
SAR Test Report

Report No.: AGC02931250803FH01

FCC ID : 2BLTR-POC3IP-310

APPLICATION PURPOSE : Original Equipment

PRODUCT DESIGNATION : 4G LTE Network IP Radio

BRAND NAME : TYTECH

MODEL NAME : IP-310

APPLICANT : Quanzhou RadioBoss Technology Co., Ltd

DATE OF ISSUE : Nov. 28, 2025

STANDARD(S) : IEEE Std. 1528:2013
FCC 47 CFR Part 2§2.1093
IEEE Std C95.1™-2019

REPORT VERSION : V1.0

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Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Nov. 28, 2025	Valid	Initial Release

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Test Report

Applicant Name	Quanzhou RadioBoss Technology Co., Ltd
Applicant Address	No.8, Chuangzao Road, Optoelectronics-information industry base, Nan'an, Quanzhou, Fujian, China
Manufacturer Name	Quanzhou RadioBoss Technology Co., Ltd
Manufacturer Address	No.8, Chuangzao Road, Optoelectronics-information industry base, Nan'an, Quanzhou, Fujian, China
Factory Name	Quanzhou RadioBoss Technology Co., Ltd
Factory Address	No.8, Chuangzao Road, Optoelectronics-information industry base, Nan'an, Quanzhou, Fujian, China
Product Designation	4G LTE Network IP Radio
Brand Name	TYTECH
Model Name	IP-310
Series Model	N/A
Different Description	N/A
EUT Voltage	DC 3.7V by battery
Applicable Standard	IEEE Std. 1528:2013 FCC 47 CFR Part 2§2.1093 IEEE Std C95.1™-2019
Date of receipt of test item	Aug. 13, 2025
Test Date	Aug. 17, 2025 to Sep. 01, 2025
Report Template	AGCRT-US-4G/SAR (2021-04-20)

Note: The results of testing in this report apply to the product/system which was tested only.

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Nov. 28, 2025

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Nov. 28, 2025

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1. SUMMARY OF MAXIMUM SAR VALUE

The maximum results of Specific Absorption Rate (SAR) found during testing for EUT are as follows:

Frequency Band	Highest Reported 1g-SAR(W/kg)		SAR Test Limit (W/kg)
	Face up(with 25mm separation)	Body back with all accessories(with 0mm separation)	
GSM 850	0.622	0.875	1.6
PCS 1900	0.221	0.116	
LTE Band 2	0.374	0.518	
LTE Band 4	0.459	0.564	
LTE Band 5	0.455	0.586	
LTE Band 7	0.258	0.406	
LTE Band 12	0.110	0.167	
LTE Band 17	0.107	0.157	
LTE Band 38	0.168	0.269	
LTE Band 40-Lower Side	0.125	0.162	
LTE Band 40- Upper Side	0.188	0.221	
LTE Band 41	0.136	0.228	
WIFI 2.4G	0.036	0.180	
5.8GHz (U-NII-3)	0.308	0.297	
Simultaneous Reported SAR	1.172		
SAR Test Result	PASS		

This device is compliance with Specific Absorption Rate (SAR) for general population/uncontrolled exposure limits (1.6W/kg) specified in IEEE Std. 1528:2013; FCC 47CFR § 2.1093; IEEE/ANSI C95.1:2005 and the following specific FCC Test Procedures:

- KDB 447498 D01 General RF Exposure Guidance v06
- KDB 648474 D04 Handset SAR v01r03
- KDB 865664 D01 SAR Measurement 100MHz to 6GHz v01r04
- KDB 941225 D01 3G SAR Procedures v03r01
- KDB 248227 D01 802 11 Wi-Fi SAR v02r02
- KDB 941225 D05 SAR for LTE Devices v02r05

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2. GENERAL INFORMATION

2.1. EUT Description

General Information	
Product Designation	4G LTE Network IP Radio
Test Model	IP-310
Hardware Version	K996YT2_IP310_MB_P1 V03
Software Version	V03
Device Category	Portable
RF Exposure Environment	Uncontrolled
Antenna Type	GSM/LTE: PIFA Antenna BT/WIFI: PIFA Antenna
GPRS& EGPRS	
Support Band	☒ GSM 850 ☒ PCS 1900
GPRS & EGPRS Type	Class B
GPRS & EGPRS Class	Class 12(1Tx+4Rx, 2Tx+3Rx, 3Tx+2Rx, 4Tx+1Rx)
TX Frequency Range	GSM 850 : 820-850MHz; PCS 1900: 1850-1910MHz;
RX Frequency Range	GSM 850 : 869~894MHz; PCS 1900: 1930~1990MHz
Release Version	R99
Type of modulation	GMSK for GPRS; GMSK & 8-PSK for EGPRS
Antenna Gain	GSM850: 1.3dBi; PCS1900: 1.1dBi
Max. Average Power	GSM850: 32.88dBm; PCS1900: 30.07dBm
Bluetooth	
Bluetooth Version	V4.2
Operation Frequency	2402~2480MHz
Type of modulation	☒ GFSK ☒ π/4-DQPSK ☒ 8-DPSK
Peak Power	6.708dBm
Antenna Gain	-3.80dBi
2.4GHz WIFI	
WIFI Specification	☒ 802.11b ☒ 802.11g ☒ 802.11n(20)
Operation Frequency	2412~2462MHz
Avg. Burst Power	11b: 13.10dBm, 11g: 12.39dBm, 11n(20): 11.44dBm
Antenna Gain	-3.80dBi
5 GHz WIFI	
WIFI Specification	☒ 802.11a ☒ 802.11n20
Operation Frequency	U-NII-3: 5745MHz~5825MHz
Max. conducted Power	U-NII-3: 8.33dBm
Antenna Gain	-2.0dBi

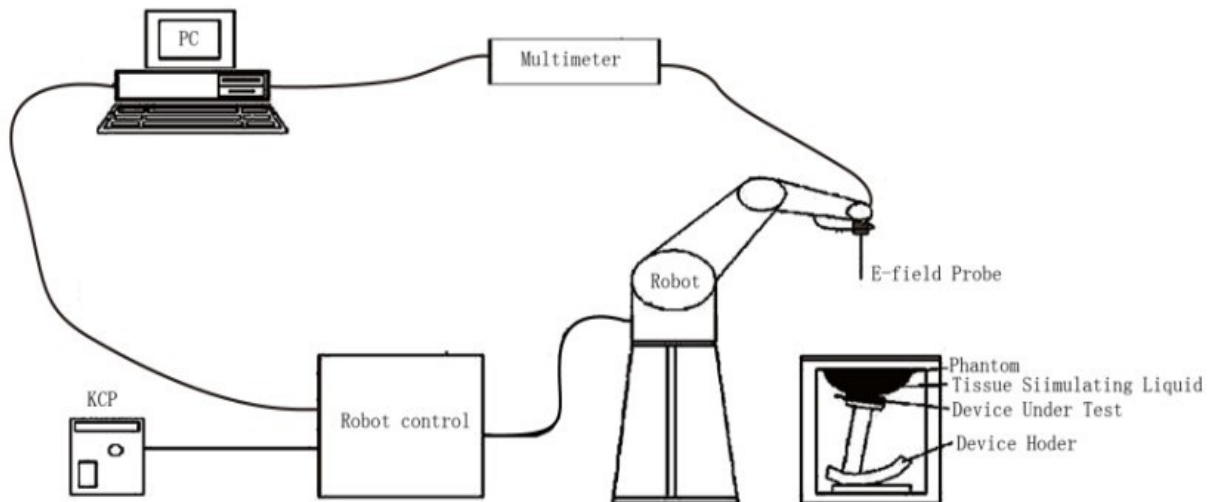
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LTE	
Support Band	☒ FDD Band 2 ☒ FDD Band 4 ☒ FDD Band 5 ☒ FDD Band 7 ☒ FDD Band 12 ☒ FDD Band 17 ☒ TDD Band 38 ☒ TDD Band 40 ☒ TDD Band 41
TX Frequency Range	Band 2:1850-1910MHz; Band 4:1710-1755MHz;Band 5:824-849MHz; Band 7:2500-2570MHz; Band 12:699-716MHz; Band 17: 704-716MHz; Band 38: 2570-2620 MHz; Band 40:2305-2315&2350-2360MHz; Band 41:2496-2690MHz;
RX Frequency Range	Band 2:1930-1990MHz; Band 4:2110-2155MHz; Band 5:869-894MHz; Band 7:2620-2690MHz; Band 12: 729-746 MHz; Band 17: 734-746 MHz; Band 38: 2570-2620 MHz; Band 40:2305-2315&2350-2360MHz; Band 41:2496-2690MHz;
Type of modulation	QPSK, 16QAM
Antenna Gain	Band 2: 1.1dBi; Band 4: 0.7dBi; Band 5: 1.3dBi; Band 7: 2.2dBi; Band 12: 0.3dBi; Band 17:0.9dBi; Band 38: 2.4dBi; Band 40: 2.2dBi; Band 41: 2.4dBi;
Max. Average Power	Band 2: 24.16dBm; Band 4: 23.11dBm; Band 5: 23.20dBm; Band 7:23.21dBm; Band 12: 23.76dBm; Band 17: 23.79dBm; Band 38:23.31 dBm; LTE-Band 40(Lower Side): 22.65dBm; LTE-Band 40 (Upper Side): 22.49dBm; Band 41: 23.25dBm;
Accessories	
Battery	Brand name: N/A Model No. : BATT-310 Voltage and Capacitance: DC 3.7 V & 4000mAh
Earphone	Brand name: N/A Model No. : N/A
Note:1.CMU200 can measure the average power and Peak power at the same time 2.The sample used for testing is end product. 3. The test sample has no any deviation to the test method of standard mentioned in page 1.	
Product	Type ☒ Production unit ☐ Identical Prototype

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3. SAR MEASUREMENT SYSTEM

3.1. The SATIMO system used for performing compliance tests consists of following items



The COMOSAR system for performing compliance tests consists of the following items:

- The PC. It controls most of the bench devices and stores measurement data. A computer running WinXP and the Opensar software.
- The E-Field probe. The probe is a 3-axis system made of 3 distinct dipoles. Each dipole returns a voltage in function of the ambient electric field.
- The Keithley multimeter measures each probe dipole voltages.
- The SAM phantom simulates a human head. The measurement of the electric field is made inside the phantom.
- The liquids simulate the dielectric properties of the human head tissues.
- The network emulator controls the mobile phone under test.
- The validation dipoles are used to measure a reference SAR. They are used to periodically check the bench to make sure that there is no drift of the system characteristics over time.
- The phantom, the device holder and other accessories according to the targeted measurement.

