



SAR Test Report

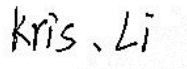
For

Applicant Name: FOXX Development Inc.
Address: 3480 Preston Ridge Road, Suite500, Alpharetta, GA 30005, USA
Brand Name: MIRO, FOXXD, FOXX
EUT Name: Kids Smartwatch
Model Number: W1 SE

Issued By

Company Name: BTF Testing Lab (Shenzhen) Co., Ltd.
Address: 101/201/301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Subdistrict, Bao'an District, Shenzhen, China

Report Number: BTF250723R00201
Test Standards: 47 CFR Part 2.1093 IEEE C95.1-2019 IEEE Std. 1528-2013
FCC ID: 2AQRM-W1SE
Test Conclusion: Pass
Test Date: 2025-08-12 to 2025-08-17
Date of Issue: 2025-08-18

Tested By: 
Kris. Li / Tester
Date of Issue: 2025-08-18
Reviewed By: 
Amenda Zhong / Project Engineer
Date: 2025-08-18
Approved By: 
Ryan.CJ / EMC Manager
Date: 2025-08-18

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Revision History		
Version	Issue Date	Revisions Content
R_V0	2025-08-18	Original
Note:		Once the revision has been made, then previous versions reports are invalid.

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1. Introduction

1.1 Identification of Testing Laboratory

Company Name:	BTF Testing Lab (Shenzhen) Co., Ltd.
Address:	101/201/301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Subdistrict, Bao'an District, Shenzhen, China
Phone Number:	+86-0755-23146130
Fax Number:	+86-0755-23146130

1.2 Identification of the Responsible Testing Location

Test Location:	BTF Testing Lab (Shenzhen) Co., Ltd.
Address:	101/201/301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Subdistrict, Bao'an District, Shenzhen, China
Description:	All measurement facilities used to collect the measurement data are located at 101/201/301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Subdistrict, Bao'an District, Shenzhen, China
FCC Registration Number	518915
Designation Number	CN1409

1.3 Laboratory Condition

Ambient Temperature:	21°C to 25°C
Ambient Relative Humidity:	48% to 59%
Ambient Pressure:	100 kPa to 102 kPa

1.4 Announcement

- (1) The test report reference to the report template version v0.
- (2) The test report is invalid if not marked with the signatures of the persons responsible for preparing, reviewing and approving the test report.
- (3) The test report is invalid if there is any evidence and/or falsification.
- (4) This document may not be altered or revised in any way unless done so by BTF and all revisions are duly noted in the revisions section.
- (5) Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.
- (6) The laboratory is only responsible for the data released by the laboratory, except for the part provided by the applicant.

2. Product Information

2.1 Application Information

Company Name:	FOXX Development Inc.
Address:	3480 Preston Ridge Road, Suite500, Alpharetta, GA 30005, USA

2.2 Manufacturer Information

Company Name:	FOXX Development Inc.
Address:	3480 Preston Ridge Road, Suite500, Alpharetta, GA 30005, USA

2.3 Factory Information

Company Name:	FOXX Development Inc.
Address:	3480 Preston Ridge Road, Suite500, Alpharetta, GA 30005, USA

2.4 General Description of Equipment under Test (EUT)

EUT Name	Kids Smartwatch
Under Test Model Name	W1 SE
Sample No.	BTFSN250723001

2.5 Equipment under Test Ancillary Equipment

Ancillary Equipment 1	Rechargeable Li-ion Battery	
	Capacity	770mAh
	Rated Voltage	3.85V

2.6 Technical Information

Network and Wireless connectivity	2G Network GSM850/1900 3G Network WCDMA/HSDPA/HSUPA Band 2/4/5 4G Network TDD LTE Band 2/4/5/7/12/13/17/26/41/66 2.4G WIFI 802.11b, 802.11g, 802.11n(HT20)
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The requirement for the following technical information of the EUT was tested in this report:

Operating Mode	GSM, WCDMA, LTE, WLAN		
Frequency Range	GSM 850	TX: 824 ~ 849 MHz	RX: 869 ~ 894 MHz
	GSM 1900	TX: 1850 ~ 1910 MHz	RX: 1930 ~ 1990 MHz
	WCDMA Band 2	TX: 1850 ~ 1910 MHz	RX: 1930 ~ 1990 MHz
	WCDMA Band 4	TX: 1710 ~ 1755 MHz	RX: 2110 ~ 2155 MHz
	WCDMA Band 5	TX: 824 ~ 849 MHz	RX: 869 ~ 894 MHz
	LTE Band 2	TX: 1850 ~ 1910 MHz	RX: 1930 ~ 1990 MHz
	LTE Band 4	TX: 1710 ~ 1755 MHz	RX: 2110 ~ 2155 MHz
	LTE Band 5	TX: 824 ~ 849 MHz	RX: 869 ~ 894 MHz
	LTE Band 7	TX: 2500 ~ 2570 MHz	RX: 2620 ~ 2690 MHz
	LTE Band 12	TX: 698 ~ 716 MHz	RX: 728 ~ 746 MHz
	LTE Band 13	TX: 777 ~ 787 MHz	RX: 746 ~ 756 MHz
	LTE Band 17	TX: 704 ~ 716 MHz	RX: 734 ~ 746 MHz
	LTE Band 26 part 90	TX: 814.7 ~ 823.3 MHz	RX: 859.7 ~ 868.3 MHz
	LTE Band 26 part 22	TX: 824.7 ~ 848.3 MHz	RX: 869.7 ~ 893.3 MHz
	LTE Band 66	TX: 1710 ~ 1780 MHz	RX: 2110 ~ 2200 MHz
	LTE Band 41	2498.5 ~2687.5 MHz	
	802.11b/g/n(HT20)	2412 ~ 2462 MHz	
Antenna Type	WWAN: PIFA Antenna WIFI: PIFA Antenna		
Hotspot Function	Not Support		
Power Reduction	Not Support		
Exposure Category	General Population/Uncontrolled exposure		
EUT Stage	Portable Device		
Product	Type		
	☐ Production unit		☒ Identical prototype

3. Summary of Test Results

3.1 Test Standards

No.	Identity	Document Title
1	47 CFR Part 2.1093	Radiofrequency radiation exposure evaluation: portable devices
2	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
3	IEEE C95.1-2019	IEEE Standard for Safety Levels with Respect to Human Exposure to Electric, Magnetic, and Electromagnetic Fields, 0 Hz to 300 GHz
4	KDB447498 D04	Interim General RF Exposure Guidance v01
5	KDB865664 D01	SAR measurement 100MHz to 6GHz v01r04
6	KDB865664 D02	RF Exposure Reporting v01r02
7	KDB941225 D01	3G SAR Procedures v03r01
8	KDB941225 D05	SAR for LTE Devices v02r05
9	KDB248227 D01	802.11 Wi-Fi SAR v02r02
10	KDB648474 D04	Handset SAR v01r03
11	KDB690783 D01	SAR Listings on Grant v01r03

3.2 Device Category and SAR Limit

This device belongs to portable device category because its radiating structure is allowed to be used within 20 centimeters of the body of the user. Limit for General Population/Uncontrolled exposure should be applied for this device, it is 1.6 W/kg as averaged over any 1 gram of tissue.

Body Position	SAR Value (W/Kg)	
	General Population/ Uncontrolled Exposure	Occupational/ Controlled Exposure
Whole-Body SAR (averaged over the entire body)	0.08	0.4
Partial-Body SAR (averaged over any 1 gram of tissue)	1.60	8.0
SAR for hands, wrists, feet and ankles (averaged over any 10 grams of tissue)	4.0	20.0

NOTE:

General Population/Uncontrolled Exposure: Locations where there is the exposure of individuals who have no knowledge or control of their exposure. General population/uncontrolled exposure limits are applicable to situations in which the general public may be exposed or in which persons who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure. Members of the general public would come under this category when exposure is not employment- related; for example, in the case of a wireless transmitter that exposes persons in its vicinity.

Occupational/Controlled Exposure: Locations where there is exposure that may be incurred by persons who are aware of the potential for exposure. In general, occupational/controlled exposure limits are applicable to situations in which persons are exposed as a consequence of their employment, who have been made fully aware of the potential for exposure and can exercise control over their exposure. This exposure category is also applicable when the exposure is of a transient nature due to incidental passage through a location where the exposure levels may be higher than the general population/uncontrolled limits, but the exposed person is fully aware of the potential for exposure and can exercise control over his or her exposure by leaving the area or by some other appropriate means.

3.3 Test Result Summary

The maximum results of Specific Absorption Rate (SAR) found during test as bellows:

<Highest Reported standalone SAR Summary>

Frequency Band		Maximum Reported SAR (W/kg) 1g	Maximum Reported SAR (W/kg) 10g
		Next-to-mouth SAR (Separation 10 mm)	Wrist-worn SAR (Separation 0 mm)
WWAN	GSM 850	0.132	0.261
	GSM 1900	0.130	0.277
	WCDMA Band 2	0.216	0.725
	WCDMA Band 4	0.521	1.344
	WCDMA Band 5	0.086	0.242
	LTE FDD Band 2	0.124	0.644
	LTE FDD Band 4	0.566	1.034
	LTE FDD Band 5	0.074	0.189
	LTE FDD Band 7	0.655	1.631
	LTE FDD Band 12	0.068	0.131
	LTE FDD Band 13	0.103	0.174
	LTE FDD Band 17	0.049	0.105
	LTE FDD Band 26 Part 90	0.067	0.130
	LTE FDD Band 26 Part 22	0.111	0.246
	LTE FDD Band 41	0.111	0.260
	LTE FDD Band 66	0.621	1.386
WLAN	2.4G WIFI	0.108	0.106
Limits (W/kg)		1.6	4.0
Test Verdict		Pass	

This device is in compliance with Specific Absorption Rate(SAR) for general population/uncontrolled exposure limits (1.6 W/kg) specified in FCC47 CFR part 2(2.1093) and ANSI/IEEE C95.1-2019, and had been tested in accordance with the measurement methods and procedures specified in IEEE Std. 1528-2013.

<Highest Reported Simultaneous SAR>

Exposure Position	Simultaneous Configuration	Highest Reported Simultaneous Transmission SAR (W/kg)	Limit (W/kg)	Verdict
Next-to-mouth SAR (Separation 10 mm)	LTE Band 7 + 2.4G WIFI	0.763	1.6	Pass
Wrist-worn SAR (Separation 0 mm)	LTE Band 7 + 2.4G WIFI	1.737	4.0	Pass

3.4 Test Uncertainty

3.4.1 Measurement uncertainty evaluation for SAR test

Measurement uncertainty evaluation for SAR test (450MHz to 6GHz)

Uncertainty Component	Tol (+-%)	Prob. Dist.	Div.	Unc. $u(x_i)=a(x_i)/q_i$	Ci (1g)	Ci (10g)	1g Ui (+-%)	10 g Ui (+-%)	Vi veff
Measurement System									
Probe calibration	14	N (k = 2)	2	7.00	1	1	7.00	7.00	∞
Probe calibration drift	4	R	$\sqrt{3}$	2.31	1	1	2.31	2.31	∞
Probe linearity	4.7	R	$\sqrt{3}$	2.71	1	1	2.71	2.71	∞
detection limit	1	R	$\sqrt{3}$	0.58	1	1	0.58	0.58	∞
Probe isotropy	3.5	R	$\sqrt{3}$	2.02	0.71	0.71	1.43	1.43	∞
Hemispherical Isotropy	5.9	N	1	5.90	0.71	0.71	4.19	4.19	∞
Boundary effect	1	R	1.73	0.58	1	1	0.58	0.58	∞
Integration time	1.4	R	1.73	0.81	1	1	0.81	0.81	∞
Response time	0	R	1.73	0.00	1	1	0.00	0.00	∞
Readout electronics	0.5	N	1	0.50	1	1	0.50	0.50	∞
RF ambient and noise	3	R	$\sqrt{3}$	1.73	1	1	1.73	1.73	∞
Probe positioning errors	3.28	N	1	3.28	0.33	0.33	1.08	1.08	∞
Data processing errors	2.3	R	1	1.33	1	1	1.33	1.33	∞
Conductivity measurement	4.07	N	1	2.35	0.79	0.77	1.86	1.81	∞
Permittivity measurement	5.06	N	1	2.92	0.23	0.26	0.67	0.76	∞
Liquid Conductivity - Temperature Uncertainty	2.5	R	1	1.44	0.79	0.77	1.14	1.11	∞
Liquid Permittivity - Temperature Uncertainty	2.5	R	$\sqrt{3}$	1.44	0.23	0.26	0.33	0.38	∞
Shell permittivity	2.9	R	$\sqrt{3}$	1.67	0.25	0.25	0.42	0.42	∞
Repeatability of positioning the DUT or source against the phantom	2.7	N	1	2.70	2	2	5.40	5.40	∞
Uncertainty in accepted power	3	R	1	3.00	1	1	3.00	3.00	∞
Effect of operating mode on probe sensitivity	2.3	R	$\sqrt{3}$	1.33	1	1	1.33	1.33	∞
Variation in SAR due to drift in output of DUT	2.2	N	1	2.20	1	1	2.20	2.20	∞
Phantom deviation from target (ϵ' , σ)	1.9	N	1	1.90	1	1	1.90	1.90	∞
SAR scaling	0	R	$\sqrt{3}$	0.00	1	1	0.00	0.00	∞
Probe calibration	14	N (k = 2)	2	7.00	1	1	7.00	7.00	∞
Combined uncertainty	/						11.94	11.94	
Expanded Uncertainty (95% Confidence interval)	/						23.89	23.88	

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

3.4.2 Measurement uncertainty evaluation for system check

Uncertainty Component	Tol (+-%)	Prob. Dist.	Div.	Unc. $u(x_i)=a(x_i)/q_i$	Ci (1g)	Ci (10 g)	1g Ui (+-%)	10 g Ui (+-%)	Vi veff
Measurement System									
Probe calibration	14	N (k = 2)	2	7.00	1	1	7.00	7.00	∞
Probe calibration drift	4	R	1.73	2.31	1	1	2.31	2.31	∞
Probe linearity	4.7	R	1.73	2.72	1	1	2.72	2.72	∞
Detection limit	1	R	1.73	0.58	1	1	0.58	0.58	∞
Axial Isotropy	3.5	R	1.73	2.02	1	1	2.02	2.02	∞
Hemispherical Isotropy	5.9	R	1.73	3.41	0.71	0.71	2.42	2.42	∞
Boundary effect	1	R	1.73	0.58	0.71	0.71	0.41	0.41	∞
Integration time	1.4	R	1.73	0.81	1	1	0.81	0.81	∞
Response time	0	R	1.73	0.00	1	1	0.00	0.00	∞
Readout electronics	0.5	N	1	0.50	1	1	0.50	0.50	∞
Noise	3	R	1.73	1.73	1	1	1.73	1.73	∞
Reflections	3	R	1.73	1.73	1	1	1.73	1.73	∞
Positioner Mechanical Tolerance	3.28	R	1.73	1.90	0.33	0.33	0.63	0.63	∞
Positioning with respect to Phantom Shell	3.28	R	1.73	1.90	0.33	0.33	0.63	0.63	∞
Data processing errors	2.3	R	1.73	1.33	1	1	1.33	1.33	∞
Conductivity measurement	4.07	N	1	4.07	0.79	0.77	3.22	3.13	∞
Permittivity measurement	5.06	N	1	5.06	0.23	0.26	1.16	1.32	∞
Liquid Conductivity - Temperature Uncertainty	2.5	R	1.73	1.45	0.79	0.77	1.14	1.11	∞
Liquid Permittivity - Temperature Uncertainty	2.5	R	1.73	1.45	0.23	0.26	0.33	0.38	∞
Shell permittivity	2.9	R	1.73	1.68	0.25	0.25	0.42	0.42	∞
Distance between the radiating element of the DUT and the phantom medium	2.7	N	1	2.70	2	2	5.40	5.40	∞
Deviation of experimental antennas	4.5	N	1.73	2.60	1	1	2.60	2.60	∞
Other uncertainty contributions	2	R	1	2.00	1	1	2.00	2.00	∞
Uncertainty in accepted power	3	R	1.73	1.73	1	1	1.73	1.73	∞
Phantom deviation from target (ϵ', σ)	1.9	N	1	1.90	1	0.87	1.90	1.65	∞
$u(\Delta SAR)$	/						11.89	11.85	
Expanded uncertainty (95% confidence interval)	/						23.79	23.70	

4. Measurement System

4.1 Specific Absorption Rate (SAR) Definition

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:

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

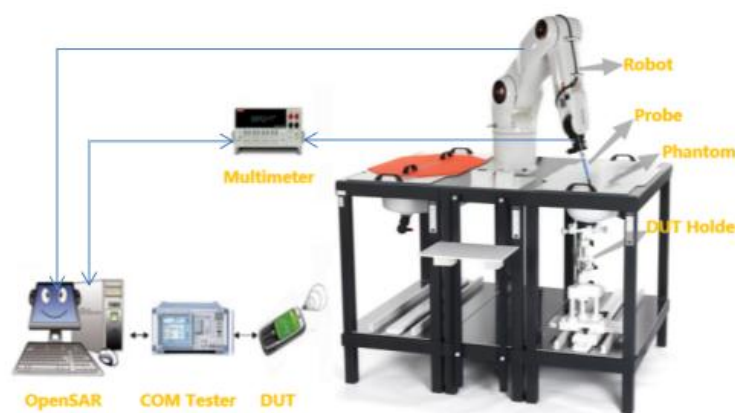
SAR is expressed in units of Watts per kilogram (W/kg) SAR measurement can be related to the electrical field in the tissue by

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

Where: σ is the conductivity of the tissue,
 ρ is the mass density of the tissue and E is the RMS electrical field strength.

4.2 MVG SAR System

4.2.1 SAR system diagram



4.2.2 Robot



A standard high precision 6-axis robot (Denso) with teaches pendant with Scanning System

- It must be able to scan all the volume of the phantom to evaluate the tridimensional distribution of SAR.
- Must be able to set the probe orthogonal of the surface of the phantom ($\pm 30^\circ$).
- Detects stresses on the probe and stop itself if necessary to keep the integrity of the probe.

4.2.3 E-Field Probe

For the measurements, the Specific Dosimetric SSE2 E-Field Probe with following specifications is used:

- Dynamic range: 0.01-100 W/kg
- Tip diameter: 2mm for SSE2
- Distance between probe tip and sensor centre: 1mm for SSE2
- Distance between sensor centre and the inner phantom surface: 2mm for $f \geq 4\text{GHz}$.
- Probe linearity: $<0.25\text{dB}$.
- Axial Isotropy: $<0.25\text{dB}$.
- Spherical Isotropy: $<0.50\text{dB}$.
- Calibration range: 150 to 6000 MHz for head & body simulating liquid
- Angle between probe axis (evaluation axis) and surface normal line: less than 20° .



4.2.4 Phantoms

SAM Phantom

For the measurements the Specific Anthropomorphic Mannequin (SAM) defined by the IEEE SCC-34/SC2 group is used. The probe scanning of the E-Field is done in the 2 halves of the normalized head. The normalized shape of the phantom corresponds to the dimensions of 90% of an adult head size. It enables the dosimetric evaluation of left and right-hand phone usage and includes an additional flat phantom part for the simplified body performance check. The phantom set-up includes a cover, which prevents the evaporation of the liquid.



SAM Phantom

The thickness of the phantom amounts to $2\text{ mm} \pm 0.2\text{ mm}$. The materials for the phantom do not affect the radiation of the device under test (DUT) : $\epsilon_r' < 5$
The head is filled with tissue simulating liquid. The hand do not have to be modeled.

TWIN SAM phantom

	Mechanical	Electrical	
Overall thickness	$2 \pm 0.2\text{ mm}$ (except ear area)	Relative permittivity	3.4
Dimensions	1000 mm(L) x 500 mm(W) x 200 mm(H)	Loss tangent	0.02
Maximum volume	27 L		
Material	Fiberglass based		

ELLIPTICAL Phantom

The phantom is for Body performance check filled with tissue-equivalent liquid to a depth of at least 150 mm, whose shell material is resistant to damage or reaction with tissue-equivalent liquid chemicals.



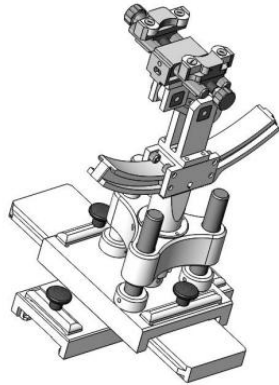
ELLI Phantom

The shape of the phantom is an ellipse with length $600\text{ mm} \pm 5\text{ mm}$ and width $400\text{ mm} \pm 5\text{ mm}$.
The phantom shell is made of low-loss and low-permittivity material, having loss tangent $\tan \delta \leq 0.05$ and relative permittivity:
 $\epsilon_r' \leq 5$ for $f \leq 3\text{ GHz}$
 $3 \leq \epsilon_r' \leq 5$ for $f > 3\text{ GHz}$
The thickness of the bottom-wall of the flat phantom is 2.0 mm with a tolerance of $\pm 0.2\text{ mm}$.

Technical & mechanical characteristics

Shell thickness	$2\text{ mm} \pm 0.2\text{ mm}$
Filling volume	25 L
Dimensions	600 mm x 400 mm x 200 mm
Permittivity	4.4
Loss tangent	0.017

4.2.5 Device Holder



System Material	Permittivity	Loss tangent
Delrin	3.7	0.005

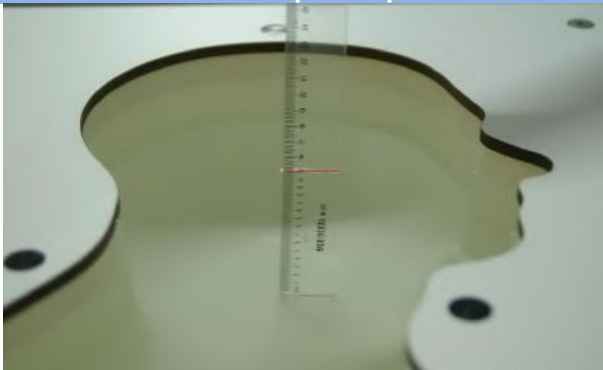
(The positioning system allows obtaining cheek and tilting position with a very good accuracy. In compliance with CENELEC, the tilt angle uncertainty is lower than 1°.)

System Material	Permittivity	Loss tangent
PMMA	2.9	0.028

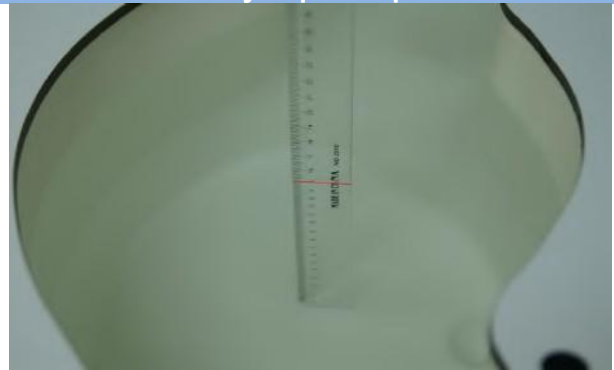
4.2.6 Simulating Liquid

For SAR measurement of the field distribution inside the phantom, the phantom must be filled with homogeneous tissue simulating liquid to a depth of at least 15 cm. For head SAR testing, the liquid height from the ear reference point (ERP) of the phantom to the liquid top surface is larger than 15 cm. For body SAR testing, the liquid height from the center of the flat phantom to the liquid top surface is larger than 15 cm. The nominal dielectric values of the tissue simulating liquids in the phantom and the tolerance of 5%.

Head Liquid Depth



Body Liquid Depth



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

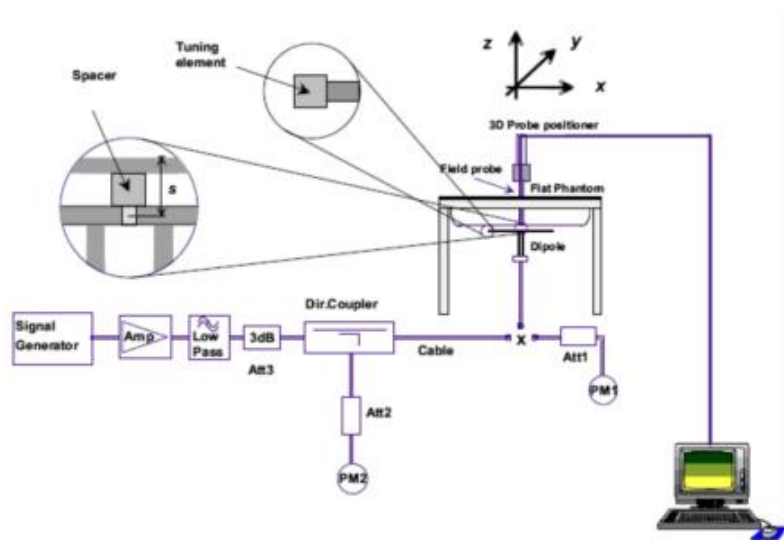
Head (Reference IEEE1528)								
Frequency (MHz)	Water (%)	Sugar (%)	Cellulose (%)	Salt (%)	Preventol (%)	DGBE (%)	Conductivity σ (S/m)	Permittivity ϵ
750	41.1	57.0	0.2	1.4	0.2	0	0.89	41.9
835	40.3	57.9	0.2	1.4	0.2	0	0.90	41.5
900	40.3	57.9	0.2	1.4	0.2	0	0.97	41.5
1800, 1900, 2000	55.2	0	0	0.3	0	44.5	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

5. System Verification

5.1 Purpose of System Check

The system performance check verifies that the system operates within its specifications. System and operator errors can be detected and corrected. It is recommended that the system performance check be performed prior to any usage of the system in order to guarantee reproducible results. The system performance check uses normal SAR measurements in a simplified setup with a well characterized source. The setup was selected to give a high sensitivity to all parameters that might fail or vary over time. The system check does not intend to replace the calibration of the components, but indicates situations where the system uncertainty is exceeded due to drift or failure.

5.2 System Check Setup



6. TEST POSITION CONFIGURATIONS

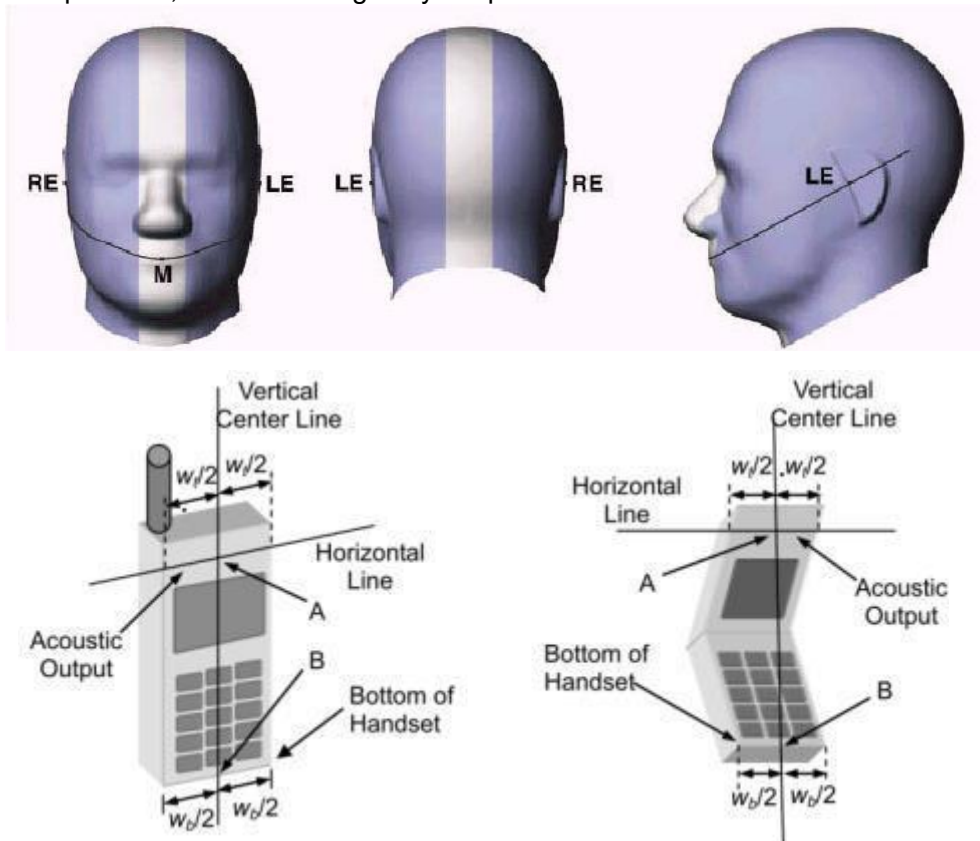
According to KDB 648474 D04 Handset, handsets are tested for SAR compliance in head, body-worn accessory and other use configurations described in the following subsections.

6.1 Head Exposure Conditions

Head exposure is limited to next to the ear voice mode operations. Head SAR compliance is tested according to the test positions defined in IEEE Std 1528-2013 using the SAM phantom illustrated as below.

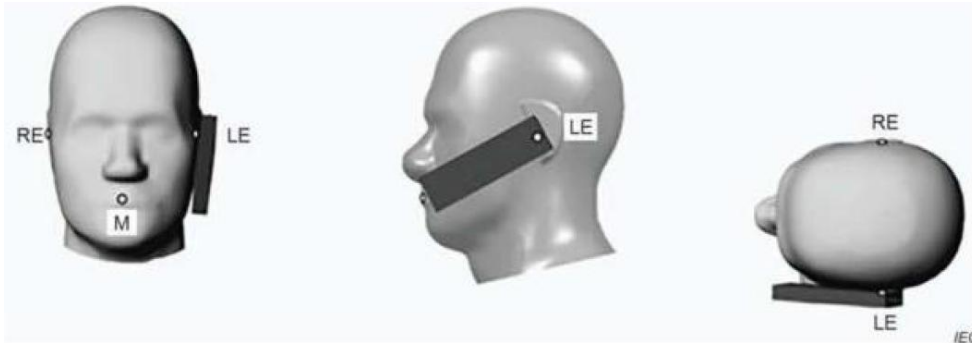
6.1.1 Two Imaginary Lines on the Handset

- The vertical center line 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 bottom of the handset.
- The horizontal line is perpendicular to the vertical center line and passes through the center of the acoustic output. The horizontal line is also tangential to the face of the handset at point A.
- 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 center line is not necessarily parallel to the front face of the handset, especially for clamshell handsets, handsets with flip covers, and other irregularly shaped handsets.



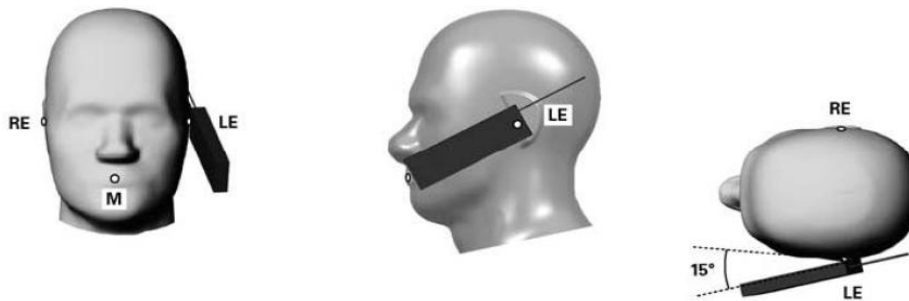
6.1.2 Two Imaginary Lines on the Handset

- 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 three 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.
- 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 the 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.



6.1.3 Titled Position

- To position the device in the “cheek” position described above.
- While maintaining the device 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 contact with the ear is lost.

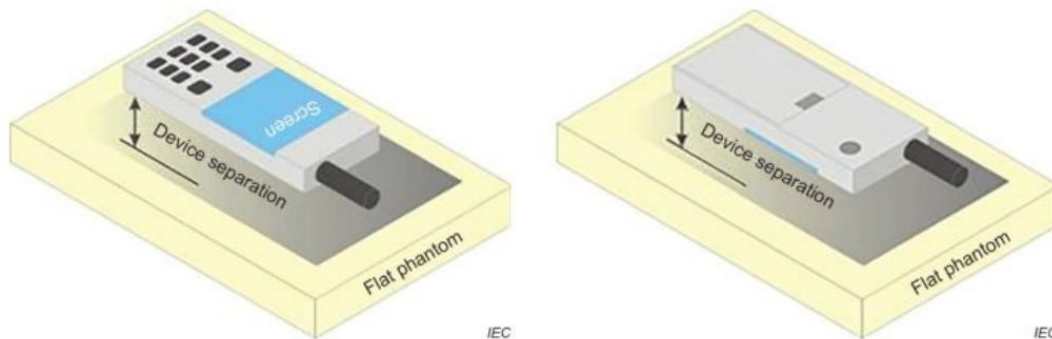


6.2 Body-worn Position Conditions

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 447498 are used to test for body-worn accessory SAR compliance, without a headset connected to it. This enables the test results for such configuration to be compatible with that required for hotspot mode when the body-worn accessory test separation distance is greater than or equal to that required for hotspot mode. When the reported SAR for a body-worn accessory.

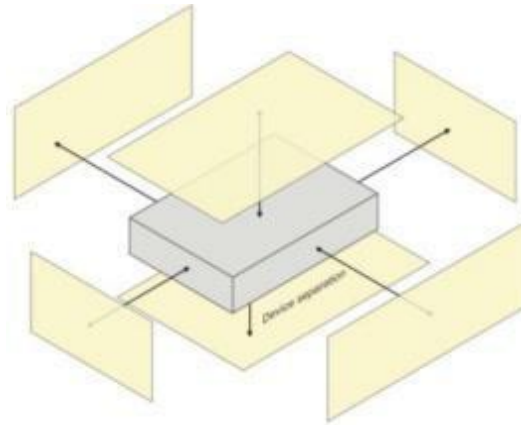
Body-worn accessories that do not contain metallic or conductive components may be tested according to worst-case exposure configurations, typically according to the smallest test separation distance required for the group of body-worn accessories with similar operating and exposure characteristics. All body-worn accessories containing metallic components are tested in conjunction with the host device.

Body-worn accessory SAR compliance is based on a single minimum test separation distance for all wireless and operating modes applicable to each body-worn accessory used by the host, and according to the relevant voice and/or data mode transmissions and operations. If a body-worn accessory supports voice only operations in its normal and expected use conditions, testing of data mode for body-worn compliance is not required. A conservative minimum test separation distance for supporting off-the-shelf body-worn accessories that may be acquired by users of consumer handsets is used to test for body-worn accessory SAR compliance. This distance is determined by the handset manufacturer, according to the requirements of Supplement C 01-01. Devices that are designed to operate on the body of users using lanyards and straps, or without requiring additional body-worn accessories, will be tested using a conservative minimum test separation distance ≤ 5 mm to support compliance.



6.3 Hotspot Mode Exposure Position Conditions

For handsets that support hotspot mode operations, with wireless router capabilities and various web browsing functions, the relevant hand and body exposure conditions 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 surfaces and edges with a transmitting antenna located within 25 mm from that surface or edge. When the form factor of a handset is smaller than 9 cm x 5 cm, a test separation distance of 5 mm (instead of 10 mm) is required for testing hotspot mode. When the separation 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).



6.4 Product Specific 10g Exposure Consideration

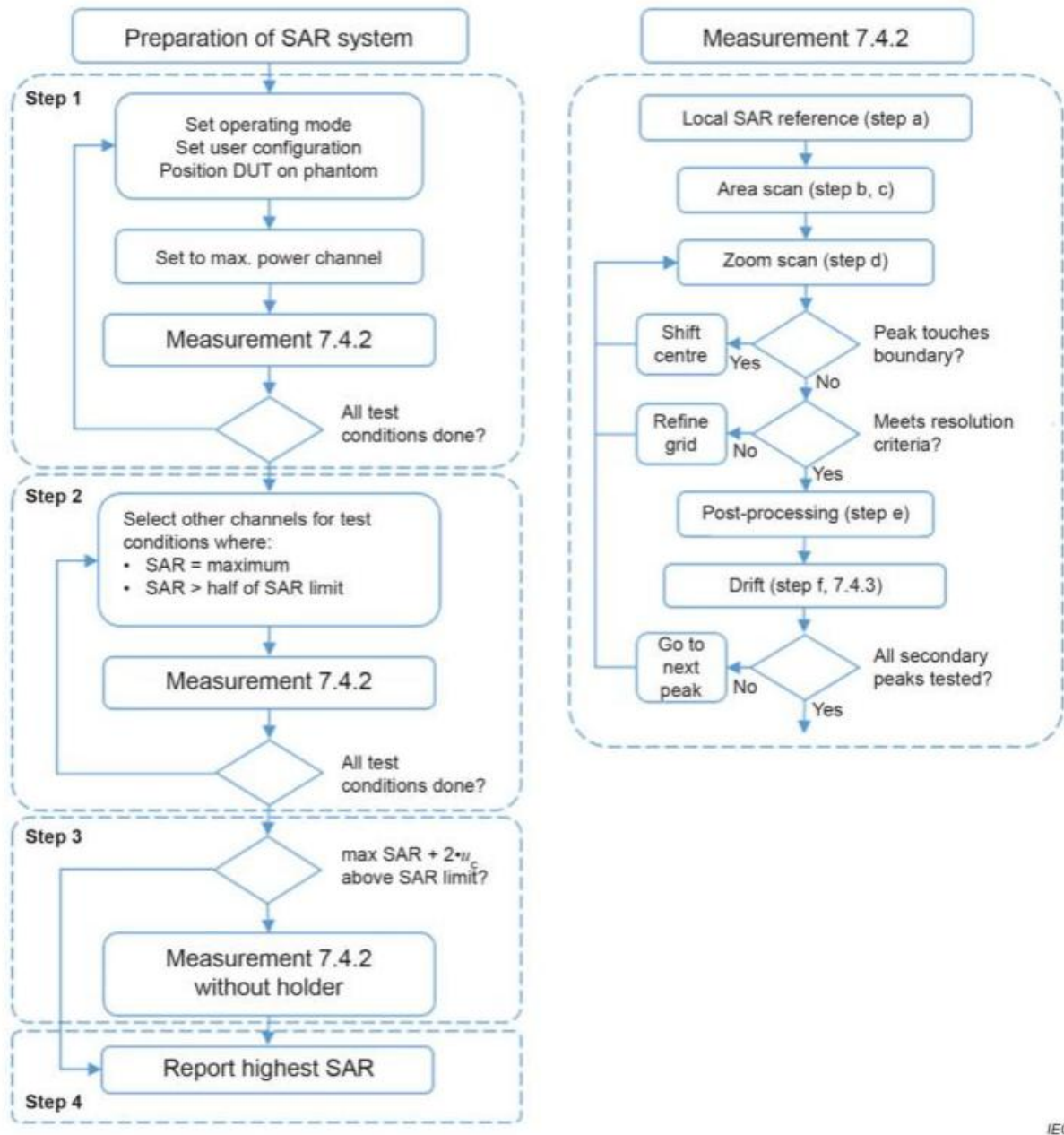
According with FCC KDB 648474 D04, for smart phones with a display diagonal dimension > 15.0 cm or an overall diagonal dimension > 16.0 cm that provide similar mobile web access and multimedia support found in mini-tablets or UMPC mini-tablets that support voice calls next to the ear, unless it is confirmed otherwise through KDB inquiries, the following phablet procedures should be applied to evaluate SAR compliance for each applicable wireless modes and frequency band. Devices marketed as phablets, regardless of form factors and operating characteristics must be tested as a phablet to determine SAR compliance;

The UMPC mini-tablet procedures must also be applied to test the SAR of all surfaces and edges with an antenna located at ≤ 25 mm from that surface or edge, in direct contact with a flat phantom, for 10-g extremity SAR according to the body-equivalent tissue dielectric parameters in KDB 865664 to address interactive hand use exposure conditions. The UMPC mini-tablet 1-g SAR at 5 mm is not required. When hotspot mode applies, 10-g extremity SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR > 1.2 W/kg.

7. Measurement Procedure

7.1 Measurement Process Diagram

Body SAR



IEC

7.2 SAR Scan General Requirement

Probe boundary effect error compensation is required for measurements with the probe tip closer than half a probe tip diameter to the phantom surface. Both the probe tip diameter and sensor offset distance must satisfy measurement protocols; to ensure probe boundary effect errors are minimized and the higher fields closest to the phantom surface can be correctly measured and extrapolated to the phantom surface for computing 1 g SAR. Tolerances of the post-processing algorithms must be verified by the test laboratory for the scan resolutions used in the SAR measurements, according to the reference distribution functions specified in IEEE Std 1528-2013.

			≤3GHz	>3GHz
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface			5±1 mm	½ ⋅ δ ⋅ ln(2)±0.5 mm
Maximum probe angle from probe axis to phantom surface normal at the measurement location			30°±1°	20°±1°
Maximum area scan spatial resolution: Δx Area , Δy Area			≤ 2 GHz: ≤ 15 mm 2 – 3 GHz: ≤ 12 mm	3–4 GHz: ≤ 12 mm 4 – 6 GHz: ≤ 10 mm
			When the x or y dimension of the test device, in the measurement plane orientation, is smaller than the above, the measurement resolution must be ≤ the corresponding x or y dimension of the test device with at least one measurement point on the test device.	
Maximum zoom scan spatial resolution: Δx Zoom , Δy Zoom			≤ 2 GHz: ≤ 8 mm 2 –3 GHz: ≤ 5 mm*	3–4 GHz: ≤ 5 mm* 4 – 6 GHz: ≤ 4 mm*
Maximum zoom scan spatial resolution, normal to phantom surface	uniform grid: Δz Zoom (n)		≤ 5 mm	3–4 GHz: ≤ 4 mm
				4–5 GHz: ≤ 3 mm
				5–6 GHz: ≤ 2 mm
	graded grid	Δz Zoom (1): between 1st two points closest to phantom surface	≤ 4 mm	3–4 GHz: ≤ 3 mm
				4–5 GHz: ≤ 2.5 mm
				5–6 GHz: ≤ 2 mm
		Δz Zoom (n>1): between subsequent points		≤ 1.5⋅Δz Zoom (n-1)
Minimum zoom scan volume	x, y, z		≥30 mm	3–4 GHz: ≥ 28 mm
				4–5 GHz: ≥ 25 mm
				5–6 GHz: ≥ 22 mm
Note:				
1. δ is the penetration depth of a plane-wave at normal incidence to the tissue medium; see draft standard IEEE P1528- 2011 for details.				
2. * When zoom scan is required and the reported SAR from the area scan based 1 g SAR estimation procedures of KDB				
447498 is ≤ 1.4 W/kg, ≤ 8 mm, ≤ 7 mm and ≤ 5 mm zoom scan resolution may be applied, respectively, for 2 GHz to 3GHz, 3 GHz to 4 GHz and 4 GHz to 6 GHz.				

7.3 Measurement Procedure

The following steps are used for each test position

- a. 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
- b. Measurement of the local E-field value at a fixed location. This value serves as a reference value for calculating a possible power drift.
- c. 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.
- d. 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.

7.4 Area & Zoom Scan Procedure

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.

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.

