



SAR Test Report

Report No.:STS2603145H01

Issued for

Hot Pepper Mobile Inc.

350 10th Ave 1000 Ste San Diego California Unite States
92101-8705

Product Name: Smart Phone

Brand Name: Hot pepper

Model Name: HPPL61B

Series Model(s): N/A

FCC ID: 2A33N-L61B

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

Max. Report Head: 0.598 W/kg
SAR (1g) Body: 1.192 W/kg

The test results presented in this report relate only to the object tested. This report shall not be reproduced, except in full, without the written approval of the Shenzhen STS Test Services Co., Ltd.

**TEST REPORT CERTIFICATION**

Applicant's name.....: Hot Pepper Mobile Inc.
Address.....: 350 10th Ave 1000 Ste San Diego California Unite States
92101-8705
Manufacturer's Name.....: Hot Pepper Mobile Inc.
Address.....: 350 10th Ave 1000 Ste San Diego California Unite States
92101-8705

Product description

Product name.....: Smart Phone
Brand name: Hot pepper
Model name: HPPL61B
Series Model.....: N/A

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.....: 23 Mar. 2026 ~ 28 Mar. 2026

Date of Issue.....: 03 Apr. 2026

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

Testing Engineer :

Xin Liu

(Xin.Liu)

Technical Manager :

Shi fan. long

(Shifan. Long)

Authorized Signatory :

Bovey Yang

(Bovey Yang)





Table of Contents

1. General Information	5
1.1 EUT Description	5
1.2 Test Environment	7
1.3 Test Factory	7
2. Test Standards and Limits	8
3. SAR Measurement System	9
3.1 Definition of Specific Absorption Rate (SAR)	9
3.2 SAR System	9
4. Tissue Simulating Liquids	12
4.1 Simulating Liquids Parameter Check	12
5. SAR System Validation	16
5.1 Validation System	16
5.2 Validation Result	17
6. SAR Evaluation Procedures	18
7. EUT Antenna Location Sketch	19
7.1 SAR test exclusion consider table	20
8. EUT Test Position	25
8.1 Define Two Imaginary Lines on the Handset	25
8.2 Hotspot mode exposure position condition	26
9. Uncertainty	27
9.1 Measurement Uncertainty	27
10. Conducted Power Measurement	30
10.1 Test Result	30
11. EUT and Test Setup Photo	60
11.1 EUT Photo	60
11.2 Setup Photo	63
12. SAR Result Summary	69
12.1 Head SAR	69
12.2 Body-worn and Hotspot SAR	73
12.3 Simultaneous Multi-band Transmission Evaluation	78
13. Equipment List	80
Appendix A. System Validation Plots	81
Appendix B. SAR Test Plots	97
Appendix C. Probe Calibration and Dipole Calibration Report	165



Rev.	Issue Date	Report No.	Effect Page	Contents
00	03 Apr. 2026	STS2603145H01	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	Hotpepper
Model Name	HPPL61B
Series Model	N/A
Model Difference	N/A
Sample number	260317001-1
Battery	Model:XLP2510G50R Rated Voltage: 3.85 V Charge Limit Voltage:4.4V Capacity: 4850mAh
Device Category	Portable
Product stage	Production unit
RF Exposure Environment	General Population / Uncontrolled
Hardware Version	P0
Software Version	N/A
Frequency Range	GSM 850: 824 MHz ~ 849 MHz PCS1900: 1850 MHz ~ 1910 MHz WCDMA Band II: 1850 MHz ~ 1910 MHz WCDMA Band IV:1710 MHz ~ 1755 MHz WCDMA Band V: 824 MHz ~ 849 MHz LTE Band 2: 1850 MHz ~ 1910 MHz LTE Band 4: 1710 MHz ~ 1755 MHz LTE Band 5: 824 MHz ~ 849 MHz LTE Band 12: 699 MHz ~ 716 MHz LTE Band 17: 704 MHz ~ 716 MHz LTE Band 25: 1850 MHz ~ 1915 MHz LTE Band 26: 814 MHz ~ 824 MHz / 824 MHz ~ 849 MHz LTE Band 41: 2496 MHz ~ 2690 MHz LTE Band 66: 1710 MHz ~ 1780 MHz LTE Band 71: 617 MHz ~ 652 MHz WLAN802.11b/g/n20: 2412 MHz ~ 2462 MHz WLAN 802.11n40: 2422 MHz ~ 2452 MHz WLAN 802.11a/n20/n40/ac20/ac40/ac80: 5150 ~ 5250 MHz WLAN 802.11a/n20/n40/ac20/ac40/ac80: 5250 ~ 5350 MHz WLAN 802.11a/n20/n40/ac20/ac40/ac80: 5470 ~ 5725 MHz WLAN 802.11a/n20/n40/ac20/ac40/ac80: 5725 ~ 5850 MHz Bluetooth: 2402 MHz to 2480 MHz



Max. Reported SAR(1g): (Limit:1.6W/kg) Test distance: Head:0mm Body:10mm	Band	Mode	Head (W/kg)	Body Worn and Hotspot(W/kg)
	PCE	GSM 850	0.170	0.547
	PCE	GSM 1900	0.179	0.740
	PCE	WCDMA Band II	0.113	0.747
	PCE	WCDMA Band IV	0.210	0.752
	PCE	WCDMA Band V	0.141	0.515
	PCE	LTE Band 2	0.194	0.362
	PCE	LTE Band 4	0.066	0.322
	PCE	LTE Band 5	0.143	0.633
	PCE	LTE Band 12	0.127	0.661
	PCE	LTE Band 25	0.286	0.636
	PCE	LTE Band 26	0.230	0.517
	PCE	LTE Band 41	0.440	0.265
	PCE	LTE Band 66	0.096	0.251
	PCE	LTE Band 71	0.094	0.333
	DTS	2.4G WLAN	0.158	0.440
	DSS	BT	0.093	0.019
	NII	5.2G WLAN	0.140	0.304
	NII	5.8G WLAN	0.068	0.192
1-g Sum SAR			0.598	1.192
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: PIFA Antenna Bluetooth: PIFA Antenna WLAN: PIFA 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				



1.2 Test Environment

Ambient conditions in the SAR laboratory:

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

1.3 Test Factory

ShenZhen STS Test Services Co.,Ltd.

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

FCC test Firm Registration No.: 625569

IC Registration No.: 12108A

A2LA Certificate No.: 4338.01



2. Test Standards and Limits

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

(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

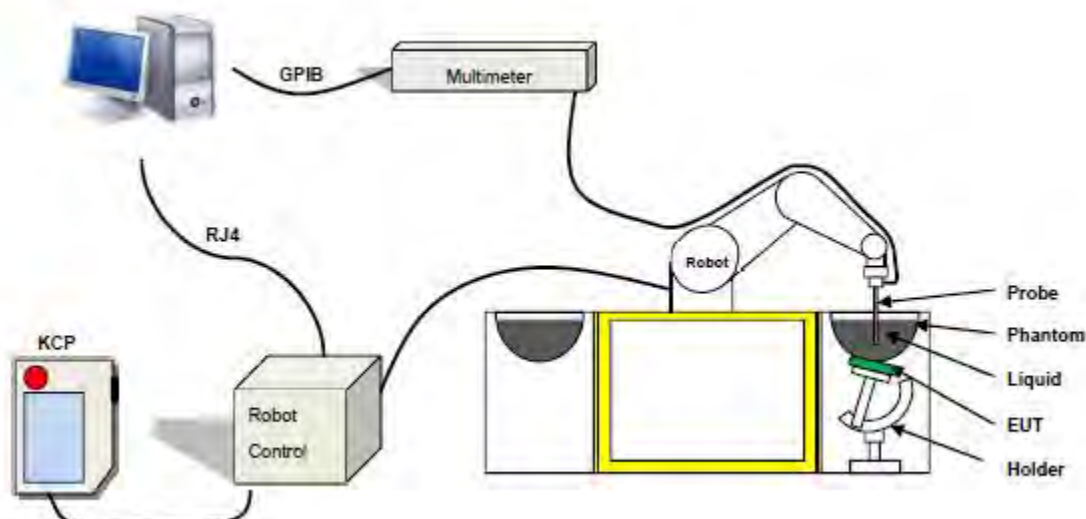
$$SAR = \frac{\sigma E^2}{\rho}$$

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 EPG0352 with following specifications is used

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



Figure 1-MVG COMOSAR Dosimetric E field Dipole

3.2.2 Phantom

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

SN 32/14 SAM115



Figure-SN 21/21 ELLI48



3.2.3 Device Holder



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



4. Tissue Simulating Liquids

4.1 Simulating Liquids Parameter Check

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

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

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

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

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



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

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

**LIQUID MEASUREMENT RESULTS**

Date	Ambient		Simulating Liquid		Parameters	Target	Measured	Deviation %	Limited %
	Temp. [°C]	Humidity %	Frequency (MHz)	Temp. [°C]					
2026-03-23	23.5	48	673	23.2	Permittivity	42.31	43.10	1.87	±5
					Conductivity	0.88	0.87	-1.68	±5
2026-03-23	23.5	48	704	23.2	Permittivity	42.15	42.49	0.82	±5
					Conductivity	0.89	0.88	-0.78	±5
2026-03-23	23.5	48	750	23.2	Permittivity	41.90	41.70	-0.48	±5
					Conductivity	0.89	0.88	-1.12	±5
2026-03-24	23.6	48	831.5	23.3	Permittivity	41.52	41.06	-1.10	±5
					Conductivity	0.90	0.90	0.05	±5
2026-03-24	23.6	48	835	23.3	Permittivity	41.50	42.14	1.54	±5
					Conductivity	0.90	0.88	-2.22	±5
2026-03-24	23.6	48	841.5	23.3	Permittivity	41.47	42.02	1.33	±5
					Conductivity	0.90	0.88	-2.31	±5
2026-03-24	23.6	48	844	23.3	Permittivity	41.46	42.46	2.42	±5
					Conductivity	0.90	0.91	0.99	±5
2026-03-24	23.6	48	846.6	23.3	Permittivity	41.45	41.96	1.24	±5
					Conductivity	0.90	0.91	0.96	±5
2026-03-24	23.6	48	848.8	23.3	Permittivity	41.44	42.50	2.57	±5
					Conductivity	0.90	0.92	2.04	±5
2026-03-25	23.4	49	1712.6	23.1	Permittivity	40.12	41.03	2.26	±5
					Conductivity	1.35	1.32	-2.23	±5
2026-03-25	23.4	49	1720	23.1	Permittivity	40.11	40.71	1.49	±5
					Conductivity	1.35	1.35	-0.32	±5
2026-03-25	23.4	49	1740	23.1	Permittivity	40.09	40.30	0.53	±5
					Conductivity	1.37	1.37	0.31	±5
2026-03-25	23.4	49	1752.4	23.1	Permittivity	40.07	39.84	-0.57	±5
					Conductivity	1.37	1.39	1.25	±5
2026-03-25	23.4	49	1800	23.1	Permittivity	40.00	40.26	0.65	±5
					Conductivity	1.40	1.40	0.00	±5
2026-03-26	23.6	44	1852.4	23.3	Permittivity	40.00	39.37	-1.58	±5
					Conductivity	1.40	1.40	0.00	±5
2026-03-26	23.6	44	1860	23.3	Permittivity	40.00	40.14	0.35	±5
					Conductivity	1.40	1.42	1.43	±5
2026-03-26	23.6	44	1880	23.3	Permittivity	40.00	40.46	1.15	±5
					Conductivity	1.40	1.38	-1.43	±5
2026-03-25	23.6	44	1900	23.3	Permittivity	40.00	41.09	2.73	±5
					Conductivity	1.40	1.40	0.00	±5
2026-03-27	23.0	40	2450	22.7	Permittivity	39.20	40.03	2.12	±5
					Conductivity	1.80	1.80	0.00	±5
2026-03-27	23.0	40	2462	22.7	Permittivity	39.18	39.99	2.07	±5
					Conductivity	1.81	1.81	-0.04	±5
2026-03-27	23.0	40	2506	22.7	Permittivity	39.13	39.98	2.18	±5
					Conductivity	1.86	1.85	-0.52	±5
2026-03-27	23.0	40	2593	22.7	Permittivity	39.01	40.02	2.59	±5
					Conductivity	1.95	1.95	-0.13	±5
2026-03-27	23.0	40	2600	22.7	Permittivity	39.00	39.00	0.00	±5
					Conductivity	1.96	1.97	0.51	±5
2026-03-27	23.0	40	2680	22.7	Permittivity	38.89	39.74	2.18	±5
					Conductivity	2.05	2.05	0.23	±5



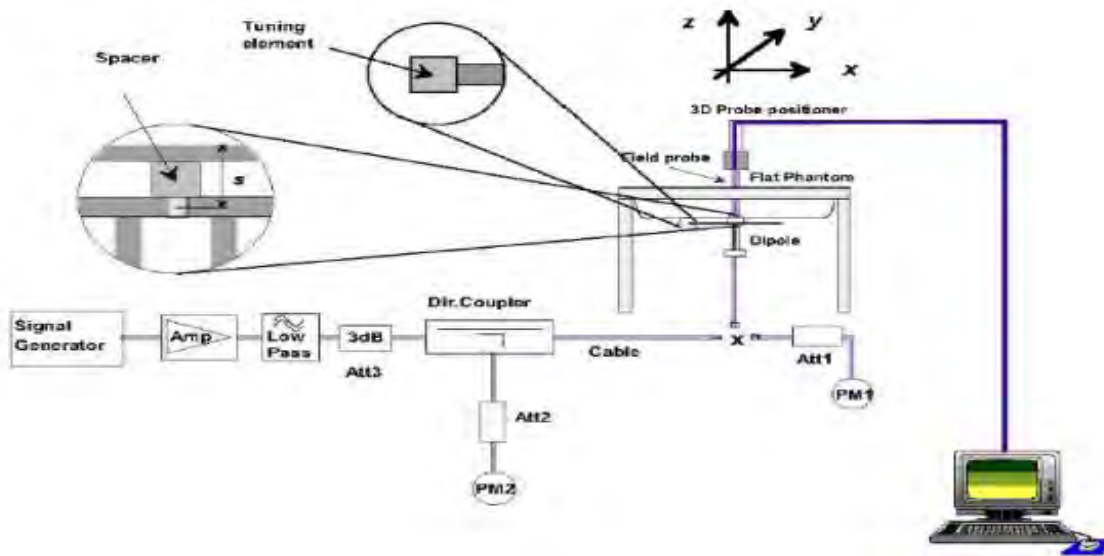
2026-03-28	23.3	40	5200	23.0	Permittivity	36.00	36.41	1.14	±5
					Conductivity	4.66	4.66	0.00	±5
2026-03-28	23.3	40	5240	23.0	Permittivity	35.96	35.71	-0.70	±5
					Conductivity	4.70	4.68	-0.47	±5
2026-03-28	23.3	40	5800	23.0	Permittivity	35.30	36.04	2.10	±5
					Conductivity	5.27	5.26	-0.19	±5
2026-03-28	23.3	40	5825	23.0	Permittivity	35.28	35.62	0.98	±5
					Conductivity	5.30	5.31	0.26	±5

5. SAR System Validation

5.1 Validation System

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

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





5.2 Validation Result

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

Date	Frequency (MHz)	Power	SAR _{1g} (W/Kg)	SAR _{10g} (W/Kg)	Drift (%)	1W Target		Difference percentage		Limited %
						SAR _{1g} (W/Kg)	SAR _{10g} (W/Kg)	1g	10g	
2026-03-23	750	100 mW	0.790	0.517	1.60	8.49	5.53	-6.95%	-6.51%	10
		Normalize to 1 Watt	7.90	5.17						
2026-03-24	835	100 mW	0.941	0.603	-2.06	9.63	6.15	-2.28%	-1.95%	10
		Normalize to 1 Watt	9.41	6.03						
2026-03-25	1800	100 mW	3.718	2.016	-3.88	37.95	20.49	-2.03%	-1.61%	10
		Normalize to 1 Watt	37.18	20.16						
2026-03-26	1900	100 mW	4.018	2.060	-3.03	39.84	20.20	0.85%	1.98%	10
		Normalize to 1 Watt	40.18	20.60						
2026-03-27	2450	100 mW	5.448	2.368	2.91	54.70	24.11	-0.40%	-1.78%	10
		Normalize to 1 Watt	54.48	23.68						
2026-03-27	2600	100 mW	5.308	2.468	0.82	56.19	24.08	-5.53%	2.49%	10
		Normalize to 1 Watt	53.08	24.68						
2026-03-28	5200	10 mW	1.655	0.604	1.15	163.88	57.29	0.99%	5.43%	10
		Normalize to 1 Watt	165.50	60.40						
2026-03-28	5800	10 mW	2.037	0.615	-3.24	188.95	63.45	7.81%	-3.07%	10
		Normalize to 1 Watt	203.70	61.50						

Note:

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



6. SAR Evaluation Procedures

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

The following steps are used for each test position

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

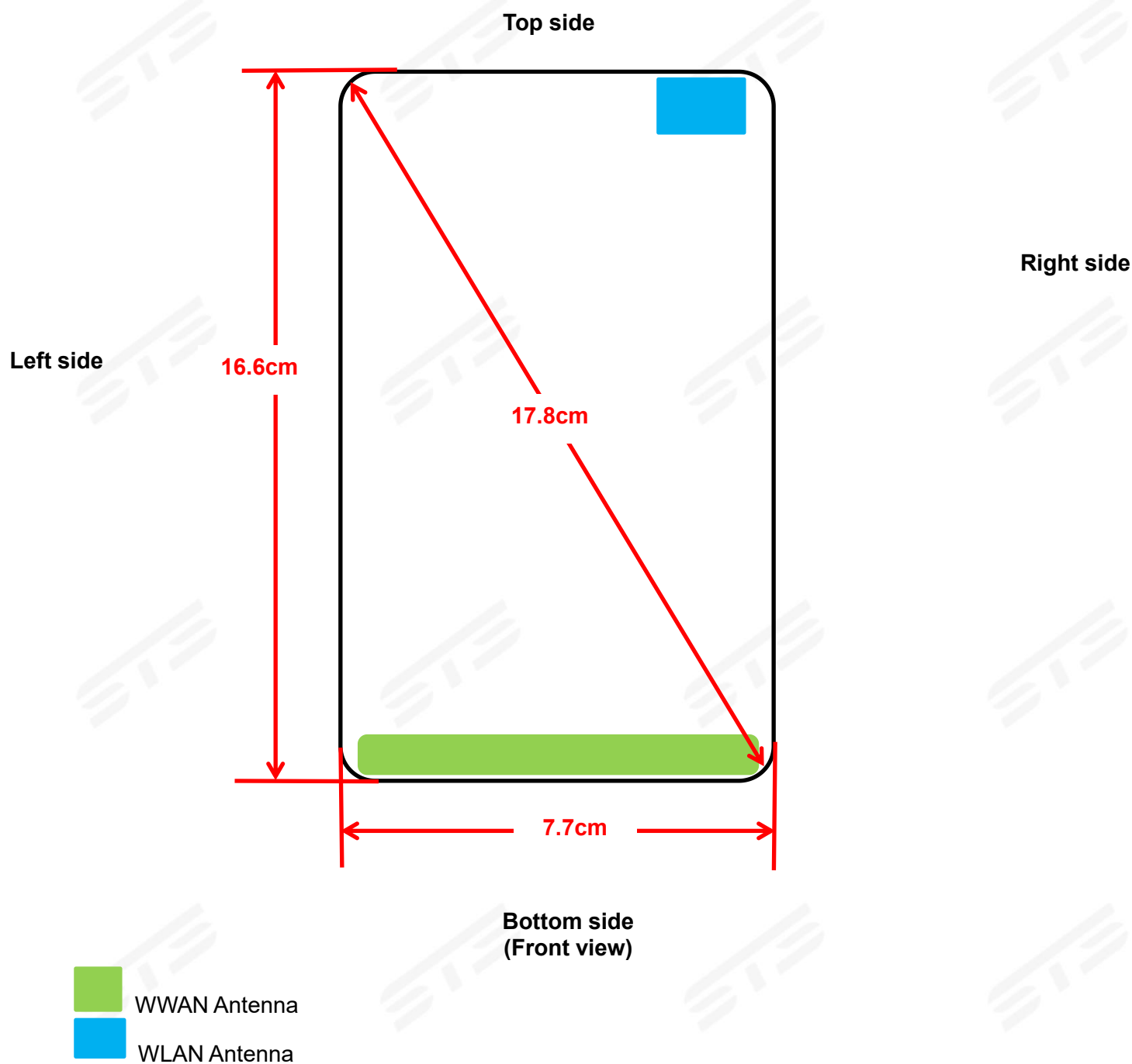
➤ Area Scan& Zoom Scan

First Area Scan is used to locate the approximate location(s) of the local peak SAR value(s). The measurement grid within an Area Scan is defined by the grid extent, grid step size and grid offset. Next, in order to determine the EM field distribution in a three-dimensional spatial extension, Zoom Scan is required. The Zoom Scan is performed around the highest E-field value to determine the averaged SAR-distribution over 10 g. Area scan and zoom scan resolution setting follows KDB 865664 D01 quoted below.

When the 1-g SAR of the highest peak is within 2 dB of the SAR limit, additional zoom scans are required for other peaks within 2 dB of the highest peak that have not been included in any zoom scan to ensure there is no increase in SAR.

7. EUT Antenna Location Sketch

It is a Smart phone, support 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	6.3	≤0.5	≤0.5	15.5
WWAN-Main	≤0.5	≤0.5	≤0.5	≤0.5	15.6	≤0.5

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

**7.1 SAR test exclusion consider table**

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

Exposure Position	Wireless Interface	GSM850	PCS1900	WCDMA II	WCDMA IV	WCDMA V
Exposure Position	Calculated Frequency(GHz)	0.8488	1.88	1.8524	1.7524	0.8466
	Maximum Turn-up power (dBm)	33	29.5	22.5	22	23
	Maximum rated power(mW)	1995.26	891.25	177.83	158.49	199.53
Back Side	Separation distance (cm)	≤0.5	≤0.5	≤0.5	≤0.5	≤0.5
	exclusion threshold(mW)	9.04	3.39	3.43	3.27	6.43
	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)	9.04	3.39	3.43	3.27	6.43
	Testing required?	YES	YES	YES	YES	YES
Left Side	Separation distance (cm)	≤0.5	≤0.5	≤0.5	≤0.5	≤0.5
	exclusion threshold(mW)	9.04	3.39	3.43	3.27	6.43
	Testing required?	YES	YES	YES	YES	YES
Right Side	Separation distance (cm)	≤0.5	≤0.5	≤0.5	≤0.5	≤0.5
	exclusion threshold(mW)	9.04	3.39	3.43	3.27	6.43
	Testing required?	YES	YES	YES	YES	YES
Top Side	Separation distance (cm)	15.6	15.6	15.6	15.6	15.6
	exclusion threshold(mW)	1215.36	1934.97	1936.51	2231.39	2020.07
	Testing required?	YES	NO	NO	NO	NO
Bottom Side	Separation distance (cm)	≤0.5	≤0.5	≤0.5	≤0.5	≤0.5
	exclusion threshold(mW)	9.04	3.39	3.43	3.27	6.43
	Testing required?	YES	YES	YES	YES	YES



Exposure Position	Wireless Interface	LTE Band 2	LTE Band 4	LTE Band 5	LTE Band 12	LTE Band 25	LTE Band 26
	Calculated Frequency(GHz)	1.8525	1.7175	0.8265	0.7015	1.8525	0.8155
	Maximum Turn-up power (dBm)	24	23.5	23.5	24.5	24	24
	Maximum rated power(mW)	251.19	223.87	223.87	281.84	251.19	251.19
Back Side	Separation distance (cm)	≤0.5	≤0.5	≤0.5	≤0.5	≤0.5	≤0.5
	exclusion threshold(mW)	3.43	3.65	9.38	11.81	3.02	9.56
	Testing required?	YES	YES	YES	YES	YES	YES
Front Side	Separation distance (cm)	≤0.5	≤0.5	≤0.5	≤0.5	≤0.5	≤0.5
	exclusion threshold(mW)	3.43	3.65	9.38	11.81	3.02	9.56
	Testing required?	YES	YES	YES	YES	YES	YES
Left Side	Separation distance (cm)	≤0.5	≤0.5	≤0.5	≤0.5	≤0.5	≤0.5
	exclusion threshold(mW)	3.43	3.65	9.38	11.81	3.02	9.56
	Testing required?	YES	YES	YES	YES	YES	YES
Right Side	Separation distance (cm)	≤0.5	≤0.5	≤0.5	≤0.5	≤0.5	≤0.5
	exclusion threshold(mW)	3.43	3.65	9.38	11.81	3.02	9.56
	Testing required?	YES	YES	YES	YES	YES	YES
Top Side	Separation distance (cm)	15.6	15.6	15.6	15.6	15.6	15.6
	exclusion threshold(mW)	1936.51	1944.43	1188.54	1035.92	2337.73	1175.27
	Testing required?	NO	NO	NO	NO	NO	NO
Bottom Side	Separation distance (cm)	≤0.5	≤0.5	≤0.5	≤0.5	≤0.5	≤0.5
	exclusion threshold(mW)	3.43	3.65	9.38	11.81	3.02	9.56
	Testing required?	YES	YES	YES	YES	YES	YES



	Wireless Interface	LTE Band 41	LTE Band 66	LTE Band 71	BT	2.4G WLAN	5.2G WLAN	5.8G WLAN
Exposure Position	Calculated Frequency(GHz)	2.4985	1.7125	0.673	2.402	2.462	5.24	5.825
	Maximum Turn-up power (dBm)	23.5	23.5	24.5	4	20.5	14.5	14
	Maximum rated power(mW)	223.87	223.87	281.84	2.51	112.20	28.18	25.12
Back Side	Separation distance (cm)	≤0.5	≤0.5	≤0.5	≤0.5	≤0.5	≤0.5	≤0.5
	exclusion threshold(mW)	2.70	3.66	7.72	2.79	2.73	1.49	1.37
	Testing required?	YES	YES	YES	NO	YES	YES	YES
Front Side	Separation distance (cm)	≤0.5	≤0.5	≤0.5	≤0.5	≤0.5	≤0.5	≤0.5
	exclusion threshold(mW)	2.70	3.66	7.72	2.79	2.73	1.49	1.37
	Testing required?	YES	YES	YES	NO	YES	YES	YES
Left Side	Separation distance (cm)	≤0.5	≤0.5	≤0.5	≤0.5	≤0.5	≤0.5	≤0.5
	exclusion threshold(mW)	2.70	3.66	7.72	341.65	339.55	280.94	273.58
	Testing required?	YES	YES	YES	NO	NO	NO	NO
Right Side	Separation distance (cm)	≤0.5	≤0.5	≤0.5	≤0.5	≤0.5	≤0.5	≤0.5
	exclusion threshold(mW)	2.70	3.66	7.72	2.79	2.73	1.49	1.37
	Testing required?	YES	YES	YES	NO	YES	YES	YES
Top Side	Separation distance (cm)	15.6	15.6	15.6	≤0.5	≤0.5	≤0.5	≤0.5
	exclusion threshold(mW)	1905.50	1944.73	2045.24	2.79	2.73	1.49	1.37
	Testing required?	NO	NO	NO	NO	YES	YES	YES
Bottom Side	Separation distance (cm)	≤0.5	≤0.5	≤0.5	15.5	15.5	15.5	15.5
	exclusion threshold(mW)	2.70	3.66	7.72	1886.39	1883.82	1806.68	1796.13
	Testing required?	YES	YES	YES	NO	NO	NO	NO

Note:

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



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

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

Where

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

and

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

d = the separation distance (cm);

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

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



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

8. EUT Test Position

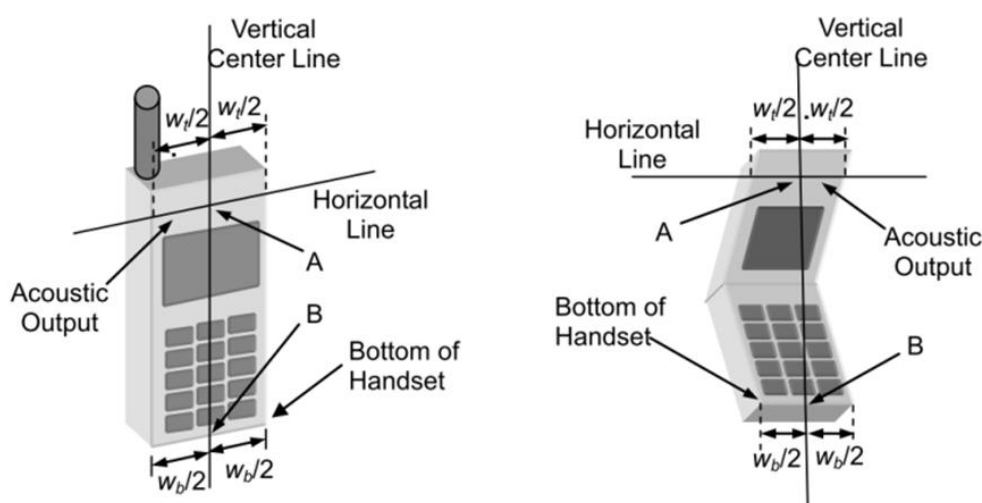
This EUT was tested in Right Cheek, Right Titled, Left Cheek, Left Titled, Front Face, Rear Face, Left Side, Right Side, Top Side and Bottom Side.

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 w_t of the handset at the level of the acoustic output, and the midpoint of the width w_b of the handset.

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

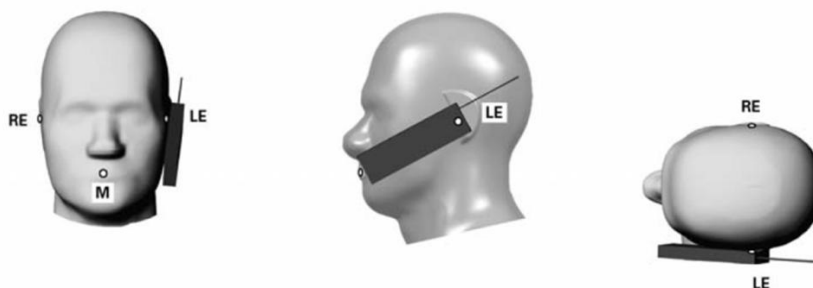
(3) The two lines intersect at point A. Note that for many handsets, point A coincides with the center of the acoustic output; however, the acoustic output may be located elsewhere on the horizontal line. Also note that the vertical centerline is not necessarily to the front face of the handset, especially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



Cheek Position

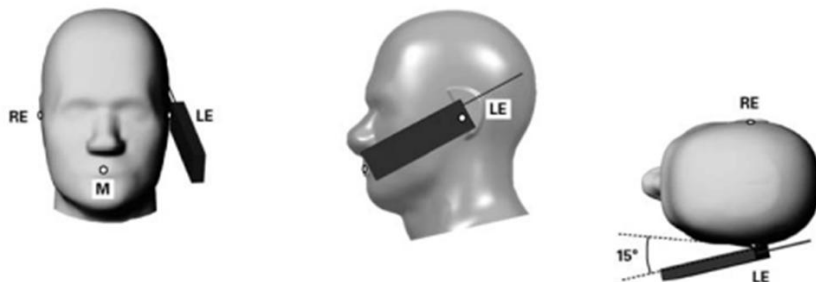
1) To position the device with the vertical center line of the body of the device and the horizontal line crossing the center piece in a plane parallel to the sagittal plane of the phantom. While maintaining the device in this plane, align the vertical center line with the reference plane containing 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.



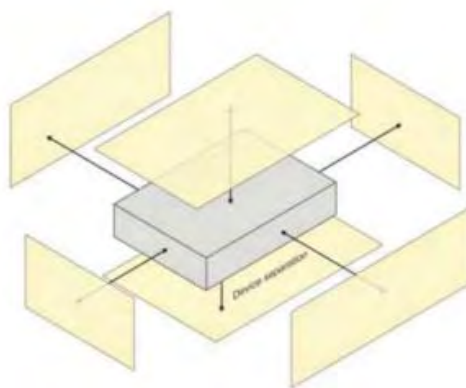
Body-worn Position Conditions:

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



8.2 Hotspot mode exposure position condition

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





9. Uncertainty

9.1 Measurement Uncertainty

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

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

SATIMO Uncertainty- SN 08/21 EPGO352									
System Validation uncertainty for DUT averaged over 1 gram / 10 gram.									



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

SATIMO Uncertainty- SN 08/21 EPG0352									
◦ System Check uncertainty for DUT averaged over 1 gram / 10 gram.									
Uncertainty Component	Sec.	Tol (+-%)	Prob. Dist.	Div.	Ci (1g)	Ci (10g)	1g Ui (+-%)	10g Ui (+-%)	vi
Measurement System									
Probe calibration drift	E.2.1.3	5.72	N	1.00	1.00	1.00	5.72	5.72	∞
Axial Isotropy	E.2.2	0.18	R	1.73	0.00	0.00	0.00	0.00	∞



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



10. Conducted Power Measurement

10.1 Test Result

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)	32.68	32.6	32.65	29.17	29.23	28.99
GPRS (GMSK, 1-Slot)	32.65	32.69	32.76	29.17	29.23	28.97
GPRS (GMSK, 2-Slot)	31.8	31.8	31.86	28.29	28.38	28.14
GPRS (GMSK, 3-Slot)	30.05	30.05	30.09	26.46	26.57	26.31
GPRS (GMSK, 4-Slot)	29.01	29.05	29.09	25.42	25.51	25.28
EGPRS(8PSK, 1-Slot)	27.18	26.69	27.33	25.53	25.65	25.57
EGPRS(8PSK, 2-Slot)	25.69	25.78	26.22	24.82	24.51	24.5
EGPRS(8PSK, 3-Slot)	24.14	23.84	23.9	22.02	22.41	22.27
EGPRS(8PSK, 4-Slot)	22.69	22.77	22.86	21.32	21.33	21.18
Remark: GPRS, CS4 coding scheme. EGPRS, MCS5 coding scheme. Multi-Slot Class 8, Support Max 4 downlink, 1 uplink, 5 working link Multi-Slot Class 10, Support Max 4 downlink, 2 uplink, 5 working link Multi-Slot Class 12, Support Max 4 downlink, 4 uplink, 5 working link						

Frame- Average Power(dBm)						
Band	GSM 850			PCS 1900		
Channel	128	190	251	512	661	810
Frequency (MHz)	824.2	836.6	848.8	1850.2	1880.0	1909.8
GSM(GMSK, 1-Slot)	23.65	23.57	23.62	20.14	20.20	19.96
GPRS (GMSK, 1-Slot)	23.62	23.66	23.73	20.14	20.20	19.94
GPRS (GMSK, 2-Slot)	25.78	25.78	25.84	22.27	22.36	22.12
GPRS (GMSK, 3-Slot)	25.79	25.79	25.83	22.20	22.31	22.05
GPRS (GMSK, 4-Slot)	26.00	26.04	26.08	22.41	22.50	22.27
EGPRS(8PSK, 1-Slot)	18.15	17.66	18.30	16.50	16.62	16.54
EGPRS(8PSK, 2-Slot)	19.67	19.76	20.20	18.80	18.49	18.48
EGPRS(8PSK, 3-Slot)	19.88	19.58	19.64	17.76	18.15	18.01
EGPRS(8PSK, 4-Slot)	19.68	19.76	19.85	18.31	18.32	18.17
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	22.25	22.22	22.11	21.9	21.83	21.91	22.56	22.61	22.77
HSDPA Subtest-1	20.94	20.22	19.6	20.67	20.52	19.18	21.59	21.16	20.15
HSDPA Subtest-2	19.49	20.95	20.53	19.18	20.52	20.21	20.05	21.65	21.38
HSDPA Subtest-3	19.47	19.59	20.83	19.15	18.88	20.59	20.24	20.25	21.76
HSDPA Subtest-4	20.48	19.18	19.4	20.24	19.24	19.16	21.46	20.3	20.34
HSUPA Subtest-1	20.24	21.2	19.6	20.65	20.71	19.43	21.55	21.46	20.38
HSUPA Subtest-2	21.32	20.03	21.17	20.92	20.15	20.56	21.76	20.93	21.55
HSUPA Subtest-3	21.27	19.87	21.29	20.43	19.51	20.8	21.71	20.63	21.82
HSUPA Subtest-4	20.81	20.81	20.99	20.02	20.66	20.65	21.14	21.68	21.95
HSUPA Subtest-5	19.86	20.98	20.18	19.48	20.75	20.05	20.67	21.96	21.24

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

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

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

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

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

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

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



2.4G WLAN

2.4GWIFI				
Mode	Channel Number	Frequency (MHz)	Conducted Power (dBm)	Output Power (mW)
802.11b	1	2412	18	63.10
	7	2437	18.39	69.02
	11	2462	18.7	74.13
802.11g	1	2412	18.73	74.64
	7	2437	19.24	83.95
	11	2462	19.44	87.90
802.11 n-HT20	1	2412	19.87	97.05
	7	2437	20.17	103.99
	11	2462	20.36	108.64
802.11 n-HT40	3	2422	18.79	75.68
	6	2437	19.14	82.04
	9	2452	19.38	86.70

Bluetooth

BT				
Mode	Channel Number	Frequency (MHz)	Conducted Power (dBm)	Output Power (mW)
GFSK(1Mbps)	0	2402	3.12	2.05
	39	2441	2.73	1.87
	78	2480	2.81	1.91
$\pi/4$ -QPSK(2Mbps)	0	2402	3.25	2.11
	39	2441	2.8	1.91
	78	2480	2.86	1.93
8DPSK(3Mbps)	0	2402	3.52	2.25
	39	2441	3.19	2.08
	78	2480	3.22	2.10

BLE

BLE				
Mode	Channel Number	Frequency (MHz)	Conducted Power (dBm)	Output Power (mW)
GFSK(1Mbps)	0	2402	2.08	1.61
	19	2440	1.49	1.41
	39	2480	1.76	1.50
GFSK(2Mbps)	0	2402	2.05	1.60
	19	2440	1.49	1.41
	39	2480	1.75	1.50

**WLAN (5.2Gband)**

5.2G WLAN				
Mode	Channel Number	Frequency (MHz)	Total Power (dBm)	Output Power (mW)
802.11a	36	5180	12.13	16.33
	40	5200	12.54	17.95
	48	5240	13.28	21.28
802.11 n-HT20	36	5180	13	19.95
	40	5200	13.4	21.88
	48	5240	14.16	26.06
802.11 n-HT40	38	5190	12.73	18.75
	46	5230	13.58	22.80
802.11ac-VHT20	36	5180	12.07	16.11
	40	5200	12.48	17.70
	48	5240	13.23	21.04
802.11ac-VHT40	38	5190	12.77	18.92
	46	5230	13.62	23.01
802.11ac-VHT80	42	5210	13.34	21.58

WLAN (5.8Gband)

5.8G WLAN				
Mode	Channel Number	Frequency (MHz)	Total Power (dBm)	Output Power (mW)
802.11a	149	5745	12.43	17.50
	157	5785	12.91	19.54
	165	5825	13.08	20.32
802.11 n-HT20	149	5745	13.27	21.23
	157	5785	13.81	24.04
	165	5825	13.98	25.00
802.11 n-HT40	151	5755	12.74	18.79
	159	5795	13.3	21.38
802.11ac-VHT20	149	5745	12.37	17.26
	157	5785	12.89	19.45
	165	5825	13.13	20.56
802.11ac-VHT40	151	5755	12.69	18.58
	159	5795	13.22	20.99
802.11ac-VHT80	155	5775	13.4	21.88



LTE Conducted Power

General Note:

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



LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	23.07	23.1	22.91
1.4	1	2		23.25	23.21	23.08
1.4	1	5		23.04	23.06	22.93
1.4	3	0		23.14	23.11	22.97
1.4	3	1		23.18	23.11	22.95
1.4	3	2		23.17	23.12	22.96
1.4	6	0		22.19	22.14	21.92
1.4	1	0	16-QAM	22.1	22.31	21.8
1.4	1	2		22.31	22.46	21.95
1.4	1	5		22.08	22.33	21.75
1.4	3	0		22.18	22.24	21.93
1.4	3	1		22.22	22.22	21.95
1.4	3	2		22.16	22.24	21.96
1.4	6	0		21.35	21.2	21.05
3	1	0	QPSK	23.17	23.1	22.93
3	1	7		23.41	23.4	23.25
3	1	14		23.12	23.06	22.99
3	8	0		22.16	22.11	21.96
3	8	4		22.22	22.13	22
3	8	7		22.18	22.1	21.92
3	15	0		22.12	22.05	21.86
3	1	0	16-QAM	22.32	22.13	22.18
3	1	7		22.61	22.48	22.48
3	1	14		22.35	22.13	22.18
3	8	0		21.15	21.12	20.86
3	8	4		21.18	21.17	20.92
3	8	7		21.2	21.14	20.92
3	15	0		21.01	20.96	20.93



LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	23.12	23.01	22.83
5	1	12		23.53	23.35	23.27
5	1	24		23.16	23.01	22.81
5	12	0		22.08	22.1	21.9
5	12	6		22.2	22.17	21.97
5	12	11		22.2	22.12	21.96
5	25	0		22.18	22.12	21.93
5	1	0	16-QAM	22.18	22.34	22
5	1	12		22.61	22.7	22.35
5	1	24		22.17	22.32	21.97
5	12	0		21.14	21.01	21.04
5	12	6		21.3	21.1	21.05
5	12	11		21.26	21.1	21.01
5	25	0		21.13	21.12	20.89
10	1	0	QPSK	23.12	23.13	23.11
10	1	24		23.29	23.19	23.13
10	1	49		23.14	23.06	22.97
10	25	0		22.11	22.15	22.1
10	25	12		22.17	22.12	22
10	25	24		22.23	22.18	22
10	50	0		22.13	22.11	22.07
10	1	0	16-QAM	22.31	22.15	22.36
10	1	24		22.42	22.2	22.4
10	1	49		22.27	22.05	22.18
10	25	0		21.13	21.15	21.06
10	25	12		21.15	21.14	20.99
10	25	24		21.28	21.2	21.03
10	50	0		21.08	21.15	21.05



LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	23.07	23.18	22.92
15	1	37		23.43	23.46	23.34
15	1	74		23.05	23.04	22.86
15	36	0		22.22	22.17	22.18
15	36	18		22.3	22.18	22.11
15	36	39		22.28	22.2	22.08
15	75	0		22.23	22.18	22.14
15	1	0	16-QAM	22.09	22.14	22.16
15	1	38		22.31	22.31	22.52
15	1	75		22.09	21.91	22.06
15	36	0		21.11	21.06	21.07
15	36	18		21.2	21.09	21.05
15	36	39		21.22	21.15	21.01
15	75	0		21.15	21.16	21.08
20	1	0	QPSK	22.94	22.97	22.86
20	1	49		23.27	23.2	23.21
20	1	99		22.92	22.82	22.81
20	50	0		21.97	22.09	22.11
20	50	24		22.15	22.14	22.07
20	50	49		22.15	22.1	22.04
20	100	0		22.11	22.12	22.09
20	1	0	16-QAM	22.08	22.02	21.85
20	1	49		22.31	22.14	22.25
20	1	99		22.1	21.84	21.8
20	50	0		21	21.1	21.11
20	50	24		21.15	21.12	21.14
20	50	49		21.19	21.11	21.05
20	100	0		21.06	21.12	21.08



LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	22.69	22.56	22.61
1.4	1	2		22.79	22.73	22.76
1.4	1	5		22.75	22.56	22.58
1.4	3	0		22.73	22.75	22.66
1.4	3	1		22.74	22.7	22.66
1.4	3	2		22.73	22.72	22.66
1.4	6	0		21.68	21.65	21.65
1.4	1	0	16-QAM	21.55	21.69	21.88
1.4	1	2		21.73	21.82	21.91
1.4	1	5		21.57	21.7	21.81
1.4	3	0		21.77	21.83	21.65
1.4	3	1		21.79	21.81	21.77
1.4	3	2		21.75	21.8	21.85
1.4	6	0		20.82	20.9	20.74
3	1	0	QPSK	22.64	22.72	22.62
3	1	7		22.91	23.04	22.55
3	1	14		22.69	22.74	22.27
3	8	0		21.71	21.7	21.55
3	8	4		21.73	21.71	21.56
3	8	7		21.69	21.67	21.59
3	15	0		21.69	21.68	21.64
3	1	0	16-QAM	21.75	22.09	21.54
3	1	7		21.95	22.32	21.78
3	1	14		21.74	22.02	21.49
3	8	0		20.76	20.67	20.6
3	8	4		20.78	20.69	20.7
3	8	7		20.76	20.68	20.63
3	15	0		20.64	20.81	20.5



LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	22.57	22.29	22.13
5	1	12		22.91	22.81	22.66
5	1	24		22.48	22.49	22.37
5	12	0		21.6	21.72	21.58
5	12	6		21.79	21.74	21.59
5	12	11		21.75	21.65	21.61
5	25	0		21.75	21.73	21.61
5	1	0	16-QAM	21.96	21.58	21.61
5	1	12		22.49	22.08	21.89
5	1	24		22.02	21.69	21.53
5	12	0		20.72	20.73	20.72
5	12	6		20.78	20.73	20.82
5	12	11		20.74	20.78	20.76
5	25	0		20.8	20.77	20.68
10	1	0	QPSK	22.71	22.31	22.01
10	1	24		22.87	22.6	22.19
10	1	49		22.82	22.5	22.16
10	25	0		21.73	21.76	21.13
10	25	12		21.66	21.79	21.16
10	25	24		21.6	21.77	21.18
10	50	0		21.58	21.73	21.14
10	1	0	16-QAM	21.6	21.98	21.12
10	1	24		21.84	22.06	21.32
10	1	49		21.64	21.82	21.2
10	25	0		20.29	20.78	20.16
10	25	12		20.43	20.86	20.21
10	25	24		20.34	20.84	20.25
10	50	0		20.36	20.71	20.2



LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	22.63	22.24	22.04
15	1	37		23.14	22.79	22.58
15	1	74		22.77	22.3	22.25
15	36	0		21.83	21.7	21.26
15	36	18		21.89	21.72	21.39
15	36	39		21.86	21.58	21.54
15	75	0		21.87	21.59	21.58
15	1	0	16-QAM	21.83	21.44	21.35
15	1	38		22.27	21.76	21.89
15	1	75		21.99	21.4	21.4
15	36	0		20.84	20.46	20.18
15	36	18		20.8	20.48	20.43
15	36	39		20.85	20.36	20.59
15	75	0		20.75	20.44	20.61
20	1	0	QPSK	22.51	22.08	21.87
20	1	49		22.98	22.47	22.22
20	1	99		22.62	22.2	21.94
20	50	0		21.86	21.49	21.09
20	50	24		21.89	21.71	21.27
20	50	49		21.82	21.44	21.3
20	100	0		21.85	21.39	21.25
20	1	0	16-QAM	21.52	21.27	21.01
20	1	49		22.09	21.78	21.38
20	1	99		21.66	21.15	21.13
20	50	0		20.87	20.34	20.4
20	50	24		20.85	20.31	20.42
20	50	49		20.87	20.33	20.64
20	100	0		20.82	20.46	20.37



