SAR Test Report

Report No.: STS2605200H01

Issued for

TPV Audio and Visual Technology (Shenzhen) Co., Ltd.

4201, Block A, Building 2,Shenzhen Bay Innovation and Technology Park,Nanshan District, Shenzhen Guangdong 518100 China

Product Name:	Smart Phone
Brand Name:	PHILIPS
Model Name:	Philips S8310
Series Model(s):	Philips S8300, Philips S8308, Philips S8320, Philips S8325, Philips S8306, Philips S7106, Philips S8322, Philips S8326, Philips S8327, Philips S8328, Philips S8329, Philips S706P
FCC ID:	2BMMFCTS8310
Test Standard:	IEEE Std C95.1™-2019 FCC 47 CFR Part 2§2.1093/IEEE Std. 1528:2013
Max. Report SAR (1g)	Head: 0.565 W/kg Body: 0.712 W/kg

TEST REPORT CERTIFICATION

Applicant's name ..... :	TPV Audio and Visual Technology (Shenzhen) Co., Ltd.
Address ..... :	4201, Block A, Building 2,Shenzhen Bay Innovation and Technology Park,Nanshan District, Shenzhen Guangdong 518100 China
Manufacturer's Name ..... :	TPV Audio and Visual Technology (Shenzhen) Co., Ltd.
Address ..... :	4201, Block A, Building 2,Shenzhen Bay Innovation and Technology Park,Nanshan District, Shenzhen Guangdong 518100 China

Product description

Product name ..... :	Smart Phone
Brand name ..... :	PHILIPS
Model name ..... :	Philips S8310
Series Model..... :	Philips S8300, Philips S8308, Philips S8320, Philips S8325, Philips S8306, Philips S7106, Philips S8322, Philips S8326, Philips S8327, Philips S8328, Philips S8329, Philips S706P
Standards..... :	ANSI/IEEE Std. C95.1 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.

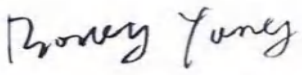
Date of Test..... :	
Date (s) of performance of tests..... :	11 May 2026 ~ 12 June 2026
Date of Issue..... :	13 June 2026
Test Result..... :	**Pass**

Testing Engineer : Xin Liu

(Xin.Liu)

Technical Manager : 

(Eric Zhou)

Authorized Signatory : 

(Bovey Yang)

Table of Contents

Revision History

Rev.	Issue Date	Report No.	Effect Page	Contents
00	13 June 2026	STS2605200H01	ALL	Initial Issue

1. General Information

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

1.1 EUT Description

Product Name	Smart Phone
Brand Name	PHILIPS
Model Name	Philips S8310
Series Model	Philips S8300, Philips S8308, Philips S8320, Philips S8325, Philips S8306, Philips S7106, Philips S8322, Philips S8326, Philips S8327, Philips S8328, Philips S8329, Philips S706P
Model Difference	The PCB board, circuit, structure and internal of these models are the same, Only model number and colour is different for these model. So the tests were performed on model Philips S8310 and the test results for the main test model can cover the listed models.
Sample number	260402003-1
Battery	Input: 5.0V⎓ 2.0A Battery: 3.87V 4900 mAh 18.963Wh
Device Category	Portable
Product stage	Production unit
RF Exposure Environment	General Population / Uncontrolled
Hardware Version	G2510T-UF-V1.1
Software Version	Philips_S8310_2541_V1.0A_MX
Frequency Range	GSM 850: 824 MHz ~ 849 MHz PCS1900: 1850 MHz ~ 1910 MHz WCDMA Band II: 1850 MHz ~ 1910 MHz WCDMA Band IV:1710 MHz ~ 1755 MHz WCDMA Band V: 824 MHz ~ 849 MHz LTE Band 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 17: 704 MHz ~ 716 MHz LTE Band 26: 814 MHz ~ 824 MHz / 824 MHz ~ 849 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: 5725 ~ 5850 MHz Bluetooth: 2402 MHz to 2480 MHz

	Band	Mode	Head (W/kg)	Body Worn and Hotspot(W/kg)
Max. Reported SAR(1g): (Limit:1.6W/kg) Test distance: Head:0mm Body:10mm	PCE	GSM 850	0.036	0.272
	PCE	GSM 1900	0.214	0.115
	PCE	WCDMA Band II	0.230	0.186
	PCE	WCDMA Band V	0.026	0.122
	PCE	WCDMA Band IV	0.085	0.157
	PCE	LTE Band 2	0.214	0.455
	PCE	LTE Band 4	0.101	0.473
	PCE	LTE Band 5	0.213	0.189
	PCE	LTE Band 7	0.552	0.712
	PCE	LTE Band 12	0.209	0.169
	PCE	LTE Band 17	0.192	0.175
	PCE	LTE Band 26	0.059	0.178
	PCE	LTE Band 38	0.565	0.604
	PCE	LTE Band 41	0.305	0.602
	PCE	LTE Band 66	0.100	0.656
	DTS	2.4G WLAN	0.100	0.299
	DSS	BT	0.104	0.021
	NII	5.2G WLAN	0.172	0.096
	NII	5.8G WLAN	0.176	0.085
1-g Sum SAR			0.741	1.011
FCC Equipment Class	Licensed Portable Transmitter Held to Ear (PCE) Part 15 Spread Spectrum Transmitter (DSS) Digital Transmission System (DTS) Unlicensed National Information Infrastructure TX(NII)			
Operating Mode:	GSM: GSM Voice; GPRS/EGPRS Class 12 WCDMA: RMC, HSDPA, HSUPA Release 6 LTE: QPSK, 16QAM 2.4G WLAN : 802.11b(DSSS):CCK,DQPSK,DBPSK 802.11g(OFDM):BPSK,QPSK,16-QAM,64-QAM 802.11n(OFDM):BPSK,QPSK,16-QAM,64-QAM 5G WLAN: 802.11a(OFDM):BPSK,QPSK,16-QAM,64-QAM 802.11n(OFDM):BPSK,QPSK,16-QAM,64-QAM			

	802.11ac(OFDM):BPSK,QPSK,16-QAM,64-QAM,256-QAM Bluetooth: GFSK +π/4DQPSK+8DPSK BLE: GFSK
Antenna Specification:	GSM/WCDMA/LTE: FPC Antenna Bluetooth: FPC Antenna WLAN: FPC Antenna
SIM Card	Support dual-SIM, dual standby, the multiple SIM card with two lines cannot transmitting at the same time
Hotspot Mode	Support
DTM Mode	Not Support

Note:

1. The dual SIM card mobile has 2 SIM slots and supports dual SIM dual standby. The WWAN radio transmission will be enabled by either one SIM at a time (Single active)
2. After pre-scan two SIM cards power, we found test result of the SIM1 was the worse, so we chose SIM1 card to perform all tests.
3. The EUT battery must be fully charged and checked periodically during the test to ascertain uniform power
4. The SAR values for DSS are estimated.

1.2 Test Environment

Ambient conditions in the SAR laboratory:

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

1.3 Test Factory

ShenZhen STS Test Services Co.,Ltd.

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

FCC test Firm Registration No.: 625569

IC Registration No.: 12108A

A2LA Certificate No.: 4338.01

2. Test Standards and Limits

No.	Identity	Document Title
1	47 CFR Part 2	Frequency Allocations and Radio Treaty Matters; General Rules and Regulations
2	IEEE Std C95.1, 2019	IEEE Standard for Safety Levels with Respect to Human Exposure to Electric,Magnetic, and Electromagnetic Fields,0 Hz to 300 GHz. It specifies the maximum exposure limit of 1.6 W/kg as averaged over any 1 gram of tissue for portable devices being used within 20 cm of the user in the uncontrolled environment.
3	IEEE Std. 1528-2013	Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques
4	FCC KDB 447498 D01 v06	RF Exposure Procedures and Equipment Authorization Policies for Mobile and Portable Devices
5	FCC KDB 865664 D01 v01r04	SAR Measurement 100 MHz to 6 GHz
6	FCC KDB 865664 D02 v01r02	RF Exposure Reporting
7	FCC KDB 941225 D01 v03r01	SAR Measurement Procedures for 3G Devices
8	FCC KDB 941225 D05 v02r05	SAR for LTE Devices
9	FCC KDB 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

(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

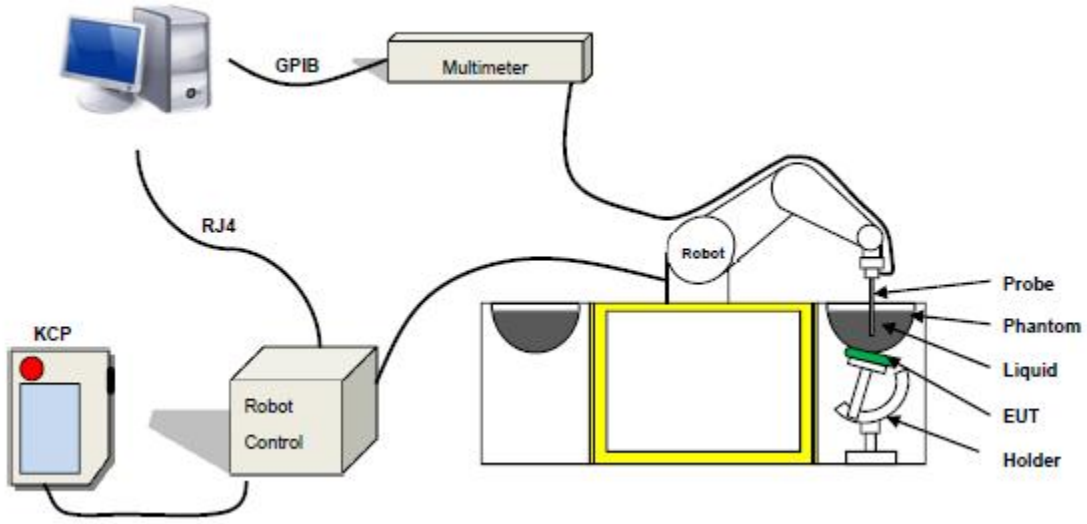
$$SAR = \frac{\sigma E^2}{\rho}$$

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

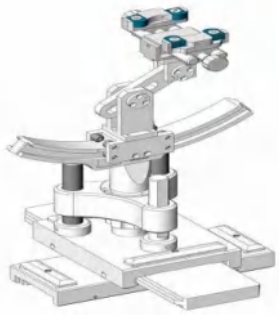
3.2.2 Phantom

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. 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 of the dielectric parameters are within the tolerances of the specified target values

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

The head tissue dielectric parameters recommended by the IEEE 62209-1528 have been incorporated in the following table.

Frequency	εr	σ 10g S/m
300	45.3	0.87
450	43.5	0.87
750	41.9	0.89
835	41.5	0.90
900	41.5	0.97
1450	40.5	1.20
1800 to 2000	40.0	1.40
2100	39.8	1.49
2450	39.2	1.80
2600	39.0	1.96
3000	38.5	2.40
3500	37.9	2.91
4000	37.4	3.43
4500	36.8	3.94

5000	36.2	4.45
5200	36.0	4.66
5400	35.8	4.86
5600	35.5	5.07
5800	35.3	5.27

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

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

LIQUID MEASUREMENT RESULTS

Date	Ambient		Simulating Liquid		Parameters	Target	Measured	Deviation %	Limited %
	Temp. [°C]	Humidity %	Frequency(MHz)	Temp. [°C]					
2026-05-11	21.8	61	704	21.6	Permittivity	42.15	42.15	0.01	±5
					Conductivity	0.89	0.89	0.35	±5
2026-05-11	21.8	61	709	21.6	Permittivity	42.12	42.10	-0.04	±5
					Conductivity	0.89	0.90	1.44	±5
2026-05-11	21.8	61	710	21.6	Permittivity	42.11	42.64	1.25	±5
					Conductivity	0.89	0.88	-0.83	±5
2026-05-11	21.8	61	711	21.6	Permittivity	42.11	42.22	0.27	±5
					Conductivity	0.89	0.88	-0.83	±5
2026-05-11	21.8	61	750	21.6	Permittivity	41.90	42.05	0.36	±5
					Conductivity	0.89	0.91	2.13	±5
2026-06-07	22.1	60	829	21.8	Permittivity	41.53	42.15	1.50	±5
					Conductivity	0.90	0.90	0.08	±5
2026-06-07	22.1	60	835	21.8	Permittivity	41.50	41.83	0.80	±5
					Conductivity	0.90	0.91	1.11	±5
2026-06-07	22.1	60	836.5	21.8	Permittivity	41.49	42.11	1.49	±5
					Conductivity	0.90	0.92	2.20	±5
2026-06-07	22.1	60	836.6	21.8	Permittivity	41.49	42.62	2.72	±5
					Conductivity	0.90	0.90	-0.02	±5
2026-06-07	22.1	60	841.5	21.8	Permittivity	41.47	41.93	1.11	±5
					Conductivity	0.90	0.89	-1.20	±5
2026-06-08	21.9	59	1720	21.7	Permittivity	40.11	39.92	-0.48	±5
					Conductivity	1.35	1.36	0.42	±5
2026-06-08	21.9	59	1752.4	21.7	Permittivity	40.07	40.39	0.80	±5
					Conductivity	1.37	1.36	-0.93	±5
2026-06-08	21.9	59	1775	21.7	Permittivity	40.04	40.61	1.43	±5
					Conductivity	1.39	1.39	0.31	±5
2026-06-08	21.9	59	1800	21.7	Permittivity	40.00	40.35	0.88	±5
					Conductivity	1.40	1.41	0.71	±5

2026-06-09	21.7	57	1880	21.5	Permittivity	40.00	39.56	-1.10	±5
					Conductivity	1.40	1.39	-0.71	±5
2026-06-09	21.7	57	1900	21.5	Permittivity	40.00	40.86	2.15	±5
					Conductivity	1.40	1.40	0.00	±5
2026-06-09	21.7	57	1909.8	21.5	Permittivity	40.00	40.10	0.25	±5
					Conductivity	1.40	1.39	-0.71	±5
2026-06-09	21.7	57	2402	21.5	Permittivity	39.29	39.31	0.06	±5
					Conductivity	1.76	1.77	0.72	±5
2026-06-09	21.7	57	2450	21.5	Permittivity	39.20	39.08	-0.31	±5
					Conductivity	1.80	1.79	-0.56	±5
2026-06-09	21.7	57	2462	21.5	Permittivity	39.18	39.97	2.02	±5
					Conductivity	1.81	1.79	-1.14	±5
2026-06-10	22.2	59	2510	21.7	Permittivity	39.12	39.85	1.87	±5
					Conductivity	1.86	1.87	0.32	±5
2026-06-10	22.2	59	2535	21.7	Permittivity	39.09	39.38	0.75	±5
					Conductivity	1.89	1.92	1.55	±5
2026-06-10	22.2	59	2549.5	21.7	Permittivity	39.07	39.59	1.34	±5
					Conductivity	1.91	1.91	0.20	±5
2026-06-10	22.2	59	2580	21.7	Permittivity	39.03	39.49	1.19	±5
					Conductivity	1.94	1.95	0.58	±5
2026-06-10	22.2	59	2593	21.7	Permittivity	39.01	39.53	1.33	±5
					Conductivity	1.95	1.96	0.38	±5
2026-06-10	22.2	59	2595	21.7	Permittivity	39.01	38.67	-0.86	±5
					Conductivity	1.95	1.95	-0.24	±5
2026-06-10	22.2	59	2600	21.7	Permittivity	39.00	38.73	-0.69	±5
					Conductivity	1.96	1.89	-3.57	±5
2026-06-11	21.8	61	5200	21.6	Permittivity	36.00	37.03	2.86	±5
					Conductivity	4.66	4.61	-1.07	±5
2026-06-11	21.8	61	5240	21.6	Permittivity	35.96	35.91	-0.14	±5
					Conductivity	4.70	4.72	0.43	±5
2026-06-11	21.8	61	5775	21.6	Permittivity	35.33	36.20	2.46	±5
					Conductivity	5.24	5.24	-0.08	±5
2026-06-11	21.8	61	5800	21.6	Permittivity	35.30	35.42	0.34	±5

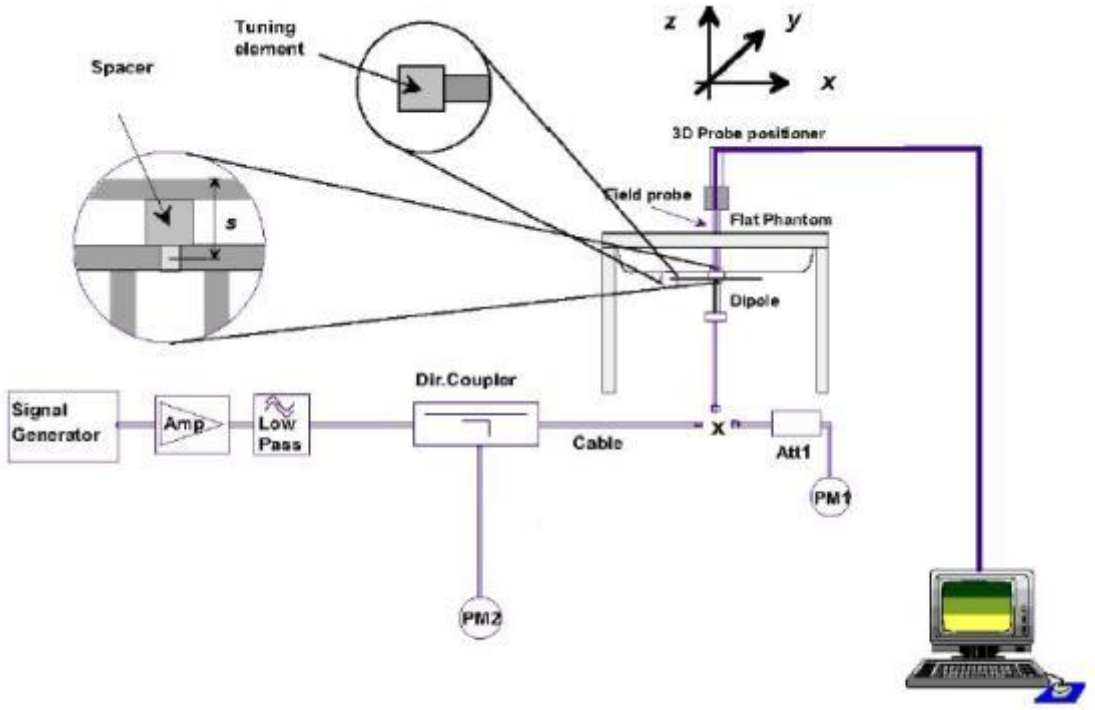
					Conductivity	5.27	5.05	-4.17	±5

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	Freq.	Power	Tested Value	Normalized SAR	Target SAR	Tolerance	Limit
	(MHz)	(mW)	(W/Kg)	(W/kg)	1g(W/kg)	(%)	(%)
2026-05-11	750	100	0.867	8.67	8.49	2.16%	10
2026-06-07	835	100	0.929	9.29	9.63	-3.58%	10
2026-06-08	1800	100	3.843	38.43	38.31	1.27%	10
2026-06-09	1900	100	3.971	39.71	39.84	-0.33%	10
2026-06-09	2450	100	5.428	54.28	54.70	-0.77%	10
2026-06-10	2600	100	5.621	56.21	56.16	0.04%	10
2026-06-11	5200	10	1.706	170.6	158.49	7.64%	10
2026-06-11	5800	10	1.937	193.7	183.06	5.81%	10

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 ±10% of target value.

6. SAR Evaluation Procedures

Step 1: Power Reference Measurement

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

Step 2: Area Scan

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

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

	≤ 3 GHz	> 3 GHz
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface	5 ± 1 mm	½·δ·ln(2) ± 0.5 mm
Maximum probe angle from probe axis to phantom surface normal at the measurement location	30° ± 1°	20° ± 1°
Maximum area scan spatial resolution: Δx_{Area}, Δy_{Area}	≤ 2 GHz: ≤ 15 mm 2 – 3 GHz: ≤ 12 mm	3 – 4 GHz: ≤ 12 mm 4 – 6 GHz: ≤ 10 mm
	When the x or y dimension of the test device, in the measurement plane orientation, is smaller than the above, the measurement resolution must be ≤ the corresponding x or y dimension of the test device with at least one measurement point on the test device.	

Step 3: Zoom Scan

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

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

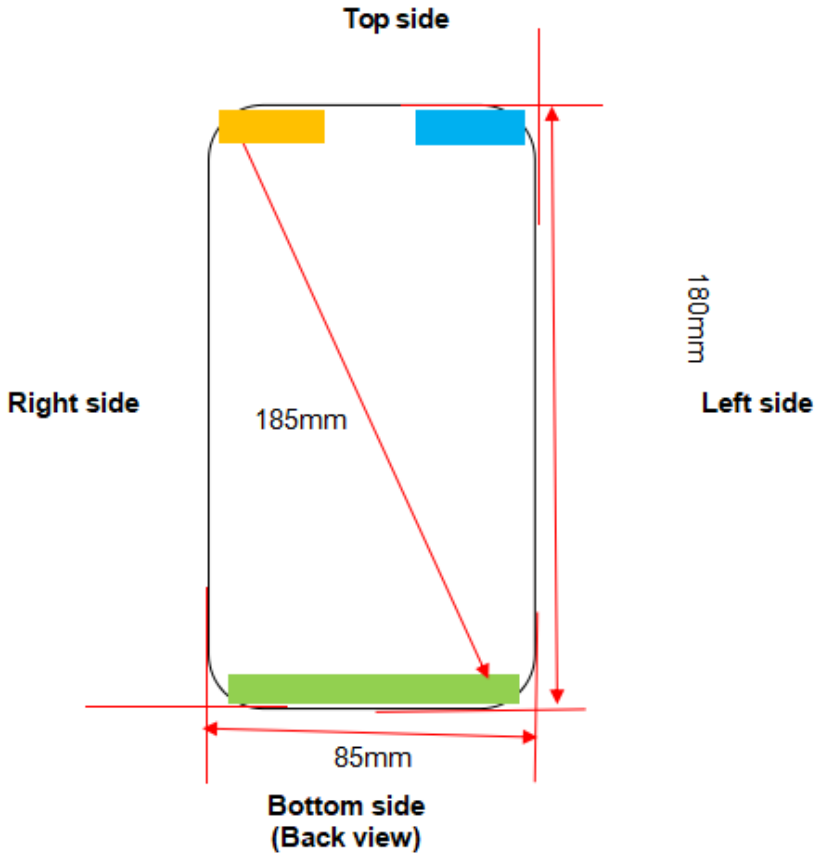
Maximum zoom scan spatial resolution: Δx_{Zoom}, Δy_{Zoom}			≤ 2 GHz: ≤ 8 mm 2 – 3 GHz: ≤ 5 mm*	3 – 4 GHz: ≤ 5 mm* 4 – 6 GHz: ≤ 4 mm*
Maximum zoom scan spatial resolution, normal to phantom surface	uniform grid: $\Delta z_{Zoom}(n)$		≤ 5 mm	3 – 4 GHz: ≤ 4 mm 4 – 5 GHz: ≤ 3 mm 5 – 6 GHz: ≤ 2 mm
	graded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

Step 4: Power Drift Measurement

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

7. EUT Antenna Location Sketch

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



Antenna Separation Distance(cm)						
ANT	Back Side	Front Side	Left Side	Right Side	Top Side	Bottom Side
WLAN/BT	0.5	0.5	7.5	0.5	0.5	16.5
WWAN_Main	0.5	0.5	0.5	0.5	17	0.5
WWAN_AUX	0.5	0.5	0.5	7.5	0.5	16.5

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

7.1 SAR test exclusion consider table

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

	Wireless Interface	GSM850	PCS1900	WCDMA II	WCDMA V	WCDMA IV
Exposure Position	Calculated Frequency(GHz)	0.8366	1.9098	1.88	0.8366	1.7524
	Maximum Turn-up power (dBm)	26	23	24	24	24
	Maximum rated power(mW)	398.11	199.53	251.19	251.19	251.19
Back Side	Separation distance (cm)	0.5	0.5	0.5	0.5	0.5
	exclusion threshold(mW)	9.22	3.35	3.39	9.22	3.59
	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)	9.22	3.35	3.39	9.22	3.59
	Testing required?	YES	YES	YES	YES	YES
Left Edge	Separation distance (cm)	0.5	0.5	0.5	0.5	0.5
	exclusion threshold(mW)	9.22	3.35	3.39	9.22	3.59
	Testing required?	YES	YES	YES	YES	YES
Right Edge	Separation distance (cm)	0.5	0.5	0.5	0.5	0.5
	exclusion threshold(mW)	9.22	3.35	3.39	9.22	3.59
	Testing required?	YES	YES	YES	YES	YES
Top Edge	Separation distance (cm)	17	17	17	17	17
	exclusion threshold(mW)	1355.99	2266.12	2267.38	1355.99	2273.01
	Testing required?	NO	NO	NO	NO	NO

Bottom Edge	Separation distance (cm)	0.5	0.5	0.5	0.5	0.5
	exclusion threshold(mW)	9.22	3.35	3.39	9.22	3.59
	Testing required?	YES	YES	YES	YES	YES

Exposure Position	Wireless Interface	LTE Band 2	LTE Band 4	LTE Band 5	LTE Band 7	LTE Band 12
	Calculated Frequency(GHz)	1.88	1.775	0.829	2.51	0.711
	Maximum Turn-up power (dBm)	24	24	24	24	24
	Maximum rated power(mW)	251.19	251.19	251.19	251.19	251.19
Back Side	Separation distance (cm)	0.5	0.5	0.5	0.5	0.5
	exclusion threshold(mW)	3.39	3.55	9.34	2.69	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)	3.39	3.55	9.34	2.69	11.59
	Testing required?	YES	YES	YES	YES	YES
Left Edge	Separation distance (cm)	0.5	0.5	0.5	0.5	0.5
	exclusion threshold(mW)	3.39	3.55	9.34	2.69	11.59
	Testing required?	YES	YES	YES	YES	YES
Right Edge	Separation distance (cm)	0.5	0.5	0.5	0.5	0.5
	exclusion threshold(mW)	3.39	3.55	9.34	2.69	11.59
	Testing required?	YES	YES	YES	YES	YES
Top Edge	Separation distance (cm)	17	17	17	17	17
	exclusion threshold(mW)	2267.38	2271.98	1344.97	2244.37	1172.44
	Testing required?	NO	NO	NO	NO	NO
Bottom Edge	Separation distance (cm)	0.5	0.5	0.5	0.5	0.5
	exclusion threshold(mW)	3.39	3.55	9.34	2.69	11.59
	Testing required?	YES	YES	YES	YES	YES

Exposure Position	Wireless Interface	LTE Band 17	LTE Band 26	LTE Band 38	LTE Band 41	LTE Band 66
	Calculated Frequency(GHz)	0.709	0.8415	2.595	2.5495	1.72
	Maximum Turn-up power (dBm)	24	24	24	24	24
	Maximum rated power(mW)	251.19	251.19	251.19	251.19	251.19
Back Side	Separation distance (cm)	0.5	0.5	0.5	0.5	0.5
	exclusion threshold(mW)	11.63	9.15	2.62	2.66	3.64
	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)	11.63	9.15	2.62	2.66	3.64
	Testing required?	YES	YES	YES	YES	YES
Left Edge	Separation distance (cm)	0.5	0.5	0.5	0.5	0.5
	exclusion threshold(mW)	11.63	9.15	2.62	2.66	3.64
	Testing required?	YES	YES	YES	YES	YES
Right Edge	Separation distance (cm)	0.5	0.5	0.5	0.5	0.5
	exclusion threshold(mW)	11.63	9.15	2.62	2.66	3.64
	Testing required?	YES	YES	YES	YES	YES
Top Edge	Separation distance (cm)	17	17	17	17	17
	exclusion threshold(mW)	1169.49	1363.09	2241.73	2243.13	2274.51
	Testing required?	NO	NO	NO	NO	NO
Bottom Edge	Separation distance (cm)	0.5	0.5	0.5	0.5	0.5
	exclusion threshold(mW)	11.63	9.15	2.62	2.66	3.64
	Testing required?	YES	YES	YES	YES	YES

Exposure Position	Wireless Interface	BT	2.4G WLAN	5.2G WLAN	5.8G WLAN
	Calculated Frequency(GHz)	2.402	2.462	5.24	5.775
	Maximum Turn-up power (dBm)	4	20	13	14
	Maximum rated power(mW)	2.51	100.00	19.95	25.12
Back Side	Separation distance (cm)	0.5	0.5	0.5	0.5
	exclusion threshold(mW)	2.79	2.73	1.49	1.38
	Testing required?	NO	YES	YES	YES
Front Side	Separation distance (cm)	0.5	0.5	0.5	0.5
	exclusion threshold(mW)	2.79	2.73	1.49	1.38
	Testing required?	NO	YES	YES	YES
Left Edge	Separation distance (cm)	7.5	7.5	7.5	7.5
	exclusion threshold(mW)	475.66	473.16	402.85	394.59
	Testing required?	NO	NO	NO	NO
Right Edge	Separation distance (cm)	0.5	0.5	0.5	0.5
	exclusion threshold(mW)	2.79	2.73	1.49	1.38
	Testing required?	NO	YES	YES	YES
Top Edge	Separation distance (cm)	0.5	0.5	0.5	0.5
	exclusion threshold(mW)	2.79	2.73	1.49	1.38
	Testing required?	NO	YES	YES	YES
Bottom Edge	Separation distance (cm)	16.5	16.5	16.5	16.5
	exclusion threshold(mW)	2124.04	2121.85	2055.95	2047.62
	Testing required?	NO	NO	NO	NO

Note：

1. maximum power is the source-based time-average power and represents the maximum RF output power among production units.
2. Per KDB 447498 D01 v06, for larger devices, the test separation distance of adjacent edge configuration is determined by the closest separation between the antenna and the user.
3. Per KDB 447498 D01 v06 Section 4.3.1, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions is not required when the SAR test exclusion threshold is satisfied. For 100 MHz to 6 GHz and test separation distances ≤ 50 mm, the criterion is given by:

   [(Max. power of channel, including tune-up tolerance, mW) / (Min. test separation distance, mm)] × √f(GHz) ≤ 3.0 for 1-g head/body SAR, and ≤ 7.5 for 10-g extremity SAR.

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

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

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

8. EUT Test Position

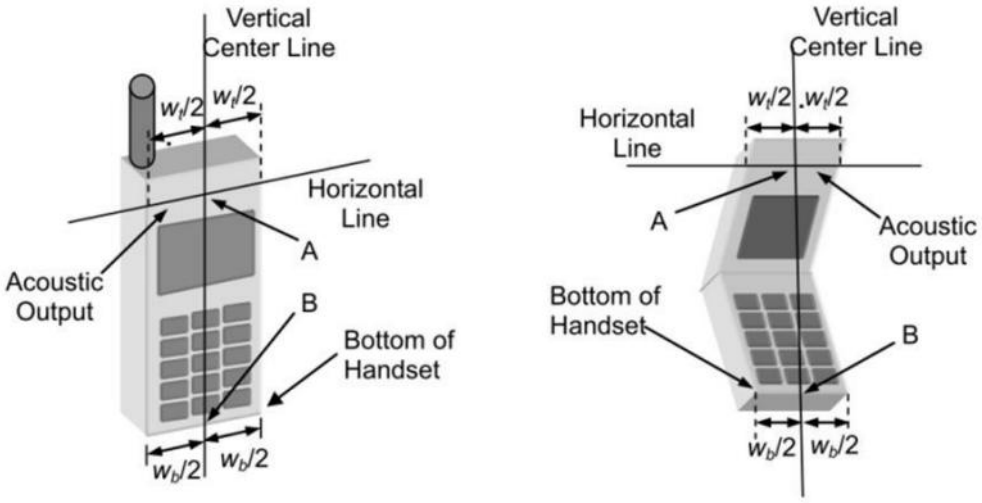
This EUT was tested in Right Cheek, Right Titled, Left Cheek, Left Titled, **Body front**, **Body back**. **and 6 edges.**

8.1 Define Two Imaginary Lines on the Handset

(1)The vertical centerline passes through two points on the front side of the handset the midpoint of the width wt of the handset at the level of the acoustic output, and the midpoint of the width wb of the handset.

(2)The horizontal line is perpendicular to the vertical centerline and passes through the center of the acoustic output. The horizontal line is also tangential to the face of the handset at point A.

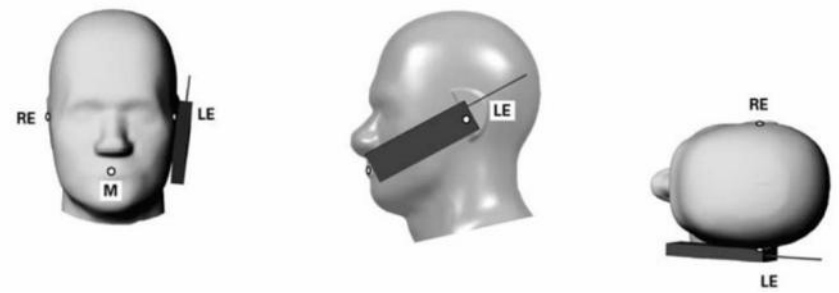
(3)The two lines intersect at point A. Note that for many handsets, point A coincides with the center of the acoustic output; however, the acoustic output may be located elsewhere on the horizontal line. Also note that the vertical centerline is not necessarily to the front face of the handset, especially for clamshell handsets, handsets with flip covers, and other irregularly shaped handsets.



Cheek Position

1) To position the device with the vertical center line of the body of the device and the horizontal line crossing the center piece in a plane parallel to the sagittal plane of the phantom. While maintaining the device in this plane, align the vertical center line with the reference plane containing the ear and mouth reference point (M: Mouth, RE: Right Ear, and LE: Left Ear) and align the center of the ear piece with the line RE-LE.

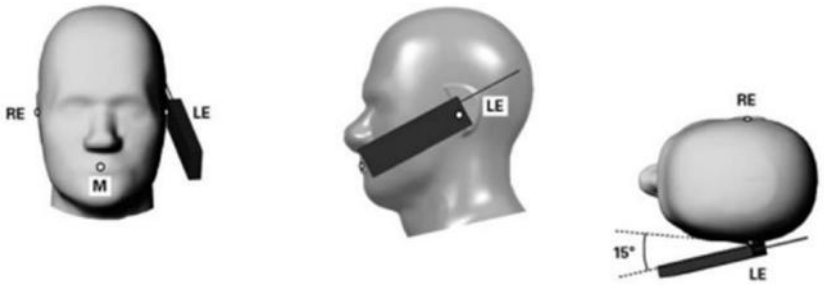
2) To move the device towards the phantom with the ear piece aligned with the line LE-RE until the phone touched the ear. While maintaining the device in the reference plane and maintaining the phone contact with ear, move the bottom of the phone until any point on the front side is in contact with the cheek of the phantom or until contact with the ear is lost



Title Position

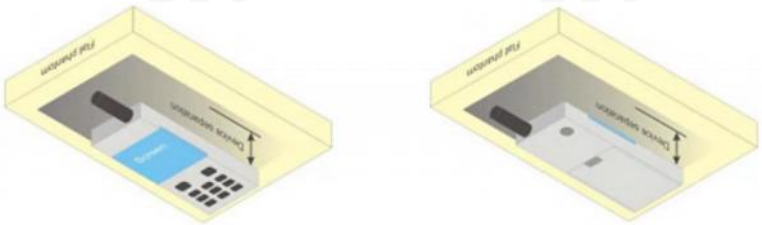
(1)To position the device in the “cheek” position described above.

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



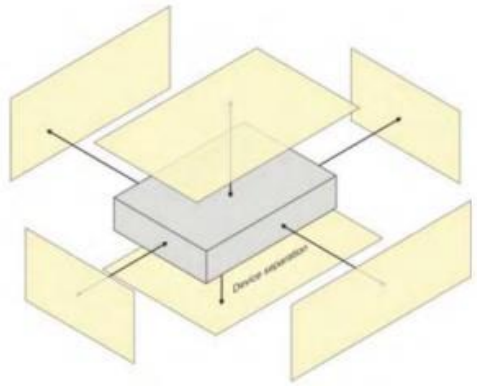
Body-worn Position Conditions:

Body-worn accessory exposure is typically related to voice mode operations when handsets are carried in body-worn accessories. The body-worn accessory procedures in KDB Publication 447498 D01 v06 should be used to test for body-worn accessory SAR compliance, without a headset connected to it. When the same wireless transmission configuration is used for testing body-worn accessory and hotspot mode SAR, respectively, in voice and data mode, SAR results for the most conservative *test separation distance* configuration may be used to support both SAR conditions. When the *reported* SAR for a body-worn accessory, measured without a headset connected to the handset, is > 1.2 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 form 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	E2.5	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	E2.5	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			K=2				19.44	19.03	

(95% Confidence interval)									

SATIMO Uncertainty- SN 08/21 EPGO352									
◦ 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	E2.5	3.42	R	1.73	0.00	0.00	0.00	0.00	∞
Readout Electronics	E.2.6	0.26	N	1.00	0.00	0.00	0.00	0.00	∞
Response Time	E.2.7	0.17	R	1.73	0.00	0.00	0.00	0.00	∞
Integration Time	E.2.8	1.43	R	1.73	0.00	0.00	0.00	0.00	∞
RF ambient conditions-Noise	E.6.1	3.51	R	1.73	0.00	0.00	0.00	0.00	∞
RF ambient conditions-reflections	E.6.1	3.15	R	1.73	0.00	0.00	0.00	0.00	∞
Probe positioner mechanical tolerance	E.6.2	1.2	R	1.73	1.00	1.00	0.69	0.69	∞
Probe positioning with respect to phantom shell	E.6.3	1.4	R	1.73	1.00	1.00	0.81	0.81	∞
Extrapolation, interpolation, and integrations algorithms for max. SAR evaluation	E.5	3.9	R	1.73	0.00	0.00	0.00	0.00	∞
System check source (dipole)									

Deviation of experimental dipoles	E.6.4	4.8	N	1.00	1.00	1.00	4.80	4.80	∞
Input power and SAR drift measurement	8,6.6.4	5.1	R	1.73	1.00	1.00	2.94	2.94	∞
Dipole axis to liquid distance	8,E.6.6	2.4	R	1.73	1.00	1.00	1.39	1.39	∞
Phantom and tissue parameters									
Phantom shell uncertainty—shape, thickness, and permittivity	E.3.1	3.7	R	1.73	1.00	1.00	2.14	2.14	∞
Uncertainty in SAR correction for deviations in permittivity and conductivity	E.3.2	1.9	N	1.00	1.00	0.84	1.90	1.60	∞
Liquid conductivity measurement	E.3.3	2.4	R	1.73	0.78	0.71	1.08	0.98	∞
Liquid permittivity measurement	E.3.3	4.1	N	1.00	0.78	0.71	3.20	2.91	M
Liquid conductivity—temperature uncertainty	E.3.4	2.7	R	1.73	0.23	0.26	0.36	0.41	∞
Liquid permittivity—temperature uncertainty	E.3.4	4.8	N	1.00	0.23	0.26	1.10	1.25	M
Combined Standard Uncertainty			RSS				5.56	5.20	
Expanded Uncertainty (95% Confidence interval)			K=2				11.12	10.41	

10. Conducted Power Measurement

10.1 Test Result

Burst Average Power (dBm)						
Band	GSM 850			PCS 1900		
Channel	128	190	251	512	661	810
Frequency (MHz)	824.2	836.6	848.8	1850.2	1880.0	1909.8
GSM(GMSK, 1-Slot)	32.05	32.47	31.98	29.51	29.6	29.7
GPRS (GMSK, 1-Slot)	31.44	32.22	32.24	29.28	29.49	29.22
GPRS (GMSK, 2-Slot)	30.08	31.96	31.28	28.12	27.35	27.18
GPRS (GMSK, 3-Slot)	29.61	29.88	29.78	26.8	26.74	26.99
GPRS (GMSK, 4-Slot)	27.59	27.57	27.36	25.24	25.48	25.57
EGPRS(8PSK, 1-Slot)	26.04	26.48	26.17	25.64	25.43	25.02
EGPRS(8PSK, 2-Slot)	24.84	25.11	25.79	23.22	23.75	23.16
EGPRS(8PSK, 3-Slot)	23.93	23.58	22.62	22.79	22.69	22.1
EGPRS(8PSK, 4-Slot)	21.37	21.42	21.13	21.07	21.41	21.99
Remark: GPRS, CS4 coding scheme. EGPRS, MCS5 coding scheme. Multi-Slot Class 8, Support Max 4 downlink, 1 uplink, 5 working link Multi-Slot Class 10, Support Max 4 downlink, 2 uplink, 5 working link						

Frame- Average Power(dBm)						
Band	GSM 850			PCS 1900		
Channel	128	190	251	512	661	810
Frequency (MHz)	824.2	836.6	848.8	1850.2	1880.0	1909.8
GSM(GMSK, 1-Slot)	23.02	23.44	22.95	20.48	20.57	20.67
GPRS (GMSK, 1-Slot)	22.41	23.19	23.21	20.25	20.46	20.19
GPRS (GMSK, 2-Slot)	24.06	25.94	25.26	22.10	21.33	21.16
GPRS (GMSK, 3-Slot)	25.35	25.62	25.52	22.54	22.48	22.73
GPRS (GMSK, 4-Slot)	24.58	24.56	24.35	22.23	22.47	22.56
EGPRS(8PSK, 1-Slot)	17.01	17.45	17.14	16.61	16.40	15.99
EGPRS(8PSK, 2-Slot)	18.82	19.09	19.77	17.20	17.73	17.14
EGPRS(8PSK, 3-Slot)	19.67	19.32	18.36	18.53	18.43	17.84
EGPRS(8PSK, 4-Slot)	18.36	18.41	18.12	18.06	18.40	18.98
Remark : 1. SAR testing was performed on the maximum frame-averaged power mode. 2. The frame-averaged power is linearly proportion to the slot number configured and it is linearly scaled the maximum Burst - averaged power based on time slots. The calculated method is shown as below:						

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

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

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

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

WCDMA

Band	WCDMA Band 2			WCDMA Band 5			WCDMA Band 4		
Channel	9262	9400	9538	4132	4183	4233	1312	1413	1513
Frequency (MHz)	1852.4	1880	1907.6	826.4	836.6	846.6	1712.6	1740	1752.4
RMC 12.2Kbps	23.58	23.60	23.55	23.57	23.71	23.58	23.65	23.71	23.76
HSDPA Subtest-1	23.57	23.57	23.41	23.45	23.42	23.54	23.51	23.59	23.55
HSDPA Subtest-2	22.97	22.98	22.94	22.90	22.90	22.92	22.95	22.93	22.93
HSDPA Subtest-3	22.86	22.85	22.89	22.87	22.81	22.86	22.83	22.82	22.87
HSDPA Subtest-4	22.71	22.71	22.82	22.78	22.84	22.80	22.75	22.74	22.81
HSUPA Subtest-1	22.81	22.83	22.74	22.76	22.83	22.82	22.82	22.72	22.79
HSUPA Subtest-2	22.86	22.82	22.75	22.80	22.84	22.78	22.82	22.77	22.84
HSUPA Subtest-3	22.83	22.81	22.86	22.88	22.83	22.80	22.81	22.81	22.84
HSUPA Subtest-4	22.70	22.73	22.77	22.72	22.77	22.80	22.80	22.73	22.75
HSUPA Subtest-5	22.82	22.81	22.85	22.83	22.81	22.81	22.89	22.86	22.88

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≤ CM≤3.5	MAX(CM-1,0)
Note: CM=1 for βc/βd=12/15, βhs/ βc=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)	Output Power (dBm)	Output Power (mW)
802.11b	1	2412	17.21	53.33
	7	2437	19.60	92.47
	11	2462	19.79	96.61
802.11g	1	2412	14.91	33.65
	7	2437	16.56	49.20
	11	2462	15.77	41.02
802.11 n-HT20	1	2412	14.93	31.99
	7	2437	16.28	46.88
	11	2462	16.35	47.86
802.11 n-HT40	3	2422	13.35	26.00
	6	2437	14.45	33.73
	9	2452	14.66	35.16

Bluetooth

BT				
Mode	Channel Number	Frequency (MHz)	Output Power (dBm)	Output Power (mW)
GFSK(1Mbps)	0	2402	3.37	2.17
	39	2441	2.14	1.64
	78	2480	2.95	1.97
π/4-QPSK(2Mbps)	0	2402	3.65	2.32
	39	2441	3.13	2.06
	78	2480	3.43	2.20

8DPSK(3Mbps)	0	2402	3.94	2.48
	39	2441	3.44	2.21
	78	2480	3.74	2.37

BLE

BLE				
Mode	Channel Number	Frequency (MHz)	Output Power (dBm)	Output Power (mW)
GFSK(1Mbps)	0	2402	1.49	1.41
	19	2440	0.54	1.13
	39	2480	1.50	1.41
GFSK(2Mbps)	0	2402	1.41	1.38
	19	2440	0.45	1.11
	39	2480	1.15	1.30

WLAN (5.2Gband)

5.2G WLAN				
Mode	Channel Number	Frequency (MHz)	Output Power (dBm)	Output Power (mW)
802.11a20	36	5180	11.21	13.21
	40	5200	10.37	10.89
	48	5240	12.35	17.18
802.11 n-HT20	36	5180	11.22	13.24
	40	5200	11.37	13.71
	48	5240	11.21	13.21
802.11 n-HT40	38	5190	10.12	10.28
	46	5230	10.81	12.05
802.11ac-VHT20	36	5180	11.18	13.12
	40	5200	11.3	13.49
	48	5240	12.28	16.90
802.11ac-VHT40	38	5190	11.1	12.88
	46	5230	11.04	12.71
802.11ac-VHT80	42	5210	8.26	6.70

WLAN (5.8Gband)

5.8G WLAN				
Mode	Channel Number	Frequency (MHz)	Output Power (dBm)	Output Power (mW)
802.11a20	149	5745	12.9	19.50
	157	5785	12.37	17.26
	165	5825	12.16	16.44
802.11 n-HT20	149	5745	12.76	18.88
	157	5785	12	15.85
	165	5825	11.85	15.31
802.11 n-HT40	151	5755	12.95	19.72
	159	5795	12.61	18.24
802.11ac-VHT20	149	5745	12.78	18.97
	157	5785	12.07	16.11
	165	5825	11.93	15.60
802.11ac-VHT40	151	5755	13.17	20.75
	159	5795	12.68	18.54
802.11ac-VHT80	155	5775	13.08	20.32

LTE Conducted Power

General Note:

1. ROHDE & SCHWARZ CMW500 base station simulator was used to setup the connection with EUT; the frequency band, channel bandwidth, RB allocation configuration, modulation type are set in the base station simulator to configure EUT transmitting at maximum power and at different configurations which are requested to be reported to FCC, for conducted power measurement and SAR testing.

2. Per KDB 941225 D05, when a properly configured base station simulator is used for the SAR and power measurements, spectrum plots for each RB allocation and offset configuration is not required.

3. Per KDB 941225 D05, start with the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel.

4. Per KDB 941225 D05, 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure.

5. Per KDB 941225 D05, For QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are $\leqslant$ 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 ½ dB higher than the same configuration in QPSK and the reported SAR for the QPSK configuration is $\leqslant$ 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 ½ dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is $\leqslant$ 1.45 W/kg; Per KDB 941225 D05, smaller bandwidth SAR testing is not required.

