



SAR Test Report

Report No.: STS2601220H02

Issued for

JetWave Technology Co., Ltd.

10/F, Building 6, No.5 Shengfang Road, Daxing District,
Beijing, China

Product Name: Smart Controller

Brand Name: JetWave

Model Name: RC3000

Series Model(s): RC3000-A, RC3000-B, RC3000-C

FCC ID: 2BQTS-RC3000

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

Max. Report SAR (1g) Body: 1.331 W/kg
Limb: 0.610 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** : JetWave Technology Co., Ltd.

Address : 10/F, Building 6, No.5 Shengfang Road, Daxing District, Beijing, China

Manufacturer's Name : JetWave Technology Co., Ltd.

Address : 10/F, Building 6, No.5 Shengfang Road, Daxing District, Beijing, China

Product description

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Standards : FCC 47 CFR Part 2 (2.1093)

IEEE Std. 1528-2013

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

Date of Test..... :

Date (s) of performance of tests..... : 01 Mar 2026 ~ 28 Mar 2026

Date of Issue..... : 19 May 2026

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

Testing Engineer : _____

(Xin.Liu)

Technical Manager : _____

(Shifan. Long)

Authorized Signatory : _____

(Bovey Yang)





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Revision History

Rev.	Issue Date	Report No.	Effect Page	Contents
00	21 Apr 2026	STS2601220H02	ALL	Initial Issue
01	19 May 2026	STS2601220H02	31	Updated transmit power for Bluetooth BR
			Appendix D	Meanwhile update the Bluetooth BR Tune Up power



1. General Information

Environmental evaluation measurements of specific absorption rate (SAR) distributions in emulated human head and body tissues exposed to radio frequency (RF) radiation from wireless portable devices for compliance with the rules and regulations of the U.S. Federal Communications Commission (FCC).

1.1 EUT Description

Product Name	Smart Controller
Brand Name	JetWave
Model Name	RC3000
Series Model	RC3000-A, RC3000-B, RC3000-C
Model Difference	The model name is different, while everything else is the same as the main test.
Sample number	260116012-3
Battery	Rated Voltage:3.65V ChargeLimit Voltage:4.2V Capacity: 3500mAh
Device Category	Portable
Product stage	Production unit
RF Exposure Environment	General Population / Uncontrolled
Hardware Version	BT02_MB_V1.0
Software Version	RC3000_V1.0
Frequency Range	WCDMA Band II: 1850 MHz ~ 1910 MHz WCDMA Band IV:1710 MHz ~ 1755 MHz WCDMA Band V: 824 MHz ~ 849 MHz LTE Band 2: 1850 MHz ~ 1910 MHz LTE Band 4: 1710 MHz ~ 1755 MHz LTE Band 5: 824 MHz ~ 849 MHz LTE Band 7:2500 MHz ~ 2570 MHz LTE Band 12: 699 MHz ~ 716 MHz LTE Band 13: 777 MHz ~ 787 MHz LTE Band 17: 704 MHz ~ 716 MHz LTE Band 38: 2570 MHz ~ 2620 MHz LTE Band 41: 2496 MHz ~ 2690 MHz LTE Band 66: 1710 MHz ~ 1780 MHz WLAN802.11b/g/n20: 2412 MHz ~ 2462 MHz WLAN 802.11n40: 2422 MHz ~ 2452 MHz WLAN 802.11a/n20/n40/ac20/ac40/ac80: 5150 ~ 5250 MHz WLAN 802.11a/n20/n40/ac20/ac40/ac80: 5250 ~ 5350 MHz WLAN 802.11a/n20/n40/ac20/ac40/ac80: 5470 ~ 5725 MHz WLAN 802.11a/n20/n40/ac20/ac40/ac80: 5725 ~ 5850 MHz Bluetooth: 2402 MHz to 2480 MHz NFC:13.56MHz



	Band	Mode	Body Worn and Hotspot(W/kg)	Limb Worn and Hotspot(W/kg)
Max. Reported SAR: Test distance: Body:0mm(1g) Limb:0mm(10g)	PCS (PCT)	WCDMA Band II	0.667	0.341
	PCS (PCT)	WCDMA Band V	0.883	0.470
	PCS (PCT)	WCDMA Band IV	1.174	0.610
	PCS (PCT)	LTE Band 2	1.250	0.586
	PCS (PCT)	LTE Band 4	1.331	0.602
	PCS (PCT)	LTE Band 5	0.894	0.506
	PCS (PCT)	LTE Band 7	1.246	0.603
	PCS (PCT)	LTE Band 12	0.574	0.298
	PCS (PCT)	LTE Band 13	0.461	0.234
	PCS (PCT)	LTE Band 17	0.712	0.460
	PCS (PCT)	LTE Band 38	0.873	0.418
	PCS (PCT)	LTE Band 41	0.629	0.316
	PCS (PCT)	LTE Band 66	0.565	0.269
	DTS	2.4G WLAN	0.142	0.064
	DSS	BT	0.065	0.065
	NII	5.2G WLAN	0.211	0.073
	NII	5.3G WLAN	0.131	0.046
	NII	5.6G WLAN	0.195	0.077
	NII	5.8G WLAN	0.146	0.054
Sum SAR			1.542	0.687
Limit			2.0W/kg	4.0W/kg
FCC Equipment Class	PCS Licensed Transmitter (PCT) Part 15 Spread Spectrum Transmitter (DSS) Part 15.225 13.56 MHz Near Field Communication (DXX) Digital Transmission System (DTS) Unlicensed National Information Infrastructure TX(NII)			
Operating Mode:	WCDMA: RMC, HSDPA, HSUPA Release 6 LTE: QPSK, 16QAM 2.4G WLAN : 802.11b(DSSS):CCK,DQPSK,DBPSK 802.11g(OFDM):BPSK,QPSK,16-QAM,64-QAM 802.11n(OFDM):BPSK,QPSK,16-QAM,64-QAM 5G WLAN: 802.11a(OFDM):BPSK,QPSK,16-QAM,64-QAM 802.11n(OFDM):BPSK,QPSK,16-QAM,64-QAM 802.11ac(OFDM):BPSK,QPSK,16-QAM,64-QAM,256-QAM Bluetooth: GFSK + π /4DQPSK+8DPSK BLE: GFSK NFC: ASK			
Antenna Specification:	WCDMA/LTE: PIFA Antenna Bluetooth: PIFA Antenna WLAN: PIFA Antenna NFC:PIFA Antenna			
SIM Card	Only one SIM			
Hotspot Mode	Support			
DTM Mode	Not Support			
Note: 1. The EUT battery must be fully charged and checked periodically during the test to ascertain uniform power				



1.2 Test Environment

Ambient conditions in the SAR laboratory:

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

1.3 Test Factory

ShenZhen STS Test Services Co.,Ltd.

A 1/F, Building B, Zhuoke Science Park, No.190 Chongqing Road, HepingShequ, Fuyong Sub-District, Bao'an District, Shenzhen, Guang Dong, China

FCC test Firm Registration No.: 625569

IC Registration No.: 12108A

A2LA Certificate No.: 4338.01



2. Test Standards and Limits

No.	Identity	Document Title
1	47 CFR Part 2	Frequency Allocations and Radio Treaty Matters; General Rules and Regulations
2	IEEE Std C95.1, 2019	IEEE Standard for Safety Levels with Respect to Human Exposure to Electric, Magnetic, and Electromagnetic Fields, 0 Hz to 300 GHz. It specifies the maximum exposure limit of 1.6 W/kg as averaged over any 1 gram of tissue for portable devices being used within 20 cm of the user in the uncontrolled environment.
3	IEEE Std. 1528-2013	Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques
4	FCC KDB 447498 D04 v01	RF Exposure Procedures and Equipment Authorization Policies for Mobile and Portable Devices
5	FCC KDB 865664 D01 v01r04	SAR Measurement 100 MHz to 6 GHz
6	FCC KDB 865664 D02 v01r02	RF Exposure Reporting
7	FCC KDB 941225 D01 v03r01	SAR Measurement Procedures for 3G Devices
8	FCC KDB 941225 D05 v02r05	SAR for LTE Devices
9	FCC KDB 941225 D06 v02r01	Hotspot Mode SAR
10	FCC KDB 648474 D04 v01r03	SAR Evaluation Considerations for Wireless Handsets
11	FCC KDB 248227 D01 Wi-Fi SAR v02r02	SAR Considerations for 802.11 Devices
12	51-Handheld-Scanner-SAR-JN-Final	This SAR evaluation adopts the test position arrangement and SAR exclusion criteria guided by <i>SAR Testing for Handheld RFID/Barcode Scanner, TCB Workshop May 2017</i> .

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

Whole-Body	Partial-Body	Hands, Wrists, Feet and Ankles
0.4	8.0	20.0

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

Whole-Body	Partial-Body	Hands, Wrists, Feet and Ankles
0.08	1.6	4.0

NOTE: Whole-Body SAR is averaged over the entire body, partial-body SAR is averaged over any 1 gram of tissue defined as a tissue volume in the shape of a cube. SAR for hands, wrists, feet and ankles is averaged over any 10 grams of tissue defined as a tissue volume in the shape of a cube.

Population/Uncontrolled Environments:

Are defined as locations where there is the exposure of individuals who have no knowledge or control of their exposure.

Occupational/Controlled Environments:

Are defined as locations where there is exposure that may be incurred by people who are aware of the potential for exposure, (i.e. as a result of employment or occupation).

NOTE

GENERAL POPULATION/UNCONTROLLED EXPOSURE

PARTIAL BODY LIMIT

1.6 W/kg

3. SAR Measurement System

3.1 Definition of Specific Absorption Rate (SAR)

SAR is related to the rate at which energy is absorbed per unit mass in an object exposed to a radio field. The SAR distribution in a biological body is complicated and is usually carried out by experimental techniques or numerical modeling. The standard recommends limits for two tiers of groups, occupational/controlled and general population/uncontrolled, based on a person's awareness and ability to exercise control over his or her exposure. In general, occupational/controlled exposure limits are higher than the limits for general population/uncontrolled.

The SAR definition is the time derivative (rate) of the incremental energy (dW) absorbed by (dissipated in) an incremental mass (dm) contained in a volume element (dv) of a given density (ρ). The equation description is as below:

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

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

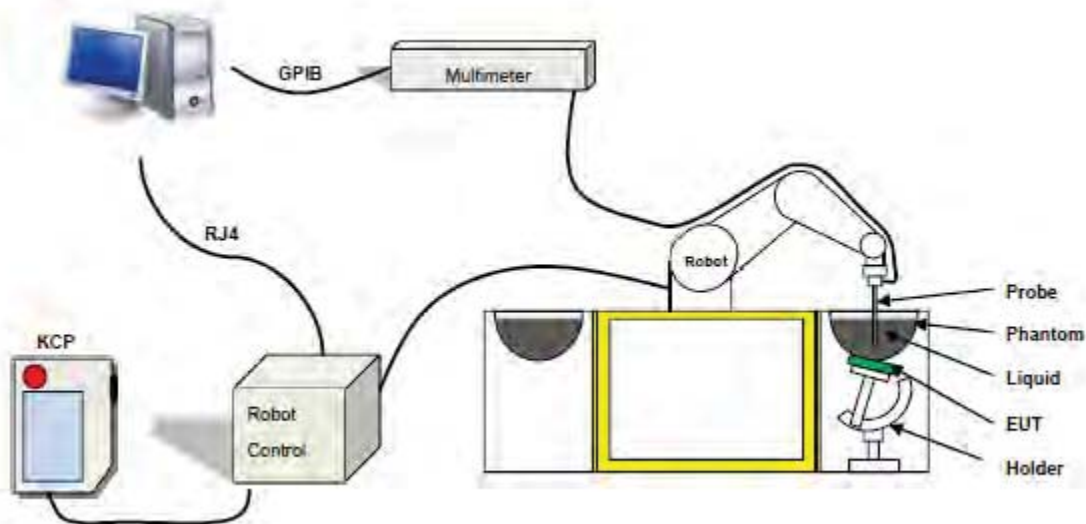
$$SAR = \frac{\sigma E^2}{\rho}$$

Where: σ is the conductivity of the tissue,

ρ is the mass density of the tissue and E is the RMS electrical field strength.

3.2 SAR System

MVG SAR System Diagram:



COMOSAR is a system that is able to determine the SAR distribution inside a phantom of human being according to different standards. The COMOSAR system consists of the following items:

- Main computer to control all the system
- 6 axis robot
- Data acquisition system
- Miniature E-field probe
- Phone holder
- Head simulating tissue

The following figure shows the system.



The EUT under test operating at the maximum power level is placed in the phone holder, under the phantom, which is filled with head simulating liquid. The E-Field probe measures the electric field inside the phantom. The Open SAR software computes the results to give a SAR value in a 1g or 10g mass.

3.2.1 Probe

For the measurements the Specific Dosimetric E-Field Probe SN 08/21 EPGO352 with following specifications is used

- Probe Length: 330 mm
- Length of Individual Dipoles: 2 mm
- Maximum external diameter: 8 mm
- Probe Tip External Diameter: 2.5 mm
- Distance between dipole/probe extremity: 1 mm
- Dynamic range: 0.01-100 W/kg
- Probe linearity: 3%
- Axial Isotropy: < 0.10 dB
- Spherical Isotropy: < 0.10 dB
- Calibration range: 150 MHz to 6 GHz for head & body simulating liquid.
- Angle between probe axis (evaluation axis) and surface normal line: less than 30°



Figure 1-MVG COMOSAR Dosimetric E field Dipole

3.2.2 Phantom

For the measurements the Specific Anthropomorphic Mannequin (SAM) defined by the IEEE SCC-34/SC2 group is used. The phantom is a polyurethane shell integrated in a wooden table. The thickness of the phantom amounts to 2mm +/- 0.2mm. It enables the dosimetric evaluation of left and right phone usage and includes an additional flat phantom part for the simplified performance check. The phantom set-up includes a cover, which prevents the evaporation of the liquid.

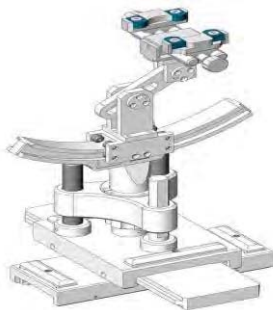
SN 32/14 SAM115



Figure-SN 21/21 ELLI48



3.2.3 Device Holder



The SAR in the phantom is approximately inversely proportional to the square of the distance between the source and the liquid surface. For a source at 5 mm distance, a positioning uncertainty of ± 0.5 mm would produce a SAR uncertainty of ± 20 %. Accurate device positioning is therefore crucial for accurate and repeatable measurements. The positions in which the devices must be measured are defined by the standards.



4. Tissue Simulating Liquids

4.1 Simulating Liquids Parameter Check

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

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

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

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

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



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

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

**LIQUID MEASUREMENT RESULTS**

Date	Ambient		Simulating Liquid		Parameters	Target	Measured	Deviation %	Limited %
	Temp. [°C]	Humidity %	Frequency (MHz)	Temp. [°C]					
2026-03-02	22.5	51	708	23.7	Permittivity	42.13	42.71	1.38	±5
					Conductivity	0.89	0.88	-0.81	±5
2026-03-02	22.5	51	710	23.7	Permittivity	41.95	42.44	1.16	±5
					Conductivity	0.89	0.89	0.07	±5
2026-03-02	22.5	51	750	23.7	Permittivity	41.90	42.95	2.51	±5
					Conductivity	0.89	0.89	0.00	±5
2026-03-02	22.5	51	782	23.7	Permittivity	41.73	41.77	0.10	±5
					Conductivity	0.89	0.89	-0.24	±5
2026-03-01	22.7	43	826.5	22.9	Permittivity	41.54	41.12	-1.01	±5
					Conductivity	0.90	0.92	2.34	±5
2026-03-01	22.7	43	829	23.0	Permittivity	41.53	41.30	-0.55	±5
					Conductivity	0.90	0.92	2.30	±5
2026-03-01	22.7	43	835	23.0	Permittivity	41.50	41.32	-0.43	±5
					Conductivity	0.90	0.90	0.00	±5
2026-03-01	22.7	43	836.8	23.0	Permittivity	41.49	41.77	0.67	±5
					Conductivity	0.90	0.90	-0.02	±5
2026-03-01	22.7	43	844	23.1	Permittivity	41.46	42.04	1.40	±5
					Conductivity	0.90	0.90	-0.12	±5
2026-03-01	22.7	43	846.5	23.1	Permittivity	41.45	41.22	-0.55	±5
					Conductivity	0.90	0.89	-1.26	±5
2026-03-04	23.5	55	1712.5	22.1	Permittivity	40.13	41.02	2.23	±5
					Conductivity	1.35	1.36	0.74	±5
2026-03-04	23.5	55	1720	22.0	Permittivity	40.11	39.98	-0.33	±5
					Conductivity	1.35	1.35	-0.32	±5
2026-03-04	23.5	55	1732.5	22.1	Permittivity	40.10	40.96	2.15	±5
					Conductivity	1.36	1.35	-0.84	±5
2026-03-04	23.5	55	1745	22.1	Permittivity	40.08	40.13	0.13	±5
					Conductivity	1.37	1.37	0.10	±5
2026-03-04	23.5	55	1752.5	22.0	Permittivity	40.07	40.69	1.55	±5
					Conductivity	1.37	1.36	-0.94	±5
2026-03-04	23.5	55	1800	22.2	Permittivity	40.00	39.74	-0.65	±5
					Conductivity	1.40	1.41	0.71	±5
2026-03-04	23.5	55	1860	22.2	Permittivity	40.00	40.84	2.10	±5
					Conductivity	1.40	1.40	0.00	±5



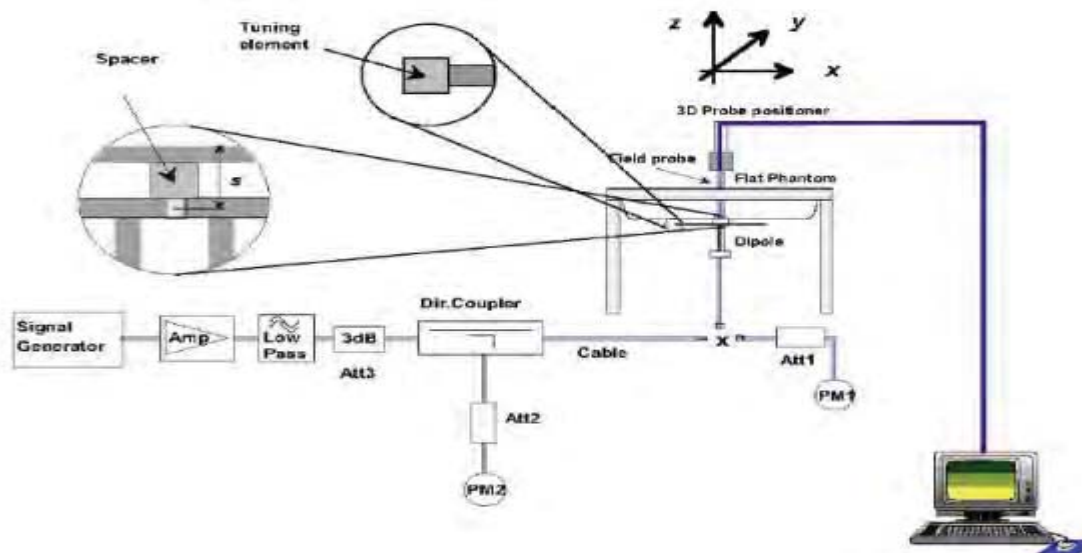
2026-03-04	23.5	55	1880	22.3	Permittivity	40.00	40.22	0.55	±5
					Conductivity	1.40	1.40	0.00	±5
2026-03-04	23.5	55	1900	22.3	Permittivity	40.00	39.82	-0.45	±5
					Conductivity	1.40	1.40	0.00	±5
2026-03-05	22.9	47	2437	22.8	Permittivity	39.22	39.59	0.94	±5
					Conductivity	1.79	1.79	0.09	±5
2026-03-05	22.9	47	2450	22.1	Permittivity	39.20	39.83	1.61	±5
					Conductivity	1.80	1.78	-1.11	±5
2026-03-05	22.9	47	2510	22.1	Permittivity	39.12	38.70	-1.07	±5
					Conductivity	1.86	1.84	-1.29	±5
2026-03-05	22.9	47	2535	22.1	Permittivity	39.09	39.78	1.77	±5
					Conductivity	1.89	1.89	-0.04	±5
2026-03-05	22.9	47	2555	22.1	Permittivity	39.06	39.40	0.87	±5
					Conductivity	1.91	1.91	-0.10	±5
2026-03-05	22.9	47	2560	22.3	Permittivity	39.05	39.08	0.07	±5
					Conductivity	1.92	1.92	0.14	±5
2026-03-05	22.9	47	2580	22.4	Permittivity	39.03	40.10	2.75	±5
					Conductivity	1.94	1.93	-0.41	±5
2026-03-05	22.9	47	2595	22.5	Permittivity	39.01	39.54	1.37	±5
					Conductivity	1.95	1.95	-0.23	±5
2026-03-05	22.9	47	2600	22.5	Permittivity	39.00	38.79	-0.54	±5
					Conductivity	1.96	1.97	0.51	±5
2026-03-05	22.9	47	2610	22.5	Permittivity	38.99	39.65	1.70	±5
					Conductivity	1.97	1.99	0.96	±5
2026-03-27	23.0	40	5200	21.7	Permittivity	36.00	36.24	0.67	±5
					Conductivity	4.66	4.65	-0.21	±5
2026-03-28	23.3	40	5290	21.7	Permittivity	35.91	36.29	1.06	±5
					Conductivity	4.75	4.75	0.00	±5
2026-03-28	23.3	40	5300	21.7	Permittivity	35.80	35.75	-0.14	±5
					Conductivity	4.86	4.85	-0.21	±5
2026-03-28	23.3	40	5600	22.0	Permittivity	35.55	36.08	1.49	±5
					Conductivity	5.07	5.07	0.10	±5
2026-03-27	23.0	40	5785	23.5	Permittivity	35.30	35.93	1.78	±5
					Conductivity	5.27	5.25	-0.38	±5
2026-03-27	23.0	40	5800	23.5	Permittivity	35.30	36.23	2.63	±5
					Conductivity	5.27	5.27	0.00	±5

5. SAR System Validation

5.1 Validation System

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

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





5.2 Validation Result

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

Date	Frequency (MHz)	Power	SAR _{1g} (W/Kg)	SAR _{10g} (W/Kg)	Drift (%)	1W Target		Difference percentage		Limited %
						SAR _{1g} (W/Kg)	SAR _{10g} (W/Kg)	1g	10g	
2026-03-02	750	100 mW	0.774	0.519	3.85	8.49	5.53	-8.85%	-6.08%	10
		Normalize to 1 Watt	7.74	5.19						
2026-03-01	835	100 mW	0.904	0.641	0.03	9.63	6.15	-6.14%	4.19%	10
		Normalize to 1 Watt	9.04	6.41						
2026-03-04	1800	100 mW	3.814	2.086	-2.13	37.95	20.49	0.50%	1.80%	10
		Normalize to 1 Watt	38.14	20.86						
2026-03-04	1900	100 mW	3.954	2.068	-2.63	39.84	20.20	-0.75%	2.40%	10
		Normalize to 1 Watt	39.54	20.68						
2026-03-05	2450	100 mW	5.525	2.448	3.26	54.70	24.11	1.01%	1.52%	10
		Normalize to 1 Watt	55.25	24.48						
2026-03-05	2600	100 mW	5.544	2.411	2.42	56.19	24.08	-1.33%	0.11%	10
		Normalize to 1 Watt	55.44	24.11						
2026-03-27	5200	10 mW	1.698	0.605	2.79	163.88	57.29	3.63%	5.53%	10
		Normalize to 1 Watt	169.82	60.46						
2026-03-28	5400	10 mW	1.656	0.595	0.03	172.23	59.16	-3.85%	0.51%	10
		Normalize to 1 Watt	165.60	59.46						
2026-03-28	5600	10 mW	1.893	0.643	3.13	181.28	61.57	4.41%	4.42%	10
		Normalize to 1 Watt	189.27	64.29						
2026-03-27	5800	10 mW	1.975	0.643	-1.00	188.95	63.45	4.54%	1.28%	10
		Normalize to 1 Watt	197.52	64.26						

Note:

- (1) We use a CW signal of 20dBm(750/835/1800/1900/2450/2600MHz) and 10dBm(5000-6000MHz) for system check, and then all SAR values are normalized to 1W forward power. The result must be within $\pm 10\%$ of target value.



6. SAR Evaluation Procedures

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

The following steps are used for each test position

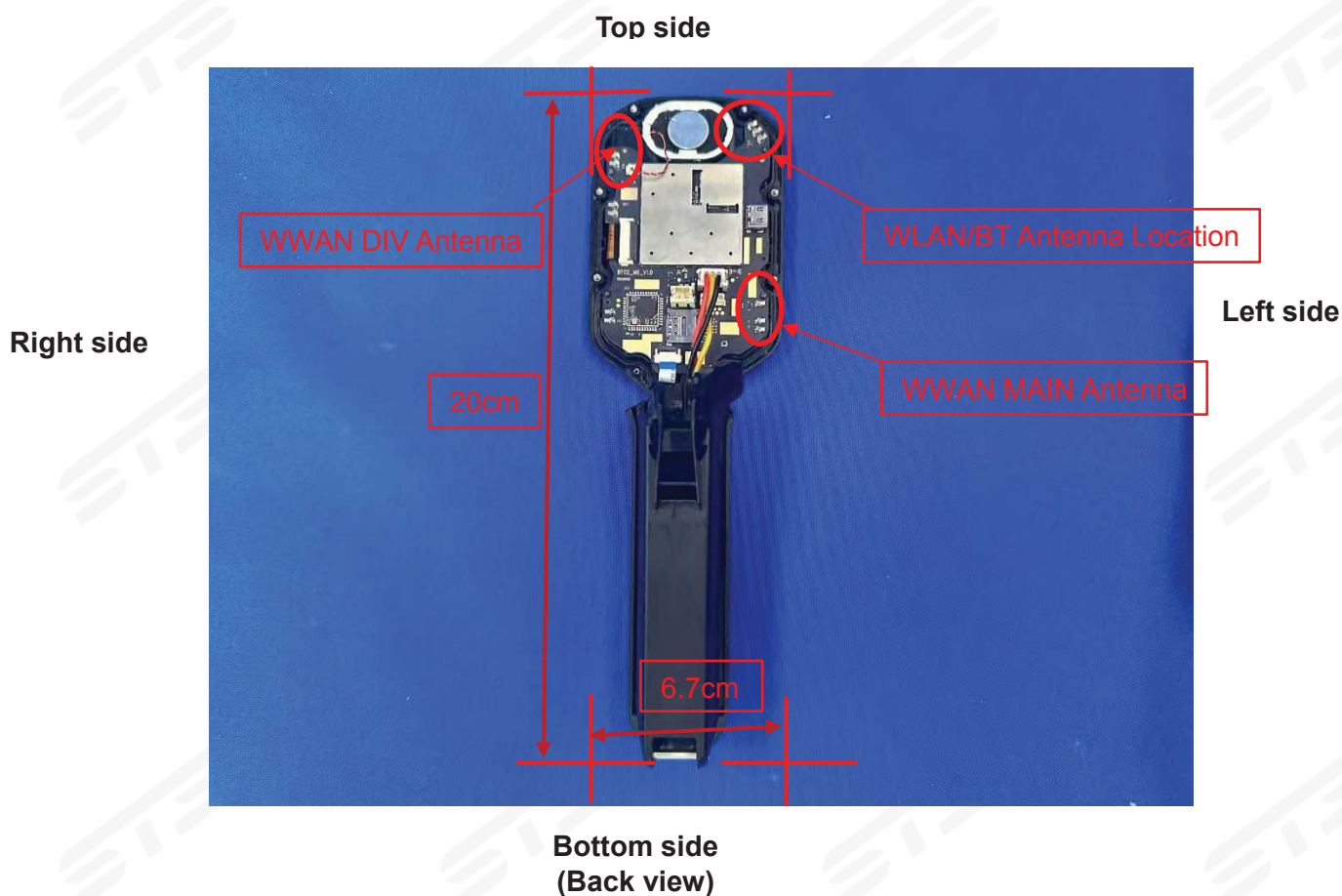
- Establish a call with the maximum output power with a base station simulator. The connection between the mobile and the base station simulator is established via air interface
- Measurement of the local E-field value at a fixed location. This value serves as a reference value for calculating a possible power drift.
- Measurement of the SAR distribution with a grid of 8 to 16mm * 8 to 16 mm and a constant distance to the inner surface of the phantom. Since the sensors cannot directly measure at the inner phantom surface, the values between the sensors and the inner phantom surface are extrapolated. With these values the area of the maximum SAR is calculated by an interpolation scheme.
- Around this point, a cube of 30 * 30 * 30 mm or 32 * 32 * 32 mm is assessed by measuring 5 or 8 * 5 or 8*4 or 5 mm. With these data, the peak spatial-average SAR value can be calculated.

➤ Area Scan& Zoom Scan

First Area Scan is used to locate the approximate location(s) of the local peak SAR value(s). The measurement grid within an Area Scan is defined by the grid extent, grid step size and grid offset. Next, in order to determine the EM field distribution in a three-dimensional spatial extension, Zoom Scan is required. The Zoom Scan is performed around the highest E-field value to determine the averaged SAR-distribution over 10 g. Area scan and zoom scan resolution setting follows KDB 865664 D01 quoted below. When the 1-g SAR of the highest peak is within 2 dB of the SAR limit, additional zoom scans are required for other peaks within 2 dB of the highest peak that have not been included in any zoom scan to ensure there is no increase in SAR.

7. EUT Antenna Location Sketch

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



Antenna Separation Distance(cm)						
ANT	Back Side	Front Side	Left Side	Right Side	Top Side	Bottom Side
WLAN/BT	0.5	0.5	0.5	4.3	0.5	16.4
WWAN-Main	0.5	0.5	0.5	6	4.5	12.4
WWAN-Aux	0.5	0.5	6	0.5	0.5	15.5
NFC	0.5	1.5	2.5	1.4	1.2	15

Note:

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

**7.1 SAR test exclusion consider table**

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

Exposure Position	Wireless Interface	WCDMA II	WCDMA IV	WCDMA V	LTE Band 2	LTE Band 4
Exposure Position	Calculated Frequency(GHz)	1.8524	1.7524	0.8466	1.86	1.745
	Maximum Turn-up power (dBm)	23.5	24.5	24	24.5	25
	Maximum rated power(mW)	223.87	281.84	251.19	281.84	316.23
Back Side	Separation distance (cm)	0.5	0.5	0.5	0.5	0.5
	exclusion threshold(mW)	3.43	3.27	6.43	3.42	3.60
	Testing required?	YES	YES	YES	YES	YES
Front Side	Separation distance (cm)	0.5	0.5	0.5	0.5	0.5
	exclusion threshold(mW)	3.43	3.27	6.43	3.42	3.60
	Testing required?	YES	YES	YES	YES	YES
Left Side	Separation distance (cm)	0.5	0.5	0.5	0.5	0.5
	exclusion threshold(mW)	3.43	3.27	6.43	3.42	3.60
	Testing required?	YES	YES	YES	YES	YES
Right Side	Separation distance (cm)	6	6	6	6	6
	exclusion threshold(mW)	333.33	364.25	409.05	332.97	338.57
	Testing required?	NO	NO	NO	NO	NO
Top Side	Separation distance (cm)	4.5	4.5	4.5	4.5	4.5
	exclusion threshold(mW)	196.25	211.06	252.90	195.99	200.08
	Testing required?	YES	YES	NO	YES	YES
Bottom Side	Separation distance (cm)	12.4	12.4	12.4	12.4	12.4
	exclusion threshold(mW)	1268.89	1443.59	1376.33	1268.35	1276.78
	Testing required?	NO	NO	NO	NO	NO



Exposure Position	Wireless Interface	LTE Band 5	LTE Band 7	LTE Band 12	LTE Band 13	LTE Band 17
	Calculated Frequency(GHz)	0.844	2.56	0.704	0.711	0.711
	Maximum Turn-up power (dBm)	25	24.5	24.5	24.5	25
	Maximum rated power(mW)	316.23	281.84	281.84	281.84	316.23
Back Side	Separation distance (cm)	0.5	0.5	0.5	0.5	0.5
	exclusion threshold(mW)	9.11	2.65	11.75	11.59	11.59
	Testing required?	YES	YES	YES	YES	YES
Front Side	Separation distance (cm)	0.5	0.5	0.5	0.5	0.5
	exclusion threshold(mW)	9.11	2.65	11.75	11.59	11.59
	Testing required?	YES	YES	YES	YES	YES
Left Side	Separation distance (cm)	0.5	0.5	0.5	0.5	0.5
	exclusion threshold(mW)	9.11	2.65	11.75	11.59	11.59
	Testing required?	YES	YES	YES	YES	YES
Right Side	Separation distance (cm)	6	6	6	6	6
	exclusion threshold(mW)	311.15	306.29	299.21	299.85	299.85
	Testing required?	YES	NO	NO	NO	YES
Top Side	Separation distance (cm)	4.5	4.5	4.5	4.5	4.5
	exclusion threshold(mW)	206.74	176.72	205.68	205.74	205.74
	Testing required?	YES	YES	YES	YES	YES
Bottom Side	Separation distance (cm)	12.4	12.4	12.4	12.4	12.4
	exclusion threshold(mW)	872.90	1226.98	770.41	775.68	775.68
	Testing required?	NO	NO	NO	NO	NO



Exposure Position	Wireless Interface	LTE Band 38	LTE Band 41	LTE Band 66	BT	NFC
	Calculated Frequency(GHz)	2.61	2.58	1.77	2.441	0.01356
	Maximum Turn-up power (dBm)	24.5	24	24.5	2	-43.5
	Maximum rated power(mW)	281.84	251.19	281.84	1.58	0.00
Back Side	Separation distance (cm)	0.5	0.5	0.5	0.5	0.5
	exclusion threshold(mW)	2.61	2.63	3.56	2.75	176.28
	Testing required?	YES	YES	YES	NO	NO
Front Side	Separation distance (cm)	0.5	0.5	0.5	0.5	0.5
	exclusion threshold(mW)	2.61	2.63	3.56	2.75	176.28
	Testing required?	YES	YES	YES	NO	NO
Left Side	Separation distance (cm)	0.5	0.5	0.5	7	7
	exclusion threshold(mW)	2.61	2.63	3.56	415.75	1358.21
	Testing required?	YES	YES	YES	NO	NO
Right Side	Separation distance (cm)	6	6	6	4.3	4.3
	exclusion threshold(mW)	304.75	305.67	337.32	164.61	931.60
	Testing required?	NO	NO	NO	NO	NO
Top Side	Separation distance (cm)	4.5	4.5	4.5	0.5	0.5
	exclusion threshold(mW)	175.62	176.28	199.16	2.75	176.28
	Testing required?	YES	YES	YES	NO	NO
Bottom Side	Separation distance (cm)	12.4	12.4	12.4	16.4	16.4
	exclusion threshold(mW)	1224.52	1225.99	1274.90	2098.22	2624.46
	Testing required?	NO	NO	NO	NO	NO



Exposure Position	Wireless Interface	2.4G WLAN	5.2G WLAN	5.3G WLAN	5.6G WLAN	5.8G WLAN
	Calculated Frequency(GHz)	2.442	5.24	5.32	5.5	5.825
	Maximum Turn-up power (dBm)	19.5	14	13.5	13	13
	Maximum rated power(mW)	89.13	25.12	22.39	19.95	19.95
Back Side	Separation distance (cm)	0.5	0.5	0.5	0.5	0.5
	exclusion threshold(mW)	2.75	1.49	1.47	1.44	1.37
	Testing required?	YES	YES	YES	YES	YES
Front Side	Separation distance (cm)	0.5	0.5	0.5	0.5	0.5
	exclusion threshold(mW)	2.75	1.49	1.47	1.44	1.37
	Testing required?	YES	YES	YES	YES	YES
Left Side	Separation distance (cm)	7	7	7	7	7
	exclusion threshold(mW)	415.71	349.30	348.10	345.47	340.98
	Testing required?	NO	NO	NO	NO	NO
Right Side	Separation distance (cm)	4.3	4.3	4.3	4.3	4.3
	exclusion threshold(mW)	164.59	127.56	126.92	125.51	123.13
	Testing required?	NO	NO	NO	NO	NO
Top Side	Separation distance (cm)	0.5	0.5	0.5	0.5	0.5
	exclusion threshold(mW)	2.75	1.49	1.47	1.44	1.37
	Testing required?	YES	YES	YES	YES	YES
Bottom Side	Separation distance (cm)	16.4	16.4	16.4	16.4	16.4
	exclusion threshold(mW)	2098.1 8	2030.2 7	2028.9 5	2026.0 4	2021.03
	Testing required?	NO	NO	NO	NO	NO

Note:

1. maximum power is the source-based time-average power and represents the maximum RF output power among production units.
2. Per KDB 447498 D04, for larger devices, the test separation distance of adjacent edge configuration is determined by the closest separation between the antenna and the user.
3. Per KDB 447498 D04, if the maximum time-averaged power available does not exceed 1 mW. This stand-alone SAR exemption test.



4. Per KDB 447498 D04, the available maximum time-averaged power or effective radiated power (ERP), whichever is greater, is less than or equal to the threshold P_{th} (mW) described in the following formula. This method shall only be used at separation distances (cm) from 0.5 centimeters to 40 centimeters and at frequencies from 0.3 GHz to 6 GHz (inclusive). P_{th} is given by:

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

Where

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

and

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

d = the separation distance (cm);

5. Per KDB 447498 D04, An alternative to the SAR-based exemption is using below table and the minimum separation distance (R in meters) from the body of a nearby person for the frequency (f in MHz) at which the source operates, the ERP (watts) is no more than the calculated value prescribed for that frequency. For the exemption in below table to apply, R must be at least $\lambda/2\pi$, where λ is the free-space operating wavelength in meters. If the ERP of a single RF source is not easily obtained, then the available maximum time-averaged power may be used in lieu of ERP if the physical dimensions of the radiating structure(s) do not exceed the electrical length of $\lambda/4$ or if the antenna gain is less than that of a half-wave dipole (1.64 linear value).

RF Source frequency (MHz)	Threshold ERP(watts)
0.3-1.34	$1,920 R^2$.
1.34-30	$3,450 R^2/f^2$.
30-300	$3.83 R^2$.
300-1,500	$0.0128 R^2 f$.
1,500-100,000	$19.2 R^2$.



