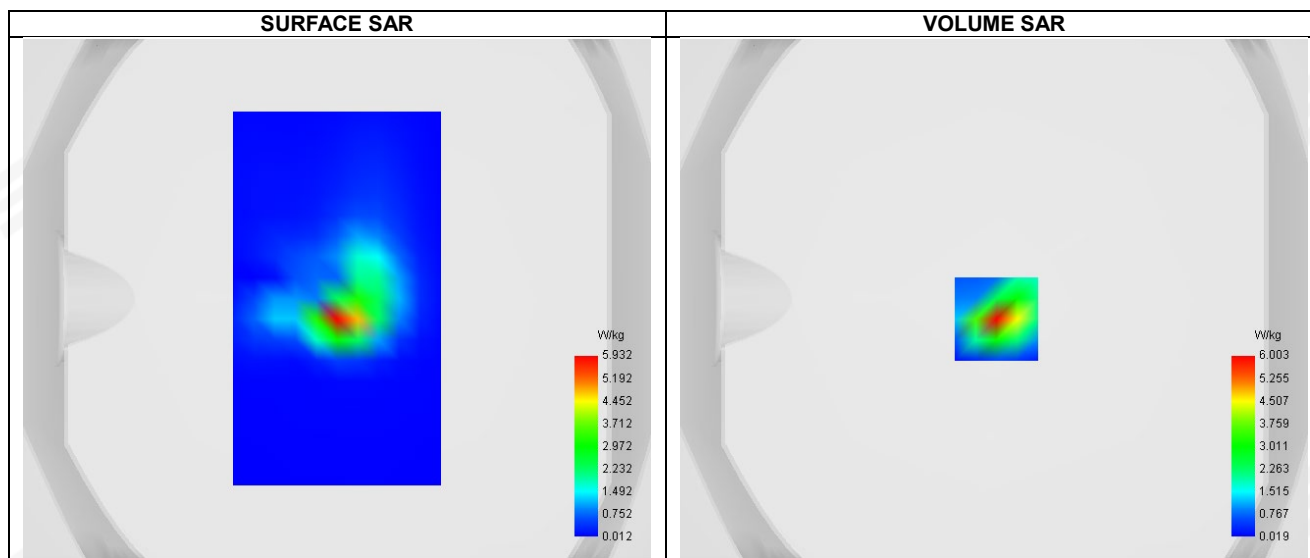
F. 3D Image





Plot 15: DUT: Smart Phone; EUT Model: RugKing 3 Pro

Test Date	2025-08-26
ConvF	1.72
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm,Complete
Phantom	Body
Device Position	Back Side
Band	LTE band 1
Signal	LTE (Crest factor: 1.0)
Frequency	1970



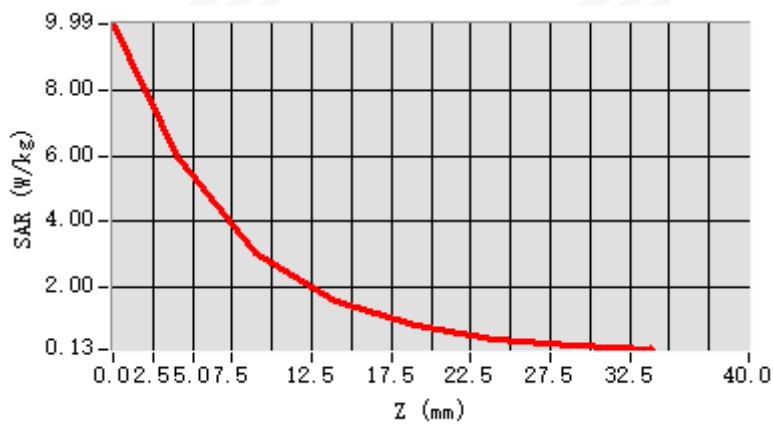
Maximum location: X=1.00, Y=-8.00 ; SAR Peak: 9.88 W/kg

D. SAR 1g & 10g

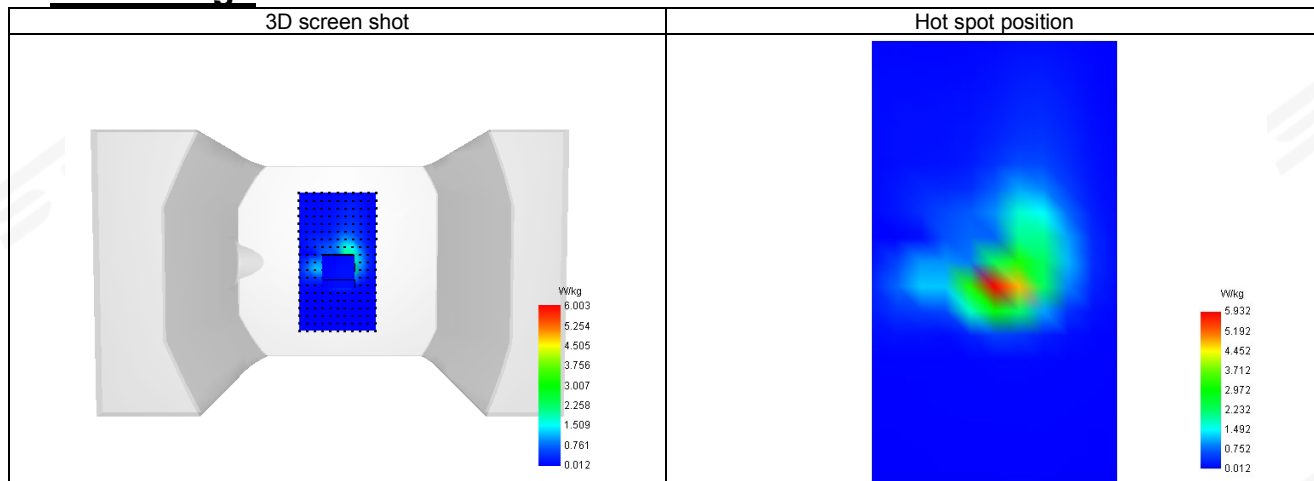
SAR 10g (W/Kg)	2.016
SAR 1g (W/Kg)	5.061
Horizontal validation criteria: minimum distance (mm)	8.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	50.503272

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	9.995	6.003	3.032	1.608	0.836	0.435	0.226



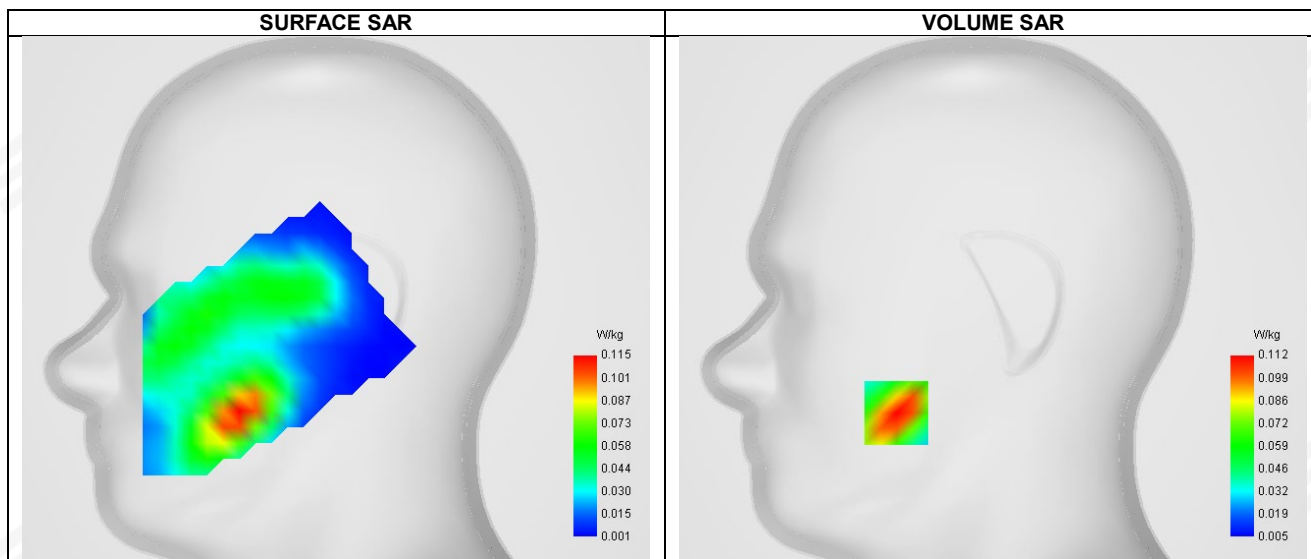
F. 3D Image





Plot 16: DUT: Smart Phone; EUT Model: RugKing 3 Pro

Test Date	2025-08-29
ConvF	1.58
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm,Complete
Phantom	Head
Device Position	Right Cheek
Band	LTE band 3
Signal	LTE (Crest factor: 1.0)
Frequency	1775

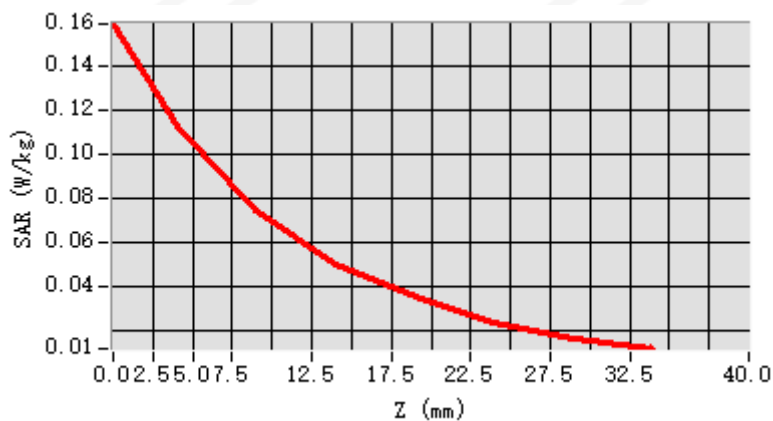


D. SAR 1g & 10g

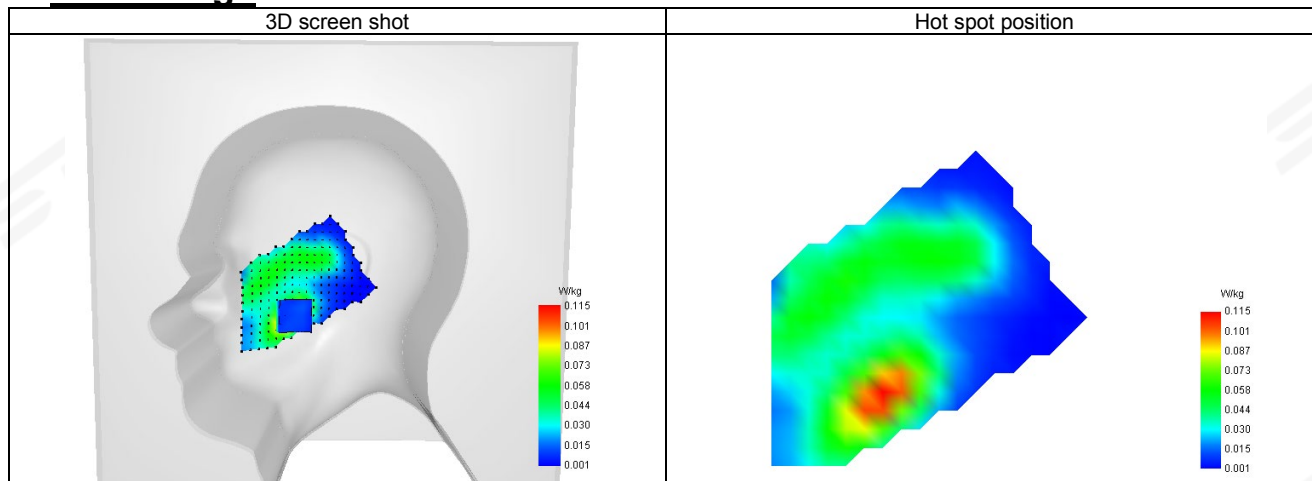
SAR 10g (W/Kg)	0.063
SAR 1g (W/Kg)	0.106
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	65.846956

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.159	0.112	0.074	0.050	0.035	0.024	0.016



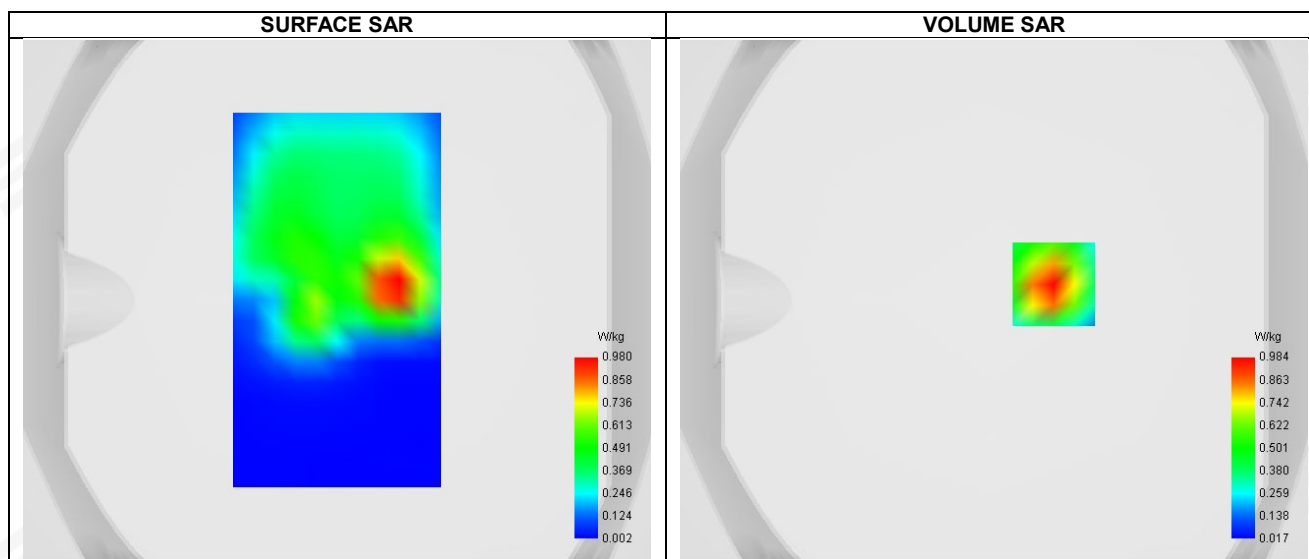
F. 3D Image





Plot 17: DUT: Smart Phone; EUT Model: RugKing 3 Pro

Test Date	2025-08-29
ConvF	1.58
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm,Complete
Phantom	Body
Device Position	Back Side
Band	LTE band 3
Signal	LTE (Crest factor: 1.0)
Frequency	1775

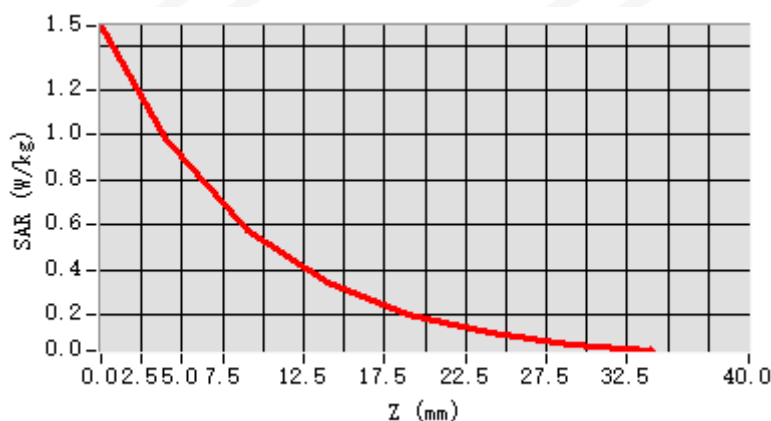


D. SAR 1g & 10g

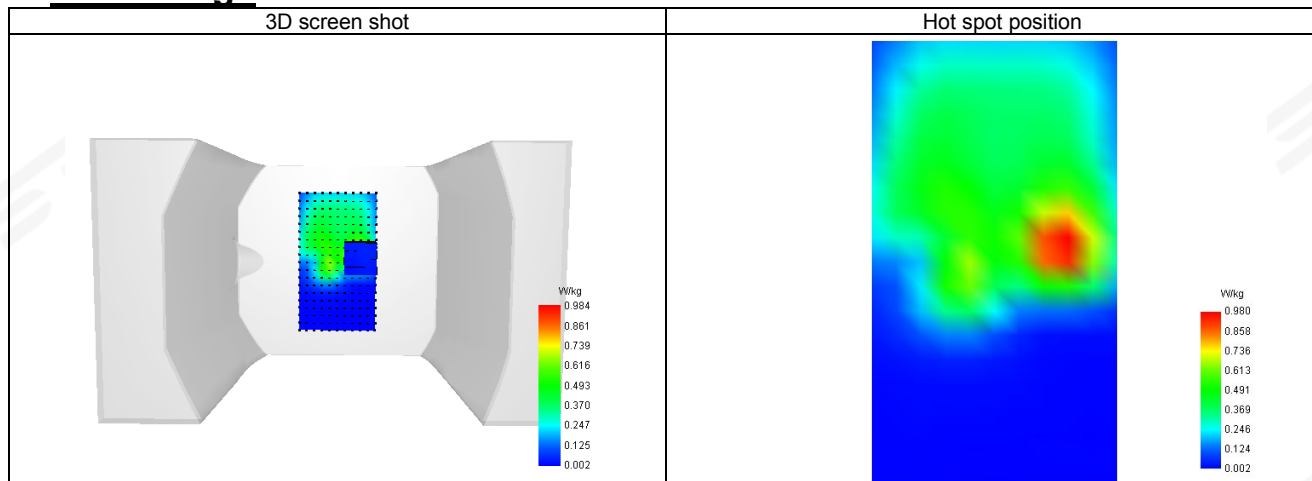
SAR 10g (W/Kg)	0.487
SAR 1g (W/Kg)	0.933
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	58.498625

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.487	0.984	0.576	0.339	0.199	0.119	0.068



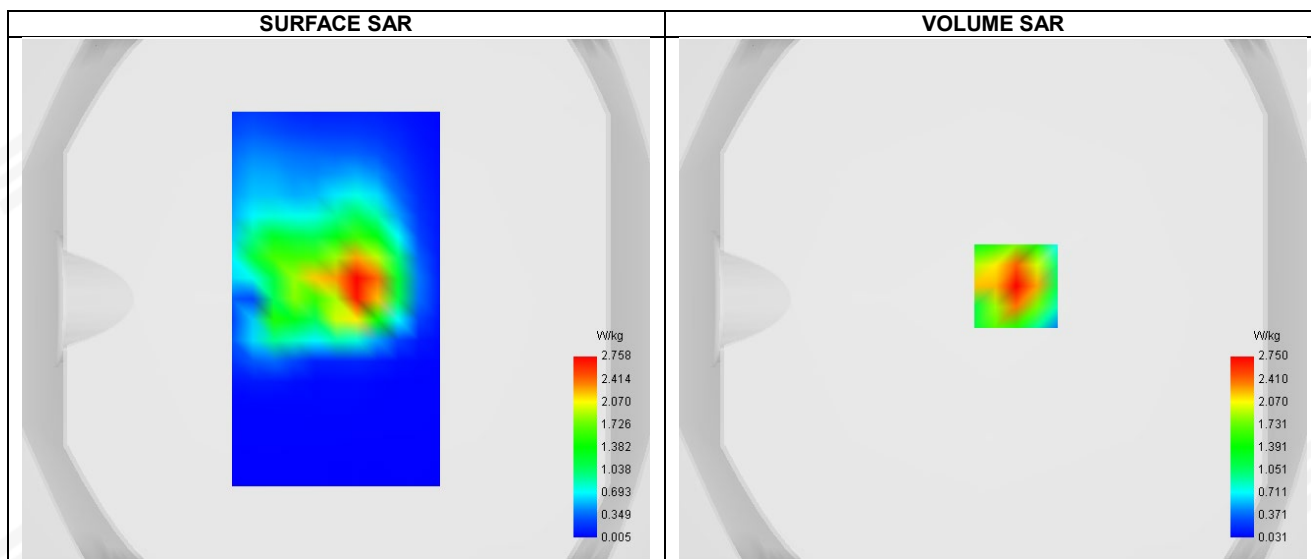
F. 3D Image





Plot 18: DUT: Smart Phone; EUT Model: RugKing 3 Pro

Test Date	2025-08-29
ConvF	1.58
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm,Complete
Phantom	Body
Device Position	Back Side
Band	LTE band 3
Signal	LTE (Crest factor: 1.0)
Frequency	1775

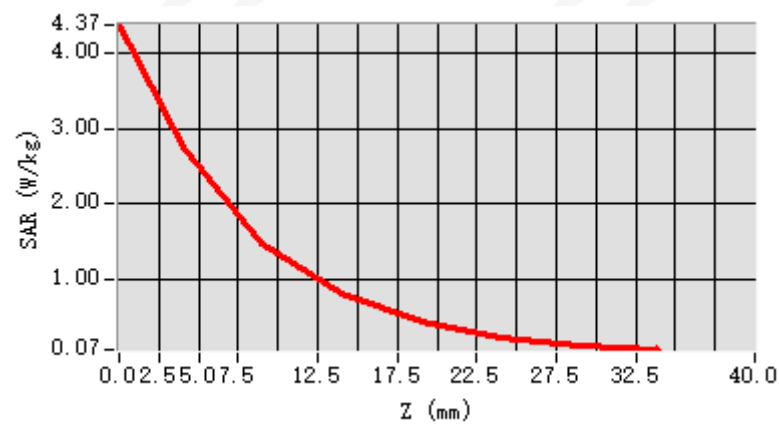


D. SAR 1g & 10g

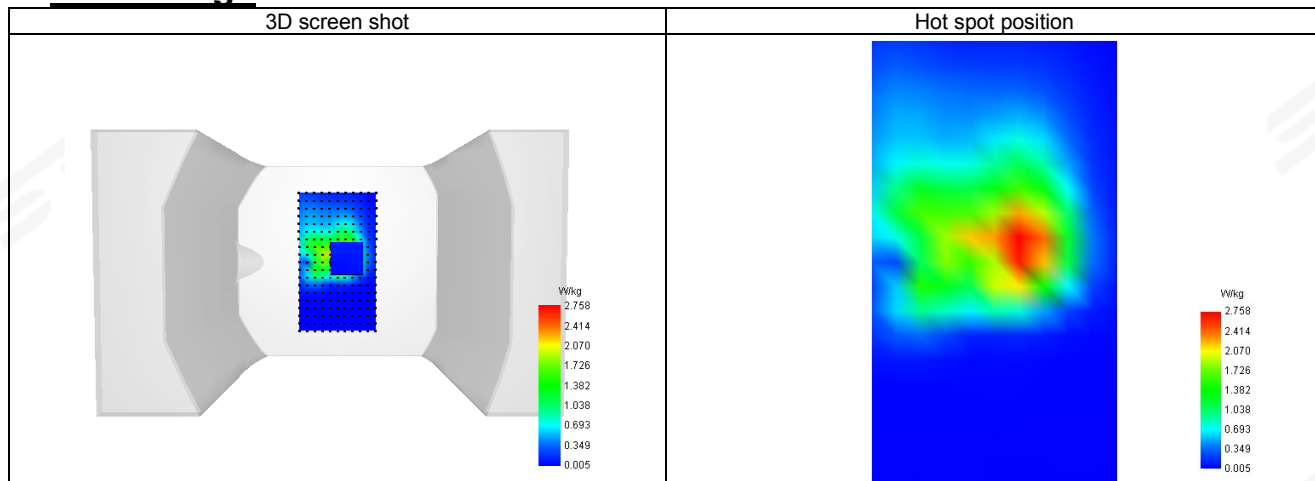
SAR 10g (W/Kg)	1.323
SAR 1g (W/Kg)	2.575
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	54.330968

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	4.366	2.750	1.492	0.820	0.449	0.245	0.134



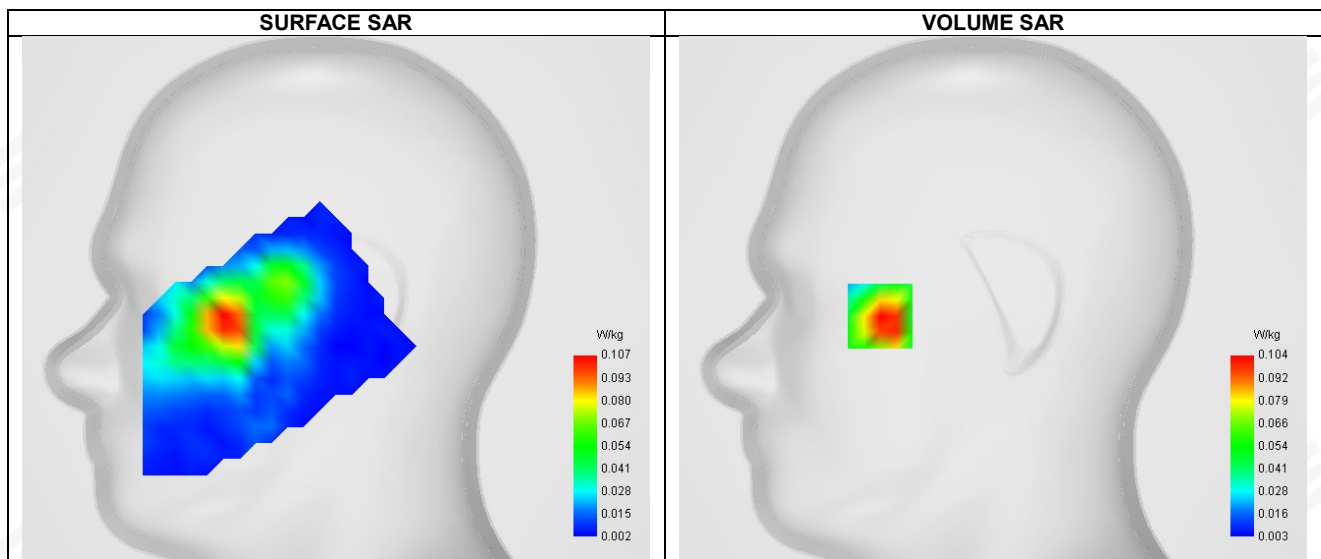
F. 3D Image





Plot 19: DUT: Smart Phone; EUT Model: RugKing 3 Pro

Test Date	2025-08-26
ConvF	1.74
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm,Complete
Phantom	Head
Device Position	Right Cheek
Band	LTE band 7
Signal	LTE (Crest factor: 1.0)
Frequency	2535