LTE Band 2

BW (MHz)	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)		
				18607	18900	19193
				1850.7	1880	1909.3
1.4	QPSK	1	0	23.51	23.85	23.81
1.4	QPSK	1	3	23.86	23.80	23.08
1.4	QPSK	1	5	23.74	23.94	23.91
1.4	QPSK	3	0	22.55	22.17	22.26
1.4	QPSK	3	1	22.21	22.07	22.31
1.4	QPSK	3	3	22.65	22.42	22.51
1.4	QPSK	6	0	22.09	22.20	22.40
1.4	16QAM	1	0	22.22	22.40	22.33
1.4	16QAM	1	3	22.61	22.60	22.47
1.4	16QAM	1	5	22.33	22.12	22.29
1.4	16QAM	3	0	21.58	21.76	21.61
1.4	16QAM	3	1	21.46	21.41	21.39
1.4	16QAM	3	3	21.21	21.36	21.72
1.4	16QAM	6	0	21.20	21.28	21.81
BW (MHz)	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)		
				18615	18900	19185
				1851.5	1880	1908.5
3	QPSK	1	0	23.73	23.61	23.34
3	QPSK	1	8	23.53	23.46	23.82
3	QPSK	1	14	23.82	23.73	23.31

3	QPSK	8	0	22.36	22.26	22.46
3	QPSK	8	4	22.19	22.42	22.09
3	QPSK	8	7	22.24	22.03	22.30
3	QPSK	15	0	22.33	22.20	22.28
3	16QAM	1	0	22.42	22.49	22.32
3	16QAM	1	8	22.40	22.22	22.31
3	16QAM	1	14	22.45	22.23	22.37
3	16QAM	8	0	21.56	21.62	21.51
3	16QAM	8	4	21.72	21.55	21.49
3	16QAM	8	7	21.56	21.38	21.76
3	16QAM	15	0	21.47	21.48	21.64
BW (MHz)	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)		
				18625	18900	19175
				1852.5	1880	1907.5
5	QPSK	1	0	23.74	23.30	23.35
5	QPSK	1	12	23.81	23.74	23.65
5	QPSK	1	24	23.55	23.88	23.47
5	QPSK	12	0	22.48	22.07	22.59
5	QPSK	12	7	22.63	22.25	22.09
5	QPSK	12	13	22.30	22.45	22.26
5	QPSK	25	0	22.18	22.59	22.31
5	16QAM	1	0	22.33	22.52	22.45
5	16QAM	1	12	22.54	22.49	22.39
5	16QAM	1	24	22.28	22.67	22.54

5	16QAM	12	0	21.57	21.49	21.58
5	16QAM	12	7	21.53	21.27	21.47
5	16QAM	12	13	21.34	21.56	21.36
5	16QAM	25	0	21.62	21.47	21.43
BW (MHz)	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)		
				18650	18900	19150
				1855	1880	1905
10	QPSK	1	0	23.60	23.43	23.28
10	QPSK	1	25	23.78	23.63	23.09
10	QPSK	1	49	23.85	23.82	23.81
10	QPSK	25	0	22.24	22.41	22.29
10	QPSK	25	12	22.26	22.56	22.53
10	QPSK	25	25	22.58	22.39	22.08
10	QPSK	50	0	22.61	22.60	22.72
10	16QAM	1	0	22.55	22.63	22.28
10	16QAM	1	25	22.57	22.66	22.20
10	16QAM	1	49	22.48	22.50	22.60
10	16QAM	25	0	21.27	21.52	21.78
10	16QAM	25	12	21.61	21.41	21.53
10	16QAM	25	25	21.45	21.53	21.72
10	16QAM	50	0	21.29	21.65	21.59
BW (MHz)	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)		
				18675	18900	19125
				1857.5	1880	1902.5

15	QPSK	1	0	23.31	23.57	23.43
15	QPSK	1	37	23.47	23.74	23.50
15	QPSK	1	74	23.19	23.58	23.27
15	QPSK	36	0	22.60	22.46	22.59
15	QPSK	36	20	22.68	22.06	22.15
15	QPSK	36	39	22.63	22.54	22.35
15	QPSK	75	0	22.16	22.14	22.47
15	16QAM	1	0	22.54	22.40	22.37
15	16QAM	1	37	22.22	22.46	22.67
15	16QAM	1	74	22.32	22.30	22.11
15	16QAM	36	0	21.69	21.39	21.43
15	16QAM	36	20	21.36	21.37	21.30
15	16QAM	36	39	21.73	21.55	21.58
15	16QAM	75	0	21.38	21.48	21.39
LTE Band 2						
BW (MHz)	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)		
				18700	18900	19100
				1860	1880	1900
20	QPSK	1	0	23.30	23.84	23.75
20	QPSK	1	49	23.39	23.69	23.69
20	QPSK	1	99	23.29	23.67	23.21
20	QPSK	50	0	22.12	22.43	22.36
20	QPSK	50	24	22.40	22.31	22.20
20	QPSK	50	50	22.59	22.58	22.35

20	QPSK	100	0	22.57	22.33	22.62
20	16QAM	1	0	22.62	22.48	22.49
20	16QAM	1	49	22.49	22.66	22.61
20	16QAM	1	99	22.52	22.39	22.28
20	16QAM	50	0	21.57	21.68	21.78
20	16QAM	50	24	21.43	21.40	21.71
20	16QAM	50	50	21.35	21.44	21.47
20	16QAM	100	0	21.56	21.48	21.50

LTE BAND 4

BW (MHz)	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)		
				19957	20175	20393
				1710.7	1747.5	1784.3
1.4	QPSK	1	0	23.63	23.45	23.29
1.4	QPSK	1	3	23.70	23.72	23.64
1.4	QPSK	1	5	23.73	23.35	23.38
1.4	QPSK	3	0	22.43	22.56	22.55
1.4	QPSK	3	1	22.07	22.68	22.21
1.4	QPSK	3	3	22.32	22.37	22.43
1.4	QPSK	6	0	22.61	22.49	22.74
1.4	16QAM	1	0	22.01	22.45	22.63
1.4	16QAM	1	3	22.44	22.23	22.58
1.4	16QAM	1	5	22.45	22.52	22.23
1.4	16QAM	3	0	21.43	21.46	21.62
1.4	16QAM	3	1	21.63	21.38	21.49
1.4	16QAM	3	3	21.58	21.54	21.26
1.4	16QAM	6	0	21.43	21.51	21.28
BW (MHz)	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)		
				19665	20175	20385
				1711.5	1747.5	1783.5
3	QPSK	1	0	23.74	23.71	23.33
3	QPSK	1	8	23.81	23.94	23.55
3	QPSK	1	14	23.60	23.75	23.75

3	QPSK	8	0	22.29	22.32	22.58
3	QPSK	8	4	22.39	22.39	22.53
3	QPSK	8	7	22.08	22.43	22.61
3	QPSK	15	0	22.09	22.20	22.42
3	16QAM	1	0	22.39	22.41	22.54
3	16QAM	1	8	22.66	22.13	22.38
3	16QAM	1	14	22.14	22.26	22.52
3	16QAM	8	0	21.49	21.21	21.68
3	16QAM	8	4	21.44	21.66	21.25
3	16QAM	8	7	21.75	21.39	21.25
3	16QAM	15	0	21.38	21.69	21.50
BW (MHz)	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)		
				19975	20175	20375
				1712.5	1747.5	1782.5
5	QPSK	1	0	23.48	23.93	23.57
5	QPSK	1	12	23.79	23.87	23.71
5	QPSK	1	24	23.21	23.46	23.87
5	QPSK	12	0	22.41	22.21	22.13
5	QPSK	12	7	22.25	22.31	22.13
5	QPSK	12	13	22.57	22.63	22.53
5	QPSK	25	0	22.14	22.45	22.35
5	16QAM	1	0	22.42	22.34	22.46
5	16QAM	1	12	22.48	22.35	22.46
5	16QAM	1	24	22.40	22.27	22.33

5	16QAM	12	0	21.60	21.62	21.56
5	16QAM	12	7	21.51	21.45	21.69
5	16QAM	12	13	21.66	21.69	21.56
5	16QAM	25	0	21.44	21.61	21.29
BW (MHz)	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)		
				20000	20175	20350
				1715	1747.5	1780
10	QPSK	1	0	23.54	23.83	23.60
10	QPSK	1	25	23.83	23.12	23.59
10	QPSK	1	49	23.91	23.27	23.68
10	QPSK	25	0	22.50	22.34	22.29
10	QPSK	25	12	22.27	22.60	22.63
10	QPSK	25	25	22.23	22.52	22.49
10	QPSK	50	0	22.53	22.62	22.27
10	16QAM	1	0	22.07	22.12	22.73
10	16QAM	1	25	22.34	22.28	22.24
10	16QAM	1	49	22.07	22.40	22.20
10	16QAM	25	0	21.65	21.55	21.30
10	16QAM	25	12	21.50	21.56	21.56
10	16QAM	25	25	21.32	21.25	21.63
10	16QAM	50	0	21.66	21.67	21.46
BW (MHz)	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)		
				20025	20175	20325
				1717.5	1747.5	1777.5

15	QPSK	1	0	23.55	23.55	23.83
15	QPSK	1	37	23.91	23.17	23.91
15	QPSK	1	74	23.44	23.90	23.82
15	QPSK	36	0	22.38	22.66	22.48
15	QPSK	36	20	22.25	22.42	22.19
15	QPSK	36	39	22.20	22.33	22.43
15	QPSK	75	0	22.34	22.34	22.45
15	16QAM	1	0	22.24	22.57	22.55
15	16QAM	1	37	22.43	22.61	22.53
15	16QAM	1	74	22.36	22.44	22.48
15	16QAM	36	0	21.53	21.43	21.44
15	16QAM	36	20	21.22	21.43	21.57
15	16QAM	36	39	21.65	21.64	21.47
15	16QAM	75	0	21.17	21.47	21.59
LTE Band 4						
BW (MHz)	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)		
				20050	20175	20300
				1720	1747.5	1775
20	QPSK	1	0	23.77	23.79	23.71
20	QPSK	1	49	23.60	23.66	23.08
20	QPSK	1	99	23.64	23.43	23.80
20	QPSK	50	0	22.31	22.23	22.49
20	QPSK	50	24	22.14	22.22	22.13
20	QPSK	50	50	22.52	22.38	22.16

20	QPSK	100	0	22.57	22.36	22.60
20	16QAM	1	0	22.10	22.36	22.28
20	16QAM	1	49	22.29	22.66	22.18
20	16QAM	1	99	22.12	22.41	22.48
20	16QAM	50	0	21.69	21.19	21.45
20	16QAM	50	24	21.39	21.46	21.63
20	16QAM	50	50	21.55	21.41	21.44
20	16QAM	100	0	21.47	21.55	21.40

LTE BAND 5

BW (MHz)	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)		
				20407	20525	20643
				824.7	836.5	848.3
1.4	QPSK	1	0	23.62	23.19	23.59
1.4	QPSK	1	3	23.62	23.50	23.53
1.4	QPSK	1	5	23.63	23.57	23.88
1.4	QPSK	3	0	22.36	22.21	22.37
1.4	QPSK	3	1	22.05	22.48	22.11
1.4	QPSK	3	3	22.46	22.05	22.16
1.4	QPSK	6	0	22.20	22.07	22.58
1.4	16QAM	1	0	22.21	22.53	22.40
1.4	16QAM	1	3	22.12	22.41	22.62
1.4	16QAM	1	5	22.09	22.13	22.34
1.4	16QAM	3	0	21.41	21.24	21.46
1.4	16QAM	3	1	21.37	21.58	21.45
1.4	16QAM	3	3	21.66	21.44	21.51
1.4	16QAM	6	0	21.45	21.42	21.59
BW (MHz)	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)		
				20415	20525	20635
				825.5	836.5	844
3	QPSK	1	0	23.22	23.60	23.70
3	QPSK	1	8	23.22	23.80	23.23
3	QPSK	1	14	23.55	23.46	23.29

3	QPSK	8	0	22.56	22.13	22.14
3	QPSK	8	4	22.13	22.47	22.36
3	QPSK	8	7	22.43	22.30	22.21
3	QPSK	15	0	22.21	22.59	22.31
3	16QAM	1	0	22.36	22.13	22.15
3	16QAM	1	8	22.26	22.50	22.37
3	16QAM	1	14	22.16	22.46	22.52
3	16QAM	8	0	21.22	21.32	21.30
3	16QAM	8	4	21.25	21.49	21.50
3	16QAM	8	7	21.38	21.44	21.27
3	16QAM	15	0	21.53	21.43	21.35
BW (MHz)	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)		
				20425	20525	20625
				826.5	836.5	846.5
5	QPSK	1	0	23.37	23.75	23.21
5	QPSK	1	12	23.50	23.84	23.44
5	QPSK	1	24	23.43	23.50	23.66
5	QPSK	12	0	22.16	22.21	22.07
5	QPSK	12	7	22.48	22.36	22.56
5	QPSK	12	13	22.51	22.20	22.32
5	QPSK	25	0	22.23	22.38	22.21
5	16QAM	1	0	22.49	22.12	22.32
5	16QAM	1	12	22.43	22.27	22.34
5	16QAM	1	24	22.39	22.49	22.16

5	16QAM	12	0	21.17	21.30	21.61
5	16QAM	12	7	21.35	21.54	21.32
5	16QAM	12	13	21.52	21.55	21.17
5	16QAM	25	0	21.50	21.53	21.66
LTE Band 5						
BW (MHz)	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)		
				20450	20525	20600
				829	836.5	844
10	QPSK	1	0	23.85	23.18	23.70
10	QPSK	1	25	23.71	23.26	23.66
10	QPSK	1	49	23.65	23.28	23.42
10	QPSK	25	0	22.28	22.29	22.39
10	QPSK	25	12	22.22	22.54	22.28
10	QPSK	25	25	22.43	22.65	22.32
10	QPSK	50	0	22.37	22.27	22.41
10	16QAM	1	0	22.48	22.05	22.55
10	16QAM	1	25	22.35	22.42	22.07
10	16QAM	1	49	22.44	22.24	22.46
10	16QAM	25	0	21.42	21.48	21.33
10	16QAM	25	12	21.36	21.50	21.36
10	16QAM	25	25	21.34	21.27	21.12
10	16QAM	50	0	21.63	21.55	21.20

LTE BAND 7

BW (MHz)	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)		
				20775	21100	21425
				2502.5	2535	2567.5
5	QPSK	1	0	23.66	23.49	23.17
5	QPSK	1	12	23.72	23.62	23.56
5	QPSK	1	24	23.31	26.41	23.55
5	QPSK	12	0	22.46	22.28	22.20
5	QPSK	12	7	22.40	22.58	22.15
5	QPSK	12	13	22.12	22.71	22.45
5	QPSK	25	0	22.58	22.29	22.49
5	16QAM	1	0	22.19	22.70	22.51
5	16QAM	1	12	22.40	22.43	22.32
5	16QAM	1	24	22.68	22.37	22.36
5	16QAM	12	0	21.52	21.64	21.68
5	16QAM	12	7	21.62	21.30	21.72
5	16QAM	12	13	21.47	21.70	21.54
5	16QAM	25	0	21.73	21.42	21.62
BW (MHz)	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)		
				20800	21100	21400
				2505	2535	2565
10	QPSK	1	0	23.46	23.76	23.26
10	QPSK	1	25	23.38	23.74	23.30
10	QPSK	1	49	23.20	23.45	23.97

10	QPSK	25	0	22.49	22.39	22.44
10	QPSK	25	12	22.31	22.44	22.35
10	QPSK	25	25	22.44	22.38	22.63
10	QPSK	50	0	22.59	22.51	22.21
10	16QAM	1	0	22.36	22.37	22.47
10	16QAM	1	25	22.27	22.42	22.47
10	16QAM	1	49	22.41	22.31	22.27
10	16QAM	25	0	21.50	21.33	21.18
10	16QAM	25	12	21.43	21.65	21.60
10	16QAM	25	25	21.40	21.47	21.44
10	16QAM	50	0	21.52	21.80	21.47
BW (MHz)	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)		
				20825	21100	21375
				2507.5	2535	2562.5
15	QPSK	1	0	23.90	23.50	23.84
15	QPSK	1	37	23.37	23.56	23.64
15	QPSK	1	74	23.29	23.58	23.35
15	QPSK	36	0	22.20	22.31	22.23
15	QPSK	36	20	22.64	22.38	22.32
15	QPSK	36	39	22.44	22.10	22.21
15	QPSK	75	0	22.17	22.49	22.60
15	16QAM	1	0	22.63	22.51	22.50
15	16QAM	1	37	22.10	22.33	22.41
15	16QAM	1	74	22.54	22.32	22.58

15	16QAM	36	0	21.28	21.84	21.57
15	16QAM	36	20	21.53	21.29	21.47
15	16QAM	36	39	21.30	21.48	21.52
15	16QAM	75	0	21.38	21.41	21.42
BW (MHz)	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)		
				20850	21100	21350
				2510	2535	2560
20	QPSK	1	0	23.78	23.46	23.79
20	QPSK	1	49	23.56	23.44	23.64
20	QPSK	1	99	23.97	23.96	23.03
20	QPSK	50	0	22.19	22.48	22.37
20	QPSK	50	24	22.52	22.69	22.27
20	QPSK	50	50	22.32	22.60	22.14
20	QPSK	100	0	22.40	22.74	22.27
20	16QAM	1	0	22.49	22.28	22.27
20	16QAM	1	49	22.45	22.53	22.46
20	16QAM	1	99	22.42	22.55	22.45
20	16QAM	50	0	21.21	21.39	21.33
20	16QAM	50	24	21.62	21.39	21.77
20	16QAM	50	50	21.48	21.29	21.47
20	16QAM	100	0	21.40	21.55	21.47

LTE BAND 12

BW (MHz)	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)		
				23017	23095	23173
				699.7	707.5	715.3
1.4	QPSK	1	0	23.30	23.34	23.11
1.4	QPSK	1	3	23.66	23.53	23.75
1.4	QPSK	1	5	23.75	23.85	23.72
1.4	QPSK	3	0	22.36	22.47	22.41
1.4	QPSK	3	1	22.43	22.38	22.41
1.4	QPSK	3	3	22.11	22.20	22.27
1.4	QPSK	6	0	22.28	22.17	22.25
1.4	16QAM	1	0	22.23	22.39	22.60
1.4	16QAM	1	3	22.12	22.28	22.75
1.4	16QAM	1	5	22.47	22.61	22.51
1.4	16QAM	3	0	21.31	21.53	21.47
1.4	16QAM	3	1	21.46	21.65	21.49
1.4	16QAM	3	3	21.79	21.61	21.64
1.4	16QAM	6	0	21.43	21.57	21.50
BW (MHz)	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)		
				23025	23095	23165
				700.5	707.5	714.5
3	QPSK	1	0	23.94	23.45	23.38
3	QPSK	1	8	23.39	23.30	23.57
3	QPSK	1	14	23.57	23.45	23.94

3	QPSK	8	0	22.13	22.45	22.31
3	QPSK	8	4	22.30	22.60	22.04
3	QPSK	8	7	22.40	22.36	22.33
3	QPSK	15	0	22.43	22.29	22.26
3	16QAM	1	0	22.36	22.66	22.65
3	16QAM	1	8	22.39	22.43	22.30
3	16QAM	1	14	22.48	22.61	22.36
3	16QAM	8	0	21.38	21.44	21.75
3	16QAM	8	4	21.39	21.55	21.66
3	16QAM	8	7	21.50	21.77	21.35
3	16QAM	15	0	21.43	21.48	21.38
BW (MHz)	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)		
				23035	23095	23155
				701.5	707.5	713.5
5	QPSK	1	0	23.87	23.67	23.41
5	QPSK	1	12	23.21	23.18	23.26
5	QPSK	1	24	23.83	23.46	23.85
5	QPSK	12	0	22.06	22.14	22.31
5	QPSK	12	7	22.43	22.20	22.16
5	QPSK	12	13	22.21	22.46	22.39
5	QPSK	25	0	22.21	22.29	22.35
5	16QAM	1	0	22.30	22.53	22.28
5	16QAM	1	12	22.17	22.18	22.71
5	16QAM	1	24	22.64	22.38	22.30

5	16QAM	12	0	21.47	21.44	21.60
5	16QAM	12	7	21.49	21.61	21.71
5	16QAM	12	13	21.28	21.39	21.63
5	16QAM	25	0	21.42	21.40	21.56
LTE Band 12						
BW (MHz)	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)		
				23060	23095	23130
				704	707.5	711
10	QPSK	1	0	23.80	23.71	23.89
10	QPSK	1	25	23.39	23.62	23.63
10	QPSK	1	49	23.69	23.59	23.66
10	QPSK	25	0	22.31	22.25	22.31
10	QPSK	25	12	22.46	22.29	22.24
10	QPSK	25	25	22.15	22.14	22.40
10	QPSK	50	0	22.55	22.33	22.60
10	16QAM	1	0	22.27	22.16	22.42
10	16QAM	1	25	22.30	22.49	22.38
10	16QAM	1	49	22.30	22.39	22.45
10	16QAM	25	0	21.47	21.43	21.20
10	16QAM	25	12	21.52	21.35	21.75
10	16QAM	25	25	21.48	21.51	21.54
10	16QAM	50	0	21.35	21.56	21.37

LTE BAND 17

BW (MHz)	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)		
				23755	23790	23825
				706.5	710	713.5
5	QPSK	1	0	23.57	23.64	23.35
5	QPSK	1	12	23.70	23.69	23.70
5	QPSK	1	24	23.75	23.70	23.45
5	QPSK	12	0	22.12	22.34	22.15
5	QPSK	12	7	22.70	22.14	22.53
5	QPSK	12	13	22.48	22.31	22.38
5	QPSK	25	0	22.20	22.54	22.29
5	16QAM	1	0	22.66	22.40	22.53
5	16QAM	1	12	22.70	22.36	22.21
5	16QAM	1	24	22.02	22.37	22.66
5	16QAM	12	0	21.62	21.55	21.38
5	16QAM	12	7	21.48	21.52	21.67
5	16QAM	12	13	21.58	21.27	21.71
5	16QAM	25	0	21.20	21.50	21.34
LTE Band 17						
BW (MHz)	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)		
				23780	23790	23800
				709	710	711
10	QPSK	1	0	23.89	23.19	23.58
10	QPSK	1	25	23.65	23.60	23.51

10	QPSK	1	49	23.39	23.73	23.46
10	QPSK	25	0	22.23	22.49	22.27
10	QPSK	25	12	22.24	22.53	22.26
10	QPSK	25	25	22.17	22.11	22.27
10	QPSK	50	0	22.13	22.34	22.18
10	16QAM	1	0	22.68	22.59	22.10
10	16QAM	1	25	22.34	22.34	22.30
10	16QAM	1	49	22.71	22.54	22.41
10	16QAM	25	0	21.74	21.56	21.66
10	16QAM	25	12	21.24	21.31	21.42
10	16QAM	25	25	21.77	21.60	21.70
10	16QAM	50	0	21.56	21.58	21.57

LTE BAND 26(824-849)

BW (MHz)	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)		
				26797	26915	27033
				824.7	836.5	848.3
1.4	QPSK	1	0	23.78	23.43	23.38
1.4	QPSK	1	3	23.58	23.62	23.73
1.4	QPSK	1	5	23.83	23.21	23.41
1.4	QPSK	3	0	22.43	22.51	22.71
1.4	QPSK	3	1	22.39	22.79	22.01
1.4	QPSK	3	3	22.46	22.41	22.57
1.4	QPSK	6	0	22.75	22.49	22.75
1.4	16QAM	1	0	22.23	22.31	22.54
1.4	16QAM	1	3	22.65	22.33	22.46
1.4	16QAM	1	5	22.51	22.36	22.42
1.4	16QAM	3	0	21.71	21.47	21.54
1.4	16QAM	3	1	21.61	21.30	21.64
1.4	16QAM	3	3	21.43	21.35	21.54
1.4	16QAM	6	0	21.63	21.64	21.48
BW (MHz)	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)		
				26805	26915	27025
				825.5	836.5	847.5
3	QPSK	1	0	23.98	23.97	23.16
3	QPSK	1	8	23.90	23.81	23.50

3	QPSK	1	14	23.83	23.82	23.78
3	QPSK	8	0	22.50	22.34	22.48
3	QPSK	8	4	22.33	22.70	22.56
3	QPSK	8	7	22.06	22.48	22.57
3	QPSK	15	0	22.43	22.17	22.52
3	16QAM	1	0	22.21	22.58	22.67
3	16QAM	1	8	22.84	22.27	22.61
3	16QAM	1	14	22.42	22.52	22.69
3	16QAM	8	0	21.44	21.29	21.74
3	16QAM	8	4	21.52	21.57	21.71
3	16QAM	8	7	21.79	21.31	21.31
3	16QAM	15	0	21.35	21.70	21.72
BW (MHz)	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)		
				26815	26915	27015
				826.5	836.5	846.5
5	QPSK	1	0	23.41	23.45	23.21
5	QPSK	1	12	23.74	23.86	23.90
5	QPSK	1	24	23.27	23.42	23.76
5	QPSK	12	0	22.43	22.19	22.22
5	QPSK	12	7	22.41	22.10	22.12
5	QPSK	12	13	22.60	22.44	22.68
5	QPSK	25	0	22.45	22.72	22.43
5	16QAM	1	0	22.47	22.42	22.83
5	16QAM	1	12	22.41	22.30	22.70

5	16QAM	1	24	22.78	22.18	22.22
5	16QAM	12	0	21.36	21.68	21.43
5	16QAM	12	7	21.54	21.77	21.54
5	16QAM	12	13	21.59	21.55	21.57
5	16QAM	25	0	21.78	21.65	21.51
BW (MHz)	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)		
				26840	26915	26990
				829	836.5	844
10	QPSK	1	0	23.64	23.83	23.47
10	QPSK	1	25	23.90	23.37	23.71
10	QPSK	1	49	23.83	23.47	23.75
10	QPSK	25	0	22.60	22.30	22.56
10	QPSK	25	12	22.37	22.54	22.23
10	QPSK	25	25	22.33	22.45	22.53
10	QPSK	50	0	22.21	22.97	22.41
10	16QAM	1	0	22.25	21.92	22.72
10	16QAM	1	25	22.47	22.26	22.15
10	16QAM	1	49	22.31	22.86	22.69
10	16QAM	25	0	21.50	21.68	21.43
10	16QAM	25	12	21.57	21.75	21.60
10	16QAM	25	25	21.49	21.40	21.55
10	16QAM	50	0	21.73	21.70	21.77
BW (MHz)	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)		
				26865	26915	26965

				831.5	836.5	841.5
15	QPSK	1	0	23.53	23.70	23.71
15	QPSK	1	37	23.77	23.00	23.93
15	QPSK	1	74	23.66	23.44	23.73
15	QPSK	36	0	22.16	22.48	22.56
15	QPSK	36	20	22.42	22.37	22.46
15	QPSK	36	39	22.06	22.55	22.32
15	QPSK	75	0	22.44	22.22	22.59
15	16QAM	1	0	22.44	22.61	22.52
15	16QAM	1	37	22.38	22.54	22.36
15	16QAM	1	74	22.45	22.64	22.68
15	16QAM	36	0	21.43	21.44	21.81
15	16QAM	36	20	21.36	21.49	21.43
15	16QAM	36	39	21.49	21.74	21.69
15	16QAM	75	0	21.22	21.51	21.47

LTE BAND 26(814-824)

BW (MHz)	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)		
				26697	26740	26783
				814.7	819	823.3
1.4	QPSK	1	0	23.87	23.17	23.43
1.4	QPSK	1	3	23.68	23.60	23.70
1.4	QPSK	1	5	23.74	23.83	23.93
1.4	QPSK	3	0	22.20	22.21	22.41
1.4	QPSK	3	1	22.10	22.33	21.91
1.4	QPSK	3	3	22.41	22.03	22.20
1.4	QPSK	6	0	22.12	22.13	22.50
1.4	16QAM	1	0	22.24	22.50	22.61
1.4	16QAM	1	3	22.27	22.42	22.37
1.4	16QAM	1	5	22.08	22.12	22.52
1.4	16QAM	3	0	21.53	21.21	21.60
1.4	16QAM	3	1	21.46	21.52	21.40
1.4	16QAM	3	3	21.56	21.24	21.40
1.4	16QAM	6	0	21.57	21.67	21.61
BW (MHz)	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)		
				26705	26740	26775
				815.5	819	822.5
3	QPSK	1	0	23.30	23.66	23.58
3	QPSK	1	8	23.09	23.61	23.14
3	QPSK	1	14	23.52	23.73	23.36

3	QPSK	8	0	22.50	22.39	22.21
3	QPSK	8	4	22.23	22.42	22.44
3	QPSK	8	7	22.43	22.28	22.06
3	QPSK	15	0	22.09	22.34	22.32
3	16QAM	1	0	22.42	22.33	22.23
3	16QAM	1	8	22.31	22.55	22.36
3	16QAM	1	14	22.11	22.37	22.53
3	16QAM	8	0	21.20	21.25	21.09
3	16QAM	8	4	21.27	21.25	21.53
3	16QAM	8	7	21.30	21.28	21.37
3	16QAM	15	0	21.32	21.26	21.23
BW (MHz)	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)		
				26715	26740	26765
				816.5	819	821.5
5	QPSK	1	0	23.62	23.74	23.24
5	QPSK	1	12	23.30	23.61	23.27
5	QPSK	1	24	23.59	23.59	23.62
5	QPSK	12	0	22.30	22.32	22.04
5	QPSK	12	7	22.51	22.16	22.56
5	QPSK	12	13	22.39	22.48	22.38
5	QPSK	25	0	22.45	22.37	22.07
5	16QAM	1	0	22.46	22.09	22.21
5	16QAM	1	12	22.38	22.10	22.41
5	16QAM	1	24	22.28	22.45	22.17

5	16QAM	12	0	21.21	21.45	21.55
5	16QAM	12	7	21.45	21.43	21.41
5	16QAM	12	13	21.59	21.61	21.41
5	16QAM	25	0	21.48	21.56	21.78
BW (MHz)	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)		
				/	26740	/
				/	819	/
10	QPSK	1	0	/	23.13	/
10	QPSK	1	25	/	23.56	/
10	QPSK	1	49	/	23.45	/
10	QPSK	25	0	/	22.51	/
10	QPSK	25	12	/	22.39	/
10	QPSK	25	25	/	22.48	/
10	QPSK	50	0	/	22.15	/
10	16QAM	1	0	/	22.35	/
10	16QAM	1	25	/	22.49	/
10	16QAM	1	49	/	22.04	/
10	16QAM	25	0	/	21.30	/
10	16QAM	25	12	/	21.62	/
10	16QAM	25	25	/	21.34	/
10	16QAM	50	0	/	21.48	/

LTE BAND 38

BW (MHz)	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)		
				37775	38000	38225
				2572.5	2595	2617.5
5	QPSK	1	0	23.24	23.45	23.27
5	QPSK	1	12	23.70	23.81	22.99
5	QPSK	1	24	23.33	23.22	23.18
5	QPSK	12	0	22.50	22.19	22.04
5	QPSK	12	7	22.38	22.29	22.21
5	QPSK	12	13	22.03	22.43	22.13
5	QPSK	25	0	22.43	22.43	22.59
5	16QAM	1	0	22.32	22.25	22.43
5	16QAM	1	12	22.11	22.22	22.29
5	16QAM	1	24	22.60	22.12	21.98
5	16QAM	12	0	21.37	21.36	21.65
5	16QAM	12	7	21.60	21.48	21.45
5	16QAM	12	13	21.53	21.29	21.57
5	16QAM	25	0	21.41	21.29	21.49
BW (MHz)	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)		
				37800	38000	38200
				2575	2595	2615
10	QPSK	1	0	23.19	23.57	23.28
10	QPSK	1	25	23.51	23.85	23.22
10	QPSK	1	49	23.54	23.36	23.35

10	QPSK	25	0	22.67	22.35	22.16
10	QPSK	25	12	22.34	22.30	22.38
10	QPSK	25	25	22.04	22.42	22.14
10	QPSK	50	0	22.59	22.48	22.46
10	16QAM	1	0	22.41	22.40	22.41
10	16QAM	1	25	22.25	22.00	22.29
10	16QAM	1	49	22.61	22.12	22.17
10	16QAM	25	0	21.39	21.26	21.69
10	16QAM	25	12	21.36	21.43	21.18
10	16QAM	25	25	21.55	21.33	21.66
10	16QAM	50	0	21.33	21.19	21.47
BW (MHz)	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)		
				37825	38000	38175
				2577.5	2595	2612.5
15	QPSK	1	0	23.36	23.63	23.49
15	QPSK	1	37	23.46	23.04	23.28
15	QPSK	1	74	23.11	23.04	23.51
15	QPSK	36	0	22.32	22.08	22.37
15	QPSK	36	20	22.12	22.26	22.1
15	QPSK	36	39	22.44	22.23	22.03
15	QPSK	75	0	22.34	22.01	22.31
15	16QAM	1	0	22.33	22.42	22.4
15	16QAM	1	37	22.17	22.05	22.12
15	16QAM	1	74	22.16	22.29	22.05

15	16QAM	36	0	21.37	21.39	21.44
15	16QAM	36	20	21.45	21.29	21.15
15	16QAM	36	39	21.29	21.48	21.21
15	16QAM	75	0	21.31	21.25	21.38
BW (MHz)	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)		
				37850	38000	38150
				2580	2595	2610
20	QPSK	1	0	23.33	23.40	23.35
20	QPSK	1	49	23.39	23.87	22.99
20	QPSK	1	99	23.36	23.39	23.16
20	QPSK	50	0	22.62	22.19	22.14
20	QPSK	50	24	22.45	22.37	22.39
20	QPSK	50	50	22.02	22.47	22.19
20	QPSK	100	0	22.51	22.36	22.31
20	16QAM	1	0	22.40	22.36	22.54
20	16QAM	1	49	22.25	22.03	22.28
20	16QAM	1	99	22.62	22.27	22.15
20	16QAM	50	0	21.39	21.32	21.78
20	16QAM	50	24	21.56	21.34	21.42
20	16QAM	50	50	21.51	21.41	21.49
20	16QAM	100	0	21.22	21.19	21.47

LTE BAND 41

BW (MHz)	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)				
				39675	40148	40620	41093	51565
				2498.5	2545.8	2593	2640.3	2687.5
5	QPSK	1	0	23.45	23.95	23.75	23.87	23.67
5	QPSK	1	12	23.84	23.68	23.78	23.27	23.29
5	QPSK	1	24	23.86	23.73	23.64	23.85	23.72
5	QPSK	12	0	22.25	22.06	22.26	22.23	22.37
5	QPSK	12	7	22.32	22.08	22.11	22.12	22.30
5	QPSK	12	13	22.05	22.41	22.48	22.21	22.50
5	QPSK	25	0	22.17	22.25	22.08	22.33	22.56
5	16QAM	1	0	22.46	22.24	22.28	22.21	22.28
5	16QAM	1	12	22.27	21.94	22.25	22.05	22.07
5	16QAM	1	24	22.25	22.19	22.29	22.17	22.04
5	16QAM	12	0	21.23	21.11	21.45	21.47	21.48
5	16QAM	12	7	21.27	21.39	21.64	21.28	21.47
5	16QAM	12	13	21.30	21.25	21.24	21.21	21.22
BW (MHz)	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)				
				39700	40160	40620	41080	41540
				2501	2547	2593	2639	2685
10	QPSK	1	0	23.44	23.38	23.56	23.25	23.23
10	QPSK	1	25	23.79	23.68	23.75	23.77	23.72
10	QPSK	1	49	23.24	23.28	23.53	23.82	23.87
10	QPSK	25	0	22.14	22.37	22.27	22.26	22.08

10	QPSK	25	12	22.28	22.16	22.46	22.54	22.48
10	QPSK	25	25	22.04	22.16	22.08	22.40	22.49
10	QPSK	50	0	22.28	22.17	22.10	22.35	22.50
10	16QAM	1	0	22.61	22.34	22.55	22.18	22.06
10	16QAM	1	25	22.17	22.20	22.54	22.37	22.43
10	16QAM	1	49	22.56	22.34	22.28	22.05	22.12
10	16QAM	25	0	21.40	21.38	21.66	21.39	21.34
10	16QAM	25	12	21.41	21.54	21.52	21.39	21.42
10	16QAM	25	25	21.18	21.46	21.34	21.37	21.34
10	16QAM	50	0	21.50	21.54	21.67	21.32	21.12
BW (MHz)	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)				
				39725	40173	40620	41068	41515
				2503.5	2548.5	2593	2637.8	2682.5
15	QPSK	1	0	23.72	23.63	23.75	23.53	23.28
15	QPSK	1	37	23.18	23.57	23.38	23.20	23.15
15	QPSK	1	74	23.15	23.39	23.50	23.76	23.89
15	QPSK	36	0	22.13	22.16	22.19	22.28	22.24
15	QPSK	36	20	22.00	22.06	22.01	22.02	22.37
15	QPSK	36	39	21.98	22.00	22.17	22.20	22.22
15	QPSK	75	0	22.44	22.21	22.23	22.13	22.36
15	16QAM	1	0	22.47	22.24	22.29	22.14	22.02
15	16QAM	1	37	22.27	22.38	22.17	22.19	22.63
15	16QAM	1	74	22.27	22.07	22.23	22.06	22.16
15	16QAM	36	0	21.41	21.50	21.55	21.40	21.37

15	16QAM	36	20	21.20	21.28	21.58	21.56	21.66
15	16QAM	36	39	21.45	21.35	21.28	21.44	21.43
15	16QAM	75	0	21.28	21.45	21.70	21.44	21.60
BW (MHz)	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)				
				39750	40185	40620	41055	41490
				2506	2549.5	2593	2636.5	2680
20	QPSK	1	0	23.62	23.37	23.49	23.52	23.50
20	QPSK	1	49	23.65	23.22	23.29	23.19	23.36
20	QPSK	1	99	23.79	23.81	23.76	23.40	23.15
20	QPSK	50	0	22.17	22.24	22.57	22.24	22.48
20	QPSK	50	24	22.08	22.14	22.51	22.30	22.01
20	QPSK	50	50	22.36	22.37	22.24	22.18	22.26
20	QPSK	100	0	22.61	22.18	22.21	22.06	22.20
20	16QAM	1	0	22.45	22.29	22.47	22.18	22.40
20	16QAM	1	49	22.42	22.20	22.30	22.40	22.34
20	16QAM	1	99	22.09	22.04	22.40	22.15	22.21
20	16QAM	50	0	21.67	21.52	21.38	21.31	21.42
20	16QAM	50	24	21.35	21.51	21.57	21.53	21.60
20	16QAM	50	50	21.37	21.33	21.17	21.36	21.30
20	16QAM	100	0	21.31	21.56	21.68	21.43	21.49

LTE BAND 66

BW (MHz)	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)		
				131979	132322	132665
				1710.7	1745	1779.3
1.4	QPSK	1	0	23.60	23.44	23.66
1.4	QPSK	1	3	23.34	23.50	23.65
1.4	QPSK	1	5	23.63	23.37	23.25
1.4	QPSK	3	0	22.07	22.42	22.29
1.4	QPSK	3	1	22.29	22.12	22.33
1.4	QPSK	3	3	22.29	22.38	22.26
1.4	QPSK	6	0	22.01	22.53	22.55
1.4	16QAM	1	0	22.44	22.09	22.25
1.4	16QAM	1	3	22.27	22.52	22.43
1.4	16QAM	1	5	22.47	22.34	22.26
1.4	16QAM	3	0	21.40	21.43	21.21
1.4	16QAM	3	1	21.63	21.58	21.54
1.4	16QAM	3	3	21.51	21.31	21.58
1.4	16QAM	6	0	21.50	21.33	21.56
BW (MHz)	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)		
				131987	132322	132657
				1711.5	1745	1778.5
3	QPSK	1	0	23.53	23.68	23.71
3	QPSK	1	8	23.73	23.70	23.87
3	QPSK	1	14	23.42	23.61	23.36

3	QPSK	8	0	22.08	22.19	22.24
3	QPSK	8	4	22.25	22.39	22.22
3	QPSK	8	7	22.40	22.18	22.32
3	QPSK	15	0	22.12	22.37	22.63
3	16QAM	1	0	22.46	22.21	22.51
3	16QAM	1	8	22.36	22.27	22.07
3	16QAM	1	14	22.40	22.69	22.33
3	16QAM	8	0	21.50	21.57	21.78
3	16QAM	8	4	21.62	21.67	21.24
3	16QAM	8	7	21.42	21.49	21.18
3	16QAM	15	0	21.52	21.25	21.31
BW (MHz)	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)		
				131997	132322	132647
				1712.5	1745	1777.5
5	QPSK	1	0	23.82	23.64	23.45
5	QPSK	1	12	23.19	23.87	23.58
5	QPSK	1	24	23.92	23.49	23.11
5	QPSK	12	0	22.20	22.40	22.17
5	QPSK	12	7	22.19	22.44	22.37
5	QPSK	12	13	22.33	22.24	22.30
5	QPSK	25	0	22.35	22.56	22.42
5	16QAM	1	0	22.45	22.50	22.09
5	16QAM	1	12	22.31	22.18	22.35
5	16QAM	1	24	22.50	22.39	22.24

5	16QAM	12	0	21.38	21.48	21.47
5	16QAM	12	7	21.44	21.42	21.68
5	16QAM	12	13	21.40	21.31	21.47
5	16QAM	25	0	21.45	21.56	21.52
BW (MHz)	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)		
				132022	132322	132622
				1715	1745	1775
10	QPSK	1	0	23.49	23.70	23.49
10	QPSK	1	25	23.95	23.69	23.76
10	QPSK	1	49	23.05	23.59	23.09
10	QPSK	25	0	22.35	22.12	22.44
10	QPSK	25	12	22.58	22.10	22.51
10	QPSK	25	25	22.04	22.27	22.41
10	QPSK	50	0	22.09	22.39	22.18
10	16QAM	1	0	22.36	22.37	22.38
10	16QAM	1	25	22.12	22.23	22.63
10	16QAM	1	49	22.32	22.55	22.15
10	16QAM	25	0	21.30	21.32	21.29
10	16QAM	25	12	21.14	21.20	21.40
10	16QAM	25	25	21.59	21.34	21.36
10	16QAM	50	0	21.53	21.39	21.58
BW (MHz)	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)		
				132047	132322	132597
				1717.5	1745	1772.5

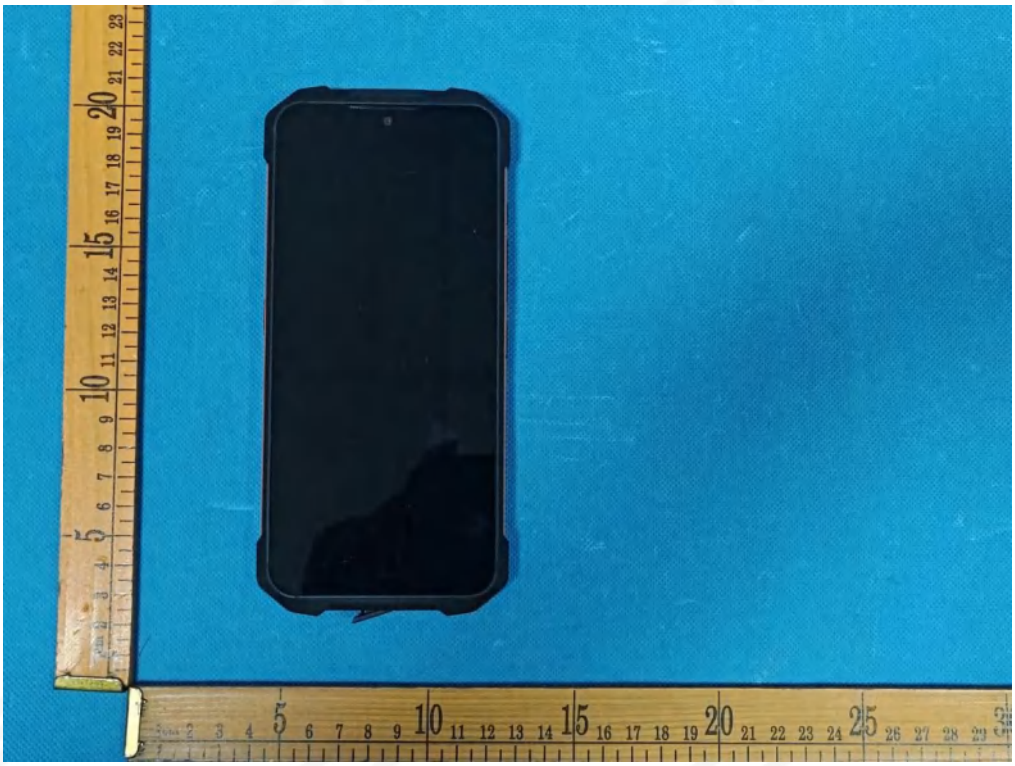
15	QPSK	1	0	23.82	23.74	23.19
15	QPSK	1	37	23.31	23.28	23.71
15	QPSK	1	74	23.40	23.29	23.11
15	QPSK	36	0	22.14	22.45	22.64
15	QPSK	36	20	22.03	22.37	22.37
15	QPSK	36	39	22.61	22.18	22.49
15	QPSK	75	0	22.48	22.56	22.50
15	16QAM	1	0	21.94	22.25	22.05
15	16QAM	1	37	22.50	22.12	22.23
15	16QAM	1	74	22.39	22.05	22.08
15	16QAM	36	0	21.43	21.36	21.41
15	16QAM	36	20	21.64	21.71	21.43
15	16QAM	36	39	21.70	21.36	21.64
15	16QAM	75	0	21.45	21.63	21.34
BW (MHz)	Modulation	RB Size	RB Offset	Channel/Frequency(MHz)		
				132072	132322	132572
				1720	1745	1770
20	QPSK	1	0	23.59	23.68	23.69
20	QPSK	1	49	23.43	23.02	23.46
20	QPSK	1	99	23.93	23.46	23.36
20	QPSK	50	0	22.25	22.02	22.05
20	QPSK	50	24	22.40	21.97	22.14
20	QPSK	50	50	22.24	22.16	22.25
20	QPSK	100	0	22.43	22.37	22.37

20	16QAM	1	0	22.38	22.58	22.54
20	16QAM	1	49	22.07	22.22	22.53
20	16QAM	1	99	22.17	22.12	22.13
20	16QAM	50	0	21.44	21.46	21.35
20	16QAM	50	24	21.62	21.42	21.69
20	16QAM	50	50	21.63	21.29	21.66
20	16QAM	100	0	21.55	21.41	21.58

11. EUT and Test Setup Photo

11.1 EUT Photo

Front side



Back

side

Top side

Bottom side

Left side

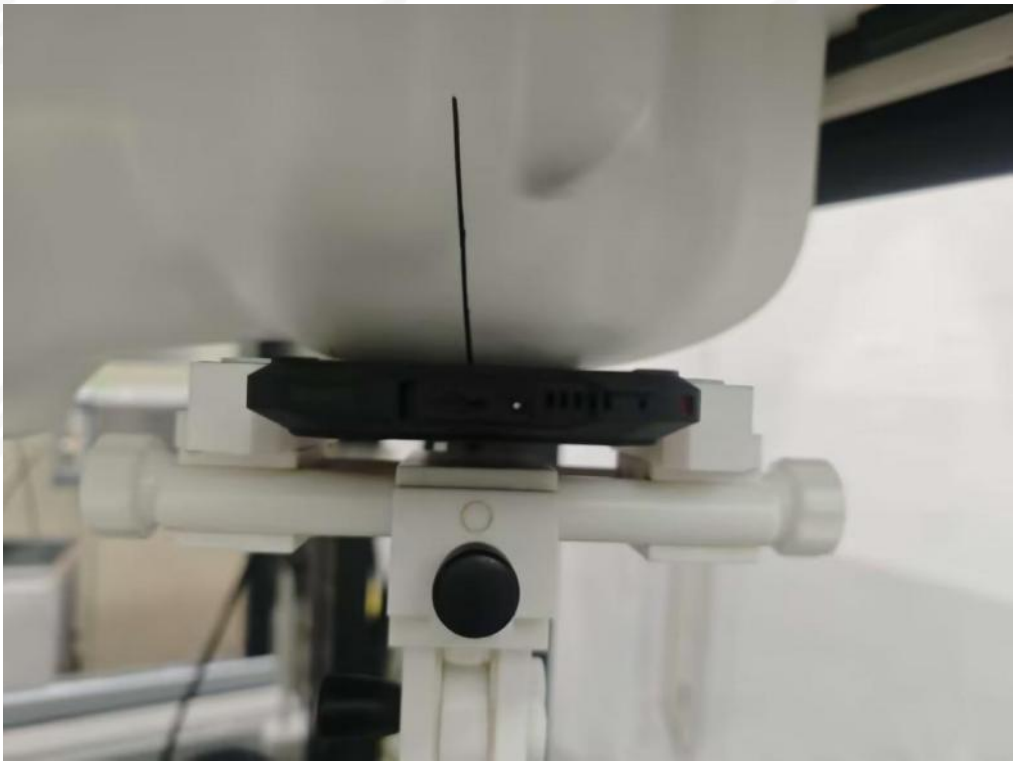
Right side

11.2 Setup Photo

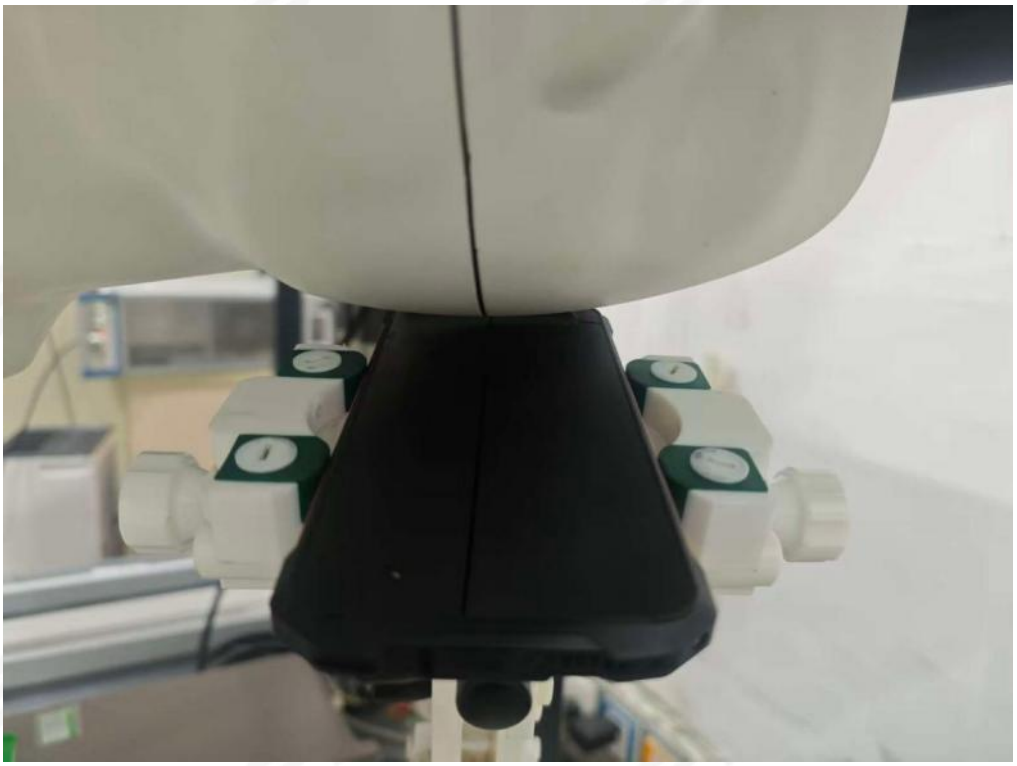
Right Touch

Right Tilt

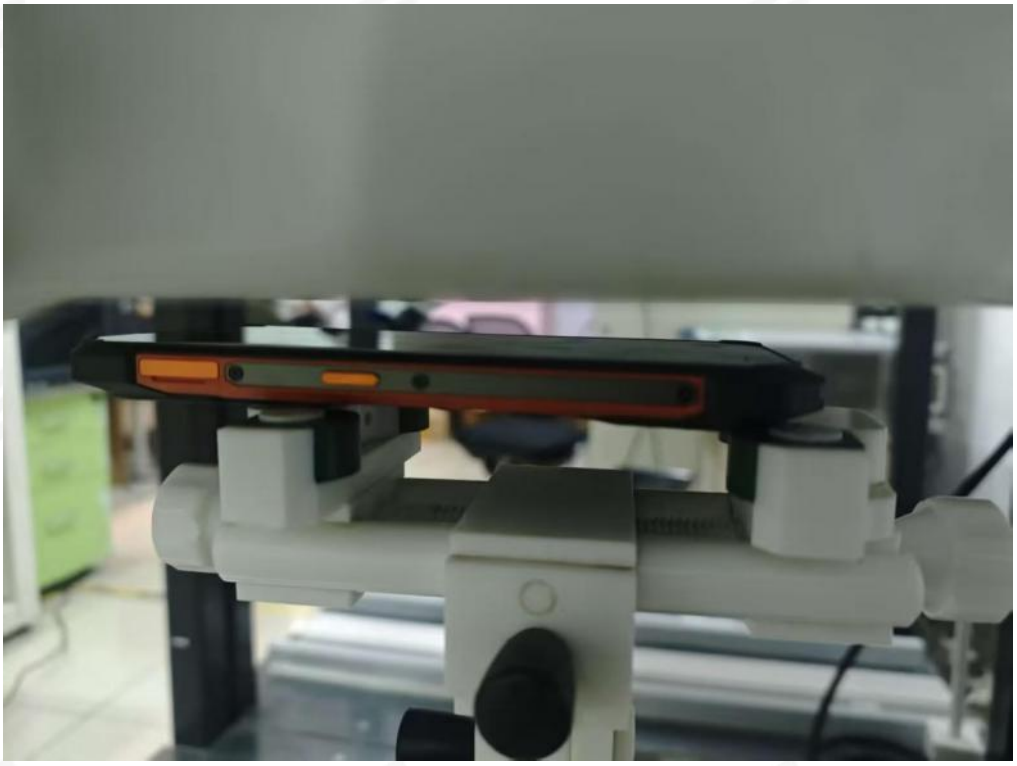
Left Touch



Left Tilt

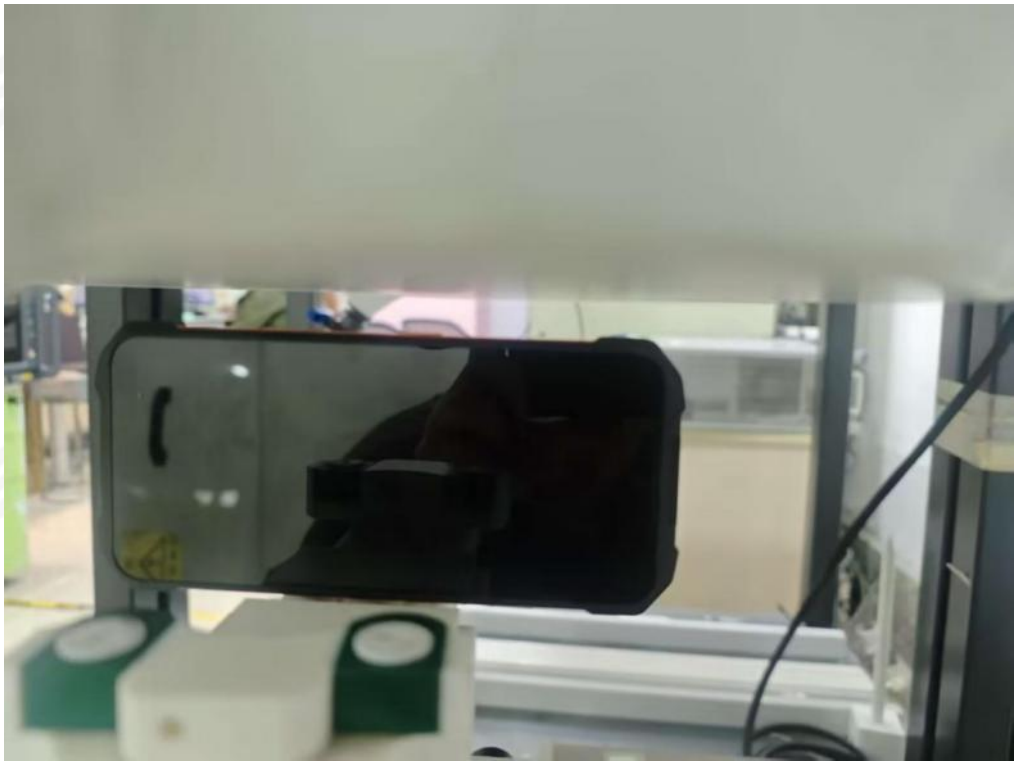


Body Front side(separation distance is 10mm)