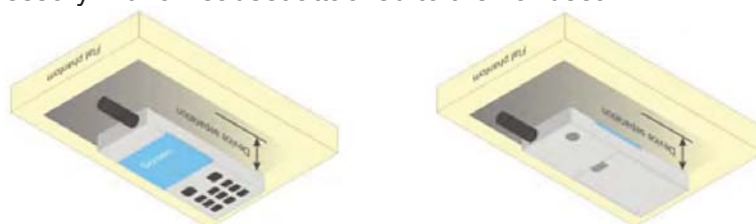
6. Per KDB 248227 D01, choose the highest output power channel to test SAR and determine further SAR exclusion 8. for each frequency band, testing at higher data rates and higher order modulations is not required when the maximum average output power for each of each of these configurations is less than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

8. EUT Test Position

This EUT was tested in **Body front, Body back. and 4 edges.**

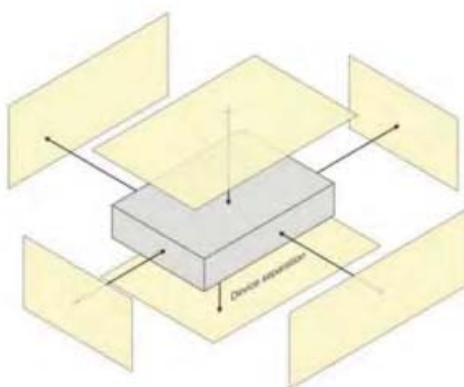
8.1 Body-worn Position Conditions:

Body-worn accessory exposure is typically related to voice mode operations when handsets are carried in body-worn accessories. The body-worn accessory procedures in KDB Publication 447498 D04 should be used to test for body-worn accessory SAR compliance, without a headset connected to it. When the same wireless transmission configuration is used for testing body-worn accessory and hotspot mode SAR, respectively, in voice and data mode, SAR results for the most conservative *test separation distance* configuration may be used to support both SAR conditions. When the *reported* SAR for a body-worn accessory, measured without a headset connected to the handset, is $> 1.2 \text{ W/kg}$, the highest *reported* SAR configuration for that wireless mode and frequency band should be repeated for the body-worn accessory with a headset attached to the handset.



8.2 Hotspot mode exposure position condition

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





9. Uncertainty

9.1 Measurement Uncertainty

The following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in IEEE 1528: 2013. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

SATIMO Uncertainty- SN 08/21 EPGO352									
Measurement uncertainty for DUT averaged over 1 gram / 10 gram.									
Uncertainty Component	Sec.	Tol (+/- %)	Prob. Dist.	Div.	Ci (1g)	Ci (10g)	1g Ui (+/- %)	10g Ui (+/- %)	vi
Measurement System									
Probe calibration	E.2.1	5.72	N	1.00	1.00	1.00	5.72	5.72	∞
Axial Isotropy	E.2.2	0.18	R	1.73	0.71	0.71	0.07	0.07	∞
Hemispherical Isotropy	E.2.2	1.04	R	1.73	0.71	0.71	0.42	0.42	∞
Boundary effect	E.2.3	0.80	R	1.73	1.00	1.00	0.46	0.46	∞
Linearity	E.2.4	1.25	R	1.73	1.00	1.00	0.72	0.72	∞
System detection limits	E.2.4	1.20	R	1.73	1.00	1.00	0.69	0.69	∞
Modulation response	E.2.5	3.42	R	1.73	1.00	1.00	1.97	1.97	∞
Readout Electronics	E.2.6	0.26	N	1.00	1.00	1.00	0.26	0.26	∞
Response Time	E.2.7	0.17	R	1.73	1.00	1.00	0.10	0.10	∞
Integration Time	E.2.8	1.43	R	1.73	1.00	1.00	0.83	0.83	∞
RF ambient conditions-Noise	E.6.1	3.51	R	1.73	1.00	1.00	2.03	2.03	∞
RF ambient conditions-reflections	E.6.1	3.15	R	1.73	1.00	1.00	1.82	1.82	∞
Probe positioner mechanical tolerance	E.6.2	1.20	R	1.73	1.00	1.00	0.69	0.69	∞
Probe positioning with respect to phantom shell	E.6.3	1.40	R	1.73	1.00	1.00	0.81	0.81	∞
Extrapolation, interpolation, and integrations algorithms for max. SAR evaluation	E.5	2.10	R	1.73	1.00	1.00	1.21	1.21	∞
Test sample Related									
Test sample positioning	E.4.2	3.10	N	1.00	1.00	1.00	3.10	3.10	∞
Device holder uncertainty	E.4.1	3.80	N	1.00	1.00	1.00	3.80	3.80	∞
Output power variation—SAR drift measurement	E.2.9	4.50	R	1.73	1.00	1.00	2.60	2.60	∞
SAR scaling	E.6.5	1.80	R	1.73	1.00	1.00	1.04	1.04	∞
Phantom and tissue parameters									
Phantom shell uncertainty—shape, thickness, and permittivity	E.3.1	3.70	R	1.73	1.00	1.00	2.14	2.14	∞
Uncertainty in SAR correction for deviations in permittivity and conductivity	E.3.2	1.90	N	1.00	1.00	0.84	1.90	1.60	∞
Liquid conductivity measurement	E.3.3	2.40	R	1.73	0.78	0.71	1.08	0.98	M
Liquid permittivity measurement	E.3.3	4.10	N	1.00	0.78	0.71	3.20	2.91	M
Liquid conductivity—temperature uncertainty	E.3.4	2.70	R	1.73	0.23	0.26	0.36	0.41	∞
Liquid permittivity—temperature uncertainty	E.3.4	4.80	N	1.00	0.23	0.26	1.10	1.25	∞
Combined Standard Uncertainty			RSS				10.08	9.59	
Expanded Uncertainty (95% Confidence interval)			K=2				19.58	19.18	



SATIMO Uncertainty- SN 08/21 EPGO352									
System Validation uncertainty for DUT averaged over 1 gram / 10 gram.									
Uncertainty Component	Sec.	Tol (+ - %)	Prob. Dist.	Div.	Ci (1g)	Ci (10g)	1g Ui (+- %)	10g Ui (+-%)	vi
Measurement System									
Probe calibration	E.2.1	5.72	N	1.00	1.00	1.00	5.72	5.72	∞
Axial Isotropy	E.2.2	0.18	R	1.73	1.00	1.00	0.10	0.10	∞
Hemispherical Isotropy	E.2.2	1.04	R	1.73	0.00	0.00	0.00	0.00	∞
Boundary effect	E.2.3	0.80	R	1.73	1.00	1.00	0.46	0.46	∞
Linearity	E.2.4	1.25	R	1.73	1.00	1.00	0.72	0.72	∞
System detection limits	E.2.4	1.20	R	1.73	1.00	1.00	0.69	0.69	∞
Modulation response	E.2.5	3.42	R	1.73	0.00	0.00	0.00	0.00	∞
Readout Electronics	E.2.6	0.26	N	1.00	1.00	1.00	0.26	0.26	∞
Response Time	E.2.7	0.17	R	1.73	0.00	0.00	0.00	0.00	∞
Integration Time	E.2.8	1.43	R	1.73	0.00	0.00	0.00	0.00	∞
RF ambient conditions- Noise	E.6.1	3.51	R	1.73	1.00	1.00	2.03	2.03	∞
RF ambient conditions- reflections	E.6.1	3.15	R	1.73	1.00	1.00	1.82	1.82	∞
Probe positioner mechanical tolerance	E.6.2	1.20	R	1.73	1.00	1.00	0.69	0.69	∞
Probe positioning with respect to phantom shell	E.6.3	1.40	R	1.73	1.00	1.00	0.81	0.81	∞
Extrapolation, interpolation, and integrations algorithms for max. SAR evaluation	E.5	2.10	R	1.73	1.00	1.00	1.21	1.21	∞
System validation source									
Deviation of experimental dipole from numerical dipole	E.6.4	4.80	N	1.00	1.00	1.00	4.80	4.80	∞
Input power and SAR drift measurement	8,6.6.4	5.10	R	1.73	1.00	1.00	2.94	2.94	∞
Dipole axis to liquid distance	8,E.6.6	2.40	R	1.73	1.00	1.00	1.39	1.39	∞
Phantom and set-up									
Phantom shell uncertainty— shape, thickness, and permittivity	E.3.1	3.70	R	1.73	1.00	1.00	2.14	2.14	∞
Uncertainty in SAR correction for deviations in permittivity and conductivity	E.3.2	1.90	N	1.00	1.00	0.84	1.90	1.60	∞
Liquid conductivity (temperature uncertainty)	E.3.3	2.40	R	1.73	0.78	0.71	1.08	0.98	∞
Liquid conductivity (measured)	E.3.3	4.10	N	1.00	0.78	0.71	3.20	2.91	M
Liquid permittivity (temperature uncertainty)	E.3.4	2.70	R	1.73	0.23	0.26	0.36	0.41	∞
Liquid permittivity (measured)	E.3.4	4.80	N	1.00	0.23	0.26	1.10	1.25	M
Combined Standard Uncertainty			RSS				9.72	9.52	
Expanded Uncertainty (95% Confidence interval)			K=2				19.44	19.03	



SATIMO Uncertainty- SN 08/21 EPG0352									
。 System Check uncertainty for DUT averaged over 1 gram / 10 gram.									
Uncertainty Component	Sec.	Tol (+ - %)	Prob. Dist.	Div.	Ci (1g)	Ci (10g)	1g Ui (+- %)	10g Ui (+-%)	vi
Measurement System									
Probe calibration drift	E.2.1.3	5.72	N	1.00	1.00	1.00	5.72	5.72	∞
Axial Isotropy	E.2.2	0.18	R	1.73	0.00	0.00	0.00	0.00	∞
Hemispherical Isotropy	E.2.2	1.04	R	1.73	0.00	0.00	0.00	0.00	∞
Boundary effect	E.2.3	0.8	R	1.73	0.00	0.00	0.00	0.00	∞
Linearity	E.2.4	1.25	R	1.73	0.00	0.00	0.00	0.00	∞
System detection limits	E.2.4	1.20	R	1.73	0.00	0.00	0.00	0.00	∞
Modulation response	E.2.5	3.42	R	1.73	0.00	0.00	0.00	0.00	∞
Readout Electronics	E.2.6	0.26	N	1.00	0.00	0.00	0.00	0.00	∞
Response Time	E.2.7	0.17	R	1.73	0.00	0.00	0.00	0.00	∞
Integration Time	E.2.8	1.43	R	1.73	0.00	0.00	0.00	0.00	∞
RF ambient conditions- Noise	E.6.1	3.51	R	1.73	0.00	0.00	0.00	0.00	∞
RF ambient conditions- reflections	E.6.1	3.15	R	1.73	0.00	0.00	0.00	0.00	∞
Probe positioner mechanical tolerance	E.6.2	1.2	R	1.73	1.00	1.00	0.69	0.69	∞
Probe positioning with respect to phantom shell	E.6.3	1.4	R	1.73	1.00	1.00	0.81	0.81	∞
Extrapolation, interpolation, and integrations algorithms for max. SAR evaluation	E.5	3.9	R	1.73	0.00	0.00	0.00	0.00	∞
System check source (dipole)									
Deviation of experimental dipoles	E.6.4	4.8	N	1.00	1.00	1.00	4.80	4.80	∞
Input power and SAR drift measurement	8,6.6.4	5.1	R	1.73	1.00	1.00	2.94	2.94	∞
Dipole axis to liquid distance	8,E.6.6	2.4	R	1.73	1.00	1.00	1.39	1.39	∞
Phantom and tissue parameters									
Phantom shell uncertainty— shape, thickness, and permittivity	E.3.1	3.7	R	1.73	1.00	1.00	2.14	2.14	∞
Uncertainty in SAR correction for deviations in permittivity and conductivity	E.3.2	1.9	N	1.00	1.00	0.84	1.90	1.60	∞
Liquid conductivity measurement	E.3.3	2.4	R	1.73	0.78	0.71	1.08	0.98	∞
Liquid permittivity measurement	E.3.3	4.1	N	1.00	0.78	0.71	3.20	2.91	M
Liquid conductivity— temperature uncertainty	E.3.4	2.7	R	1.73	0.23	0.26	0.36	0.41	∞
Liquid permittivity— temperature uncertainty	E.3.4	4.8	N	1.00	0.23	0.26	1.10	1.25	M
Combined Standard Uncertainty			RSS				5.56	5.20	
Expanded Uncertainty (95% Confidence interval)			K=2				11.12	10.41	



10. Conducted Power Measurement

10.1 Test Result

WCDMA

Band	WCDMA Band 2			WCDMA Band 4			WCDMA Band 5		
Channel	9262	9400	9538	1312	1413	1513	4132	4183	4233
Frequency (MHz)	1852.4	1880	1907.6	1712.6	1740	1752.4	826.4	836.6	846.6
RMC 12.2Kbps	23.44	23.32	23.32	23.82	23.95	24.10	23.44	23.42	23.53
HSDPA Subtest-1	22.45	22.18	20.99	22.86	22.44	21.68	22.48	22.05	20.44
HSDPA Subtest-2	20.97	22.38	22.09	21.44	22.99	22.53	20.8	22.49	21.99
HSDPA Subtest-3	21.01	20.69	22.39	21.53	21.68	23.09	21.12	20.98	22.57
HSDPA Subtest-4	22.09	20.94	20.69	22.80	21.66	21.72	21.95	21.09	21.4
HSUPA Subtest-1	22.23	22.39	21.10	22.60	22.75	21.38	22.19	22.36	21.18
HSUPA Subtest-2	22.48	21.76	22.23	22.87	22.02	22.74	22.4	21.57	22.27
HSUPA Subtest-3	22.34	20.83	22.37	22.81	21.52	23.03	22.39	21.1	22.42
HSUPA Subtest-4	21.67	22.22	22.39	22.25	22.87	23.01	21.88	22.31	22.42
HSUPA Subtest-5	21.16	22.40	21.77	21.68	23.15	22.20	21.32	22.53	21.78

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

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

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

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

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

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

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

**2.4G WLAN**

2.4GWIFI				
Mode	Channel Number	Frequency (MHz)	Average Power (dBm)	Output Power (mW)
802.11b	1	2412	16.89	48.87
	7	2437	16.83	48.19
	11	2462	16.30	42.66
802.11g	1	2412	17.29	53.58
	7	2437	16.89	48.87
	11	2462	16.71	46.88
802.11 n-HT20	1	2412	19.12	81.66
	7	2437	18.38	68.87
	11	2462	18.22	66.37
802.11 n-HT40	3	2422	17.85	60.95
	6	2437	17.42	55.21
	9	2452	17.38	54.70

Bluetooth

BT				
Mode	Channel Number	Frequency (MHz)	Average Power (dBm)	Output Power (mW)
GFSK(1Mbps)	0	2402	1.02	1.26
	39	2441	1.06	1.28
	78	2480	0.46	1.11
$\pi/4$ -QPSK(2Mbps)	0	2402	0.88	1.22
	39	2441	0.99	1.26
	78	2480	0.40	1.10
8DPSK(3Mbps)	0	2402	1.42	1.39
	39	2441	1.07	1.28
	78	2480	0.27	1.06

**BLE**

BLE				
Mode	Channel Number	Frequency (MHz)	Average Power (dBm)	Output Power (mW)
GFSK(1Mbps)	0	2402	1.95	1.57
	19	2440	1.62	1.45
	39	2480	1.92	1.56
GFSK(2Mbps)	0	2402	1.97	1.57
	19	2440	1.60	1.45
	39	2480	1.89	1.55

NFC

NFC			
Mode	Frequency (MHz)	Conducted Power (dBm)	Output Power (mW)
ASK	13.56	-44.12	0



WLAN (5.2Gband)

5.2G WLAN				
Mode	Channel Number	Frequency (MHz)	Average Power (dBm)	Output Power (mW)
802.11a	36	5180	12.48	17.70
	40	5200	12.66	18.45
	48	5240	12.17	16.48
802.11 n-HT20	36	5180	13.49	22.34
	40	5200	13.75	23.71
	48	5240	13.06	20.23
802.11 n-HT40	38	5190	13.15	20.65
	46	5230	12.68	18.54
802.11ac-VHT20	36	5180	12.54	17.95
	40	5200	12.81	19.10
	48	5240	12.50	17.78
802.11ac-VHT40	38	5190	12.90	19.50
	46	5230	12.28	16.90
802.11ac-VHT80	42	5210	13.38	21.78



WLAN (5.3Gband)

5.3G WLAN				
Mode	Channel Number	Frequency (MHz)	Average Power (dBm)	Output Power (mW)
802.11a	52	5260	12.43	17.50
	60	5300	12.49	17.74
	64	5320	12.61	18.24
802.11 n-HT20	52	5260	12.85	19.28
	60	5300	12.93	19.63
	64	5320	13.05	20.18
802.11 n-HT40	54	5270	12.78	18.97
	62	5310	12.89	19.45
802.11ac-VHT20	52	5260	11.83	15.24
	60	5300	11.91	15.52
	64	5320	12.00	15.85
802.11ac-VHT40	54	5270	12.07	16.11
	62	5310	12.29	16.94
802.11ac-VHT80	58	5290	12.21	16.63



WLAN (5.6Gband)

5.6G WLAN				
Mode	Channel Number	Frequency (MHz)	Average Power (dBm)	Output Power (mW)
802.11a	100	5500	11.38	13.74
	116	5580	10.51	11.25
	140	5700	10.10	10.23
802.11 n-HT20	100	5500	12.92	19.59
	116	5580	12.11	16.26
	140	5700	11.63	14.55
802.11 n-HT40	102	5510	12.39	17.34
	110	5550	11.89	15.45
	134	5670	11.14	13.00
802.11ac-VHT20	100	5500	11.91	15.52
	116	5580	11.04	12.71
	140	5700	10.65	11.61
802.11ac-VHT40	102	5510	12.27	16.87
	110	5550	11.83	15.24
	134	5670	11.07	12.79
802.11ac-VHT80	106	5530	12.19	16.56
	122	5610	11.71	14.83



WLAN (5.8Gband)

5.3G WLAN				
Mode	Channel Number	Frequency (MHz)	Average Power (dBm)	Output Power (mW)
802.11a	52	5260	12.43	17.50
	60	5300	12.49	17.74
	64	5320	12.61	18.24
802.11 n-HT20	52	5260	12.85	19.28
	60	5300	12.93	19.63
	64	5320	13.05	20.18
802.11 n-HT40	54	5270	12.78	18.97
	62	5310	12.89	19.45
802.11ac-VHT20	52	5260	11.83	15.24
	60	5300	11.91	15.52
	64	5320	12.00	15.85
802.11ac-VHT40	54	5270	12.07	16.11
	62	5310	12.29	16.94
802.11ac-VHT80	58	5290	12.21	16.63



LTE Conducted Power

General Note:

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



LTE Band 2

LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	23.85	23.86	23.97
1.4	1	2		24.03	24.00	24.17
1.4	1	5		23.85	23.90	24.00
1.4	3	0		24.00	24.01	24.06
1.4	3	1		24.00	23.96	24.06
1.4	3	2		24.00	23.96	24.05
1.4	6	0		22.94	22.90	22.97
1.4	1	0	16-QAM	22.94	23.19	22.86
1.4	1	2		23.12	23.35	22.92
1.4	1	5		22.92	23.20	22.87
1.4	3	0		23.02	23.20	23.06
1.4	3	1		23.09	23.16	23.06
1.4	3	2		23.04	23.18	23.08
1.4	6	0		22.20	22.03	22.11
3	1	0	QPSK	23.94	23.84	23.92
3	1	7		24.22	24.16	24.35
3	1	14		23.85	23.79	23.99
3	8	0		22.88	22.84	22.97
3	8	4		22.97	22.88	22.99
3	8	7		22.91	22.87	22.96
3	15	0		22.90	22.82	22.96
3	1	0	16-QAM	23.11	22.95	23.29
3	1	7		23.35	23.16	23.56
3	1	14		23.12	22.94	23.19
3	8	0		21.99	21.92	21.95
3	8	4		22.02	21.96	22.02
3	8	7		22.02	21.96	21.95
3	15	0		21.87	21.77	22.10



LTE BAND 2

LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	23.84	23.74	23.95
5	1	12		24.32	24.09	24.29
5	1	24		23.80	23.71	23.91
5	12	0		22.98	22.82	22.87
5	12	6		23.00	22.93	23.01
5	12	11		22.87	22.88	22.98
5	25	0		22.93	22.87	23.01
5	1	0		23.12	22.97	23.02
5	1	12	16-QAM	23.57	23.41	23.47
5	1	24		23.22	22.91	22.96
5	12	0		21.97	21.94	21.97
5	12	6		22.00	22.04	22.16
5	12	11		21.85	21.99	22.12
5	25	0		21.99	21.92	22.03
10	1	0	QPSK	23.89	23.90	23.95
10	1	24		24.00	23.97	24.08
10	1	49		23.87	23.89	23.95
10	25	0		23.06	22.83	23.02
10	25	12		22.99	22.86	23.08
10	25	24		22.92	22.90	23.22
10	50	0		23.02	22.92	23.14
10	1	0		22.95	23.23	23.27
10	1	24	16-QAM	23.16	23.30	23.40
10	1	49		22.97	23.13	23.22
10	25	0		22.10	21.88	22.17
10	25	12		22.05	21.93	22.20
10	25	24		21.99	21.96	22.36
10	50	0		22.11	21.98	22.17



LTE BAND 2

LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	23.84	23.79	23.95
15	1	37		24.21	24.11	24.33
15	1	74		23.80	23.72	23.98
15	36	0		23.09	22.85	23.05
15	36	18		23.03	22.91	23.12
15	36	39		22.98	22.88	23.19
15	75	0		23.09	22.90	23.18
15	1	0	16-QAM	23.06	22.92	23.00
15	1	38		23.44	23.23	23.43
15	1	75		23.16	22.82	22.96
15	36	0		22.06	21.85	22.04
15	36	18		22.03	21.92	22.08
15	36	39		21.98	21.90	22.20
15	75	0		22.04	21.89	22.18
20	1	0	QPSK	23.70	23.64	23.69
20	1	49		24.03	23.99	24.18
20	1	99		23.66	23.63	23.82
20	50	0		23.19	22.75	23.15
20	50	24		23.07	22.93	23.12
20	50	49		23.02	22.86	23.32
20	100	0		23.09	22.78	23.24
20	1	0	16-QAM	22.86	22.80	22.79
20	1	49		23.30	23.08	23.30
20	1	99		22.93	22.71	22.88
20	50	0		22.22	21.83	22.24
20	50	24		22.09	21.99	22.25
20	50	49		22.08	21.85	22.41
20	100	0		22.16	21.88	22.30



LTE BAND 4

LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	24.14	24.25	24.41
1.4	1	2		24.26	24.37	24.54
1.4	1	5		24.16	24.27	24.39
1.4	3	0		24.18	24.28	24.50
1.4	3	1		24.20	24.32	24.50
1.4	3	2		24.17	24.30	24.48
1.4	6	0		23.15	23.27	23.47
1.4	1	0	16-QAM	23.45	23.12	23.49
1.4	1	2		23.57	23.27	23.56
1.4	1	5		23.43	23.15	23.44
1.4	3	0		23.38	23.31	23.53
1.4	3	1		23.39	23.32	23.54
1.4	3	2		23.38	23.34	23.51
1.4	6	0		22.24	22.40	22.66
3	1	0	QPSK	24.23	24.33	24.53
3	1	7		24.61	24.59	24.80
3	1	14		24.30	24.22	24.53
3	8	0		23.24	23.27	23.54
3	8	4		23.24	23.33	23.59
3	8	7		23.22	23.30	23.54
3	15	0		23.23	23.30	23.50
3	1	0	16-QAM	23.54	23.52	23.55
3	1	7		23.82	23.83	23.82
3	1	14		23.54	23.51	23.60
3	8	0		22.21	22.39	22.61
3	8	4		22.25	22.39	22.63
3	8	7		22.22	22.35	22.61
3	15	0		22.35	22.24	22.45



LTE BAND 4

LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	24.13	24.29	24.46
5	1	12		24.60	24.65	24.87
5	1	24		24.15	24.30	24.47
5	12	0		23.25	23.33	23.54
5	12	6		23.30	23.39	23.62
5	12	11		23.34	23.33	23.56
5	25	0		23.25	23.32	23.54
5	1	0		23.34	23.37	23.81
5	1	12	16-QAM	23.79	23.78	24.26
5	1	24		23.40	23.37	23.77
5	12	0		22.37	22.43	22.54
5	12	6		22.43	22.48	22.62
5	12	11		22.42	22.44	22.57
5	25	0		22.29	22.35	22.61
10	1	0	QPSK	24.18	24.36	24.43
10	1	24		24.38	24.45	24.59
10	1	49		24.32	24.38	24.52
10	25	0		23.29	23.36	23.56
10	25	12		23.31	23.34	23.58
10	25	24		23.37	23.37	23.61
10	50	0		23.35	23.36	23.58
10	1	0		23.30	23.62	23.65
10	1	24	16-QAM	23.49	23.65	23.78
10	1	49		23.40	23.64	23.74
10	25	0		22.31	22.39	22.64
10	25	12		22.38	22.35	22.68
10	25	24		22.45	22.40	22.69
10	50	0		22.42	22.39	22.63



LTE BAND 4

LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	24.23	24.23	24.30
15	1	37		24.74	24.68	24.69
15	1	74		24.31	24.27	24.46
15	36	0		23.31	23.41	23.53
15	36	18		23.39	23.41	23.62
15	36	39		23.40	23.43	23.64
15	75	0		23.39	23.40	23.61
15	1	0	16-QAM	23.22	23.49	23.37
15	1	38		23.56	23.74	23.84
15	1	75		23.31	23.51	23.53
15	36	0		22.28	22.35	22.55
15	36	18		22.34	22.36	22.58
15	36	39		22.38	22.43	22.65
15	75	0		22.40	22.39	22.56
20	1	0	QPSK	23.96	24.02	24.11
20	1	49		24.46	24.41	24.59
20	1	99		24.10	24.13	24.35
20	50	0		23.29	23.33	23.44
20	50	24		23.38	23.38	23.51
20	50	49		23.43	23.38	23.60
20	100	0		23.40	23.31	23.51
20	1	0	16-QAM	23.21	23.11	23.14
20	1	49		23.65	23.45	23.58
20	1	99		23.30	23.24	23.36
20	50	0		22.32	22.39	22.51
20	50	24		22.44	22.44	22.57
20	50	49		22.43	22.42	22.64
20	100	0		22.41	22.37	22.55



LTE BAND 5

LTE Band 5 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	23.88	23.94	23.92
1.4	1	2		24.03	24.07	24.05
1.4	1	5		23.90	23.94	23.89
1.4	3	0		23.93	23.95	24.02
1.4	3	1		23.95	23.95	24.00
1.4	3	2		23.92	23.95	24.07
1.4	6	0		22.90	22.92	23.04
1.4	1	0	16-QAM	23.13	22.80	23.06
1.4	1	2		23.26	22.93	23.13
1.4	1	5		23.16	22.80	23.04
1.4	3	0		23.07	22.95	23.09
1.4	3	1		23.05	23.00	23.11
1.4	3	2		23.11	22.97	23.10
1.4	6	0		21.98	22.05	22.19
3	1	0	QPSK	23.87	23.89	24.02
3	1	7		24.23	24.17	24.56
3	1	14		23.87	23.85	24.04
3	8	0		22.88	22.92	23.02
3	8	4		22.91	22.90	23.03
3	8	7		22.91	22.89	22.96
3	15	0		22.86	22.91	22.98
3	1	0	16-QAM	23.09	22.97	23.35
3	1	7		23.35	23.10	23.66
3	1	14		23.14	22.96	23.37
3	8	0		21.93	21.98	21.99
3	8	4		21.94	21.97	22.02
3	8	7		21.97	21.95	21.96
3	15	0		21.83	21.78	22.09



LTE BAND 5

LTE Band 5 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	23.82	23.88	23.90
5	1	12		24.14	24.35	24.28
5	1	24		23.79	23.91	23.96
5	12	0		22.89	22.94	22.98
5	12	6		22.97	22.99	23.02
5	12	11		22.94	22.88	22.92
5	25	0		22.92	22.92	22.97
5	1	0	16-QAM	22.97	22.99	23.31
5	1	12		23.34	23.30	23.68
5	1	24		23.02	22.99	23.36
5	12	0		21.97	22.07	21.99
5	12	6		22.07	22.07	22.02
5	12	11		21.98	21.95	21.93
5	25	0		21.90	21.95	22.05
10	1	0	QPSK	23.93	23.89	23.94
10	1	24		24.04	24.02	24.09
10	1	49		23.92	24.01	24.00
10	25	0		22.99	23.01	23.08
10	25	12		22.89	22.95	23.01
10	25	24		22.94	23.01	23.01
10	50	0		22.96	23.03	22.97
10	1	0	16-QAM	23.21	23.11	23.04
10	1	24		23.29	23.27	23.20
10	1	49		23.20	23.25	23.09
10	25	0		21.99	22.10	22.07
10	25	12		21.93	22.07	22.04
10	25	24		21.96	22.13	22.06
10	50	0		21.99	22.07	22.05



LTE BAND 7

LTE Band 7 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	23.11	23.49	23.07
5	1	12		23.42	23.75	23.47
5	1	24		23.14	23.53	23.12
5	12	0		22.12	22.56	22.18
5	12	6		22.21	22.64	22.13
5	12	11		22.21	22.56	22.09
5	25	0		22.19	22.61	22.11
5	1	0	16-QAM	22.45	22.63	22.10
5	1	12		22.85	23.06	22.58
5	1	24		22.43	22.64	22.18
5	12	0		21.06	21.63	21.24
5	12	6		21.17	21.71	21.23
5	12	11		21.14	21.69	21.16
5	25	0		21.20	21.59	21.12
10	1	0	QPSK	23.17	23.01	23.04
10	1	24		22.93	23.18	23.18
10	1	49		22.79	23.10	23.17
10	25	0		21.64	22.09	22.30
10	25	12		21.78	22.14	22.12
10	25	24		21.92	22.21	22.07
10	50	0		21.87	22.15	22.18
10	1	0	16-QAM	21.91	22.20	22.07
10	1	24		22.07	22.40	22.23
10	1	49		22.00	22.35	22.15
10	25	0		20.61	21.20	21.32
10	25	12		20.97	21.18	21.14
10	25	24		20.87	21.32	21.09
10	50	0		20.80	21.15	21.21



LTE BAND 7

LTE Band 7 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	22.82	22.90	23.12
15	1	37		23.42	23.28	23.40
15	1	74		22.77	23.04	23.18
15	36	0		21.87	22.06	22.23
15	36	18		22.20	22.19	22.19
15	36	39		22.26	22.25	22.11
15	75	0		22.23	22.17	22.18
15	1	0	16-QAM	21.83	21.93	22.02
15	1	37		22.20	22.36	22.33
15	1	74		21.86	22.12	22.10
15	36	0		21.00	21.10	21.19
15	36	18		20.96	21.13	21.12
15	36	39		20.94	21.21	21.03
15	75	0		21.07	21.11	21.16
20	1	0	QPSK	22.42	22.76	22.93
20	1	49		22.80	23.24	23.22
20	1	99		22.48	23.04	22.99
20	50	0		21.61	22.01	22.14
20	50	24		21.68	22.12	22.20
20	50	49		21.67	22.19	21.88
20	100	0		21.63	22.12	22.05
20	1	0	16-QAM	21.42	21.78	22.06
20	1	49		21.83	22.21	22.35
20	1	99		21.59	22.04	22.10
20	50	0		20.64	21.06	21.16
20	50	24		20.75	21.22	21.18
20	50	49		20.68	21.24	20.91
20	100	0		20.62	21.11	21.05



LTE BAND 12

LTE Band 12 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	24.06	24.05	23.88
1.4	1	2		24.19	24.19	24.12
1.4	1	5		24.04	24.05	23.94
1.4	3	0		24.13	24.12	24.02
1.4	3	1		24.11	24.10	24.03
1.4	3	2		24.14	24.11	24.02
1.4	6	0		23.10	23.05	23.05
1.4	1	0	16-QAM	23.33	22.91	22.90
1.4	1	2		23.42	23.00	23.09
1.4	1	5		23.36	22.94	22.91
1.4	3	0		23.24	23.10	23.03
1.4	3	1		23.23	23.13	23.08
1.4	3	2		23.28	23.11	23.02
1.4	6	0		22.18	22.21	22.22
3	1	0	QPSK	24.04	24.07	24.02
3	1	7		24.37	24.42	24.28
3	1	14		24.08	23.98	24.01
3	8	0		23.03	23.03	22.97
3	8	4		23.07	23.04	23.02
3	8	7		23.05	23.02	23.05
3	15	0		23.04	23.00	22.97
3	1	0	16-QAM	23.36	23.26	22.97
3	1	7		23.59	23.50	23.11
3	1	14		23.28	23.25	22.97
3	8	0		22.00	22.10	22.07
3	8	4		22.10	22.12	22.07
3	8	7		22.05	22.13	22.08
3	15	0		22.16	21.98	21.90



LTE BAND 12

LTE Band 12 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	23.92	24.01	23.85
5	1	12		24.36	24.32	24.23
5	1	24		23.98	23.98	23.88
5	12	0		23.05	23.05	23.04
5	12	6		23.13	23.11	23.04
5	12	11		23.12	23.04	22.92
5	25	0		23.10	23.05	23.00
5	1	0	16-QAM	23.12	23.11	23.19
5	1	12		23.49	23.58	23.57
5	1	24		23.18	23.06	23.20
5	12	0		22.14	22.16	22.04
5	12	6		22.23	22.22	22.03
5	12	11		22.25	22.16	21.91
5	25	0		22.10	22.09	22.03
10	1	0	QPSK	23.99	24.02	24.05
10	1	24		24.17	24.12	24.11
10	1	49		24.05	23.99	24.01
10	25	0		23.05	23.14	23.05
10	25	12		23.07	23.05	23.02
10	25	24		23.11	23.09	23.03
10	50	0		23.12	23.11	23.06
10	1	0	16-QAM	23.23	23.09	23.26
10	1	24		23.41	23.17	23.31
10	1	49		23.26	23.01	23.20
10	25	0		22.20	22.16	22.09
10	25	12		22.21	22.10	22.03
10	25	24		22.23	22.12	22.06
10	50	0		22.13	22.17	22.11



LTE BAND 13

LTE Band 13 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	23.74	23.79	23.85
5	1	12		24.20	24.13	24.19
5	1	24		23.85	23.75	23.82
5	12	0		22.90	22.88	22.88
5	12	6		22.94	22.95	22.91
5	12	11		22.91	22.82	22.84
5	25	0		22.92	22.88	22.89
5	1	0	16-QAM	23.13	22.98	22.92
5	1	12		23.53	23.37	23.30
5	1	24		23.17	22.94	22.87
5	12	0		21.98	21.96	22.00
5	12	6		21.93	22.02	22.05
5	12	11		21.85	21.91	21.94
5	25	0		21.96	21.86	21.89
10	1	0	QPSK		23.87	
10	1	24			23.94	
10	1	49			23.82	
10	25	0			22.93	
10	25	12			22.95	
10	25	24			22.94	
10	50	0			22.94	
10	1	0	16-QAM		22.98	
10	1	24			23.07	
10	1	49			22.96	
10	25	0			21.95	
10	25	12			21.98	
10	25	24			21.96	
10	50	0			21.99	



LTE BAND 17

LTE Band 17 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	24.10	24.10	24.13
5	1	12		24.46	24.50	24.52
5	1	24		24.13	24.10	24.11
5	12	0		23.25	23.21	23.10
5	12	6		23.31	23.28	23.17
5	12	11		23.20	23.20	23.09
5	25	0		23.24	23.22	23.15
5	1	0		23.46	23.21	23.18
5	1	12	16-QAM	23.81	23.65	23.64
5	1	24		23.47	23.20	23.17
5	12	0		22.21	22.27	22.27
5	12	6		22.24	22.34	22.30
5	12	11		22.23	22.31	22.19
5	25	0		22.29	22.22	22.19
10	1	0	QPSK	24.16	24.14	24.17
10	1	24		24.34	24.32	24.34
10	1	49		24.15	24.20	24.19
10	25	0		23.27	23.31	23.24
10	25	12		23.22	23.24	23.21
10	25	24		23.26	23.24	23.21
10	50	0		23.28	23.26	23.22
10	1	0		23.34	23.21	23.42
10	1	24	16-QAM	23.53	23.37	23.55
10	1	49		23.26	23.12	23.33
10	25	0		22.41	22.33	22.29
10	25	12		22.35	22.30	22.24
10	25	24		22.37	22.31	22.21
10	50	0		22.35	22.31	22.30



LTE BAND 38

LTE Band 38 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	23.06	23.09	23.67
5	1	12		23.32	23.38	23.95
5	1	24		23.12	23.09	23.71
5	12	0		22.09	22.13	22.73
5	12	6		22.16	22.22	22.79
5	12	11		22.13	22.21	22.75
5	25	0		22.13	22.19	22.78
5	1	0	16-QAM	22.38	22.13	22.73
5	1	12		22.65	22.39	23.02
5	1	24		22.43	22.15	22.78
5	12	0		21.09	21.21	21.81
5	12	6		21.15	21.31	21.89
5	12	11		21.09	21.30	21.84
5	25	0		21.11	21.17	21.78
10	1	0	QPSK	22.94	23.10	23.61
10	1	24		23.16	23.25	23.84
10	1	49		23.09	23.10	23.71
10	25	0		22.05	22.20	22.70
10	25	12		22.11	22.24	22.74
10	25	24		22.19	22.28	22.77
10	50	0		22.11	22.24	22.75
10	1	0	16-QAM	22.32	22.10	22.93
10	1	24		22.54	22.27	23.19
10	1	49		22.47	22.10	23.07
10	25	0		21.11	21.24	21.74
10	25	12		21.21	21.29	21.76
10	25	24		21.27	21.31	21.81
10	50	0		21.16	21.28	21.80



LTE Band 38 Maximum Average Power [dBm]

BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	23.01	23.06	23.62
15	1	37		23.38	23.36	24.04
15	1	74		23.14	23.04	23.82
15	36	0		22.17	22.22	22.72
15	36	18		22.27	22.27	22.81
15	36	39		22.30	22.30	22.85
15	75	0		22.20	22.23	22.87
15	1	0	16-QAM	22.35	22.07	22.63
15	1	38		22.75	22.36	23.07
15	1	75		22.51	22.07	22.86
15	36	0		21.15	21.24	21.65
15	36	18		21.24	21.28	21.80
15	36	39		21.28	21.27	21.84
15	75	0		21.23	21.25	21.82
20	1	0	QPSK	22.85	22.94	23.33
20	1	49		23.31	23.35	23.74
20	1	99		23.06	23.02	23.50
20	50	0		22.06	22.14	22.44
20	50	24		22.20	22.22	22.62
20	50	49		22.26	22.28	22.59
20	100	0		22.17	22.20	22.51
20	1	0	16-QAM	21.86	22.01	22.30
20	1	49		22.35	22.44	22.80
20	1	99		22.12	22.15	22.50
20	50	0		21.08	21.18	21.51
20	50	24		21.24	21.27	21.65
20	50	49		21.29	21.35	21.69
20	100	0		21.15	21.23	21.55