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3.2. COMOSAR E-Field Probe

The SAR measurement is conducted with the dosimetric probe manufactured by SATIMO. The probe is specially designed and calibrated for use in liquid with high permittivity. The dosimetric probe has special calibration in liquid at different frequency. SATIMO conducts the probe calibration in compliance with international and national standards (e.g. IEEE 1528 and relevant KDB files.) The calibration data are in Appendix D.

Isotropic E-Field Probe Specification

Model	SSE2	
Manufacture	MVG	
Identification No.	2023-EPGO-414	
Frequency	0.15GHz-7.5GHz Linearity:±0.10dB(0.15GHz-7.5GHz)	
Dynamic Range	0.01W/kg-100W/kg Linearity:±0.10dB	
Dimensions	Overall length:330mm Length of individual dipoles:2mm Maximum external diameter:8mm Probe Tip external diameter:2.5mm Distance between dipoles/ probe extremity:1mm	
Application	High precision dosimetric measurements in any exposure scenario (e.g., very strong gradient fields). Only probe which enables compliance testing for frequencies up to 6 GHz with precisin of better 30%.	

3.3. Robot

The COMOSAR system uses the KUKA robot from SATIMO SA (France).For the 6-axis controller COMOSAR system, the KUKA robot controller version from SATIMO is used.

The XL robot series have many features that are important for our application:

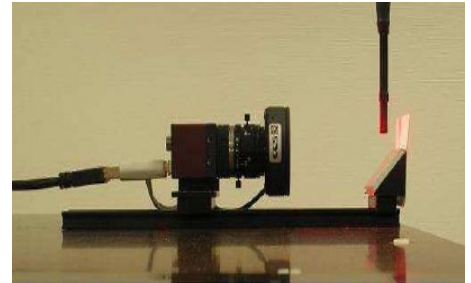
- ☐ High precision (repeatability 0.02 mm)
- ☐ High reliability (industrial design)
- ☐ Jerk-free straight movements
- ☐ Low ELF interference (the closed metallic construction shields against motor control fields)
- ☐ 6-axis controller



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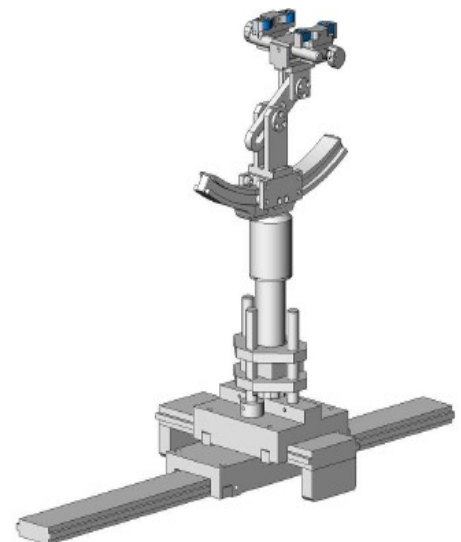
3.4. Video Positioning System

The video positioning system is used in OpenSAR to check the probe. Which is composed of a camera, LED, mirror and mechanical parts. The camera is piloted by the main computer with firewire link. During the process, the actual position of the probe tip with respect to the robot arm is measured, as well as the probe length and the horizontal probe offset. The software then corrects all movements, such that the robot coordinates are valid for the probe tip. The repeatability of this process is better than 0.1 mm. If a position has been taught with an aligned probe, the same position will be reached with another aligned probe within 0.1 mm, even if the other probe has different dimensions. During probe rotations, the probe tip will keep its actual position.



3.5. Device Holder

The COMOSAR device holder is designed to cope with different positions given in the standard. It has two scales for the device rotation (with respect to the body axis) and the device inclination (with respect to the line between the ear reference points). The rotation center for both scales is the ear reference point (EPR). Thus the device needs no repositioning when changing the angles. The COMOSAR device holder has been made out of low-loss POM material having the following dielectric parameters: relative permittivity $\epsilon_r = 3$ and loss tangent $\delta = 0.02$. The amount of dielectric material has been reduced in the closest vicinity of the device, since measurements have suggested that the influence of the clamp on the test results could thus be lowered.



3.6. SAM Twin Phantom

The SAM twin phantom is a fiberglass shell phantom with 2mm shell thickness (except the ear region where shell thickness increases to 6mm). It has three measurement areas:

- ☐ Left head
- ☐ Right head
- ☐ Flat phantom



The bottom plate contains three pair of bolts for locking the device holder. The device holder positions are adjusted to the standard measurement positions in the three sections. A white cover is provided to tap the phantom during off-periods to prevent water evaporation and changes in the liquid parameters. On the phantom top, three reference markers are provided to identify the phantom position with respect to the robot.

ELLI39 Phantom

The Flat phantom is a fiberglass shellphantom with 2mm+/- 0.2 mm shell thickness. It has only one measurement area for Flat phantom



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4. SAR MEASUREMENT PROCEDURE

4.1. Specific Absorption Rate (SAR)

SAR is related to the rate at which energy is absorbed per unit mass in 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 occupational/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 given mass 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 can be obtained using either of the following equations:

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

$$SAR = c_h \left. \frac{dT}{dt} \right|_{t=0}$$

Where

SAR	is the specific absorption rate in watts per kilogram;
E	is the r.m.s. value of the electric field strength in the tissue in volts per meter;
σ	is the conductivity of the tissue in siemens per metre;
ρ	is the density of the tissue in kilograms per cubic metre;
c _h	is the heat capacity of the tissue in joules per kilogram and Kelvin;

$\left. \frac{dT}{dt} \right|_{t=0}$ is the initial time derivative of temperature in the tissue in kelvins per second

4.2. SAR Measurement Procedure

Step 1: Power Reference Measurement

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

Step 2: Area Scan

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

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

	$\leq 3 \text{ GHz}$	$> 3 \text{ GHz}$
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface	$5 \pm 1 \text{ mm}$	$\frac{1}{2} \cdot \delta \cdot \ln(2) \pm 0.5 \text{ mm}$
Maximum probe angle from probe axis to phantom surface normal at the measurement location	$30^\circ \pm 1^\circ$	$20^\circ \pm 1^\circ$
Maximum area scan spatial resolution: $\Delta x_{\text{Area}}, \Delta y_{\text{Area}}$	$\leq 2 \text{ GHz}: \leq 15 \text{ mm}$ $2 - 3 \text{ GHz}: \leq 12 \text{ mm}$	$3 - 4 \text{ GHz}: \leq 12 \text{ mm}$ $4 - 6 \text{ GHz}: \leq 10 \text{ mm}$
	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 $\leq$ the corresponding x or y dimension of the test device with at least one measurement point on the test device.	

Step 3: Zoom Scan

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

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

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

Step 4: Power Drift Measurement

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

4.3. RF Exposure Conditions

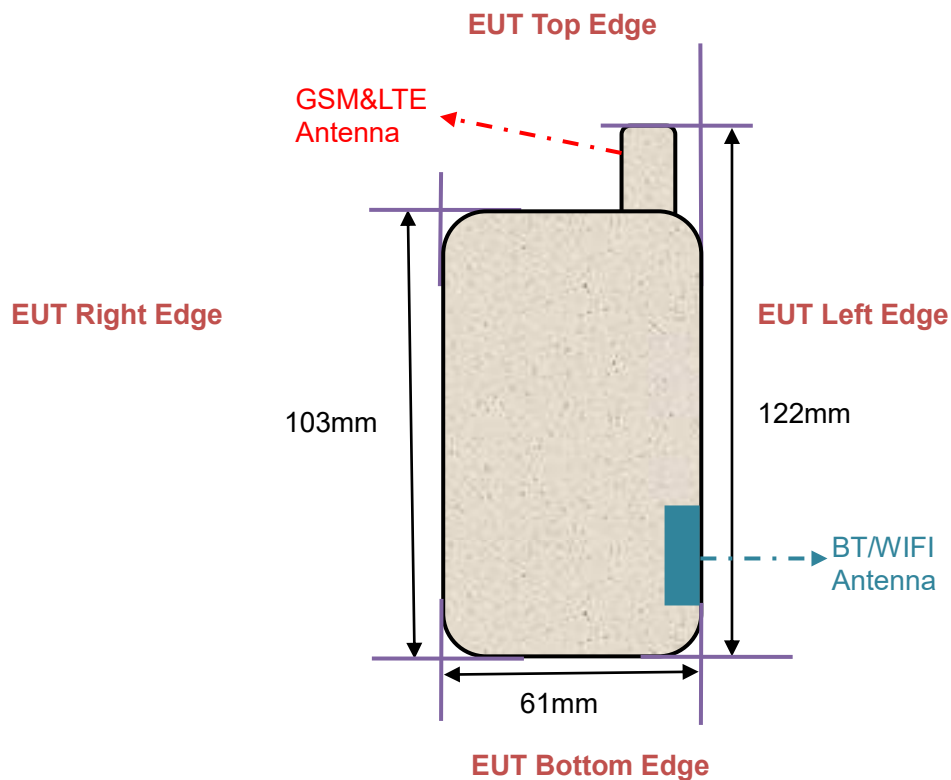
Test Configuration and setting:

The EUT is a model of GSM Portable Mobile Station (MS). It supports GSM/GPRS/EGPRS, LTE, BT, WIFI, and not support hot spot mode.

For WWAN SAR testing, the device was controlled by using a base station emulator. Communication between the device and the emulator were established by air link. The distance between the EUT and the antenna is larger than 50cm, and the output power radiated from the emulator antenna is at least 30db smaller than the output power of EUT.

For WLAN testing, the EUT is configured with the WLAN continuous TX tool through engineering command.