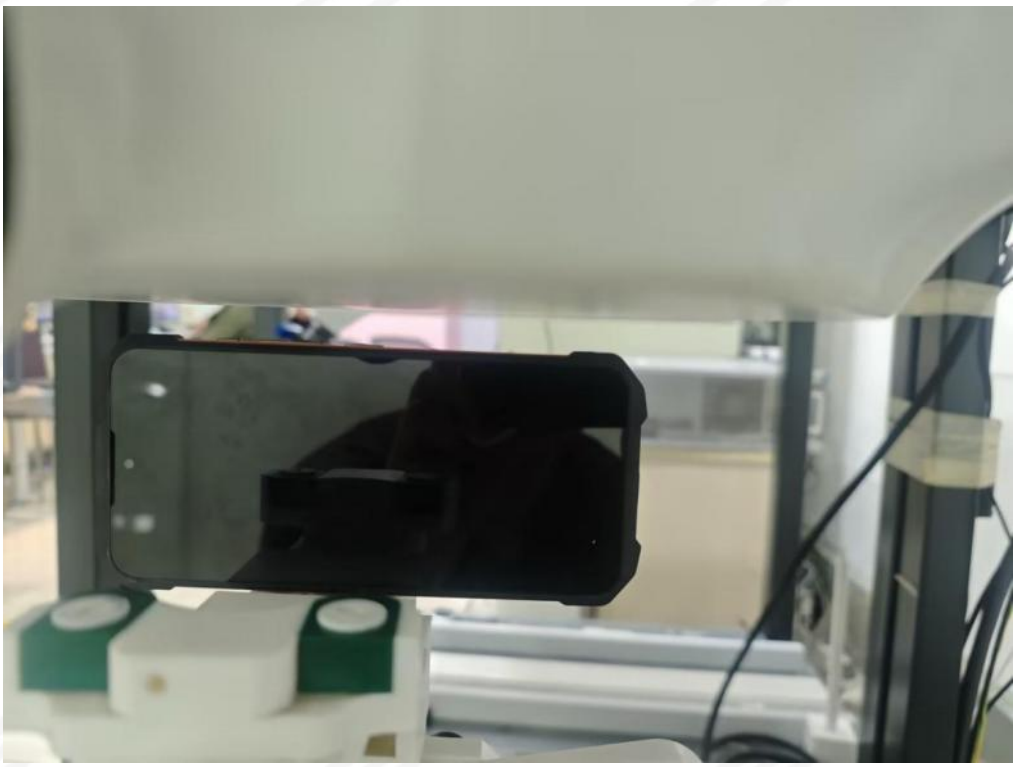


Body Back side(separation distance is 10mm)

Body Left side(separation distance is 10mm)

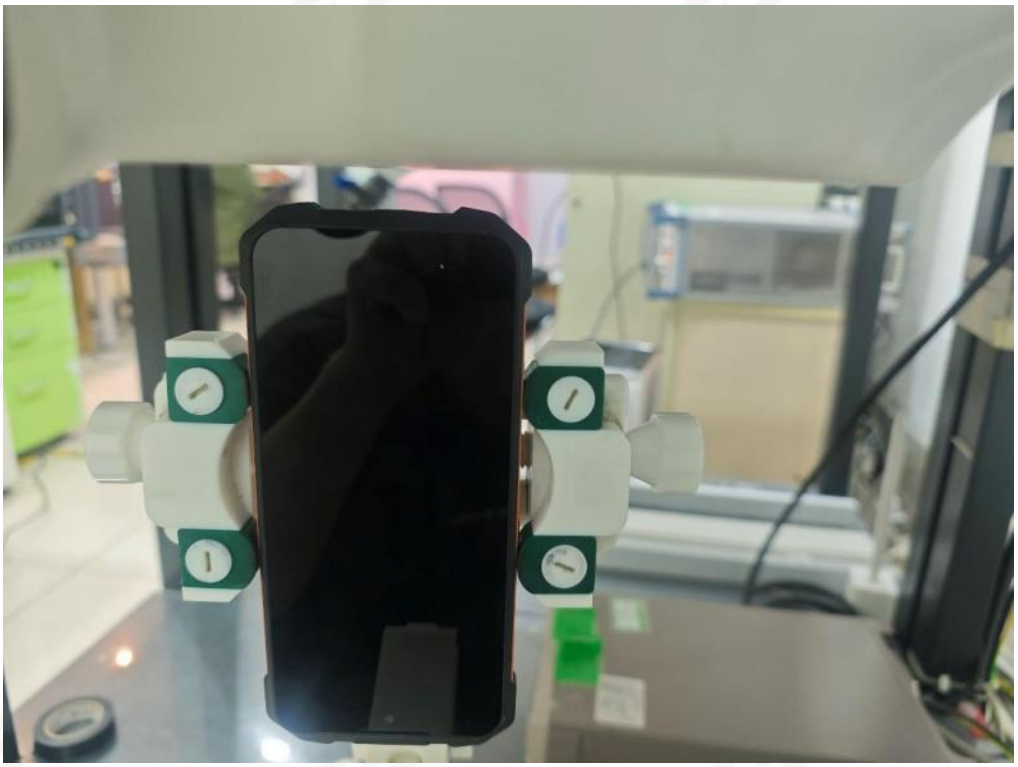


Body Right side(separation distance is 10mm)

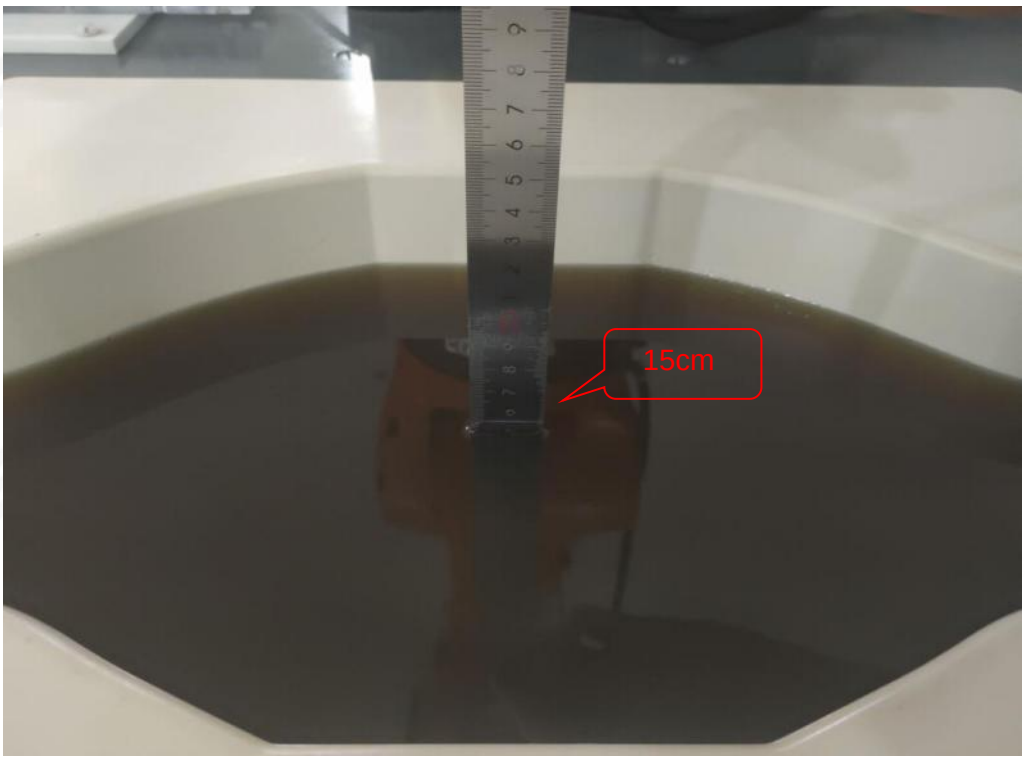


Body Bottom side(separation distance is 10mm)

Body Top side(separation distance is 10mm)



Liquid depth (15 cm)



12. SAR Result Summary

12.1 Head SAR

Band	Model	Test Position	Freq.	SAR (1g) (W/kg)	Power Drift(%)	Max.Turn-up Power(dBm)	Meas.Output Power(dBm)	Scaled SAR (W/Kg)	Meas.No.
GSM850	GSM	Left Cheek	836.6	0.027	0.13	33.00	32.47	0.031	/
		Left Tilt	836.6	0.022	0.16	33.00	32.47	0.025	/
		Right Cheek	836.6	0.032	-0.03	33.00	32.47	**0.036**	**1**
		Right Tilt	836.6	0.026	0.01	33.00	32.47	0.030	/
GSM1900	GSM	Left Cheek	1909.8	0.151	0.10	30.00	29.70	0.162	/
		Left Tilt	1909.8	0.111	0.08	30.00	29.70	0.119	/
		Right Cheek	1909.8	0.200	-0.18	30.00	29.70	**0.214**	**2**
		Right Tilt	1909.8	0.146	-0.09	30.00	29.70	0.156	/
WCDMA Band II	RMC	Left Cheek	1880	0.169	0.05	24.00	23.60	0.185	/
		Left Tilt	1880	0.151	0.05	24.00	23.60	0.166	/
		Right Cheek	1880	0.210	0.14	24.00	23.60	**0.230**	**3**
		Right Tilt	1880	0.175	-0.02	24.00	23.60	0.192	/
WCDMA Band V	RMC	Left Cheek	836.6	0.021	-0.12	24.00	23.71	0.023	/
		Left Tilt	836.6	0.017	0.14	24.00	23.71	0.018	/
		Right Cheek	836.6	0.024	0.11	24.00	23.71	**0.026**	**4**
		Right Tilt	836.6	0.021	0.02	24.00	23.71	0.022	/
WCDMA Band IV	RMC	Left Cheek	1752.4	0.067	-0.1	24.00	23.76	0.071	/
		Left Tilt	1752.4	0.049	0.01	24.00	23.76	0.052	/
		Right Cheek	1752.4	0.080	-0.12	24.00	23.76	**0.085**	**5**
		Right Tilt	1752.4	0.071	0.02	24.00	23.76	0.075	/

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	Left Cheek	1880	0.168	0.15	24.00	23.84	0.174	/
			50	50	Left Cheek	1860	0.143	-0.08	23.00	22.59	0.157	/
			1	0	Left Tilt	1880	0.148	-0.02	24.00	23.84	0.154	/
			50	50	Left Tilt	1860	0.12	0.17	23.00	22.59	0.132	/
			1	0	Right Cheek	1880	0.206	-0.13	24.00	23.84	**0.214**	**6**
			50	50	Right Cheek	1860	0.171	0.12	23.00	22.59	0.188	/
			1	0	Right Tilt	1880	0.163	-0.18	24.00	23.84	0.169	/
			50	50	Right Tilt	1860	0.14	0.02	23.00	22.59	0.154	/
LTE Band 4	20M	QPSK	1	99	Left Cheek	1775	0.074	-0.17	24.00	23.80	0.077	/
			50	50	Left Cheek	1720	0.068	-0.18	23.00	22.52	0.075	/
			1	99	Left Tilt	1775	0.068	-0.1	24.00	23.80	0.071	/
			50	50	Left Tilt	1720	0.053	-0.1	23.00	22.52	0.059	/
			1	99	Right Cheek	1775	0.096	0.19	24.00	23.80	**0.101**	**7**
			50	50	Right Cheek	1720	0.076	0.12	23.00	22.52	0.085	/
			1	99	Right Tilt	1775	0.072	0.09	24.00	23.80	0.076	/
			50	50	Right Tilt	1720	0.064	-0.11	23.00	22.52	0.071	/
LTE Band 5	10M	QPSK	1	0	Left Cheek	829	0.175	0.14	24.00	23.85	0.181	/
			25	25	Left Cheek	836.5	0.148	-0.19	23.00	22.65	0.160	/
			1	0	Left Tilt	829	0.147	0.06	24.00	23.85	0.152	/
			25	25	Left Tilt	836.5	0.125	-0.15	23.00	22.65	0.135	/

			1	0	Right Cheek	829	0.206	-0.01	24.00	23.85	**0.213**	**8**
			25	25	Right Cheek	836.5	0.175	0.14	23.00	22.65	0.190	/
			1	0	Right Tilt	829	0.165	-0.08	24.00	23.85	0.171	/
			25	25	Right Tilt	836.5	0.140	-0.13	23.00	22.65	0.152	/
LTE Band 7	20M	QPSK	1	99	Left Cheek	2510	0.497	-0.15	24.00	23.97	0.500	/
			50	24	Left Cheek	2535	0.344	0.03	23.00	22.69	0.369	/
			1	99	Left Tilt	2510	0.363	-0.04	24.00	23.97	0.366	/
			50	24	Left Tilt	2535	0.288	-0.16	23.00	22.69	0.309	/
			1	99	Right Cheek	2510	0.548	0.01	24.00	23.97	**0.552**	**9**
			50	24	Right Cheek	2535	0.447	-0.13	23.00	22.69	0.480	/
			1	99	Right Tilt	2510	0.490	-0.13	24.00	23.97	0.493	/
			50	24	Right Tilt	2535	0.368	-0.18	23.00	22.69	0.395	/

LTE Band 12	10M	QPSK	1	0	Left Cheek	711	0.176	0.05	24.00	23.89	0.181	/
			25	12	Left Cheek	704	0.142	0.17	23.00	22.46	0.161	/
			1	0	Left Tilt	711	0.145	-0.17	24.00	23.89	0.149	/
			25	12	Left Tilt	704	0.117	-0.16	23.00	22.46	0.132	/
			1	0	Right Cheek	711	0.204	0.02	24.00	23.89	**0.209**	**10**
			25	12	Right Cheek	704	0.170	-0.02	23.00	22.46	0.193	/
			1	0	Right Tilt	711	0.165	0.01	24.00	23.89	0.169	/
			25	12	Right Tilt	704	0.132	-0.1	23.00	22.46	0.149	/
LTE Band 17	10M	QPSK	1	0	Left Cheek	709	0.160	0.01	24.00	23.89	0.164	/
			25	12	Left Cheek	710	0.135	0.02	23.00	22.53	0.150	/
			1	0	Left Tilt	709	0.132	0.13	24.00	23.89	0.135	/

			25	12	Left Tilt	710	0.103	0.14	23.00	22.53	0.115	/
			1	0	Right Cheek	709	0.187	0.03	24.00	23.89	**0.192**	**11**
			25	12	Right Cheek	710	0.153	-0.11	23.00	22.53	0.170	/
			1	0	Right Tilt	709	0.146	-0.16	24.00	23.89	0.150	/
			25	12	Right Tilt	710	0.118	-0.14	23.00	22.53	0.131	/
LTE Band 26	15M	QPSK	1	37	Left Cheek	841.5	0.050	0.15	24.00	23.93	0.050	/
			36	0	Left Cheek	841.5	0.039	-0.12	23.00	22.56	0.043	/
			1	37	Left Tilt	841.5	0.038	0.03	24.00	23.93	0.038	/
			36	0	Left Tilt	841.5	0.031	0.16	23.00	22.56	0.034	/
			1	37	Right Cheek	841.5	0.058	-0.06	24.00	23.93	**0.059**	**12**
			36	0	Right Cheek	841.5	0.045	-0.08	23.00	22.56	0.050	/
			1	37	Right Tilt	841.5	0.045	0.06	24.00	23.93	0.045	/
			36	0	Right Tilt	841.5	0.034	-0.08	23.00	22.56	0.038	/

LTE Band 38	20M	QPSK	1	49	Left Cheek	2595	0.487	-0.13	24.00	23.87	0.502	/
			50	0	Left Cheek	2580	0.328	-0.11	23.00	22.62	0.358	/
			1	0	Left Tilt	2595	0.382	-0.1	24.00	23.87	0.394	/
			50	0	Left Tilt	2580	0.289	0.16	23.00	22.62	0.315	/
			1	0	Right Cheek	2595	0.548	0.13	24.00	23.87	**0.565**	**13**
			50	0	Right Cheek	2580	0.455	0.04	23.00	22.62	0.497	/
			1	0	Right Tilt	2595	0.497	-0.02	24.00	23.87	0.512	/
			50	0	Right Tilt	2580	0.377	0.15	23.00	22.62	0.411	/
	20M	QPSK	1	99	Left Cheek	2549.5	0.277	0.13	24.00	23.81	0.289	/
			50	0	Left Cheek	2593	0.183	-0.13	23.00	22.57	0.202	/

LTE Band 41			1	99	Left Tilt	2549.5	0.205	-0.19	24.00	23.81	0.214	/
			50	0	Left Tilt	2593	0.156	0.1	23.00	22.57	0.172	/
			1	99	Right Cheek	2549.5	0.292	-0.04	24.00	23.81	**0.305**	**14**
			50	0	Right Cheek	2593	0.253	-0.14	23.00	22.57	0.279	/
			1	99	Right Tilt	2549.5	0.263	-0.12	24.00	23.81	0.275	/
			50	0	Right Tilt	2593	0.208	-0.18	23.00	22.57	0.230	/
LTE Band 66	20M	QPSK	1	99	Left Cheek	1720	0.075	0.08	24.00	23.93	0.076	/
			50	24	Left Cheek	1720	0.070	-0.19	23.00	22.40	0.080	/
			1	99	Left Tilt	1720	0.070	-0.04	24.00	23.93	0.071	/
			50	24	Left Tilt	1720	0.057	-0.12	23.00	22.40	0.066	/
			1	99	Right Cheek	1720	0.098	0.02	24.00	23.93	**0.100**	**15**
			50	24	Right Cheek	1720	0.084	-0.11	23.00	22.40	0.097	/
			1	99	Right Tilt	1720	0.075	-0.16	24.00	23.93	0.076	/
			50	24	Right Tilt	1720	0.065	-0.05	23.00	22.40	0.075	/

Band	Model	Test Position	Freq.	SAR (1g) (W/kg)	Power Drift(%)	Max.Turn-up Power(dBm)	Meas.Output Power(dBm)	Scaled SAR (W/Kg)	Meas.No.
2.4G WLAN	802.11b	Left Cheek	2462	0.075	0.09	20.00	19.79	0.079	/
		Left Tilt	2462	0.065	0.12	20.00	19.79	0.068	/
		Right Cheek	2462	0.095	-0.1	20.00	19.79	**0.100**	**16**
		Right Tilt	2462	0.083	0.17	20.00	19.79	0.087	/
5.2G WLAN	802.11a	Left Cheek	5240	0.119	-0.01	13.00	12.35	0.138	/
		Left Tilt	5240	0.105	-0.05	13.00	12.35	0.122	/
		Right Cheek	5240	0.148	0.09	13.00	12.35	**0.172**	**17**
		Right Tilt	5240	0.124	0.16	13.00	12.35	0.144	/
5.8G WLAN	802.11ac80	Left Cheek	5775	0.133	0.09	14.00	13.80	0.139	/
		Left Tilt	5775	0.117	0.12	14.00	13.80	0.123	/
		Right Cheek	5775	0.168	-0.1	14.00	13.80	**0.176**	**18**
		Right Tilt	5775	0.143	0.17	14.00	13.80	0.150	/

Note:

1. Per KDB 447498 D01 v06, the reported SAR is the measured SAR value adjusted for maximum tune-up tolerance.

a. 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.

b. Scaled SAR(W/kg)= Measured SAR(W/kg)*Tune-up Scaling Factor

2. 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 $\leqslant$ 1.2 W/kg. (The highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power was 0.582 W/Kg for Head)

3. Per KDB 865664 D01, Repeated measurement is not required when the original highest measured SAR is <0.80 W/kg

12.2 Body-worn and Hotspot SAR

Band	Model	Test Position	Freq.	SAR (1g) (W/kg)	Power Drift(%)	Max.Turn-up Power(dBm)	Meas.Output Power(dBm)	Scaled SAR (W/Kg)	Meas.No.
GSM850	GPRS Data-2 Slot	Front Side	836.6	0.251	-0.16	32.00	31.96	0.253	/
		Back Side	836.6	0.270	0.11	32.00	31.96	**0.272**	**19**
		Left Side	836.6	0.150	-0.05	32.00	31.96	0.151	/
		Right Side	836.6	0.163	0.19	32.00	31.96	0.165	/
		Bottom Side	836.6	0.223	0.10	32.00	31.96	0.225	/
GSM1900	GPRS Data-3 Slot	Front Side	1909.8	0.091	0.04	27.00	26.99	0.091	/
		Back Side	1909.8	0.115	0.07	27.00	26.99	**0.115**	**20**
		Left Side	1909.8	0.062	-0.11	27.00	26.99	0.062	/
		Right Side	1909.8	0.067	0.02	27.00	26.99	0.067	/
		Bottom Side	1909.8	0.094	-0.03	27.00	26.99	0.095	/
WCDMA Band II	RMC	Front Side	1880	0.144	0.12	24.00	23.60	0.158	/
		Back Side	1880	0.170	0.15	24.00	23.60	**0.186**	**21**
		Left Side	1880	0.097	0.08	24.00	23.60	0.106	/
		Right Side	1880	0.099	0.16	24.00	23.60	0.109	/
		Bottom Side	1880	0.141	-0.12	24.00	23.60	0.155	/
WCDMA Band V	RMC	Front Side	836.6	0.111	0.19	24.00	23.71	0.119	/
		Back Side	836.6	0.114	0.06	24.00	23.71	**0.122**	**22**
		Left Side	836.6	0.067	-0.08	24.00	23.71	0.071	/
		Right Side	836.6	0.073	-0.06	24.00	23.71	0.078	/
		Bottom Side	836.6	0.099	-0.08	24.00	23.71	0.105	/
	RMC	Front Side	1752.4	0.136	-0.19	24.00	23.76	0.144	/

WCDMA Band IV		Back Side	1752.4	0.149	-0.17	24.00	23.76	**0.157**	**23**
		Left Side	1752.4	0.087	0.15	24.00	23.76	0.092	/
		Right Side	1752.4	0.091	0.12	24.00	23.76	0.096	/
		Bottom Side	1752.4	0.128	0.14	24.00	23.76	0.135	/

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	0.383	-0.08	24.00	23.84	0.397	/
			50	50	Front side	1860	0.359	0.04	23.00	22.59	0.395	/
			1	0	Back Side	1880	0.439	0.08	24.00	23.84	**0.455**	**24**
			50	50	Back Side	1860	0.398	0.16	23.00	22.59	0.437	/
			1	0	Left Side	1880	0.224	-0.13	24.00	23.84	0.232	/
			50	50	Left Side	1860	0.191	0.08	23.00	22.59	0.210	/
			1	0	Right Side	1880	0.246	-0.18	24.00	23.84	0.255	/
			50	50	Right Side	1860	0.216	0.05	23.00	22.59	0.237	/
			1	0	Bottom Side	1880	0.334	-0.02	24.00	23.84	0.347	/
			50	50	Bottom Side	1860	0.309	-0.07	23.00	22.59	0.340	/
LTE Band 4	20M	QPSK	1	99	Front side	1745	0.392	0.18	24.00	23.80	0.410	/
			50	50	Front side	1745	0.355	-0.12	23.00	22.52	0.396	/
			1	99	Back Side	1745	0.452	0.16	24.00	23.80	**0.473**	**25**
			50	50	Back Side	1745	0.393	0.12	23.00	22.52	0.439	/
			1	99	Left Side	1745	0.219	0.17	24.00	23.80	0.229	/
			50	50	Left Side	1745	0.202	-0.13	23.00	22.52	0.226	/

			1	99	Right Side	1745	0.249	0.08	24.00	23.80	0.261	/
			50	50	Right Side	1745	0.207	0.02	23.00	22.52	0.231	/
			1	99	Bottom Side	1745	0.343	-0.11	24.00	23.80	0.359	/
			50	50	Bottom Side	1745	0.310	-0.03	23.00	22.52	0.346	/
LTE Band 5	10M	QPSK	1	0	Front side	844	0.164	-0.14	24.00	23.85	0.170	/
			25	25	Front side	844	0.148	0.11	23.00	22.65	0.160	/
			1	0	Back Side	844	0.183	0.01	24.00	23.85	**0.189**	**26**
			25	25	Back Side	844	0.161	-0.1	23.00	22.65	0.175	/
			1	0	Left Side	844	0.087	0.14	24.00	23.85	0.090	/
			25	25	Left Side	844	0.080	0.18	23.00	22.65	0.087	/
			1	0	Right Side	844	0.101	-0.03	24.00	23.85	0.105	/
			25	25	Right Side	844	0.082	0.18	23.00	22.65	0.089	/
			1	0	Bottom Side	844	0.145	0.04	24.00	23.85	0.150	/
			25	25	Bottom Side	844	0.122	-0.02	23.00	22.65	0.132	/
LTE Band 7	10M	QPSK	1	99	Front side	2510	0.573	-0.13	24.00	23.97	0.577	/
			50	24	Front side	2510	0.508	0.19	23.00	22.69	0.546	/
			1	99	Back Side	2510	0.707	0.17	24.00	23.97	**0.712**	**27**
			50	24	Back Side	2510	0.660	0.05	23.00	22.69	0.709	/
			1	99	Left Side	2510	0.360	-0.01	24.00	23.97	0.362	/
			50	24	Left Side	2510	0.317	0.05	23.00	22.69	0.340	/
			1	99	Right Side	2510	0.391	-0.06	24.00	23.97	0.394	/
			50	24	Right Side	2510	0.370	0.16	23.00	22.69	0.397	/
			1	99	Bottom Side	2510	0.604	-0.14	24.00	23.97	0.608	/
			50	24	Bottom Side	2510	0.489	-0.13	23.00	22.69	0.525	/

LTE Band 12	10M	QPSK	1	0	Front side	707.5	0.147	0.05	24.00	23.89	0.151	/
			25	12	Front side	711	0.132	0.17	23.00	22.46	0.149	/
			1	0	Back Side	707.5	0.165	0.01	24.00	23.89	**0.169**	**28**
			25	12	Back Side	711	0.143	0.02	23.00	22.46	0.162	/
			1	0	Left Side	707.5	0.083	-0.08	24.00	23.89	0.085	/
			25	12	Left Side	711	0.075	0.16	23.00	22.46	0.085	/
			1	0	Right Side	707.5	0.087	0.16	24.00	23.89	0.089	/
			25	12	Right Side	711	0.078	-0.11	23.00	22.46	0.088	/
			1	0	Bottom Side	707.5	0.119	-0.05	24.00	23.89	0.122	/
			25	12	Bottom Side	711	0.109	-0.15	23.00	22.46	0.123	/
LTE Band 17	10M	QPSK	1	0	Front side	710	0.165	0.14	24.00	23.89	0.169	/
			25	12	Front side	709	0.146	-0.06	23.00	22.53	0.163	/
			1	0	Back Side	710	0.171	-0.11	24.00	23.89	**0.175**	**29**
			25	12	Back Side	709	0.147	0.18	23.00	22.53	0.164	/
			1	0	Left Side	710	0.088	0.1	24.00	23.89	0.090	/
			25	12	Left Side	709	0.078	-0.09	23.00	22.53	0.087	/
			1	0	Right Side	710	0.094	-0.04	24.00	23.89	0.096	/
			25	12	Right Side	709	0.084	-0.19	23.00	22.53	0.094	/
			1	0	Bottom Side	710	0.134	-0.18	24.00	23.89	0.137	/
			25	12	Bottom Side	709	0.122	-0.02	23.00	22.53	0.136	/
LTE Band 26	15M	QPSK	1	37	Front side	841.5	0.168	0.17	24.00	23.93	0.171	/
			36	0	Front side	841.5	0.145	-0.1	23.00	22.56	0.160	/
			1	37	Back Side	841.5	0.175	-0.08	24.00	23.93	**0.178**	**30**
			36	0	Back Side	841.5	0.150	-0.04	23.00	22.56	0.166	/

			1	37	Left Side	841.5	0.087	0.03	24.00	23.93	0.088	/
			36	0	Left Side	841.5	0.076	-0.09	23.00	22.56	0.084	/
			1	37	Right Side	841.5	0.091	0.14	24.00	23.93	0.092	/
			36	0	Right Side	841.5	0.086	0.07	23.00	22.56	0.095	/
			1	37	Bottom Side	841.5	0.140	-0.07	24.00	23.93	0.142	/
			36	0	Bottom Side	841.5	0.119	0.11	23.00	22.56	0.132	/
LTE Band 38	20M	QPSK	1	49	Front side	2595	0.479	-0.08	24.00	23.87	0.494	/
			50	0	Front side	2580	0.399	0.11	23.00	22.62	0.435	/
			1	49	Back Side	2595	0.586	-0.13	24.00	23.87	**0.604**	**31**
			50	0	Back Side	2580	0.549	-0.14	23.00	22.62	0.599	/
			1	49	Left Side	2595	0.292	0.08	24.00	23.87	0.301	/
			50	0	Left Side	2580	0.261	0.16	23.00	22.62	0.285	/
			1	49	Right Side	2595	0.320	-0.01	24.00	23.87	0.330	/
			50	0	Right Side	2580	0.308	-0.08	23.00	22.62	0.336	/
			1	49	Bottom Side	2595	0.479	0.11	24.00	23.87	0.494	/
			50	0	Bottom Side	2580	0.390	-0.13	23.00	22.62	0.426	/
LTE Band 41	20M	QPSK	1	99	Front side	2593	0.429	0.01	24.00	23.81	0.448	/
			50	0	Front side	2593	0.386	-0.15	23.00	22.57	0.426	/
			1	99	Back Side	2593	0.576	0.14	24.00	23.81	**0.602**	**32**
			50	0	Back Side	2593	0.532	-0.12	23.00	22.57	0.587	/
			1	99	Left Side	2593	0.292	-0.04	24.00	23.81	0.305	/
			50	0	Left Side	2593	0.252	0.15	23.00	22.57	0.278	/
			1	99	Right Side	2593	0.326	-0.06	24.00	23.81	0.341	/

			50	0	Right Side	2593	0.314	0.01	23.00	22.57	0.347	/
			1	99	Bottom Side	2593	0.475	0.08	24.00	23.81	0.496	
			50	0	Bottom Side	2593	0.423	-0.15	23.00	22.57	0.467	/
LTE Band 66	20M	QPSK	1	99	Front side	1720	0.614	0.14	24.00	23.93	0.624	/
			50	24	Front side	1745	0.565	-0.06	23.00	22.40	0.649	/
			1	99	Back Side	1720	0.646	-0.03	24.00	23.93	**0.656**	**33**
			50	24	Back Side	1745	0.570	0.15	23.00	22.40	0.654	/
			1	99	Left Side	1720	0.321	-0.17	24.00	23.93	0.326	/
			50	24	Left Side	1745	0.285	-0.18	23.00	22.40	0.327	/
			1	99	Right Side	1720	0.332	0.16	24.00	23.93	0.337	/
			50	24	Right Side	1745	0.315	0.14	23.00	22.40	0.362	/
			1	99	Bottom Side	1720	0.557	-0.06	24.00	23.93	0.566	/
			50	24	Bottom Side	1745	0.442	0.15	23.00	22.40	0.507	/

Band	Model	Test Position	Freq.	SAR (1g) (W/kg)	Power Drift(%)	Max.Turn-up Power(dBm)	Meas.Output Power(dBm)	Scaled SAR (W/Kg)	Meas.No.
2.4GHz WLAN	802.11b	Front Side	2462	0.23	-0.09	20.00	19.79	0.241	/
		Back Side	2462	0.285	0.05	20.00	19.79	**0.299**	**34**
		Right Side	2462	0.169	-0.09	20.00	19.79	0.177	/
		Top Side	2462	0.185	0.09	20.00	19.79	0.194	/
5.2GHz WLAN	802.11a	Front Side	5240	0.064	0.13	13.00	12.35	0.074	/
		Back Side	5240	0.083	0.15	13.00	12.35	**0.096**	**35**
		Right Side	5240	0.047	-0.13	13.00	12.35	0.055	/
		Top Side	5240	0.053	-0.14	13.00	12.35	0.062	/
5.8GHz WLAN	802.11ac80	Front Side	5775	0.062	0.06	14.00	13.80	0.065	/
		Back Side	5775	0.081	0.12	14.00	13.80	**0.085**	**36**
		Right Side	5775	0.046	-0.12	14.00	13.80	0.048	/
		Top Side	5775	0.052	0.18	14.00	13.80	0.055	/

Note:

1. The test separation of all above table is 10mm.
2. Per KDB 447498 D01 v06, the reported SAR is the measured SAR value adjusted for maximum tune-up tolerance.

   a. 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.

   b. Scaled SAR(W/kg)= Measured SAR(W/kg)*Tune-up Scaling Factor
3. Per KDB 248227 D01 v02r02 Section 5.2.2, the OFDM SAR is scaled from the measured DSSS SAR using the formula: SAR_OFDMScaled = SAR_DSSSMeasured × (P_OFDM_Max / P_DSSS_Max) The scaled SAR value for OFDM is ≤ 1.2 W/kg, so separate SAR testing for OFDM is not required.. (The highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power was **0.566** W/kg for Body)
4. 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.

12.5 Simultaneous Multi-band Transmission Evaluation

Application Simultaneous Transmission information:

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

NOTE:

1. Bluetooth and WLAN can't simultaneous transmission at the same time.
2. For simultaneous transmission at head and body exposure position, 2 transmitters simultaneous transmission was the worst state.
3. Based upon KDB 447498 D01, BT SAR is excluded as below table
4. If the test separation distance is <5mm, 5mm is used for excluded SAR calculation.

Estimated SAR		Maximum Average Power		Dis.	Frequency(GHz)	Stand alone SAR(1&1
		dBm	mW			
BT	Head	4	2.512	5	2.402	0.104
	Body			10	2.402	0.021

Simultaneous Mode	Position	Mode	Max. 1-g SAR (W/kg)	1-g Sum SAR (W/kg)
GSM + 2.4G WLAN	Head	GSM	0.214	0.314
		2.4G WLAN	0.100	
	Body	GSM	0.272	0.571
		2.4G WLAN	0.299	
GSM + Bluetooth	Head	GSM	0.214	0.318
		Bluetooth	0.104	
	Body	GSM	0.272	0.293
		Bluetooth	0.021	
GSM + 5G WLAN	Head	GSM	0.214	0.390
		5G WLAN	0.176	
	Body	GSM	0.272	0.368
		5G WLAN	0.096	
WCDMA + 2.4G WLAN	Head	WCDMA	0.230	0.330
		2.4G WLAN	0.100	
	Body	WCDMA	0.186	0.485
		2.4G WLAN	0.299	
WCDMA + Bluetooth	Head	WCDMA	0.230	0.334
		Bluetooth	0.104	
	Body	WCDMA	0.186	0.207
		Bluetooth	0.021	
WCDMA + 5G WLAN	Head	WCDMA	0.230	0.406
		5G WLAN	0.176	

	Body	WCDMA	0.186	0.282
		5G WLAN	0.096	
LTE + 2.4G WLAN	Head	LTE	0.565	0.665
		2.4G WLAN	0.100	
	Body	LTE	0.712	1.011
		2.4G WLAN	0.299	
LTE + Bluetooth	Head	LTE	0.565	0.669
		Bluetooth	0.104	
	Body	LTE	0.712	0.733
		Bluetooth	0.021	
LTE + 5G WLAN	Head	LTE	0.565	0.741
		5G WLAN	0.176	
	Body	LTE	0.712	0.808
		5G WLAN	0.096	

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
900MHz Dipole	MVG	SID900	5023-DIP0G900-746	2023.12.20	2026.12.19
1800MHz Dipole	MVG	SID1800	5023-DIP1G800-747	2023.12.20	2026.12.19
1900MHz Dipole	MVG	SID1900	SN 30/14 DIP1G900-333	2023.09.14	2026.09.13
2000MHz Dipole	MVG	SID2000	SN 30/14 DIP2G000-334	2023.07.04	2026.07.03
2450MHzDipole	MVG	SID2450	SN 30/14 DIP2G450-335	2023.07.04	2026.07.03
2600MHz Dipole	MVG	SID2600	SN 30/14 DIP2G600-336	2023.07.04	2026.07.03
3500MHz Dipole	MVG	SID3500	SN 08/21 DIP3G 500-553	2024-02-14	2027-02-13
3700MHz Dipole	MVG	SID3700	SN 08/21 DIP3G 700-554	2024-02-14	2027-02-13
Waveguide	MVG	SWG5500	SN 13/14 WGA32	2023.07.04	2026.07.03
E-Field Probe	MVG	SSE2	SN 08/21 EPGO352	2025.09.15	2026.09.14
Dielectric Probe Kit	MVG	SCLMP	SN 32/14 OCPG67	2025.09.15	2026.09.14
Antenna	MVG	ANTA3	SN 07/13 ZNTA52	N/A	N/A
Phantom1	MVG	SAM	SN 32/14 SAM115	N/A	N/A
Phantom3	MVG	SAM	SN 21/21 ELLI48	N/A	N/A
Phone holder	MVG	N/A	SN 32/14 MSH97	N/A	N/A
Laptop holder	MVG	N/A	SN 32/14 LSH29	N/A	N/A
Attenuator	Agilent	HXT-10-8-SMA	240327017	2026.02.04	2027.02.03
Directional coupler	Xi'an Xingbo	XBOH-OA08-20dB	211123-4-3	2026.02.03	2027.02.02
Network Analyzer	Agilent	E5071C	MY46520378	2025-09-26	2026-09-24
Multi Meter	Keithley	Multi Meter 2000	4050073	2025-09-22	2026-09-21
Signal Generator	Agilent	N5182A	MY50140530	2025-09-26	2026-09-25
Wireless Communication Test Set	Agilent	8960-E5515C	MY48360751	2026.02.04	2027.02.03
Wireless Communication Test Set	R&S	CMW500	156324	2025-09-25	2026-09-24
Power Amplifier	DESAY	WCS-DLNA50M8G50G1	CSKJLNA231227A	2025-09-29	2026-09-28
Power Meter	R&S	NRP	100510	2025-09-25	2026-09-24
Power Sensor	R&S	NRP-Z11	101919	2025-09-25	2026-09-24
Power Sensor	Keysight	U2021XA	MY56280002	2025-09-25	2026-09-24
Temperature hygrometer	TOPRIE	TP502V4-P	6700000124198	2025.10.09	2026.10.08
Thermograph	Elitech	RC-4	S/N EF7176501537	2025.10.17	2026.10.16

Appendix A. System Validation Plots

System Performance Check Data (750MHz)

Type: Phone measurement (Complete)

Area scan resolution: dx=15mm, dy=15mm

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

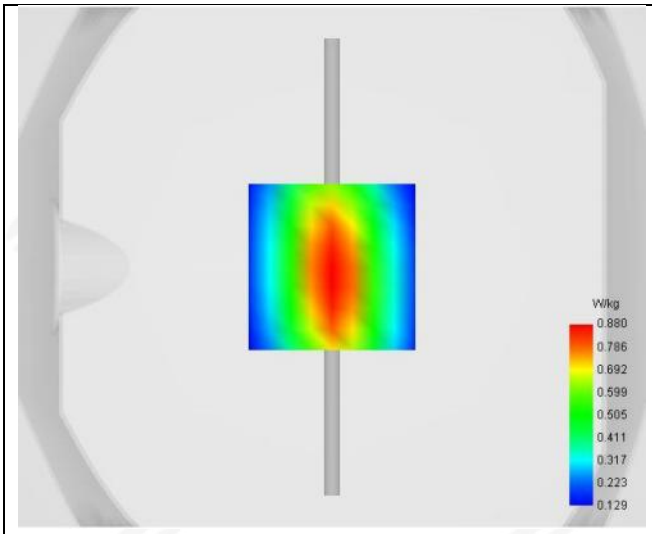
Date of measurement: 2026-05-11

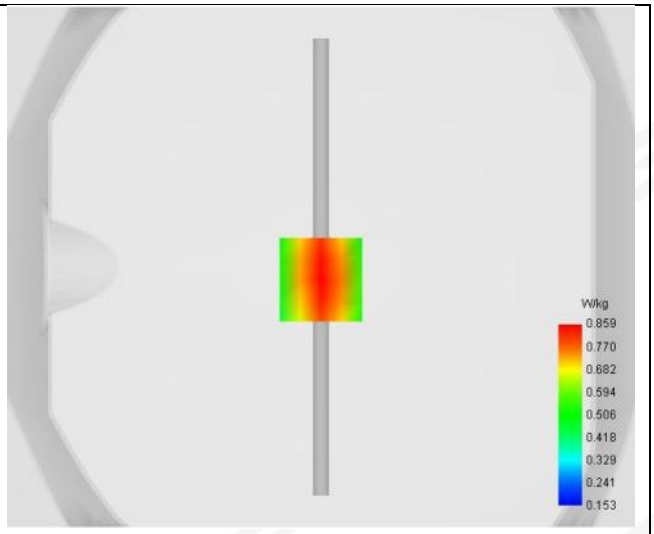
Experimental conditions

Phantom	Validation plane
Device Position	Dipole
Band	750MHz
Channels	Middle
Signal	CW
Frequency (MHz)	750MHz
Relative permittivity	42.05
Conductivity (S/m)	0.91
Probe	SN 08/21 EPGO352
ConvF	1.51
Crest factor	1:1

C. SAR Surface and Volume

SURFACE SAR	VOLUME SAR





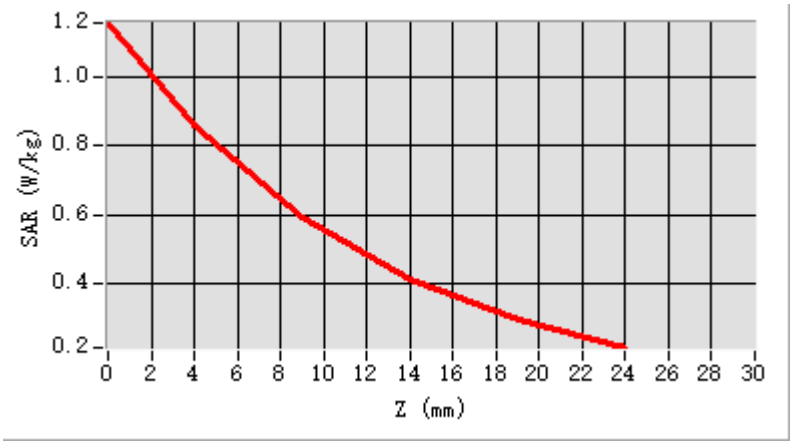
Maximum location: X=0.00, Y=-5.00 ; SAR Peak: 1.16 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.544
SAR 1g (W/Kg)	0.867
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

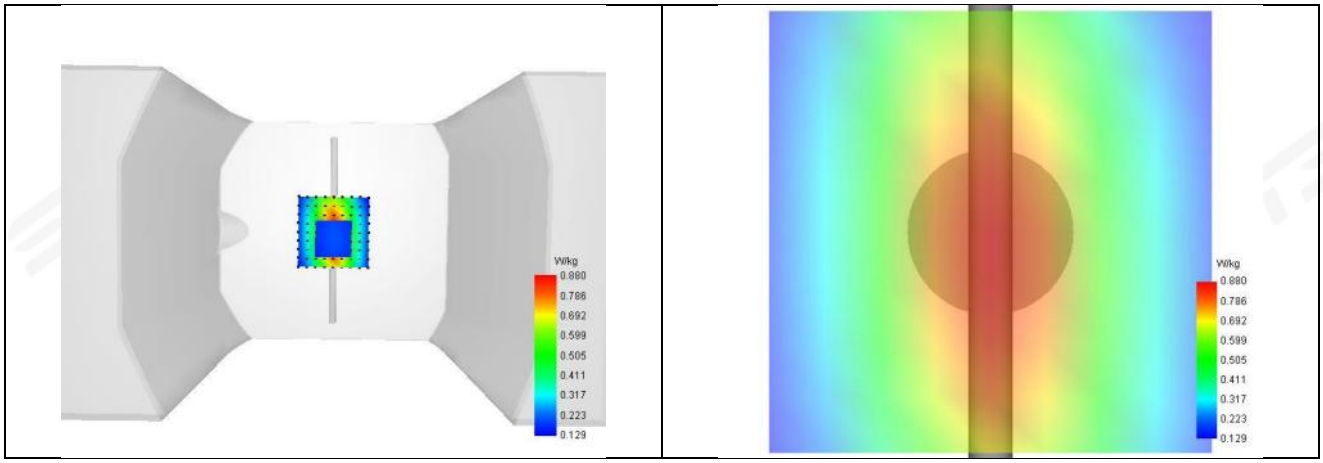
E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	1.160	0.859	0.589	0.412	0.295



F. 3D Image

3D screen shot	Hot spot position


W/kg
0.880
0.786
0.692
0.599
0.505
0.411
0.317
0.223
0.129
W/kg
0.880
0.786
0.692
0.599
0.505
0.411
0.317
0.223
0.129

System Performance Check Data (835MHz)

Type: Phone measurement (Complete)

Area scan resolution: dx=15mm, dy=15mm

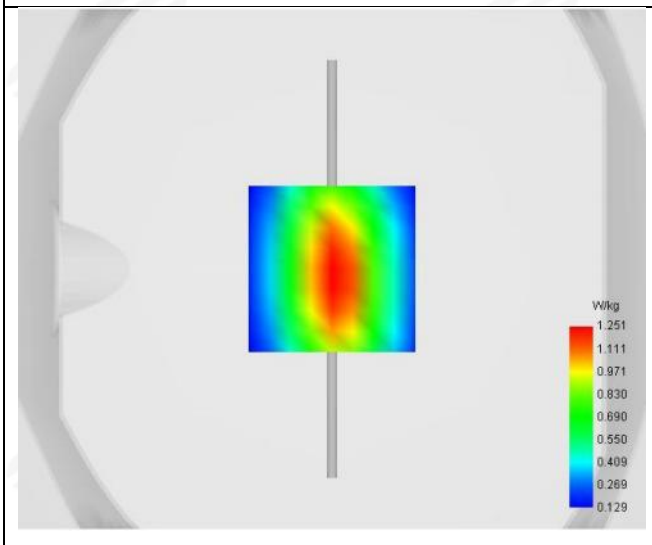
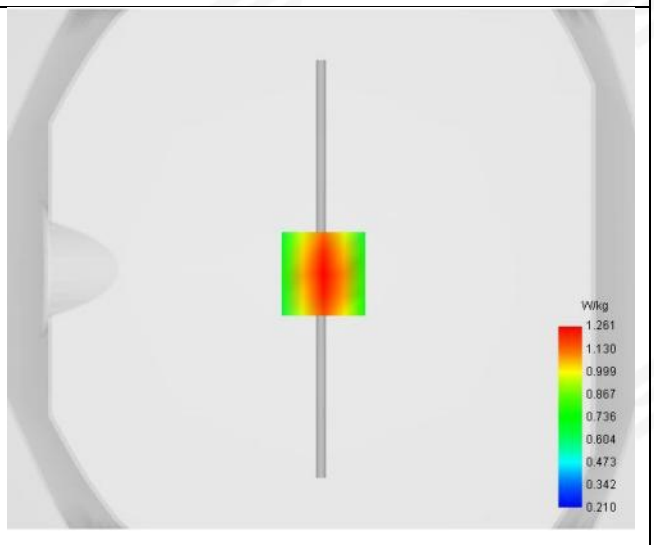
Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 2026-06-07