LTE BAND 41

LTE Band 41 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	22.71	23.11	23.05
5	1	12		23.01	23.40	23.34
5	1	24		22.76	23.16	23.06
5	12	0		21.65	22.18	22.15
5	12	6		21.81	22.26	22.18
5	12	11		21.84	22.21	22.14
5	25	0		21.77	22.24	22.17
5	1	0	16-QAM	22.03	22.15	22.16
5	1	12		22.35	22.45	22.44
5	1	24		22.13	22.20	22.14
5	12	0		20.62	21.28	21.31
5	12	6		20.81	21.37	21.31
5	12	11		20.77	21.34	21.27
5	25	0		20.77	21.24	21.23
10	1	0	QPSK	22.62	23.12	23.35
10	1	24		22.86	23.29	23.45
10	1	49		22.72	23.13	23.27
10	25	0		21.66	22.26	22.41
10	25	12		21.75	22.25	22.37
10	25	24		21.85	22.33	22.34
10	50	0		21.73	22.28	22.39
10	1	0	16-QAM	22.02	22.14	22.71
10	1	24		22.26	22.31	22.80
10	1	49		22.17	22.15	22.66
10	25	0		20.72	21.29	21.47
10	25	12		20.82	21.32	21.41
10	25	24		20.95	21.37	21.39
10	50	0		20.75	21.33	21.49



LTE Band 41 Maximum Average Power [dBm]

BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	22.58	23.08	23.28
15	1	37		22.97	23.39	23.53
15	1	74		22.72	23.08	23.19
15	36	0		21.67	22.26	22.37
15	36	18		21.82	22.34	22.40
15	36	39		21.87	22.35	22.34
15	75	0		21.76	22.32	22.37
15	1	0	16-QAM	21.93	22.08	22.35
15	1	38		22.36	22.42	22.65
15	1	75		22.09	22.06	22.33
15	36	0		20.64	21.25	21.36
15	36	18		20.80	21.32	21.37
15	36	39		20.83	21.33	21.32
15	75	0		20.75	21.32	21.42
20	1	0	QPSK	22.53	22.97	23.09
20	1	49		23.03	23.41	23.45
20	1	99		22.73	23.03	23.01
20	50	0		21.58	22.17	22.38
20	50	24		21.80	22.29	22.39
20	50	49		21.77	22.29	22.29
20	100	0		21.66	22.22	22.32
20	1	0	16-QAM	21.48	22.01	22.25
20	1	49		21.99	22.43	22.61
20	1	99		21.70	22.10	22.20
20	50	0		20.65	21.18	21.46
20	50	24		20.85	21.32	21.48
20	50	49		20.83	21.36	21.36
20	100	0		20.72	21.25	21.41



LTE BAND 66

LTE Band 66 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	23.75	23.86	24.01
1.4	1	2		23.94	24.04	24.16
1.4	1	5		23.78	23.92	23.98
1.4	3	0		23.79	23.98	24.02
1.4	3	1		23.83	24.00	24.07
1.4	3	2		23.80	24.01	24.05
1.4	6	0		22.77	22.97	23.07
1.4	1	0	16-QAM	22.61	22.97	23.24
1.4	1	2		22.82	23.11	23.40
1.4	1	5		22.66	22.97	23.25
1.4	3	0		22.83	23.07	23.21
1.4	3	1		22.85	23.08	23.22
1.4	3	2		22.86	23.03	23.20
1.4	6	0		21.91	22.19	22.12
3	1	0	QPSK	23.78	23.00	24.02
3	1	7		24.05	24.36	24.32
3	1	14		23.86	23.98	24.06
3	8	0		22.77	22.99	23.04
3	8	4		22.80	23.01	23.07
3	8	7		22.79	23.00	23.07
3	15	0		22.79	23.00	23.05
3	1	0	16-QAM	23.09	23.21	23.13
3	1	7		23.41	23.45	23.34
3	1	14		23.12	23.24	23.08
3	8	0		21.73	22.07	22.12
3	8	4		21.78	22.08	22.13
3	8	7		21.79	22.12	22.11
3	15	0		21.88	21.94	21.93



LTE Band 66 Maximum Average Power [dBm]

BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	23.67	23.97	23.97
5	1	12		24.03	24.37	24.30
5	1	24		23.77	24.00	23.99
5	12	0		22.80	23.00	23.02
5	12	6		22.93	23.07	23.09
5	12	11		22.88	23.02	23.11
5	25	0		22.88	23.03	23.09
5	1	0	16-QAM	22.90	23.06	23.26
5	1	12		23.30	23.43	23.63
5	1	24		22.97	23.08	23.34
5	12	0		21.93	22.16	22.06
5	12	6		22.00	22.18	22.10
5	12	11		21.98	22.19	22.07
5	25	0		21.85	22.06	22.12
10	1	0	QPSK	23.83	23.94	24.01
10	1	24		23.98	24.08	24.08
10	1	49		23.99	24.08	24.05
10	25	0		22.85	23.06	23.13
10	25	12		22.86	23.04	23.04
10	25	24		22.98	23.15	23.18
10	50	0		22.94	23.12	23.16
10	1	0	16-QAM	23.15	23.17	23.10
10	1	24		23.30	23.33	23.17
10	1	49		23.26	23.31	23.13
10	25	0		21.93	22.17	22.17
10	25	12		21.92	22.14	22.07
10	25	24		22.05	22.23	22.20
10	50	0		22.01	22.16	22.21



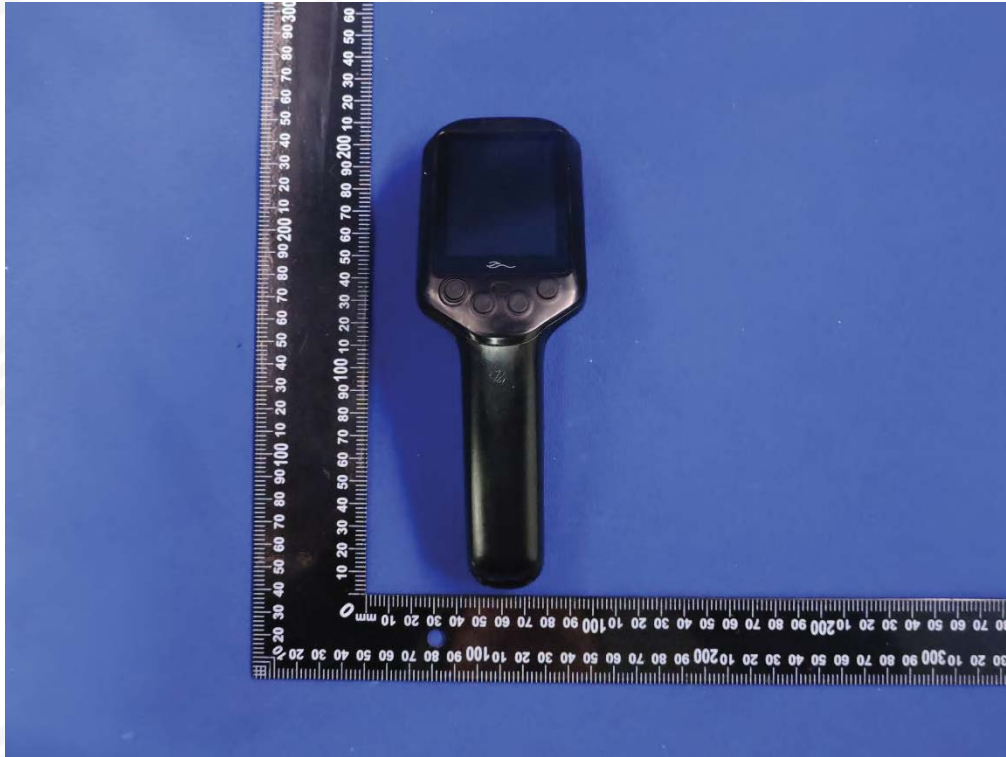
LTE Band 66 Maximum Average Power [dBm]

BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	23.75	23.87	24.07
15	1	37		24.22	24.30	24.39
15	1	74		23.88	24.00	24.08
15	36	0		22.87	23.07	23.19
15	36	18		22.99	23.13	23.16
15	36	39		23.03	23.15	23.19
15	75	0		22.99	23.11	23.18
15	1	0	16-QAM	22.96	22.97	23.03
15	1	38		23.42	23.30	23.46
15	1	75		23.11	23.07	23.05
15	36	0		21.88	22.07	22.13
15	36	18		22.01	22.15	22.11
15	36	39		22.02	22.20	22.17
15	75	0		22.00	22.12	22.22
20	1	0	QPSK	23.57	23.68	23.83
20	1	49		24.02	24.13	24.15
20	1	99		23.74	23.90	23.82
20	50	0		22.90	23.07	23.12
20	50	24		23.01	23.12	23.11
20	50	49		23.03	23.15	22.97
20	100	0		22.97	23.13	23.14
20	1	0	16-QAM	22.77	22.78	22.69
20	1	49		23.26	23.21	23.11
20	1	99		22.93	22.86	22.72
20	50	0		21.94	22.06	22.19
20	50	24		22.03	22.12	22.17
20	50	49		22.09	22.20	22.09
20	100	0		21.98	22.16	22.13

11. EUT and Test Setup Photo

11.1 EUT Photo

Front side



Back side



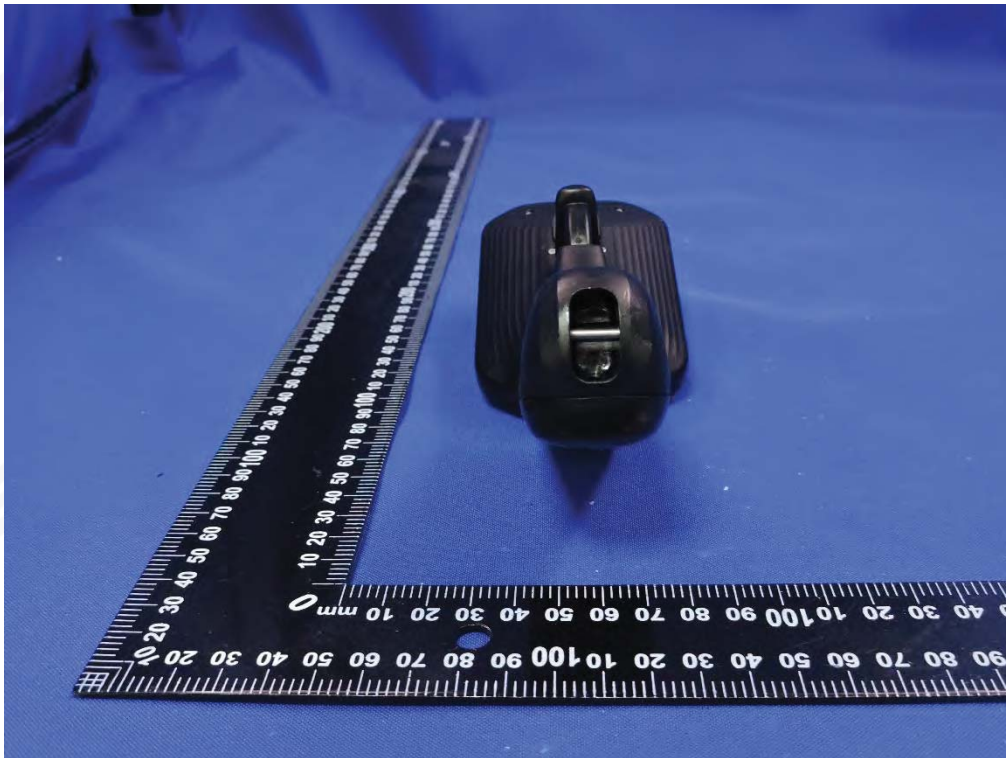
Top side



Bottom side



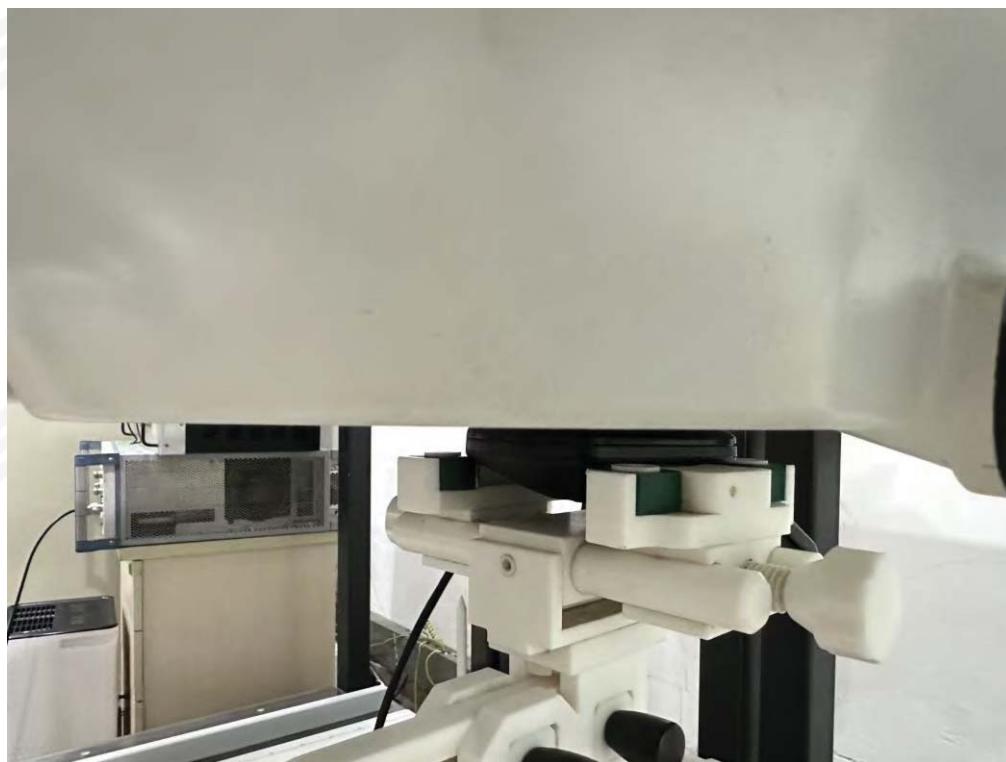
Left side



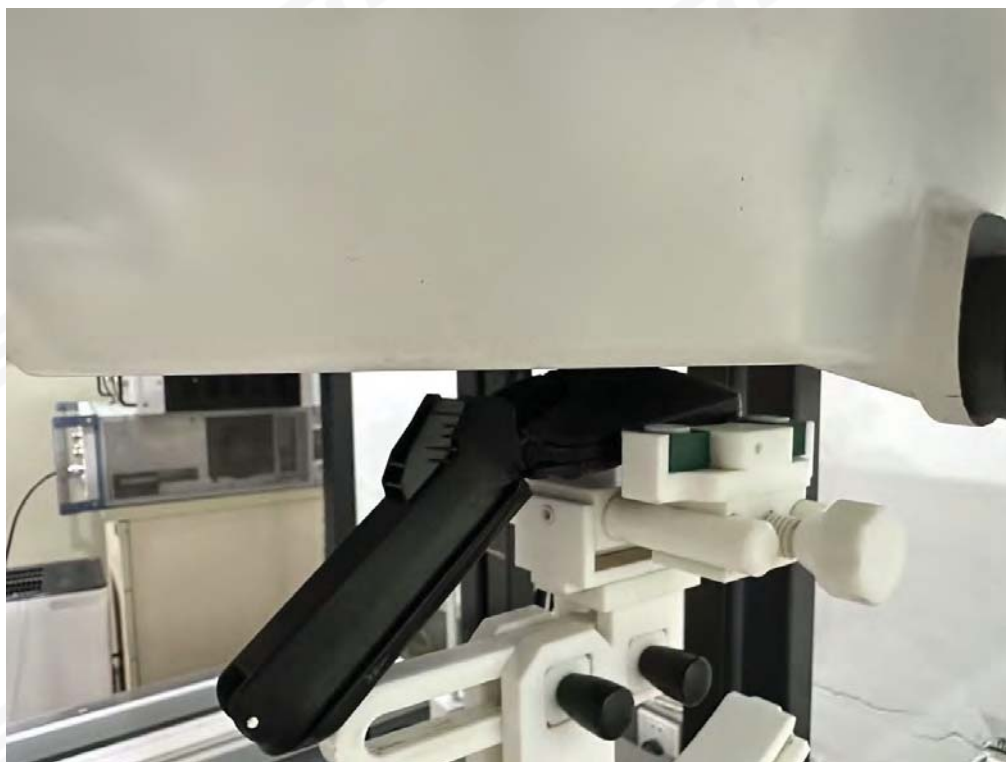
Right side



Body Front side(separation distance is 0mm)



Body Back side(separation distance is 5mm)



Body Left side(separation distance is 0mm)



Body Right side(separation distance is 0mm)



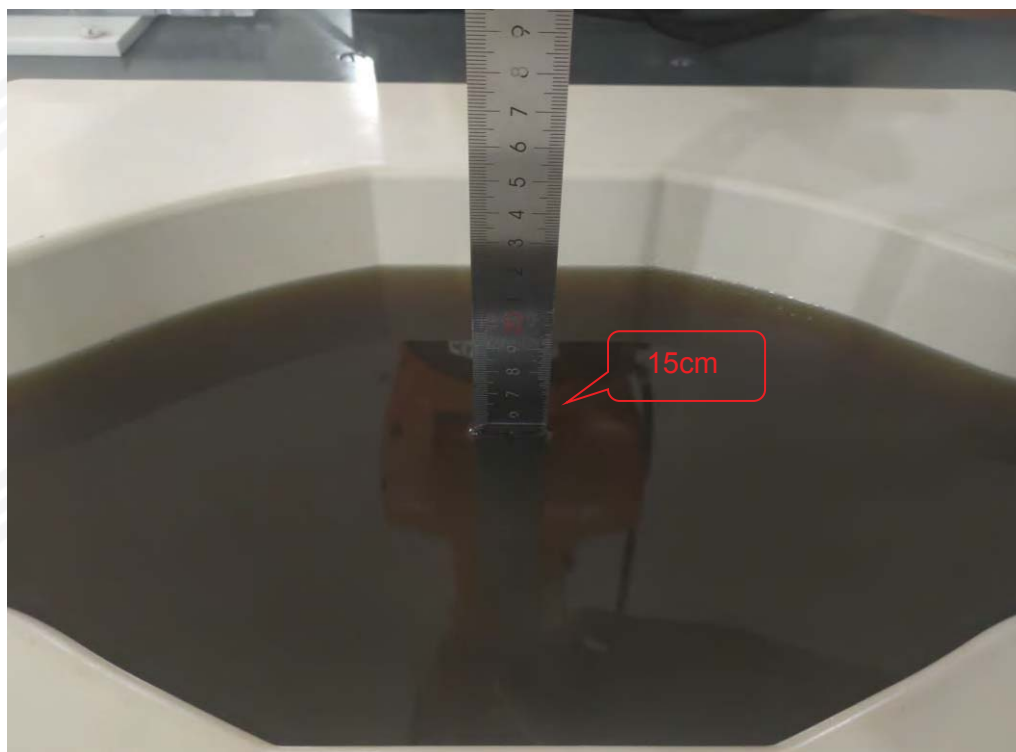


Body Top side(separation distance is 0mm)





Liquid depth (15 cm)





12. SAR Result Summary

12.1 Body-worn and Hotspot SAR

Band	BW (MHz)	Mod.	RB Size	RB offset	Test Position	Freq.	Result 1g (W/Kg)	Power Drift(%)	Max. Turn-up Power(dBm)	Meas. Output Power(dBm)	Scaling Factor	Scaled SAR (W/Kg)	Meas.No.
WCDMA Band II	N/A	RMC	N/A	N/A	Front Side	1880	0.627	-2.91	23.50	23.23	1.064	0.667	1
					Back Side	1880	0.094	0.61	23.50	23.23	1.064	0.100	/
					Left Side	1880	0.502	3.55	23.50	23.23	1.064	0.534	/
					Top Side	1880	0.057	0.23	23.50	23.23	1.064	0.061	/
WCDMA Band V	N/A	RMC	N/A	N/A	Front Side	826.5	0.734	-3.84	24.50	23.82	1.169	0.858	/
					Front Side	836.8	0.778	-2.00	24.50	23.95	1.135	0.883	2
					Front Side	846.5	0.700	-1.19	24.50	24.10	1.096	0.768	/
					Back Side	836.8	0.101	-2.68	24.50	23.95	1.135	0.115	/
					Left Side	836.8	0.544	0.02	24.50	23.95	1.135	0.617	/
					Top Side	836.8	0.063	-1.90	24.50	23.95	1.135	0.072	/
WCDMA Band IV	N/A	RMC	N/A	N/A	Front Side	1712.5	1.032	1.97	24.00	23.44	1.138	1.174	3
					Front Side	1732.5	1.001	-1.40	24.00	23.42	1.143	1.144	/
					Front Side	1752.5	0.908	3.12	24.00	23.53	1.114	1.012	/
					Back Side	1732.5	0.155	2.81	24.00	23.42	1.143	0.177	/
					Left Side	1732.5	0.701	-0.08	24.00	23.42	1.143	0.801	/
					Top Side	1732.5	0.061	-2.90	24.00	23.42	1.143	0.070	/
LTE Band 2	20M	QPSK	1	0	Front side	1860	1.105	-3.86	24.00	23.70	1.072	1.184	/
			50	0	Front side	1900	0.963	0.96	23.50	23.32	1.042	1.004	/
			1	0	Front side	1880	1.151	-2.26	24.00	23.02	1.253	1.442	4
			50	0	Front side	1900	0.924	-2.34	23.50	23.32	1.042	0.963	/
			1	0	Front side	1900	1.059	0.72	24.00	22.86	1.300	1.377	/
			50	0	Front side	1900	0.950	-0.13	23.50	23.32	1.042	0.990	/
			100	0	Front side	1860	0.815	2.06	23.50	23.09	1.099	0.896	/
			100	0	Front side	1880	0.741	-3.96	23.50	22.78	1.180	0.875	/
			100	0	Front side	1900	0.863	0.49	23.50	23.24	1.062	0.916	/
			1	0	Back Side	1880	0.138	3.56	24.00	23.64	1.086	0.150	/
			50	0	Back Side	1900	0.115	-1.69	23.50	23.32	1.042	0.120	/
			1	0	Left Side	1880	0.867	2.10	24.00	23.64	1.086	0.942	/
			50	0	Left Side	1900	0.748	0.59	23.50	23.32	1.042	0.780	/
			1	0	Top Side	1880	0.072	0.90	24.00	23.64	1.086	0.078	/
			50	0	Top Side	1900	0.060	1.23	23.50	23.32	1.042	0.063	/
			1	0	Front side	1720	1.120	-1.58	24.50	23.96	1.132	1.268	/
			50	0	Front side	1720	0.975	0.55	24.00	23.43	1.140	1.112	/
			1	0	Front side	1732.5	1.192	3.82	24.50	24.02	1.117	1.331	5
LTE Band 4	20M	QPSK	50	0	Front side	1732.5	1.052	-3.24	24.00	23.38	1.153	1.213	/
			1	0	Front side	1745	1.097	-2.97	24.50	24.11	1.094	1.200	/
			50	0	Front side	1720	0.996	0.41	24.00	23.60	1.096	1.092	/
			100	0	Front side	1732.5	0.916	2.83	24.00	23.40	1.148	1.052	/
			100	0	Front side	1745	0.862	2.32	24.00	23.31	1.172	1.010	/
			100	0	Front side	1745	0.820	-0.56	24.00	23.51	1.119	0.918	/
			1	0	Back Side	1732.5	0.143	2.89	24.50	24.02	1.117	0.160	/
			50	0	Back Side	1745	0.105	0.85	24.00	23.60	1.096	0.115	/
			1	0	Left Side	1732.5	0.941	0.86	24.50	24.02	1.117	1.051	/
			50	0	Left Side	1745	0.834	-0.64	24.00	23.60	1.096	0.914	/
			1	0	Top Side	1732.5	0.088	2.88	24.50	24.02	1.117	0.098	/
			50	0	Top Side	1745	0.062	-1.37	24.00	23.60	1.096	0.068	/
			1	0	Front side	829	0.880	-3.74	24.00	23.93	1.016	0.894	6
			25	0	Front side	829	0.723	3.73	23.50	23.08	1.102	0.796	/
			1	0	Front side	836.8	0.827	-3.29	24.00	23.89	1.026	0.848	/
			25	0	Front side	836.8	0.716	-3.01	23.50	22.99	1.125	0.805	/
			1	0	Front side	844	0.818	-2.16	24.00	23.01	1.256	1.027	/
			25	0	Front side	844	0.730	0.03	23.50	23.08	1.102	0.804	/
LTE Band 5	10M	QPSK	50	0	Front side	829	0.691	-2.14	23.50	22.99	1.125	0.777	/
			50	0	Front side	836.8	0.715	3.23	23.50	23.04	1.112	0.795	/
			50	0	Front side	844	0.733	-3.87	23.50	23.08	1.102	0.807	/
			1	0	Back Side	836.8	0.150	2.48	24.00	23.89	1.026	0.154	/
			25	0	Back Side	844	0.136	-0.95	23.50	23.08	1.102	0.150	/
			1	0	Left Side	836.8	0.711	-3.85	24.00	23.89	1.026	0.729	/
			25	0	Left Side	844	0.652	-0.10	23.50	23.08	1.102	0.718	/
			1	0	Top Side	836.8	0.057	0.07	24.00	23.89	1.026	0.058	/
			25	0	Top Side	844	0.023	2.65	23.50	23.08	1.102	0.025	/
			1	0	Front side	2510	1.073	-1.96	23.00	22.42	1.143	1.226	/
			50	0	Front side	2510	0.911	-1.10	22.50	21.68	1.208	1.100	/
			1	0	Front side	2535	1.179	1.05	23.00	22.76	1.057	1.246	7
			50	0	Front side	2535	0.968	2.18	22.50	22.12	1.091	1.057	/
			1	0	Front side	2560	1.108	-3.78	23.00	22.93	1.016	1.126	/
			50	0	Front side	2560	0.931	1.10	22.50	22.20	1.072	0.998	/
			100	0	Front side	2510	0.825	3.77	22.50	21.63	1.222	1.008	/
			100	0	Front side	2535	0.868	3.32	22.50	22.12	1.091	0.947	/
			100	0	Front side	2560	0.813	0.54	22.50	22.05	1.109	0.902	/
LTE Band 7	10M	QPSK	1	0	Back Side	2535	0.165	-1.83	23.00	22.76	1.057	0.174	/
			50	0	Back Side	2560	0.105	2.77	22.50	22.20	1.072	0.113	/
			1	0	Left Side	2535	0.773	-3.02	23.00	22.76	1.057	0.817	/
			50	0	Left Side	2560	0.633	0.66	22.50	22.20	1.072	0.678	/
			1	0	Top Side	2535	0.078	-2.12	23.00	22.76	1.057	0.082	/
			50	0	Top Side	2560	0.060	-1.89	22.50	22.20	1.072	0.064	/
			1	0	Front side	707.5	0.514	0.42	24.50	24.02	1.117	0.574	8
			25	0	Front side	707.5	0.463	0.56	23.50	23.14	1.086	0.503	/
			1	0	Back Side	707.5	0.067	-1.22	24.50	24.02	1.117	0.075	/
			25	0	Back Side	707.5	0.054	3.11	23.50	23.14	1.086	0.059	/
			1	0	Left Side	707.5	0.380	-0.37	24.50	24.02	1.117	0.424	/
			25	0	Left Side	707.5	0.345	0.48	23.50	23.14	1.086	0.375	/
LTE Band 12	10M	QPSK	1	0	Top Side	707.5	0.035	-3.21	24.50	24.02	1.117	0.039	/
			25	0	Top Side	707.5	0.020	-3.17	23.50	23.14	1.086	0.022	/



Band	BW (MHz)	Mod.	RB Size	RB offset	Test Position	Freq.	Result 1g (W/Kg)	Power Drift(%)	Max. Turn-up Power(dBm)	Meas. Output Power(dBm)	Scaling Factor	Scaled SAR (W/Kg)	Meas.No.
LTE Band 13	10M	QPSK	1	0	Front side	782	0.447	3.45	24.00	23.87	1.030	0.461	9
			25	0	Front side	782	0.366	3.51	23.00	22.95	1.012	0.370	/
			1	0	Back Side	782	0.072	1.95	24.00	23.87	1.030	0.074	/
			25	0	Back Side	782	0.058	-0.70	23.00	22.95	1.012	0.059	/
			1	0	Left Side	782	0.340	2.75	24.00	23.87	1.030	0.350	/
			25	0	Left Side	782	0.316	2.33	23.00	22.95	1.012	0.320	/
			1	0	Top Side	782	0.022	2.63	24.00	23.87	1.030	0.023	/
			25	0	Top Side	782	0.015	-3.16	23.00	22.95	1.012	0.015	/
LTE Band 17	10M	QPSK	1	0	Front side	740	0.655	1.29	24.50	24.14	1.086	0.712	10
			25	0	Front side	710	0.611	-2.58	23.50	23.31	1.045	0.638	/
			1	0	Back Side	740	0.072	-3.74	24.50	24.14	1.086	0.078	/
			25	0	Back Side	710	0.063	-3.36	23.50	23.31	1.045	0.066	/
			1	0	Left Side	740	0.596	-3.41	24.50	24.14	1.086	0.648	/
			25	0	Left Side	710	0.518	2.19	23.50	23.31	1.045	0.541	/
			1	0	Top Side	740	0.020	-3.36	24.50	24.14	1.086	0.022	/
			25	0	Top Side	710	0.012	-1.71	23.50	23.31	1.045	0.013	/
LTE Band 38	20M	QPSK	1	0	Front side	2580	0.843	-2.30	23.00	22.85	1.035	0.873	11
			1	0	Front side	2595	0.818	2.68	23.00	22.94	1.014	0.829	/
			1	0	Front side	2610	0.767	1.47	23.00	23.33	0.927	0.711	/
			50	0	Front side	2610	0.626	1.40	23.00	22.62	1.091	0.683	/
			1	0	Back Side	2595	0.118	0.52	23.00	22.94	1.014	0.120	/
			50	0	Back Side	2610	0.099	-1.19	23.00	22.62	1.091	0.108	/
			1	0	Left Side	2595	0.736	-3.01	23.00	22.94	1.014	0.746	/
			50	0	Left Side	2610	0.565	2.14	23.00	22.62	1.091	0.617	/
LTE Band 41	20M	QPSK	1	0	Top Side	2595	0.031	-2.73	23.00	22.94	1.014	0.031	/
			50	0	Top Side	2610	0.020	-3.19	23.00	22.62	1.091	0.022	/
		QPSK	1	0	Front side	2555	0.625	3.78	23.00	22.97	1.007	0.629	12
			50	0	Front side	2680	0.511	-0.04	22.50	22.39	1.026	0.524	/
			1	0	Back Side	2555	0.081	-0.36	23.00	22.97	1.007	0.082	/
			50	0	Back Side	2680	0.075	3.30	22.50	22.39	1.026	0.077	/
			1	0	Left Side	2555	0.563	-1.28	23.00	22.97	1.007	0.567	/
			50	0	Left Side	2680	0.518	0.89	22.50	22.39	1.026	0.531	/
LTE Band 66	20M	QPSK	1	0	Top Side	2555	0.044	-1.81	23.00	22.97	1.007	0.044	/
			50	0	Top Side	2680	0.034	3.44	22.50	22.39	1.026	0.035	/
		QPSK	1	0	Front side	1745	0.525	-3.03	24.00	23.68	1.076	0.565	13
			50	0	Front side	1745	0.482	1.88	23.50	23.15	1.084	0.522	/
			1	0	Back Side	1745	0.053	-0.60	24.00	23.68	1.076	0.057	/
			50	0	Back Side	1745	0.041	2.24	23.50	23.15	1.084	0.044	/
			1	0	Left Side	1745	0.425	-3.64	24.00	23.68	1.076	0.457	/
			50	0	Left Side	1745	0.338	2.96	23.50	23.15	1.084	0.366	/
		QPSK	1	0	Top Side	1745	0.021	1.84	24.00	23.68	1.076	0.023	/
			50	0	Top Side	1745	0.016	-0.59	23.50	23.15	1.084	0.017	/



Band	BW (MHz)	Mod.	RB Size	RB offset	Test Position	Freq.	Result 1g (W/Kg)	Power Drift(%)	Max. Turn-up Power(dBm)	Meas. Output Power(dBm)	Scaling Factor	Scaled SAR (W/Kg)	Meas.No.
2.4GHz WLAN	N/A	802.11b	N/A	N/A	Front Side	2437	0.090	3.94	17.00	16.83	1.040	0.094	/
					Back Side	2437	0.013	2.95	17.00	16.83	1.040	0.014	/
					Top Side	2437	0.079	0.49	17.00	16.83	1.040	0.082	/
2.4GHz WLAN	N/A	802.11 n-HT20	N/A	N/A	Front Side	2437	0.123	-3.49	17.50	16.89	1.151	0.142	14
					Back Side	2437	0.018	-2.13	17.50	16.89	1.151	0.021	/
					Top Side	2437	0.108	-2.36	17.50	16.89	1.151	0.124	/
5.2GHz WLAN	N/A	802.11 n-HT20	N/A	N/A	Front Side	5200	0.199	-0.62	14.00	13.75	1.059	0.211	15
					Back Side	5200	0.040	-3.52	14.00	13.75	1.059	0.042	/
					Top Side	5200	0.139	-1.26	14.00	13.75	1.059	0.147	/
5.3GHz WLAN	N/A	802.11 n-HT20	N/A	N/A	Front Side	5290	0.115	3.05	13.50	12.93	1.140	0.131	16
					Back Side	5290	0.021	-1.70	13.50	12.93	1.140	0.024	/
					Top Side	5290	0.105	-2.14	13.50	12.93	1.140	0.120	/
5.6GHz WLAN	N/A	802.11 n-HT20	N/A	N/A	Front Side	5600	0.159	-2.53	13.00	12.11	1.227	0.195	17
					Back Side	5600	0.032	-1.29	13.00	12.11	1.227	0.039	/
					Top Side	5600	0.134	1.17	13.00	12.11	1.227	0.164	/
5.8GHz WLAN	N/A	802.11 n-HT20	N/A	N/A	Front Side	5785	0.142	-0.03	13.50	13.39	1.026	0.146	18
					Back Side	5785	0.014	1.89	13.50	13.39	1.026	0.014	/
					Top Side	5785	0.125	1.41	13.50	13.39	1.026	0.128	/

Note:

- The test separation of all above table is 0mm.
- Per KDB 447498 D04, the reported SAR is the measured SAR value adjusted for maximum tune-up tolerance.
 - Tune-up scaling Factor = tune-up limit power (mW) / EUT RF power (mW), where tune-up limit is the maximum rated power among all production units.
 - Scaled SAR(W/kg)= Measured SAR(W/kg)*Tune-up Scaling Factor
- Per KDB 248227- When the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg. (The highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power was **0.095** W/Kg for Body)
- When the user enables the personal Wireless router functions for the handsets, actual operations include simultaneous transmission of both the Wi-Fi transmitting frequency and thus cannot be evaluated for SAR under actual use conditions. The "Portable Hotspot" feature on the handset was NOT activated, to ensure the SAR measurements were evaluated for a single transmission frequency RF signal.