LTE Band 5 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	22.94	22.9	23.03
1.4	1	2		23.06	23.01	23.19
1.4	1	5		22.94	22.9	23.06
1.4	3	0		22.92	22.97	23.07
1.4	3	1		22.93	23.01	23.07
1.4	3	2		22.91	22.99	23.07
1.4	6	0		21.9	22	22.07
1.4	1	0	16-QAM	21.81	21.93	22.25
1.4	1	2		21.94	22.12	22.38
1.4	1	5		21.81	21.97	22.29
1.4	3	0		21.91	22.01	22.15
1.4	3	1		21.93	22.04	22.16
1.4	3	2		21.94	22	22.22
1.4	6	0		21.04	21.22	21.18
3	1	0	QPSK	22.84	22.98	23.08
3	1	7		23.16	23.18	23.26
3	1	14		22.9	23.08	23
3	8	0		21.89	21.95	22.07
3	8	4		21.88	21.95	22.07
3	8	7		21.9	21.98	22.04
3	15	0		21.83	21.94	22.05
3	1	0	16-QAM	21.9	22.21	22.23
3	1	7		22.28	22.52	22.52
3	1	14		22	22.29	22.24
3	8	0		20.99	20.95	21.16
3	8	4		20.96	21.01	21.14
3	8	7		21	21.01	21.12
3	15	0		20.79	21.08	20.99



LTE Band 5 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	22.9	22.88	22.95
5	1	12		23.31	23.23	23.31
5	1	24		22.91	22.94	22.97
5	12	0		21.89	21.95	22.06
5	12	6		21.95	22.03	22.12
5	12	11		21.88	21.94	21.98
5	25	0		21.91	21.99	22.04
5	1	0	16-QAM	21.97	22.16	22.14
5	1	12		22.31	22.63	22.49
5	1	24		21.86	22.29	22.09
5	12	0		21.04	20.97	21.13
5	12	6		21.08	21.08	21.22
5	12	11		21	20.96	21.1
5	25	0		20.97	21.06	21.06
10	1	0	QPSK	22.89	22.88	23.03
10	1	24		22.97	23.11	23.17
10	1	49		22.88	23.11	23.04
10	25	0		21.95	21.92	22.18
10	25	12		21.94	21.96	22.12
10	25	24		21.95	22.02	22.1
10	50	0		21.96	22	22.14
10	1	0	16-QAM	21.92	22.12	22.26
10	1	24		22	22.36	22.4
10	1	49		21.93	22.36	22.26
10	25	0		21.03	20.95	21.3
10	25	12		20.95	21.03	21.22
10	25	24		21	21.07	21.19
10	50	0		21.01	21.03	21.19



LTE Band 12 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	23.86	23.87	23.38
1.4	1	2		23.95	23.99	23.64
1.4	1	5		23.86	23.85	23.32
1.4	3	0		23.79	23.89	23.29
1.4	3	1		23.83	23.9	23.33
1.4	3	2		23.87	23.87	23.29
1.4	6	0		22.94	22.97	22.44
1.4	1	0	16-QAM	23.08	22.63	22.29
1.4	1	2		23.17	22.83	22.44
1.4	1	5		23.1	22.6	22.26
1.4	3	0		22.99	22.71	22.32
1.4	3	1		23.02	22.84	22.32
1.4	3	2		23	22.7	22.29
1.4	6	0		21.96	21.89	21.52
3	1	0	QPSK	23.79	23.57	23.39
3	1	7		23.8	23.79	23.61
3	1	14		23.84	23.42	23.3
3	8	0		22.85	22.51	22.45
3	8	4		22.95	22.49	22.42
3	8	7		22.89	22.46	22.39
3	15	0		22.86	22.37	22.32
3	1	0	16-QAM	22.79	22.63	22.55
3	1	7		23.06	22.95	22.78
3	1	14		22.76	22.61	22.48
3	8	0		21.75	21.34	21.4
3	8	4		21.73	21.41	21.4
3	8	7		21.77	21.32	21.35
3	15	0		21.47	21.45	21.24



LTE Band 12 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	23.79	23.44	23.22
5	1	12		24.35	23.67	23.59
5	1	24		23.82	23.35	23.22
5	12	0		22.76	22.39	22.39
5	12	6		22.89	22.41	22.41
5	12	11		22.8	22.37	22.37
5	25	0		22.78	22.38	22.37
5	1	0	16-QAM	22.46	22.62	22.38
5	1	12		22.98	22.99	22.75
5	1	24		22.53	22.63	22.32
5	12	0		21.56	21.29	21.41
5	12	6		21.62	21.37	21.44
5	12	11		21.58	21.31	21.39
5	25	0		21.53	21.44	21.33
10	1	0	QPSK	23.76	23.35	23.31
10	1	24		23.97	23.54	23.48
10	1	49		23.86	23.4	23.33
10	25	0		22.91	22.39	22.43
10	25	12		22.9	22.41	22.41
10	25	24		22.92	22.37	22.38
10	50	0		22.86	22.45	22.38
10	1	0	16-QAM	22.47	22.58	22.54
10	1	24		22.73	22.74	22.68
10	1	49		22.56	22.67	22.5
10	25	0		21.59	21.35	21.48
10	25	12		21.62	21.38	21.46
10	25	24		21.67	21.38	21.42
10	50	0		21.59	21.36	21.38



LTE Band 25 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	23.2	23.04	22.83
1.4	1	2		23.34	23.21	22.92
1.4	1	5		23.19	23.04	22.78
1.4	3	0		23.22	23.14	22.84
1.4	3	1		23.24	23.13	22.82
1.4	3	2		23.26	23.14	22.83
1.4	6	0		22.24	22.14	21.86
1.4	1	0	16-QAM	22.06	22.1	22.05
1.4	1	2		22.19	22.24	22.14
1.4	1	5		22.06	22.07	22.01
1.4	3	0		22.18	22.14	21.92
1.4	3	1		22.23	22.18	21.97
1.4	3	2		22.21	22.13	21.97
1.4	6	0		21.33	21.31	20.92
3	1	0	QPSK	23.19	23.16	22.84
3	1	7		23.49	23.42	23.08
3	1	14		23.21	23.1	22.81
3	8	0		22.19	22.13	21.85
3	8	4		22.22	22.14	21.88
3	8	7		22.16	22.12	21.83
3	15	0		22.12	22.09	21.83
3	1	0	16-QAM	22.41	22.3	21.9
3	1	7		22.68	22.5	22.22
3	1	14		22.38	22.33	21.85
3	8	0		21.1	21.17	20.89
3	8	4		21.14	21.19	20.93
3	8	7		21.13	21.17	20.9
3	15	0		21.17	21.02	20.68



LTE Band 25 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	23.11	23.05	22.91
5	1	12		23.5	23.46	23.28
5	1	24		23.08	23.02	22.85
5	12	0		22.11	22.09	21.91
5	12	6		22.21	22.19	21.91
5	12	11		22.19	22.12	21.85
5	25	0		22.18	22.16	21.86
5	1	0	16-QAM	22.4	22.2	21.96
5	1	12		22.71	22.52	22.42
5	1	24		22.36	22.14	21.88
5	12	0		21.04	21.14	20.98
5	12	6		21.13	21.22	21
5	12	11		21.15	21.16	20.93
5	25	0		21.15	21.1	20.79
10	1	0	QPSK	23.2	23.16	23.01
10	1	24		23.3	23.22	23.03
10	1	49		23.27	23.12	22.89
10	25	0		22.1	22.17	21.98
10	25	12		22.19	22.15	21.92
10	25	24		22.29	22.19	21.85
10	50	0		22.18	22.17	21.93
10	1	0	16-QAM	22.37	22.21	22.25
10	1	24		22.44	22.25	22.28
10	1	49		22.38	22.12	22.12
10	25	0		21.14	21.17	20.95
10	25	12		21.23	21.17	20.92
10	25	24		21.32	21.26	20.86
10	50	0		21.15	21.17	20.95



LTE Band 25 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	23.17	23.07	23.09
15	1	37		23.43	23.49	23.27
15	1	74		23.19	23.05	22.91
15	36	0		22.26	22.21	22.11
15	36	18		22.36	22.26	22.09
15	36	39		22.39	22.25	22.04
15	75	0		22.3	22.23	22.1
15	1	0	16-QAM	22.33	22.17	22.07
15	1	38		22.71	22.47	22.28
15	1	75		22.35	22.04	21.85
15	36	0		21.15	21.21	21.03
15	36	18		21.23	21.2	21.02
15	36	39		21.29	21.22	20.91
15	75	0		21.21	21.16	21.05
20	1	0	QPSK	22.98	23.05	22.86
20	1	49		23.35	23.26	23.15
20	1	99		22.97	22.97	22.71
20	50	0		22.04	22.13	22.18
20	50	24		22.24	22.18	22.12
20	50	49		22.27	22.16	22
20	100	0		22.2	22.15	22.11
20	1	0	16-QAM	22.03	22.06	22.05
20	1	49		22.26	22.26	22.36
20	1	99		22.07	21.96	21.89
20	50	0		21.06	21.12	21.18
20	50	24		21.27	21.19	21.11
20	50	49		21.23	21.15	21.04
20	100	0		21.16	21.13	21.09



LTE Band 26 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	23.5	22.93	23.11
1.4	1	2		23.64	23.08	23.28
1.4	1	5		23.51	22.96	23.11
1.4	3	0		23.52	23.03	23.19
1.4	3	1		23.5	23.02	23.18
1.4	3	2		23.52	23.03	23.17
1.4	6	0		22.45	22.03	22.17
1.4	1	0	16-QAM	22.32	21.99	22.34
1.4	1	2		22.16	22.13	22.47
1.4	1	5		21.96	22.01	22.42
1.4	3	0		22	22.05	22.28
1.4	3	1		22.1	22.08	22.27
1.4	3	2		22.04	22.04	22.33
1.4	6	0		21.13	21.26	21.32
3	1	0	QPSK	23.03	23.02	23.1
3	1	7		23.34	23.35	23.37
3	1	14		23.07	23.03	23.17
3	8	0		21.99	22.03	22.2
3	8	4		21.96	22.04	22.19
3	8	7		21.96	22.06	22.18
3	15	0		21.96	22.02	22.15
3	1	0	16-QAM	22.34	22.24	22.17
3	1	7		22.6	22.5	22.42
3	1	14		22.25	22.34	22.26
3	8	0		21.02	21.1	21.29
3	8	4		21.02	21.17	21.29
3	8	7		21	21.19	21.27
3	15	0		21.09	21	21.08



LTE Band 26 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	22.99	22.88	23.07
5	1	12		23.37	23.34	23.47
5	1	24		22.93	23	23.18
5	12	0		21.98	22.04	22.15
5	12	6		22.05	22.11	22.19
5	12	11		21.94	22.06	22.1
5	25	0		22.02	22.07	22.16
5	1	0	16-QAM	22.27	22.05	22.16
5	1	12		22.8	22.63	22.56
5	1	24		22.21	22.18	22.22
5	12	0		21.1	21.1	21.33
5	12	6		21.05	21.24	21.31
5	12	11		21	21.12	21.26
5	25	0		21.07	21.07	21.2
10	1	0	QPSK	22.95	22.92	23.06
10	1	24		23.06	23.17	23.19
10	1	49		22.89	23.18	23.18
10	25	0		22.02	22.02	22.22
10	25	12		21.95	22.09	22.12
10	25	24		22.05	22.08	22.18
10	50	0		22.03	22.08	22.16
10	1	0	16-QAM	22.05	22.19	22.32
10	1	24		22.12	22.43	22.42
10	1	49		21.99	22.45	22.36
10	25	0		21.1	21.06	21.35
10	25	12		21.07	21.11	21.27
10	25	24		21.1	21.09	21.26
10	50	0		21.07	21.11	21.29



LTE Band 26 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	23.02	22.91	22.88
15	1	37		23.24	23.35	23.34
15	1	74		23.1	23.01	23.1
15	36	0		22.02	22.01	22.17
15	36	18		22.06	22.1	22.19
15	36	39		22.05	22.14	22.18
15	75	0		22.07	22.06	22.19
15	1	0	16-QAM	21.98	22.08	21.94
15	1	38		22.15	22.46	22.51
15	1	75		22.05	22.25	22.1
15	36	0		20.98	20.98	21.17
15	36	18		21.02	21.1	21.22
15	36	39		21.06	21.12	21.19
15	75	0		21.12	21.09	21.16



LTE Band 26 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	23.61	22.99	22.97
1.4	1	2		23.72	23.17	23.09
1.4	1	5		23.59	23	22.97
1.4	3	0		23.66	23.04	22.99
1.4	3	1		23.58	23.08	23.03
1.4	3	2		23.63	23.06	23.01
1.4	6	0		22.58	22.05	21.99
1.4	1	0	16-QAM	22.41	22.02	22.3
1.4	1	2		22.33	22.19	22.41
1.4	1	5		22.05	22.04	22.29
1.4	3	0		22.31	22.12	22.17
1.4	3	1		22.14	22.15	22.16
1.4	3	2		22.19	22.1	22.17
1.4	6	0		21.35	21.32	21.1
3	1	0	QPSK	23.51	23.15	22.99
3	1	7		23.8	23.33	23.33
3	1	14		23.27	22.94	23.05
3	8	0		22.19	22.07	22.02
3	8	4		22.26	22.06	22.02
3	8	7		22.15	22.01	22
3	15	0		22.22	22.05	22.01
3	1	0	16-QAM	22.41	22.3	22.07
3	1	7		22.7	22.53	22.43
3	1	14		22.34	22.32	22.11
3	8	0		21.13	21.15	21.14
3	8	4		21.16	21.2	21.11
3	8	7		21.15	21.17	21.14
3	15	0		21.21	20.97	20.95



LTE Band 26 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	23.41	23.01	22.99
5	1	12		23.7	23.5	23.19
5	1	24		23.11	22.95	22.94
5	12	0		22.04	22.01	22.02
5	12	6		22.17	22.15	22.08
5	12	11		22.1	22.03	22.02
5	25	0		22.15	22.03	22.05
5	1	0	16-QAM	22.16	22.31	22.16
5	1	12		22.56	22.66	22.5
5	1	24		22.13	22.3	22.1
5	12	0		21.17	21.07	21.21
5	12	6		21.26	21.15	21.19
5	12	11		21.26	21.04	21.13
5	25	0		21.13	21.11	21.05
10	1	0	QPSK	/	23.2	/
10	1	24		/	23.18	/
10	1	49		/	23	/
10	25	0		/	22.06	/
10	25	12		/	22.08	/
10	25	24		/	22.06	/
10	50	0		/	21.99	/
10	1	0	16-QAM	/	22.13	/
10	1	24		/	22.25	/
10	1	49		/	22.11	/
10	25	0		/	21.07	/
10	25	12		/	21.15	/
10	25	24		/	21.12	/
10	50	0		/	21.11	/



LTE Band 41 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	22.92	22.65	22.44
5	1	12		23.22	22.95	22.75
5	1	24		22.92	22.65	22.43
5	12	0		21.93	21.68	21.48
5	12	6		22.01	21.75	21.54
5	12	11		21.87	21.71	21.45
5	25	0		21.92	21.72	21.52
5	1	0	16-QAM	22.19	21.65	21.49
5	1	12		22.48	21.93	21.77
5	1	24		22.22	21.66	21.48
5	12	0		20.9	20.76	20.56
5	12	6		20.92	20.8	20.57
5	12	11		20.78	20.75	20.52
5	25	0		20.95	20.66	20.48
10	1	0	QPSK	22.93	22.69	22.5
10	1	24		23.07	22.8	22.62
10	1	49		22.91	22.67	22.47
10	25	0		22.03	21.76	21.54
10	25	12		21.98	21.76	21.52
10	25	24		22.02	21.77	21.48
10	50	0		21.99	21.78	21.5
10	1	0	16-QAM	22.27	21.67	21.79
10	1	24		22.41	21.79	21.91
10	1	49		22.25	21.65	21.77
10	25	0		21.06	20.78	20.52
10	25	12		20.96	20.75	20.52
10	25	24		21.06	20.78	20.48
10	50	0		20.99	20.77	20.51



LTE Band 41 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	22.86	22.57	22.46
15	1	37		23.1	22.88	22.73
15	1	74		22.8	22.54	22.41
15	36	0		22.05	21.82	21.53
15	36	18		22.04	21.82	21.56
15	36	39		22	21.81	21.53
15	75	0		22.03	21.82	21.53
15	1	0	16-QAM	22.15	21.57	21.46
15	1	38		22.43	21.85	21.72
15	1	75		22.12	21.56	21.46
15	36	0		20.96	20.78	20.46
15	36	18		20.97	20.78	20.48
15	36	39		20.92	20.77	20.46
15	75	0		20.97	20.72	20.49
20	1	0	QPSK	22.72	22.47	22.29
20	1	49		23.05	22.83	22.65
20	1	99		22.66	22.49	22.26
20	50	0		21.91	21.73	21.45
20	50	24		21.92	21.74	21.49
20	50	49		21.87	21.69	21.39
20	100	0		21.93	21.72	21.44
20	1	0	16-QAM	21.69	21.56	21.3
20	1	49		22.01	21.92	21.63
20	1	99		21.64	21.58	21.26
20	50	0		20.91	20.72	20.47
20	50	24		20.9	20.7	20.52
20	50	49		20.88	20.67	20.43
20	100	0		20.89	20.71	20.43



LTE Band 66 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	22.23	21.93	22.06
1.4	1	2		22.37	22.15	22.22
1.4	1	5		22.22	21.99	22.09
1.4	3	0		22.25	22.13	22.15
1.4	3	1		22.28	22.08	22.14
1.4	3	2		22.28	22.12	22.14
1.4	6	0		21.19	21.05	21.08
1.4	1	0	16-QAM	21.12	21.06	21.38
1.4	1	2		21.25	21.3	21.5
1.4	1	5		21.11	21.03	21.38
1.4	3	0		21.27	21.18	21.3
1.4	3	1		21.3	21.21	21.31
1.4	3	2		21.31	21.16	21.3
1.4	6	0		20.33	20.26	20.16
3	1	0	QPSK	22.69	22.58	22.53
3	1	7		23	22.9	22.91
3	1	14		22.78	22.56	22.57
3	8	0		21.67	21.56	21.6
3	8	4		21.67	21.61	21.65
3	8	7		21.69	21.56	21.61
3	15	0		21.66	21.54	21.58
3	1	0	16-QAM	22	21.83	21.64
3	1	7		22.29	22.08	21.93
3	1	14		21.99	21.8	21.65
3	8	0		20.68	20.6	20.7
3	8	4		20.71	20.65	20.68
3	8	7		20.7	20.65	20.71
3	15	0		20.8	20.54	20.5



LTE Band 66 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	22.61	22.37	22.16
5	1	12		23.01	22.4	22.56
5	1	24		22.68	22.31	22.42
5	12	0		21.68	21.34	21.42
5	12	6		21.78	21.61	21.44
5	12	11		21.72	21.58	21.34
5	25	0		21.73	21.58	21.3
5	1	0	16-QAM	21.94	21.67	21.37
5	1	12		22.42	21.95	21.59
5	1	24		22.03	21.7	21.15
5	12	0		20.71	20.65	20.33
5	12	6		20.78	20.71	20.29
5	12	11		20.68	20.68	20.2
5	25	0		20.84	20.58	20.21
10	1	0	QPSK	22.73	22.07	22.09
10	1	24		22.64	22.15	22.18
10	1	49		22.33	22.05	22.04
10	25	0		21.28	21.37	21.21
10	25	12		21.26	21.29	21.13
10	25	24		21.29	21.42	21.2
10	50	0		21.31	21.37	21.14
10	1	0	16-QAM	21.47	21.34	21.15
10	1	24		21.67	21.45	21.38
10	1	49		21.62	21.38	21.15
10	25	0		20.31	20.19	20.26
10	25	12		20.29	20.29	20.18
10	25	24		20.33	20.49	20.13
10	50	0		20.36	20.22	20.21



LTE Band 66 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	22.26	22.01	22.14
15	1	37		22.87	22.29	22.45
15	1	74		22.64	22.01	22.05
15	36	0		21.64	21.09	21.22
15	36	18		21.63	21.12	21.18
15	36	39		21.49	21.17	21.11
15	75	0		21.43	21.1	21.19
15	1	0	16-QAM	21.38	21.16	21.14
15	1	38		21.94	21.53	21.53
15	1	75		21.53	21.12	21.07
15	36	0		20.35	20.11	20.19
15	36	18		20.29	20.15	20.15
15	36	39		20.3	20.18	20.08
15	75	0		20.32	20.14	20.21
20	1	0	QPSK	22.05	21.87	21.84
20	1	49		22.52	22.17	22.21
20	1	99		22.2	21.87	21.82
20	50	0		21.55	21.06	21.21
20	50	24		21.4	21.15	21.16
20	50	49		21.3	21.18	20.94
20	100	0		21.33	21.09	21.12
20	1	0	16-QAM	21.05	21.11	20.92
20	1	49		21.49	21.39	21.29
20	1	99		21.14	21.14	20.97
20	50	0		20.42	20.07	20.25
20	50	24		20.42	20.18	20.21
20	50	49		20.38	20.22	20.02
20	100	0		20.37	20.12	20.12



LTE Band 71 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	23.47	23.37	23.34
5	1	12		23.86	23.75	23.66
5	1	24		23.49	23.29	23.32
5	12	0		22.38	22.42	22.32
5	12	6		22.56	22.45	22.38
5	12	11		22.51	22.4	22.35
5	25	0		22.49	22.39	22.39
5	1	0	16-QAM	22.74	22.5	22.43
5	1	12		23.19	22.97	22.71
5	1	24		22.8	22.52	22.44
5	12	0		21.38	21.43	21.35
5	12	6		21.5	21.49	21.43
5	12	11		21.44	21.38	21.43
5	25	0		21.48	21.35	21.34
10	1	0	QPSK	23.56	23.43	23.26
10	1	24		23.7	23.54	23.46
10	1	49		23.63	23.34	23.35
10	25	0		22.54	22.49	22.44
10	25	12		22.51	22.46	22.37
10	25	24		22.57	22.42	22.43
10	50	0		22.58	22.43	22.39
10	1	0	16-QAM	22.71	22.6	22.29
10	1	24		22.93	22.72	22.51
10	1	49		22.8	22.6	22.4
10	25	0		21.53	21.54	21.42
10	25	12		21.47	21.47	21.37
10	25	24		21.57	21.44	21.44
10	50	0		21.57	21.45	21.43



LTE Band 71 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	23.42	23.51	23.29
15	1	37		23.65	23.8	23.6
15	1	74		23.43	23.42	23.34
15	36	0		22.59	22.51	22.49
15	36	18		22.64	22.53	22.47
15	36	39		22.62	22.47	22.55
15	75	0		22.6	22.49	22.51
15	1	0	16-QAM	22.44	22.42	22.5
15	1	38		22.7	22.78	22.9
15	1	75		22.45	22.35	22.51
15	36	0		21.52	21.4	21.4
15	36	18		21.59	21.43	21.42
15	36	39		21.59	21.4	21.47
15	75	0		21.55	21.47	21.47
20	1	0	QPSK	23.75	23.74	23.63
20	1	49		24.2	24.07	23.97
20	1	99		23.75	23.7	23.69
20	50	0		22.99	22.92	23
20	50	24		23.04	22.97	22.9
20	50	49		22.97	22.89	22.95
20	100	0		22.97	22.9	22.96
20	1	0	16-QAM	22.77	22.8	22.7
20	1	49		23.2	23.12	22.87
20	1	99		22.86	22.76	22.59
20	50	0		21.99	21.93	21.89
20	50	24		22.05	21.96	21.85
20	50	49		21.98	21.85	21.82
20	100	0		21.92	21.85	21.88

11. EUT and Test Setup Photo

11.1 EUT Photo

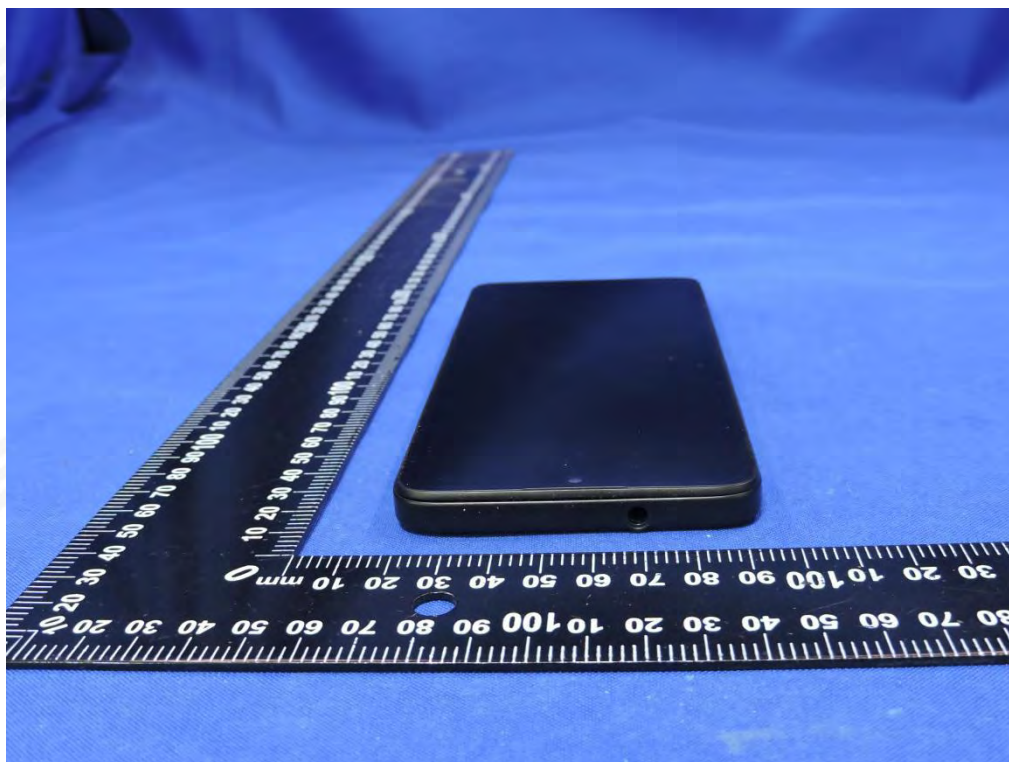
Front side



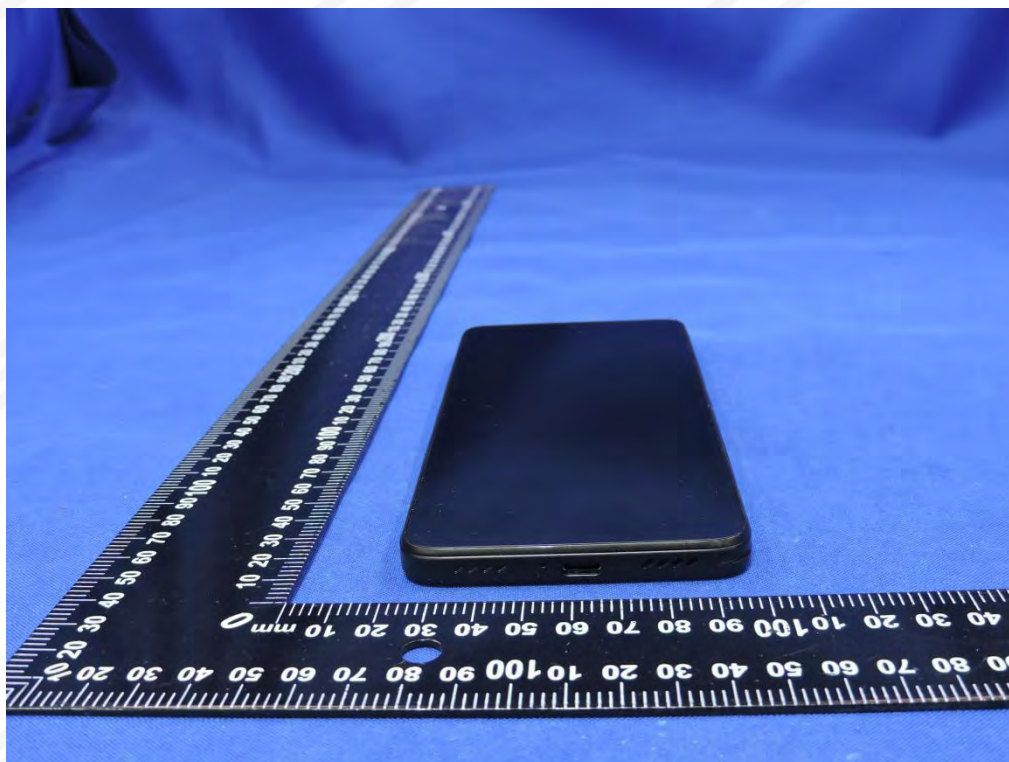
Back side



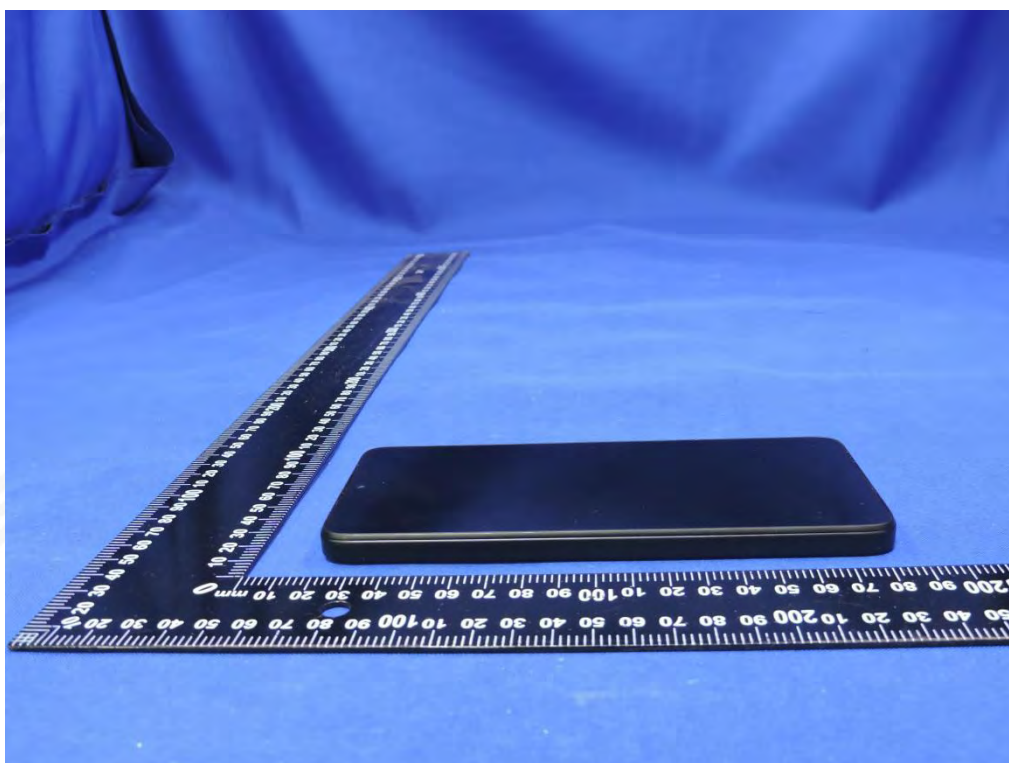
Top side



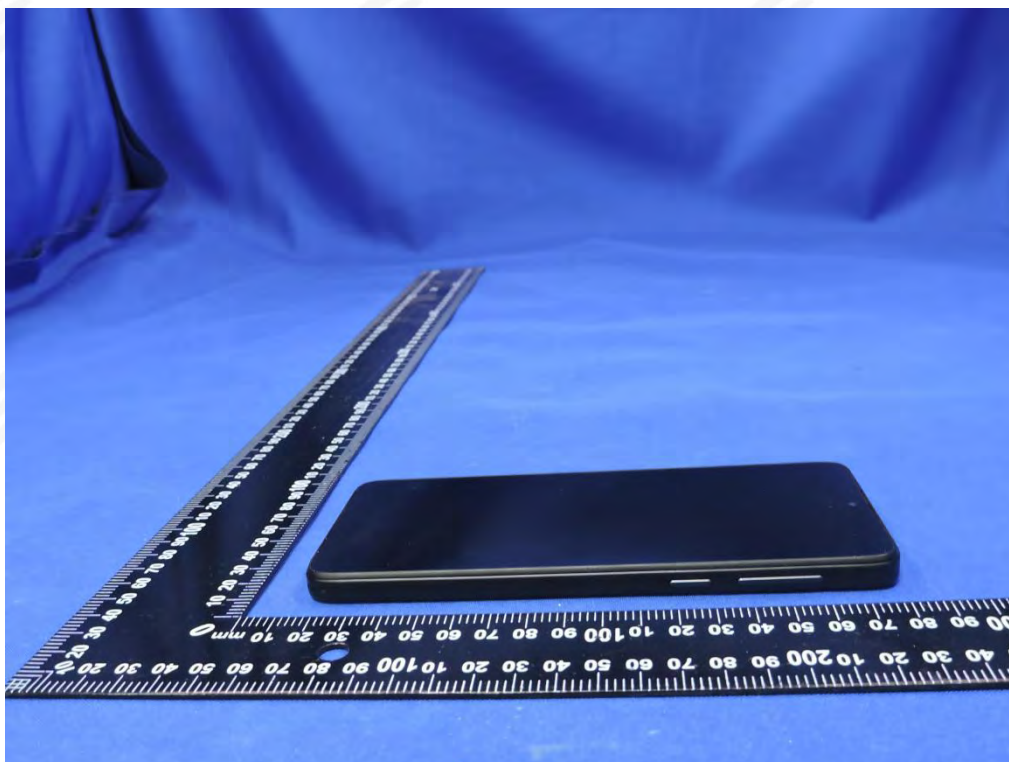
Bottom side



Left side



Right side



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)



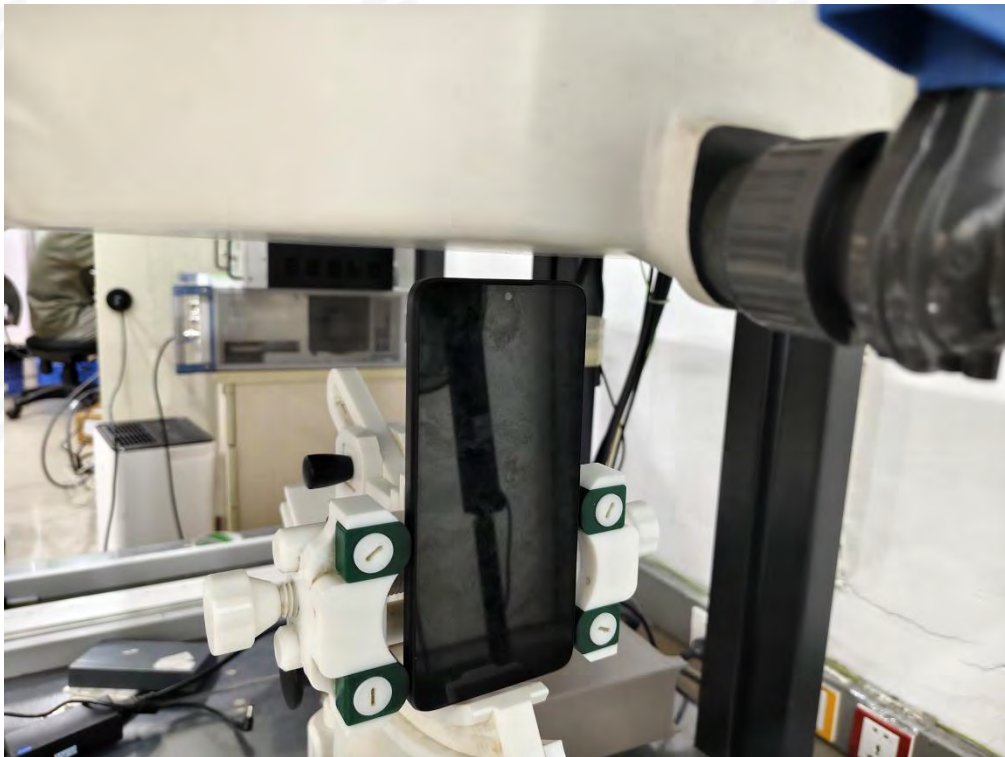
Body Right side(separation distance is 10mm)



Body Bottom side(separation distance is 10mm)

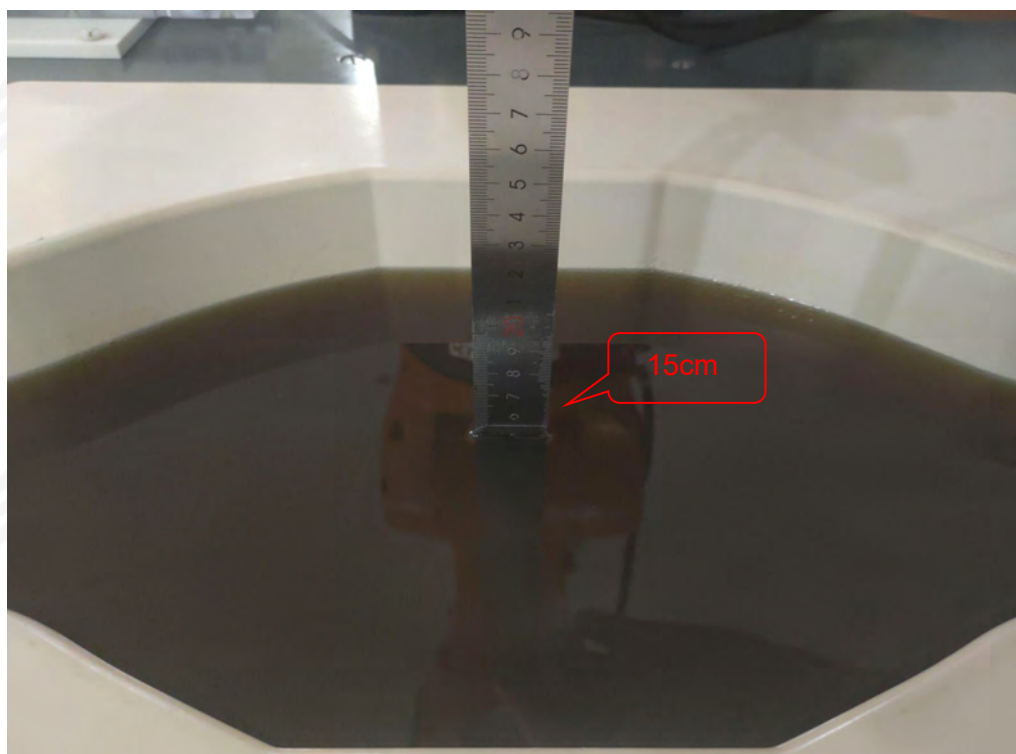


Body Top side(separation distance is 10mm)





Liquid depth (15 cm)





12. SAR Result Summary

12.1 Head SAR

Band	BW (MHz)	Mod.	RB Size	RB offset	Test Position	Freq.	Result 1g (W/Kg)	Power Drift (%)	Max. Turn-up Power (dBm)	Meas. Output Power (dBm)	Scaling Factor	Scaled SAR (W/Kg)	Meas. No.
GSM850	N/A	GPRS Data-4 Slot	N/A	N/A	Right Cheek	848.8	0.155	2.14	29.50	29.09	1.099	0.170	1
					Right Tilt	848.8	0.083	1.54	29.50	29.09	1.099	0.091	/
					Left Cheek	848.8	0.126	-0.39	29.50	29.09	1.099	0.138	/
					Left Tilt	848.8	0.075	3.56	29.50	29.09	1.099	0.082	/
GSM1900	N/A	GPRS Data-4 Slot	N/A	N/A	Right Cheek	1880	0.160	1.82	26.00	25.51	1.119	0.179	3
					Right Tilt	1880	0.095	3.57	26.00	25.51	1.119	0.106	/
					Left Cheek	1880	0.147	-2.41	26.00	25.51	1.119	0.165	/
					Left Tilt	1880	0.070	2.72	26.00	25.51	1.119	0.078	/
WCDMA Band II	N/A	RMC	N/A	N/A	Right Cheek	1852.4	0.107	0.27	22.50	22.25	1.059	0.113	5
					Right Tilt	1852.4	0.065	1.45	22.50	22.25	1.059	0.069	/
					Left Cheek	1852.4	0.093	-1.84	22.50	22.25	1.059	0.099	/
					Left Tilt	1852.4	0.047	-1.31	22.50	22.25	1.059	0.050	/
WCDMA Band IV	N/A	RMC	N/A	N/A	Right Cheek	1752.4	0.206	-3.08	22.00	21.91	1.021	0.210	7
					Right Tilt	1752.4	0.099	-2.26	22.00	21.91	1.021	0.101	/
					Left Cheek	1752.4	0.134	3.68	22.00	21.91	1.021	0.137	/
					Left Tilt	1752.4	0.082	3.82	22.00	21.91	1.021	0.084	/
WCDMA Band V	N/A	RMC	N/A	N/A	Right Cheek	846.6	0.134	-0.77	23.00	22.77	1.054	0.141	9
					Right Tilt	846.6	0.067	2.20	23.00	22.77	1.054	0.071	/
					Left Cheek	846.6	0.116	-3.40	23.00	22.77	1.054	0.122	/
					Left Tilt	846.6	0.059	3.93	23.00	22.77	1.054	0.062	/
LTE Band 2	20M	QPSK	1	49	Right Cheek	1860	0.184	0.47	23.5	23.27	1.054	0.194	11
			50	24	Right Cheek	1860	0.145	-0.01	22.5	22.15	1.084	0.157	/
			1	49	Right Tilt	1860	0.091	2.28	23.5	23.27	1.054	0.096	/
			50	24	Right Tilt	1860	0.076	3.28	22.5	22.15	1.084	0.082	/
			1	49	Left Cheek	1860	0.135	3.89	23.5	23.27	1.054	0.142	/
			50	24	Left Cheek	1860	0.117	3.38	22.5	22.15	1.084	0.127	/
			1	49	Left Tilt	1860	0.068	-3.18	23.5	23.27	1.054	0.072	/
			50	24	Left Tilt	1860	0.043	1.34	22.5	22.15	1.084	0.047	/
LTE Band 4	20M	QPSK	1	49	Right Cheek	1720	0.066	1.38	23	22.98	1.005	0.066	13
			50	24	Right Cheek	1720	0.050	-0.95	22	21.89	1.026	0.051	/
			1	49	Right Tilt	1720	0.023	-0.94	23	22.98	1.005	0.023	/
			50	24	Right Tilt	1720	0.011	3.48	22	21.89	1.026	0.011	/
			1	49	Left Cheek	1720	0.047	3.61	23	22.98	1.005	0.047	/
			50	24	Left Cheek	1720	0.039	2.86	22	21.89	1.026	0.040	/
			1	49	Left Tilt	1720	0.017	3.63	23	22.98	1.005	0.017	/



			50	24	Left Tilt	1720	0.011	-3.30	22	21.89	1.026	0.011	/
LTE Band 5	10M	QPSK	1	24	Right Cheek	844	0.133	1.45	23.5	23.17	1.079	0.143	15
			25	0	Right Cheek	844	0.114	-1.86	22.5	22.18	1.076	0.123	/
			1	24	Right Tilt	844	0.089	-2.74	23.5	23.17	1.079	0.096	/
			25	0	Right Tilt	844	0.071	-0.91	22.5	22.18	1.076	0.076	/
			1	24	Left Cheek	844	0.105	3.07	23.5	23.17	1.079	0.113	/
			25	0	Left Cheek	844	0.097	0.84	22.5	22.18	1.076	0.104	/
			1	24	Left Tilt	844	0.065	-2.97	23.5	23.17	1.079	0.070	/
			25	0	Left Tilt	844	0.053	0.17	22.5	22.18	1.076	0.057	/
LTE Band 12	10M	QPSK	1	24	Right Cheek	704	0.126	-0.36	24	23.97	1.007	0.127	17
			25	24	Right Cheek	704	0.105	-0.06	23	22.92	1.019	0.107	/
			1	24	Right Tilt	704	0.088	-1.26	24	23.97	1.007	0.089	/
			25	24	Right Tilt	704	0.071	3.27	23	22.92	1.019	0.072	/
			1	24	Left Cheek	704	0.112	-1.38	24	23.97	1.007	0.113	/
			25	24	Left Cheek	704	0.099	-3.14	23	22.92	1.019	0.101	/
			1	24	Left Tilt	704	0.061	-1.57	24	23.97	1.007	0.061	/
			25	24	Left Tilt	704	0.047	0.13	23	22.92	1.019	0.048	/
LTE Band 25	20M	QPSK	1	49	Right Cheek	1860	0.276	0.94	23.5	23.35	1.035	0.286	19
			25	49	Right Cheek	1860	0.247	-0.30	22.5	22.27	1.054	0.260	/
			1	49	Right Tilt	1860	0.161	2.81	23.5	23.35	1.035	0.167	/
			25	49	Right Tilt	1860	0.152	3.58	22.5	22.27	1.054	0.160	/
			1	49	Left Cheek	1860	0.223	3.44	23.5	23.35	1.035	0.231	/
			25	49	Left Cheek	1860	0.208	0.19	22.5	22.27	1.054	0.219	/
			1	49	Left Tilt	1860	0.135	-2.67	23.5	23.35	1.035	0.140	/
			25	49	Left Tilt	1860	0.117	-3.91	22.5	22.27	1.054	0.123	/
LTE Band 26	15M	QPSK	1	37	Right Cheek	831.5	0.222	1.88	23.5	23.35	1.035	0.230	21
			36	18	Right Cheek	841.5	0.209	-2.81	22.5	22.19	1.074	0.224	/
			1	37	Right Tilt	831.5	0.143	-3.05	23.5	23.35	1.035	0.148	/
			25	18	Right Tilt	841.5	0.112	1.66	22.5	22.19	1.074	0.120	/
			1	37	Left Cheek	831.5	0.202	1.21	23.5	23.35	1.035	0.209	/
			25	18	Left Cheek	841.5	0.195	-0.54	22.5	22.19	1.074	0.209	/
			1	37	Left Tilt	831.5	0.131	2.36	23.5	23.35	1.035	0.136	/
			25	18	Left Tilt	841.5	0.120	2.19	22.5	22.19	1.074	0.129	/
LTE Band 41	20M	QPSK	1	49	Right Cheek	2506	0.397	2.13	23.5	23.05	1.109	0.440	23
			1	49	Right Cheek	2593	0.367	0.81	23	22.83	1.040	0.382	/
			1	49	Right Cheek	2680	0.351	-2.84	23	22.65	1.084	0.380	/
			50	24	Right Cheek	2506	0.336	1.27	22	21.92	1.019	0.342	/
			1	49	Right Tilt	2506	0.187	-0.32	23.5	23.05	1.109	0.207	/
			50	24	Right Tilt	2506	0.165	-2.96	22	21.92	1.019	0.168	/
			1	49	Left Cheek	2506	0.308	1.15	23.5	23.05	1.109	0.342	/