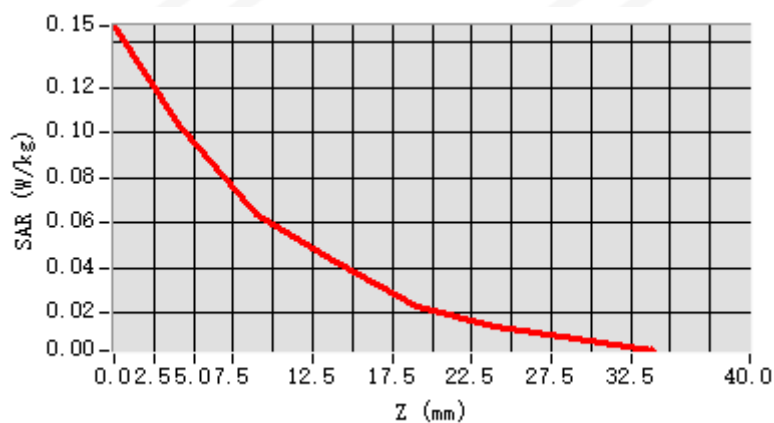
Maximum location: X=-56.00, Y=-9.00 ; SAR Peak: 0.16 W/kg

D. SAR 1g & 10g

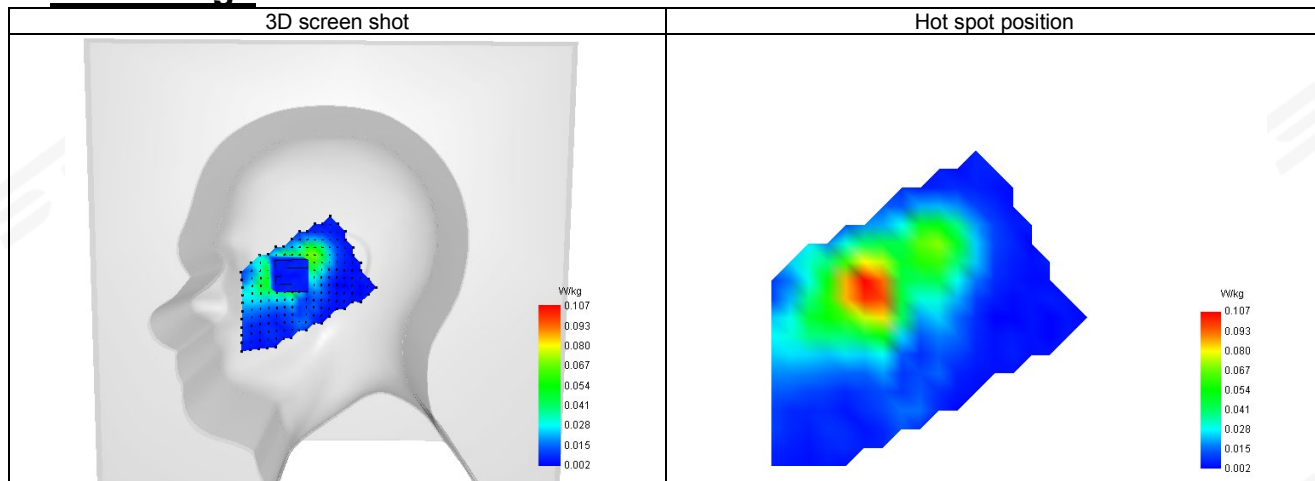
SAR 10g (W/Kg)	0.056
SAR 1g (W/Kg)	0.101
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	61.730045

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.147	0.104	0.064	0.043	0.023	0.014	0.008



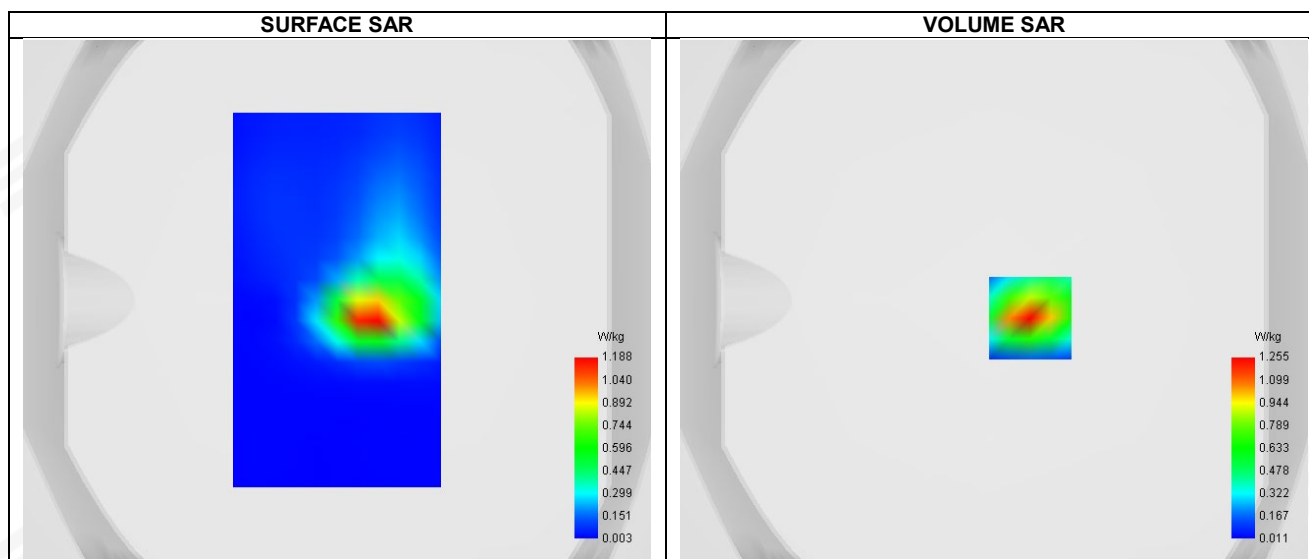
F. 3D Image





Plot 20: DUT: Smart Phone; EUT Model: RugKing 3 Pro

Test Date	2025-08-26
ConvF	1.74
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm,Complete
Phantom	Body
Device Position	Back Side
Band	LTE band 7
Signal	LTE (Crest factor: 1.0)
Frequency	2535

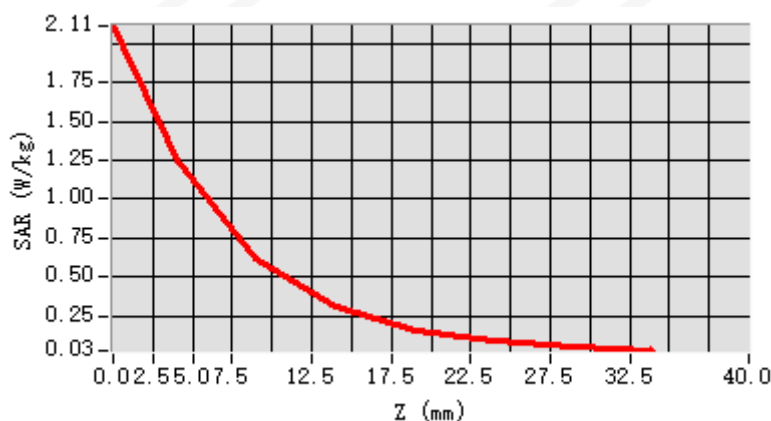


D. SAR 1g & 10g

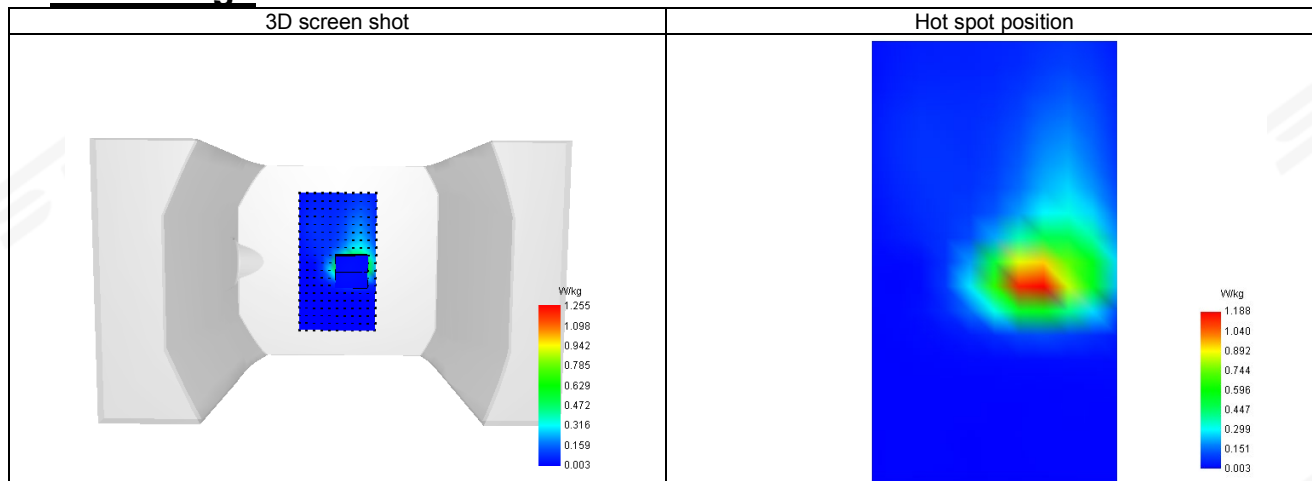
SAR 10g (W/Kg)	0.502
SAR 1g (W/Kg)	1.137
Horizontal validation criteria: minimum distance (mm)	11.313708
Vertical validation criteria: SAR ratio M2/M1 (%)	49.372668

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	2.114	1.255	0.620	0.310	0.160	0.084	0.046



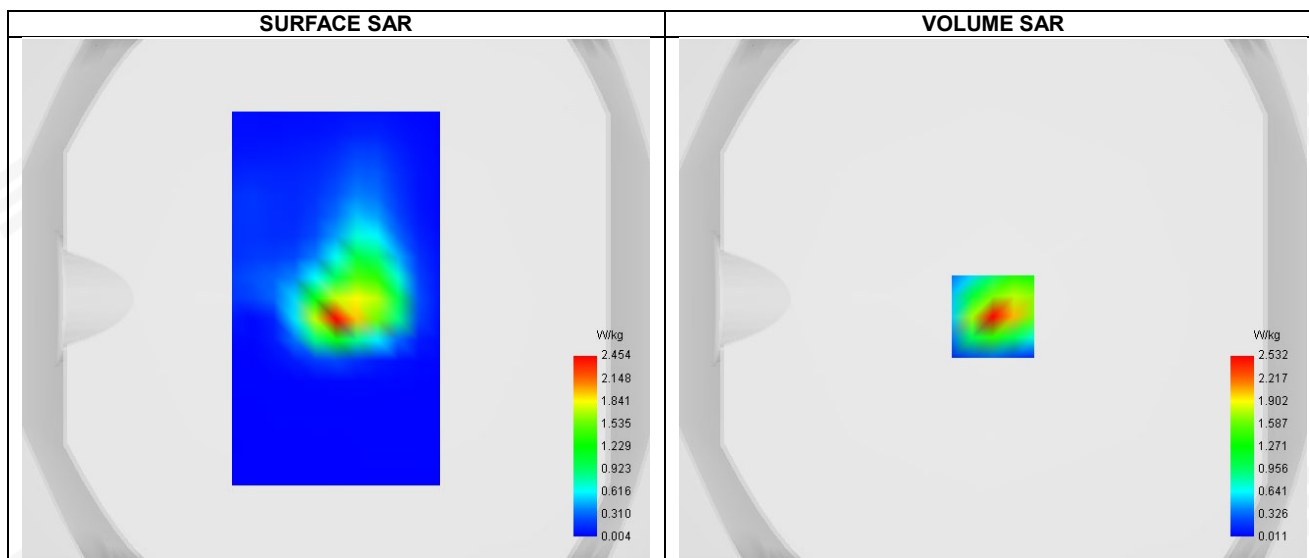
F. 3D Image





Plot 21: DUT: Smart Phone; EUT Model: RugKing 3 Pro

Test Date	2025-08-26
ConvF	1.74
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm,Complete
Phantom	Body
Device Position	Back Side
Band	LTE band 7
Signal	LTE (Crest factor: 1.0)
Frequency	2535



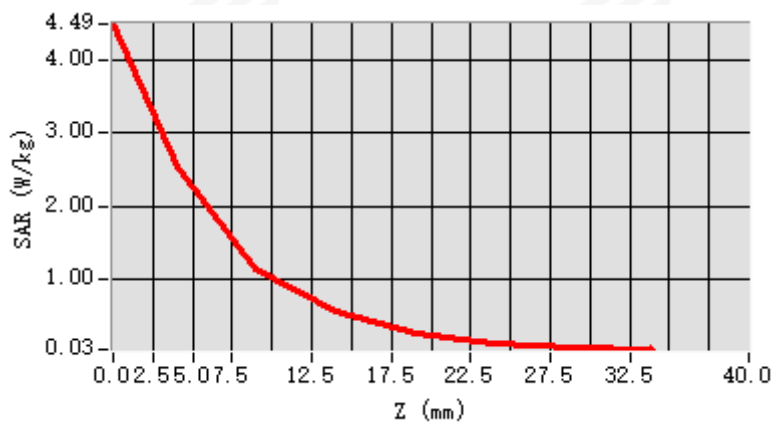
Maximum location: X=0.00, Y=-7.00 ; SAR Peak: 4.43 W/kg

D. SAR 1g & 10g

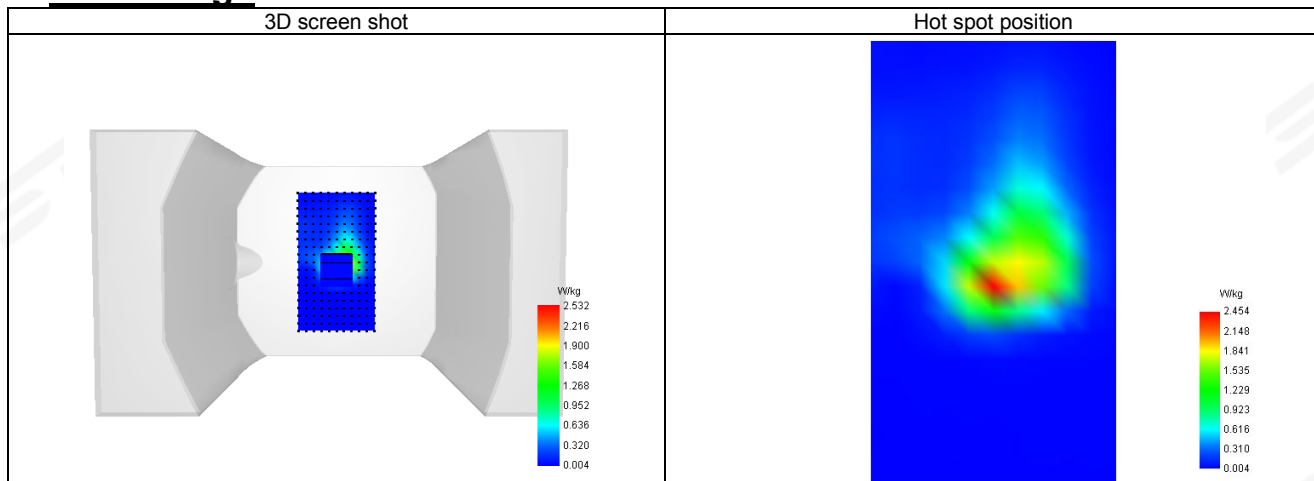
SAR 10g (W/Kg)	0.925
SAR 1g (W/Kg)	2.256
Horizontal validation criteria: minimum distance (mm)	11.313708
Vertical validation criteria: SAR ratio M2/M1 (%)	45.188386

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	4.492	2.532	1.144	0.557	0.263	0.124	0.059



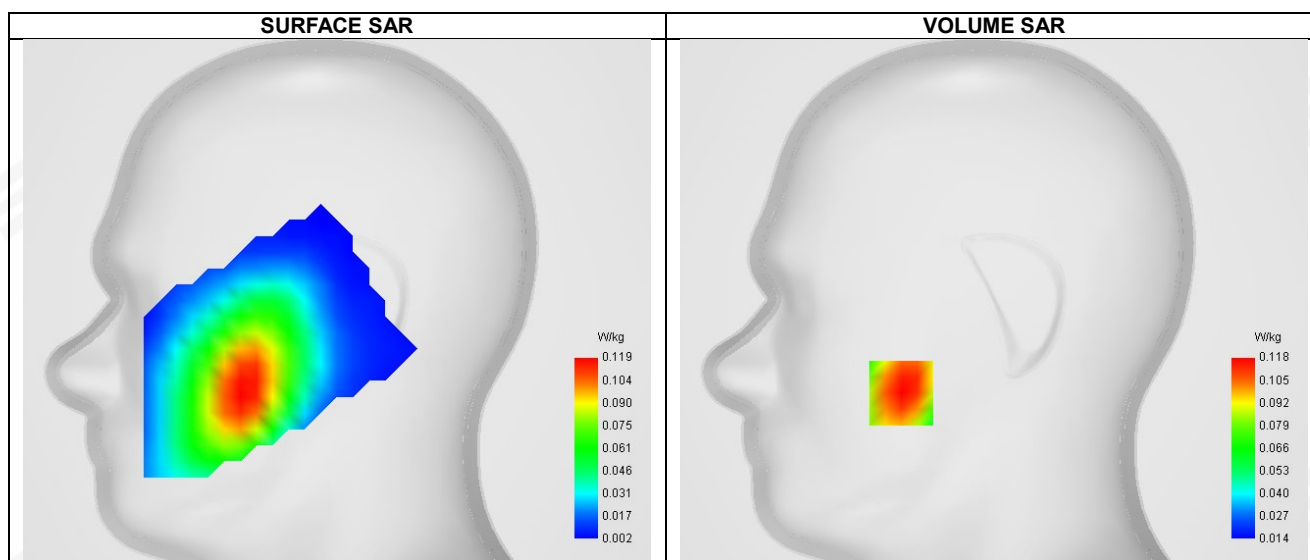
F. 3D Image





Plot 22: DUT: Smart Phone; EUT Model: RugKing 3 Pro

Test Date	2025-08-22
ConvF	1.48
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm,Complete
Phantom	Head
Device Position	Right Cheek
Band	LTE band 8
Signal	LTE (Crest factor: 1.0)
Frequency	910



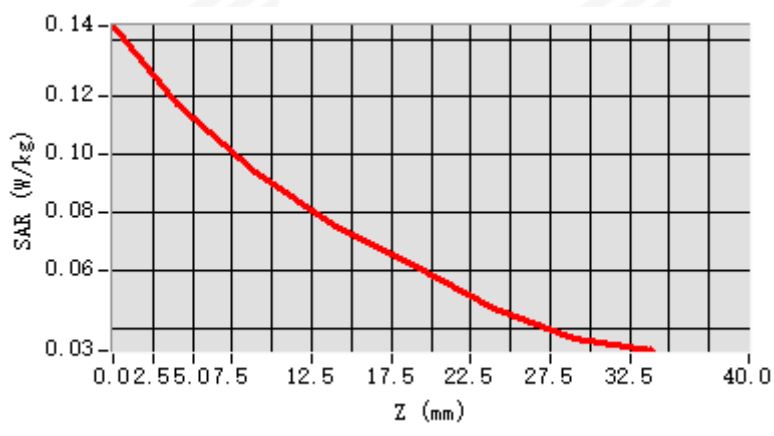
Maximum location: X=-46.00, Y=-46.00 ; SAR Peak: 0.14 W/kg

D. SAR 1g & 10g

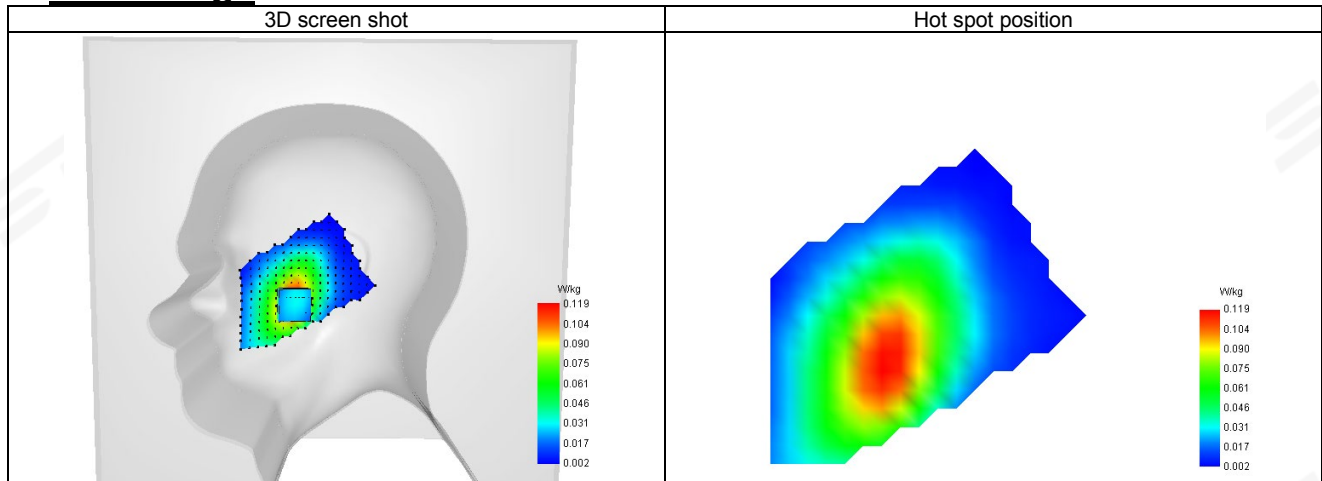
SAR 10g (W/Kg)	0.085
SAR 1g (W/Kg)	0.115
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.145	0.118	0.094	0.075	0.061	0.047	0.036



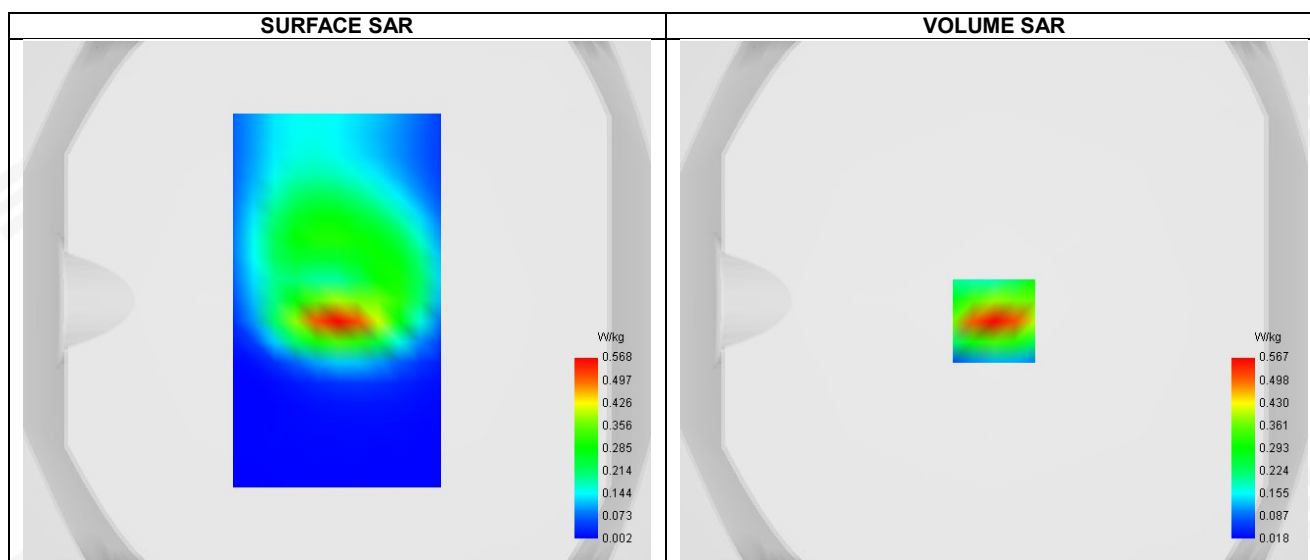
F. 3D Image





Plot 23: DUT: Smart Phone; EUT Model: RugKing 3 Pro

Test Date	2025-08-22
ConvF	1.48
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm,Complete
Phantom	Body
Device Position	Back Side
Band	LTE band 8
Signal	LTE (Crest factor: 1.0)
Frequency	910



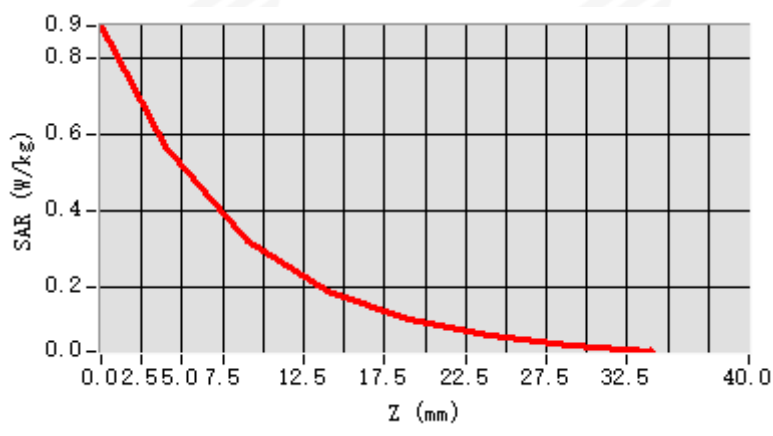
Maximum location: X=0.00, Y=-8.00 ; SAR Peak: 0.88 W/kg