Experimental conditions

Phantom	Validation plane
Device Position	Dipole
Band	835MHz
Channels	Middle
Signal	CW
Frequency (MHz)	835MHz
Relative permittivity	41.83
Conductivity (S/m)	0.91
Probe	SN 08/21 EPGO352
ConvF	1.49
Crest factor:	1:1

A. SAR Surface and Volume

SURFACE SAR	VOLUME SAR
	

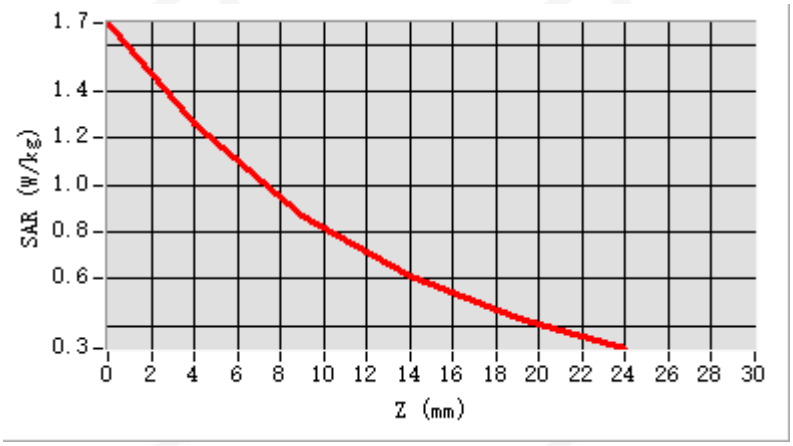
Maximum location: X=1.00, Y=-2.00 ; SAR Peak: 1.69 W/kg

B. SAR 1g & 10g

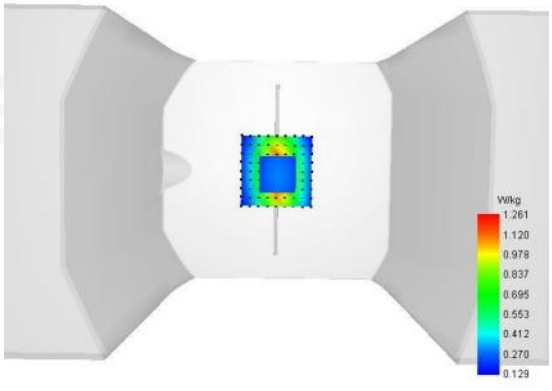
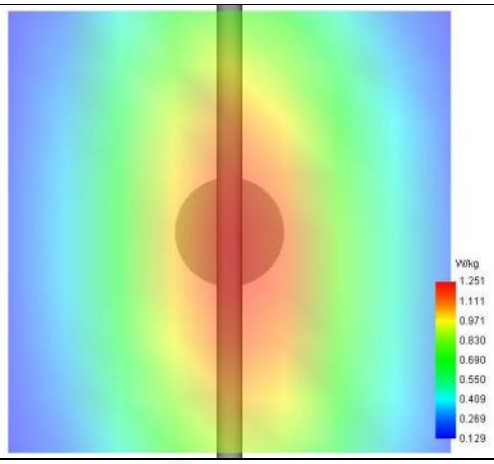
SAR 10g (W/Kg)	0.592
SAR 1g (W/Kg)	0.929
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

C. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	1.692	1.261	0.871	0.608	0.432



D. 3D Image

3D screen shot	Hot spot position
	

System Performance Check Data(1800MHz)

Type: Phone measurement (Complete)

Area scan resolution: dx=15mm, dy=15mm

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

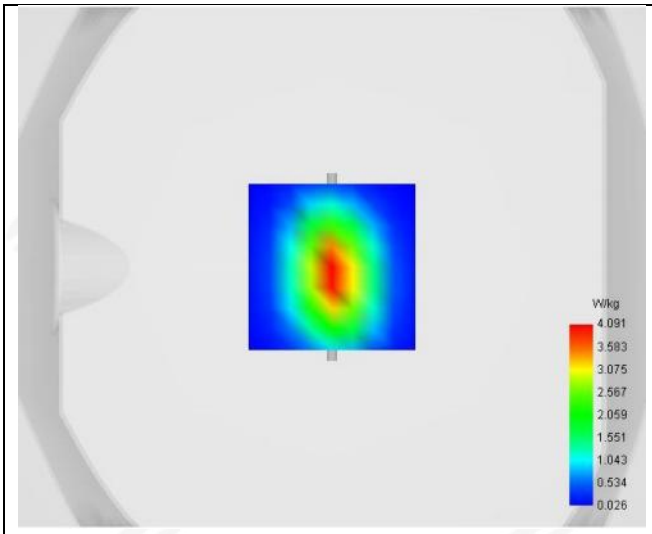
Date of measurement: 2026-06-08

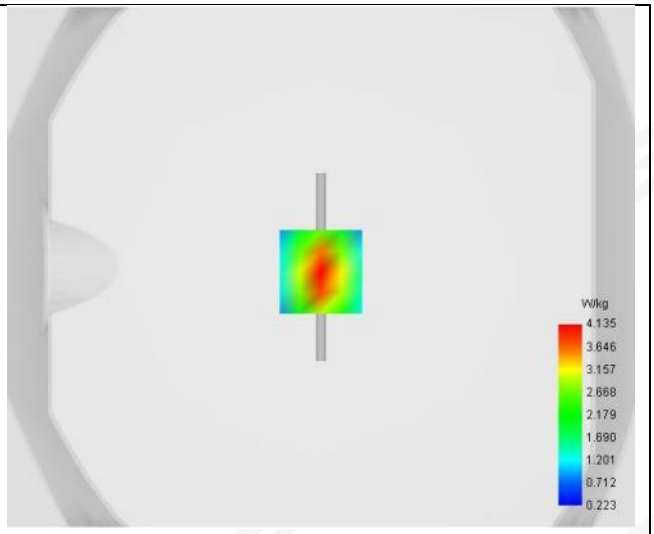
Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	1800MHz
Channels	Middle
Signal	CW
Frequency (MHz)	1800MHz
Relative permittivity	40.35
Conductivity (S/m)	1.41
Probe	SN 08/21 EPGO352
ConvF	1.54
Crest factor:	1:1

A. SAR Surface and Volume

SURFACE SAR	VOLUME SAR





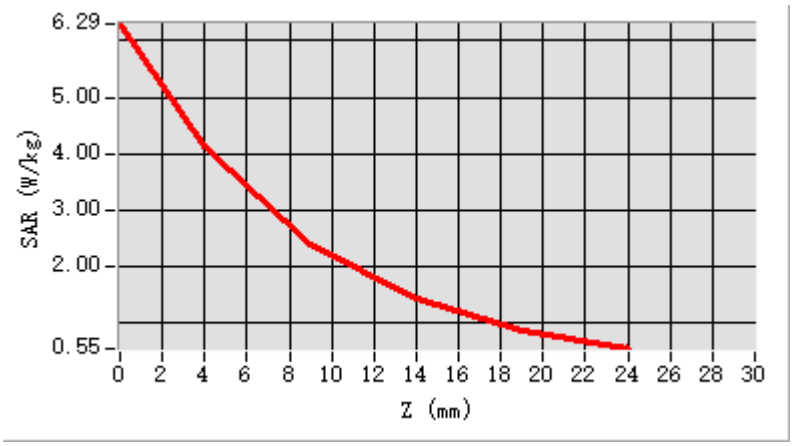
Maximum location: X=0.00, Y=-2.00 ; SAR Peak: 6.30 W/kg

B. SAR 1g & 10g

SAR 10g (W/Kg)	1.988
SAR 1g (W/Kg)	3.843
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

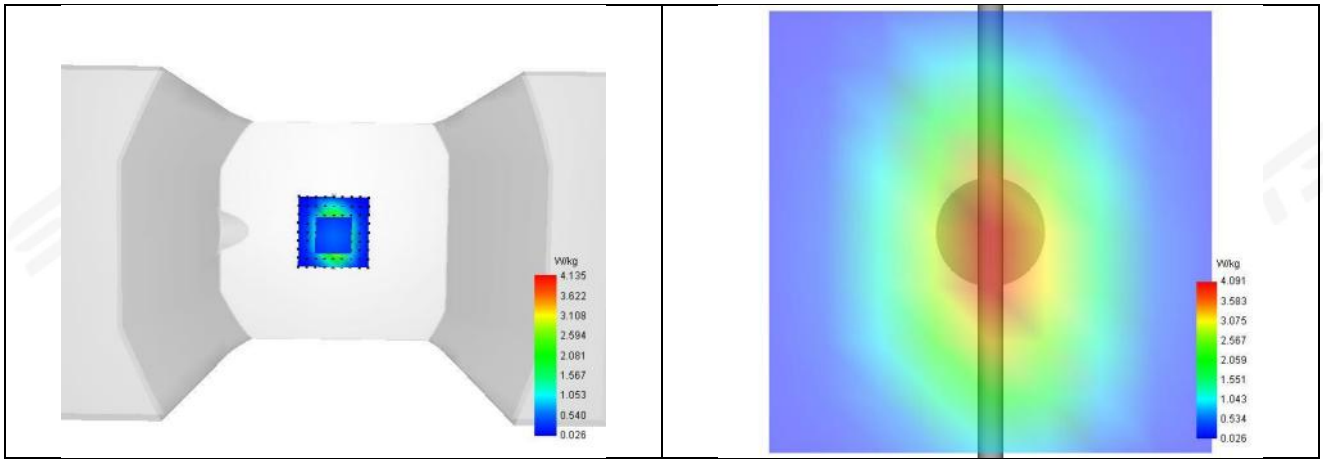
C. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	6.295	4.135	2.406	1.423	0.886



D. 3D Image

3D screen shot	Hot spot position


W/kg
4.135
3.622
3.108
2.594
2.081
1.567
1.053
0.540
0.026
W/kg
4.091
3.583
3.075
2.567
2.059
1.551
1.043
0.534
0.026

System Performance Check Data (1900MHz)

Type: Phone measurement (Complete)

Area scan resolution: dx=15mm, dy=15mm

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

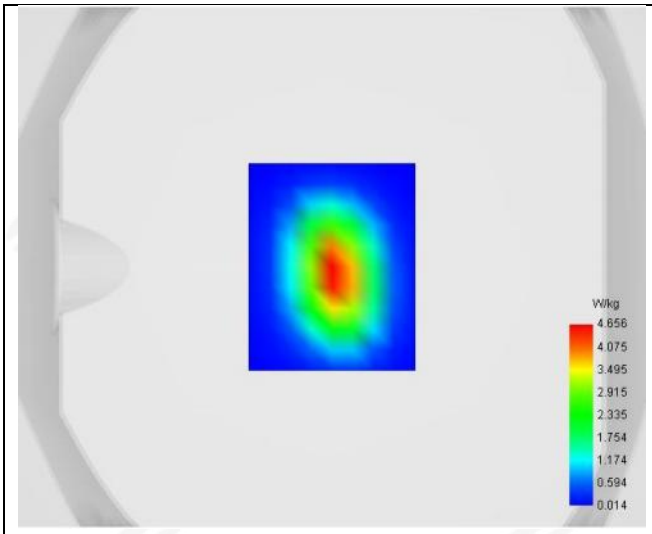
Date of measurement: 2026-06-09

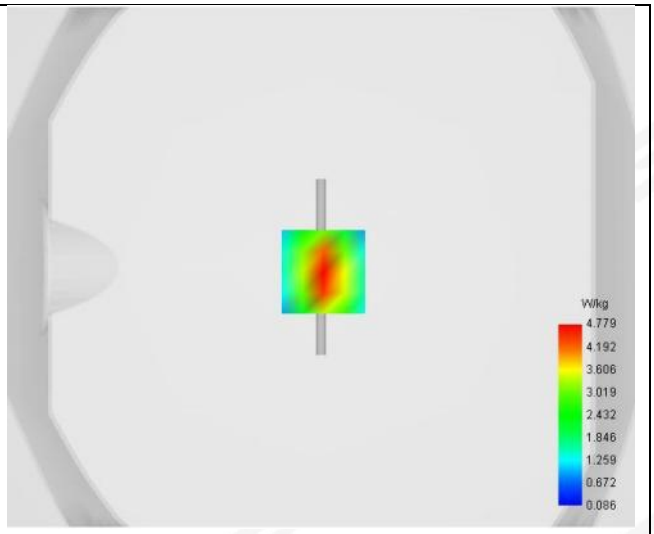
Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	1900MHz
Channels	Middle
Signal	CW
Frequency (MHz)	1900MHz
Relative permittivity	40.86
Conductivity (S/m)	1.40
Probe	SN 08/21 EPGO352
ConvF	1.73
Crest factor:	1:1

A. SAR Surface and Volume

SURFACE SAR	VOLUME SAR





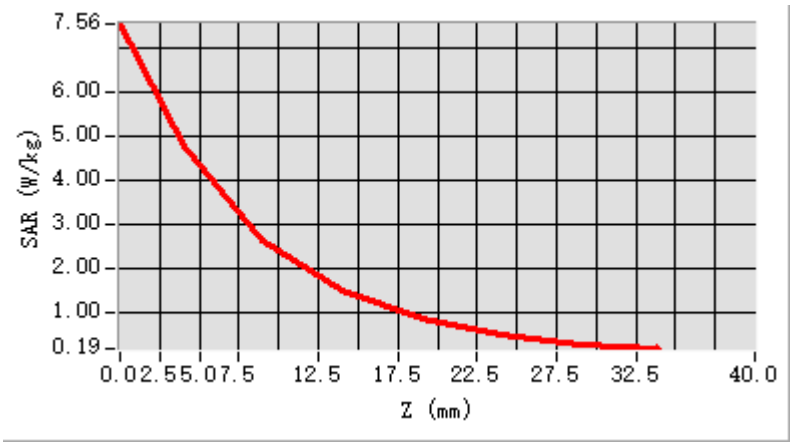
Maximum location: X=1.00, Y=-2.00 ; SAR Peak: 7.51 W/kg

B. SAR 1g & 10g

SAR 10g (W/Kg)	3.020
SAR 1g (W/Kg)	3.971
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	55.440766

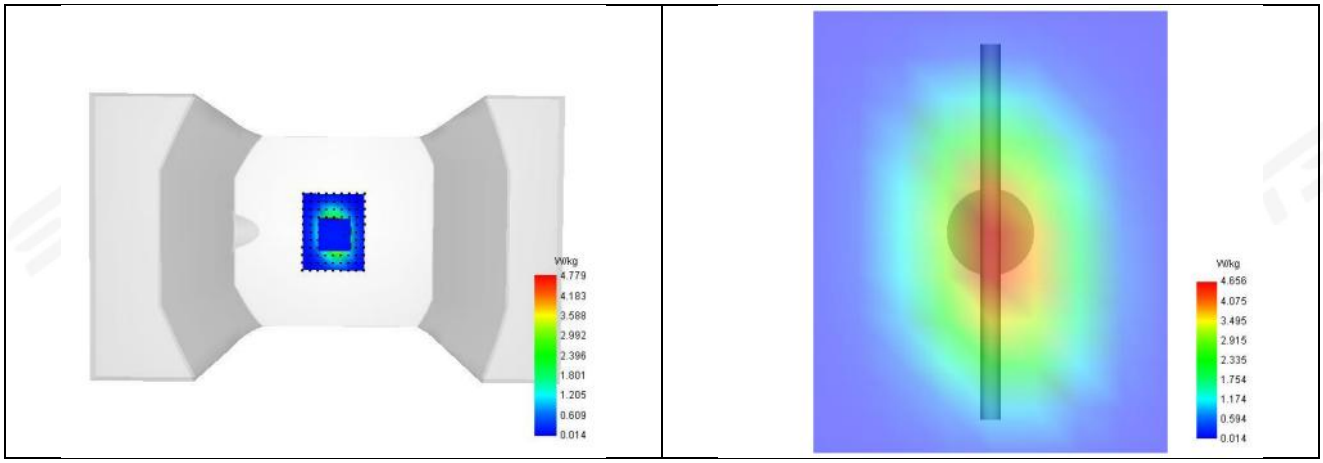
C. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	7.562	4.779	2.649	1.520	0.896	0.516	0.297



D. 3D Image

3D screen shot	Hot spot position


W/kg
4.779
4.183
3.588
2.992
2.396
1.801
1.205
0.609
0.014
W/kg
4.656
4.075
3.495
2.915
2.335
1.754
1.174
0.594
0.014

System Performance Check Data (2450MHz)

Type: Phone measurement (Complete)

Area scan resolution: dx=12mm, dy=12mm

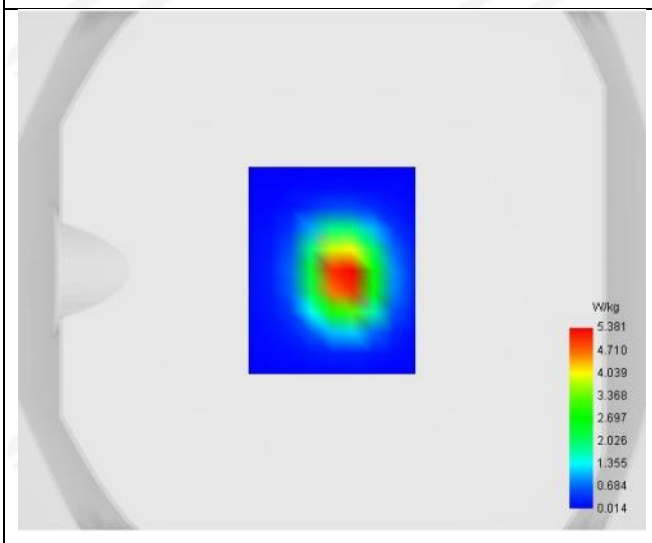
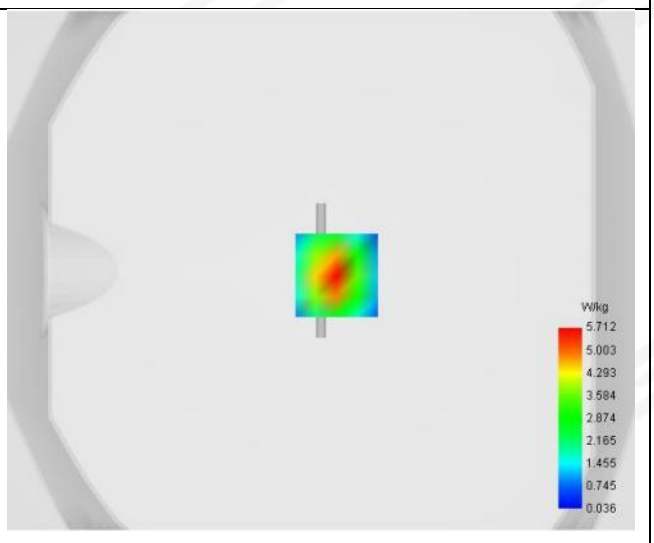
Zoom scan resolution: dx=5mm, dy=5mm, dz=5mm

Date of measurement: 2026-06-09

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	2450MHz
Channels	Middle
Signal	CW
Frequency (MHz)	2450
Relative permittivity	39.08
Conductivity (S/m)	1.79
Probe	SN 08/21 EPGO352
ConvF	1.82
Crest factor:	1:1

A. SAR Surface and Volume

SURFACE SAR	VOLUME SAR
	

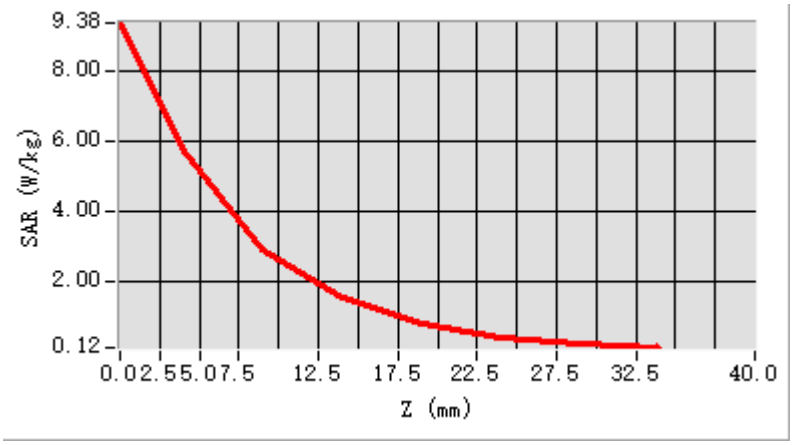
Maximum location: X=6.00, Y=-2.00 ; SAR Peak: 9.38 W/kg

B. SAR 1g & 10g

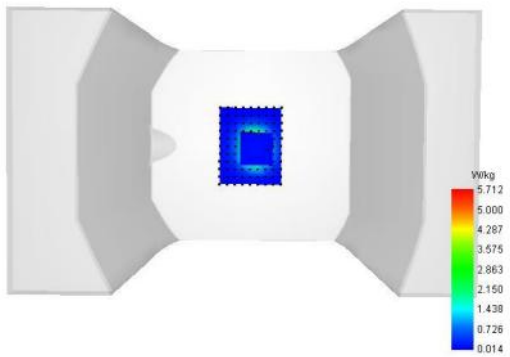
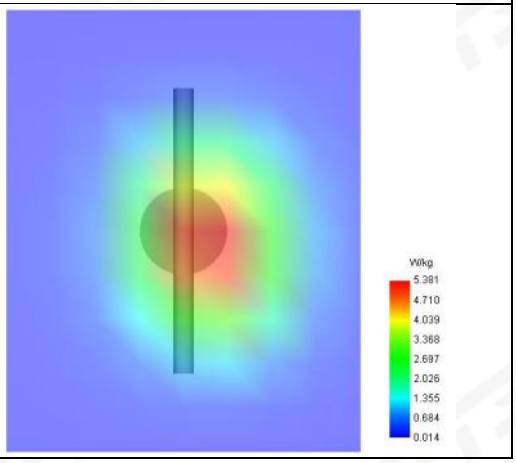
SAR 10g (W/Kg)	2.392
SAR 1g (W/Kg)	5.428
Horizontal validation criteria: minimum distance (mm)	11.313708
Vertical validation criteria: SAR ratio M2/M1 (%)	51.439790
ZM2	9.000000

C. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	9.381	5.712	2.938	1.547	0.806	0.421	0.219



D. 3D Image

3D screen shot	Hot spot position
	

System Performance Check Data(2600MHz)

Type: Phone measurement (Complete)

Area scan resolution: dx=12mm,dy=12mm

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

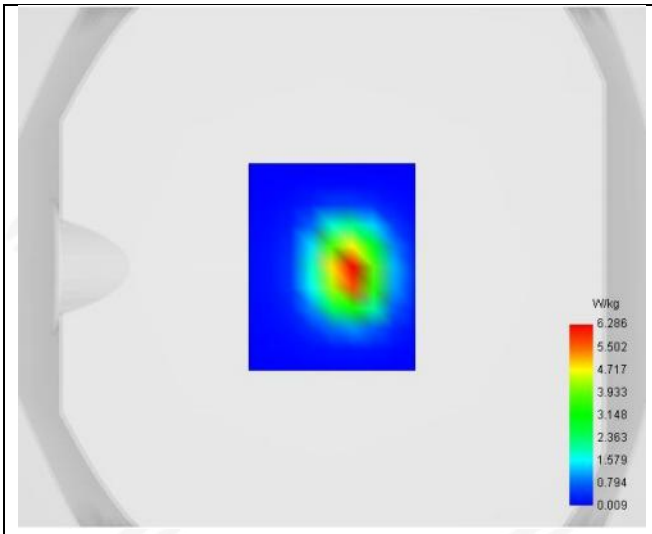
Date of measurement: 2026-06-10

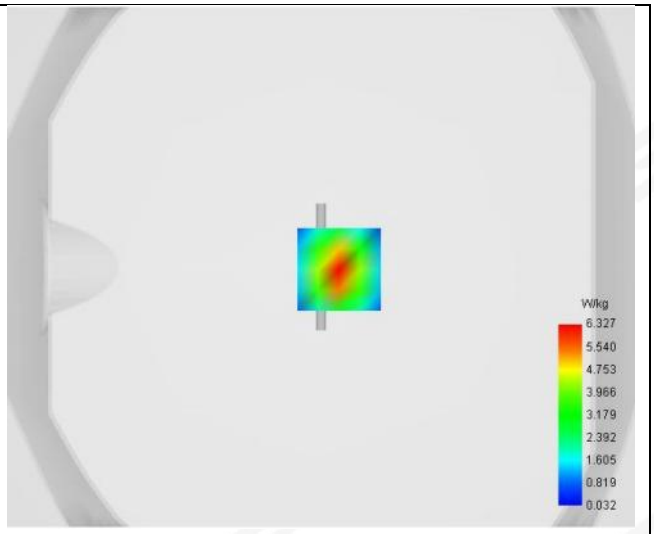
Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	2600MHz
Channels	Middle
Signal	CW
Frequency (MHz)	2600
Relative permittivity	38.73
Conductivity (S/m)	1.89
Probe	SN 08/21 EPGO352
ConvF	1.70
Crest factor:	1:1

A. SAR Surface and Volume

SURFACE SAR	VOLUME SAR





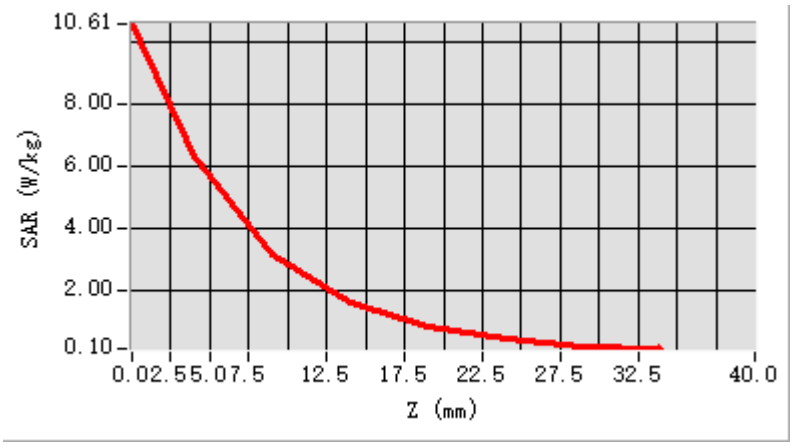
Maximum location: X=7.00, Y=-1.00 ; SAR Peak: 10.53 W/kg

B. SAR 1g & 10g

SAR 10g (W/Kg)	2.459
SAR 1g (W/Kg)	5.621
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	49.545855

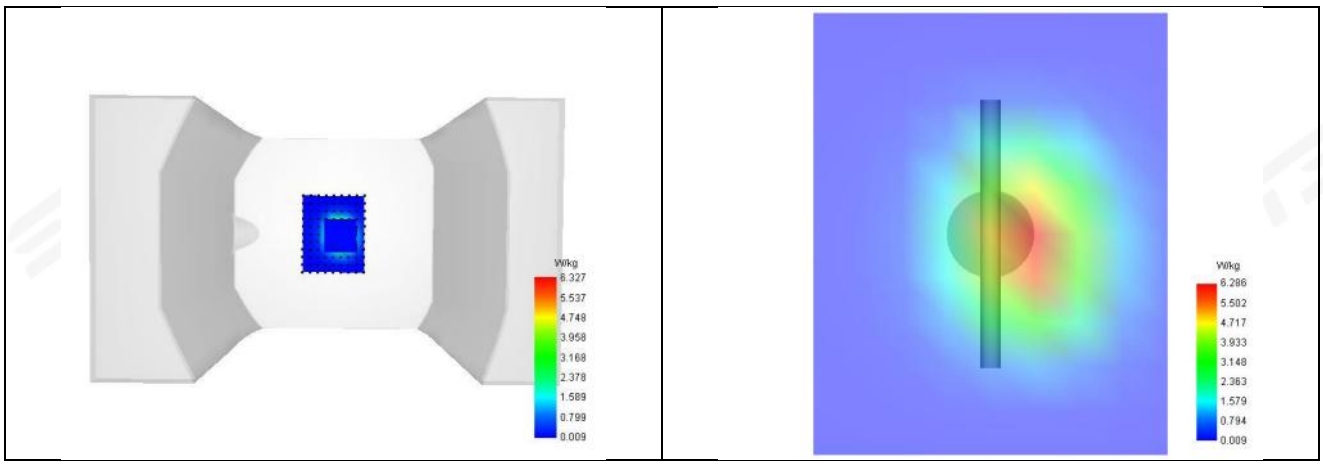
C. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	10.615	6.327	3.135	1.576	0.787	0.394	0.197



D. 3D Image

3D screen shot	Hot spot position


W/kg
8.327
5.537
4.748
3.958
3.168
2.378
1.589
0.799
0.009
W/kg
6.286
5.502
4.717
3.933
3.148
2.363
1.579
0.794
0.009

System Performance Check Data (5200MHz)

Type: Dipole measurement (Complete)

Area scan resolution: dx=10mm,dy=10mm

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

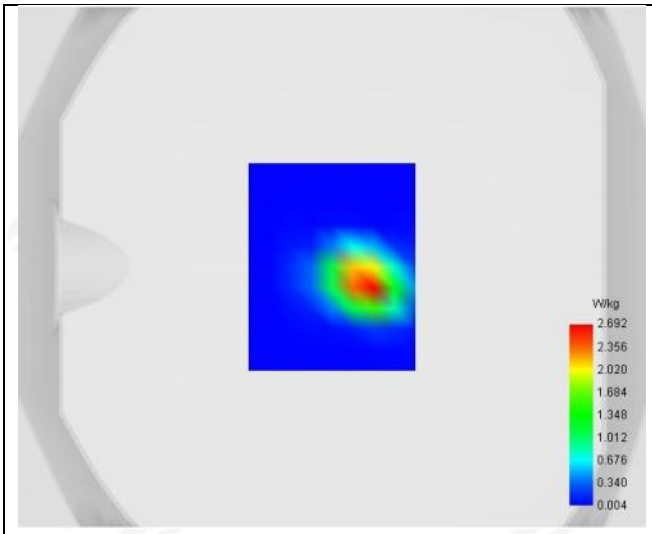
Date of measurement: 2026-06-11

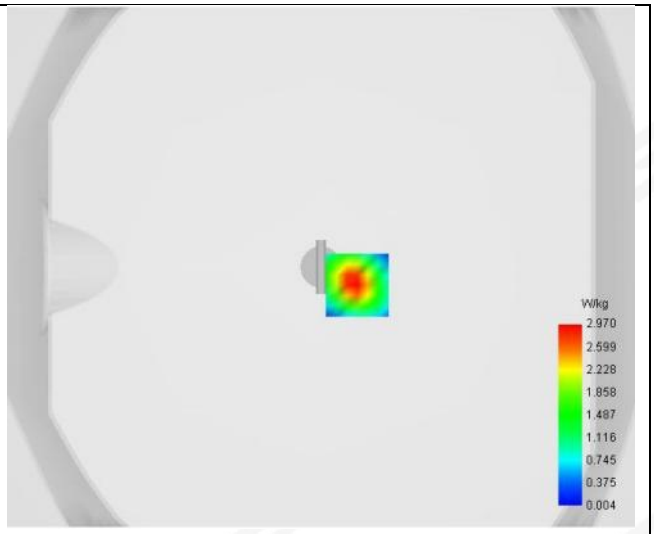
Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	5200MHz
Channels	Middle
Signal	CW
Frequency (MHz)	5200
Relative permittivity	37.03
Conductivity (S/m)	4.61
Probe	SN 08/21 EPGO352
ConvF	1.37
Crest factor:	1:1

A. SAR Surface and Volume

SURFACE SAR	VOLUME SAR





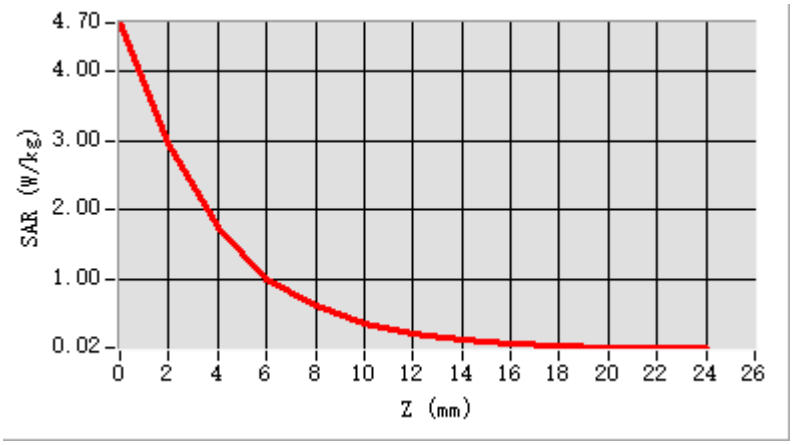
Maximum location: X=14.00, Y=-7.00 ; SAR Peak: 4.87 W/kg

B. SAR 1g & 10g

SAR 10g (W/Kg)	0.573
SAR 1g (W/Kg)	1.706
Horizontal validation criteria: minimum distance (mm)	8.944272
Vertical validation criteria: SAR ratio M2/M1 (%)	58.602946

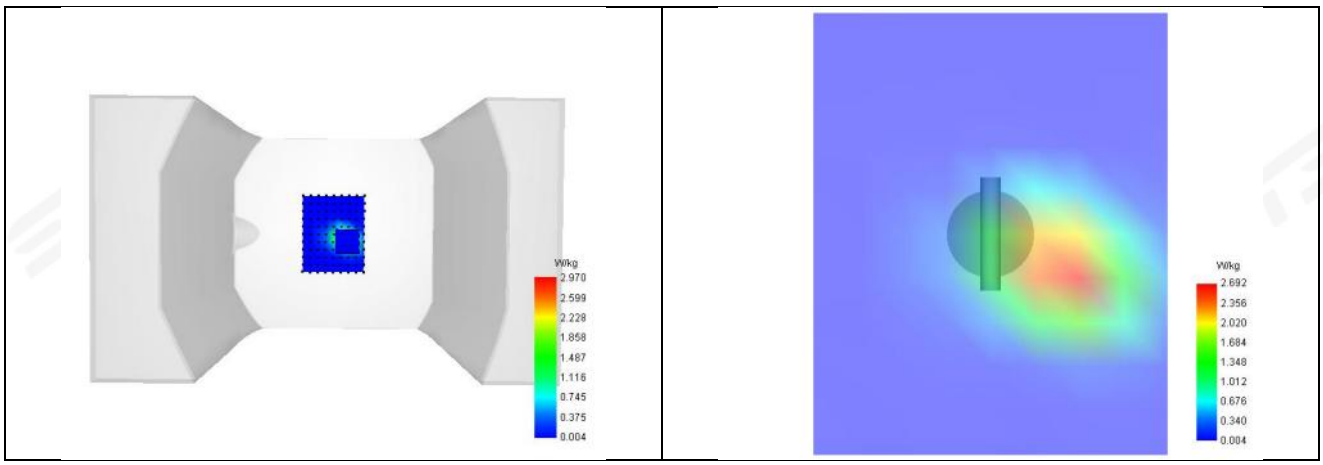
C. Z Axis Scan

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)	4.697	2.970	1.740	0.994	0.618	0.368	0.219	0.130	0.078	0.046	0.027	0.016



D. 3D Image

3D screen shot	Hot spot position


W/kg
2.970
2.599
2.228
1.858
1.487
1.116
0.745
0.375
0.004
W/kg
2.692
2.356
2.020
1.684
1.348
1.012
0.676
0.340
0.004

System Performance Check Data (5800MHz)

Type: Dipole measurement (Complete)

Area scan resolution: dx=10mm,dy=10mm

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

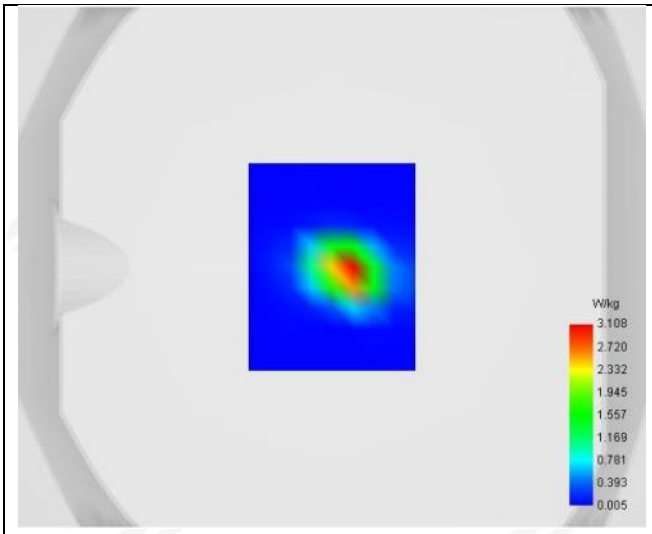
Date of measurement: 2026-06-11

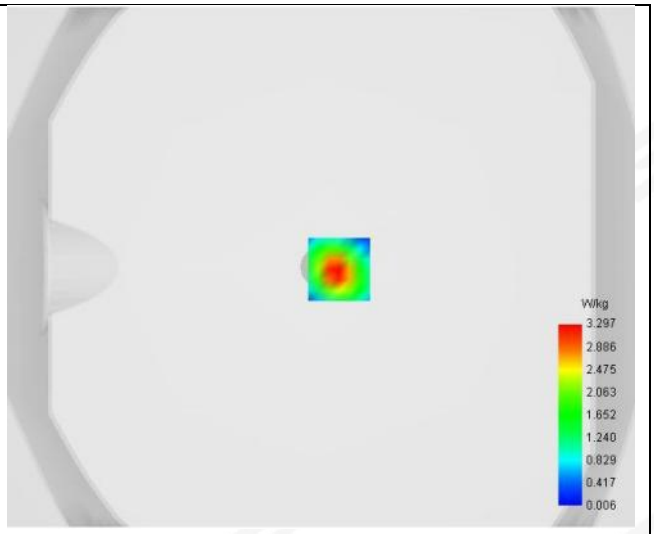
Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	5800MHz
Channels	Middle
Signal	CW
Frequency (MHz)	5800
Relative permittivity	35.42
Conductivity (S/m)	5.05
Probe	SN 08/21 EPGO352
ConvF	1.32
Crest factor:	1:1

A. SAR Surface and Volume

SURFACE SAR	VOLUME SAR





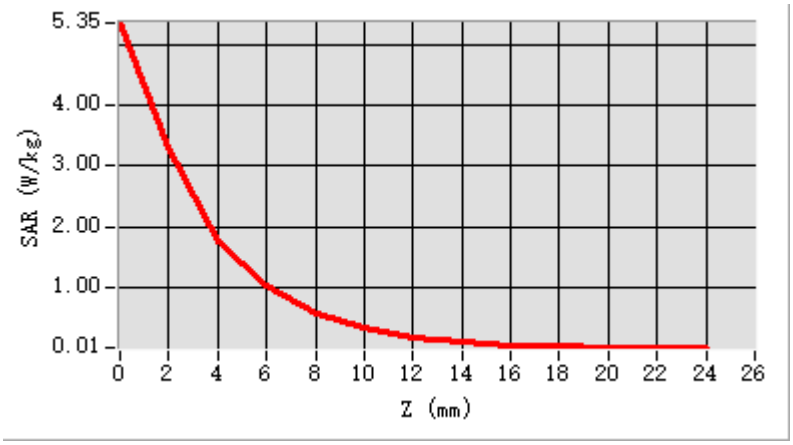
Maximum location: X=7.00, Y=-1.00 ; SAR Peak: 5.95 W/kg

B. SAR 1g & 10g

SAR 10g (W/Kg)	0.612
SAR 1g (W/Kg)	1.937
Horizontal validation criteria: minimum distance (mm)	8.944272
Vertical validation criteria: SAR ratio M2/M1 (%)	52.917525

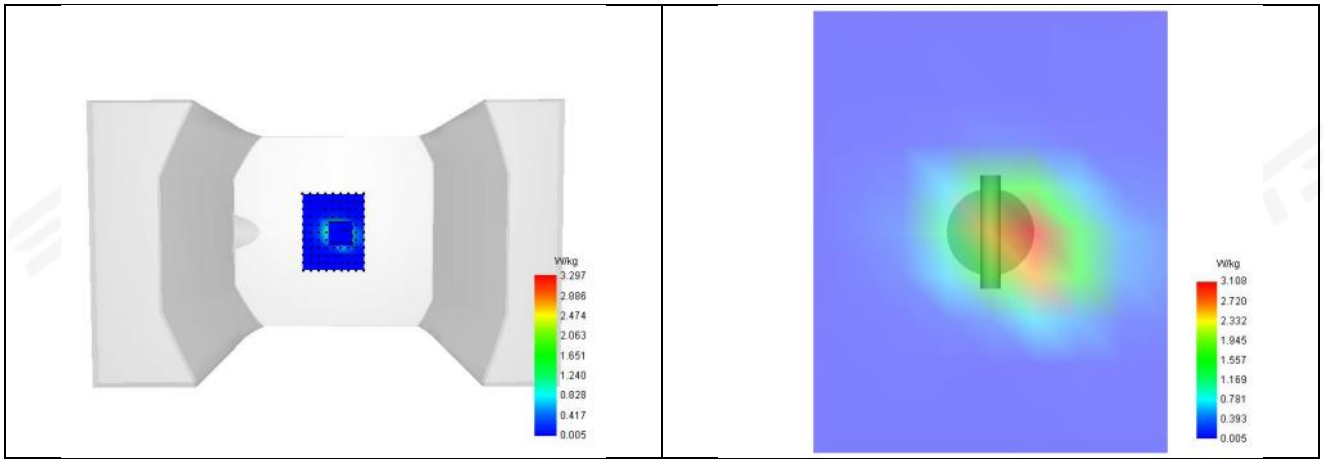
C. Z Axis Scan

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



D. 3D Image

3D screen shot	Hot spot position

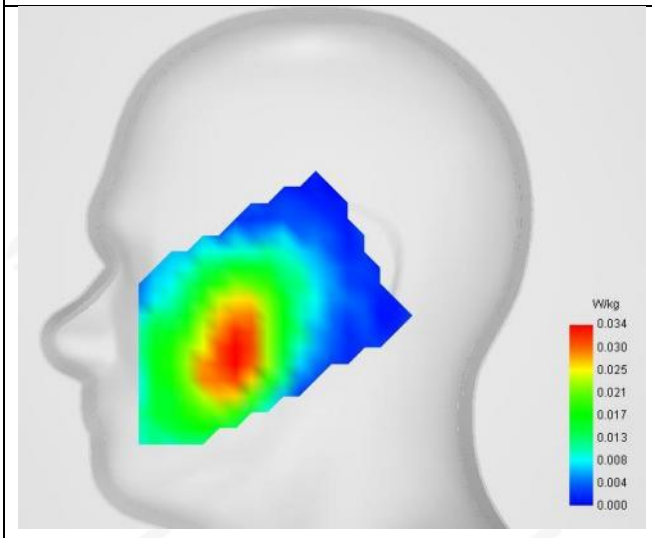
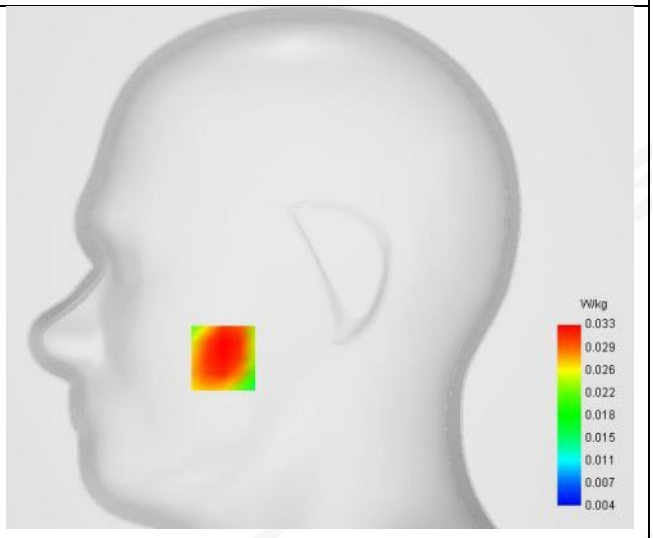

W/kg
3.297
2.886
2.474
2.063
1.651
1.240
0.828
0.417
0.005
W/kg
3.108
2.720
2.332
1.945
1.557
1.169
0.781
0.393
0.005

Appendix B. SAR Test Plots

Plot 1: DUT: Smart Phone; EUT Model: Philips S8310

Test Date	2026-06-07
ConvF	1.49
Probe	SN 08/21 EPGO352
Area Scan	dx=15mm, dy=15mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm
Phantom	Right Cheek
Device Position	Cheek
Band	GSM 850
Signal	Duty Cycle: 2.00 (Crest factor: 2.0)
Frequency (MHz)	836.6
Relative permittivity (real part)	42.62
Conductivity (S/m)	0.90

A.SAR Surface and Volume

SURFACE SAR	VOLUME SAR
	

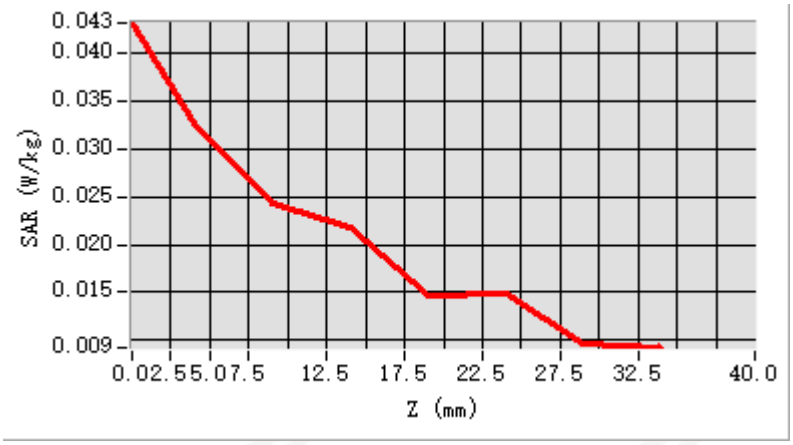
Maximum location: X=-48.00, Y=-45.00 ; SAR Peak: 0.04 W/kg

B. SAR 1g & 10g

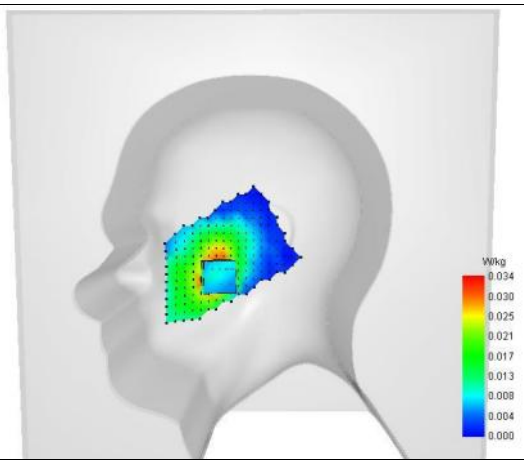
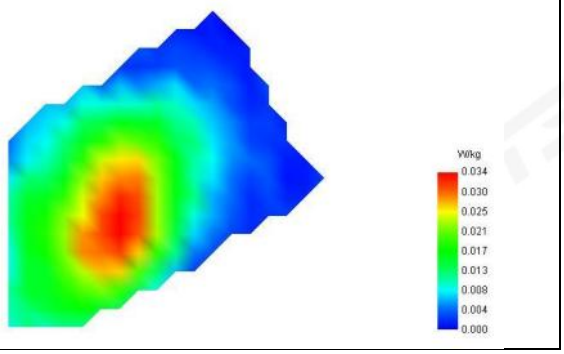
SAR 10g (W/Kg)	0.024
SAR 1g (W/Kg)	0.032
Horizontal validation criteria: minimum distance (mm)	28.844410
Vertical validation criteria: SAR ratio M2/M1 (%)	81.286149

C. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.043	0.033	0.024	0.022	0.015	0.015	0.010



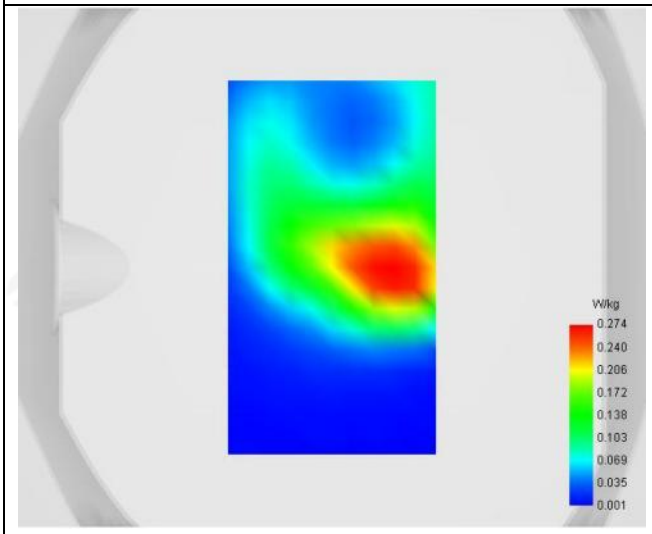
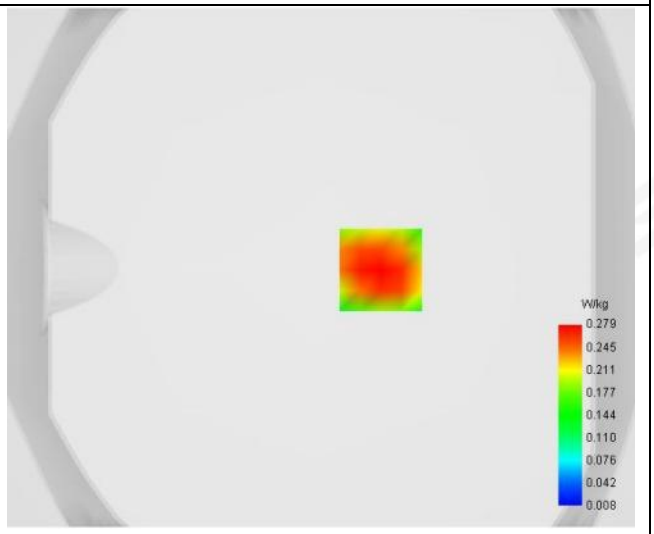
D. 3D Image