			50	24	Left Cheek	2506	0.291	3.99	22	21.92	1.019	0.296	/
			1	49	Left Tilt	2506	0.135	2.67	23.5	23.05	1.109	0.150	/
			50	24	Left Tilt	2506	0.127	2.49	22	21.92	1.019	0.129	/
LTE Band 66	20M	QPSK	1	49	Right Cheek	1720	0.086	-0.87	23	22.52	1.117	0.096	25
			50	0	Right Cheek	1720	0.075	3.31	22	21.55	1.109	0.083	/
			1	49	Right Tilt	1720	0.035	2.13	23	22.52	1.117	0.039	/
			50	0	Right Tilt	1720	0.024	-2.93	22	21.55	1.109	0.027	/
			1	49	Left Cheek	1720	0.059	0.52	23	22.52	1.117	0.066	/
			50	0	Left Cheek	1720	0.043	0.62	22	21.55	1.109	0.048	/
			1	49	Left Tilt	1720	0.021	0.57	23	22.52	1.117	0.023	/
			50	0	Left Tilt	1720	0.010	-3.55	22	21.55	1.109	0.011	/
LTE Band 71	20M	QPSK	1	49	Right Cheek	673	0.088	-0.76	24.5	24.2	1.072	0.094	27
			50	24	Right Cheek	673	0.053	-2.76	23.5	23.04	1.112	0.059	/
			1	49	Right Tilt	673	0.025	-1.19	24.5	24.2	1.072	0.027	/
			50	24	Right Tilt	673	0.018	-2.58	23.5	23.04	1.112	0.020	/
			1	49	Left Cheek	673	0.071	2.73	24.5	24.2	1.072	0.076	/
			50	24	Left Cheek	673	0.060	-3.39	23.5	23.04	1.112	0.067	/
			1	49	Left Tilt	673	0.019	-3.42	24.5	24.2	1.072	0.020	/
			50	24	Left Tilt	673	0.007	-0.15	23.5	23.04	1.112	0.008	/
2.4G WLAN	N/A	802.11b	N/A	N/A	Right Cheek	2462	0.108	-3.68	19.00	18.70	1.072	0.116	29
					Right Tilt	2462	0.063	0.13	19.00	18.70	1.072	0.068	/
					Left Cheek	2462	0.095	0.99	19.00	18.70	1.072	0.102	/
					Left Tilt	2462	0.047	2.67	19.00	18.70	1.072	0.050	/
5.2G WLAN	N/A	802.11 n-HT20	N/A	N/A	Right Cheek	5240	0.129	3.26	14.50	14.16	1.081	0.140	31
					Right Tilt	5240	0.080	-3.97	14.50	14.16	1.081	0.087	/
					Left Cheek	5240	0.104	-2.73	14.50	14.16	1.081	0.112	/
					Left Tilt	5240	0.053	0.22	14.50	14.16	1.081	0.057	/
5.8G WLAN	N/A	802.11 n-HT20	N/A	N/A	Right Cheek	5825	0.068	3.13	14.00	13.98	1.005	0.068	33
					Right Tilt	5825	0.037	3.45	14.00	13.98	1.005	0.037	/
					Left Cheek	5825	0.053	-3.61	14.00	13.98	1.005	0.053	/
					Left Tilt	5825	0.029	2.66	14.00	13.98	1.005	0.029	/

Note:

1. Per KDB 447498 D04, 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 ≤ 1.2 W/kg. (The highest reported SAR for



DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power was **0.158 W/Kg** for Head)

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



12.2 Body-worn and Hotspot SAR

Band	BW (MHz)	Mod.	RB Size	RB offset	Test Position	Freq.	Result 1g (W/Kg)	Power Drift (%)	Max. Turn-up Power (dBm)	Meas. Output Power (dBm)	Scaling Factor	Scaled SAR (W/Kg)	Meas. No.
GSM850	N/A	GPRS Data-4 Slot	N/A	N/A	Front Side	848.8	0.368	-2.52	29.50	29.09	1.099	0.404	/
					Back Side	848.8	0.498	-3.60	29.50	29.09	1.099	0.547	2
					Left Side	848.8	0.252	-2.30	29.50	29.09	1.099	0.277	/
					Right Side	848.8	0.237	-2.22	29.50	29.09	1.099	0.260	/
					Top Side	848.8	0.069	-1.02	29.50	29.09	1.099	0.076	/
					Bottom Side	848.8	0.354	1.89	29.50	29.09	1.099	0.389	/
GSM1900	N/A	GPRS Data-4 Slot	N/A	N/A	Front Side	1880	0.521	1.31	26.00	25.51	1.119	0.583	/
					Back Side	1880	0.661	-1.44	26.00	25.51	1.119	0.740	4
					Left Side	1880	0.273	0.65	26.00	25.51	1.119	0.306	/
					Right Side	1880	0.261	1.39	26.00	25.51	1.119	0.292	/
					Bottom Side	1880	0.565	-0.87	26.00	25.51	1.119	0.632	/
WCDMA Band II	N/A	RMC	N/A	N/A	Front Side	1852.4	0.581	2.08	22.50	22.25	1.059	0.615	/
					Back Side	1852.4	0.705	3.19	22.50	22.25	1.059	0.747	6
					Left Side	1852.4	0.303	1.86	22.50	22.25	1.059	0.321	/
					Right Side	1852.4	0.324	-2.44	22.50	22.25	1.059	0.343	/
					Bottom Side	1852.4	0.569	2.77	22.50	22.25	1.059	0.603	/
WCDMA Band IV	N/A	RMC	N/A	N/A	Front Side	1752.4	0.695	-2.09	22.00	21.91	1.021	0.710	/
					Back Side	1712.6	0.715	-0.08	22.00	21.90	1.023	0.732	/
					Back Side	1740	0.706	-2.62	22.00	21.83	1.040	0.734	/
					Back Side	1752.4	0.737	2.47	22.00	21.91	1.021	0.752	8
					Left Side	1752.4	0.468	0.79	22.00	21.91	1.021	0.478	/
					Right Side	1752.4	0.479	-3.37	22.00	21.91	1.021	0.489	/
					Bottom Side	1752.4	0.565	-0.58	22.00	21.91	1.021	0.577	/
WCDMA Band V	N/A	RMC	N/A	N/A	Front Side	846.6	0.416	-1.02	23.00	22.77	1.054	0.439	/
					Back Side	846.6	0.488	1.33	23.00	22.77	1.054	0.515	10
					Left Side	846.6	0.243	-2.89	23.00	22.77	1.054	0.256	/
					Right Side	846.6	0.237	-1.62	23.00	22.77	1.054	0.250	/
					Bottom Side	846.6	0.405	-1.83	23.00	22.77	1.054	0.427	/
LTE Band 2	20M	QPSK	1	49	Front side	1860	0.267	-3.74	23.5	23.27	1.054	0.282	/
			50	24	Front side	1860	0.252	-3.15	22.5	22.15	1.084	0.273	/
			1	49	Back Side	1860	0.343	-1.53	23.5	23.27	1.054	0.362	12
			50	24	Back	1860	0.321	0.97	22.5	22.15	1.084	0.348	/



					Side								
			1	49	Left Side	1860	0.135	1.49	23.5	23.27	1.054	0.142	/
			50	24	Left Side	1860	0.107	0.56	22.5	22.15	1.084	0.116	/
			1	49	Right Side	1860	0.149	-2.98	23.5	23.27	1.054	0.157	/
			50	24	Right Side	1860	0.116	2.17	22.5	22.15	1.084	0.126	/
			1	49	Bottom Side	1860	0.270	-0.52	23.5	23.27	1.054	0.285	/
LTE Band 4	20M	QPSK	50	24	Bottom Side	1860	0.253	-1.83	22.5	22.15	1.084	0.274	/
			1	49	Front side	1720	0.249	-3.02	23	22.98	1.005	0.250	/
			50	24	Front side	1720	0.213	0.68	22	21.89	1.026	0.218	/
			1	49	Back Side	1720	0.321	-3.02	23	22.98	1.005	0.322	14
			50	24	Back Side	1720	0.307	0.68	22	21.89	1.026	0.315	/
			1	49	Left Side	1720	0.181	-3.02	23	22.98	1.005	0.182	/
			50	24	Left Side	1720	0.162	0.68	22	21.89	1.026	0.166	/
			1	49	Right Side	1720	0.156	-3.02	23	22.98	1.005	0.157	/
			50	24	Right Side	1720	0.141	0.68	22	21.89	1.026	0.145	/
			1	49	Bottom Side	1720	0.304	-3.02	23	22.98	1.005	0.305	/
LTE Band 5	10M	QPSK	50	24	Bottom Side	1720	0.287	0.68	22	21.89	1.026	0.294	/
			1	24	Front side	844	0.469	0.33	23.5	23.17	1.079	0.506	/
			25	0	Front side	844	0.427	0.66	22.5	22.18	1.076	0.460	/
			1	24	Back Side	844	0.587	0.19	23.5	23.17	1.079	0.633	16
			25	0	Back Side	844	0.548	1.41	22.5	22.18	1.076	0.590	/
			1	24	Left Side	844	0.363	1.28	23.5	23.17	1.079	0.392	/
			25	0	Left Side	844	0.325	-3.34	22.5	22.18	1.076	0.350	/
			1	24	Right Side	844	0.340	3.10	23.5	23.17	1.079	0.367	/
			25	0	Right Side	844	0.319	2.58	22.5	22.18	1.076	0.343	/
			1	24	Bottom Side	844	0.502	3.41	23.5	23.17	1.079	0.542	/
LTE Band 12	10M	QPSK	25	0	Bottom Side	844	0.491	-0.26	22.5	22.18	1.076	0.529	/
			1	24	Front side	704	0.552	3.04	24	23.97	1.007	0.556	/
			25	24	Front side	704	0.517	3.01	23	22.92	1.019	0.527	/
			1	24	Back Side	704	0.656	-3.78	24	23.97	1.007	0.661	18
			25	24	Back Side	704	0.605	3.92	23	22.92	1.019	0.616	/
			1	24	Left Side	704	0.382	0.45	24	23.97	1.007	0.385	/
			25	24	Left Side	704	0.334	-0.98	23	22.92	1.019	0.340	/
			1	24	Right Side	704	0.352	3.70	24	23.97	1.007	0.354	/
			25	24	Right	704	0.316	3.59	23	22.92	1.019	0.322	/



					Side								
			1	24	Bottom Side	704	0.568	-2.32	24	23.97	1.007	0.572	/
			25	24	Bottom Side	704	0.531	-1.81	23	22.92	1.019	0.541	/
LTE Band 25	20M	QPSK	1	49	Front side	1860	0.521	-2.83	23.5	23.35	1.035	0.539	/
			50	49	Front side	1860	0.509	-3.03	22.5	22.27	1.054	0.537	/
			1	49	Back Side	1860	0.614	1.91	23.5	23.35	1.035	0.636	20
			50	49	Back Side	1860	0.594	1.74	22.5	22.27	1.054	0.626	/
			1	49	Left Side	1860	0.420	-2.51	23.5	23.35	1.035	0.435	/
			50	49	Left Side	1860	0.408	3.28	22.5	22.27	1.054	0.430	/
			1	49	Right Side	1860	0.399	-3.79	23.5	23.35	1.035	0.413	/
			50	49	Right Side	1860	0.354	-3.77	22.5	22.27	1.054	0.373	/
			1	49	Bottom Side	1860	0.553	-0.31	23.5	23.35	1.035	0.572	/
			50	49	Bottom Side	1860	0.527	1.49	22.5	22.27	1.054	0.556	/
LTE Band 26	15M	QPSK	1	37	Front side	831.5	0.405	-1.28	23.5	23.35	1.035	0.419	/
			36	18	Front side	841.5	0.373	3.99	22.5	22.19	1.074	0.401	/
			1	37	Back Side	831.5	0.499	1.79	23.5	23.35	1.035	0.517	22
			36	18	Back Side	841.5	0.468	-2.56	22.5	22.19	1.074	0.503	/
			1	37	Left Side	831.5	0.298	-3.63	23.5	23.35	1.035	0.308	/
			36	18	Left Side	841.5	0.264	3.79	22.5	22.19	1.074	0.284	/
			1	37	Right Side	831.5	0.276	1.61	23.5	23.35	1.035	0.286	/
			36	18	Right Side	841.5	0.231	1.17	22.5	22.19	1.074	0.248	/
			1	37	Bottom Side	831.5	0.397	-0.47	23.5	23.35	1.035	0.411	/
			36	18	Bottom Side	841.5	0.325	-1.85	22.5	22.19	1.074	0.349	/
LTE Band 41	20M	QPSK	1	49	Front side	2506	0.197	1.64	23.5	23.05	1.109	0.219	/
			50	24	Front side	2506	0.165	0.14	22	21.92	1.019	0.168	/
			1	49	Back Side	2506	0.239	-1.34	23.5	23.05	1.109	0.265	24
			50	24	Back Side	2506	0.202	-3.14	22	21.92	1.019	0.206	/
			1	49	Left Side	2506	0.116	-2.09	23.5	23.05	1.109	0.129	/
			50	24	Left Side	2506	0.105	-3.77	22	21.92	1.019	0.107	/
			1	49	Right Side	2506	0.108	3.82	23.5	23.05	1.109	0.120	/
			50	24	Right Side	2506	0.093	3.80	22	21.92	1.019	0.095	/
			1	49	Bottom Side	2506	0.145	-3.90	23.5	23.05	1.109	0.161	/
			50	24	Bottom Side	2506	0.130	-3.49	22	21.92	1.019	0.132	/
LTE Band 66	20M	QPSK	1	49	Front side	1720	0.181	-1.37	23	22.52	1.117	0.202	/
			50	0	Front	1720	0.160	-3.16	22	21.55	1.109	0.177	/



					side								
			1	49	Back Side	1720	0.225	-1.63	23	22.52	1.117	0.251	26
			50	0	Back Side	1720	0.206	-0.24	22	21.55	1.109	0.228	/
			1	49	Left Side	1720	0.097	-0.54	23	22.52	1.117	0.108	/
			50	0	Left Side	1720	0.084	3.46	22	21.55	1.109	0.093	/
			1	49	Right Side	1720	0.099	1.53	23	22.52	1.117	0.111	/
			50	0	Right Side	1720	0.073	-0.26	22	21.55	1.109	0.081	/
			1	49	Bottom Side	1720	0.167	-0.36	23	22.52	1.117	0.187	/
			50	0	Bottom Side	1720	0.102	-3.35	22	21.55	1.109	0.113	/
LTE Band 71	20M	QPSK	1	49	Front side	673	0.267	-0.48	24.5	24.2	1.072	0.286	/
			50	24	Front side	673	0.250	2.14	23.5	23.04	1.112	0.278	/
			1	49	Back Side	673	0.311	-2.40	24.5	24.2	1.072	0.333	28
			50	24	Back Side	673	0.296	3.73	23.5	23.04	1.112	0.329	/
			1	49	Left Side	673	0.156	-1.39	24.5	24.2	1.072	0.167	/
			50	24	Left Side	673	0.132	-3.04	23.5	23.04	1.112	0.147	/
			1	49	Right Side	673	0.167	3.52	24.5	24.2	1.072	0.179	/
			50	24	Right Side	673	0.124	1.67	23.5	23.04	1.112	0.138	/
			1	49	Bottom Side	673	0.270	-0.87	24.5	24.2	1.072	0.289	/
			50	24	Bottom Side	673	0.254	0.38	23.5	23.04	1.112	0.282	/
2.4GHz WLAN	N/A	802.11b	N/A	N/A	Front Side	2462	0.265	1.88	19.00	18.70	1.072	0.284	/
					Back Side	2462	0.300	2.75	19.00	18.70	1.072	0.321	30
					Right Side	2462	0.174	-2.01	19.00	18.70	1.072	0.186	/
					Top Side	2462	0.202	2.90	19.00	18.70	1.072	0.216	/
5.2GHz WLAN	N/A	802.11 n-HT20	N/A	N/A	Front Side	5240	0.235	-1.83	14.50	14.16	1.081	0.254	/
					Back Side	5240	0.281	-0.28	14.50	14.16	1.081	0.304	32
					Right Side	5240	0.189	3.11	14.50	14.16	1.081	0.204	/
					Top Side	5240	0.201	-3.11	14.50	14.16	1.081	0.217	/
5.8GHz WLAN	N/A	802.11 n-HT20	N/A	N/A	Front Side	5825	0.145	1.91	14.00	13.98	1.005	0.146	/
					Back Side	5825	0.191	2.95	14.00	13.98	1.005	0.192	34
					Right Side	5825	0.117	-0.01	14.00	13.98	1.005	0.118	/
					Top Side	5825	0.135	3.87	14.00	13.98	1.005	0.136	/

Note:

- The test separation of all above table is 10mm.
- Per KDB 447498 D04, the reported SAR is the measured SAR value adjusted for maximum tune-up tolerance.
 - Tune-up scaling Factor = tune-up limit power (mW) / EUT RF power (mW), where tune-up limit is the maximum rated power among all production units.



- b. Scaled SAR(W/kg)= Measured SAR(W/kg)*Tune-up Scaling Factor
3. Per KDB 248227- When the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg. (The highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power was **0.440** 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.



12.3 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. If the test separation distance is <5mm, 5mm is used for excluded SAR calculation.
4. KDB 447498 / 4.3.2 (2) when standalone SAR test exclusion applies to an antenna that transmits simultaneously with other antennas, the standalone SAR must be estimated according to following to determine simultaneous transmission SAR test exclusion: a) (max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)]·[√f (GHz) /x] W/kg for test separation distances ≤ 50 mm; Where x = 7.5 for 1-g SAR, and x = 18.75 for 10-g SAR. b) 0.4W/Kg for 1-g SAR and 1.0W/Kg for 10-g SAR, when the separation distance is >50mm.

Estimated SAR		Maximum Average Power		Dis.	Frequency(GHz)	Stand alone SAR(1&10g) [W/kg]
		dBm	mW			
BT	Head	3.52	2.249	5	2.402	0.093
	Body			10	2.402	0.019



Simultaneous Mode	Position	Mode	Max. 1-g SAR	1-g Sum SAR
			(W/kg)	(W/kg)
GSM + 2.4G WLAN	Head	GSM	0.179	0.337
		2.4G WLAN	0.158	
	Body	GSM	0.740	1.180
		2.4G WLAN	0.440	
GSM + Bluetooth	Head	GSM	0.179	0.272
		Bluetooth	0.093	
	Body	GSM	0.740	0.759
		Bluetooth	0.019	
GSM + 5G WLAN	Head	GSM	0.179	0.319
		5G WLAN	0.140	
	Body	GSM	0.740	1.044
		5G WLAN	0.304	
WCDMA + 2.4G WLAN	Head	WCDMA	0.210	0.368
		2.4G WLAN	0.158	
	Body	WCDMA	0.752	1.192
		2.4G WLAN	0.440	
WCDMA + Bluetooth	Head	WCDMA	0.210	0.303
		Bluetooth	0.093	
	Body	WCDMA	0.752	0.771
		Bluetooth	0.019	
WCDMA + 5G WLAN	Head	WCDMA	0.210	0.350
		5G WLAN	0.140	
	Body	WCDMA	0.752	1.056
		5G WLAN	0.304	
LTE + 2.4G WLAN	Head	LTE	0.440	0.598
		2.4G WLAN	0.158	
	Body	LTE	0.661	1.101
		2.4G WLAN	0.440	
LTE + Bluetooth	Head	LTE	0.440	0.533
		Bluetooth	0.093	
	Body	LTE	0.661	0.680
		Bluetooth	0.019	
LTE + 5G WLAN	Head	LTE	0.440	0.580
		5G WLAN	0.140	
	Body	LTE	0.661	0.965
		5G WLAN	0.304	

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

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



13. Equipment List

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibration	Calibrated Until
SAR Test System	SATIMO	N/A	V5.3.15.11	N/A	N/A
750MHz Dipole	MVG	SID750	SN 30/14 DIP0G750-331	2023.07.04	2026.07.03
835MHz Dipole	MVG	SID835	SN 30/14 DIP0G835-332	2023.07.04	2026.07.03
1800MHz Dipole	MVG	SID1800	5023-DIP1G800-747	2023.12.20	2026.12.19
1900MHz Dipole	MVG	SID1900	SN 30/14 DIP1G900-333	2023.09.14	2026.09.13
2450MHz Dipole	MVG	SID2450	SN 30/14 DIP2G450-335	2023.07.04	2026.07.03
2600MHz Dipole	MVG	SID2600	SN 30/14 DIP2G600-336	2023.07.04	2026.07.03
Waveguide	MVG	SWG5500	SN 13/14 WGA32	2023.07.04	2026.07.03
E-Field Probe	MVG	SSE2	SN 08/21 EPG0352	2025.09.15	2026.09.14
Dielectric Probe Kit	MVG	SCLMP	SN 32/14 OCPG67	2025.09.15	2026.09.14
Antenna	MVG	ANTA3	SN 07/13 ZNTA52	N/A	N/A
Phantom1	MVG	SAM	SN 32/14 SAM115	N/A	N/A
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)

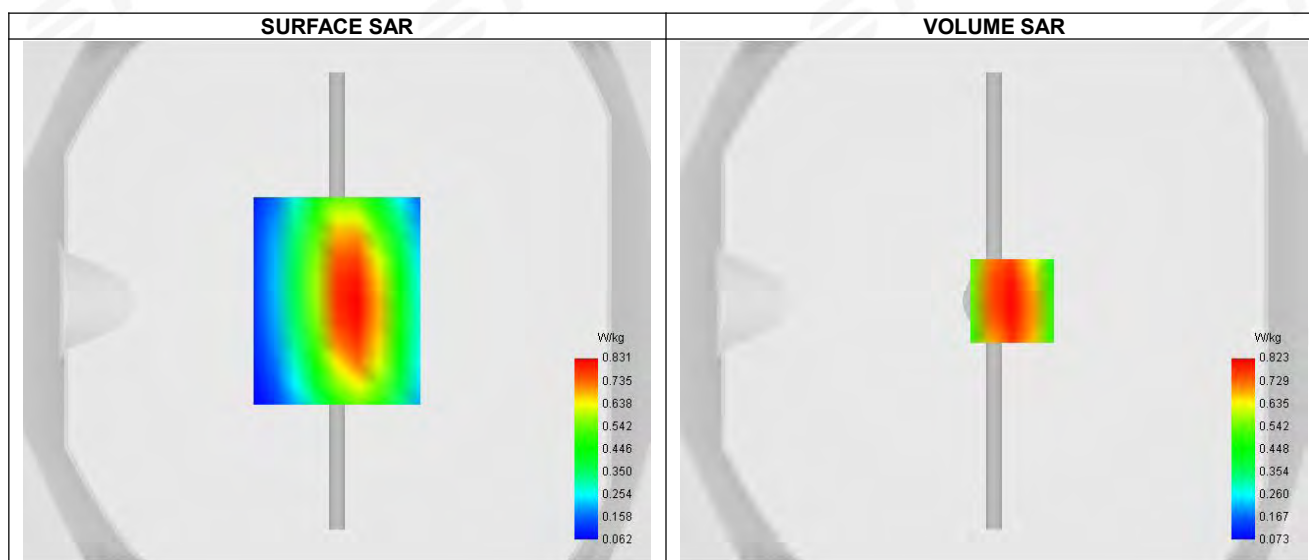
Area scan resolution: dx=8mm, dy=8mm

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

Date of measurement: 2026-03-23

Experimental conditions

Phantom	Validation plane
Device Position	Dipole
Band	750MHz
Channels	Middle
Signal	CW
Frequency (MHz)	750MHz
Relative permittivity	42.89
Conductivity (S/m)	0.89
Probe	SN 08/21 EPGO352
ConvF	1.51
Crest factor	1:1



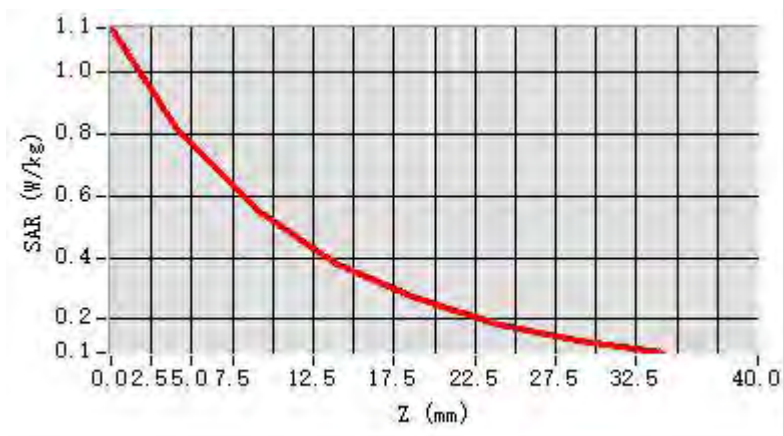
Maximum location: X=7.00, Y=0.00 ; SAR Peak: 1.14 W/kg

D. SAR 1g & 10g

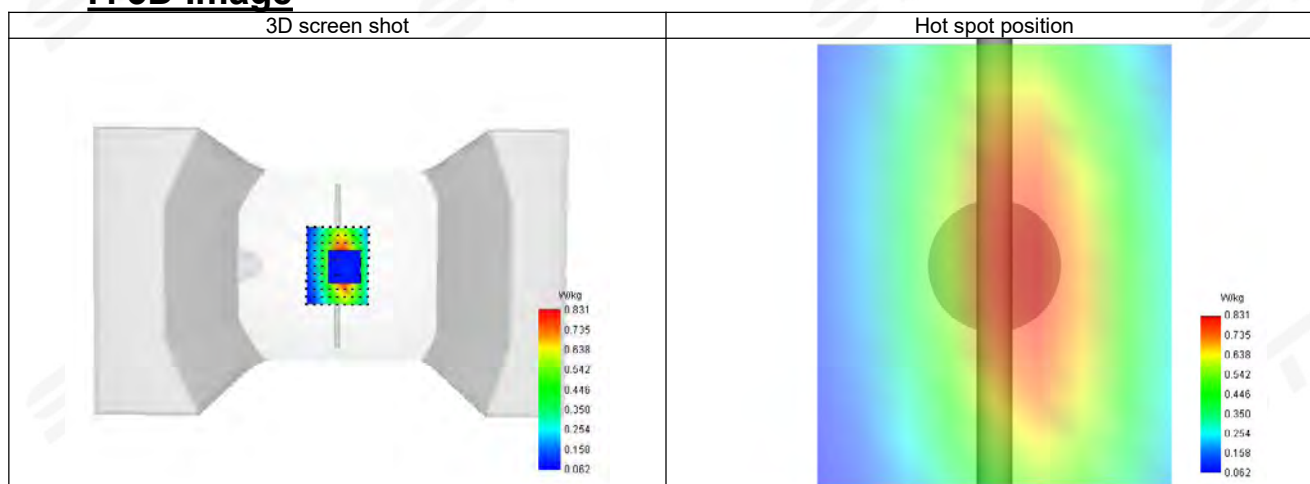
SAR 10g (W/Kg)	0.517
SAR 1g (W/Kg)	0.790
Horizontal validation criteria: minimum distance (mm)	16.974815
Vertical validation criteria: SAR ratio M2/M1 (%)	67.314702

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.143	0.823	0.554	0.380	0.269	0.186	0.129



F. 3D Image



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

Type: Phone measurement (Complete)

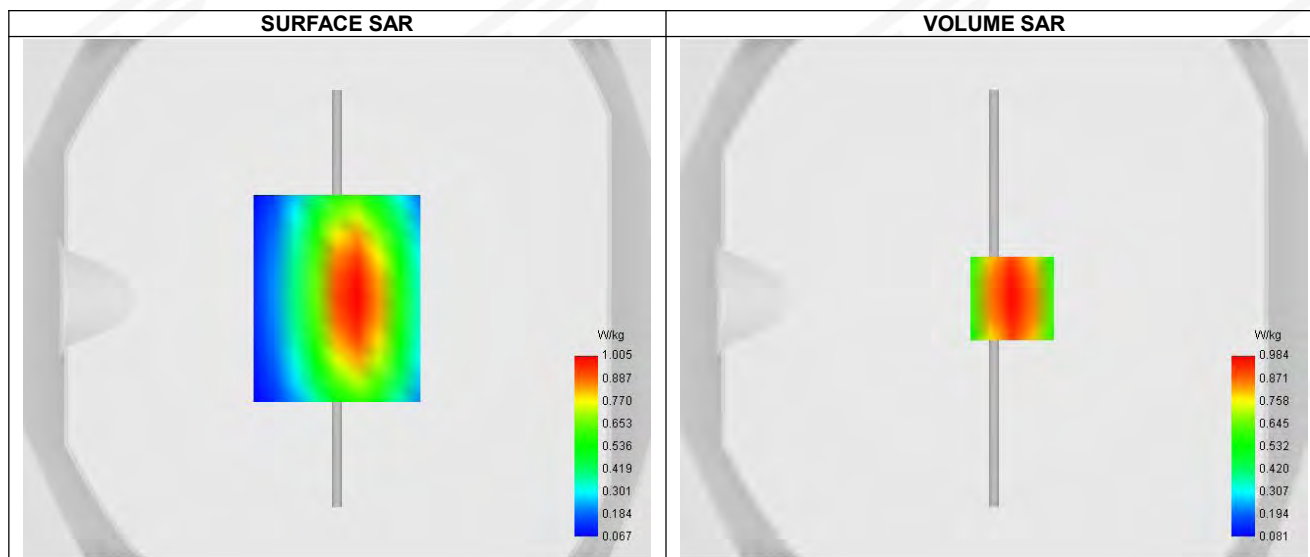
Area scan resolution: dx=8mm, dy=8mm

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

Date of measurement: 2026-03-24

Experimental conditions

Phantom	Validation plane
Device Position	Dipole
Band	835MHz
Channels	Middle
Signal	CW
Frequency (MHz)	835MHz
Relative permittivity	41.89
Conductivity (S/m)	0.90
Probe	SN 08/21 EPGO352
ConvF	1.49
Crest factor:	1:1



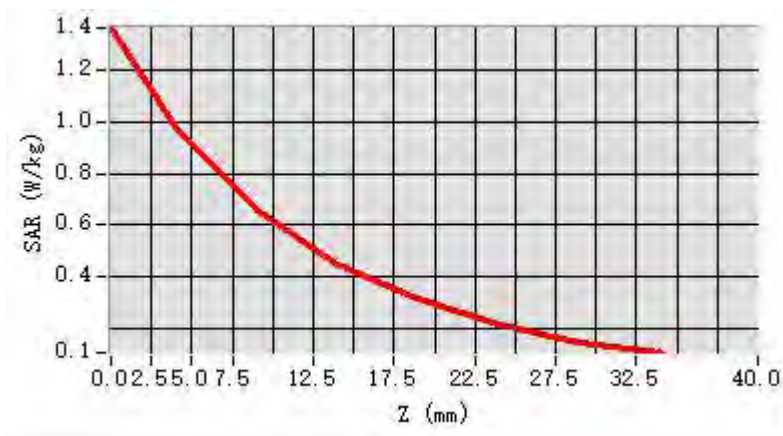
Maximum location: X=7.00, Y=0.00 ; SAR Peak: 1.36 W/kg

D. SAR 1g & 10g

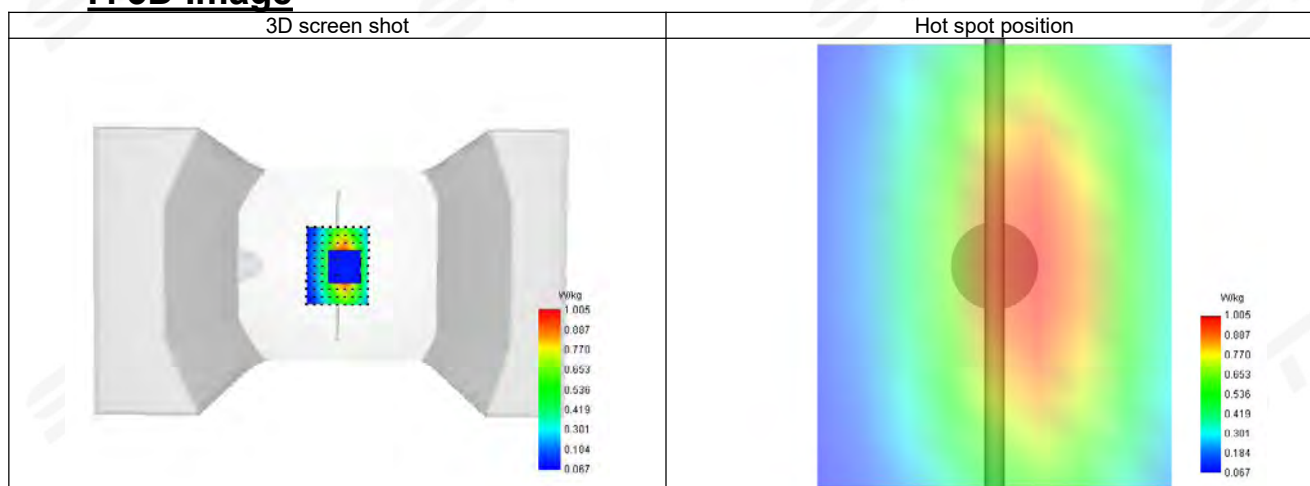
SAR 10g (W/Kg)	0.603
SAR 1g (W/Kg)	0.941
Horizontal validation criteria: minimum distance (mm)	11.269317
Vertical validation criteria: SAR ratio M2/M1 (%)	66.971544

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.367	0.984	0.659	0.446	0.313	0.214	0.147



F. 3D Image



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

Type: Phone measurement (Complete)

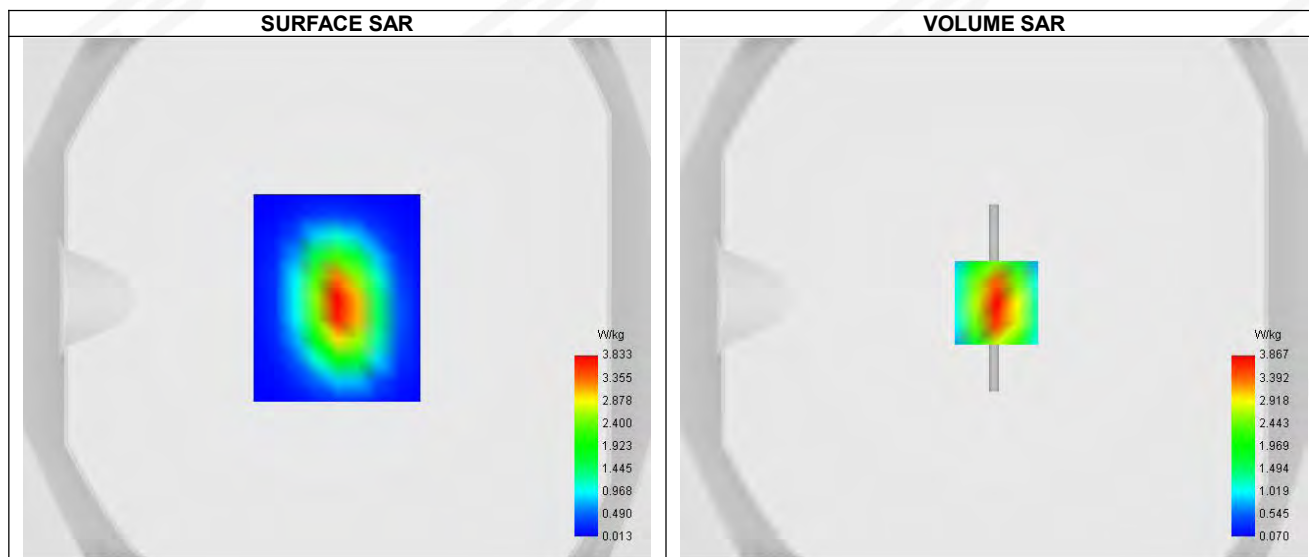
Area scan resolution: dx=8mm, dy=8mm

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

Date of measurement: 2026-03-25

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	1800MHz
Channels	Middle
Signal	CW
Frequency (MHz)	1800MHz
Relative permittivity	39.63
Conductivity (S/m)	1.38
Probe	SN 08/21 EPGO352
ConvF	1.54
Crest factor:	1:1



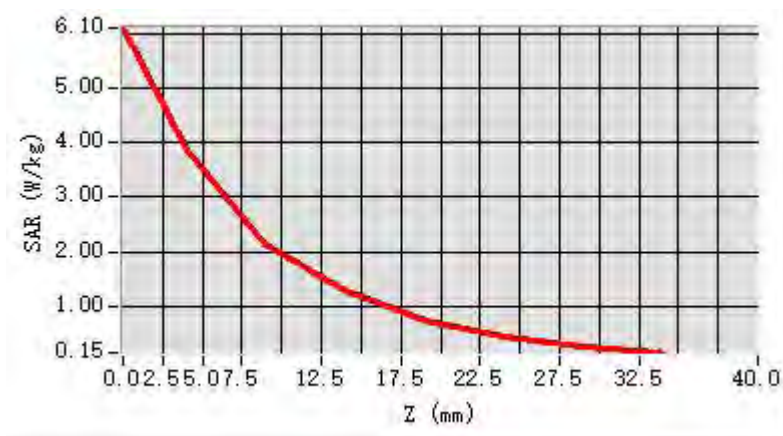
Maximum location: X=1.00, Y=-2.00 ; SAR Peak: 6.05 W/kg

D. SAR 1g & 10g

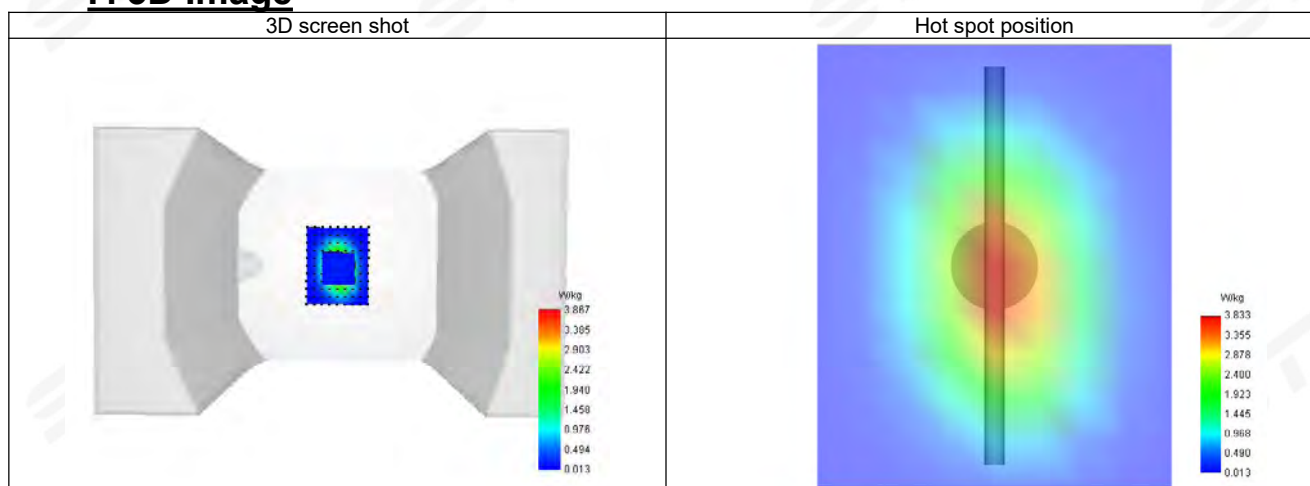
SAR 10g (W/Kg)	1.875
SAR 1g (W/Kg)	3.627
Variation (%)	-1.200
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	55.555110
XM1	1.000000
YM1	-2.000000
ZM1	4.000000
XM2	1.000000
YM2	-2.000000
ZM2	9.000000

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	6.100	3.867	2.148	1.282	0.743	0.431	0.250



F. 3D Image



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

Type: Phone measurement (Complete)

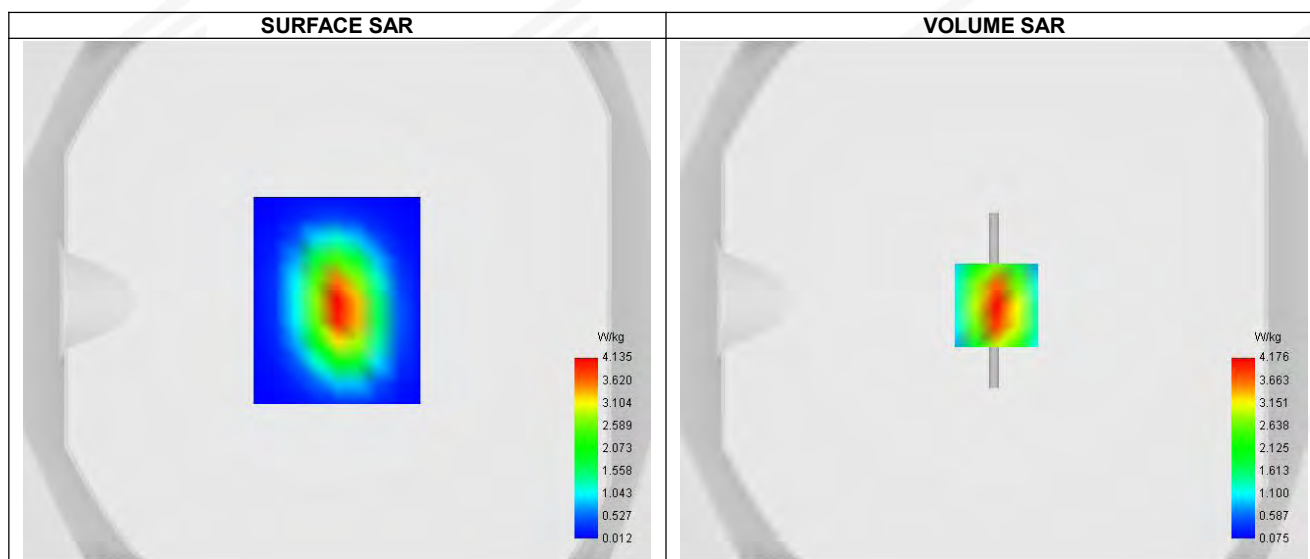
Area scan resolution: dx=8mm, dy=8mm

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

Date of measurement: 2026-03-26

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	1900MHz
Channels	Middle
Signal	CW
Frequency (MHz)	1900MHz
Relative permittivity	39.69
Conductivity (S/m)	1.40
Probe	SN 08/21 EPG0352
ConvF	1.73
Crest factor:	1:1



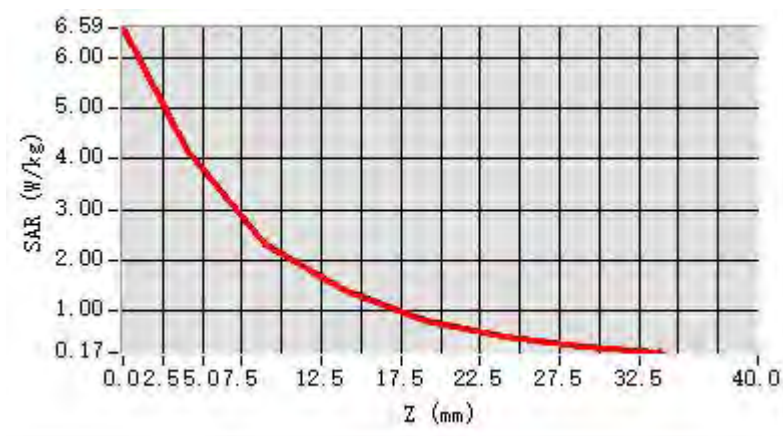
Maximum location: X=1.00, Y=-2.00 ; SAR Peak: 6.53 W/kg

D. SAR 1g & 10g

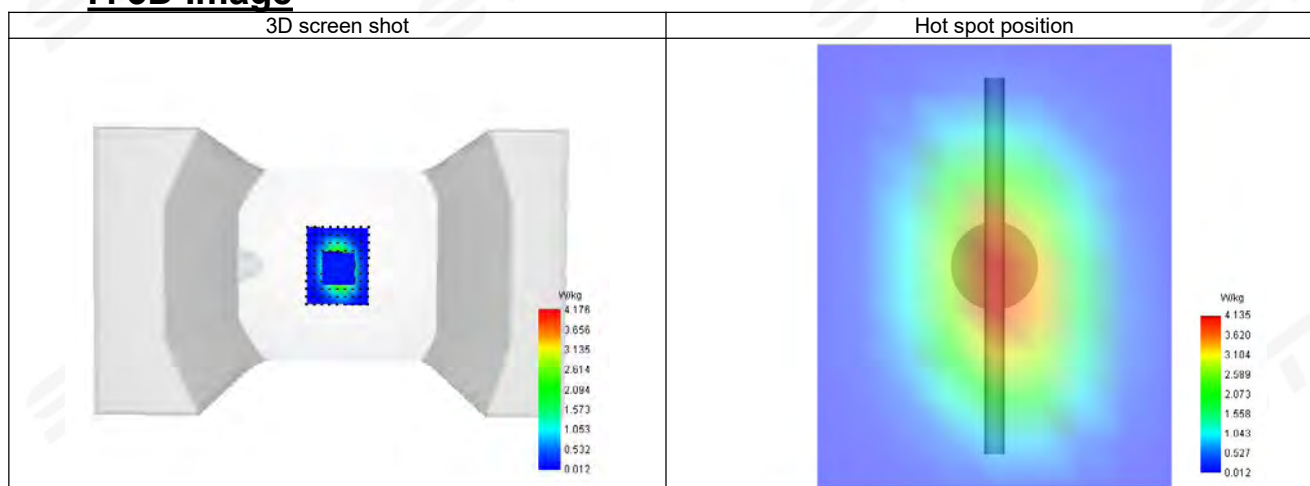
SAR 10g (W/Kg)	2.060
SAR 1g (W/Kg)	4.018
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	55.552624

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	6.588	4.176	2.320	1.384	0.802	0.465	0.269



F. 3D Image



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

Type: Phone measurement (Complete)