D. SAR 1g & 10g

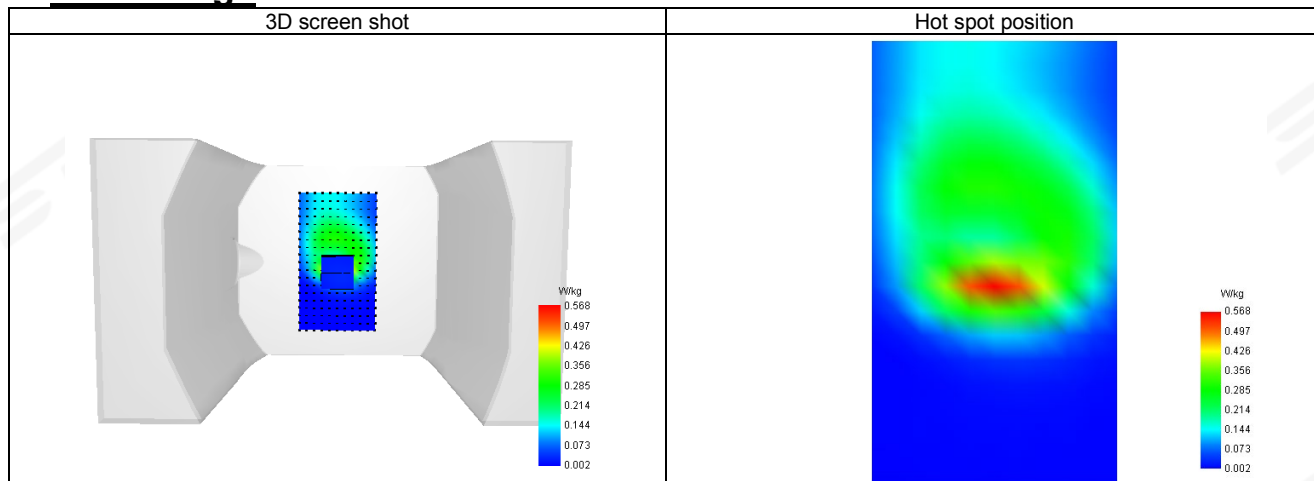
SAR 10g (W/Kg)	0.265
SAR 1g (W/Kg)	0.516
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	56.603450

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.885	0.567	0.321	0.191	0.117	0.073	0.048



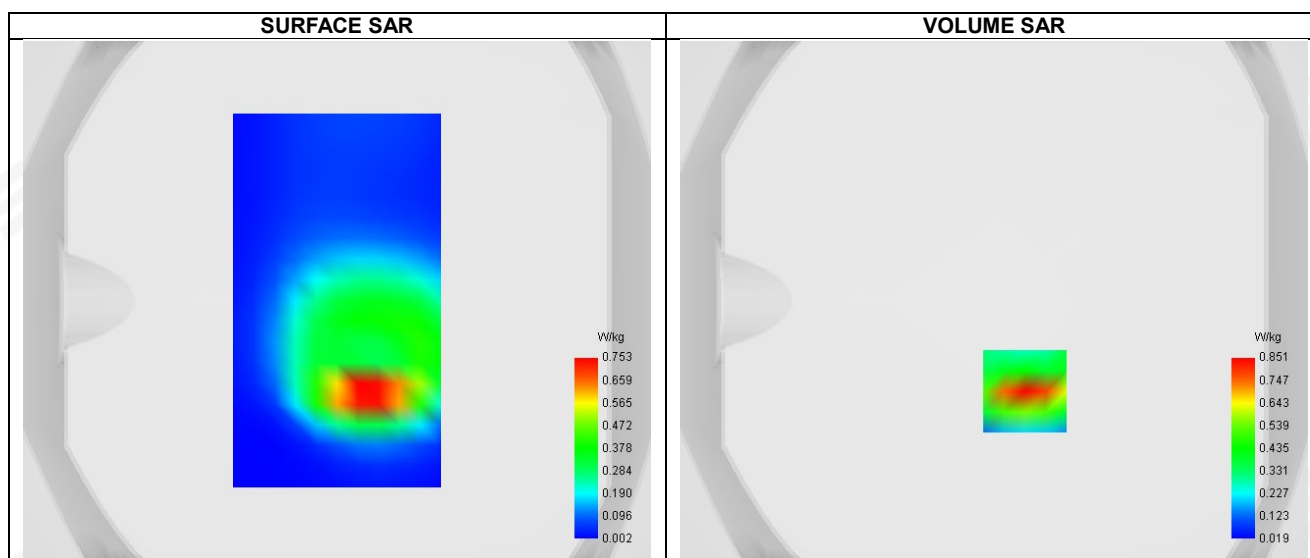
F. 3D Image





Plot 24: DUT: Smart Phone; EUT Model: RugKing 3 Pro

Test Date	2025-08-22
ConvF	1.48
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm,Complete
Phantom	Body
Device Position	Back Side
Band	LTE band 8
Signal	LTE (Crest factor: 1.0)
Frequency	910

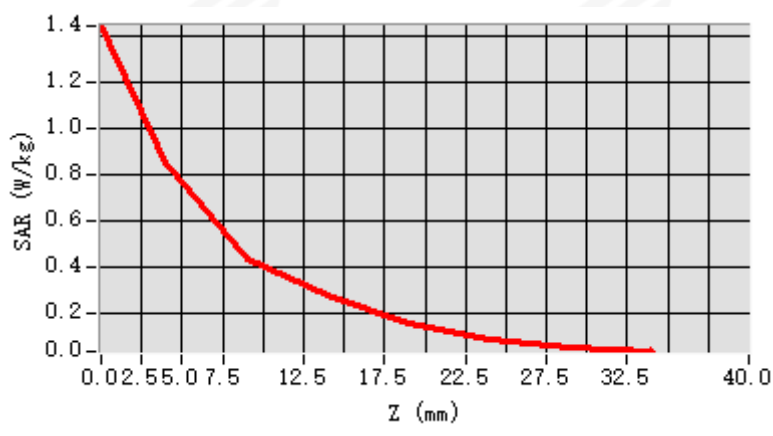


D. SAR 1g & 10g

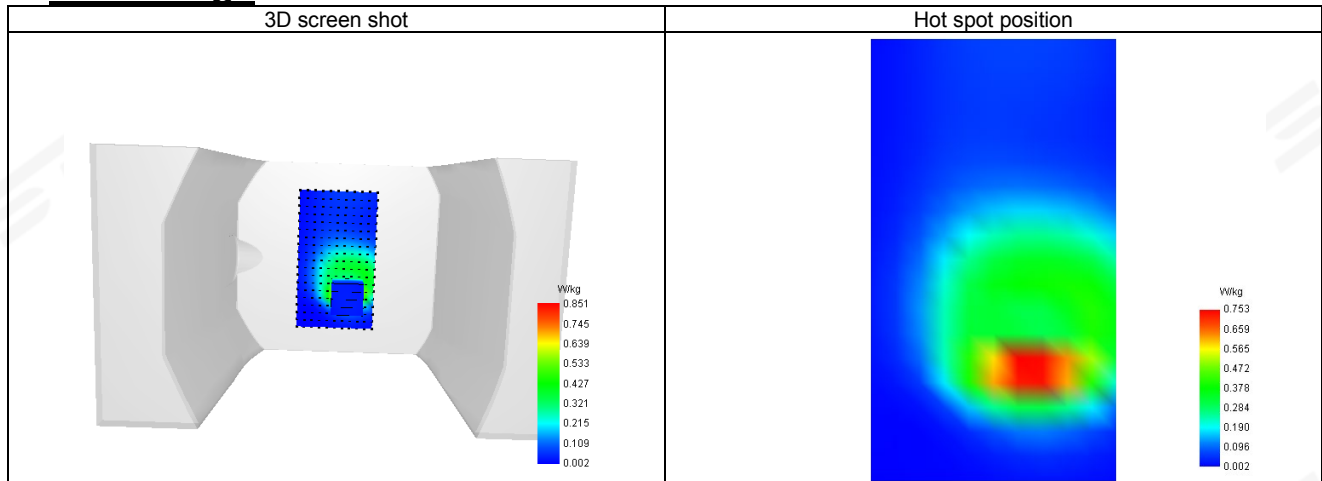
SAR 10g (W/Kg)	0.372
SAR 1g (W/Kg)	0.780
Horizontal validation criteria: minimum distance (mm)	11.313708
Vertical validation criteria: SAR ratio M2/M1 (%)	51.023779

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.439	0.851	0.434	0.275	0.159	0.092	0.054



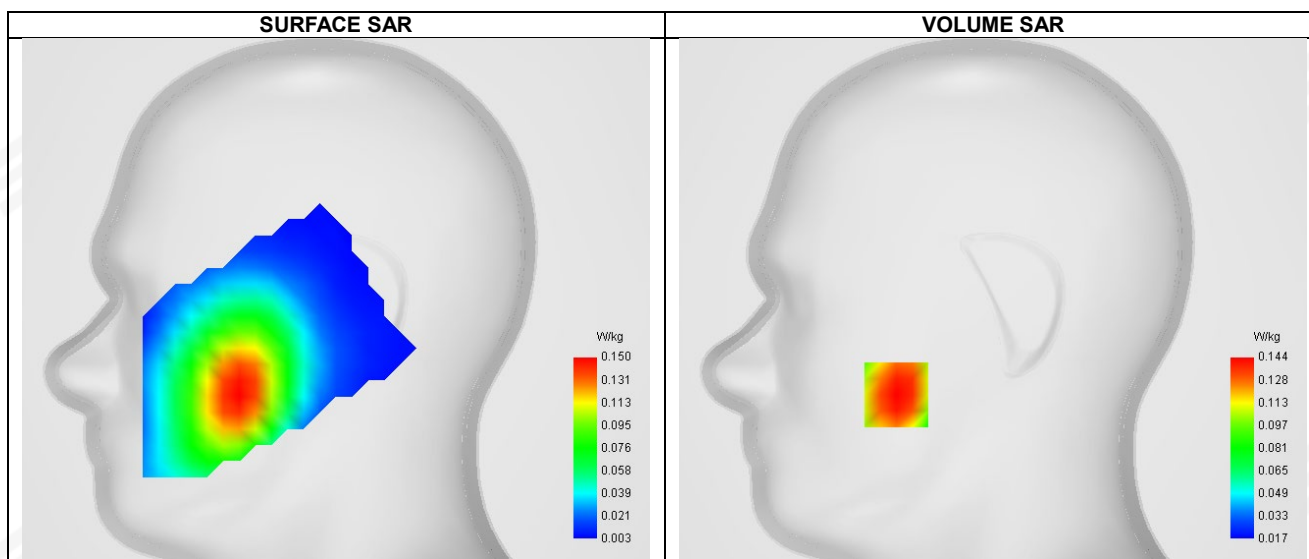
F. 3D Image





Plot 25: DUT: Smart Phone; EUT Model: RugKing 3 Pro

Test Date	2025-08-18
ConvF	1.44
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm,Complete
Phantom	Head
Device Position	Right Cheek
Band	LTE band 20
Signal	LTE (Crest factor: 1.0)
Frequency	842



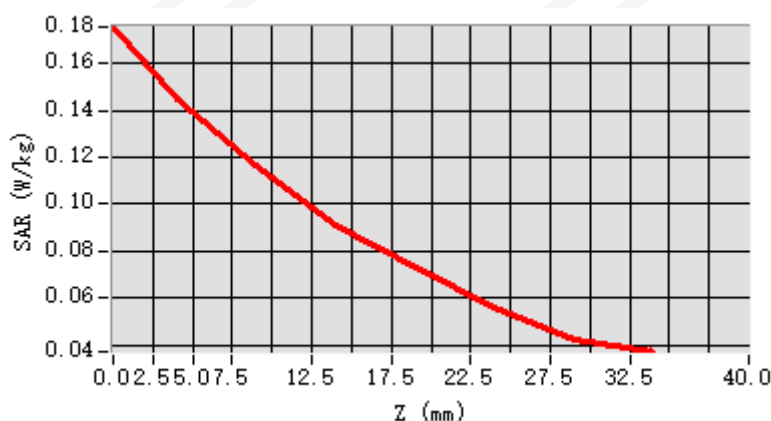
Maximum location: X=-48.00, Y=-47.00 ; SAR Peak: 0.18 W/kg

D. SAR 1g & 10g

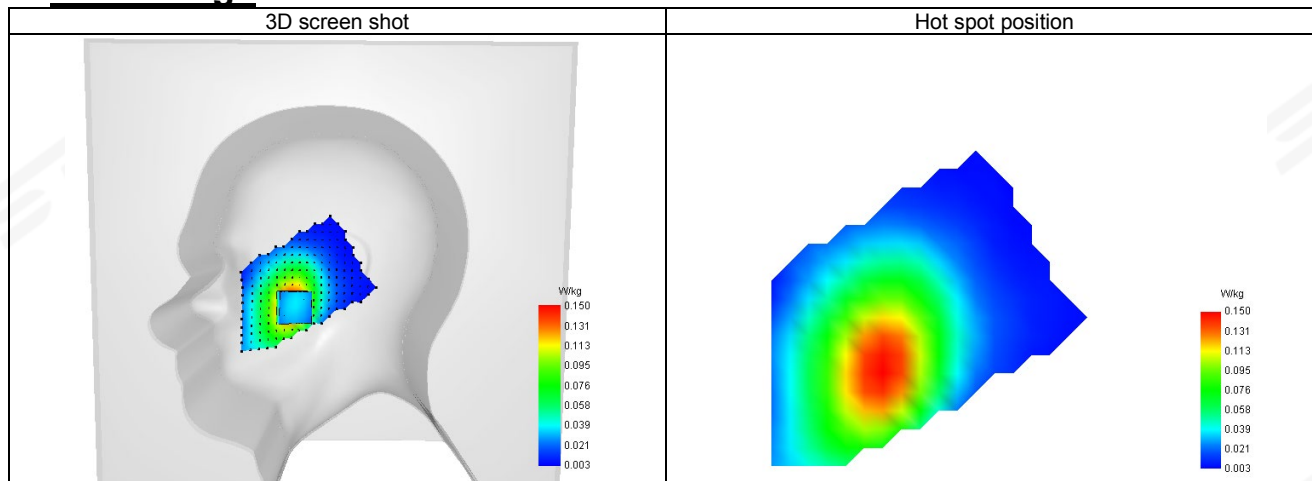
SAR 10g (W/Kg)	0.104
SAR 1g (W/Kg)	0.141
Horizontal validation criteria: minimum distance (mm)	12.167817
Vertical validation criteria: SAR ratio M2/M1 (%)	82.285714

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.175	0.144	0.116	0.091	0.073	0.056	0.043



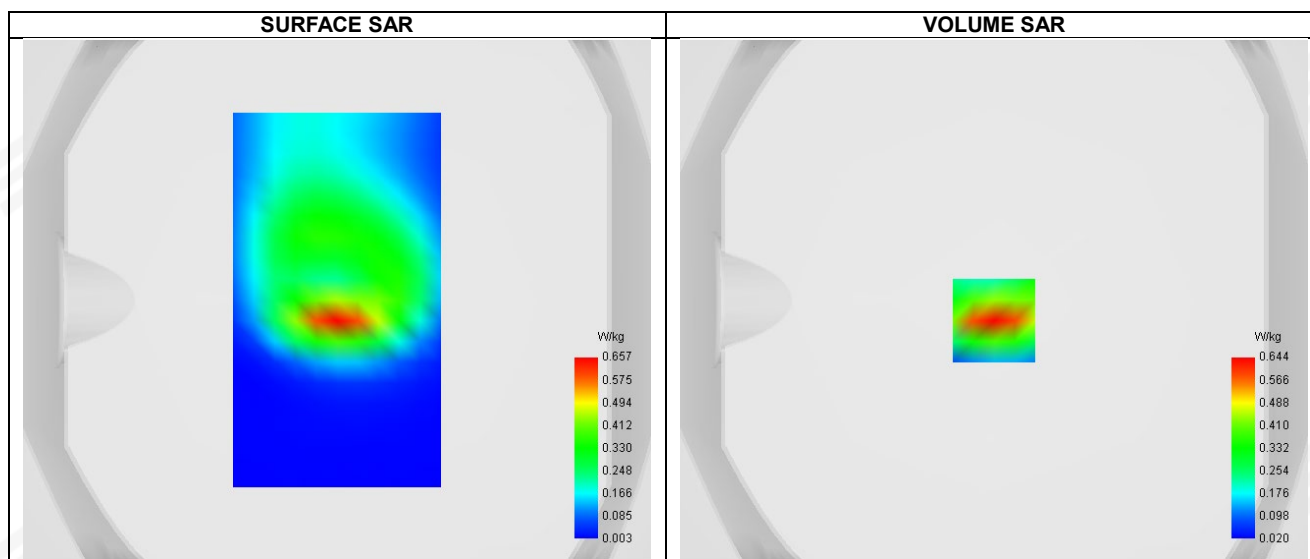
F. 3D Image





Plot 26: DUT: Smart Phone; EUT Model: RugKing 3 Pro

Test Date	2025-08-18
ConvF	1.44
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm,Complete
Phantom	Body
Device Position	Back Side
Band	LTE band 20
Signal	LTE (Crest factor: 1.0)
Frequency	842

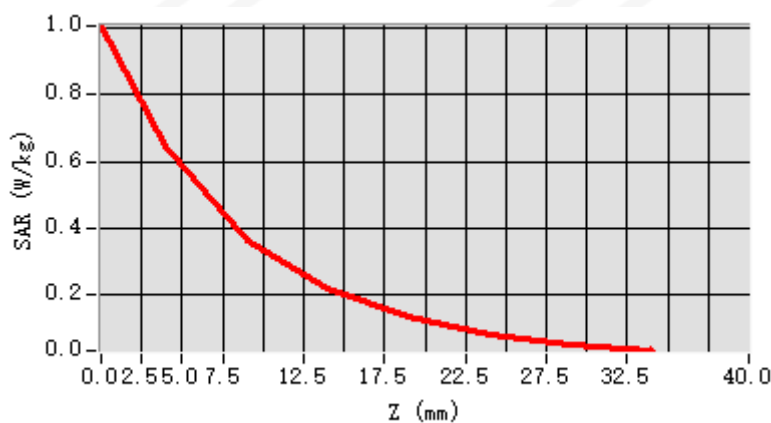


D. SAR 1g & 10g

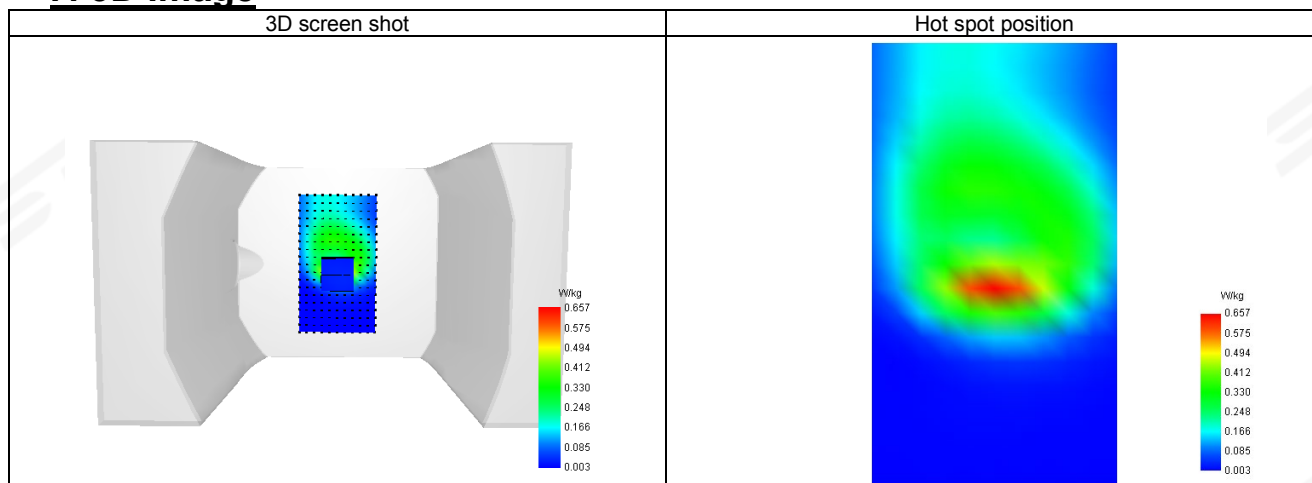
SAR 10g (W/Kg)	0.302
SAR 1g (W/Kg)	0.588
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	56.643573

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.004	0.644	0.365	0.219	0.133	0.084	0.054



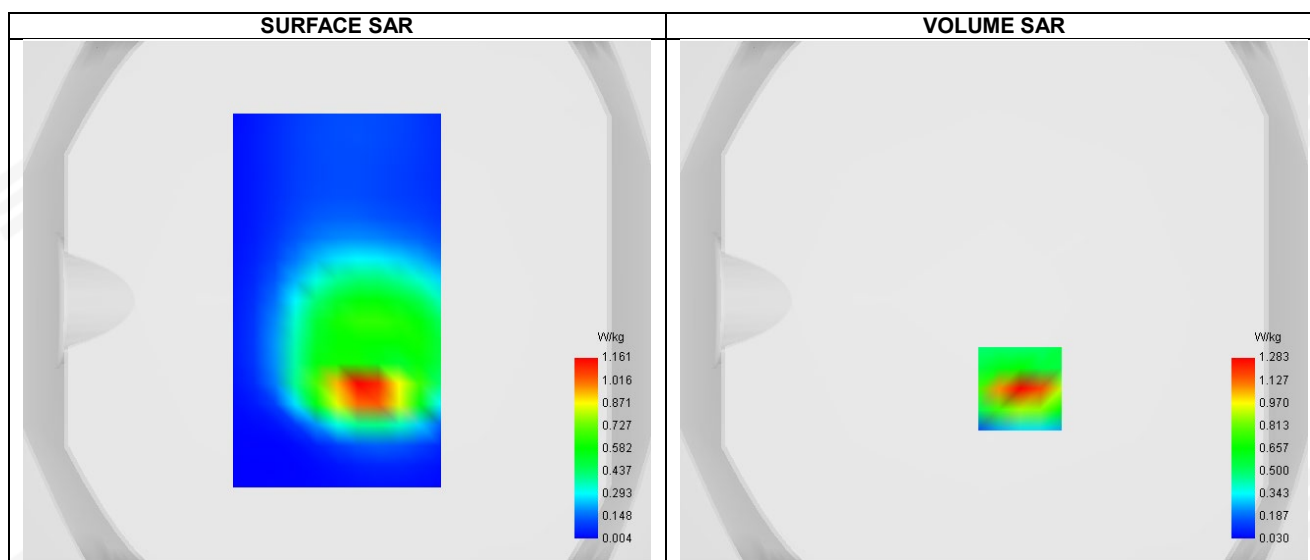
F. 3D Image





Plot 27: DUT: Smart Phone; EUT Model: RugKing 3 Pro

Test Date	2025-08-18
ConvF	1.44
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm,Complete
Phantom	Body
Device Position	Back Side
Band	LTE band 20
Signal	LTE (Crest factor: 1.0)
Frequency	842



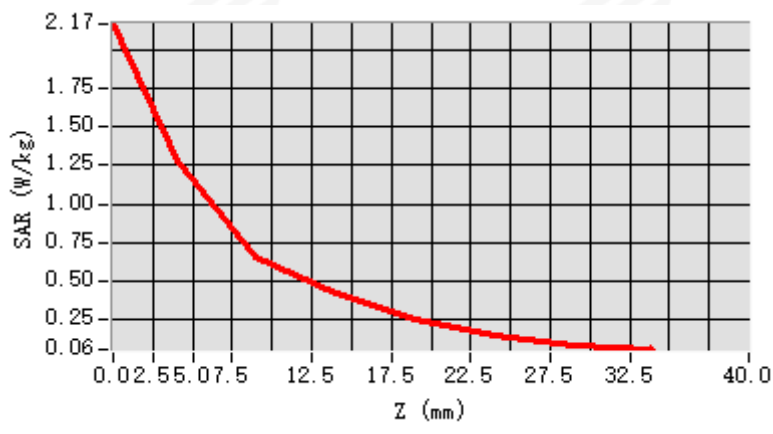
Maximum location: X=10.00, Y=-34.00 ; SAR Peak: 2.16 W/kg

D. SAR 1g & 10g

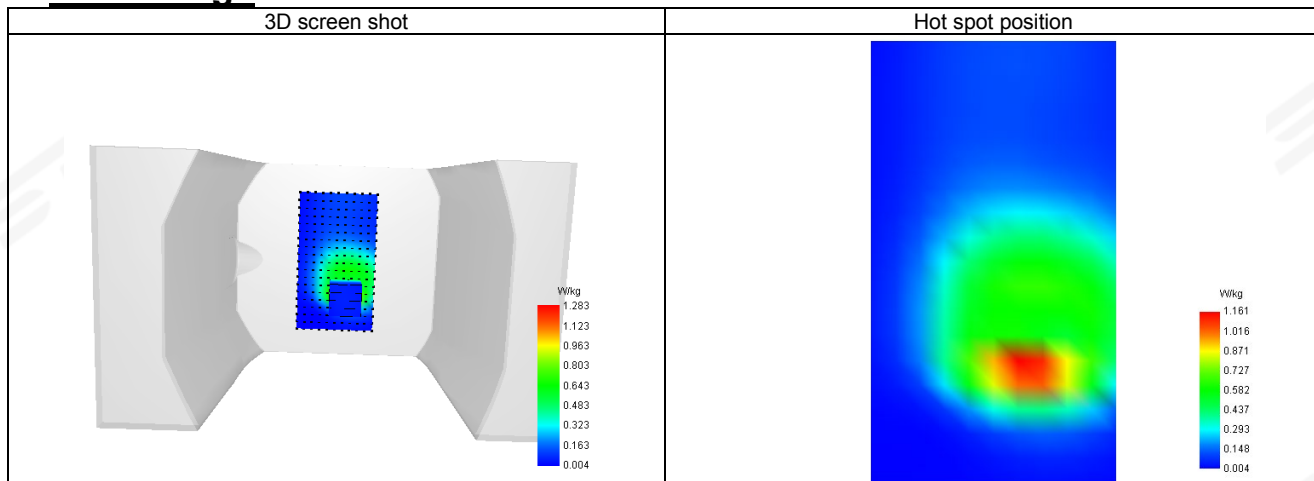
SAR 10g (W/Kg)	0.566
SAR 1g (W/Kg)	1.180
Horizontal validation criteria: minimum distance (mm)	11.313708
Vertical validation criteria: SAR ratio M2/M1 (%)	51.325476