12.2 Body-worn and Hotspot SAR

Band	BW (MHz)	Mod.	RB Size	RB offset	Test Position	Freq.	Result 10g (W/Kg)	Power Drift(%)	Max. Turn-up Power(dBm)	Meas. Output Power(dBm)	Scaling Factor	Scaled SAR (W/Kg)	Meas.No.
WCDMA Band II	N/A	RMC	N/A	N/A	Front Side	1880	0.320	-2.91	23.50	23.23	1.064	0.341	1
					Back Side	1880	0.041	0.61	23.50	23.23	1.064	0.044	/
					Left Side	1880	0.266	3.55	23.50	23.23	1.064	0.283	/
					Top Side	1880	0.023	0.23	23.50	23.23	1.064	0.024	/
WCDMA Band V	N/A	RMC	N/A	N/A	Front Side	826.5	0.331	-3.84	24.50	23.82	1.169	0.387	/
					Front Side	836.8	0.414	-2.00	24.50	23.95	1.135	0.470	2
					Front Side	846.5	0.312	-1.19	24.50	24.10	1.096	0.342	/
					Back Side	836.8	0.054	-2.68	24.50	23.95	1.135	0.061	/
					Left Side	836.8	0.235	0.02	24.50	23.95	1.135	0.267	/
					Top Side	836.8	0.021	-1.90	24.50	23.95	1.135	0.024	/
					Front Side	1712.5	0.536	1.97	24.00	23.44	1.138	0.610	3
WCDMA Band IV	N/A	RMC	N/A	N/A	Front Side	1732.5	0.436	-1.40	24.00	23.42	1.143	0.498	/
					Front Side	1752.5	0.441	3.12	24.00	23.53	1.114	0.491	/
					Back Side	1732.5	0.068	2.81	24.00	23.42	1.143	0.078	/
					Left Side	1732.5	0.328	-0.08	24.00	23.42	1.143	0.375	/
					Top Side	1732.5	0.019	-2.90	24.00	23.42	1.143	0.022	/
					Front side	1860	0.335	-3.86	24.00	23.70	1.072	0.359	/
					Front side	1900	0.343	0.96	23.50	23.32	1.042	0.358	/
LTE Band 2	20M	QPSK	1	0	Front side	1880	0.468	-2.26	24.00	23.02	1.253	0.586	4
			50	0	Front side	1900	0.305	-2.34	23.50	23.32	1.042	0.318	/
			1	0	Front side	1900	0.412	0.72	24.00	22.86	1.300	0.536	/
			50	0	Front side	1900	0.340	-0.13	23.50	23.32	1.042	0.354	/
			100	0	Front side	1860	0.317	2.06	23.50	23.09	1.099	0.348	/
			100	0	Front side	1880	0.289	-3.96	23.50	22.78	1.180	0.341	/
			100	0	Front side	1900	0.263	0.49	23.50	23.24	1.062	0.279	/
			1	0	Back Side	1880	0.065	3.56	24.00	23.64	1.086	0.071	/
			50	0	Back Side	1900	0.057	-1.69	23.50	23.32	1.042	0.059	/
			1	0	Left Side	1880	0.328	2.10	24.00	23.64	1.086	0.356	/
			50	0	Left Side	1900	0.266	0.59	23.50	23.32	1.042	0.277	/
			1	0	Top Side	1880	0.034	0.90	24.00	23.64	1.086	0.037	/
			50	0	Top Side	1900	0.026	1.23	23.50	23.32	1.042	0.027	/
			1	0	Front side	1720	0.463	-1.58	24.50	23.96	1.132	0.524	/
			50	0	Front side	1720	0.406	0.55	24.00	23.43	1.140	0.463	/
LTE Band 4	20M	QPSK	1	0	Front side	1732.5	0.539	3.82	24.50	24.02	1.117	0.602	5
			50	0	Front side	1732.5	0.448	-3.24	24.00	23.38	1.153	0.517	/
			1	0	Front side	1745	0.481	-2.97	24.50	24.11	1.094	0.526	/
			50	0	Front side	1720	0.442	0.41	24.00	23.60	1.096	0.485	/
			100	0	Front side	1732.5	0.416	2.83	24.00	23.40	1.148	0.478	/
			100	0	Front side	1745	0.335	2.32	24.00	23.31	1.172	0.393	/
			100	0	Front side	1745	0.320	-0.56	24.00	23.51	1.119	0.358	/
			1	0	Back Side	1732.5	0.076	2.89	24.50	24.02	1.117	0.085	/
			50	0	Back Side	1745	0.065	0.85	24.00	23.60	1.096	0.071	/
			1	0	Left Side	1732.5	0.466	0.86	24.50	24.02	1.117	0.520	/
			50	0	Left Side	1745	0.408	-0.64	24.00	23.60	1.096	0.447	/
			1	0	Top Side	1732.5	0.063	2.88	24.50	24.02	1.117	0.070	/
			50	0	Top Side	1745	0.051	-1.37	24.00	23.60	1.096	0.056	/
			1	0	Front side	829	0.498	-3.74	24.00	23.93	1.016	0.506	6
			25	0	Front side	829	0.426	3.73	23.50	23.08	1.102	0.469	/
LTE Band 5	10M	QPSK	1	0	Front side	836.8	0.365	-3.29	24.00	23.89	1.026	0.374	/
			25	0	Front side	836.8	0.268	-3.01	23.50	22.99	1.125	0.301	/
			1	0	Front side	844	0.331	-2.16	24.00	23.01	1.256	0.416	/
			25	0	Front side	844	0.276	0.03	23.50	23.08	1.102	0.304	/
			50	0	Front side	829	0.253	-2.14	23.50	22.99	1.125	0.285	/
			50	0	Front side	836.8	0.277	3.23	23.50	23.04	1.112	0.308	/
			50	0	Front side	844	0.269	-3.87	23.50	23.08	1.102	0.296	/
			1	0	Back Side	836.8	0.083	2.48	24.00	23.89	1.026	0.085	/
			25	0	Back Side	844	0.071	-0.95	23.50	23.08	1.102	0.078	/
			1	0	Left Side	836.8	0.351	-3.85	24.00	23.89	1.026	0.360	/
			25	0	Left Side	844	0.299	-0.10	23.50	23.08	1.102	0.329	/
			1	0	Top Side	836.8	0.023	0.07	24.00	23.89	1.026	0.024	/
			25	0	Top Side	844	0.020	2.65	23.50	23.08	1.102	0.022	/



Band	BW (MHz)	Mod.	RB Size	RB offset	Test Position	Freq.	Result 10g (W/Kg)	Power Drift(%)	Max. Turn-up Power(dBm)	Meas. Output Power(dBm)	Scaling Factor	Scaled SAR (W/Kg)	Meas.No.
LTE Band 7	10M	QPSK	1	0	Front side	2510	0.486	-1.96	23.00	22.42	1.143	0.555	/
			50	0	Front side	2510	0.445	-1.10	22.50	21.68	1.208	0.537	/
			1	0	Front side	2535	0.571	1.05	23.00	22.76	1.057	0.603	7
			50	0	Front side	2535	0.495	2.18	22.50	22.12	1.091	0.540	/
			1	0	Front side	2560	0.517	-3.78	23.00	22.93	1.016	0.525	/
			50	0	Front side	2560	0.481	1.10	22.50	22.20	1.072	0.515	/
			100	0	Front side	2510	0.443	3.77	22.50	21.63	1.222	0.541	/
			100	0	Front side	2535	0.421	3.32	22.50	22.12	1.091	0.459	/
			100	0	Front side	2560	0.410	0.54	22.50	22.05	1.109	0.455	/
			1	0	Back Side	2535	0.078	-1.83	23.00	22.76	1.057	0.082	/
			50	0	Back Side	2560	0.065	2.77	22.50	22.20	1.072	0.070	/
			1	0	Left Side	2535	0.336	-3.02	23.00	22.76	1.057	0.355	/
			50	0	Left Side	2560	0.302	0.66	22.50	22.20	1.072	0.324	/
			1	0	Top Side	2535	0.050	-2.12	23.00	22.76	1.057	0.053	/
			50	0	Top Side	2560	0.041	-1.89	22.50	22.20	1.072	0.044	/
LTE Band 12	10M	QPSK	1	0	Front side	707.5	0.267	0.42	24.50	24.02	1.117	0.298	8
			25	0	Front side	707.5	0.163	0.56	23.50	23.14	1.086	0.177	/
			1	0	Back Side	707.5	0.033	-1.22	24.50	24.02	1.117	0.037	/
			25	0	Back Side	707.5	0.028	3.11	23.50	23.14	1.086	0.030	/
			1	0	Left Side	707.5	0.145	-0.37	24.50	24.02	1.117	0.162	/
			25	0	Left Side	707.5	0.133	0.48	23.50	23.14	1.086	0.144	/
			1	0	Top Side	707.5	0.025	-3.21	24.50	24.02	1.117	0.028	/
			25	0	Top Side	707.5	0.015	-3.17	23.50	23.14	1.086	0.016	/
LTE Band 13	10M	QPSK	1	0	Front side	782	0.227	3.45	24.00	23.87	1.030	0.234	9
			25	0	Front side	782	0.148	3.51	23.00	22.95	1.012	0.150	/
			1	0	Back Side	782	0.033	1.95	24.00	23.87	1.030	0.034	/
			25	0	Back Side	782	0.021	-0.70	23.00	22.95	1.012	0.021	/
			1	0	Left Side	782	0.141	2.75	24.00	23.87	1.030	0.145	/
			25	0	Left Side	782	0.125	2.33	23.00	22.95	1.012	0.126	/
			1	0	Top Side	782	0.010	2.63	24.00	23.87	1.030	0.010	/
			25	0	Top Side	782	0.006	-3.16	23.00	22.95	1.012	0.006	/
LTE Band 17	10M	QPSK	1	0	Front side	740	0.423	1.29	24.50	24.14	1.086	0.460	10
			25	0	Front side	710	0.365	-2.58	23.50	23.31	1.045	0.381	/
			1	0	Back Side	740	0.028	-3.74	24.50	24.14	1.086	0.030	/
			25	0	Back Side	710	0.021	-3.36	23.50	23.31	1.045	0.022	/
			1	0	Left Side	740	0.234	-3.41	24.50	24.14	1.086	0.254	/
			25	0	Left Side	710	0.208	2.19	23.50	23.31	1.045	0.217	/
			1	0	Top Side	740	0.012	-3.36	24.50	24.14	1.086	0.013	/
			25	0	Top Side	710	0.005	-1.71	23.50	23.31	1.045	0.005	/
LTE Band 38	20M	QPSK	1	0	Front side	2580	0.404	-2.30	23.00	22.85	1.035	0.418	11
			1	0	Front side	2595	0.328	2.68	23.00	22.94	1.014	0.333	/
			1	0	Front side	2610	0.266	1.47	23.00	23.33	0.927	0.247	/
			50	0	Front side	2610	0.251	1.40	23.00	22.62	1.091	0.274	/
			1	0	Back Side	2595	0.061	0.52	23.00	22.94	1.014	0.062	/
			50	0	Back Side	2610	0.052	-1.19	23.00	22.62	1.091	0.057	/
			1	0	Left Side	2595	0.263	-3.01	23.00	22.94	1.014	0.267	/
			50	0	Left Side	2610	0.241	2.14	23.00	22.62	1.091	0.263	/
			1	0	Top Side	2595	0.025	-2.73	23.00	22.94	1.014	0.025	/
			50	0	Top Side	2610	0.015	-3.19	23.00	22.62	1.091	0.016	/
LTE Band 41	20M	QPSK	1	0	Front side	2555	0.314	3.78	23.00	22.97	1.007	0.316	12
			50	0	Front side	2680	0.266	-0.04	22.50	22.39	1.026	0.273	/
			1	0	Back Side	2555	0.045	-0.36	23.00	22.97	1.007	0.045	/
			50	0	Back Side	2680	0.036	3.30	22.50	22.39	1.026	0.037	/
			1	0	Left Side	2555	0.263	-1.28	23.00	22.97	1.007	0.265	/
			50	0	Left Side	2680	0.237	0.89	22.50	22.39	1.026	0.243	/
			1	0	Top Side	2555	0.021	-1.81	23.00	22.97	1.007	0.021	/
			50	0	Top Side	2680	0.018	3.44	22.50	22.39	1.026	0.018	/
LTE Band 66	20M	QPSK	1	0	Front side	1745	0.250	-3.03	24.00	23.68	1.076	0.269	13
			50	0	Front side	1745	0.221	1.88	23.50	23.15	1.084	0.240	/
			1	0	Back Side	1745	0.021	-0.60	24.00	23.68	1.076	0.023	/
			50	0	Back Side	1745	0.018	2.24	23.50	23.15	1.084	0.020	/
			1	0	Left Side	1745	0.187	-3.64	24.00	23.68	1.076	0.201	/
			50	0	Left Side	1745	0.163	2.96	23.50	23.15	1.084	0.177	/
			1	0	Top Side	1745	0.011	1.84	24.00	23.68	1.076	0.012	/
			50	0	Top Side	1745	0.009	-0.59	23.50	23.15	1.084	0.010	/



Band	BW (MHz)	Mod.	RB Size	RB offset	Test Position	Freq.	Result 10g (W/Kg)	Power Drift(%)	Max. Turn-up Power(dBm)	Meas. Output Power(dBm)	Scaling Factor	Scaled SAR (W/Kg)	Meas.No.
2.4GHz WLAN	N/A	802.11b	N/A	N/A	Front Side	2437	0.049	3.94	17.00	16.83	1.040	0.051	/
					Back Side	2437	0.005	2.95	17.00	16.83	1.040	0.005	/
					Top Side	2437	0.033	0.49	17.00	16.83	1.040	0.034	/
2.4GHz WLAN	N/A	802.11 n-HT20	N/A	N/A	Front Side	2437	0.056	-3.49	17.50	16.89	1.151	0.064	14
					Back Side	2437	0.021	-2.13	17.50	16.89	1.151	0.024	/
					Top Side	2437	0.048	-2.36	17.50	16.89	1.151	0.055	/
5.2GHz WLAN	N/A	802.11 n-HT20	N/A	N/A	Front Side	5200	0.069	-0.62	14.00	13.75	1.059	0.073	15
					Back Side	5200	0.022	-3.52	14.00	13.75	1.059	0.023	/
					Top Side	5200	0.054	-1.26	14.00	13.75	1.059	0.057	/
5.3GHz WLAN	N/A	802.11 n-HT20	N/A	N/A	Front Side	5290	0.040	3.05	13.50	12.93	1.140	0.046	16
					Back Side	5290	0.011	-1.70	13.50	12.93	1.140	0.013	/
					Top Side	5290	0.028	-2.14	13.50	12.93	1.140	0.032	/
5.6GHz WLAN	N/A	802.11 n-HT20	N/A	N/A	Front Side	5600	0.063	-2.53	13.00	12.11	1.227	0.077	17
					Back Side	5600	0.018	-1.29	13.00	12.11	1.227	0.022	/
					Top Side	5600	0.044	1.17	13.00	12.11	1.227	0.054	/
5.8GHz WLAN	N/A	802.11 n-HT20	N/A	N/A	Front Side	5785	0.053	-0.03	13.50	13.39	1.026	0.054	18
					Back Side	5785	0.008	1.89	13.50	13.39	1.026	0.008	/
					Top Side	5785	0.042	1.41	13.50	13.39	1.026	0.043	/

Note:

- The test separation of all above table is 0mm.
- Per KDB 447498 D04, the reported SAR is the measured SAR value adjusted for maximum tune-up tolerance.
 - Tune-up scaling Factor = tune-up limit power (mW) / EUT RF power (mW), where tune-up limit is the maximum rated power among all production units.
 - Scaled SAR(W/kg)= Measured SAR(W/kg)*Tune-up Scaling Factor
- Per KDB 248227- When the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg. (The highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power was **0.095** W/Kg for Body)
- When the user enables the personal Wireless router functions for the handsets, actual operations include simultaneous transmission of both the Wi-Fi transmitting frequency and thus cannot be evaluated for SAR under actual use conditions. The "Portable Hotspot" feature on the handset was NOT activated, to ensure the SAR measurements were evaluated for a single transmission frequency RF signal.

**12.3 Repeated SAR**

Band	Mode	Test Position	Freq.	Result 1g (W/Kg)	Power Drift(%)	Max.Turn-up Power(dBm)	Meas.Output Power(dBm)	Scaled SAR(W/Kg)	Meas. No.
WCDMA Band V	RMC	Front Side	836.8	0.750	1.24	24.50	23.95	0.851	-
WCDMA Band IV	RMC	Front Side	1712.5	1.002	3.18	24.00	23.44	1.139	-

Band	BW (MHz)	Mod.	RB Size	RB offset	Test Position	Freq.	Result 1g (W/Kg)	Power Drift(%)	Max.Turn-up Power(dBm)	Meas.Output Power(dBm)	Scaled SAR(W/Kg)	Meas. No.
LTE Band 2	20M	QPSK	1	0	Front Side	1880	1.109	1.85	24.00	23.64	1.205	-
LTE Band 4	20M	QPSK	1	0	Front Side	1732.5	1.152	3.52	24.50	24.02	1.286	-
LTE Band 5	10M	QPSK	1	0	Front Side	829	0.854	0.51	24.00	23.93	0.868	-
LTE Band 7	20M	QPSK	1	0	Front Side	2535	1.141	0.97	23.00	22.76	1.206	-
LTE Band 38	20M	QPSK	1	0	Front Side	2580	0.837	1.05	23.00	22.85	0.867	-

12.4 Repeated SAR measurement

Band	Mode	Test Position	Freq.	Original Measured SAR 1g(W/kg)	1 st Repeated SAR 1g	Ratio	Original Measured SAR 1g(W/kg)	2nd Repeated SAR 1g	Ratio
WCDMA Band V	RMC	Front Side	836.8	0.778	0.750	1.038	-	-	-
WCDMA Band IV	RMC	Front Side	1712.5	1.032	1.002	1.030	-	-	-

Band	BW (MHz)	Mod.	RB Size	RB offset	Test Position	Freq.	Original Measured SAR 1g(W/kg)	1 st Repeated SAR 1g	Ratio	Original Measured	2nd Repeated SAR 1g	Ratio
LTE Band 2	20M	QPSK	1	0	Front Side	1880	1.151	1.109	1.038	-	-	-
LTE Band 4	20M	QPSK	1	0	Front Side	1732.5	1.192	1.152	1.035	-	-	-
LTE Band 5	10M	QPSK	1	0	Front Side	829	0.88	0.854	1.030	-	-	-
LTE Band 7	20M	QPSK	1	0	Front Side	2535	1.179	1.141	1.033	-	-	-
LTE Band 38	20M	QPSK	1	0	Front Side	2580	0.843	0.837	1.007	-	-	-

Note:

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



12.5 Simultaneous Multi-band Transmission Evaluation

Application Simultaneous Transmission information:

Position	Simultaneous State
Body&Limb	3. WCDMA + 2.4GHz WLAN/5G WLAN
	4. WCDMA + Bluetooth
	5. LTE + 2.4GHz WLAN/5G WLAN
	6. LTE + Bluetooth

NOTE:

1. Bluetooth and WLAN can't simultaneous transmission at the same time.
2. For simultaneous transmission at head and body exposure position, 2 transmitters simultaneous transmission was the worst state.
3. If the test separation distance is <5mm, 5mm is used for excluded SAR calculation.
4. KDB 447498 D01 v06 / 4.3.2 (2) when standalone SAR test exclusion applies to an antenna that transmits simultaneously with other antennas, the standalone SAR must be estimated according to following to determine simultaneous transmission SAR test exclusion: a) $(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm}) \cdot [\sqrt{f} \text{ (GHz)} / x] \text{ W/kg}$ for test separation distances $\leq 50 \text{ mm}$; Where $x = 7.5$ for 1-g SAR, and $x = 18.75$ for 10-g SAR. b) 0.4 W/Kg for 1-g SAR and 1.0 W/Kg for 10-g SAR, when the separation distance is $>50 \text{ mm}$.

Estimated SAR		Maximum Average Power		Dis.	Frequency(GHz)	Stand alone SAR(1&10g) [W/kg]
		dBm	mW			
BT	Wrist	1.97	1.574	0	2402	0.065

Estimated SAR		Maximum Average Power		Dis.	Frequency(GHz)	Stand alone SAR(1&10g) [W/kg]
		dBm	mW			
NFC	Wrist	-44.12	0.000	0	0.01356	0.065



Simultaneous Mode	Position	Mode	Max. 1-g SAR	1-g Sum SAR
			(W/kg)	(W/kg)
WCDMA + 2.4G WLAN	Body	WCDMA	1.174	1.316
		2.4G WLAN	0.142	
WCDMA + Bluetooth	Body	WCDMA	1.174	1.239
		Bluetooth	0.065	
WCDMA + Bluetooth	Body	WCDMA	1.174	1.174
		NFC	0.000	
WCDMA + 5G WLAN	Body	WCDMA	1.174	1.385
		5G WLAN	0.211	
LTE + 2.4G WLAN	Body	LTE	1.331	1.473
		2.4G WLAN	0.142	
LTE + Bluetooth	Body	LTE	1.331	1.396
		Bluetooth	0.065	
LTE + NFC	Body	LTE	1.331	1.331
		NFC	0.000	
LTE + 5G WLAN	Body	LTE	1.331	1.542
		5G WLAN	0.211	

Simultaneous Mode	Position	Mode	Max. 10-g SAR	10-g Sum SAR
			(W/kg)	(W/kg)
WCDMA + 2.4G WLAN	Limb	WCDMA	0.610	0.661
		2.4G WLAN	0.051	
WCDMA + Bluetooth	Limb	WCDMA	0.610	0.675
		Bluetooth	0.065	
WCDMA + Bluetooth	Limb	WCDMA	0.610	0.610
		NFC	0.000	
WCDMA + 5G WLAN	Limb	WCDMA	0.610	0.687
		5G WLAN	0.077	
LTE + 2.4G WLAN	Limb	LTE	0.603	0.654
		2.4G WLAN	0.051	
LTE + Bluetooth	Limb	LTE	0.603	0.668
		Bluetooth	0.065	
LTE + NFC	Limb	LTE	0.603	0.603
		NFC	0.000	
LTE + 5G WLAN	Limb	LTE	0.603	0.680
		5G WLAN	0.077	

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

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



13. Equipment List

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibration	Calibrated Until
SAR Test System	SATIMO	N/A	V5.3.15.11	N/A	N/A
750MHz Dipole	MVG	SID750	SN 30/14 DIP0G750-331	2023.07.04	2026.07.03
835MHz Dipole	MVG	SID835	SN 30/14 DIP0G835-332	2023.07.04	2026.07.03
1800MHz Dipole	MVG	SID1800	5023-DIP1G800-747	2023.12.20	2026.12.19
1900MHz Dipole	MVG	SID1900	SN 30/14 DIP1G900-333	2023.09.14	2026.09.13
2450MHz Dipole	MVG	SID2450	SN 30/14 DIP2G450-335	2023.07.04	2026.07.03
2600MHz Dipole	MVG	SID2600	SN 30/14 DIP2G600-336	2023.07.04	2026.07.03
Waveguide	MVG	SWG5500	SN 13/14 WGA32	2023.07.04	2026.07.03
E-Field Probe	MVG	SSE2	SN 08/21 EPG0352	2025.09.15	2026.09.14
Dielectric Probe Kit	MVG	SCLMP	SN 32/14 OCPG67	2025.09.15	2026.09.14
Antenna	MVG	ANTA3	SN 07/13 ZNTA52	N/A	N/A
Phantom1	MVG	SAM	SN 32/14 SAM115	N/A	N/A
Phone holder	MVG	N/A	SN 32/14 MSH97	N/A	N/A
Attenuator	Agilent	HXT-10-8-SMA	240327017	2026.02.04	2027.02.03
Directional coupler	Xi'an Xingbo	XBOH-OA08-20dB	211123-4-3	2026.02.03	2027.02.02
Network Analyzer	Agilent	E5071C	MY46520378	2025-09-26	2026-09-24
Multi Meter	Keithley	Multi Meter 2000	4050073	2025-09-22	2026-09-21
Signal Generator	Agilent	N5182A	MY50140530	2025-09-26	2026-09-25
Wireless Communication Test Set	Agilent	8960-E5515C	MY48360751	2026.02.04	2027.02.03
Wireless Communication Test Set	R&S	CMW500	156324	2025-09-25	2026-09-24
Power Amplifier	DESAY	WCS-DLNA50M8G50G1	CSKJLNA231227A	2025-09-29	2026-09-28
Power Meter	R&S	NRP	100510	2025-09-25	2026-09-24
Power Sensor	R&S	NRP-Z11	101919	2025-09-25	2026-09-24
Power Sensor	Keysight	U2021XA	MY56280002	2025-09-25	2026-09-24
Temperature hygrometer	TOPRIE	TP502V4-P	6700000124198	2025.10.09	2026.10.08
Thermograph	Elitech	RC-4	S/N EF7176501537	2025.10.17	2026.10.16



Appendix A. System Validation Plots

System Performance Check Data (750MHz)

Type: Phone measurement (Complete)

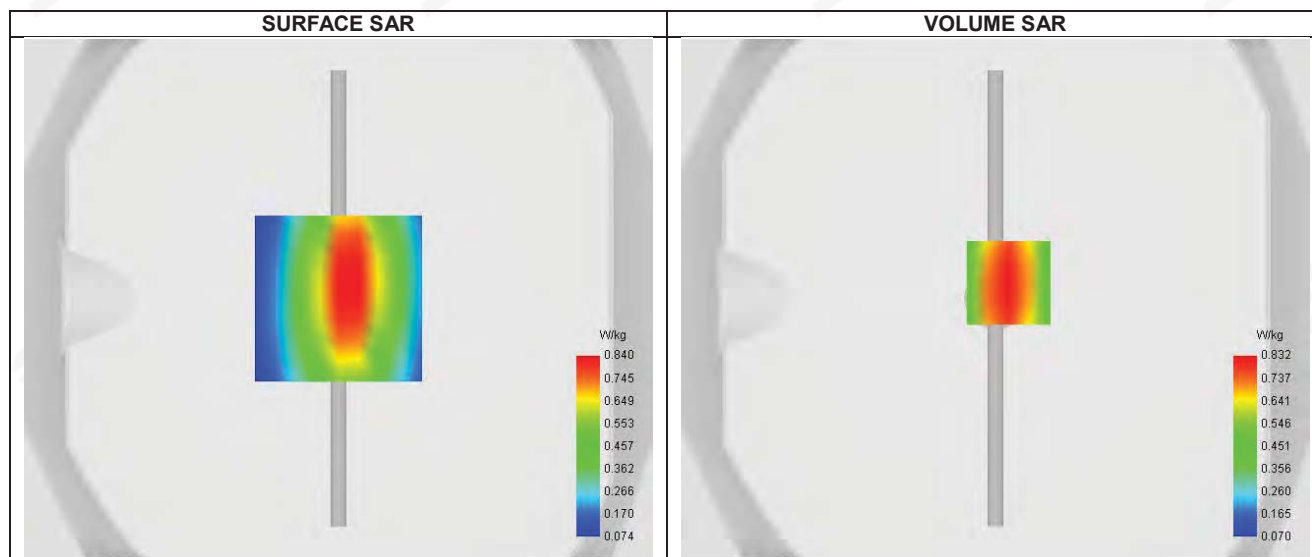
Area scan resolution: dx=8mm, dy=8mm

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

Date of measurement: 2026-03-02

Experimental conditions

Phantom	Validation plane
Device Position	Dipole
Band	750MHz
Channels	Middle
Signal	CW
Frequency (MHz)	750MHz
Relative permittivity	42.95
Conductivity (S/m)	0.89
Probe	SN 08/21 EPGO352
ConvF	1.51
Crest factor	1:1



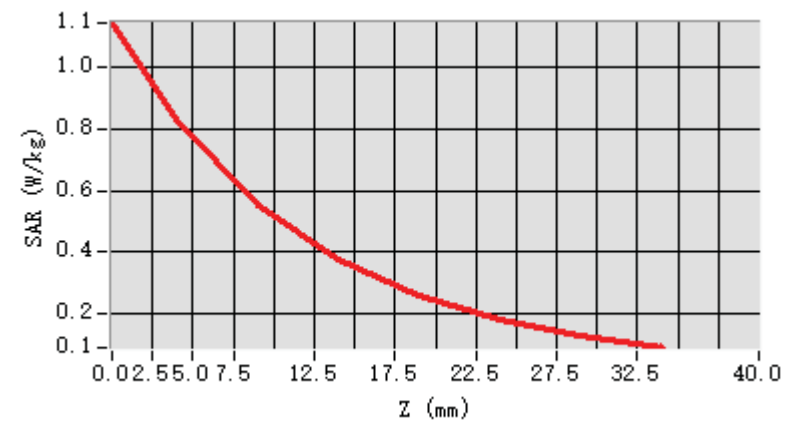
Maximum location: X=5.00, Y=6.00 ; SAR Peak: 1.14 W/kg

D. SAR 1g & 10g

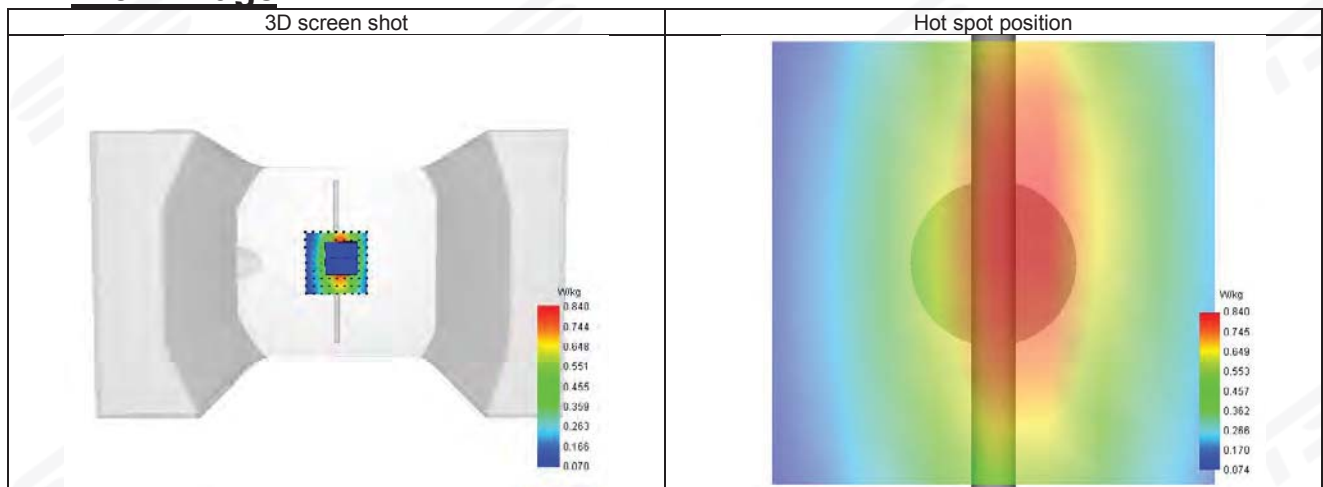
SAR 10g (W/Kg)	0.519
SAR 1g (W/Kg)	0.774
Horizontal validation criteria: minimum distance (mm)	11.842145
Vertical validation criteria: SAR ratio M2/M1 (%)	56.284416

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.147	0.832	0.556	0.380	0.261	0.181	0.129



F. 3D Image



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

Type: Phone measurement (Complete)

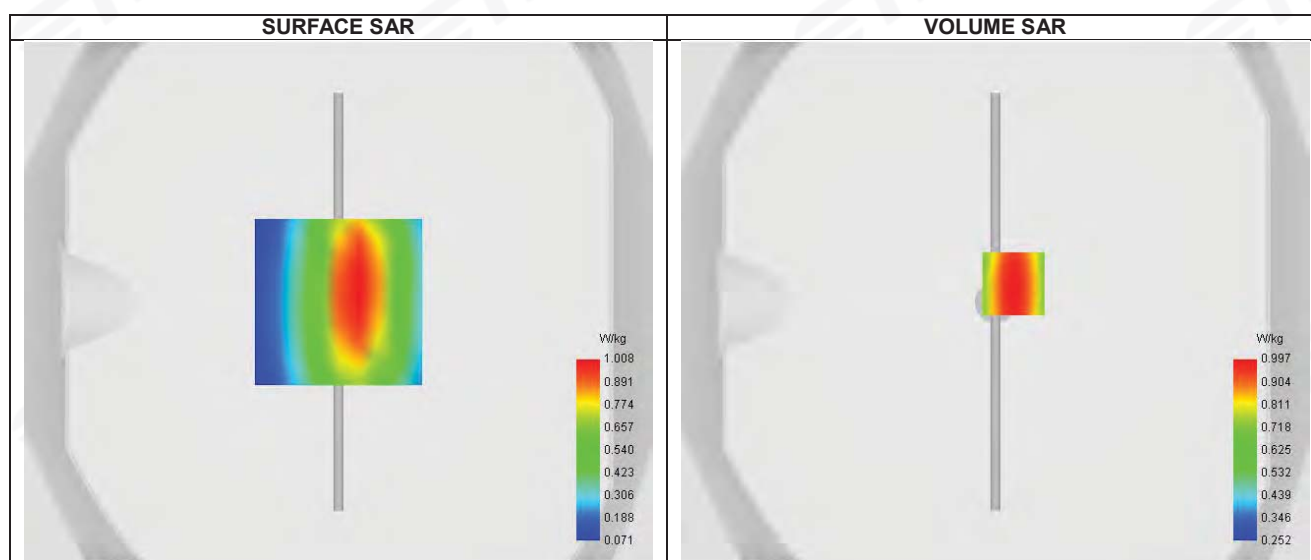
Area scan resolution: dx=8mm, dy=8mm

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

Date of measurement: 2026-03-01

Experimental conditions

Phantom	Validation plane
Device Position	Dipole
Band	835MHz
Channels	Middle
Signal	CW
Frequency (MHz)	835MHz
Relative permittivity	41.32
Conductivity (S/m)	0.92
Probe	SN 08/21 EPGO352
ConvF	1.49
Crest factor:	1:1



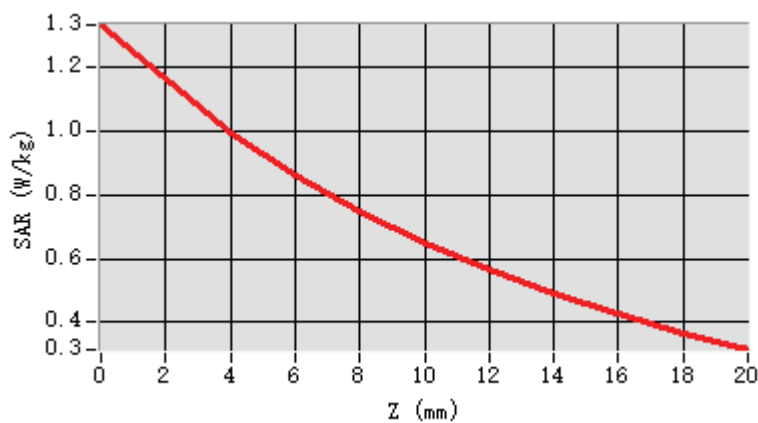
Maximum location: X=7.00, Y=7.00 ; SAR Peak: 1.38 W/kg

D. SAR 1g & 10g

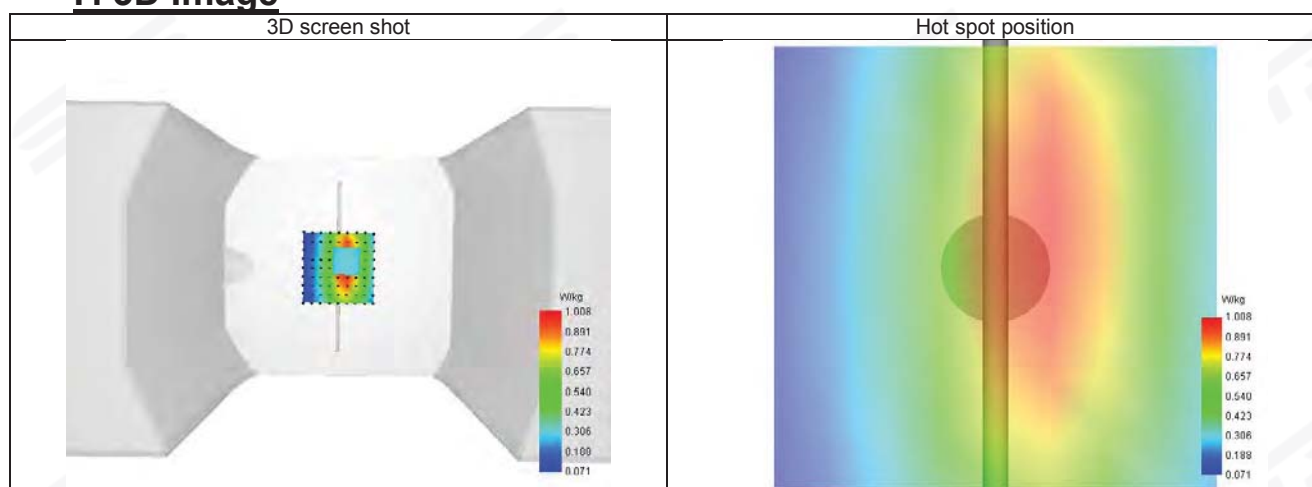
SAR 10g (W/Kg)	0.641
SAR 1g (W/Kg)	0.904
Horizontal validation criteria: minimum distance (mm)	12.409124
Vertical validation criteria: SAR ratio M2/M1 (%)	52.512897

E. Z Axis Scan

Z (mm)	0.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00
SAR (W/Kg)	1.335	0.997	0.864	0.749	0.650	0.565	0.491	0.426	0.367



F. 3D Image



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

Type: Phone measurement (Complete)

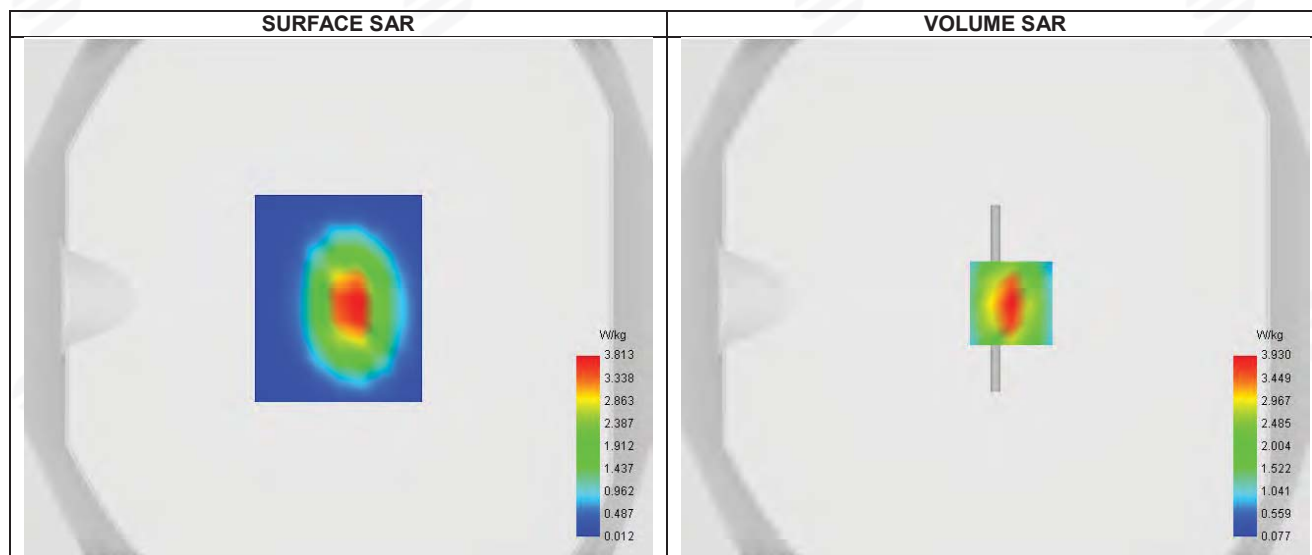
Area scan resolution: dx=8mm, dy=8mm

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

Date of measurement: 2026-03-04

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	1900MHz
Channels	Middle
Signal	CW
Frequency (MHz)	1800MHz
Relative permittivity	39.74
Conductivity (S/m)	1.41
Probe	SN 08/21 EPGO352
ConvF	1.54
Crest factor:	1:1



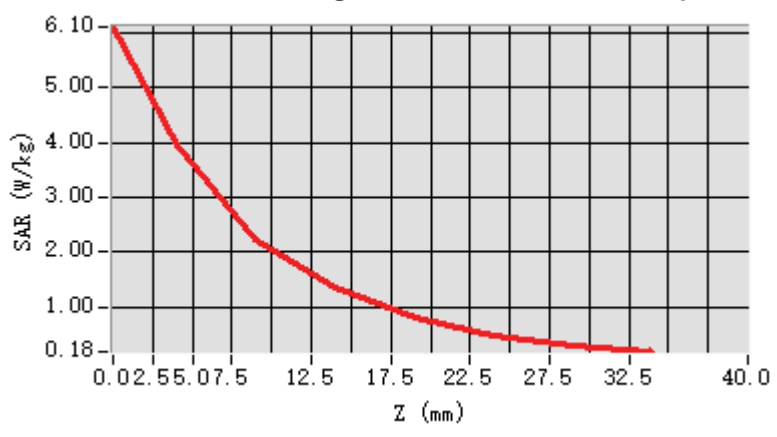
Maximum location: X=6.00, Y=-2.00 ; SAR Peak: 6.06 W/kg

D. SAR 1g & 10g

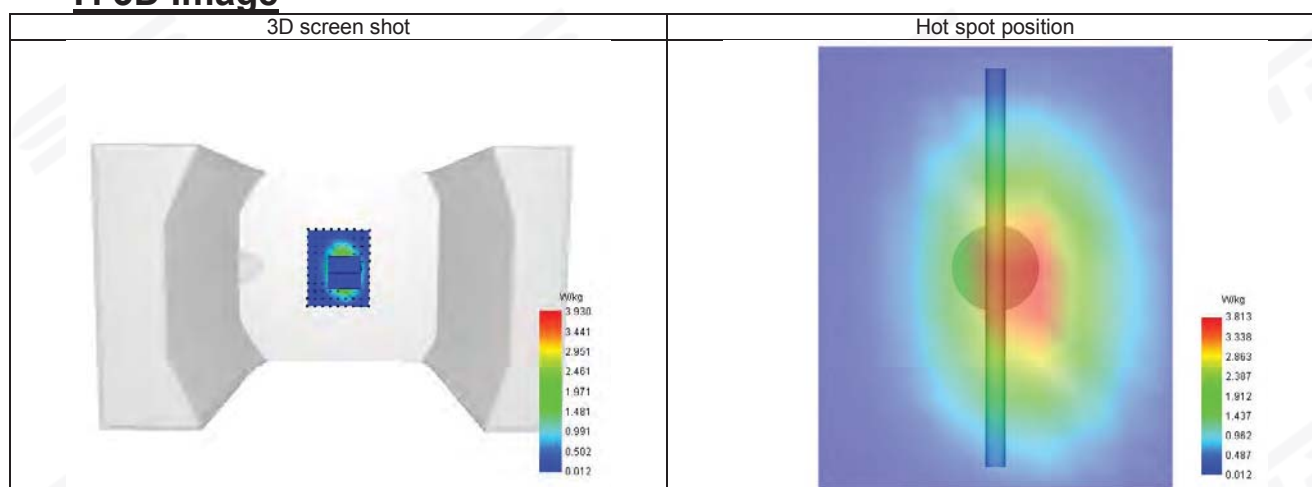
SAR 10g (W/Kg)	2.086
SAR 1g (W/Kg)	3.814
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	57.058113