Antenna Location: (the back view)



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5. TISSUE 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 15cm. For head SAR testing the liquid height from the ear reference point (ERP) of the phantom to the liquid top surface is larger than 15cm For body SAR testing, the liquid height from the center of the flat phantom to the liquid top surface is larger than 15cm. The nominal dielectric values of the tissue simulating liquids in the phantom and the tolerance of 5% are listed in 5.2

5.1. The composition of the tissue simulating liquid

Ingredient (% Weight) Frequency (MHz)	Water	NaCl	Polysorbate 20	DGBE	1,2- Propanediol	Triton X-100	Diethylen glycol monohex ylether
750 Head	35	2	0.0	0.0	63	0.0	0.0
835 Head	50.36	1.25	48.39	0.0	0.0	0.0	0.0
1750 Head	52.64	0.36	0.0	47	0.0	0.0	0.0
1900 Head	54.9	0.18	0.0	44.92	0.0	0.0	0.0
2300 Head	62.82	0.51	0.0	36.67	0.0	0.0	0.0
2450 Head	71.88	0.16	0.0	7.99	0.0	19.97	0.0
2600 Head	55.242	0.306	0	44.452	0	0	0.0
5000 Head	65.52	0.0	0.0	0.0	0.0	17.24	17.24

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5.2. Tissue Dielectric Parameters for Head and Body Phantoms

The head tissue dielectric parameters recommended by the IEEE 1528 have been incorporated in the following table. These head parameters are derived from planar layer models simulating the highest expected SAR for the dielectric properties and tissue thickness variations in a human head. Other head and body tissue parameters that have not been specified in IEEE 1528 are derived from the tissue dielectric parameters computed from the 4-Cole-Cole equations described in Reference [12] and extrapolated according to the head parameters specified in IEEE 1528.

Target Frequency (MHz)	head		body	
	ϵ_r	σ (S/m)	ϵ_r	σ (S/m)
300	45.3	0.87	45.3	0.87
450	43.5	0.87	43.5	0.87
750	41.9	0.89	41.9	0.89
835	41.5	0.90	41.5	0.90
900	41.5	0.97	41.5	0.97
915	41.5	1.01	41.5	1.01
1450	40.5	1.20	40.5	1.20
1610	40.3	1.29	40.3	1.29
1750	40.1	1.37	40.1	1.37
1800 – 2000	40.0	1.40	40.0	1.40
2300	39.5	1.67	39.5	1.67
2450	39.2	1.80	39.2	1.80
2600	39.0	1.96	39.0	1.96
3000	38.5	2.40	38.5	2.40
5200	36.0	4.66	36.0	4.66
5300	35.9	4.76	35.9	4.76
5600	35.5	5.07	35.5	5.07
5800	35.3	5.27	35.3	5.27

(ϵ_r = relative permittivity, σ = conductivity and ρ = 1000 kg/m³)

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5.3. Tissue Calibration Result

The dielectric parameters of the liquids were verified prior to the SAR evaluation using SATIMO Dielectric Probe Kit and R&S Network Analyzer ZVL6.

Tissue Stimulant Measurement for 750MHz							
Head	Fr. (MHz)	Dielectric Parameters ($\pm 5\%$)		Ambient Temp [°C]	Relative Humidity (%)	Tissue Temp [°C]	Test time
		ϵ_r 41.9 (39.805-43.995)	δ [s/m] 0.89(0.8455-0.9345)				
	707.5	43.21	0.88				
	710	42.64	0.90				
	750	41.47	0.92	20.9	56.6	20.8	Aug. 22, 2025

Tissue Stimulant Measurement for 835MHz							
Head	Fr. (MHz)	Dielectric Parameters ($\pm 5\%$)		Ambient Temp [°C]	Relative Humidity (%)	Tissue Temp [°C]	Test time
		ϵ_r 41.5 (39.425-43.575)	δ [s/m] 0.90 (0.855-0.945)				
	824.2	41.67	0.89				
	835	41.28	0.91				
	836.5	40.69	0.92				
	836.6	40.02	0.93				
	848.8	39.91	0.93				
				21.2	54.2	20.9	Aug. 23, 2025

Tissue Stimulant Measurement for 1750MHz							
Head	Fr. (MHz)	Dielectric Parameters ($\pm 5\%$)		Ambient Temp [°C]	Relative Humidity (%)	Tissue Temp [°C]	Test time
		ϵ_r 40.1 (38.095-42.105)	δ [s/m] 1.37 (1.302-1.439)				
	1732.5	40.12	1.40				
	1750	39.73	1.42				
				20.1	48.5	19.9	Aug. 17, 2025

Tissue Stimulant Measurement for 1900MHz							
Head	Fr. (MHz)	Dielectric Parameters ($\pm 5\%$)		Ambient Temp [°C]	Relative Humidity (%)	Tissue Temp [°C]	Test time
		ϵ_r 40.00 (38.00-42.00)	δ [s/m] 1.40 (1.33-1.47)				
	1880	39.67	1.40				
	1900	39.44	1.42				
				20.8	49.7	20.7	Aug. 18, 2025

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Tissue Stimulant Measurement for 2300MHz							
Head	Fr. (MHz)	Dielectric Parameters ($\pm 5\%$)		Ambient Temp [°C]	Relative Humidity (%)	Tissue Temp [°C]	Test time
		ϵ_r 39.5 (37.525-41.475)	δ [s/m] 1.67 (1.587-1.754)				
	2300	40.16	1.71				
	2310	39.82	1.73				
	2355	38.61	1.74	20.5	53.3	20.1	Aug. 19, 2025

Tissue Stimulant Measurement for 2450MHz							
Head	Fr. (MHz)	Dielectric Parameters ($\pm 5\%$)		Ambient Temp [°C]	Relative Humidity (%)	Tissue Temp [°C]	Test time
		ϵ_r 39.2 (37.24-41.16)	δ [s/m] 1.80(1.71-1.89)				
	2437	39.68	1.79				
	2450	39.47	1.81				

Tissue Stimulant Measurement for 2600MHz							
Head	Fr. (MHz)	Dielectric Parameters ($\pm 5\%$)		Ambient Temp [°C]	Relative Humidity (%)	Tissue Temp [°C]	Test time
		ϵ_r 39 (37.05-40.95)	δ [s/m] 1.96(1.86-2.06)				
	2535	39.66	1.86				
	2593	39.13	1.88				
	2595	38.71	1.89				
	2600	38.43	1.90	19.9	54.9	19.6	Aug. 20, 2025

Tissue Stimulant Measurement for 5800MHz							
Head	Fr. (MHz)	Dielectric Parameters ($\pm 5\%$)		Ambient Temp [°C]	Relative Humidity (%)	Tissue Temp [°C]	Test time
		ϵ_r 35.3 (33.535-37.065)	δ [s/m] 5.27 (5.007-5.534)				
	5785	35.10	5.13				
	5800	34.61	5.15				

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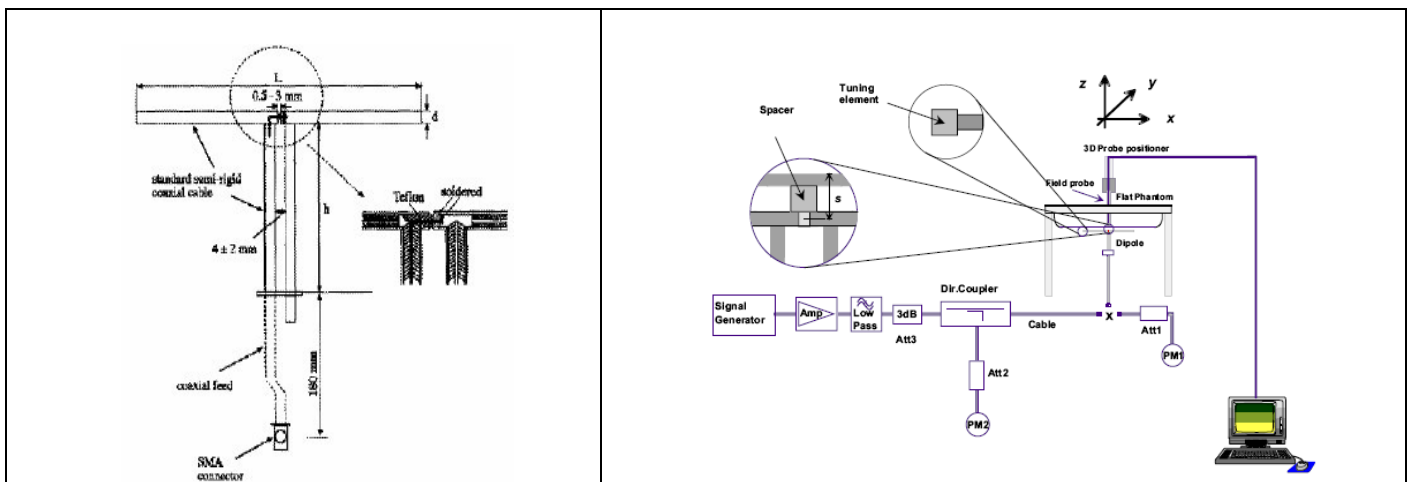
6. SAR SYSTEM CHECK PROCEDURE

6.1. SAR System Check Procedures

SAR system check is required to confirm measurement accuracy, according to the tissue dielectric media, probe calibration points and other system operating parameters required for measuring the SAR of a test device. The system verification must be performed for each frequency band and within the valid range of each probe calibration point required for testing the device. The same SAR probe(s) and tissue-equivalent media combinations used with each specific SAR system for system verification must be used for device testing. When multiple probe calibration points are required to cover substantially large transmission bands, independent system verifications are required for each probe calibration point. A system verification must be performed before each series of SAR measurements using the same probe calibration point and tissue-equivalent medium. Additional system verification should be considered according to the conditions of the tissue-equivalent medium and measured tissue dielectric parameters, typically every three to four days when the liquid parameters are remeasured or sooner when marginal liquid parameters are used at the beginning of a series of measurements.

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

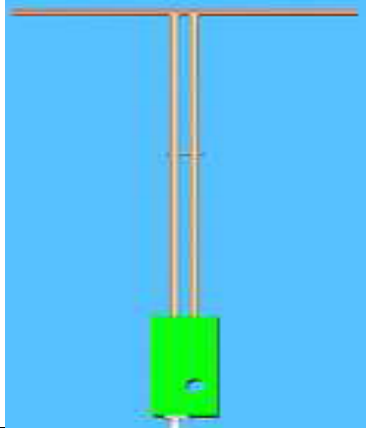
The system check verifies that the system operates within its specifications. It's performed daily or before every SAR measurement. The system check uses normal SAR measurement in the flat section of the phantom with a matched dipole at a specified distance. The system check setup is shown as below.