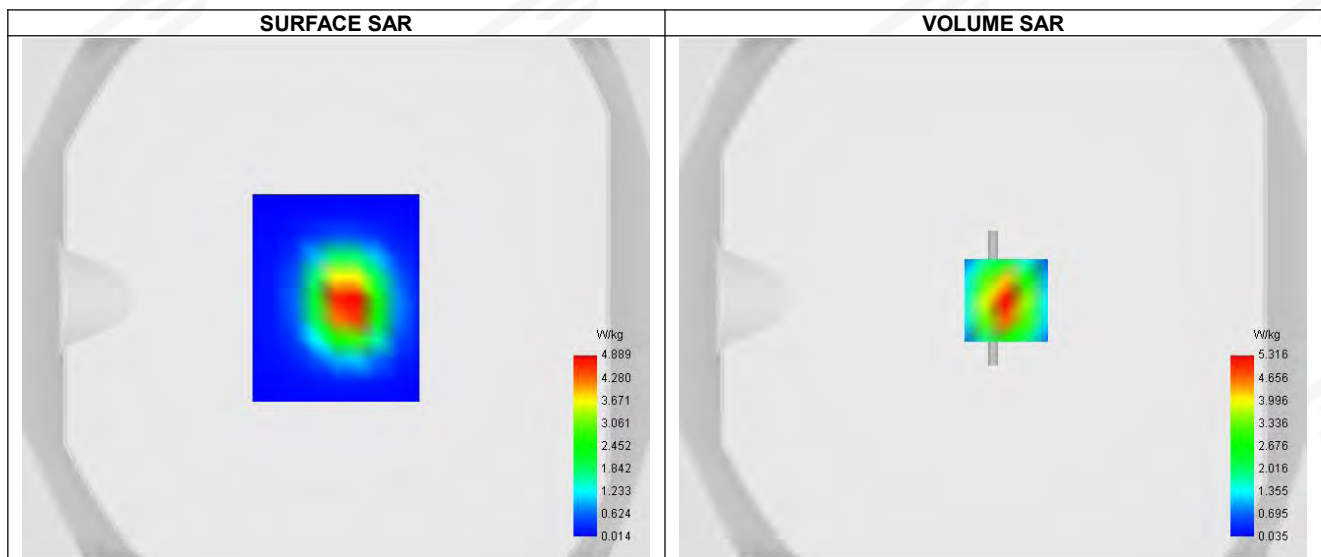
Area scan resolution: dx=8mm, dy=8mm

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

Date of measurement: 2026-03-27

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	2450MHz
Channels	Middle
Signal	CW
Frequency (MHz)	2450
Relative permittivity	40.28
Conductivity (S/m)	1.80
Probe	SN 08/21 EPGO352
ConvF	1.82
Crest factor:	1:1



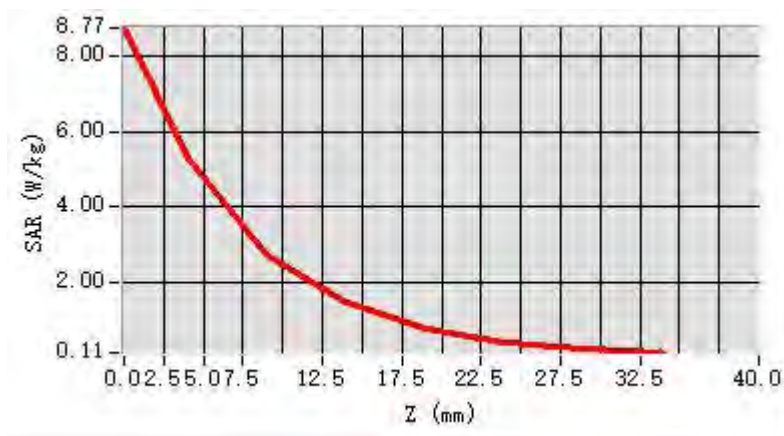
Maximum location: X=5.00, Y=-1.00 ; SAR Peak: 8.72 W/kg

D. SAR 1g & 10g

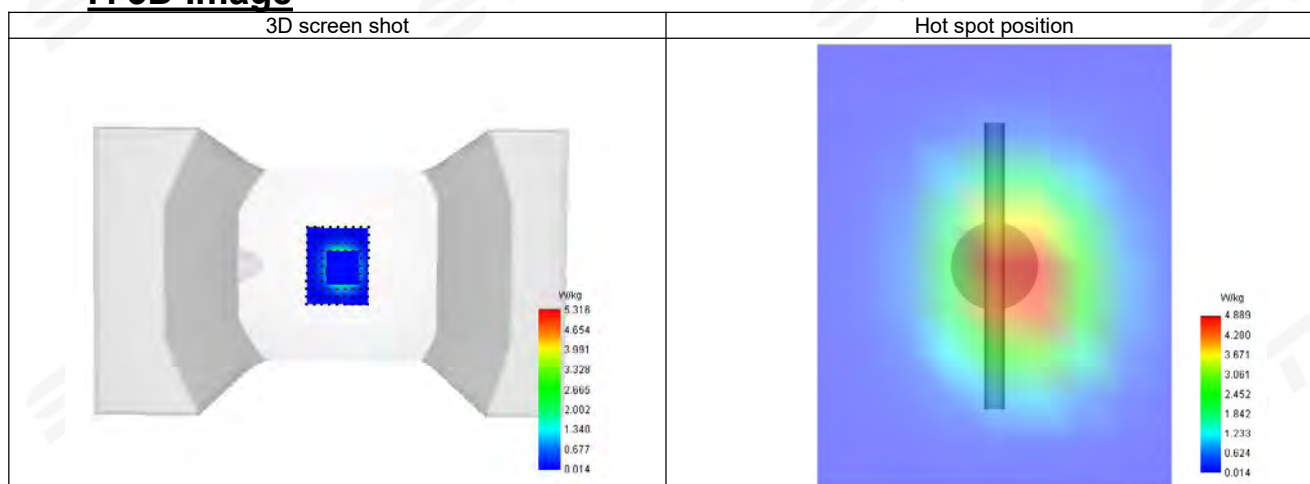
SAR 10g (W/Kg)	2.368
SAR 1g (W/Kg)	5.448
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	51.099515

E. Z Axis Scan

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



F. 3D Image



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

Type: Phone measurement (Complete)

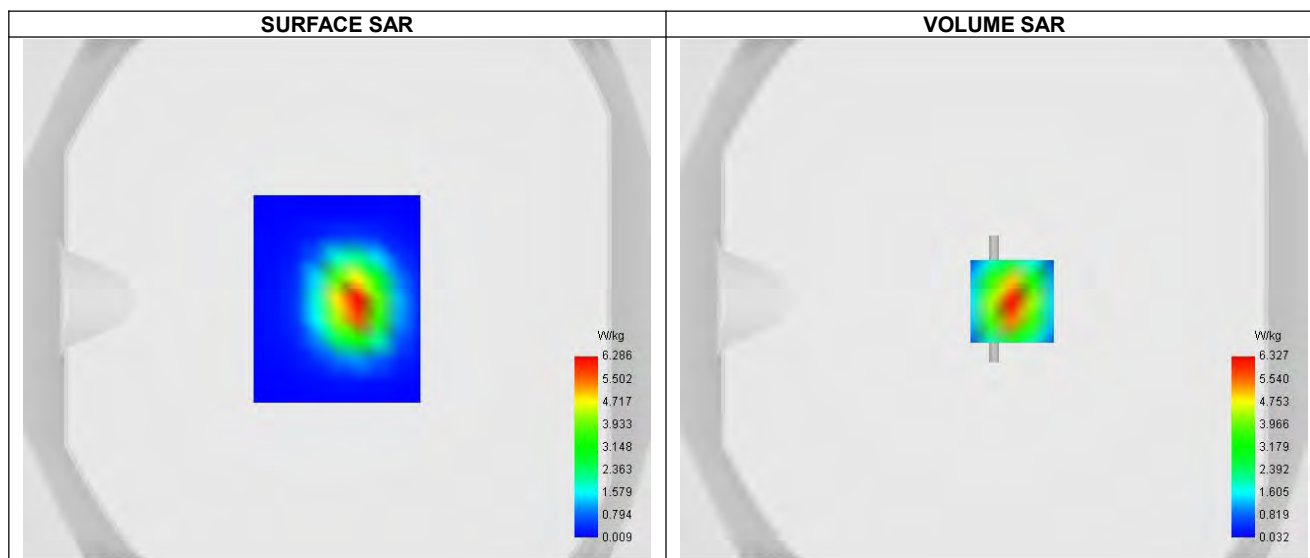
Area scan resolution: dx=8mm,dy=8mm

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

Date of measurement: 2026-03-27

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	2600MHz
Channels	Middle
Signal	CW
Frequency (MHz)	2600
Relative permittivity	39.32
Conductivity (S/m)	1.96
Probe	SN 08/21 EPGO352
ConvF	1.70
Crest factor:	1:1



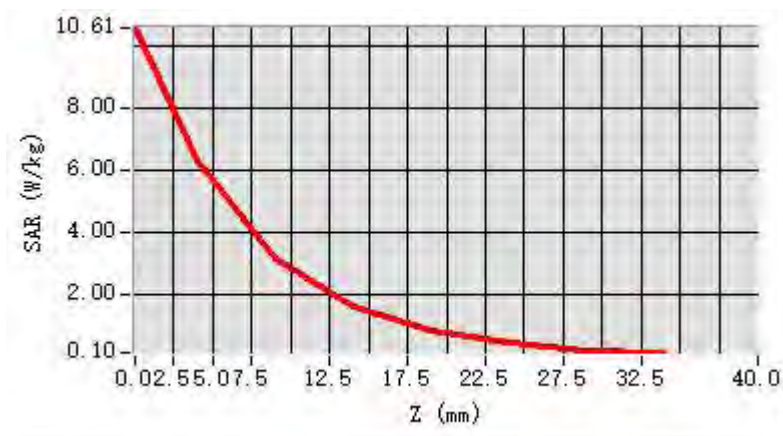
Maximum location: X=7.00, Y=-1.00 ; SAR Peak: 10.53 W/kg

D. SAR 1g & 10g

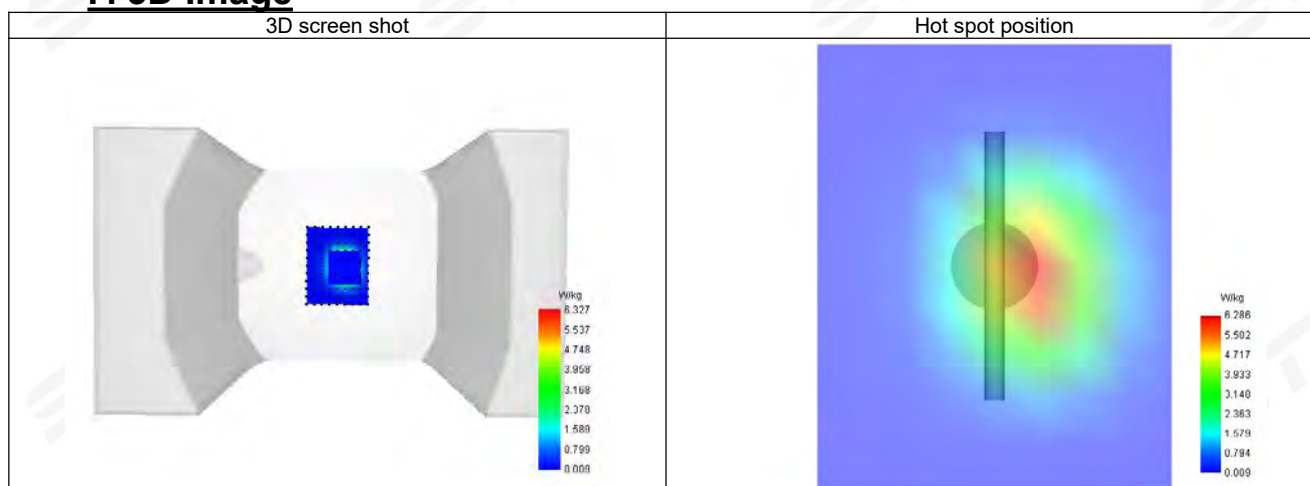
SAR 10g (W/Kg)	2.468
SAR 1g (W/Kg)	5.308
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	49.545855

E. 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



F. 3D Image



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

Type: Dipole measurement (Complete)

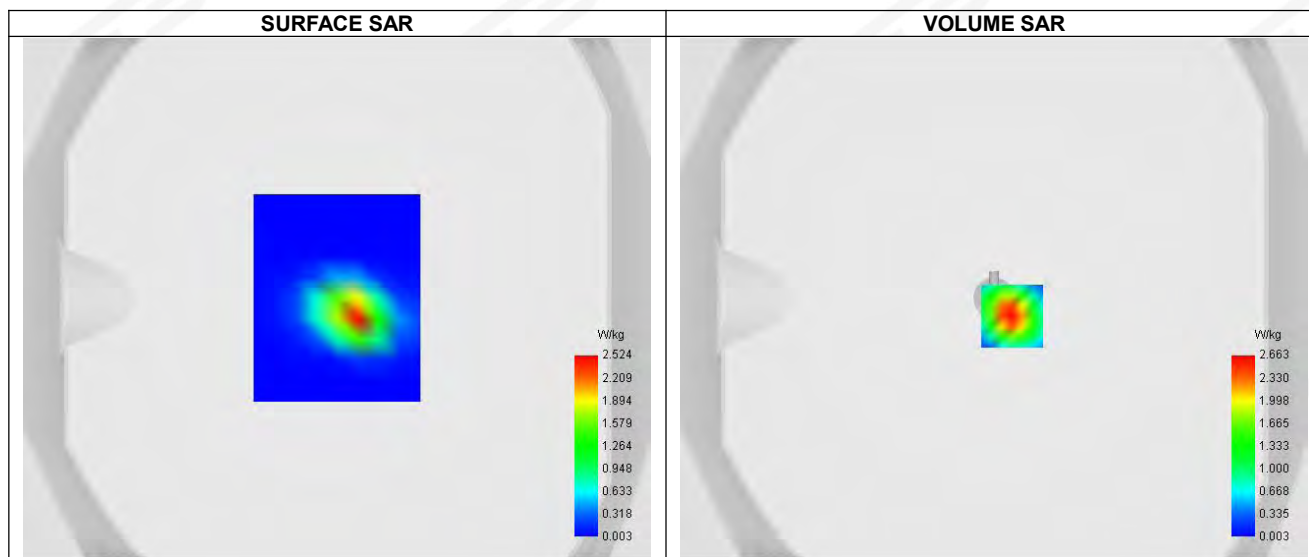
Area scan resolution: dx=8mm,dy=8mm

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

Date of measurement: 2026-03-28

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	5200MHz
Channels	Middle
Signal	CW
Frequency (MHz)	5200
Relative permittivity	35.87
Conductivity (S/m)	4.67
Probe	SN 08/21 EPGO352
ConvF	1.37
Crest factor:	1:1



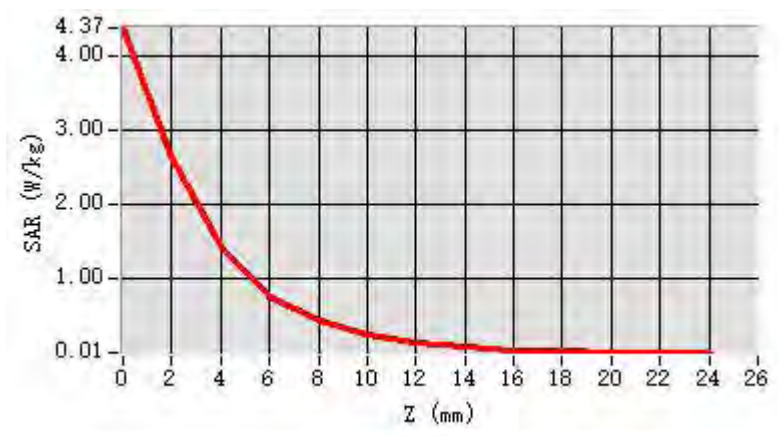
Maximum location: X=7.00, Y=-7.00 ; SAR Peak: 4.62 W/kg

D. SAR 1g & 10g

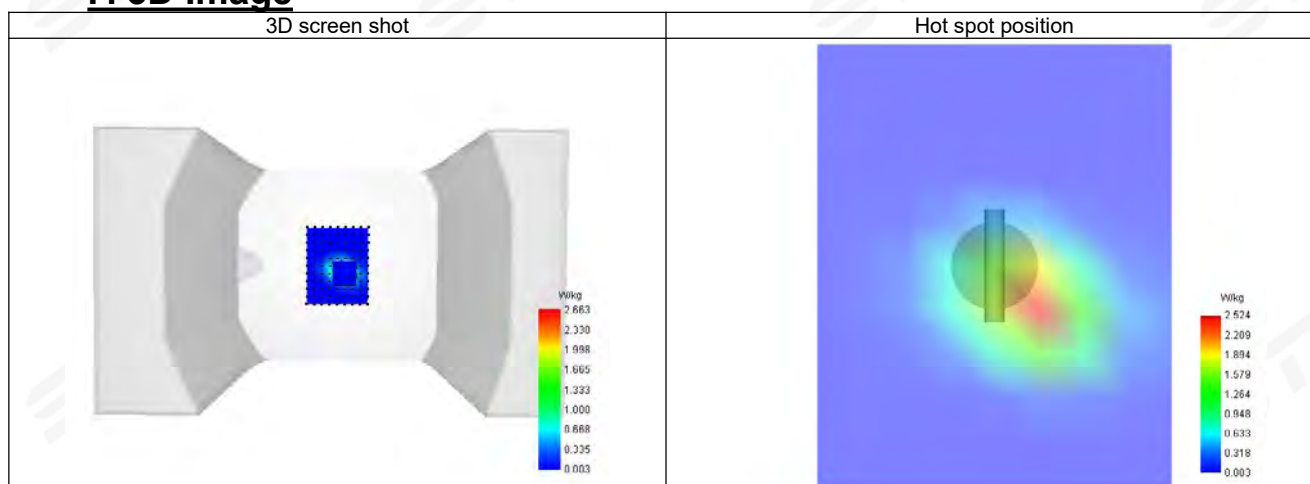
SAR 10g (W/Kg)	0.604
SAR 1g (W/Kg)	1.655
Horizontal validation criteria: minimum distance (mm)	8.944272
Vertical validation criteria: SAR ratio M2/M1 (%)	53.798366

E. Z Axis Scan

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00	24.00
SAR (W/Kg)	4.375	2.663	1.433	0.772	0.446	0.248	0.137	0.076	0.042	0.023	0.013	0.007	0.007



F. 3D Image



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

Type: Dipole measurement (Complete)

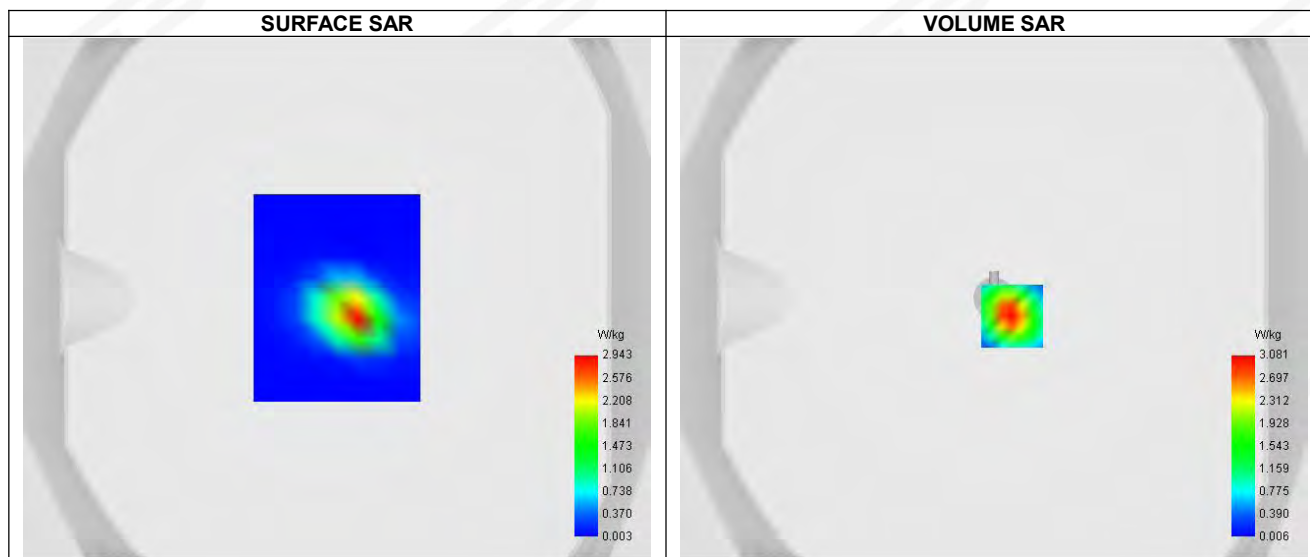
Area scan resolution: dx=8mm,dy=8mm

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

Date of measurement: 2026-03-28

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	5800MHz
Channels	Middle
Signal	CW
Frequency (MHz)	5800
Relative permittivity	35.94
Conductivity (S/m)	5.27
Probe	SN 08/21 EPGO352
ConvF	1.32
Crest factor:	1:1



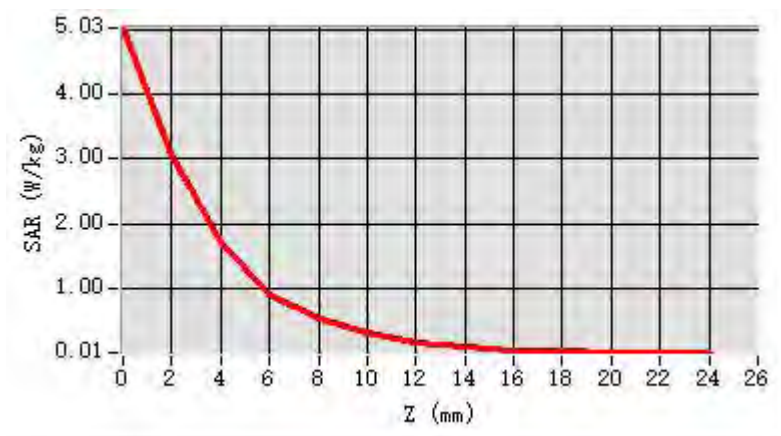
Maximum location: X=7.00, Y=-7.00 ; SAR Peak: 5.28 W/kg

D. SAR 1g & 10g

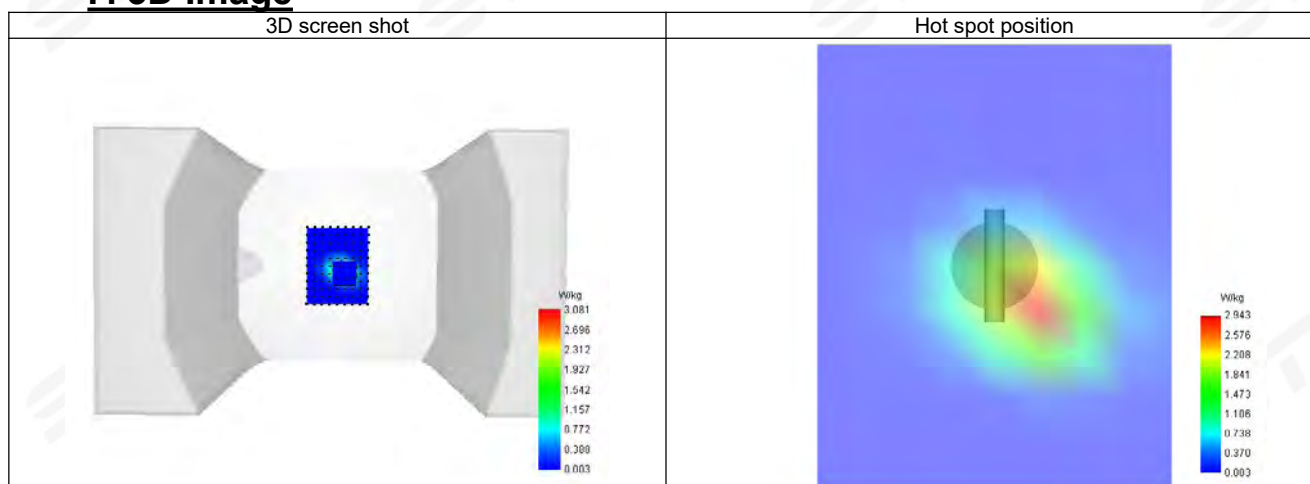
SAR 10g (W/Kg)	0.615
SAR 1g (W/Kg)	2.037
Horizontal validation criteria: minimum distance (mm)	8.944272
Vertical validation criteria: SAR ratio M2/M1 (%)	55.260945

E. Z Axis Scan

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00	24.00
SAR (W/Kg)	5.030	3.081	1.703	0.910	0.543	0.306	0.173	0.097	0.055	0.031	0.017	0.010	0.010



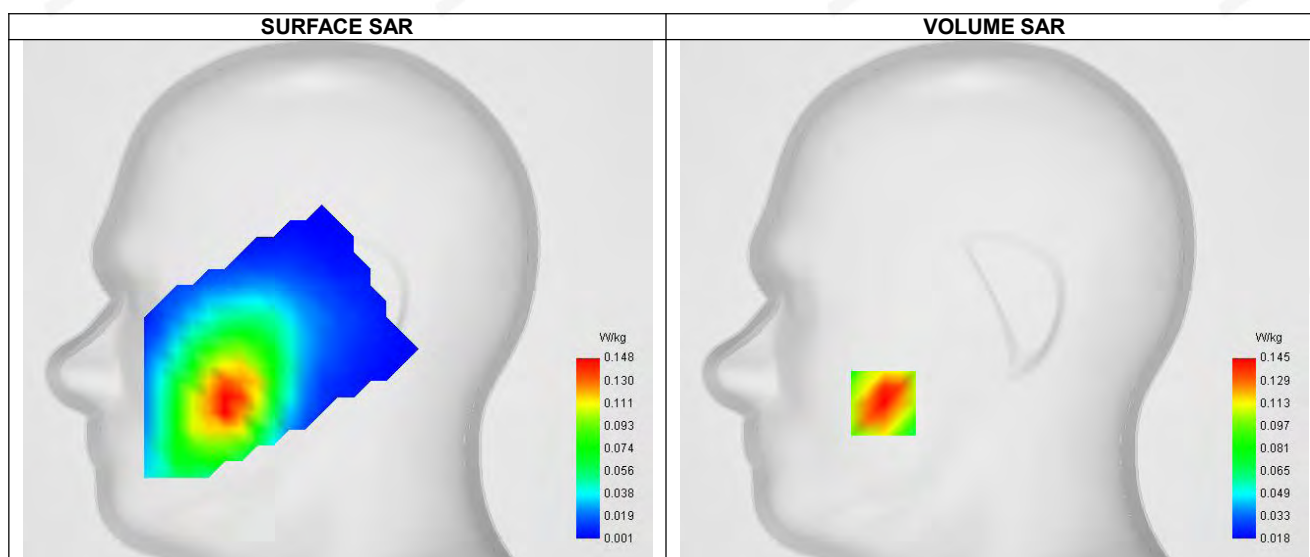
F. 3D Image



Appendix B. SAR Test Plots

Plot 1: DUT: Smart Phone; EUT Model: HPPL61B

Test Date	2026-03-24
ConvF	1.49
Probe	SN 08/21 EPG0352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm
Phantom	Right Cheek
Device Position	Cheek
Band	GPRS 850
Signal	Duty Cycle: 2.00 (Crest factor: 2.0)
Frequency (MHz)	848.8
Relative permittivity (real part)	41.10
Conductivity (S/m)	0.90



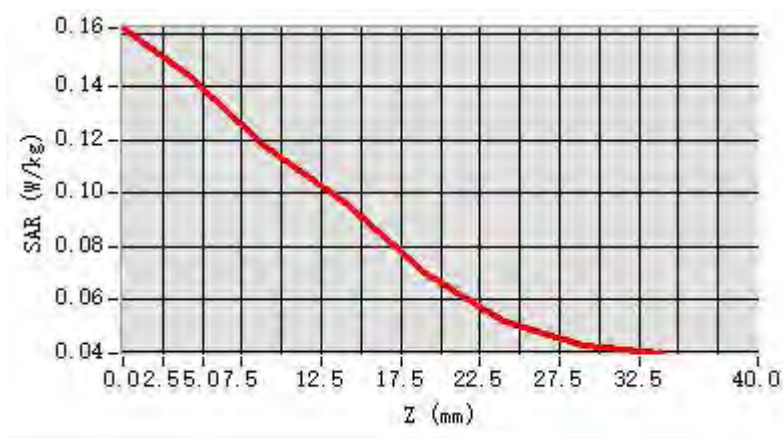
Maximum location: X=-55.00, Y=-51.00 ; SAR Peak: 0.17 W/kg

D. SAR 1g & 10g

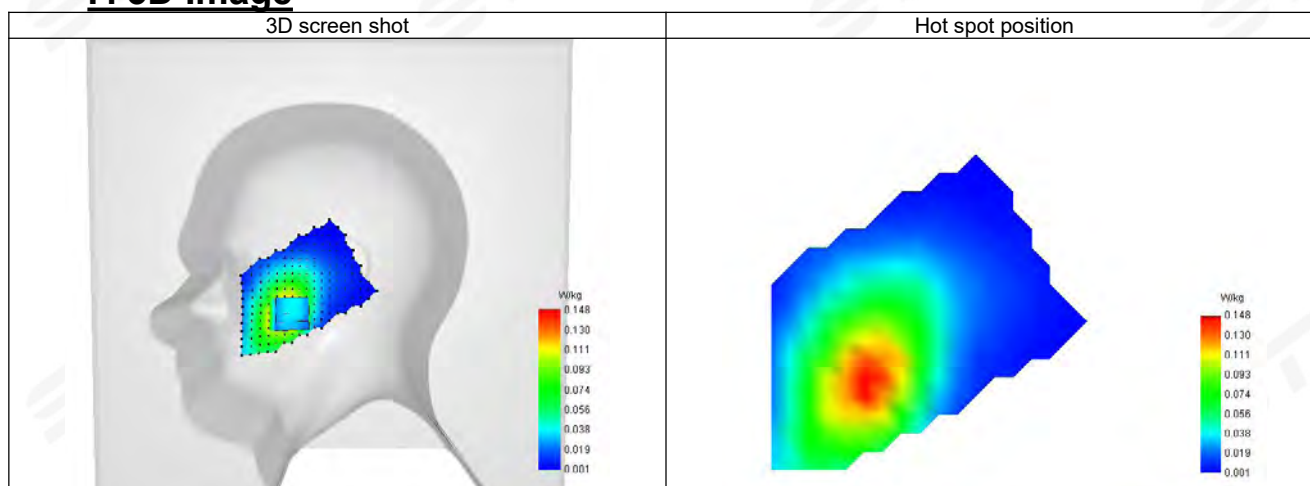
SAR 10g (W/Kg)	0.138
SAR 1g (W/Kg)	0.155
Horizontal validation criteria: minimum distance (mm)	22.627417
Vertical validation criteria: SAR ratio M2/M1 (%)	81.397709

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.162	0.145	0.118	0.096	0.070	0.052	0.042

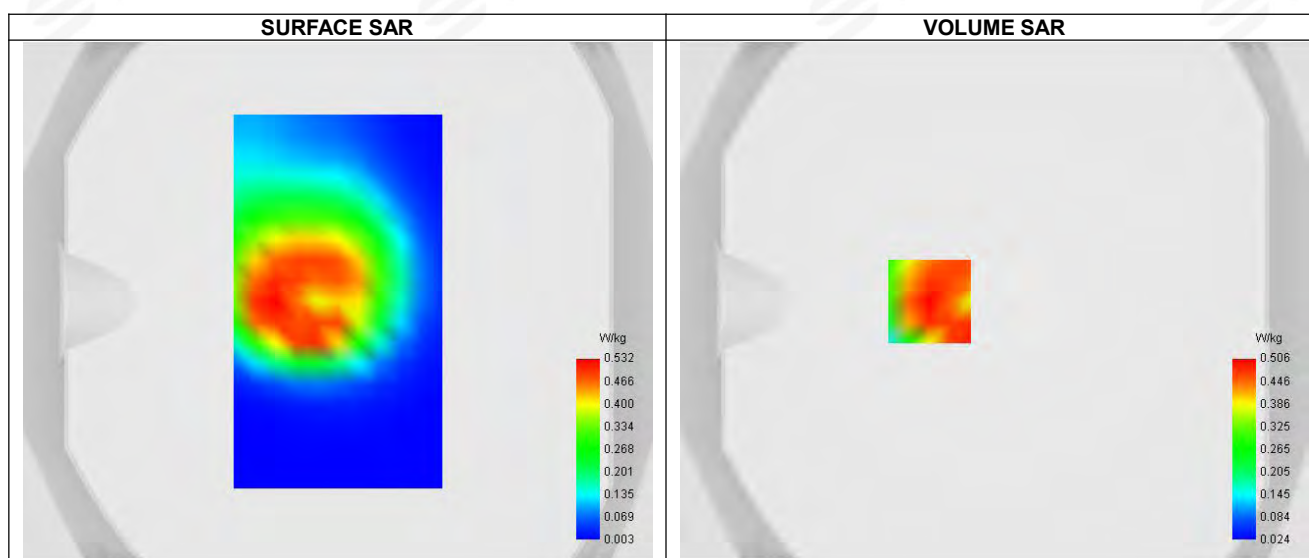


F. 3D Image



**Plot 2: DUT: Smart Phone; EUT Model: HPPL61B**

Test Date	2026-03-24
ConvF	1.49
Probe	SN 08/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	GPRS 850
Signal	Duty Cycle: 2.00 (Crest factor: 2.0)
Frequency (MHz)	848.8
Relative permittivity (real part)	41.10
Conductivity (S/m)	0.90



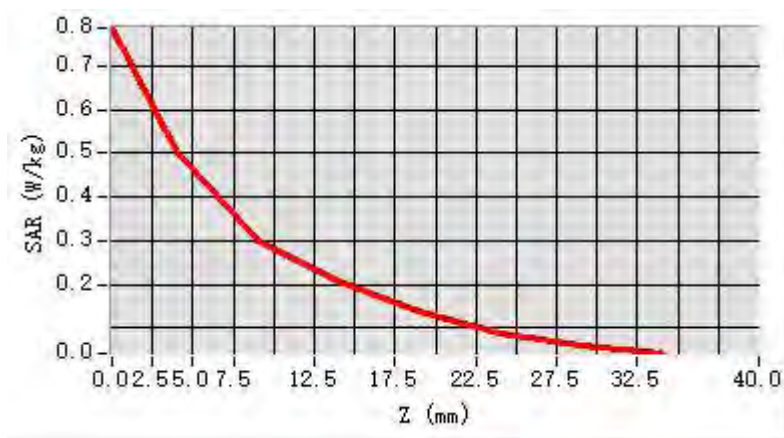
Maximum location: X=-25.00, Y=0.00 ; SAR Peak: 0.79 W/kg

D. SAR 1g & 10g

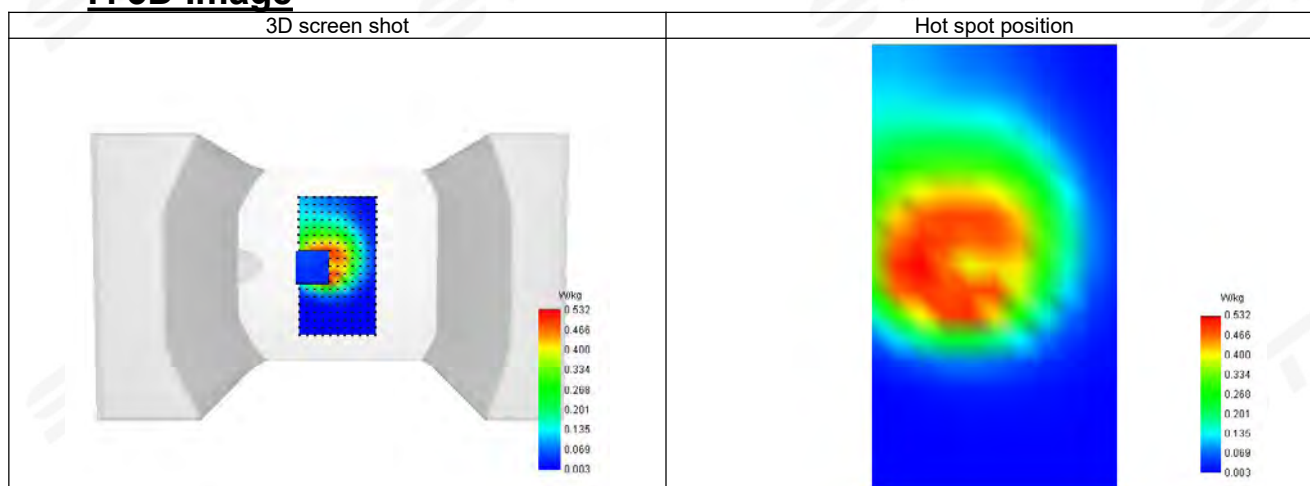
SAR 10g (W/Kg)	0.273
SAR 1g (W/Kg)	0.498
Horizontal validation criteria: minimum distance (mm)	17.888544
Vertical validation criteria: SAR ratio M2/M1 (%)	64.556201

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.787	0.506	0.298	0.210	0.137	0.090	0.059

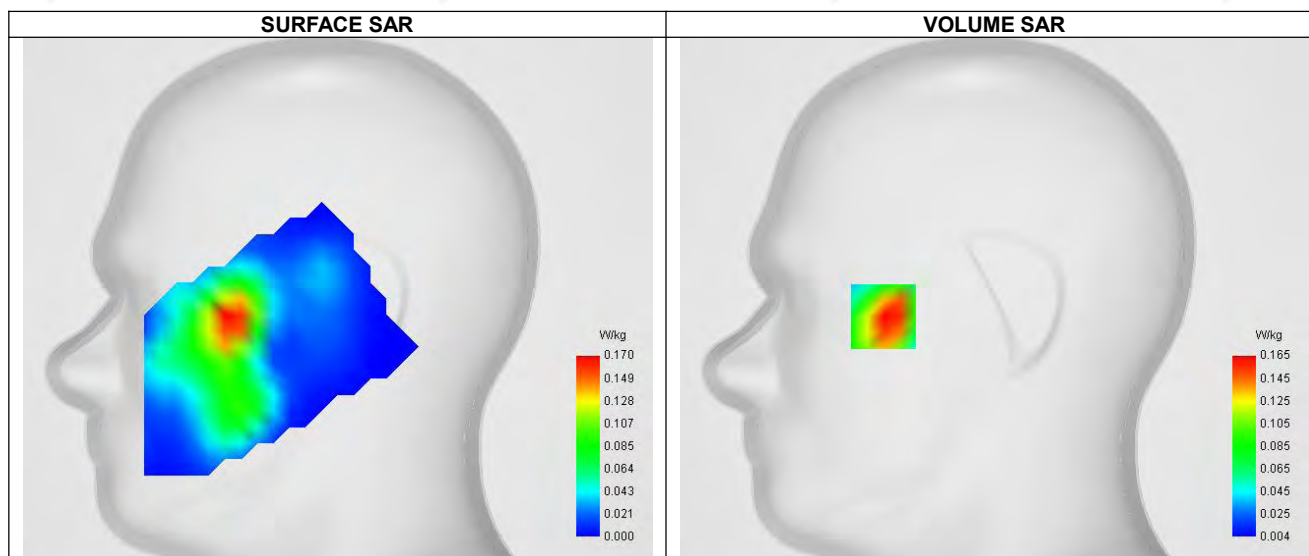


F. 3D Image



Plot 3: DUT: Smart Phone; EUT Model: HPPL61B

Test Date	2026-03-26
ConvF	1.54
Probe	SN 08/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm
Phantom	Right head
Device Position	Cheek
Band	GPRS 1900
Signal	Duty Cycle: 2.00 (Crest factor: 2.0)
Frequency (MHz)	1880
Relative permittivity (real part)	40.83
Conductivity (S/m)	1.42



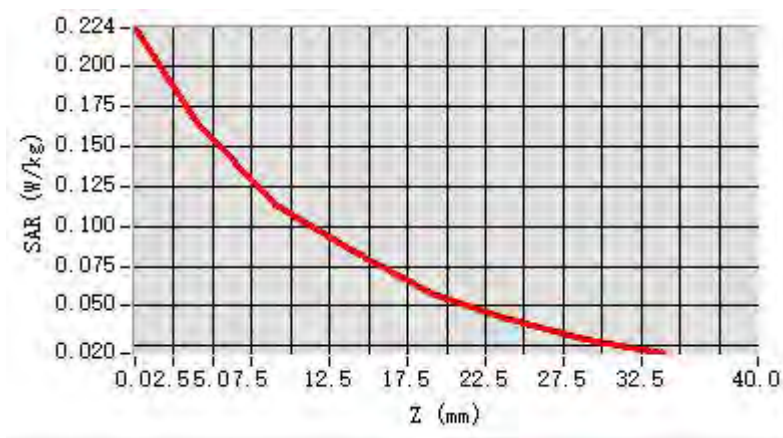
Maximum location: X=-55.00, Y=-9.00 ; SAR Peak: 0.23 W/kg

D. SAR 1g & 10g

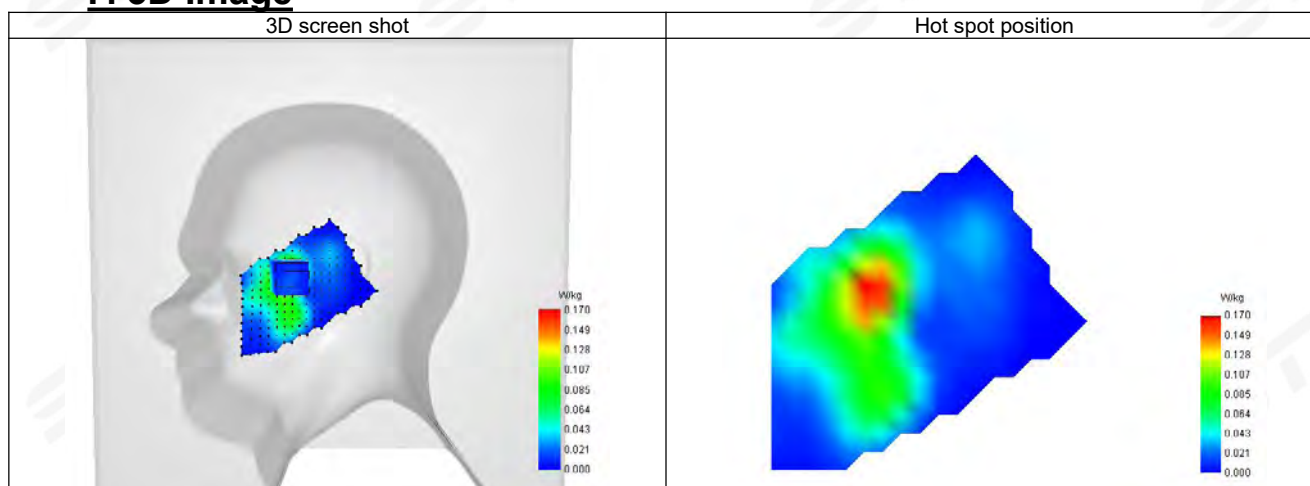
SAR 10g (W/Kg)	0.096
SAR 1g (W/Kg)	0.160
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	70.063473

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.224	0.165	0.113	0.085	0.058	0.041	0.029

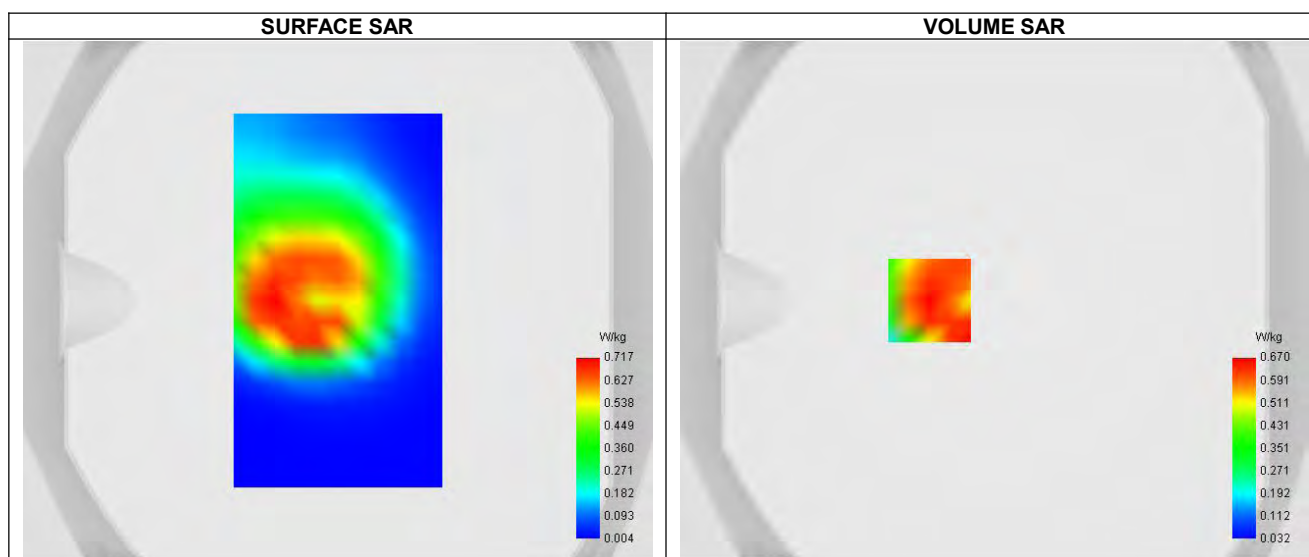


F. 3D Image



Plot 4: DUT: Smart Phone; EUT Model: HPPL61B

Test Date	2026-03-26
ConvF	1.54
Probe	SN 08/21 EPG0352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	GPRS 1900
Signal	Duty Cycle: 2.00 (Crest factor: 2.0)
Frequency (MHz)	1880
Relative permittivity (real part)	40.83
Conductivity (S/m)	1.42



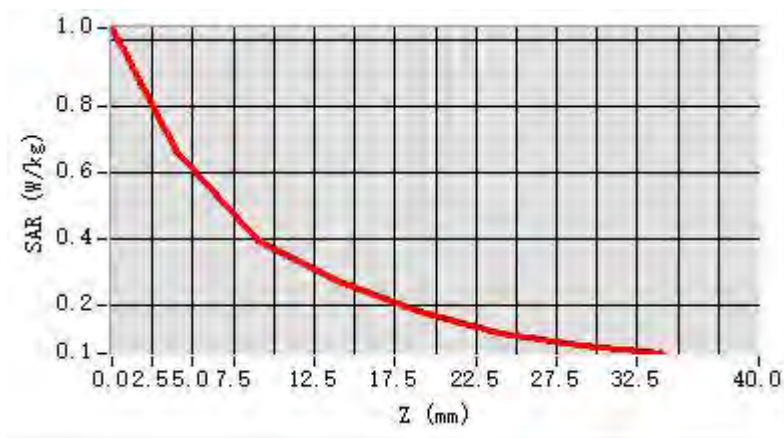
Maximum location: X=-25.00, Y=0.00 ; SAR Peak: 1.05 W/kg