3D screen shot	Hot spot position
	

Plot 2: DUT: Smart Phone; EUT Model: Philips S8310

Test Date	2026-06-07
ConvF	1.49
Probe	SN 08/21 EPGO352
Area Scan	dx=15mm, dy=15mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	GPRS 850
Signal	Duty Cycle: 2.00 (Crest factor: 2.0)
Frequency (MHz)	836.6
Relative permittivity (real part)	42.62
Conductivity (S/m)	0.90

A. SAR Surface and Volume

SURFACE SAR	VOLUME SAR
	

Maximum location: X=23.00, Y=-1.00 ; SAR Peak: 0.43 W/kg

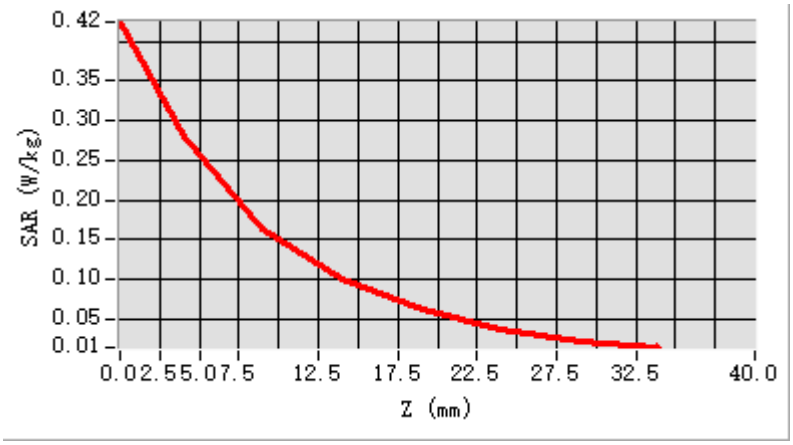
B. SAR 1g & 10g

SAR 10g (W/Kg)	0.155

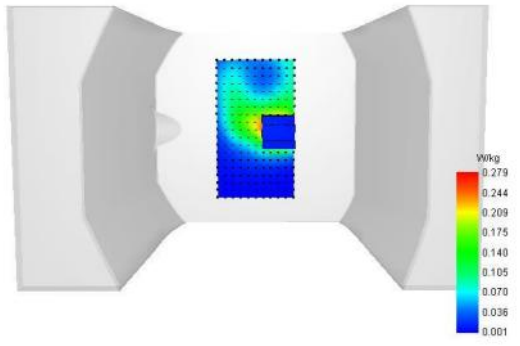
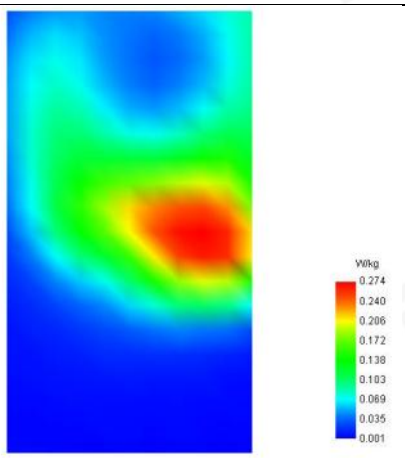
SAR 1g (W/Kg)	0.270
Horizontal validation criteria: minimum distance (mm)	22.627417
Vertical validation criteria: SAR ratio M2/M1 (%)	59.001108

C. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.424	0.279	0.164	0.101	0.062	0.039	0.023



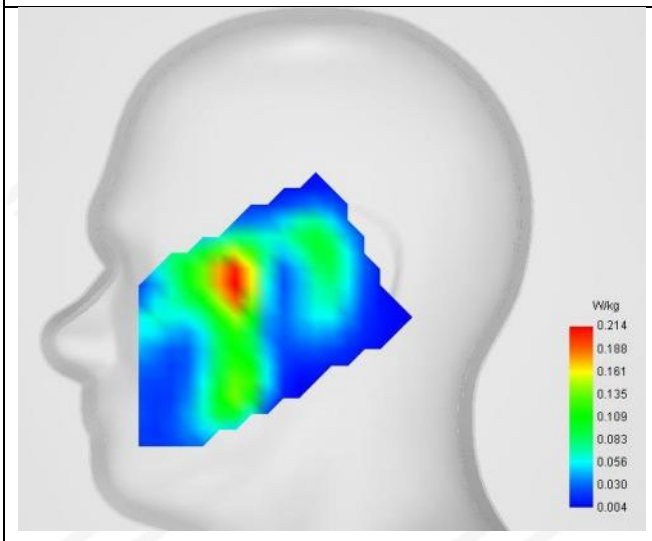
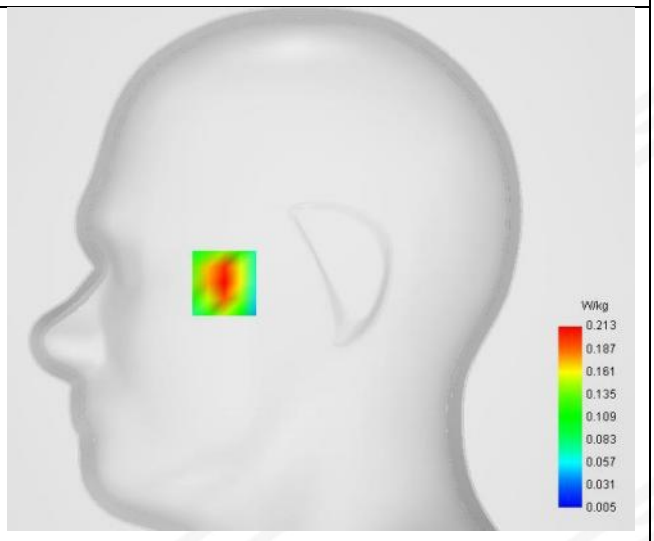
D. 3D Image

3D screen shot	Hot spot position
	

Plot 3: DUT: Smart Phone; EUT Model: Philips S8310

Test Date	2026-06-09
ConvF	1.73
Probe	SN 08/21 EPGO352
Area Scan	dx=15mm, dy=15mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm
Phantom	Right head
Device Position	Cheek
Band	GSM 1900
Signal	Duty Cycle: 2.00 (Crest factor: 2.0)
Frequency (MHz)	1909.8
Relative permittivity (real part)	40.10
Conductivity (S/m)	1.39

A. SAR Surface and Volume

SURFACE SAR	VOLUME SAR
	

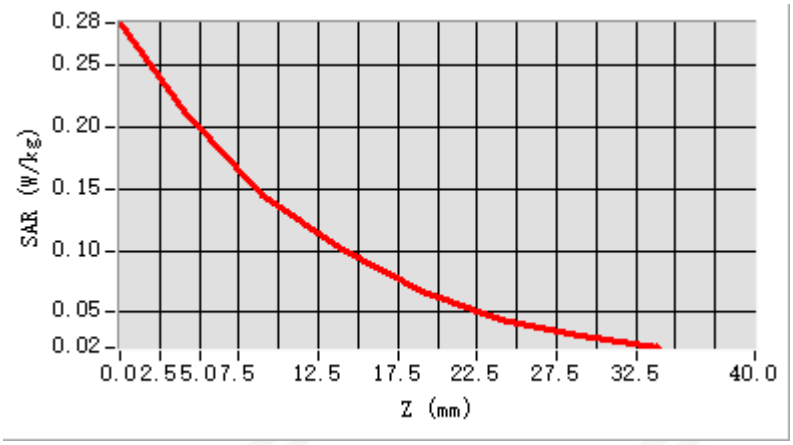
Maximum location: X=-48.00, Y=-7.00 ; SAR Peak: 0.29 W/kg

B. SAR 1g & 10g

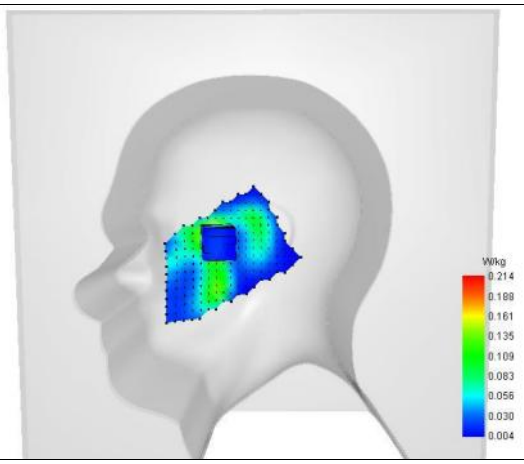
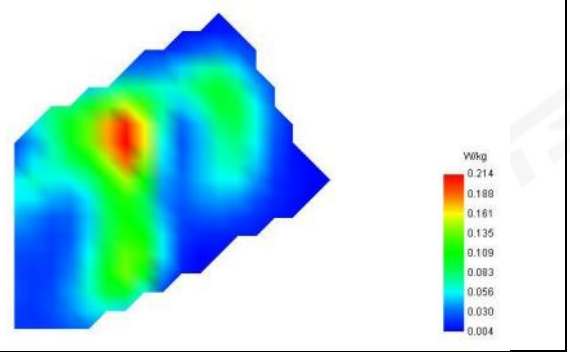
SAR 10g (W/Kg)	0.118
SAR 1g (W/Kg)	0.200
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	68.280715

C. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.284	0.213	0.146	0.102	0.068	0.045	0.032



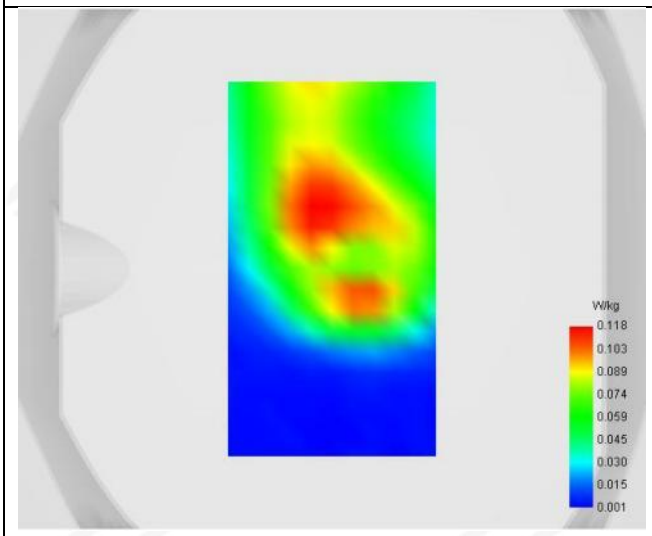
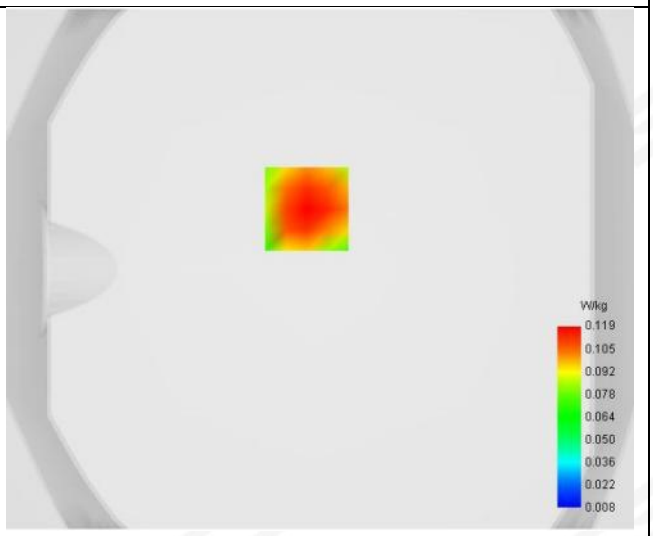
D. 3D Image

3D screen shot	Hot spot position
	

Plot 4: DUT: Smart Phone; EUT Model: Philips S8310

Test Date	2026-06-09
ConvF	1.73
Probe	SN 08/21 EPGO352
Area Scan	dx=15mm, dy=15mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	GPRS 1900
Signal	Duty Cycle: 2.00 (Crest factor: 2.0)
Frequency (MHz)	1909.8
Relative permittivity (real part)	40.10
Conductivity (S/m)	1.39

A. SAR Surface and Volume

SURFACE SAR	VOLUME SAR
	

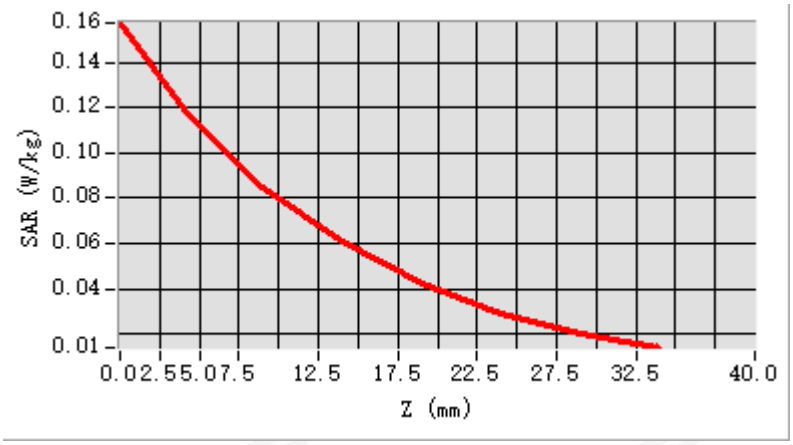
Maximum location: X=-5.00, Y=23.00 ; SAR Peak: 0.16 W/kg

B. SAR 1g & 10g

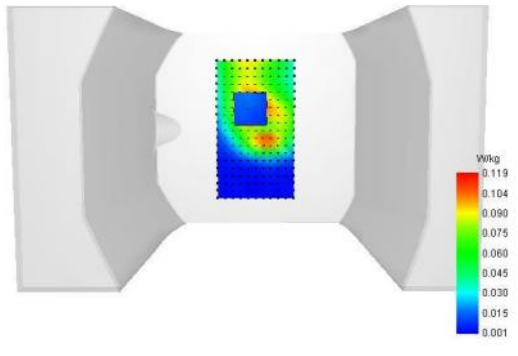
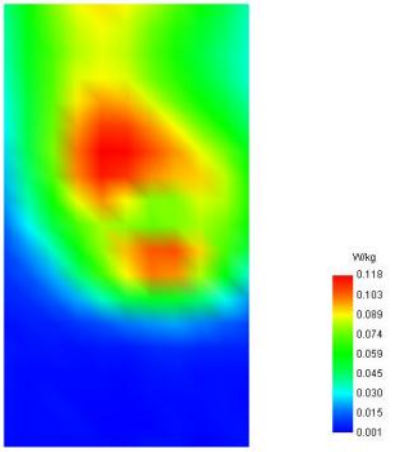
SAR 10g (W/Kg)	0.076
SAR 1g (W/Kg)	0.115
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

C. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.157	0.119	0.085	0.061	0.043	0.029	0.020



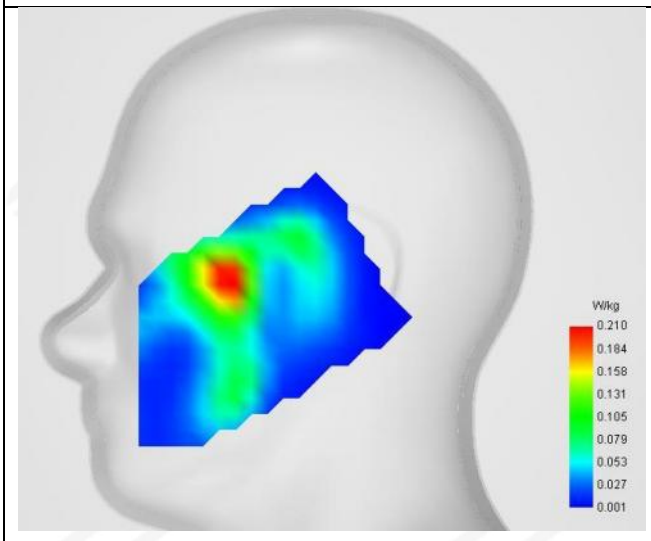
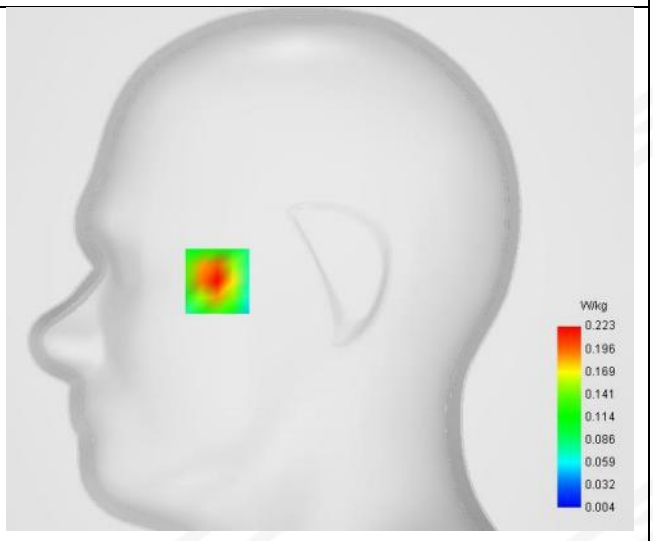
D. 3D Image

3D screen shot	Hot spot position
	

Plot 5: DUT: Smart Phone; EUT Model: Philips S8310

Test Date	2026-06-09
ConvF	1.73
Probe	SN 08/21 EPGO352
Area Scan	dx=15mm, dy=15mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm
Phantom	Right head
Device Position	Cheek
Band	WCDMA II
Signal	WCDMA (Crest factor: 1.0)
Frequency (MHz)	1880
Relative permittivity (real part)	39.56
Conductivity (S/m)	1.39

A. SAR Surface and Volume

SURFACE SAR	VOLUME SAR
	

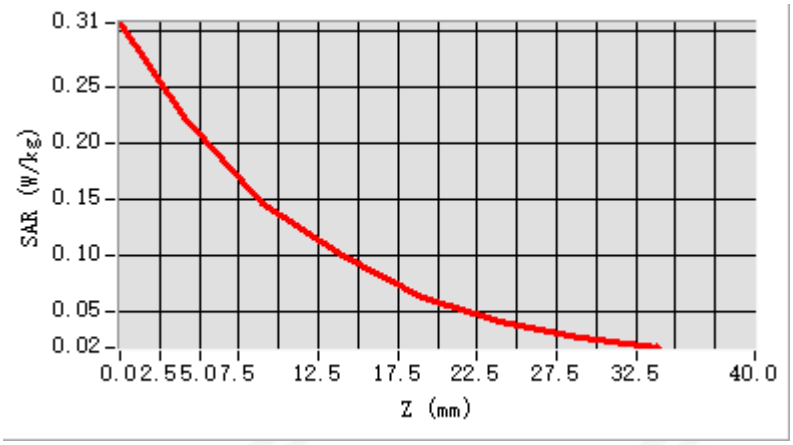
Maximum location: X=-51.00, Y=-6.00 ; SAR Peak: 0.32 W/kg

B. SAR 1g & 10g

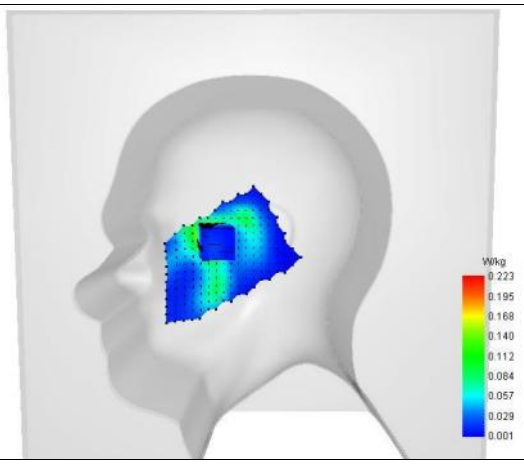
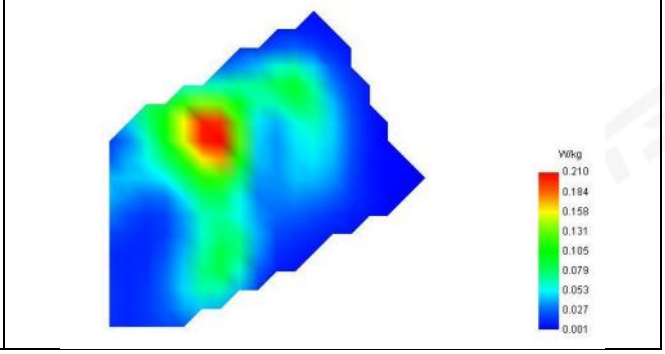
SAR 10g (W/Kg)	0.120
SAR 1g (W/Kg)	0.210
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	65.777039

C. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.307	0.223	0.147	0.100	0.063	0.041	0.027



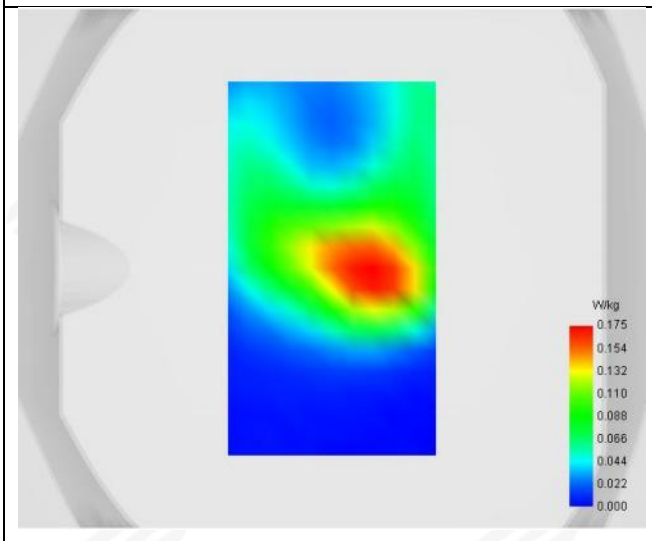
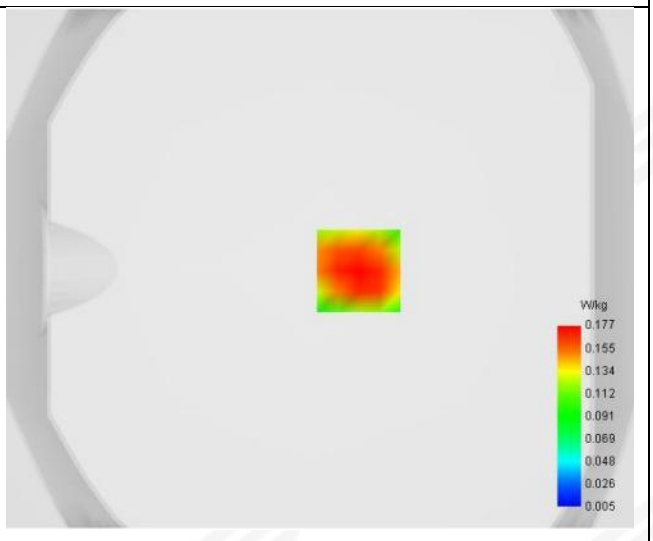
D. 3D Image

3D screen shot	Hot spot position
	

Plot 6: DUT: Smart Phone; EUT Model: Philips S8310

Test Date	2026-06-09
ConvF	1.73
Probe	SN 08/21 EPGO352
Area Scan	dx=15mm, dy=15mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	WCDMA II
Signal	WCDMA (Crest factor: 1.0)
Frequency (MHz)	1880
Relative permittivity (real part)	39.56
Conductivity (S/m)	1.39

A. SAR Surface and Volume

SURFACE SAR	VOLUME SAR
	

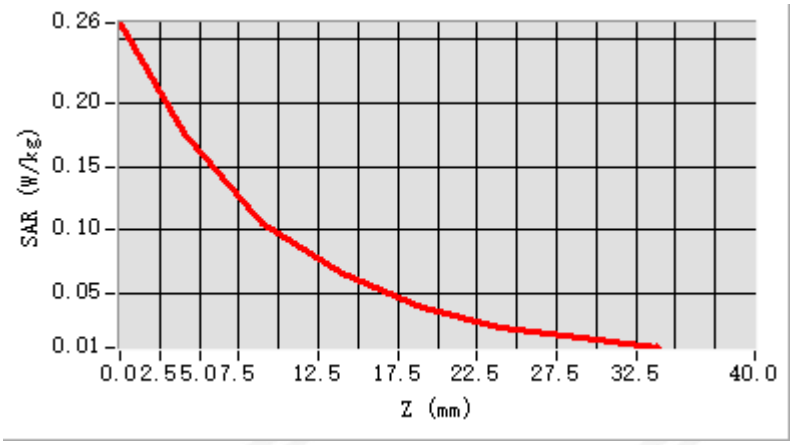
Maximum location: X=15.00, Y=-1.00 ; SAR Peak: 0.27 W/kg

B. SAR 1g & 10g

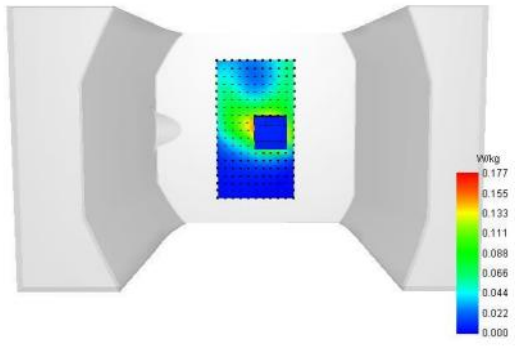
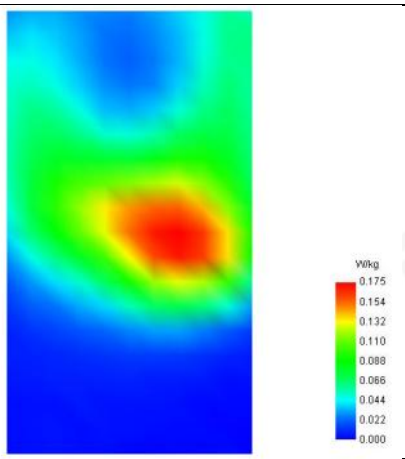
SAR 10g (W/Kg)	0.099
SAR 1g (W/Kg)	0.170
Horizontal validation criteria: minimum distance (mm)	22.627417
Vertical validation criteria: SAR ratio M2/M1 (%)	59.821626

C. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.262	0.177	0.105	0.066	0.039	0.024	0.016



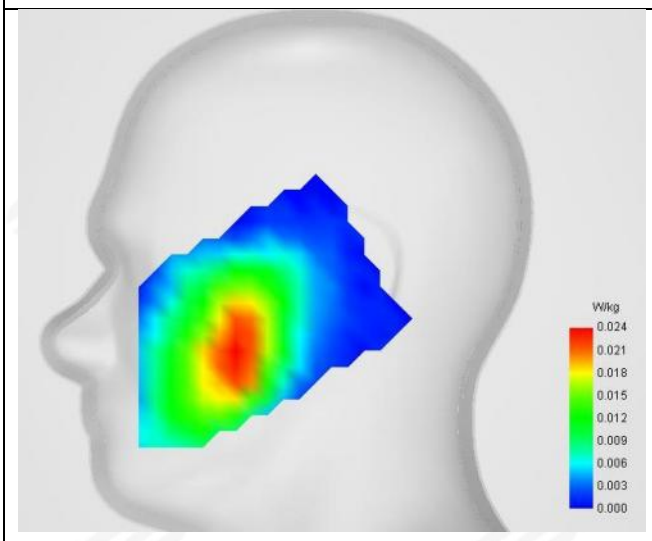
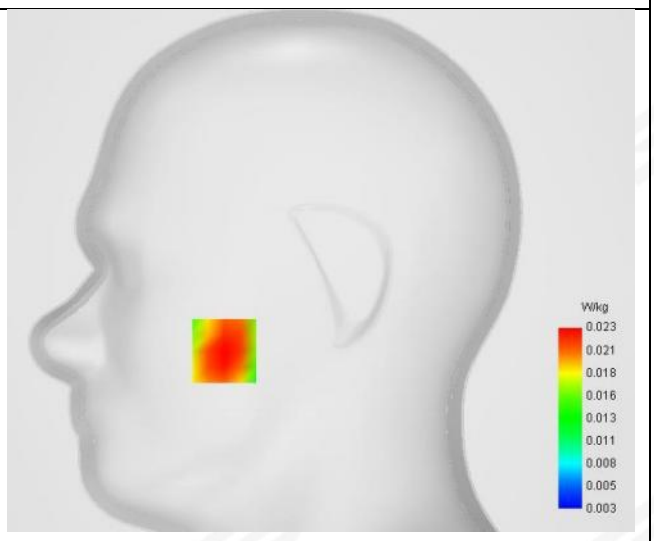
D. 3D Image

3D screen shot	Hot spot position
	

Plot 7: DUT: Smart Phone; EUT Model: Philips S8310

Test Date	2026-06-07
ConvF	1.49
Probe	SN 08/21 EPGO352
Area Scan	dx=15mm, dy=15mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm
Phantom	Right head
Device Position	Cheek
Band	WCDMA V
Signal	WCDMA (Crest factor: 1.0)
Frequency (MHz)	836.6
Relative permittivity (real part)	42.62
Conductivity (S/m)	0.90

A. SAR Surface and Volume

SURFACE SAR	VOLUME SAR
	

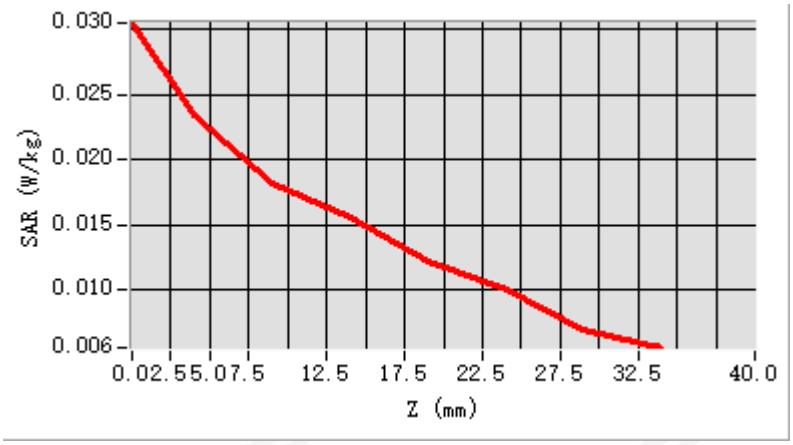
Maximum location: X=-48.00, Y=-40.00 ; SAR Peak: 0.03 W/kg

B. SAR 1g & 10g

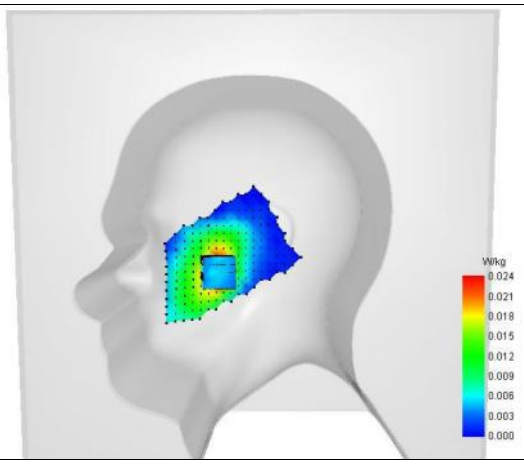
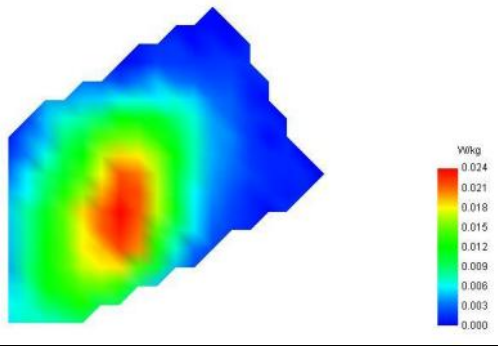
SAR 10g (W/Kg)	0.017
SAR 1g (W/Kg)	0.024
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

C. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.030	0.023	0.018	0.016	0.012	0.010	0.007



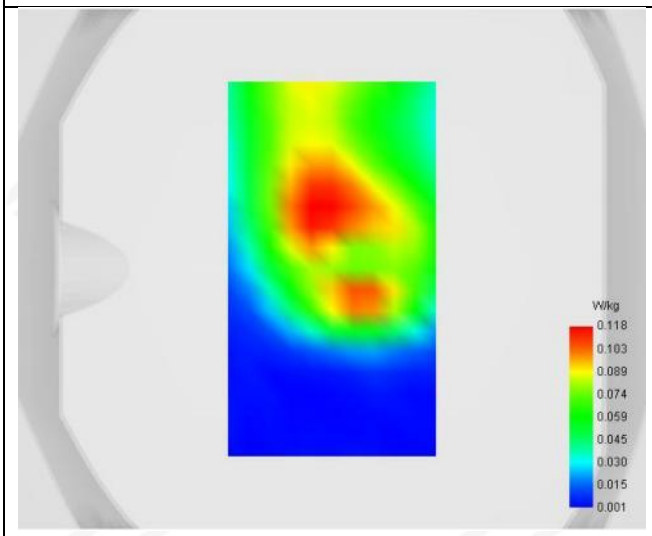
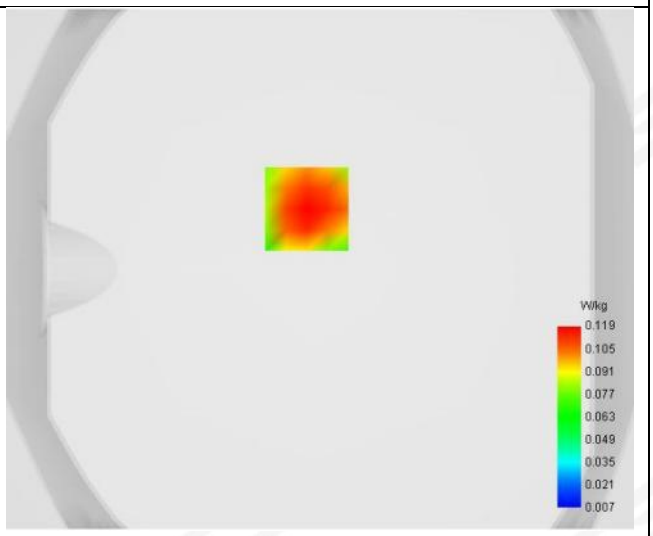
D. 3D Image

3D screen shot	Hot spot position
	

Plot 8: DUT: Smart Phone; EUT Model: Philips S8310

Test Date	2026-06-07
ConvF	1.49
Probe	SN 08/21 EPGO352
Area Scan	dx=15mm, dy=15mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	WCDMA V
Signal	WCDMA (Crest factor: 1.0)
Frequency (MHz)	836.6
Relative permittivity (real part)	42.62
Conductivity (S/m)	0.90

A. SAR Surface and Volume

SURFACE SAR	VOLUME SAR
	

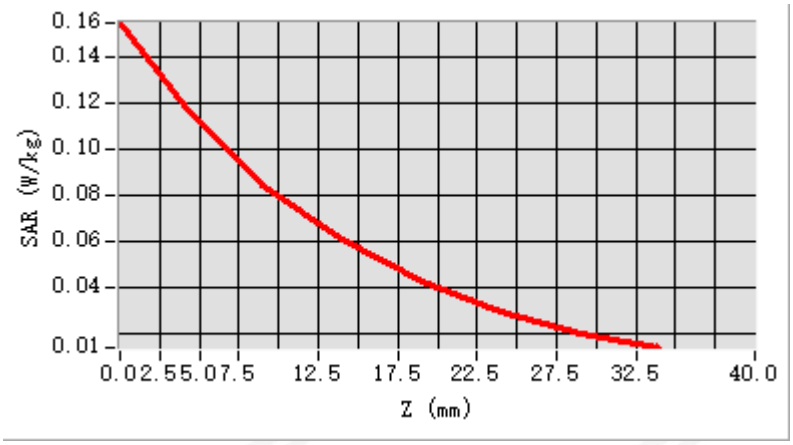
Maximum location: X=-5.00, Y=23.00 ; SAR Peak: 0.16 W/kg

B. SAR 1g & 10g

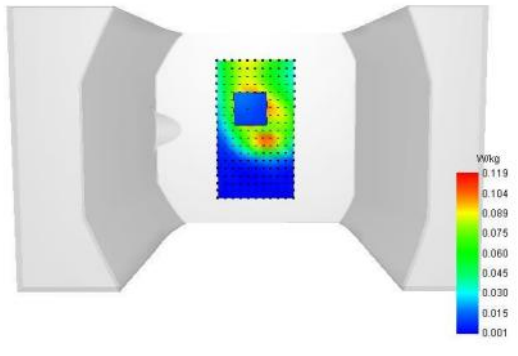
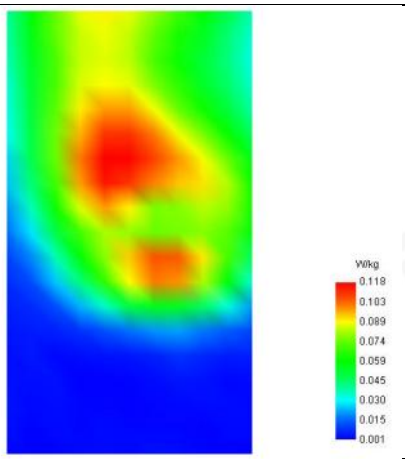
SAR 10g (W/Kg)	0.076
SAR 1g (W/Kg)	0.114
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

C. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.155	0.119	0.085	0.061	0.042	0.029	0.020



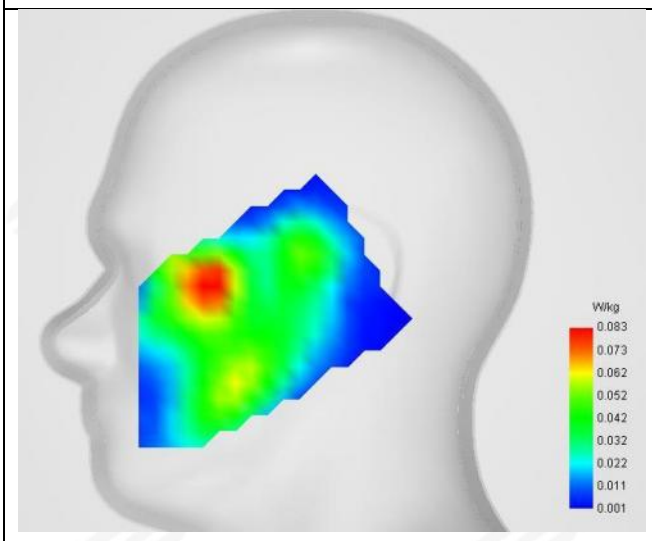
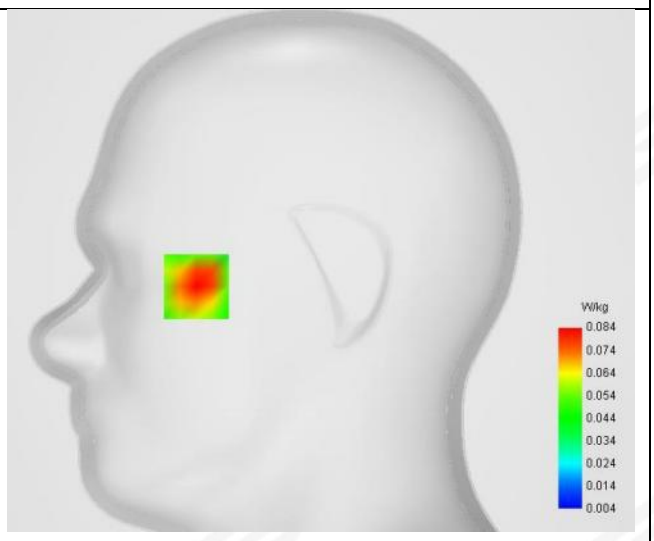
D. 3D Image

3D screen shot	Hot spot position
	

Plot 9: DUT: Smart Phone; EUT Model: Philips S8310

Test Date	2026-06-08
ConvF	1.54
Probe	SN 08/21 EPGO352
Area Scan	dx=15mm, dy=15mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm
Phantom	Right Cheek
Device Position	Cheek
Band	WCDMA IV
Signal	WCDMA (Crest factor: 1.0)
Frequency (MHz)	1752.4
Relative permittivity (real part)	40.39
Conductivity (S/m)	1.36

A. SAR Surface and Volume

SURFACE SAR	VOLUME SAR
	

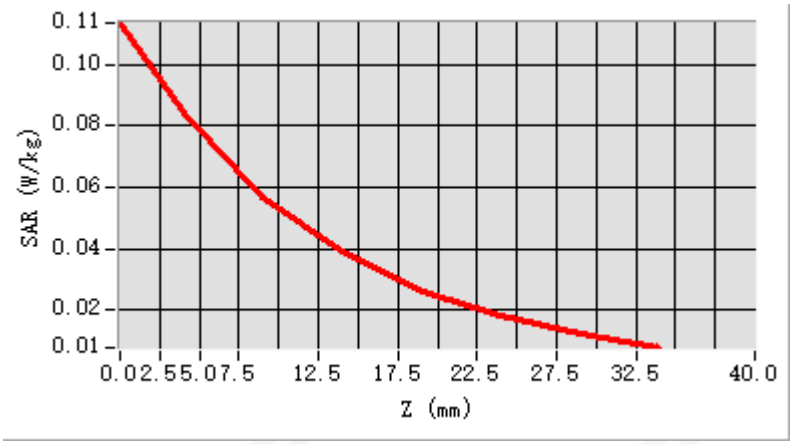
Maximum location: X=-62.00, Y=-8.00 ; SAR Peak: 0.12 W/kg

B. SAR 1g & 10g

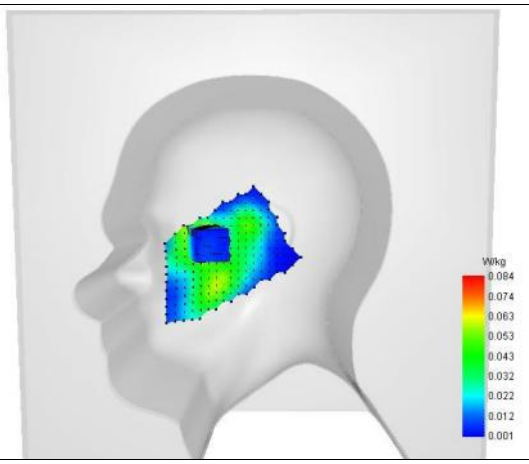
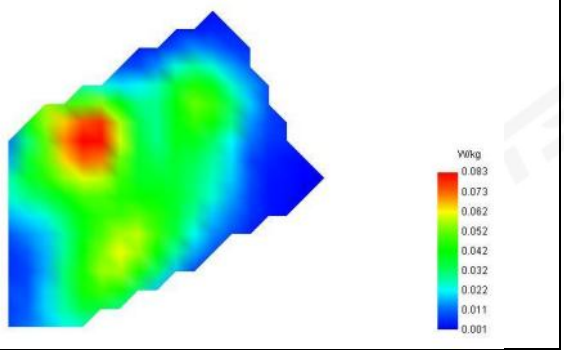
SAR 10g (W/Kg)	0.049
SAR 1g (W/Kg)	0.080
Horizontal validation criteria: minimum distance (mm)	22.627417
Vertical validation criteria: SAR ratio M2/M1 (%)	67.620365

C. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.113	0.084	0.057	0.039	0.026	0.018	0.013



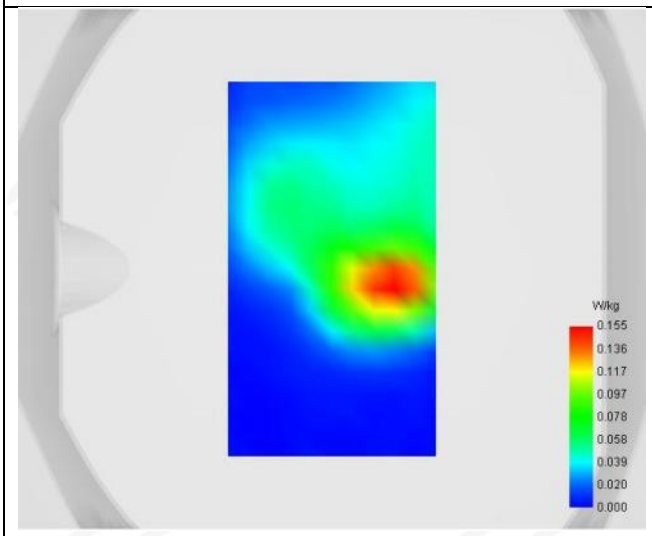
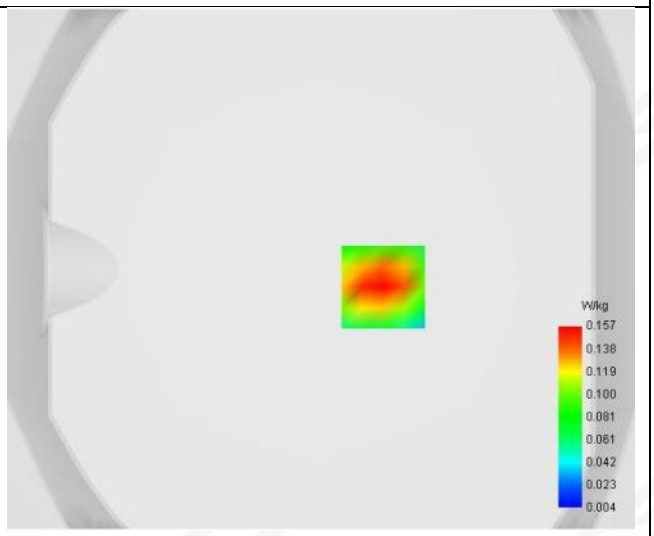
D. 3D Image

3D screen shot	Hot spot position
	

Plot 10: DUT: Smart Phone; EUT Model: Philips S8310

Test Date	2026-06-08
ConvF	1.54
Probe	SN 08/21 EPGO352
Area Scan	dx=15mm, dy=15mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	WCDMA IV
Signal	WCDMA (Crest factor: 1.0)
Frequency (MHz)	1752.4
Relative permittivity (real part)	40.39
Conductivity (S/m)	1.36

A. SAR Surface and Volume

SURFACE SAR	VOLUME SAR
	

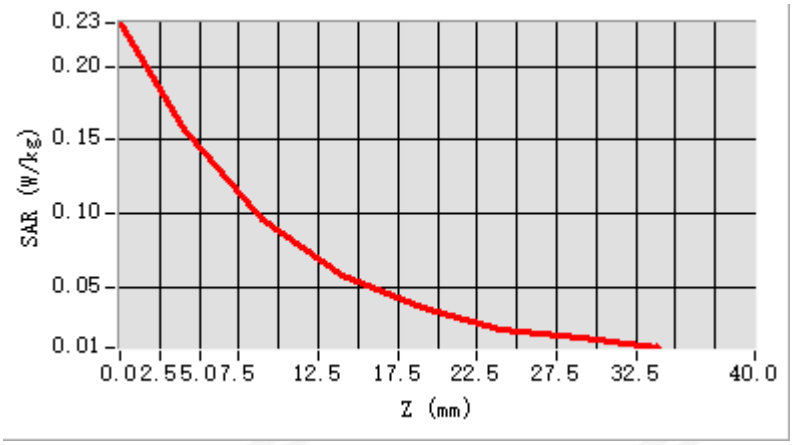
Maximum location: X=24.00, Y=-7.00 ; SAR Peak: 0.23 W/kg

B. SAR 1g & 10g

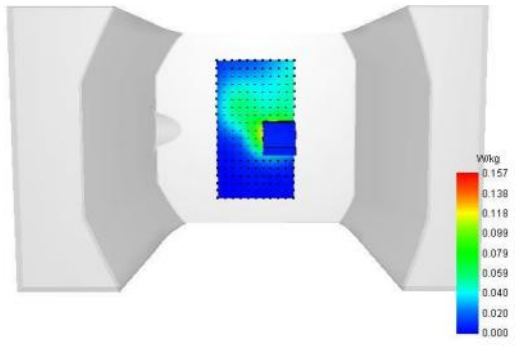
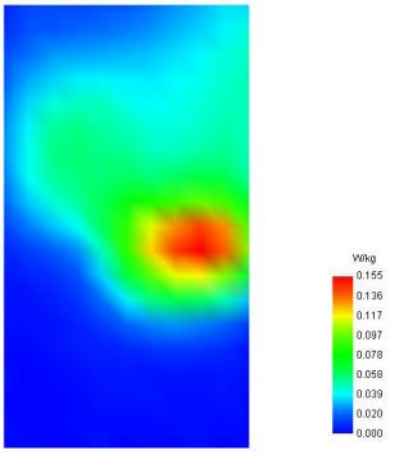
SAR 10g (W/Kg)	0.085
SAR 1g (W/Kg)	0.149
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	60.829970

C. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.230	0.157	0.096	0.058	0.037	0.021	0.016