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6.2. SAR System Check

6.2.1. Dipoles

	The dipoles are based on the IEEE-1528 standard, and are complied with mechanical and electrical specifications in line with the requirements of IEEE. the table below provides details for the mechanical and electrical Specifications for the dipoles.
	The dipole is based on the IEEE-1528 standard, and is complied with mechanical and electrical specifications in line with the requirements of IEEE. The table below provides details for the mechanical and electrical specifications for the wave guide.

Frequency	L (mm)	h (mm)	d (mm)
750MHz	176	100	6.35
835MHz	161.0	89.8	3.6
1800MHz	71.6	41.7	3.6
1900MHz	68	39.5	3.6
2300MHz	55.5	32.6	3.6
2450MHz	51.5	30.4	3.6
2600MHz	48.5	28.8	3.6
5000MHz	20.6	40.3	3.6

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6.2.2. System Check Result

System Performance Check at 750MHz&835MHz &1800MHz &1900MHz &2300MHz &2450MHz&2600MHz & 5200-5800MHz for Head							
Validation Kit: SN 2216 DIP 0G750-417& SN 1516 DIP 0G835-399& SN 4611 DIP 1G800-186& SN 2915 DIP 1G900-389& SN 2216 DIP 2G300-412& SN 2915 DIP 2G450-393& SN 2216 DIP 2G600-407& SN 1722 DIP 5G000-671							
Frequency [MHz]	Target Value(W/kg)		Reference Result ($\pm 10\%$)		Tested Value(W/kg)		Test time
	1g	10g	1g	10g	1g	10g	
750	8.77	5.51	7.89-9.65	4.96-6.06	8.76	5.61	Aug. 22, 2025
835	9.67	6.29	8.70-10.64	5.66-6.92	9.61	6.14	Aug. 23, 2025
1800	36.11	19.04	32.50-39.72	17.14-20.94	36.71	19.00	Aug. 17, 2025
1900	39.83	20.59	35.85-43.81	18.53-22.65	39.64	20.05	Aug. 18, 2025
2300	48.73	23.33	43.86-53.60	21.00-25.66	49.35	22.75	Aug. 19, 2025
2450	53.5	25.0	48.15-58.85	22.50-27.50	52.89	23.69	Aug. 27, 2025
2600	55.22	25.01	49.70-60.74	22.51-27.51	51.60	23.23	Aug. 20, 2025
5800	75.01	21.84	67.51-82.51	19.66-24.02	76.57	22.14	Sep. 01, 2025

Note:

(1) We use a CW signal of 18dBm/10dBm for system check, and then all SAR value are normalized to 1W forward power. The result must be within $\pm 10\%$ of target value.

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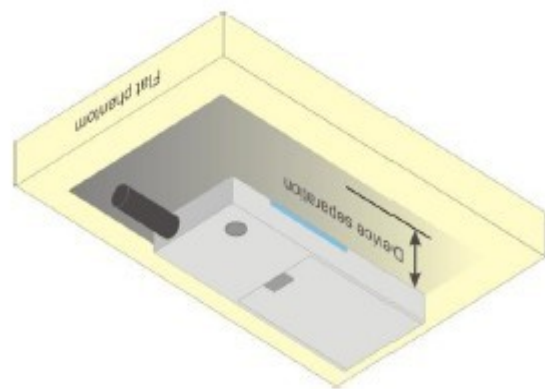
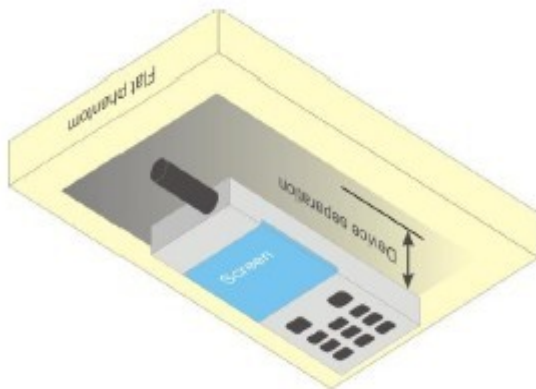
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7. EUT TEST POSITION

This EUT was tested in **Face up and Body back with all accessories.**

7.1. Test Position

- (1) To position the EUT parallel to the phantom surface.
- (2) To adjust the EUT parallel to the flat phantom.
- (3) To adjust the distance between the EUT surface and the flat phantom to **25mm** while used in front of face, and body back touch with all accessories.



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8. SAR EXPOSURE LIMITS

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

Type Exposure	Uncontrolled Environment Limit (W/kg)
Spatial Peak SAR (1g cube tissue for brain or body)	1.60
Spatial Average SAR (Whole body)	0.08
Spatial Peak SAR (Limbs)	4.0

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9. TEST FACILITY

Test Site	Attestation of Global Compliance (Shenzhen) Co., Ltd
Location	1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China
Designation Number	CN1259
FCC Test Firm Registration Number	975832
A2LA Cert. No.	5054.02
Description	Attestation of Global Compliance(Shenzhen) Co., Ltd is accredited by A2LA

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10. TEST EQUIPMENT LIST

No.	Equipment description	Manufacturer/ Model	Identification No.	Software version	Current calibration date	Next calibration date
AGC-HE-A103	SAR Probe	MVG	2023-EPGO-414	N/A	2025-05-06	2026-05-05
AGC-HE-E016	Phantom	SATIMO	SN_4511_SAM90	N/A	Validated. No cal required.	Validated. No cal required.
AGC-ER-E020	WIRELESS COMMUNICATION TEST SET	Agilent-8960	GB46200384	N/A	2025-05-21	2026-05-20
AGC-ER-E032	Wireless communication instrument	R&S- CMW500	121209	N/A	2025-05-16	2026-05-15
AGC-HE-E005	Multimeter	Keithley 2000	1350784	N/A	2025-05-16	2026-05-15
AGC-HE-S001	SAR Software	SATIMO-OpenSAR	N/A	OpenSAR V4_02_32	N/A	N/A
AGC-HE-A054	Dipole	SATIMO SID750	SN 2216 DIP 0G750-417	N/A-	2025-05-15	2028-05-14
AGC-HE-A056	Dipole	SATIMO SID835	SN 1516 DIP 0G835-399	N/A	2025-05-15	2028-05-14
AGC-HE-A016	Dipole	SATIMO SID1800	SN 4611 DIP 1G800-186	N/A	2025-05-12	2028-05-11
AGC-HE-A059	Dipole	SATIMO SID1900	SN 2915 DIP 1G900-389	N/A	2025-05-15	2028-05-14
AGC-HE-A063	Dipole	SATIMO SID2300	SN 2216 DIP 2G300-412	N/A	2025-05-16	2028-05-15
AGC-HE-A061	Dipole	SATIMO SID2450	SN 2915 DIP 2G450-393	N/A	2025-05-16	2028-05-15
AGC-HE-A062	Dipole	SATIMO SID2600	SN 2216 DIP 2G600-407	N/A	2025-05-16	2028-05-15
AGC-HE-A101	Dipole	SID5000	SN 1722 DIP 5G000-671	N/A	2025-05-16	2028-05-15
AGC-HE-E021	Signal Generator	Agilent-E4438C	US41461365	V5.03	2025-05-21	2026-05-20
AGC-EM-E061	EXA Signal Analyzer	Agilent / N9010A	MY53470504	N/A	2025-05-08	2026-05-07
AGC-HE-E004	Network Analyzer	Rhode & Schwarz ZVL6	101443	3.2	2025-07-18	2026-07-17
AGC-ER-A001	Attenuator	SMA-JK	N/A	N/A	2025-09-05	2027-09-04
AGC-EM-E019	Amplifier	AS0104-55 55	1004793	N/A	N/A	N/A
AGC-EM-E040	Directional Couple	Werlatone/ C5571-10	SN99463	N/A	2024-02-01	2026-01-31
AGC-EM-E041	Directional Couple	Werlatone/ C6026-10	SN99482	N/A	2024-02-01	2026-01-31
AGC-BQ-E016	Power Sensor	NRP-Z21	104604	N/A	2025-05-16	2026-05-15
AGC-HE-E023	Power Sensor	NRP-Z23	100323	N/A	2025-01-14	2026.01-13
AGC-HE-S004	Power Viewer	R&S	V2.3.1.0	N/A	N/A	N/A
AGC-HE-A001	Calibration standard parts for network sub - port	R&S/ ZV-Z132	100707	V2.3.1.0	2024-11-08	2025-11-07
AGC-HE-A002	Thermometer	DigiMate/TP677	3811930452	N/A	2025-05-24	2027-05-23

Note: Per KDB 865664 Dipole SAR Validation, AGC Lab has adopted 3 years calibration intervals. 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 is within 5Ω of calibrated measurement.