D. SAR 1g & 10g

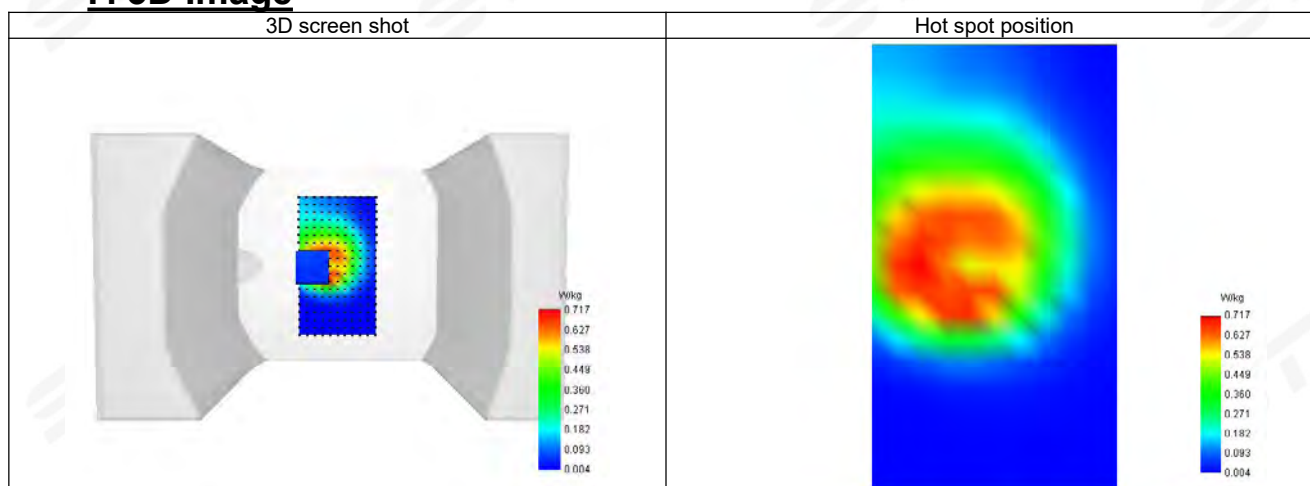
SAR 10g (W/Kg)	0.366
SAR 1g (W/Kg)	0.661
Horizontal validation criteria: minimum distance (mm)	17.888544
Vertical validation criteria: SAR ratio M2/M1 (%)	64.613557

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.039	0.670	0.395	0.275	0.179	0.117	0.076

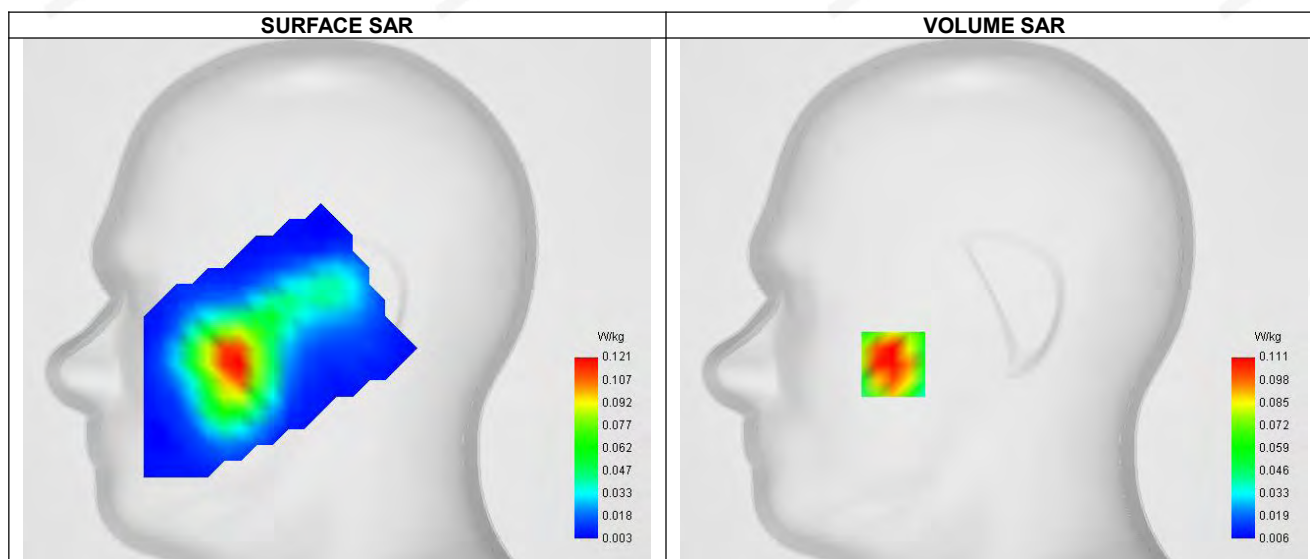


F. 3D Image



Plot 5: DUT: Smart Phone; EUT Model: HPPL61B

Test Date	2026-03-26
ConvF	1.73
Probe	SN 08/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm
Phantom	Right head
Device Position	Cheek
Band	WCDMA II
Signal	WCDMA (Crest factor: 1.0)
Frequency (MHz)	1852.4
Relative permittivity (real part)	41.11
Conductivity (S/m)	1.38



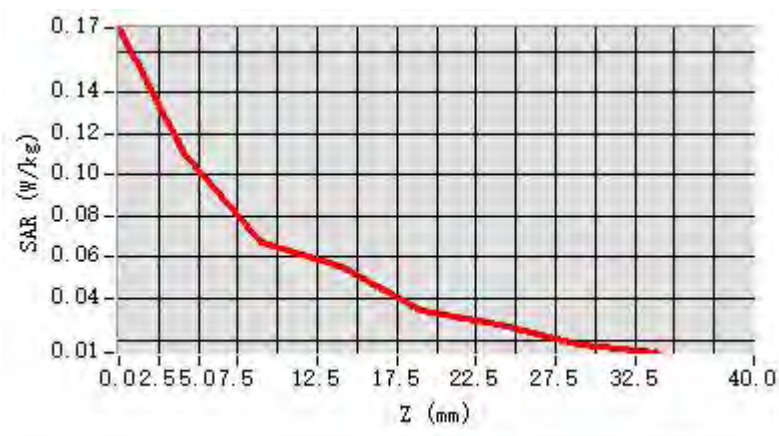
Maximum location: X=-50.00, Y=-32.00 ; SAR Peak: 0.15 W/kg

D. SAR 1g & 10g

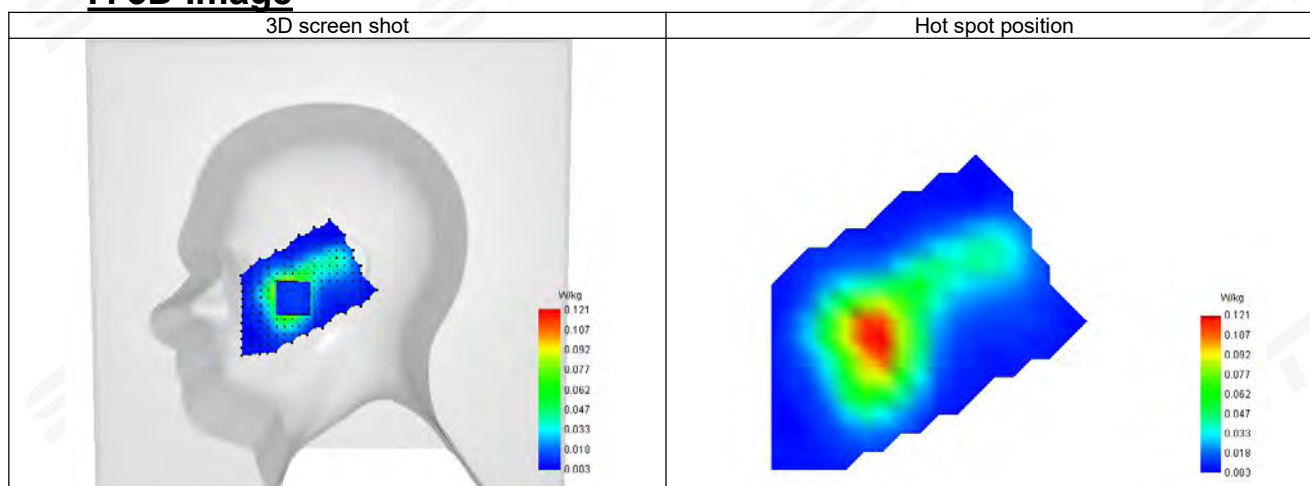
SAR 10g (W/Kg)	0.068
SAR 1g (W/Kg)	0.107
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	71.454182

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.171	0.111	0.067	0.055	0.035	0.027	0.017

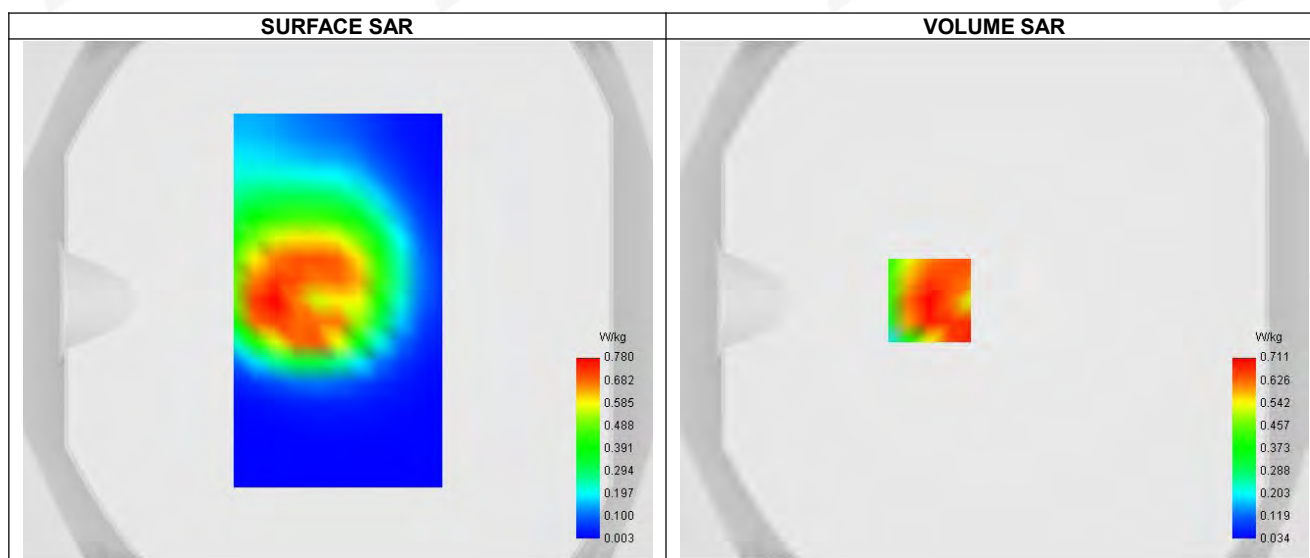


F. 3D Image



Plot 6: DUT: Smart Phone; EUT Model: HPPL61B

Test Date	2026-03-26
ConvF	1.73
Probe	SN 08/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	WCDMA II
Signal	WCDMA (Crest factor: 1.0)
Frequency (MHz)	1852.4
Relative permittivity (real part)	41.11
Conductivity (S/m)	1.38



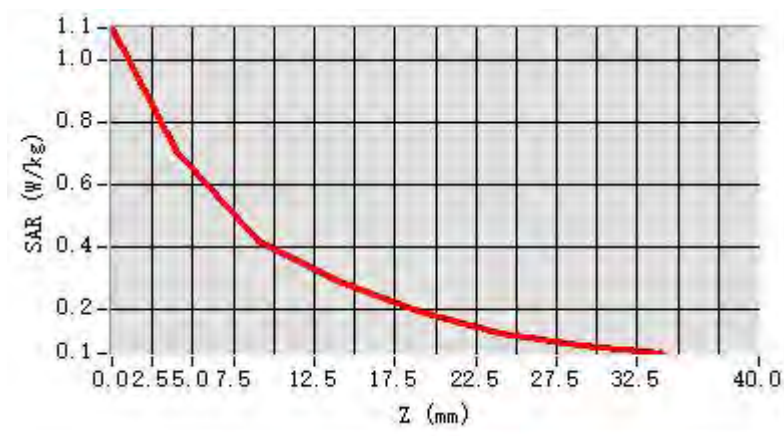
Maximum location: X=-25.00, Y=0.00 ; SAR Peak: 1.14 W/kg

D. SAR 1g & 10g

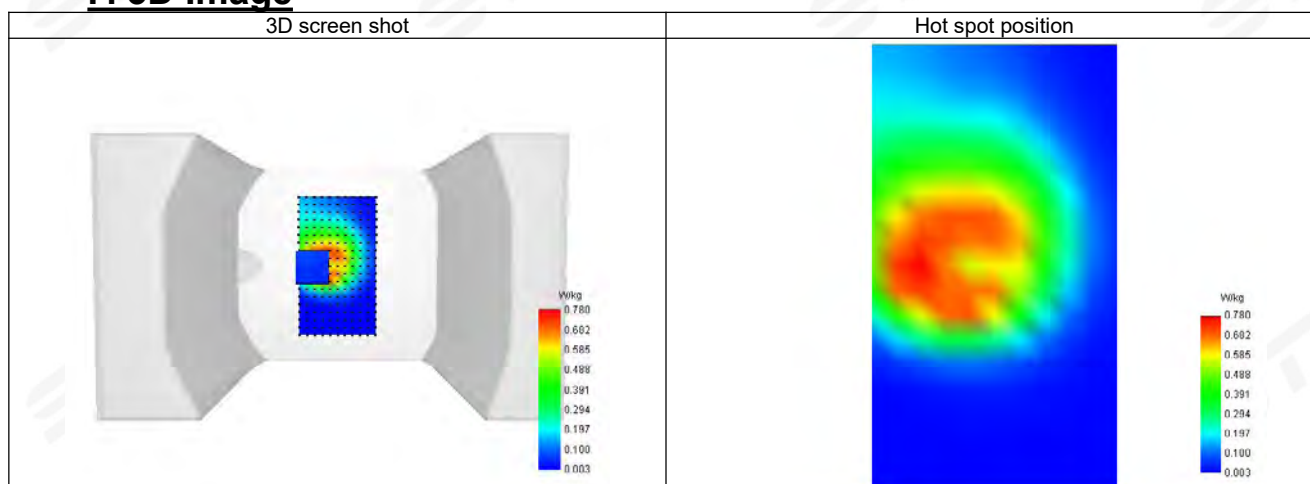
SAR 10g (W/Kg)	0.385
SAR 1g (W/Kg)	0.705
Horizontal validation criteria: minimum distance (mm)	17.888544
Vertical validation criteria: SAR ratio M2/M1 (%)	63.813752

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.103	0.711	0.419	0.292	0.191	0.124	0.081

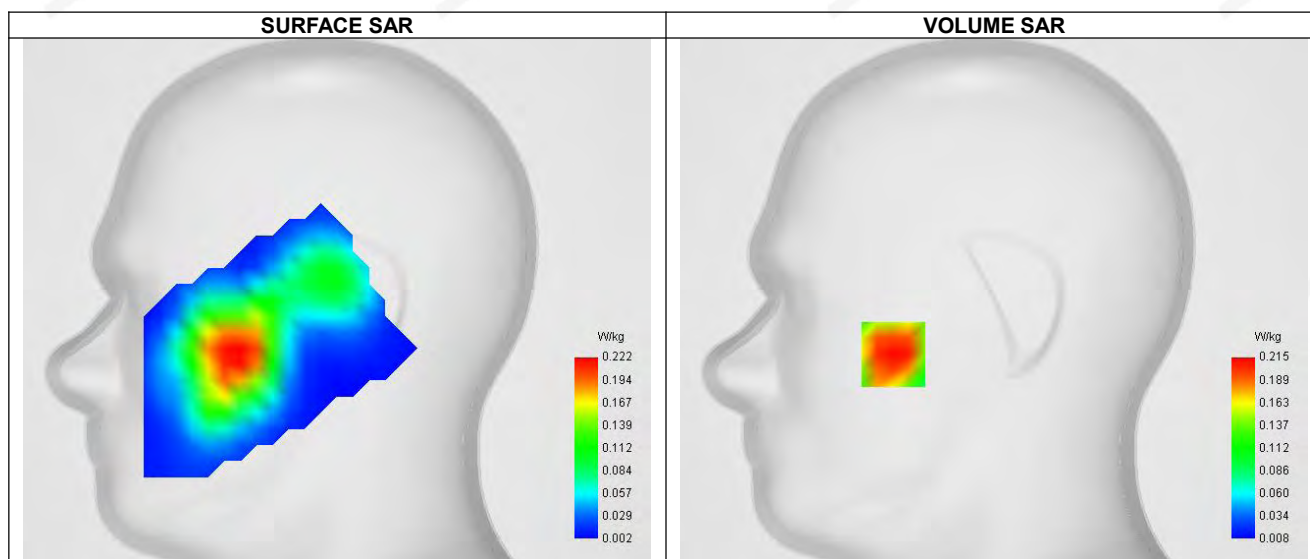


F. 3D Image



Plot 7: DUT: Smart Phone; EUT Model: HPPL61B

Test Date	2026-03-25
ConvF	1.54
Probe	SN 08/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm
Phantom	Right head
Device Position	Cheek
Band	WCDMA IV
Signal	WCDMA (Crest factor: 1.0)
Frequency (MHz)	1752.4
Relative permittivity (real part)	40.29
Conductivity (S/m)	1.36



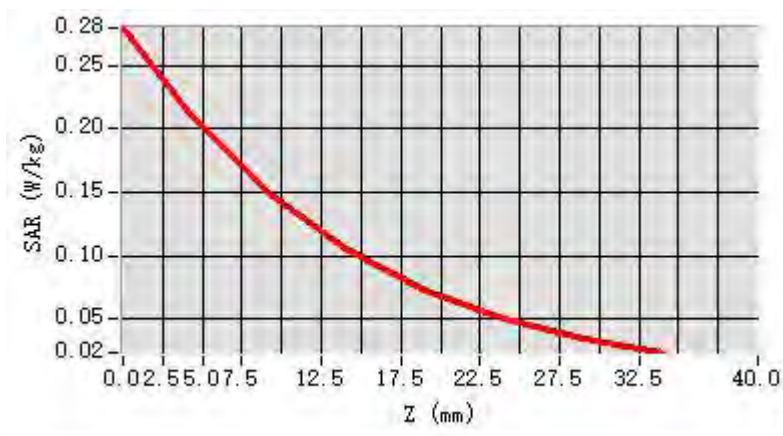
Maximum location: X=-50.00, Y=-27.00 ; SAR Peak: 0.29 W/kg

D. SAR 1g & 10g

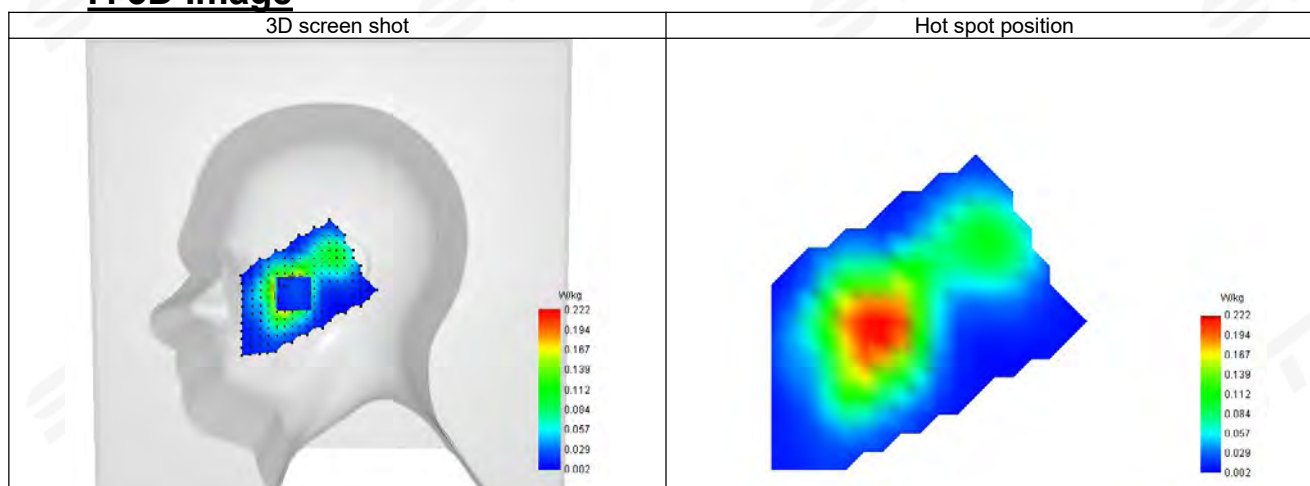
SAR 10g (W/Kg)	0.132
SAR 1g (W/Kg)	0.206
Horizontal validation criteria: minimum distance (mm)	22.627417
Vertical validation criteria: SAR ratio M2/M1 (%)	70.521083

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.280	0.215	0.152	0.107	0.073	0.050	0.035

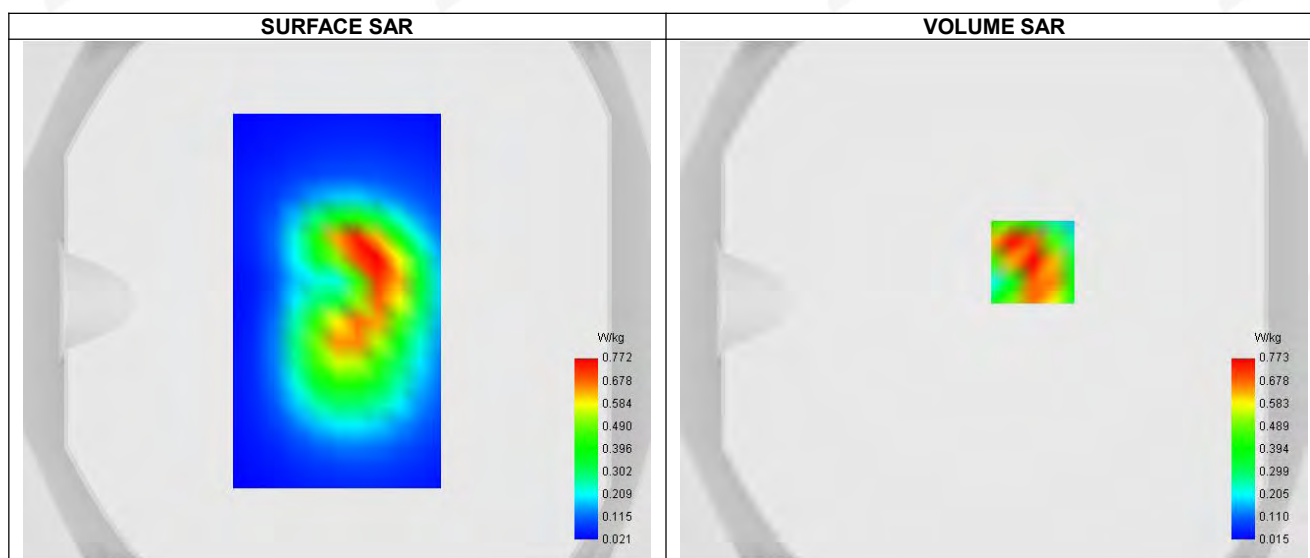


F. 3D Image



Plot 8: DUT: Smart Phone; EUT Model: HPPL61B

Test Date	2026-03-25
ConvF	1.54
Probe	SN 08/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	WCDMA IV
Signal	WCDMA (Crest factor: 1.0)
Frequency (MHz)	1752.4
Relative permittivity (real part)	40.29
Conductivity (S/m)	1.36



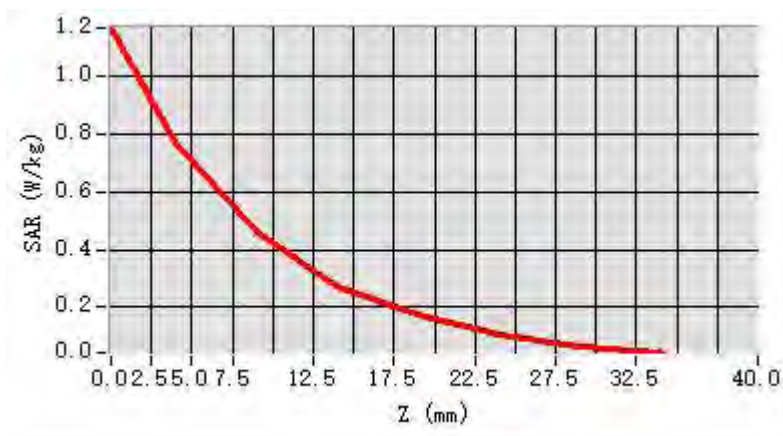
Maximum location: X=15.00, Y=15.00 ; SAR Peak: 1.22 W/kg

D. SAR 1g & 10g

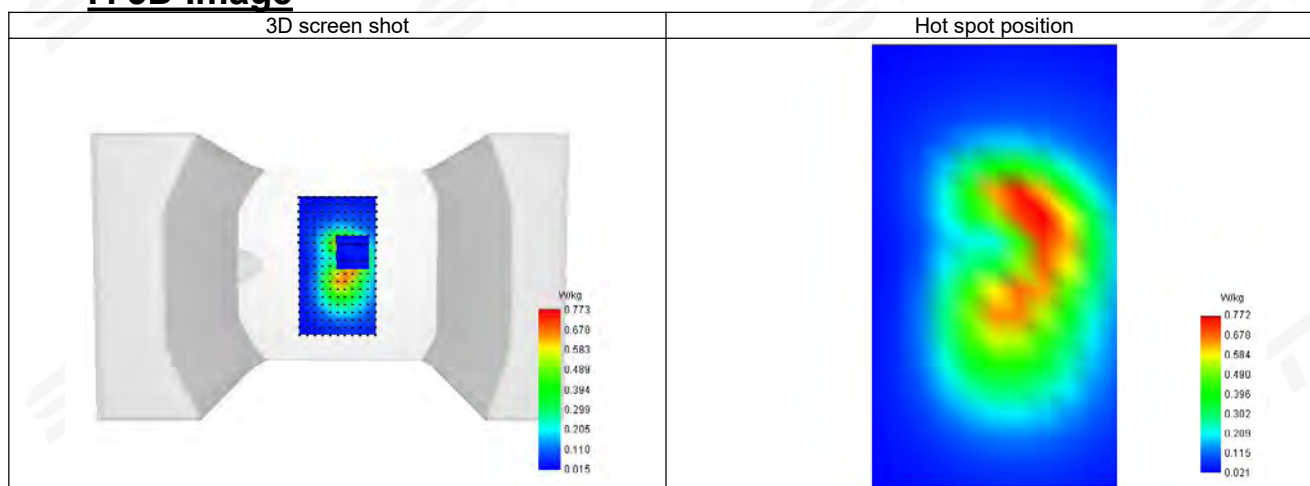
SAR 10g (W/Kg)	0.390
SAR 1g (W/Kg)	0.737
Horizontal validation criteria: minimum distance (mm)	11.313708
Vertical validation criteria: SAR ratio M2/M1 (%)	59.135997

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.170	0.773	0.457	0.274	0.170	0.103	0.063

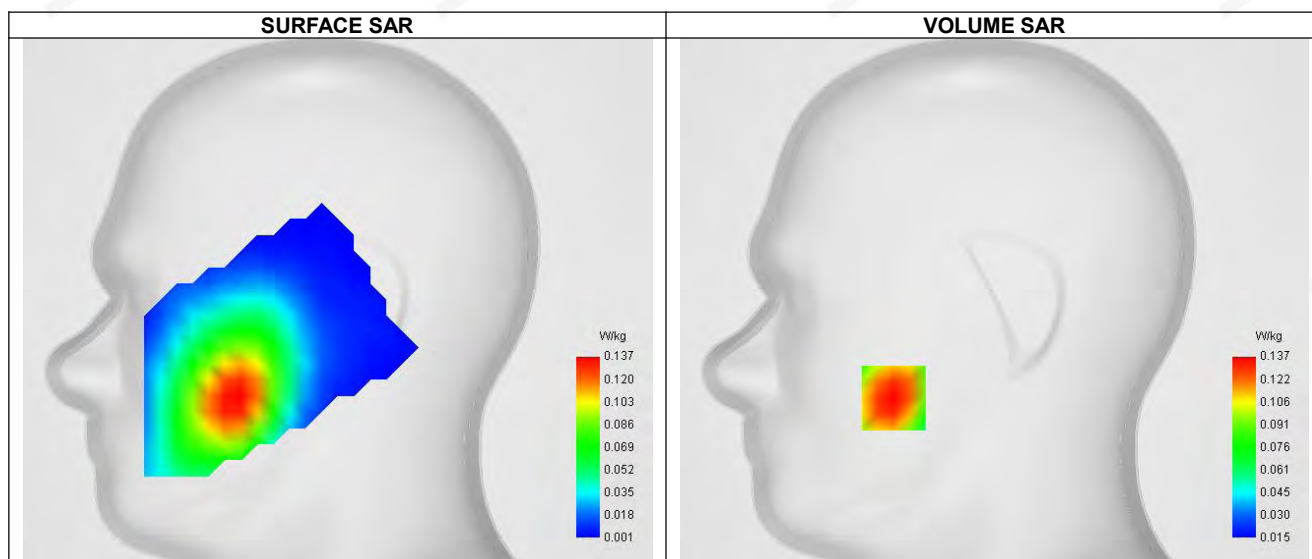


F. 3D Image



Plot 9: DUT: Smart Phone; EUT Model: HPPL61B

Test Date	2026-03-24
ConvF	1.49
Probe	SN 08/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm
Phantom	Right Cheek
Device Position	Cheek
Band	WCDMA V
Signal	WCDMA (Crest factor: 1.0)
Frequency (MHz)	846.6
Relative permittivity (real part)	41.79
Conductivity (S/m)	0.89



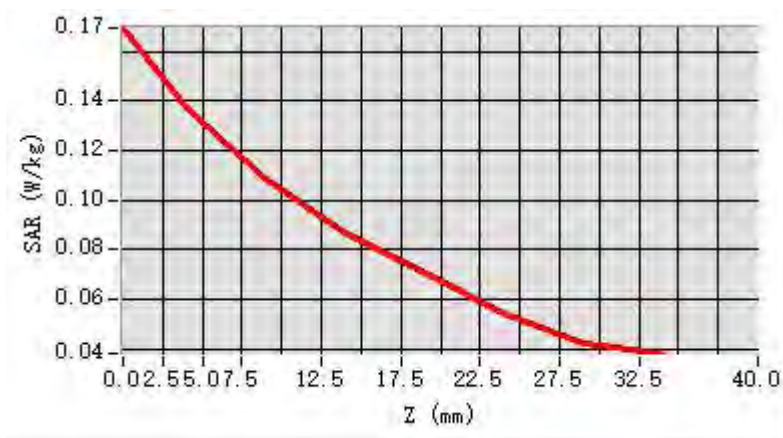
Maximum location: X=-50.00, Y=-49.00 ; SAR Peak: 0.17 W/kg

D. SAR 1g & 10g

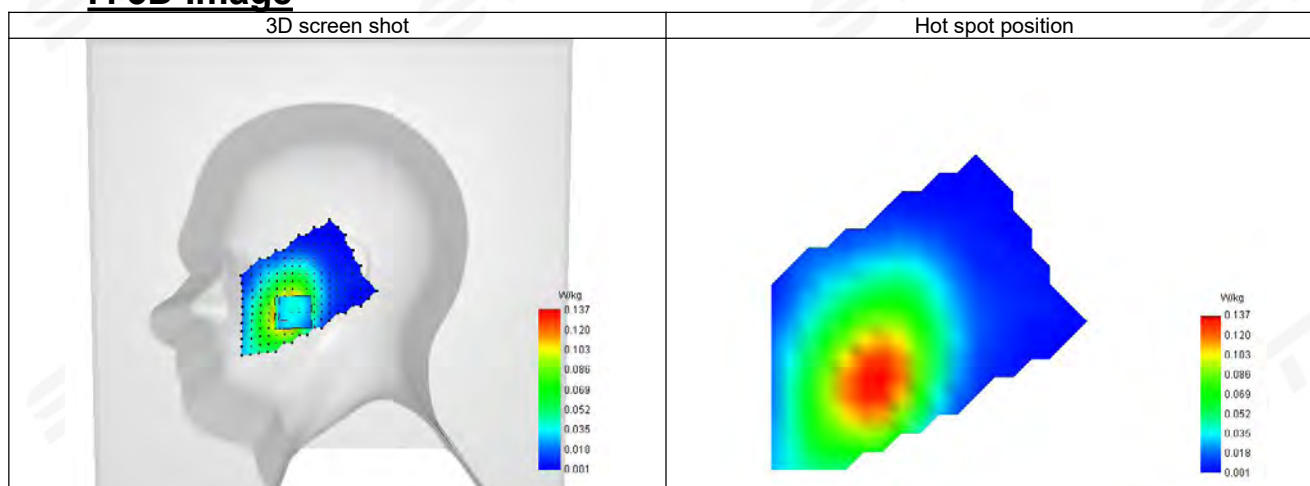
SAR 10g (W/Kg)	0.098
SAR 1g (W/Kg)	0.134
Horizontal validation criteria: minimum distance (mm)	22.627417
Vertical validation criteria: SAR ratio M2/M1 (%)	79.372477

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.169	0.137	0.109	0.087	0.070	0.054	0.043



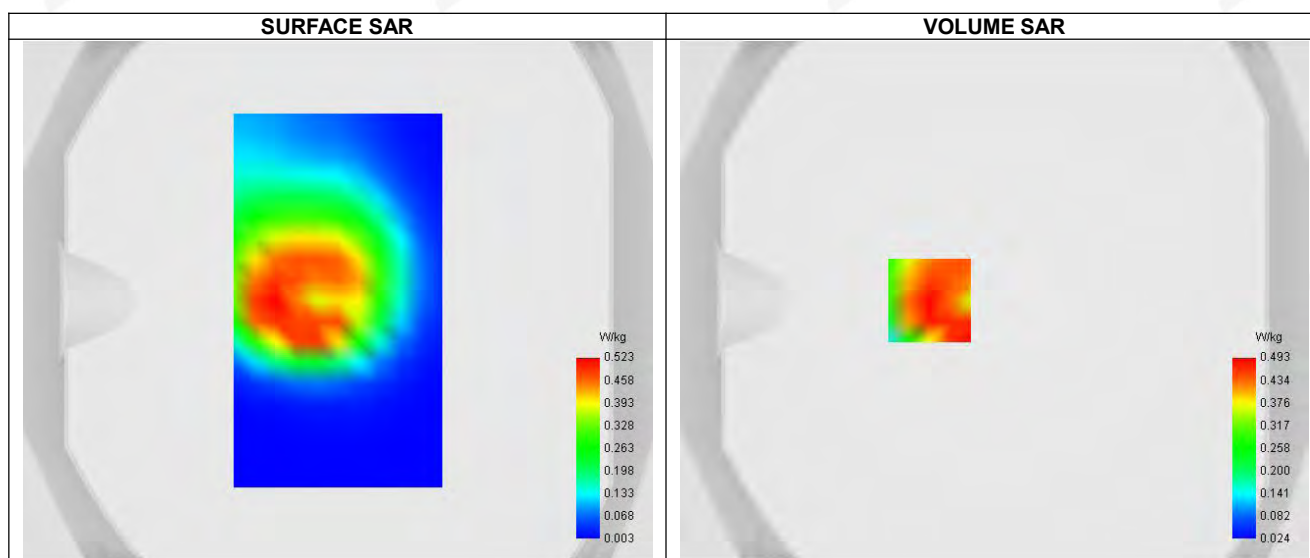
F. 3D Image





Plot 10: DUT: Smart Phone; EUT Model: HPPL61B

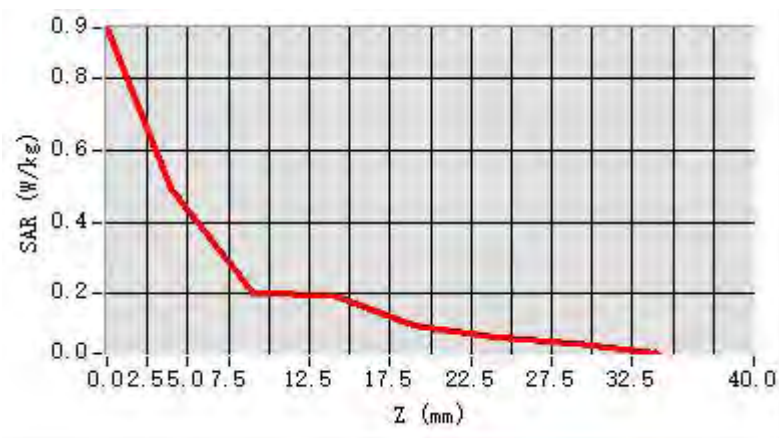
Test Date	2026-03-25
ConvF	1.54
Probe	SN 08/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	WCDMA V
Signal	WCDMA (Crest factor: 1.0)
Frequency (MHz)	846.6
Relative permittivity (real part)	41.79
Conductivity (S/m)	0.89

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

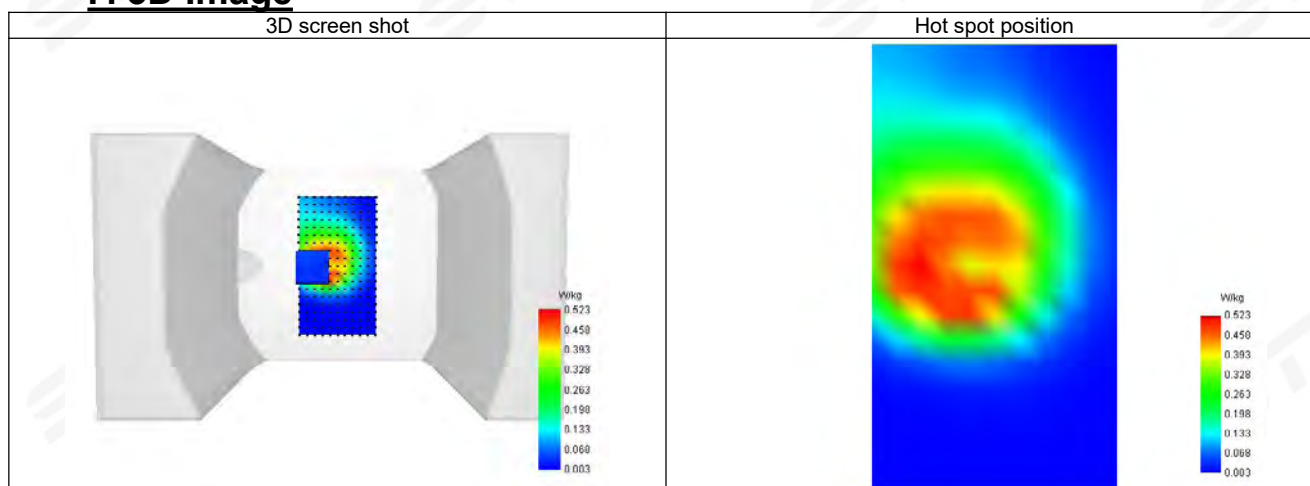
SAR 10g (W/Kg)	0.269
SAR 1g (W/Kg)	0.488
Horizontal validation criteria: minimum distance (mm)	32.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	63.815089

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.940	0.493	0.204	0.193	0.114	0.078	0.064

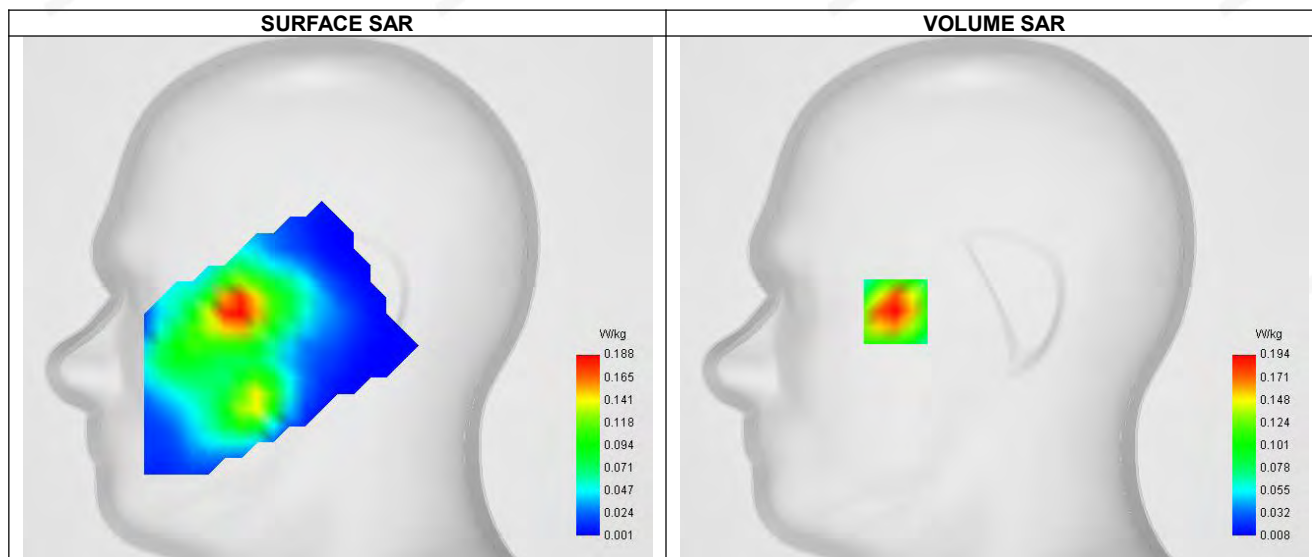


F. 3D Image



Plot 11: DUT: Smart Phone; EUT Model: HPPL61B

Test Date	2026-03-26
ConvF	1.73
Probe	SN 08/21 EPG0352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm
Phantom	Right head
Device Position	Cheek
Band	LTE Band 2 (RB 1)
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	1860
Relative permittivity (real part)	39.91
Conductivity (S/m)	1.40



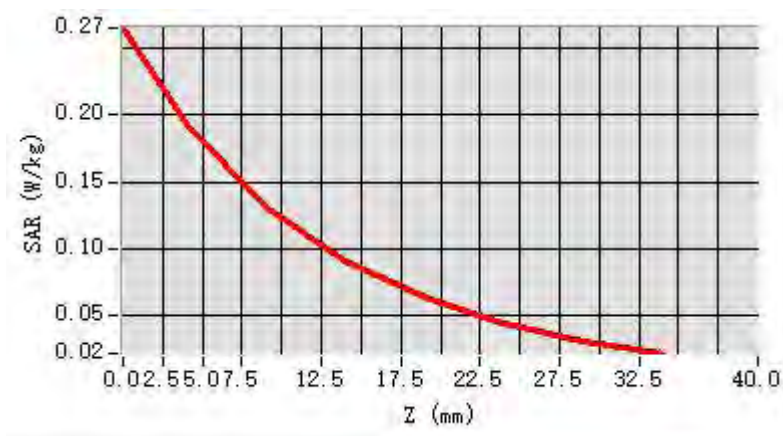
Maximum location: X=-49.00, Y=-7.00 ; SAR Peak: 0.27 W/kg

D. SAR 1g & 10g

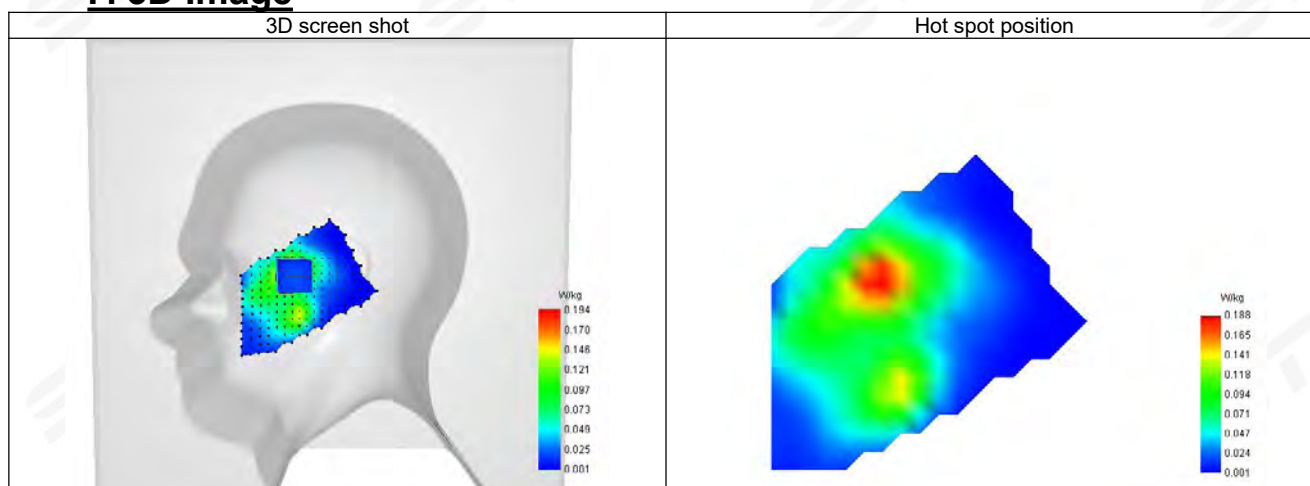
SAR 10g (W/Kg)	0.111
SAR 1g (W/Kg)	0.184
Horizontal validation criteria: minimum distance (mm)	17.888544
Vertical validation criteria: SAR ratio M2/M1 (%)	68.241555

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.265	0.194	0.132	0.091	0.064	0.044	0.031

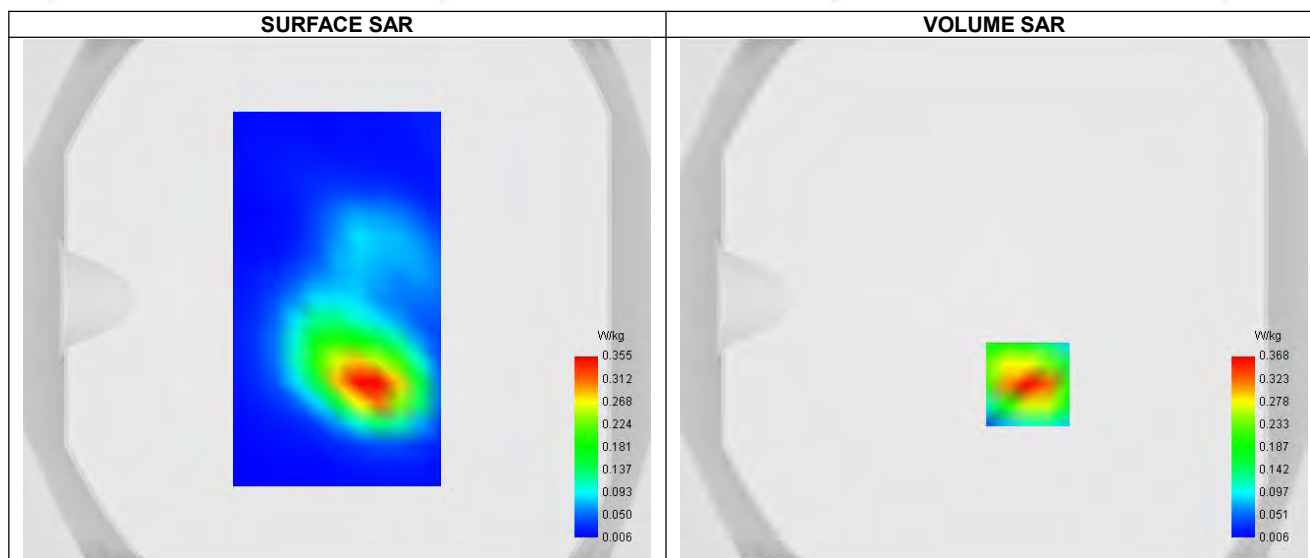


F. 3D Image



**Plot 12: DUT: Smart Phone; EUT Model: HPPL61B**

Test Date	2026-03-26
ConvF	1.73
Probe	SN 08/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	LTE Band 2(RB 1)
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	1860
Relative permittivity (real part)	39.91
Conductivity (S/m)	1.40