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	2.167	1.283	0.659	0.424	0.249	0.146	0.086

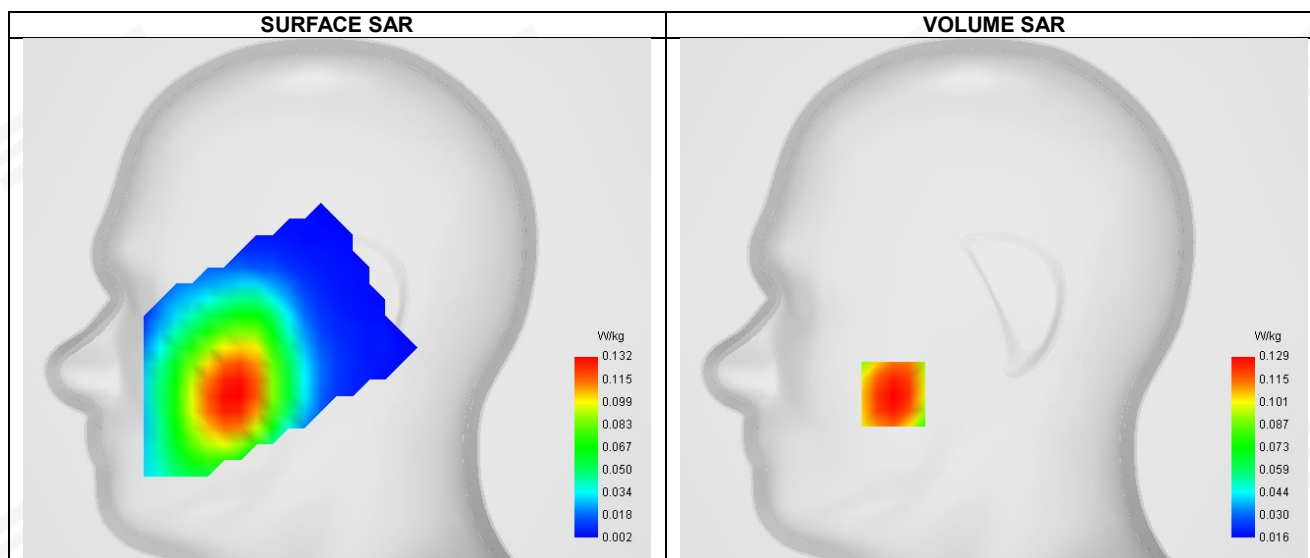


F. 3D Image



Plot 28: DUT: Smart Phone; EUT Model: RugKing 3 Pro

Test Date	2025-08-18
ConvF	1.56
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm,Complete
Phantom	Head
Device Position	Right Cheek
Band	LTE band 28
Signal	LTE (Crest factor: 1.0)
Frequency	713



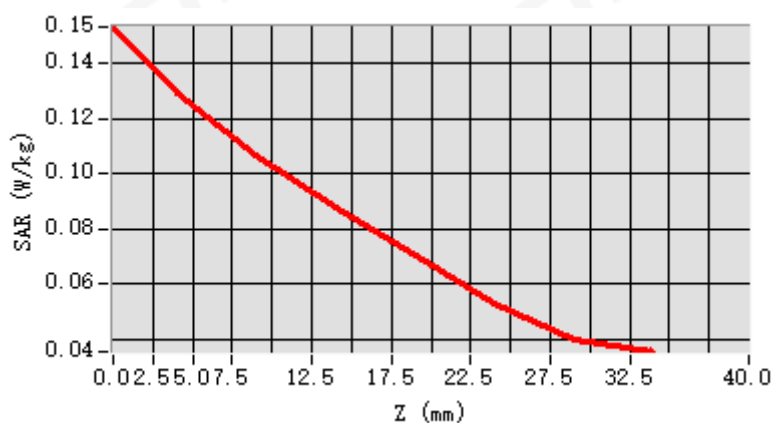
Maximum location: X=-50.00, Y=-47.00 ; SAR Peak: 0.16 W/kg

D. SAR 1g & 10g

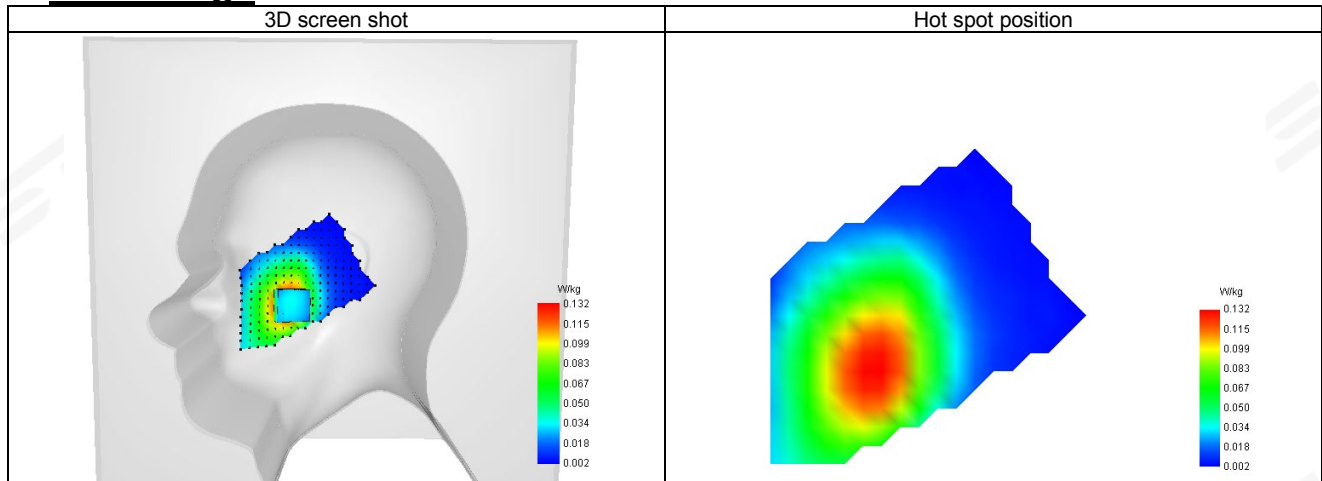
SAR 10g (W/Kg)	0.096
SAR 1g (W/Kg)	0.127
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.153	0.129	0.106	0.088	0.070	0.053	0.040



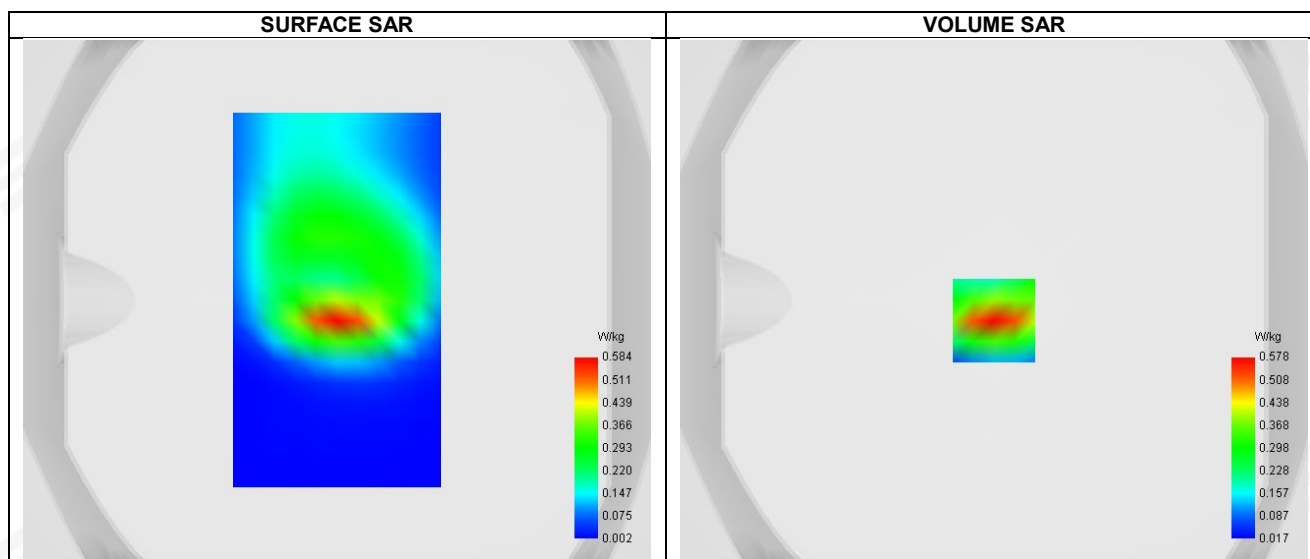
F. 3D Image





Plot 29: DUT: Smart Phone; EUT Model: RugKing 3 Pro

Test Date	2025-08-18
ConvF	1.56
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm,Complete
Phantom	Body
Device Position	Back Side
Band	LTE band 28
Signal	LTE (Crest factor: 1.0)
Frequency	713

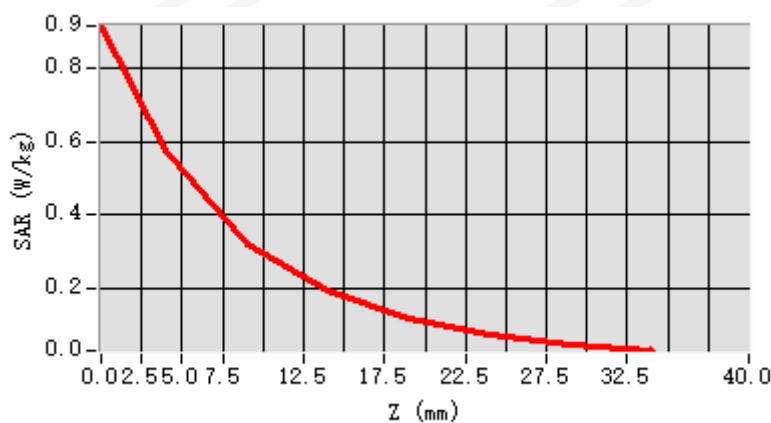


D. SAR 1g & 10g

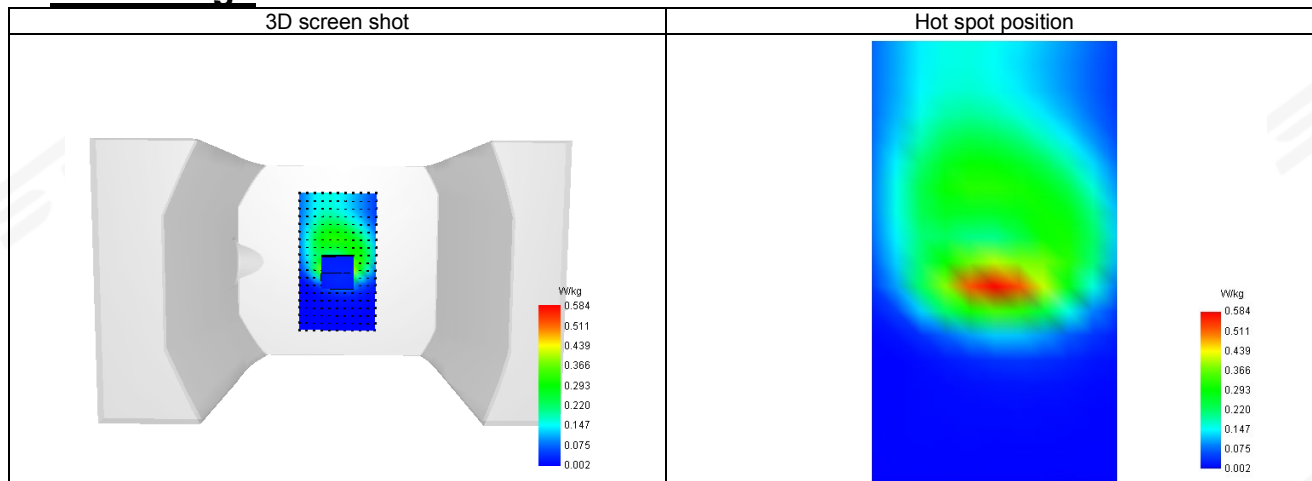
SAR 10g (W/Kg)	0.269
SAR 1g (W/Kg)	0.529
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	55.526806

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.917	0.578	0.321	0.193	0.118	0.072	0.047



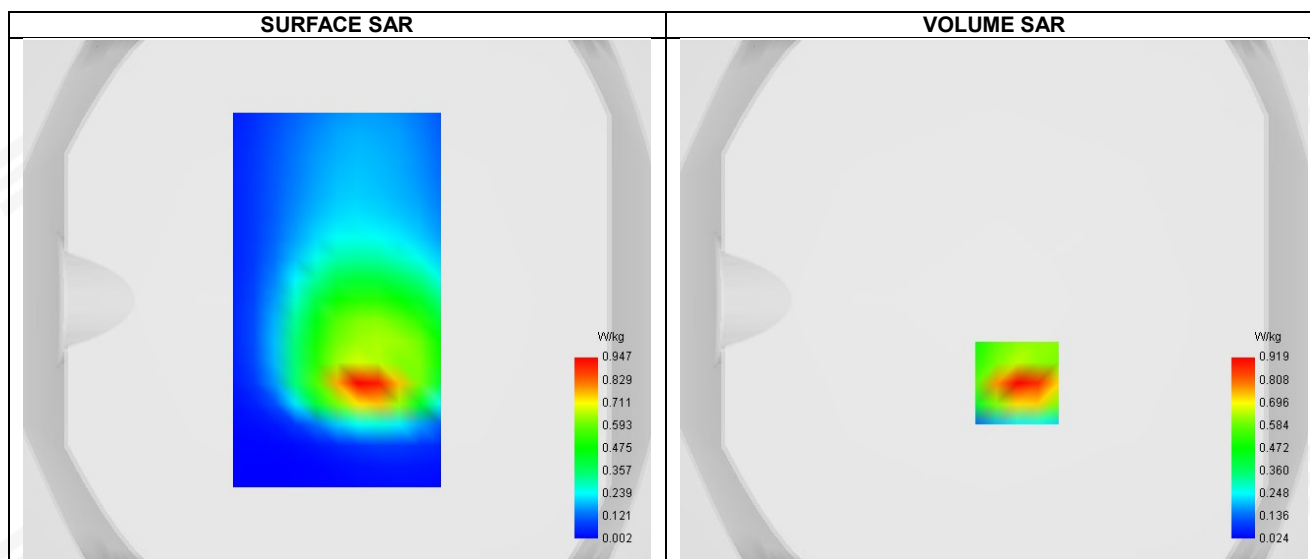
F. 3D Image





Plot 30: DUT: Smart Phone; EUT Model: RugKing 3 Pro

Test Date	2025-08-18
ConvF	1.56
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm,Complete
Phantom	Body
Device Position	Back Side
Band	LTE band 28
Signal	LTE (Crest factor: 1.0)
Frequency	713

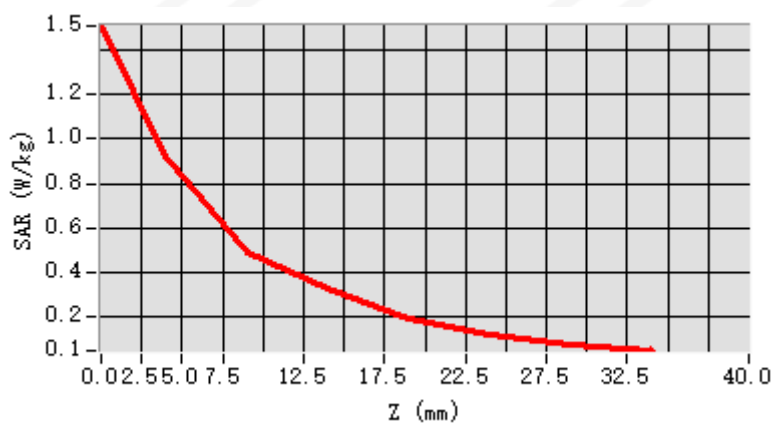


D. SAR 1g & 10g

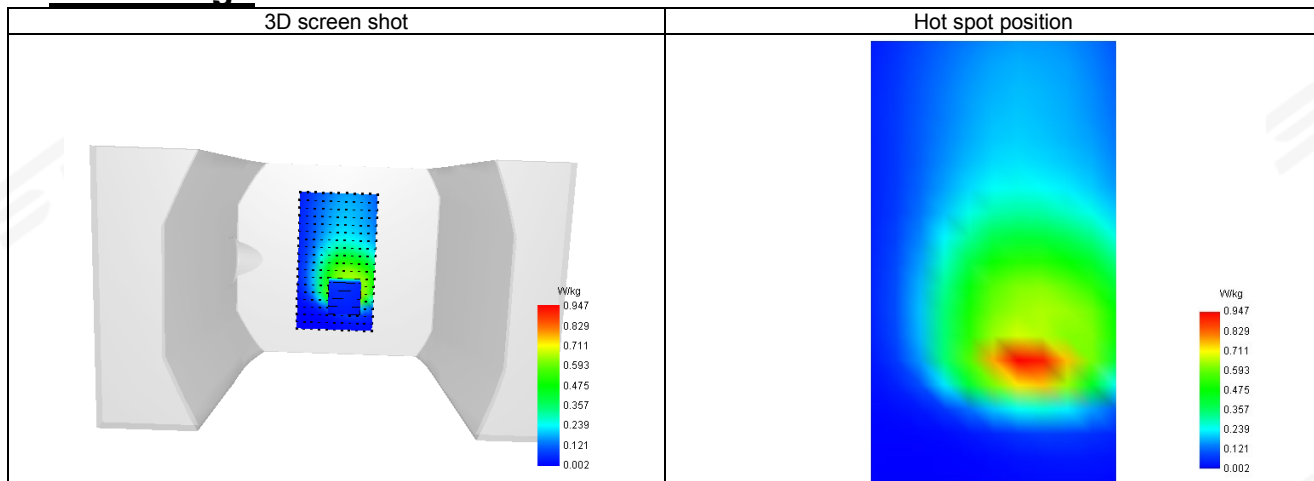
SAR 10g (W/Kg)	0.445
SAR 1g (W/Kg)	0.885
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	53.953285

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.507	0.919	0.496	0.328	0.199	0.121	0.074



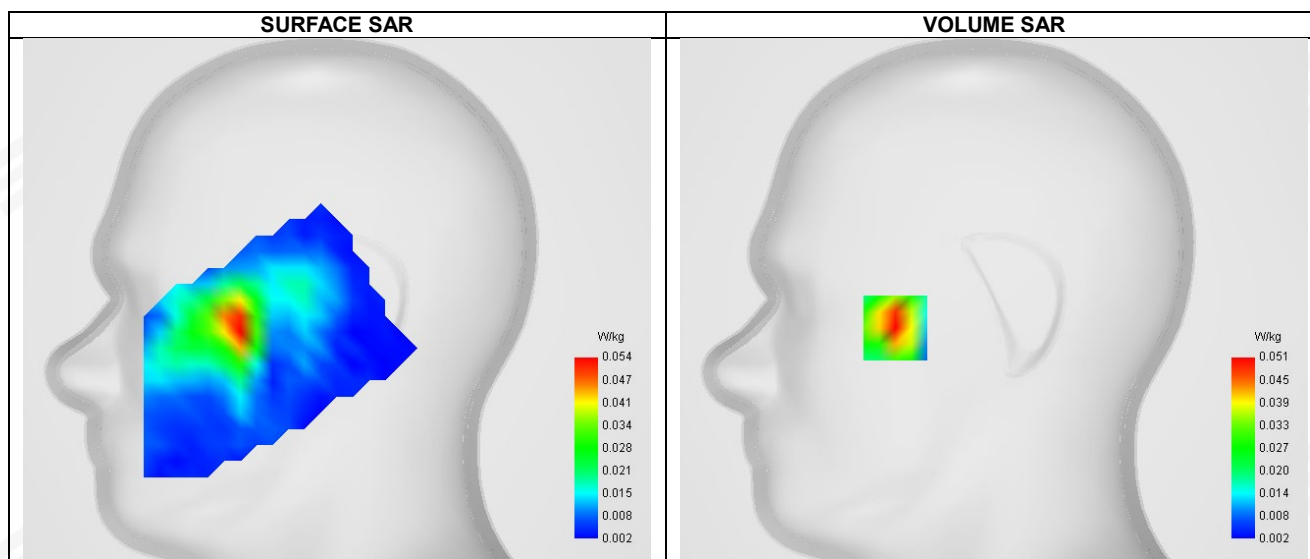
F. 3D Image





Plot 31: DUT: Smart Phone; EUT Model: RugKing 3 Pro

Test Date	2025-08-26
ConvF	1.74
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm,Complete
Phantom	Head
Device Position	Right Cheek
Band	LTE band 38
Signal	LTE (Crest factor: 1.0)
Frequency	2580

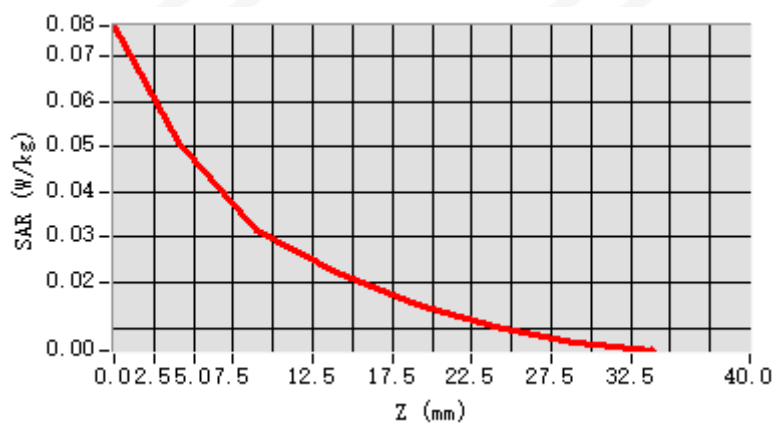


D. SAR 1g & 10g

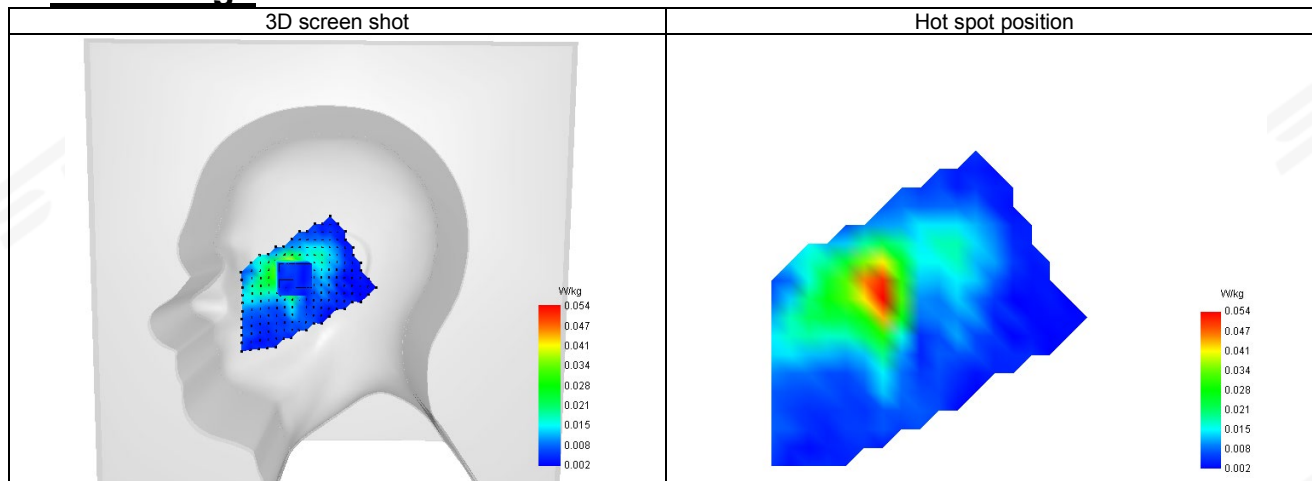
SAR 10g (W/Kg)	0.028
SAR 1g (W/Kg)	0.049
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	61.737159

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.077	0.051	0.031	0.022	0.015	0.010	0.007



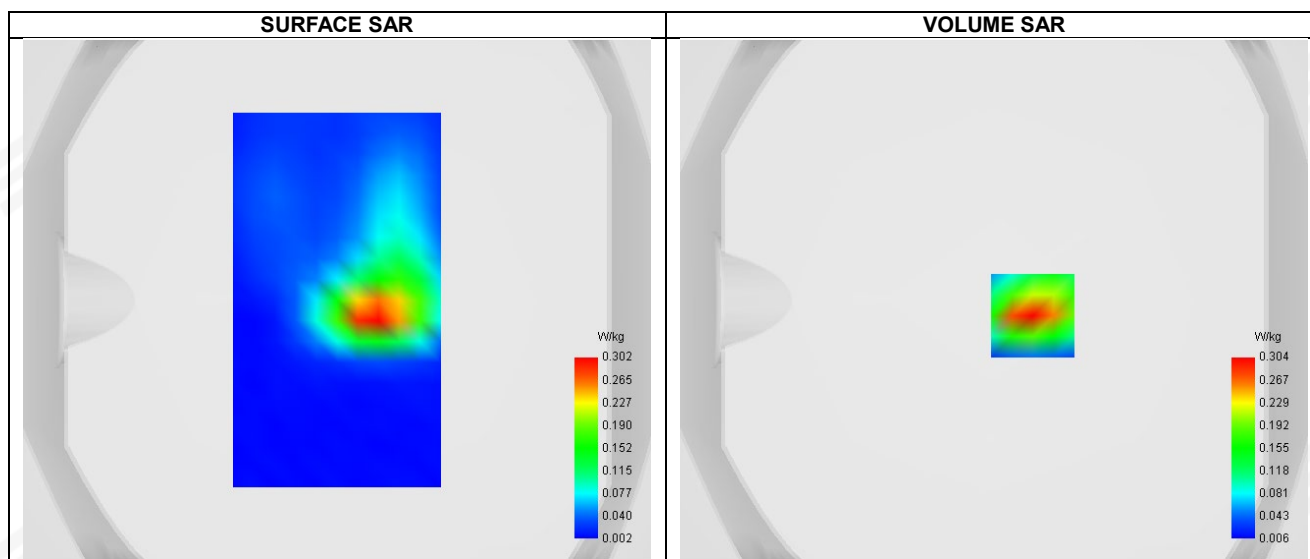
F. 3D Image





Plot 32: DUT: Smart Phone; EUT Model: RugKing 3 Pro

Test Date	2025-08-26
ConvF	1.74
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm,Complete
Phantom	Body
Device Position	Back Side
Band	LTE band 38
Signal	LTE (Crest factor: 1.0)
Frequency	2580