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11. MEASUREMENT UNCERTAINTY

SATIMO Uncertainty- 2023-EPGO-414 Measurement uncertainty for DUT averaged over 1 gram / 10 gram.									
Uncertainty Component	Sec.	Tol (+-%)	Prob. Dist.	Div.	Ci (1g)	Ci (10g)	1g Ui (+-%)	10g Ui (+-%)	vi
Measurement System									
Probe calibration	E.2.1	7.000	N	1	1	1	7.000	7.000	∞
Axial Isotropy	E.2.2	0.105	R	1.732	0.707	0.707	0.043	0.043	∞
Hemispherical Isotropy	E.2.2	0.105	R	1.732	0.707	0.707	0.043	0.043	∞
Boundary effect	E.2.3	1.000	R	1.732	1	1	0.577	0.577	∞
Linearity	E.2.4	1.105	R	1.732	1	1	0.638	0.638	∞
System detection limits	E.2.4	1.000	R	1.732	1	1	0.577	0.577	∞
Modulation response	E.2.5	3.000	R	1.732	1	1	1.732	1.732	∞
Readout Electronics	E.2.6	0.021	N	1	1	1	0.021	0.021	∞
Response Time	E.2.7	0.000	R	1.732	1	1	0.000	0.000	∞
Integration Time	E.2.8	1.400	R	1.732	1	1	0.808	0.808	∞
RF ambient conditions-Noise	E.6.1	3.000	R	1.732	1	1	1.732	1.732	∞
RF ambient conditions-reflections	E.6.1	3.000	R	1.732	1	1	1.732	1.732	∞
Probe positioner mechanical tolerance	E.6.2	1.400	R	1.732	1	1	0.808	0.808	∞
Probe positioning with respect to phantom shell	E.6.3	1.400	R	1.732	1	1	0.808	0.808	∞
Extrapolation, interpolation, and integrations algorithms for max. SAR evaluation	E.5	2.300	R	1.732	1	1	1.328	1.328	∞
Test sample Related									
Test sample positioning	E.4.2	2.6	N	1	1	1	2.60	2.60	∞
Device holder uncertainty	E.4.1	3	N	1	1	1	3.00	3.00	∞
Output power variation—SAR drift measurement	E.2.9	5	R	1.732	1	1	2.89	2.89	∞
SAR scaling	E.6.5	5	R	1.732	1	1	2.89	2.89	∞
Phantom and tissue parameters									
Phantom shell uncertainty—shape, thickness, and permittivity	E.3.1	4	R	1.732	1	1	2.309	2.309	∞
Uncertainty in SAR correction for deviations in permittivity and conductivity	E.3.2	1.9	N	1	1	0.84	1.900	1.596	∞
Liquid conductivity measurement	E.3.3	4	N	1	0.78	0.71	3.120	2.840	M
Liquid permittivity measurement	E.3.3	5	N	1	0.23	0.26	1.150	1.300	M
Liquid conductivity—temperature uncertainty	E.3.4	2.5	R	1.732	0.78	0.71	1.126	1.025	∞
Liquid permittivity—temperature uncertainty	E.3.4	2.5	R	1.732	0.23	0.26	0.332	0.375	∞
Combined Standard Uncertainty			RSS				10.533	10.348	
Expanded Uncertainty (95% Confidence interval)			K=2				21.065	20.695	

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SATIMO Uncertainty- 2023-EPGO-414									
System Validation uncertainty for DUT averaged over 1 gram / 10 gram.									
Uncertainty Component	Sec.	Tol (+-%)	Prob. Dist.	Div.	Ci (1g)	Ci (10g)	1g Ui (+-%)	10g Ui (+-%)	vi
Measurement System									
Probe calibration	E.2.1	7.000	N	1	1	1	7.000	7.000	∞
Axial Isotropy	E.2.2	0.105	R	1.732	1.000	1.000	0.061	0.061	∞
Hemispherical Isotropy	E.2.2	0.105	R	1.732	0.000	0.000	0.000	0.000	∞
Boundary effect	E.2.3	1.000	R	1.732	1.000	1.000	0.577	0.577	∞
Linearity	E.2.4	1.105	R	1.732	1.000	1.000	0.638	0.638	∞
System detection limits	E.2.4	1.000	R	1.732	1.000	1.000	0.577	0.577	∞
Modulation response	E.2.5	3.000	R	1.732	0.000	0.000	0.000	0.000	∞
Readout Electronics	E.2.6	0.021	N	1.000	1.000	1.000	0.021	0.021	∞
Response Time	E.2.7	0.000	R	1.732	0.000	0.000	0.000	0.000	∞
Integration Time	E.2.8	1.400	R	1.732	0.000	0.000	0.000	0.000	∞
RF ambient conditions-Noise	E.6.1	3.000	R	1.732	1.000	1.000	1.732	1.732	∞
RF ambient conditions-reflections	E.6.1	3.000	R	1.732	1.000	1.000	1.732	1.732	∞
Probe positioner mechanical tolerance	E.6.2	1.400	R	1.732	1.000	1.000	0.808	0.808	∞
Probe positioning with respect to phantom shell	E.6.3	1.400	R	1.732	1.000	1.000	0.808	0.808	∞
Extrapolation, interpolation, and integrations algorithms for max. SAR evaluation	E.5	2.300	R	1.732	1.000	1.000	1.328	1.328	∞
System validation source									
Deviation of experimental dipole from numerical dipole	E.6.4	5	N	1	1	1	5	5	∞
Input power and SAR drift measurement	8,6.6.4	5	R	1.732	1	1	2.887	2.887	∞
Dipole axis to liquid distance	8,E.6.6	2	R	1.732	1	1	1.155	1.155	∞
Phantom and set-up									
Phantom shell uncertainty—shape, thickness, and permittivity	E.3.1	4	R	1.732	1	1	2.309	2.309	∞
Uncertainty in SAR correction for deviations in permittivity and conductivity	E.3.2	1.9	N	1	1	0.84	1.9	1.596	∞
Liquid conductivity (temperature uncertainty)	E.3.3	4	N	1	0.78	0.71	3.12	2.84	∞
Liquid conductivity (measured)	E.3.3	5	N	1	0.23	0.26	1.15	1.3	M
Liquid permittivity (temperature uncertainty)	E.3.4	2.5	R	1.732	0.78	0.71	1.126	1.025	∞
Liquid permittivity (measured)	E.3.4	2.5	R	1.732	0.23	0.26	0.332	0.375	M
Combined Standard Uncertainty			RSS				10.466	10.279	
Expanded Uncertainty (95% Confidence interval)			K=2				20.931	20.559	

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SATIMO Uncertainty- 2023-EPGO-414									
System Check uncertainty for DUT averaged over 1 gram / 10 gram.									
Uncertainty Component	Sec.	Tol (+-%)	Prob. Dist.	Div.	Ci (1g)	Ci (10g)	1g Ui (+-%)	10g Ui (+-%)	vi
Measurement System									
Probe calibration drift	E.2.1.3	0.500	N	1	1	1	0.5	0.5	∞
Axial Isotropy	E.2.2	0.105	R	1.732	0	0	0	0	∞
Hemispherical Isotropy	E.2.2	0.105	R	1.732	0	0	0	0	∞
Boundary effect	E.2.3	1.000	R	1.732	0	0	0	0	∞
Linearity	E.2.4	1.105	R	1.732	0	0	0	0	∞
System detection limits	E.2.4	1	R	1.732	0	0	0	0	∞
Modulation response	E.2.5	3	R	1.732	0	0	0	0	∞
Readout Electronics	E.2.6	0.021	N	1	0	0	0	0	∞
Response Time	E.2.7	0	R	1.732	0	0	0	0	∞
Integration Time	E.2.8	1.4	R	1.732	0	0	0	0	∞
RF ambient conditions-Noise	E.6.1	3	R	1.732	0	0	0	0	∞
RF ambient conditions-reflections	E.6.1	3	R	1.732	0	0	0	0	∞
Probe positioner mechanical tolerance	E.6.2	1.4	R	$\sqrt{3}$	1	1	0.81	0.81	∞
Probe positioning with respect to phantom shell	E.6.3	1.4	R	$\sqrt{3}$	1	1	0.81	0.81	∞
Extrapolation, interpolation, and integrations algorithms for max. SAR evaluation	E.5	2.3	R	$\sqrt{3}$	0	0	0	0.00	∞
System check source (dipole)									
Deviation of experimental dipoles	E.6.4	2	N	1	1	1	2	2	∞
Input power and SAR drift measurement	8,6.6.4	5	R	$\sqrt{3}$	1	1	2.89	2.89	∞
Dipole axis to liquid distance	8,E.6.6	2	R	$\sqrt{3}$	1	1	1.15	1.15	∞
Phantom and tissue parameters									
Phantom shell uncertainty—shape, thickness, and permittivity	E.3.1	4	R	$\sqrt{3}$	1	1	2.31	2.31	∞
Uncertainty in SAR correction for deviations in permittivity and conductivity	E.3.2	1.9	N	1.000	1	0.84	1.90	1.60	∞
Liquid conductivity measurement	E.3.3	4	N	1.000	0.78	0.71	3.12	2.84	∞
Liquid permittivity measurement	E.3.3	5	N	1.000	0.23	0.26	1.15	1.30	M
Liquid conductivity—temperature uncertainty	E.3.4	2.5	R	$\sqrt{3}$	0.78	0.71	1.13	1.02	∞
Liquid permittivity—temperature uncertainty	E.3.4	2.5	R	$\sqrt{3}$	0.23	0.26	0.33	0.38	M
Combined Standard Uncertainty			RSS				5.562	5.203	
Expanded Uncertainty (95% Confidence interval)			K=2				11.124	10.406	

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12. CONDUCTED POWER MEASUREMENT

GSM BAND

Mode	Frequency(MHz)	Avg. Burst Power(dBm)	Duty cycle Factor(dBm)	Frame Power(dBm)
Maximum Power <1>				
GPRS 850 (1 Slot)	824.2	32.88	-9	23.88
	836.6	32.83	-9	23.83
	848.8	32.72	-9	23.72
GPRS 850 (2 Slot)	824.2	32.11	-6	26.11
	836.6	32.08	-6	26.08
	848.8	31.96	-6	25.96
GPRS 850 (3 Slot)	824.2	30.27	-4.26	26.01
	836.6	30.26	-4.26	26.00
	848.8	30.15	-4.26	25.89
GPRS 850 (4 Slot)	824.2	29.13	-3	26.13
	836.6	29.11	-3	26.11
	848.8	29.02	-3	26.02
EGPRS 850 (1 Slot)	824.2	27.04	-9	18.04
	836.6	27.00	-9	18.00
	848.8	27.07	-9	18.07
EGPRS 850 (2 Slot)	824.2	25.90	-6	19.90
	836.6	25.98	-6	19.98
	848.8	26.04	-6	20.04
EGPRS 850 (3 Slot)	824.2	23.75	-4.26	19.49
	836.6	23.82	-4.26	19.56
	848.8	23.86	-4.26	19.60
EGPRS 850 (4 Slot)	824.2	22.59	-3	19.59
	836.6	22.65	-3	19.65
	848.8	22.63	-3	19.63

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Mode	Frequency(MHz)	Avg. Burst Power(dBm)	Duty cycle Factor(dBm)	Frame Power(dBm)
Maximum Power <2>				
GPRS 850 (1 Slot)	824.2	32.79	-9	23.79
	836.6	32.70	-9	23.70
	848.8	32.25	-9	23.25
GPRS 850 (2 Slot)	824.2	31.25	-6	25.25
	836.6	31.54	-6	25.54
	848.8	31.04	-6	25.04
GPRS 850 (3 Slot)	824.2	29.71	-4.26	25.45
	836.6	30.01	-4.26	25.75
	848.8	29.72	-4.26	25.46
GPRS 850 (4 Slot)	824.2	28.22	-3	25.22
	836.6	28.65	-3	25.65
	848.8	28.26	-3	25.26