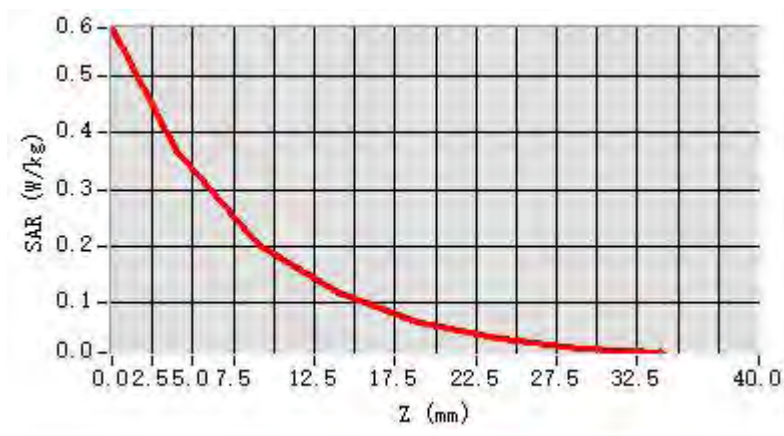
Maximum location: X=13.00, Y=-33.00 ; SAR Peak: 0.58 W/kg

D. SAR 1g & 10g

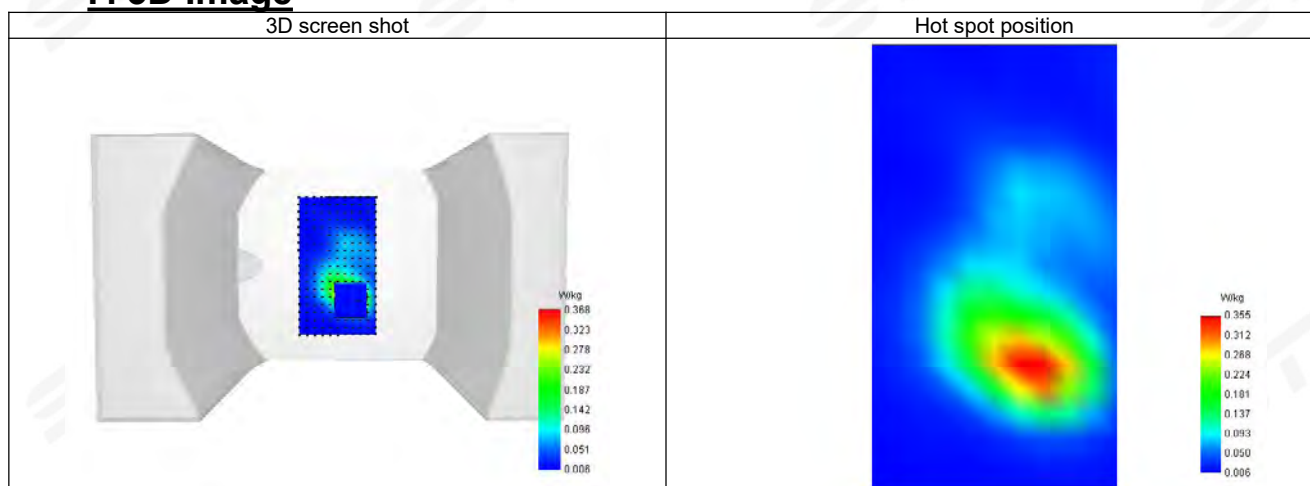
SAR 10g (W/Kg)	0.174
SAR 1g (W/Kg)	0.343
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	55.052538

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.584	0.368	0.203	0.119	0.068	0.039	0.022

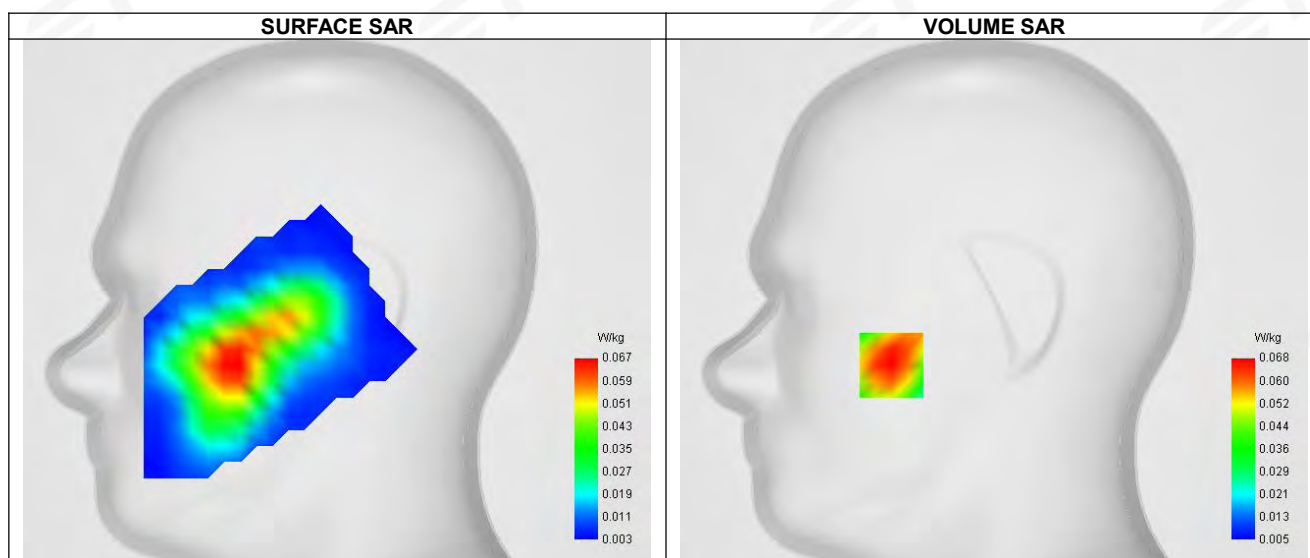


F. 3D Image



Plot 13: DUT: Smart Phone; EUT Model: HPPL61B

Test Date	2026-03-25
ConvF	1.54
Probe	SN 08/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm
Phantom	Right head
Band	LTE Band 4 (RB 1)
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	1720
Relative permittivity (real part)	40.51
Conductivity (S/m)	1.35



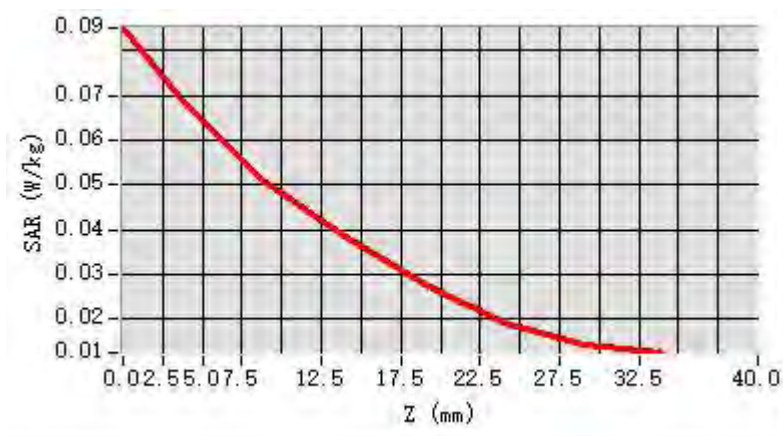
Maximum location: X=-51.00, Y=-32.00 ; SAR Peak: 0.09 W/kg

D. SAR 1g & 10g

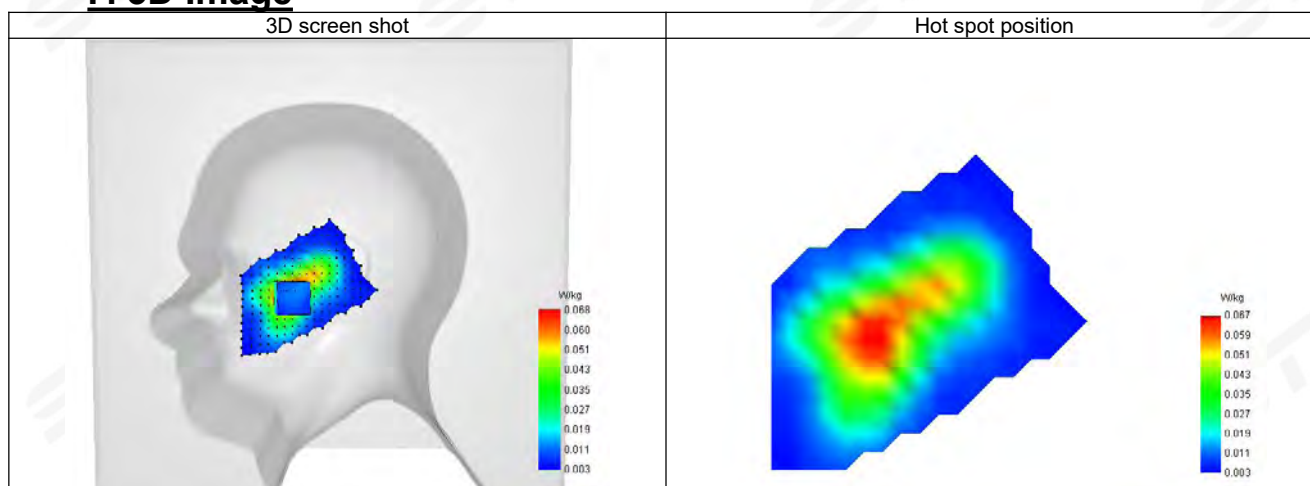
SAR 10g (W/Kg)	0.045
SAR 1g (W/Kg)	0.066
Horizontal validation criteria: minimum distance (mm)	22.627417
Vertical validation criteria: SAR ratio M2/M1 (%)	74.884192

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.085	0.068	0.051	0.039	0.028	0.019	0.014

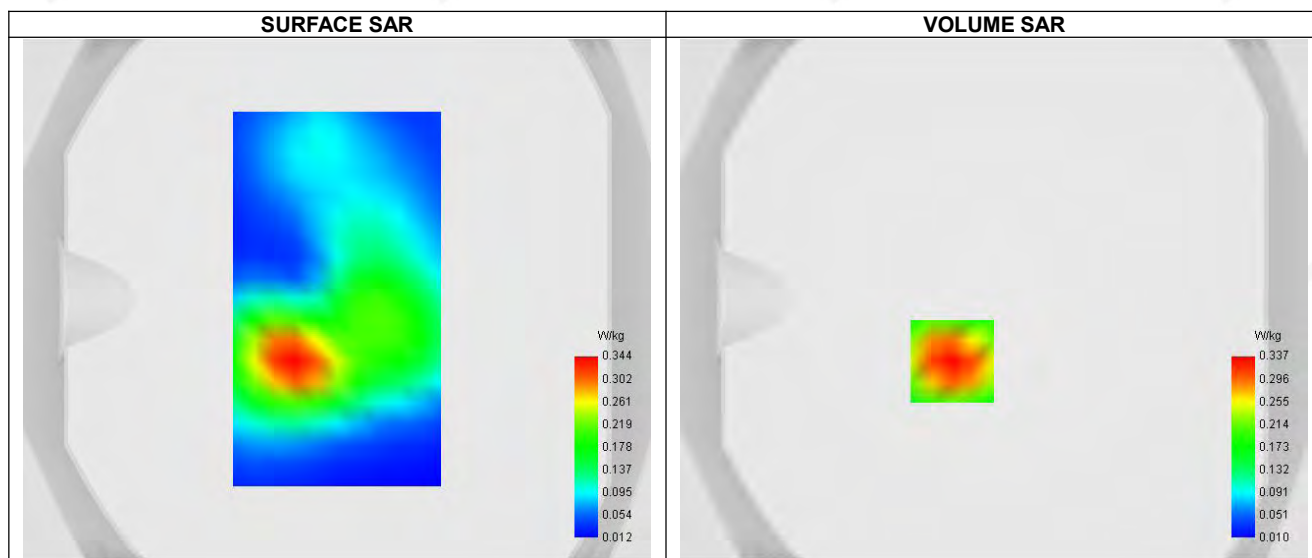


F. 3D Image



Plot 14: DUT: Smart Phone; EUT Model: HPPL61B

Test Date	2026-03-25
ConvF	1.54
Probe	SN 08/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	LTE Band 4 (RB 1)
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	1720
Relative permittivity (real part)	40.51
Conductivity (S/m)	1.35



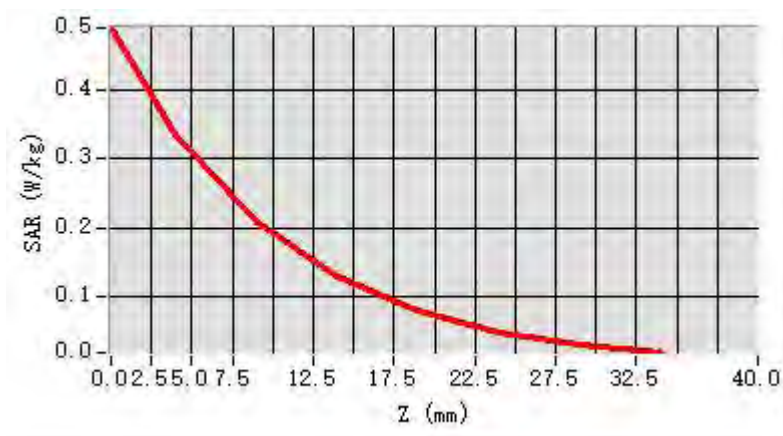
Maximum location: X=-16.00, Y=-24.00 ; SAR Peak: 0.49 W/kg

D. SAR 1g & 10g

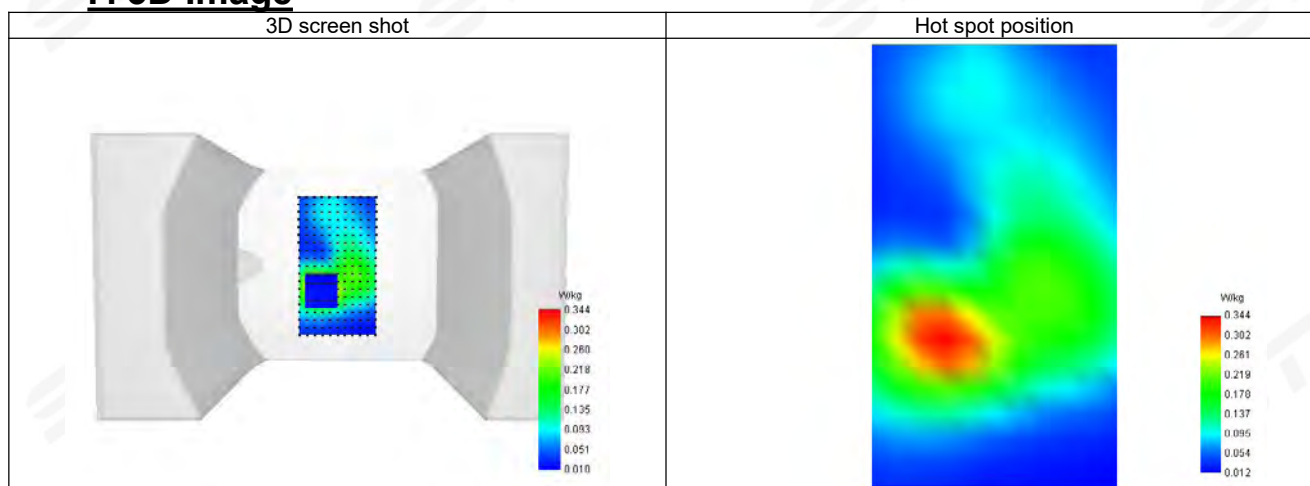
SAR 10g (W/Kg)	0.188
SAR 1g (W/Kg)	0.321
Horizontal validation criteria: minimum distance (mm)	22.627417
Vertical validation criteria: SAR ratio M2/M1 (%)	61.677064

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.490	0.337	0.208	0.130	0.080	0.050	0.031

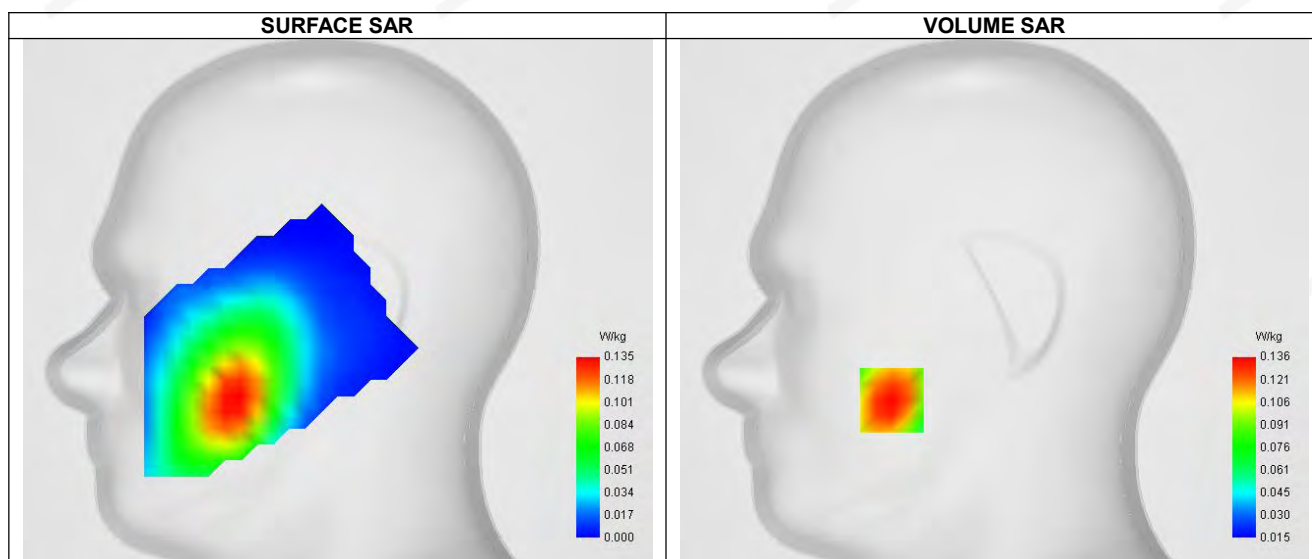


F. 3D Image



Plot 15: DUT: Smart Phone; EUT Model: HPPL61B

Test Date	2026-03-24
ConvF	1.49
Probe	SN 08/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm
Phantom	Right Cheek
Device Position	Cheek
Band	LTE Band 5 (RB 1)
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	844
Relative permittivity (real part)	41.68
Conductivity (S/m)	0.92



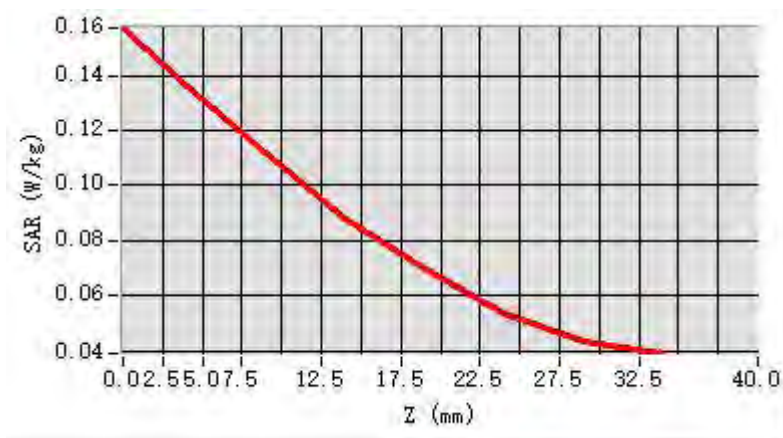
Maximum location: X=-51.00, Y=-50.00 ; SAR Peak: 0.17 W/kg

D. SAR 1g & 10g

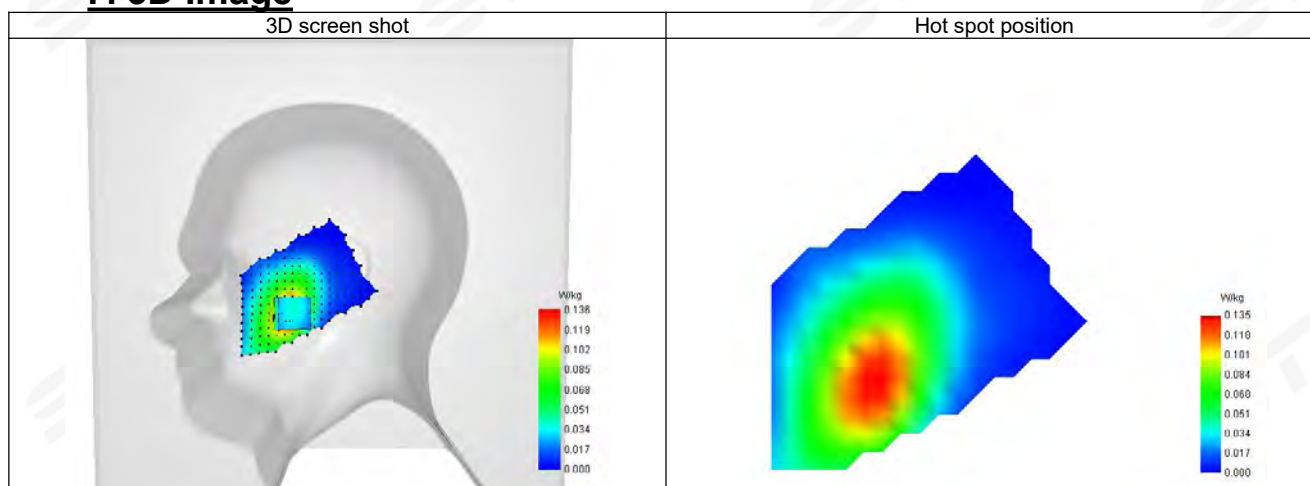
SAR 10g (W/Kg)	0.099
SAR 1g (W/Kg)	0.133
Horizontal validation criteria: minimum distance (mm)	22.627417
Vertical validation criteria: SAR ratio M2/M1 (%)	82.228138

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.157	0.136	0.112	0.088	0.070	0.054	0.043

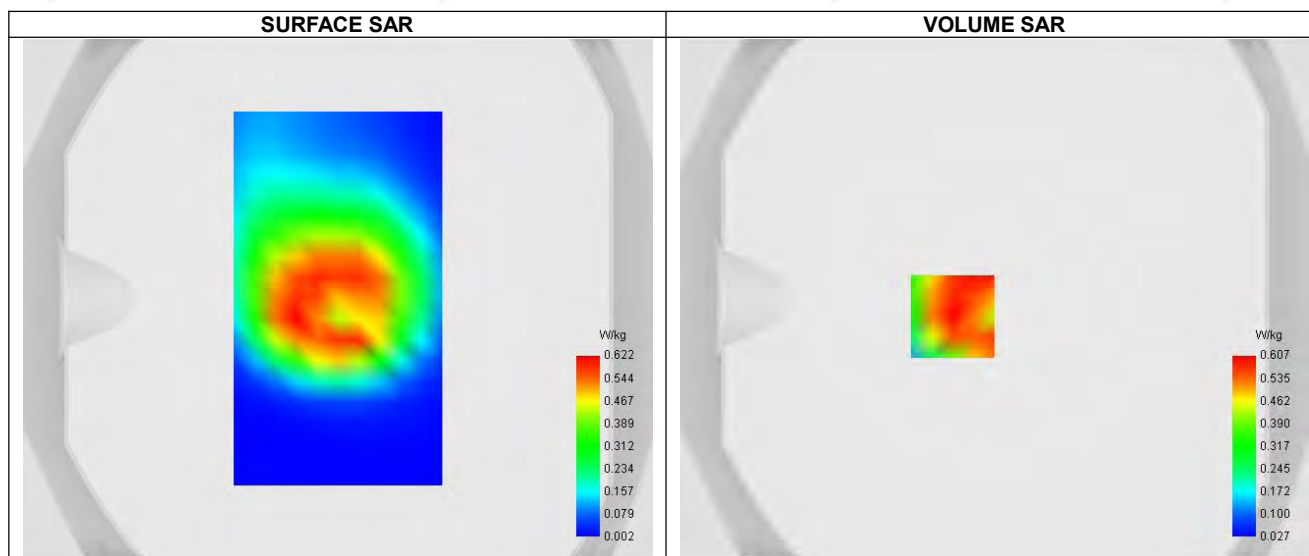


F. 3D Image



**Plot 16: DUT: Smart Phone; EUT Model: HPPL61B**

Test Date	2026-03-24
ConvF	1.49
Probe	SN 08/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	LTE Band 5 (RB 1)
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	844
Relative permittivity (real part)	41.68
Conductivity (S/m)	0.92



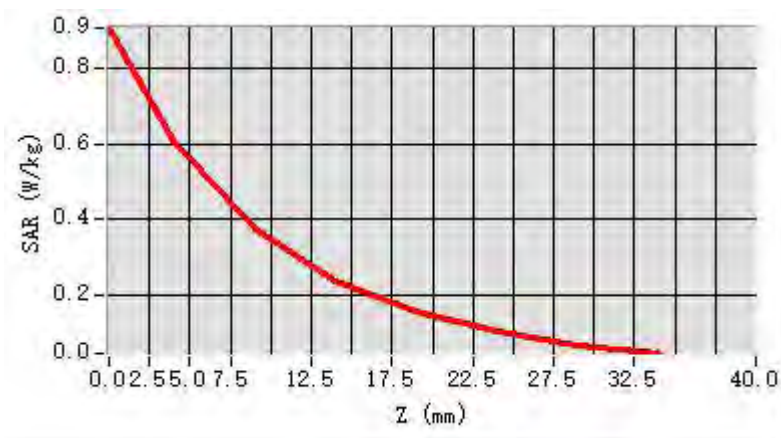
Maximum location: X=-16.00, Y=-7.00 ; SAR Peak: 0.90 W/kg

D. SAR 1g & 10g

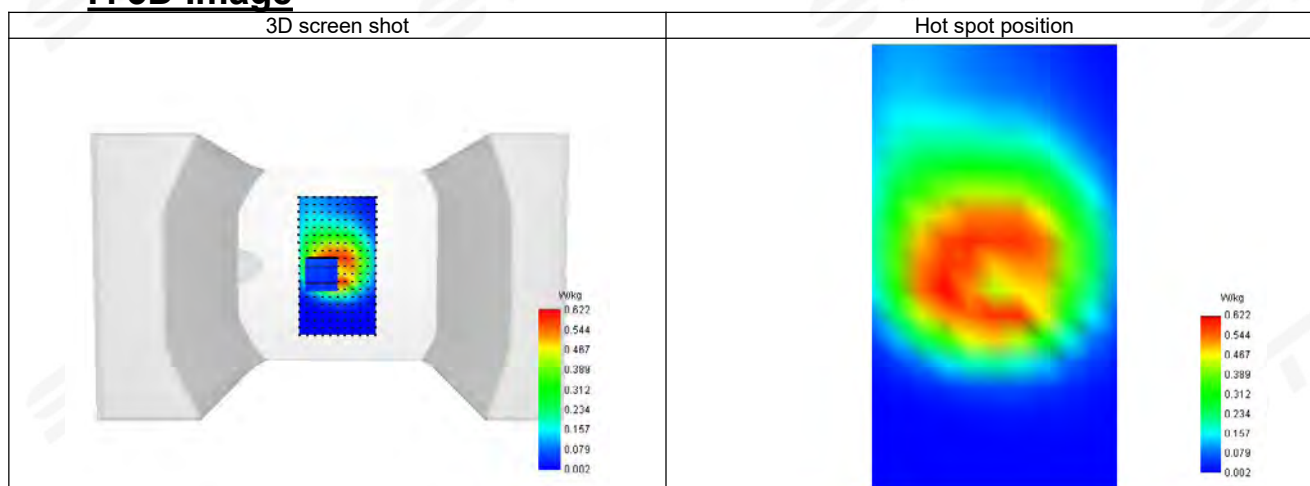
SAR 10g (W/Kg)	0.322
SAR 1g (W/Kg)	0.587
Horizontal validation criteria: minimum distance (mm)	17.888544
Vertical validation criteria: SAR ratio M2/M1 (%)	69.429546

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.904	0.607	0.375	0.237	0.161	0.104	0.067

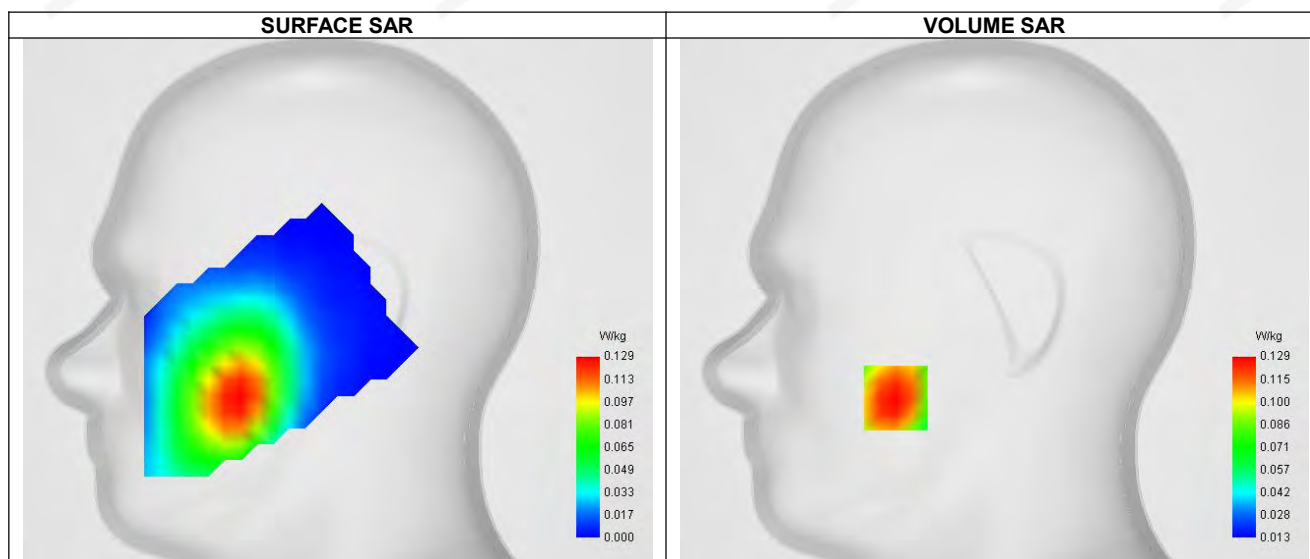


F. 3D Image



Plot 17: DUT: Smart Phone; EUT Model: HPPL61B

Test Date	2026-03-23
ConvF	1.51
Probe	SN 08/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm
Phantom	Right Cheek
Device Position	Cheek
Band	LTE Band 12 (RB 1)
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	704
Relative permittivity (real part)	41.99
Conductivity (S/m)	0.87



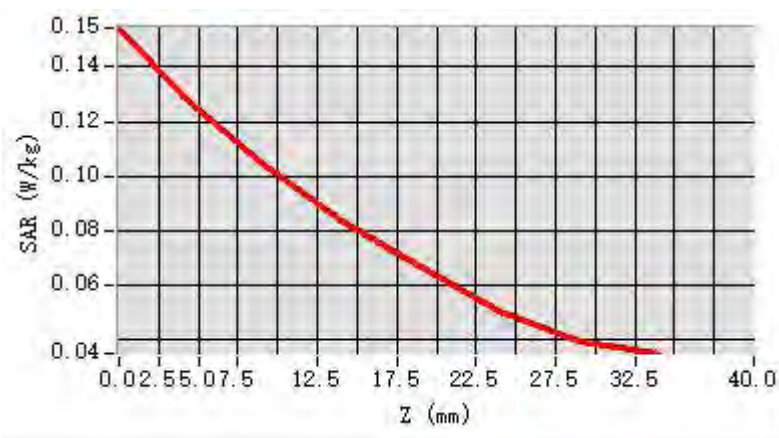
Maximum location: X=-49.00, Y=-49.00 ; SAR Peak: 0.16 W/kg

D. SAR 1g & 10g

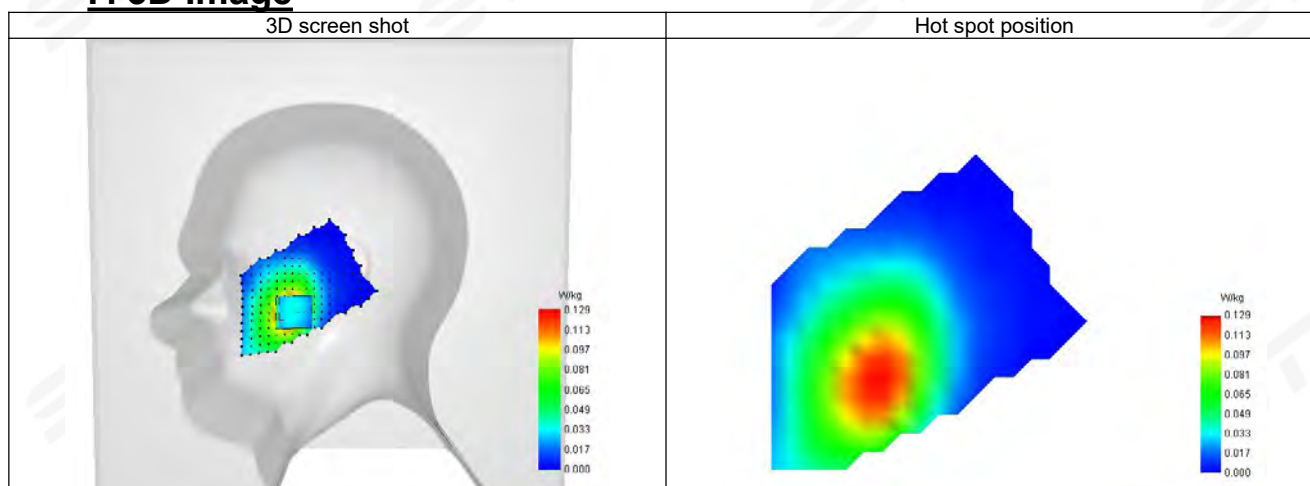
SAR 10g (W/Kg)	0.094
SAR 1g (W/Kg)	0.126
Horizontal validation criteria: minimum distance (mm)	22.627417
Vertical validation criteria: SAR ratio M2/M1 (%)	81.135131

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.154	0.129	0.105	0.084	0.067	0.051	0.039



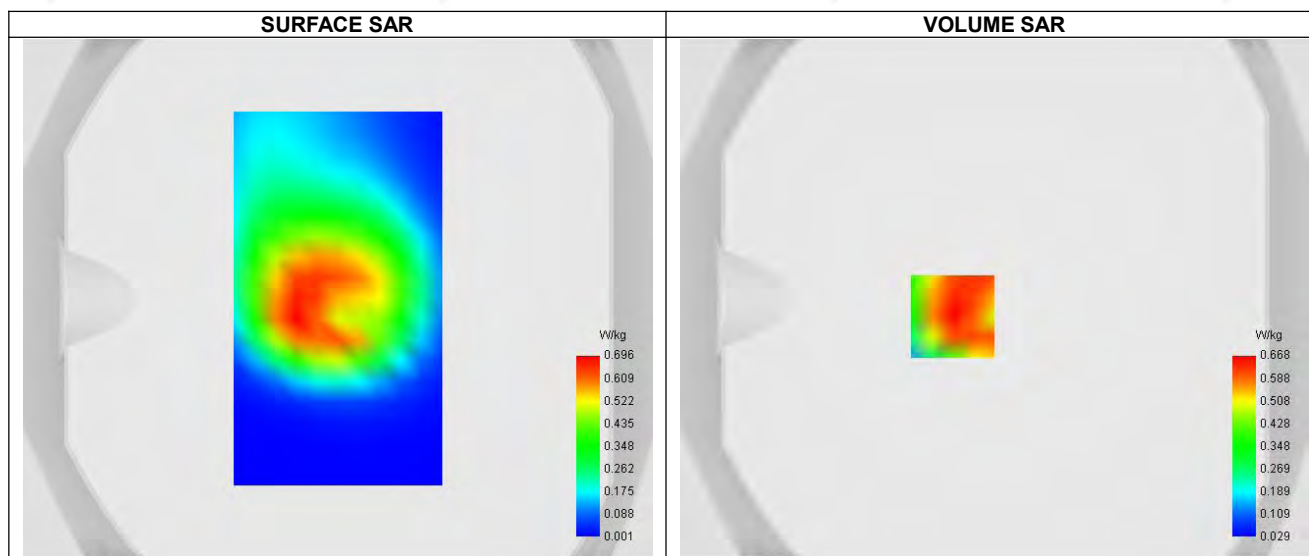
F. 3D Image





Plot 18: DUT: Smart Phone; EUT Model: HPPL61B

Test Date	2026-03-23
ConvF	1.51
Probe	SN 08/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	LTE Band 12 (RB 1)
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	704
Relative permittivity (real part)	41.99
Conductivity (S/m)	0.87



Maximum location: X=-16.00, Y=-7.00 ; SAR Peak: 1.04 W/kg

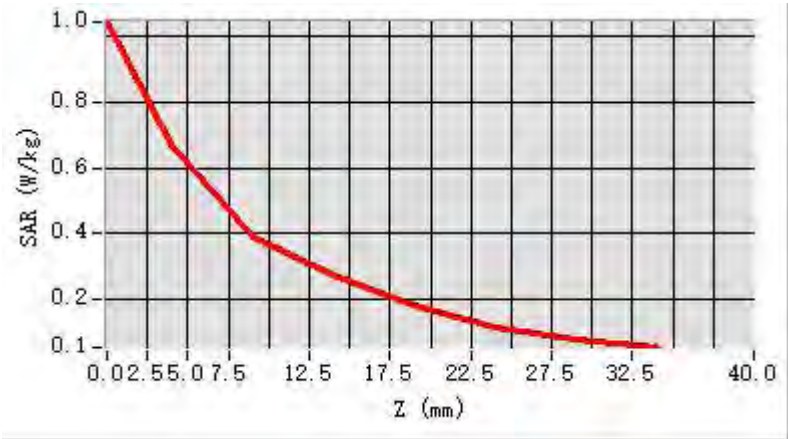
D. SAR 1g & 10g

SAR 10g (W/Kg)	0.362
SAR 1g (W/Kg)	0.656
Horizontal validation criteria: minimum distance (mm)	17.888544
Vertical validation criteria: SAR ratio M2/M1 (%)	65.611733

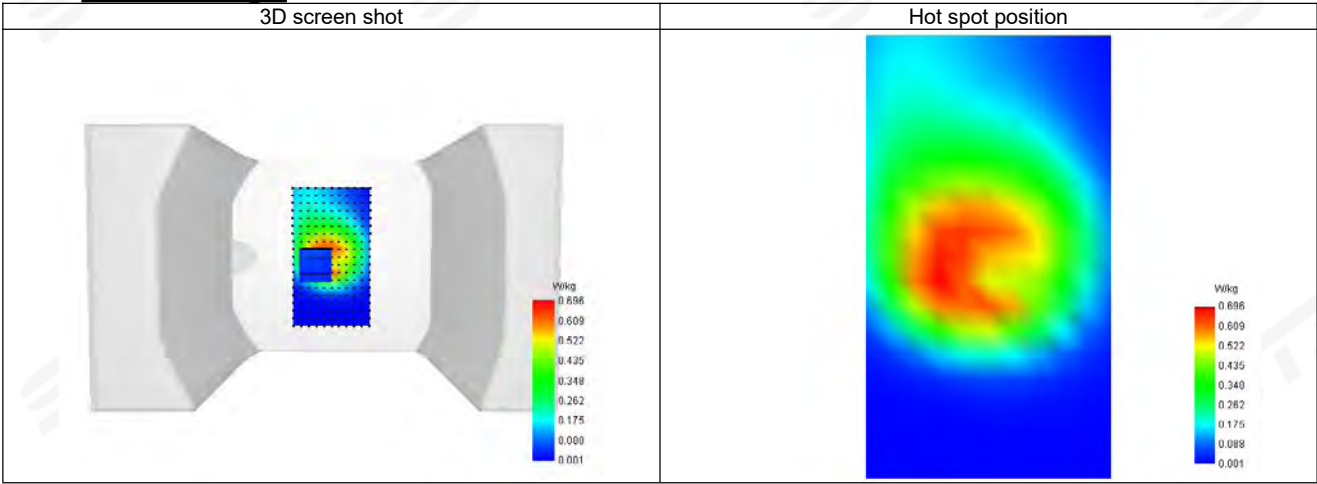


E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.043	0.668	0.391	0.275	0.180	0.117	0.077

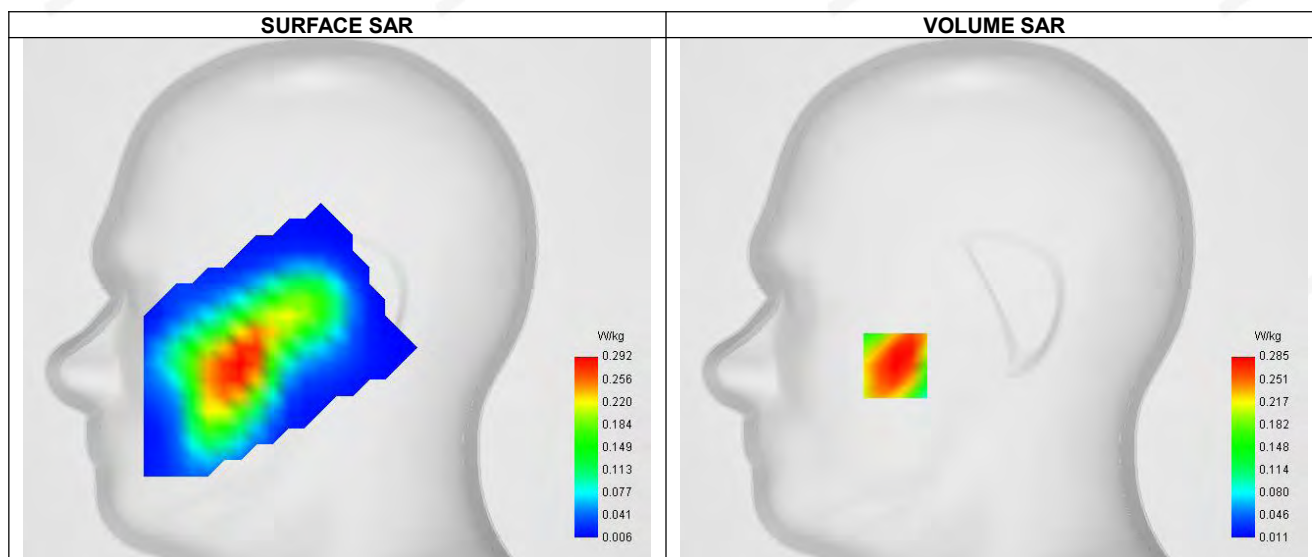


F. 3D Image



Plot 19: DUT: Smart Phone; EUT Model: HPPL61B

Test Date	2026-03-26
ConvF	1.73
Probe	SN 08/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm
Phantom	Right head
Device Position	Cheek
Band	LTE Band 25 (RB 1)
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	1860
Relative permittivity (real part)	39.91
Conductivity (S/m)	1.40



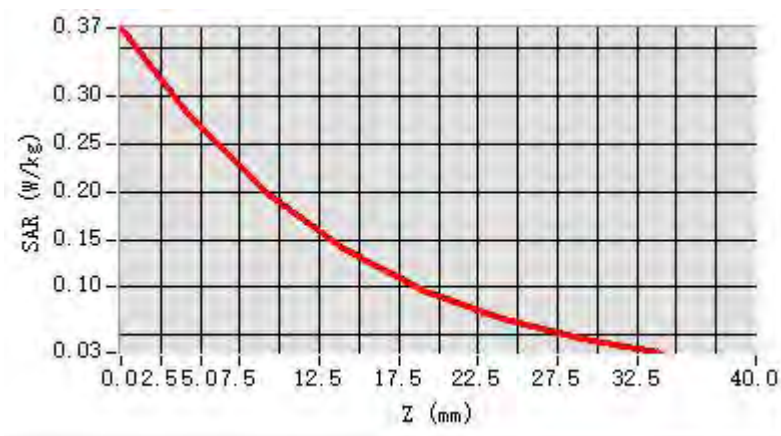
Maximum location: X=-49.00, Y=-33.00 ; SAR Peak: 0.40 W/kg

D. SAR 1g & 10g

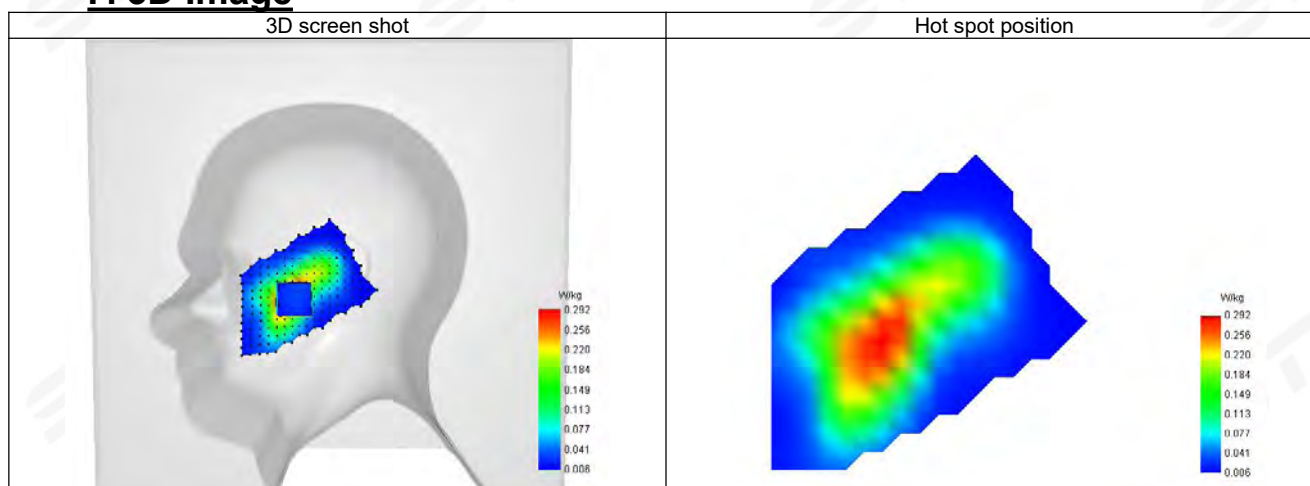
SAR 10g (W/Kg)	0.176
SAR 1g (W/Kg)	0.276
Horizontal validation criteria: minimum distance (mm)	17.888544
Vertical validation criteria: SAR ratio M2/M1 (%)	70.667501