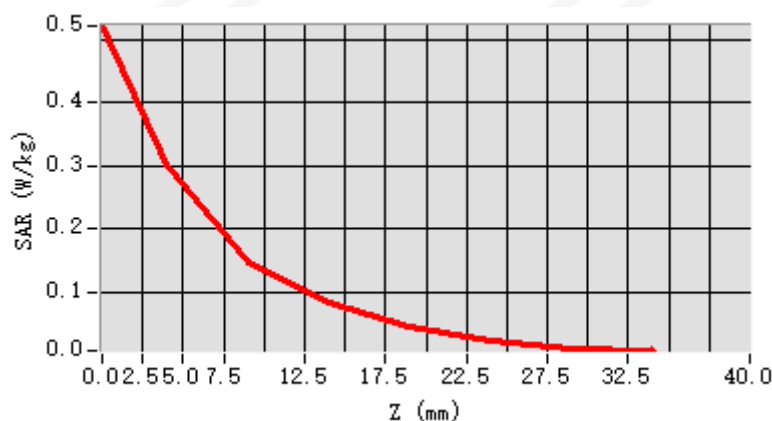
Maximum location: X=15.00, Y=-6.00 ; SAR Peak: 0.52 W/kg

D. SAR 1g & 10g

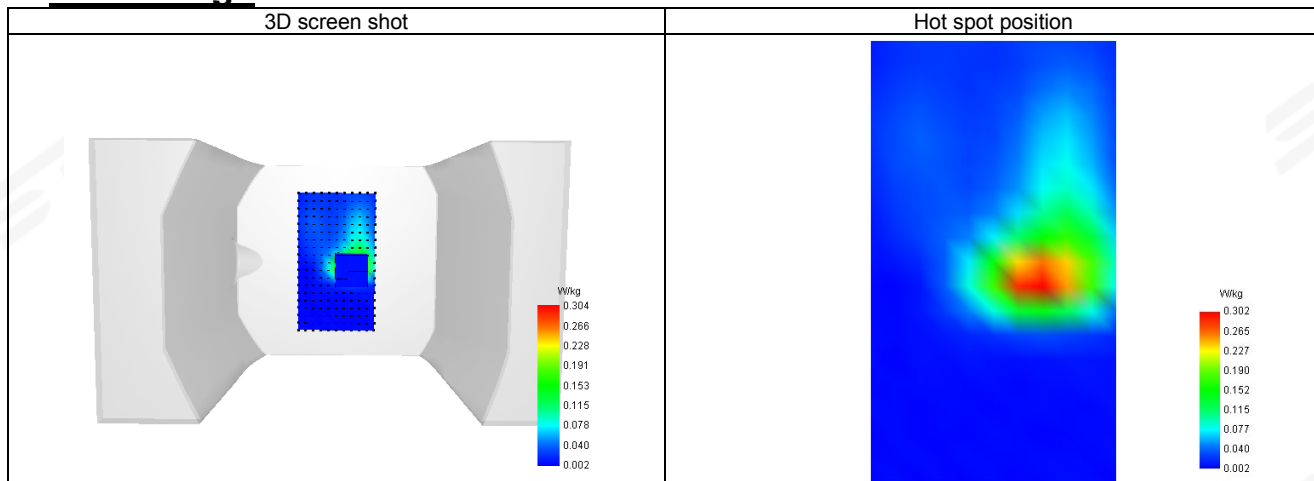
SAR 10g (W/Kg)	0.131
SAR 1g (W/Kg)	0.284
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	48.880492

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.521	0.304	0.148	0.085	0.046	0.024	0.013



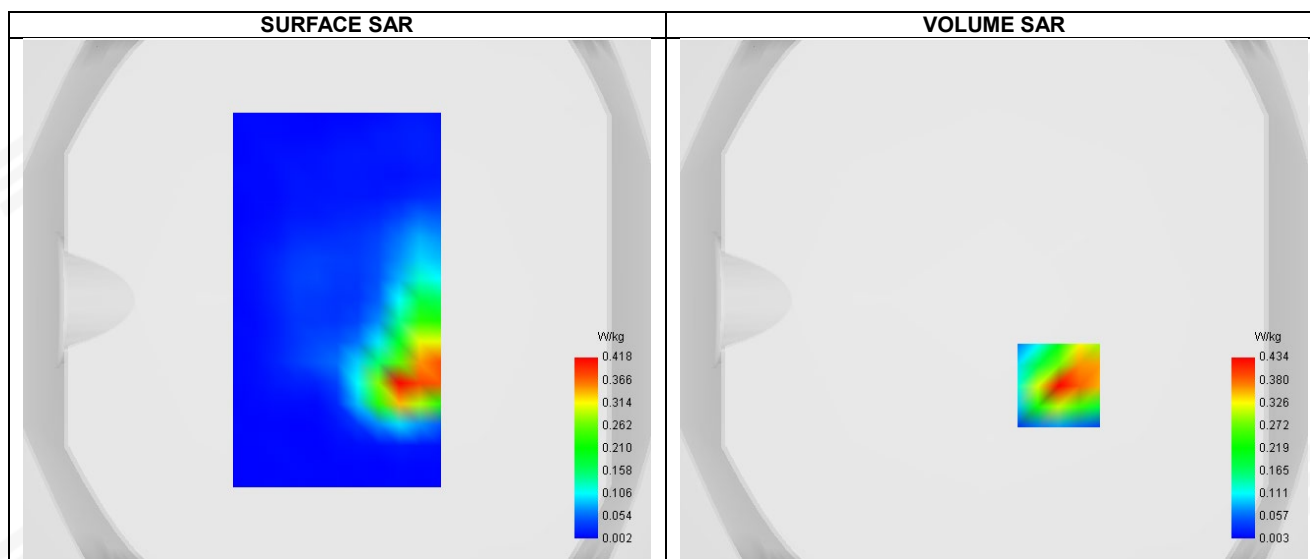
F. 3D Image





Plot 33: DUT: Smart Phone; EUT Model: RugKing 3 Pro

Test Date	2025-08-26
ConvF	1.74
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm,Complete
Phantom	Body
Device Position	Back Side
Band	LTE band 38
Signal	LTE (Crest factor: 1.0)
Frequency	2580



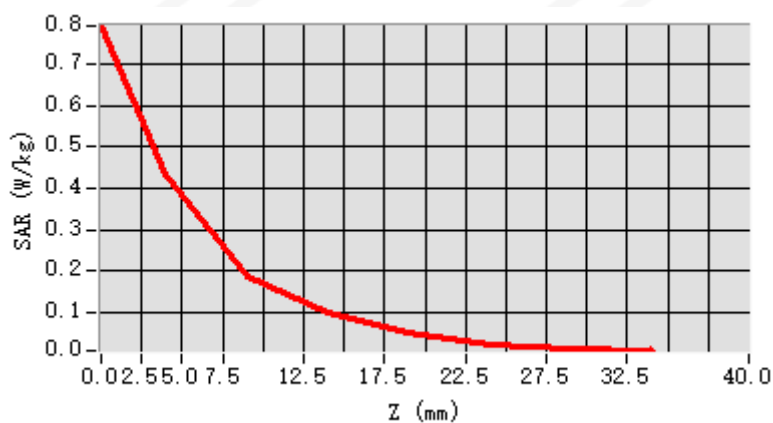
Maximum location: X=25.00, Y=-33.00 ; SAR Peak: 0.78 W/kg

D. SAR 1g & 10g

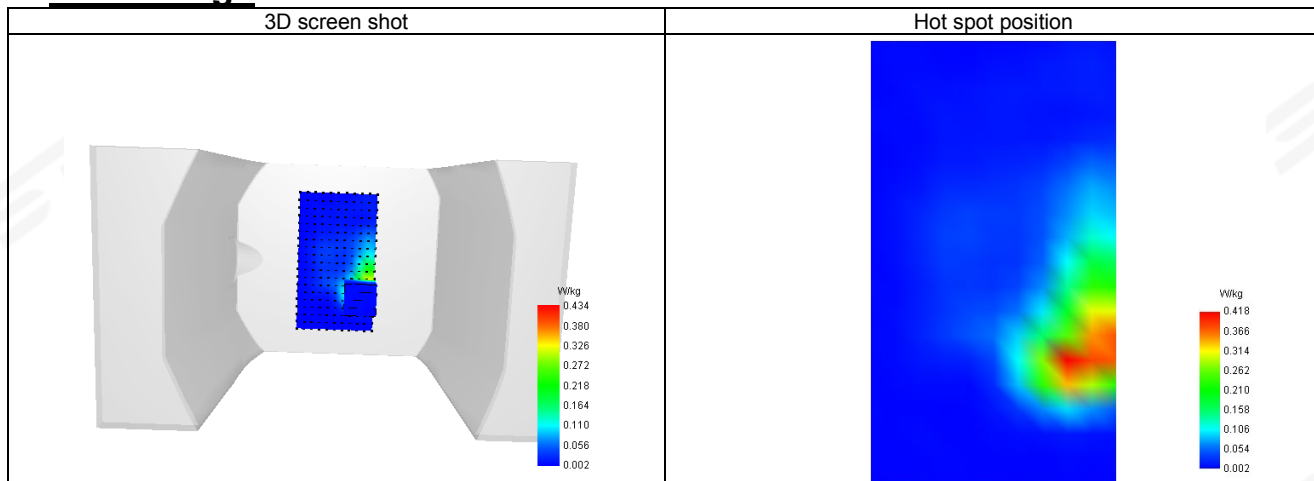
SAR 10g (W/Kg)	0.171
SAR 1g (W/Kg)	0.404
Horizontal validation criteria: minimum distance (mm)	11.313708
Vertical validation criteria: SAR ratio M2/M1 (%)	44.231268

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.791	0.434	0.189	0.102	0.050	0.025	0.012

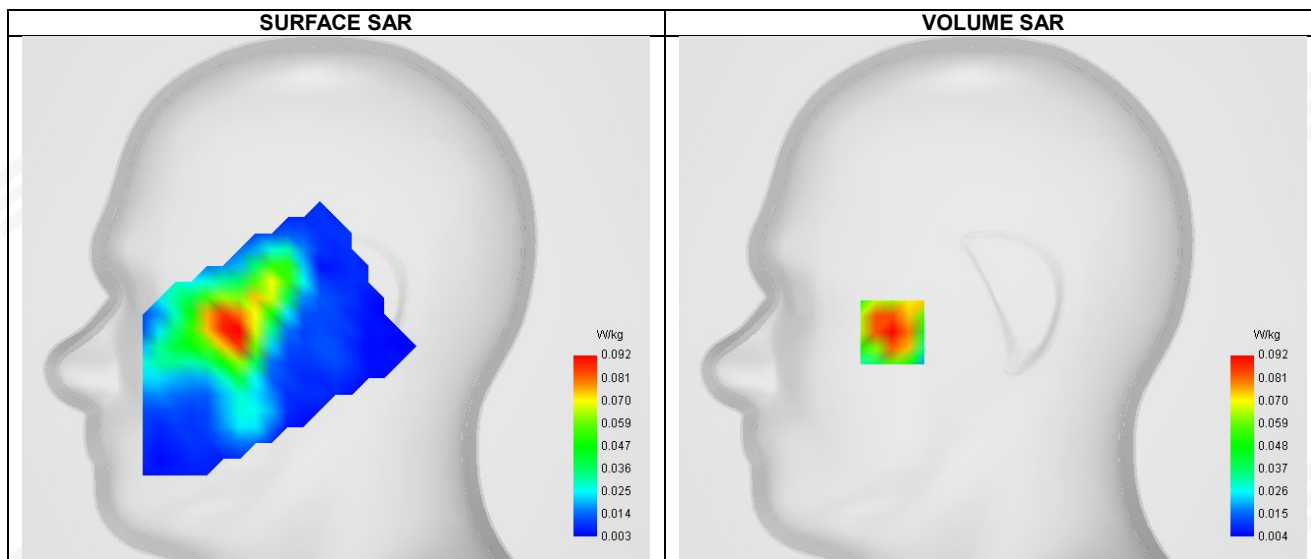


F. 3D Image



Plot 34: DUT: Smart Phone; EUT Model: RugKing 3 Pro

Test Date	2025-08-23
ConvF	1.79
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm,Complete
Phantom	Head
Device Position	Right Cheek
Band	LTE band 40
Signal	LTE (Crest factor: 1.0)
Frequency	2390



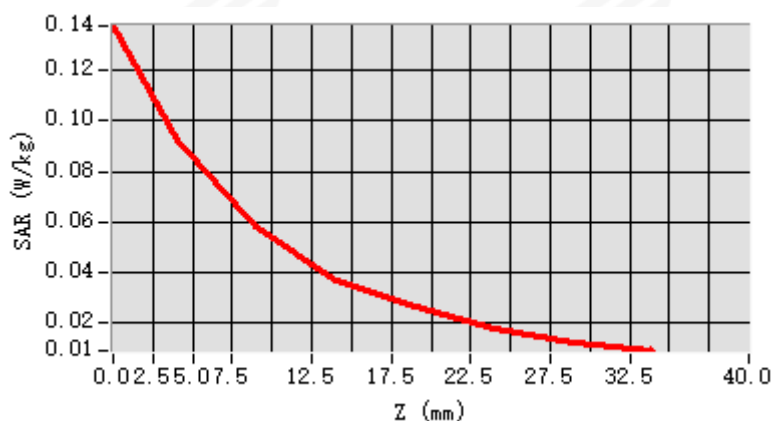
Maximum location: X=-50.00, Y=-17.00 ; SAR Peak: 0.14 W/kg

D. SAR 1g & 10g

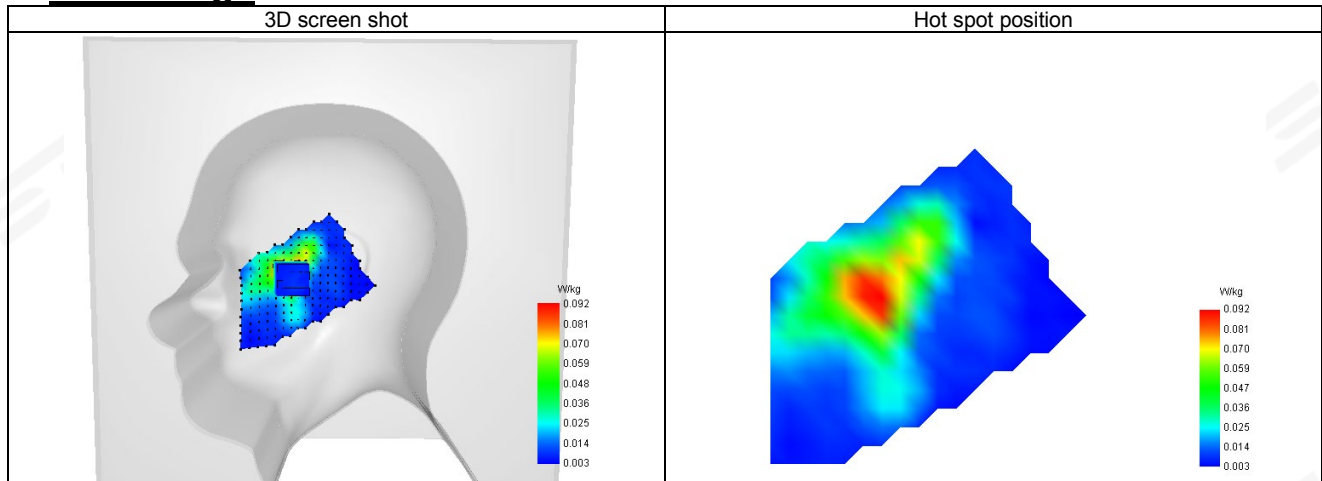
SAR 10g (W/Kg)	0.050
SAR 1g (W/Kg)	0.088
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	62.678511

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.138	0.092	0.058	0.037	0.026	0.018	0.012



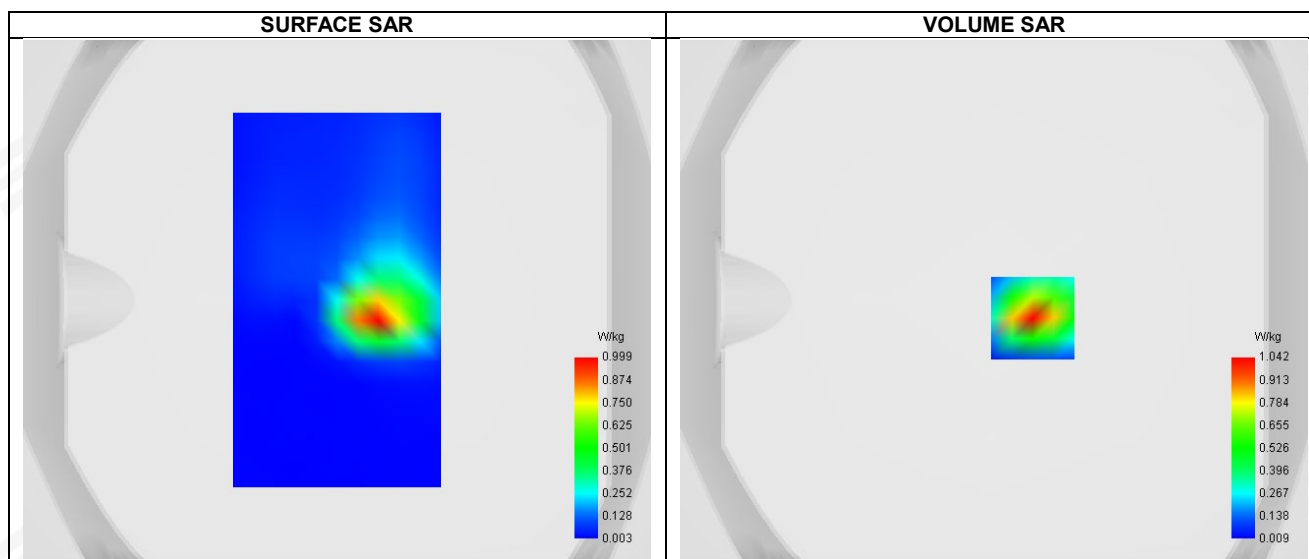
F. 3D Image





Plot 35: DUT: Smart Phone; EUT Model: RugKing 3 Pro

Test Date	2025-08-23
ConvF	1.79
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm,Complete
Phantom	Body
Device Position	Back Side
Band	LTE band 40
Signal	LTE (Crest factor: 1.0)
Frequency	2390

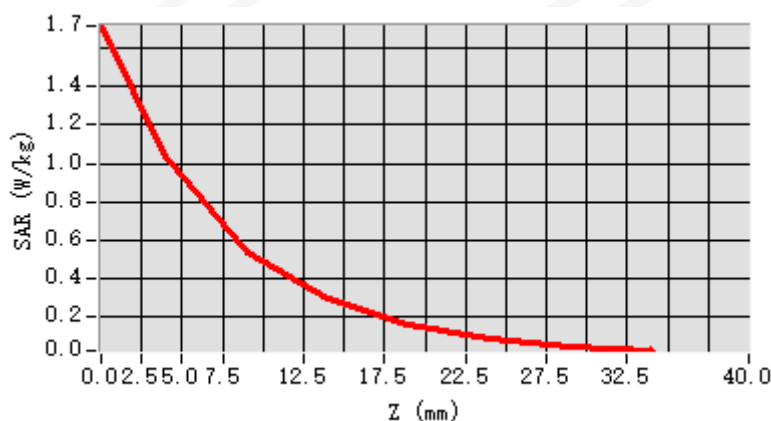


D. SAR 1g & 10g

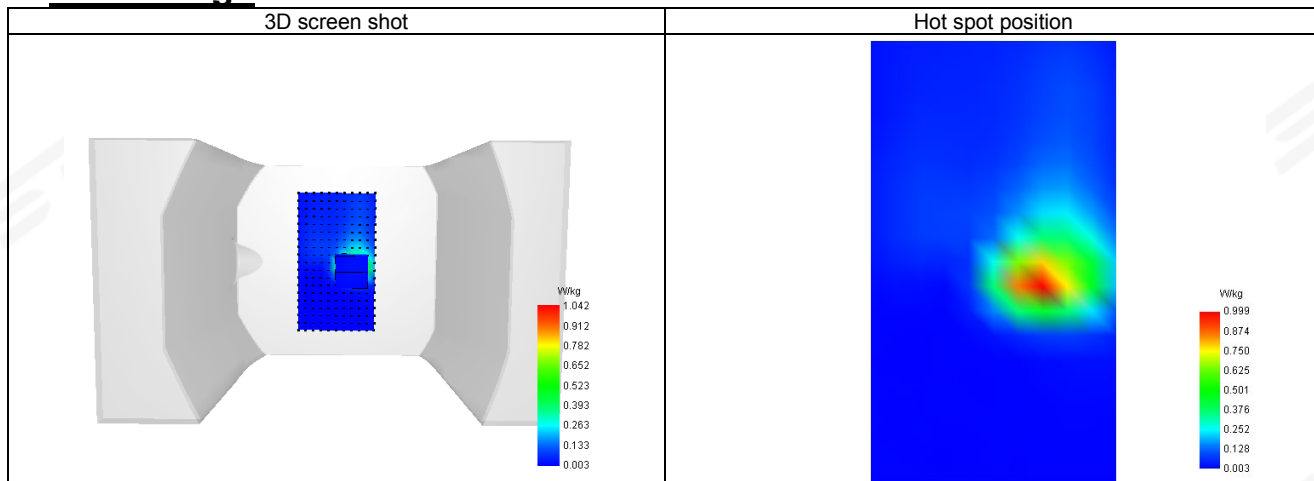
SAR 10g (W/Kg)	0.416
SAR 1g (W/Kg)	0.939
Horizontal validation criteria: minimum distance (mm)	11.313708
Vertical validation criteria: SAR ratio M2/M1 (%)	51.564484

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.716	1.042	0.537	0.294	0.157	0.084	0.045



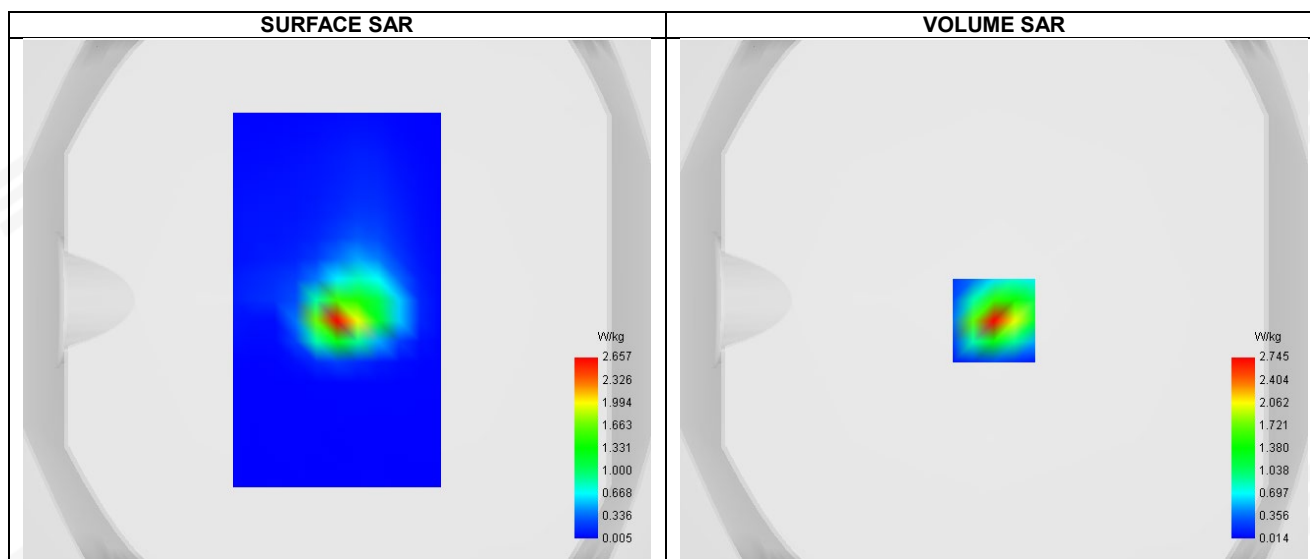
F. 3D Image





Plot 36: DUT: Smart Phone; EUT Model: RugKing 3 Pro

Test Date	2025-08-23
ConvF	1.79
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm,Complete
Phantom	Body
Device Position	Back Side
Band	LTE band 40
Signal	LTE (Crest factor: 1.0)
Frequency	2390