8. Conducted RF Output Power

8.1 GSM

Mode: GSM850		Maximum Tune-up(dBm)	Burst Average Power (dBm)			Division Factors	Frame-Average Power (dBm)		
			CH128	CH190	CH251		CH128	CH190	CH251
			824.2MHz	836.6MHz	848.8MHz		824.2MHz	836.6MHz	848.8MHz
GSM		31.50	31.32	31.15	31.12	-9.03	22.29	22.12	22.09
GPRS (GMSK)	1Tx slot	31.50	31.42	31.12	31.06	-9.03	22.39	22.09	22.03
	2Tx slots	29.50	29.39	29.15	28.93	-6.02	23.37	23.13	22.91
	3Tx slots	28.00	27.50	27.28	27.06	-4.26	23.24	23.02	22.80
	4Tx slots	25.50	25.33	25.13	24.91	-3.01	22.32	22.12	21.90
EGPRS (8PSK)	1Tx slot	27.00	26.55	26.40	26.04	-9.03	17.52	17.37	17.01
	2Tx slots	25.50	25.34	25.12	24.89	-6.02	19.32	19.10	18.87
	3Tx slots	23.00	22.76	22.66	22.20	-4.26	18.50	18.40	17.94
	4Tx slots	21.00	20.76	20.37	20.15	-3.01	17.75	17.36	17.14
Mode: GSM1900		Maximum Tune-up(dBm)	Burst Average Power (dBm)			Division Factors	Frame-Average Power (dBm)		
			CH512	CH661	CH810		CH512	CH661	CH810
			1850.2MHz	1880.0MHz	1909.8MHz		1850.2MHz	1880.0MHz	1909.8MHz
GSM		28.50	28.18	28.04	27.90	-9.03	19.15	19.01	18.87
GPRS (GMSK)	1Tx slot	29.00	28.21	28.57	28.42	-9.03	19.18	19.54	19.39
	2Tx slots	26.00	25.87	25.69	25.54	-6.02	19.85	19.67	19.52
	3Tx slots	24.50	24.28	24.09	23.95	-4.26	20.02	19.83	19.69
	4Tx slots	22.50	22.07	21.87	21.73	-3.01	19.06	18.86	18.72
EGPRS (8PSK)	1Tx slot	26.50	26.06	26.39	26.23	-9.03	17.03	17.36	17.20
	2Tx slots	25.50	24.29	25.01	24.84	-6.02	18.27	18.99	18.82
	3Tx slots	24.00	22.56	23.55	23.44	-4.26	18.30	19.29	19.18
	4Tx slots	21.50	21.16	20.78	20.41	-3.01	18.15	17.77	17.40
Note: 1) Division Factors To average the power, the division factor is as follows: 1Tx-slot = 1 transmit time slot out of 8 time slots=> conducted power divided by (8/1) => -9.03dB 2Tx-slots = 2 transmit time slots out of 8 time slots=> conducted power divided by (8/2) => -6.02dB 3Tx-slots = 3 transmit time slots out of 8 time slots=> conducted power divided by (8/3) => -4.26dB 4Tx-slots = 4 transmit time slots out of 8 time slots=> conducted power divided by (8/4) => -3.01dB									

8.2 WCDMA

Mode		Maximum Tune-up(dBm)	WCDMA Band II		
			Conducted Power (dBm)		
			CH9262	CH9400	CH9538
RMC 12.2K		22.00	1852.4	1880.0	1907.6
HSDPA	Subtest-1	22.00	21.76	21.67	21.63
	Subtest-2	22.00	21.96	21.86	21.72
	Subtest-3	22.00	21.95	21.86	21.71
	Subtest-4	22.00	21.99	21.86	21.71
HSUPA	Subtest-1	20.00	21.99	21.82	21.67
	Subtest-2	20.00	19.75	19.35	19.02
	Subtest-3	20.00	19.76	19.79	19.52
	Subtest-4	20.00	19.51	19.57	19.50
	Subtest-5	20.00	19.95	19.62	19.21
			19.93	19.56	19.03
Mode		Maximum Tune-up(dBm)	WCDMA Band IV		
			Conducted Power (dBm)		
			CH1312	CH1413	CH1513
RMC 12.2K		22.50	1712.4	1732.6	1752.6
HSDPA	Subtest-1	22.00	22.13	22.05	22.06
	Subtest-2	22.00	21.67	21.61	21.65
	Subtest-3	22.00	21.71	21.63	21.67
	Subtest-4	22.00	21.73	21.63	21.67
HSUPA	Subtest-1	20.00	21.69	21.60	21.63
	Subtest-2	20.00	19.63	19.09	19.38
	Subtest-3	20.00	19.52	19.09	18.92
	Subtest-4	19.50	19.26	19.09	19.38
	Subtest-5	20.00	19.70	19.35	19.37
			19.46	18.91	18.91
Mode		Maximum Tune-up(dBm)	WCDMA Band V		
			Conducted Power (dBm)		
			CH4132	CH4183	CH4233
RMC 12.2K		22.00	826.4	836.6	846.6
HSDPA	Subtest-1	22.50	21.65	21.68	21.70
	Subtest-2	22.50	21.99	22.06	21.88
	Subtest-3	22.50	22.01	22.07	21.89
	Subtest-4	22.50	22.02	22.07	21.89
HSUPA	Subtest-1	20.50	21.99	22.03	21.84
	Subtest-2	20.50	19.91	20.05	19.21
	Subtest-3	20.50	19.53	20.03	19.19
	Subtest-4	20.50	19.80	20.03	19.24
	Subtest-5	20.50	19.79	20.02	19.19
			19.50	20.01	19.18
Per KDB 941225 D01, when the maximum output power and tune-up tolerance specified for production units in a secondary mode is ≤1/2dB higher than the primary mode (RMC12.2kbps) or when the highest reported SAR of the primary mode is scaled by the ratio of specified maximum output power and tune-up tolerance of secondary to primary mode and the adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for the secondary mode.					

8.3 LTE

Band 2

LTE-FDD Band 2				Maximum Tune-up(dBm)	Conducted Power(dBm)			
Bandwidth	Modulation	RB allocation	RB offset		18607	18900	19193	
					1850.7MHz	1880.0MHz	1909.3MHz	
1.4MHz	QPSK	1	0	22.50	22.22	22.01	21.88	
			2	22.50	22.26	22.08	21.99	
			5	22.50	22.20	21.98	21.94	
		3	0	22.50	22.16	22.09	21.99	
			2	22.50	22.23	22.10	21.98	
			3	22.50	22.15	22.02	22.00	
		6	0	21.50	21.14	21.02	20.95	
		16QAM	1	0	21.50	21.35	21.04	20.50
				2	21.50	21.33	21.09	20.47
	5			21.50	21.39	21.01	20.47	
	3		0	21.50	21.38	20.99	20.77	
			2	21.50	21.30	21.02	20.75	
			3	21.50	21.32	20.98	20.78	
	6	0	20.50	20.42	19.95	19.98		
	Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	18615	18900	19185
1851.5MHz						1880.0MHz	1908.5MHz	
3MHz	QPSK	1	0	22.50	22.12	21.93	22.06	
			7	22.50	22.13	21.98	22.01	
			14	22.50	22.21	21.90	21.98	
		8	0	21.50	21.09	21.02	21.01	
			4	21.50	21.05	21.03	21.00	
			7	21.50	21.14	20.98	20.92	
		15	0	21.50	21.15	21.02	20.98	
		16QAM	1	0	22.00	20.63	21.51	21.39
				7	21.50	20.72	21.48	21.39
	14			21.50	20.59	21.41	21.36	
	8		0	21.00	20.37	20.00	20.50	
			4	20.50	20.36	20.12	20.30	
			7	20.50	20.30	20.06	20.26	
	15	0	20.50	20.26	19.97	20.06		
	Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	18625	18900	19175
1852.5MHz						1880.0MHz	1907.5MHz	
5MHz	QPSK	1	0	21.50	21.26	21.02	21.04	
			13	21.50	21.17	21.02	21.02	
			24	21.50	21.16	21.03	21.10	
		12	0	21.50	21.14	21.03	21.11	
			6	21.50	21.12	21.03	21.10	
			13	21.50	21.10	21.03	21.10	
		25	0	21.50	21.09	21.04	21.10	
		16QAM	1	0	21.50	21.08	21.03	21.10
				13	21.50	21.10	21.04	21.09
	24			21.50	21.14	21.04	21.08	
	12		0	21.50	21.20	21.04	21.08	
			6	21.50	21.18	21.04	21.08	
			13	21.50	21.19	21.04	21.08	
	25	0	21.50	21.19	21.05	21.07		

LTE-FDD Band 2				Maximum Tune-up(dBm)	Conducted Power(dBm)		
Bandwidth	Modulation	RB allocation	RB offset		18650	18900	19150
					1855.0MHz	1880.0MHz	1905.0MHz
10MHz	QPSK	1	0	22.50	22.14	22.05	22.12
			25	22.50	22.22	22.09	22.16
			49	22.50	22.08	22.01	22.11
		25	0	21.50	21.26	21.05	21.07
			13	21.50	21.17	21.07	20.97
			25	21.50	21.23	21.06	21.07
	50	0	21.50	21.20	21.13	21.05	
	16QAM	1	0	22.00	21.61	20.60	21.17
			25	22.00	21.60	20.67	21.27
			49	22.00	21.59	20.67	21.20
		25	0	20.50	20.18	20.20	20.15
			13	20.50	20.48	20.13	20.17
			25	20.50	20.22	20.19	20.40
		50	0	20.50	20.47	20.00	20.10
Bandwidth		Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	18675	18900
	1857.5MHz					1880.0MHz	1902.5MHz
15MHz	QPSK	1	0	22.50	22.03	21.94	21.99
			38	22.50	22.11	21.90	22.05
			74	22.50	22.08	21.98	22.03
		36	0	21.50	21.20	20.93	21.06
			18	21.50	21.16	21.07	21.05
			39	21.50	21.12	20.95	20.98
	75	0	21.50	21.17	21.12	21.09	
	16QAM	1	0	21.50	21.28	21.18	21.21
			38	21.50	21.39	21.20	21.21
			74	21.50	21.29	21.23	21.18
		36	0	20.50	20.43	20.10	20.42
			18	20.50	20.19	20.03	20.22
			39	21.00	20.52	20.06	20.38
		75	0	20.50	20.14	19.99	20.14
Bandwidth		Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	18700	18900
	1860.0MHz					1880.0MHz	1900.0MHz
20MHz	QPSK	1	0	22.50	22.22	22.19	22.06
			50	22.50	22.23	22.12	22.17
			99	22.50	22.20	22.12	22.16
		50	0	21.50	21.22	21.08	21.06
			25	21.50	21.21	21.20	21.03
			50	21.50	21.14	21.02	21.03
	100	0	21.50	21.25	21.03	21.02	
	16QAM	1	0	22.00	21.90	21.07	21.03
			50	22.00	21.88	21.08	20.98
			99	22.00	21.82	20.96	21.06
		50	0	20.50	20.46	20.41	20.20
			25	20.50	20.41	20.14	20.39
			50	20.50	20.17	20.07	20.10
		100	0	20.50	20.47	20.08	20.39

Band 4

LTE-FDD Band 4				Maximum Tune-up(dBm)	Conducted Power(dBm)		
Bandwidth	Modulation	RB allocation	RB offset		19957	20175	20393
					1710.7MHz	1732.5MHz	1754.3MHz
1.4MHz	QPSK	1	0	22.50	22.48	22.35	22.38
			2	23.00	22.39	22.58	22.31
			5	23.00	22.50	22.59	22.36
		3	0	23.00	22.52	22.50	22.33
			2	23.00	22.58	22.53	22.32
			3	23.00	22.52	22.50	22.26
		6	0	21.50	21.46	21.37	21.28
	16QAM	1	0	22.00	21.03	21.68	21.50
			2	22.00	21.01	21.61	21.44
			5	22.00	21.01	21.68	21.53
		3	0	22.00	21.30	21.58	21.00
			2	22.00	21.33	21.55	20.92
			3	22.00	21.30	21.56	20.99
		6	0	21.00	20.52	20.63	20.32
Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	19965	20175	20385
					1711.5MHz	1732.5MHz	1753.5MHz
3MHz	QPSK	1	0	23.00	22.55	22.34	22.29
			7	22.50	22.49	22.37	22.31
			14	23.00	22.50	22.40	22.30
		8	0	22.00	21.50	21.34	21.37
			4	22.00	21.54	21.39	21.36
			7	21.50	21.49	21.36	21.32
		15	0	21.50	21.47	21.35	21.34
	16QAM	1	0	22.50	20.95	22.14	21.39
			7	22.50	20.95	22.10	21.38
			14	22.50	20.98	22.08	21.34
		8	0	21.00	20.71	20.57	20.48
			4	21.00	20.71	20.53	20.42
			7	21.00	20.67	20.55	20.51
		15	0	21.00	20.58	20.46	20.32
Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	19976	20175	20375
					1712.5MHz	1732.5MHz	1752.5MHz
5MHz	QPSK	1	0	22.50	22.36	22.41	22.32
			13	23.00	22.40	22.58	22.29
			24	23.00	22.42	22.52	22.30
		12	0	21.50	21.48	21.36	21.24
			6	21.50	21.44	21.39	21.36
			13	21.50	21.48	21.41	21.32
		25	0	21.50	21.46	21.38	21.35
	16QAM	1	0	21.50	21.47	21.27	20.35
			13	22.00	21.50	21.28	20.41
			24	21.50	21.49	21.26	20.43
		12	0	21.00	20.50	20.35	20.76
			6	21.00	20.52	20.27	20.25
			13	21.00	20.50	20.27	20.22
		25	0	21.00	20.57	20.39	20.36

LTE-FDD Band 4				Maximum Tune-up(dBm)	Conducted Power(dBm)					
Bandwidth	Modulation	RB allocation	RB offset		20000	20175	20350			
					1715.0MHz	1732.5MHz	1750.0MHz			
10MHz	QPSK	1	0	23.00	22.44	22.51	22.24			
			25	23.00	22.45	22.58	22.27			
			49	23.00	22.38	22.54	22.26			
		25	0	22.00	21.58	21.40	21.19			
			13	21.50	21.39	21.40	21.21			
			25	22.00	21.53	21.42	21.38			
		50	0	21.50	21.34	21.43	21.28			
			16QAM	1	0	22.00	21.23	21.57	21.55	
					25	22.00	21.18	21.59	21.51	
	49	22.00			21.20	21.59	21.52			
	25	0		21.00	20.73	20.55	20.21			
		13		21.50	21.04	20.57	20.15			
		25		21.00	20.69	20.60	20.23			
	50	0		21.00	20.97	20.56	20.28			
		Bandwidth		Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	20025	20175	20325
								1717.5MHz	1732.5MHz	1747.5MHz
	15MHz	QPSK	1	0	22.50	22.35	22.35	22.28		
				38	22.50	22.29	22.34	22.27		
74				22.50	22.33	22.35	22.26			
36			0	21.50	21.37	21.41	21.23			
			18	21.50	21.41	21.38	21.15			
			39	21.50	21.47	21.37	21.24			
75			0	21.50	21.45	21.32	21.23			
			16QAM	1	0	22.50	21.50	22.13	21.39	
					38	22.50	21.63	22.08	21.46	
74		22.50			21.56	22.19	21.48			
36		0		21.00	20.96	20.34	20.40			
		18		20.50	20.48	20.45	20.43			
		39		21.00	20.52	20.44	20.92			
75		0		21.00	20.47	20.53	20.31			
		Bandwidth		Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	20050	20175	20300
								1720.0MHz	1732.5MHz	1745.0MHz
20MHz		QPSK	1	0	23.00	22.49	22.45	22.56		
				50	23.00	22.56	22.48	22.53		
	99			23.00	22.50	22.32	22.45			
	50		0	21.50	21.42	21.44	21.22			
			25	21.50	21.41	21.37	21.19			
			50	21.50	21.42	21.31	21.18			
	100		0	22.00	21.50	21.36	21.27			
			16QAM	1	0	22.50	22.24	21.83	20.53	
					50	22.50	22.31	21.66	20.64	
	99	22.50			22.23	21.55	21.02			
	50	0		21.00	20.86	20.51	20.79			
		25		21.00	20.48	20.50	20.33			
		50		20.50	20.43	20.48	20.32			
	100	0		21.00	20.54	20.43	20.29			

Band 5

LTE-FDD Band 5				Maximum Tune-up(dBm)	Conducted Power(dBm)			
Bandwidth	Modulation	RB allocation	RB offset		20407	20525	20643	
					824.7MHz	836.5MHz	848.3MHz	
1.4MHz	QPSK	1	0	22.50	21.98	22.01	22.17	
			2	22.50	22.01	22.14	22.02	
			5	22.50	22.07	22.10	21.99	
		3	0	22.50	22.02	21.92	22.11	
			2	22.50	22.11	21.95	22.16	
			3	22.50	22.07	22.03	22.14	
		6	0	21.50	21.08	21.09	21.43	
		16QAM	1	0	21.50	20.59	21.10	21.10
				2	22.00	20.56	21.11	21.55
	5			22.00	20.60	21.15	21.55	
	3		0	21.50	20.81	21.05	20.80	
			2	21.50	20.76	21.10	21.27	
			3	21.50	20.83	21.04	21.35	
	6	0	21.00	20.06	20.27	20.52		
	Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	20415	20525	20635
825.5MHz						836.5MHz	847.5MHz	
3MHz	QPSK	1	0	22.50	22.02	22.02	22.08	
			7	22.50	22.12	22.00	22.08	
			14	22.50	22.04	21.97	22.03	
		8	0	21.50	21.05	21.05	21.11	
			4	21.50	21.17	21.04	21.05	
			7	22.00	20.94	21.05	21.56	
		15	0	21.50	21.10	21.07	21.06	
	16QAM	1	0	22.00	20.60	21.83	21.44	
			7	22.00	20.58	21.85	21.44	
			14	22.00	20.51	21.78	21.77	
		8	0	20.50	20.19	20.21	20.32	
			4	20.50	20.21	20.22	20.30	
			7	21.00	20.61	20.14	20.83	
		15	0	20.50	20.10	20.08	20.16	
		LTE-FDD Band 5				Maximum Tune-up(dBm)	Conducted Power(dBm)	
Bandwidth	Modulation	RB allocation	RB offset	20425	20525		20625	
				826.5MHz	836.5MHz		846.5MHz	
5MHz	QPSK	1	0	22.50	21.95	21.98	22.10	
			13	22.50	21.96	22.04	22.16	
			24	22.50	21.90	22.05	22.01	
		12	0	21.50	21.07	21.16	21.14	
			6	21.50	21.03	21.04	21.08	
			13	21.50	20.98	21.01	21.06	
		25	0	21.50	21.03	21.10	21.03	
	16QAM	1	0	21.50	21.07	21.12	20.19	
			13	21.50	21.01	21.09	20.14	
			24	21.50	21.05	21.10	20.53	
		12	0	20.50	19.97	20.07	20.10	
			6	20.50	20.45	20.19	20.09	
			13	20.50	20.39	20.16	20.02	
		25	0	20.50	20.47	20.11	20.21	

Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	20450	20525	20600
					829.0MHz	836.5MHz	844.0MHz
10MHz	QPSK	1	0	22.00	21.98	21.94	21.94
			25	22.00	21.98	21.99	21.94
			49	22.50	21.96	22.06	21.98
		25	0	21.50	21.01	21.07	20.94
			13	21.50	20.97	21.11	21.08
			25	21.50	20.92	21.02	21.09
		50	0	21.50	21.09	21.10	21.15
			0	22.00	20.83	21.68	21.16
			25	22.00	20.81	21.75	21.28
	16QAM	1	49	22.00	20.69	21.73	21.62
		25	0	21.00	20.60	20.08	20.12
			13	20.50	20.26	20.18	20.14
			25	20.50	20.30	20.19	20.15
		50	0	20.50	20.04	20.14	20.17

Band 7

LTE-FDD Band 7				Maximum Tune-up(dBm)	Conducted Power(dBm)		
Bandwidth	Modulation	RB allocation	RB offset		20775	21100	21425
					2502.5MHz	2535.0MHz	2567.5MHz
5MHz	QPSK	1	0	22.00	21.35	21.63	21.62
			13	22.00	21.37	21.63	21.66
			24	22.00	21.50	21.56	21.60
		12	0	21.00	20.46	20.63	20.89
			6	21.00	20.43	20.64	20.84
			13	21.00	20.42	20.71	20.77
		25	0	21.00	20.43	20.72	20.82
	16QAM	1	0	21.50	20.98	20.08	21.40
			13	21.50	20.97	20.11	21.40
			24	21.50	20.99	20.28	21.46
		12	0	20.00	19.46	19.66	19.87
			6	20.00	19.64	19.67	19.86
			13	20.00	19.67	19.66	19.81
		25	0	20.00	19.56	19.67	19.96
Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	20800	21100	21400
					2505.0MHz	2535.0MHz	2565.0MHz
10MHz	QPSK	1	0	22.00	21.39	21.58	21.66
			25	22.00	21.47	21.67	21.74
			49	22.00	21.43	21.72	21.86
		25	0	21.00	20.48	20.56	20.73
			13	21.00	20.67	20.57	20.77
			25	21.00	20.46	20.61	20.81
		50	0	21.00	20.62	20.62	20.92
	16QAM	1	0	21.50	20.76	21.20	21.46
			25	22.00	20.89	21.22	21.53
			49	22.00	20.70	21.27	21.56
		25	0	20.00	19.68	19.74	19.93
			13	20.00	19.99	19.73	19.94
			25	20.00	19.70	19.80	19.92
		50	0	20.00	19.87	19.77	19.93

LTE-FDD Band 7				Maximum Tune-up(dBm)	Conducted Power(dBm)					
Bandwidth	Modulation	RB allocation	RB offset		20825	21100	21375			
					2507.5MHz	2535.0MHz	2562.5MHz			
15MHz	QPSK	1	0	22.00	21.23	21.56	21.63			
			38	22.00	21.26	21.66	21.73			
			74	22.00	21.36	21.78	21.74			
		38	0	21.00	20.50	20.47	20.84			
			18	21.00	20.42	20.58	20.84			
			39	21.00	20.37	20.70	20.84			
		75	0	21.00	20.34	20.64	20.79			
			16QAM	1	0	21.50	21.14	21.33	21.46	
					38	22.00	21.23	21.39	21.54	
	74	22.00			21.25	21.46	21.52			
	38	0		20.00	19.91	19.79	19.99			
		18		20.00	19.54	19.76	19.94			
		39		20.50	19.53	19.83	20.07			
	75	0		20.00	19.46	19.70	19.87			
		Bandwidth		Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	20850	21100	21350
								2510.0MHz	2535.0MHz	2560.0MHz
	20MHz	QPSK	1	0	22.00	21.32	21.52	21.73		
				50	22.00	21.49	21.64	21.78		
99				22.00	21.46	21.71	21.85			
50			0	21.00	20.44	20.43	20.74			
			25	21.00	20.41	20.67	20.69			
			50	21.00	20.42	20.54	20.88			
100			0	21.00	20.32	20.68	20.71			
			16QAM	1	0	22.00	21.71	21.50	20.93	
					50	22.00	21.65	21.62	20.91	
99		22.00			21.62	21.69	21.06			
50		0		20.00	19.86	19.83	19.93			
		25		20.50	19.42	19.74	20.01			
		50		20.50	19.45	19.80	20.04			
100		0		20.00	19.62	19.73	19.93			

Band 12

LTE-FDD Band 12				Maximum Tune-up(dBm)	Conducted Power(dBm)				
Bandwidth	Modulation	RB allocation	RB offset		23017	23095	23173		
					699.7MHz	707.5MHz	715.3MHz		
1.4MHz	QPSK	1	0	22.50	22.06	22.02	22.05		
			2	22.50	22.17	22.09	21.97		
			5	22.50	22.12	22.09	22.01		
		3	0	22.50	22.09	22.06	22.27		
			2	22.50	22.02	21.99	22.12		
			3	22.50	21.95	22.09	22.13		
		6	0	21.50	21.01	21.02	21.18		
			16QAM	1	0	21.50	20.52	21.19	21.14
					2	21.50	20.56	21.15	21.20
	5	21.50			20.53	21.12	21.16		
	3	0		21.50	20.83	21.05	21.01		
		2		21.50	20.76	21.05	21.08		
		3		21.50	20.79	21.05	21.04		
	6	0		21.00	20.55	20.18	20.49		

Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	23025	23095	23165
					700.5MHz	707.5MHz	714.5MHz
3MHz	QPSK	1	0	22.50	22.04	22.07	22.05
			7	22.50	22.08	22.07	22.08
			14	22.50	22.16	21.99	22.02
		8	0	21.50	21.00	21.08	21.21
			4	21.50	21.07	21.03	21.21
			7	21.50	21.05	20.98	21.14
		15	0	21.50	21.07	21.06	21.02
	16QAM	1	0	22.00	20.87	21.85	21.37
			7	22.00	20.81	21.73	21.33
			14	22.00	20.73	21.65	21.36
		8	0	21.00	20.64	20.57	20.69
			4	21.00	20.60	20.10	20.69
			7	21.00	20.18	20.08	20.67
		15	0	21.00	20.51	20.18	20.50
Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	23035	23095	23155
					701.5MHz	707.5MHz	713.5MHz
5MHz	QPSK	1	0	22.50	21.91	22.07	22.00
			13	22.50	22.02	22.00	22.11
			24	22.50	22.01	22.03	21.99
		12	0	21.50	21.06	21.15	21.48
			6	21.50	21.10	21.02	21.13
			13	21.50	21.07	21.06	21.12
		25	0	21.50	21.09	21.09	21.00
	16QAM	1	0	21.50	21.00	21.02	20.57
			13	21.50	21.06	20.96	20.20
			24	21.50	21.04	20.94	20.21
		12	0	21.00	20.46	20.52	20.47
			6	20.50	20.02	20.11	20.42
			13	20.50	19.99	20.07	20.45
		25	0	21.00	20.10	20.05	20.54
Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	23060	23095	23130
					704.0MHz	707.5MHz	711.0MHz
10MHz	QPSK	1	0	22.50	22.02	21.89	22.13
			25	22.50	22.00	21.97	22.14
			49	22.50	22.02	21.95	22.10
		25	0	21.50	21.01	21.05	21.05
			13	21.50	20.93	21.07	21.11
			25	21.50	21.09	21.08	21.25
		50	0	21.50	20.93	21.02	21.09
	16QAM	1	0	22.00	21.79	21.01	20.87
			25	22.00	21.75	20.99	20.72
			49	22.00	21.70	21.53	20.88
		25	0	20.50	20.12	20.48	20.23
			13	21.00	20.60	20.06	20.32
			25	21.00	20.52	20.11	20.66
		50	0	21.00	20.65	20.25	20.16

Band 13

LTE-FDD Band 13				Maximum Tune-up(dBm)	Conducted Power(dBm)				
Bandwidth	Modulation	RB allocation	RB offset		23205	23230	23255		
					779.5MHz	782.0MHz	784.5MHz		
5MHz	QPSK	1	0	22.50	22.18	22.19	22.04		
			13	22.50	22.11	22.19	22.18		
			24	22.50	22.17	22.27	22.17		
		12	0	21.50	21.05	21.20	21.23		
			6	21.50	21.17	21.28	21.19		
			13	21.50	21.23	21.19	21.29		
		25	0	21.50	21.23	21.22	21.24		
			16QAM	1	0	21.50	21.11	20.23	21.16
					13	21.50	21.18	20.30	21.24
	24	21.50			21.30	20.27	21.23		
	12	0		20.50	20.24	20.39	20.45		
		6		20.50	20.36	20.43	20.45		
		13		20.50	20.40	20.46	20.46		
	25	0		21.00	20.34	20.51	20.52		
		Bandwidth		Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	23230	
								782.0MHz	
	10MHz	QPSK	1	0	22.50	22.10			
				25	22.50	22.15			
49				22.50	22.27				
25			0	21.50	21.19				
			13	21.50	21.21				
			25	21.50	21.21				
50			0	21.50	21.26				
			16QAM	1	0	22.00	21.82		
					25	22.00	21.94		
49		22.50			22.00				
25		0		20.50	20.47				
		13		20.50	20.46				
		25		20.50	20.42				
50		0		21.00	20.50				

Band 17

LTE-FDD Band 17				Maximum Tune-up(dBm)	Conducted Power(dBm)			
Bandwidth	Modulation	RB allocation	RB offset		23755	23790	23825	
					706.5MHz	710MHz	713.5MHz	
5MHz	QPSK	1	0	22.50	21.99	22.06	21.89	
			13	22.50	22.10	22.06	22.04	
			24	22.50	21.97	22.03	21.95	
		12	0	22.00	21.12	21.11	21.52	
			6	21.50	21.13	21.07	21.03	
			13	22.00	21.07	21.50	21.15	
		25	0	21.50	21.08	21.08	21.12	
		16QAM	1	0	22.00	20.84	20.12	21.52
				13	21.50	21.06	20.21	21.15
	24			21.50	21.03	20.64	21.15	
	12		0	21.00	20.47	20.03	20.51	
			6	20.50	20.49	20.03	20.48	
			13	20.50	20.10	20.43	20.47	
	25		0	21.00	20.50	20.12	20.50	

Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	23780	23790	23800
					709MHz	710MHz	711MHz
10MHz	QPSK	1	0	22.50	22.12	22.10	22.05
			25	22.50	22.15	22.06	22.07
			49	22.50	22.17	22.10	21.98
		25	0	21.50	21.04	20.99	21.09
			13	21.50	21.10	21.10	20.99
			25	22.00	21.58	21.53	21.13
		50	0	21.50	21.11	21.07	21.01
	16QAM	1	0	21.50	20.67	21.18	21.12
			25	21.50	20.70	21.17	21.10
			49	21.50	20.76	21.23	21.20
		25	0	21.00	20.66	20.11	20.07
			13	20.50	20.32	20.17	20.10
			25	21.00	20.73	20.56	20.48
		50	0	20.50	20.13	20.19	20.21

Band 26 Part90

LTE-FDD Band 26 Part90				Maximum Tune-up(dBm)	Conducted Power(dBm)		
Bandwidth	Modulation	RB allocation	RB offset		26697	26740	26783
					814.7MHz	819.0MHz	823.3MHz
1.4MHz	QPSK	1	0	22.50	22.03	22.07	21.96
			2	22.50	22.01	22.15	22.01
			5	22.50	22.06	22.13	22.08
		3	0	22.50	22.20	22.16	21.88
			2	22.50	22.22	22.09	22.04
			3	22.50	22.13	22.18	21.99
		6	0	21.50	20.95	21.03	20.95
	16QAM	1	0	21.50	21.18	20.59	20.95
			2	21.50	21.13	20.54	20.97
			5	21.50	21.15	20.53	21.02
		3	0	21.00	20.92	20.65	20.94
			2	21.00	20.96	20.64	20.96
			3	21.50	20.90	20.67	21.01
		6	0	21.00	20.09	20.06	20.56
		Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	26705
815.5MHz	819.0MHz						822.5MHz
3MHz	QPSK	1	0	22.50	22.17	21.99	22.04
			7	22.50	22.15	22.05	21.95
			14	22.50	22.14	22.10	21.93
		8	0	21.50	20.97	21.00	20.94
			4	21.50	20.98	21.07	21.07
			7	21.50	21.12	21.07	20.95
		15	0	21.50	21.10	21.04	21.09
	16QAM	1	0	21.50	21.43	21.35	20.59
			7	21.50	21.44	21.21	20.58
			14	21.50	21.45	21.27	20.58
		8	0	20.50	20.12	20.32	20.10
			4	21.00	20.14	20.27	20.61
			7	21.00	20.14	20.27	20.65
		15	0	20.50	20.01	20.04	20.44

LTE-FDD Band 26 Part90				Maximum Tune-up(dBm)	Conducted Power(dBm)		
Bandwidth	Modulation	RB allocation	RB offset		26715	26740	26765
					816.5MHz	819.0MHz	821.5MHz
5MHz	QPSK	1	0	22.50	21.91	21.98	22.13
			13	22.50	21.97	22.03	22.03
			24	22.00	21.96	21.98	21.95
		12	0	21.50	20.98	21.02	21.06
			6	21.50	21.06	20.95	21.08
			13	21.50	21.09	20.96	21.12
		25	0	21.50	21.13	21.07	21.03
	16QAM	1	0	21.50	21.01	21.08	20.06
			13	21.50	21.12	21.01	20.03
			24	21.50	21.00	20.99	20.00
		12	0	20.50	20.01	20.04	19.98
			6	20.50	20.04	20.11	19.88
			13	20.50	20.01	20.06	20.45
		25	0	20.50	20.14	19.96	20.01
Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	26740		
					819.0MHz		
10MHz	QPSK	1	0	22.00	21.95		
			25	22.00	21.96		
			49	22.50	22.00		
		25	0	21.50	21.06		
			13	21.50	21.09		
			25	21.00	20.91		
	50	0	21.00	20.97			
	16QAM	1	0	21.00	20.67		
			25	21.00	20.67		
			49	21.00	20.62		
		25	0	20.50	20.19		
			13	20.50	20.17		
			25	20.50	20.14		
		50	0	20.50	20.03		

Band 26 Part22

LTE-FDD Band 26 Part22				Maximum Tune-up(dBm)	Conducted Power(dBm)		
Bandwidth	Modulation	RB allocation	RB offset		26797	26915	27033
					824.7MHz	836.5MHz	848.3MHz
1.4MHz	QPSK	1	0	22.50	22.12	21.99	22.01
			2	22.50	22.05	22.00	22.19
			5	22.50	22.14	22.05	22.19
		3	0	22.50	22.13	22.15	22.07
			2	22.50	22.01	22.15	22.11
			3	22.50	21.98	22.18	22.13
	6	0	21.50	21.00	21.07	21.09	
	16QAM	1	0	21.50	20.62	21.15	20.60
			2	21.50	20.61	21.14	20.67
			5	21.50	20.64	21.15	20.60
		3	0	21.00	20.81	20.85	20.80
			2	21.00	20.78	20.86	20.79
			3	21.00	20.80	20.90	20.78
		6	0	21.00	20.47	20.09	20.64

Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	26805	26915	27025
					825.5MHz	836.5MHz	847.5MHz
3MHz	QPSK	1	0	22.50	22.10	22.06	22.06
			7	22.50	22.11	22.06	22.07
			14	22.50	22.06	22.06	22.09
		8	0	21.50	21.17	21.08	21.15
			4	21.50	21.02	21.08	21.15
			7	21.50	20.92	21.00	21.07
		15	0	21.50	21.20	21.04	21.10
	16QAM	1	0	22.00	20.59	21.79	21.34
			7	22.00	20.64	21.79	21.33
			14	22.00	20.48	21.81	21.25
		8	0	21.00	20.57	20.03	20.37
			4	21.00	20.56	20.19	20.39
			7	21.00	20.57	20.12	20.80
		15	0	21.00	20.50	20.12	20.14
LTE-FDD Band 26 Part22				Maximum Tune-up(dBm)	Conducted Power(dBm)		
Bandwidth	Modulation	RB allocation	RB offset		26815	26915	27015
					826.5MHz	836.5MHz	846.5MHz
5MHz	QPSK	1	0	22.50	21.95	22.05	22.16
			13	22.50	21.90	22.05	22.09
			24	22.50	21.99	22.14	22.11
		12	0	21.50	21.07	21.17	21.04
			6	21.50	20.86	21.08	21.13
			13	21.50	20.94	21.09	21.11
		25	0	21.50	20.95	21.09	21.07
	16QAM	1	0	21.50	21.11	21.11	20.18
			13	21.50	20.93	21.08	20.17
			24	21.50	21.06	21.14	20.10
		12	0	21.00	20.45	20.09	20.54
			6	20.50	20.44	20.03	20.11
			13	20.50	20.48	20.09	20.04
		25	0	21.00	20.56	20.01	20.22

Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	26840	26915	26990
					829.0MHz	836.5MHz	844.0MHz
10MHz	QPSK	1	0	22.50	21.95	22.23	22.01
			25	22.50	22.08	22.26	22.03
			49	22.50	22.06	22.22	22.02
		25	0	21.50	21.07	21.08	21.04
			13	21.50	21.03	21.12	21.16
			25	21.50	20.96	21.08	21.17
		50	0	21.50	21.12	21.07	20.98
	16QAM	1	0	21.50	20.73	21.15	21.23
			25	21.50	20.77	21.23	21.33
			49	21.50	20.77	21.34	21.26
		25	0	21.00	20.63	20.10	20.09
			13	21.00	20.70	20.24	20.18
			25	21.00	20.73	20.21	20.21
		50	0	21.00	20.51	20.15	20.25

Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	26865	26915	26965
					831.5MHz	836.5MHz	841.5MHz
15MHz	QPSK	1	0	22.50	21.88	22.20	22.00
			38	22.50	21.95	22.23	22.06
			74	22.50	22.03	22.25	21.99
		36	0	21.50	20.99	21.10	21.19
			18	21.50	20.96	21.06	21.08
			39	21.50	21.27	21.14	21.13
		75	0	21.50	21.07	21.15	21.17
	16QAM	1	0	21.50	21.06	21.13	21.27
			38	21.50	21.17	21.24	21.33
			74	21.50	21.28	21.30	21.26
		36	0	21.00	20.58	20.09	20.13
			18	21.00	20.56	20.24	20.27
			39	21.00	20.02	20.25	20.60
		75	0	21.00	20.53	20.22	20.11

Band 41

LTE-TDD Band 41				Maximum Tune-up(dBm)	Conducted Power(dBm)		
Bandwidth	Modulation	RB allocation	RB offset		39675	40620	41565
5MHz	QPSK	1	0	22.00	21.39	21.83	21.78
			13	22.50	22.20	21.74	21.64
			24	22.50	22.39	21.83	21.71
		12	0	22.00	21.51	20.91	20.75
			6	22.50	22.00	20.88	20.84
			13	22.50	22.10	20.87	20.83
		25	0	22.00	21.91	20.81	20.74
	16QAM	1	0	22.50	20.67	22.23	21.27
			13	22.50	21.41	22.02	21.32
			24	22.00	21.53	21.94	21.25
		12	0	20.50	20.48	19.84	19.80
			6	21.00	20.87	19.81	19.77
			13	21.50	21.13	19.72	19.75
		25	0	21.00	20.90	19.90	19.88
10MHz	QPSK	1	0	22.00	21.16	21.75	21.67
			25	22.50	22.19	21.72	21.77
			49	23.00	22.61	21.71	21.55
		25	0	21.00	20.98	20.81	20.75
			13	22.00	21.73	20.85	20.72
			25	22.50	22.09	20.92	20.78
		50	0	22.00	21.61	20.91	20.80
	16QAM	1	0	22.00	20.62	21.42	21.88
			25	22.00	21.31	21.45	21.83
			49	22.00	21.78	21.06	21.87
		25	0	20.50	19.95	20.11	19.87
			13	21.00	20.61	20.08	19.86
			25	21.50	21.20	20.10	19.96
		50	0	21.00	20.62	19.86	19.97

LTE-TDD Band 41				Maximum Tune-up(dBm)	Conducted Power(dBm)		
Bandwidth	Modulation	RB allocation	RB offset		39725	40620	41515
					2503.5MHz	2593.0MHz	2682.5MHz
15MHz	QPSK	1	0	22.50	21.46	22.11	21.82
			38	22.50	22.42	21.73	21.64
			74	22.50	22.35	21.77	21.76
		36	0	22.00	21.85	20.79	20.49
			18	22.50	22.17	20.48	20.54
			39	22.50	22.44	20.46	20.74
		75	0	22.50	22.22	20.59	20.55
	16QAM	1	0	21.50	21.41	20.86	21.02
			38	22.50	22.06	21.31	21.07
			74	22.00	21.81	21.05	21.11
		36	0	21.50	21.26	19.60	19.84
			18	22.00	21.65	19.60	19.74
			39	22.00	21.79	19.62	19.78
		75	0	21.50	21.48	19.69	19.75
Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	39750	40620	41490
					2506.0MHz	2593.0MHz	2680.0MHz
20MHz	QPSK	1	0	22.50	21.48	22.03	21.73
			50	23.00	22.52	21.77	21.85
			99	22.50	22.23	21.71	21.76
		50	0	22.00	21.54	20.79	20.69
			25	22.50	22.00	20.77	20.73
			50	22.50	22.11	20.60	20.69
		100	0	22.00	21.70	20.70	20.74
	16QAM	1	0	22.00	21.13	21.89	21.40
			50	22.00	21.48	21.95	21.20
			99	22.00	21.61	21.82	21.42
		50	0	20.50	20.47	19.90	19.94
			25	21.50	21.04	19.91	19.80
			50	21.50	21.31	19.90	19.76
		100	0	21.00	20.89	19.81	19.85

Band 66

LTE-FDD Band 66				Maximum Tune-up(dBm)	Conducted Power(dBm)		
Bandwidth	Modulation	RB allocation	RB offset		131979	132322	132665
					1710.7MHz	1745.0MHz	1779.3MHz
1.4MHz	QPSK	1	0	23.00	22.46	22.48	22.58
			2	23.00	22.59	22.52	22.69
			5	23.00	22.49	22.59	22.66
		3	0	23.00	22.53	22.44	22.62
			2	23.00	22.57	22.41	22.64
			3	23.00	22.62	22.35	22.56
		6	0	22.00	21.46	21.36	21.58
	16QAM	1	0	22.00	21.60	21.41	21.49
			2	22.00	21.61	21.32	21.48
			5	22.00	21.59	21.35	21.61
		3	0	22.00	21.16	20.98	21.63
			2	22.00	21.14	20.98	21.55
			3	22.00	21.16	21.01	21.62
		6	0	21.00	20.92	20.62	20.68

Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	131987	132322	132657
					1711.5MHz	1745.0MHz	1778.5MHz
3MHz	QPSK	1	0	23.00	22.57	22.28	22.51
			7	23.00	22.51	22.32	22.52
			14	23.00	22.60	22.27	22.55
		8	0	22.00	21.45	21.30	21.53
			4	22.00	21.48	21.22	21.53
			7	22.00	21.57	21.20	21.57
		15	0	22.00	21.55	21.20	21.50
	16QAM	1	0	21.50	21.31	21.32	21.32
			7	21.50	21.31	21.25	21.38
			14	22.00	21.35	21.60	21.36
		8	0	21.50	21.06	20.40	20.65
			4	21.50	21.05	20.42	20.66
			7	21.00	20.76	20.40	20.70
		15	0	21.00	20.87	20.45	20.50
Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	131997	132322	132647
					1712.5MHz	1745.0MHz	1777.5MHz
5MHz	QPSK	1	0	22.50	22.41	22.31	22.48
			13	22.50	22.42	22.31	22.44
			24	22.50	22.39	22.33	22.46
		12	0	21.50	21.48	21.26	21.47
			6	22.00	21.57	21.30	21.52
			13	22.00	21.49	21.60	21.51
		25	0	22.00	21.58	21.29	21.46
	16QAM	1	0	22.00	21.41	21.53	20.85
			13	22.00	21.45	21.56	20.85
			24	22.00	21.42	21.81	20.83
		12	0	21.00	20.90	20.37	20.51
			6	21.00	20.73	20.43	20.47
			13	21.00	20.61	20.66	20.46
		25	0	21.00	20.75	20.42	20.50

Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	132022	132322	132622
					1715.0MHz	1745.0MHz	1775.0MHz
10MHz	QPSK	1	0	23.00	22.51	22.27	22.51
			25	23.00	22.62	22.28	22.62
			49	23.00	22.49	22.35	22.54
		25	0	22.00	21.53	21.21	21.51
			13	21.50	21.49	21.30	21.48
			25	22.00	21.48	21.50	21.44
		50	0	22.00	21.53	21.36	21.42
	16QAM	1	0	22.50	22.10	20.94	21.30
			25	22.50	22.06	20.88	21.29
			49	22.50	22.13	20.90	21.34
		25	0	21.00	20.67	20.24	20.85
			13	21.00	20.59	20.32	20.54
			25	21.00	20.65	20.63	20.53
		50	0	21.00	20.54	20.35	20.43

LTE-FDD Band 66				Maximum Tune-up(dBm)	Conducted Power(dBm)			
Bandwidth	Modulation	RB allocation	RB offset		132047	132322	132597	
					1717.5MHz	1745.0MHz	1772.5MHz	
15MHz	QPSK	1	0	22.50	22.27	22.40	22.32	
			38	22.50	22.38	22.34	22.46	
			74	22.50	22.36	22.36	22.47	
		36	0	21.50	21.45	21.25	21.48	
			18	21.50	21.42	21.31	21.48	
			39	22.00	21.50	21.30	21.45	
		75	0	21.50	21.46	21.26	21.41	
			0	22.00	21.34	21.56	21.03	
			38	22.00	21.37	21.61	21.15	
	16QAM	1	74	22.50	21.38	22.03	21.07	
			36	0	21.00	20.54	20.71	20.82
				18	21.00	20.53	20.38	20.81
		39		21.00	20.57	20.26	20.45	
		75	0	21.00	20.60	20.37	20.76	
Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	132072	132322	132572	
					1720.0MHz	1745.0MHz	1770.0MHz	
20MHz	QPSK	1	0	23.00	22.52	22.37	22.36	
			50	23.00	22.54	22.37	22.55	
			99	23.00	22.49	22.46	22.56	
		50	0	22.00	21.50	21.30	21.38	
			25	22.00	21.52	21.20	21.38	
			50	22.00	21.58	21.34	21.45	
		100	0	21.50	21.49	21.36	21.45	
			0	22.00	21.75	21.35	21.36	
			50	22.00	21.78	21.40	21.46	
	16QAM	1	99	22.00	21.65	21.42	21.52	
			50	0	21.00	20.51	20.76	20.48
				25	21.00	20.43	20.41	20.84
		50		21.00	20.44	20.31	20.57	
		100	0	21.00	20.55	20.35	20.81	

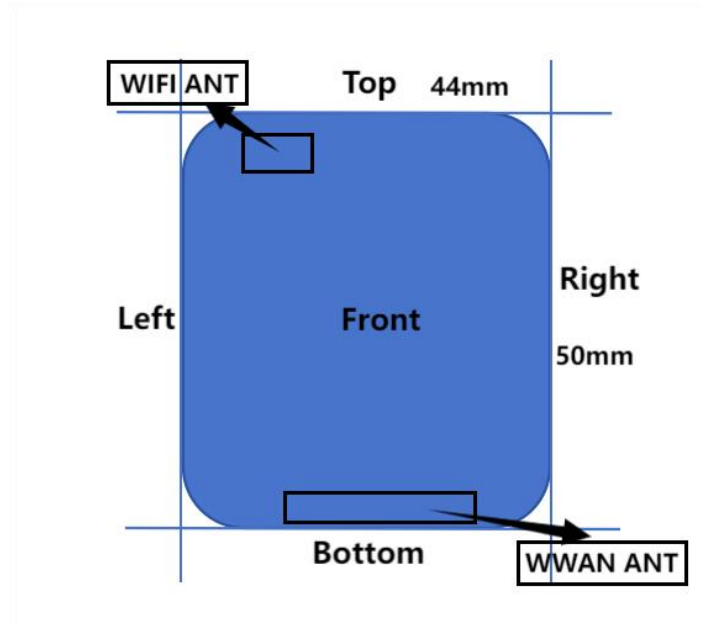
8.4 WIFI

Band (GHz)	Mode	Channel	Freq. (MHz)	Average power(dBm)	Maximum Tune-up(dBm)	SAR Test Require.
2.4g (2.4~2.4835)	802.11b	1	2412	12.83	13.00	No
		6	2437	13.20	13.50	No
		11	2462	13.27	13.50	Yes
	802.11g	1	2412	11.64	12.00	No
		6	2437	11.66	12.00	No
		12	2462	11.00	11.50	No
	802.11n(HT20)	1	2412	11.59	12.00	No
		6	2437	11.58	12.00	No
		11	2462	10.98	11.00	No

Note: SAR is not required for the following 2.4 GHz OFDM conditions as the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is $\leq 1.2W/kg$.