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.371	0.285	0.201	0.141	0.097	0.068	0.047

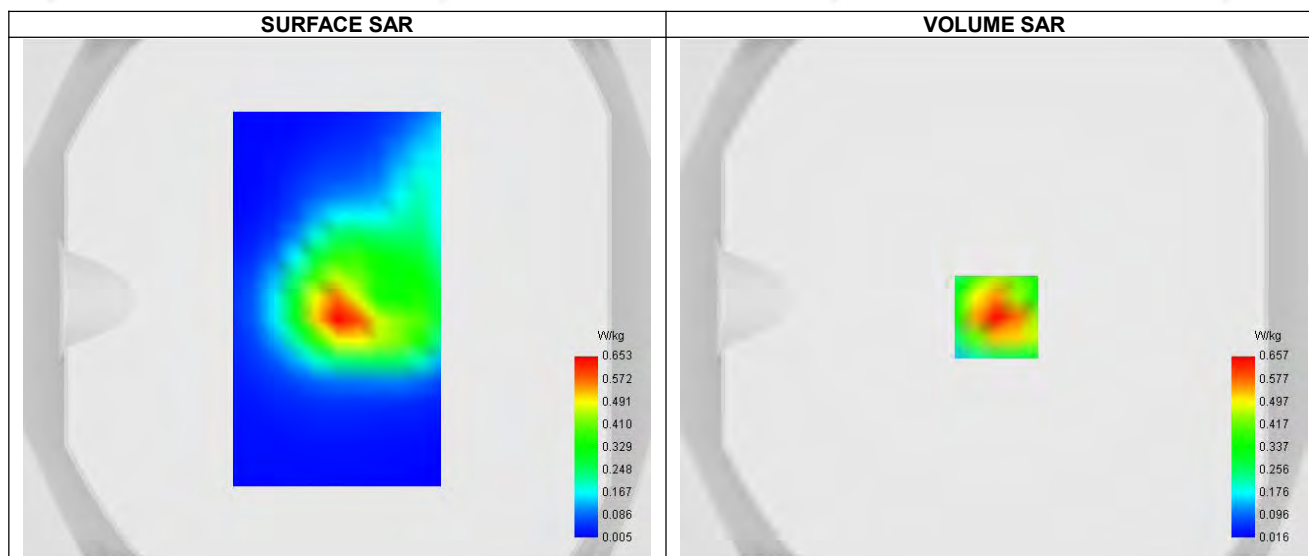


F. 3D Image



**Plot 20: DUT: Smart Phone; EUT Model: HPPL61B**

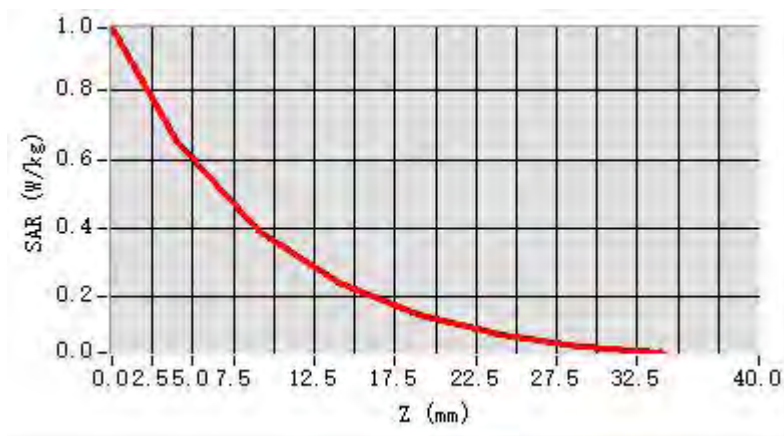
Test Date	2026-03-26
ConvF	1.73
Probe	SN 08/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	LTE Band 25 (RB 1)
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	1860
Relative permittivity (real part)	39.91
Conductivity (S/m)	1.40

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

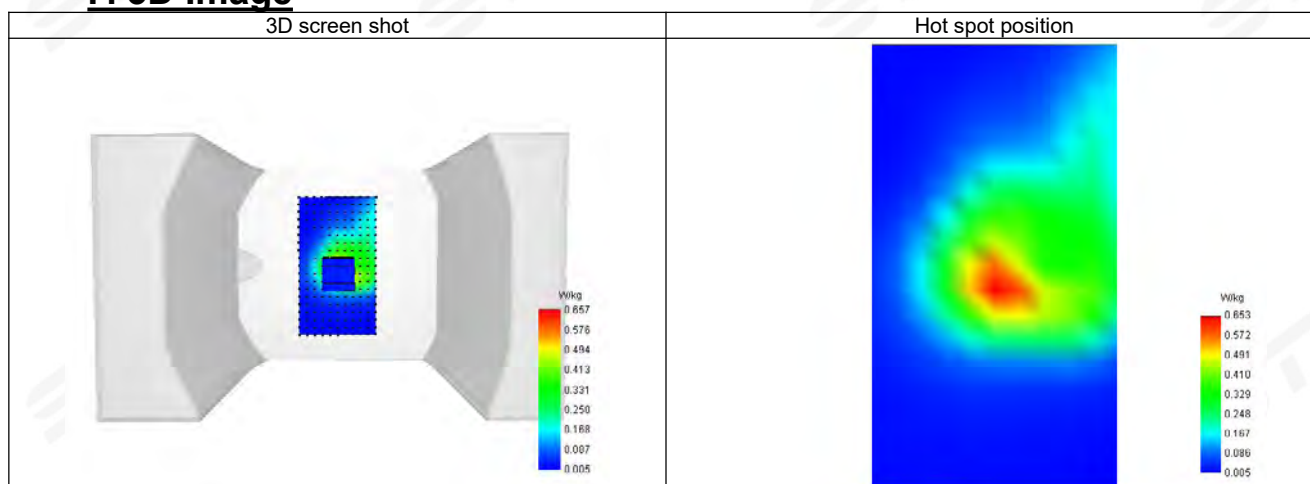
SAR 10g (W/Kg)	0.336
SAR 1g (W/Kg)	0.614
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	59.632775

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.985	0.657	0.392	0.241	0.147	0.089	0.054

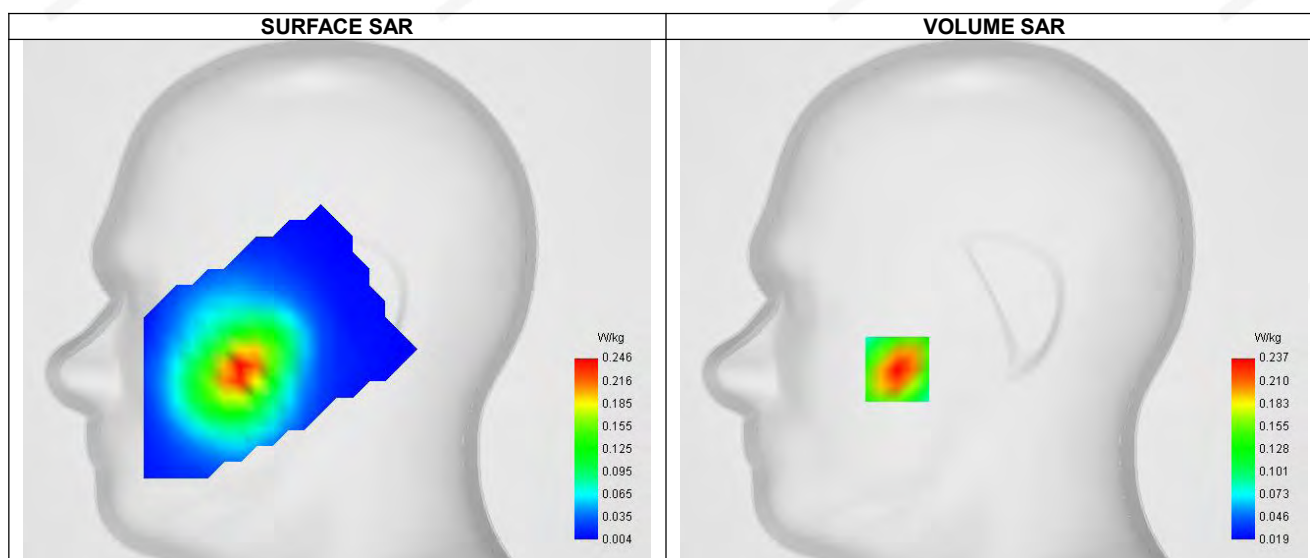


F. 3D Image



Plot 21: DUT: Smart Phone; EUT Model: HPPL61B

Test Date	2026-03-24
ConvF	1.49
Probe	SN 08/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm
Phantom	Right head
Device Position	Cheek
Band	LTE Band 26 (RB 1)
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	831.5
Relative permittivity (real part)	41.52
Conductivity (S/m)	0.89



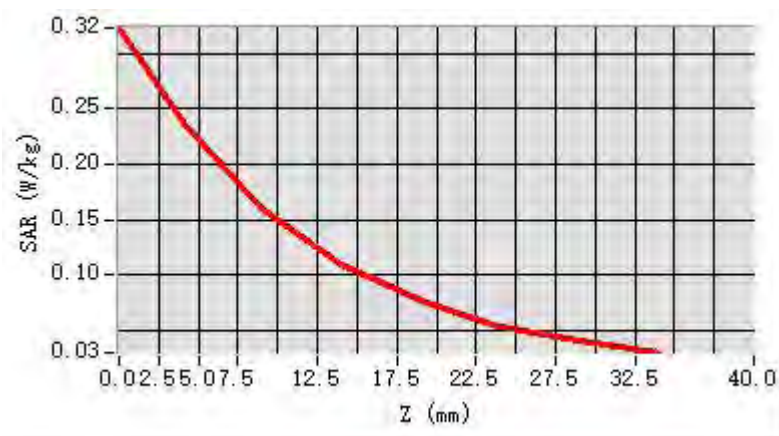
Maximum location: X=-48.00, Y=-34.00 ; SAR Peak: 0.32 W/kg

D. SAR 1g & 10g

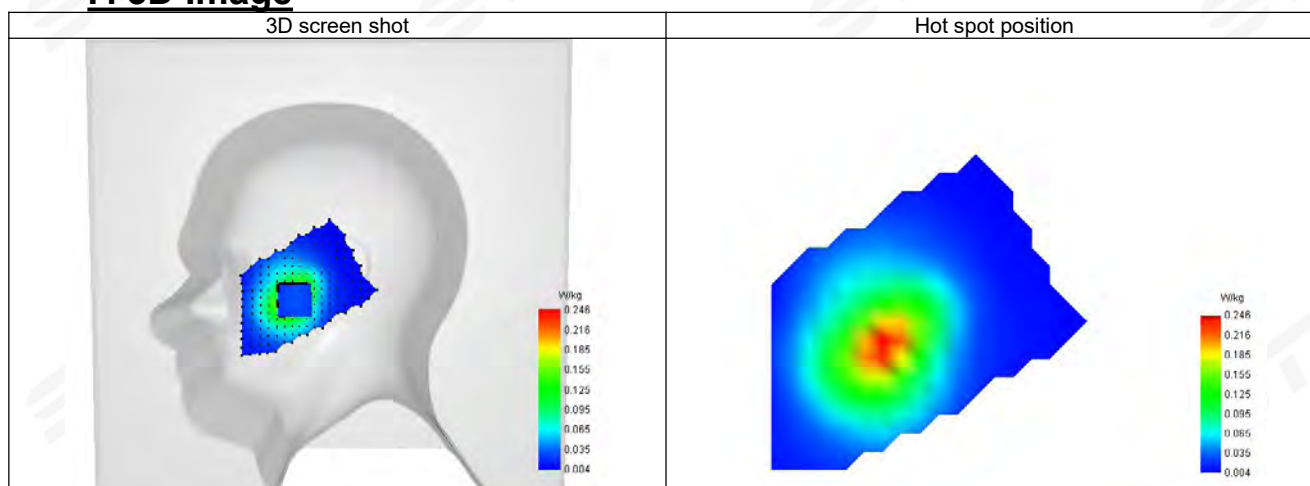
SAR 10g (W/Kg)	0.138
SAR 1g (W/Kg)	0.222
Horizontal validation criteria: minimum distance (mm)	17.888544
Vertical validation criteria: SAR ratio M2/M1 (%)	67.605493

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.323	0.237	0.160	0.111	0.077	0.055	0.041



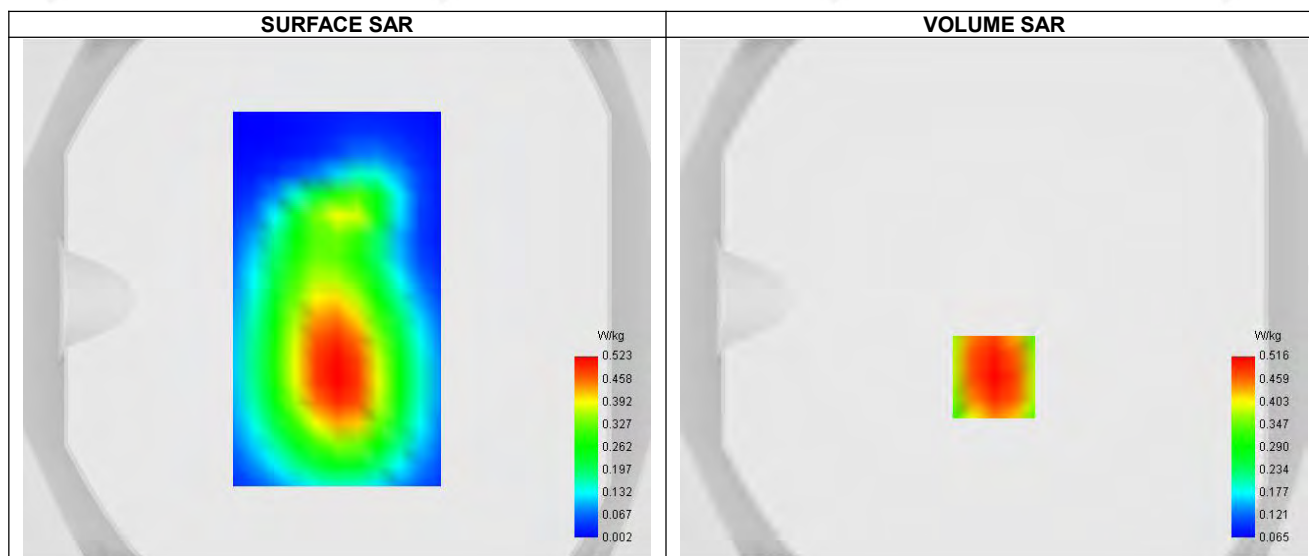
F. 3D Image





Plot 22: DUT: Smart Phone; EUT Model: HPPL61B

Test Date	2026-03-24
ConvF	1.49
Probe	SN 08/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	LTE Band 26 (RB 1)
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	831.5
Relative permittivity (real part)	41.52
Conductivity (S/m)	0.89



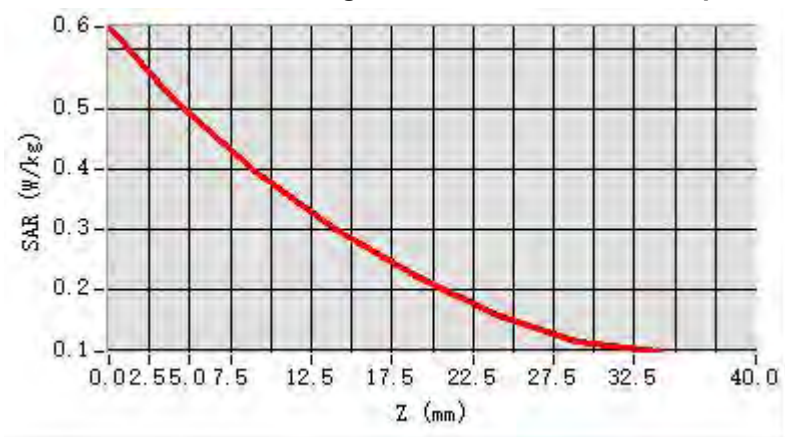
Maximum location: X=0.00, Y=-30.00 ; SAR Peak: 0.63 W/kg

D. SAR 1g & 10g

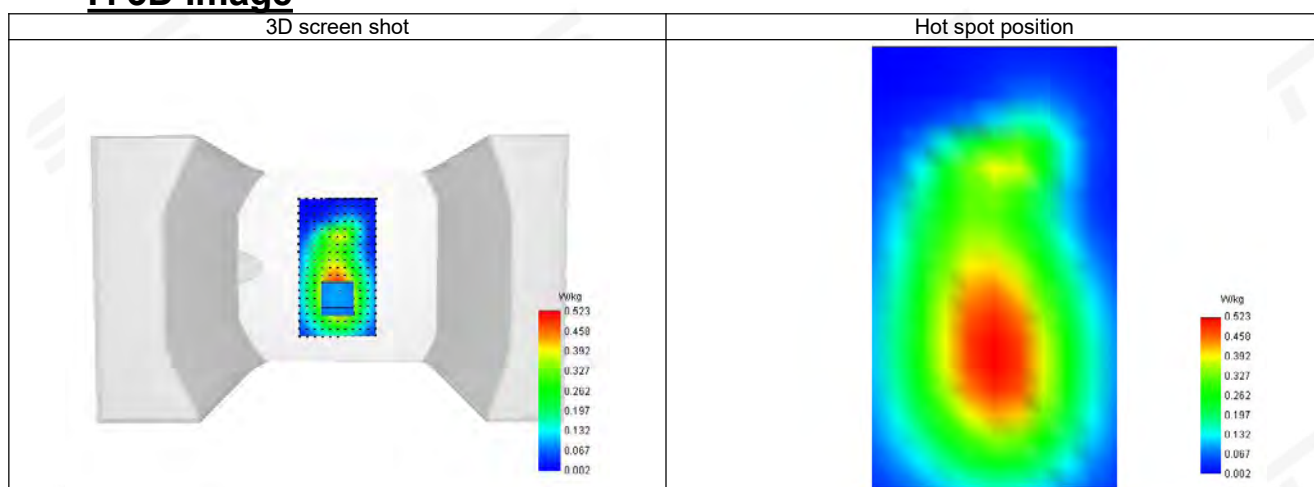
SAR 10g (W/Kg)	0.355
SAR 1g (W/Kg)	0.499
Horizontal validation criteria: minimum distance (mm)	14.259841
Vertical validation criteria: SAR ratio M2/M1 (%)	76.744186

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.637	0.516	0.396	0.301	0.223	0.156	0.112

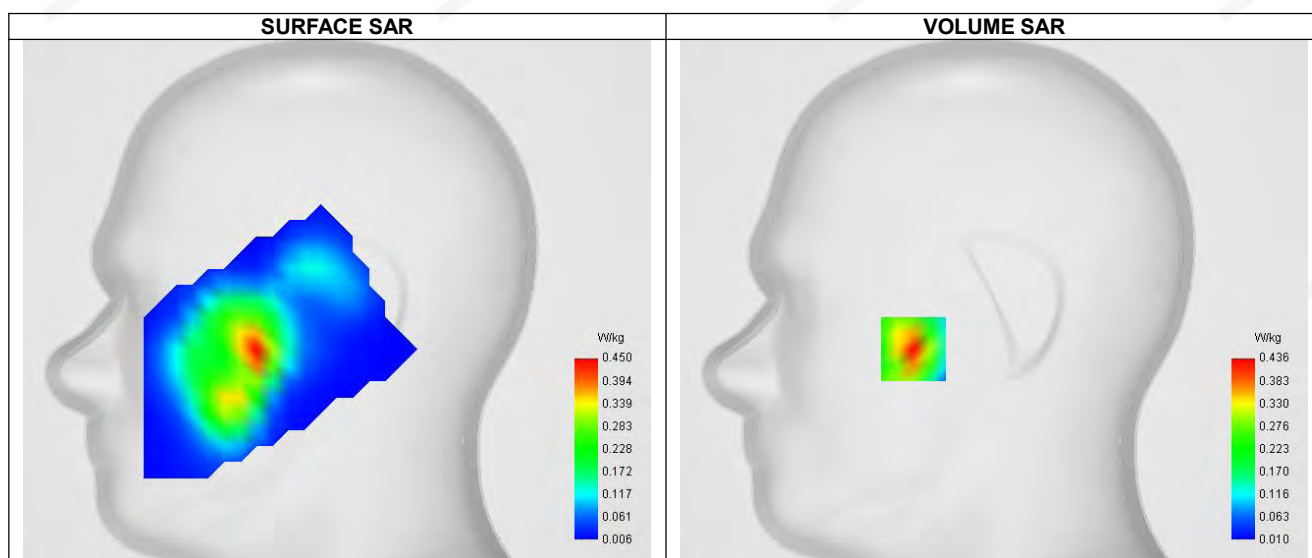


F. 3D Image



Plot 23: DUT: Smart Phone; EUT Model: HPPL61B

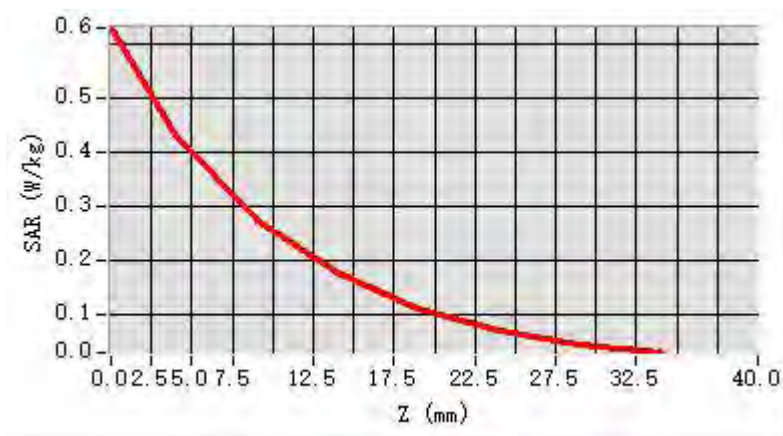
Test Date	2026-03-27
ConvF	1.70
Probe	SN 08/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm
Phantom	Right head
Device Position	Cheek
Band	LTE Band 41 (RB 1)
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	2506
Relative permittivity (real part)	39.96
Conductivity (S/m)	1.87


D. SAR 1g & 10g

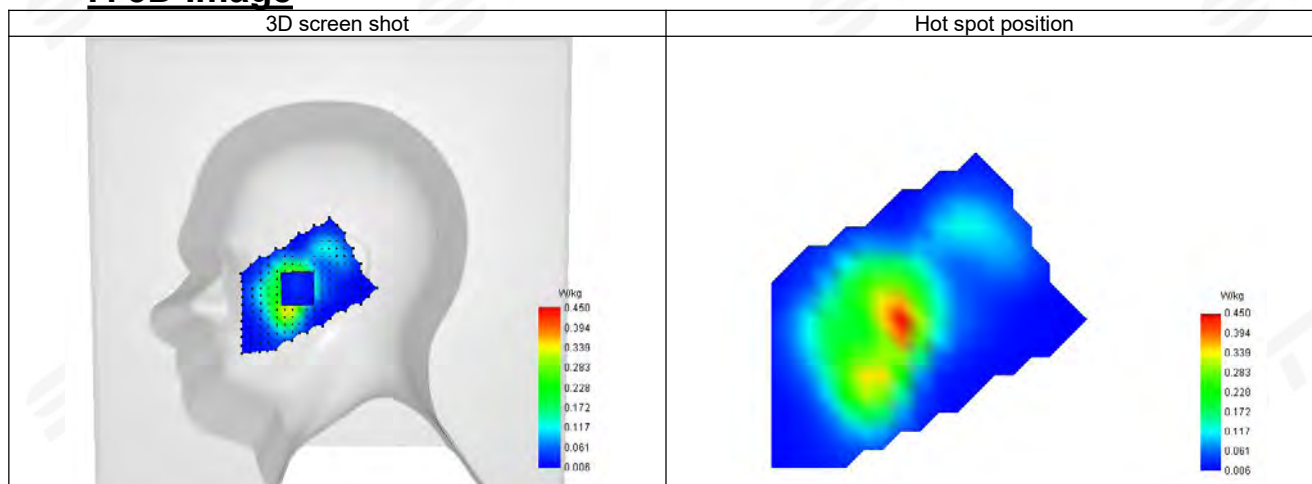
SAR 10g (W/Kg)	0.218
SAR 1g (W/Kg)	0.397
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	62.860327

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.631	0.436	0.274	0.177	0.114	0.073	0.047

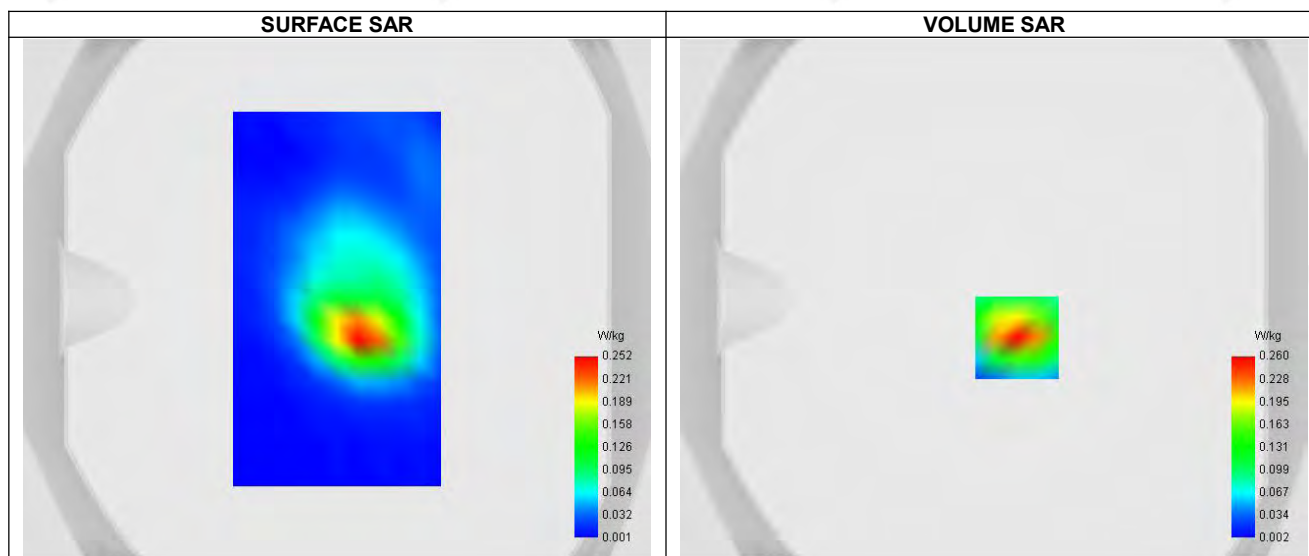


F. 3D Image



**Plot 24: DUT: Smart Phone; EUT Model: HPPL61B**

Test Date	2026-03-27
ConvF	1.70
Probe	SN 08/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	LTE Band 41 (RB 1)
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	2506
Relative permittivity (real part)	39.96
Conductivity (S/m)	1.87



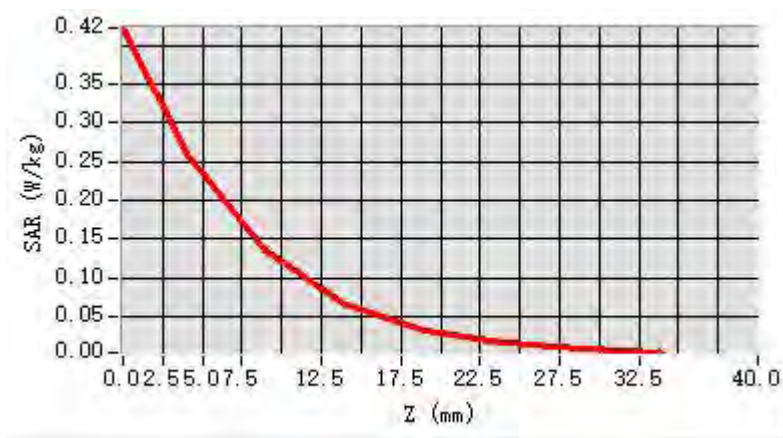
Maximum location: X=9.00, Y=-15.00 ; SAR Peak: 0.42 W/kg

D. SAR 1g & 10g

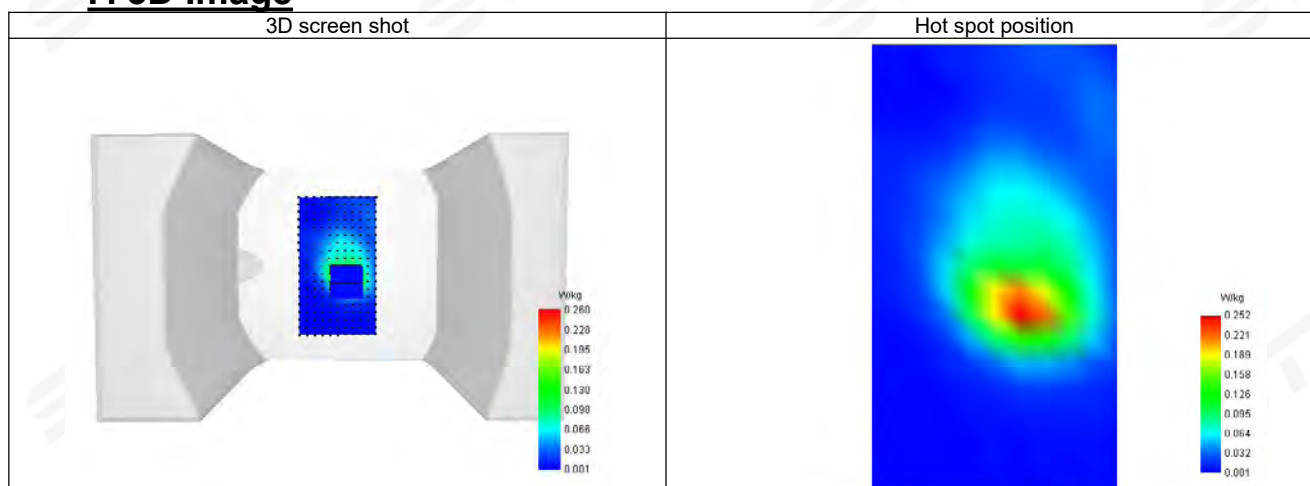
SAR 10g (W/Kg)	0.111
SAR 1g (W/Kg)	0.239
Horizontal validation criteria: minimum distance (mm)	11.313708
Vertical validation criteria: SAR ratio M2/M1 (%)	51.627037

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.422	0.260	0.134	0.066	0.033	0.016	0.008

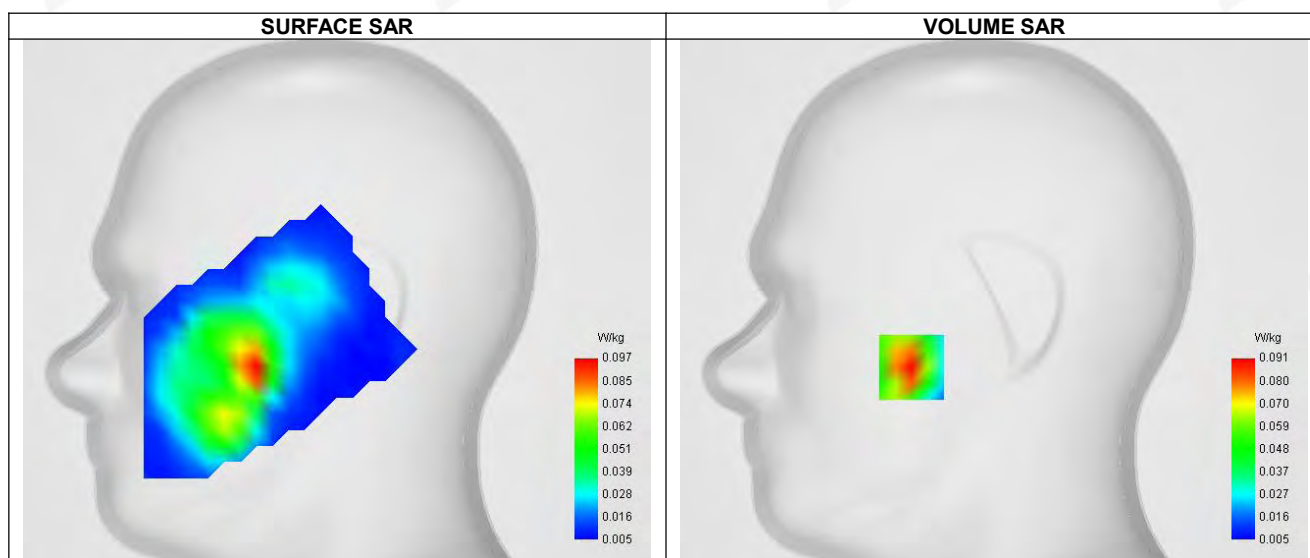


F. 3D Image



Plot 25: DUT: Smart Phone; EUT Model: HPPL61B

Test Date	2026-03-25
ConvF	1.54
Probe	SN 08/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm
Phantom	Right head
Device Position	Cheek
Band	LTE Band 66 (RB 1)
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	1720
Relative permittivity (real part)	40.51
Conductivity (S/m)	1.35



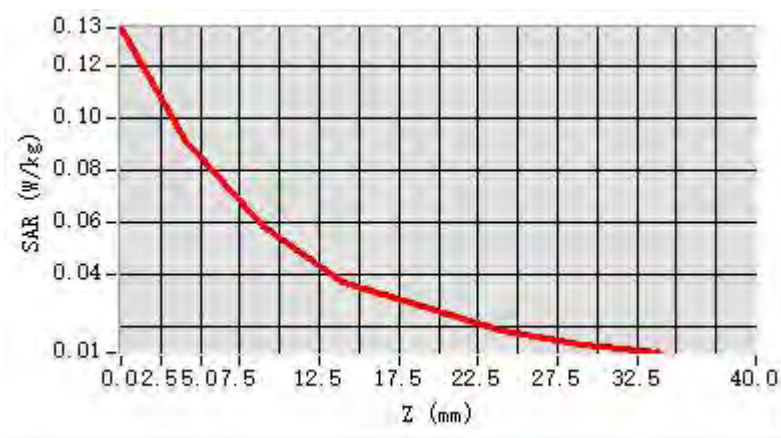
Maximum location: X=-41.00, Y=-33.00 ; SAR Peak: 0.14 W/kg

D. SAR 1g & 10g

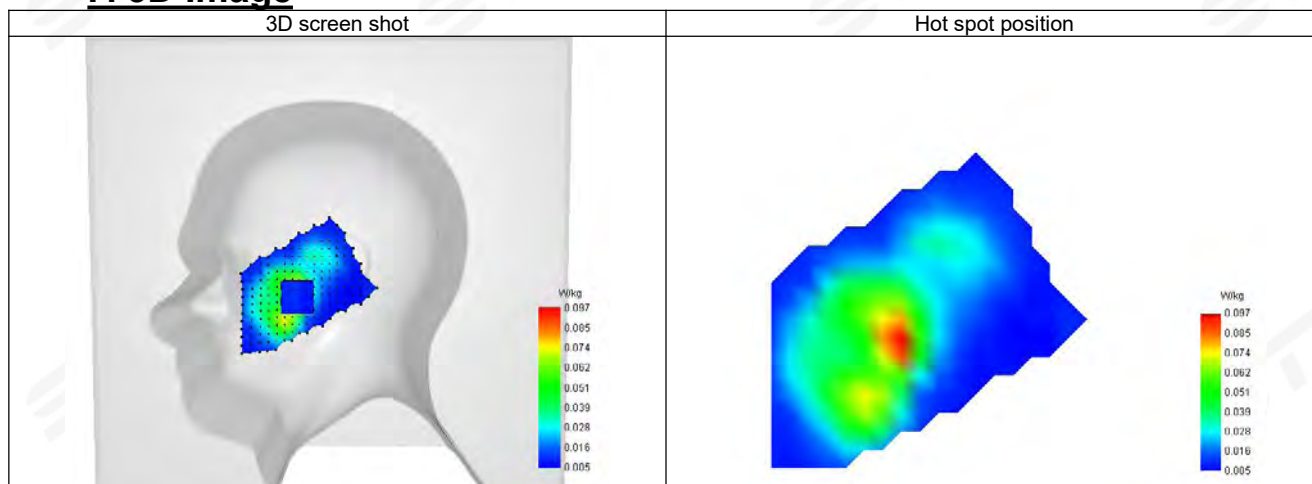
SAR 10g (W/Kg)	0.050
SAR 1g (W/Kg)	0.086
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	63.751601

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.135	0.091	0.058	0.037	0.027	0.018	0.012



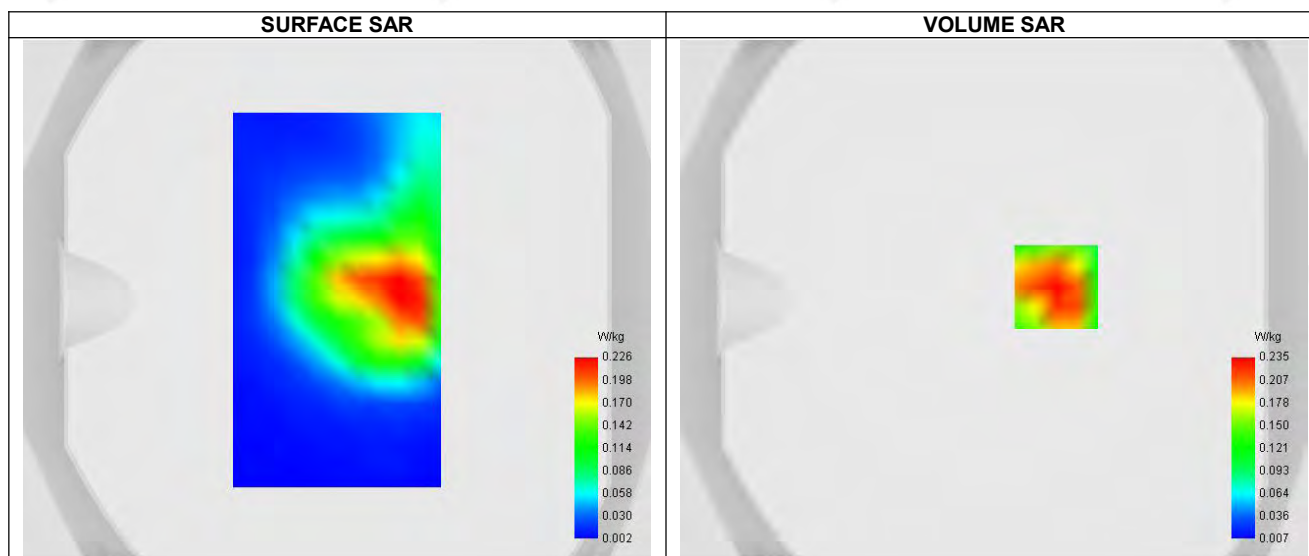
F. 3D Image





Plot 26: DUT: Smart Phone; EUT Model: HPPL61B

Test Date	2026-03-25
ConvF	1.54
Probe	SN 08/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	LTE Band 66 (RB 1)
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	1720
Relative permittivity (real part)	40.51
Conductivity (S/m)	1.35



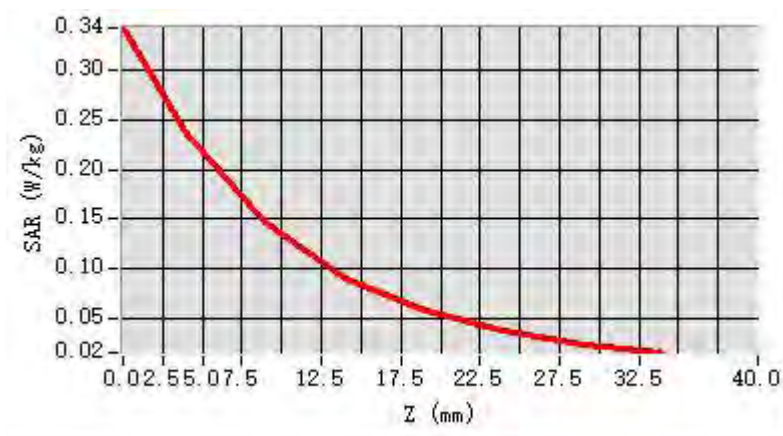
Maximum location: X=24.00, Y=5.00 ; SAR Peak: 0.35 W/kg

D. SAR 1g & 10g

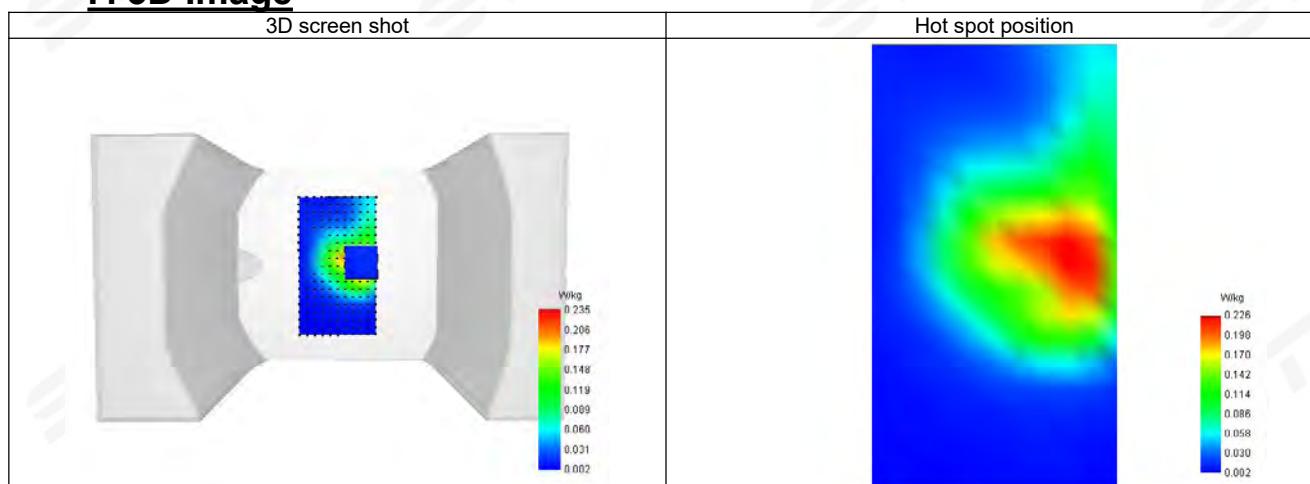
SAR 10g (W/Kg)	0.132
SAR 1g (W/Kg)	0.225
Horizontal validation criteria: minimum distance (mm)	17.888544
Vertical validation criteria: SAR ratio M2/M1 (%)	62.388643

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.342	0.235	0.147	0.090	0.059	0.037	0.023

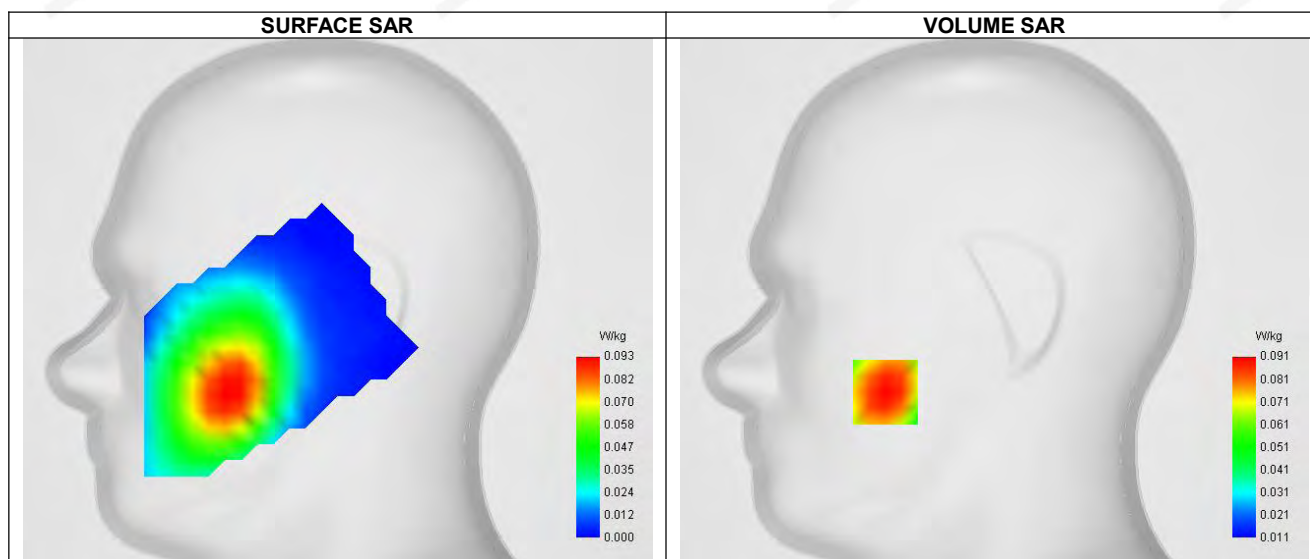


F. 3D Image



Plot 27: DUT: Smart Phone; EUT Model: HPPL61B

Test Date	2026-03-23
ConvF	1.51
Probe	SN 08/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm
Phantom	Right head
Device Position	Cheek
Band	LTE Band 71 (RB 1)
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	673
Relative permittivity (real part)	42.49
Conductivity (S/m)	0.87



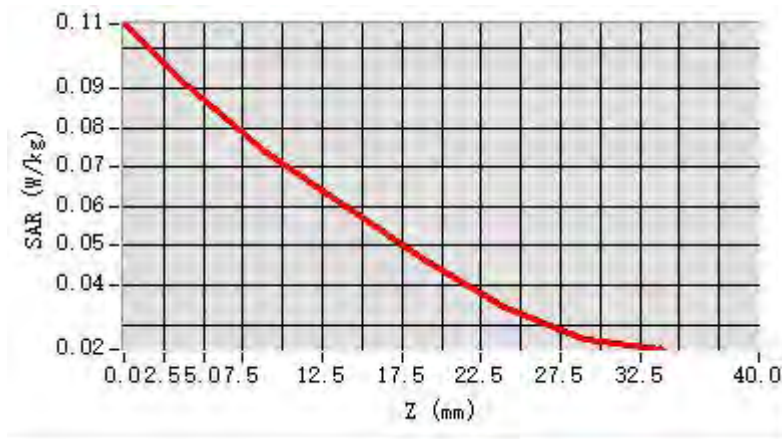
Maximum location: X=-54.00, Y=-46.00 ; SAR Peak: 0.11 W/kg