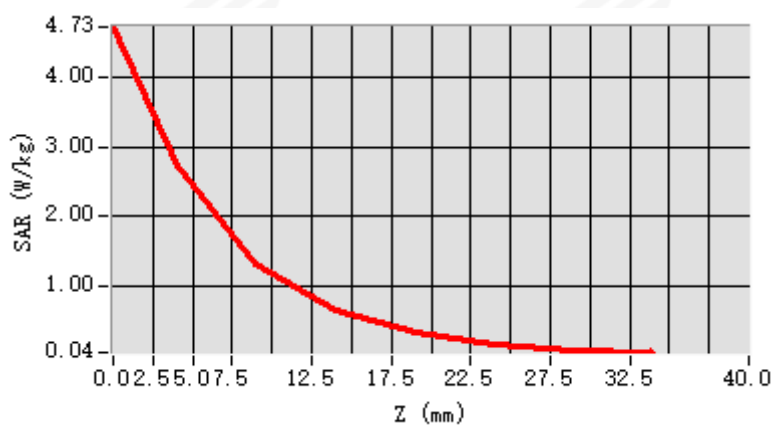


D. SAR 1g & 10g

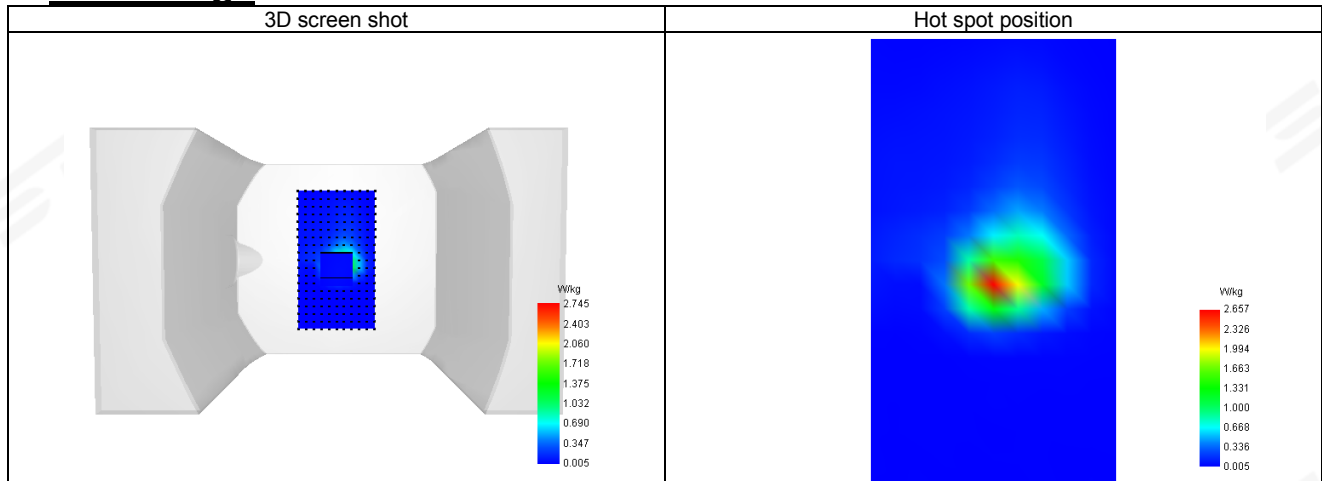
SAR 10g (W/Kg)	0.933
SAR 1g (W/Kg)	2.367
Horizontal validation criteria: minimum distance (mm)	8.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	47.592229

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	4.731	2.745	1.307	0.660	0.325	0.160	0.079

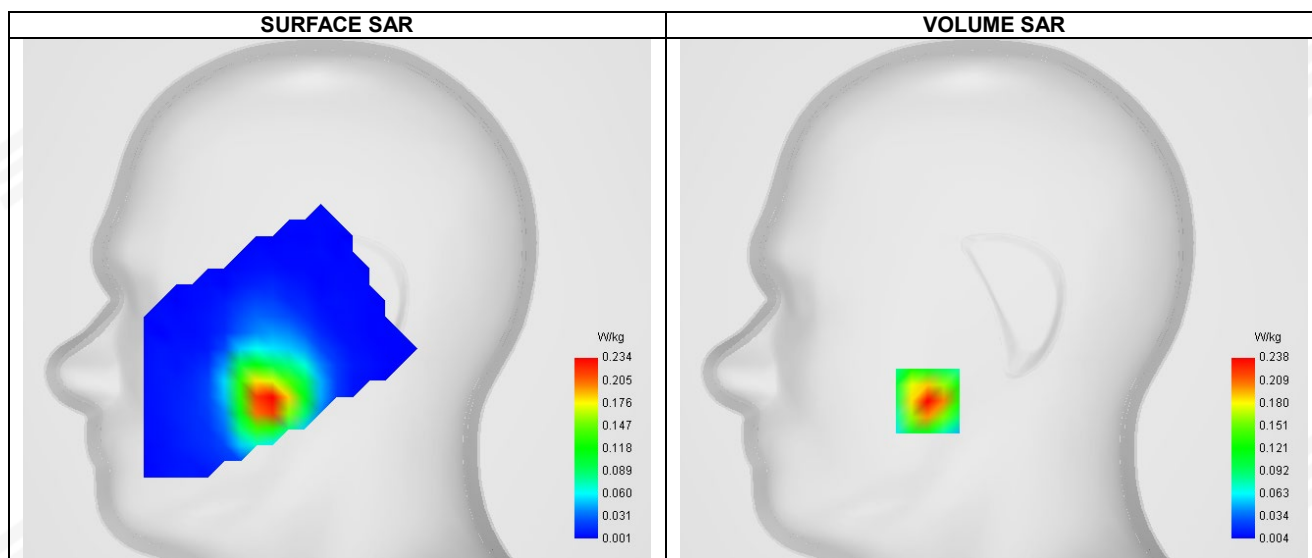


F. 3D Image



Plot 37: DUT: Smart Phone; EUT Model: RugKing 3 Pro

Test Date	2025-08-23
ConvF	1.80
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm,Complete
Phantom	Head
Device Position	Right Cheek
Band	2.4GHz WLAN
Signal	IEEE802.b (Crest factor: 1.0)
Frequency	2472

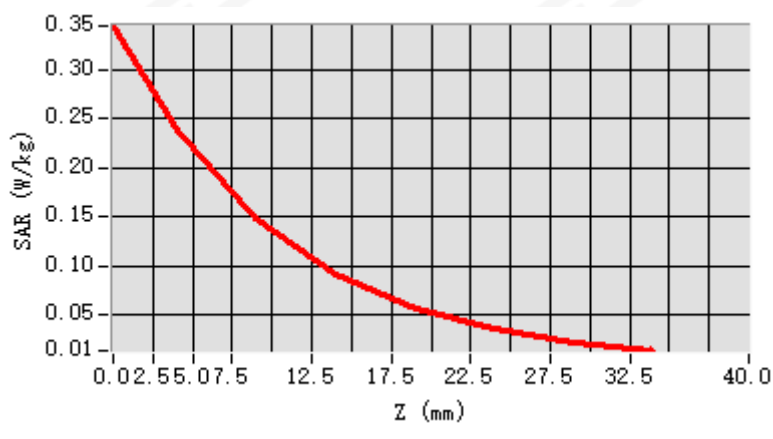


D. SAR 1g & 10g

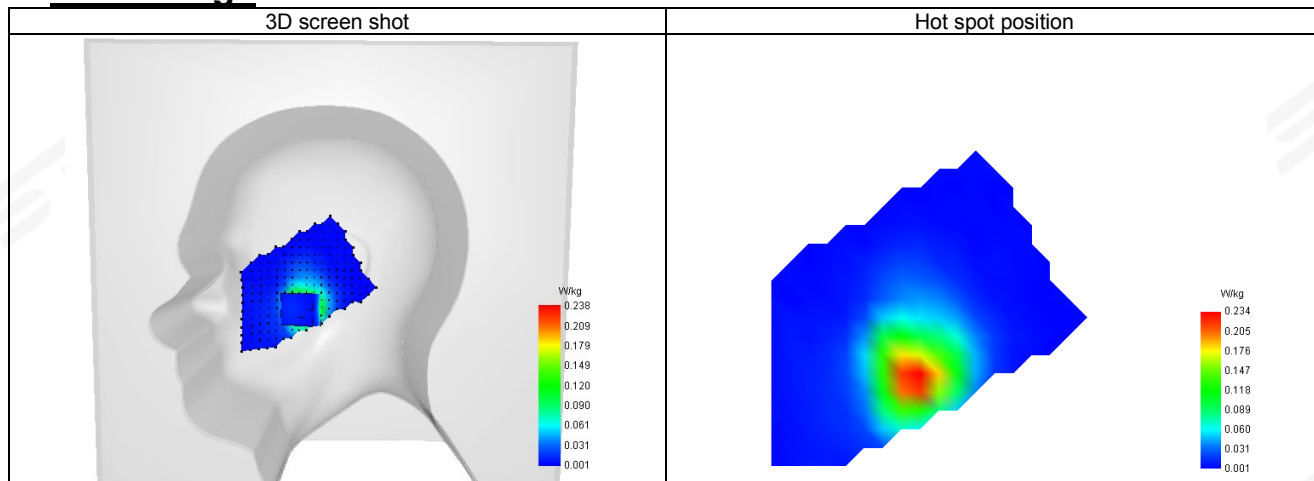
SAR 10g (W/Kg)	0.121
SAR 1g (W/Kg)	0.222
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	62.009738

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.345	0.238	0.148	0.091	0.057	0.035	0.022



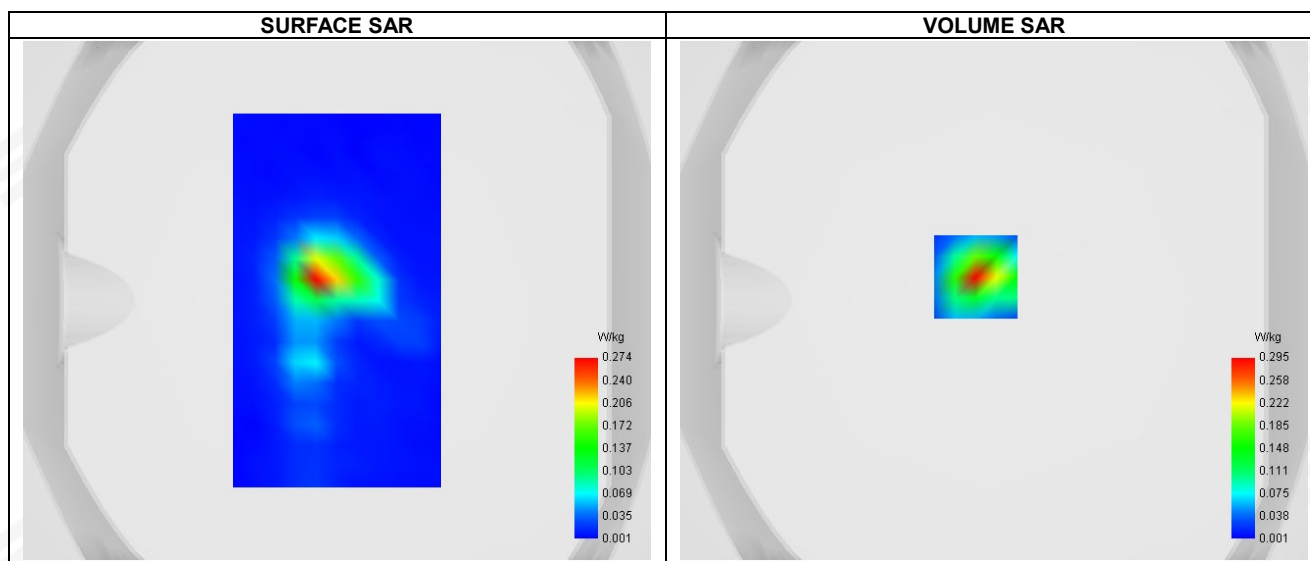
F. 3D Image





Plot 38: DUT: Smart Phone; EUT Model: RugKing 3 Pro

Test Date	2025-08-23
ConvF	1.80
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm,Complete
Phantom	Body
Device Position	Back Side
Band	2.4GHz WLAN
Signal	IEEE802.b (Crest factor: 1.0)
Frequency	2472



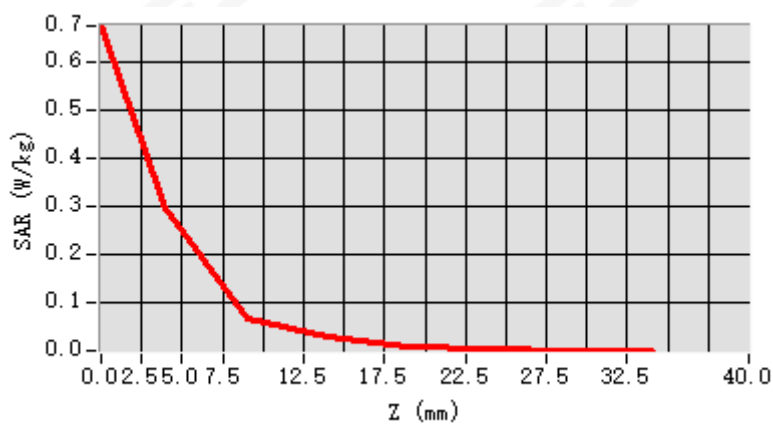
Maximum location: X=-7.00, Y=9.00 ; SAR Peak: 0.67 W/kg

D. SAR 1g & 10g

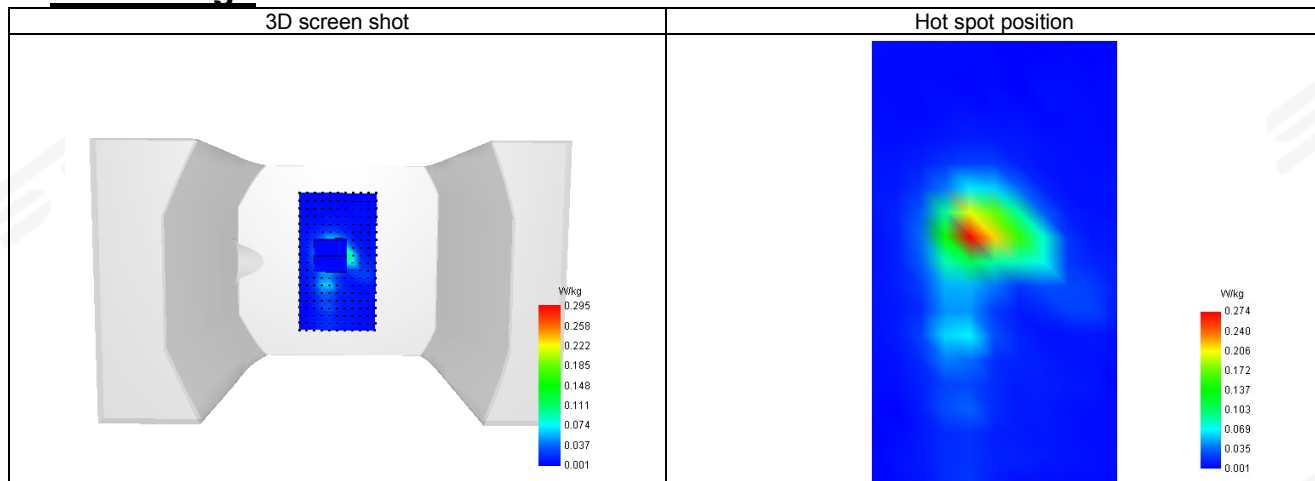
SAR 10g (W/Kg)	0.092
SAR 1g (W/Kg)	0.273
Horizontal validation criteria: minimum distance (mm)	8.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	27.663721

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.674	0.295	0.069	0.030	0.010	0.003	0.001



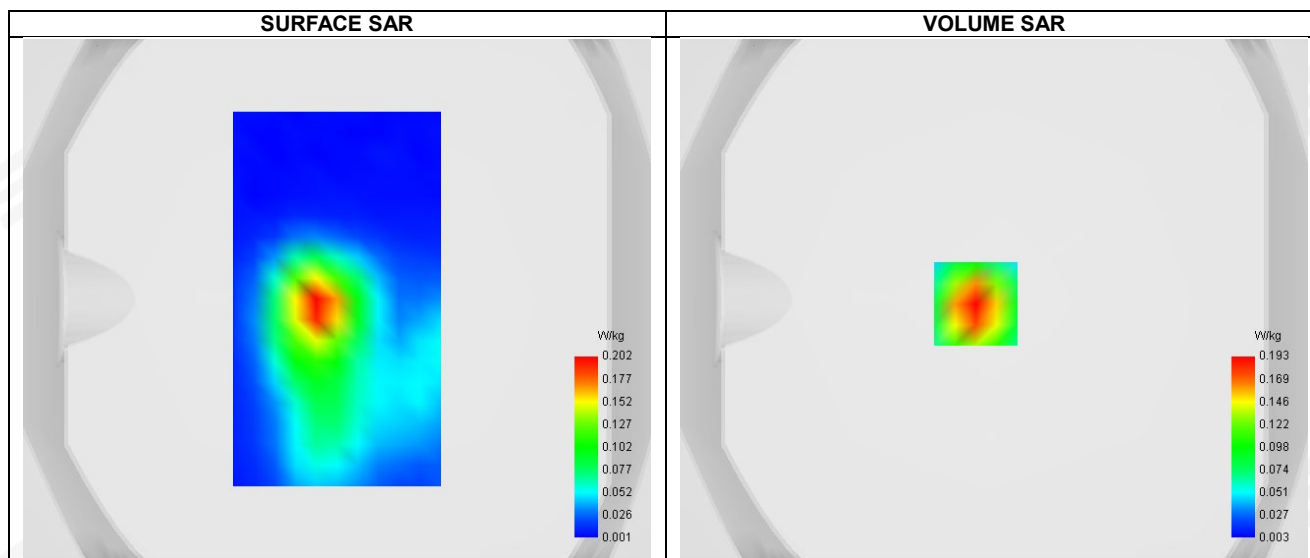
F. 3D Image





Plot 39: DUT: Smart Phone; EUT Model: RugKing 3 Pro

Test Date	2025-08-23
ConvF	1.80
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm,Complete
Phantom	Body
Device Position	Back Side
Band	2.4GHz WLAN
Signal	IEEE802.b (Crest factor: 1.0)
Frequency	2472

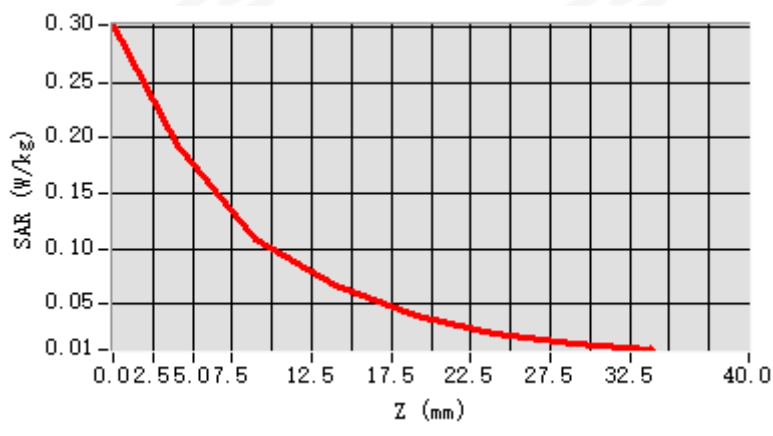


D. SAR 1g & 10g

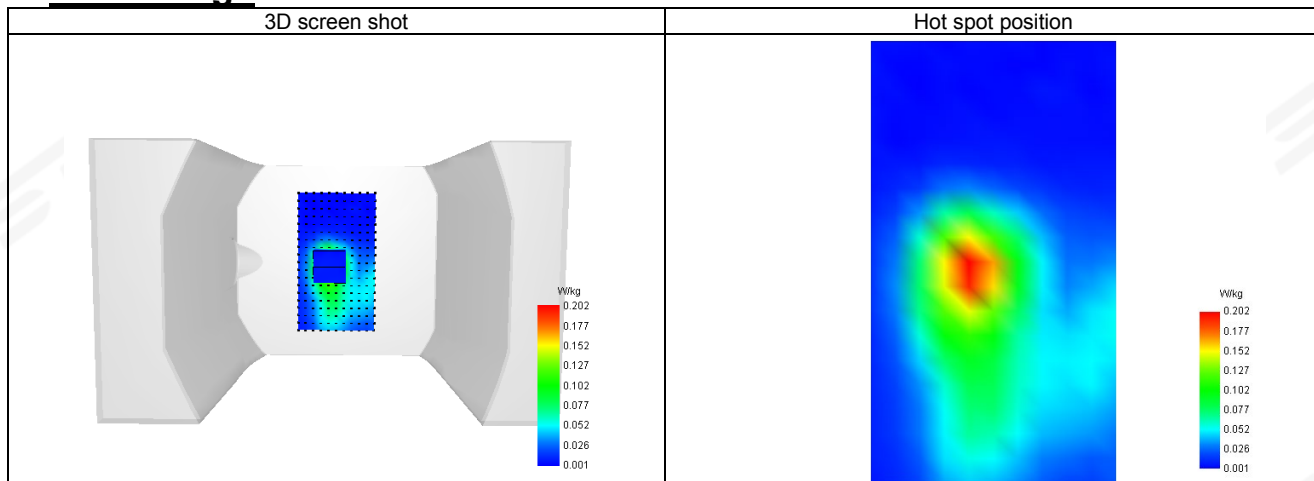
SAR 10g (W/Kg)	0.097
SAR 1g (W/Kg)	0.183
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	56.444486

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.302	0.193	0.109	0.067	0.039	0.023	0.014



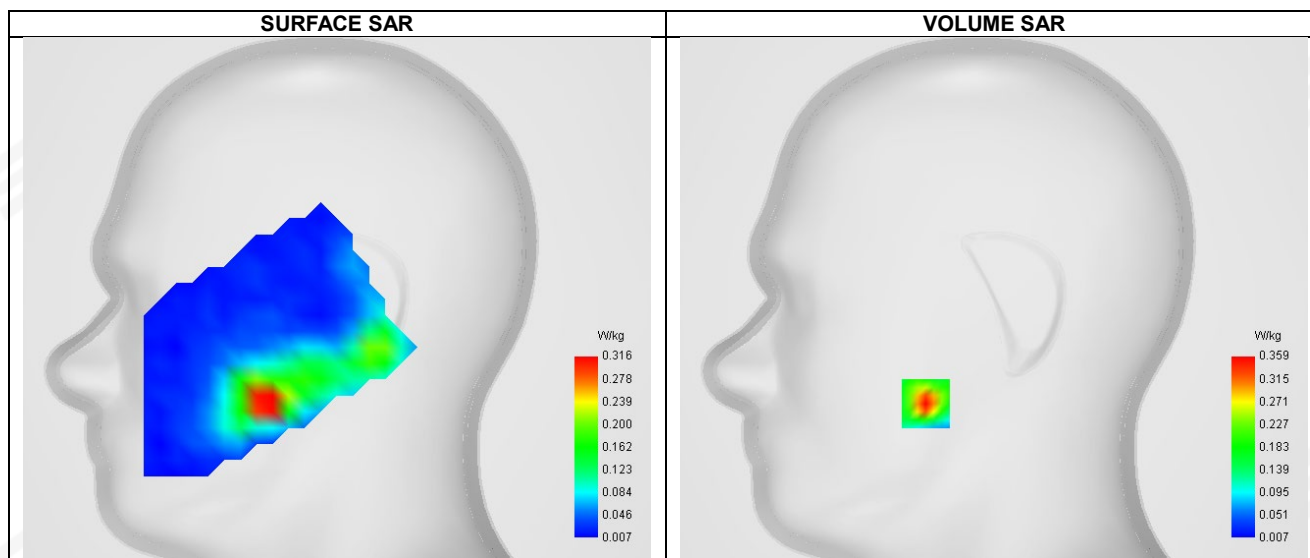
F. 3D Image





Plot 40: DUT: Smart Phone; EUT Model: RugKing 3 Pro

Test Date	2025-08-24
ConvF	1.33
Area Scan	dx=8mm dy=8mm,Complete
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm, Complete
Phantom	Head
Device Position	Right Cheek
Band	5.2GHz WLAN
Signal	802.11 n-HT20 (Crest factor: 1.0)
Frequency	5180



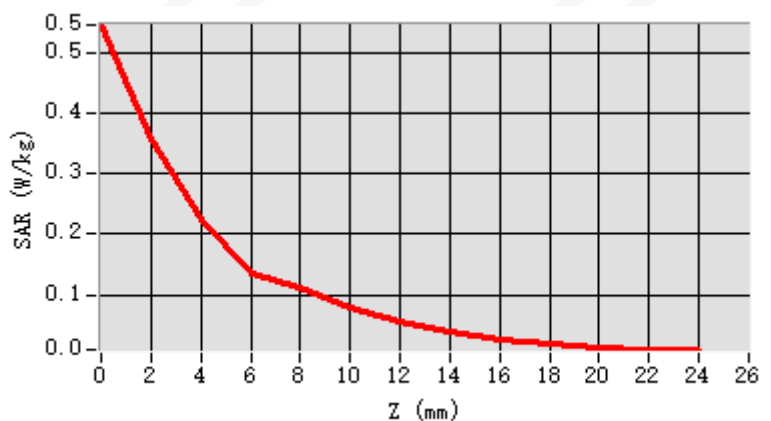
Maximum location: X=-34.00, Y=-52.00 ; SAR Peak: 0.86 W/kg