9. Test Exclusion Consideration

Antenna information:



GSM/WCDMA/LTE Antenna	GSM/WCDMA/LTE TX/RX
WLAN Antenna	WLAN TX/RX
Note: 1. KDB 447498 D04v01, Transmitters that are built-in within a wrist watch or similar wrist-worn devices typically operate in speaker mode for voice communication, with the device worn on the wrist and positioned next to the mouth. Next to the mouth exposure requires 1-g SAR and the wrist-worn condition requires 10-g extremity SAR.	

9.1 SAR Test Exclusion Consideration Table

Per KDB 447498 requires when the standalone SAR test exclusion of section 4.3.1 is applied to an antenna that transmits simultaneously with other antennas, the standalone SAR must be estimated according to the following format to determine simultaneous transmission SAR test exclusion:

$$(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm}) \cdot [\sqrt{f(\text{GHz})} / x]$$

W/kg for test separation distances ≤ 50 mm;

where $x = 7.5$ for 1-g SAR, and $x = 18.75$ for 10-g SAR.

0.4 W/Kg for 1-g SAR and 1.0 W/kg for 10-g SAR, when the test separation distances is > 50 mm

10. Test Result

Next-to-mouth(10mm gap)													
Mode	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Reported SAR (W/kg)	Meas. No.	
GSM850 +2Tx slots	Front	128	824.2	-2.370	0.129	100.00	1.000	29.39	29.50	1.026	0.132	1#	
Wrist-worn(0mm Gap)													
Mode	Position	Ch.	Freq. (MHz)	Power Drift (%)	10g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	10g Reported SAR (W/kg)	Meas. No.	
GSM850 +2Tx slots	Back	128	824.2	-1.440	0.254	100.00	1.000	29.39	29.50	1.026	0.261	2#	
Next-to-mouth(10mm gap)													
Mode	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Reported SAR (W/kg)	Meas. No.	
GSM1900 +3Tx slots	Front	512	1850.2	-1.310	0.124	100.00	1.000	24.28	24.50	1.052	0.130	3#	
Wrist-worn(0mm Gap)													
Mode	Position	Ch.	Freq. (MHz)	Power Drift (%)	10g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	10g Reported SAR (W/kg)	Meas. No.	
GSM1900 +3Tx slots	Back	512	1850.2	3.930	0.263	100.00	1.000	24.28	24.50	1.052	0.277	4#	
Next-to-mouth(10mm gap)													
Mode	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Reported SAR (W/kg)	Meas. No.	
WCDMA Band 2 (RMC*)	Front	9262	1852.4	-1.760	0.204	100.00	1.000	21.76	22.00	1.057	0.216	5#	
Wrist-worn(0mm Gap)													
Mode	Position	Ch.	Freq. (MHz)	Power Drift (%)	10g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	10g Reported SAR (W/kg)	Meas. No.	
WCDMA Band 2 (RMC*)	Back	9262	1852.4	-3.290	0.686	100.00	1.000	21.76	22.00	1.057	0.725	6#	
Next-to-mouth(10mm gap)													
Mode	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Reported SAR (W/kg)	Meas. No.	
WCDMA Band 4 (RMC*)	Front	1312	1712.4	3.110	0.478	100.00	1.000	22.13	22.50	1.089	0.521	7#	
Wrist-worn(0mm Gap)													
Mode	Position	Ch.	Freq. (MHz)	Power Drift (%)	10g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	10g Reported SAR (W/kg)	Meas. No.	
WCDMA Band 4 (RMC*)	Back	1312	1712.4	-1.590	1.234	100.00	1.000	22.13	22.50	1.089	1.344	8#	
Next-to-mouth(10mm gap)													
Mode	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Reported SAR (W/kg)	Meas. No.	
WCDMA Band 5 (RMC*)	Front	4233	846.6	-2.130	0.080	100.00	1.000	21.70	22.00	1.072	0.086	9#	
Wrist-worn(0mm Gap)													
Mode	Position	Ch.	Freq. (MHz)	Power Drift (%)	10g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	10g Reported SAR (W/kg)	Meas. No.	
WCDMA Band 5 (RMC*)	Back	4233	846.6	-0.190	0.226	100.00	1.000	21.70	22.00	1.072	0.242	10#	
Next-to-mouth(10mm gap)													
Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Reported SAR (W/kg)	Meas. No.
Band 2 (BW:20MHz)	1RB	Front	18700	1860.0	2.300	0.117	100.00	1.000	22.23	22.50	1.064	0.124	11#
	50%RB	Front	18700	1860.0	1.570	0.086	100.00	1.000	21.22	21.50	1.067	0.092	/
Wrist-worn(0mm Gap)													
Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (%)	10g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	10g Reported SAR (W/kg)	Meas. No.
Band 2 (BW:20MHz)	1RB	Back	18700	1860.0	2.550	0.605	100.00	1.000	22.23	22.50	1.064	0.644	12#
	50%RB	Back	18700	1860.0	-0.680	0.535	100.00	1.000	21.22	21.50	1.067	0.571	/

Next-to-mouth(10mm gap)													
Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Reported SAR (W/kg)	Meas. No.
Band 4 (BW:20MHz)	1RB	Front	20050	1720.0	3.910	0.511	100.00	1.000	22.56	23.00	1.107	0.566	13#
	50%RB	Front	20050	1720.0	2.050	0.451	100.00	1.000	21.42	21.50	1.019	0.460	/
Wrist-worn(0mm Gap)													
Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (%)	10g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	10g Reported SAR (W/kg)	Meas. No.
Band 4 (BW:20MHz)	1RB	Back	20050	1720.0	-3.120	0.934	100.00	1.000	22.56	23.00	1.107	1.034	14#
	50%RB	Back	20050	1720.0	-0.550	0.885	100.00	1.000	21.42	21.50	1.019	0.902	/
Next-to-mouth(10mm gap)													
Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Reported SAR (W/kg)	Meas. No.
Band 5 (BW:10MHz)	1RB	Front	20525	836.5	2.430	0.067	100.00	1.000	22.06	22.50	1.107	0.074	15#
	50%RB	Front	20525	836.5	1.220	0.053	100.00	1.000	21.11	21.50	1.094	0.058	/
Wrist-worn(0mm Gap)													
Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (%)	10g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	10g Reported SAR (W/kg)	Meas. No.
Band 5 (BW:10MHz)	1RB	Back	20525	836.5	-1.140	0.171	100.00	1.000	22.06	22.50	1.107	0.189	16#
	50%RB	Back	20525	836.5	-3.050	0.134	100.00	1.000	21.11	21.50	1.094	0.147	/
Next-to-mouth(10mm gap)													
Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Reported SAR (W/kg)	Meas. No.
Band 7 (BW: 20MHz)	1RB	Front	21350	2560.0	-2.010	0.633	100.00	1.000	21.85	22.00	1.035	0.655	17#
	50%RB	Front	21350	2560.0	3.180	0.585	100.00	1.000	20.88	21.00	1.028	0.601	/
Wrist-worn(0mm Gap)													
Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (%)	10g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	10g Reported SAR (W/kg)	Meas. No.
Band 7 (BW: 20MHz)	1RB	Back	21350	2560.0	-0.830	1.576	100.00	1.000	21.85	22.00	1.035	1.631	18#
	50%RB	Back	21350	2560.0	2.550	1.512	100.00	1.000	20.88	21.00	1.028	1.554	/
Next-to-mouth(10mm gap)													
Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Reported SAR (W/kg)	Meas. No.
Band 12 (BW: 10MHz)	1RB	Front	23130	711.0	-1.260	0.063	100.00	1.000	22.14	22.50	1.086	0.068	19#
	50%RB	Front	23130	711.0	0.810	0.037	100.00	1.000	21.25	21.50	1.059	0.039	/
Wrist-worn(0mm Gap)													
Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (%)	10g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	10g Reported SAR (W/kg)	Meas. No.
Band 12 (BW: 10MHz)	1RB	Back	23130	711.0	-2.650	0.121	100.00	1.000	22.14	22.50	1.086	0.131	20#
	50%RB	Back	23130	711.0	1.360	0.094	100.00	1.000	21.25	21.50	1.059	0.100	/
Next-to-mouth(10mm gap)													
Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Reported SAR (W/kg)	Meas. No.
Band 13 (BW: 10MHz)	1RB	Front	23230	782.0	0.960	0.098	100.00	1.000	22.27	22.50	1.054	0.103	21#
	50%RB	Front	23230	782.0	0.540	0.076	100.00	1.000	21.21	21.50	1.069	0.081	/
Wrist-worn(0mm Gap)													
Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (%)	10g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	10g Reported SAR (W/kg)	Meas. No.
Band 13 (BW: 10MHz)	1RB	Back	23230	782.0	-1.460	0.165	100.00	1.000	22.27	22.50	1.054	0.174	22#
	50%RB	Back	23230	782.0	-2.080	0.132	100.00	1.000	21.21	21.50	1.069	0.141	/
Next-to-mouth(10mm gap)													
Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Reported SAR (W/kg)	Meas. No.
Band 17 (BW: 10MHz)	1RB	Front	23780	709.0	-2.110	0.045	100.00	1.000	22.17	22.50	1.079	0.049	23#
	50%RB	Front	23780	709.0	1.350	0.021	100.00	1.000	21.58	22.00	1.102	0.023	/
Wrist-worn(0mm Gap)													
Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (%)	10g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	10g Reported SAR (W/kg)	Meas. No.

Band 17 (BW: 10MHz)	1RB	Back	23780	709.0	-4.950	0.097	100.00	1.000	22.17	22.50	1.079	0.105	24#
	50%RB	Back	23780	709.0	2.380	0.067	100.00	1.000	21.58	22.00	1.102	0.074	/
Next-to-mouth(10mm gap)													
Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Reported SAR (W/kg)	Meas. No.
Band 26 Part 90 (BW: 10MHz)	1RB	Front	26740	819.0	-0.470	0.060	100.00	1.000	22.00	22.50	1.122	0.067	25#
	50%RB	Front	26740	819.0	1.270	0.034	100.00	1.000	21.09	21.50	1.099	0.037	/
Wrist-worn(0mm Gap)													
Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (%)	10g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	10g Reported SAR (W/kg)	Meas. No.
Band 26 Part 90 (BW: 10MHz)	1RB	Back	26740	819.0	-1.710	0.116	100.00	1.000	22.00	22.50	1.122	0.130	26#
	50%RB	Back	26740	819.0	0.320	0.086	100.00	1.000	21.09	21.50	1.099	0.095	/
Next-to-mouth(10mm gap)													
Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Reported SAR (W/kg)	Meas. No.
Band 26 Part 22 (BW: 15MHz)	1RB	Front	26915	836.5	-1.530	0.105	100.00	1.000	22.25	22.50	1.059	0.111	27#
	50%RB	Front	26915	836.5	0.800	0.081	100.00	1.000	21.14	21.50	1.086	0.088	/
Wrist-worn(0mm Gap)													
Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (%)	10g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	10g Reported SAR (W/kg)	Meas. No.
Band 26 Part 22 (BW: 15MHz)	1RB	Back	26915	836.5	0.220	0.232	100.00	1.000	22.25	22.50	1.059	0.246	28#
	50%RB	Back	26915	836.5	1.080	0.183	100.00	1.000	21.14	21.50	1.086	0.199	/
Next-to-mouth(10mm gap)													
Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Reported SAR (W/kg)	Meas. No.
Band 41 (BW: 20MHz)	1RB	Front	39750	2506.0	-3.960	0.099	100.00	1.000	22.52	23.00	1.117	0.111	29#
	50%RB	Front	39750	2506.0	2.000	0.081	100.00	1.000	22.11	22.50	1.094	0.089	/
Wrist-worn(0mm Gap)													
Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (%)	10g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	10g Reported SAR (W/kg)	Meas. No.
Band 41 (BW: 20MHz)	1RB	Back	39750	2506.0	4.380	0.233	100.00	1.000	22.52	23.00	1.117	0.260	30#
	50%RB	Back	39750	2506.0	1.780	0.201	100.00	1.000	22.11	22.50	1.094	0.220	/
Next-to-mouth(10mm gap)													
Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Reported SAR (W/kg)	Meas. No.
Band 66 (BW: 20MHz)	1RB	Front	132572	1770.0	-4.470	0.561	100.00	1.000	22.56	23.00	1.107	0.621	31#
	50%RB	Front	132572	1770.0	-2.050	0.521	100.00	1.000	21.45	21.50	1.012	0.527	/
Wrist-worn(0mm Gap)													
Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (%)	10g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	10g Reported SAR (W/kg)	Meas. No.
Band 66 (BW: 20MHz)	1RB	Back	132572	1770.0	1.450	1.252	100.00	1.000	22.56	23.00	1.107	1.386	32#
	50%RB	Back	132572	1770.0	-0.310	1.050	100.00	1.000	21.45	21.50	1.012	1.063	/
Next-to-mouth(10mm gap)													
Mode	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Reported SAR (W/kg)	Meas. No.	
2.4 (2.4~2.4835) 802.11b	Front	11	2462	3.150	0.102	100.00	1.000	13.27	13.50	1.054	0.108	33#	
Wrist-worn(0mm Gap)													
Mode	Position	Ch.	Freq. (MHz)	Power Drift (%)	10g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	10g Reported SAR (W/kg)	Meas. No.	
2.4 (2.4~2.4835) 802.11b	Back	11	2462	-1.190	0.101	100.00	1.000	13.27	13.50	1.054	0.106	34#	

Note:

- The maximum SAR Value of each test band is marked bold.
- SAR plot is provided only for the highest measured SAR in each exposure configuration, wireless mode and frequency band combination.
- Per KDB 447498 D04 v01, for each exposure position, if the highest output power channel Reported SAR $\leq 0.8W/kg$, other channels SAR testing is not necessary.
- Per KDB 447498 D04 v01, next-to-mouth/wrist-worn use is evaluated with the device positioned at 10/0mm from a flat phantom respectively filled with head tissue-equivalent medium.
- Per KDB 447498 D04 v01, the report SAR is measured SAR value adjusted for maximum tune-up tolerance. Scaling Factor= $10^{[(\text{tune-up limit power(dBm)} - \text{Ave.power power (dBm)})/10]}$, where tune-up limit is the maximum rated power among all production units.
Reported SAR(W/kg)=Measured SAR (W/kg)*Scaling Factor.

11. SAR Measurement Variability

According to KDB 865664 D01, SAR measurement variability was assessed for each frequency band, which is determined by the SAR probe calibration point and tissue-equivalent medium used for the device measurements. When both head and body tissue-equivalent media are required for SAR measurements in a frequency band, the variability measurement procedures should be applied to the tissue medium with the highest measured SAR, using the highest measured SAR configuration for that tissue-equivalent medium. Alternatively, if the highest measured SAR for both head and body tissue-equivalent media are ≤ 1.45 W/kg and the ratio of these highest SAR values, i.e., largest divided by smallest value, is ≤ 1.10 , the highest SAR configuration for either head or body tissue-equivalent medium may be used to perform the repeated measurement. These additional measurements are repeated after the completion of all measurements requiring the same head or body tissue-equivalent medium in a frequency band. The test device should be returned to ambient conditions (normal room temperature) with the battery fully charged before it is re-mounted on the device holder for the repeated measurement(s) to minimize any unexpected variations in the repeated results. 10g factor

SAR repeated measurement procedure:

1. When the highest measured SAR is < 0.80 W/kg, repeated measurement is not required.
2. When the highest measured SAR is ≥ 0.80 W/kg, repeat that measurement once.
3. If the ratio of largest to smallest SAR for the original and first repeated measurements is > 1.20 , or when the original or repeated measurement is ≥ 1.45 W/kg, perform a second repeated measurement.
4. If the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 , and the original, first or second repeated measurement is ≥ 1.5 W/kg, perform a third repeated measurement.

For 10g SAR, the 10-g Extremity SAR are 2.5 times higher than the 1-g SAR assessment indicated above.

As the above result shows, the highest measured 1g SAR is $0.633 < 0.8$ W/kg and 10g SAR is $1.576 < 2.0$ W/kg, so repeated measurement is not required.

12. Simultaneous Transmission

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/SAR 10g 4.0 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 10g 4.0 W/kg), SAR test exclusion is determined by the SAR to Peak Location Ratio (SPLSR)

12.1 Simultaneous Transmission Mode Considerations

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. The device has 2 Tx antennas, WWAN main antenna and Wi-Fi/BT Ant. supporting 2.4G Wi-Fi & BT. Among that, 2x antennas can always transmit simultaneously. The work mode combination is showed as below table.

Simultaneous Transmission information:

NO.	Configuration	Next-to-mouth	Wrist-worn
1	WWAN+WLAN	Yes	Yes

12.2 Sum SAR of Simultaneous Transmission

Next-to-mouth

Band	Test Position	RB allocation	Reported SAR(W/kg)		Σ SAR (W/kg) WWAN + 2.4G WIFI	SPLSR	Remark
			WWAN	2.4G WIFI			
LTE Band 7 (20MHz)	Front	1RB	0.655	0.108	0.763	N/A	N/A
	Front	50%RB	0.601	0.108	0.709	N/A	N/A

Wrist-worn

Band	Test Position	RB allocation	Reported SAR(W/kg)		Σ SAR (W/kg) WWAN + 2.4G WIFI	SPLSR	Remark
			WWAN	2.4G WIFI			
LTE Band 7 (20MHz)	Back	1RB	1.631	0.106	1.737	N/A	N/A
	Back	50%RB	1.554	0.106	1.660	N/A	N/A

13. Test Equipment List

Description	Manufacturer	Model	Serial No./Version	Cal. Date	Cal. Due
E-Field Probe	MVG	SSE2	0125-EPGO-445	2025/02/01	2026/01/31
6 1/2 Digital Multimeter	Keithley	DMM6500	4527164	2024/10/25	2025/10/24
Wideband Radio Communication Tester	ROHDE & SCHWARZ	CMW500	161997	2024/10/25	2025/10/24
MXG Vector Signal Generator	Agilent	N5182A	MY46240163	2024/10/25	2025/10/24
E-Series Avg. Power Sensor	KEYSIGHT	E9300A	MY55050017	2025/04/02	2026/04/01
EPM Series Power Meter	KEYSIGHT	E4418B	MY41293435	2025/04/02	2026/04/01
MXA Signal Analyzer	KEYSIGHT	N9020A	MY54410409	2024/10/25	2025/10/24
Broadband Preamplifier	Schwarzbeck	BBV9718D	00008	2024/09/24	2025/09/23
Coupler	MERRIMAC	CWM-10R-10.8G	LOT-83391	N/A	N/A
750MHz Validation Dipole	MVG	SID750	07/22 DIP 0G750-655	2025/05/26	2028/05/25
835MHz Validation Dipole	MVG	SID835	07/22 DIP 0G835-656	2025/05/26	2028/05/25
1800MHz Validation Dipole	MVG	SID1800	07/22 DIP 1G800-657	2025/05/26	2028/05/25
1900MHz Validation Dipole	MVG	SID1900	07/22 DIP 1G900-658	2025/05/26	2028/05/25
2450MHz Validation Dipole	MVG	SID2450	07/22 DIP 2G450-662	2025/05/26	2028/05/25
2600MHz Validation Dipole	MVG	SID2600	07/22 DIP 2G600-663	2025/05/26	2028/05/25
LIMESAR Dielectric Probe	MVG	SCLMP	06/22 OCPG88	2025/02/05	2026/02/04
ENA Series Network Analyzer	Agilent	E5071B	MY42301221	2024/10/25	2025/10/24
Thermometer	Riters	DT-232	21A11	2025/04/02	2026/04/01
Antenna network emulator	MVG	ANTA 74	07/22 ANTA 74	N/A	N/A
SAM Phantom	MVG	SAM	07/22 SAM149	N/A	N/A
Mobile Phone Positioning System	MVG	MSH 118	07/22 MSH 118	N/A	N/A
Mechanical Calibration Kit	PNA	N/A	N/A	2024/10/25	2025/10/24
Open SAR test software	MVG	N/A	V5.3.5	N/A	N/A

Note: For dipole antennas, BTF has adopted 3 years as calibration intervals, and on annual basis, every measurement dipole has been evaluated and is in compliance with the following criteria:

1. There is no physical damage on the dipole;
2. System validation with specific dipole is within 10% of calibrated value;
3. Return-loss is within 20% of calibrated measurement.
4. Impedance (real or imaginary parts) is within 5 Ohms of calibrated measurement.

ANNEX A Simulating Liquid Verification Result

The dielectric parameters of the liquids were verified prior to the SAR evaluation using an SCLMP Dielectric Probe Kit.

Dielectric performance of tissue simulating liquid									
Frequency (MHz)	ϵ_r		σ (s/m)		Delta (ϵ_r)	Delta (σ)	Limit	Temp (°C)	Date
	Target	Measured	Target	Measured					
711.09	41.90	41.85	0.89	0.89	-0.13%	0.45%	±5%	21.6	12/8/2025
713.41	41.90	41.85	0.89	0.90	-0.13%	0.56%	±5%	21.6	12/8/2025
750	41.90	41.82	0.89	0.90	-0.19%	1.12%	±5%	21.6	12/8/2025
786.41	41.90	41.80	0.89	0.90	-0.23%	1.24%	±5%	21.6	12/8/2025
823.41	41.50	41.78	0.90	0.91	0.67%	0.56%	±5%	21.3	13/8/2025
824.20	41.50	41.78	0.90	0.91	0.67%	0.56%	±5%	21.3	13/8/2025
835	41.50	41.77	0.90	0.91	0.65%	1.11%	±5%	21.3	13/8/2025
836.16	41.50	41.77	0.90	0.91	0.65%	0.78%	±5%	21.3	13/8/2025
840.91	41.50	41.76	0.90	0.91	0.64%	1.00%	±5%	21.3	13/8/2025
846.60	41.50	41.75	0.90	0.91	0.61%	1.33%	±5%	21.3	13/8/2025
1712.40	40.00	40.37	1.40	1.33	0.93%	-5.36%	±5%	21.2	14/8/2025
1720.09	40.00	40.36	1.40	1.33	0.90%	-5.07%	±5%	21.2	14/8/2025
1778.91	40.00	40.27	1.40	1.36	0.66%	-3.07%	±5%	21.2	14/8/2025
1800	40.00	40.23	1.40	1.37	0.57%	-2.14%	±5%	21.2	14/8/2025
1850.20	40.00	40.20	1.40	1.38	0.51%	-1.57%	±5%	21.4	15/8/2025
1852.40	40.00	40.20	1.40	1.38	0.51%	-1.57%	±5%	21.4	15/8/2025
1860.09	40.00	40.20	1.40	1.38	0.50%	-1.43%	±5%	21.4	15/8/2025
1900	40.00	40.18	1.40	1.39	0.45%	-0.71%	±5%	21.4	15/8/2025
2450	39.20	38.83	1.80	1.82	-0.94%	1.11%	±5%	21.9	16/8/2025
2462.00	39.20	38.82	1.80	1.83	-0.97%	1.61%	±5%	21.9	16/8/2025
2506.09	39.00	38.77	1.96	1.87	-0.60%	-4.64%	±5%	22.1	17/8/2025
2568.91	39.00	38.69	1.96	1.90	-0.80%	-2.96%	±5%	22.1	17/8/2025
2600	39.00	38.65	1.96	1.93	-0.90%	-1.53%	±5%	22.1	17/8/2025

NOTE: The dielectric parameters of the tissue-equivalent liquid should be measured under similar ambient conditions and within 2 °C of the conditions expected during the SAR evaluation to satisfy protocol requirements.

ANNEX B System Check Result

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

Frequency (MHz)	Input Power (mW)	10g SAR (W/Kg)	1g SAR (W/Kg)	10g SAR 1W input power normalized (W/Kg)	1g SAR 1W input power normalized (W/Kg)	10g SAR Standard target (1W) (W/Kg)	1g SAR Standard target (1W) (W/Kg)	10g SAR Deviation	1g SAR Deviation
750	100	0.586	0.908	5.86	9.08	5.55	8.41	5.59%	7.97%
835	100	0.662	0.999	6.62	9.99	6.12	9.46	8.17%	5.60%
1800	100	2.118	4.099	21.18	40.99	19.83	37.93	6.81%	8.07%
1900	100	2.188	4.166	21.88	41.66	20.82	40.29	5.09%	3.40%
2450	100	2.586	5.684	25.86	56.84	24.55	52.72	5.34%	7.81%
2600	100	2.464	5.245	24.64	52.45	24.43	53.76	0.86%	-2.44%

System Performance Check Data (750 MHz)

System check at 750 MHz

Date of measurement: 12/8/2025

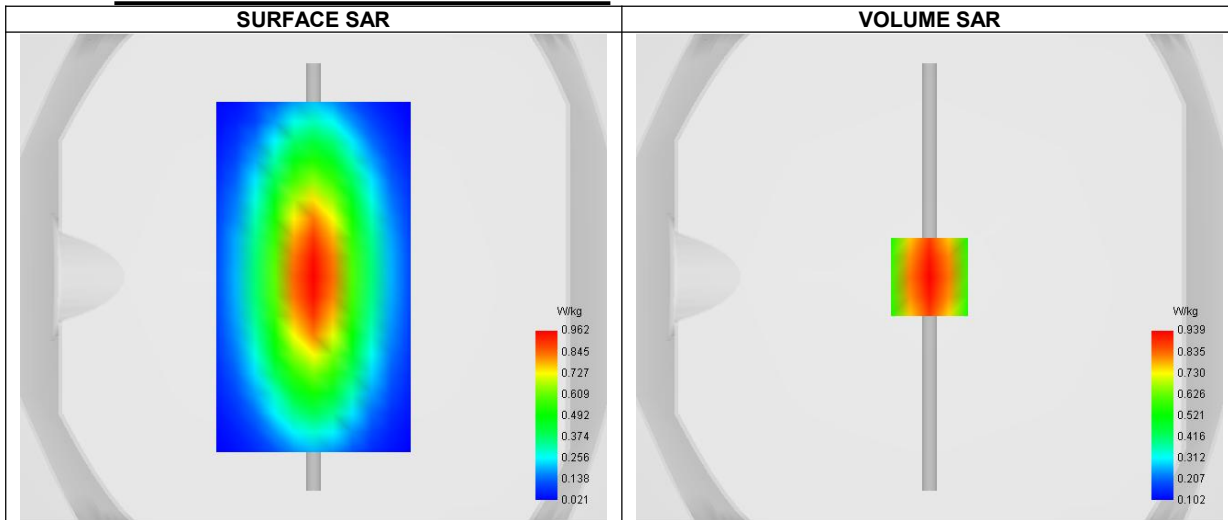
A. Experimental conditions.

Probe	0125-EPGO-445
ConvF	1.24
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5.0mm, Complete
Phantom	Validation plane
Device Position	Dipole
Band	CW750
Channels/Frequency	Middle
Signal	CW

B. Permittivity

Middle TX Frequency (MHz)	750.000
Relative permittivity (real part)	41.823
Relative permittivity (imaginary part)	21.152
Conductivity (S/m)	0.898

C. SAR Surface and Volume



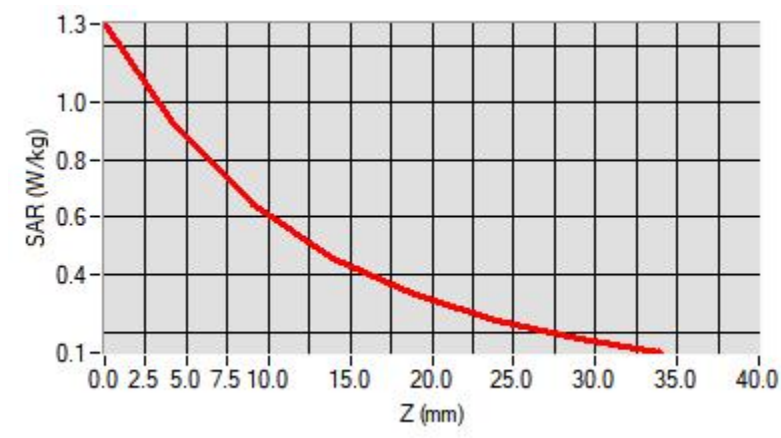
Maximum location: X=0.00, Y=0.00 ; SAR Peak: 1.34 W/kg

D. SAR 1g & 10g

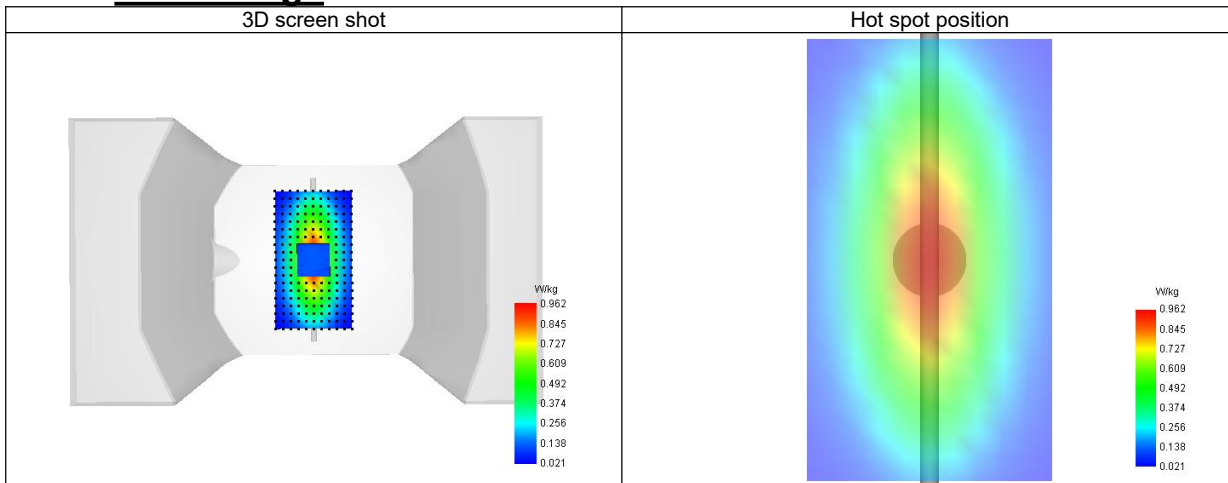
SAR 10g (W/Kg)	0.586
SAR 1g (W/Kg)	0.908
Variation (%)	-4.870
Horizontal validation criteria: minimum distance (mm)	22.627417
Vertical validation criteria: SAR ratio M2/M1 (%)	68.731623

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.276	0.939	0.646	0.459	0.329	0.240	0.177



F. 3D Image



System Performance Check Data (835 MHz)

System check at 835 MHz

Date of measurement: 13/8/2025

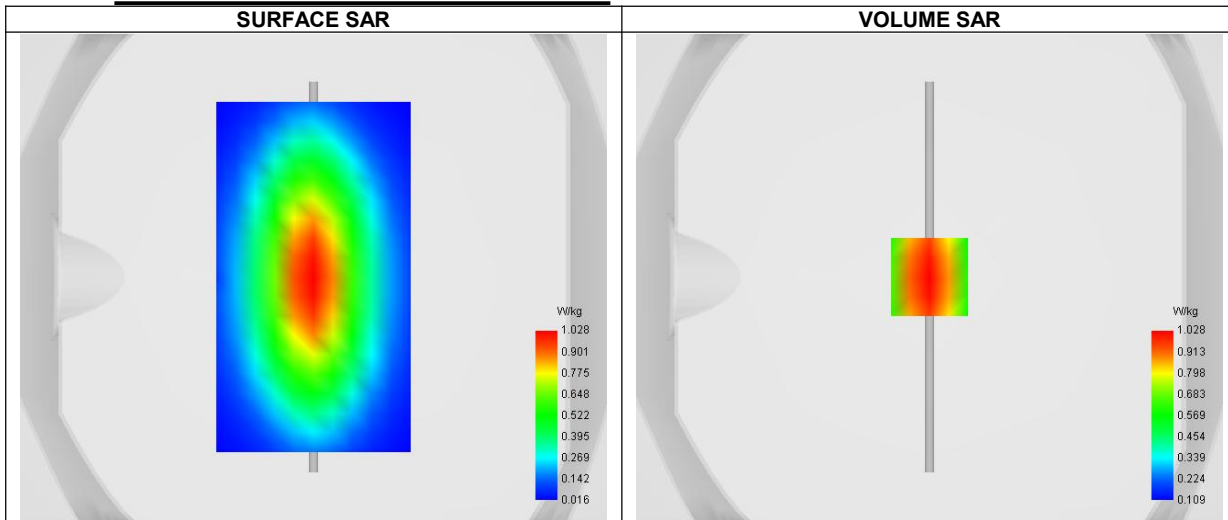
A. Experimental conditions.

Probe	0125-EPGO-445
ConvF	1.15
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5.0mm, Complete
Phantom	Validation plane
Device Position	Dipole
Band	CW835
Channels/Frequency	Middle
Signal	CW

B. Permittivity

Middle TX Frequency (MHz)	835.000
Relative permittivity (real part)	41.773
Relative permittivity (imaginary part)	20.325
Conductivity (S/m)	0.906

C. SAR Surface and Volume



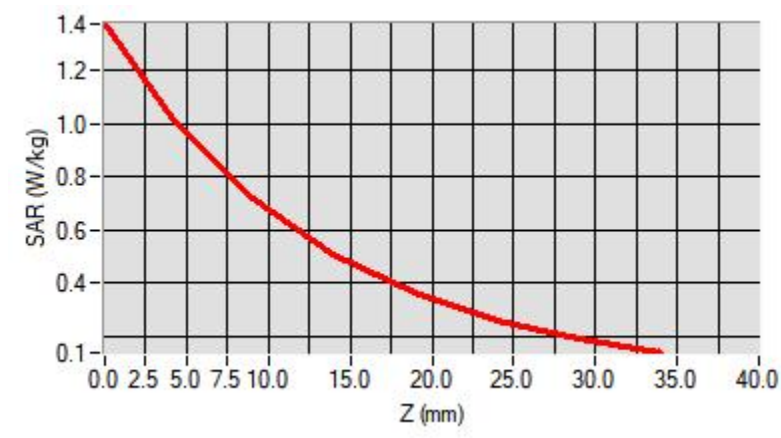
Maximum location: X=0.00, Y=0.00 ; SAR Peak: 1.38 W/kg

D. SAR 1g & 10g

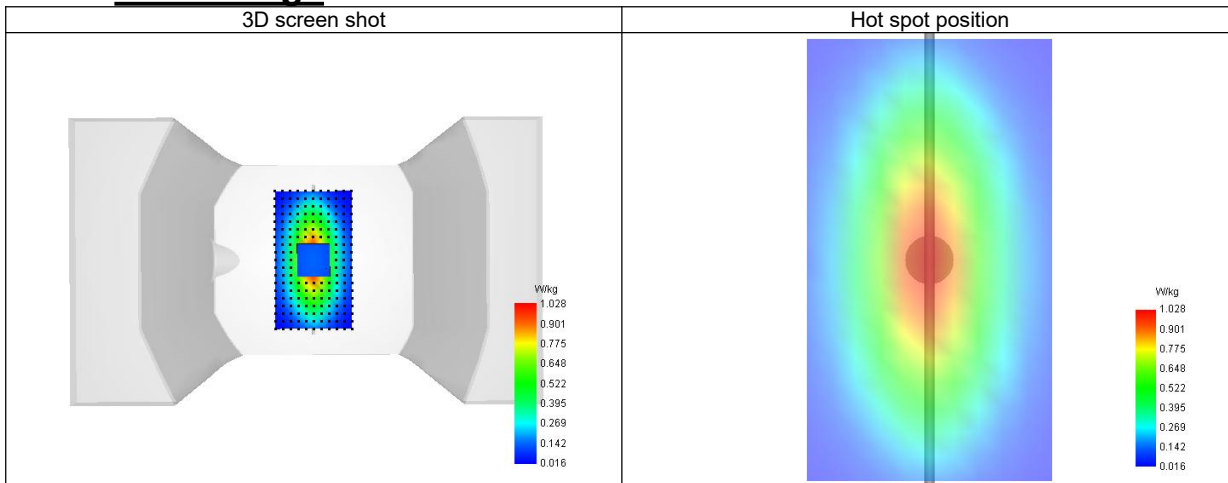
SAR 10g (W/Kg)	0.662
SAR 1g (W/Kg)	0.999
Variation (%)	-2.680
Horizontal validation criteria: minimum distance (mm)	22.627417
Vertical validation criteria: SAR ratio M2/M1 (%)	69.806205

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.373	1.028	0.717	0.507	0.362	0.262	0.190



F. 3D Image



System Performance Check Data (1800 MHz)

System check at 1800 MHz

Date of measurement: 14/8/2025

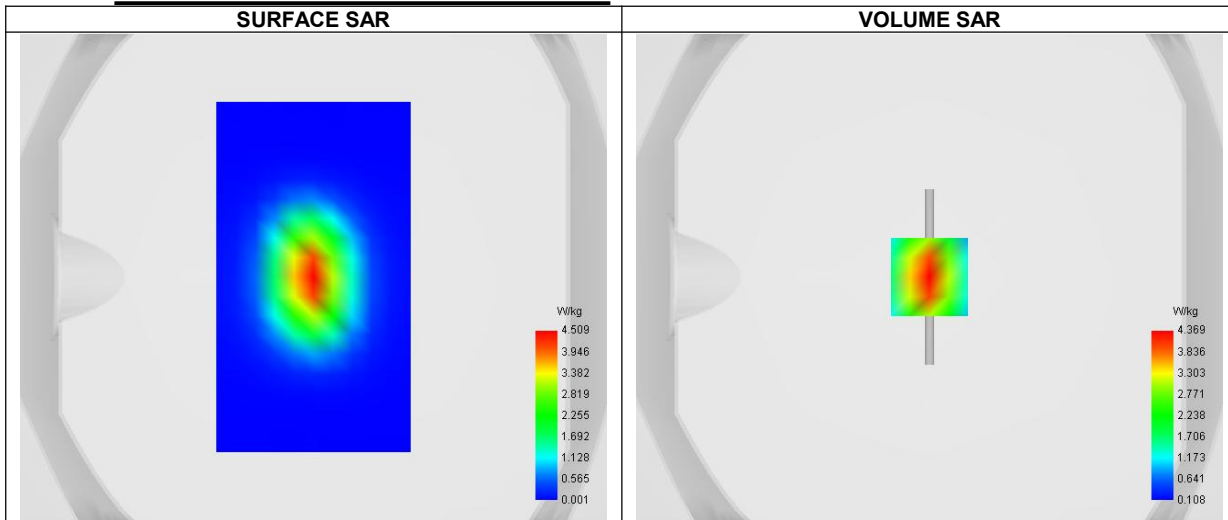
A. Experimental conditions.

Probe	0125-EPGO-445
ConvF	1.20
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5.0mm, Complete
Phantom	Validation plane
Device Position	Dipole
Band	CW1800
Channels/Frequency	Middle
Signal	CW

B. Permittivity

Middle TX Frequency (MHz)	1800.000
Relative permittivity (real part)	40.231
Relative permittivity (imaginary part)	16.715
Conductivity (S/m)	1.367

C. SAR Surface and Volume



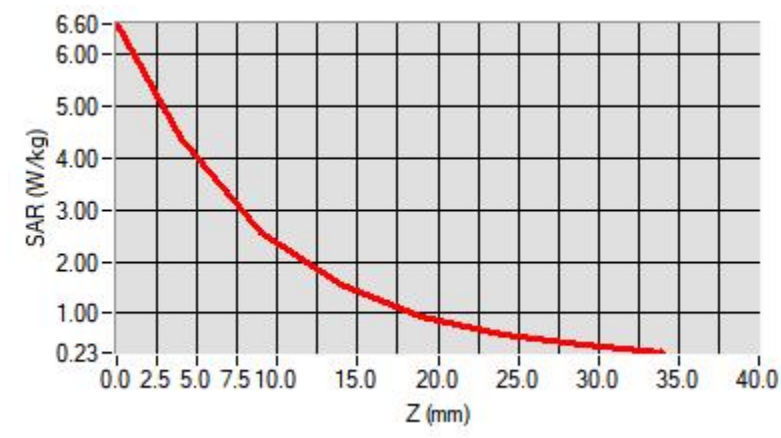
Maximum location: X=0.00, Y=0.00 ; SAR Peak: 6.58 W/kg

D. SAR 1g & 10g

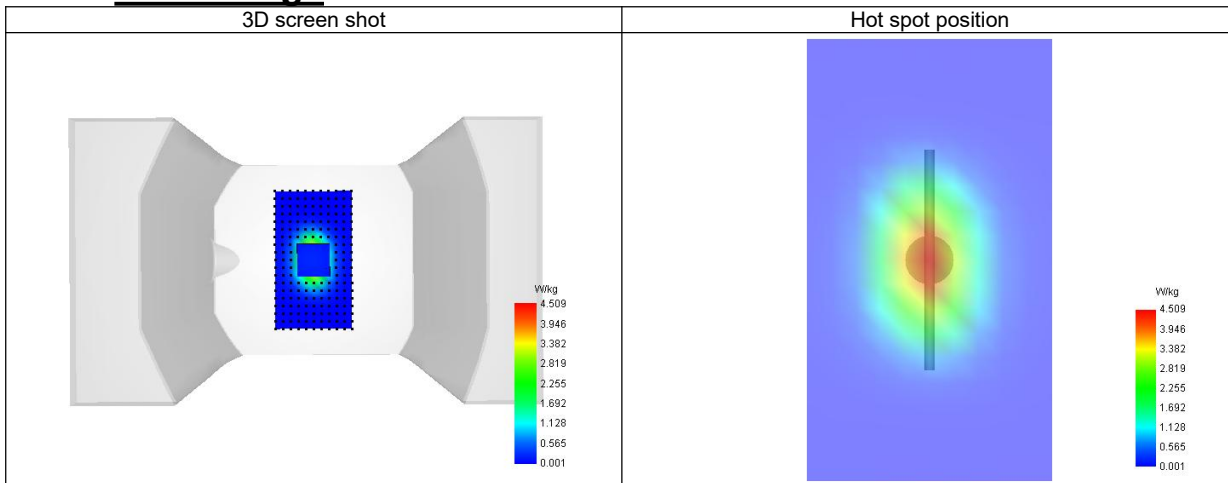
SAR 10g (W/Kg)	2.118
SAR 1g (W/Kg)	4.099
Variation (%)	-3.720
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	58.825744

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	6.600	4.369	2.570	1.559	0.948	0.595	0.375



F. 3D Image



System Performance Check Data (1900MHz)

System check at 1900 MHz

Date of measurement: 15/8/2025

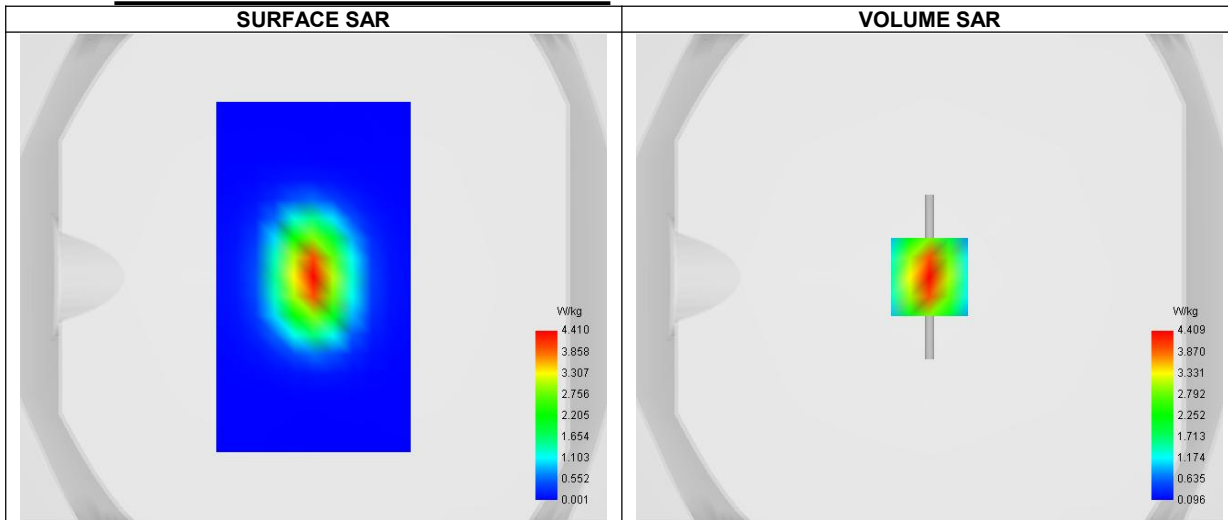
A. Experimental conditions.