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GSM BAND CONTINUE

Mode	Frequency(MHz)	Avg. Burst Power(dBm)	Duty cycle Factor(dBm)	Frame Power(dBm)
Maximum Power <1>				
GPRS1900 (1 Slot)	1850.2	29.80	-9	20.80
	1880	30.07	-9	21.07
	1909.8	29.99	-9	20.99
GPRS1900 (2 Slot)	1850.2	29.19	-6	23.19
	1880	29.47	-6	23.47
	1909.8	29.41	-6	23.41
GPRS1900 (3 Slot)	1850.2	27.58	-4.26	23.32
	1880	27.87	-4.26	23.61
	1909.8	27.81	-4.26	23.55
GPRS1900 (4 Slot)	1850.2	26.46	-3	23.46
	1880	26.77	-3	23.77
	1909.8	26.71	-3	23.71
EGPRS1900 (1 Slot)	1850.2	27.31	-9	18.31
	1880	26.69	-9	17.69
	1909.8	26.48	-9	17.48
EGPRS1900 (2 Slot)	1850.2	26.49	-6	20.49
	1880	25.91	-6	19.91
	1909.8	25.65	-6	19.65
EGPRS1900 (3 Slot)	1850.2	24.59	-4.26	20.33
	1880	24.03	-4.26	19.77
	1909.8	23.73	-4.26	19.47
EGPRS1900 (4 Slot)	1850.2	23.47	-3	20.47
	1880	22.86	-3	19.86
	1909.8	22.62	-3	19.62

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Mode	Frequency(MHz)	Avg. Burst Power(dBm)	Duty cycle Factor(dBm)	Frame Power(dBm)
Maximum Power <2>				
GPRS1900 (1 Slot)	1850.2	29.19	-9	20.19
	1880	29.60	-9	20.60
	1909.8	29.55	-9	20.55
GPRS1900 (2 Slot)	1850.2	28.41	-6	22.41
	1880	28.62	-6	22.62
	1909.8	28.49	-6	22.49
GPRS1900 (3 Slot)	1850.2	26.99	-4.26	22.73
	1880	27.75	-4.26	23.49
	1909.8	27.72	-4.26	23.46
GPRS1900 (4 Slot)	1850.2	25.51	-3	22.51
	1880	26.72	-3	23.72
	1909.8	26.59	-3	23.59

Note 1:

The Frame Power (Source-based time-averaged Power) is scaled the maximum burst average power based on time slots. The calculated methods are show as following:

Frame Power = Max burst power (1 Up Slot) – 9 dB

Frame Power = Max burst power (2 Up Slot) – 6 dB

Frame Power = Max burst power (3 Up Slot) – 4.26 dB

Frame Power = Max burst power (4 Up Slot) – 3 dB

LTE Band

LTE (TDD) Considerations

For Time-Division Duplex (TDD) systems, SAR must be tested using a fixed periodic duty factor according to the highest transmission duty factor implemented for the device and supported by the defined 3GPP LTE TDD configurations.

SAR was tested with the highest transmission duty factor (63.33%) using Uplink-downlink configuration 0 and Special subframe configuration 7.

LTE TDD Band 38, 40, 41 supports 3GPP TS 36.211 section 4.2 for Type 2 Frame Structure and Table 4.2-2 for uplink-downlink configurations and Table 4.2-1 for Special subframe configurations.

Table 4.2-1: Configuration of special subframe (lengths of DwPTS/GP/UpPTS)

Special subframe configuration	Normal cyclic prefix in downlink			Extended cyclic prefix in downlink		
	DwPTS	UpPTS		DwPTS	UpPTS	
		Normal cyclic prefix in uplink	Extended cyclic prefix in uplink		Normal cyclic prefix in uplink	Extended cyclic prefix in uplink
0	$6592 \cdot T_s$	$2192 \cdot T_s$	$2560 \cdot T_s$	$7680 \cdot T_s$	$2192 \cdot T_s$	$2560 \cdot T_s$
1	$19760 \cdot T_s$			$20480 \cdot T_s$		
2	$21952 \cdot T_s$			$23040 \cdot T_s$		
3	$24144 \cdot T_s$			$25600 \cdot T_s$		
4	$26336 \cdot T_s$	$4384 \cdot T_s$	$5120 \cdot T_s$	$7680 \cdot T_s$	$4384 \cdot T_s$	$5120 \cdot T_s$
5	$6592 \cdot T_s$			$20480 \cdot T_s$		
6	$19760 \cdot T_s$			$23040 \cdot T_s$		
7	$21952 \cdot T_s$			$12800 \cdot T_s$		
8	$24144 \cdot T_s$			-	-	-
9	$13168 \cdot T_s$			-	-	-

Table 4.2-2: Uplink-downlink configurations

Uplink-downlink configuration	Downlink-to-Uplink Switch-point periodicity	Subframe number									
		0	1	2	3	4	5	6	7	8	9
0	5 ms	D	S	U	U	U	D	S	U	U	U
1	5 ms	D	S	U	U	D	D	S	U	U	D
2	5 ms	D	S	U	D	D	D	S	U	D	D
3	10 ms	D	S	U	U	U	D	D	D	D	D
4	10 ms	D	S	U	U	D	D	D	D	D	D
5	10 ms	D	S	U	D	D	D	D	D	D	D
6	5 ms	D	S	U	U	U	D	S	U	U	D

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Calculated Duty Cycle

Uplink-Downlink Configuration	Downlink-to-Uplink Switch-point Periodicity	Subframe Number										Calculated Duty Cycle(%)
		0	1	2	3	4	5	6	7	8	9	
0	5ms	D	S	U	U	U	D	S	U	U	U	63.33
1	5ms	D	S	U	U	D	D	S	U	U	D	43.33
2	5ms	D	S	U	D	D	D	S	U	D	D	23.33
3	10ms	D	S	U	U	U	D	D	D	D	D	31.67
4	10ms	D	S	U	U	D	D	D	D	D	D	21.67
5	10ms	D	S	U	D	D	D	D	D	D	D	11.67
6	5ms	D	S	U	U	U	D	S	U	U	D	53.33

Note: Calculated Duty Cycle = Extended cyclic prefix in uplink x (Ts) x # of S + # of U

Example for Calculated Duty Cycle for Uplink-Downlink Configuration 0:

Calculated Duty Cycle = $5120 \times [1/(15000 \times 2048)] \times 2 + 6 \text{ ms} = 63.33\%$

where

$T_s = 1/(15000 \times 2048)$ seconds

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LTE Band

Conducted Power of LTE Band 2(dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					18607	18900	19193
1.4MHz	QPSK	1	0	0	23.84	23.77	23.96
			3	0	23.93	23.98	24.16
			5	0	23.83	23.79	23.96
		3	0	0	23.70	23.85	23.98
			2	0	23.71	23.84	24.05
			3	0	23.70	23.86	23.97
		6	0	1	22.84	22.85	23.05
	16QAM	1	0	1	22.43	22.52	22.79
			3	1	22.79	22.84	23.09
			5	1	22.39	22.45	22.78
		3	0	1	22.44	22.62	22.76
			2	1	22.50	22.70	22.94
			3	1	22.48	22.56	22.74
		6	0	2	21.53	21.76	21.96
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					18615	18900	19185
3MHz	QPSK	1	0	0	23.29	23.33	23.50
			7	0	23.36	23.36	23.51
			14	0	23.27	23.41	23.44
		8	0	1	22.25	22.34	22.52
			4	1	22.32	22.34	22.49
			7	1	22.27	22.30	22.46
		15	0	1	22.19	22.28	22.44
	16QAM	1	0	1	22.18	22.17	22.14
			7	1	22.08	22.43	22.38
			14	1	22.20	22.13	22.22
		8	0	2	21.17	21.21	21.44
			4	2	21.27	21.21	21.35
			7	2	21.14	21.22	21.41
		15	0	2	21.15	21.16	21.29

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Conducted Power of LTE Band 2(dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					18625	18900	19175
5MHz	QPSK	1	0	0	23.19	23.20	23.36
			13	0	23.42	23.49	23.57
			24	0	22.52	23.29	23.37
		12	0	1	21.30	22.31	22.37
			6	1	22.19	22.31	22.46
			13	1	22.14	22.29	22.34
		25	0	1	22.19	22.24	22.38
	16QAM	1	0	1	21.98	22.26	22.19
			13	1	21.56	22.38	22.51
			24	1	21.31	22.27	22.16
		12	0	2	21.09	21.27	21.36
			6	2	21.15	21.36	21.35
			13	2	21.09	21.31	21.39
		25	0	2	21.06	21.21	21.34
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					18650	18900	19150
10MHz	QPSK	1	0	0	23.24	23.28	23.37
			25	0	23.44	23.46	23.60
			49	0	23.21	23.34	23.37
		25	0	1	22.21	22.28	22.54
			13	1	22.22	22.30	22.45
			25	1	22.22	22.38	22.44
		50	0	1	22.19	22.30	22.41
	16QAM	1	0	1	22.05	22.11	22.09
			25	1	22.18	22.49	22.42
			49	1	22.13	22.08	22.14
		25	0	2	21.13	21.26	21.50
			13	2	21.09	21.30	21.38
			25	2	21.14	21.35	21.40
		50	0	2	21.11	21.24	21.35