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	6.102	3.930	2.243	1.345	0.807	0.479	0.284



F. 3D Image



**System Performance Check Data (1900MHz)**

Type: Phone measurement (Complete)

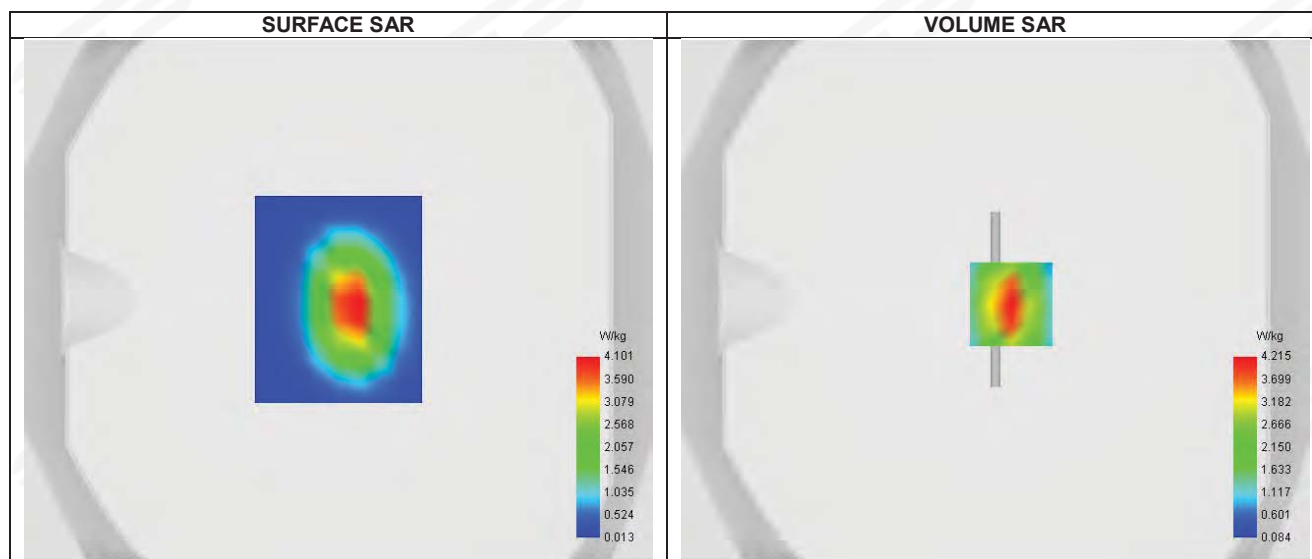
Area scan resolution: dx=8mm, dy=8mm

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

Date of measurement: 2026-03-04

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	1900MHz
Channels	Middle
Signal	CW
Frequency (MHz)	1900MHz
Relative permittivity	39.82
Conductivity (S/m)	1.40
Probe	SN 08/21 EPGO352
ConvF	1.73
Crest factor:	1:1



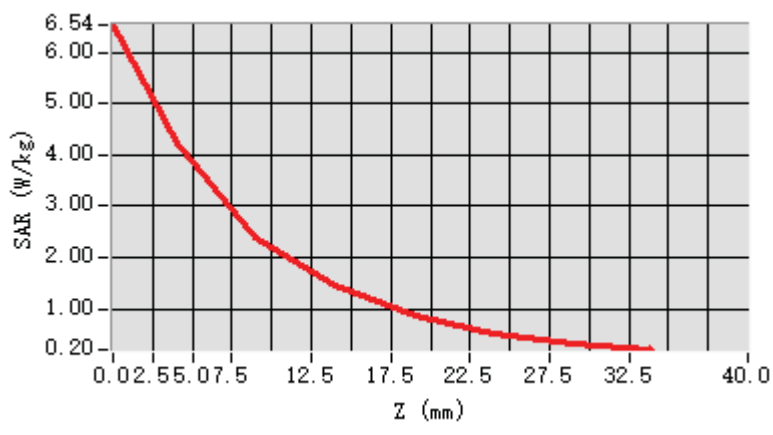
Maximum location: X=6.00, Y=-2.00 ; SAR Peak: 6.50 W/kg

D. SAR 1g & 10g

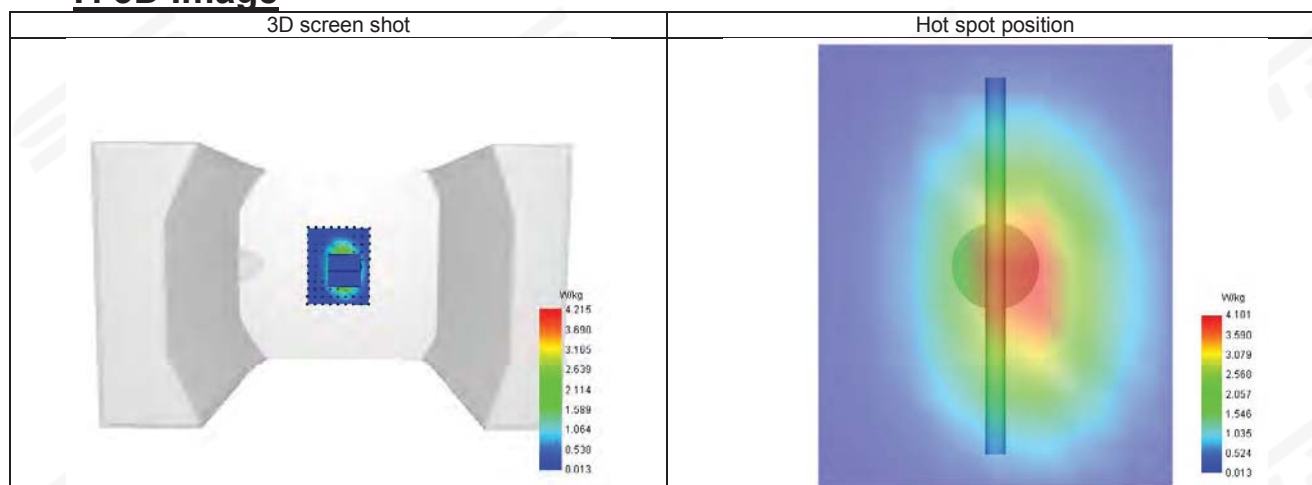
SAR 10g (W/Kg)	2.068
SAR 1g (W/Kg)	3.954
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	57.120709

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	6.543	4.215	2.408	1.435	0.866	0.514	0.305



F. 3D Image



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

Type: Phone measurement (Complete)

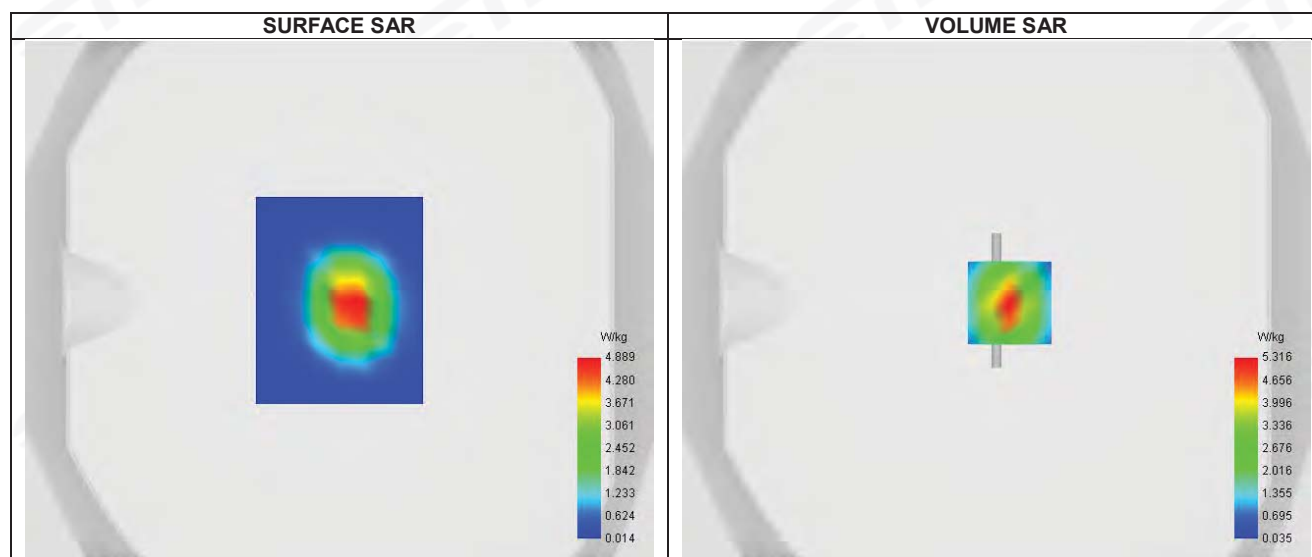
Area scan resolution: dx=8mm, dy=8mm

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

Date of measurement: 2026-03-05

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	2450MHz
Channels	Middle
Signal	CW
Frequency (MHz)	2450
Relative permittivity	39.83
Conductivity (S/m)	1.78
Probe	SN 08/21 EPGO352
ConvF	1.82
Crest factor:	1:1



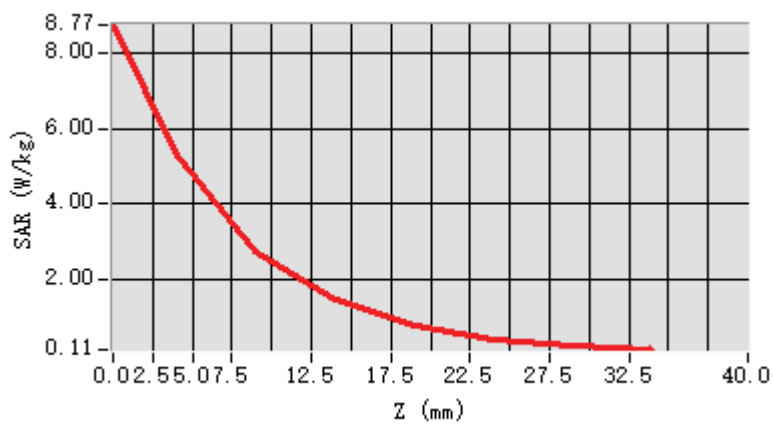
Maximum location: X=5.00, Y=-1.00 ; SAR Peak: 8.72 W/kg

D. SAR 1g & 10g

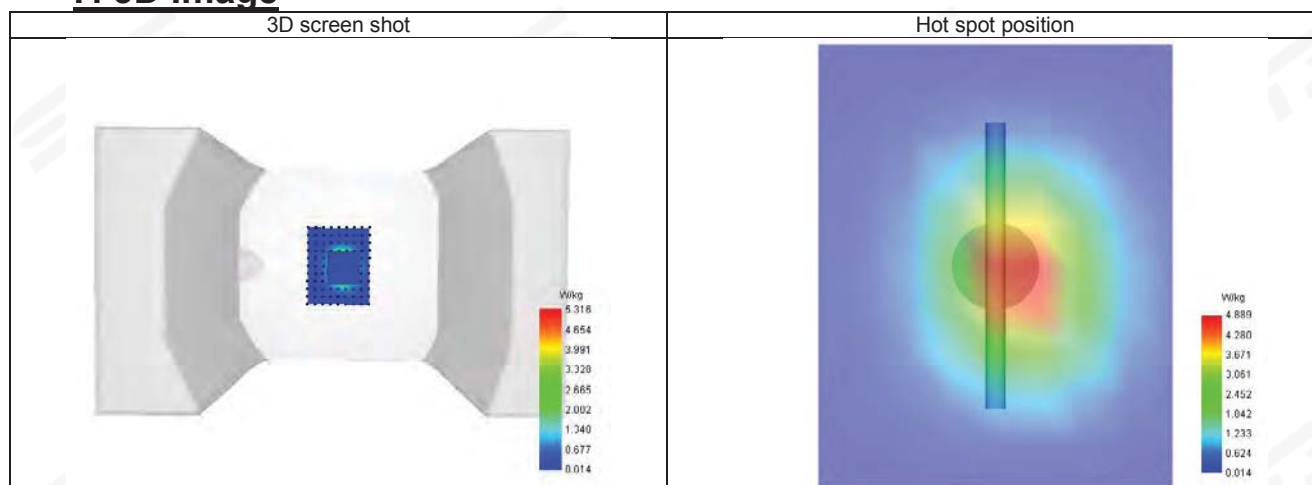
SAR 10g (W/Kg)	2.448
SAR 1g (W/Kg)	5.525
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	51.099515

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	8.769	5.316	2.717	1.425	0.740	0.384	0.199



F. 3D Image



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

Type: Phone measurement (Complete)

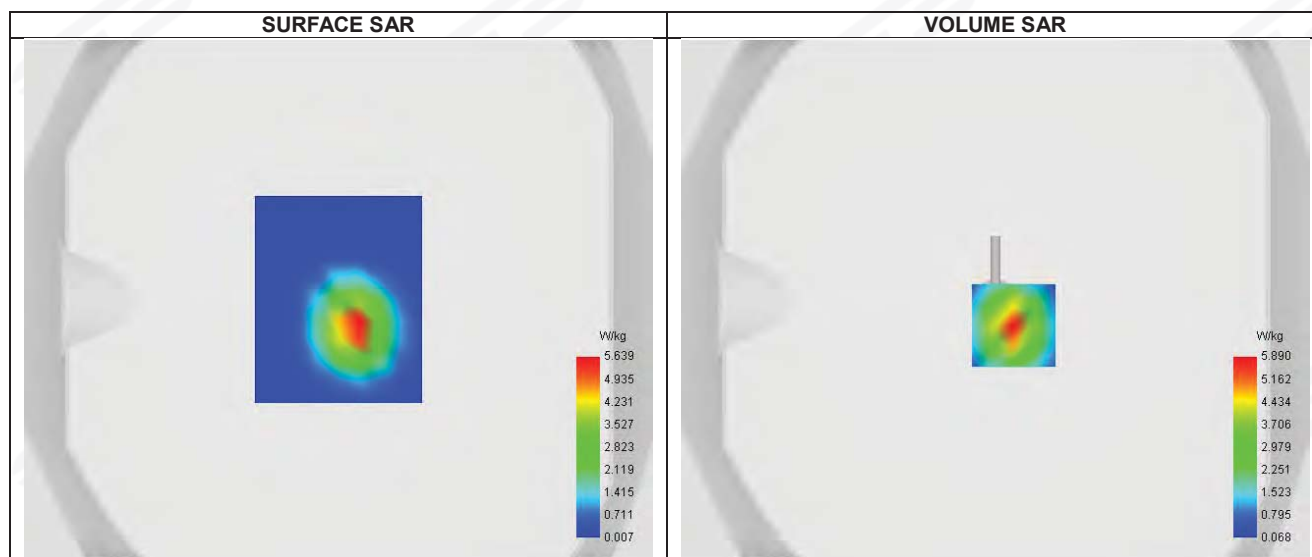
Area scan resolution: dx=8mm,dy=8mm

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

Date of measurement: 2026-03-05

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	2600MHz
Channels	Middle
Signal	CW
Frequency (MHz)	2600
Relative permittivity	38.79
Conductivity (S/m)	1.97
Probe	SN 08/21 EPGO352
ConvF	1.70
Crest factor:	1:1



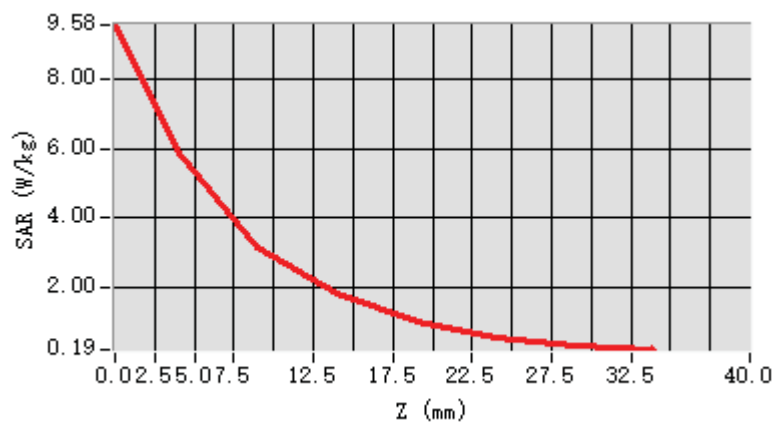
Maximum location: X=7.00, Y=-10.00 ; SAR Peak: 9.50 W/kg

D. SAR 1g & 10g

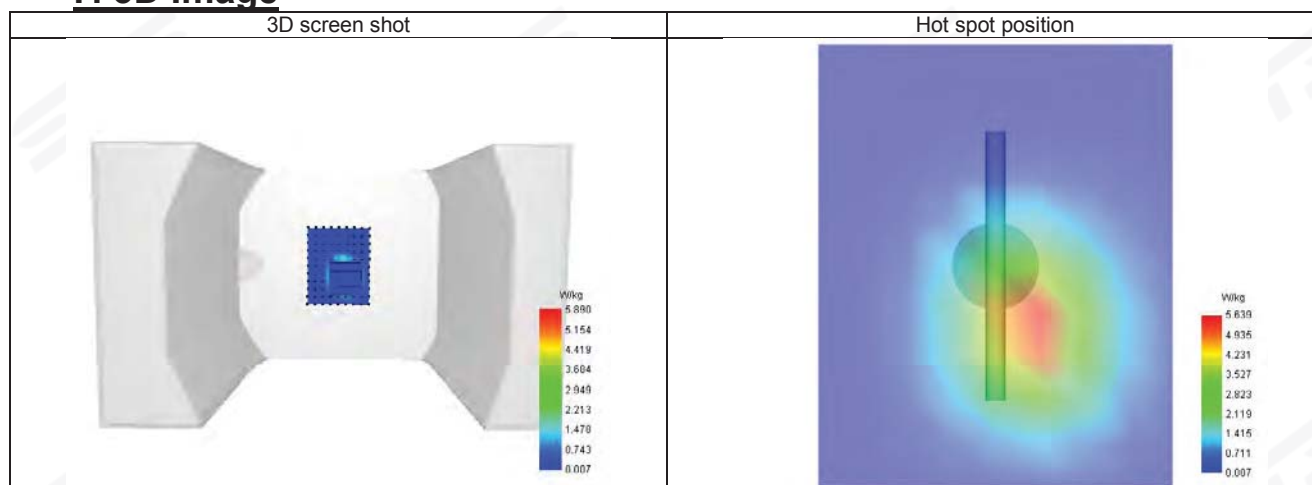
SAR 10g (W/Kg)	2.411
SAR 1g (W/Kg)	5.544
Horizontal validation criteria: minimum distance (mm)	11.313708
Vertical validation criteria: SAR ratio M2/M1 (%)	53.006704

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	9.577	5.890	3.122	1.805	1.007	0.562	0.314



F. 3D Image



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

Type: Dipole measurement (Complete)

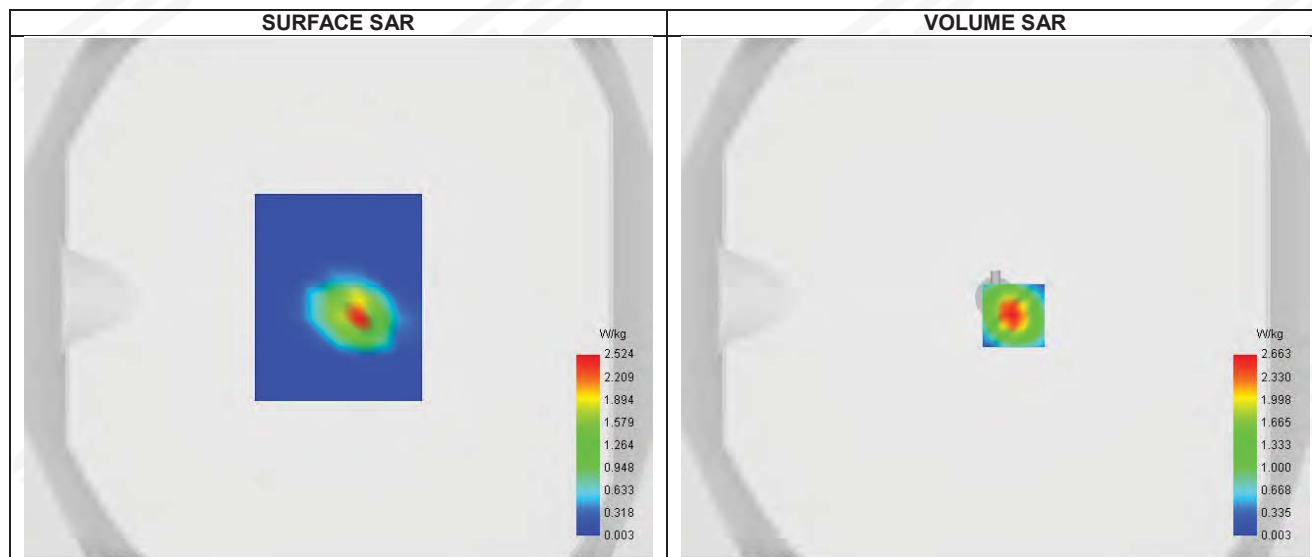
Area scan resolution: dx=8mm,dy=8mm

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

Date of measurement: 2026-03-27

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	5200MHz
Channels	Middle
Signal	CW
Frequency (MHz)	5200
Relative permittivity	36.24
Conductivity (S/m)	4.65
Probe	SN 08/21 EPGO352
ConvF	1.37
Crest factor:	1:1



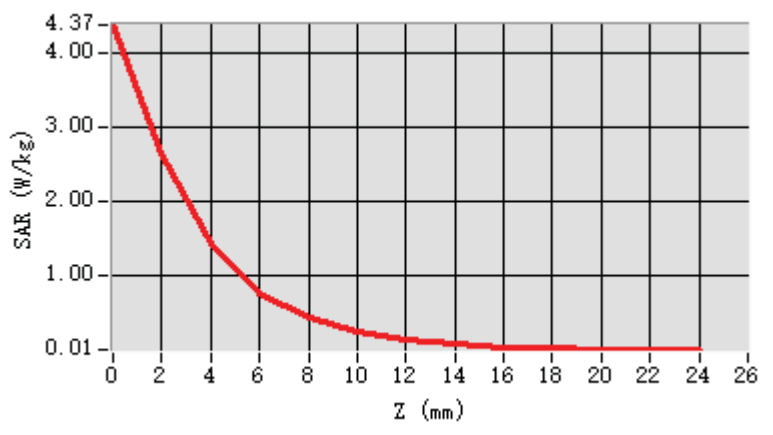
Maximum location: X=7.00, Y=-7.00 ; SAR Peak: 4.62 W/kg

D. SAR 1g & 10g

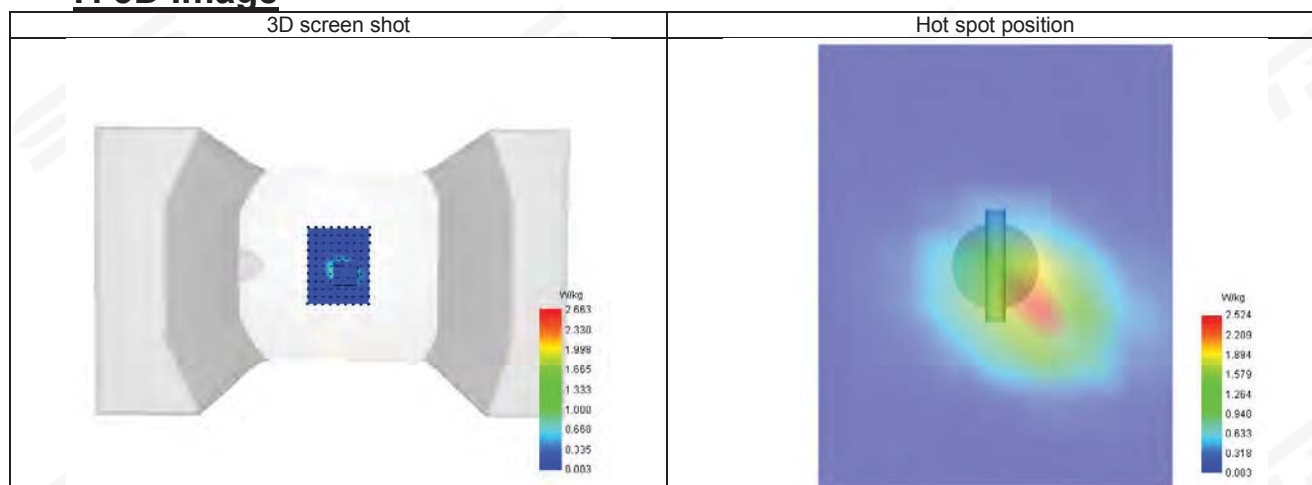
SAR 10g (W/Kg)	0.605
SAR 1g (W/Kg)	1.698
Horizontal validation criteria: minimum distance (mm)	8.944272
Vertical validation criteria: SAR ratio M2/M1 (%)	53.798366

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)	4.375	2.663	1.433	0.772	0.446	0.248	0.137	0.076	0.042	0.023	0.013	0.007



F. 3D Image



**System Performance Check Data (5300MHz)**

Type: Dipole measurement (Complete)

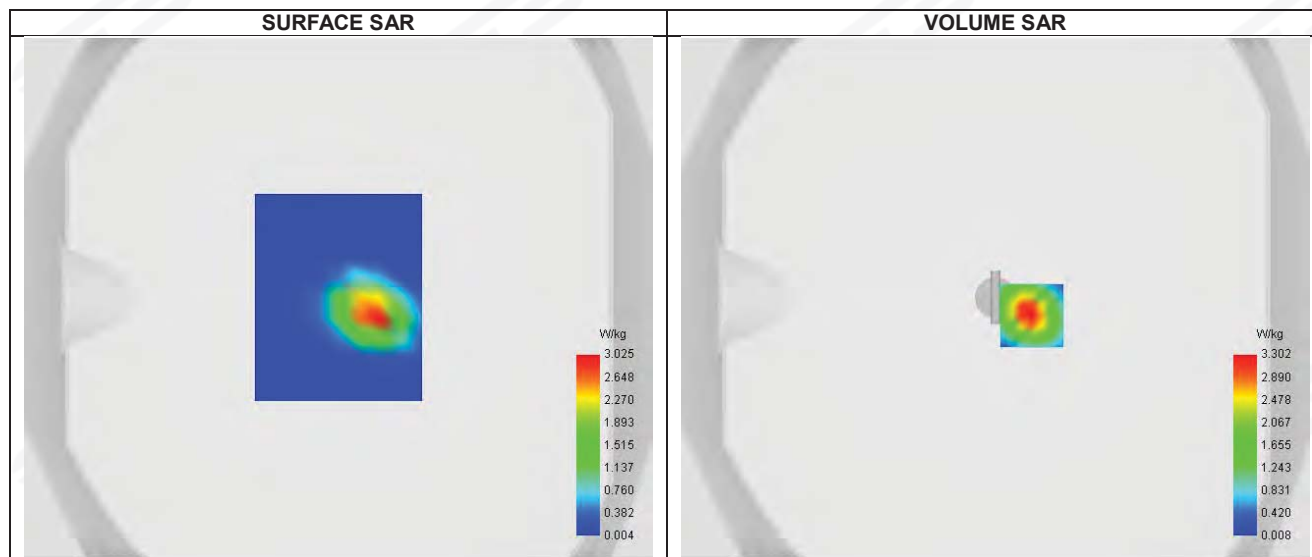
Area scan resolution: dx=8mm,dy=8mm

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

Date of measurement: 2026-03-28

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	5300MHz
Channels	Middle
Signal	CW
Frequency (MHz)	5300
Relative permittivity	35.75
Conductivity (S/m)	4.85
Probe	SN 08/21 EPGO352
ConvF	1.26
Crest factor:	1:1



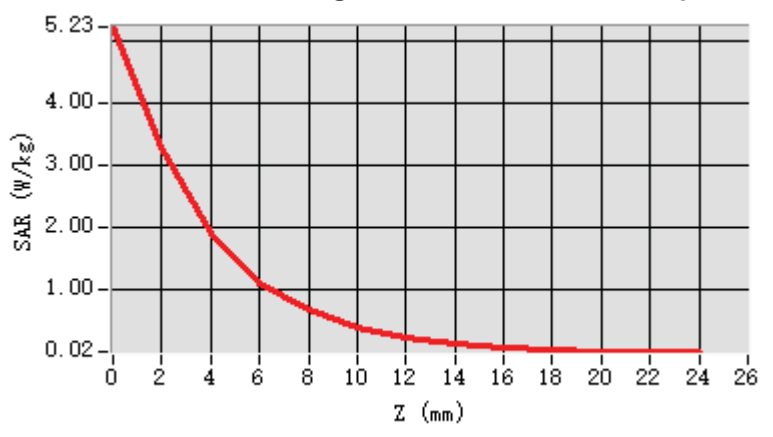
Maximum location: X=14.00, Y=-7.00 ; SAR Peak: 5.48 W/kg

D. SAR 1g & 10g

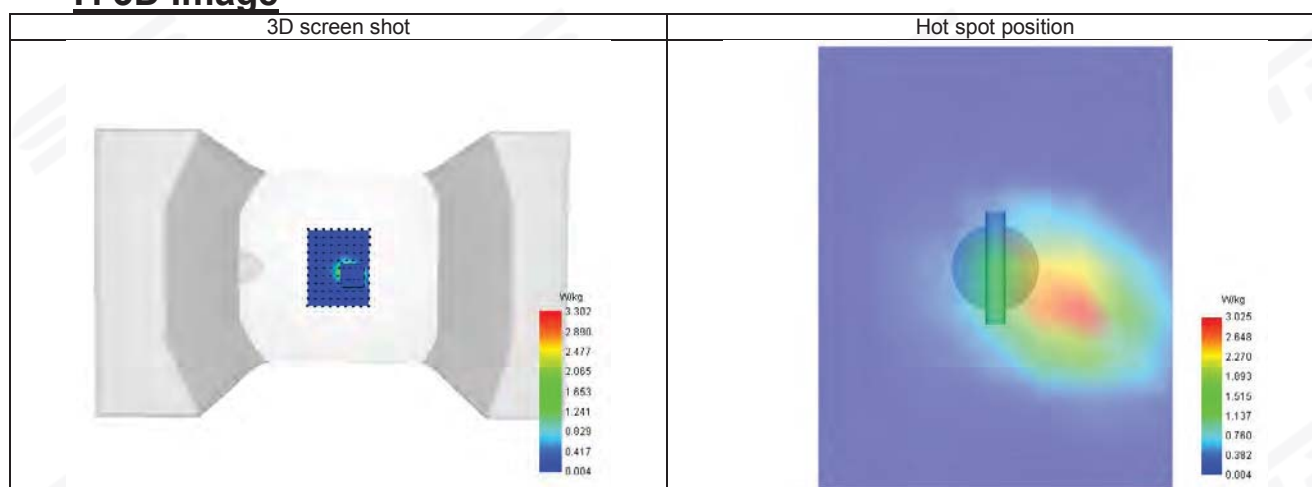
SAR 10g (W/Kg)	0.595
SAR 1g (W/Kg)	1.656
Horizontal validation criteria: minimum distance (mm)	8.944272
Vertical validation criteria: SAR ratio M2/M1 (%)	58.332163

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)	5.225	3.302	1.926	1.101	0.699	0.419	0.252	0.151	0.091	0.054	0.033	0.020



F. 3D Image



**System Performance Check Data (5600MHz)**

Type: Dipole measurement (Complete)

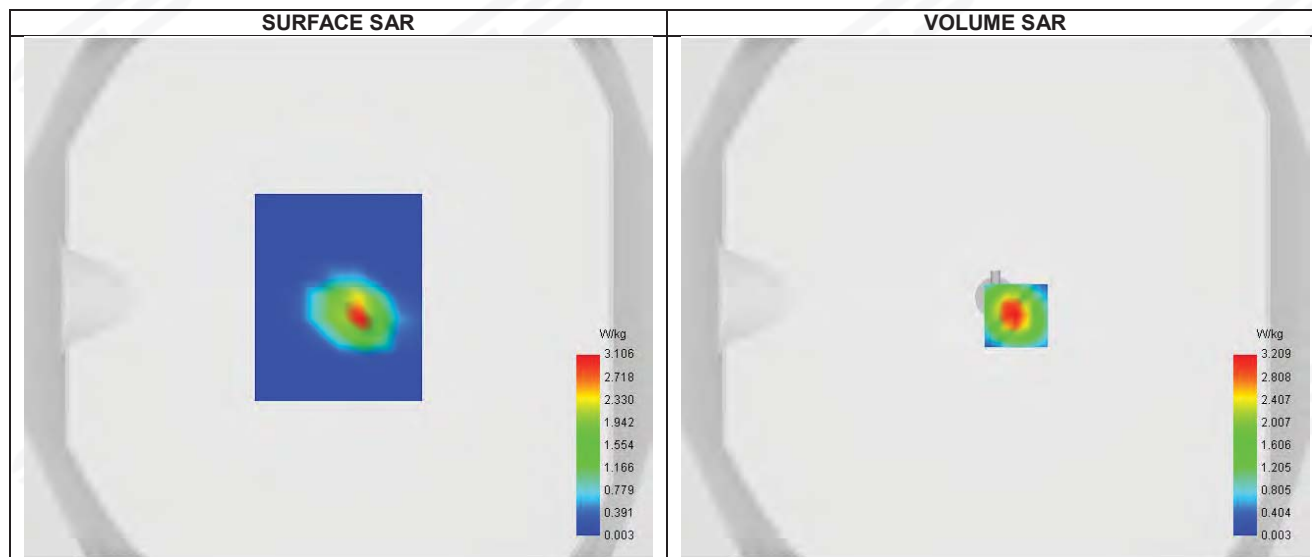
Area scan resolution: dx=8mm,dy=8mm

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

Date of measurement: 2026-03-28

Experimental conditions.