Probe	0125-EPGO-445
ConvF	1.31
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5.0mm, Complete
Phantom	Validation plane
Device Position	Dipole
Band	CW1900
Channels/Frequency	Middle
Signal	CW

B. Permittivity

Middle TX Frequency (MHz)	1900.000
Relative permittivity (real part)	40.178
Relative permittivity (imaginary part)	15.326
Conductivity (S/m)	1.388

C. SAR Surface and Volume



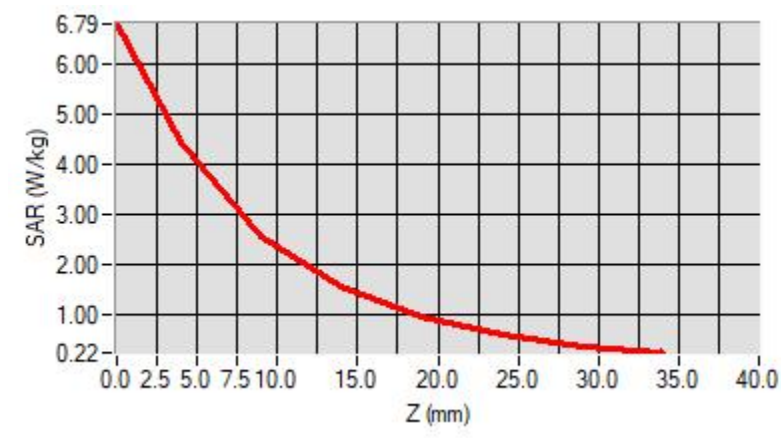
Maximum location: X=0.00, Y=0.00 ; SAR Peak: 6.73 W/kg

D. SAR 1g & 10g

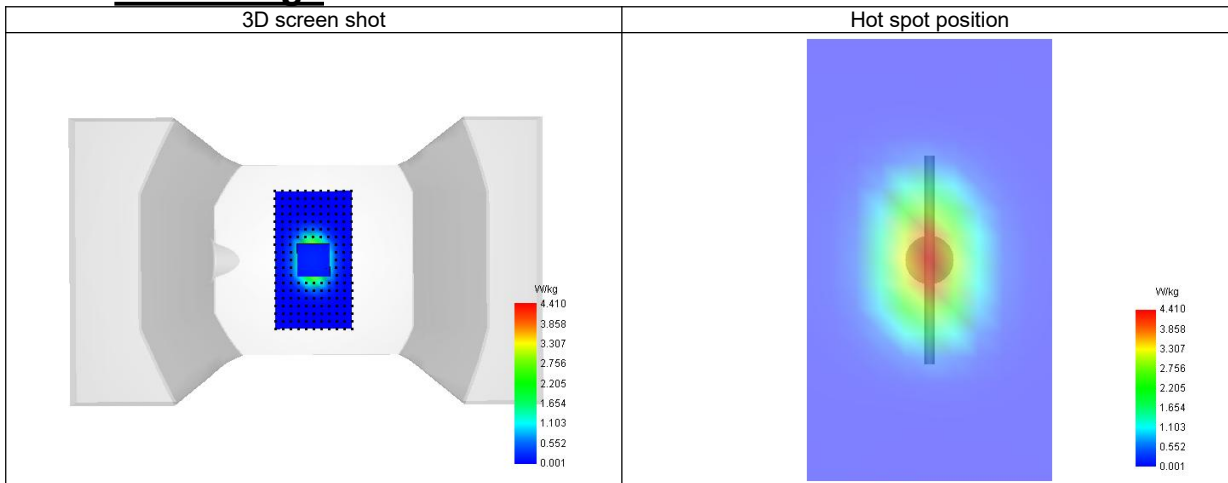
SAR 10g (W/Kg)	2.188
SAR 1g (W/Kg)	4.166
Variation (%)	-2.440
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	57.636585

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	6.787	4.409	2.541	1.528	0.930	0.570	0.352



F. 3D Image



System Performance Check Data (2450 MHz)

System check at 2450 MHz

Date of measurement: 16/8/2025

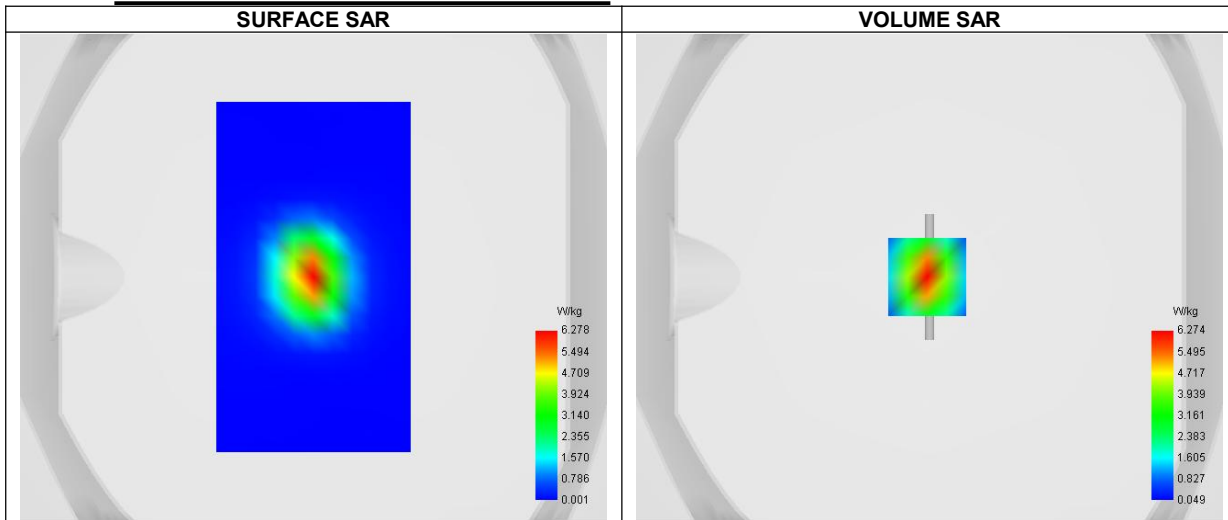
A. Experimental conditions.

Probe	0125-EPGO-445
ConvF	1.40
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5.0mm, Complete
Phantom	Validation plane
Device Position	Dipole
Band	CW2450
Channels/Frequency	Higher
Signal	CW

B. Permittivity

Middle TX Frequency (MHz)	2450.000
Relative permittivity (real part)	38.832
Relative permittivity (imaginary part)	13.657
Conductivity (S/m)	1.821

C. SAR Surface and Volume



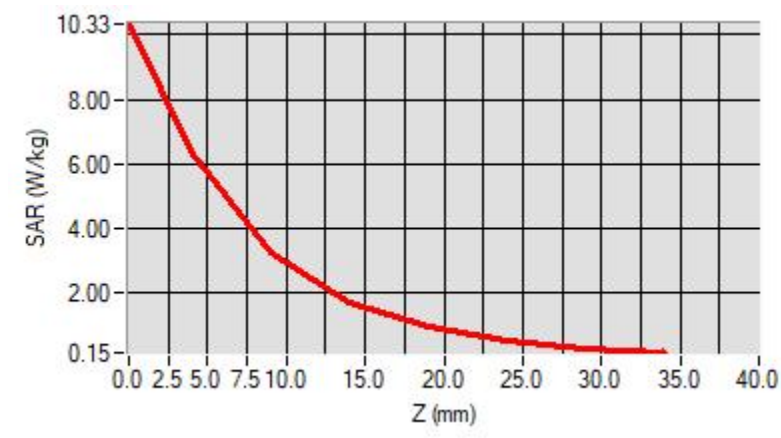
Maximum location: X=-1.00, Y=0.00 ; SAR Peak: 10.22 W/kg

D. SAR 1g & 10g

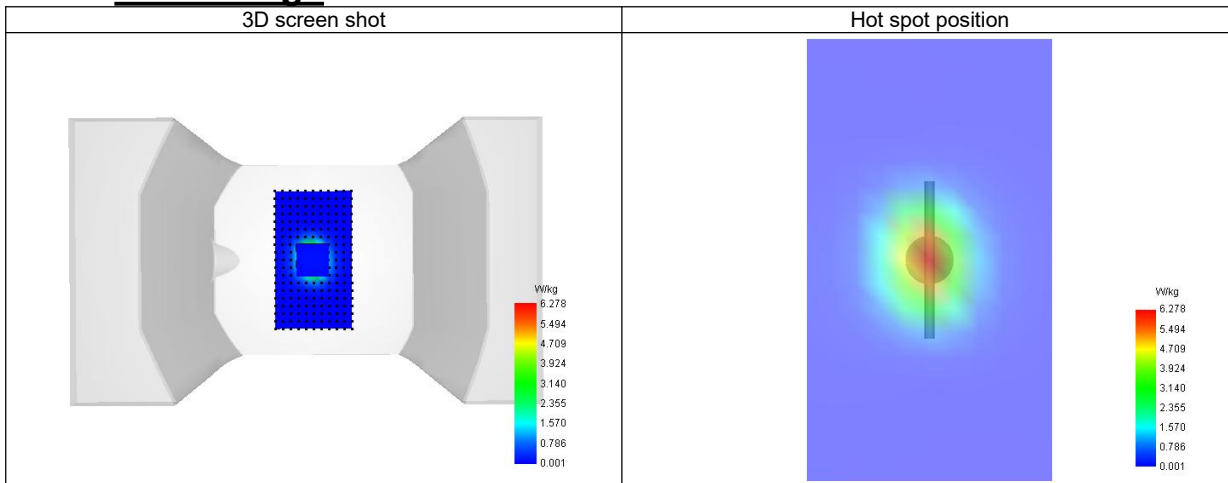
SAR 10g (W/Kg)	2.586
SAR 1g (W/Kg)	5.684
Variation (%)	-0.550
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	51.565921

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	10.329	6.274	3.235	1.727	0.935	0.499	0.273



F. 3D Image



System Performance Check Data (2600 MHz)

System check at 2600 MHz

Date of measurement: 17/8/2025

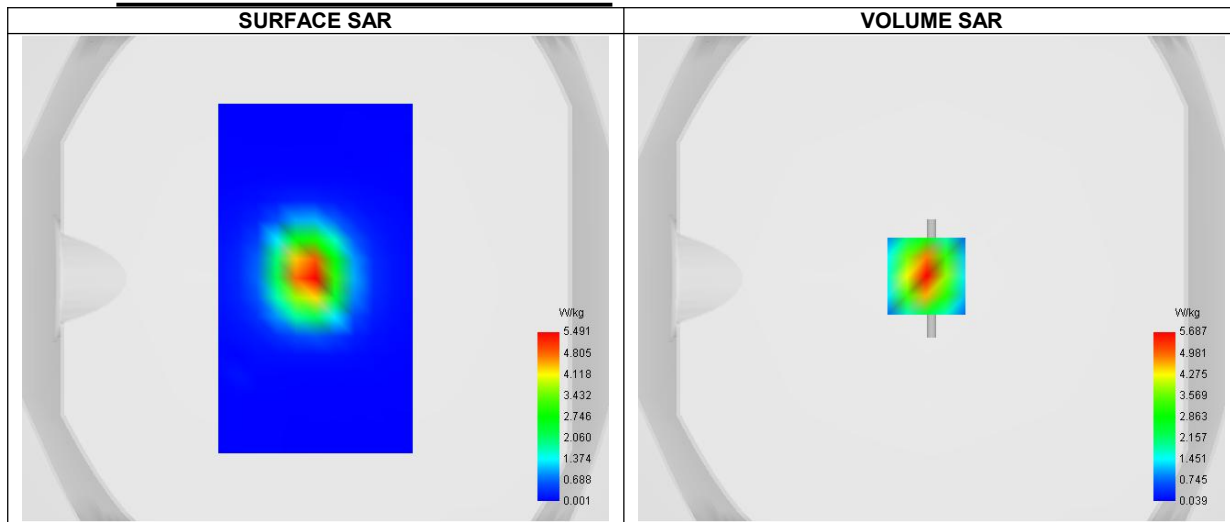
A. Experimental conditions.

Probe	0125-EPGO-445
ConvF	1.27
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5.0mm, Complete
Phantom	Validation plane
Device Position	Dipole
Band	CW2600
Channels/Frequency	Higher
Signal	CW

B. Permittivity

Middle TX Frequency (MHz)	2600.000
Relative permittivity (real part)	38.652
Relative permittivity (imaginary part)	12.664
Conductivity (S/m)	1.923

C. SAR Surface and Volume



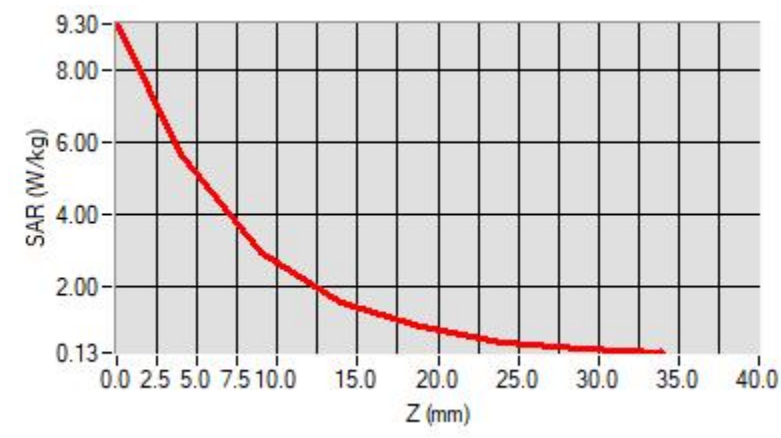
Maximum location: X=-2.00, Y=1.00 ; SAR Peak: 9.22 W/kg

D. SAR 1g & 10g

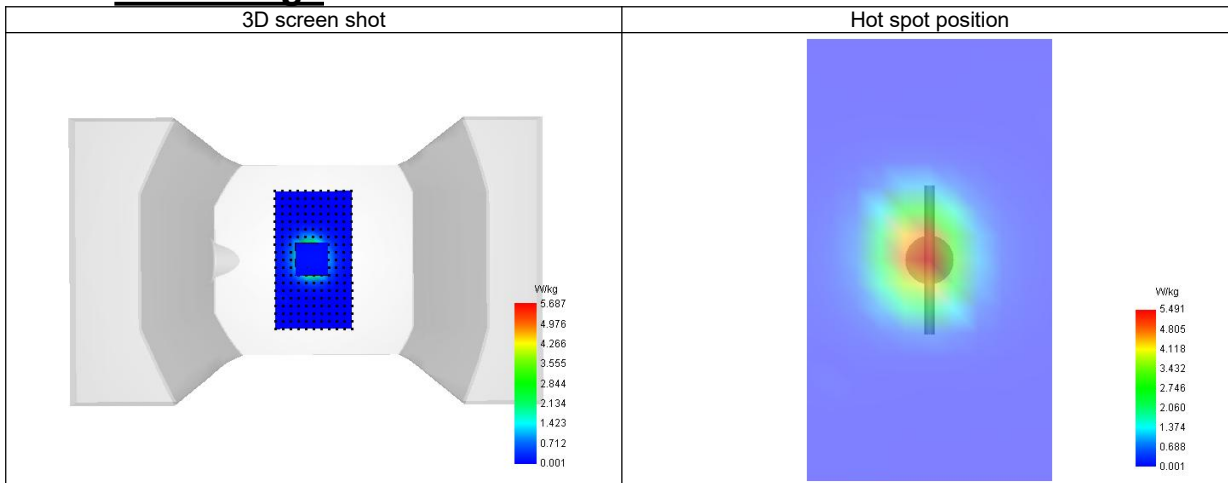
SAR 10g (W/Kg)	2.464
SAR 1g (W/Kg)	5.245
Variation (%)	4.270
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	51.955509

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	9.300	5.687	2.955	1.555	0.834	0.432	0.231



F. 3D Image



ANNEX C Test Data

1-Next-to-mouth: front position in dist. 10mm Channel 128 in GSM 850

SAR Measurement at GSM850 (Body, Validation Plane)

Date of measurement: 13/8/2025

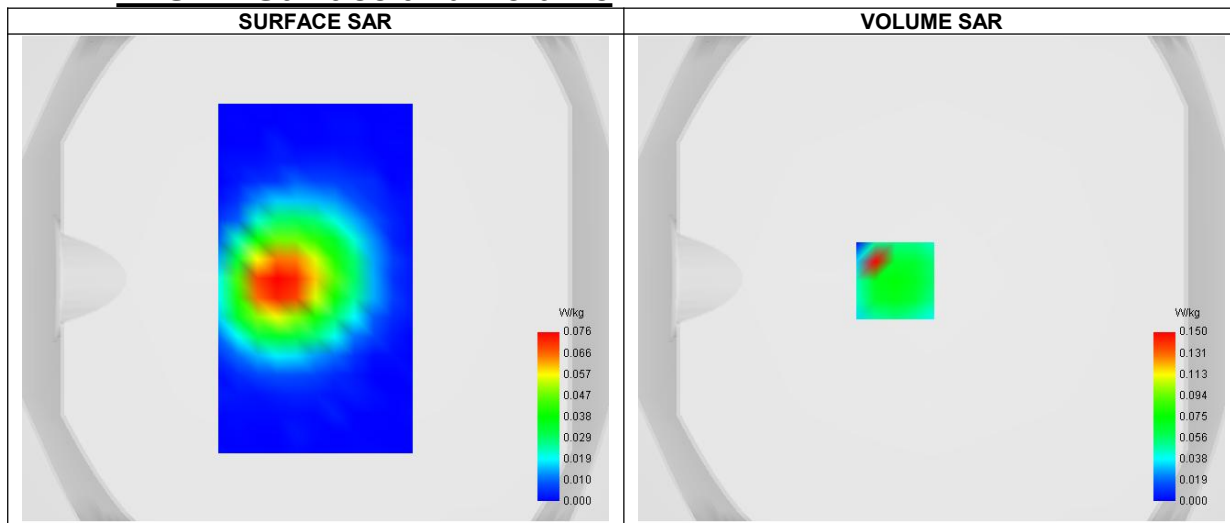
A. Experimental conditions.

Probe	0125-EPGO-445
ConvF	1.15
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5.0mm, Complete
Phantom	Validation plane
Device Position	Body
Band	GSM850
Channels/Frequency	Lower (128)/ frequency 824.200 Mhz
Signal	TDMA (GSM)
Modulation	GMSK

B. Permittivity

Middle TX Frequency (MHz)	824.200
Relative permittivity (real part)	41.779
Relative permittivity (imaginary part)	20.430
Conductivity (S/m)	0.905

C. SAR Surface and Volume



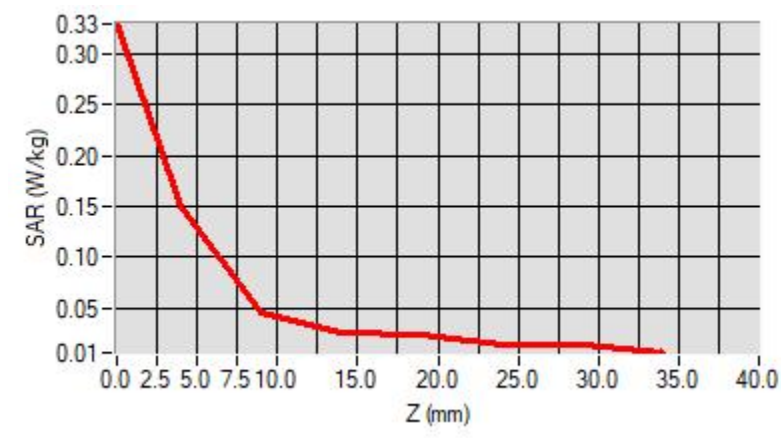
Maximum location: X=-15.00, Y=-1.00 ; SAR Peak: 0.34 W/kg

D. SAR 1g & 10g

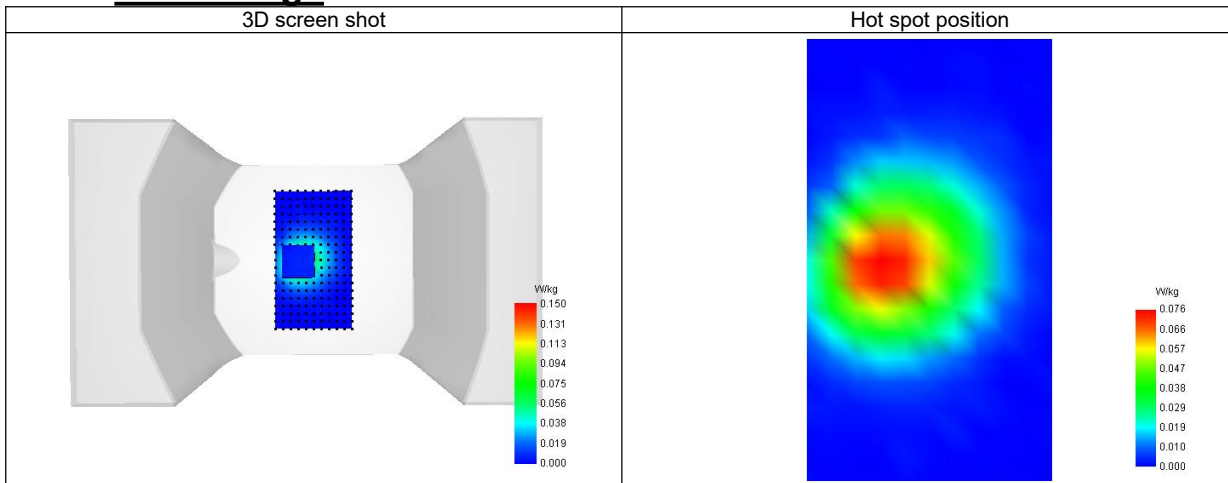
SAR 10g (W/Kg)	0.065
SAR 1g (W/Kg)	0.129
Variation (%)	-2.370
Horizontal validation criteria: minimum distance (mm)	8.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	35.915493

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.330	0.142	0.051	0.026	0.024	0.014	0.014



F. 3D Image



2-wrist-worn: back position in dist. 0mm Channel 128 in GPRS 850+2 slots

SAR Measurement at GPRS850 (Body, Validation Plane)

Date of measurement: 13/8/2025

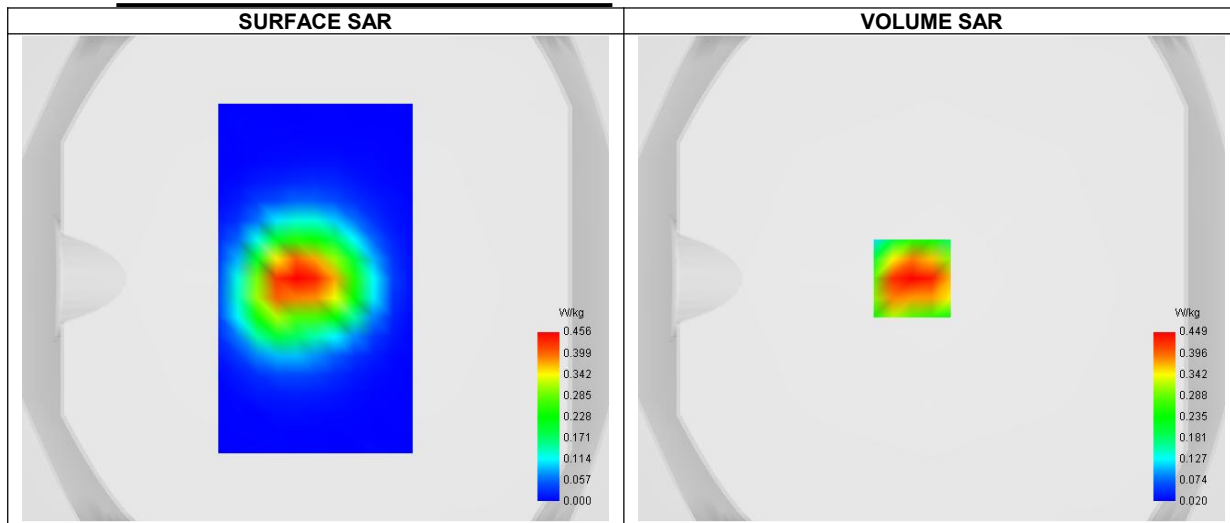
A. Experimental conditions.

Probe	0125-EPGO-445
ConvF	1.15
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5.0mm, Complete
Phantom	Validation plane
Device Position	Body
Band	GPRS850
Channels/Frequency	Lower (128)/ frequency 824.200 Mhz
Signal	TDMA (GPRS)
Modulation	GMSK (CS-1)
TX-slots	2

B. Permittivity

Middle TX Frequency (MHz)	824.200
Relative permittivity (real part)	41.779
Relative permittivity (imaginary part)	20.430
Conductivity (S/m)	0.905

C. SAR Surface and Volume



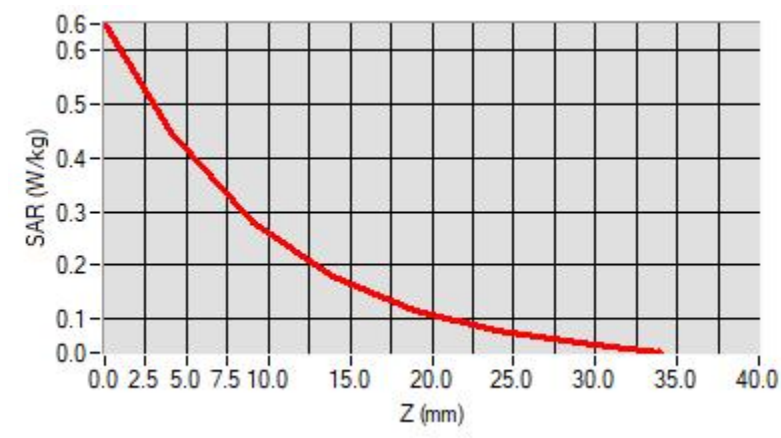
Maximum location: X=-8.00, Y=0.00 ; SAR Peak: 0.68 W/kg

D. SAR 1g & 10g

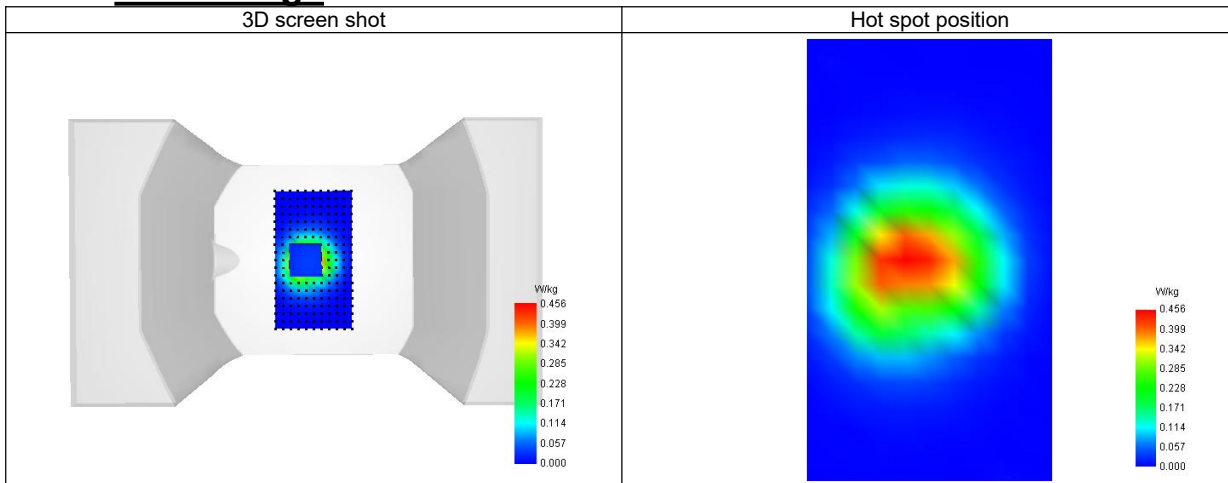
SAR 10g (W/Kg)	0.254
SAR 1g (W/Kg)	0.431
Variation (%)	-1.440
Horizontal validation criteria: minimum distance (mm)	17.888544
Vertical validation criteria: SAR ratio M2/M1 (%)	62.571742

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.649	0.449	0.281	0.181	0.117	0.078	0.055



F. 3D Image



3-Next-to-mouth: front position in dist. 10mm Channel 512 in GSM 1900

SAR Measurement at GSM1900 (Body, Validation Plane)

Date of measurement: 15/8/2025

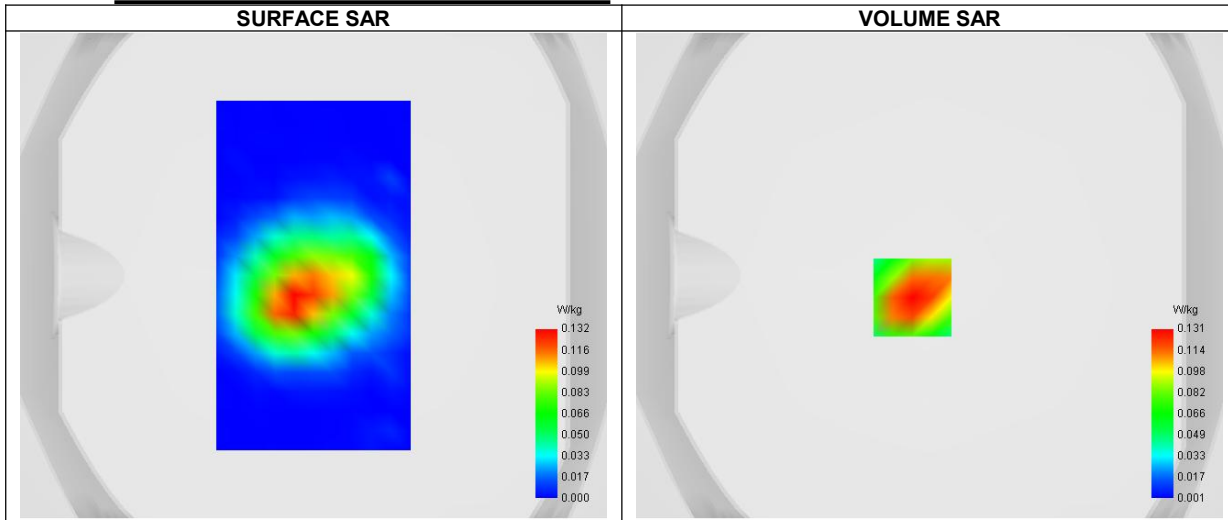
A. Experimental conditions.

Probe	0125-EPGO-445
ConvF	1.31
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5.0mm, Complete
Phantom	Validation plane
Device Position	Body
Band	GSM1900
Channels/Frequency	Lower (512)/ frequency 1850.200 Mhz
Signal	TDMA (GSM)
Modulation	GMSK

B. Permittivity

Middle TX Frequency (MHz)	1850.200
Relative permittivity (real part)	40.204
Relative permittivity (imaginary part)	16.018
Conductivity (S/m)	1.378

C. SAR Surface and Volume



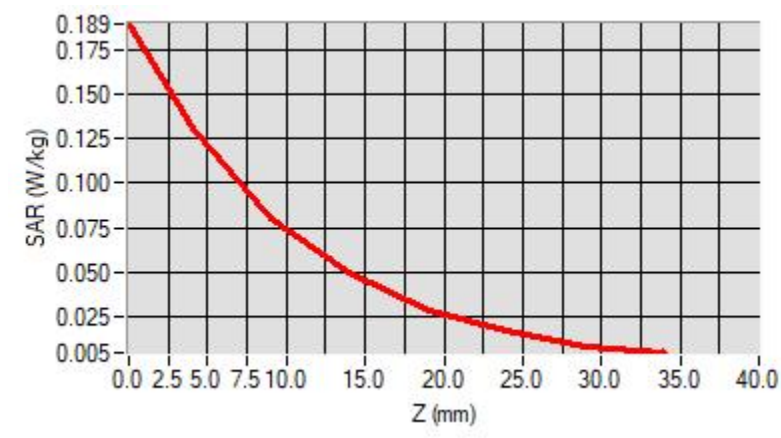
Maximum location: X=-7.00, Y=-9.00 ; SAR Peak: 0.19 W/kg

D. SAR 1g & 10g

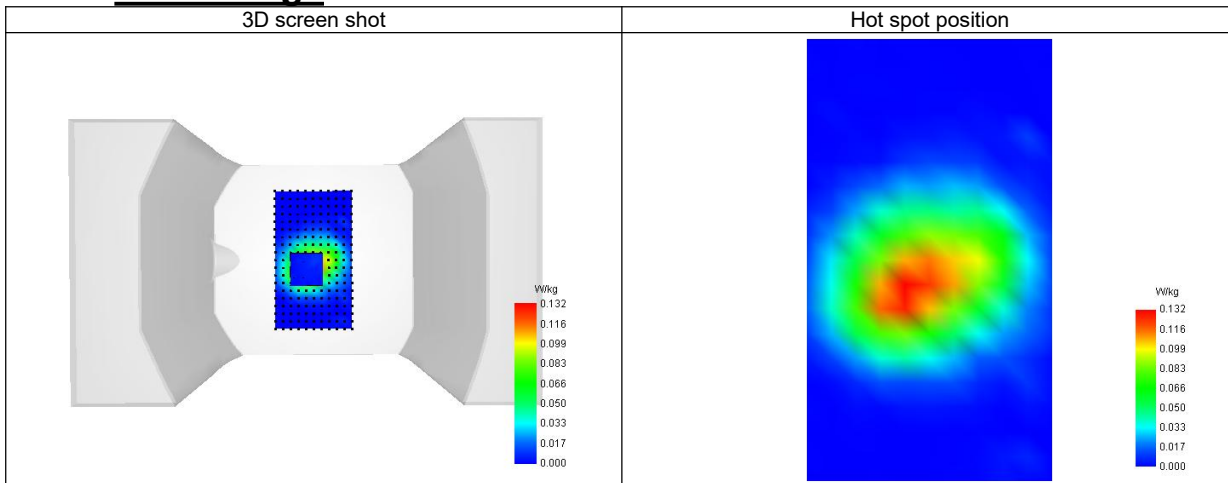
SAR 10g (W/Kg)	0.070
SAR 1g (W/Kg)	0.124
Variation (%)	-1.310
Horizontal validation criteria: minimum distance (mm)	17.888544
Vertical validation criteria: SAR ratio M2/M1 (%)	61.512388

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.189	0.131	0.080	0.050	0.029	0.017	0.009



F. 3D Image



4-wrist-worn: back position in dist. 0mm Channel 512 in GPRS 1900+3 slots

SAR Measurement at GPRS1900 (Body, Validation Plane)

Date of measurement: 15/8/2025

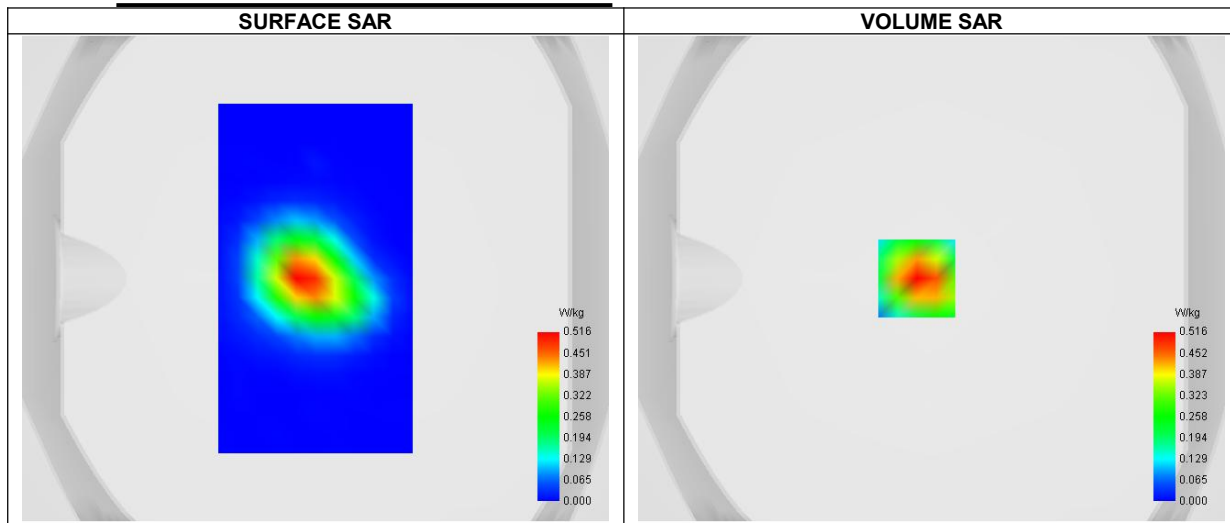
A. Experimental conditions.

Probe	0125-EPGO-445
ConvF	1.31
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5.0mm, Complete
Phantom	Validation plane
Device Position	Body
Band	GPRS1900
Channels/Frequency	Lower (512)/ frequency 1850.200 Mhz
Signal	TDMA (GPRS)
Modulation	GMSK (CS-1)
TX-slots	3

B. Permittivity

Middle TX Frequency (MHz)	1850.200
Relative permittivity (real part)	40.204
Relative permittivity (imaginary part)	16.018
Conductivity (S/m)	1.378

C. SAR Surface and Volume



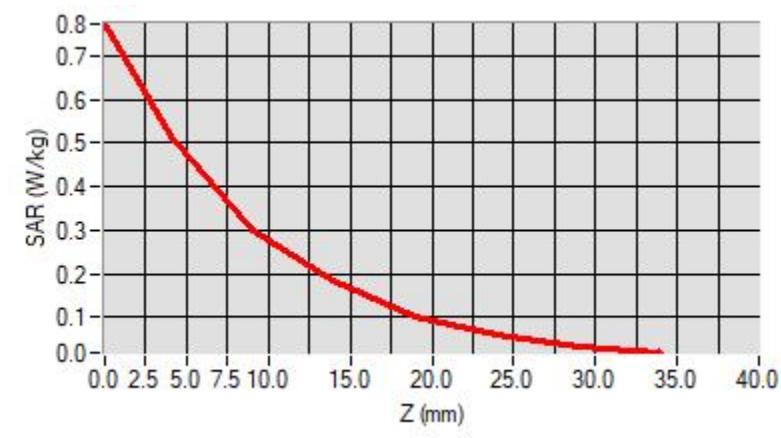
Maximum location: X=-6.00, Y=0.00 ; SAR Peak: 0.79 W/kg

D. SAR 1g & 10g

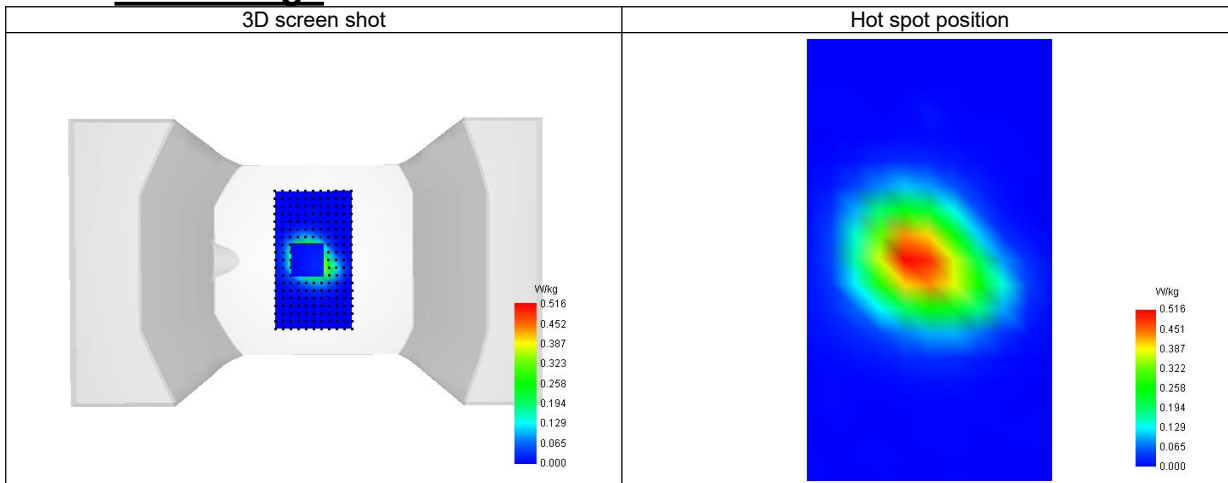
SAR 10g (W/Kg)	0.263
SAR 1g (W/Kg)	0.488
Variation (%)	3.930
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	58.403915

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.773	0.516	0.301	0.185	0.101	0.059	0.033



F. 3D Image



5-Next-to-mouth: front position in dist. 10mm Channel 9262 in WCDMA Band 2

SAR Measurement at Band 2 (1900) (Body, Validation Plane)

Date of measurement: 14/8/2025

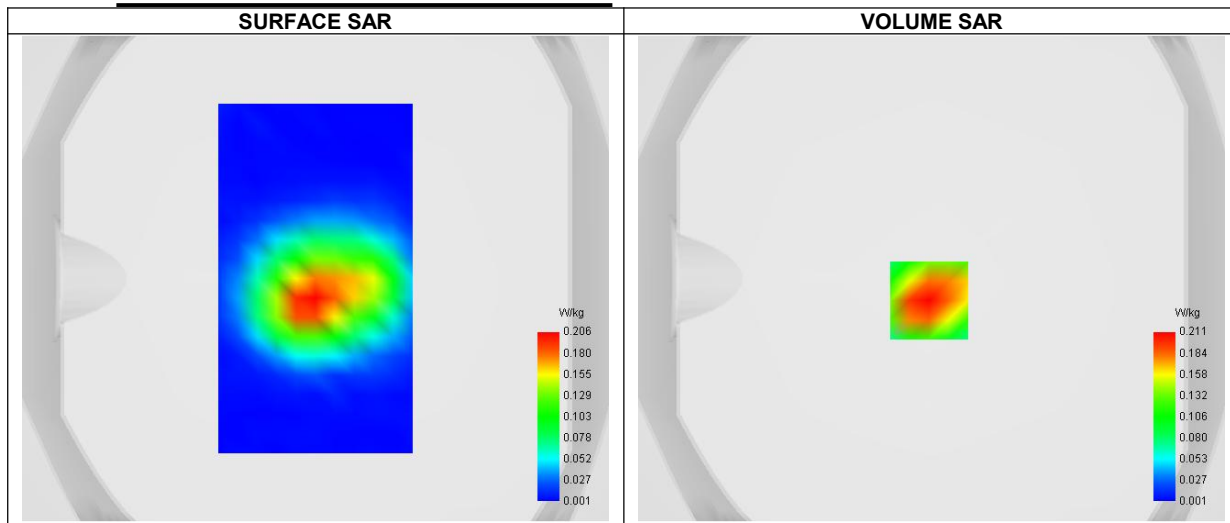
A. Experimental conditions.

Probe	0125-EPGO-445
ConvF	1.31
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5.0mm, Complete
Phantom	Validation plane
Device Position	Body
Band	Band 2 (1900)
Channels/Frequency	Lower (9262)/ frequency 1852.400 Mhz
Signal	WCDMA
Mode	Release 99
Connection Type	RMC, 12.2 kbps

B. Permittivity

Middle TX Frequency (MHz)	1852.400
Relative permittivity (real part)	40.203
Relative permittivity (imaginary part)	15.987
Conductivity (S/m)	1.378

C. SAR Surface and Volume



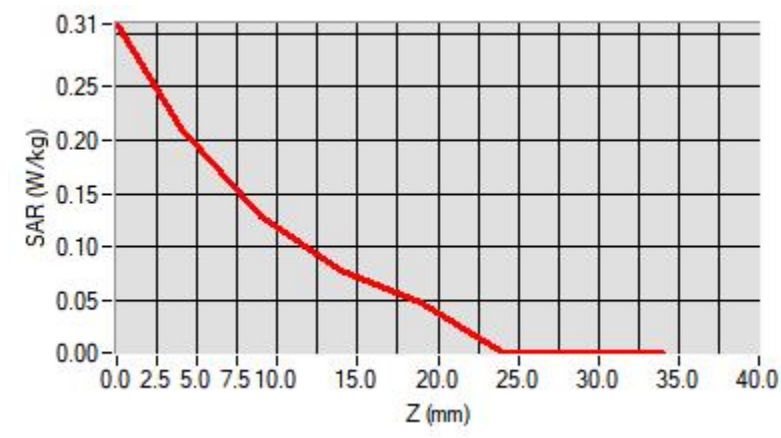
Maximum location: X=-1.00, Y=-9.00 ; SAR Peak: 0.32 W/kg

D. SAR 1g & 10g

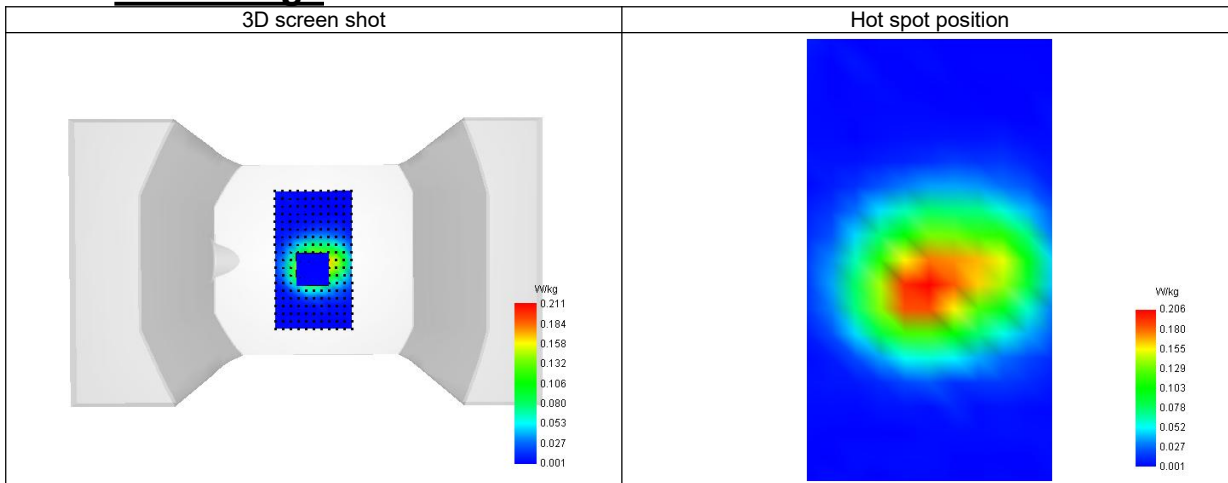
SAR 10g (W/Kg)	0.112
SAR 1g (W/Kg)	0.204
Variation (%)	-1.760
Horizontal validation criteria: minimum distance (mm)	17.888544
Vertical validation criteria: SAR ratio M2/M1 (%)	60.878857

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.309	0.211	0.128	0.079	0.048	0.001	0.001



F. 3D Image



6-wrist-worn: back position in dist. 0mm Channel 9262 in WCDMA Band 2

SAR Measurement at Band 2 (1900) (Body, Validation Plane)

Date of measurement: 14/8/2025

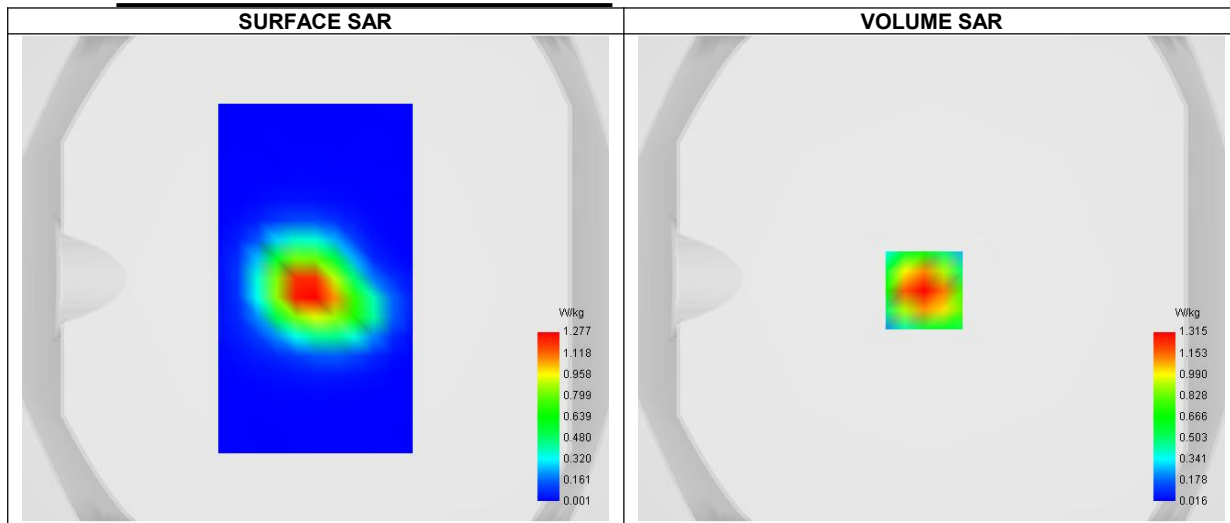
A. Experimental conditions.