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Conducted Power of LTE Band 2(dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					18675	18900	19125
15MHz	QPSK	1	0	0	23.18	23.09	23.28
			38	0	23.32	23.40	23.46
			74	0	23.10	23.17	23.31
		36	0	1	22.34	22.38	22.51
			18	1	22.35	22.36	22.58
			39	1	22.35	22.37	22.53
		75	0	1	22.35	22.34	22.56
	16QAM	1	0	1	22.00	22.19	22.02
			38	1	22.08	22.29	22.29
			74	1	22.09	22.22	22.01
		36	0	2	22.35	22.37	22.53
			18	2	21.21	21.31	21.42
			39	2	22.34	22.40	22.56
		75	0	2	21.17	21.32	21.46
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					18700	18900	19100
20MHz	QPSK	1	0	0	23.04	22.97	22.93
			50	0	23.29	23.39	23.43
			99	0	23.00	22.98	22.96
		50	0	1	22.15	22.13	22.30
			25	1	22.19	22.20	22.23
			50	1	22.18	22.23	22.10
		100	0	1	22.18	22.19	22.24
	16QAM	1	0	1	21.74	22.00	21.69
			50	1	22.30	22.47	22.22
			99	1	21.88	22.03	21.72
		50	0	2	21.11	21.08	21.30
			25	2	21.15	21.19	21.19
			50	2	21.15	21.22	21.16
		100	0	2	21.11	21.09	21.16

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Conducted Power of LTE Band 4(dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					19957	20175	20393
1.4MHz	QPSK	1	0	0	21.70	22.58	22.70
			3	0	21.92	22.76	22.87
			5	0	21.67	22.59	22.71
		3	0	0	21.77	22.58	22.75
			2	0	21.81	22.59	22.81
			3	0	21.78	22.64	22.79
		6	0	1	20.74	21.58	21.75
	16QAM	1	0	1	20.55	21.34	21.45
			3	1	20.85	21.81	21.81
			5	1	20.60	21.37	21.41
		3	0	1	20.56	21.44	21.53
			2	1	20.67	21.52	21.68
			3	1	20.57	21.46	21.53
		6	0	2	19.75	20.36	20.66
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					19965	20175	20385
3MHz	QPSK	1	0	0	21.70	22.51	22.73
			7	0	21.83	22.56	22.77
			14	0	21.83	22.60	22.74
		8	0	1	20.68	21.51	21.77
			4	1	20.74	21.51	21.75
			7	1	20.75	21.53	21.75
		15	0	1	20.72	21.43	21.74
	16QAM	1	0	1	20.66	21.35	21.42
			7	1	20.68	21.64	21.65
			14	1	20.75	21.36	21.47
		8	0	2	19.70	20.43	20.67
			4	2	19.79	20.44	20.63
			7	2	19.77	20.47	20.66
		15	0	2	19.73	20.39	20.56

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Conducted Power of LTE Band 4(dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					19975	20175	20375
5MHz	QPSK	1	0	0	21.82	22.53	22.73
			13	0	22.37	23.02	23.11
			24	0	21.98	22.60	22.79
		12	0	1	20.83	21.64	21.76
			6	1	20.94	21.67	21.84
			13	1	20.97	21.60	21.71
		25	0	1	20.90	21.62	21.78
	16QAM	1	0	1	20.72	21.56	21.56
			13	1	21.05	21.98	22.04
			24	1	20.89	21.67	21.60
		12	0	2	19.86	20.63	20.80
			6	2	20.01	20.73	20.75
			13	2	19.98	20.69	20.68
		25	0	2	19.97	20.57	20.74
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					20000	20175	20350
10MHz	QPSK	1	0	0	21.82	22.46	22.67
			25	0	22.16	22.81	22.87
			49	0	22.18	22.74	22.82
		25	0	1	20.89	21.63	21.76
			13	1	20.98	21.59	21.74
			25	1	21.14	21.66	21.73
		50	0	1	20.95	21.60	21.70
	16QAM	1	0	1	20.83	21.32	21.37
			25	1	21.08	21.87	21.76
			49	1	21.20	21.47	21.52
		25	0	2	19.88	20.60	20.74
			13	2	19.98	20.57	20.66
			25	2	20.19	20.66	20.72
		50	0	2	20.02	20.61	20.69

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Conducted Power of LTE Band 4(dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					20025	20175	20325
15MHz	QPSK	1	0	0	21.75	22.24	22.63
			38	0	22.16	22.78	22.77
			74	0	22.28	22.49	22.74
		36	0	1	21.13	21.68	21.84
			18	1	21.16	21.69	21.84
			39	1	21.14	21.70	21.80
		75	0	1	21.16	21.70	21.85
	16QAM	1	0	1	20.70	21.31	21.28
			38	1	21.01	21.72	21.67
			74	1	21.25	21.59	21.41
		36	0	2	21.11	21.67	21.83
			18	2	20.20	20.68	20.73
			39	2	21.16	21.68	21.83
		75	0	2	20.09	20.63	20.73
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					20050	20175	20300
20MHz	QPSK	1	0	0	21.59	22.05	22.31
			50	0	22.28	22.82	22.89
			99	0	22.32	22.44	22.49
		50	0	1	20.92	21.52	21.64
			25	1	21.15	21.63	21.69
			50	1	21.32	21.64	21.65
		100	0	1	21.07	21.58	21.58
	16QAM	1	0	1	20.45	21.15	21.12
			50	1	21.29	21.91	21.70
			99	1	21.16	21.53	21.28
		50	0	2	19.95	20.53	20.60
			25	2	20.16	20.62	20.64
			50	2	20.36	20.61	20.70
		100	0	2	20.07	20.48	20.57

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Conducted Power of LTE Band 5(dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					20407	20525	20643
1.4MHz	QPSK	1	0	0	22.89	22.87	22.75
			3	0	23.10	23.02	22.94
			5	0	22.82	22.91	22.74
		3	0	0	22.96	22.94	22.84
			2	0	23.00	22.96	22.92
			3	0	22.95	22.94	22.86
		6	0	1	21.94	21.87	21.84
	16QAM	1	0	1	21.77	21.77	21.64
			3	1	22.09	22.23	21.94
			5	1	21.81	21.74	21.61
		3	0	1	21.78	21.86	21.63
			2	1	21.91	21.96	21.82
			3	1	21.76	21.85	21.62
		6	0	2	20.91	20.75	20.85
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					20415	20525	20635
3MHz	QPSK	1	0	0	22.90	22.88	22.73
			7	0	22.83	22.88	22.83
			14	0	22.91	22.90	22.76
		8	0	1	21.84	21.92	21.74
			4	1	21.95	21.90	21.79
			7	1	21.88	21.86	21.79
		15	0	1	21.85	21.89	21.76
	16QAM	1	0	1	21.87	21.82	21.75
			7	1	21.83	22.02	21.73
			14	1	21.83	21.75	21.78
		8	0	2	20.91	20.82	20.77
			4	2	20.92	20.80	20.85
			7	2	20.91	20.83	20.76
		15	0	2	20.91	20.75	20.82

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Conducted Power of LTE Band 5(dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					20425	20525	20625
5MHz	QPSK	1	0	0	22.86	22.74	22.82
			13	0	23.14	23.20	22.95
			24	0	22.79	22.75	22.78
		12	0	1	21.88	21.94	21.68
			6	1	21.84	21.94	21.83
			13	1	21.89	21.86	21.81
		25	0	1	21.89	21.93	21.78
	16QAM	1	0	1	21.75	21.89	21.70
			13	1	21.98	22.28	21.93
			24	1	21.77	21.86	21.68
		12	0	2	20.88	20.99	20.70
			6	2	20.98	21.01	20.87
			13	2	20.91	20.91	20.82
		25	0	2	20.93	20.88	20.80
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					20450	20525	20600
10MHz	QPSK	1	0	0	22.87	22.85	22.87
			25	0	23.05	23.04	23.00
			49	0	22.91	22.92	22.81
		25	0	1	21.91	22.04	21.91
			13	1	21.91	21.94	21.88
			25	1	22.04	21.90	21.94
		50	0	1	21.94	22.02	21.86
	16QAM	1	0	1	21.85	21.79	21.86
			25	1	22.00	22.19	21.92
			49	1	21.93	21.73	21.82
		25	0	2	20.98	21.07	20.95
			13	2	21.01	20.99	20.93
			25	2	21.01	20.98	20.94
		50	0	2	20.98	20.95	20.94

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Conducted Power of LTE Band 7 (dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					20775	21100	21425
5MHz	QPSK	1	0	0	22.80	22.79	22.84
			12	0	23.02	23.12	22.84
			24	0	22.76	22.83	22.81
		12	0	1	21.78	21.78	21.77
			6	1	21.85	21.89	21.83
			13	1	21.81	21.86	21.77
		25	0	1	21.87	21.89	21.82
	16QAM	1	0	1	21.70	21.78	21.61
			12	1	22.01	22.26	21.98
			24	1	21.66	21.79	21.52
		12	0	2	20.75	20.86	20.86
			6	2	20.84	21.01	20.84
			13	2	20.77	20.98	20.82
		25	0	2	20.80	20.85	20.88
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					20800	21100	21400
10MHz	QPSK	1	0	0	22.94	22.96	22.86
			24	0	23.07	23.10	23.12
			49	0	22.85	22.97	22.87
		25	0	1	21.93	21.91	21.93
			12	1	21.89	21.93	21.94
			25	1	21.96	22.06	22.01
		50	0	1	21.84	21.96	21.95
	16QAM	1	0	1	21.92	21.70	21.55
			24	1	21.90	22.10	21.93
			49	1	21.86	21.73	21.55
		25	0	2	20.80	20.94	20.93
			12	2	20.85	21.00	20.97
			25	2	20.82	21.10	20.99
		50	0	2	20.83	21.05	20.95

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Conducted Power of LTE Band 7 (dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					20825	21100	21375
15MHz	QPSK	1	0	0	22.84	22.81	22.80
			37	0	22.92	23.09	23.00
			74	0	22.78	22.78	22.78
		37	0	1	21.95	22.06	22.09
			16	1	21.98	22.01	22.02
			35	1	21.97	22.08	22.09
		75	0	1	21.96	22.06	22.08
	16QAM	1	0	1	21.78	21.88	21.47
			37	1	21.77	21.97	21.86
			74	1	21.78	21.84	21.48
		37	0	2	21.99	22.04	22.07
			16	2	20.92	21.07	20.96
			35	2	21.97	22.07	22.09
		75	0	2	20.77	21.06	21.03
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					20850	21100	21350
20MHz	QPSK	1	0	0	22.70	22.75	22.56
			49	0	22.98	23.21	23.12
			99	0	22.70	22.68	22.61
		50	0	1	21.82	21.84	21.99
			25	1	21.92	21.95	21.92
			49	1	21.70	22.10	21.99
		100	0	1	21.80	21.97	21.95
	16QAM	1	0	1	21.56	21.75	21.33
			49	1	21.98	22.19	21.85
			99	1	21.51	21.72	21.36
		50	0	2	20.82	20.83	21.06
			25	2	20.84	21.03	20.97
			49	2	20.64	21.11	21.07
		100	0	2	20.70	21.02	20.93