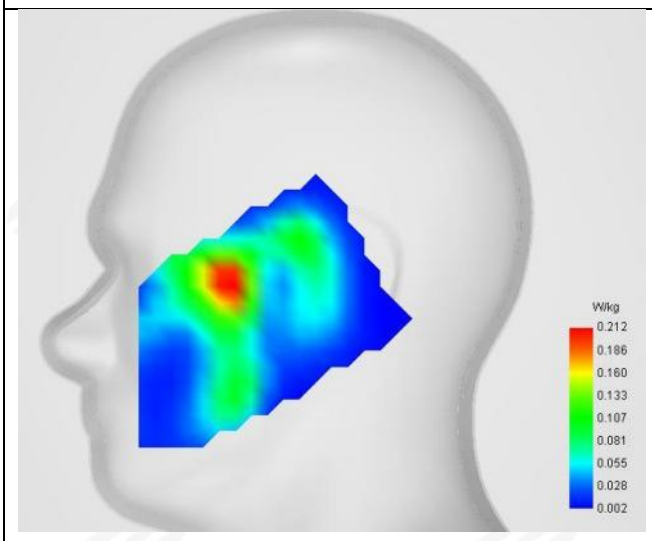
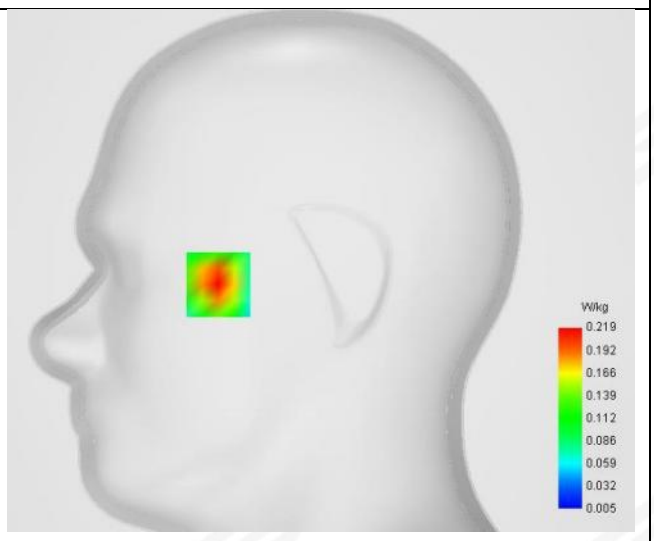
D. 3D Image

3D screen shot	Hot spot position
	

Plot 11: DUT: Smart Phone; EUT Model: Philips S8310

Test Date	2026-06-09
ConvF	1.73
Probe	SN 08/21 EPGO352
Area Scan	dx=15mm, dy=15mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm
Phantom	Right head
Device Position	Cheek
Band	LTE Band 2 (RB 1)
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	1880
Relative permittivity (real part)	39.56
Conductivity (S/m)	1.39

A. SAR Surface and Volume

SURFACE SAR	VOLUME SAR
	

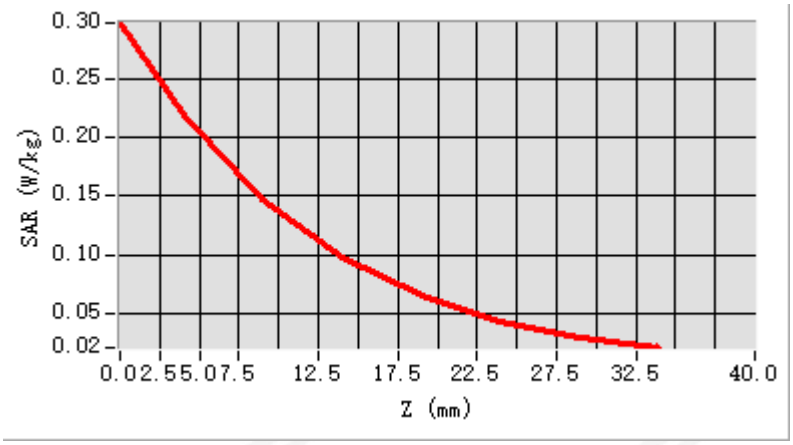
Maximum location: X=-51.00, Y=-7.00 ; SAR Peak: 0.31 W/kg

B. SAR 1g & 10g

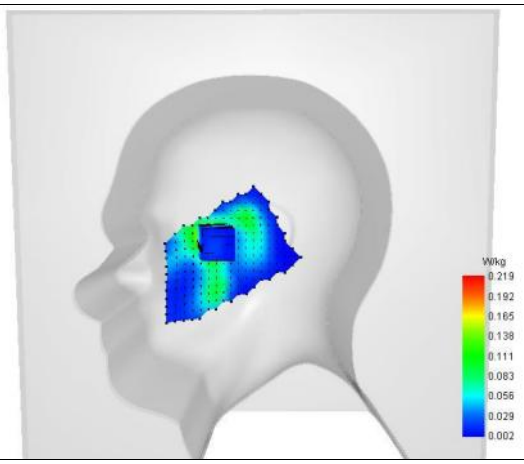
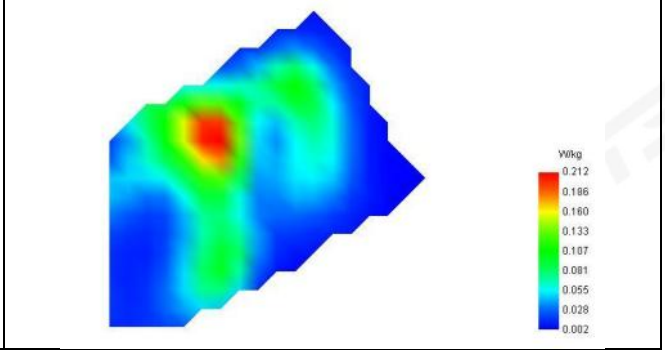
SAR 10g (W/Kg)	0.119
SAR 1g (W/Kg)	0.206
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	67.302203

C. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.299	0.219	0.147	0.098	0.065	0.043	0.029



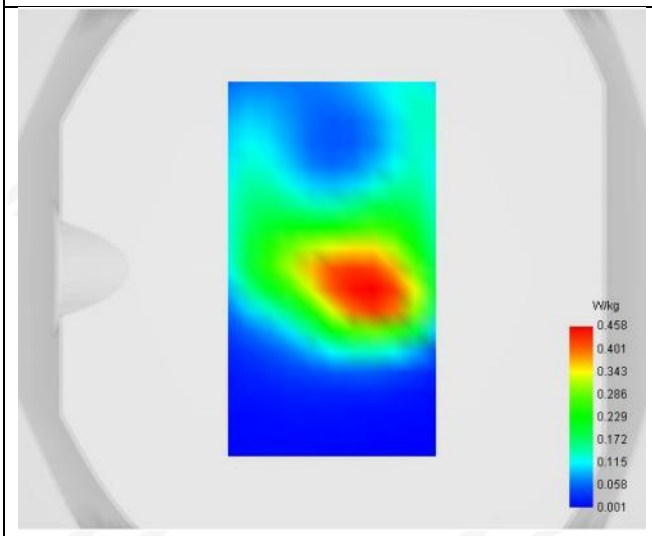
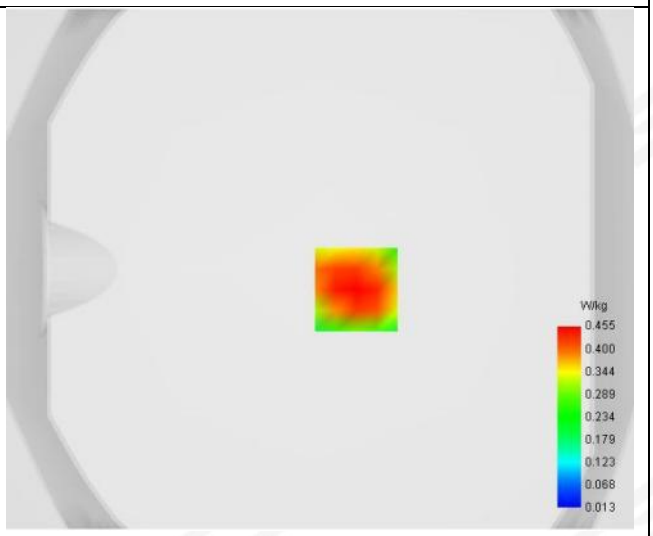
D. 3D Image

3D screen shot	Hot spot position
	

Plot 12: DUT: Smart Phone; EUT Model: Philips S8310

Test Date	2026-06-09
ConvF	1.73
Probe	SN 08/21 EPGO352
Area Scan	dx=15mm, dy=15mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	LTE Band 2(RB 1)
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	1880
Relative permittivity (real part)	39.56
Conductivity (S/m)	1.39

A. SAR Surface and Volume

SURFACE SAR	VOLUME SAR
	

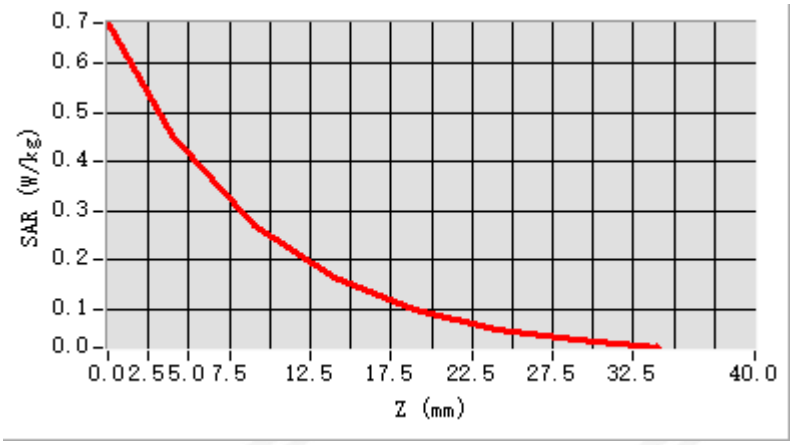
Maximum location: X=14.00, Y=-8.00 ; SAR Peak: 0.69 W/kg

B. SAR 1g & 10g

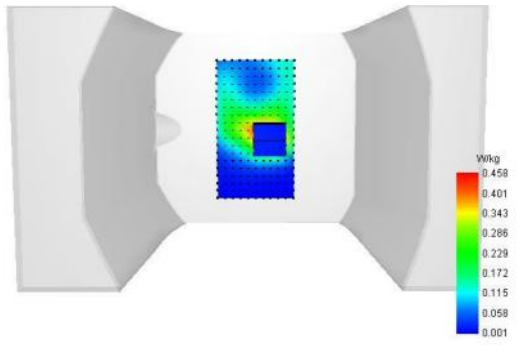
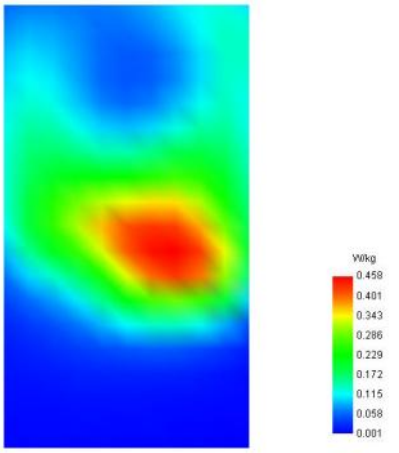
SAR 10g (W/Kg)	0.253
SAR 1g (W/Kg)	0.439
Horizontal validation criteria: minimum distance (mm)	22.627417
Vertical validation criteria: SAR ratio M2/M1 (%)	59.493583

C. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.681	0.455	0.271	0.165	0.101	0.060	0.038



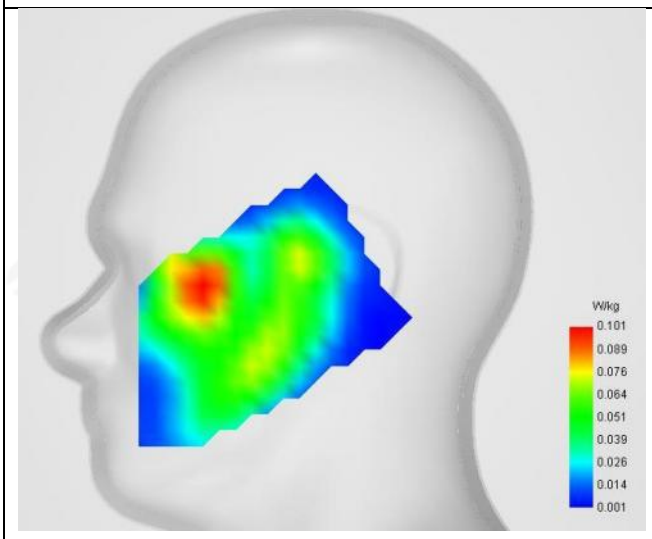
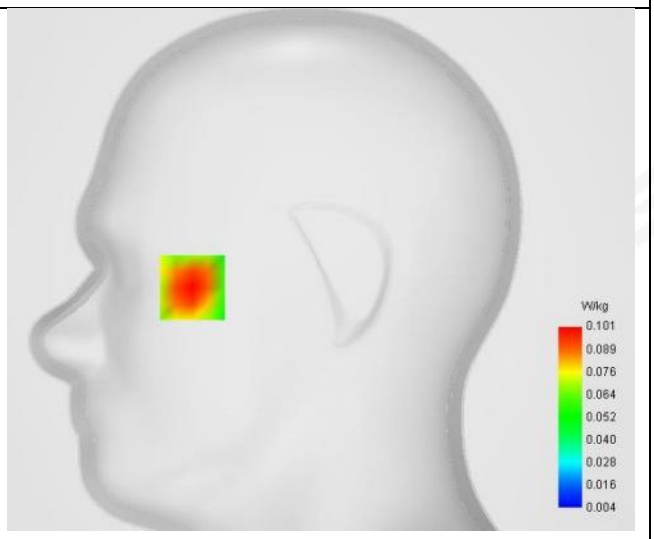
D. 3D Image

3D screen shot	Hot spot position
	

Plot 13: DUT: Smart Phone; EUT Model: Philips S8310

Test Date	2026-06-08
ConvF	1.54
Probe	SN 08/21 EPGO352
Area Scan	dx=15mm, dy=15mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm
Phantom	Right head
Band	LTE Band 4 (RB 1)
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	1775
Relative permittivity (real part)	40.61
Conductivity (S/m)	1.39

A. SAR Surface and Volume

SURFACE SAR	VOLUME SAR
	

Maximum location: X=-64.00, Y=-9.00 ; SAR Peak: 0.14 W/kg

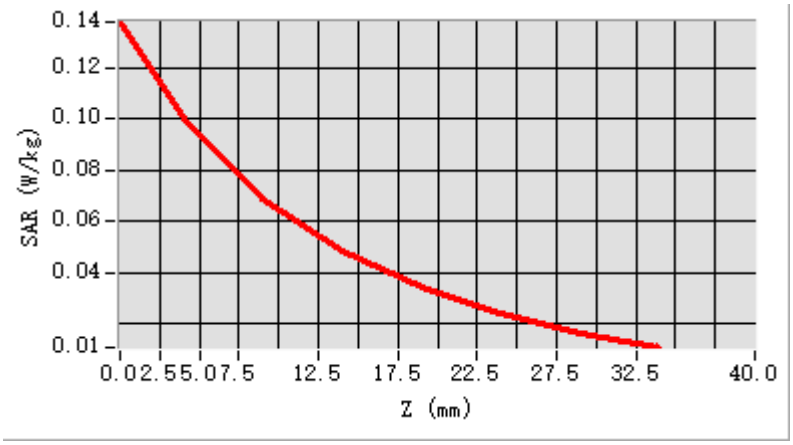
B. SAR 1g & 10g

SAR 10g (W/Kg)	0.061

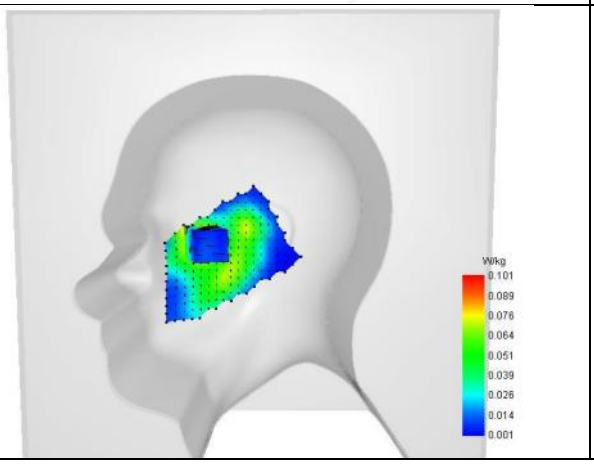
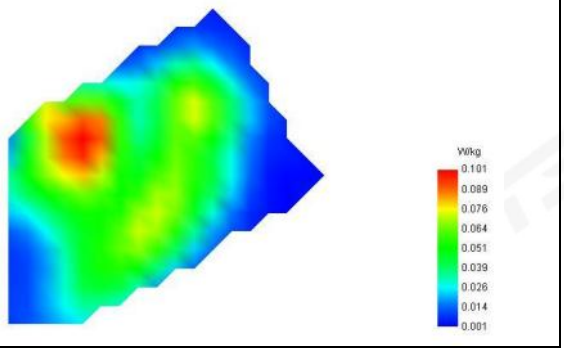
SAR 1g (W/Kg)	0.096
Horizontal validation criteria: minimum distance (mm)	22.627417
Vertical validation criteria: SAR ratio M2/M1 (%)	68.641256

C. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.138	0.101	0.069	0.048	0.035	0.024	0.016



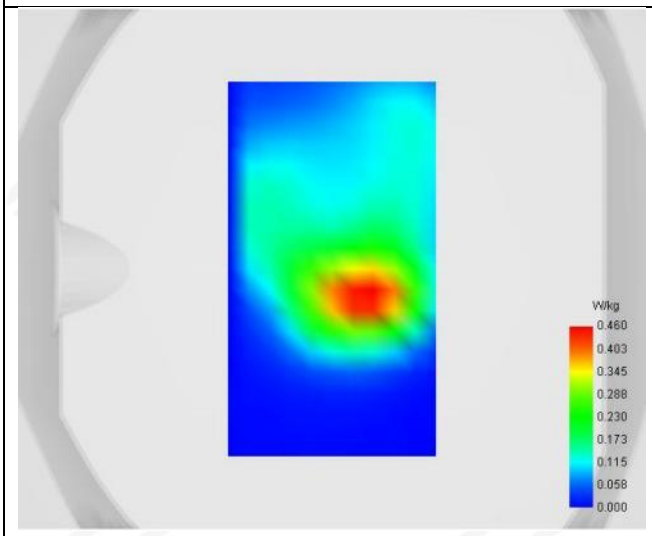
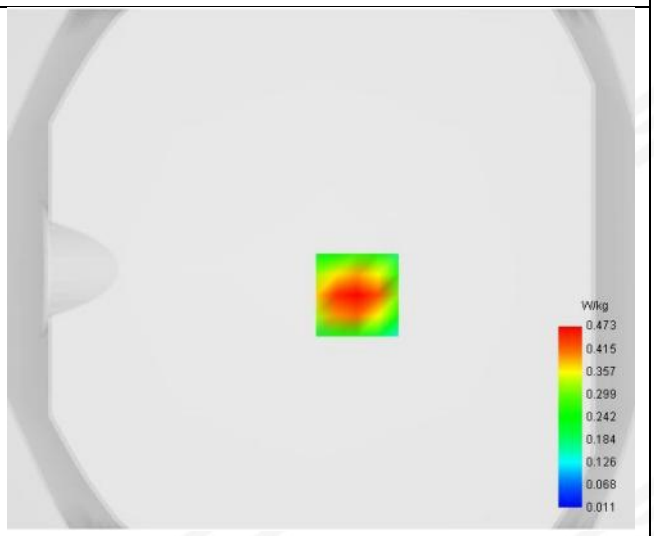
D. 3D Image

3D screen shot	Hot spot position
	

Plot 14: DUT: Smart Phone; EUT Model: Philips S8310

Test Date	2026-06-08
ConvF	1.54
Probe	SN 08/21 EPGO352
Area Scan	dx=15mm, dy=15mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	LTE Band 4 (RB 1)
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	1775
Relative permittivity (real part)	40.61
Conductivity (S/m)	1.39

A. SAR Surface and Volume

SURFACE SAR	VOLUME SAR
	

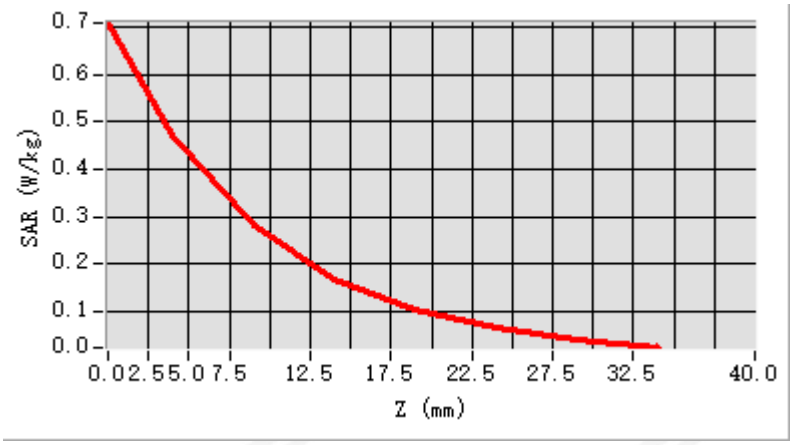
Maximum location: X=14.00, Y=-10.00 ; SAR Peak: 0.71 W/kg

B. SAR 1g & 10g

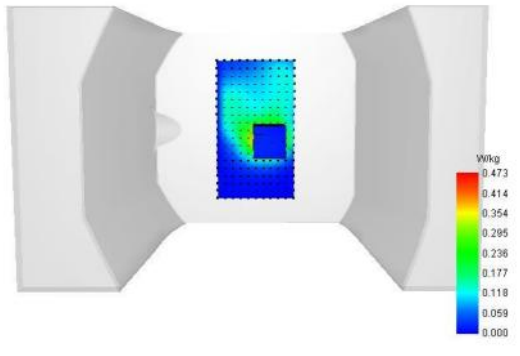
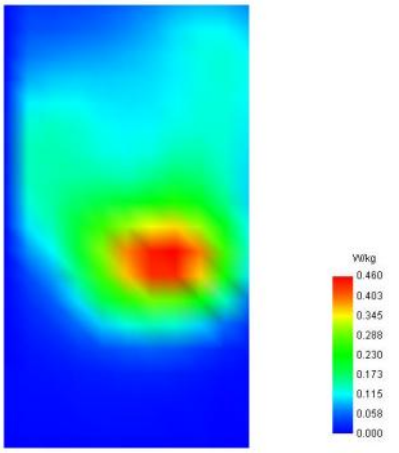
SAR 10g (W/Kg)	0.256
SAR 1g (W/Kg)	0.452
Horizontal validation criteria: minimum distance (mm)	17.888544
Vertical validation criteria: SAR ratio M2/M1 (%)	59.612697

C. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.709	0.473	0.282	0.170	0.105	0.066	0.040



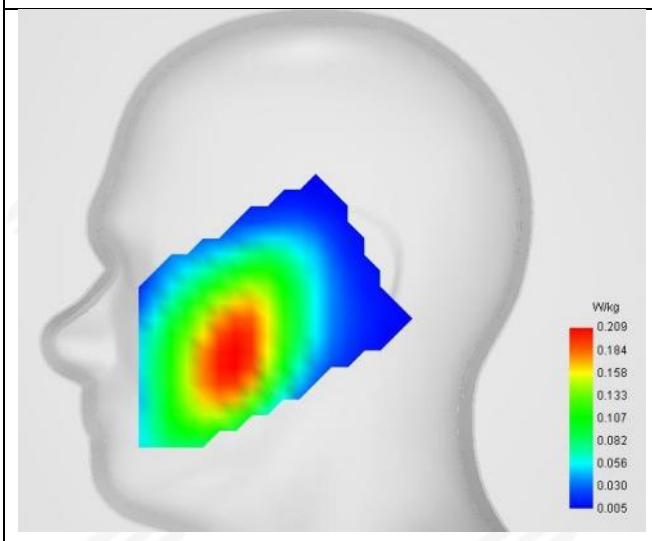
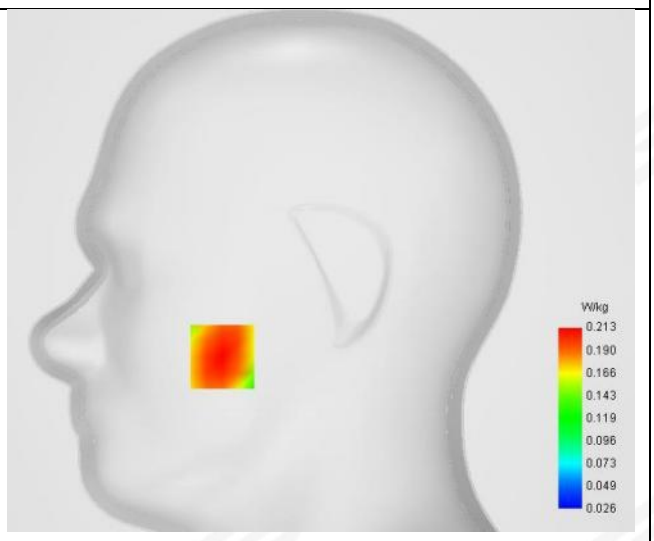
D 3D Image

3D screen shot	Hot spot position
	

Plot 15: DUT: Smart Phone; EUT Model: Philips S8310

Test Date	2026-06-07
ConvF	1.49
Probe	SN 08/21 EPGO352
Area Scan	dx=15mm, dy=15mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm
Phantom	Right Cheek
Device Position	Cheek
Band	LTE Band 5 (RB 1)
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	829
Relative permittivity (real part)	42.15
Conductivity (S/m)	0.90

A. SAR Surface and Volume

SURFACE SAR	VOLUME SAR
	

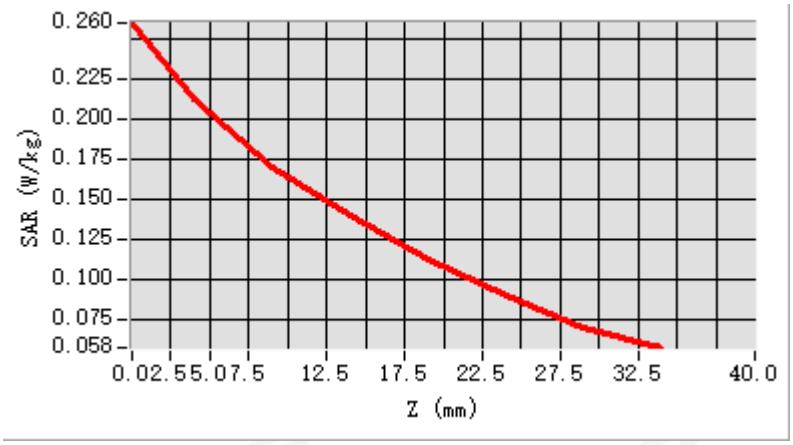
Maximum location: X=-49.00, Y=-43.00 ; SAR Peak: 0.26 W/kg

B. SAR 1g & 10g

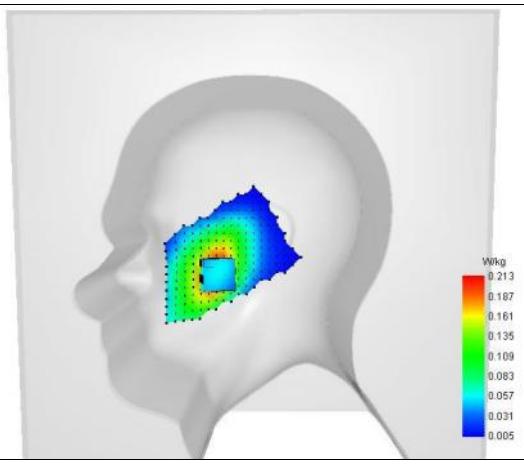
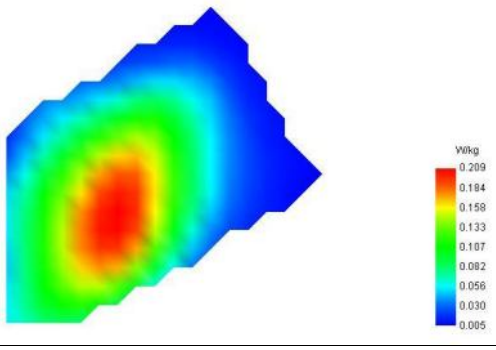
SAR 10g (W/Kg)	0.157
SAR 1g (W/Kg)	0.206
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

C. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.260	0.213	0.170	0.140	0.113	0.090	0.071



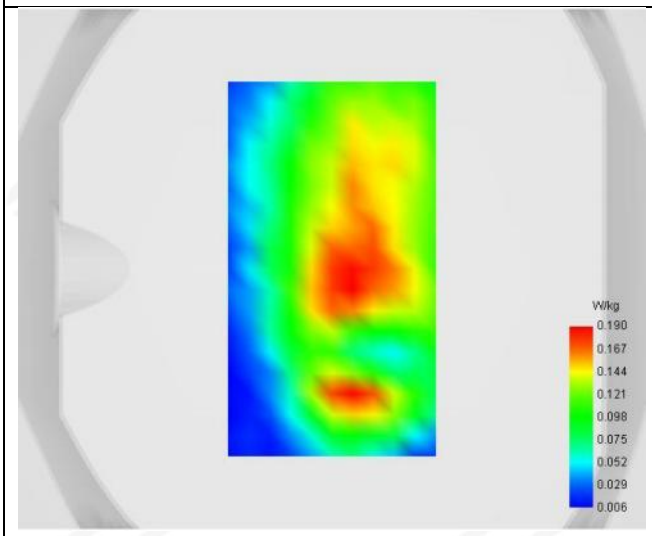
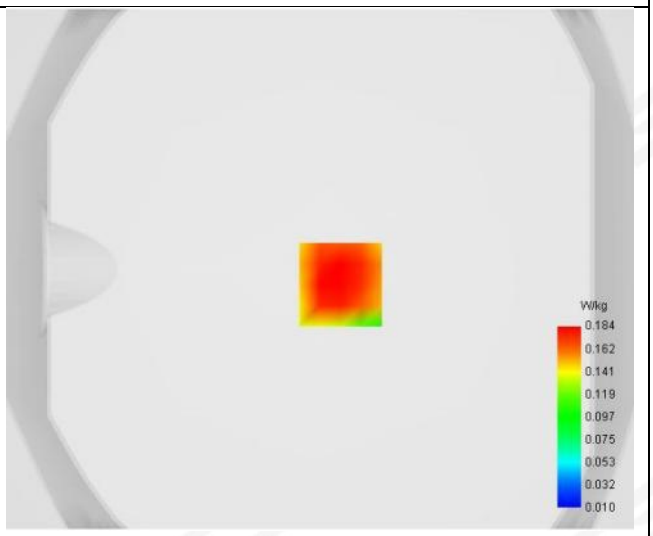
D. 3D Image

3D screen shot	Hot spot position
	

Plot 16: DUT: Smart Phone; EUT Model: Philips S8310

Test Date	2026-06-07
ConvF	1.49
Probe	SN 08/21 EPGO352
Area Scan	dx=15mm, dy=15mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	LTE Band 5 (RB 1)
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	829
Relative permittivity (real part)	42.15
Conductivity (S/m)	0.90

A. SAR Surface and Volume

SURFACE SAR	VOLUME SAR
	

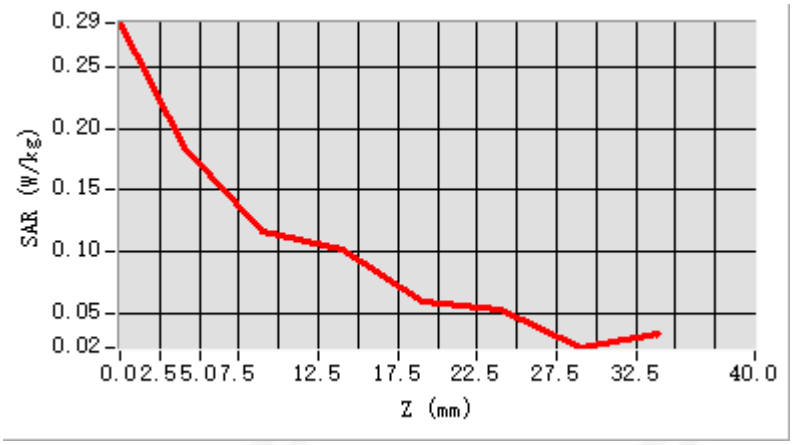
Maximum location: X=8.00, Y=-6.00 ; SAR Peak: 0.26 W/kg

B. SAR 1g & 10g

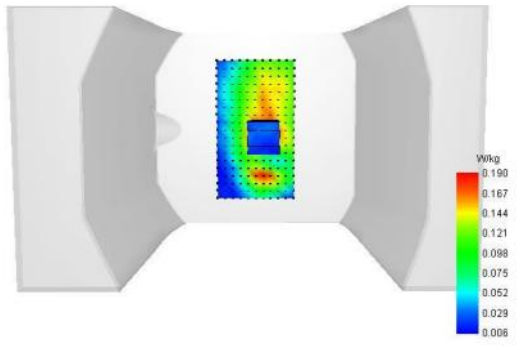
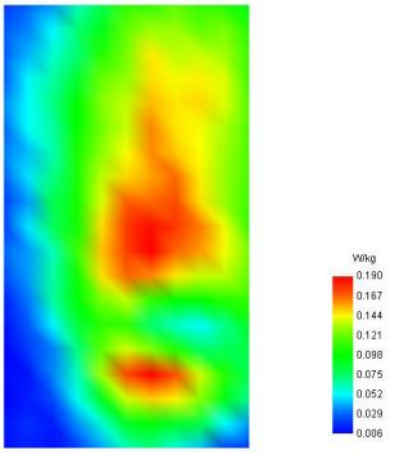
SAR 10g (W/Kg)	0.121
SAR 1g (W/Kg)	0.183
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

C. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.286	0.184	0.117	0.102	0.058	0.052	0.021



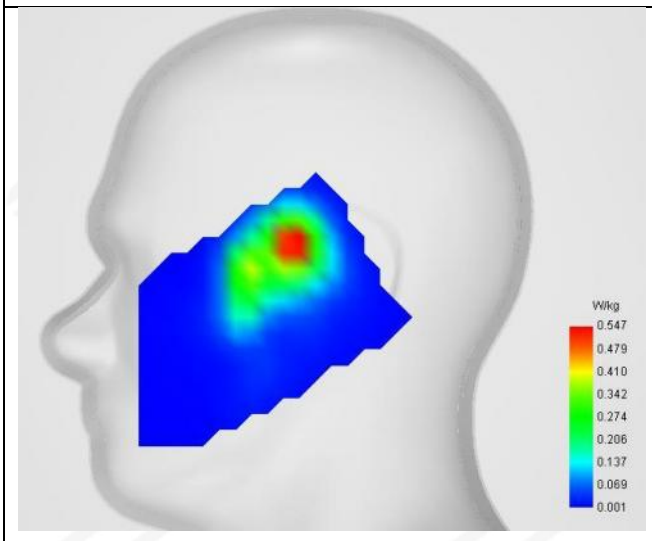
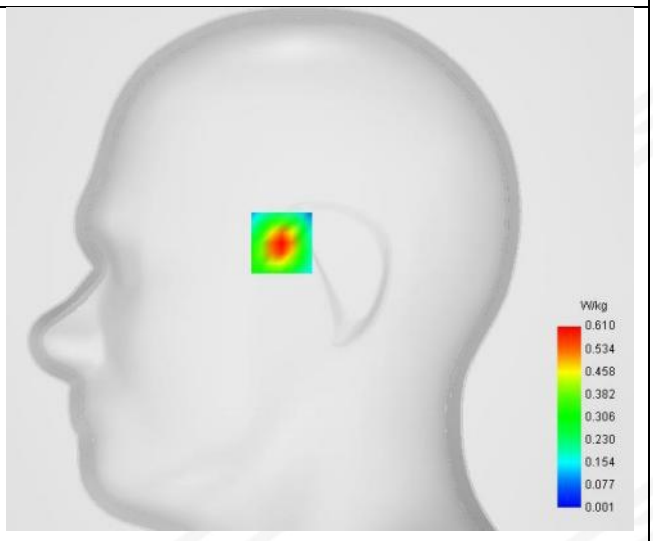
D. 3D Image

3D screen shot	Hot spot position
	

Plot 17: DUT: Smart Phone; EUT Model: Philips S8310

Test Date	2026-06-10
ConvF	1.70
Probe	SN 08/21 EPGO352
Area Scan	dx=12mm, dy=12mm, h= 5.00 mm
Zoom Scan	7x7x7, dx=5mm, dy=5mm, dz=5mm
Phantom	Right Cheek
Device Position	Cheek
Band	LTE Band 7 (RB 1)
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	2510
Relative permittivity (real part)	39.85
Conductivity (S/m)	1.87

A. SAR Surface and Volume

SURFACE SAR	VOLUME SAR
	

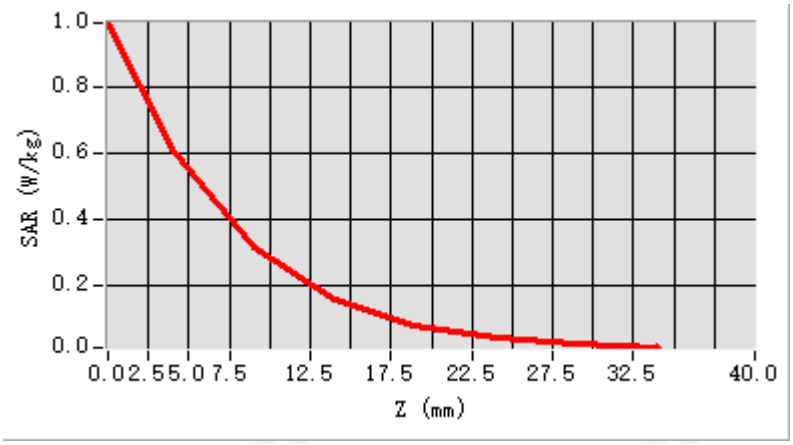
Maximum location: X=-19.00, Y=13.00 ; SAR Peak: 0.98 W/kg

B. SAR 1g & 10g

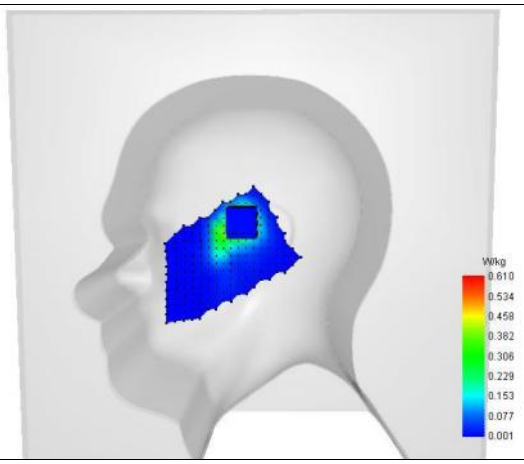
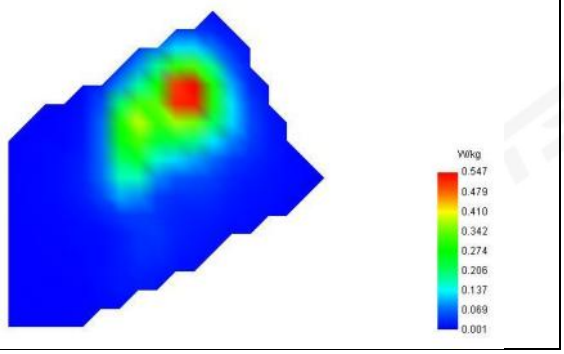
SAR 10g (W/Kg)	0.257
SAR 1g (W/Kg)	0.548
Horizontal validation criteria: minimum distance (mm)	11.180340
Vertical validation criteria: SAR ratio M2/M1 (%)	51.635358

C. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.992	0.610	0.315	0.156	0.077	0.041	0.020



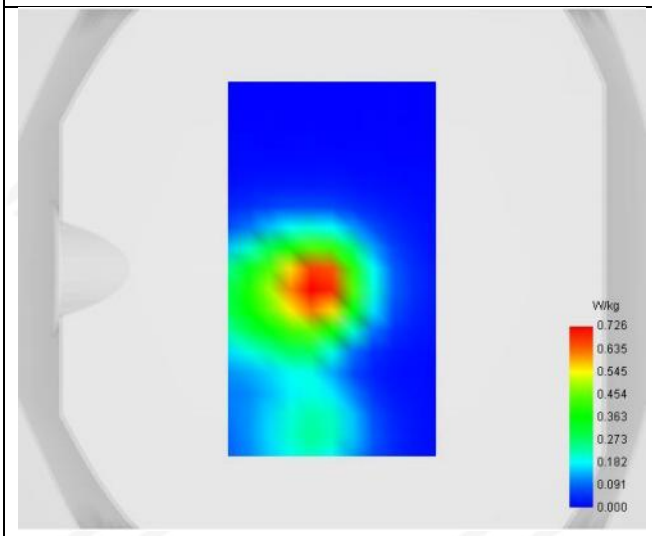
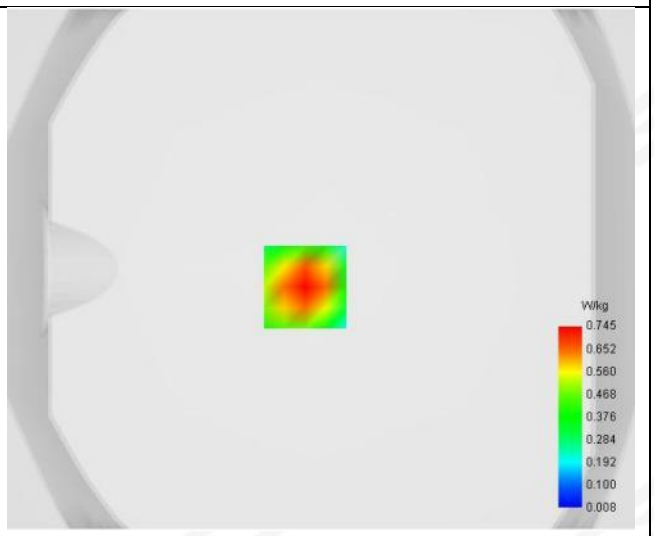
D. 3D Image

3D screen shot	Hot spot position
	

Plot 18: DUT: Smart Phone; EUT Model: Philips S8310

Test Date	2026-06-10
ConvF	1.70
Probe	SN 08/21 EPGO352
Area Scan	dx=12mm, dy=12mm, h= 5.00 mm
Zoom Scan	7x7x7, dx=5mm, dy=5mm, dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	LTE Band 7 (RB 1)
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	2510
Relative permittivity (real part)	39.85
Conductivity (S/m)	1.87

A. SAR Surface and Volume

SURFACE SAR	VOLUME SAR
	

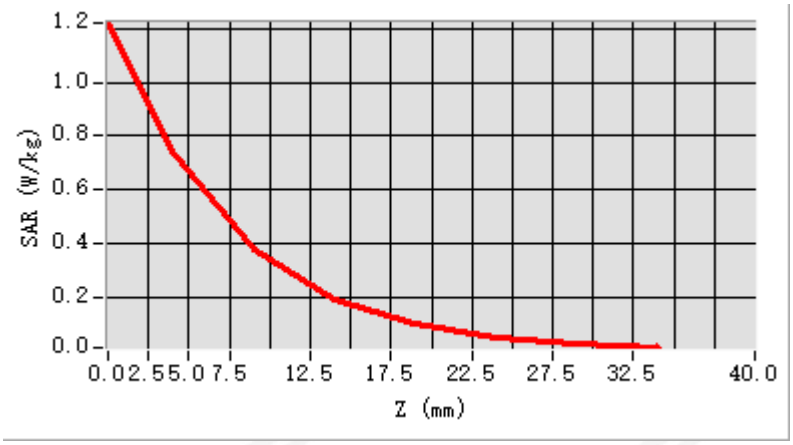
Maximum location: X=-6.00, Y=-7.00 ; SAR Peak: 1.22 W/kg

B. SAR 1g & 10g

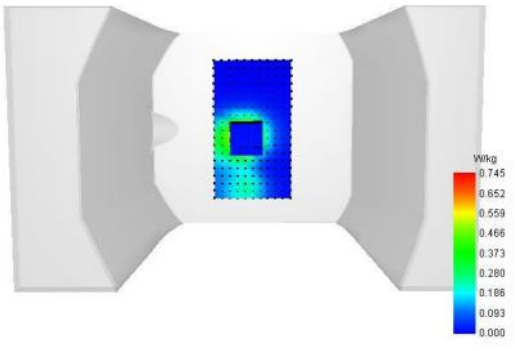
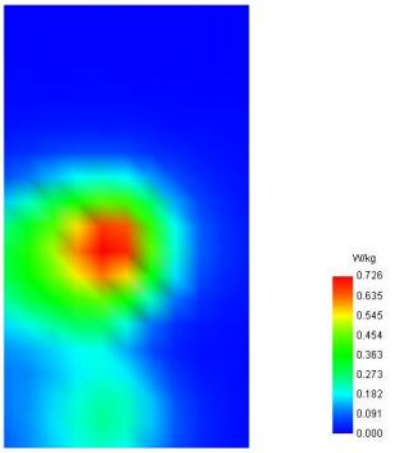
SAR 10g (W/Kg)	0.360
SAR 1g (W/Kg)	0.707
Horizontal validation criteria: minimum distance (mm)	17.888544
Vertical validation criteria: SAR ratio M2/M1 (%)	51.487406

C. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.219	0.745	0.383	0.198	0.104	0.055	0.032



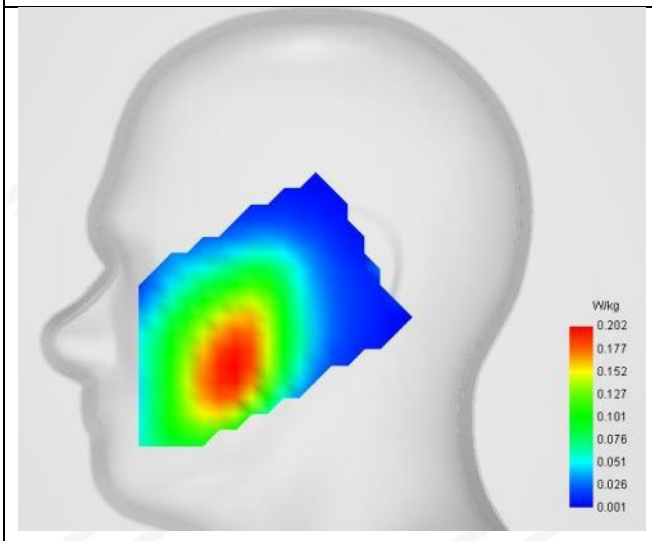
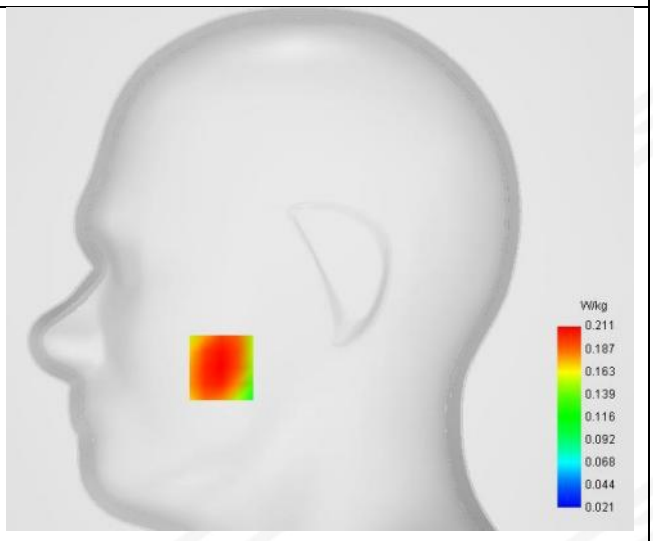
D. 3D Image

3D screen shot	Hot spot position
	

Plot 19: DUT: Smart Phone; EUT Model: Philips S8310

Test Date	2026-05-11
ConvF	1.51
Probe	SN 08/21 EPGO352
Area Scan	dx=15mm, dy=15mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm
Phantom	Right Cheek
Device Position	Cheek
Band	LTE Band 12 (RB 1)
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	711
Relative permittivity (real part)	42.22
Conductivity (S/m)	0.88

A. SAR Surface and Volume

SURFACE SAR	VOLUME SAR
	

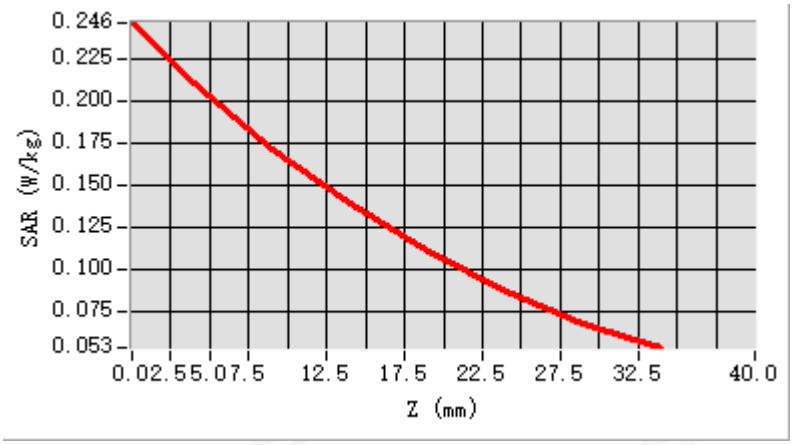
Maximum location: X=-49.00, Y=-49.00 ; SAR Peak: 0.25 W/kg