Probe	0125-EPGO-445
ConvF	1.31
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5.0mm, Complete
Phantom	Validation plane
Device Position	Body
Band	Band 2 (1900)
Channels/Frequency	Lower (9262)/ frequency 1852.400 Mhz
Signal	WCDMA
Mode	Release 99
Connection Type	RMC, 12.2 kbps

B. Permittivity

Middle TX Frequency (MHz)	1852.400
Relative permittivity (real part)	40.203
Relative permittivity (imaginary part)	15.987
Conductivity (S/m)	1.378

C. SAR Surface and Volume



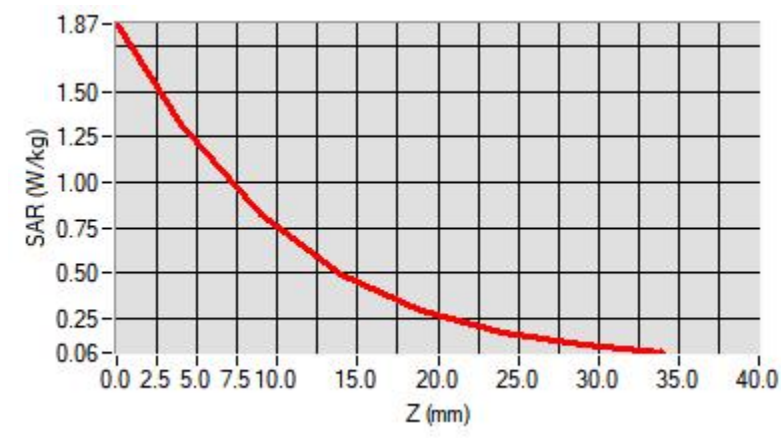
Maximum location: X=-3.00, Y=-5.00 ; SAR Peak: 1.98 W/kg

D. SAR 1g & 10g

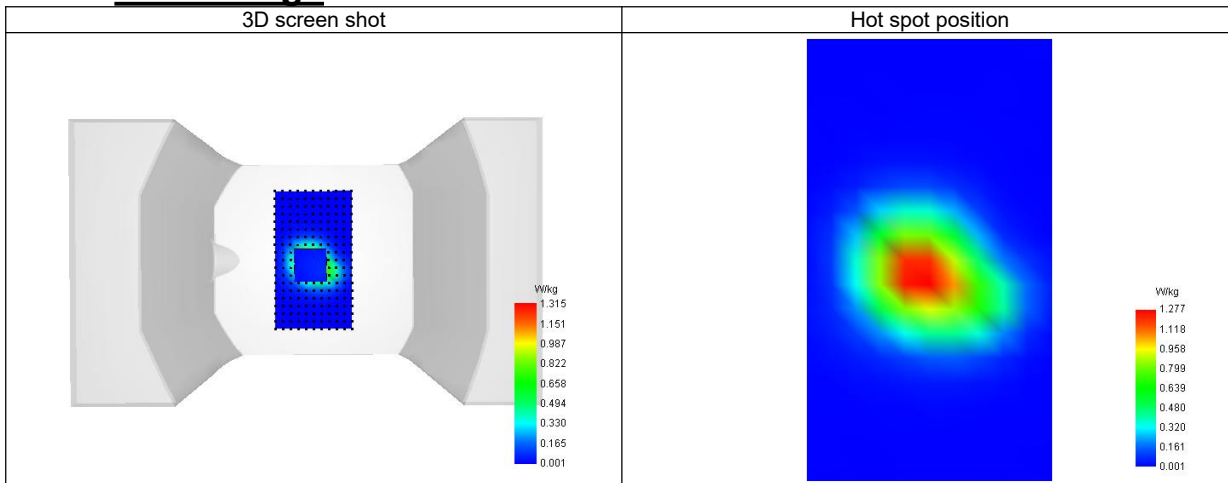
SAR 10g (W/Kg)	0.686
SAR 1g (W/Kg)	1.247
Variation (%)	-3.290
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	62.245967

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.871	1.315	0.819	0.493	0.289	0.169	0.102



F. 3D Image



7-Next-to-mouth: front position in dist. 10mm Channel 1312 in WCDMA Band 4

SAR Measurement at Band 4 (1700) (Body, Validation Plane)

Date of measurement: 14/8/2025

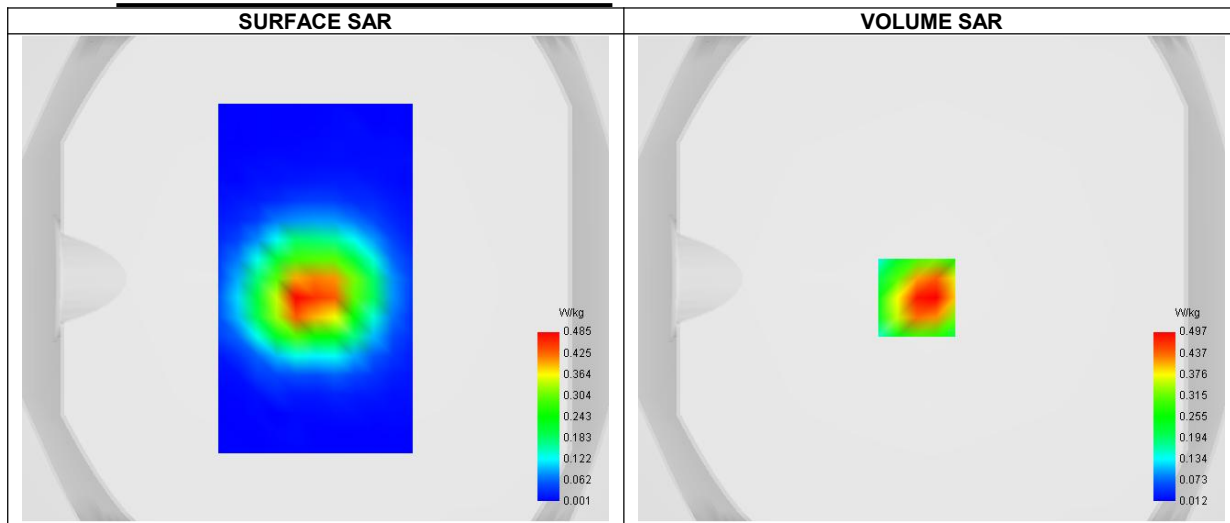
A. Experimental conditions.

Probe	0125-EPGO-445
ConvF	1.20
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5.0mm, Complete
Phantom	Validation plane
Device Position	Body
Band	Band 4 (1700)
Channels/Frequency	Lower (1312)/ frequency 1712.400 Mhz
Signal	WCDMA
Mode	Release 99
Connection Type	RMC, 12.2 kbps

B. Permittivity

Middle TX Frequency (MHz)	1712.400
Relative permittivity (real part)	40.371
Relative permittivity (imaginary part)	17.043
Conductivity (S/m)	1.325

C. SAR Surface and Volume

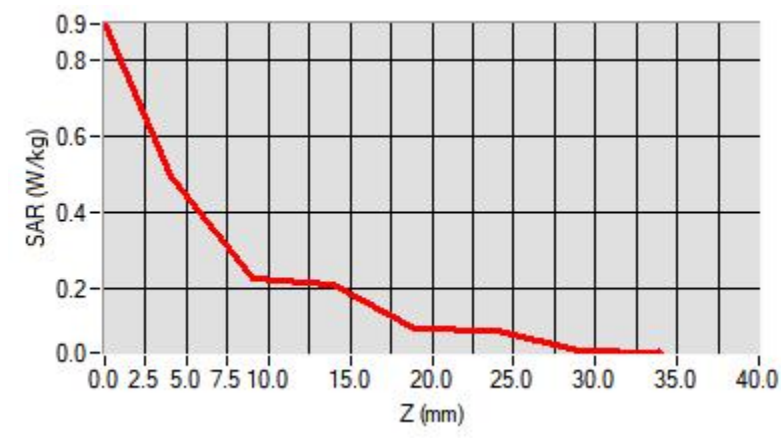


D. SAR 1g & 10g

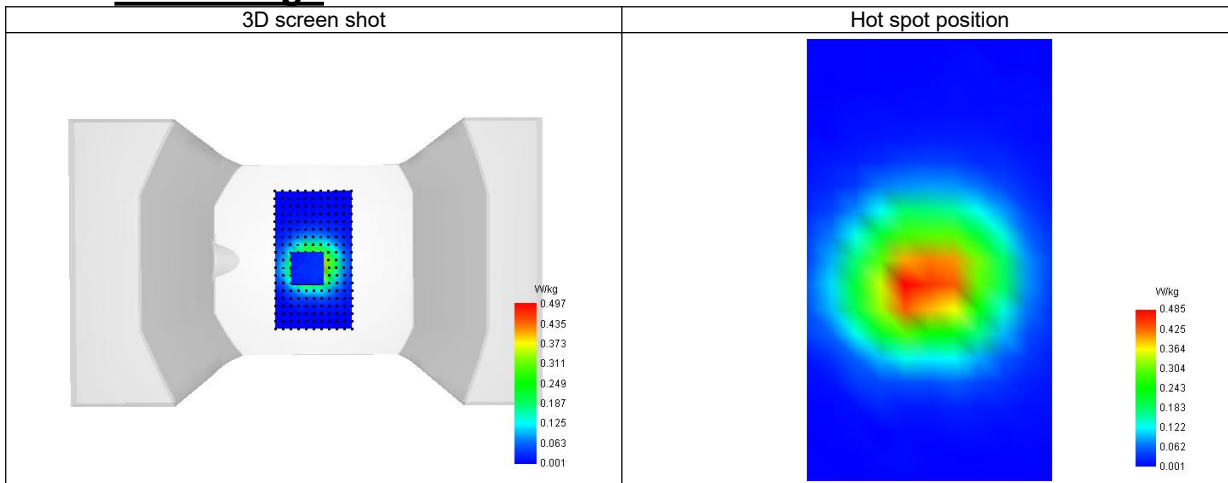
SAR 10g (W/Kg)	0.278
SAR 1g (W/Kg)	0.478
Variation (%)	3.110
Horizontal validation criteria: minimum distance (mm)	17.888544
Vertical validation criteria: SAR ratio M2/M1 (%)	65.595872

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.896	0.497	0.229	0.211	0.094	0.090	0.037



F. 3D Image



8-wrist-worn: back position in dist. 0mm Channel 1312 in WCDMA Band 4

SAR Measurement at Band 4 (1700) (Body, Validation Plane)

Date of measurement: 14/8/2025

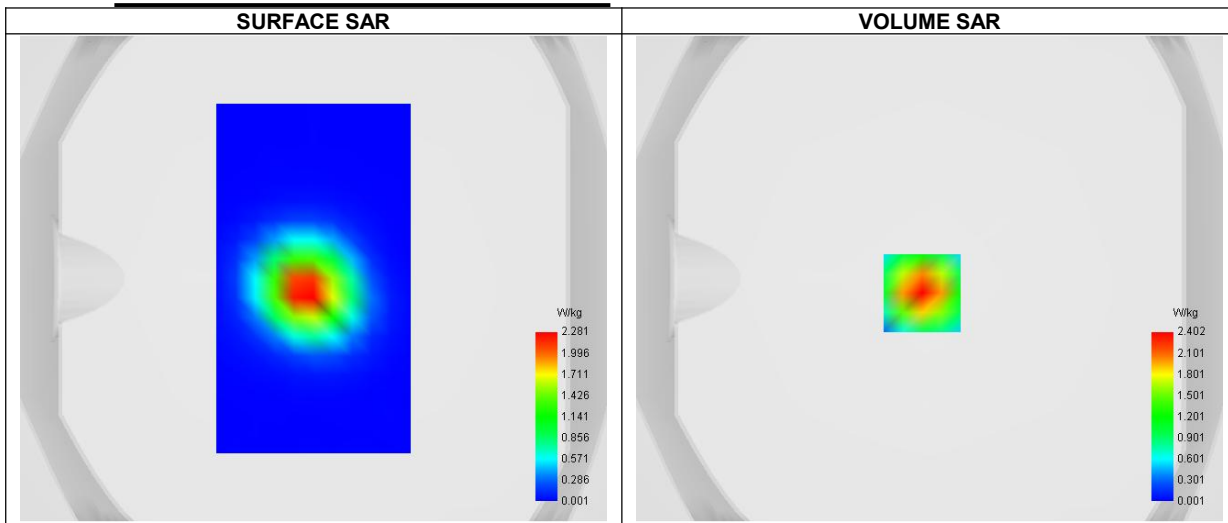
A. Experimental conditions.

Probe	0125-EPGO-445
ConvF	1.20
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5.0mm, Complete
Phantom	Validation plane
Device Position	Body
Band	Band 4 (1700)
Channels/Frequency	Lower (1312)/ frequency 1712.400 Mhz
Signal	WCDMA
Mode	Release 99
Connection Type	RMC, 12.2 kbps

B. Permittivity

Middle TX Frequency (MHz)	1712.400
Relative permittivity (real part)	40.371
Relative permittivity (imaginary part)	17.043
Conductivity (S/m)	1.325

C. SAR Surface and Volume



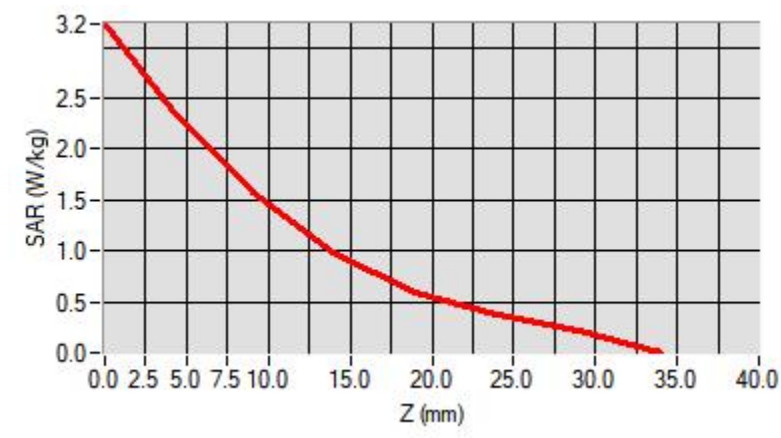
Maximum location: X=-3.00, Y=-6.00 ; SAR Peak: 3.33 W/kg

D. SAR 1g & 10g

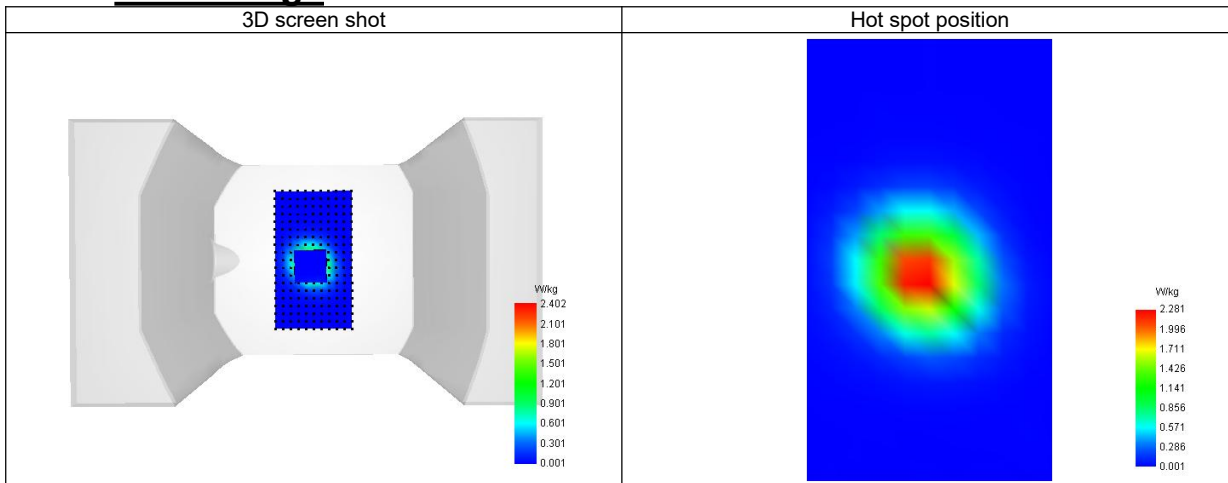
SAR 10g (W/Kg)	1.234
SAR 1g (W/Kg)	2.208
Variation (%)	-1.590
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	65.257593

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	3.229	2.402	1.567	0.979	0.600	0.366	0.222



F. 3D Image



9-Next-to-mouth: front position in dist. 10mm Channel 4233 in WCDMA Band 5

SAR Measurement at Band 5 (850) (Body, Validation Plane)

Date of measurement: 13/8/2025

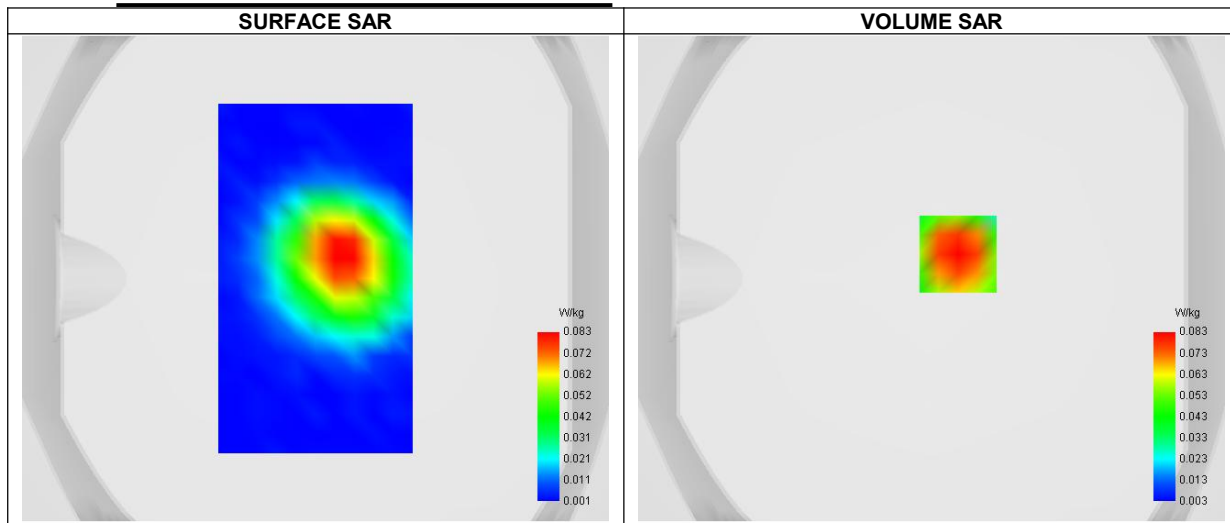
A. Experimental conditions.

Probe	0125-EPGO-445
ConvF	1.15
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5.0mm, Complete
Phantom	Validation plane
Device Position	Body
Band	Band 5 (850)
Channels/Frequency	Higher (4233)/ frequency 846.600 Mhz
Signal	WCDMA
Mode	Release 99
Connection Type	RMC, 12.2 kbps

B. Permittivity

Middle TX Frequency (MHz)	846.600
Relative permittivity (real part)	41.754
Relative permittivity (imaginary part)	20.282
Conductivity (S/m)	0.912

C. SAR Surface and Volume



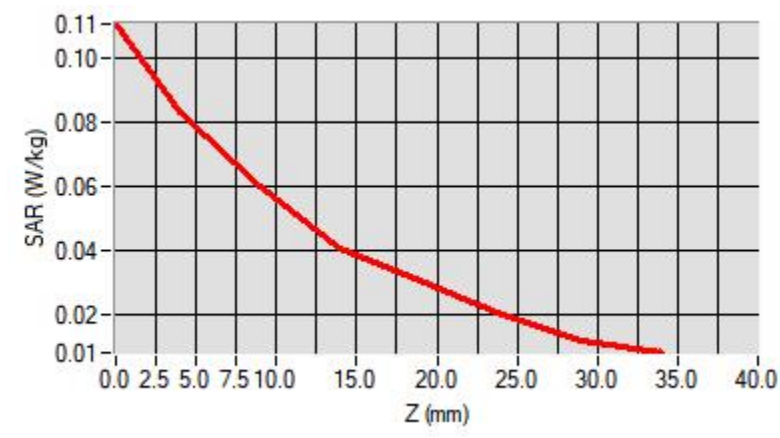
Maximum location: X=11.00, Y=10.00 ; SAR Peak: 0.12 W/kg

D. SAR 1g & 10g

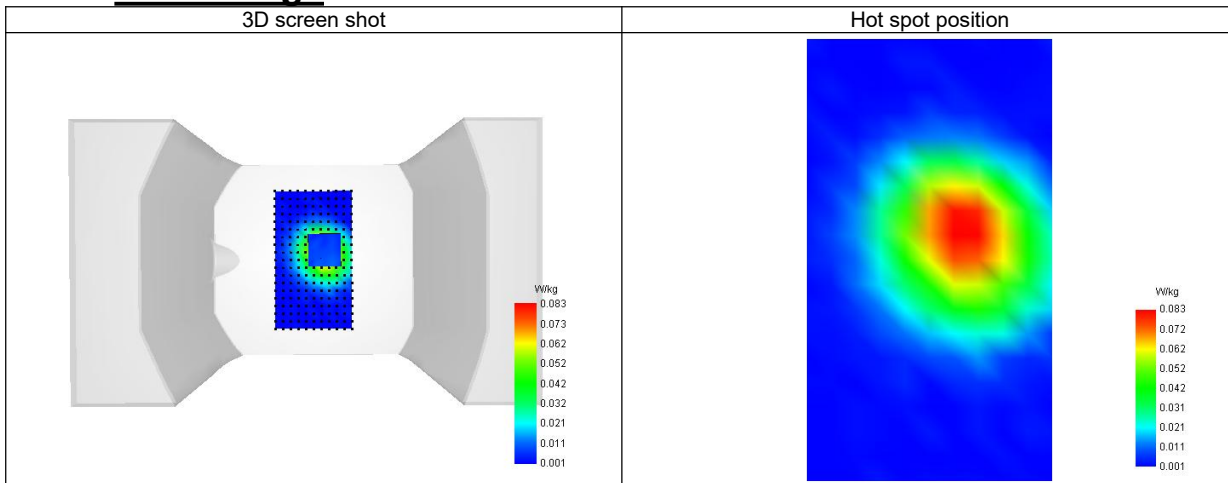
SAR 10g (W/Kg)	0.050
SAR 1g (W/Kg)	0.080
Variation (%)	-2.130
Horizontal validation criteria: minimum distance (mm)	22.627417
Vertical validation criteria: SAR ratio M2/M1 (%)	72.339368

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.111	0.083	0.060	0.040	0.030	0.020	0.012



F. 3D Image



10-wrist-worn: back position in dist. 0mm Channel 4233 in WCDMA Band 5

SAR Measurement at Band 5 (850) (Body, Validation Plane)

Date of measurement: 13/8/2025

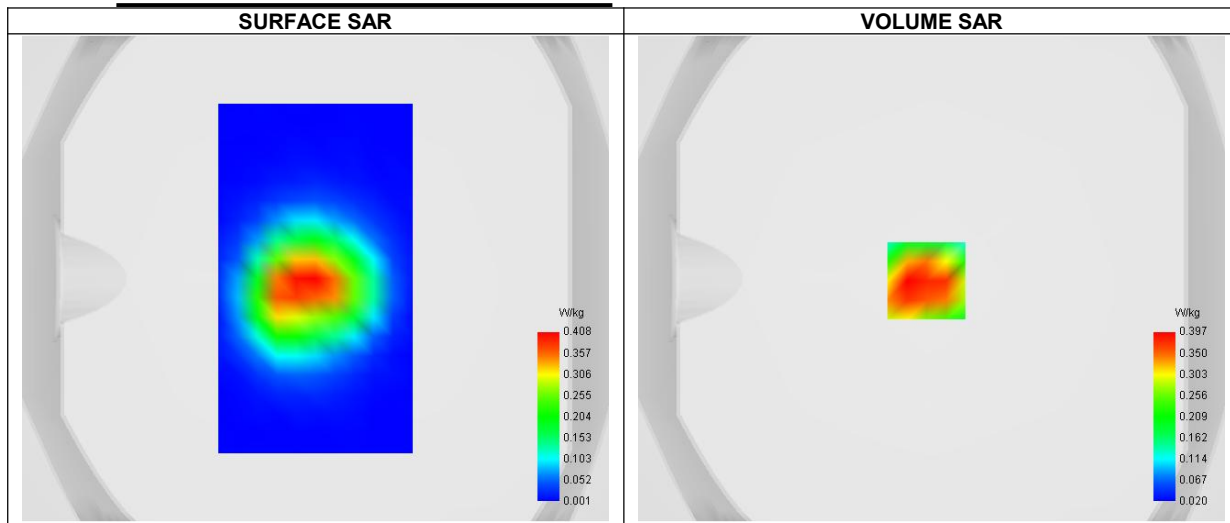
A. Experimental conditions.

Probe	0125-EPGO-445
ConvF	1.15
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5.0mm, Complete
Phantom	Validation plane
Device Position	Body
Band	Band 5 (850)
Channels/Frequency	Higher (4233)/ frequency 846.600 Mhz
Signal	WCDMA
Mode	Release 99
Connection Type	RMC, 12.2 kbps

B. Permittivity

Middle TX Frequency (MHz)	846.600
Relative permittivity (real part)	41.754
Relative permittivity (imaginary part)	20.282
Conductivity (S/m)	0.912

C. SAR Surface and Volume



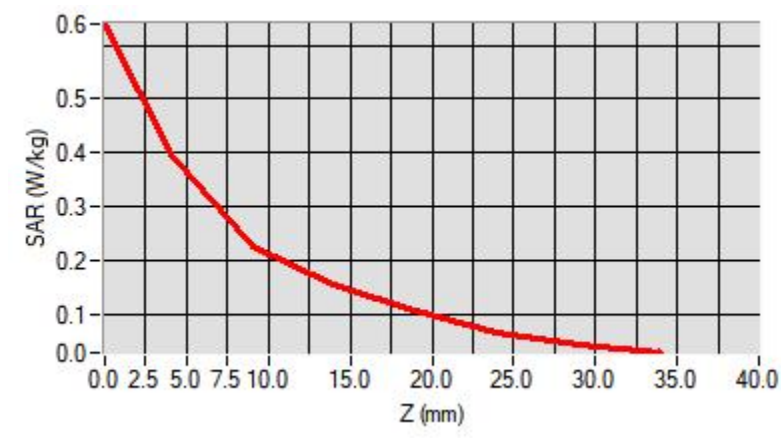
Maximum location: X=-2.00, Y=-1.00 ; SAR Peak: 0.59 W/kg

D. SAR 1g & 10g

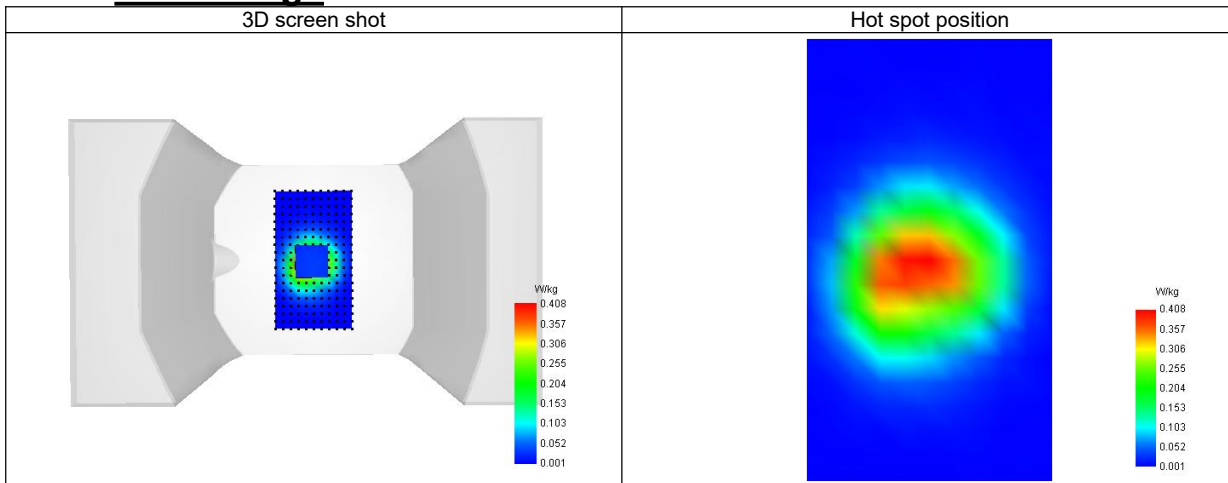
SAR 10g (W/Kg)	0.226
SAR 1g (W/Kg)	0.378
Variation (%)	-0.190
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	61.053932

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.639	0.397	0.228	0.157	0.108	0.069	0.043



F. 3D Image



11-Next-to-mouth: front position in dist. 10mm Channel 18700 in LTE Band 2

SAR Measurement at LTE band 2 (Body, Validation Plane)

Date of measurement: 15/8/2025

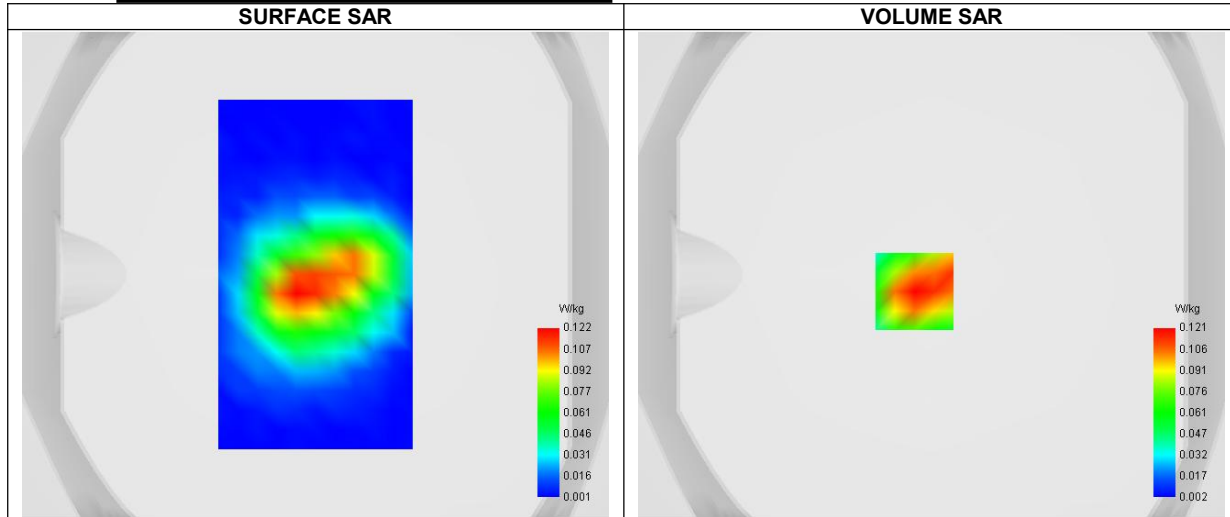
A. Experimental conditions.

Probe	0125-EPGO-445
ConvF	1.31
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5.0mm, Complete
Phantom	Validation plane
Device Position	Body
Band	LTE band 2
Channels/Frequency	Lower (18700)/ frequency 1860.000 Mhz
Signal	LTE FDD
Cell Bandwidth	20 Mhz
Modulation	SC-OFDM - QPSK
RB offset	50
RB size	1

B. Permittivity

Middle TX Frequency (MHz)	1860.090
Relative permittivity (real part)	40.199
Relative permittivity (imaginary part)	15.880
Conductivity (S/m)	1.380

C. SAR Surface and Volume



Maximum location: X=-7.00, Y=-7.00 ; SAR Peak: 0.19 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.069
SAR 1g (W/Kg)	0.117
Variation (%)	2.300
Horizontal validation criteria: minimum distance (mm)	17.888544
Vertical validation criteria: SAR ratio M2/M1 (%)	68.035731

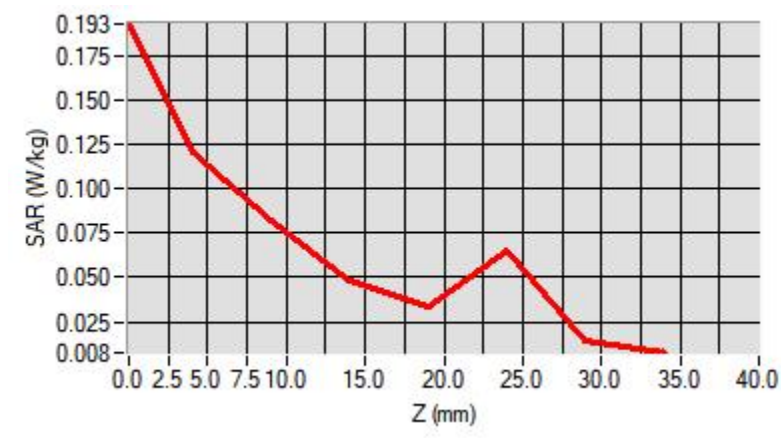
E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.193	0.121	0.082	0.049	0.034	0.065	0.014

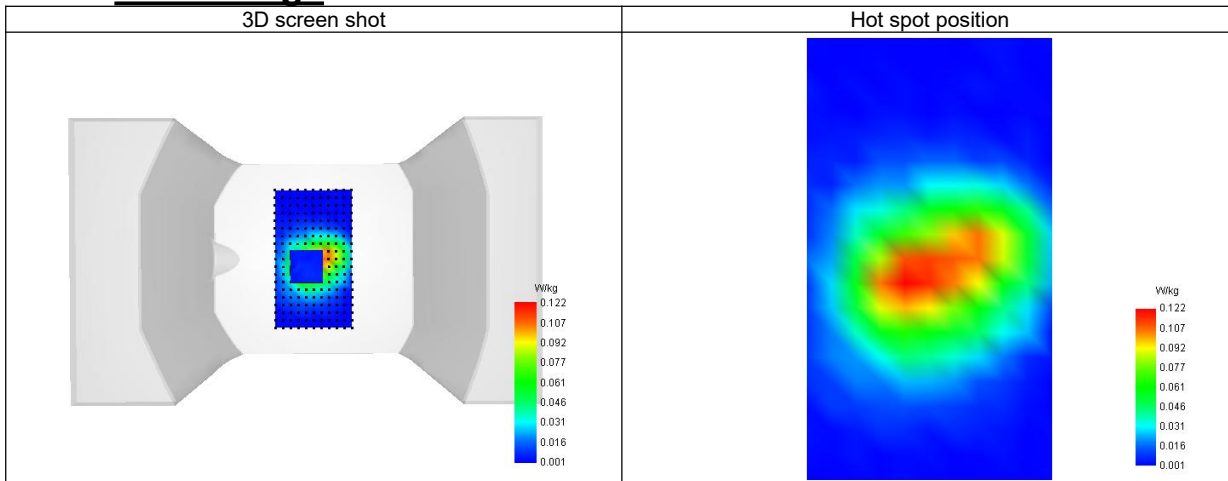
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F. 3D Image



12-wrist-worn: back position in dist. 0mm Channel 18700 in LTE Band 2

SAR Measurement at LTE band 2 (Body, Validation Plane)

Date of measurement: 15/8/2025

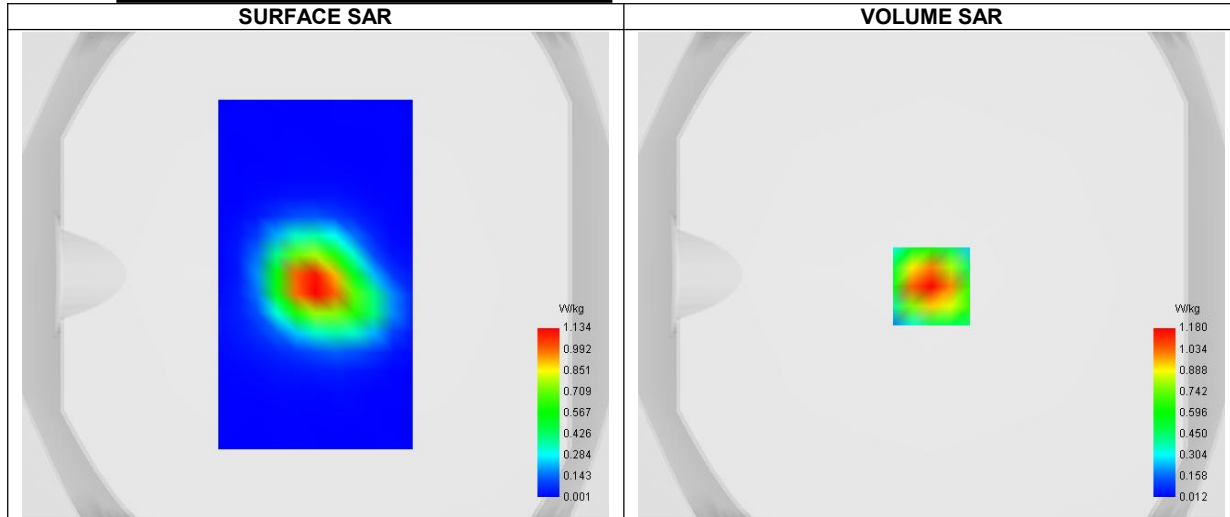
A. Experimental conditions.

Probe	0125-EPGO-445
ConvF	1.31
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5.0mm, Complete
Phantom	Validation plane
Device Position	Body
Band	LTE band 2
Channels/Frequency	Lower (18700)/ frequency 1860.000 Mhz
Signal	LTE FDD
Cell Bandwidth	20 Mhz
Modulation	SC-OFDM - QPSK
RB offset	50
RB size	1

B. Permittivity

Middle TX Frequency (MHz)	1860.090
Relative permittivity (real part)	40.199
Relative permittivity (imaginary part)	15.880
Conductivity (S/m)	1.380

C. SAR Surface and Volume



Maximum location: X=0.00, Y=-5.00 ; SAR Peak: 1.80 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.605
SAR 1g (W/Kg)	1.118
Variation (%)	2.550
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	61.446005

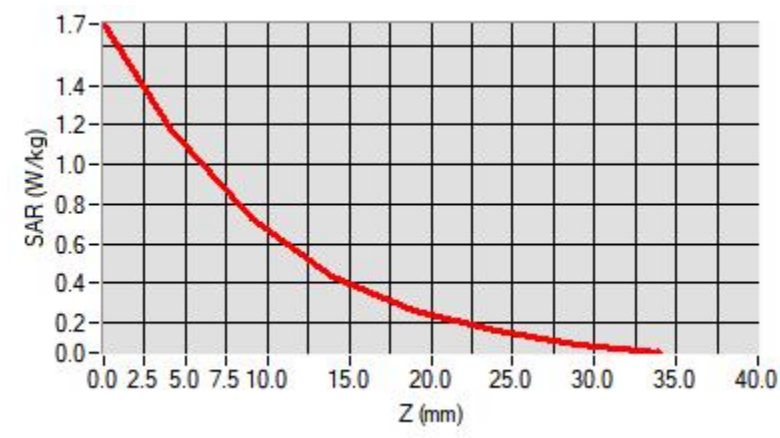
E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.712	1.180	0.725	0.435	0.259	0.156	0.087

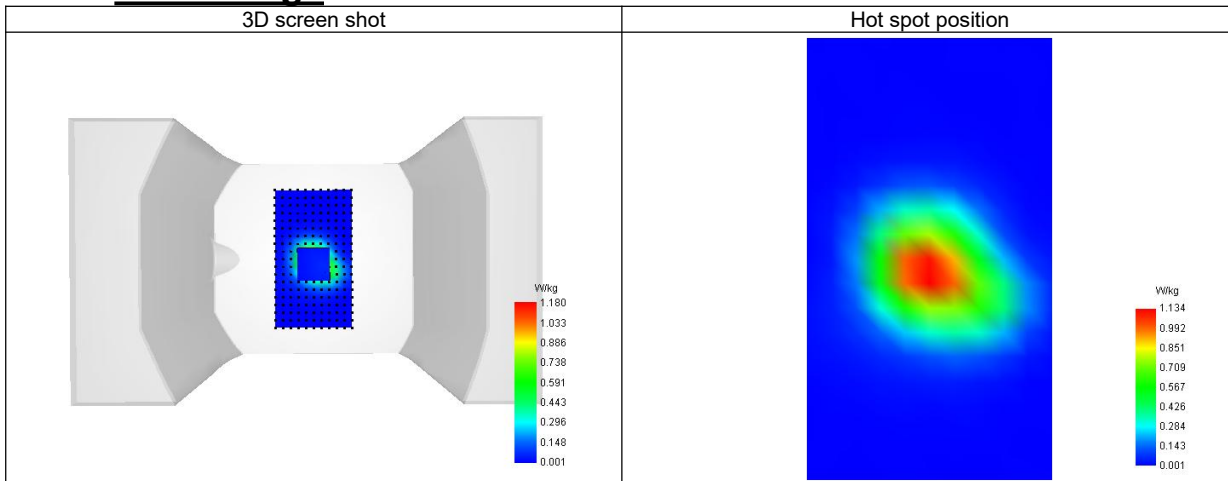
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F. 3D Image



13-Next-to-mouth: front position in dist. 10mm Channel 20050 in LTE Band 4

SAR Measurement at LTE band 4 (Body, Validation Plane)

Date of measurement: 14/8/2025

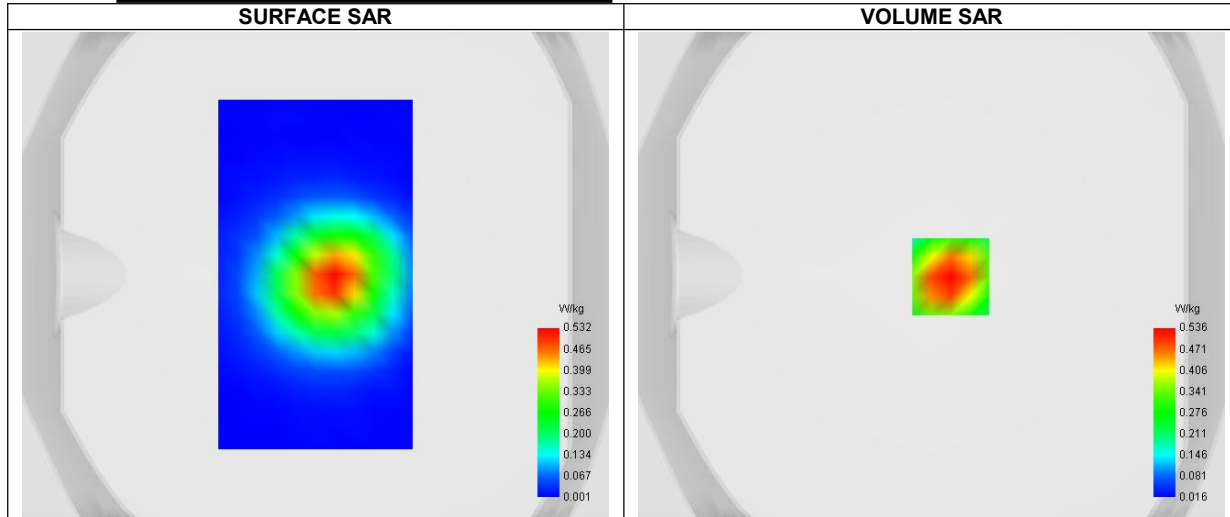
A. Experimental conditions.