D. SAR 1g & 10g

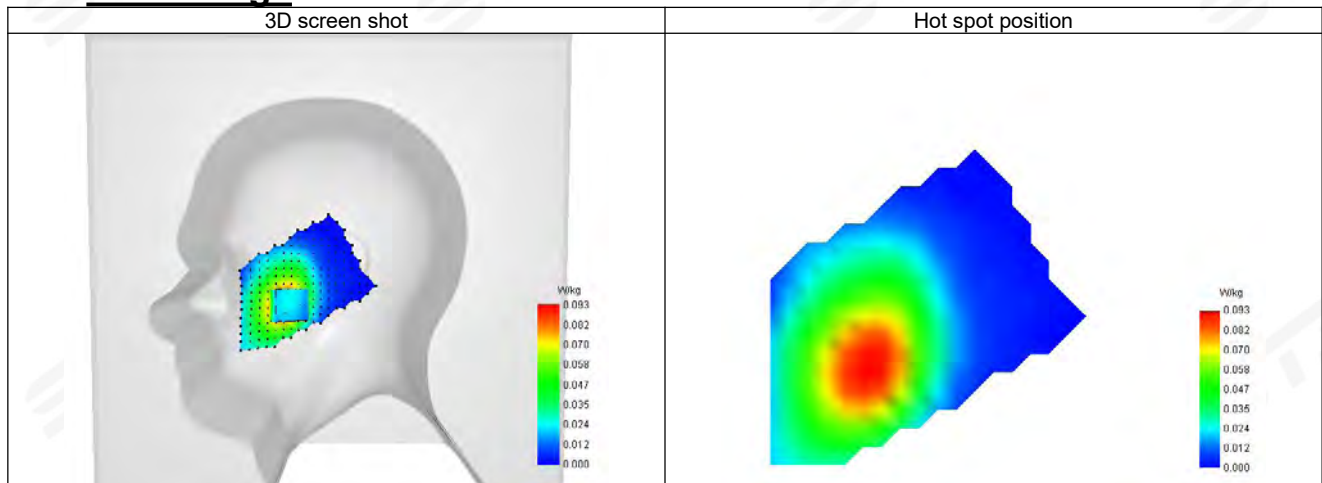
SAR 10g (W/Kg)	0.066
SAR 1g (W/Kg)	0.088
Horizontal validation criteria: minimum distance (mm)	12.124151
Vertical validation criteria: SAR ratio M2/M1 (%)	71.921014

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.106	0.091	0.074	0.060	0.046	0.034	0.027

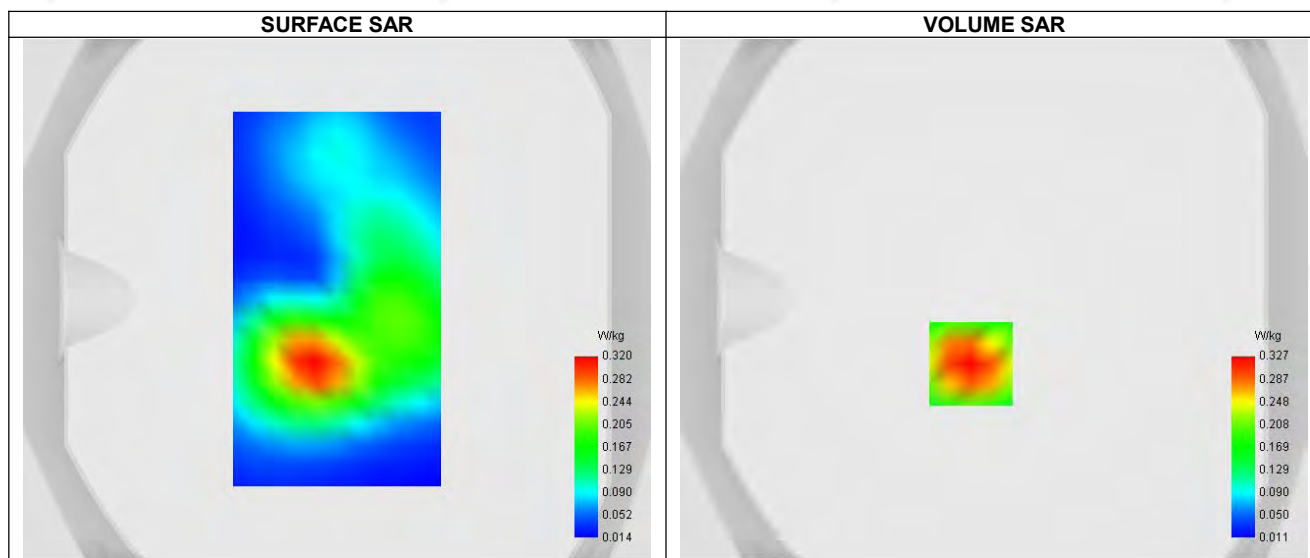


F. 3D Image



Plot 28: DUT: Smart Phone; EUT Model: HPPL61B

Test Date	2026-03-23
ConvF	1.51
Probe	SN 08/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	LTE Band 71 (RB 1)
Signal	LTE (Cr est factor: 1.0)
Frequency (MHz)	673
Relative permittivity (real part)	42.49
Conductivity (S/m)	0.87



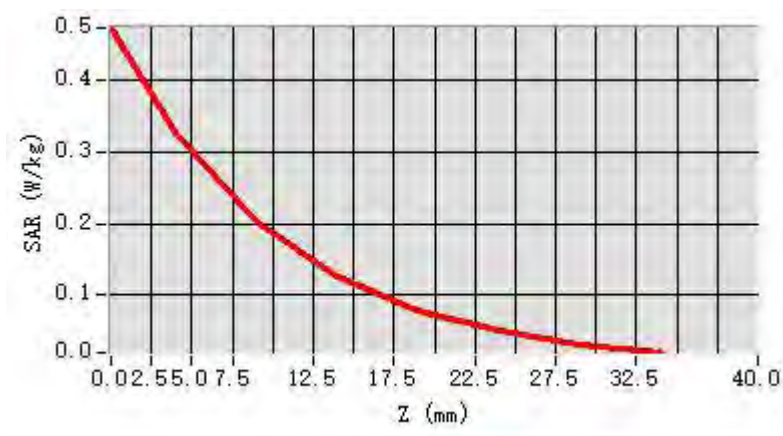
Maximum location: X=-9.00, Y=-25.00 ; SAR Peak: 0.47 W/kg

D. SAR 1g & 10g

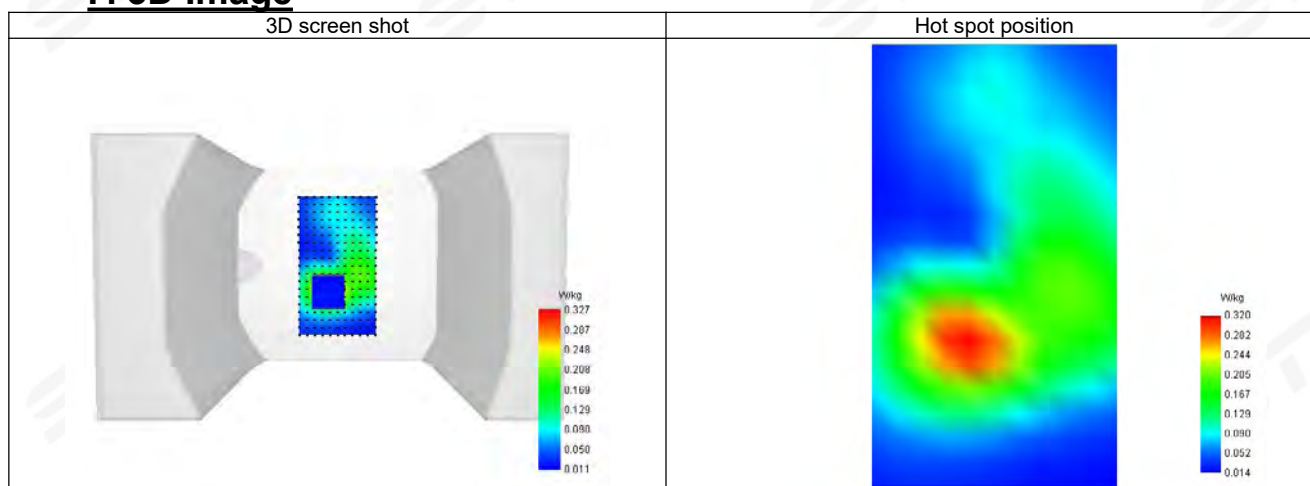
SAR 10g (W/Kg)	0.183
SAR 1g (W/Kg)	0.311
Horizontal validation criteria: minimum distance (mm)	22.627417
Vertical validation criteria: SAR ratio M2/M1 (%)	62.143775

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.474	0.327	0.203	0.127	0.080	0.050	0.031

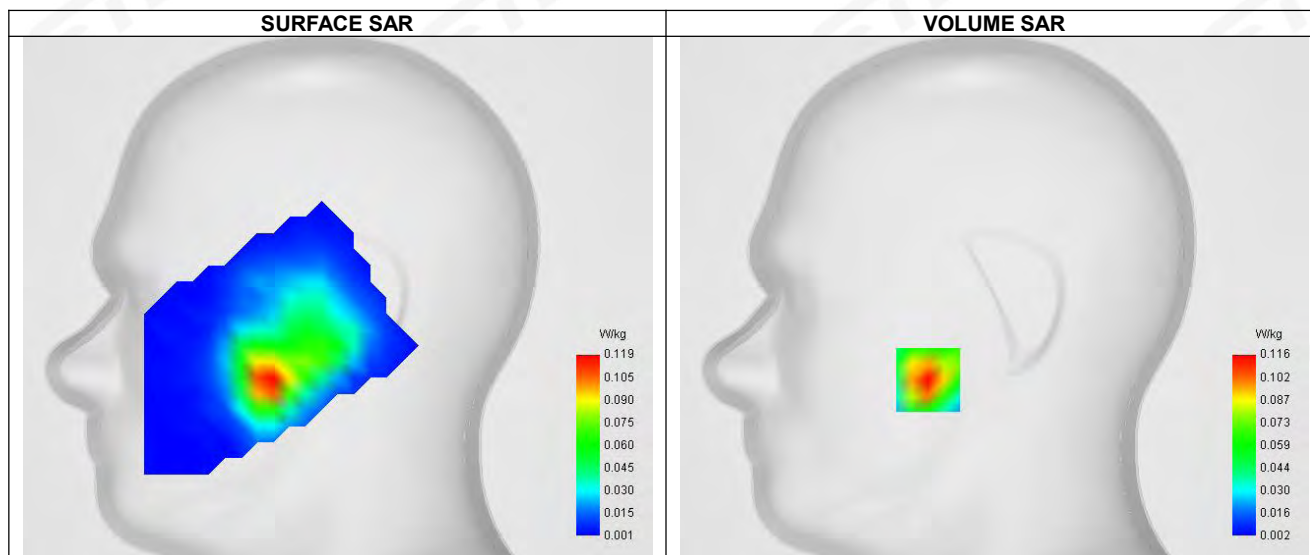


F. 3D Image



Plot 29: DUT: Smart Phone; EUT Model: HPPL61B

Test Date	2026-03-27
ConvF	1.82
Probe	SN 08/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm
Phantom	Right Cheek
Device Position	Cheek
Band	IEEE 802.11b ISM
Signal	IEEE802.b (Crest factor: 1.0)
Frequency (MHz)	2462
Relative permittivity (real part)	39.20
Conductivity (S/m)	1.82



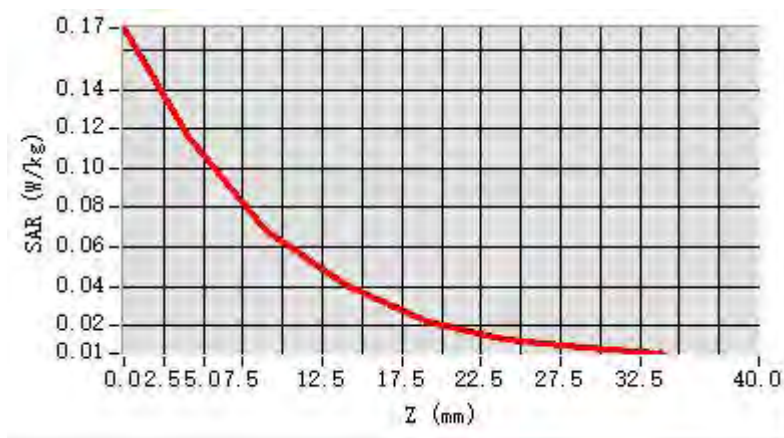
Maximum location: X=-33.00, Y=-41.00 ; SAR Peak: 0.17 W/kg

D. SAR 1g & 10g

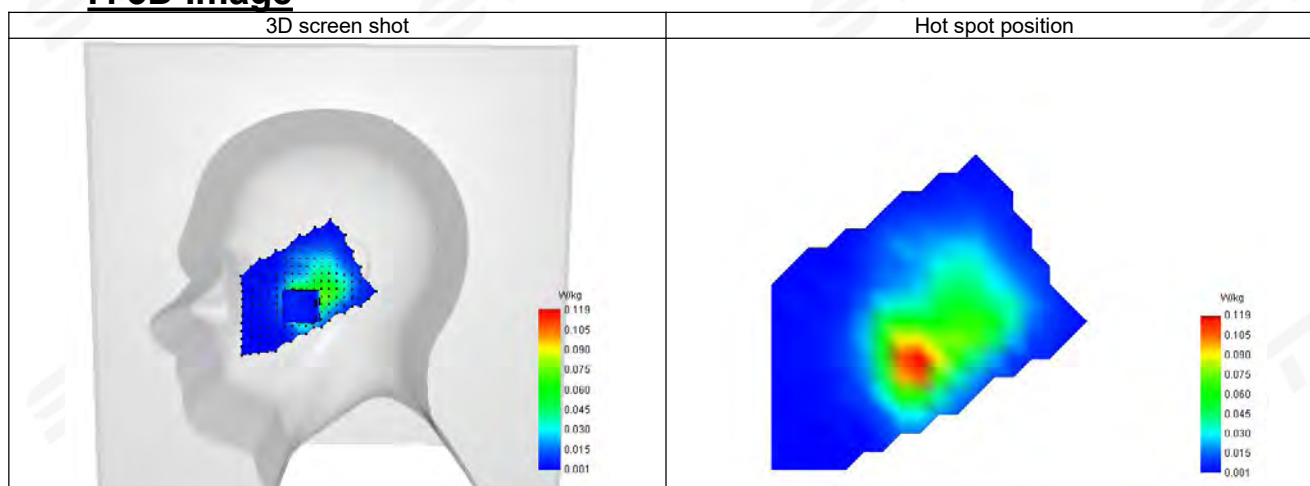
SAR 10g (W/Kg)	0.056
SAR 1g (W/Kg)	0.108
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	58.569162

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.172	0.116	0.068	0.040	0.022	0.013	0.009



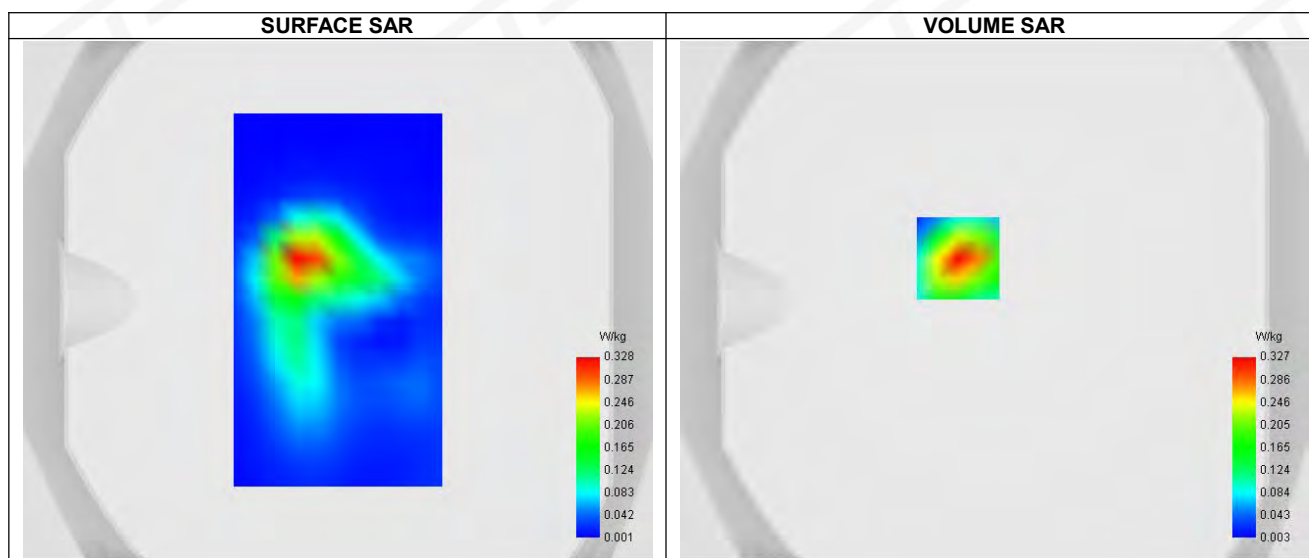
F. 3D Image





Plot 30: DUT: Smart Phone; EUT Model: HPPL61B

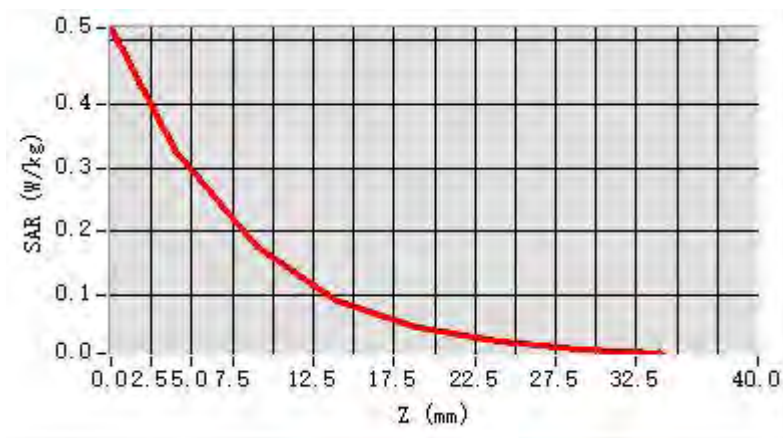
Test Date	2026-03-27
ConvF	1.82
Probe	SN 08/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	IEEE 802.11b ISM
Signal	IEEE802.b (Crest factor: 1.0)
Frequency (MHz)	2462
Relative permittivity (real part)	39.20
Conductivity (S/m)	1.82

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

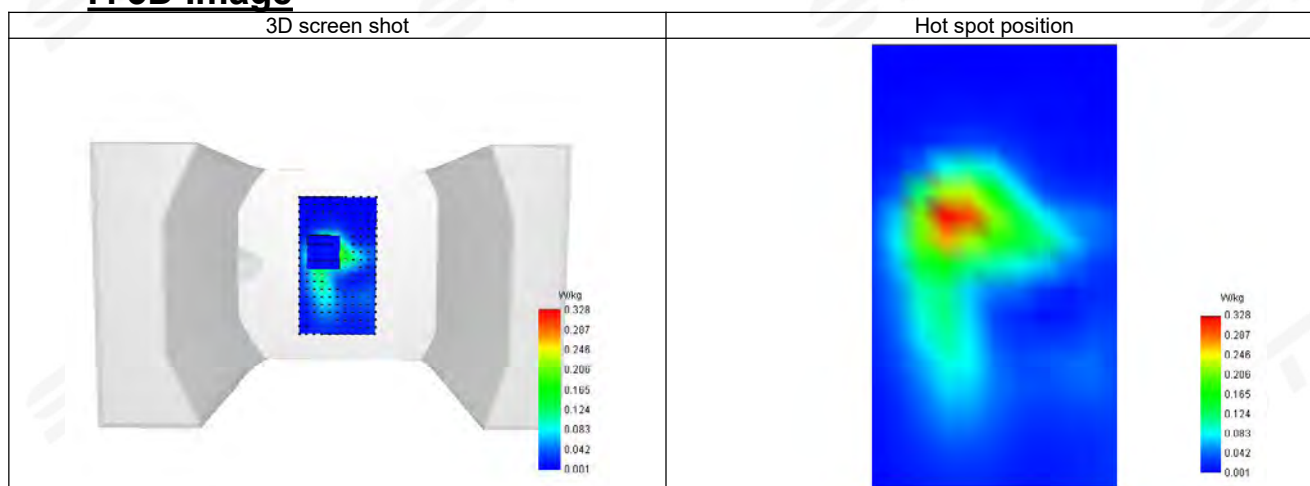
SAR 10g (W/Kg)	0.145
SAR 1g (W/Kg)	0.300
Horizontal validation criteria: minimum distance (mm)	11.313708
Vertical validation criteria: SAR ratio M2/M1 (%)	53.789629

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.520	0.327	0.176	0.092	0.050	0.027	0.015

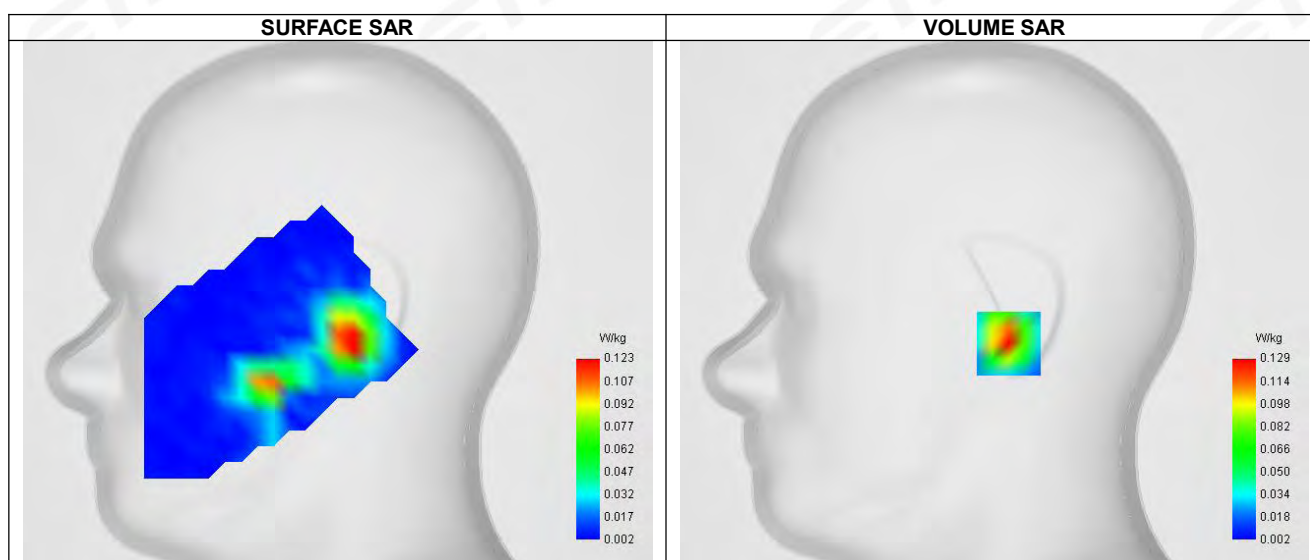


F. 3D Image



Plot 31: DUT: Smart Phone; EUT Model: HPPL61B

Test Date	2026-03-28
ConvF	1.37
Probe	SN 08/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	7x7x12, dx=4mm, dy=4mm, dz=2mm,
Phantom	Right Cheek
Device Position	Cheek
Band	802.11 n-HT20
Signal	802.11 n-HT20 (Crest factor: 1.0)
Frequency (MHz)	5240
Relative permittivity (real part)	36.60
Conductivity (S/m)	4.70



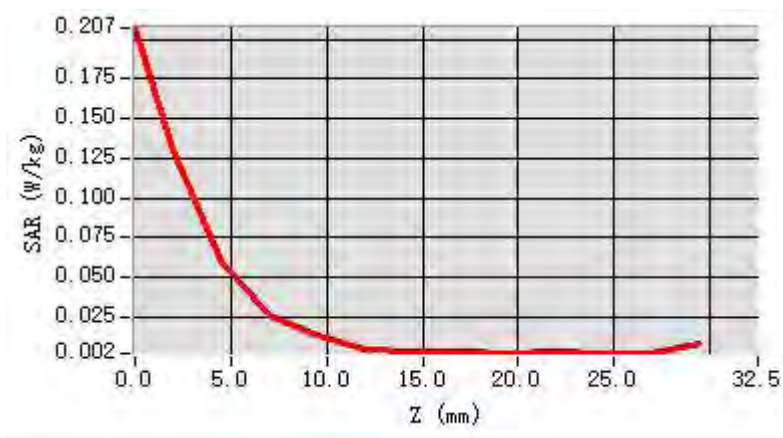
Maximum location: X=7.00, Y=-21.00 ; SAR Peak: 0.31 W/kg

D. SAR 1g & 10g

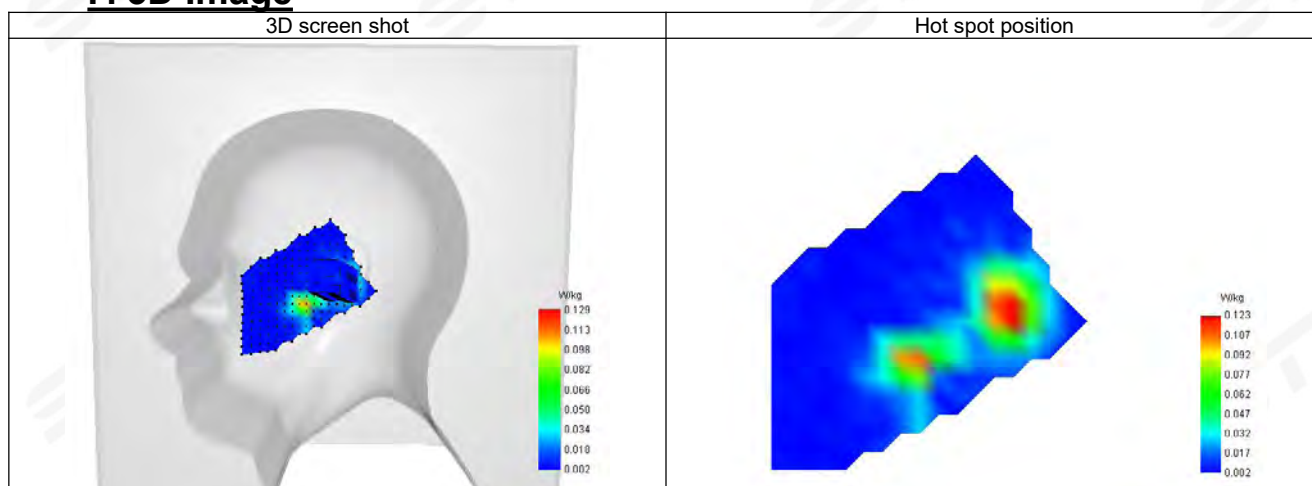
SAR 10g (W/Kg)	0.048
SAR 1g (W/Kg)	0.129
Horizontal validation criteria: minimum distance (mm)	11.313708
Vertical validation criteria: SAR ratio M2/M1 (%)	46.677837

E. Z Axis Scan

Z (mm)	0.00	2.00	4.50	7.00	9.50	12.00	14.50	17.00	19.50	22.00	24.50	27.00
SAR (W/Kg)	0.207	0.129	0.060	0.026	0.013	0.004	0.003	0.004	0.002	0.003	0.002	0.002



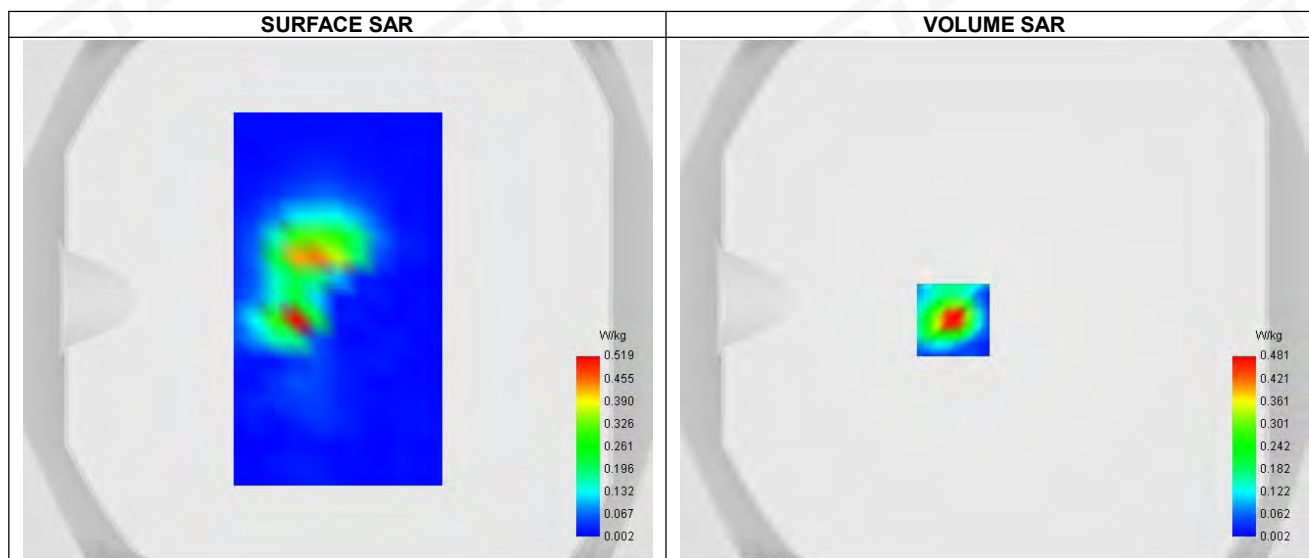
F. 3D Image





Plot 32: DUT: Smart Phone; EUT Model: HPPL61B

Test Date	2026-03-28
ConvF	1.37
Probe	SN 08/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	7x7x12, dx=4mm, dy=4mm, dz=2mm,
Phantom	Validation plane
Device Position	Back Side
Band	802.11 n-HT20
Signal	802.11 n-HT20 (Crest factor: 1.0)
Frequency (MHz)	5240
Relative permittivity (real part)	36.60
Conductivity (S/m)	4.70



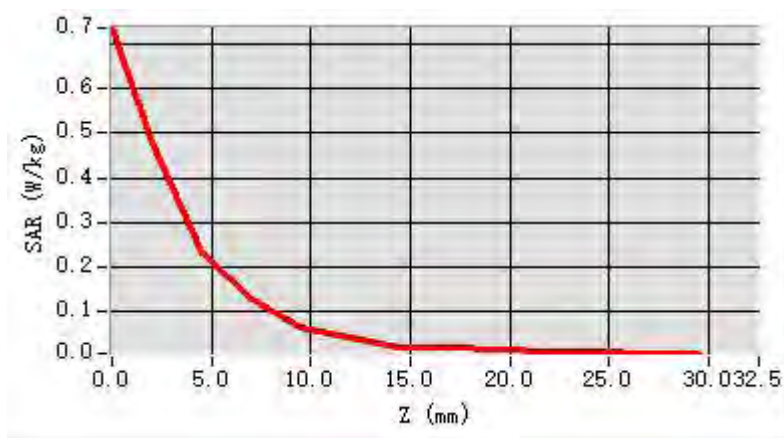
Maximum location: X=-16.00, Y=-8.00 ; SAR Peak: 0.82 W/kg

D. SAR 1g & 10g

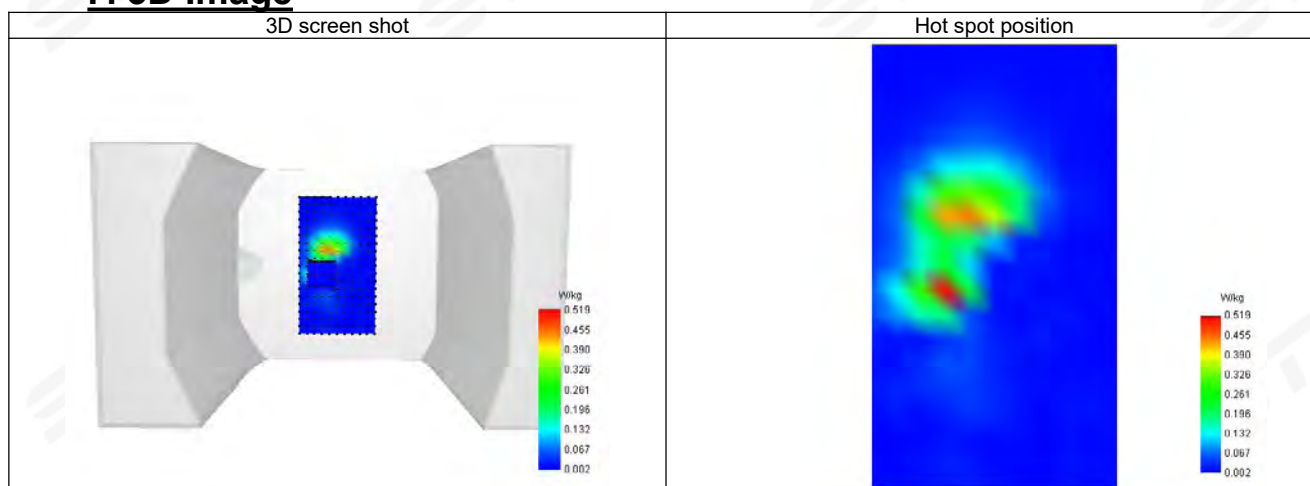
SAR 10g (W/Kg)	0.080
SAR 1g (W/Kg)	0.281
Horizontal validation criteria: minimum distance (mm)	5.656854
Vertical validation criteria: SAR ratio M2/M1 (%)	50.075020

E. Z Axis Scan

Z (mm)	0.00	2.00	4.50	7.00	9.50	12.00	14.50	17.00	19.50	22.00	24.50	27.00
SAR (W/Kg)	0.737	0.481	0.232	0.128	0.063	0.041	0.017	0.020	0.015	0.007	0.007	0.005



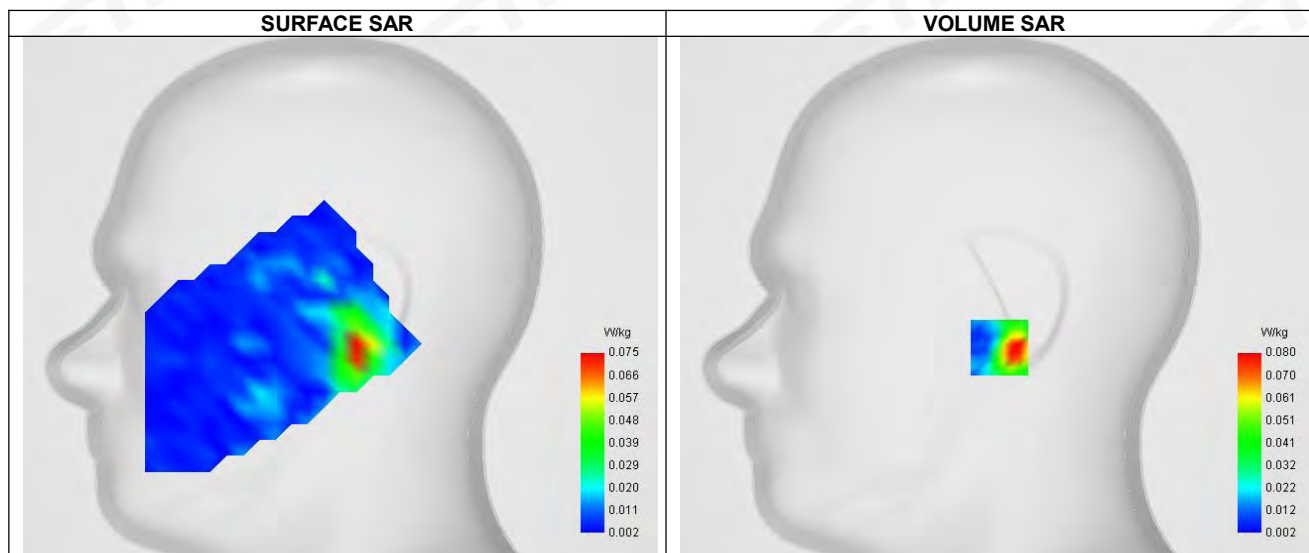
F. 3D Image





Plot 33: DUT: Smart Phone; EUT Model: HPPL61B

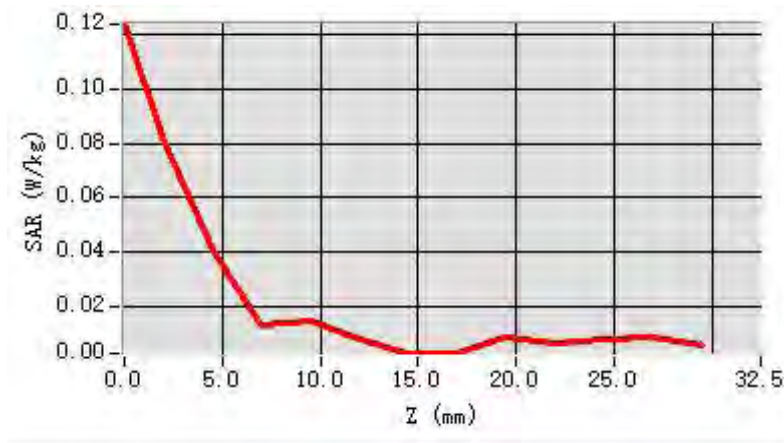
Test Date	2026-03-28
ConvF	1.32
Probe	SN 08/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	7x7x12, dx=4mm, dy=4mm, dz=2mm,
Phantom	Right Cheek
Device Position	Cheek
Band	802.11 n-HT20
Signal	802.11 n-HT20 (Crest factor: 1.0)
Frequency (MHz)	5825
Relative permittivity (real part)	35.70
Conductivity (S/m)	5.30

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

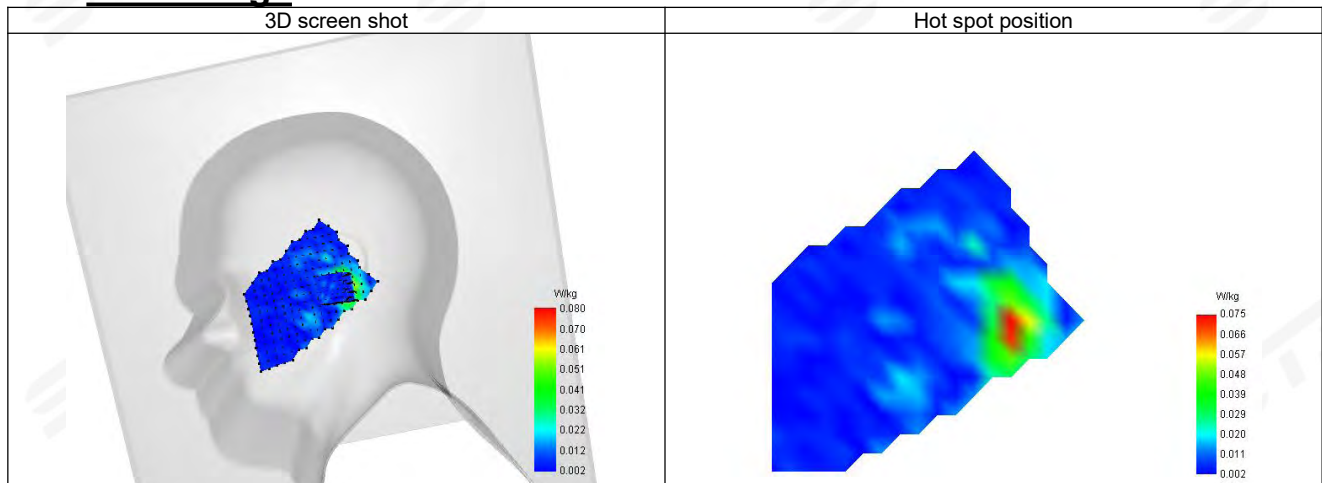
SAR 10g (W/Kg)	0.024
SAR 1g (W/Kg)	0.068
Horizontal validation criteria: minimum distance (mm)	11.313708
Vertical validation criteria: SAR ratio M2/M1 (%)	50.661673

E. Z Axis Scan

Z (mm)	0.00	2.00	4.50	7.00	9.50	12.00	14.50	17.00	19.50	22.00	24.50	27.00
SAR (W/Kg)	0.124	0.080	0.041	0.013	0.014	0.007	0.003	0.003	0.008	0.006	0.008	0.009



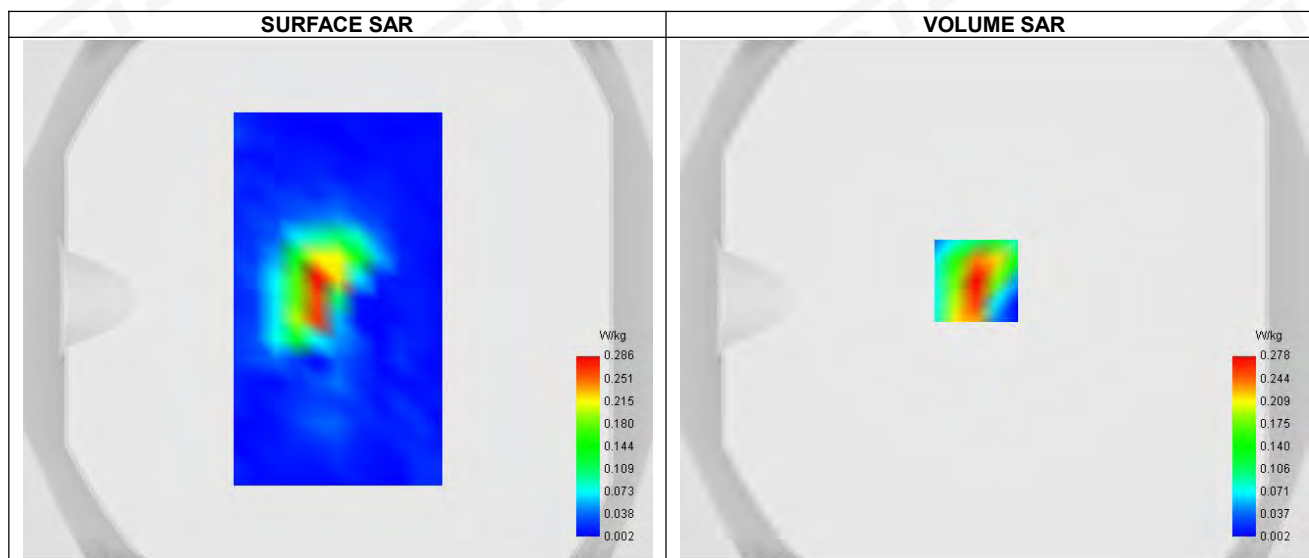
F. 3D Image





Plot 34: DUT: Smart Phone; EUT Model: HPPL61B

Test Date	2026-03-28
ConvF	1.32
Probe	SN 08/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	7x7x12, dx=4mm, dy=4mm, dz=2mm,
Phantom	Validation plane
Device Position	Back Side
Band	802.11 n-HT20
Signal	802.11 n-HT20 (Crest factor: 1.0)
Frequency (MHz)	5825
Relative permittivity (real part)	35.70
Conductivity (S/m)	5.30



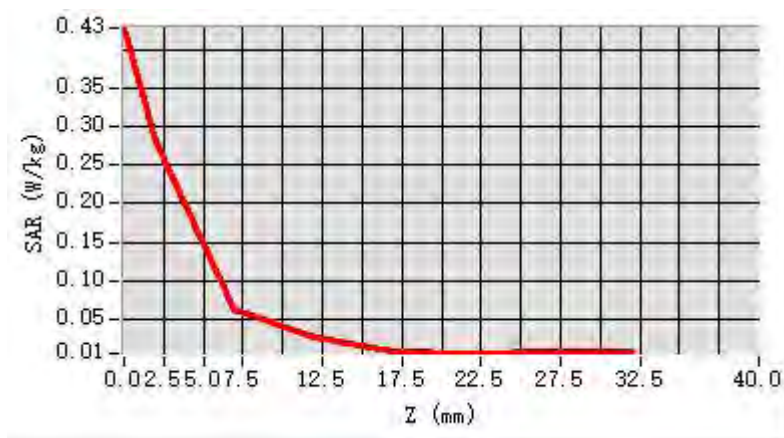
Maximum location: X=-7.00, Y=7.00 ; SAR Peak: 0.50 W/kg

D. SAR 1g & 10g

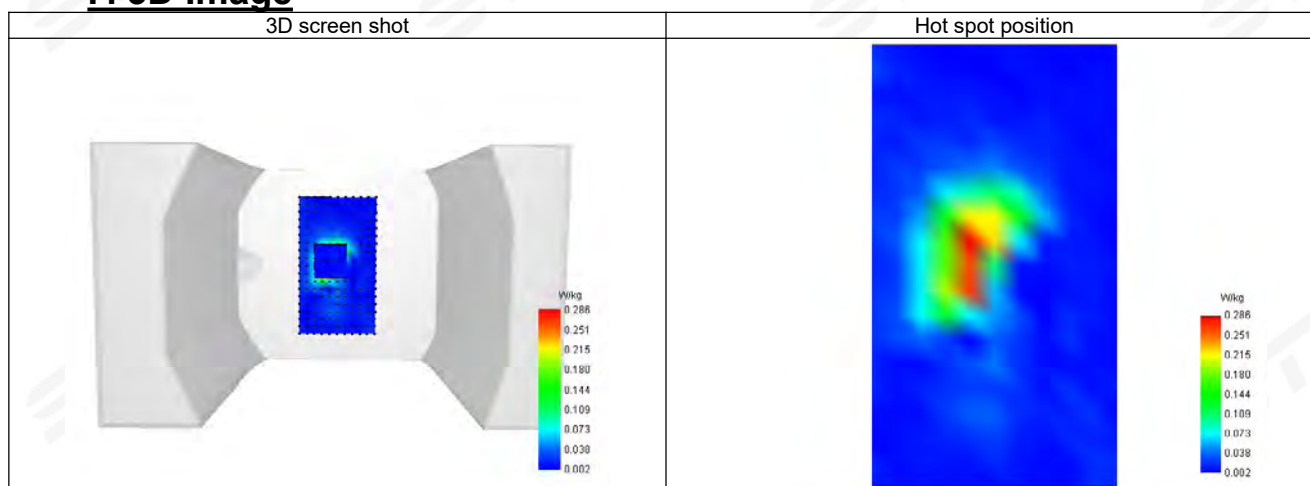
SAR 10g (W/Kg)	0.068
SAR 1g (W/Kg)	0.191
Horizontal validation criteria: minimum distance (mm)	11.313708
Vertical validation criteria: SAR ratio M2/M1 (%)	22.379752

E. Z Axis Scan

Z (mm)	0.00	2.00	7.00	12.00	17.00	22.00	27.00
SAR (W/Kg)	0.427	0.278	0.062	0.027	0.008	0.005	0.009



F. 3D Image





Appendix C. Probe Calibration and Dipole Calibration Report

Refer the appendix Calibration Report.

※※※※END OF THE REPORT※※※※