B. SAR 1g & 10g

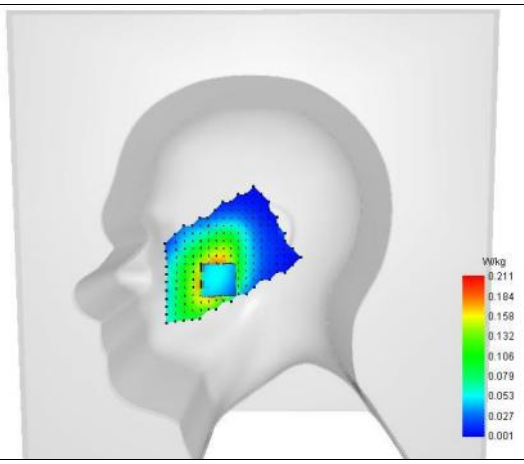
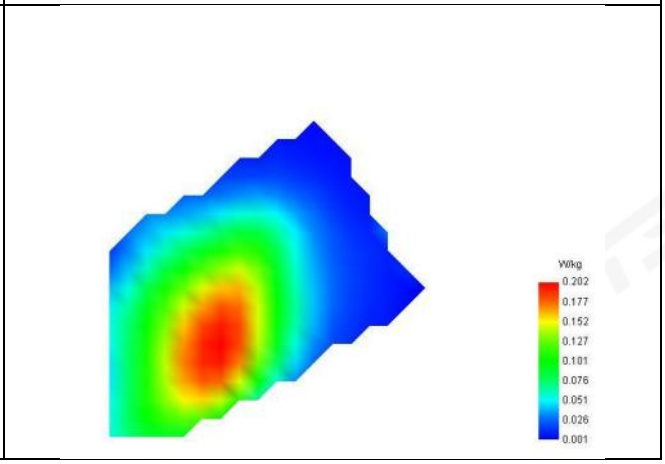
SAR 10g (W/Kg)	0.157
SAR 1g (W/Kg)	0.204
Horizontal validation criteria: minimum distance (mm)	22.627417
Vertical validation criteria: SAR ratio M2/M1 (%)	81.553312

C. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.246	0.211	0.172	0.139	0.110	0.087	0.068



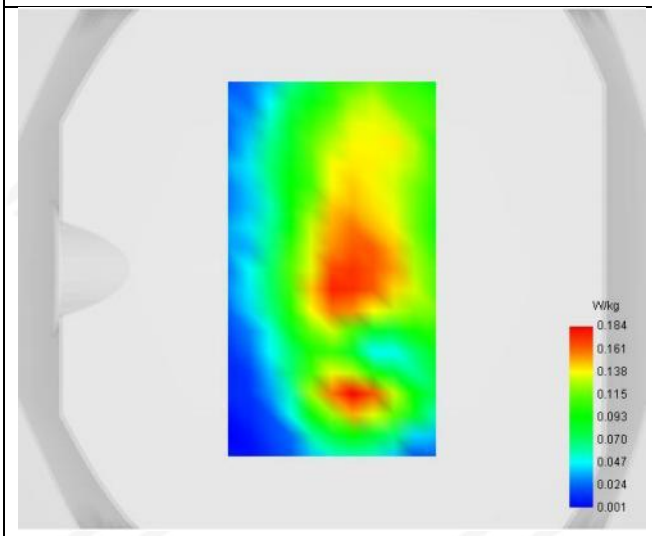
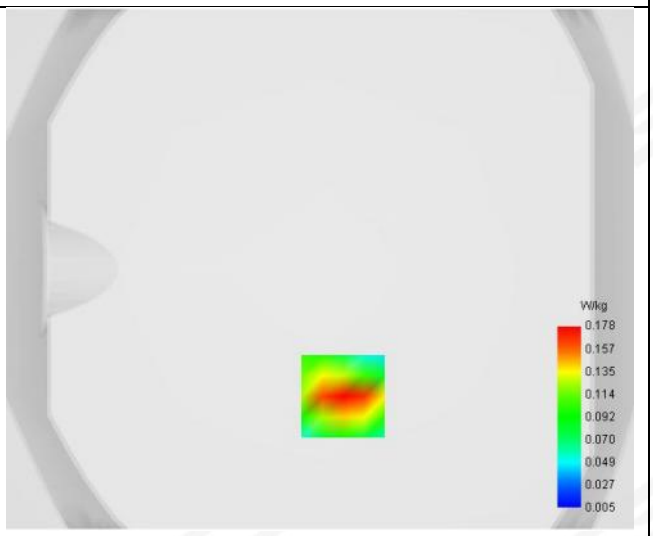
D. 3D Image

3D screen shot	Hot spot position
	

Plot 20: DUT: Smart Phone; EUT Model: Philips S8310

Test Date	2026-05-11
ConvF	1.51
Probe	SN 08/21 EPGO352
Area Scan	dx=15mm, dy=15mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	LTE Band 12 (RB 1)
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	711
Relative permittivity (real part)	42.22
Conductivity (S/m)	0.88

A. SAR Surface and Volume

SURFACE SAR	VOLUME SAR
	

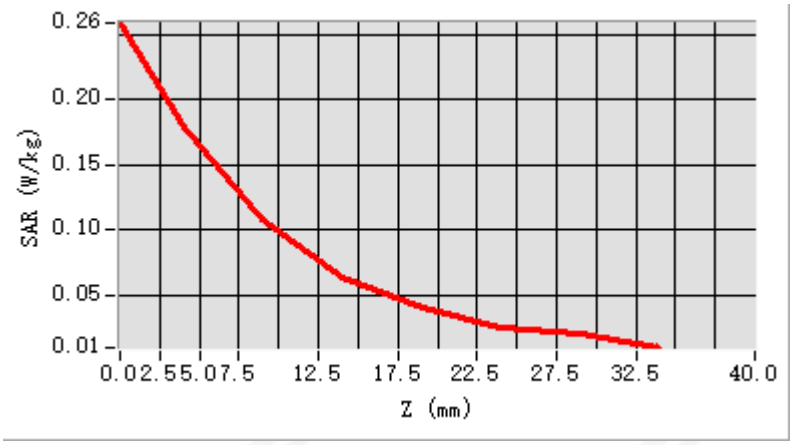
Maximum location: X=9.00, Y=-49.00 ; SAR Peak: 0.26 W/kg

B. SAR 1g & 10g

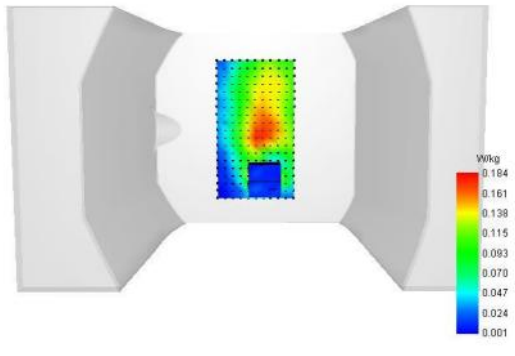
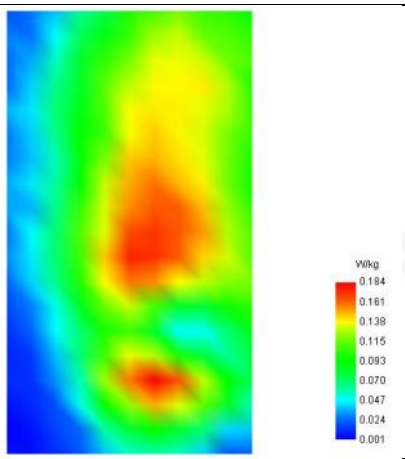
SAR 10g (W/Kg)	0.094
SAR 1g (W/Kg)	0.165
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	60.405879

C. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.259	0.178	0.108	0.064	0.041	0.025	0.020



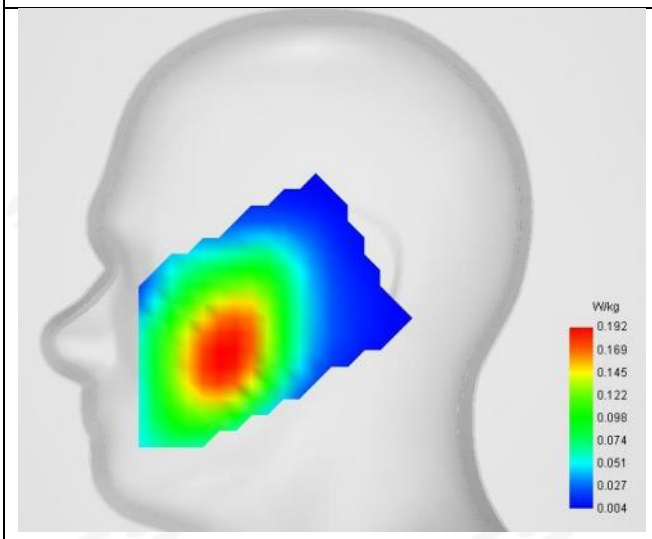
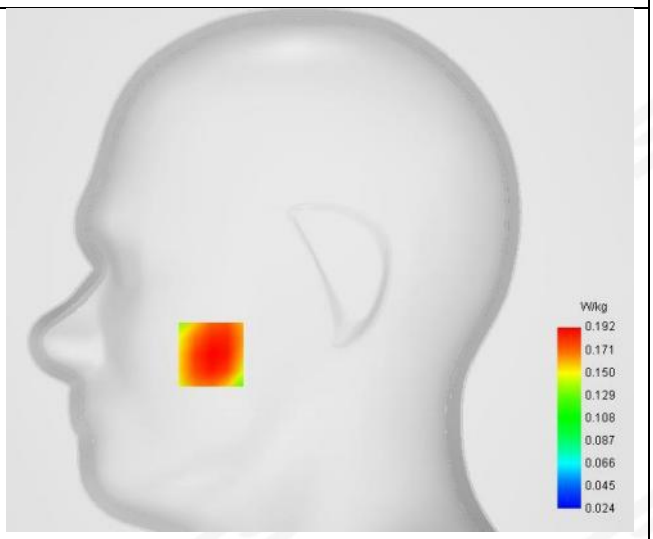
D. 3D Image

3D screen shot	Hot spot position
	

Plot 21: DUT: Smart Phone; EUT Model: Philips S8310

Test Date	2026-05-11
ConvF	1.51
Probe	SN 08/21 EPGO352
Area Scan	dx=15mm, dy=15mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm
Phantom	Right Cheek
Device Position	Cheek
Band	LTE Band 17 (RB 1)
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	709
Relative permittivity (real part)	42.10
Conductivity (S/m)	0.90

A. SAR Surface and Volume

SURFACE SAR	VOLUME SAR
	

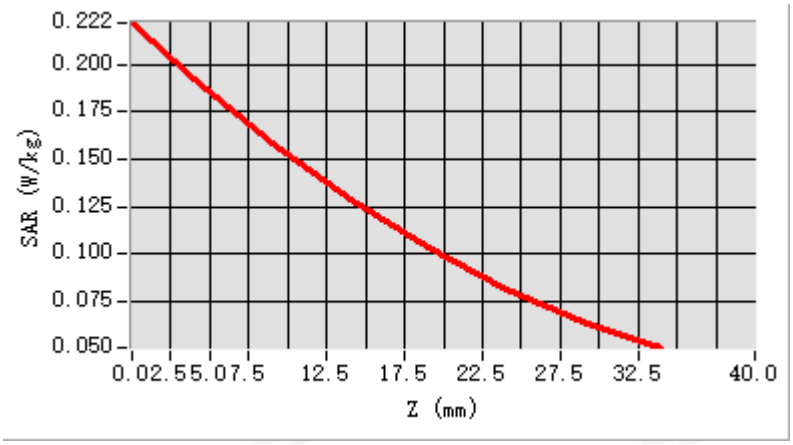
Maximum location: X=-54.00, Y=-42.00 ; SAR Peak: 0.23 W/kg

B. SAR 1g & 10g

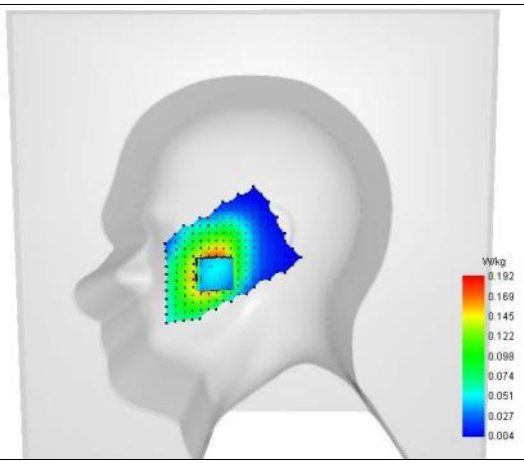
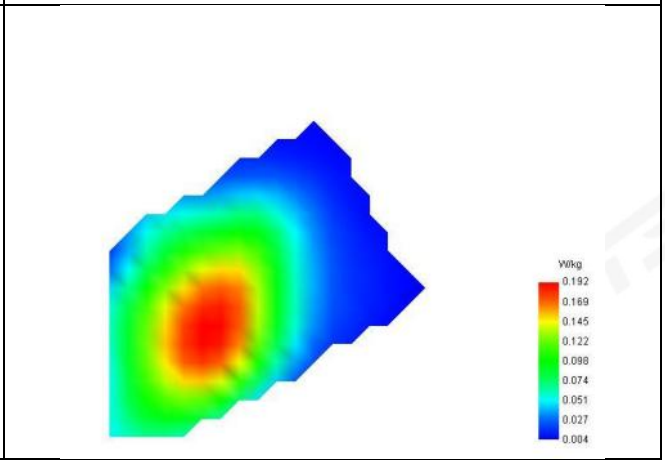
SAR 10g (W/Kg)	0.144
SAR 1g (W/Kg)	0.187
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

C. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.222	0.192	0.158	0.129	0.103	0.081	0.064



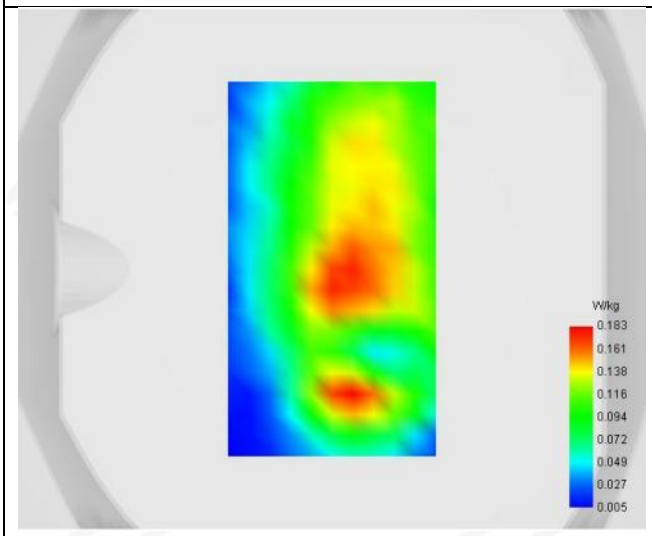
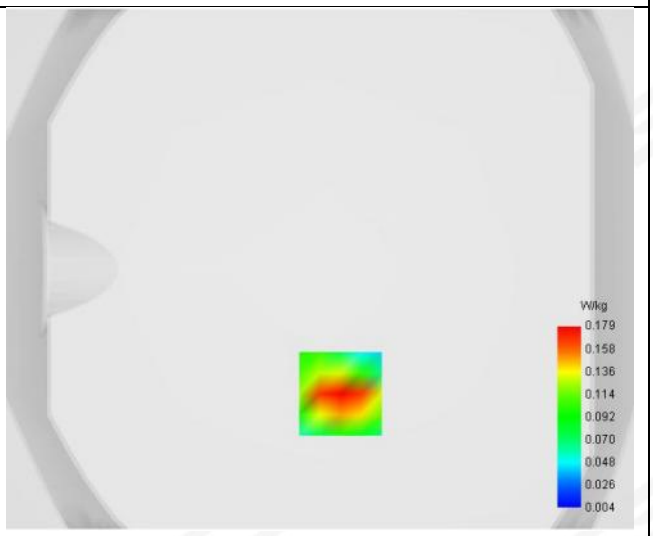
D. 3D Image

3D screen shot	Hot spot position
	

Plot 22: DUT: Smart Phone; EUT Model: Philips S8310

Test Date	2026-05-11
ConvF	1.51
Probe	SN 08/21 EPGO352
Area Scan	dx=15mm, dy=15mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	LTE Band 17 (RB 1)
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	709
Relative permittivity (real part)	42.10
Conductivity (S/m)	0.90

A. SAR Surface and Volume

SURFACE SAR	VOLUME SAR
	

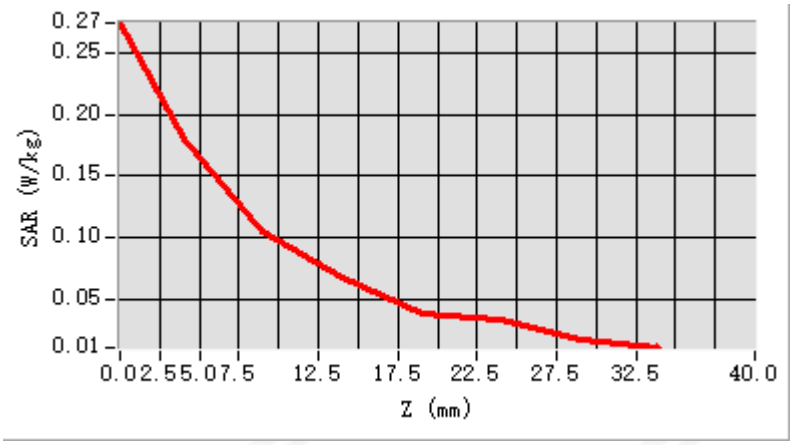
Maximum location: X=8.00, Y=-48.00 ; SAR Peak: 0.28 W/kg

B. SAR 1g & 10g

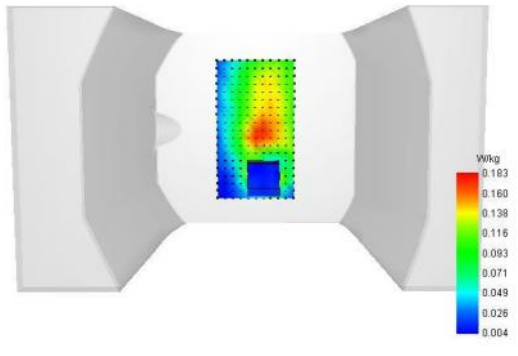
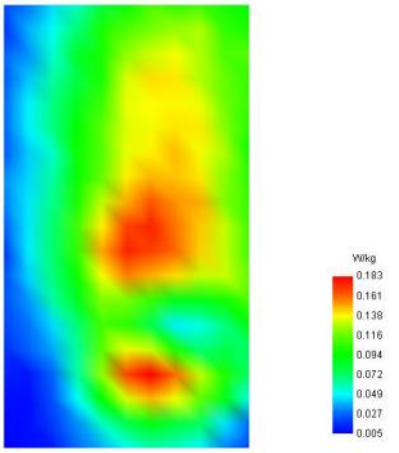
SAR 10g (W/Kg)	0.095
SAR 1g (W/Kg)	0.171
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	58.755706

C. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.274	0.179	0.105	0.068	0.039	0.034	0.017



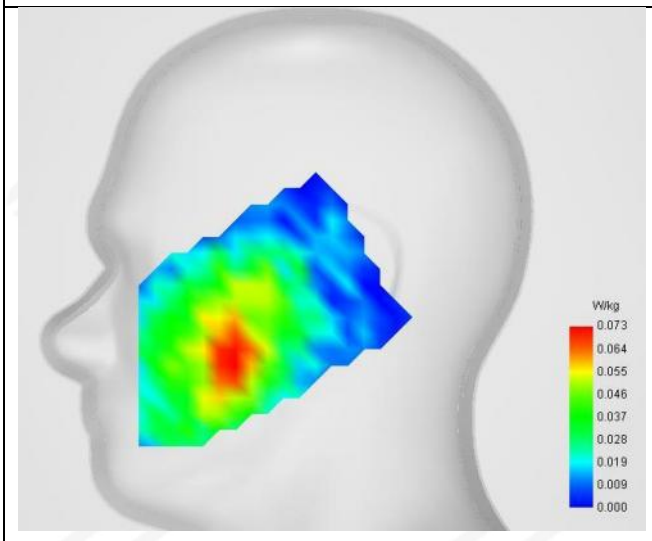
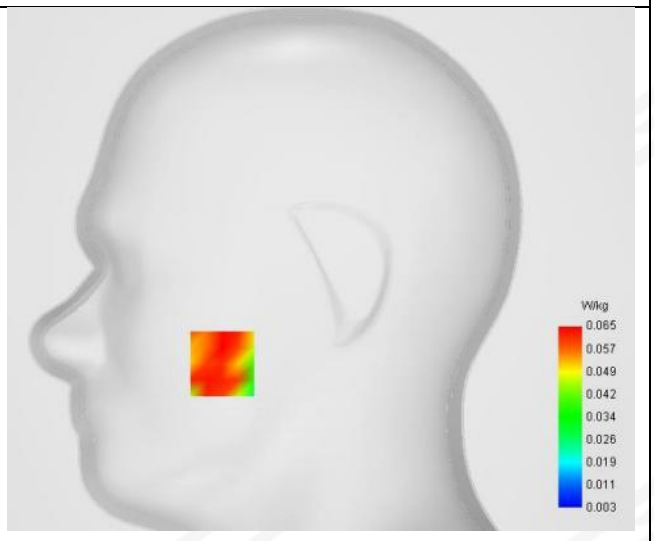
D. 3D Image

3D screen shot	Hot spot position
	

Plot 23: DUT: Smart Phone; EUT Model: Philips S8310

Test Date	2026-06-07
ConvF	1.49
Probe	SN 08/21 EPGO352
Area Scan	dx=15mm, dy=15mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm
Phantom	Right head
Device Position	Cheek
Band	LTE Band 26 (RB 1)
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	841.5
Relative permittivity (real part)	41.93
Conductivity (S/m)	0.89

A. SAR Surface and Volume

SURFACE SAR	VOLUME SAR
	

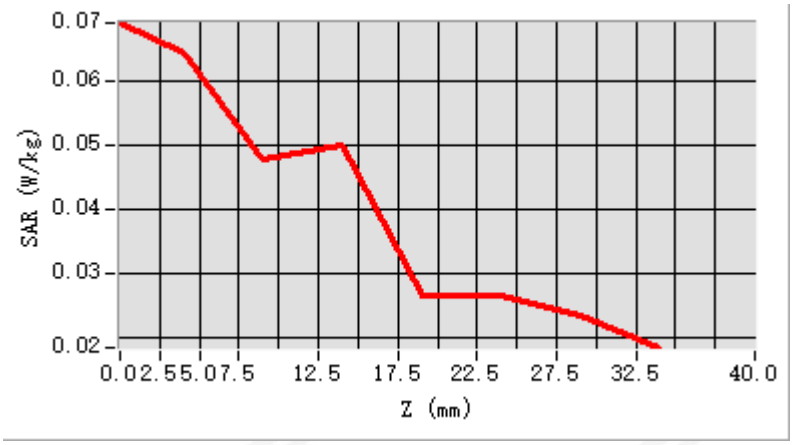
Maximum location: X=-49.00, Y=-47.00 ; SAR Peak: 0.09 W/kg

B. SAR 1g & 10g

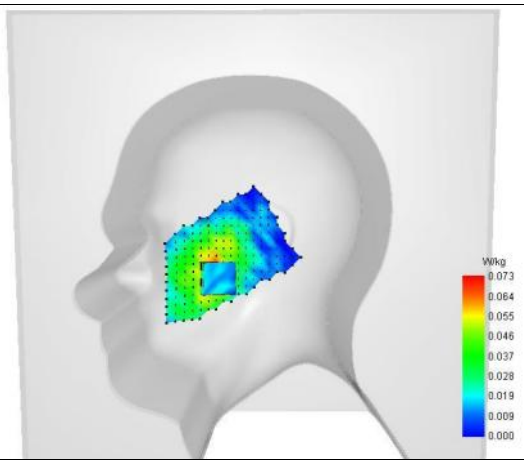
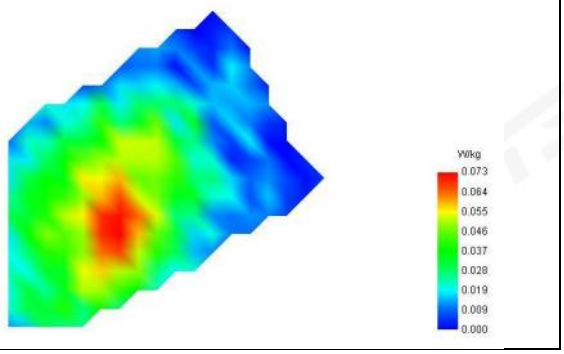
SAR 10g (W/Kg)	0.038
SAR 1g (W/Kg)	0.058
Horizontal validation criteria: minimum distance (mm)	28.844410
Vertical validation criteria: SAR ratio M2/M1 (%)	97.405169

C. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.069	0.065	0.048	0.050	0.027	0.027	0.024



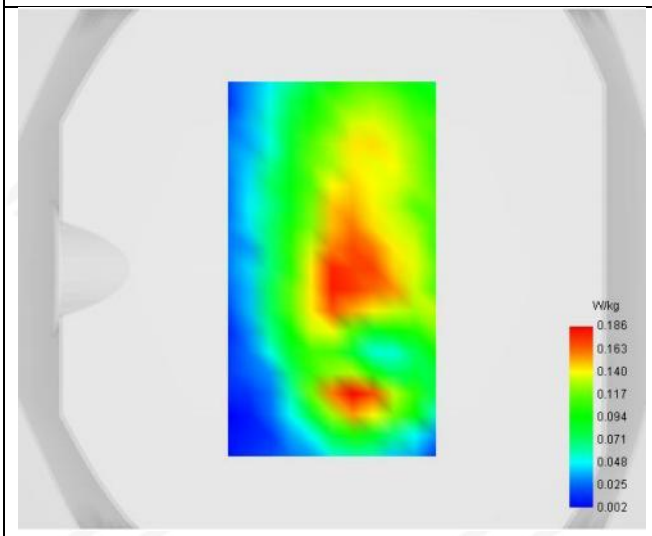
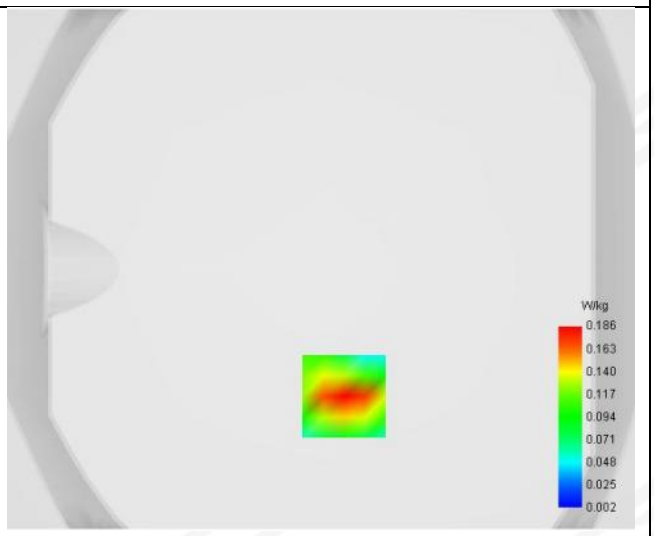
D. 3D Image

3D screen shot	Hot spot position
	

Plot 24: DUT: Smart Phone; EUT Model: Philips S8310

Test Date	2026-06-07
ConvF	1.49
Probe	SN 08/21 EPGO352
Area Scan	dx=15mm, dy=15mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	LTE Band 26 (RB 1)
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	841.5
Relative permittivity (real part)	41.93
Conductivity (S/m)	0.89

A. SAR Surface and Volume

SURFACE SAR	VOLUME SAR
	

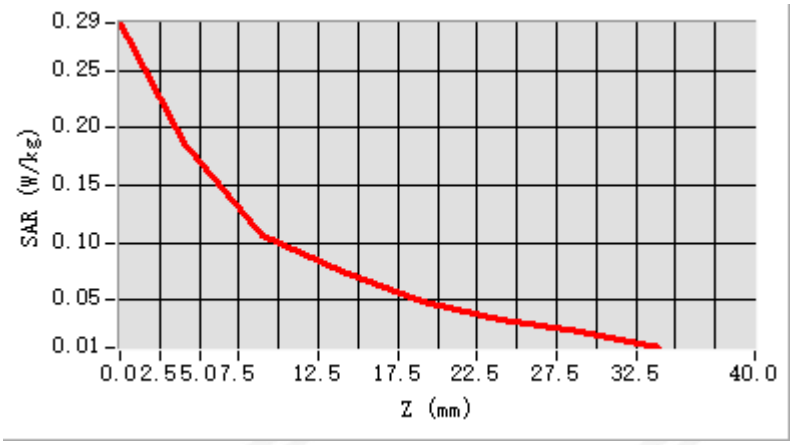
Maximum location: X=9.00, Y=-49.00 ; SAR Peak: 0.30 W/kg

B. SAR 1g & 10g

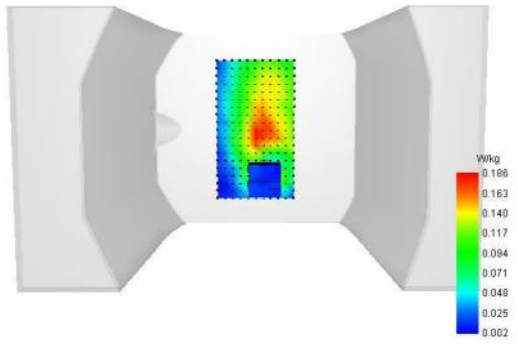
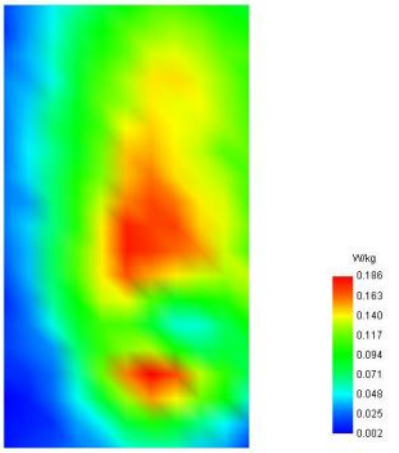
SAR 10g (W/Kg)	0.097
SAR 1g (W/Kg)	0.175
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	57.244819

C. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.291	0.186	0.106	0.075	0.049	0.034	0.023



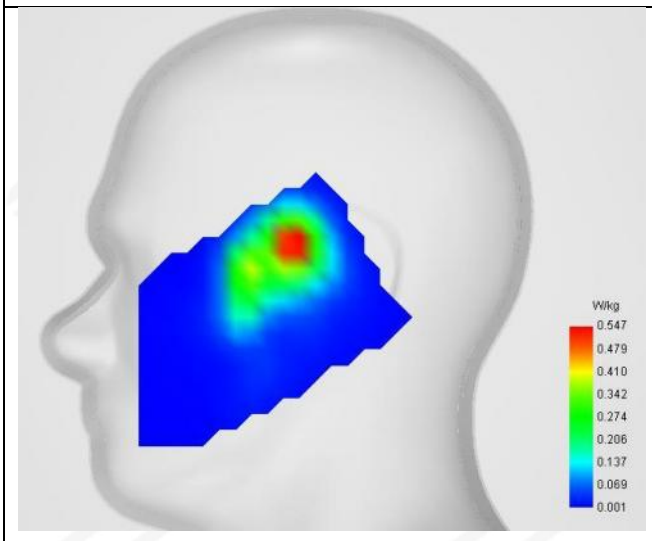
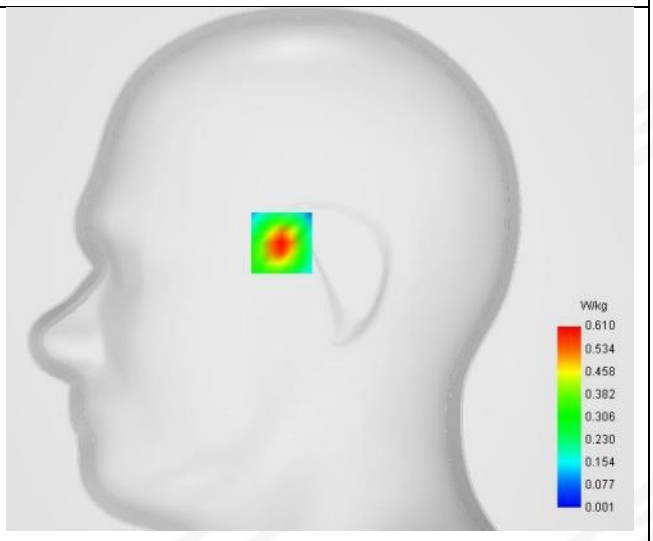
D. 3D Image

3D screen shot	Hot spot position
	

Plot 25: DUT: Smart Phone; EUT Model: Philips S8310

Test Date	2026-06-10
ConvF	1.70
Probe	SN 08/21 EPGO352
Area Scan	dx=12mm, dy=12mm, h= 5.00 mm
Zoom Scan	7x7x7, dx=5mm, dy=5mm, dz=5mm
Phantom	Right head
Device Position	Cheek
Band	LTE Band 38 (RB 1)
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	2595
Relative permittivity (real part)	38.67
Conductivity (S/m)	1.95

A. SAR Surface and Volume

SURFACE SAR	VOLUME SAR
	

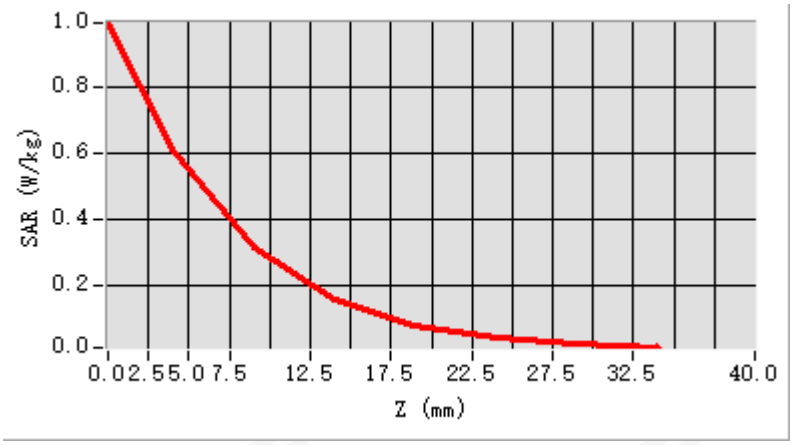
Maximum location: X=-19.00, Y=13.00 ; SAR Peak: 0.98 W/kg

B. SAR 1g & 10g

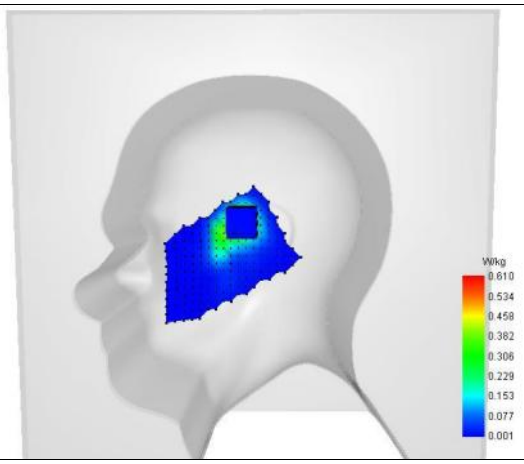
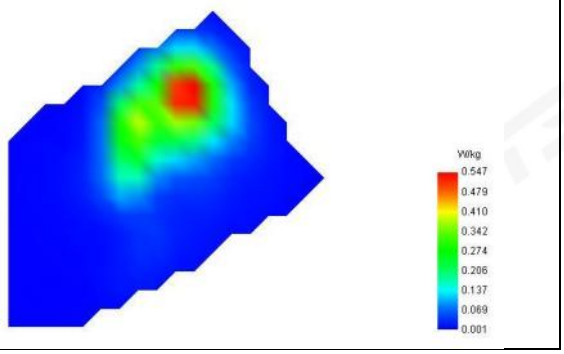
SAR 10g (W/Kg)	0.257
SAR 1g (W/Kg)	0.548
Horizontal validation criteria: minimum distance (mm)	11.180340
Vertical validation criteria: SAR ratio M2/M1 (%)	51.635358

C. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.992	0.610	0.315	0.156	0.077	0.041	0.020



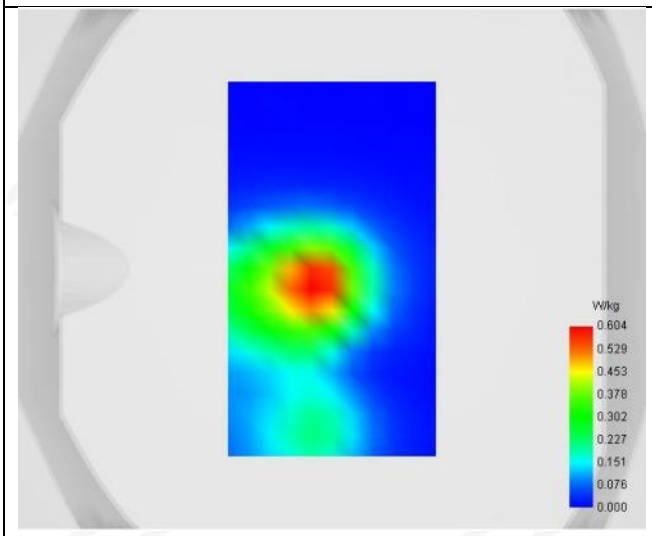
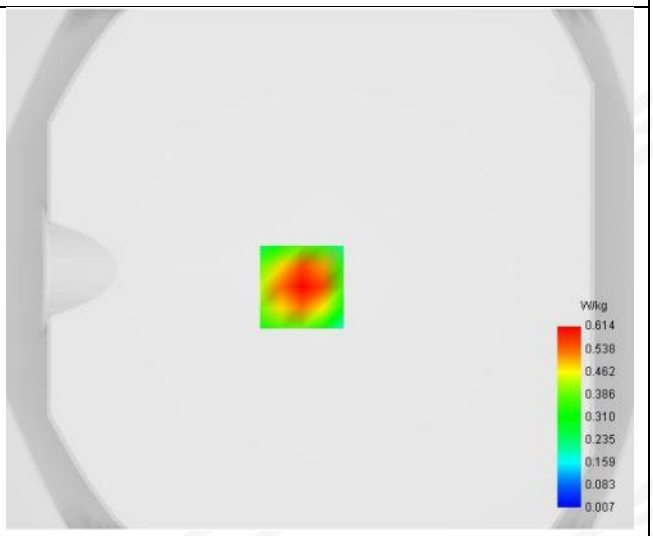
D. 3D Image

3D screen shot	Hot spot position
	

Plot 26: DUT: Smart Phone; EUT Model: Philips S8310

Test Date	2026-06-10
ConvF	1.70
Probe	SN 08/21 EPGO352
Area Scan	dx=12mm, dy=12mm, h= 5.00 mm
Zoom Scan	7x7x7, dx=5mm, dy=5mm, dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	LTE Band 38 (RB 1)
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	2595
Relative permittivity (real part)	38.67
Conductivity (S/m)	1.95

A. SAR Surface and Volume

SURFACE SAR	VOLUME SAR
	

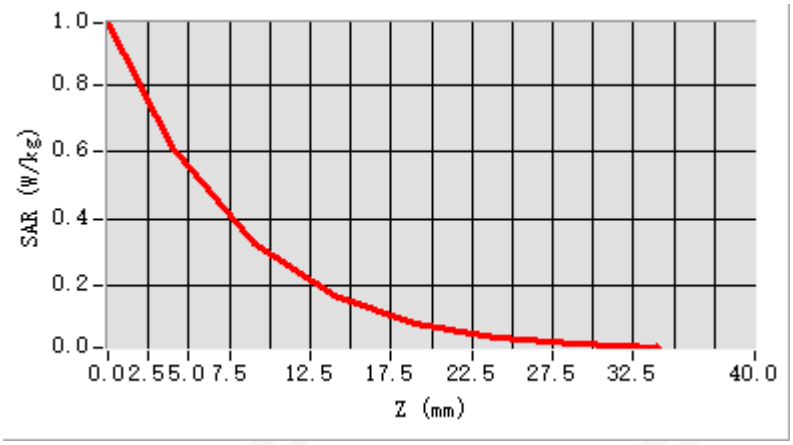
Maximum location: X=-7.00, Y=-7.00 ; SAR Peak: 1.00 W/kg

B. SAR 1g & 10g

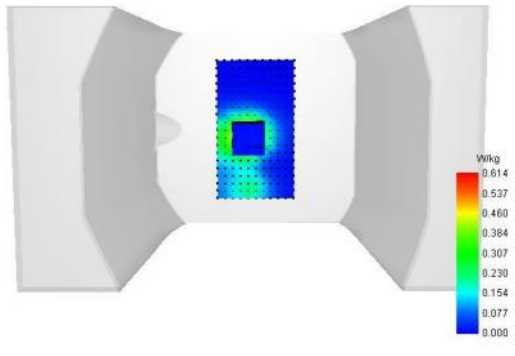
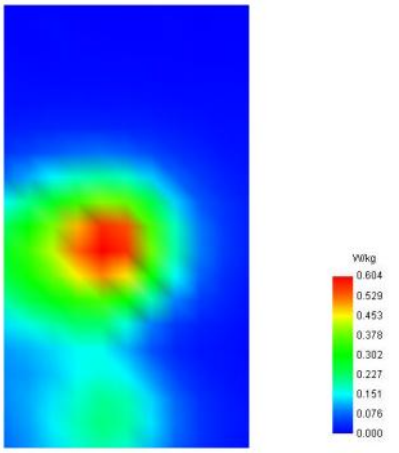
SAR 10g (W/Kg)	0.303
SAR 1g (W/Kg)	0.586
Horizontal validation criteria: minimum distance (mm)	17.888544
Vertical validation criteria: SAR ratio M2/M1 (%)	52.995472

C. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.986	0.614	0.325	0.171	0.090	0.048	0.026



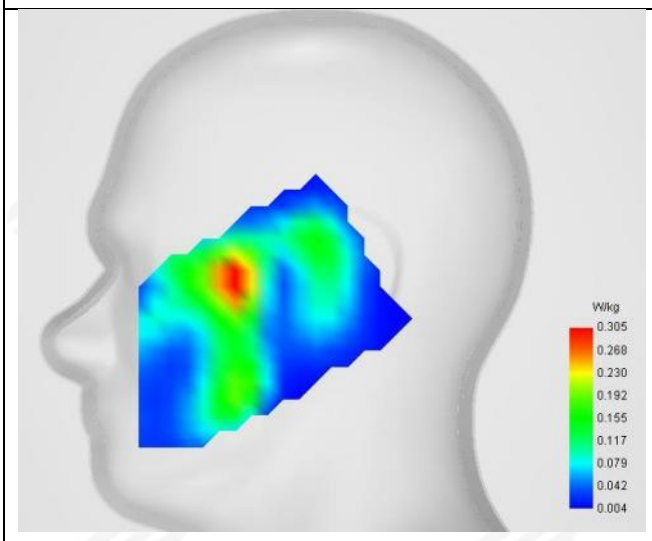
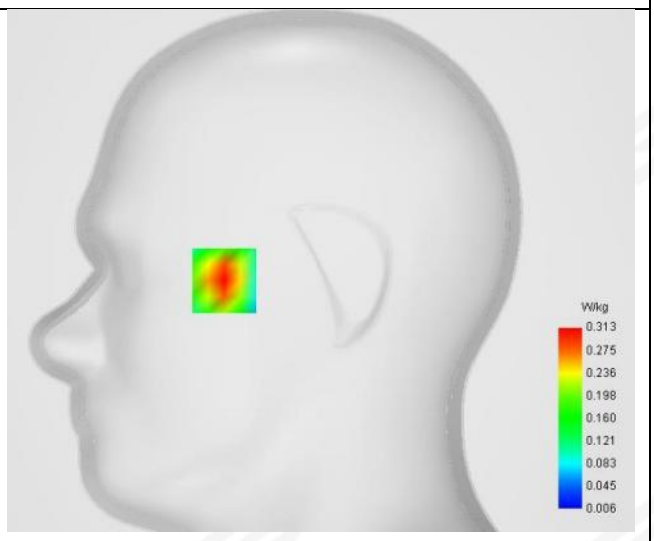
D. 3D Image

3D screen shot	Hot spot position
	

Plot 27: DUT: Smart Phone; EUT Model: Philips S8310

Test Date	2026-06-10
ConvF	1.70
Probe	SN 08/21 EPGO352
Area Scan	dx=12mm, dy=12mm, h= 5.00 mm
Zoom Scan	7x7x7, dx=5mm, dy=5mm, dz=5mm
Phantom	Right head
Device Position	Cheek
Band	LTE Band 41 (RB 1)
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	2549.5
Relative permittivity (real part)	39.59
Conductivity (S/m)	1.91

A. SAR Surface and Volume

SURFACE SAR	VOLUME SAR
	

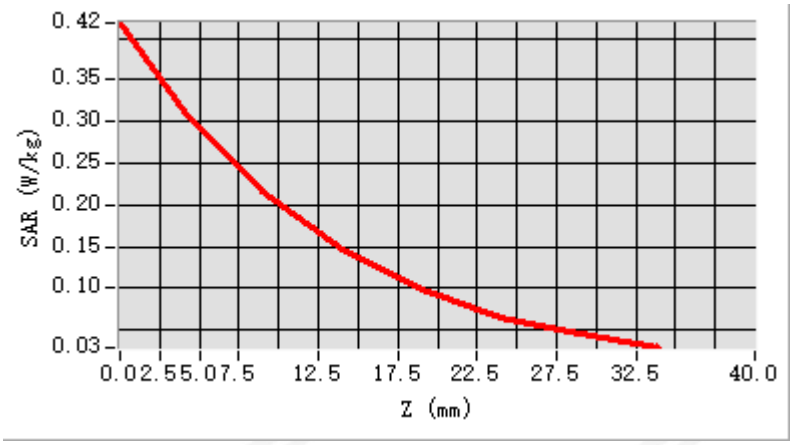
Maximum location: X=-48.00, Y=-5.00 ; SAR Peak: 0.43 W/kg

B. SAR 1g & 10g

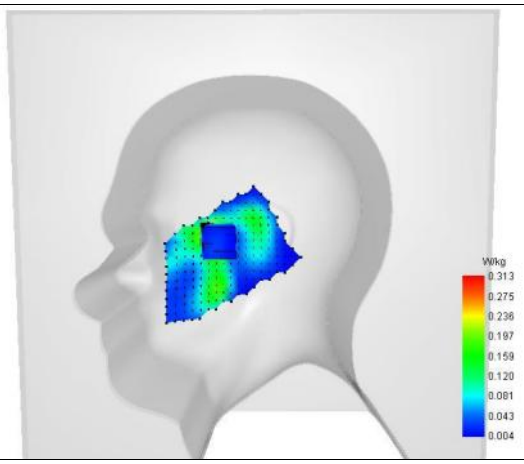
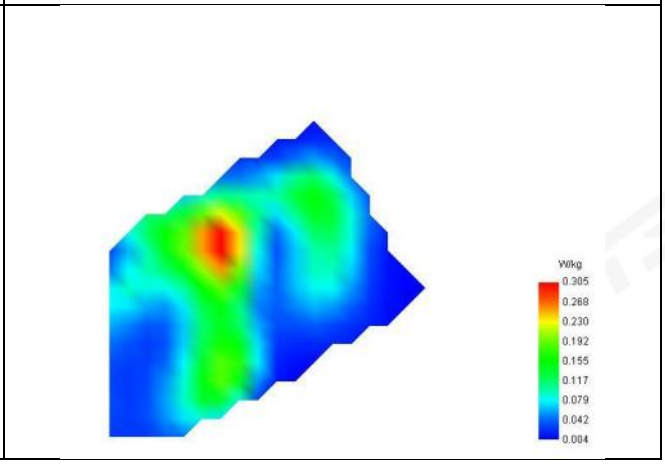
SAR 10g (W/Kg)	0.172
SAR 1g (W/Kg)	0.292
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	68.800547

C. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.418	0.313	0.215	0.146	0.100	0.066	0.045



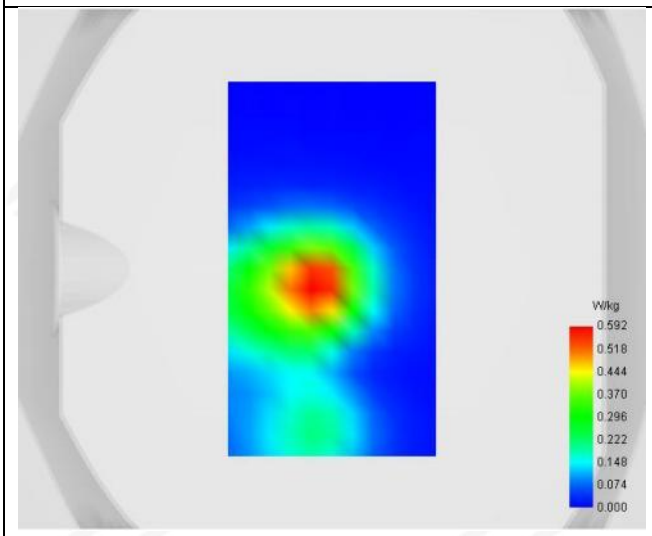
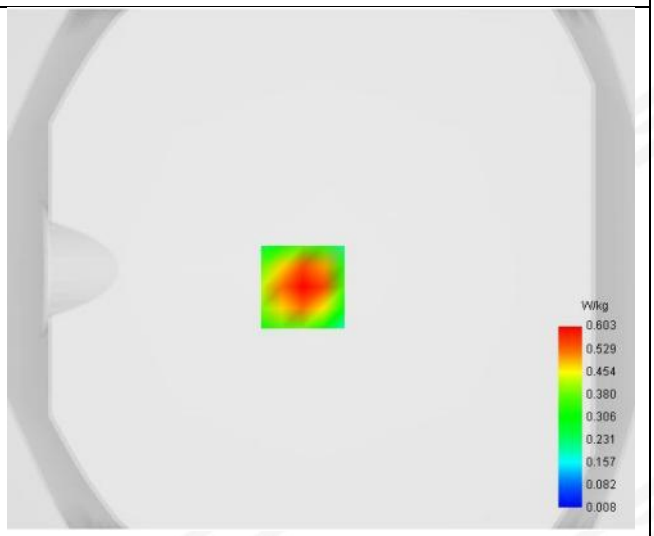
D. 3D Image