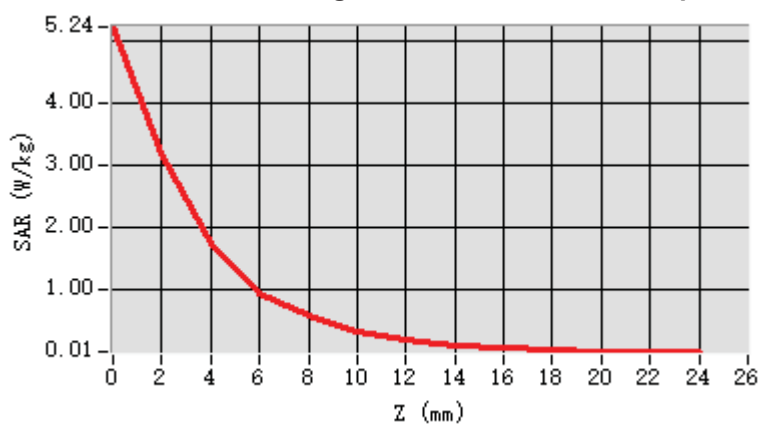
Phantom	Validation plane
Device Position	Dipole
Band	5600MHz
Channels	Middle
Signal	CW
Frequency (MHz)	5600
Relative permittivity	36.08
Conductivity (S/m)	5.07
Probe	SN 08/21 EPGO352
ConvF	1.21
Crest factor:	1:1

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

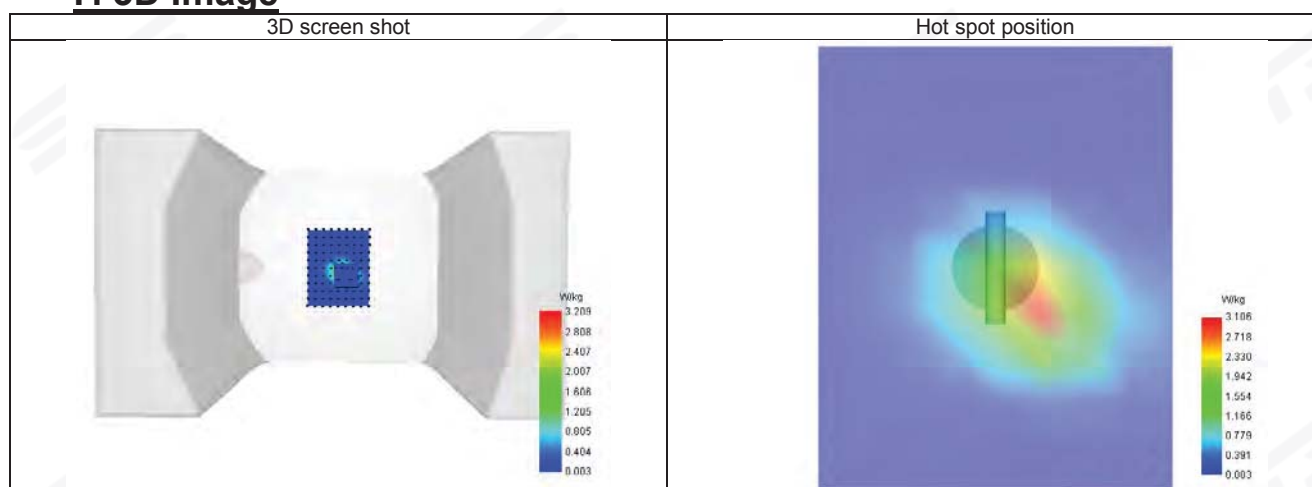
SAR 10g (W/Kg)	0.643
SAR 1g (W/Kg)	1.893
Horizontal validation criteria: minimum distance (mm)	8.944272
Vertical validation criteria: SAR ratio M2/M1 (%)	54.722889

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)	5.240	3.209	1.756	0.944	0.586	0.335	0.192	0.110	0.063	0.036	0.021	0.012



F. 3D Image



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

Type: Dipole measurement (Complete)

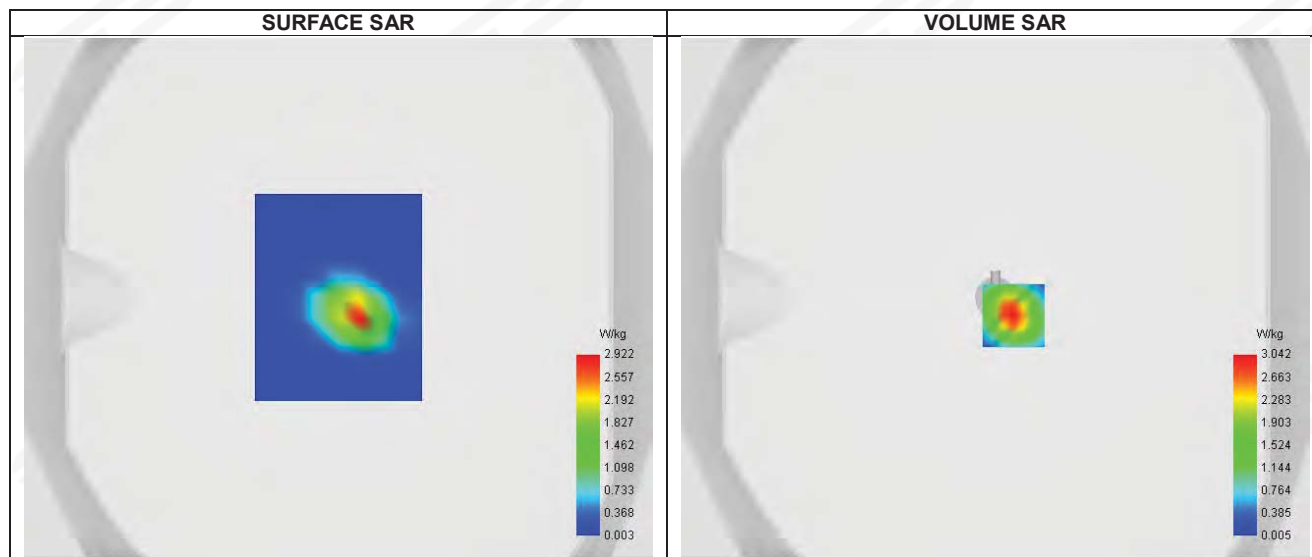
Area scan resolution: dx=8mm,dy=8mm

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

Date of measurement: 2026-03-27

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	5800MHz
Channels	Middle
Signal	CW
Frequency (MHz)	5800
Relative permittivity	36.23
Conductivity (S/m)	5.27
Probe	SN 08/21 EPGO352
ConvF	1.32
Crest factor:	1:1



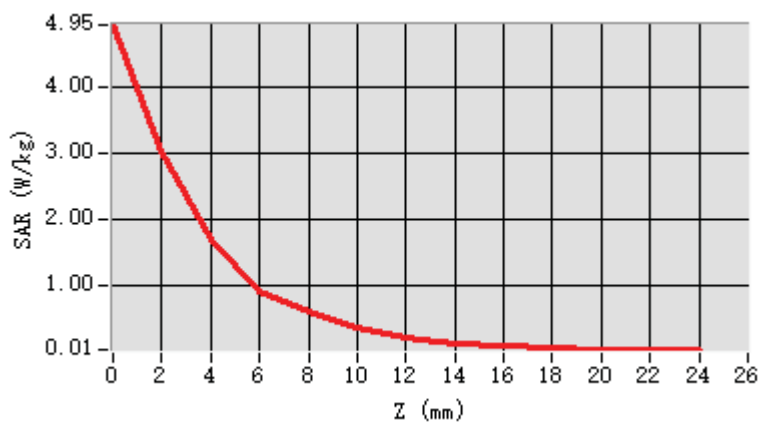
Maximum location: X=7.00, Y=-7.00 ; SAR Peak: 5.26 W/kg

D. SAR 1g & 10g

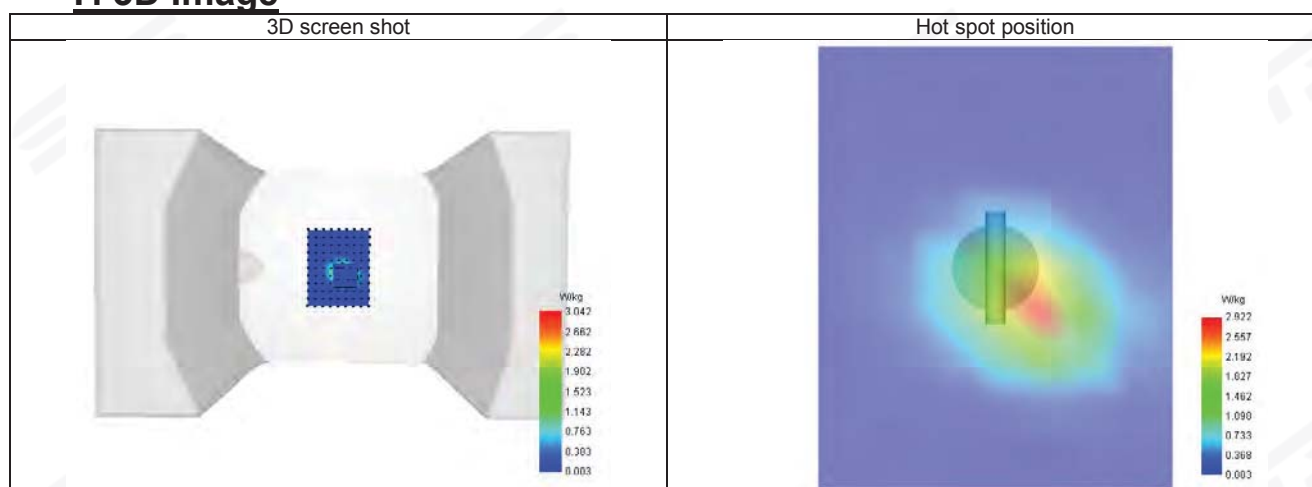
SAR 10g (W/Kg)	0.643
SAR 1g (W/Kg)	1.975
Horizontal validation criteria: minimum distance (mm)	8.944272
Vertical validation criteria: SAR ratio M2/M1 (%)	55.315114

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)	4.950	3.042	1.683	0.904	0.577	0.335	0.195	0.113	0.066	0.038	0.022	0.013



F. 3D Image

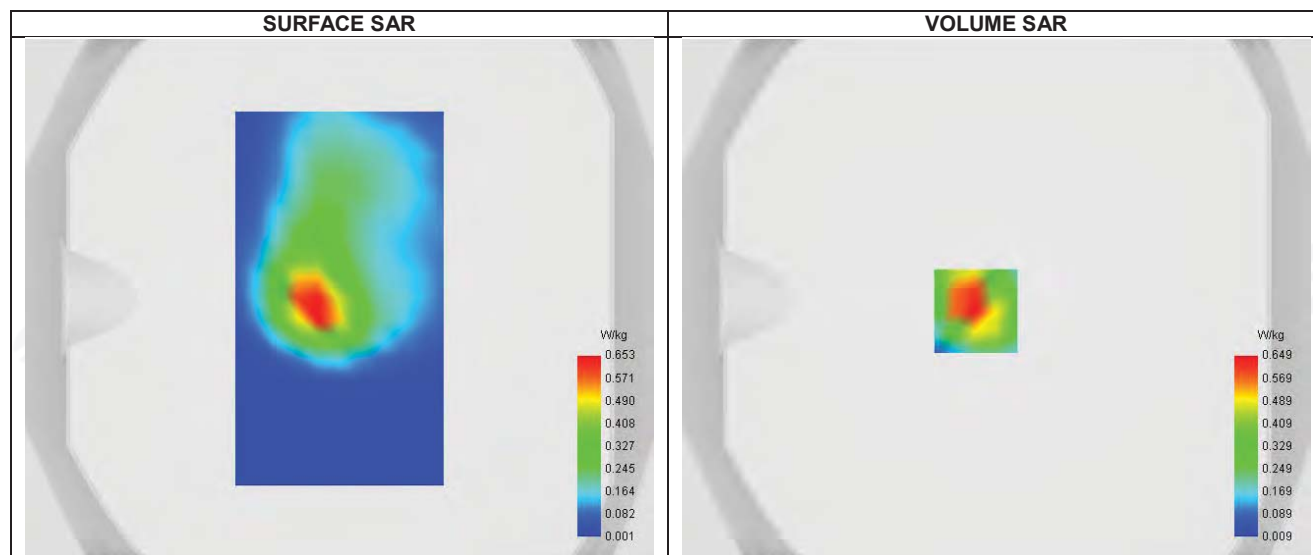




Appendix B. SAR Test Plots

Plot 1: DUT: Smart Controller; EUT Model: RC3000

Test Date	2026-03-04
ConvF	1.73
Probe	SN 08/21 EPG0352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm
Phantom	Body&Limb
Device Position	Front Side
Band	WCDMA II
Signal	WCDMA (Crest factor: 1.0)
Frequency (MHz)	1880
Relative permittivity (real part)	39.74
Conductivity (S/m)	1.41

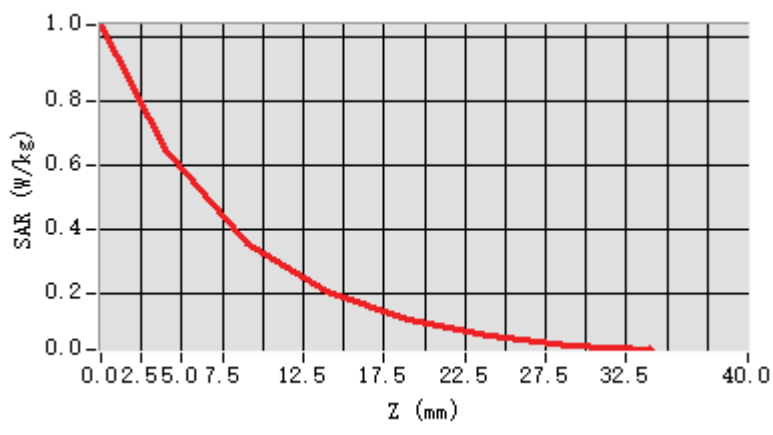


D. SAR 1g & 10g

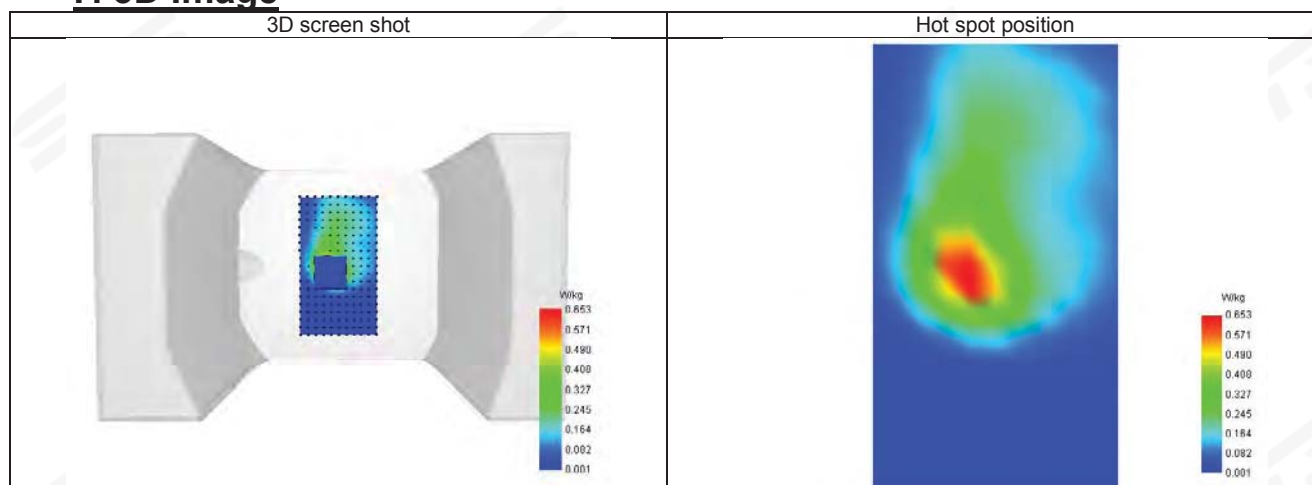
SAR 10g (W/Kg)	0.320
SAR 1g (W/Kg)	0.627
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	54.182109

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.038	0.649	0.351	0.203	0.114	0.064	0.036

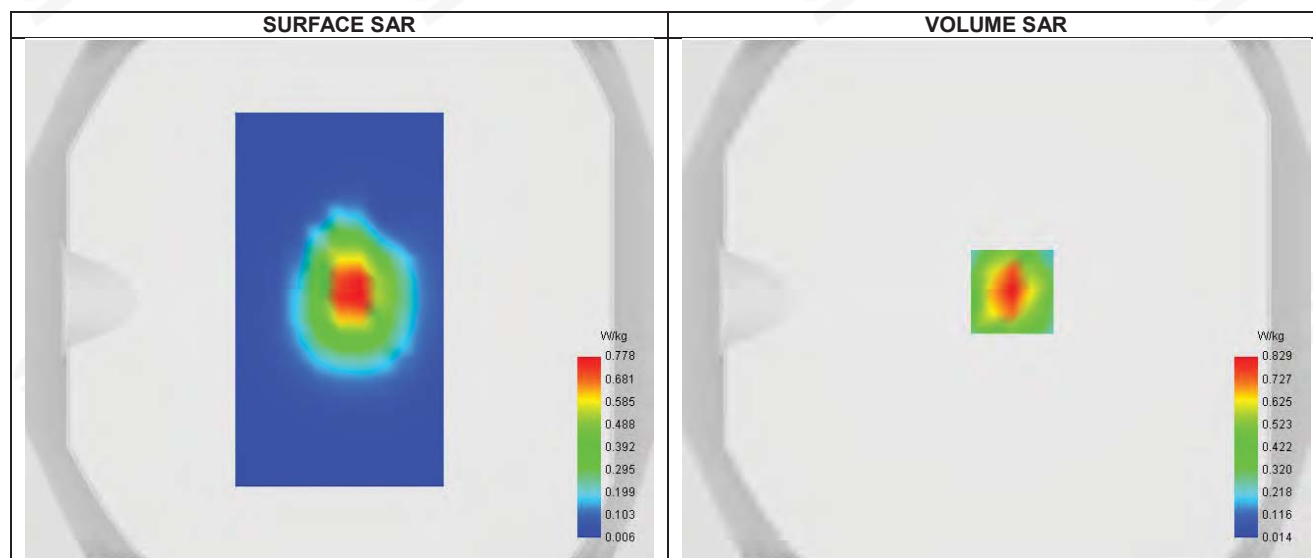


F. 3D Image



**Plot 2: DUT: Smart Controller; EUT Model: RC3000**

Test Date	2026-03-01
ConvF	1.49
Probe	SN 08/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm
Phantom	Body&Limb
Device Position	Front Side
Band	WCDMA V
Signal	WCDMA (Crest factor: 1.0)
Frequency (MHz)	836.8
Relative permittivity (real part)	41.77
Conductivity (S/m)	0.90



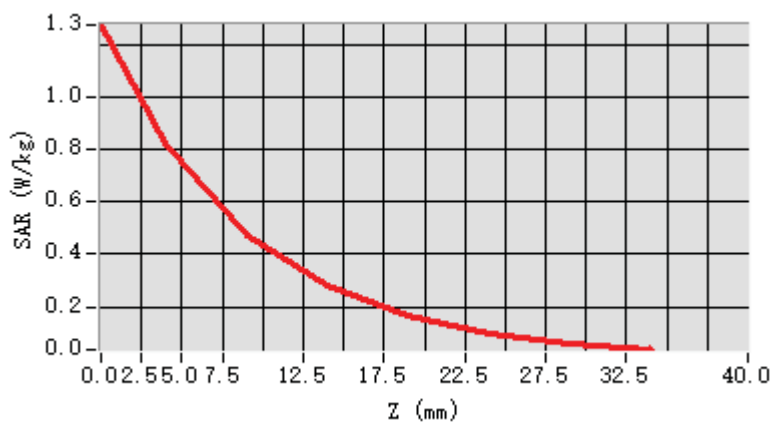
Maximum location: X=6.00, Y=3.00 ; SAR Peak: 1.27 W/kg

D. SAR 1g & 10g

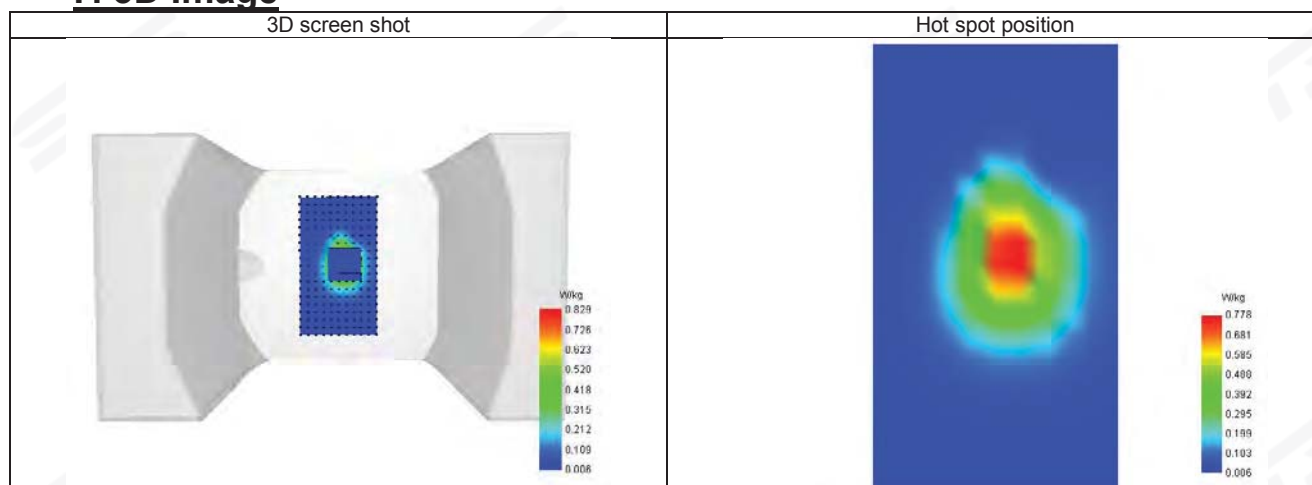
SAR 10g (W/Kg)	0.414
SAR 1g (W/Kg)	0.778
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	57.159146

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.280	0.829	0.474	0.280	0.165	0.097	0.057

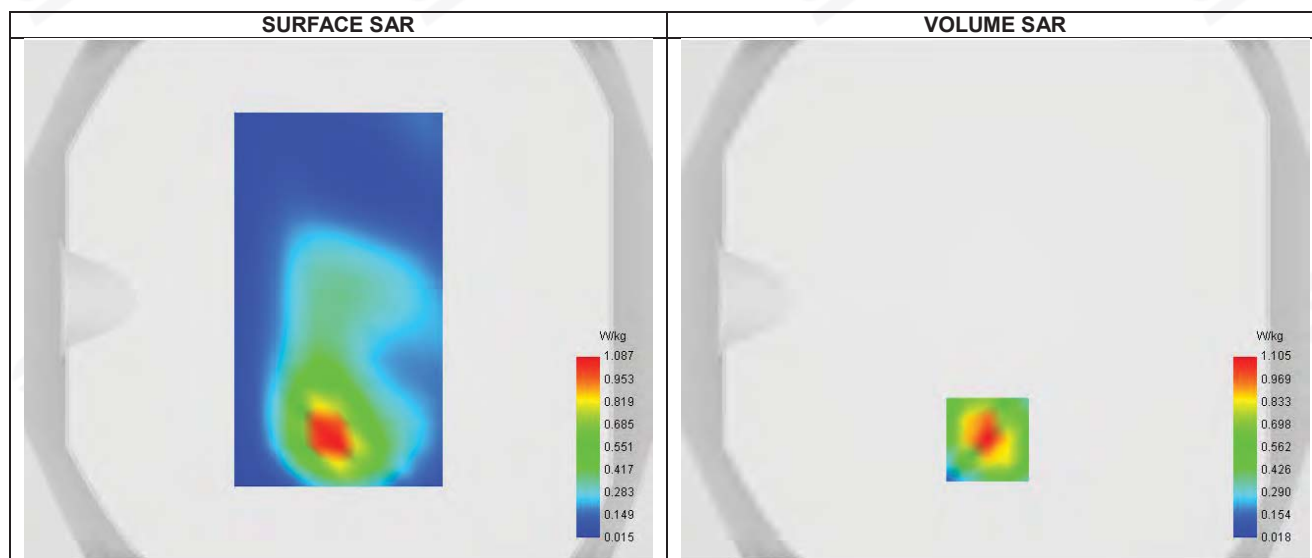


F. 3D Image



**Plot 3: DUT: Smart Controller; EUT Model: RC3000**

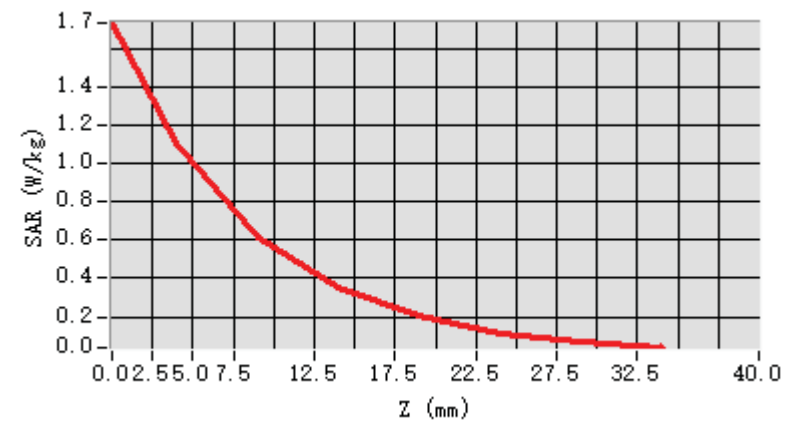
Test Date	2026-03-04
ConvF	1.54
Probe	SN 08/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm
Phantom	Body&Limb
Device Position	Front Side
Band	WCDMA IV
Signal	WCDMA (Crest factor: 1.0)
Frequency (MHz)	1712.5
Relative permittivity (real part)	41.02
Conductivity (S/m)	1.36

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

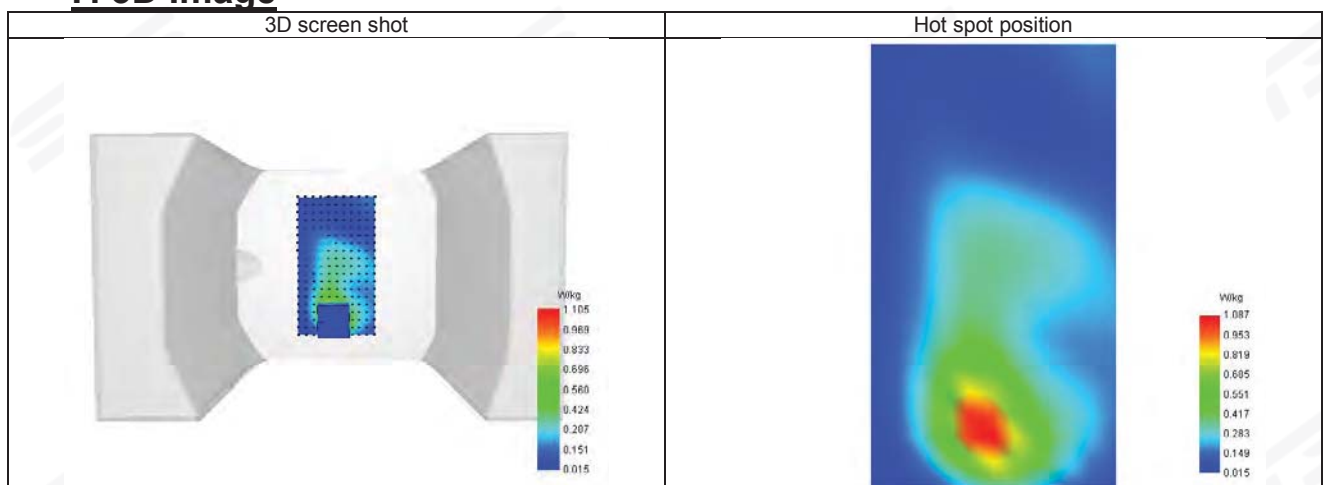
SAR 10g (W/Kg)	0.536
SAR 1g (W/Kg)	1.032
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	55.611974

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.733	1.105	0.615	0.354	0.201	0.114	0.065

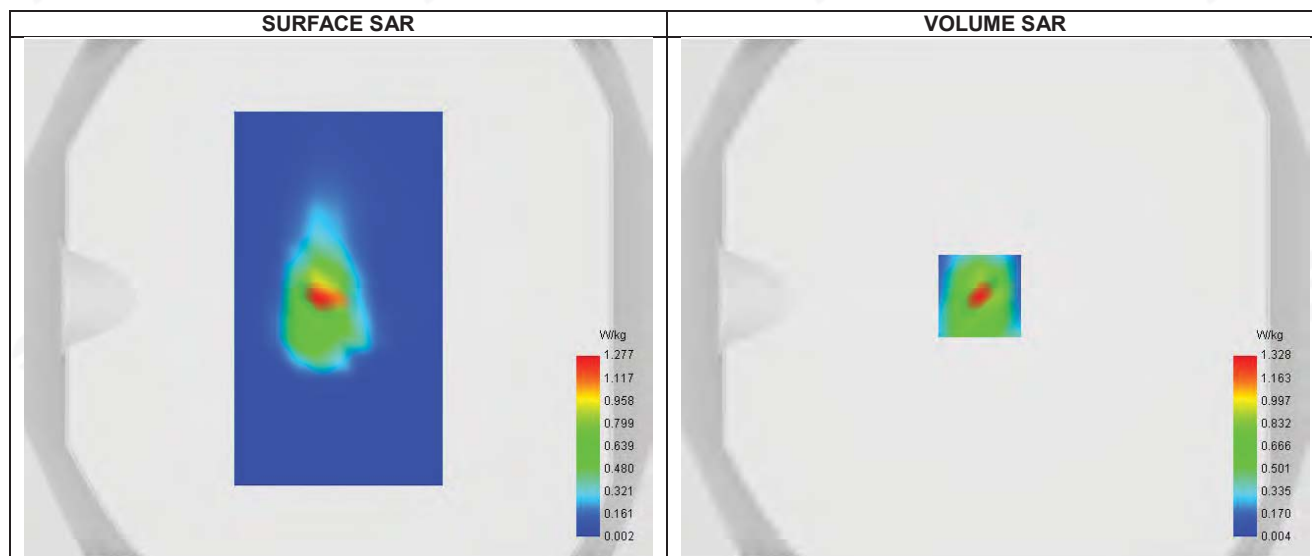


F. 3D Image



**Plot 4: DUT: Smart Controller; EUT Model: RC3000**

Test Date	2026-03-04
ConvF	1.73
Probe	SN 08/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm
Phantom	Body&Limb
Device Position	Front Side
Band	LTE Band 2(RB 1)
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	1880
Relative permittivity (real part)	40.22
Conductivity (S/m)	1.40



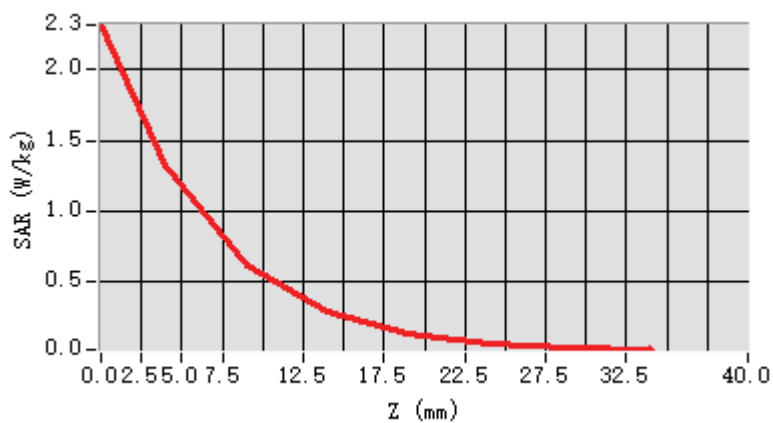
Maximum location: X=-6.00, Y=1.00 ; SAR Peak: 2.31 W/kg

D. SAR 1g & 10g

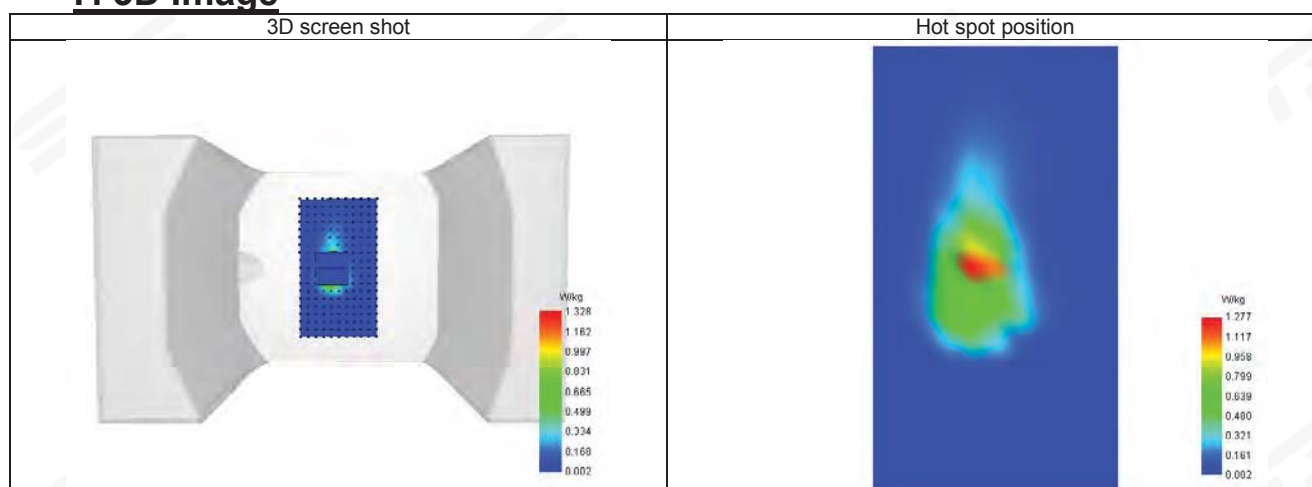
SAR 10g (W/Kg)	0.468
SAR 1g (W/Kg)	1.151
Horizontal validation criteria: minimum distance (mm)	11.313708
Vertical validation criteria: SAR ratio M2/M1 (%)	46.133932

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	2.319	1.328	0.613	0.285	0.132	0.061	0.028

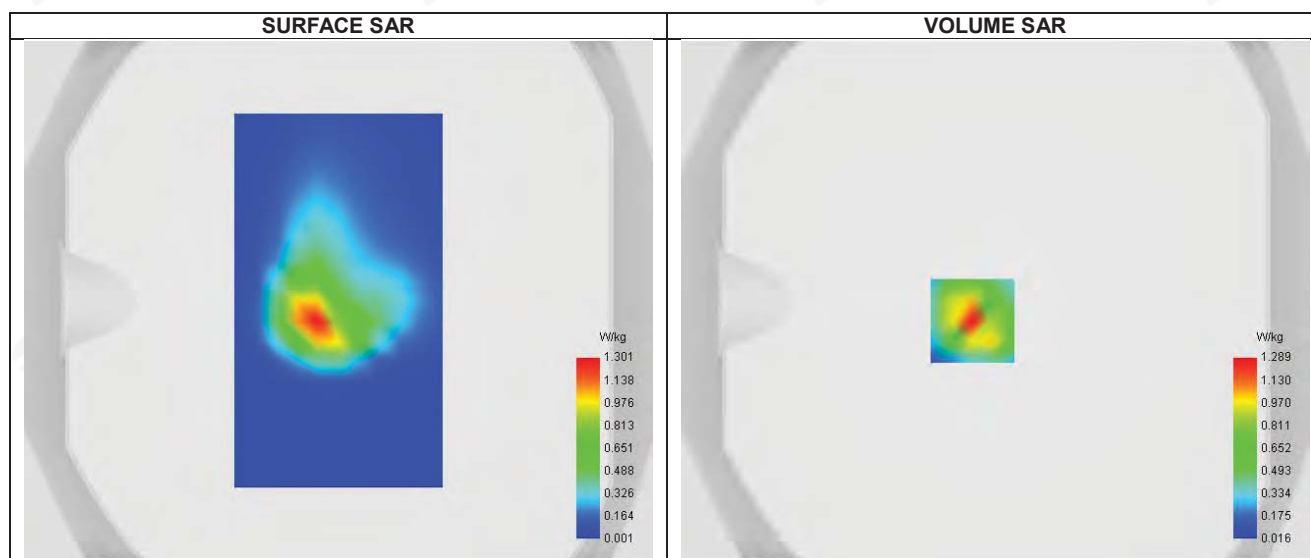


F. 3D Image



**Plot 5: DUT: Smart Controller; EUT Model: RC3000**

Test Date	2026-03-04
ConvF	1.54
Probe	SN 08/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm
Phantom	Body&Limb
Device Position	Front Side
Band	LTE Band 4 (RB 1)
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	1732.5
Relative permittivity (real part)	40.96
Conductivity (S/m)	1.35



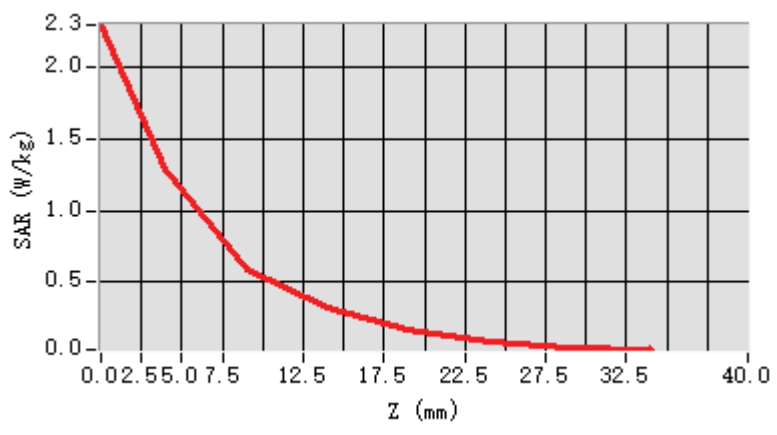
Maximum location: X=-9.00, Y=-8.00 ; SAR Peak: 2.26 W/kg

D. SAR 1g & 10g

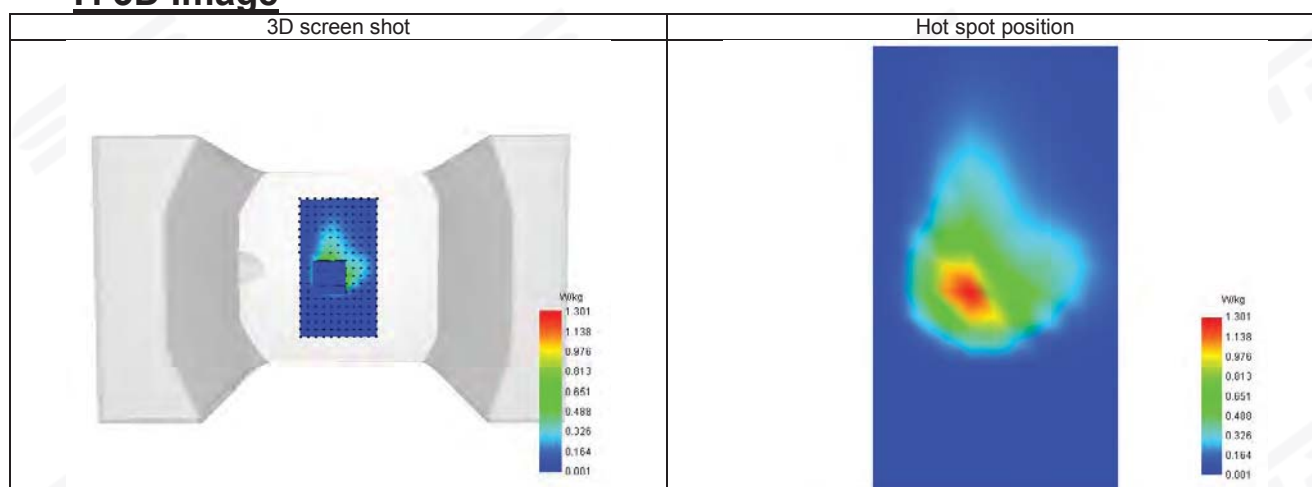
SAR 10g (W/Kg)	0.539
SAR 1g (W/Kg)	1.192
Horizontal validation criteria: minimum distance (mm)	11.313708
Vertical validation criteria: SAR ratio M2/M1 (%)	45.492708

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	2.298	1.289	0.586	0.319	0.161	0.081	0.041

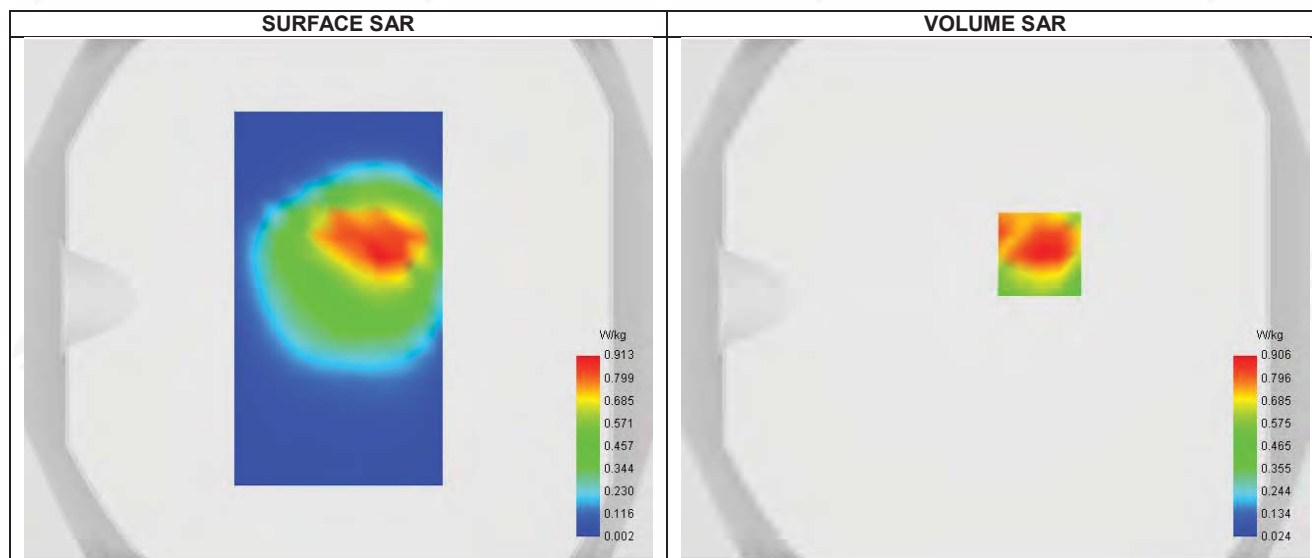


F. 3D Image



Plot 6: DUT: Smart Controller; EUT Model: RC3000

Test Date	2026-03-01
ConvF	1.49
Probe	SN 08/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm
Phantom	Body&Limb
Device Position	Front Side
Band	LTE Band 5 (RB 1)
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	829
Relative permittivity (real part)	41.30
Conductivity (S/m)	0.92