Probe	0125-EPGO-445
ConvF	1.20
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5.0mm, Complete
Phantom	Validation plane
Device Position	Body
Band	LTE band 4
Channels/Frequency	Lower (20050)/ frequency 1720.000 Mhz
Signal	LTE FDD
Cell Bandwidth	20 Mhz
Modulation	SC-OFDM - QPSK
RB offset	50
RB size	1

B. Permittivity

Middle TX Frequency (MHz)	1720.090
Relative permittivity (real part)	40.359
Relative permittivity (imaginary part)	17.014
Conductivity (S/m)	1.329

C. SAR Surface and Volume

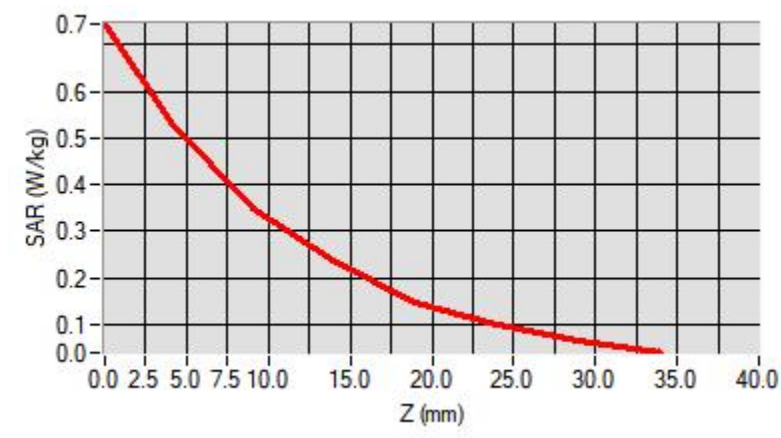


D. SAR 1g & 10g

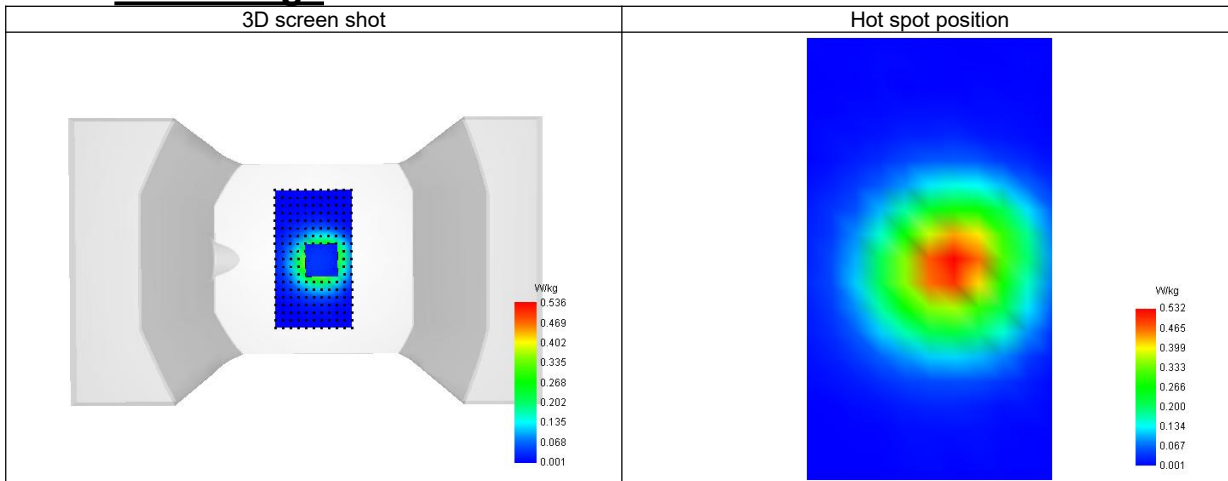
SAR 10g (W/Kg)	0.306
SAR 1g (W/Kg)	0.511
Variation (%)	3.910
Horizontal validation criteria: minimum distance (mm)	17.888544
Vertical validation criteria: SAR ratio M2/M1 (%)	65.085709

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.745	0.536	0.349	0.237	0.148	0.099	0.063



F. 3D Image



14-wrist-worn: back position in dist. 0mm Channel 20050 in LTE Band 4

SAR Measurement at LTE band 4 (Body, Validation Plane)

Date of measurement: 14/8/2025

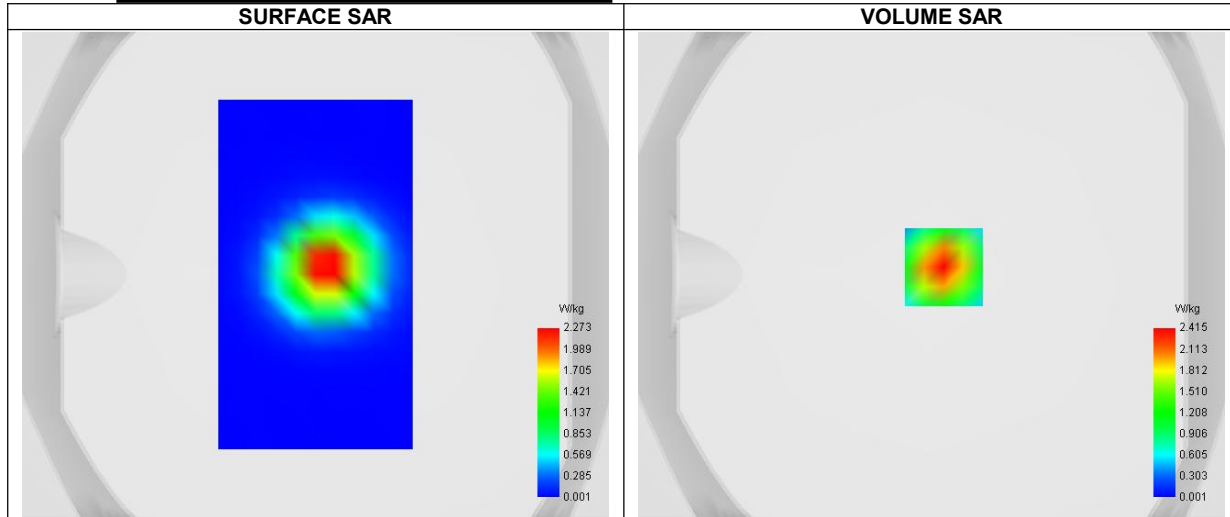
A. Experimental conditions.

Probe	0125-EPGO-445
ConvF	1.20
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5.0mm, Complete
Phantom	Validation plane
Device Position	Body
Band	LTE band 4
Channels/Frequency	Lower (20050)/ frequency 1720.000 Mhz
Signal	LTE FDD
Cell Bandwidth	20 Mhz
Modulation	SC-OFDM - QPSK
RB offset	50
RB size	1

B. Permittivity

Middle TX Frequency (MHz)	1720.090
Relative permittivity (real part)	40.359
Relative permittivity (imaginary part)	17.014
Conductivity (S/m)	1.329

C. SAR Surface and Volume



Maximum location: X=5.00, Y=3.00 ; SAR Peak: 5.43 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.934
SAR 1g (W/Kg)	2.397
Variation (%)	-3.120
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	66.325769

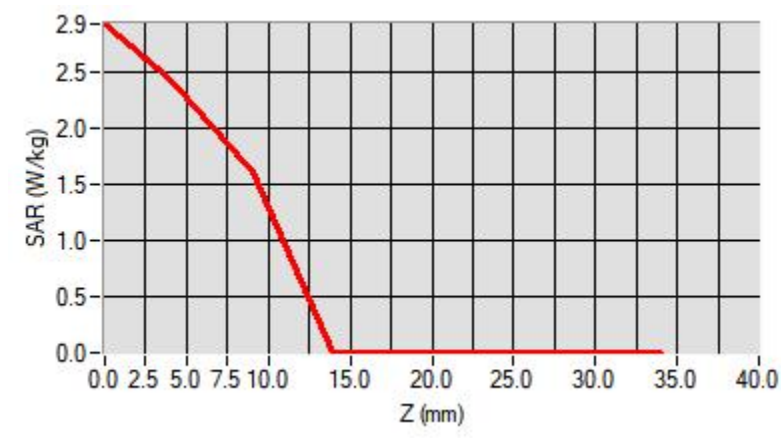
E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	2.923	2.415	1.602	0.001	0.001	0.004	0.001

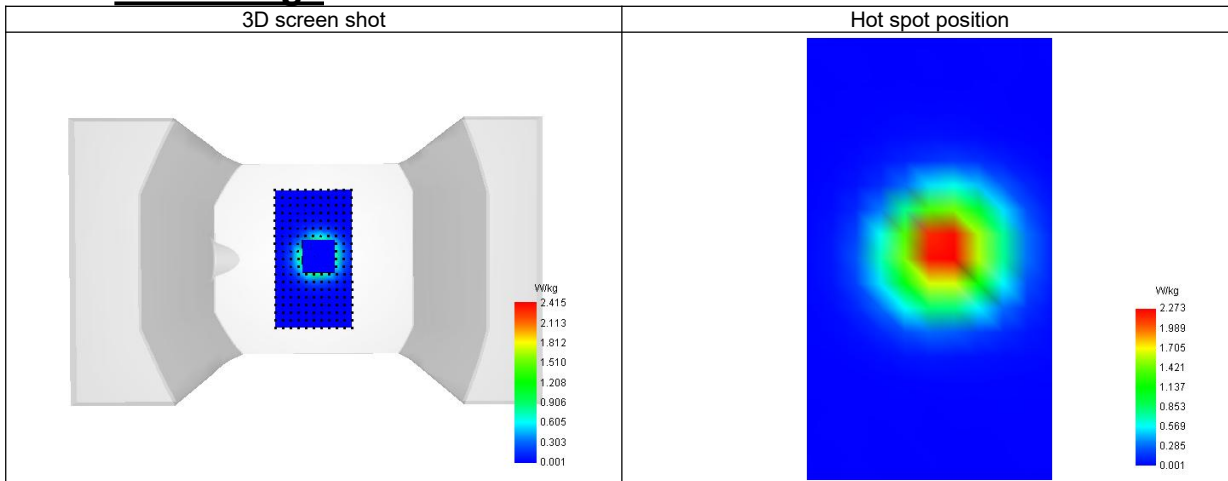
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F. 3D Image



15-Next-to-mouth: front position in dist. 10mm Channel 20525 in LTE Band 5

SAR Measurement at LTE band 5 (Body, Validation Plane)

Date of measurement: 13/8/2025

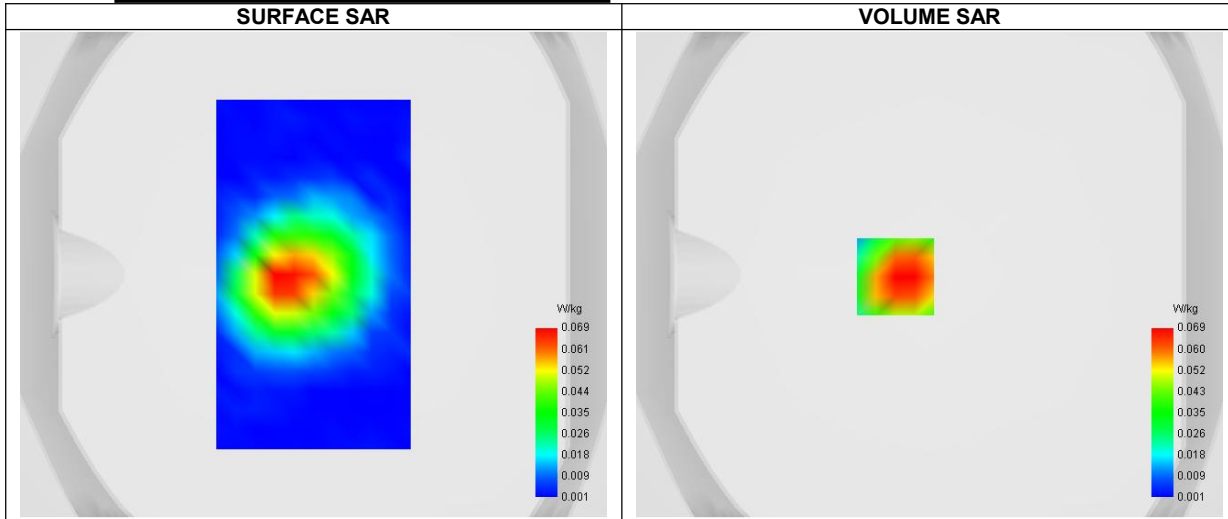
A. Experimental conditions.

Probe	0125-EPGO-445
ConvF	1.15
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5.0mm, Complete
Phantom	Validation plane
Device Position	Body
Band	LTE band 5
Channels/Frequency	Middle (20525)/ frequency 836.500 Mhz
Signal	LTE FDD
Cell Bandwidth	10 Mhz
Modulation	SC-OFDM - QPSK
RB offset	49
RB size	1

B. Permittivity

Middle TX Frequency (MHz)	840.910
Relative permittivity (real part)	41.764
Relative permittivity (imaginary part)	20.303
Conductivity (S/m)	0.909

C. SAR Surface and Volume



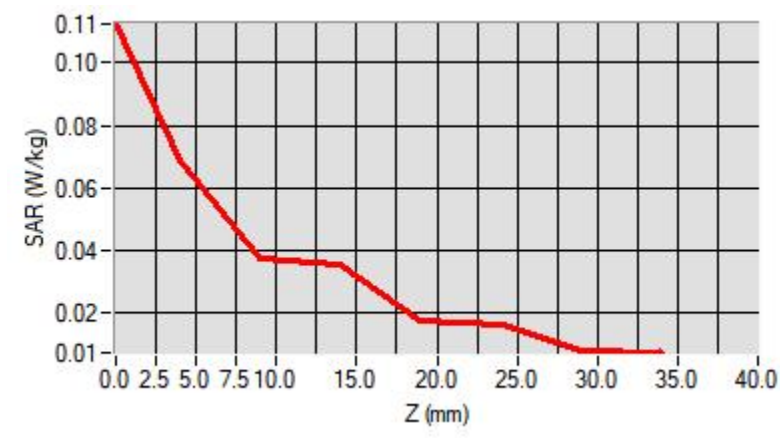
Maximum location: X=-14.00, Y=-1.00 ; SAR Peak: 0.10 W/kg

D. SAR 1g & 10g

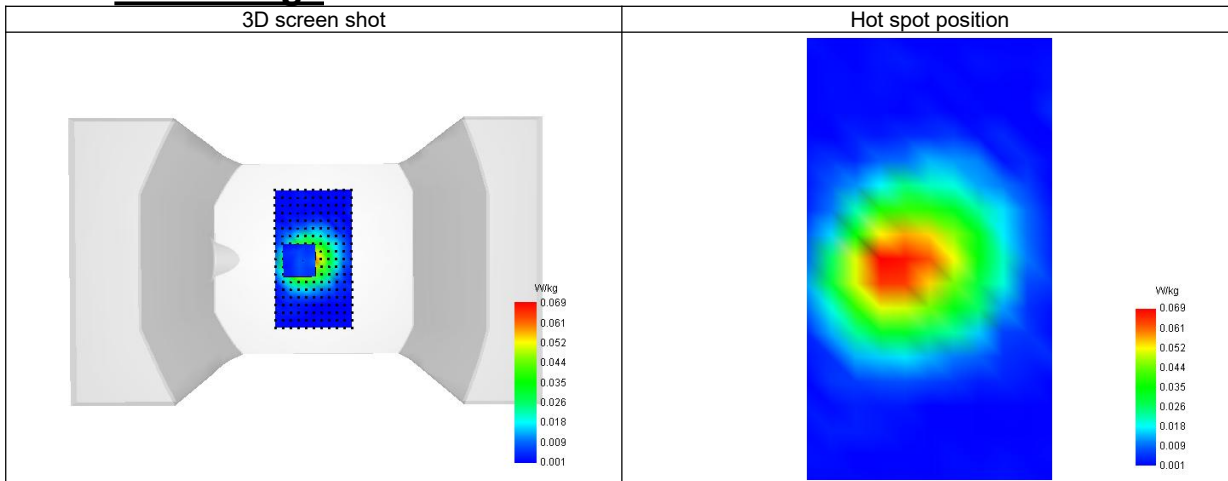
SAR 10g (W/Kg)	0.041
SAR 1g (W/Kg)	0.067
Variation (%)	2.430
Horizontal validation criteria: minimum distance (mm)	17.888544
Vertical validation criteria: SAR ratio M2/M1 (%)	68.366681

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.113	0.069	0.038	0.035	0.017	0.016	0.008



F. 3D Image



16-wrist-worn: back position in dist. 0mm Channel 20525 in LTE Band 5

SAR Measurement at LTE band 5 (Body, Validation Plane)

Date of measurement: 13/8/2025

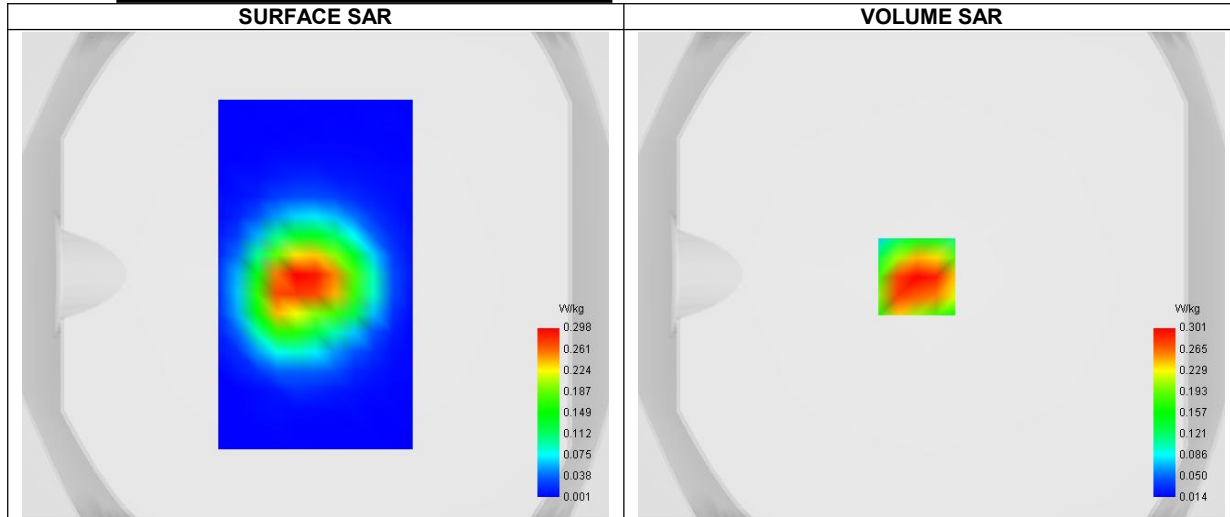
A. Experimental conditions.

Probe	0125-EPGO-445
ConvF	1.15
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5.0mm, Complete
Phantom	Validation plane
Device Position	Body
Band	LTE band 5
Channels/Frequency	Middle (20525)/ frequency 836.500 Mhz
Signal	LTE FDD
Cell Bandwidth	10 Mhz
Modulation	SC-OFDM - QPSK
RB offset	49
RB size	1

B. Permittivity

Middle TX Frequency (MHz)	840.910
Relative permittivity (real part)	41.764
Relative permittivity (imaginary part)	20.303
Conductivity (S/m)	0.909

C. SAR Surface and Volume



Maximum location: X=-6.00, Y=-1.00 ; SAR Peak: 0.45 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.171
SAR 1g (W/Kg)	0.289
Variation (%)	-1.140
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	61.643782

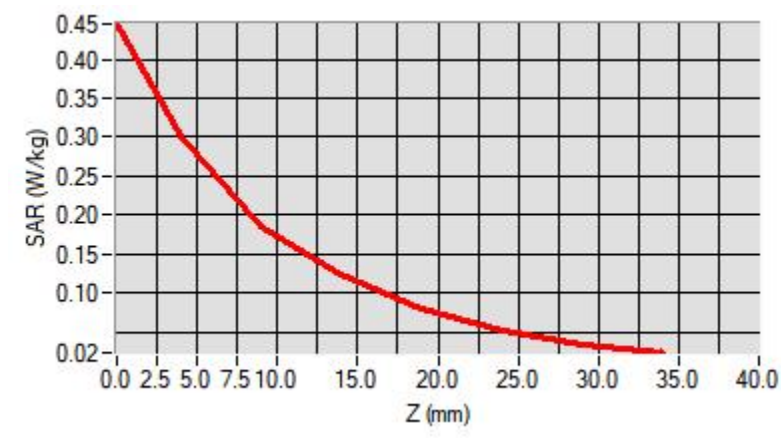
E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.445	0.301	0.185	0.122	0.081	0.051	0.035

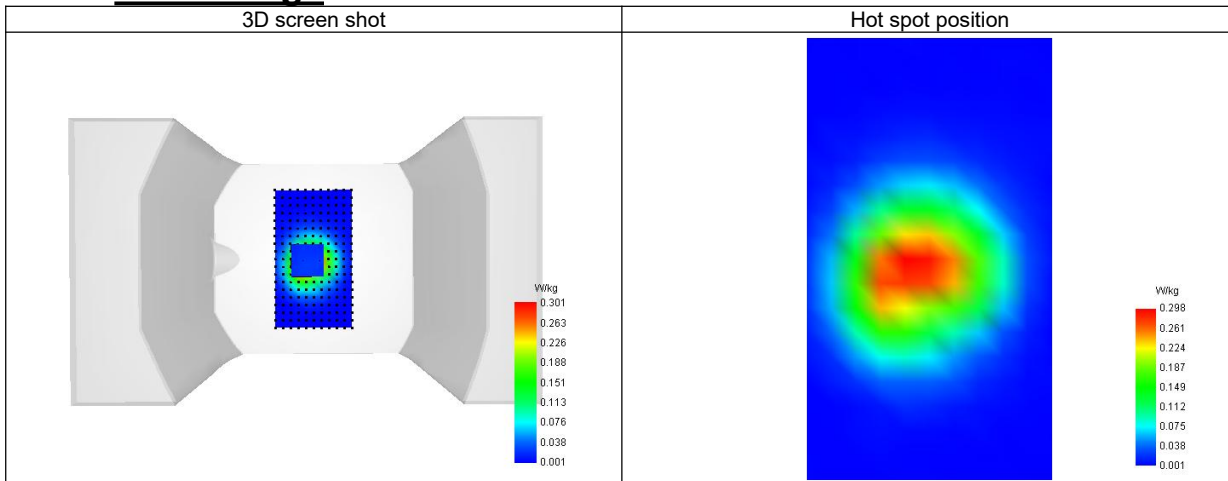
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F. 3D Image



17-Next-to-mouth: front position in dist. 10mm Channel 21350 in LTE Band 7

SAR Measurement at LTE band 7 (Body, Validation Plane)

Date of measurement: 17/8/2025

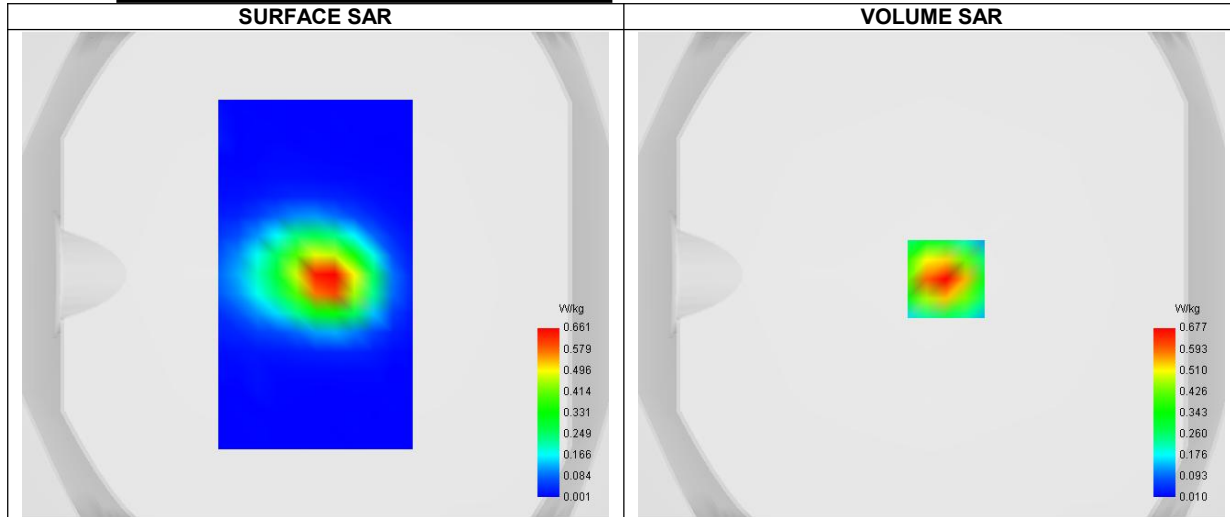
A. Experimental conditions.

Probe	0125-EPGO-445
ConvF	1.27
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5.0mm, Complete
Phantom	Validation plane
Device Position	Body
Band	LTE band 7
Channels/Frequency	Higher (21350)/ frequency 2560.000 Mhz
Signal	LTE FDD
Cell Bandwidth	20 Mhz
Modulation	SC-OFDM - QPSK
RB offset	99
RB size	1

B. Permittivity

Middle TX Frequency (MHz)	2568.910
Relative permittivity (real part)	38.689
Relative permittivity (imaginary part)	12.870
Conductivity (S/m)	1.902

C. SAR Surface and Volume



Maximum location: X=6.00, Y=-2.00 ; SAR Peak: 0.97 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.350
SAR 1g (W/Kg)	0.633
Variation (%)	-2.010
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	63.127569

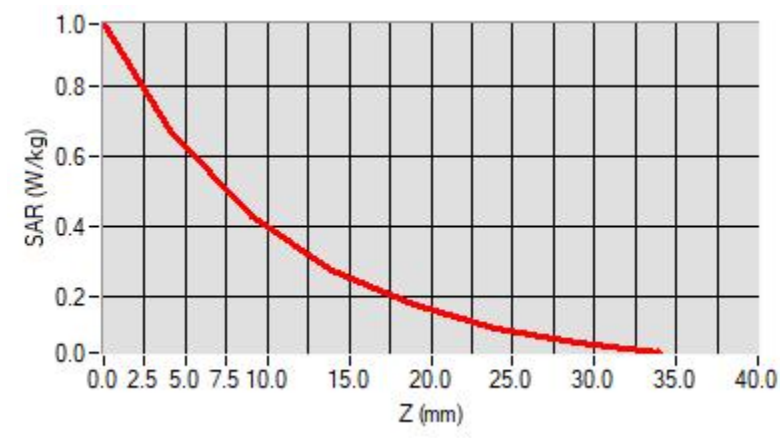
E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.976	0.677	0.427	0.275	0.180	0.114	0.073

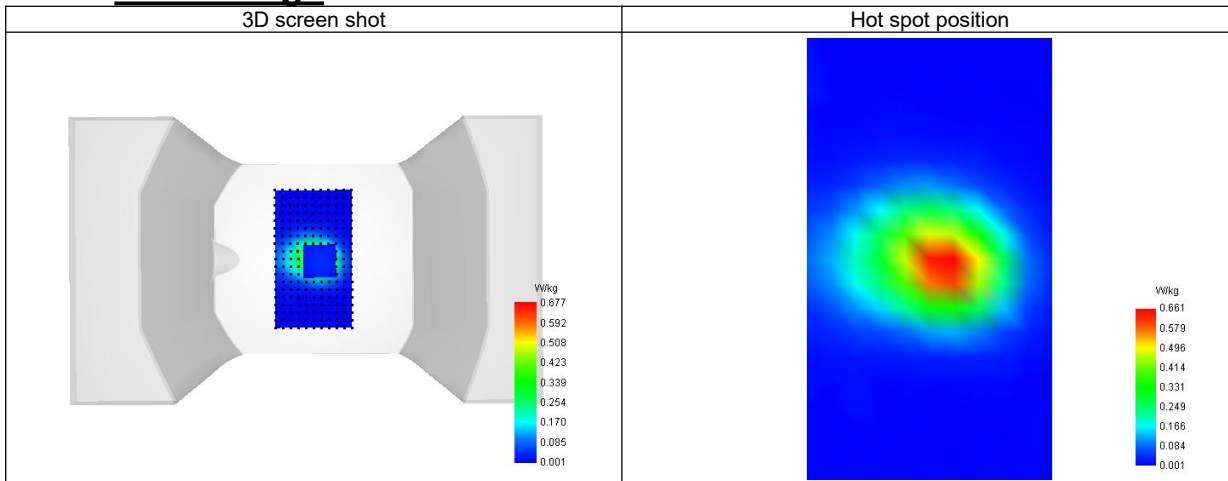
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F. 3D Image



18-wrist-worn: back position in dist. 0mm Channel 21350 in LTE Band 7

SAR Measurement at LTE band 7 (Body, Validation Plane)

Date of measurement: 17/8/2025

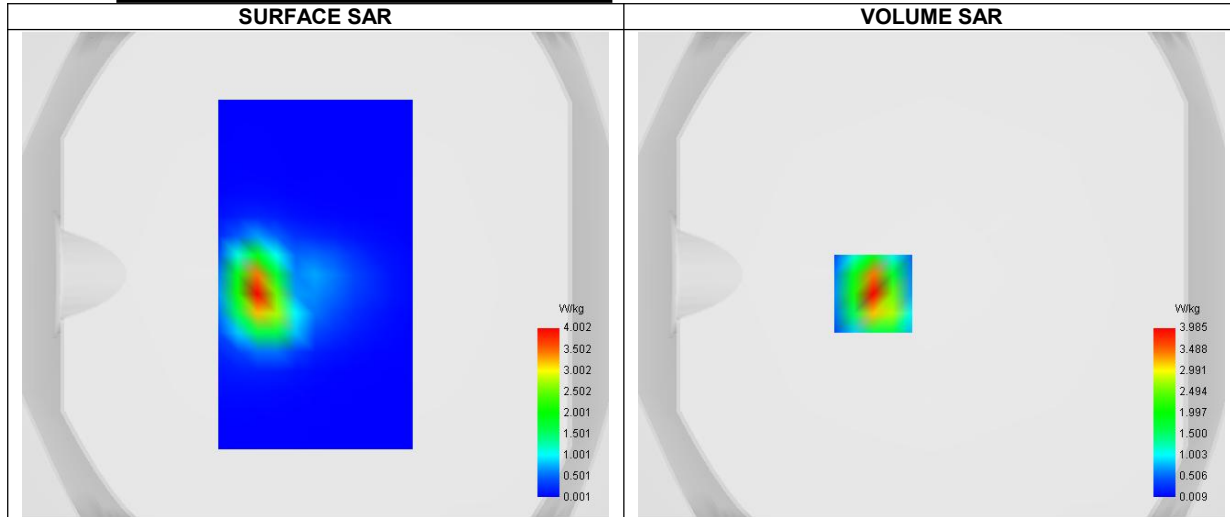
A. Experimental conditions.

Probe	0125-EPGO-445
ConvF	1.27
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5.0mm, Complete
Phantom	Validation plane
Device Position	Body
Band	LTE band 7
Channels/Frequency	Higher (21350)/ frequency 2560.000 Mhz
Signal	LTE FDD
Cell Bandwidth	20 Mhz
Modulation	SC-OFDM - QPSK
RB offset	99
RB size	1

B. Permittivity

Middle TX Frequency (MHz)	2568.910
Relative permittivity (real part)	38.689
Relative permittivity (imaginary part)	12.870
Conductivity (S/m)	1.902

C. SAR Surface and Volume



Maximum location: X=-24.00, Y=-8.00 ; SAR Peak: 6.54 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	1.576
SAR 1g (W/Kg)	3.565
Variation (%)	-0.830
Horizontal validation criteria: minimum distance (mm)	11.313708
Vertical validation criteria: SAR ratio M2/M1 (%)	51.174780

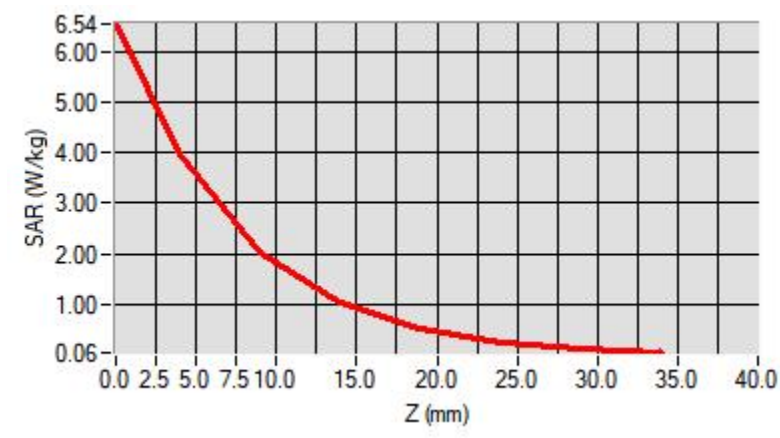
E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	6.535	3.985	2.039	1.034	0.523	0.264	0.132

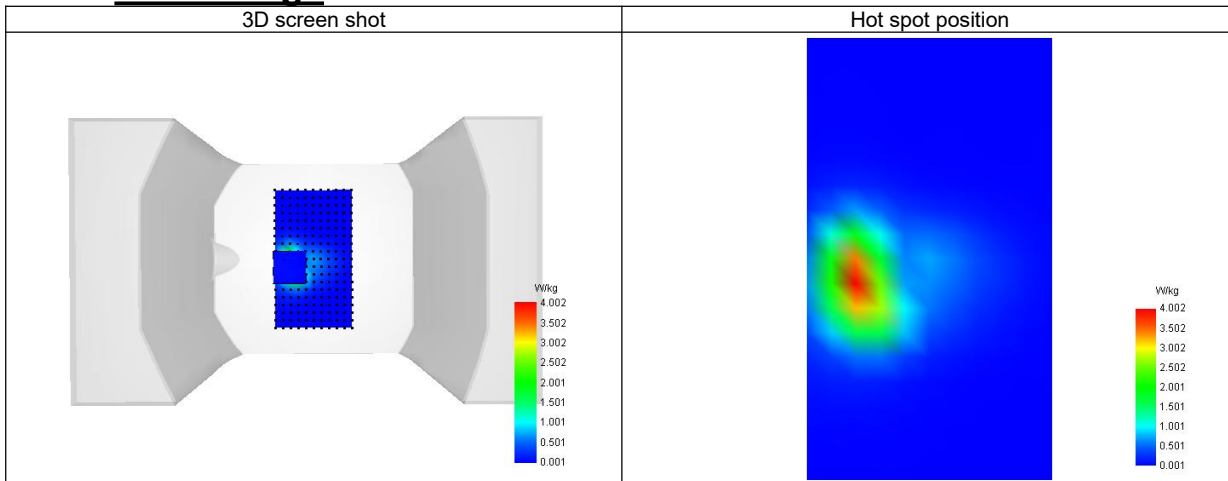
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F. 3D Image



19-Next-to-mouth: front position in dist. 10mm Channel 23130 in LTE Band 12

SAR Measurement at LTE band 12 (Body, Validation Plane)

Date of measurement: 12/8/2025

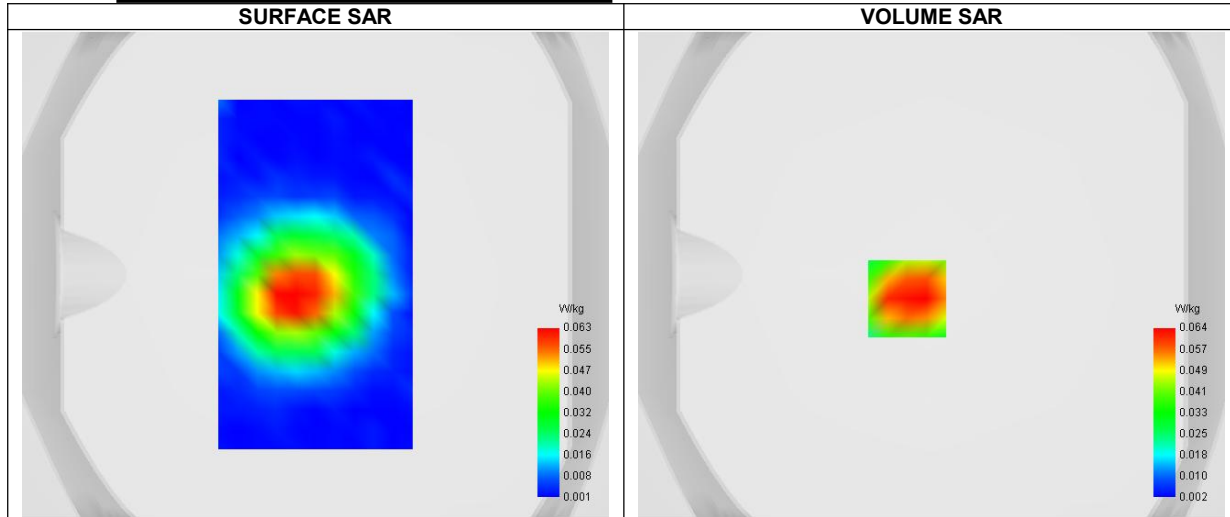
A. Experimental conditions.

Probe	0125-EPGO-445
ConvF	1.24
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5.0mm, Complete
Phantom	Validation plane
Device Position	Body
Band	LTE band 12
Channels/Frequency	Higher (23130)/ frequency 711.000 Mhz
Signal	LTE FDD
Cell Bandwidth	10 Mhz
Modulation	SC-OFDM - QPSK
RB offset	25
RB size	1

B. Permittivity

Middle TX Frequency (MHz)	711.090
Relative permittivity (real part)	41.846
Relative permittivity (imaginary part)	21.531
Conductivity (S/m)	0.894

C. SAR Surface and Volume



Maximum location: X=-10.00, Y=-10.00 ; SAR Peak: 0.10 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.039
SAR 1g (W/Kg)	0.063
Variation (%)	-1.260
Horizontal validation criteria: minimum distance (mm)	17.888544
Vertical validation criteria: SAR ratio M2/M1 (%)	66.900377

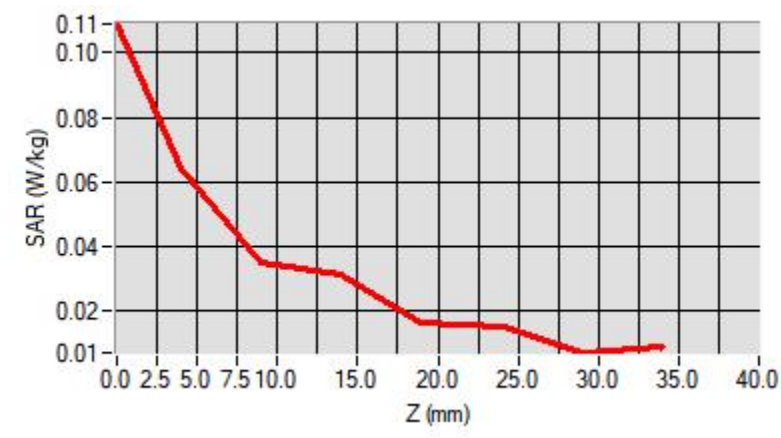
E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.109	0.064	0.035	0.031	0.016	0.015	0.007

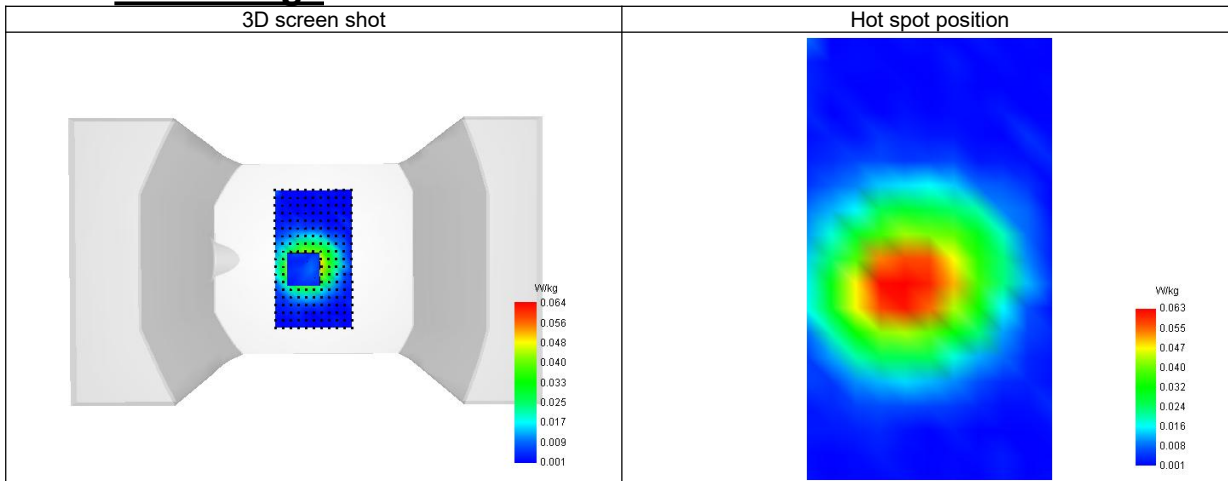
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F. 3D Image



20-wrist-worn: back position in dist. 0mm Channel 23130 in LTE Band 12

SAR Measurement at LTE band 12 (Body, Validation Plane)

Date of measurement: 12/8/2025

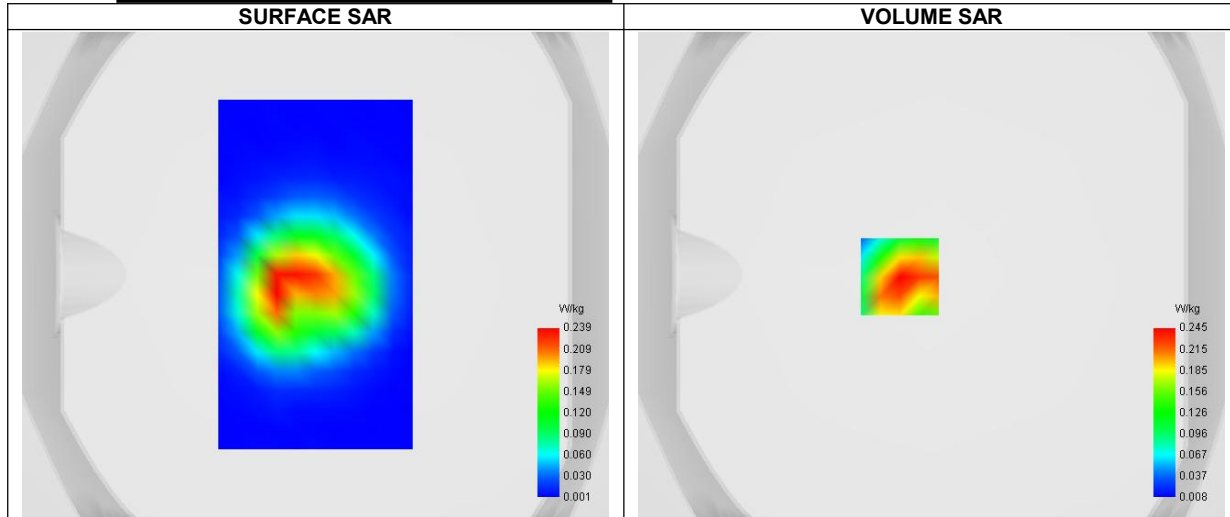
A. Experimental conditions.