3D screen shot	Hot spot position
	

Plot 28: DUT: Smart Phone; EUT Model: Philips S8310

Test Date	2026-06-10
ConvF	1.70
Probe	SN 08/21 EPGO352
Area Scan	dx=12mm, dy=12mm, h= 5.00 mm
Zoom Scan	7x7x7, dx=5mm, dy=5mm, dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	LTE Band 41 (RB 1)
Signal	LTE (Cr est factor: 1.0)
Frequency (MHz)	2549.5
Relative permittivity (real part)	39.59
Conductivity (S/m)	1.91

A. SAR Surface and Volume

SURFACE SAR	VOLUME SAR
	

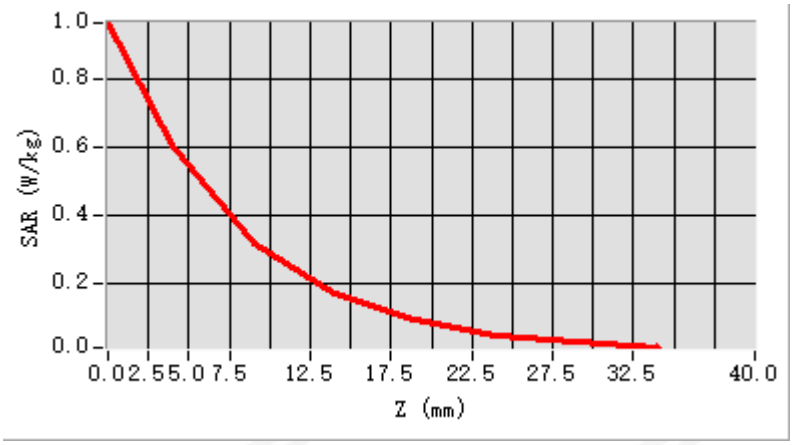
Maximum location: X=-7.00, Y=-7.00 ; SAR Peak: 0.98 W/kg

B. SAR 1g & 10g

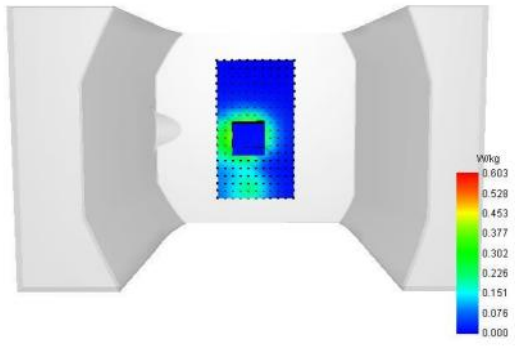
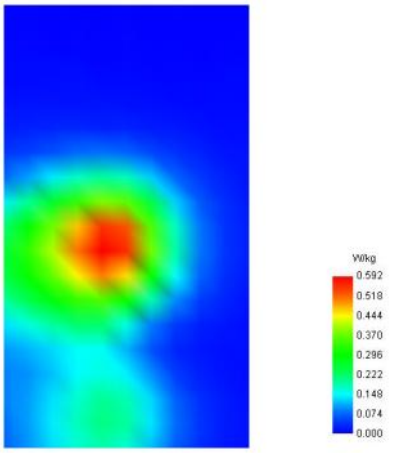
SAR 10g (W/Kg)	0.299
SAR 1g (W/Kg)	0.576
Horizontal validation criteria: minimum distance (mm)	17.888544
Vertical validation criteria: SAR ratio M2/M1 (%)	53.031100

C. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.965	0.603	0.320	0.169	0.091	0.047	0.028



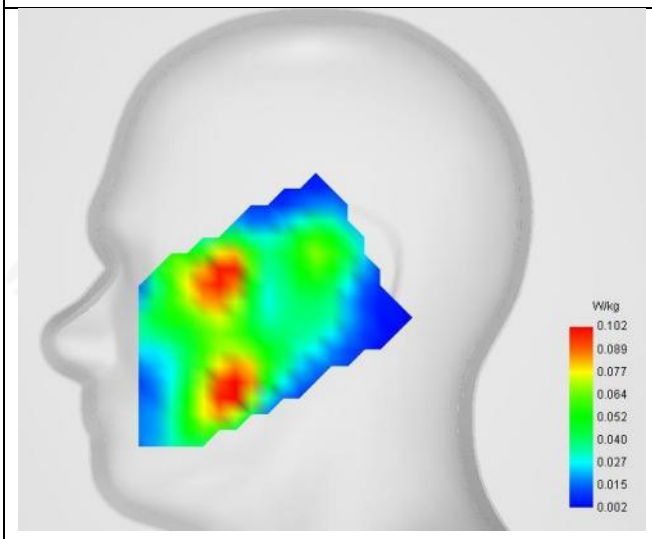
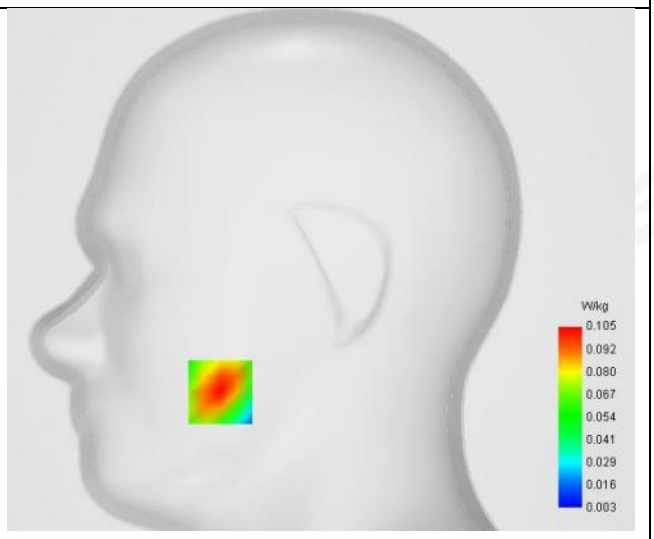
D. 3D Image

3D screen shot	Hot spot position
	

Plot 29: DUT: Smart Phone; EUT Model: Philips S8310

Test Date	2026-06-08
ConvF	1.54
Probe	SN 08/21 EPGO352
Area Scan	dx=15mm, dy=15mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm
Phantom	Right head
Band	LTE Band 66 (RB 1)
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	1720
Relative permittivity (real part)	39.92
Conductivity (S/m)	1.36

A. SAR Surface and Volume

SURFACE SAR	VOLUME SAR
	

Maximum location: X=-50.00, Y=-61.00 ; SAR Peak: 0.14 W/kg

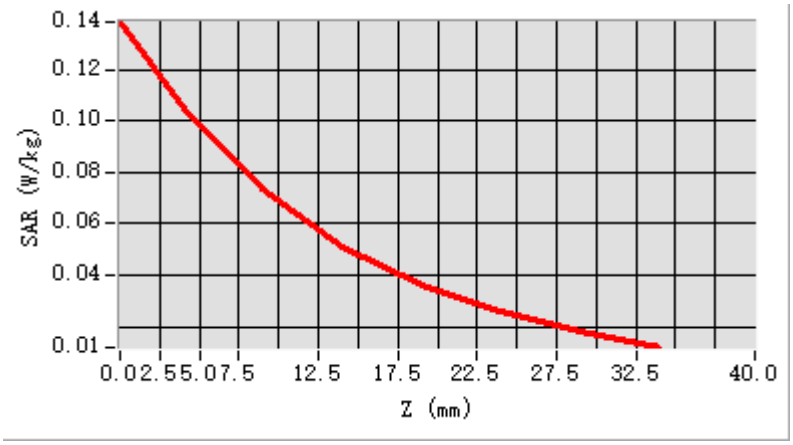
B. SAR 1g & 10g

SAR 10g (W/Kg)	0.062

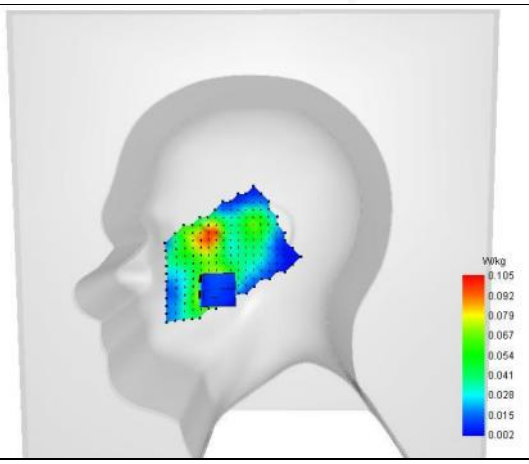
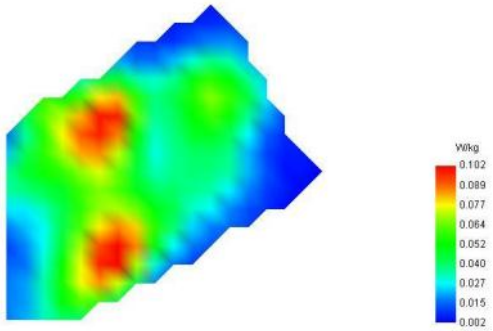
SAR 1g (W/Kg)	0.098
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	70.009556

C. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.138	0.105	0.074	0.051	0.036	0.026	0.018



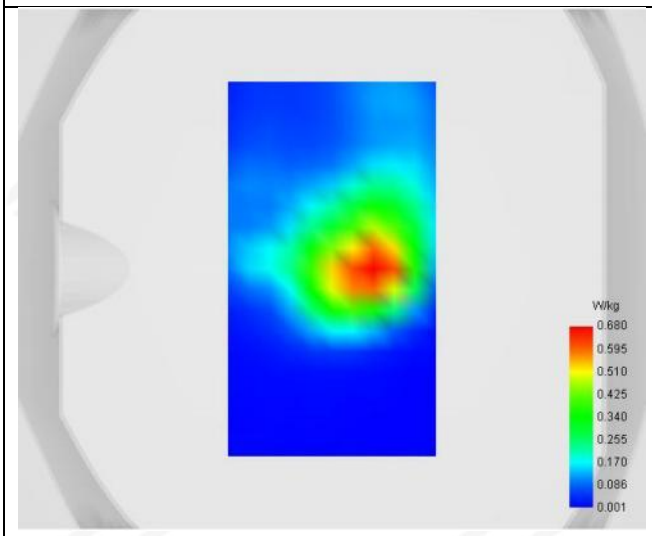
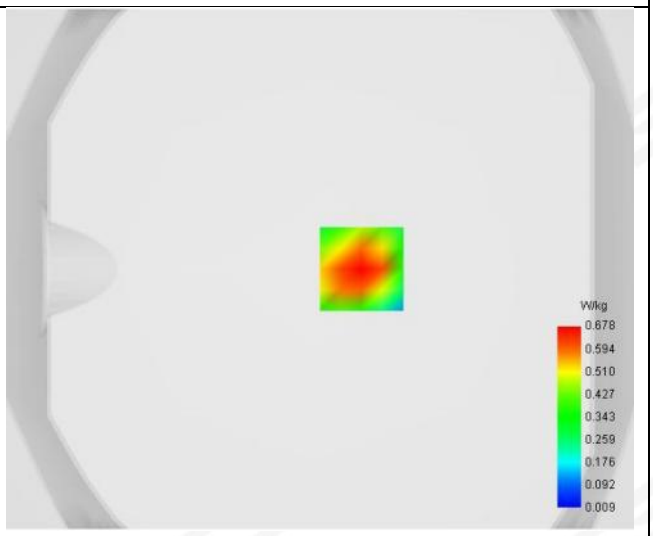
D. 3D Image

3D screen shot	Hot spot position
	

Plot 30: DUT: Smart Phone; EUT Model: Philips S8310

Test Date	2026-06-08
ConvF	1.54
Probe	SN 08/21 EPGO352
Area Scan	dx=15mm, dy=15mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	LTE Band 66 (RB 1)
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	1720
Relative permittivity (real part)	39.92
Conductivity (S/m)	1.36

A. SAR Surface and Volume

SURFACE SAR	VOLUME SAR
	

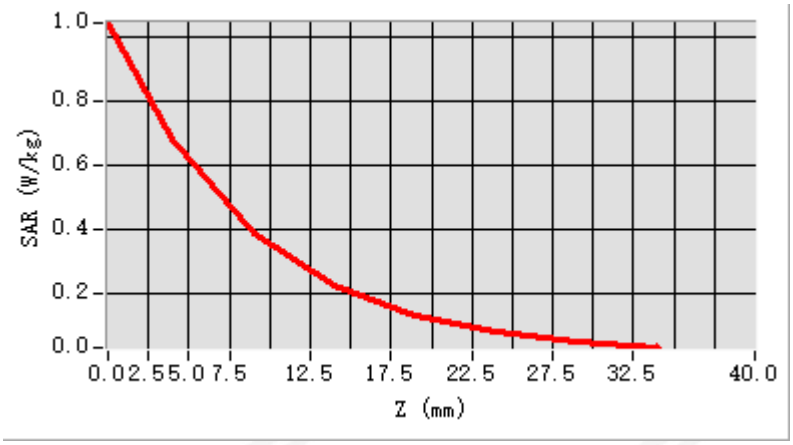
Maximum location: X=16.00, Y=0.00 ; SAR Peak: 1.07 W/kg

B. SAR 1g & 10g

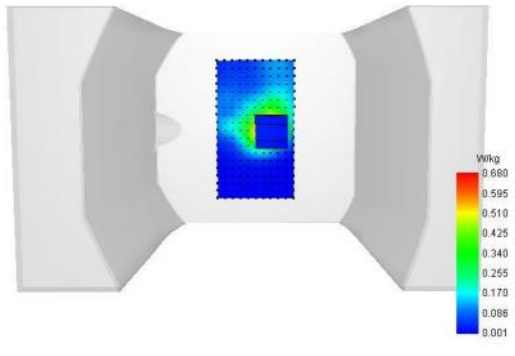
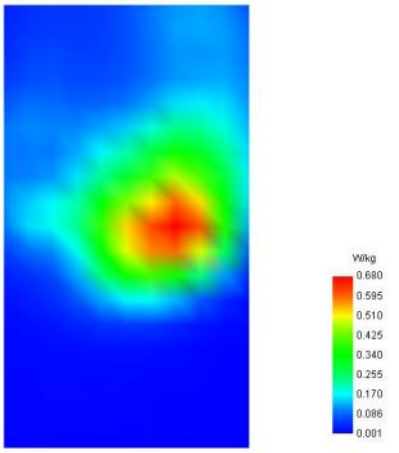
SAR 10g (W/Kg)	0.350
SAR 1g (W/Kg)	0.646
Horizontal validation criteria: minimum distance (mm)	17.888544
Vertical validation criteria: SAR ratio M2/M1 (%)	57.097798

C. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.044	0.678	0.387	0.223	0.131	0.078	0.046



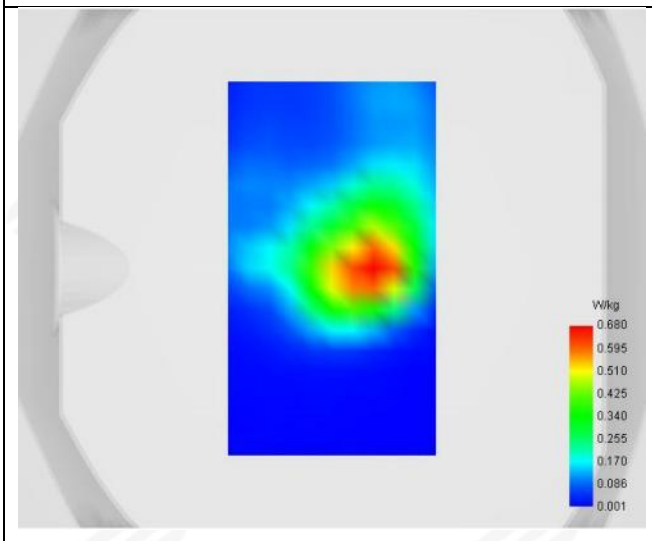
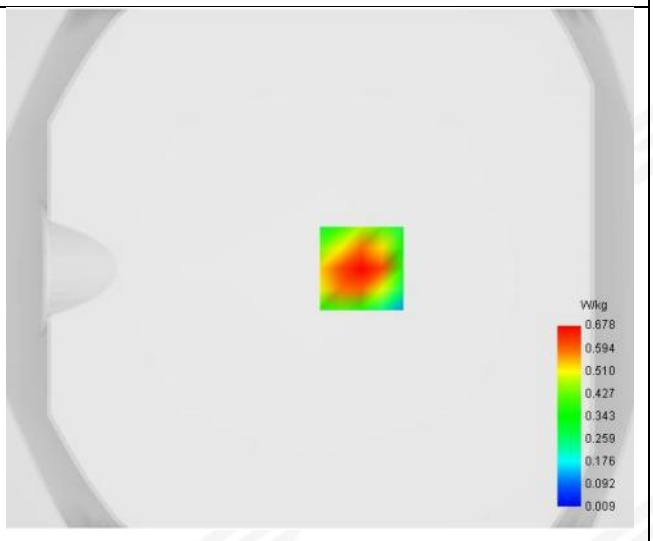
D. 3D Image

3D screen shot	Hot spot position
	

Plot 31: DUT: Smart Phone; EUT Model: Philips S8310

Test Date	2026-06-09
	1.82
Probe	SN 08/21 EPGO352
Area Scan	dx=12mm, dy=12mm, h= 5.00 mm
Zoom Scan	7x7x7, dx=5mm, dy=5mm, dz=5mm
Phantom	Right Cheek
Device Position	Cheek
Band	IEEE 802.11b ISM
Signal	IEEE802.b (Crest factor: 1.0)
Frequency (MHz)	2462
Relative permittivity (real part)	39.97
Conductivity (S/m)	1.79

A. SAR Surface and Volume

SURFACE SAR	VOLUME SAR
	

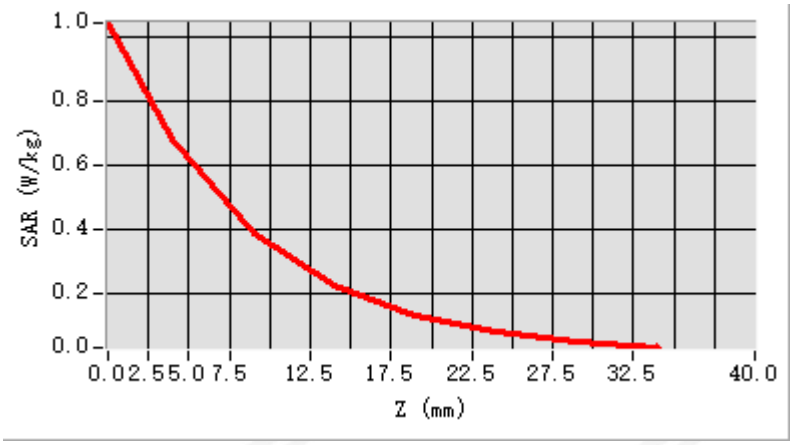
Maximum location: X=16.00, Y=0.00 ; SAR Peak: 1.07 W/kg

B. SAR 1g & 10g

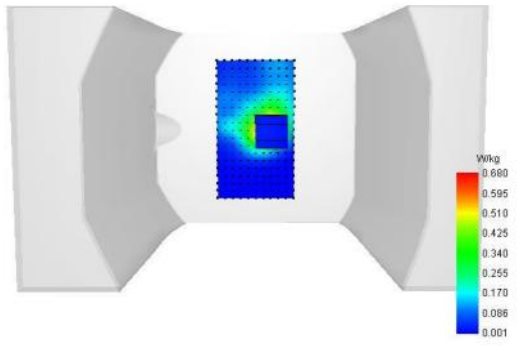
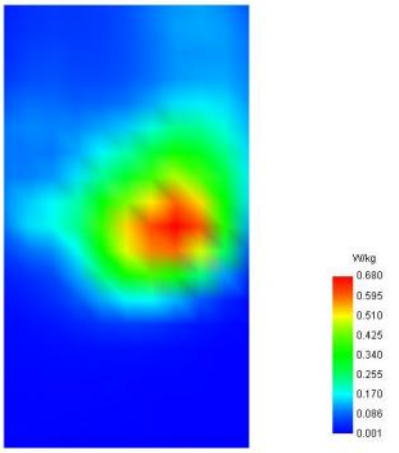
SAR 10g (W/Kg)	0.350
SAR 1g (W/Kg)	0.646
Horizontal validation criteria: minimum distance (mm)	17.888544
Vertical validation criteria: SAR ratio M2/M1 (%)	57.097798

C. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.044	0.678	0.387	0.223	0.131	0.078	0.046



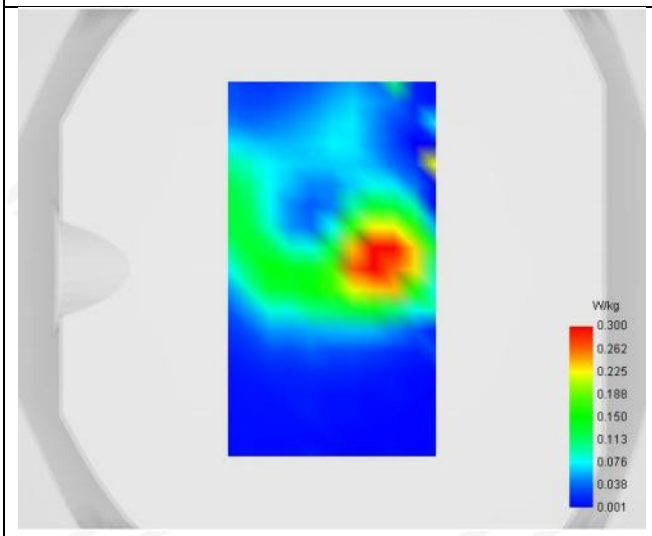
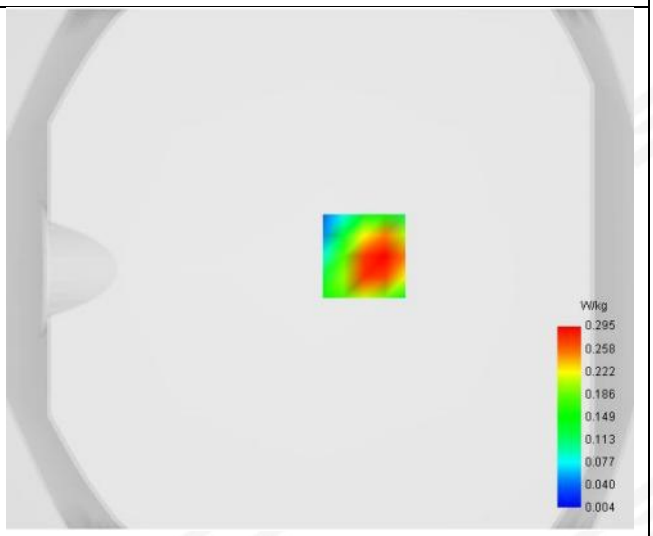
D. 3D Image

3D screen shot	Hot spot position
	

Plot 32: DUT: Smart Phone; EUT Model: Philips S8310

Test Date	2026-06-09
ConvF	1.82
Probe	SN 08/21 EPGO352
Area Scan	dx=12mm, dy=12mm, h= 5.00 mm
Zoom Scan	7x7x7, dx=5mm, dy=5mm, dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	IEEE 802.11b ISM
Signal	IEEE802.b (Crest factor: 1.0)
Frequency (MHz)	2462
Relative permittivity (real part)	39.97
Conductivity (S/m)	1.79

A. SAR Surface and Volume

SURFACE SAR	VOLUME SAR
	

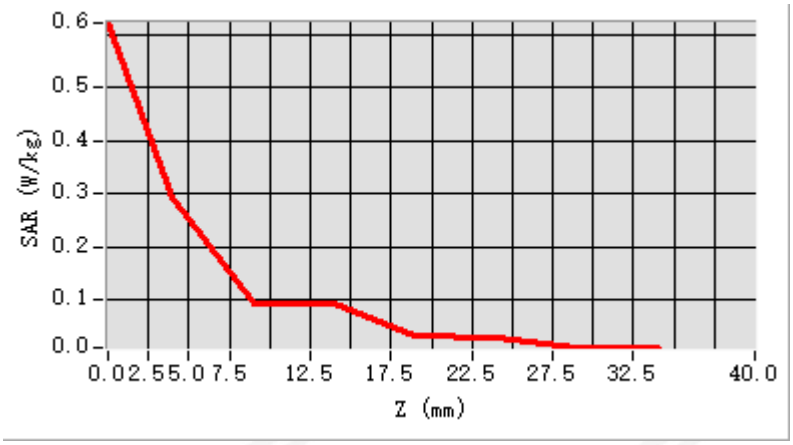
Maximum location: X=17.00, Y=5.00 ; SAR Peak: 0.48 W/kg

B. SAR 1g & 10g

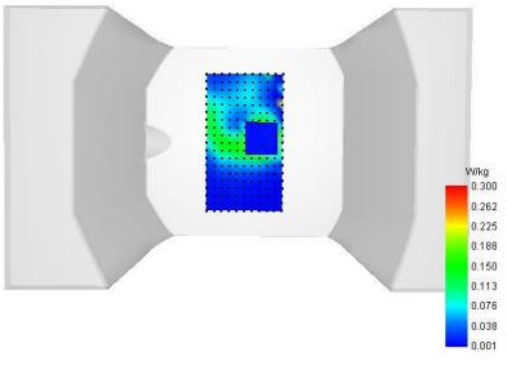
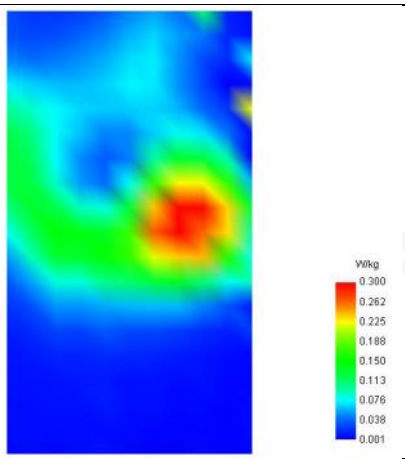
SAR 10g (W/Kg)	0.150
SAR 1g (W/Kg)	0.285
Horizontal validation criteria: minimum distance (mm)	17.888544
Vertical validation criteria: SAR ratio M2/M1 (%)	54.811011

C. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.622	0.295	0.091	0.092	0.031	0.029	0.010



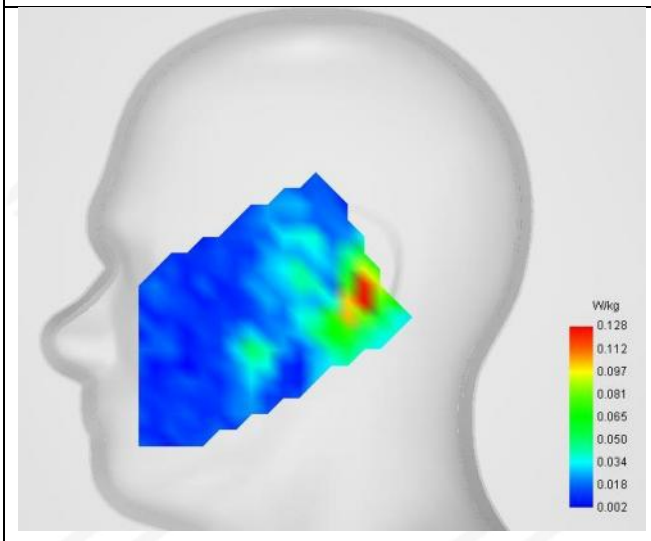
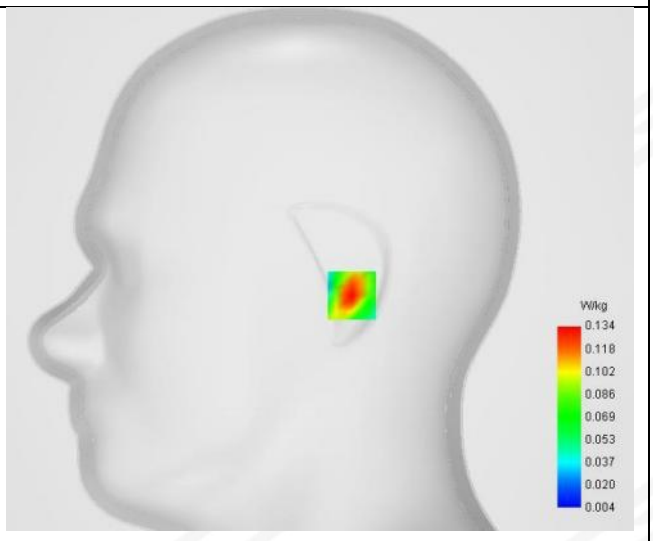
D. 3D Image

3D screen shot	Hot spot position
	

Plot 35: DUT: Smart Phone; EUT Model: Philips S8310

Test Date	2026-06-11
ConvF	1.37
Probe	SN 08/21 EPGO352
Area Scan	dx=10mm, dy=10mm, h= 5.00 mm
Zoom Scan	7x7x12, dx=4mm, dy=4mm, dz=2mm,
Phantom	Right Cheek
Device Position	Cheek
Band	IEEE 802.11a ISM
Signal	IEEE802.a (Crest factor: 1.0)
Frequency (MHz)	5240
Relative permittivity (real part)	35.91
Conductivity (S/m)	4.72

A. SAR Surface and Volume

SURFACE SAR	VOLUME SAR
	

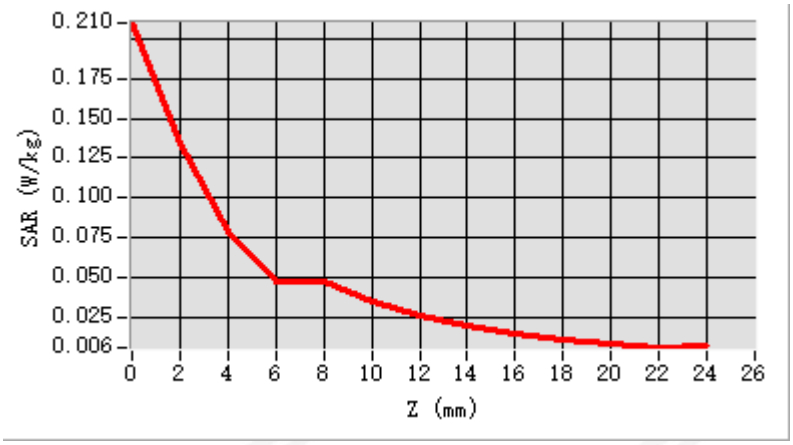
Maximum location: X=16.00, Y=-13.00 ; SAR Peak: 0.37 W/kg

B. SAR 1g & 10g

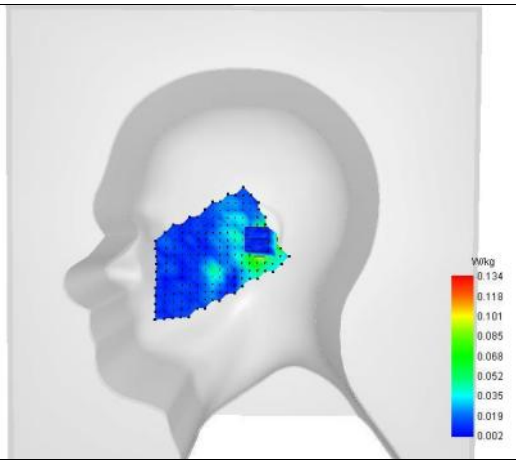
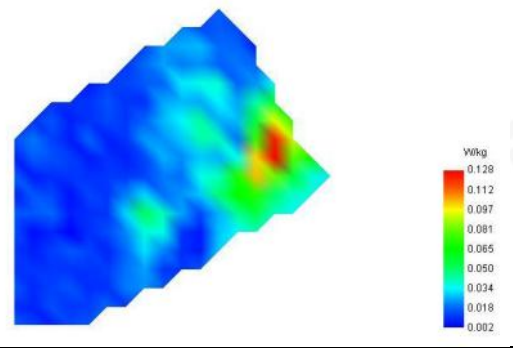
SAR 10g (W/Kg)	0.061
SAR 1g (W/Kg)	0.148
Horizontal validation criteria: minimum distance (mm)	11.313708
Vertical validation criteria: SAR ratio M2/M1 (%)	58.350046

C. 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)	0.210	0.134	0.078	0.047	0.048	0.035	0.026	0.019	0.014	0.011	0.008	0.006



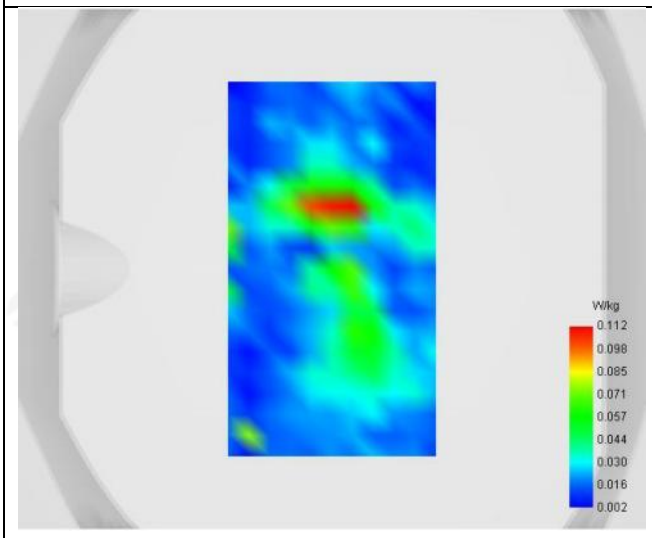
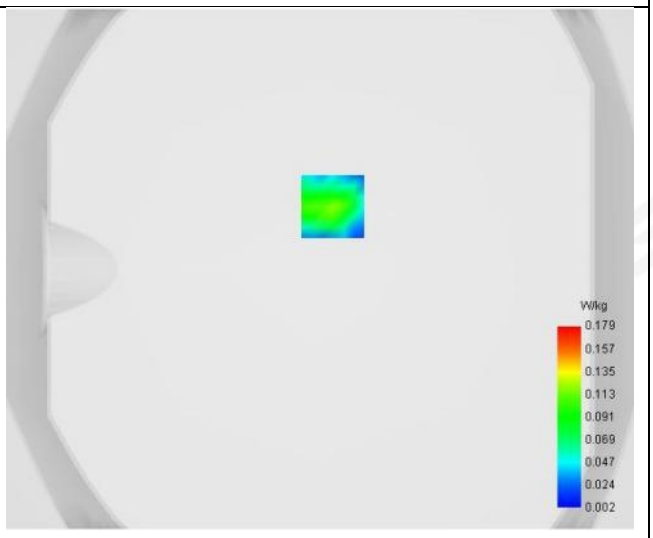
D. 3D Image

3D screen shot	Hot spot position
	

Plot 36: DUT: Smart Phone; EUT Model: Philips S8310

Test Date	2026-06-11
ConvF	1.37
Probe	SN 08/21 EPGO352
Area Scan	dx=10mm, dy=10mm, h= 5.00 mm
Zoom Scan	7x7x12, dx=4mm, dy=4mm, dz=2mm,
Phantom	Validation plane
Device Position	Back Side
Band	IEEE 802.11a ISM
Signal	IEEE802.a (Crest factor: 1.0)
Frequency (MHz)	5240
Relative permittivity (real part)	35.91
Conductivity (S/m)	4.72

A. SAR Surface and Volume

SURFACE SAR	VOLUME SAR
	

Maximum location: X=5.00, Y=24.00 ; SAR Peak: 0.23 W/kg

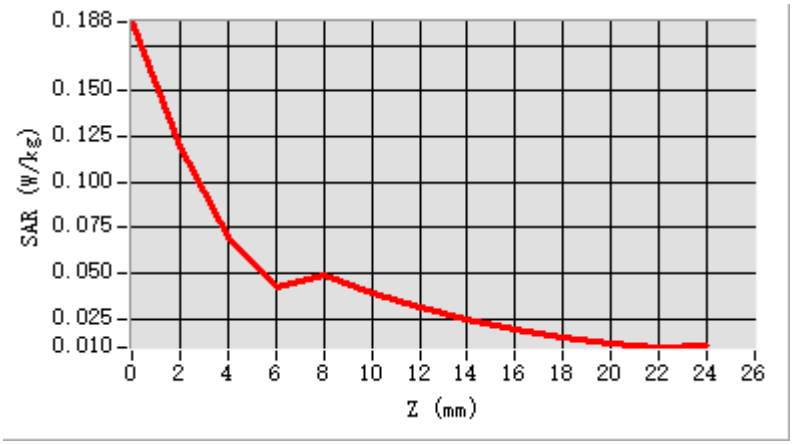
B. SAR 1g & 10g

SAR 10g (W/Kg)	0.033

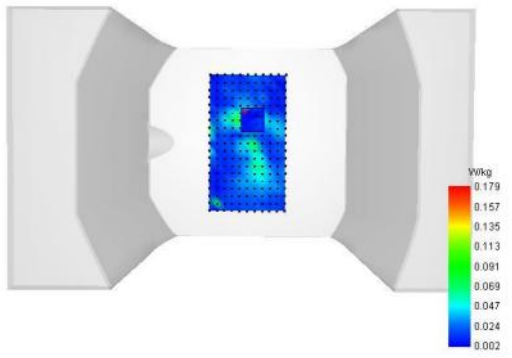
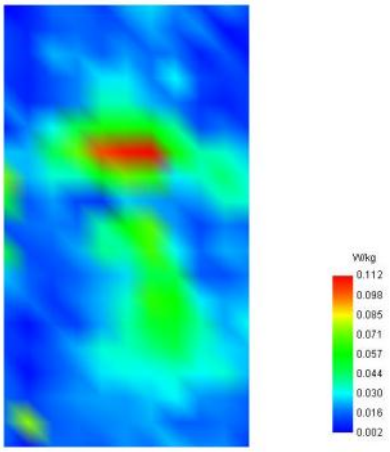
SAR 1g (W/Kg)	0.083
Horizontal validation criteria: minimum distance (mm)	8.944272
Vertical validation criteria: SAR ratio M2/M1 (%)	58.716969

C. 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)	0.188	0.120	0.070	0.043	0.050	0.039	0.031	0.025	0.019	0.015	0.012	0.010



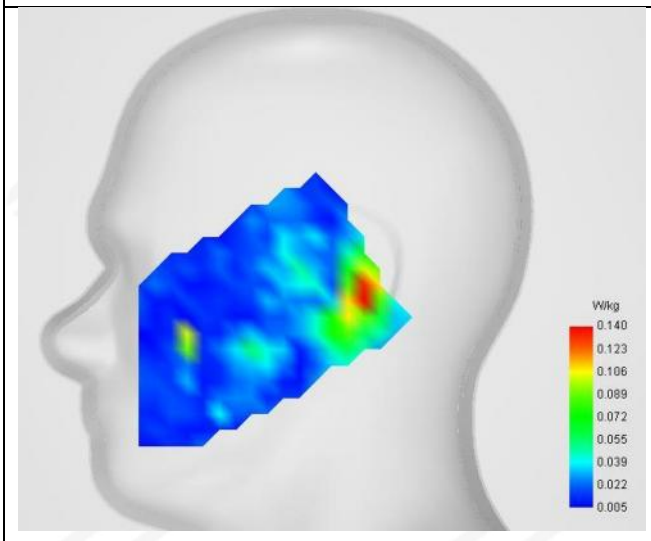
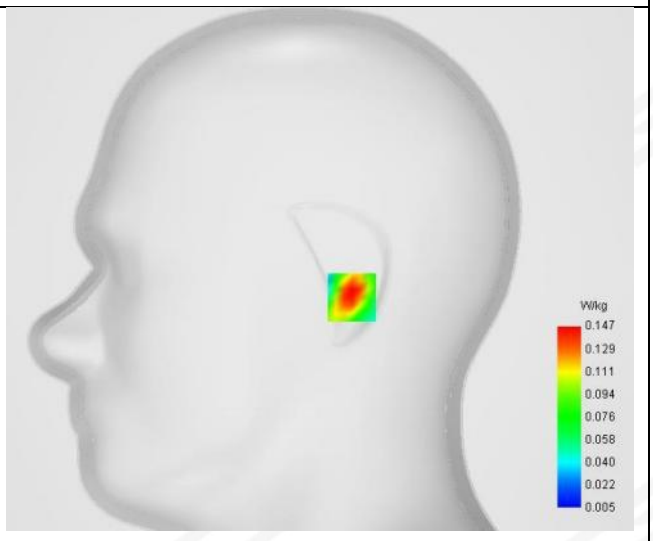
D. 3D Image

3D screen shot	Hot spot position
	

Plot 37: DUT: Smart Phone; EUT Model: Philips S8310

Test Date	2026-06-11
ConvF	1.32
Probe	SN 08/21 EPGO352
Area Scan	dx=10mm, dy=10mm, h= 5.00 mm
Zoom Scan	7x7x12, dx=4mm, dy=4mm, dz=2mm,
Phantom	Right Cheek
Device Position	Cheek
Band	IEEE 802.11ac80 ISM
Signal	IEEE802.ac80 (Crest factor: 1.0)
Frequency (MHz)	5775
Relative permittivity (real part)	36.20
Conductivity (S/m)	5.24

A. SAR Surface and Volume

SURFACE SAR	VOLUME SAR
	

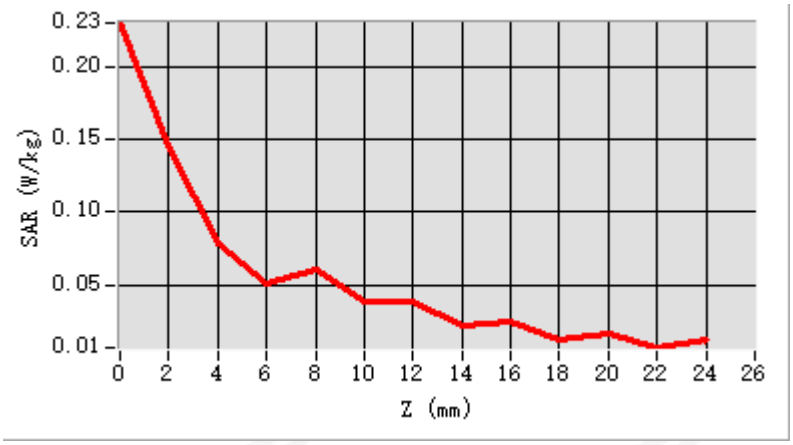
Maximum location: X=16.00, Y=-14.00 ; SAR Peak: 0.42 W/kg

B. SAR 1g & 10g

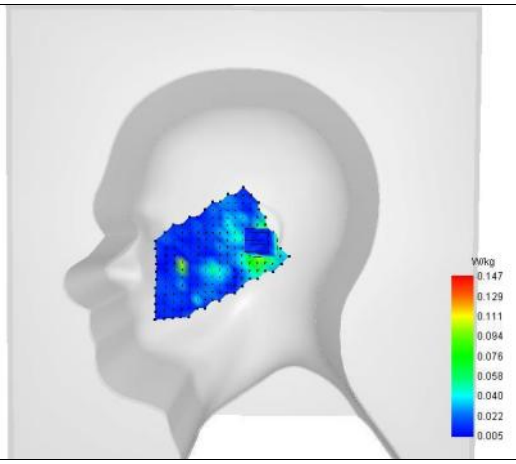
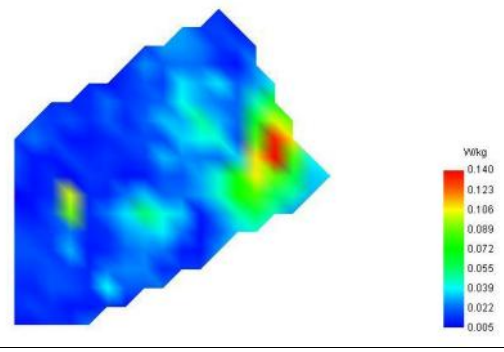
SAR 10g (W/Kg)	0.071
SAR 1g (W/Kg)	0.168
Horizontal validation criteria: minimum distance (mm)	11.313708
Vertical validation criteria: SAR ratio M2/M1 (%)	58.878658

C. 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)	0.231	0.147	0.079	0.051	0.061	0.038	0.039	0.021	0.025	0.012	0.016	0.006



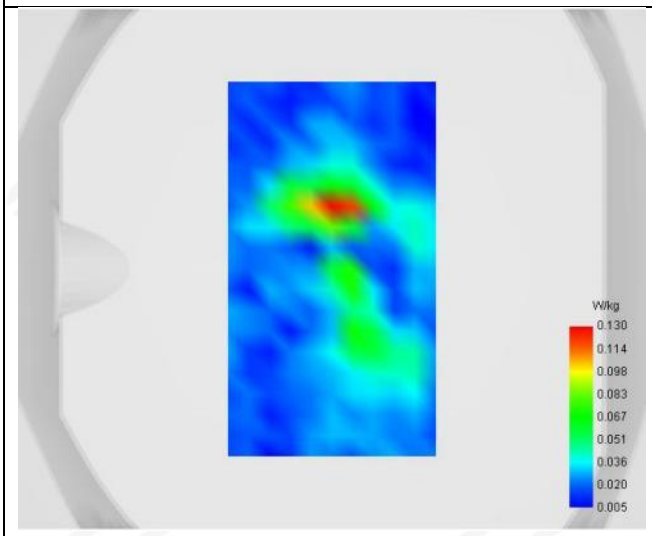
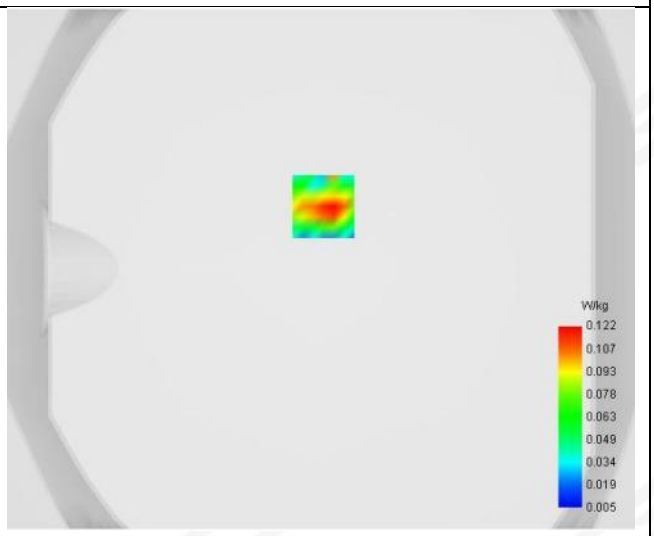
D. 3D Image

3D screen shot	Hot spot position
	

Plot 38: DUT: Smart Phone; EUT Model: Philips S8310

Test Date	2026-06-11
ConvF	1.32
Probe	SN 08/21 EPGO352
Area Scan	dx=10mm, dy=10mm, h= 5.00 mm
Zoom Scan	7x7x12, dx=4mm, dy=4mm, dz=2mm,
Phantom	Validation plane
Device Position	Back Side
Band	IEEE 802.11ac80 ISM
Signal	IEEE802.ac80 (Crest factor: 1.0)
Frequency (MHz)	5775
Relative permittivity (real part)	36.20
Conductivity (S/m)	5.24

A. SAR Surface and Volume

SURFACE SAR	VOLUME SAR
	

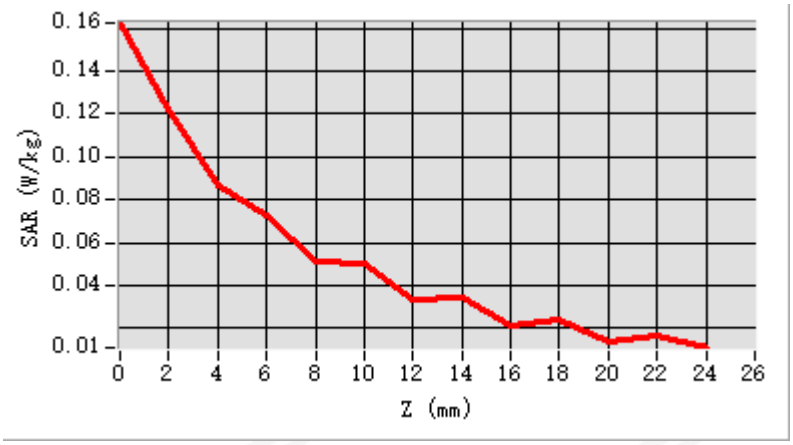
Maximum location: X=1.00, Y=24.00 ; SAR Peak: 0.28 W/kg

B. SAR 1g & 10g

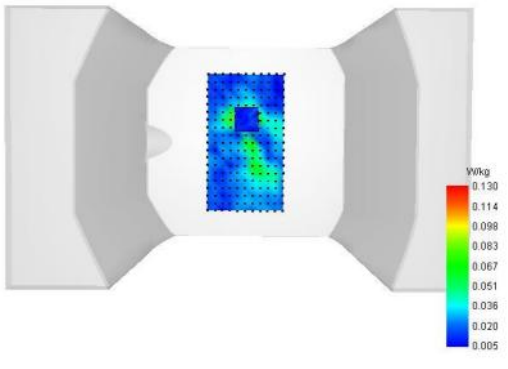
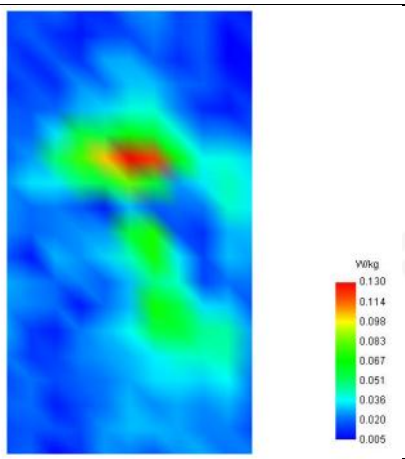
SAR 10g (W/Kg)	0.034
SAR 1g (W/Kg)	0.081
Horizontal validation criteria: minimum distance (mm)	8.944272
Vertical validation criteria: SAR ratio M2/M1 (%)	71.463606

C. 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)	0.163	0.122	0.087	0.073	0.051	0.050	0.033	0.034	0.021	0.024	0.014	0.016



D. 3D Image

3D screen shot	Hot spot position
	

Appendix C. Probe Calibration and Dipole Calibration Report

Refer the appendix Calibration Report.

※※※※※END OF THE REPORT※※※※※