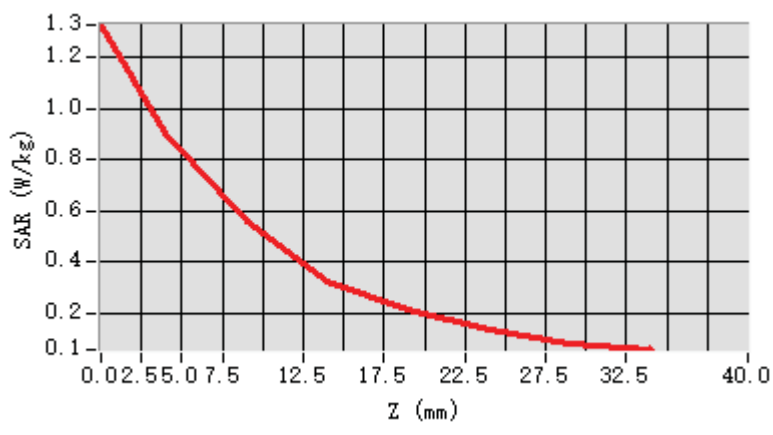
Maximum location: X=17.00, Y=17.00 ; SAR Peak: 1.48 W/kg

D. SAR 1g & 10g

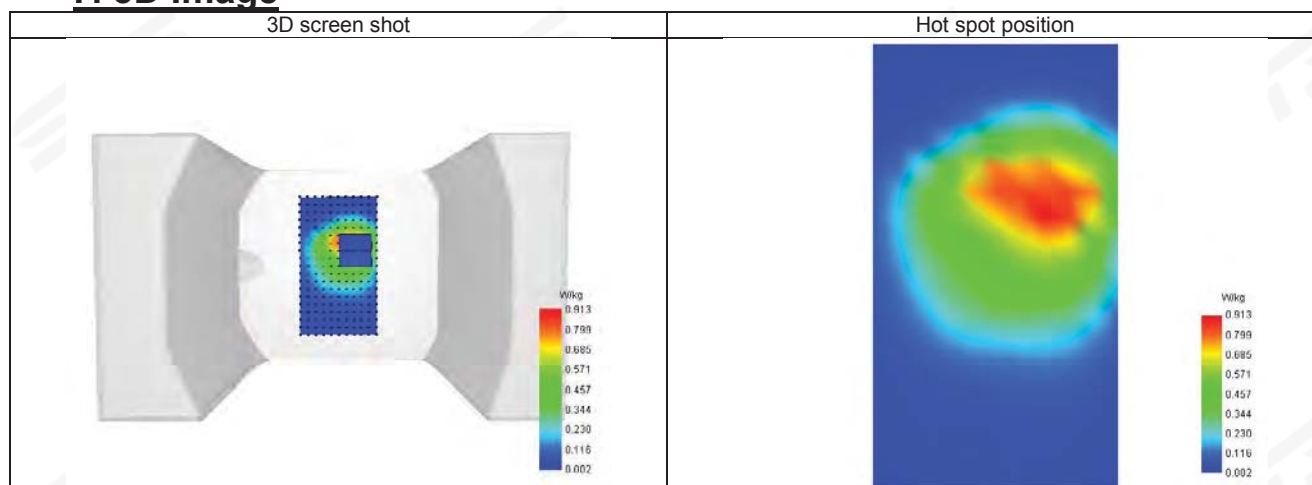
SAR 10g (W/Kg)	0.498
SAR 1g (W/Kg)	0.880
Horizontal validation criteria: minimum distance (mm)	22.627417
Vertical validation criteria: SAR ratio M2/M1 (%)	61.680473

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.329	0.906	0.559	0.322	0.211	0.130	0.080

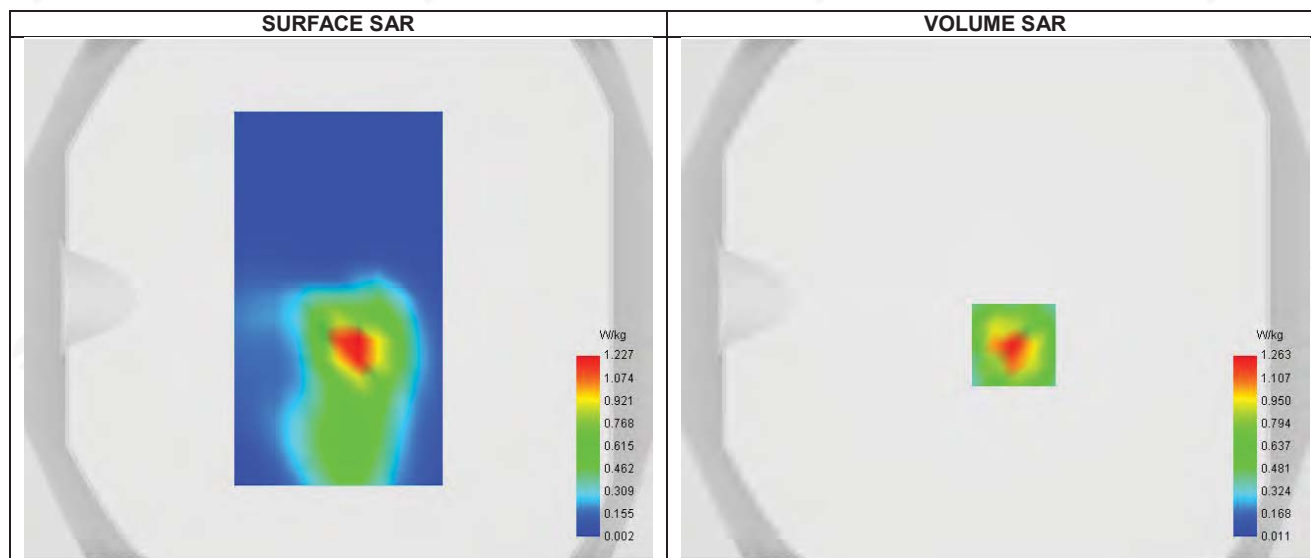


F. 3D Image



**Plot 7: DUT: Smart Controller; EUT Model: RC3000**

Test Date	2026-03-05
ConvF	1.70
Probe	SN 08/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm
Phantom	Body&Limb
Device Position	Front Side
Band	LTE Band 7 (RB 1)
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	2535
Relative permittivity (real part)	39.78
Conductivity (S/m)	1.89



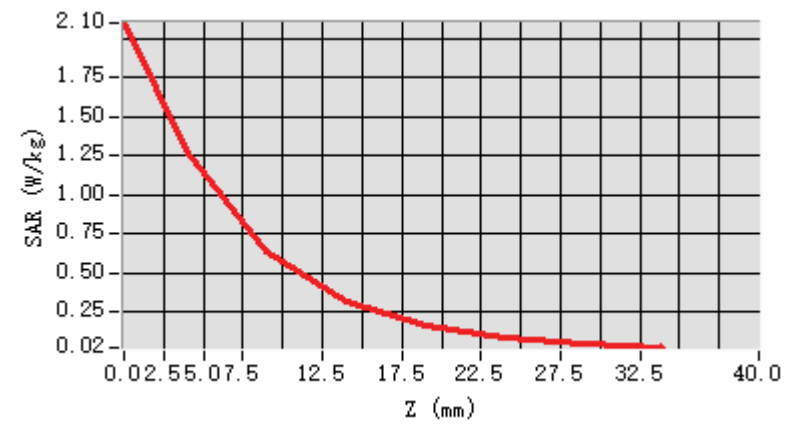
Maximum location: X=7.00, Y=-18.00 ; SAR Peak: 2.09 W/kg

D. SAR 1g & 10g

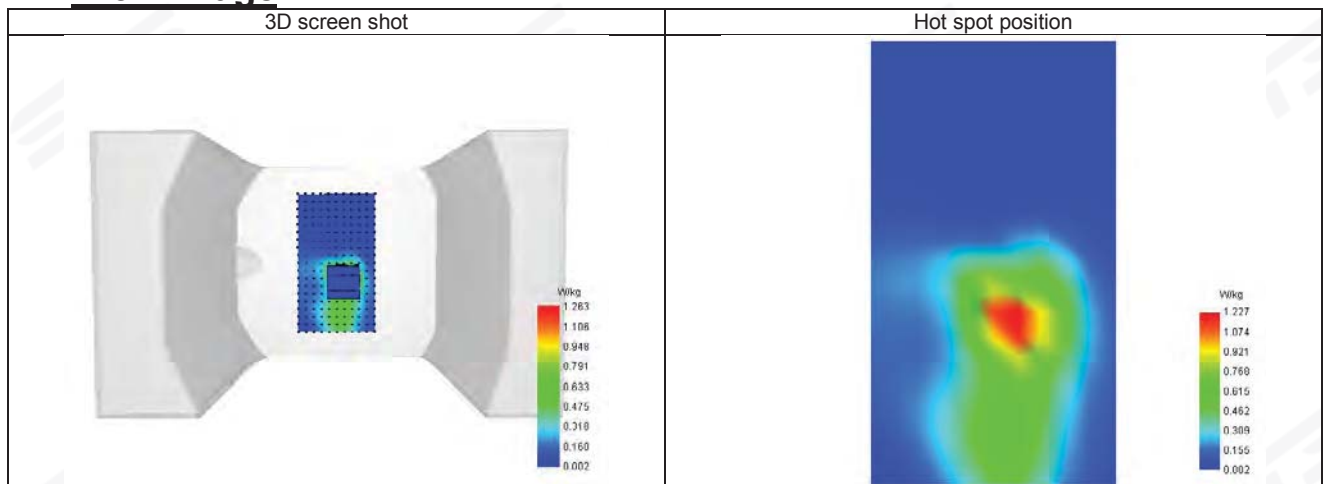
SAR 10g (W/Kg)	0.571
SAR 1g (W/Kg)	1.179
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	50.283259

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	2.098	1.263	0.635	0.318	0.161	0.084	0.044

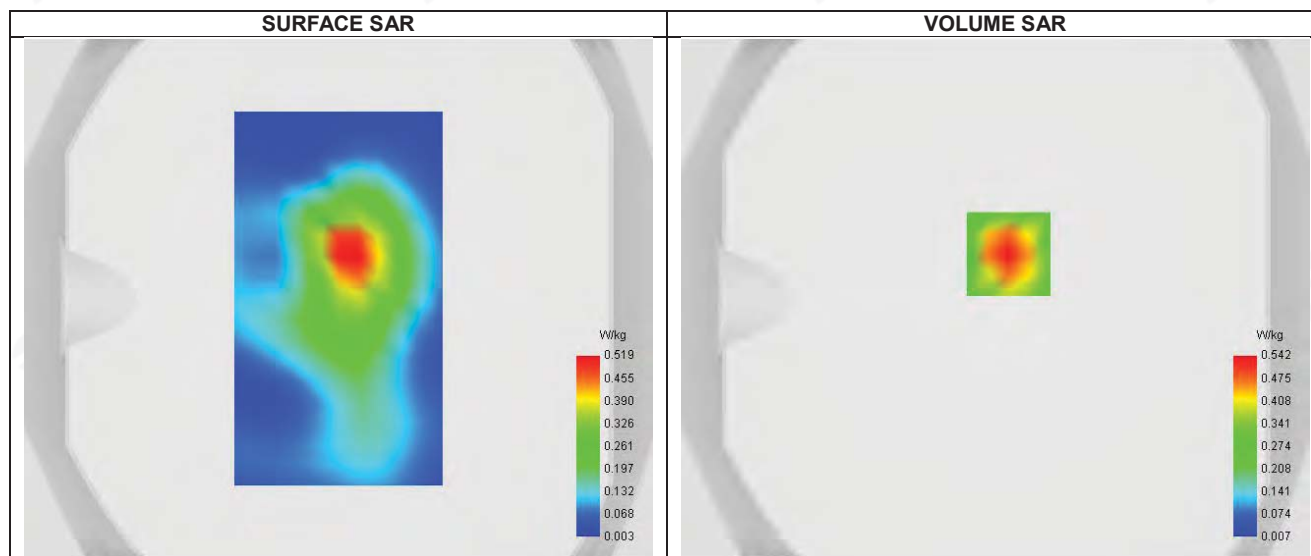


F. 3D Image



**Plot 8: DUT: Smart Controller; EUT Model: RC3000**

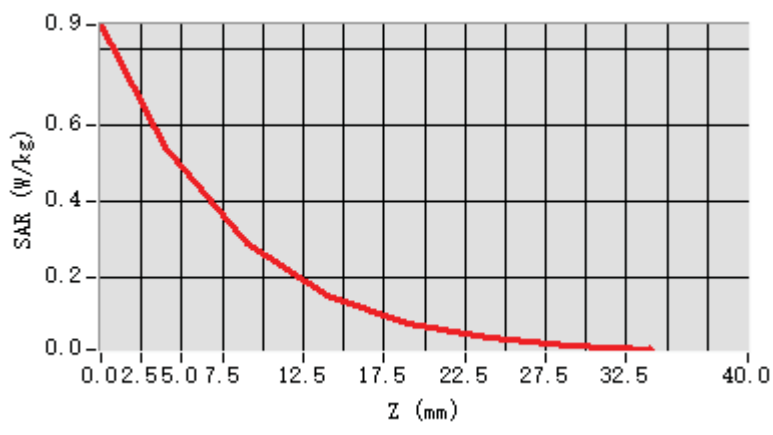
Test Date	2026-03-02
ConvF	1.51
Probe	SN 08/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm
Phantom	Body&Limb
Device Position	Front Side
Band	LTE Band 12 (RB 1)
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	707.5
Relative permittivity (real part)	42.71
Conductivity (S/m)	0.88

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

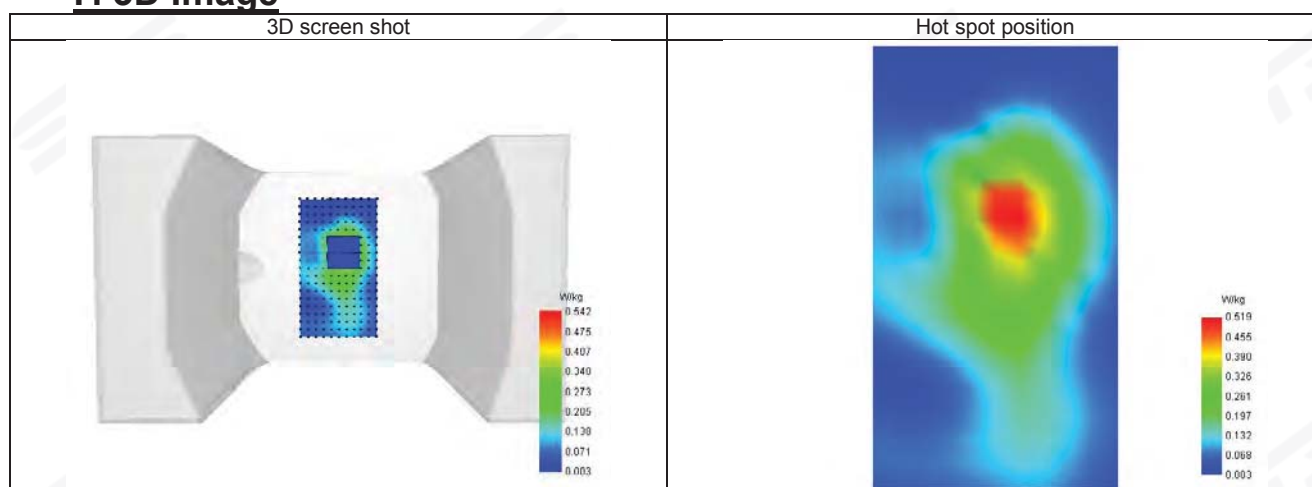
SAR 10g (W/Kg)	0.267
SAR 1g (W/Kg)	0.514
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	53.593345

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.865	0.542	0.291	0.155	0.083	0.044	0.024

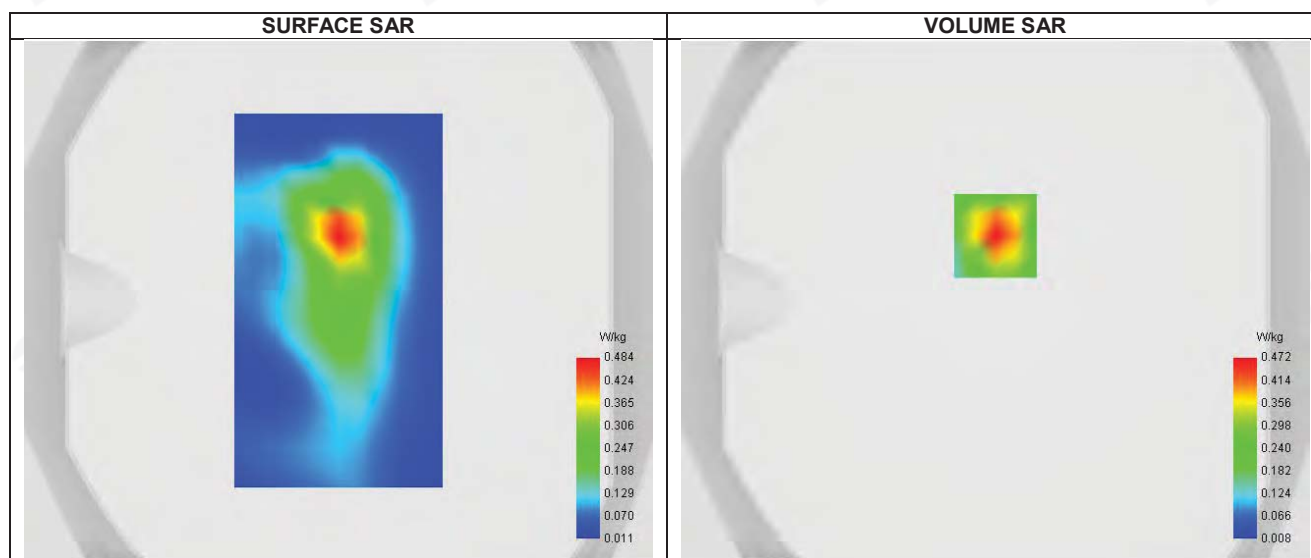


F. 3D Image



**Plot 9: DUT: Smart Controller; EUT Model: RC3000**

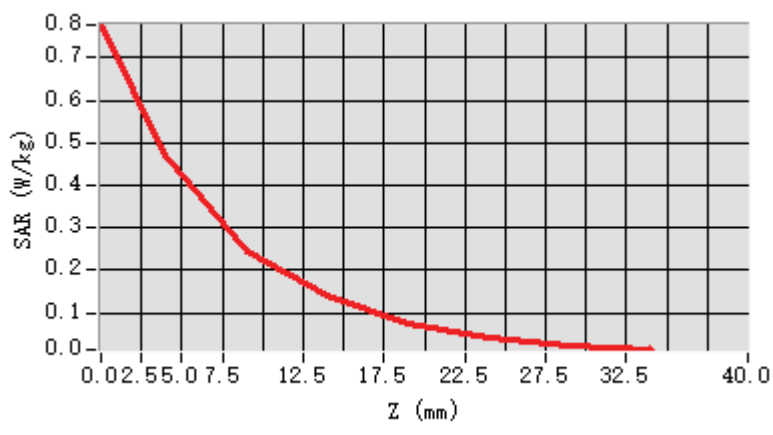
Test Date	2026-03-02
ConvF	1.51
Probe	SN 08/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm
Phantom	Body&Limb
Device Position	Front Side
Band	LTE Band 13 (RB 1)
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	782
Relative permittivity (real part)	41.77
Conductivity (S/m)	0.89

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

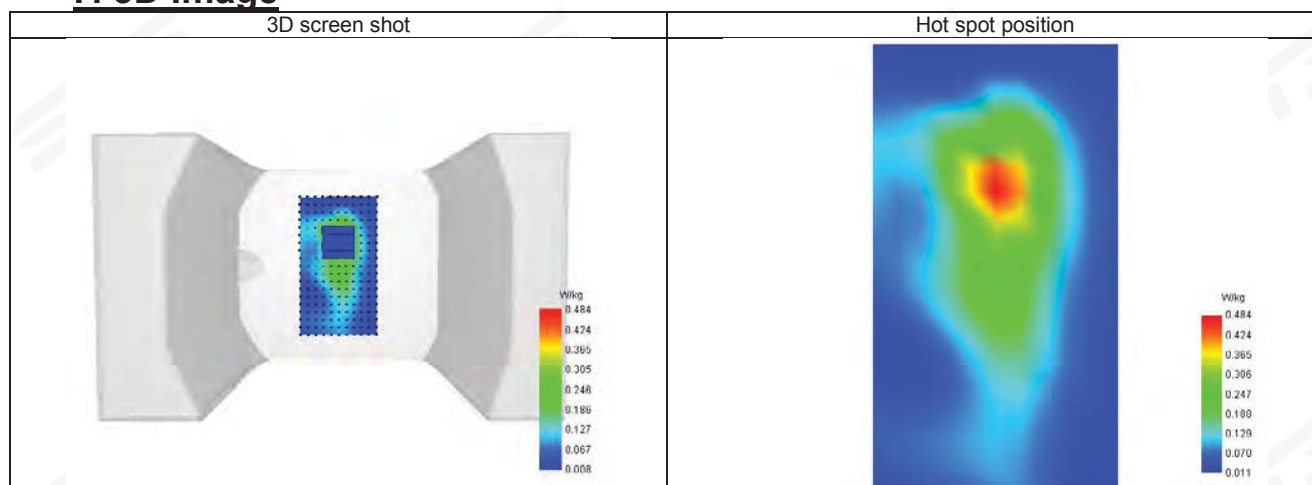
SAR 10g (W/Kg)	0.227
SAR 1g (W/Kg)	0.447
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	51.911635

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.777	0.472	0.245	0.139	0.076	0.041	0.023

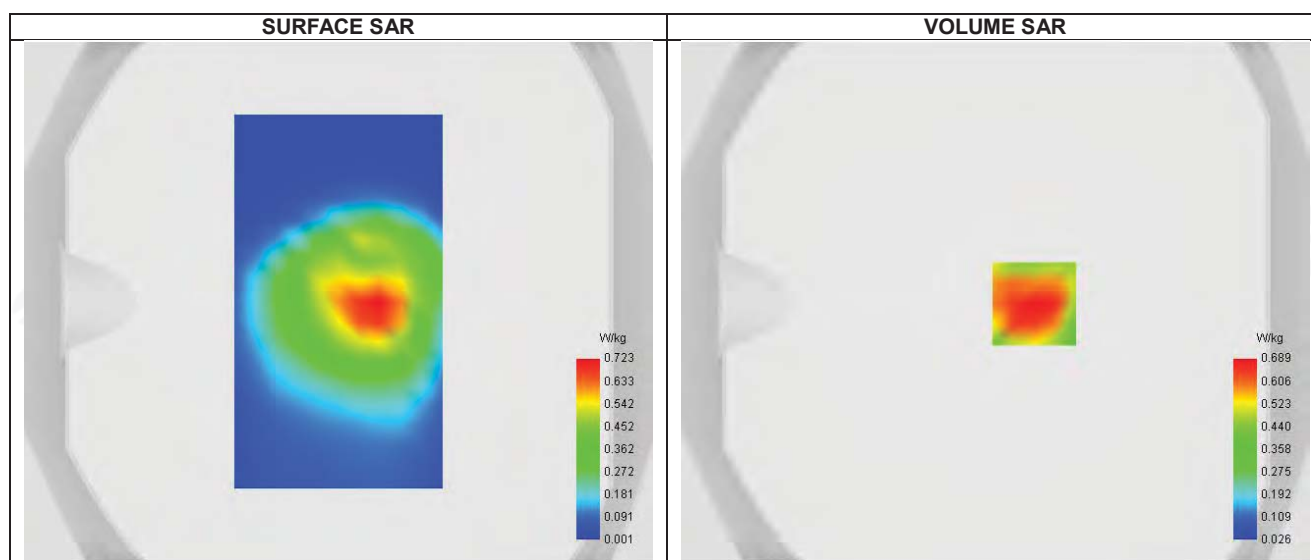


F. 3D Image



**Plot 10: DUT: Smart Controller; EUT Model: RC3000**

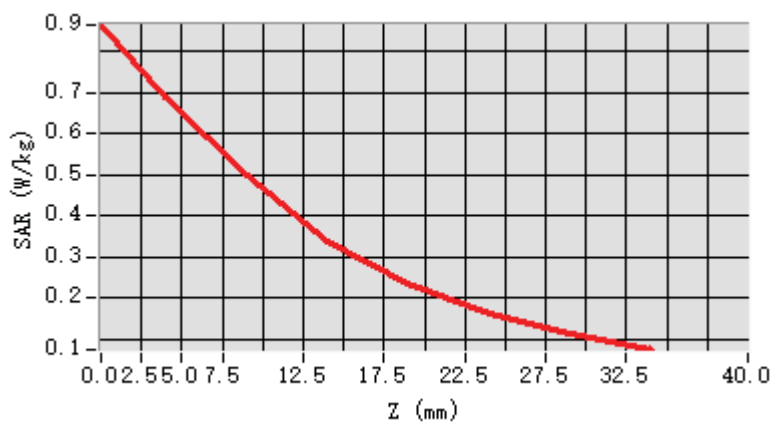
Test Date	2026-03-02
ConvF	1.51
Probe	SN 08/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm
Phantom	Body&Limb
Device Position	Front Side
Band	LTE Band 17 (RB 1)
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	710
Relative permittivity (real part)	42.44
Conductivity (S/m)	0.89

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

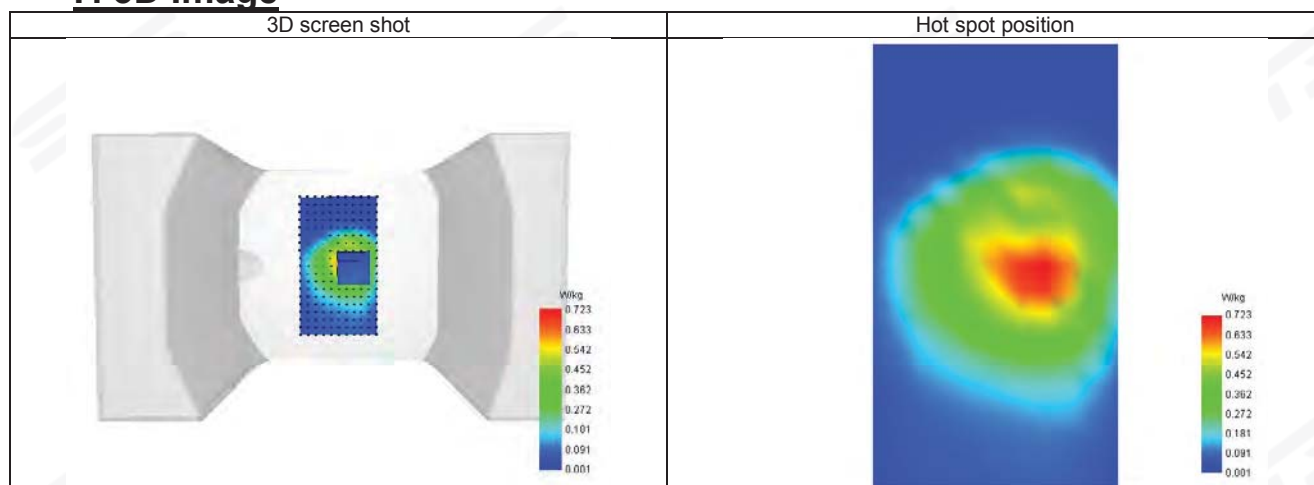
SAR 10g (W/Kg)	0.423
SAR 1g (W/Kg)	0.655
Horizontal validation criteria: minimum distance (mm)	22.627417
Vertical validation criteria: SAR ratio M2/M1 (%)	72.573206

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.864	0.689	0.500	0.337	0.233	0.162	0.112

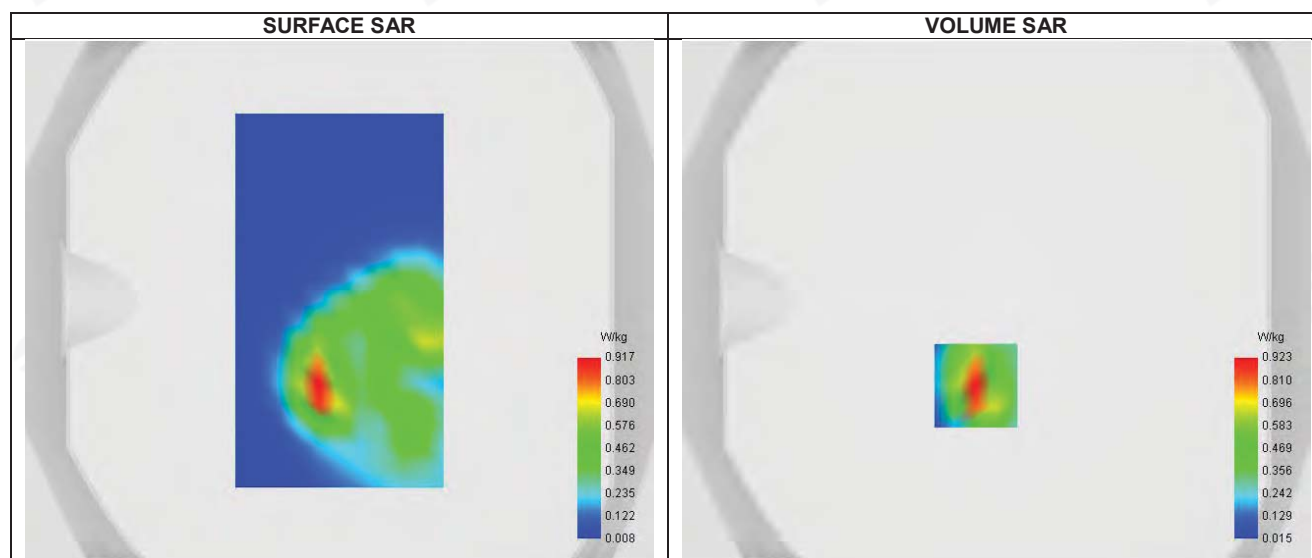


F. 3D Image



**Plot 11: DUT: Smart Controller; EUT Model: RC3000**

Test Date	2026-03-05
ConvF	1.70
Probe	SN 08/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm
Phantom	Body&Limb
Device Position	Front Side
Band	LTE Band 38 (RB 1)
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	2580
Relative permittivity (real part)	40.10
Conductivity (S/m)	1.93



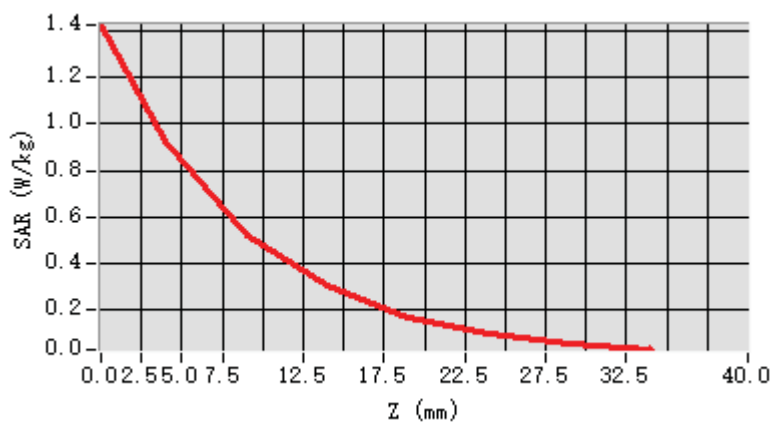
Maximum location: X=-8.00, Y=-33.00 ; SAR Peak: 1.46 W/kg

D. SAR 1g & 10g

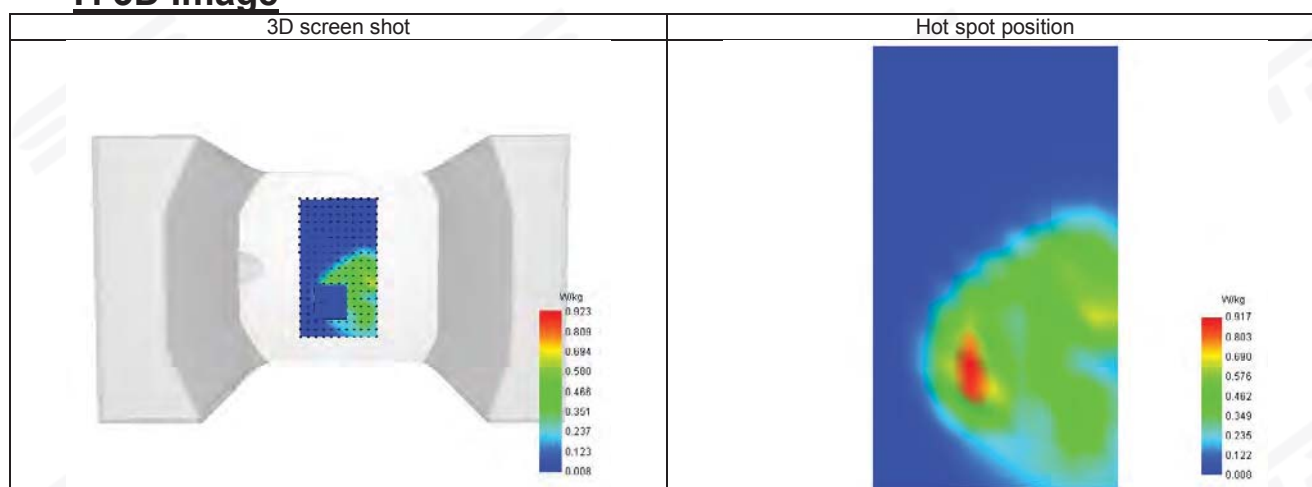
SAR 10g (W/Kg)	0.404
SAR 1g (W/Kg)	0.843
Horizontal validation criteria: minimum distance (mm)	11.313708
Vertical validation criteria: SAR ratio M2/M1 (%)	56.395696

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.425	0.923	0.521	0.305	0.170	0.097	0.055

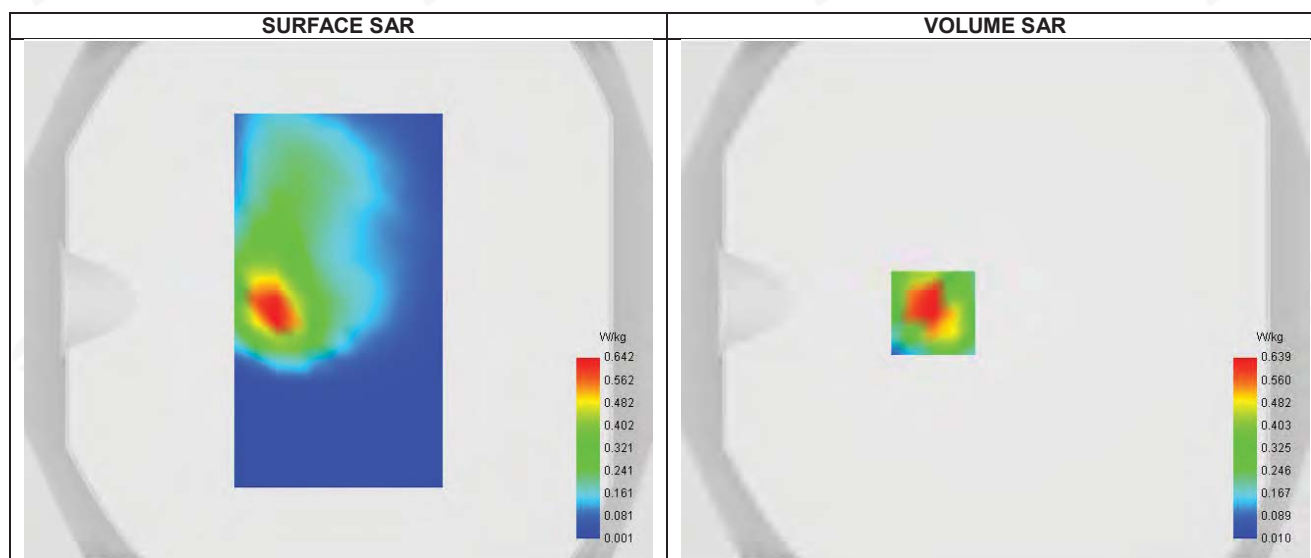


F. 3D Image



**Plot 12: DUT: Smart Controller; EUT Model: RC3000**

Test Date	2026-03-05
ConvF	1.70
Probe	SN 08/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm
Phantom	Body&Limb
Device Position	Front Side
Band	LTE Band 41 (RB 1)
Signal	LTE (Cr est factor: 1.0)
Frequency (MHz)	2555
Relative permittivity (real part)	39.40
Conductivity (S/m)	1.91



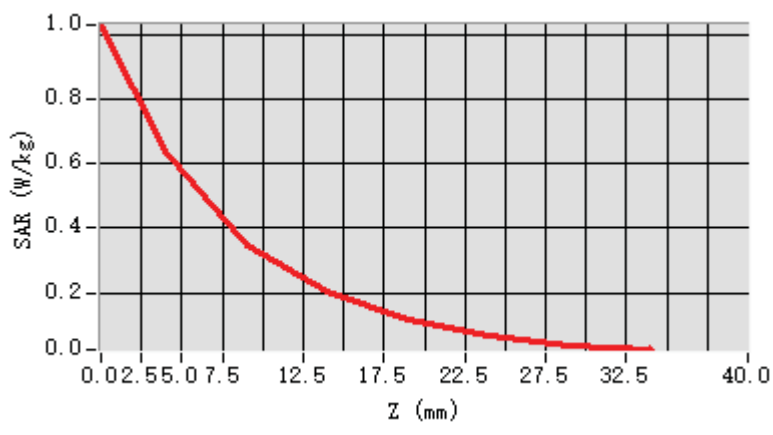
Maximum location: X=-24.00, Y=-5.00 ; SAR Peak: 1.08 W/kg