Probe	0125-EPGO-445
ConvF	1.24
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5.0mm, Complete
Phantom	Validation plane
Device Position	Body
Band	LTE band 12
Channels/Frequency	Higher (23130)/ frequency 711.000 Mhz
Signal	LTE FDD
Cell Bandwidth	10 Mhz
Modulation	SC-OFDM - QPSK
RB offset	25
RB size	1

B. Permittivity

Middle TX Frequency (MHz)	711.090
Relative permittivity (real part)	41.846
Relative permittivity (imaginary part)	21.531
Conductivity (S/m)	0.894

C. SAR Surface and Volume

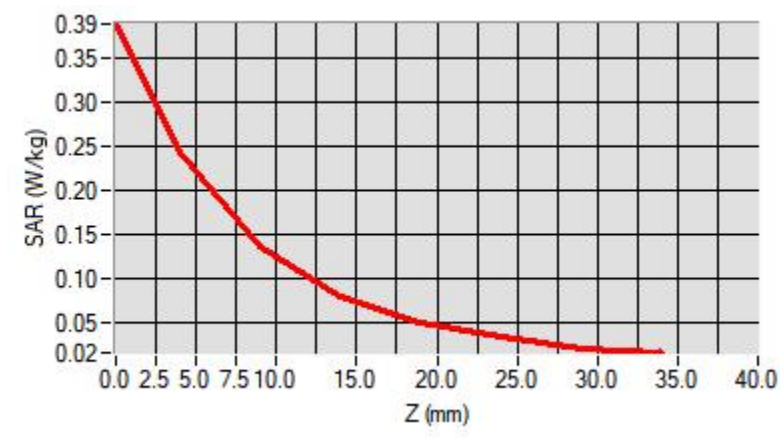


D. SAR 1g & 10g

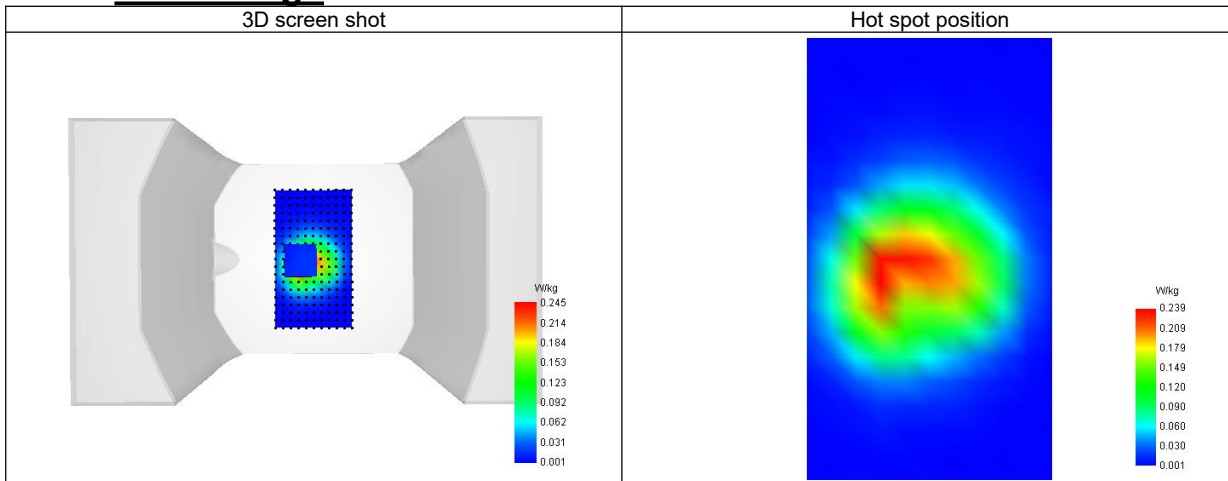
SAR 10g (W/Kg)	0.121
SAR 1g (W/Kg)	0.232
Variation (%)	-2.650
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	55.813987

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.389	0.245	0.136	0.082	0.051	0.034	0.022



F. 3D Image



21-Next-to-mouth: front position in dist. 10mm Channel 23230 in LTE Band 13

SAR Measurement at LTE band 13 (Body, Validation Plane)

Date of measurement: 12/8/2025

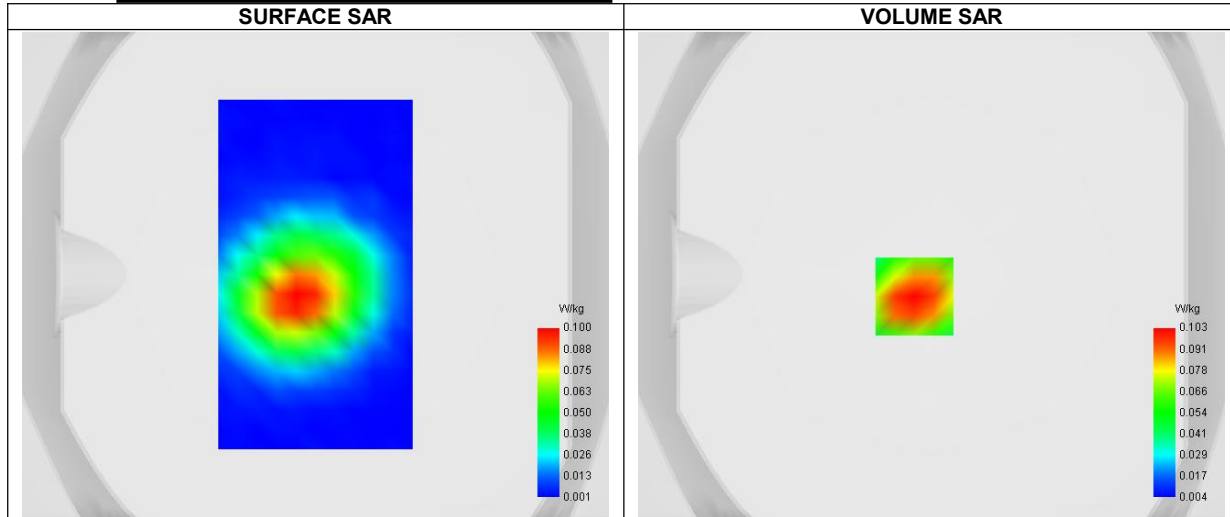
A. Experimental conditions.

Probe	0125-EPGO-445
ConvF	1.24
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5.0mm, Complete
Phantom	Validation plane
Device Position	Body
Band	LTE band 13
Channels/Frequency	Middle (23230)/ frequency 782.000 Mhz
Signal	LTE FDD
Cell Bandwidth	10 Mhz
Modulation	SC-OFDM - QPSK
RB offset	49
RB size	1

B. Permittivity

Middle TX Frequency (MHz)	786.410
Relative permittivity (real part)	41.802
Relative permittivity (imaginary part)	20.798
Conductivity (S/m)	0.901

C. SAR Surface and Volume

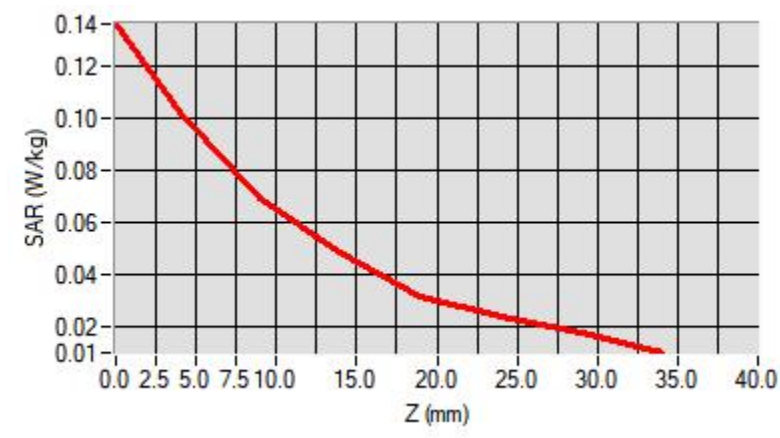


D. SAR 1g & 10g

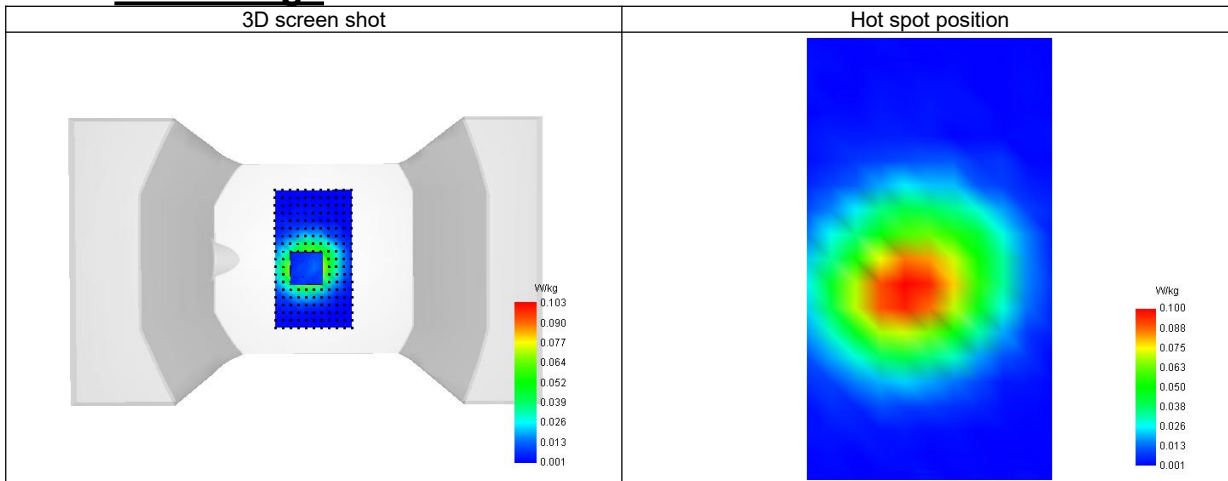
SAR 10g (W/Kg)	0.061
SAR 1g (W/Kg)	0.098
Variation (%)	0.960
Horizontal validation criteria: minimum distance (mm)	22.627417
Vertical validation criteria: SAR ratio M2/M1 (%)	67.189127

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.137	0.103	0.069	0.048	0.031	0.023	0.017



F. 3D Image



22-wrist-worn: back position in dist. 0mm Channel 23230 in LTE Band 13

SAR Measurement at LTE band 13 (Body, Validation Plane)

Date of measurement: 12/8/2025

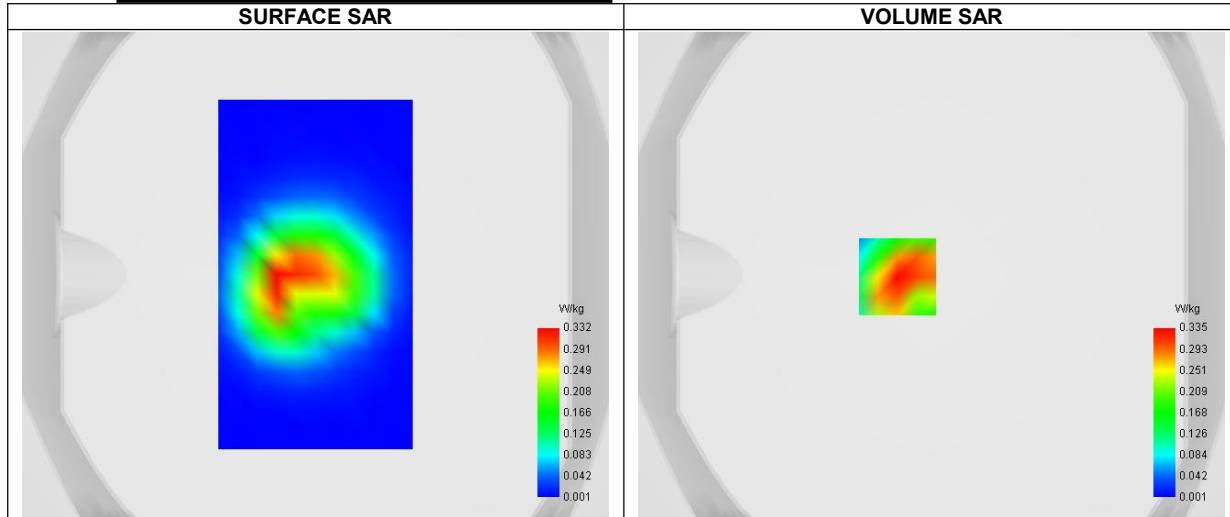
A. Experimental conditions.

Probe	0125-EPGO-445
ConvF	1.24
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5.0mm, Complete
Phantom	Validation plane
Device Position	Body
Band	LTE band 13
Channels/Frequency	Middle (23230)/ frequency 782.000 Mhz
Signal	LTE FDD
Cell Bandwidth	10 Mhz
Modulation	SC-OFDM - QPSK
RB offset	49
RB size	1

B. Permittivity

Middle TX Frequency (MHz)	786.410
Relative permittivity (real part)	41.802
Relative permittivity (imaginary part)	20.798
Conductivity (S/m)	0.901

C. SAR Surface and Volume

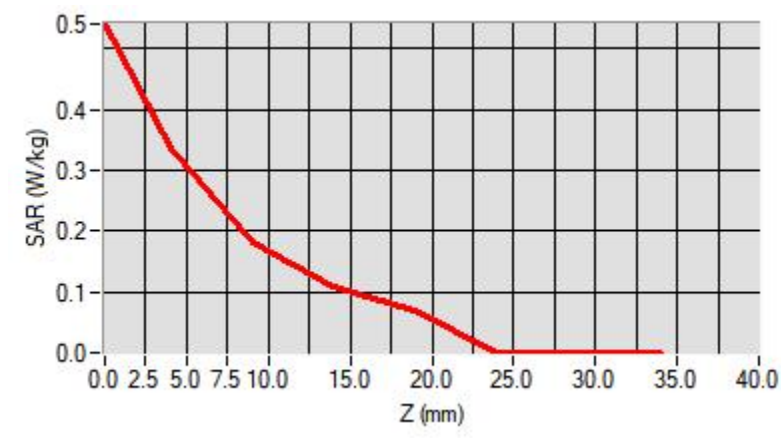


D. SAR 1g & 10g

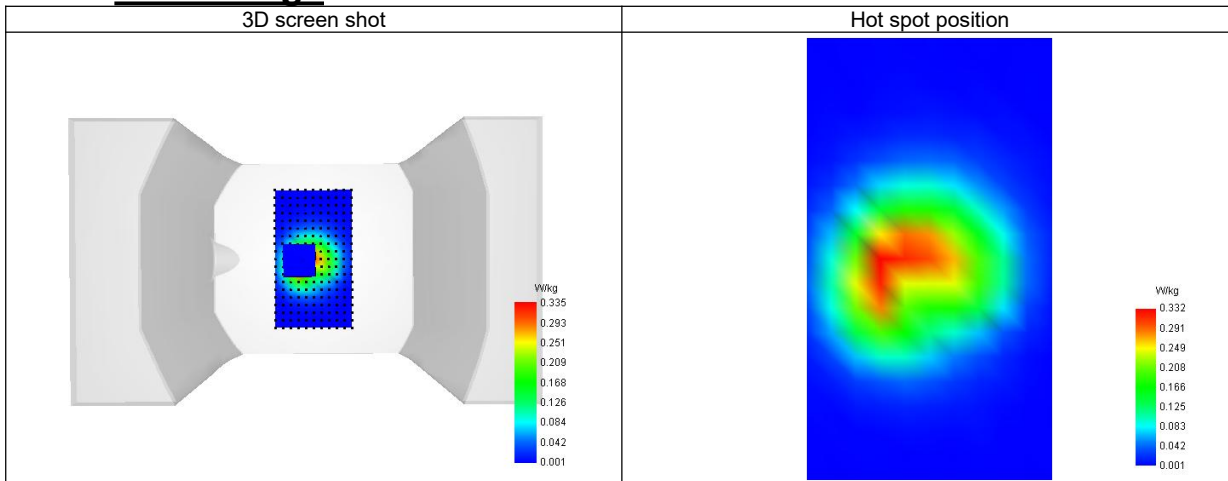
SAR 10g (W/Kg)	0.165
SAR 1g (W/Kg)	0.321
Variation (%)	-1.460
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	54.692615

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.540	0.335	0.183	0.109	0.068	0.001	0.001



F. 3D Image



23-Next-to-mouth: front position in dist. 10mm Channel 23780 in LTE Band 17

SAR Measurement at LTE band 17 (Body, Validation Plane)

Date of measurement: 12/8/2025

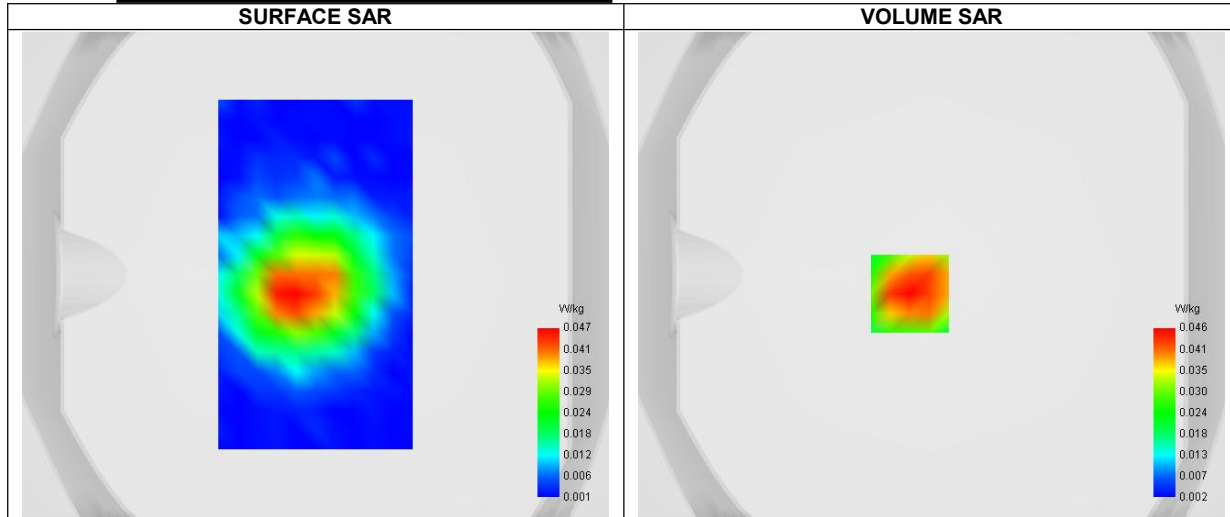
A. Experimental conditions.

Probe	0125-EPGO-445
ConvF	1.24
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5.0mm, Complete
Phantom	Validation plane
Device Position	Body
Band	LTE band 17
Channels/Frequency	Lower (23780)/ frequency 709.000 Mhz
Signal	LTE FDD
Cell Bandwidth	10 Mhz
Modulation	SC-OFDM - QPSK
RB offset	49
RB size	1

B. Permittivity

Middle TX Frequency (MHz)	713.410
Relative permittivity (real part)	41.845
Relative permittivity (imaginary part)	21.508
Conductivity (S/m)	0.895

C. SAR Surface and Volume



Maximum location: X=-9.00, Y=-8.00 ; SAR Peak: 0.07 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.027
SAR 1g (W/Kg)	0.045
Variation (%)	-2.110
Horizontal validation criteria: minimum distance (mm)	22.627417
Vertical validation criteria: SAR ratio M2/M1 (%)	64.773901

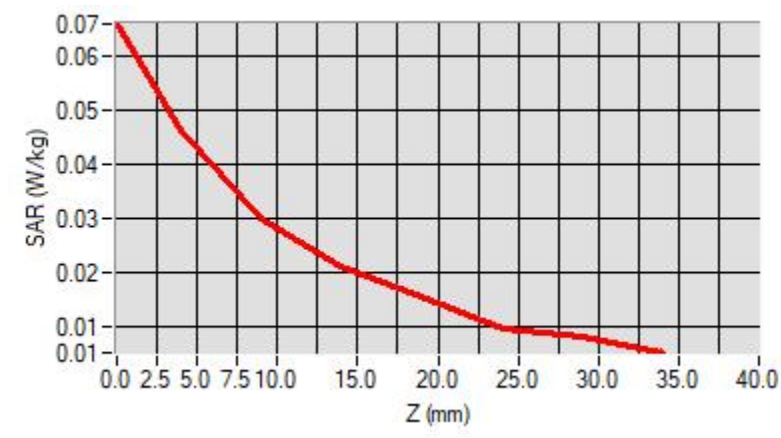
E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.066	0.046	0.030	0.021	0.016	0.010	0.008

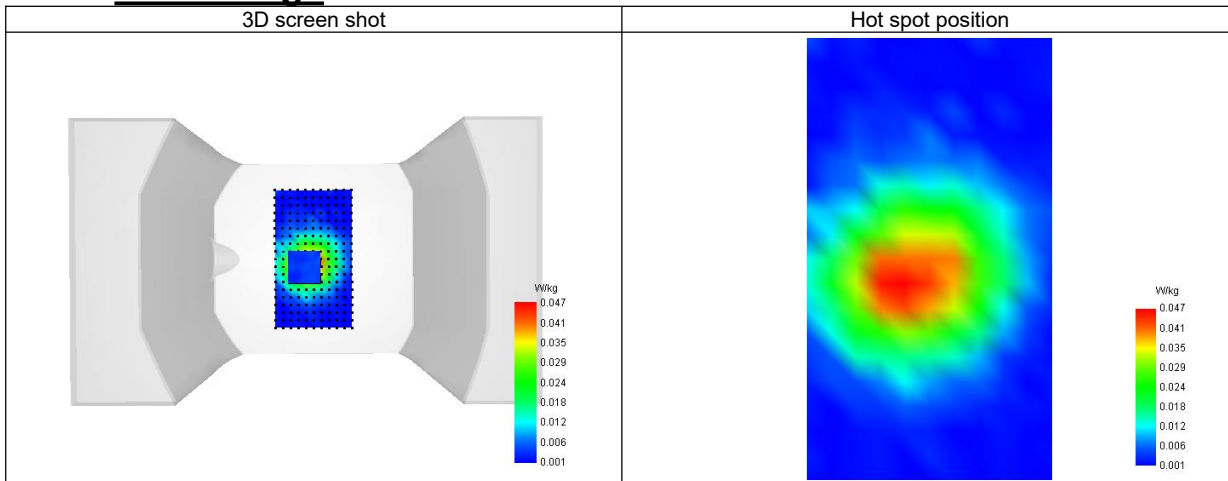
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F. 3D Image



24-wrist-worn: back position in dist. 0mm Channel 23780 in LTE Band 17

SAR Measurement at LTE band 17 (Body, Validation Plane)

Date of measurement: 12/8/2025

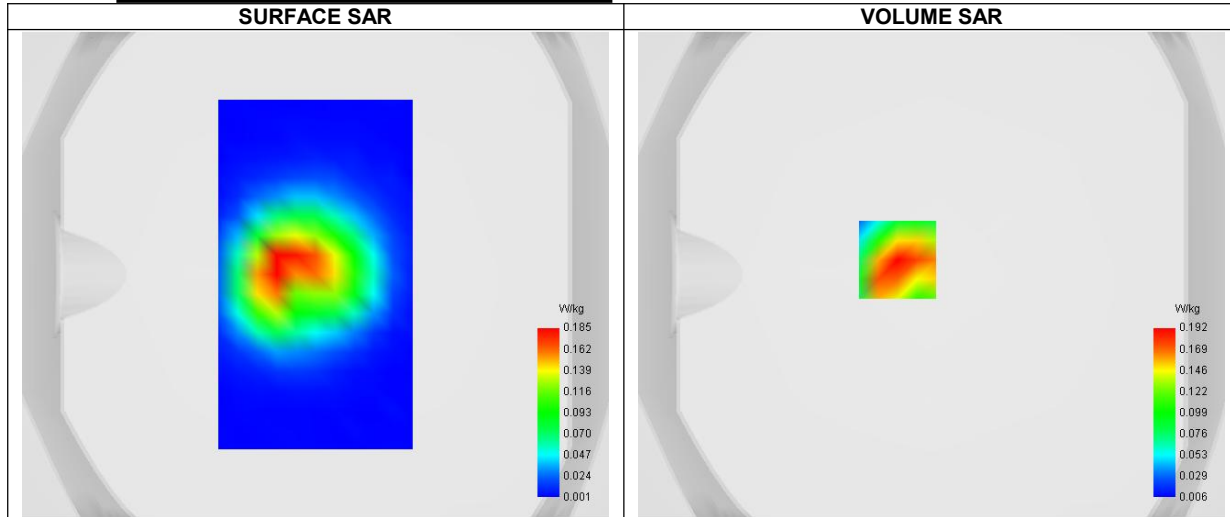
A. Experimental conditions.

Probe	0125-EPGO-445
ConvF	1.24
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5.0mm, Complete
Phantom	Validation plane
Device Position	Body
Band	LTE band 17
Channels/Frequency	Lower (23780)/ frequency 709.000 Mhz
Signal	LTE FDD
Cell Bandwidth	10 Mhz
Modulation	SC-OFDM - QPSK
RB offset	49
RB size	1

B. Permittivity

Middle TX Frequency (MHz)	713.410
Relative permittivity (real part)	41.845
Relative permittivity (imaginary part)	21.508
Conductivity (S/m)	0.895

C. SAR Surface and Volume



Maximum location: X=-14.00, Y=6.00 ; SAR Peak: 0.30 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.097
SAR 1g (W/Kg)	0.181
Variation (%)	-4.950
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	56.677849

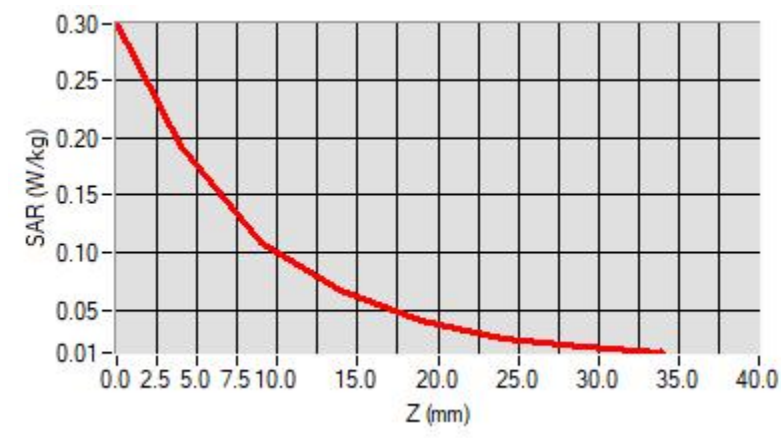
E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.298	0.192	0.109	0.067	0.041	0.027	0.020

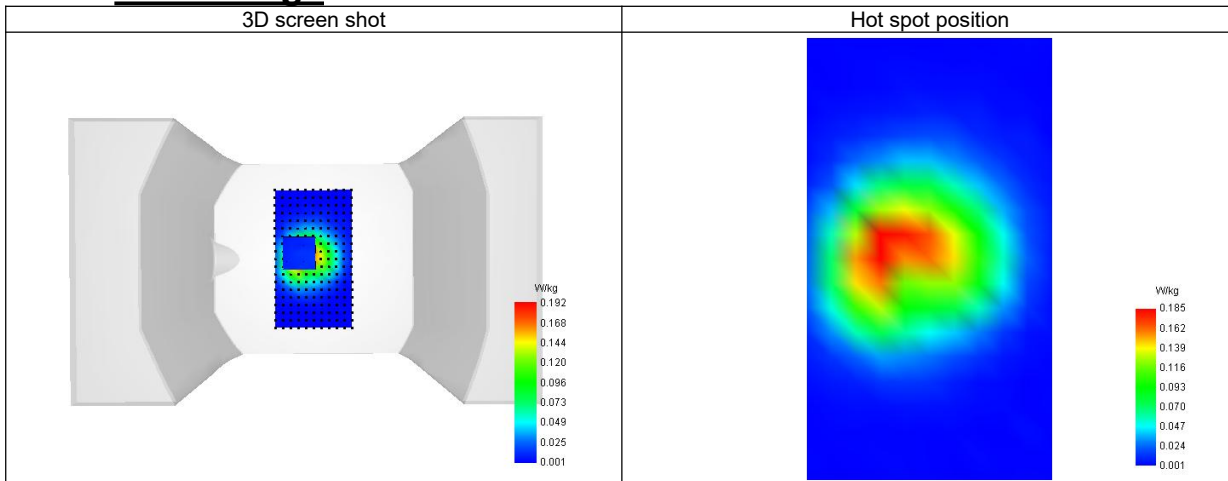
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F. 3D Image



25-Next-to-mouth: front position in dist. 10mm Channel 26740 in LTE 26 Part 90

SAR Measurement at LTE band 26 (Body, Validation Plane)

Date of measurement: 13/8/2025

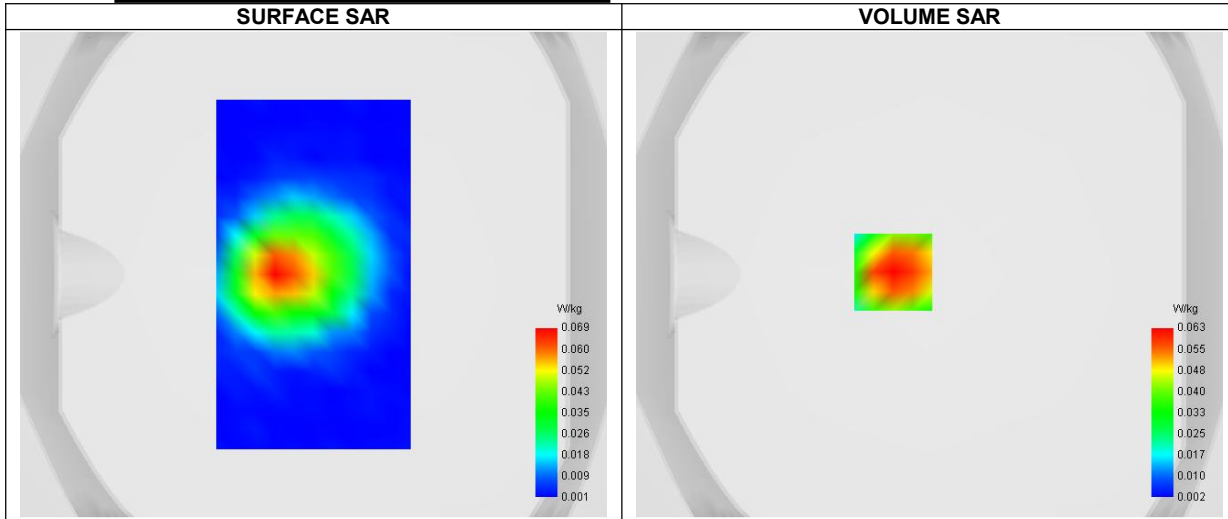
A. Experimental conditions.

Probe	0125-EPGO-445
ConvF	1.15
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5.0mm, Complete
Phantom	Validation plane
Device Position	Body
Band	LTE band 26
Channels/Frequency	Lower (26740)/ frequency 819.000 Mhz
Signal	LTE FDD
Cell Bandwidth	10 Mhz
Modulation	SC-OFDM - QPSK
RB offset	49
RB size	1

B. Permittivity

Middle TX Frequency (MHz)	823.410
Relative permittivity (real part)	41.780
Relative permittivity (imaginary part)	20.438
Conductivity (S/m)	0.905

C. SAR Surface and Volume



Maximum location: X=-15.00, Y=1.00 ; SAR Peak: 0.09 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.038
SAR 1g (W/Kg)	0.060
Variation (%)	-0.470
Horizontal validation criteria: minimum distance (mm)	17.888544
Vertical validation criteria: SAR ratio M2/M1 (%)	71.621605

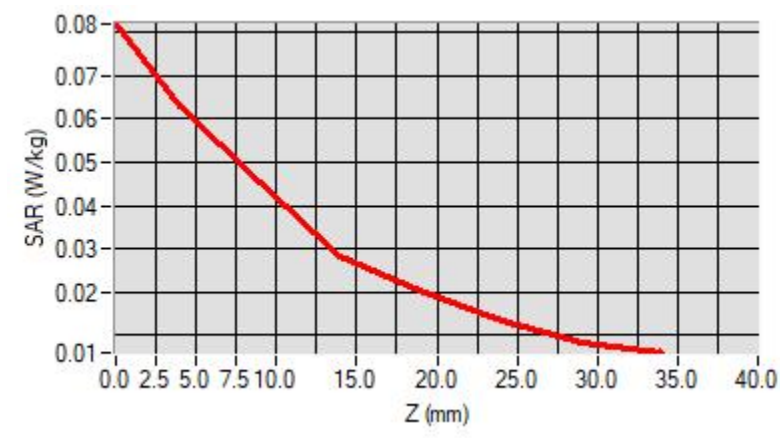
E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.082	0.063	0.045	0.028	0.020	0.013	0.008

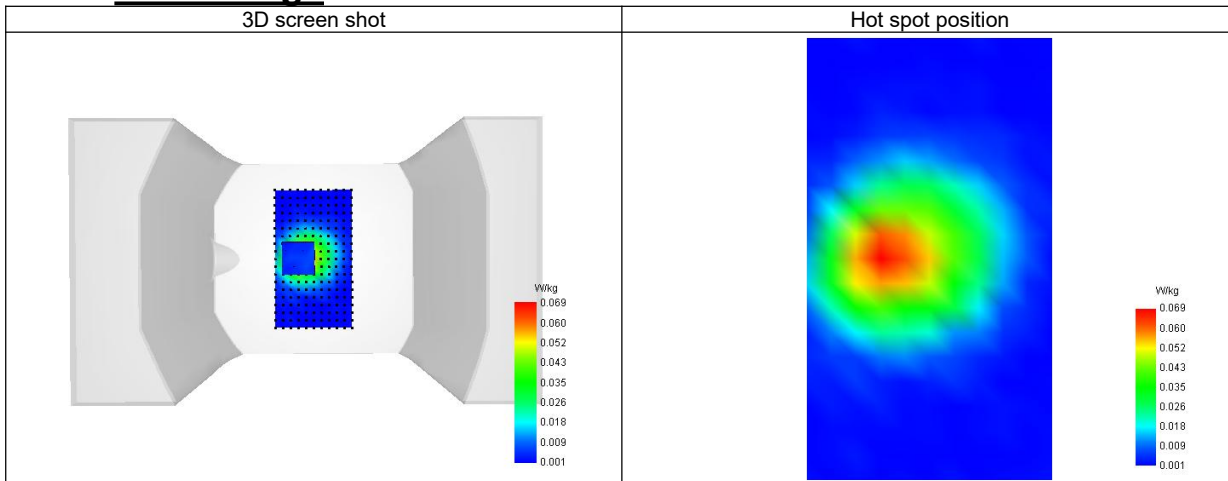
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F. 3D Image



26-wrist-worn: back position in dist. 0mm Channel 26740 in LTE Band 26 Part 90

SAR Measurement at LTE band 26 (Body, Validation Plane)

Date of measurement: 13/8/2025

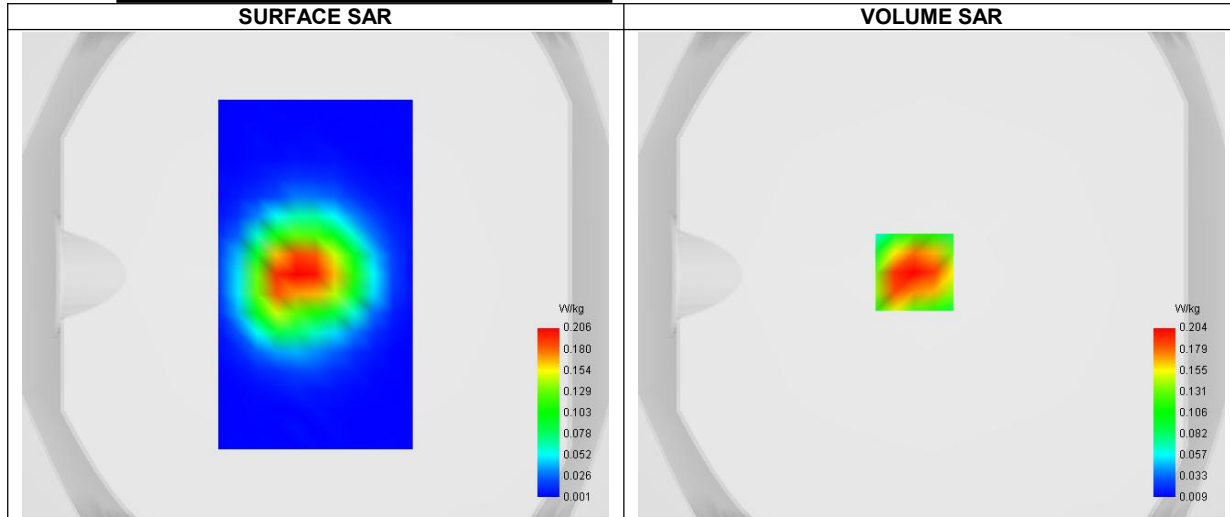
A. Experimental conditions.

Probe	0125-EPGO-445
ConvF	1.15
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5.0mm, Complete
Phantom	Validation plane
Device Position	Body
Band	LTE band 26
Channels/Frequency	Lower (26740)/ frequency 819.000 Mhz
Signal	LTE FDD
Cell Bandwidth	10 Mhz
Modulation	SC-OFDM - QPSK
RB offset	49
RB size	1

B. Permittivity

Middle TX Frequency (MHz)	823.410
Relative permittivity (real part)	41.780
Relative permittivity (imaginary part)	20.438
Conductivity (S/m)	0.905

C. SAR Surface and Volume



Maximum location: X=-7.00, Y=1.00 ; SAR Peak: 0.30 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.116
SAR 1g (W/Kg)	0.195
Variation (%)	-1.710
Horizontal validation criteria: minimum distance (mm)	17.888544
Vertical validation criteria: SAR ratio M2/M1 (%)	62.514481

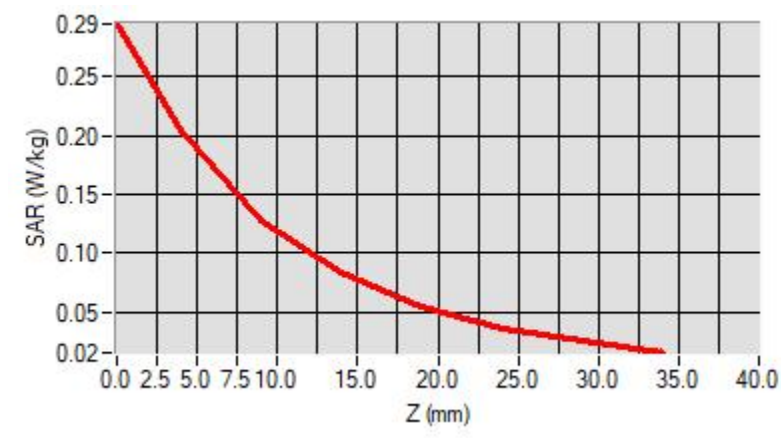
E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.295	0.204	0.127	0.083	0.054	0.036	0.025

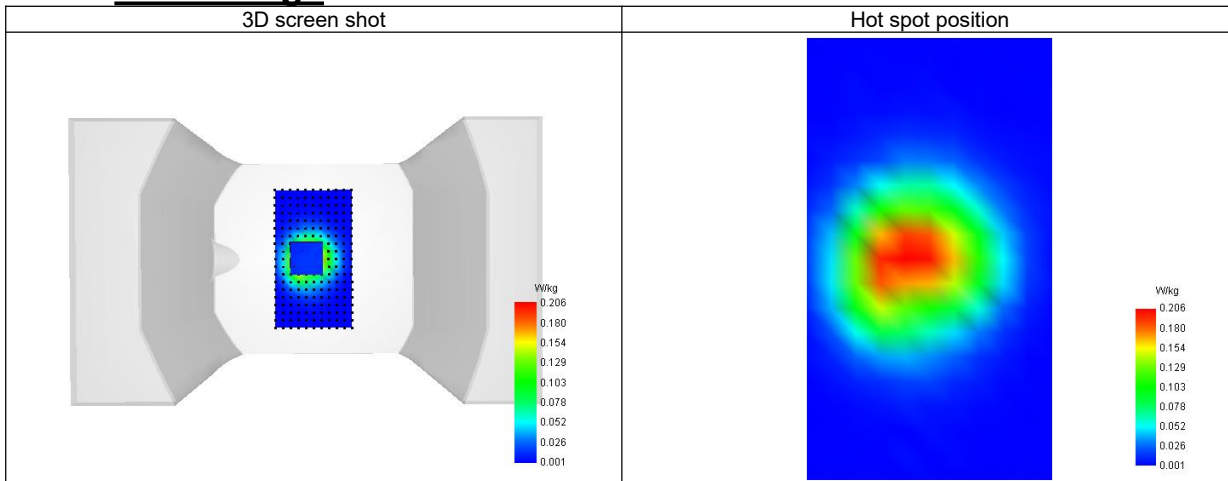
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F. 3D Image



27-Next-to-mouth: front position in dist. 10mm Channel 26915 in LTE 26 Part 22

SAR Measurement at LTE band 26 (Body, Validation Plane)

Date of measurement: 13/8/2025

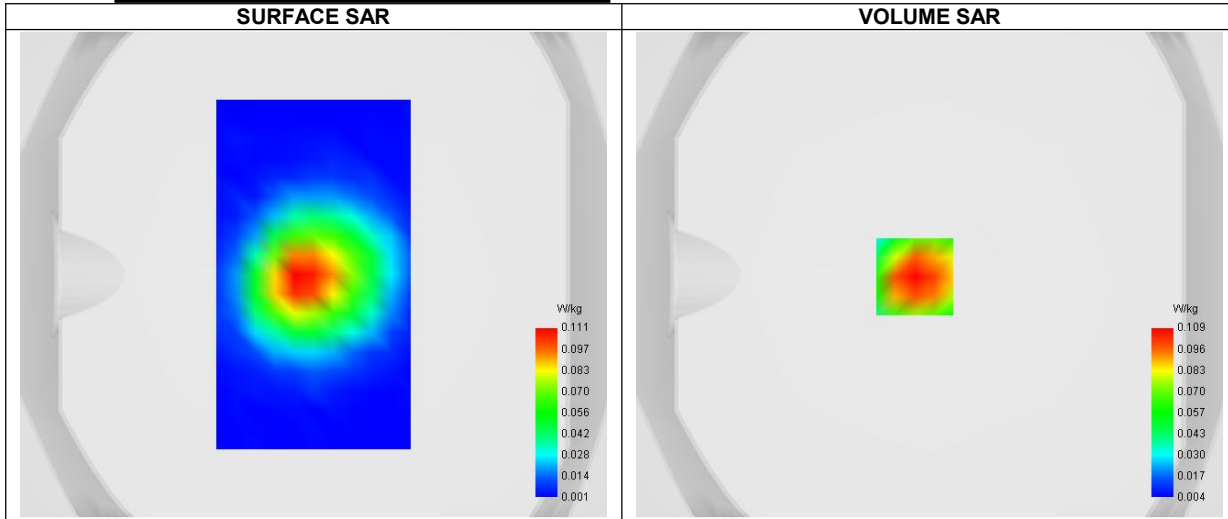
A. Experimental conditions.

Probe	0125-EPGO-445
ConvF	1.15
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5.0mm, Complete
Phantom	Validation plane
Device Position	Body
Band	LTE band 26
Channels/Frequency	Middle (26915)/ frequency 836.500 Mhz
Signal	LTE FDD
Cell Bandwidth	15 Mhz
Modulation	SC-OFDM - QPSK
RB offset	74
RB size	1

B. Permittivity

Middle TX Frequency (MHz)	836.160
Relative permittivity (real part)	41.771
Relative permittivity (imaginary part)	20.321
Conductivity (S/m)	0.907

C. SAR Surface and Volume



Maximum location: X=-6.00, Y=-1.00 ; SAR Peak: 0.15 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.065
SAR 1g (W/Kg)	0.105
Variation (%)	-1.530
Horizontal validation criteria: minimum distance (mm)	17.888544
Vertical validation criteria: SAR ratio M2/M1 (%)	70.619031

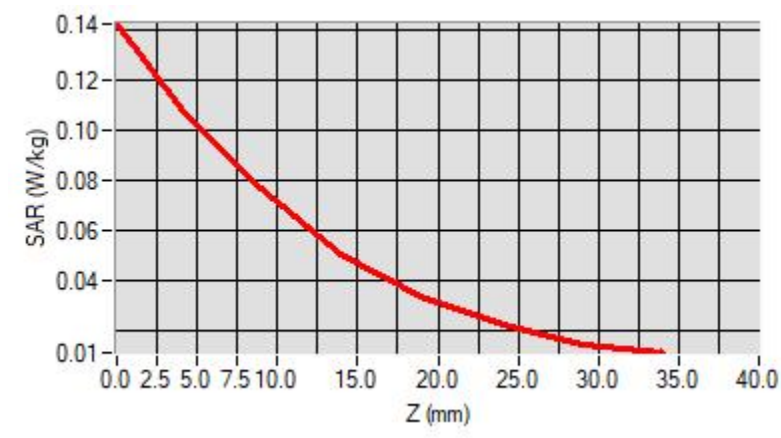
E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.143	0.109	0.077	0.051	0.034	0.023	0.014

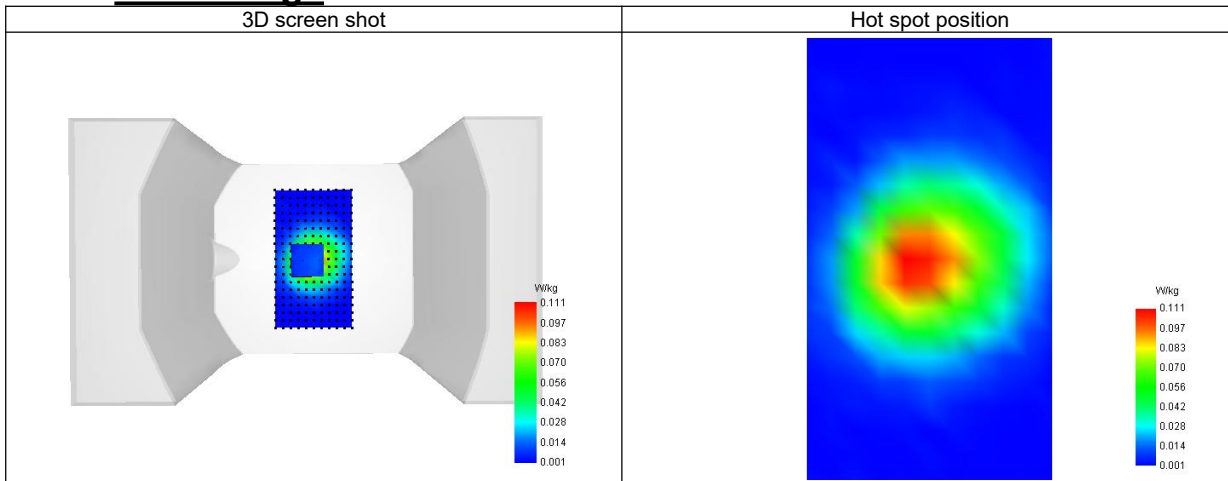
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F. 3D Image



28-wrist-worn: back position in dist. 0mm Channel 26915 in LTE Band 26 Part 22

SAR Measurement at LTE band 26 (Body, Validation Plane)

Date of measurement: 13/8/2025

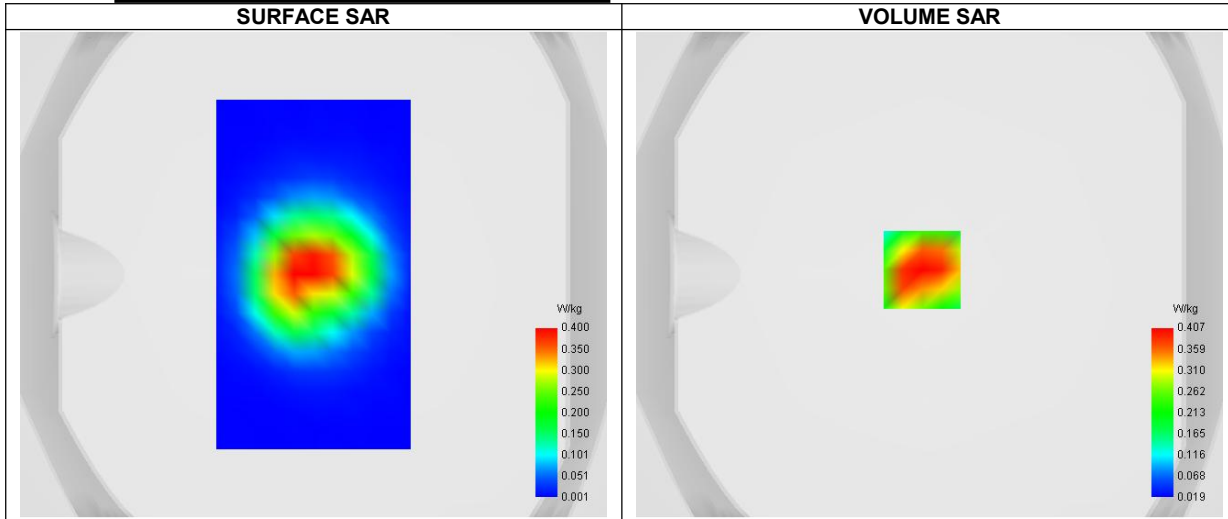
A. Experimental conditions.