D. SAR 1g & 10g

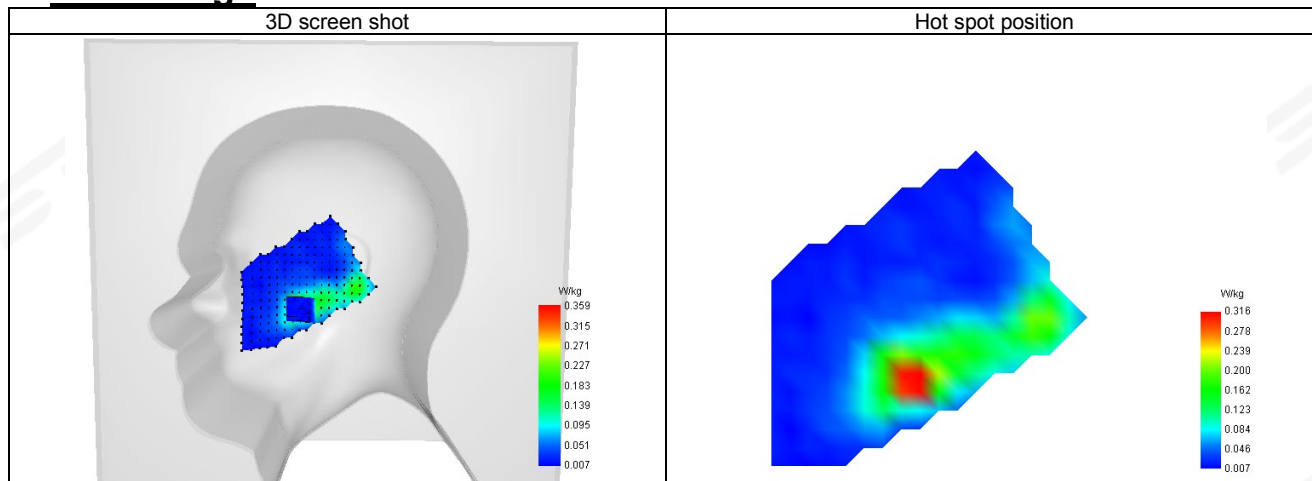
SAR 10g (W/Kg)	0.132
SAR 1g (W/Kg)	0.352
Horizontal validation criteria: minimum distance (mm)	8.944272
Vertical validation criteria: SAR ratio M2/M1 (%)	62.348966

E. Z Axis Scan

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00
SAR (W/Kg)	0.547	0.359	0.224	0.134	0.112	0.077	0.054	0.037	0.026	0.018	0.013	0.009



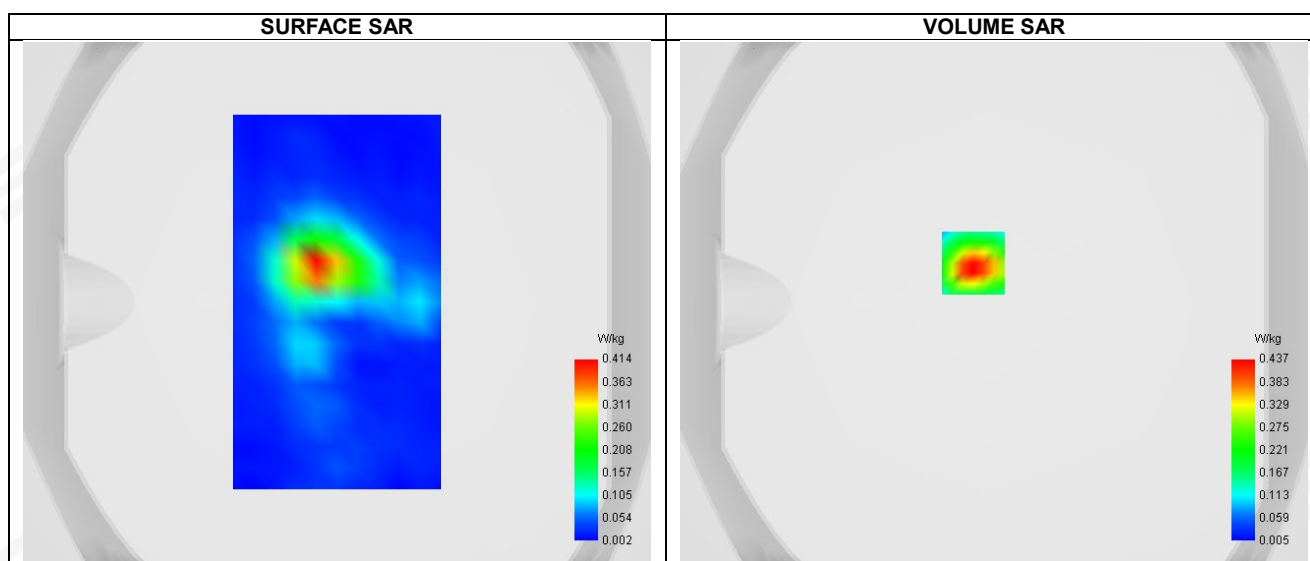
F. 3D Image





Plot 41: DUT: Smart Phone; EUT Model: RugKing 3 Pro

Test Date	2025-08-24
ConvF	1.33
Area Scan	dx=8mm dy=8mm,Complete
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm, Complete
Phantom	Body
Device Position	Back Side
Band	5.2GHz WLAN
Signal	802.11 n-HT20 (Crest factor: 1.0)
Frequency	5180

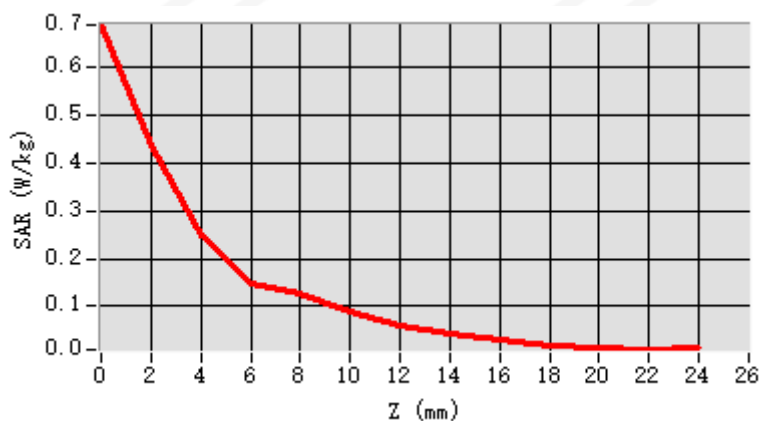


D. SAR 1g & 10g

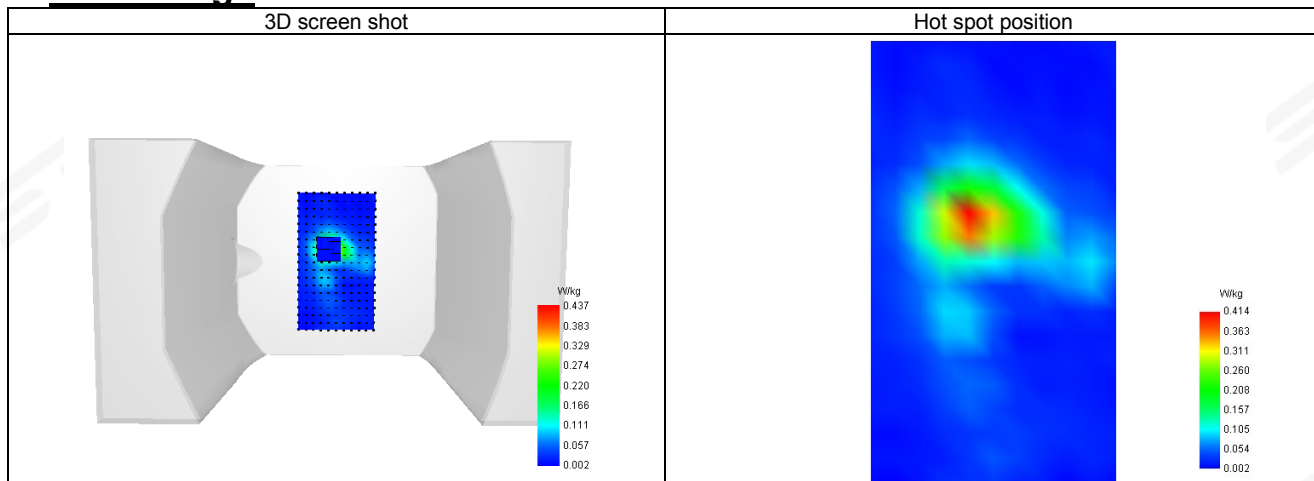
SAR 10g (W/Kg)	0.116
SAR 1g (W/Kg)	0.300
Horizontal validation criteria: minimum distance (mm)	8.944272
Vertical validation criteria: SAR ratio M2/M1 (%)	56.635165

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)	0.690	0.437	0.248	0.147	0.127	0.087	0.060	0.041	0.028	0.019	0.013	0.009	0.009



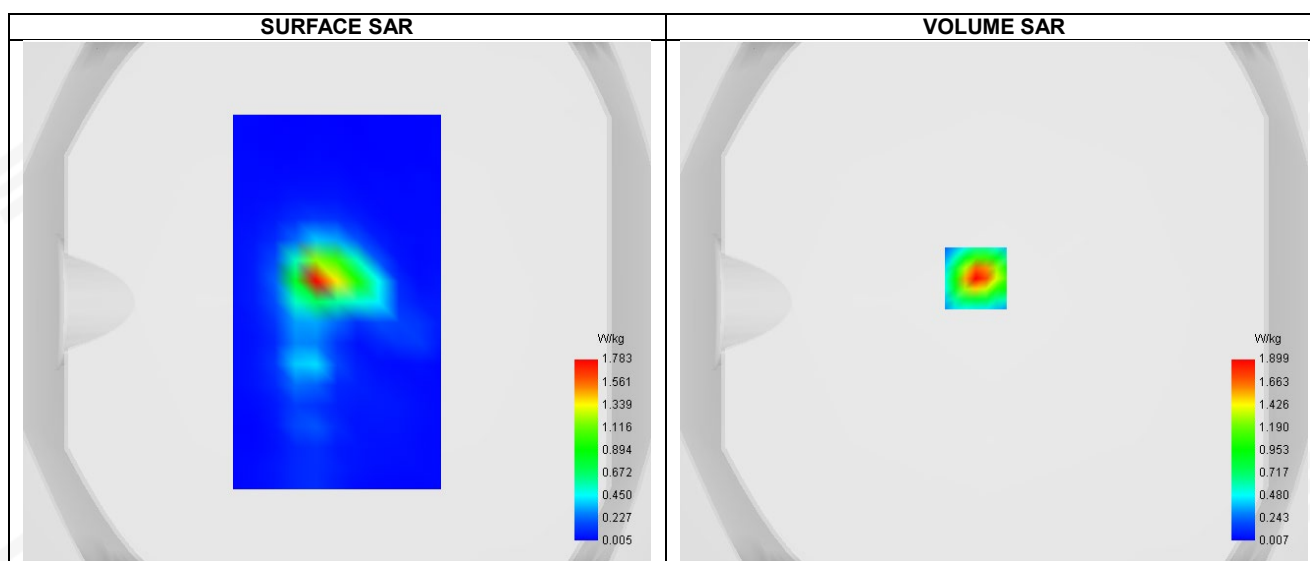
F. 3D Image





Plot 42: DUT: Smart Phone; EUT Model: RugKing 3 Pro

Test Date	2025-08-24
ConvF	1.33
Area Scan	dx=8mm dy=8mm,Complete
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm, Complete
Phantom	Body
Device Position	Back Side
Band	5.2GHz WLAN
Signal	802.11 n-HT20 (Crest factor: 1.0)
Frequency	5180



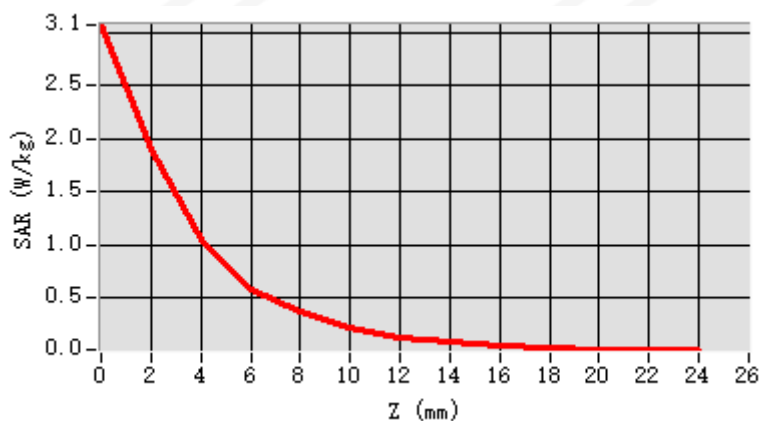
Maximum location: X=-7.00, Y=9.00 ; SAR Peak: 3.32 W/kg

D. SAR 1g & 10g

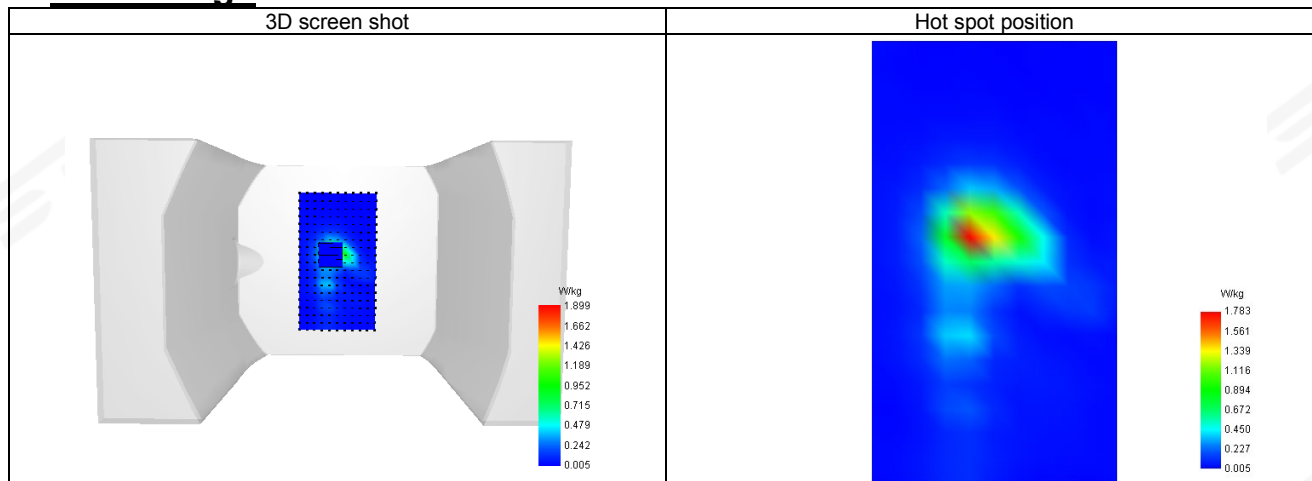
SAR 10g (W/Kg)	0.374
SAR 1g (W/Kg)	1.123
Horizontal validation criteria: minimum distance (mm)	8.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	54.890878

E. Z Axis Scan

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00
SAR (W/Kg)	3.076	1.899	1.042	0.579	0.373	0.220	0.130	0.076	0.045	0.026	0.016	0.009



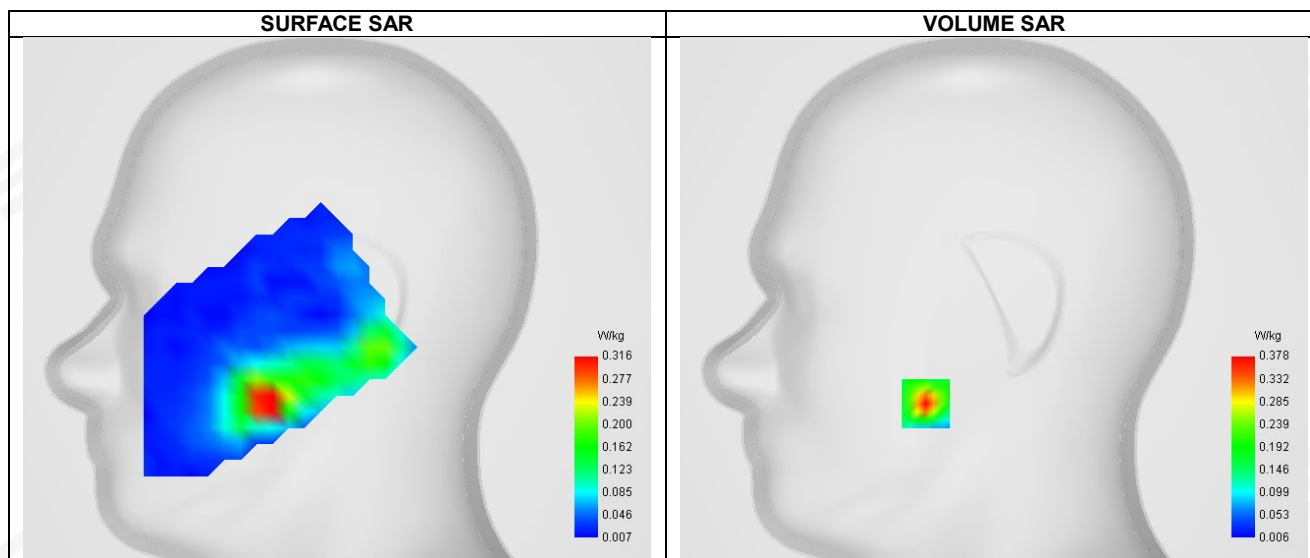
F. 3D Image





Plot 43: DUT: Smart Phone; EUT Model: RugKing 3 Pro

Test Date	2025-08-24
ConvF	1.33
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	7x7x12, dx=4mm dy=4mm dz=2mm, Complete
Phantom	Head
Device Position	Right Cheek
Band	5.3GHz WLAN
Signal	802.11 n-HT20 (Crest factor: 1.0)
Frequency	5320

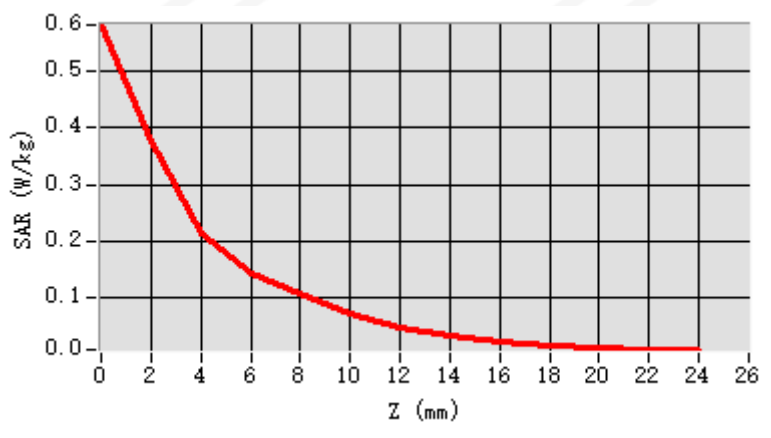


D. SAR 1g & 10g

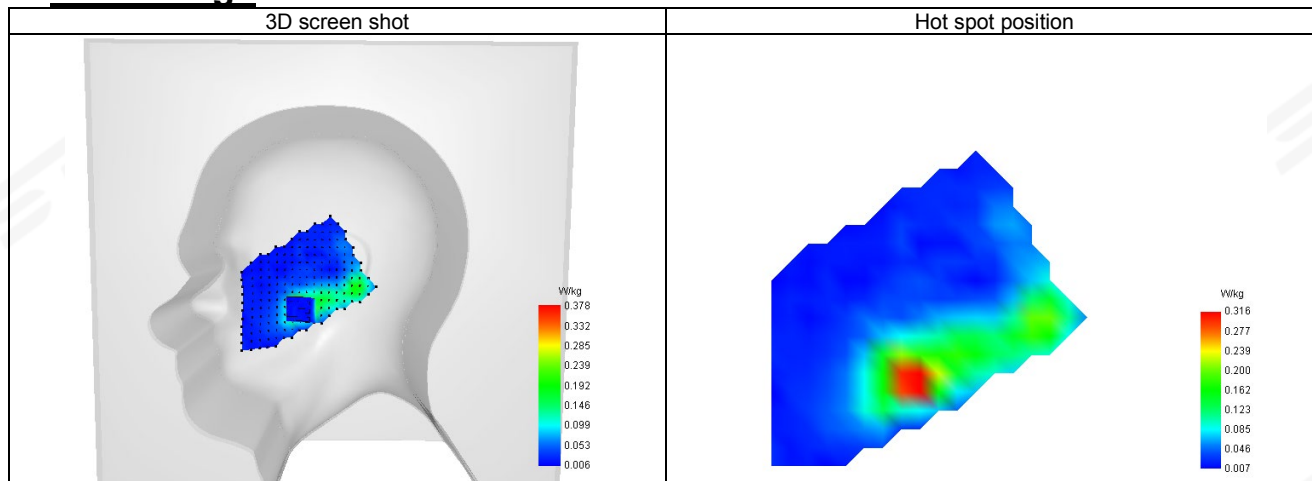
SAR 10g (W/Kg)	0.140
SAR 1g (W/Kg)	0.384
Horizontal validation criteria: minimum distance (mm)	8.944272
Vertical validation criteria: SAR ratio M2/M1 (%)	56.565380

E. Z Axis Scan

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00
SAR (W/Kg)	0.583	0.378	0.214	0.141	0.105	0.071	0.047	0.032	0.021	0.014	0.010	0.006



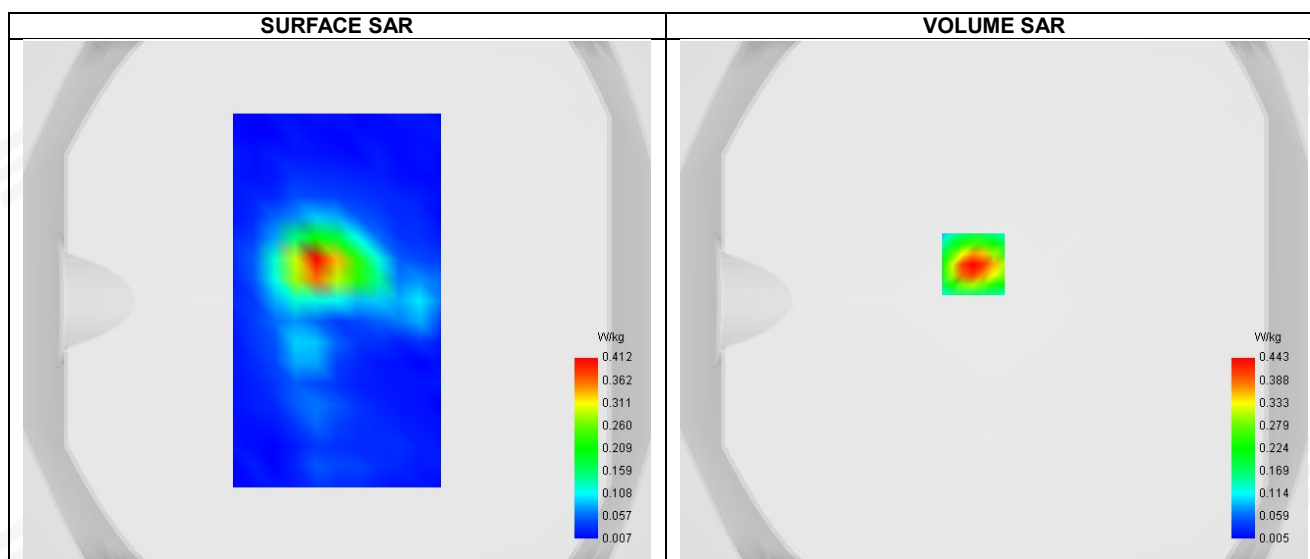
F. 3D Image





Plot 44: DUT: Smart Phone; EUT Model: RugKing 3 Pro

Test Date	2025-08-24
ConvF	1.33
Area Scan	dx=8mm dy=8mm,Complete
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm, Complete
Phantom	Body
Device Position	Back Side
Band	5.3GHz WLAN
Signal	802.11 n-HT20 (Crest factor: 1.0)
Frequency	5320



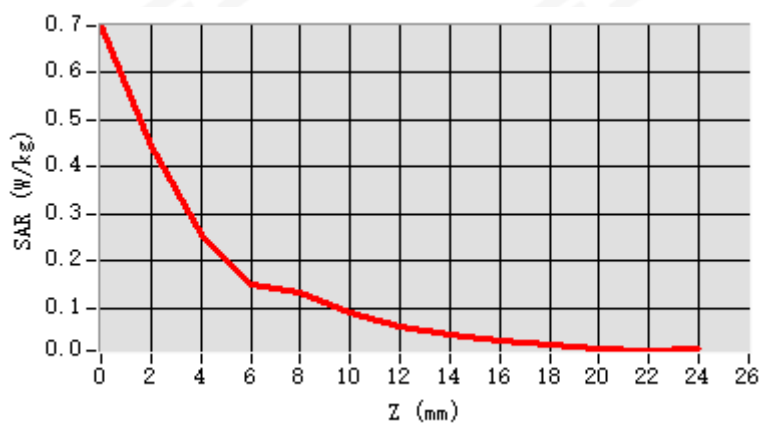
Maximum location: X=-8.00, Y=14.00 ; SAR Peak: 0.80 W/kg

D. SAR 1g & 10g

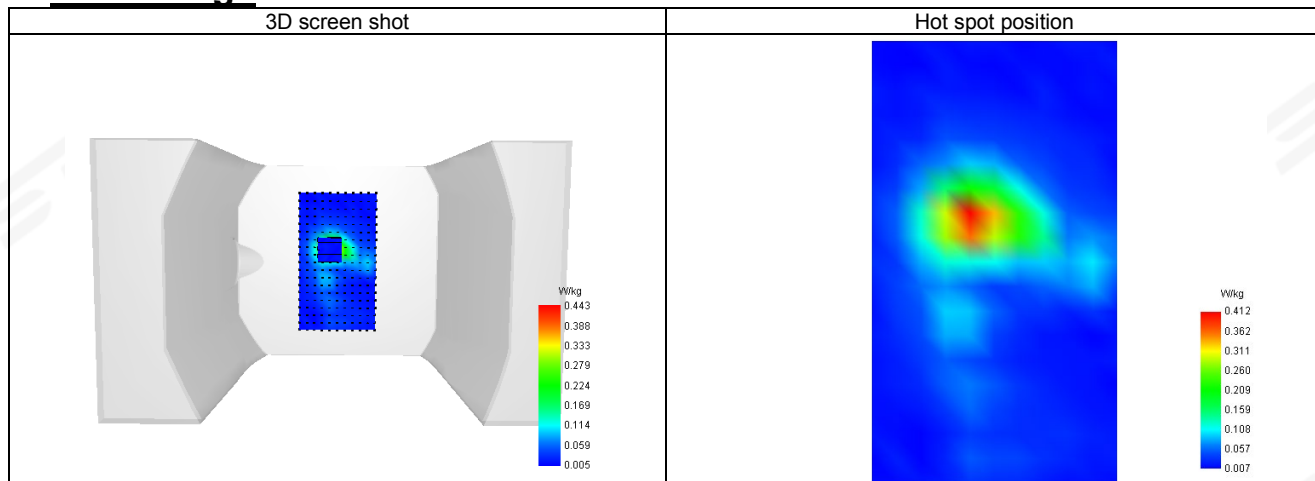
SAR 10g (W/Kg)	0.115
SAR 1g (W/Kg)	0.300
Horizontal validation criteria: minimum distance (mm)	11.313708
Vertical validation criteria: SAR ratio M2/M1 (%)	57.544083