D. SAR 1g & 10g

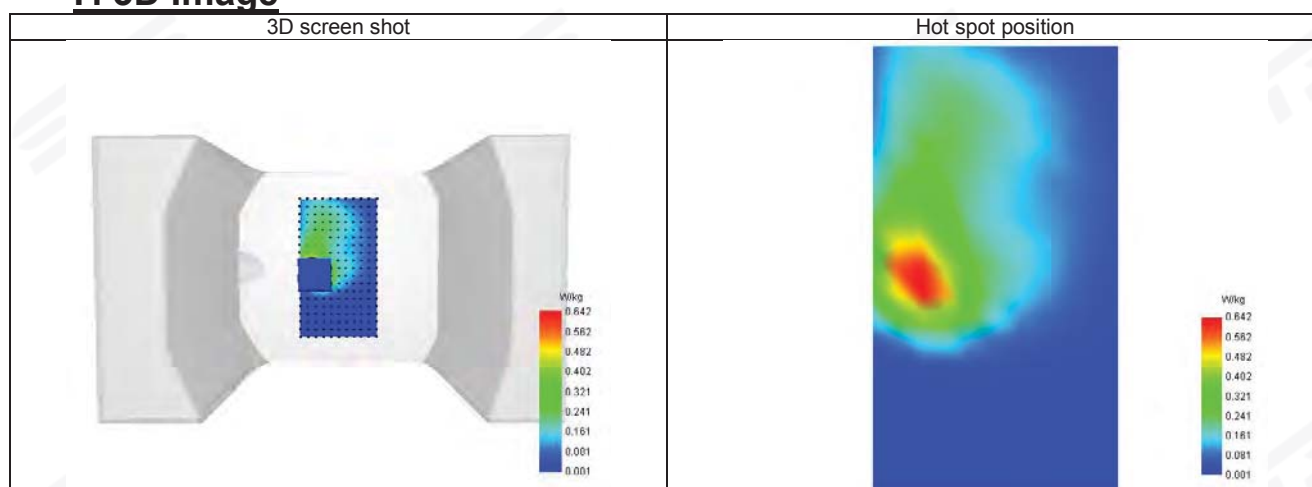
SAR 10g (W/Kg)	0.314
SAR 1g (W/Kg)	0.625
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	54.939856

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.029	0.639	0.344	0.203	0.115	0.065	0.037

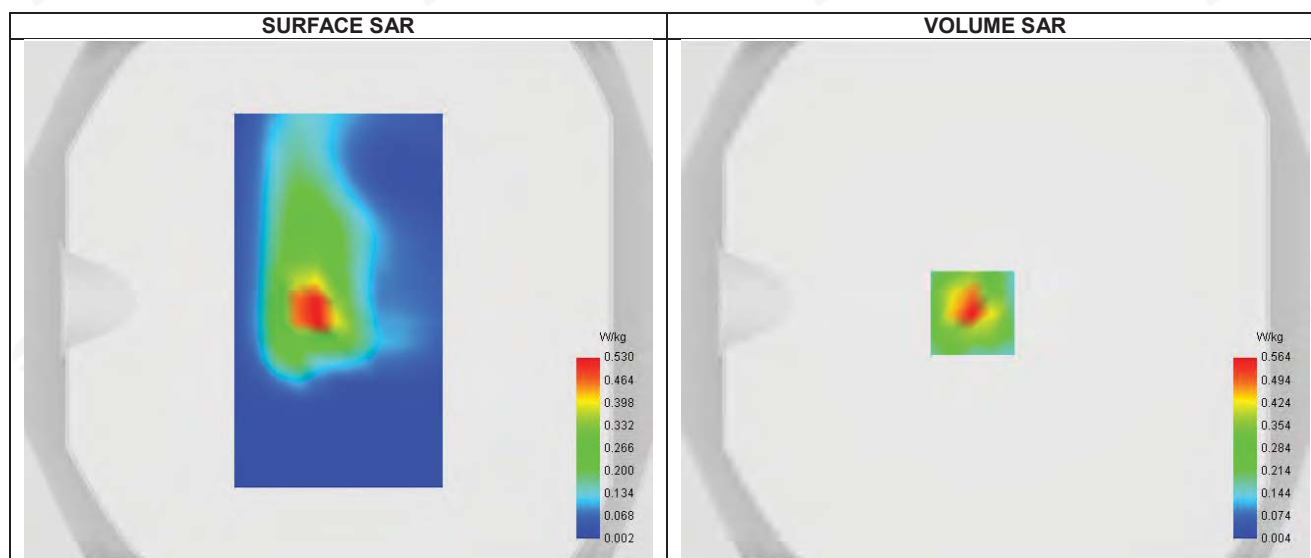


F. 3D Image



**Plot 13: DUT: Smart Controller; EUT Model: RC3000**

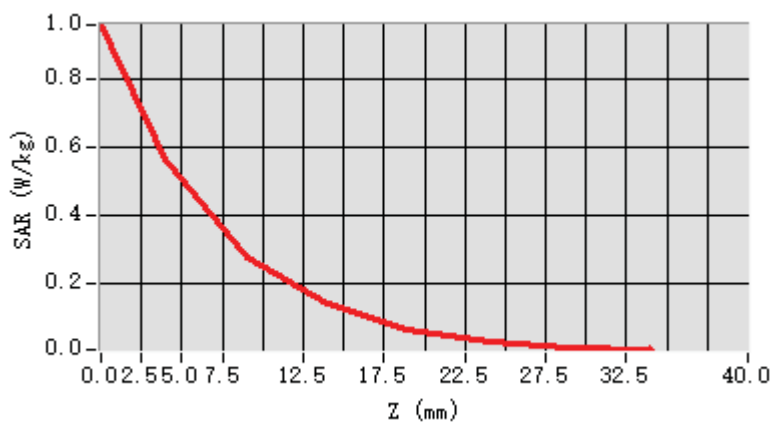
Test Date	2026-03-04
ConvF	1.54
Probe	SN 08/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm
Phantom	Body&Limb
Device Position	Front Side
Band	LTE Band 66 (RB 1)
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	1745
Relative permittivity (real part)	40.13
Conductivity (S/m)	1.37

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

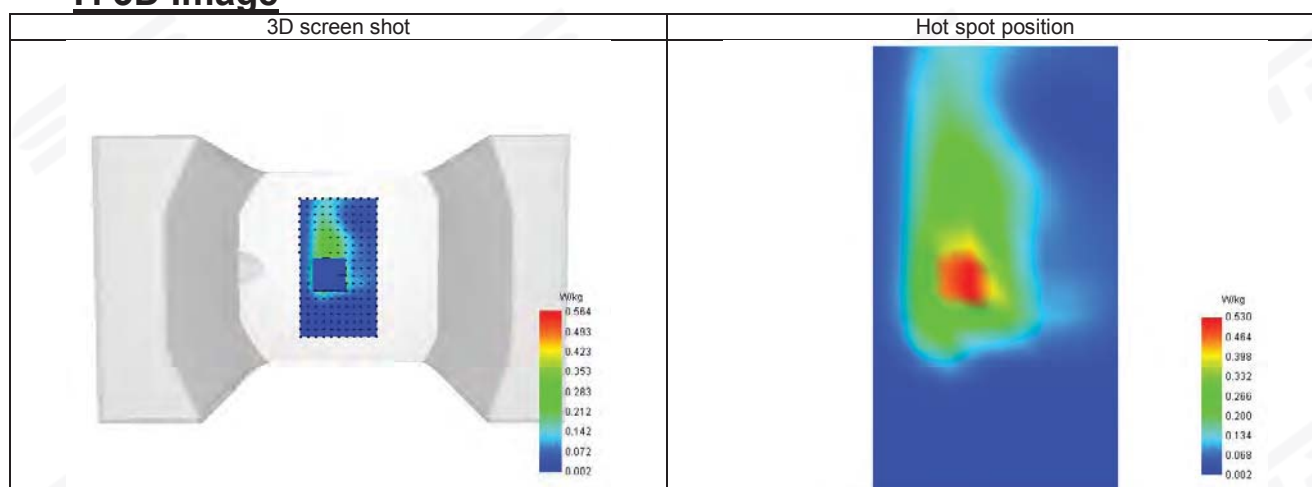
SAR 10g (W/Kg)	0.250
SAR 1g (W/Kg)	0.525
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	48.956288

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.955	0.564	0.276	0.141	0.071	0.036	0.018

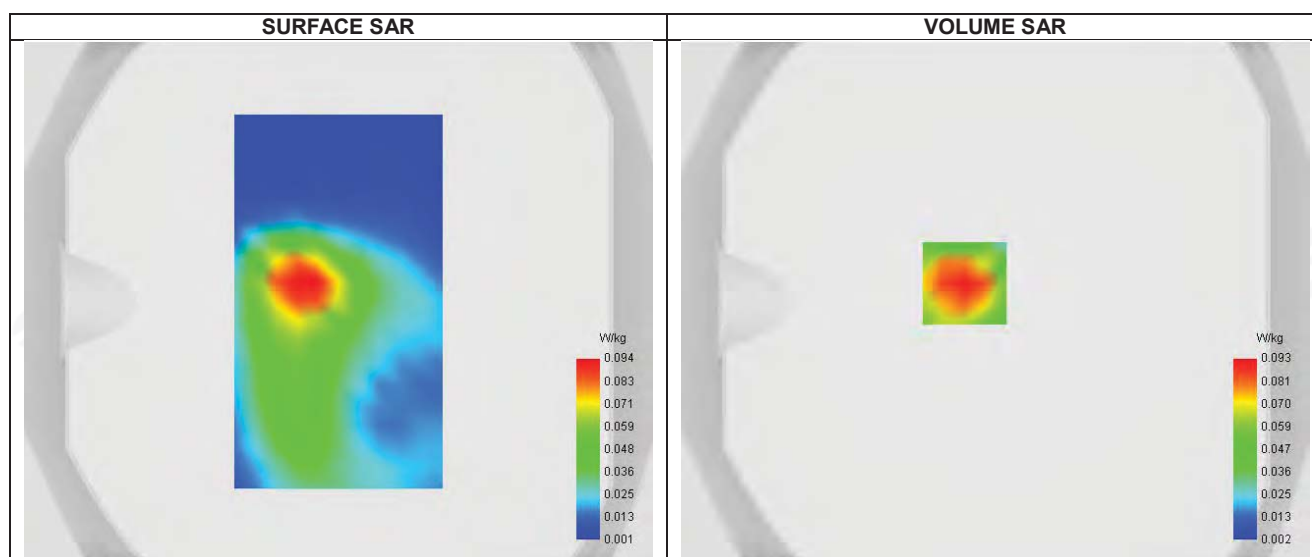


F. 3D Image



Plot 14: DUT: Smart Controller; EUT Model: RC3000

Test Date	2026-03-05
ConvF	1.82
Probe	SN 08/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm
Phantom	Body&Limb
Device Position	Front Side
Band	IEEE 802.11b ISM
Signal	IEEE802.b (Crest factor: 1.0)
Frequency (MHz)	2437
Relative permittivity (real part)	39.59
Conductivity (S/m)	1.79



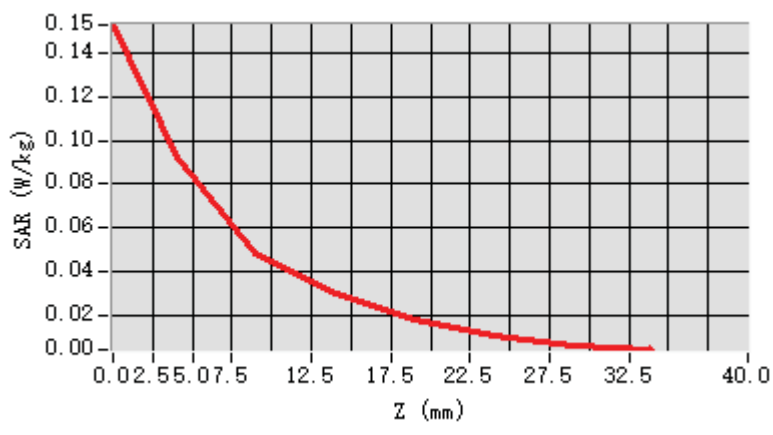
Maximum location: X=-12.00, Y=7.00 ; SAR Peak: 0.15 W/kg

D. SAR 1g & 10g

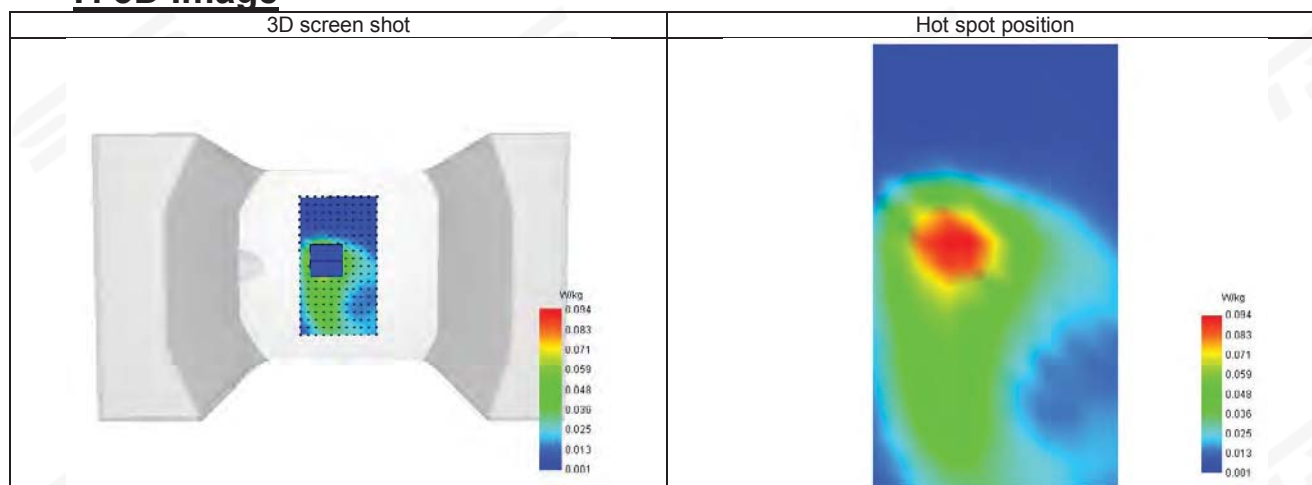
SAR 10g (W/Kg)	0.049
SAR 1g (W/Kg)	0.090
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	52.438243

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	0.093	0.049	0.030	0.017	0.010	0.006



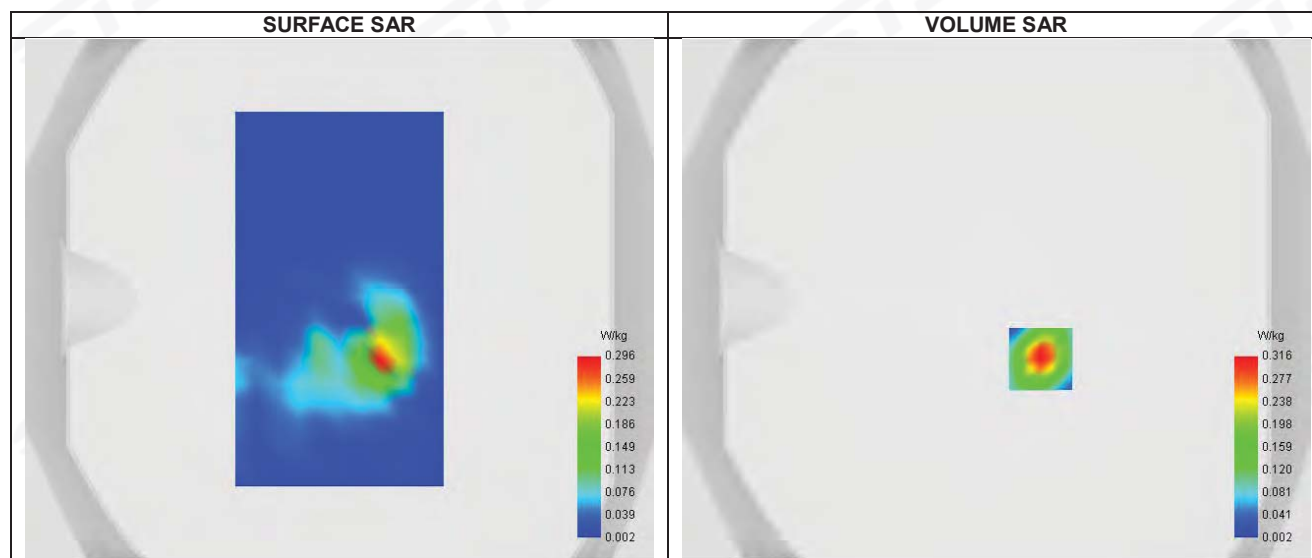
F. 3D Image





Plot 15: DUT: Smart Controller; EUT Model: RC3000

Test Date	2026-03-27
ConvF	1.37
Probe	SN 08/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	7x7x12, dx=4mm, dy=4mm, dz=2mm,
Phantom	Body&Limb
Device Position	Front Side
Band	IEEE 802.11a ISM
Signal	IEEE802.a (Crest factor: 1.0)
Frequency (MHz)	5200
Relative permittivity (real part)	36.24
Conductivity (S/m)	4.65



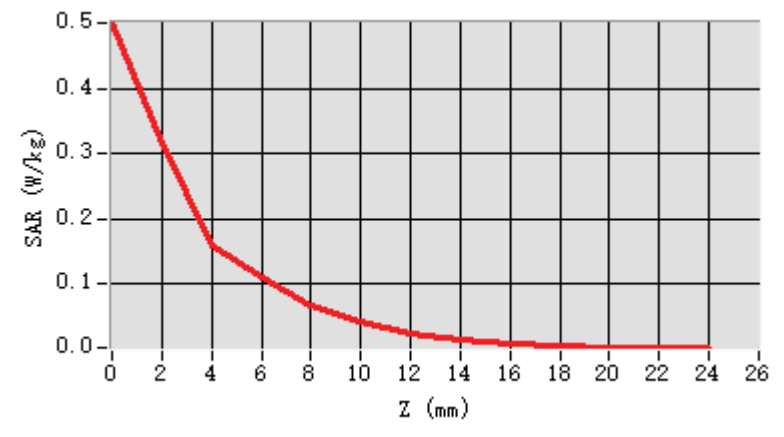
Maximum location: X=17.00, Y=-23.00 ; SAR Peak: 0.61 W/kg

D. SAR 1g & 10g

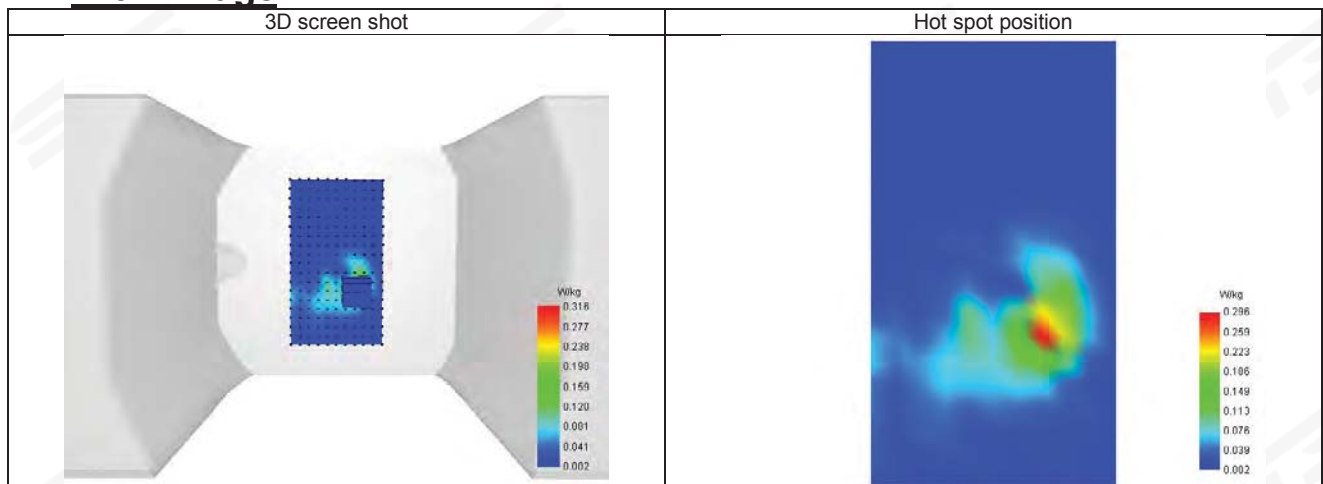
SAR 10g (W/Kg)	0.069
SAR 1g (W/Kg)	0.199
Horizontal validation criteria: minimum distance (mm)	8.944272
Vertical validation criteria: SAR ratio M2/M1 (%)	50.335596

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)	0.501	0.316	0.159	0.111	0.068	0.041	0.025	0.015	0.009	0.006	0.004	0.002

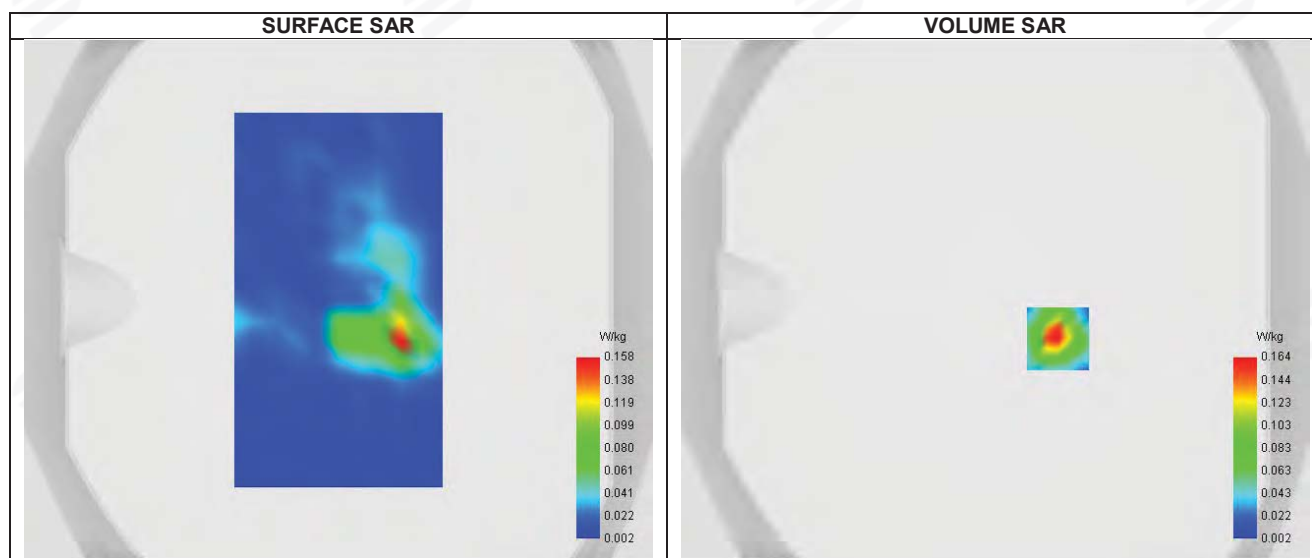


F. 3D Image



Plot 16: DUT: Smart Controller; EUT Model: RC3000

Test Date	2026-03-28
ConvF	1.26
Probe	SN 08/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	7x7x12, dx=4mm, dy=4mm, dz=2mm,
Phantom	Body&Limb
Device Position	Front Side
Band	IEEE 802.11a ISM
Signal	IEEE802.a (Crest factor: 1.0)
Frequency (MHz)	5290
Relative permittivity (real part)	36.29
Conductivity (S/m)	4.75



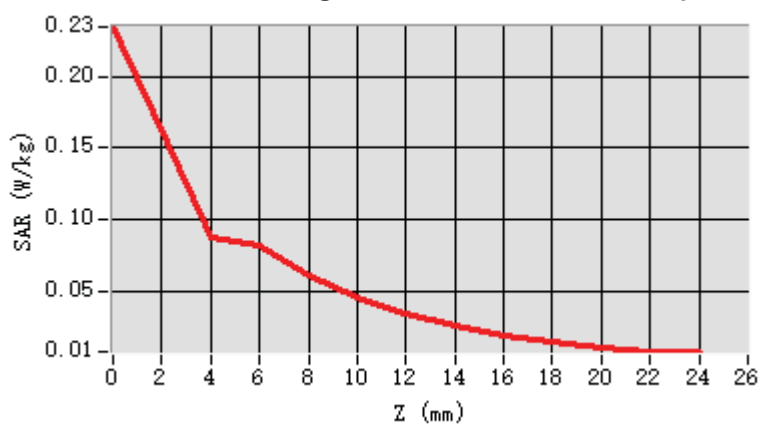
Maximum location: X=24.00, Y=-15.00 ; SAR Peak: 0.34 W/kg

D. SAR 1g & 10g

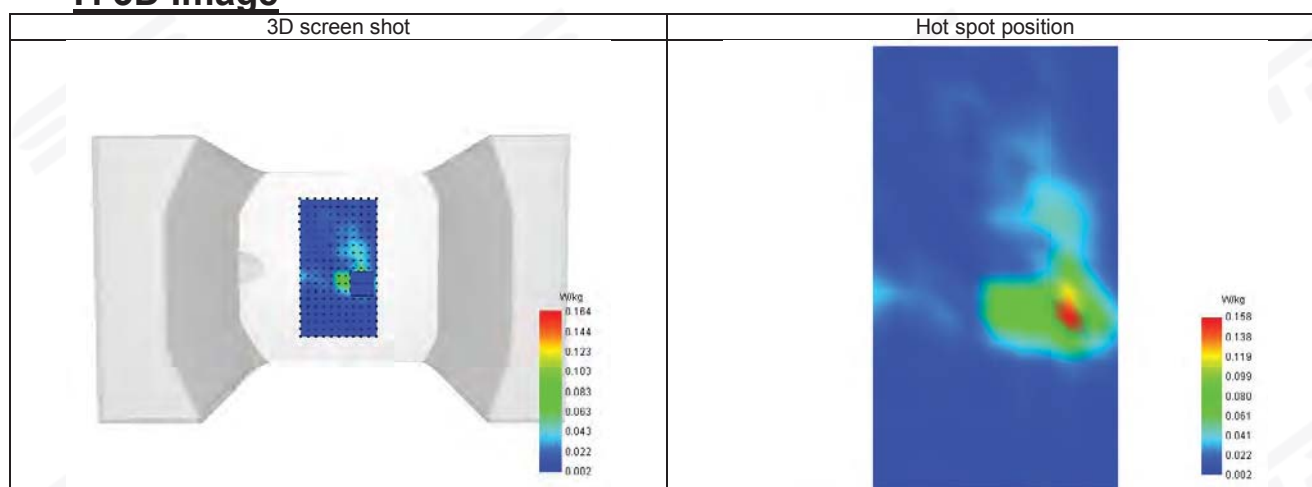
SAR 10g (W/Kg)	0.040
SAR 1g (W/Kg)	0.115
Horizontal validation criteria: minimum distance (mm)	8.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	53.628766

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)	0.235	0.164	0.088	0.082	0.061	0.045	0.034	0.025	0.019	0.014	0.010	0.008



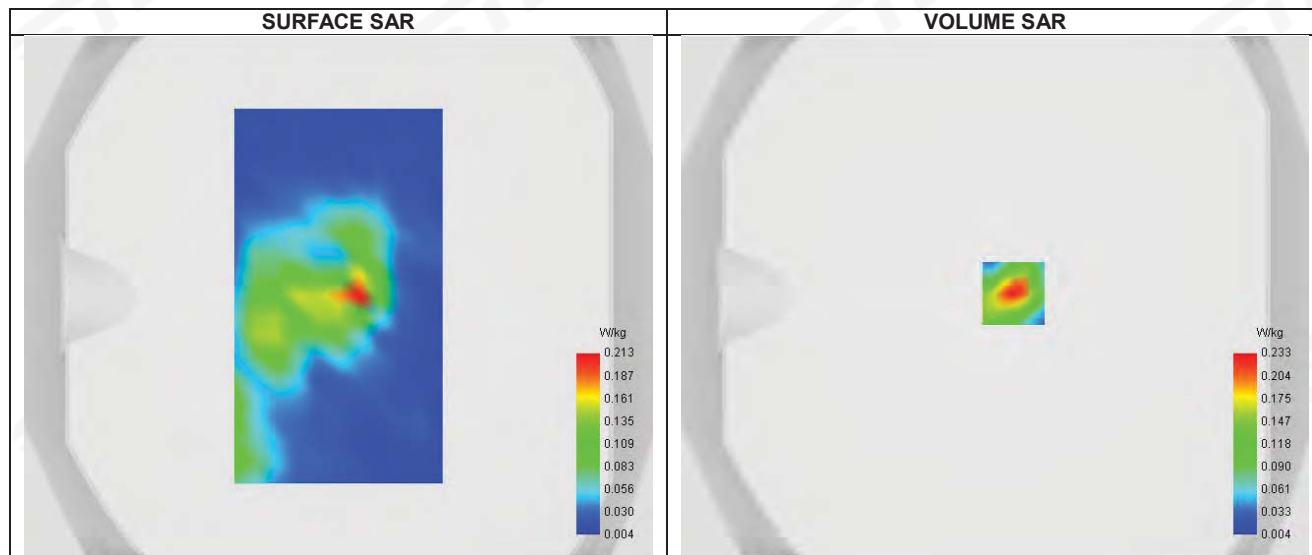
F. 3D Image





Plot 17: DUT: Smart Controller; EUT Model: RC3000

Test Date	2026-03-28
ConvF	1.21
Probe	SN 08/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	7x7x12, dx=4mm, dy=4mm, dz=2mm,
Phantom	Body&Limb
Device Position	Front Side
Band	IEEE 802.11a ISM
Signal	IEEE802.a (Crest factor: 1.0)
Frequency (MHz)	5600
Relative permittivity (real part)	36.08
Conductivity (S/m)	5.07



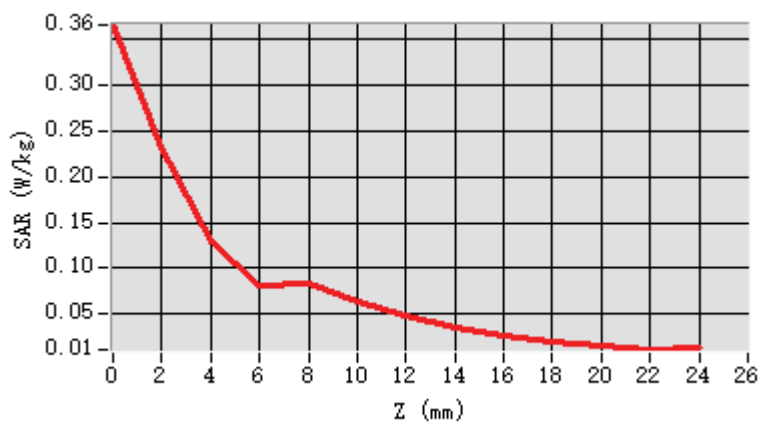
Maximum location: X=7.00, Y=1.00 ; SAR Peak: 0.45 W/kg

D. SAR 1g & 10g

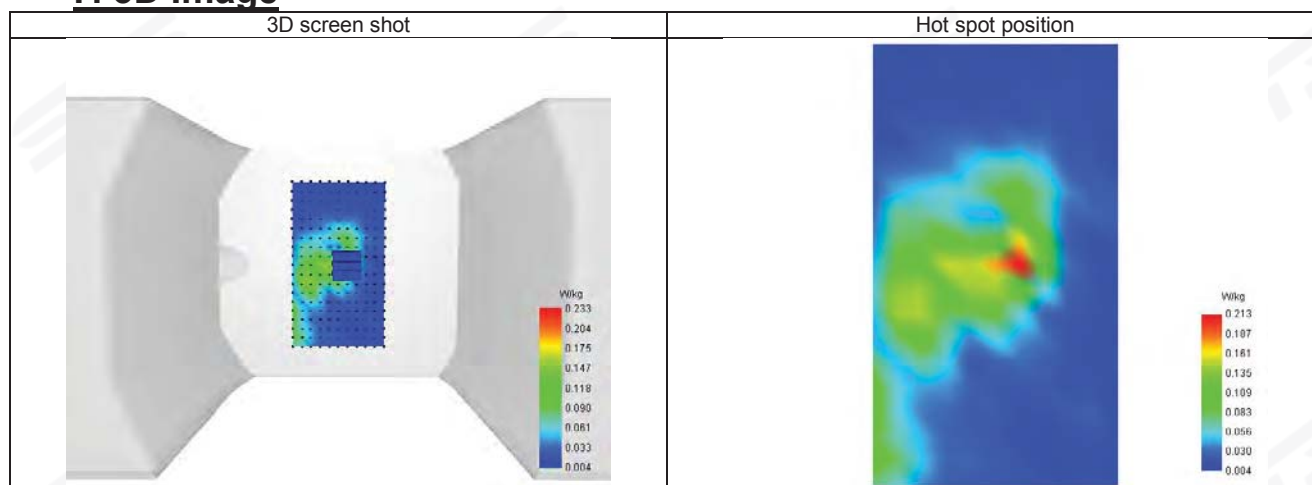
SAR 10g (W/Kg)	0.063
SAR 1g (W/Kg)	0.159
Horizontal validation criteria: minimum distance (mm)	8.944272
Vertical validation criteria: SAR ratio M2/M1 (%)	55.700528

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)	0.365	0.233	0.130	0.082	0.085	0.064	0.048	0.036	0.027	0.021	0.015	0.012



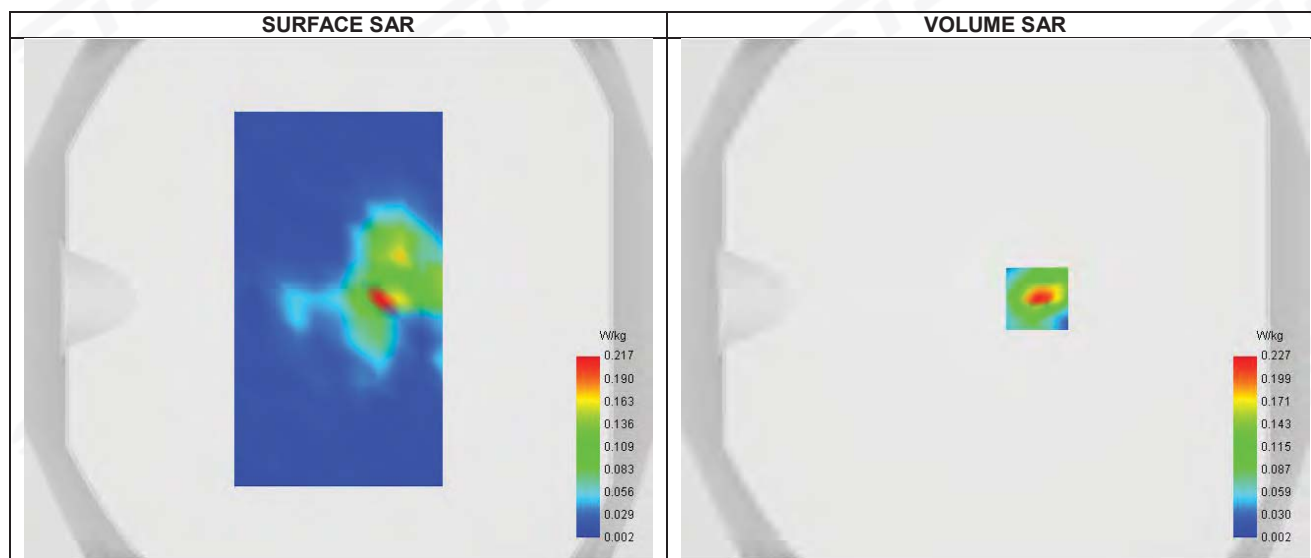
F. 3D Image





Plot 18: DUT: Smart Controller; EUT Model: RC3000

Test Date	2026-03-27
ConvF	1.32
Probe	SN 08/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	7x7x12, dx=4mm, dy=4mm, dz=2mm,
Phantom	Body&Limb
Device Position	Front Side
Band	IEEE 802.11a ISM
Signal	IEEE802.a (Crest factor: 1.0)
Frequency (MHz)	5785
Relative permittivity (real part)	35.93
Conductivity (S/m)	5.25



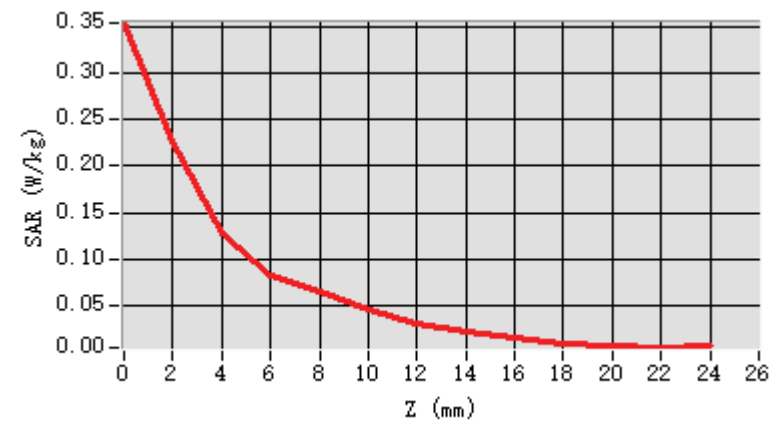
Maximum location: X=16.00, Y=0.00 ; SAR Peak: 0.44 W/kg

D. SAR 1g & 10g

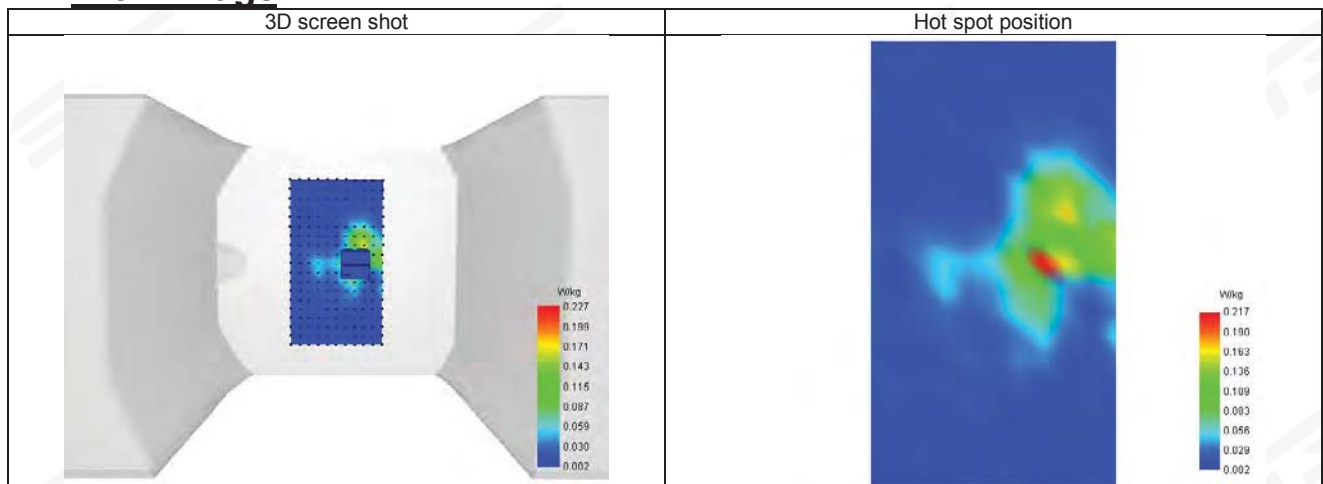
SAR 10g (W/Kg)	0.053
SAR 1g (W/Kg)	0.142
Horizontal validation criteria: minimum distance (mm)	8.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	55.617456

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)	0.354	0.227	0.127	0.082	0.066	0.045	0.031	0.021	0.014	0.010	0.007	0.005



F. 3D Image





Appendix C. Probe Calibration and Dipole Calibration Report

Refer the appendix Calibration Report.

※※※※END OF THE REPORT※※※※