Probe	0125-EPGO-445
ConvF	1.15
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5.0mm, Complete
Phantom	Validation plane
Device Position	Body
Band	LTE band 26
Channels/Frequency	Middle (26915)/ frequency 836.500 Mhz
Signal	LTE FDD
Cell Bandwidth	15 Mhz
Modulation	SC-OFDM - QPSK
RB offset	74
RB size	1

B. Permittivity

Middle TX Frequency (MHz)	836.160
Relative permittivity (real part)	41.771
Relative permittivity (imaginary part)	20.321
Conductivity (S/m)	0.907

C. SAR Surface and Volume



Maximum location: X=-3.00, Y=2.00 ; SAR Peak: 0.61 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.232
SAR 1g (W/Kg)	0.391
Variation (%)	0.220
Horizontal validation criteria: minimum distance (mm)	17.888544
Vertical validation criteria: SAR ratio M2/M1 (%)	62.814894

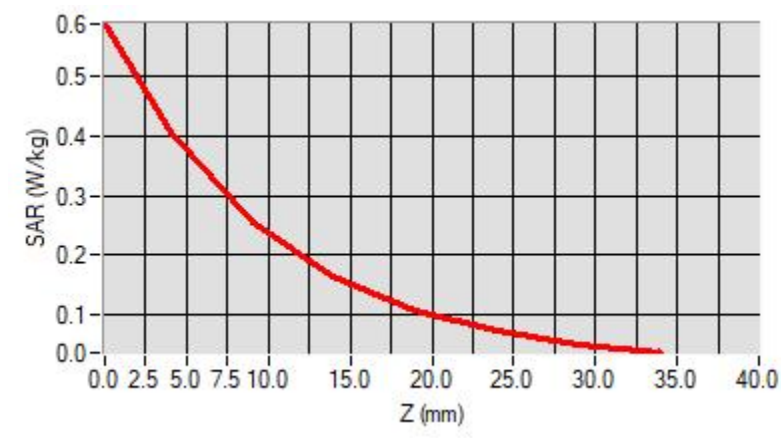
E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.589	0.407	0.256	0.163	0.107	0.073	0.050

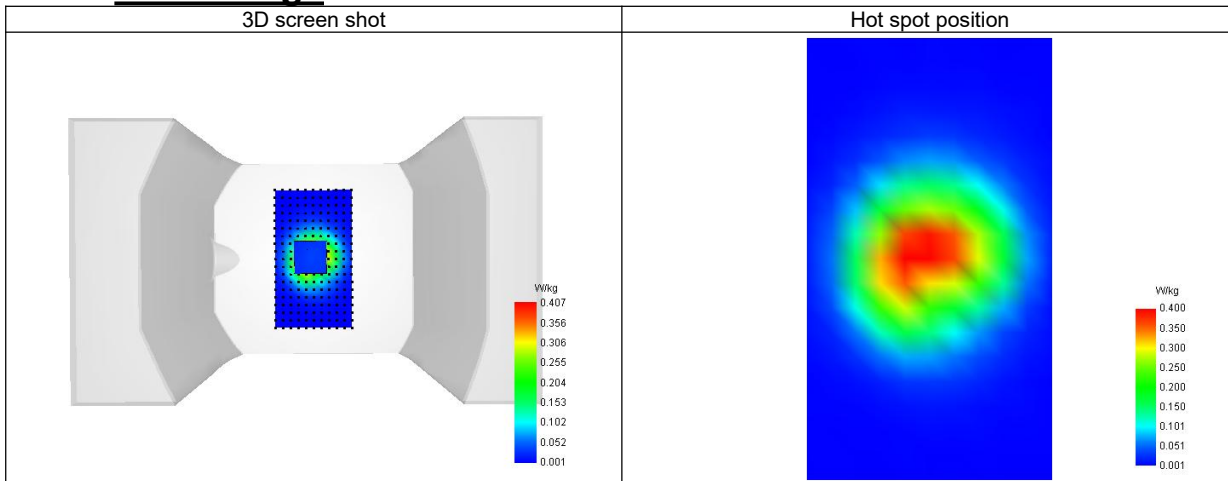
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F. 3D Image



29-Next-to-mouth: front position in dist. 10mm Channel 39750 in LTE Band 41

SAR Measurement at LTE band 41 (Body, Validation Plane)

Date of measurement: 17/8/2025

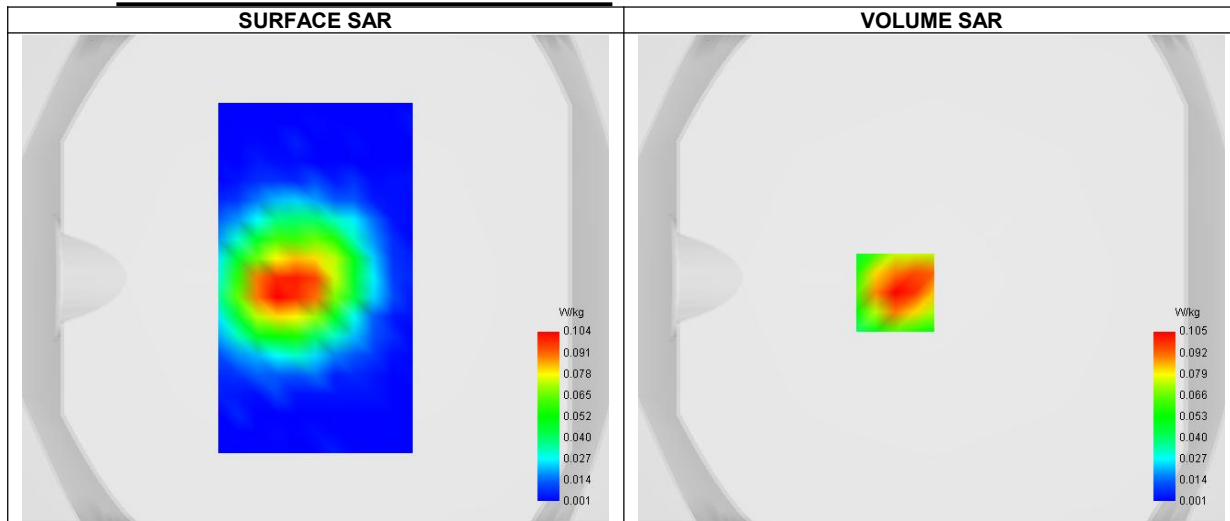
A. Experimental conditions.

Probe	0125-EPGO-445
ConvF	1.40
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5.0mm, Complete
Phantom	Validation plane
Device Position	Body
Band	LTE band 41
Channels/Frequency	Lower (39750)/ frequency 2506.000 Mhz
Signal	LTE TDD
Cell Bandwidth	20 Mhz
Modulation	SC-OFDM - QPSK
RB offset	50
RB size	1
Subframe configuration	0
Special subframe configuration	0
Cyclic prefix	Normal
Duty Cycle (%)	0.61

B. Permittivity

Middle TX Frequency (MHz)	2506.090
Relative permittivity (real part)	38.765
Relative permittivity (imaginary part)	13.286
Conductivity (S/m)	1.869

C. SAR Surface and Volume



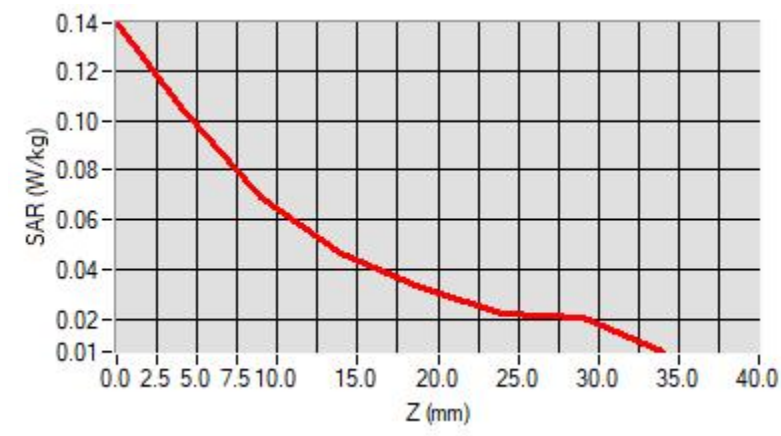
Maximum location: X=-15.00, Y=-6.00 ; SAR Peak: 0.14 W/kg

D. SAR 1g & 10g

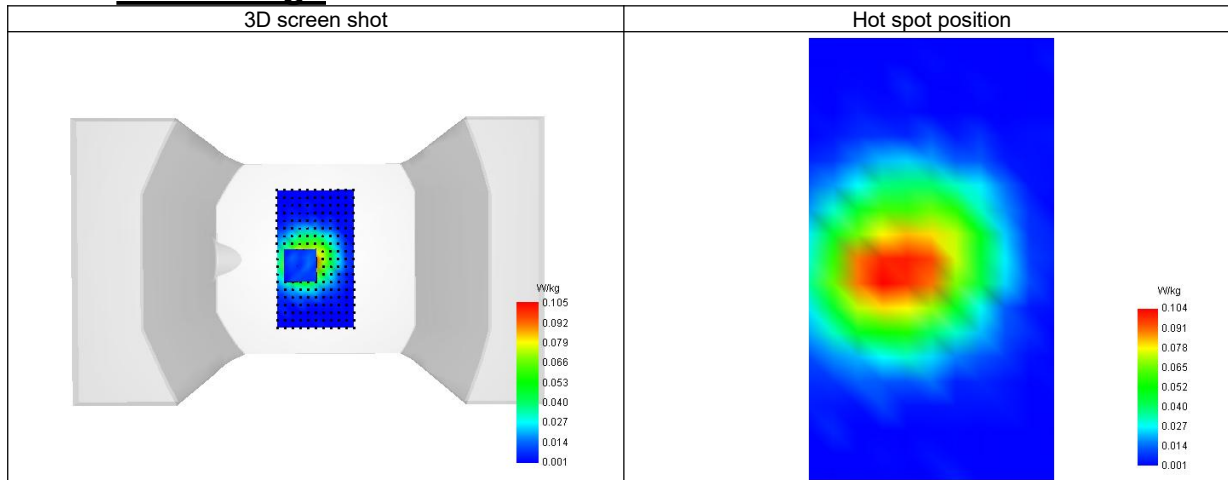
SAR 10g (W/Kg)	0.063
SAR 1g (W/Kg)	0.099
Variation (%)	-3.960
Horizontal validation criteria: minimum distance (mm)	17.888544
Vertical validation criteria: SAR ratio M2/M1 (%)	65.694674

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.139	0.105	0.069	0.047	0.032	0.022	0.020



F. 3D Image



30-wrist-worn: back position in dist. 0mm Channel 39750 in LTE Band 41

SAR Measurement at LTE band 41 (Body, Validation Plane)

Date of measurement: 17/8/2025

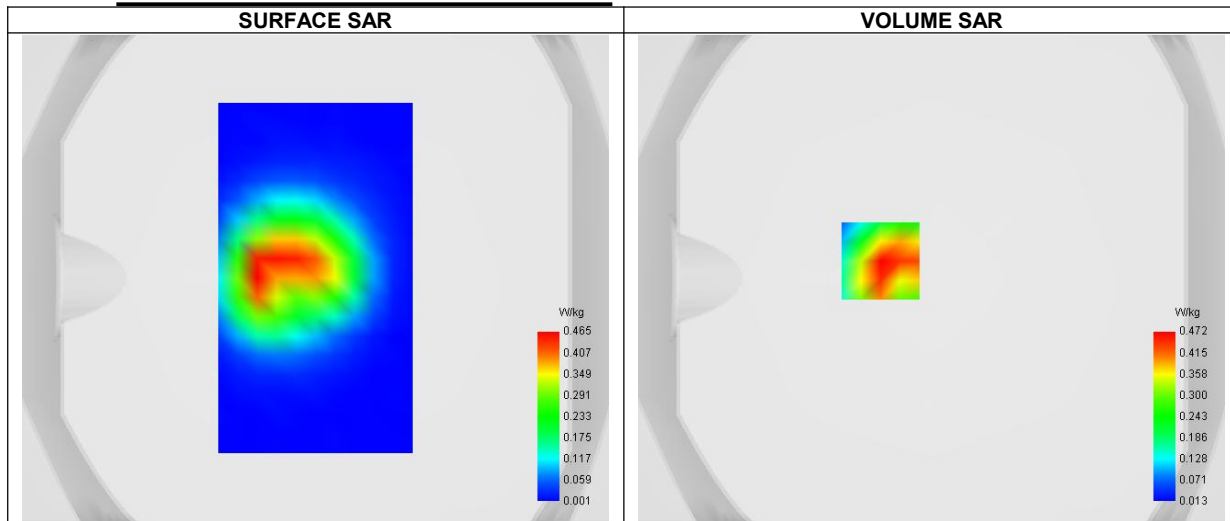
A. Experimental conditions.

Probe	0125-EPGO-445
ConvF	1.40
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5.0mm, Complete
Phantom	Validation plane
Device Position	Body
Band	LTE band 41
Channels/Frequency	Lower (39750)/ frequency 2506.000 Mhz
Signal	LTE TDD
Cell Bandwidth	20 Mhz
Modulation	SC-OFDM - QPSK
RB offset	50
RB size	1
Subframe configuration	0
Special subframe configuration	0
Cyclic prefix	Normal
Duty Cycle (%)	0.61

B. Permittivity

Middle TX Frequency (MHz)	2506.090
Relative permittivity (real part)	38.765
Relative permittivity (imaginary part)	13.286
Conductivity (S/m)	1.859

C. SAR Surface and Volume

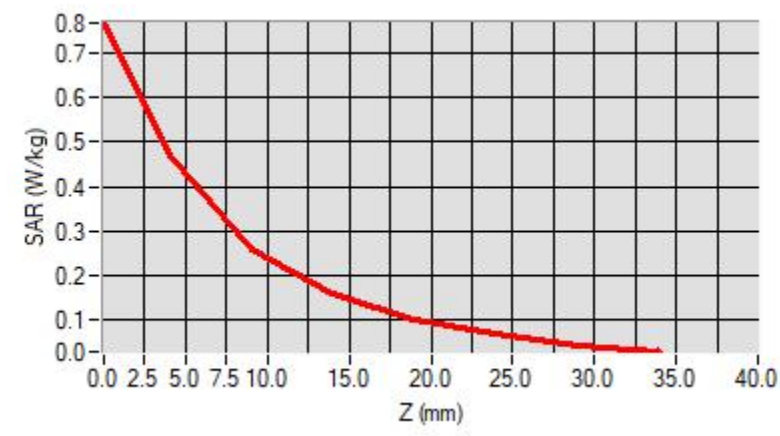


D. SAR 1g & 10g

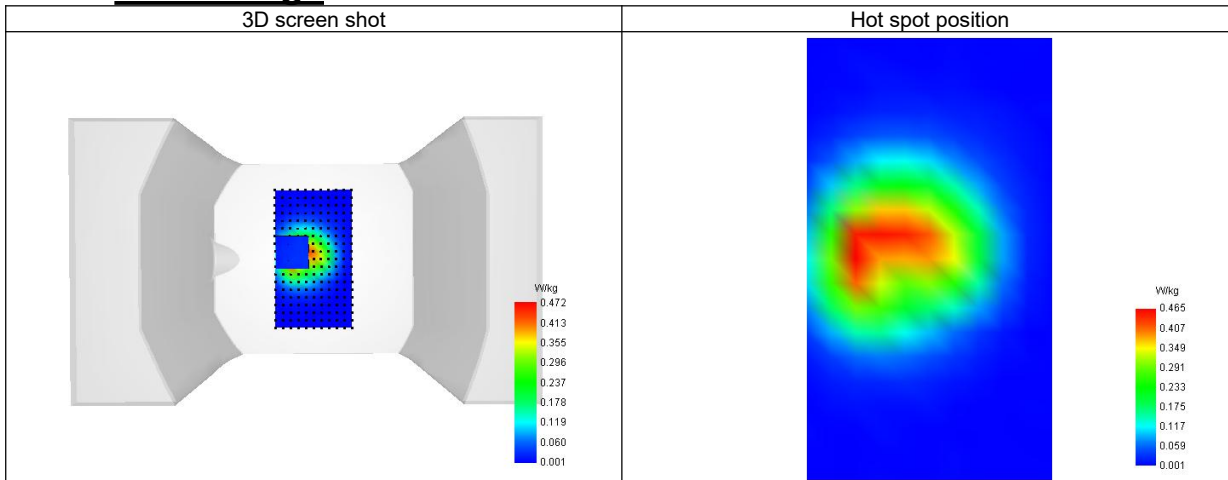
SAR 10g (W/Kg)	0.233
SAR 1g (W/Kg)	0.450
Variation (%)	4.380
Horizontal validation criteria: minimum distance (mm)	11.313708
Vertical validation criteria: SAR ratio M2/M1 (%)	54.639992

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.769	0.472	0.258	0.158	0.101	0.067	0.042



F. 3D Image



31-Next-to-mouth: front position in dist. 10mm Channel 132572 in LTE Band 66

SAR Measurement at LTE band 66 (Body, Validation Plane)

Date of measurement: 14/8/2025

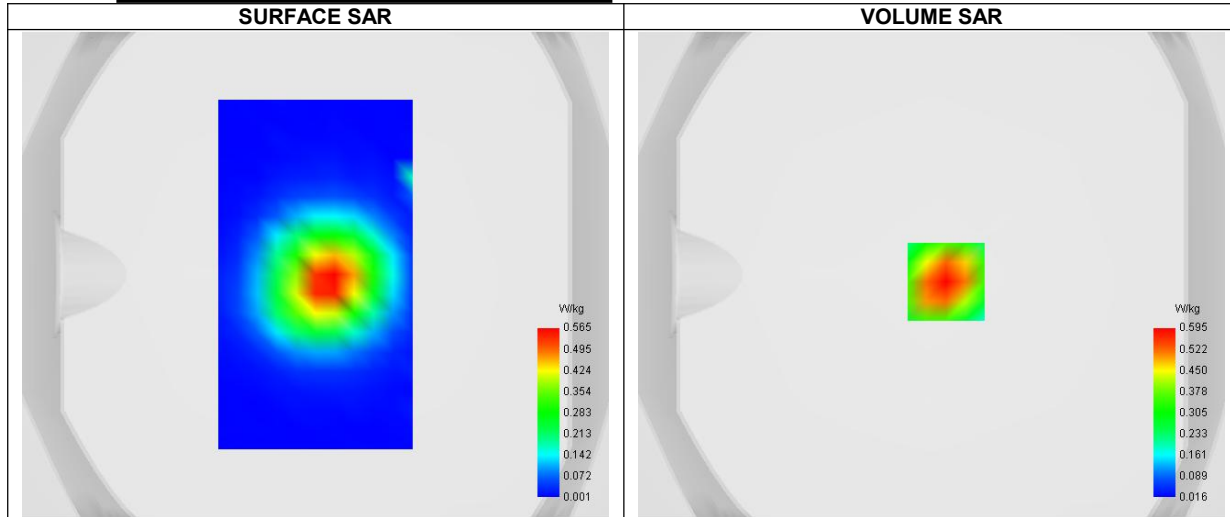
A. Experimental conditions.

Probe	0125-EPGO-445
ConvF	1.20
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5.0mm, Complete
Phantom	Validation plane
Device Position	Body
Band	LTE band 66
Channels/Frequency	Higher (132572)/ frequency 1770.000 Mhz
Signal	LTE FDD
Cell Bandwidth	20 Mhz
Modulation	SC-OFDM - QPSK
RB offset	99
RB size	1

B. Permittivity

Middle TX Frequency (MHz)	1778.910
Relative permittivity (real part)	40.265
Relative permittivity (imaginary part)	16.794
Conductivity (S/m)	1.357

C. SAR Surface and Volume



Maximum location: X=6.00, Y=-3.00 ; SAR Peak: 0.83 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.331
SAR 1g (W/Kg)	0.561
Variation (%)	-4.470
Horizontal validation criteria: minimum distance (mm)	17.888544
Vertical validation criteria: SAR ratio M2/M1 (%)	66.178312

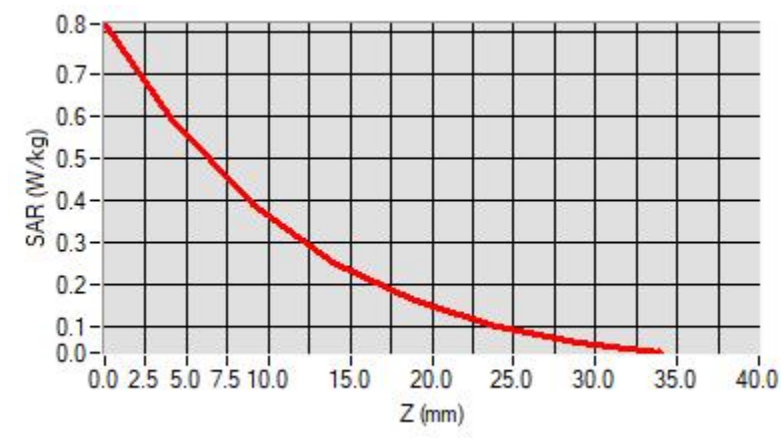
E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.817	0.595	0.393	0.252	0.164	0.104	0.065

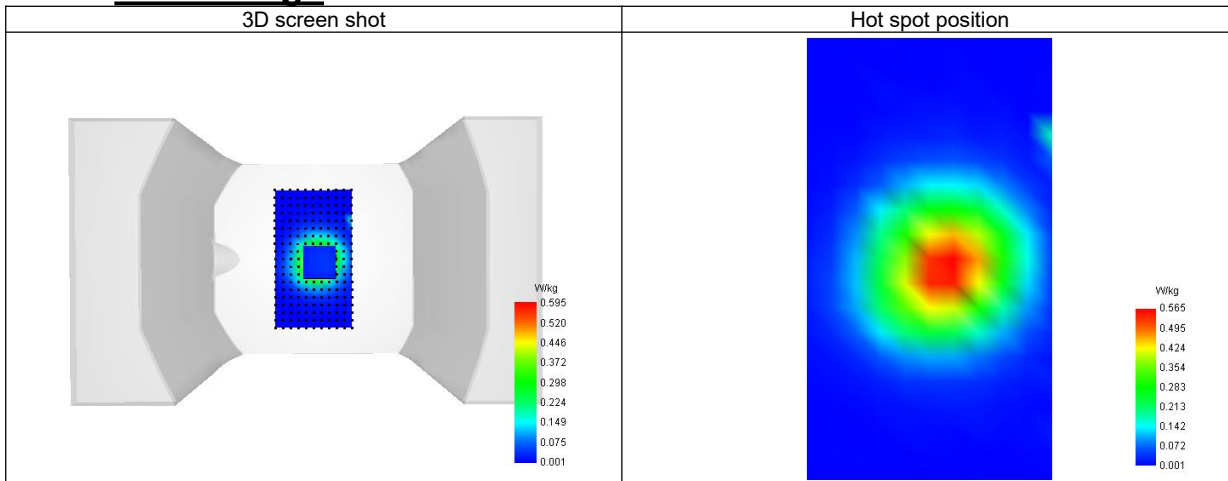
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F. 3D Image



32-wrist-worn: back position in dist. 0mm Channel 132572 in LTE Band 66

SAR Measurement at LTE band 66 (Body, Validation Plane)

Date of measurement: 14/8/2025

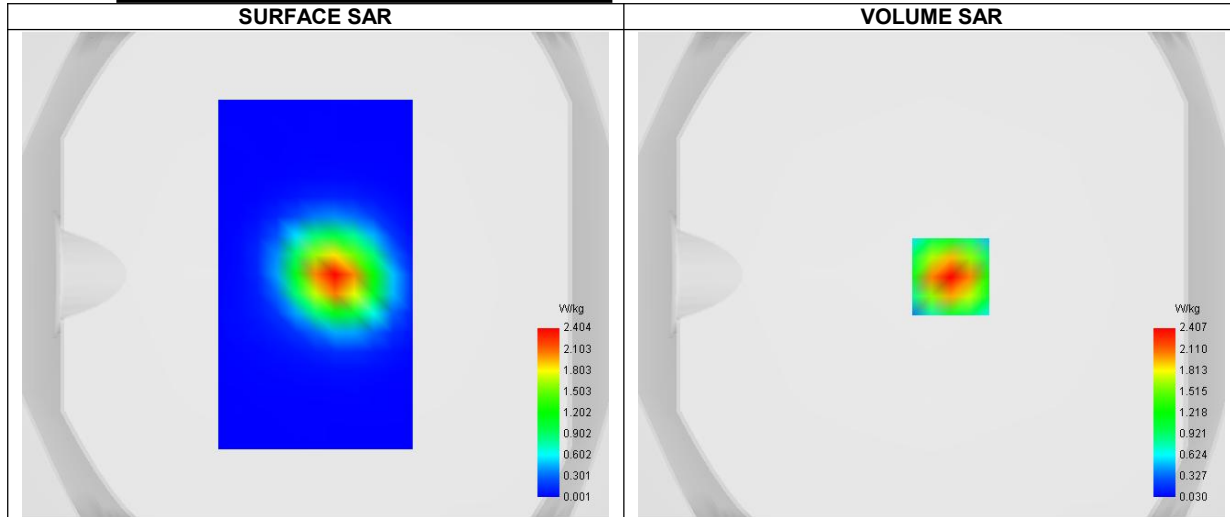
A. Experimental conditions.

Probe	0125-EPGO-445
ConvF	1.20
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5.0mm, Complete
Phantom	Validation plane
Device Position	Body
Band	LTE band 66
Channels/Frequency	Higher (132572)/ frequency 1770.000 Mhz
Signal	LTE FDD
Cell Bandwidth	20 Mhz
Modulation	SC-OFDM - QPSK
RB offset	99
RB size	1

B. Permittivity

Middle TX Frequency (MHz)	1778.910
Relative permittivity (real part)	40.265
Relative permittivity (imaginary part)	16.794
Conductivity (S/m)	1.357

C. SAR Surface and Volume



Maximum location: X=8.00, Y=-1.00 ; SAR Peak: 3.36 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	1.252
SAR 1g (W/Kg)	2.243
Variation (%)	1.450
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	65.994680

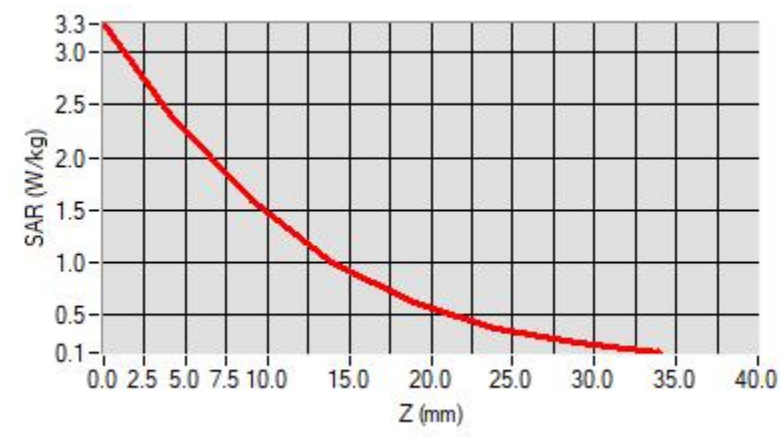
E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	3.274	2.407	1.589	1.004	0.622	0.376	0.228

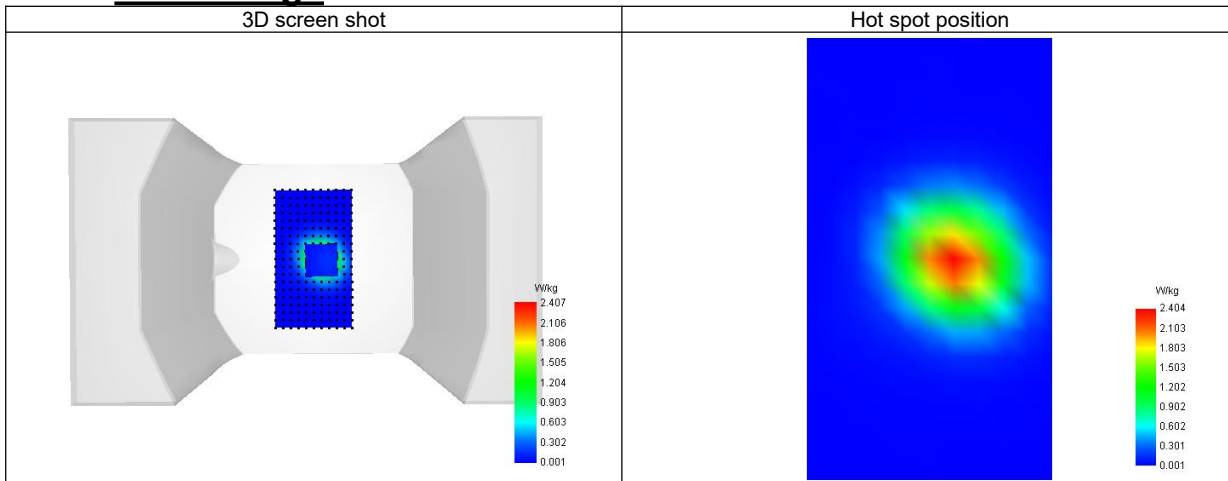
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F. 3D Image



33-Next-to-mouth: front position in dist. 10mm Channel 11 in 802.11b

SAR Measurement at ISM (Body, Validation Plane)

Date of measurement: 16/8/2025

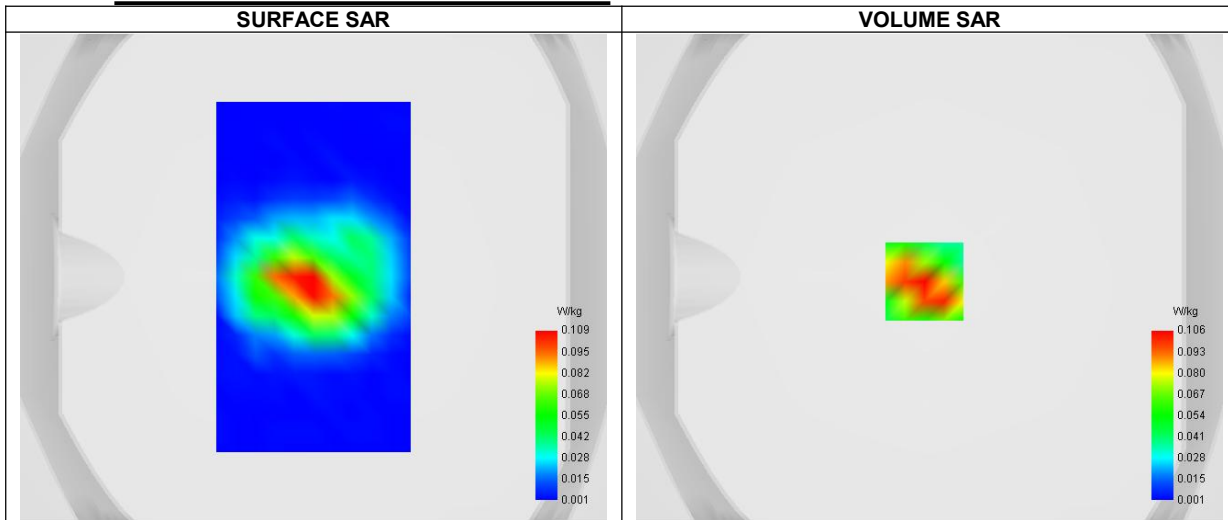
A. Experimental conditions.

Probe	0125-EPGO-445
ConvF	1.40
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5.0mm, Complete
Phantom	Validation plane
Device Position	Body
Band	ISM
Channels/Frequency	Higher (11)/ frequency 2462.000 Mhz
Signal	IEEE 802.11 b

B. Permittivity

Middle TX Frequency (MHz)	2462.000
Relative permittivity (real part)	38.818
Relative permittivity (imaginary part)	13.578
Conductivity (S/m)	1.829

C. SAR Surface and Volume



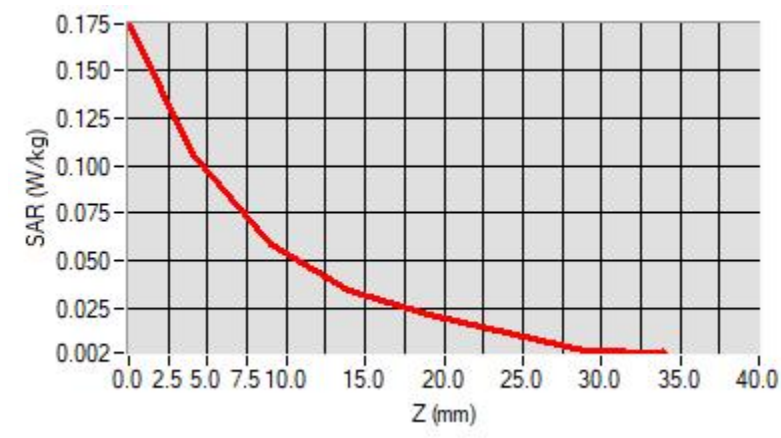
Maximum location: X=-2.00, Y=-2.00 ; SAR Peak: 0.18 W/kg

D. SAR 1g & 10g

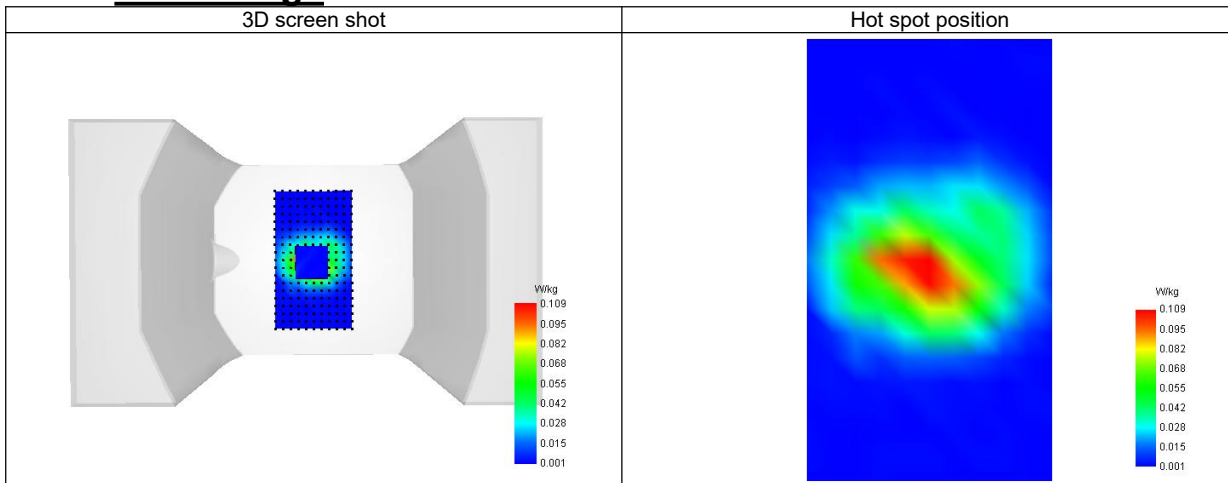
SAR 10g (W/Kg)	0.053
SAR 1g (W/Kg)	0.102
Variation (%)	3.150
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	55.358300

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.175	0.106	0.059	0.035	0.021	0.012	0.002



F. 3D Image



34-wrist-worn: back position in dist. 0mm Channel 11 in 802.11b

SAR Measurement at ISM (Body, Validation Plane)

Date of measurement: 16/8/2025

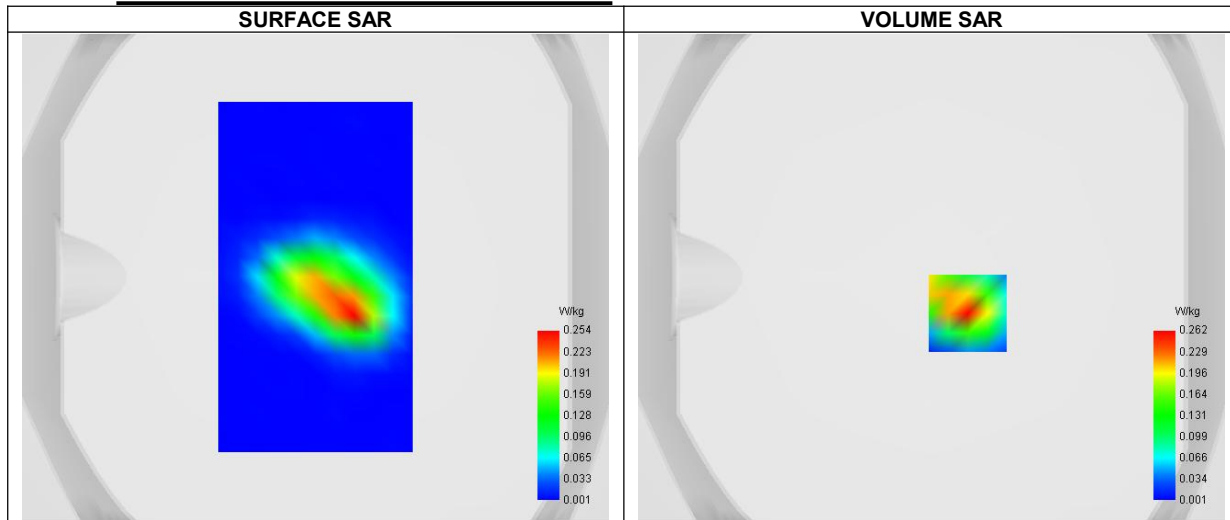
A. Experimental conditions.

Probe	0125-EPGO-445
ConvF	1.40
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5.0mm, Complete
Phantom	Validation plane
Device Position	Body
Band	ISM
Channels/Frequency	Higher (11)/ frequency 2462.000 Mhz
Signal	IEEE 802.11 b

B. Permittivity

Middle TX Frequency (MHz)	2462.000
Relative permittivity (real part)	38.818
Relative permittivity (imaginary part)	13.578
Conductivity (S/m)	1.829

C. SAR Surface and Volume



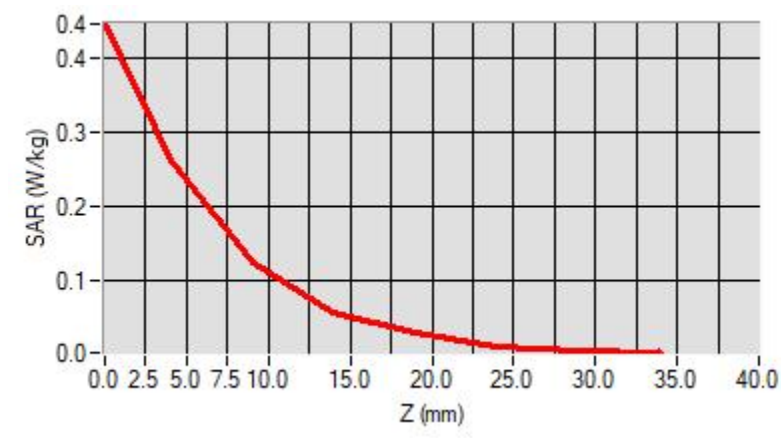
Maximum location: X=15.00, Y=-15.00 ; SAR Peak: 0.45 W/kg

D. SAR 1g & 10g

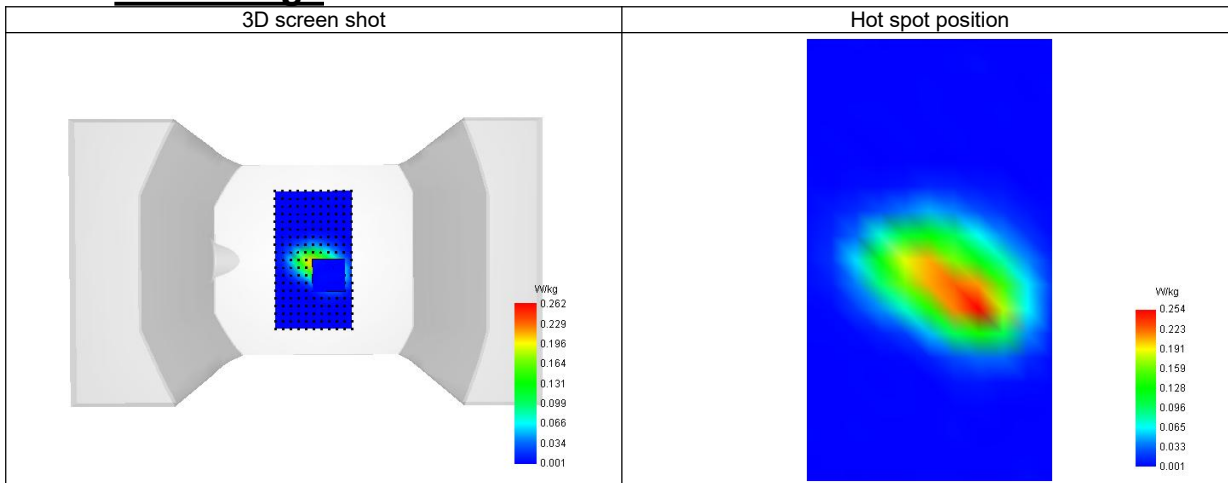
SAR 10g (W/Kg)	0.101
SAR 1g (W/Kg)	0.240
Variation (%)	-1.190
Horizontal validation criteria: minimum distance (mm)	11.313708
Vertical validation criteria: SAR ratio M2/M1 (%)	48.035013

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.444	0.262	0.126	0.058	0.029	0.010	0.007

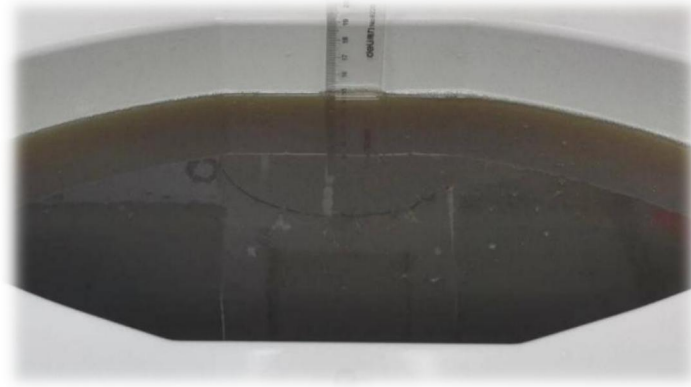


F. 3D Image



ANNEX D SAR Test Setup Photos

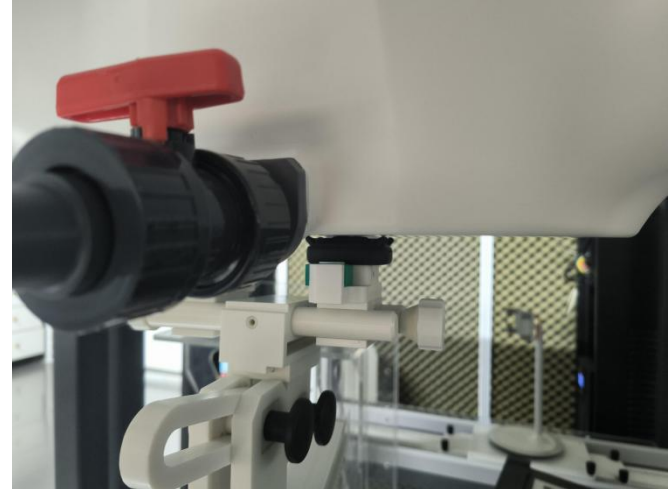
Reference Photo: simulation liquid depth 15cm



Reference Photos



Next-to-mouth (10mm)



wrist-worn (0mm)

ANNEX E EUT External and Internal Photos

Please refer to RF Report.

ANNEX F Calibration Information

Please refer to the document "Calibration.pdf".



BTF Testing Lab (Shenzhen) Co., Ltd.

F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street,
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--END OF REPORT--