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)	0.698	0.443	0.255	0.148	0.131	0.090	0.062	0.043	0.030	0.021	0.014	0.010	0.010

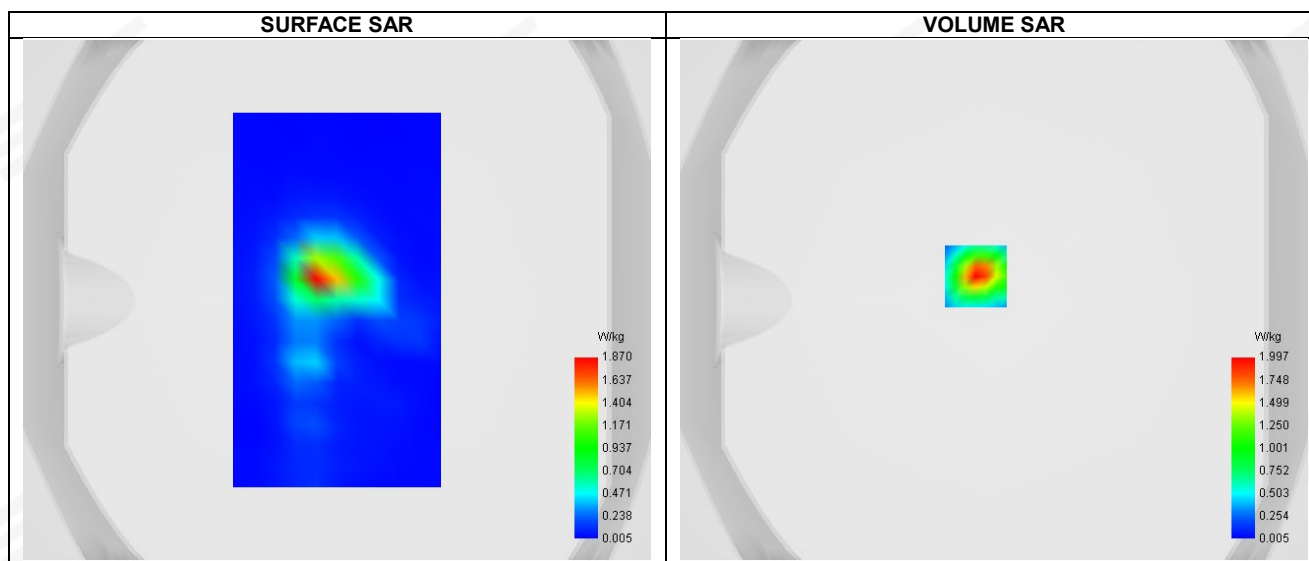


F. 3D Image



Plot 45: DUT: Smart Phone; EUT Model: RugKing 3 Pro

Test Date	2025-08-24
ConvF	1.33
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	7x7x12, dx=4mm dy=4mm dz=2mm, Complete
Phantom	Body
Device Position	Back Side
Band	5.3GHz WLAN
Signal	802.11 n-HT20 (Crest factor: 1.0)
Frequency	5320



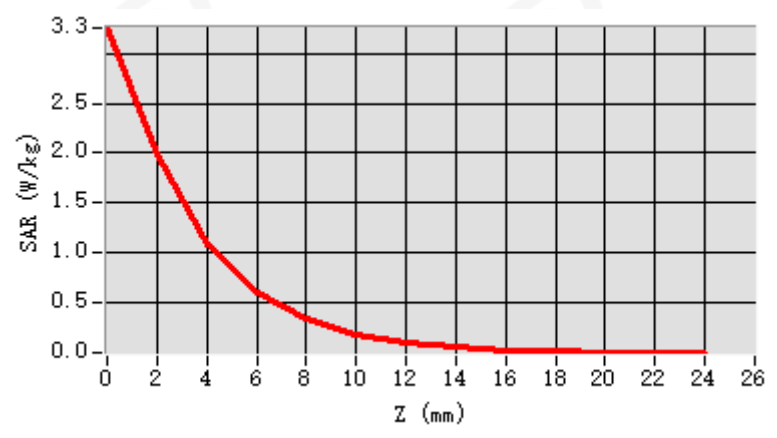
Maximum location: X=-7.00, Y=9.00 ; SAR Peak: 3.43 W/kg

D. SAR 1g & 10g

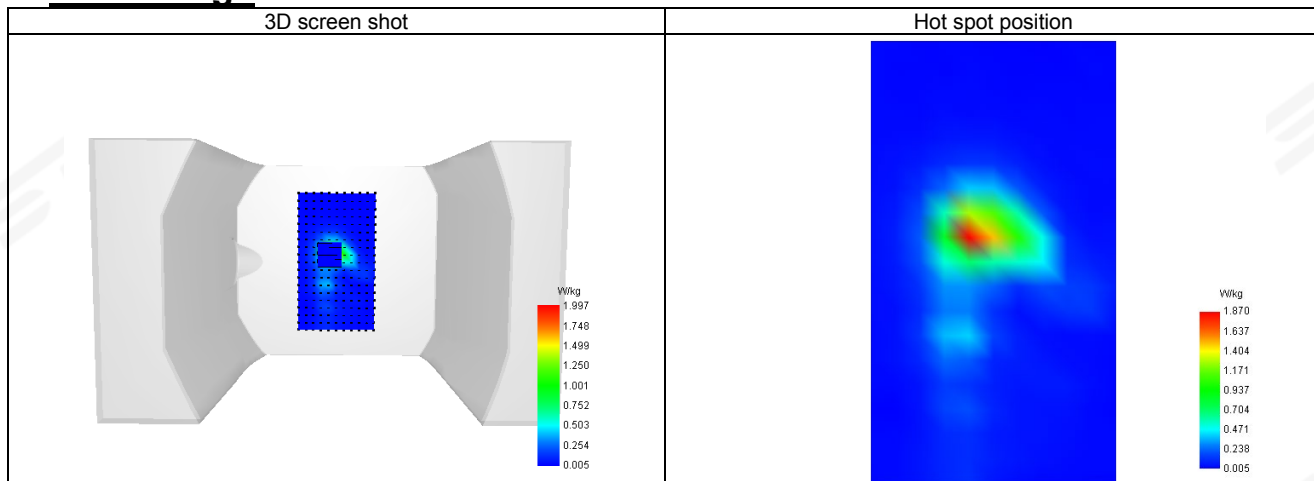
SAR 10g (W/Kg)	0.392
SAR 1g (W/Kg)	1.176
Horizontal validation criteria: minimum distance (mm)	8.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	54.700732

E. Z Axis Scan

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00
SAR (W/Kg)	3.252	1.997	1.092	0.603	0.342	0.191	0.106	0.059	0.033	0.018	0.010	0.006



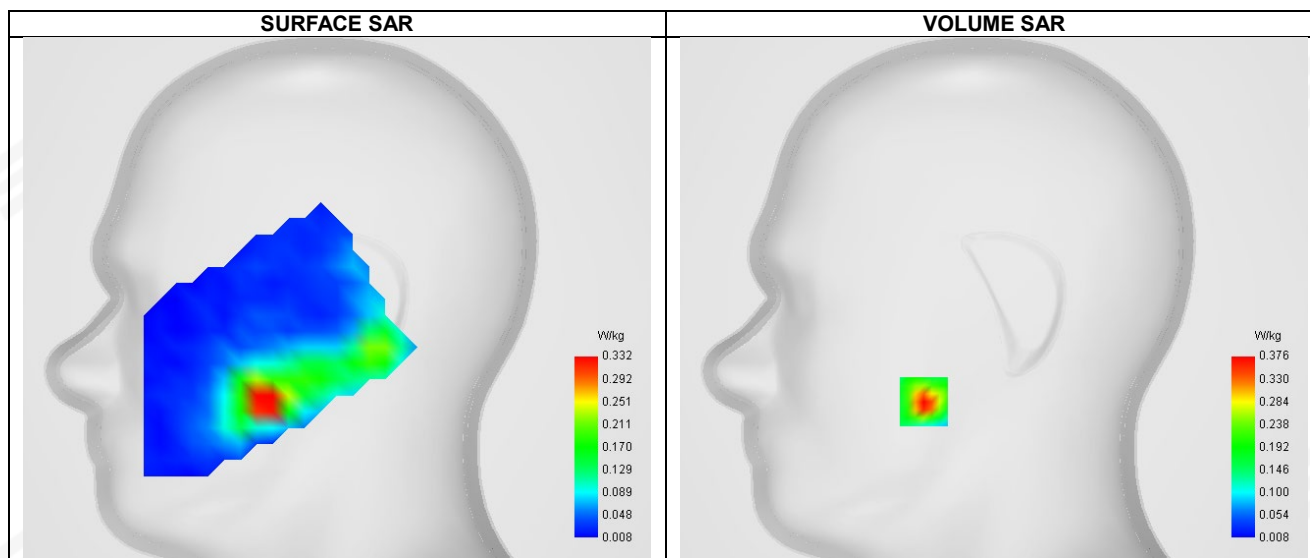
F. 3D Image





Plot 46: DUT: Smart Phone; EUT Model: RugKing 3 Pro

Test Date	2025-08-21
ConvF	1.35
Area Scan	dx=8mm dy=8mm,Complete
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm, Complete
Phantom	Head
Device Position	Right Cheek
Band	5.8GHz WLAN
Signal	802.11 n-HT20 (Crest factor: 1.0)
Frequency	5825

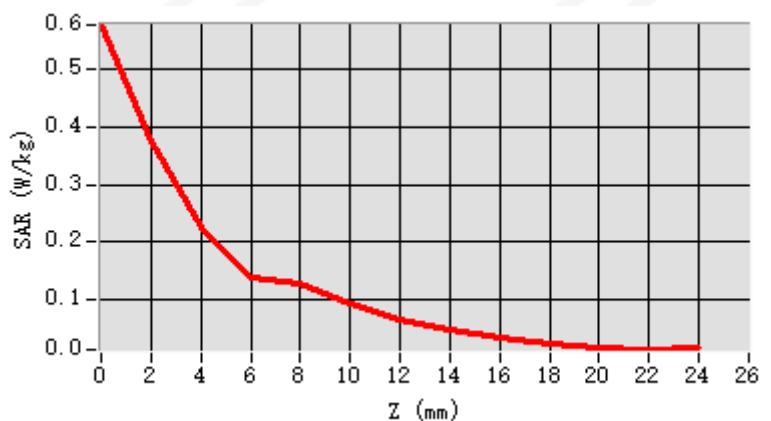


D. SAR 1g & 10g

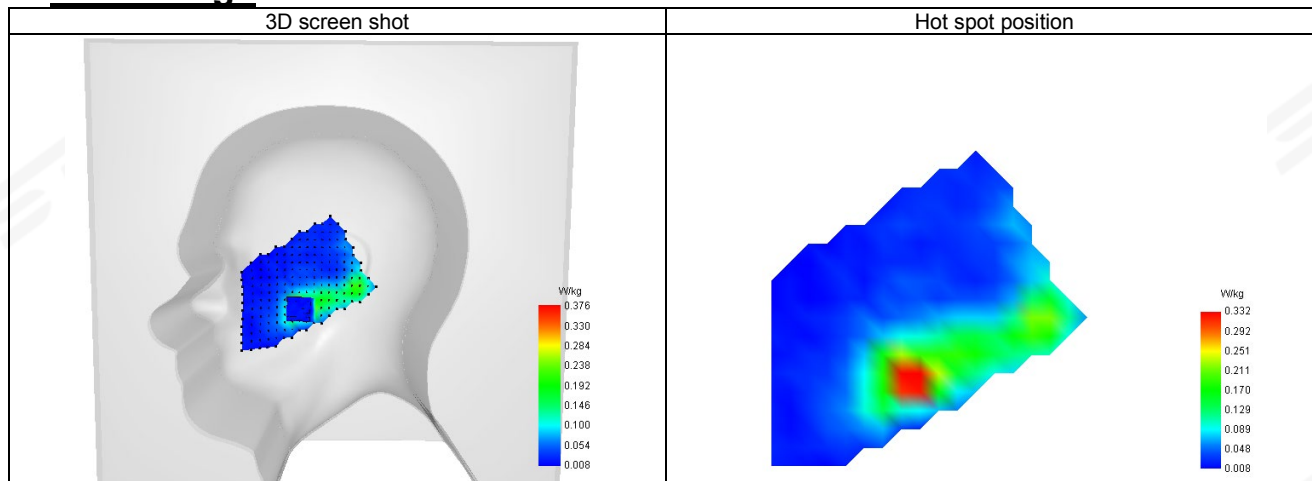
SAR 10g (W/Kg)	0.148
SAR 1g (W/Kg)	0.385
Horizontal validation criteria: minimum distance (mm)	11.313708
Vertical validation criteria: SAR ratio M2/M1 (%)	59.862035

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)	0.577	0.376	0.225	0.140	0.128	0.093	0.067	0.049	0.035	0.026	0.019	0.013	0.008



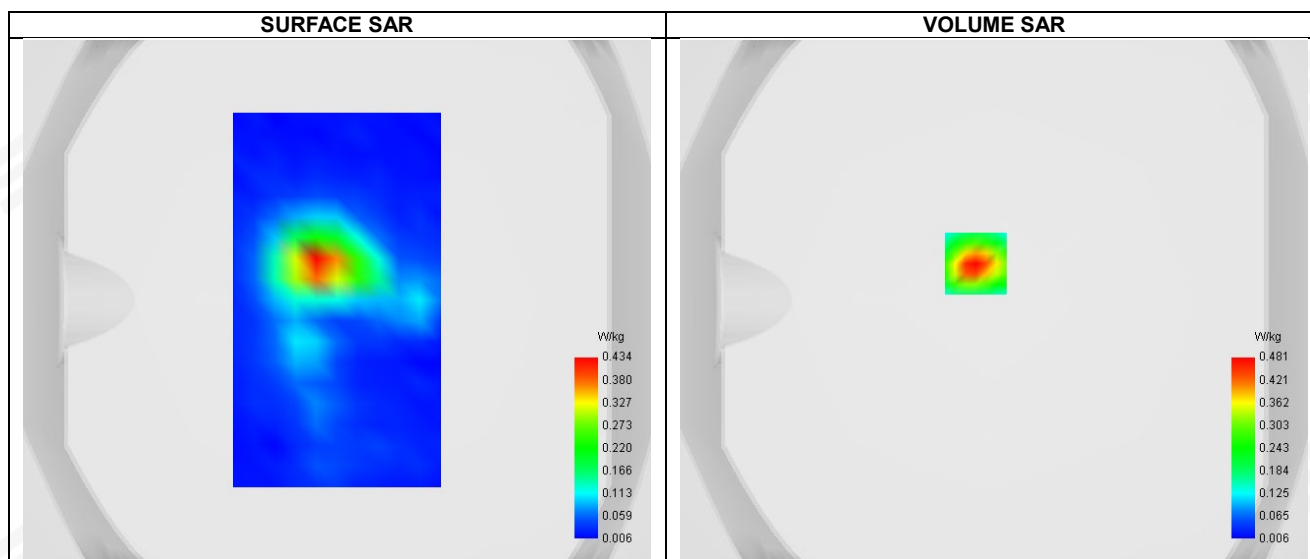
F. 3D Image





Plot 47: DUT: Smart Phone; EUT Model: RugKing 3 Pro

Test Date	2025-08-21
ConvF	1.35
Area Scan	dx=8mm dy=8mm,Complete
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm, Complete
Phantom	Body
Device Position	Back Side
Band	5.8GHz WLAN
Signal	802.11 n-HT20 (Crest factor: 1.0)
Frequency	5825

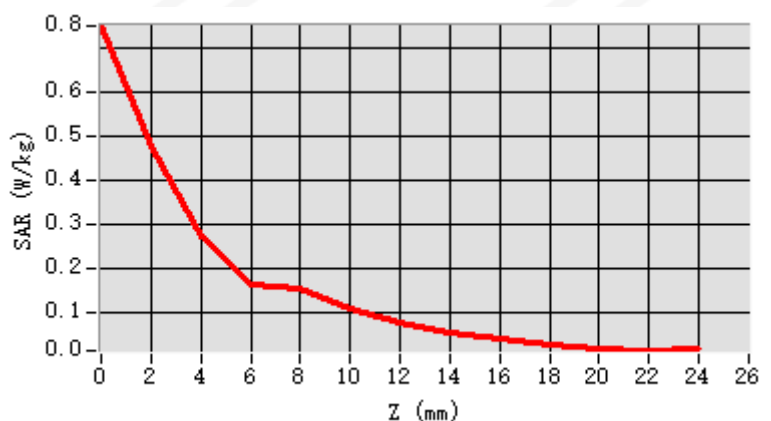


D. SAR 1g & 10g

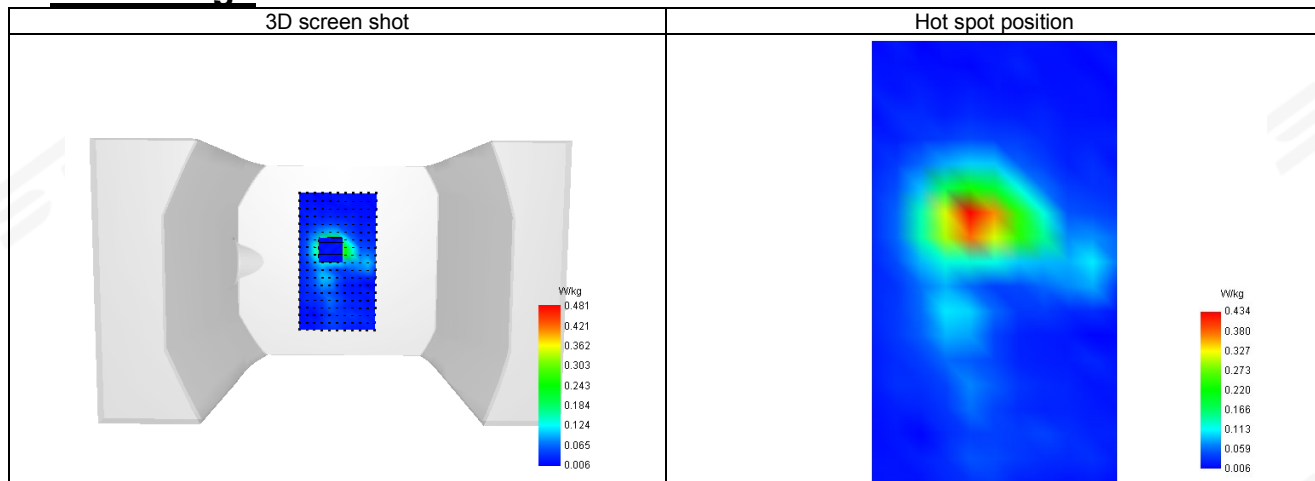
SAR 10g (W/Kg)	0.131
SAR 1g (W/Kg)	0.323
Horizontal validation criteria: minimum distance (mm)	11.313708
Vertical validation criteria: SAR ratio M2/M1 (%)	56.896614

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)	0.752	0.481	0.274	0.168	0.157	0.113	0.082	0.059	0.042	0.030	0.022	0.016	0.016



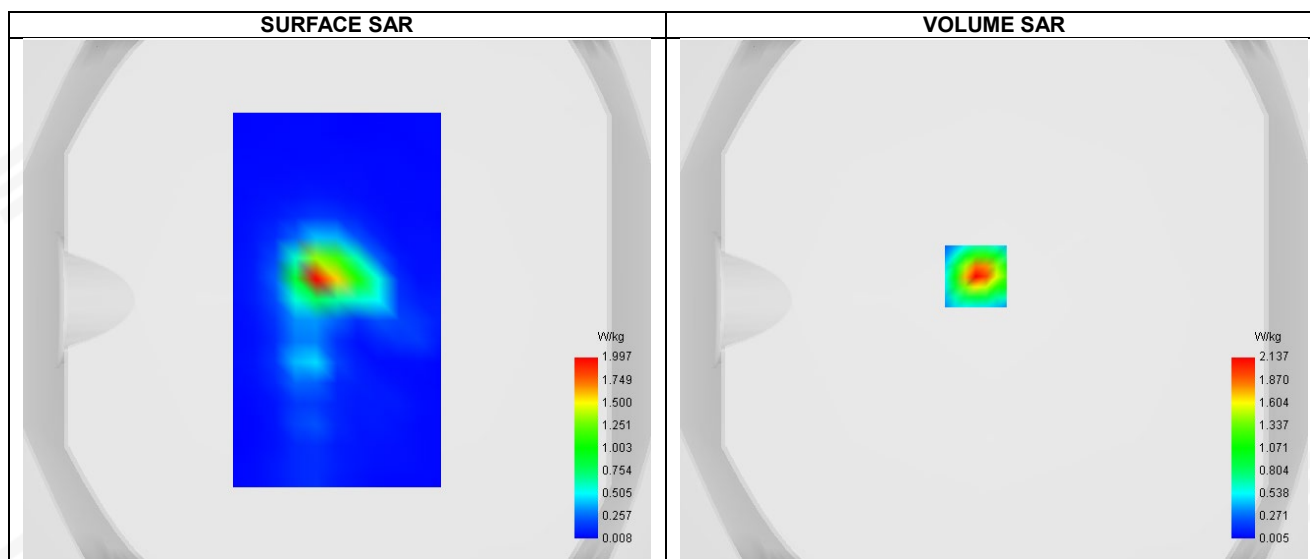
F. 3D Image





Plot 47: DUT: Smart Phone; EUT Model: RugKing 3 Pro

Test Date	2025-08-21
ConvF	1.35
Area Scan	dx=8mm dy=8mm,Complete
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm, Complete
Phantom	Body
Device Position	Back Side
Band	5.8GHz WLAN
Signal	802.11 n-HT20 (Crest factor: 1.0)
Frequency	5825



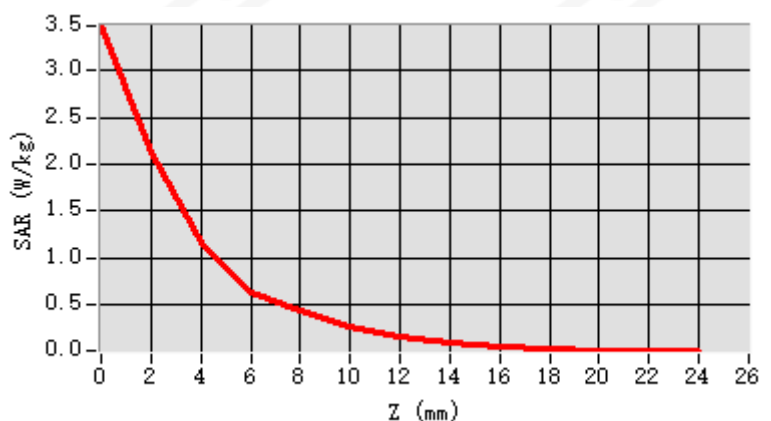
Maximum location: X=-7.00, Y=9.00 ; SAR Peak: 3.81 W/kg

D. SAR 1g & 10g

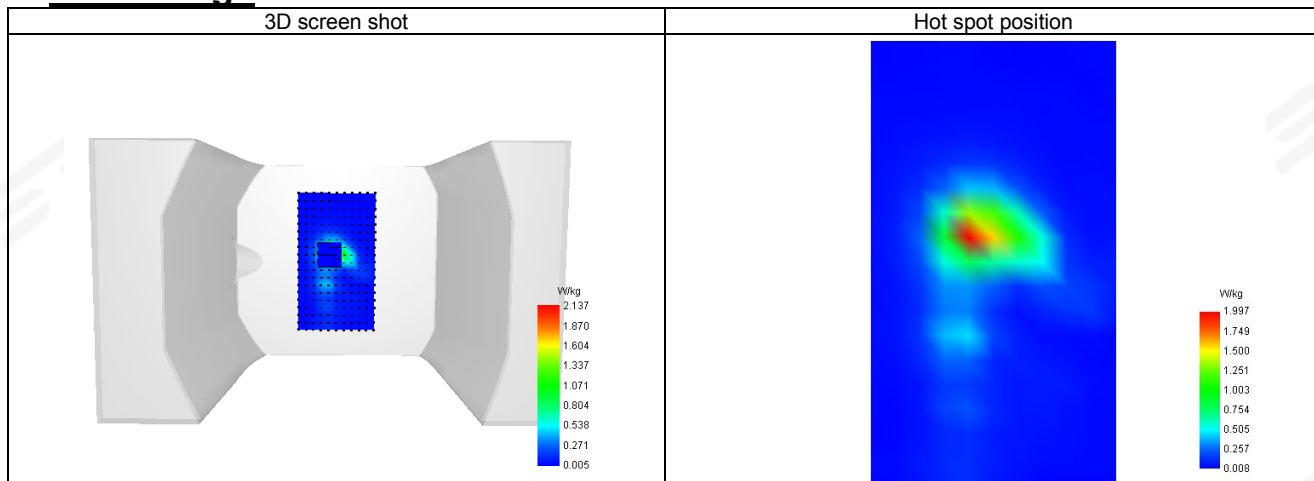
SAR 10g (W/Kg)	0.415
SAR 1g (W/Kg)	1.250
Horizontal validation criteria: minimum distance (mm)	8.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	54.349857

E. Z Axis Scan

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00
SAR (W/Kg)	3.478	2.137	1.161	0.630	0.446	0.270	0.163	0.099	0.060	0.036	0.022	0.013



F. 3D Image





Appendix C. Probe Calibration and Dipole Calibration Report

Refer the appendix Calibration Report.

※※※※※END OF THE REPORT※※※※※