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Conducted Power of LTE Band 12(dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					23017	23095	23173
1.4MHz	QPSK	1	0	0	23.37	23.46	23.36
			3	0	23.54	23.61	23.51
			5	0	23.45	23.41	23.38
		3	0	0	23.39	23.55	23.21
			2	0	23.49	23.57	23.31
			3	0	23.46	23.53	23.16
		6	0	1	22.45	22.47	22.36
	16QAM	1	0	1	22.17	22.13	21.97
			3	1	22.61	22.47	22.29
			5	1	22.23	22.10	21.95
		3	0	1	22.28	22.28	22.01
			2	1	22.37	22.45	22.12
			3	1	22.35	22.23	21.92
		6	0	2	21.28	21.39	21.19
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					23025	23095	23165
3MHz	QPSK	1	0	0	23.29	23.49	23.35
			7	0	23.47	23.50	23.37
			14	0	23.43	23.50	23.38
		8	0	1	22.47	22.44	22.35
			4	1	22.55	22.48	22.40
			7	1	22.49	22.43	22.43
		15	0	1	22.33	22.42	22.29
	16QAM	1	0	1	22.34	22.25	22.00
			7	1	22.35	22.50	22.22
			14	1	22.44	22.25	21.99
		8	0	2	21.40	21.39	21.29
			4	2	21.46	21.38	21.14
			7	2	21.45	21.38	21.34
		15	0	2	21.33	21.31	21.17

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Conducted Power of LTE Band 12(dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					23035	23095	23155
5MHz	QPSK	1	0	0	23.28	23.42	23.31
			13	0	23.40	23.58	23.52
			24	0	23.49	23.41	23.39
		12	0	1	22.40	22.43	22.31
			6	1	22.49	22.48	22.41
			13	1	22.46	22.37	22.26
		25	0	1	22.44	22.41	22.30
	16QAM	1	0	1	22.26	22.38	22.20
			13	1	22.49	22.63	22.55
			24	1	22.37	22.43	22.05
		12	0	2	21.35	21.48	21.36
			6	2	21.43	21.57	21.33
			13	2	21.46	21.44	21.28
		25	0	2	21.45	21.40	21.32
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					23060	23095	23130
10MHz	QPSK	1	0	0	23.33	23.50	23.41
			25	0	23.76	23.68	23.58
			49	0	23.49	23.45	23.37
		25	0	1	22.50	22.52	22.53
			13	1	22.56	22.50	22.44
			25	1	22.54	22.41	22.38
		50	0	1	22.44	22.46	22.43
	16QAM	1	0	1	22.37	22.24	22.13
			25	1	22.57	22.70	22.44
			49	1	22.43	22.13	22.01
		25	0	2	21.42	21.53	21.50
			13	2	21.54	21.50	21.40
			25	2	21.47	21.45	21.37
		50	0	2	21.44	21.42	21.44

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Conducted Power of LTE Band 17(dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					23755	23790	23825
5MHz	QPSK	1	0	0	23.41	23.30	23.37
			13	0	23.73	23.79	23.60
			24	0	23.45	23.29	23.40
		12	0	1	22.39	22.44	22.34
			6	1	22.47	22.46	22.41
			13	1	22.37	22.33	22.25
		25	0	1	22.36	22.41	22.32
	16QAM	1	0	1	22.26	22.33	22.16
			13	1	22.75	22.61	22.54
			24	1	22.29	22.31	22.06
		12	0	2	21.41	21.48	21.31
			6	2	21.52	21.47	21.34
			13	2	21.40	21.43	21.27
		25	0	2	21.41	21.39	21.33
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					23780	23790	23800
10MHz	QPSK	1	0	0	23.45	23.49	23.44
			25	0	23.69	23.60	23.60
			49	0	23.39	23.47	23.40
		25	0	1	22.60	22.59	22.62
			13	1	22.54	22.49	22.43
			25	1	22.47	22.44	22.45
		50	0	1	22.52	22.49	22.48
	16QAM	1	0	1	22.42	22.24	22.13
			25	1	22.56	22.62	22.49
			49	1	22.32	22.15	22.02
		25	0	2	21.50	21.57	21.55
			13	2	21.50	21.45	21.49
			25	2	21.43	21.43	21.42
		50	0	2	21.40	21.48	21.48

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Conducted Power of LTE Band 38 (dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					37775	38000	38225
5MHz	QPSK	1	0	0	23.09	22.72	22.49
			12	0	23.31	23.04	22.80
			24	0	23.01	22.73	22.49
		12	0	1	22.07	21.73	21.54
			6	1	22.06	21.82	21.60
			13	1	21.96	21.75	21.59
		25	0	1	22.03	21.78	21.57
	16QAM	1	0	1	22.01	22.00	21.57
			12	1	22.19	22.34	21.82
			24	1	21.96	21.96	21.61
		12	0	2	20.99	20.75	20.64
			6	2	21.00	20.81	20.66
			13	2	20.99	20.76	20.60
		25	0	2	21.01	20.82	20.62
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					37800	38000	38200
10MHz	QPSK	1	0	0	23.02	22.80	22.60
			24	0	23.10	22.89	22.72
			49	0	22.95	22.73	22.61
		25	0	1	22.02	21.77	21.56
			12	1	21.96	21.79	21.54
			25	1	21.99	21.79	21.64
		50	0	1	22.01	21.74	21.56
	16QAM	1	0	1	22.13	21.41	21.47
			24	1	22.18	21.46	21.56
			49	1	22.07	21.34	21.45
		25	0	2	21.12	20.76	20.57
			12	2	21.01	20.80	20.58
			25	2	21.06	20.81	20.68
		50	0	2	21.01	20.79	20.57

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Conducted Power of LTE Band 38 (dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					37825	38000	38175
15MHz	QPSK	1	0	0	22.91	22.87	22.68
			38	0	22.89	22.75	22.61
			74	0	22.64	22.63	22.44
		37	0	1	21.90	21.81	21.66
			18	1	21.89	21.76	21.60
			37	1	21.90	21.76	21.60
		75	0	1	21.92	21.77	21.61
	16QAM	1	0	1	22.02	21.57	21.54
			38	1	21.94	21.55	21.43
			74	1	21.76	21.38	21.32
		37	0	2	21.91	21.79	21.61
			18	2	20.88	20.72	20.69
			37	2	21.91	21.78	21.63
		75	0	2	20.93	20.80	20.60
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					37850	38000	38150
20MHz	QPSK	1	0	0	22.82	22.67	22.68
			49	0	23.16	23.08	22.95
			99	0	22.56	22.46	22.50
		50	0	1	21.96	21.89	21.75
			25	1	21.93	21.88	21.80
			49	1	21.84	21.89	21.76
		100	0	1	21.92	21.88	21.75
	16QAM	1	0	1	21.81	21.22	21.30
			49	1	22.05	21.92	21.89
			99	1	21.54	20.98	21.08
		50	0	2	21.02	20.95	20.75
			25	2	21.00	20.96	20.80
			49	2	20.86	20.96	20.77
		100	0	2	20.93	20.91	20.81

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Avg. Output Power of LTE Band 40(dBm) -Lower Side						
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				38725	38750	38775
5MHz	QPSK	1	0	21.79	22.02	21.70
			12	20.95	21.97	22.04
			24	21.59	21.89	22.04
		12	0	19.27	19.60	19.65
			6	19.72	19.37	19.21
			13	19.47	20.08	20.61
		25	0	20.11	18.86	19.98
	16QAM	1	0	21.48	21.13	21.51
			12	21.12	21.78	21.53
			24	21.65	21.51	22.65
		12	0	19.04	19.28	18.56
			6	19.79	19.81	19.49
			13	19.47	19.91	19.70
		25	0	19.24	20.50	19.29
Bandwidth	Modulation	RB size	RB offset	Channel		
				38750		
10MHz	QPSK	1	0	21.81		
			24	22.17		
			49	22.33		
		25	0	19.58		
			12	19.52		
			25	19.91		
		50	0	17.92		
	16QAM	1	0	21.07		
			24	21.15		
			49	21.54		
		25	0	19.67		
			12	19.37		
			25	18.15		
		50	0	16.28		

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Avg. Output Power of LTE Band 40(dBm) -Upper Side						
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				39175	39200	39225
5MHz	QPSK	1	0	22.00	20.52	21.39
			12	21.90	22.11	21.19
			24	21.90	21.66	21.68
		12	0	19.93	19.97	19.21
			6	19.21	20.84	20.02
			13	20.35	20.01	18.95
		25	0	19.66	19.84	18.94
	16QAM	1	0	21.52	20.83	22.05
			12	20.09	21.27	20.93
			24	21.16	21.60	21.74
		12	0	19.55	18.53	18.69
			6	20.13	20.13	20.12
			13	20.29	20.39	20.09
		25	0	19.48	19.78	17.97
Bandwidth	Modulation	RB size	RB offset	Channel		
				39200		
10MHz	QPSK	1	0	21.69		
			24	22.49		
			49	22.17		
		25	0	19.10		
			12	19.96		
			25	18.91		
		50	0	18.04		
	16QAM	1	0	20.94		
			24	21.29		
			49	21.83		
		25	0	19.30		
			12	18.30		
			25	18.29		
		50	0	17.18		

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Conducted Power of LTE Band 41(dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					39675	40620	41565
5MHz	QPSK	1	0	0	22.82	22.74	22.93
			12	0	23.20	23.05	23.25
			24	0	22.82	22.70	22.95
		12	0	1	21.94	21.79	21.90
			6	1	21.96	21.88	22.01
			13	1	21.89	21.88	21.98
		25	0	1	21.95	21.86	21.97
	16QAM	1	0	1	22.09	21.85	22.09
			12	1	22.47	22.10	22.44
			24	1	22.13	21.82	22.12
		12	0	2	20.95	20.88	20.99
			6	2	21.03	20.87	21.04
			13	2	20.93	20.89	20.98
		25	0	2	20.96	20.88	20.98
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					39700	40620	41540
10MHz	QPSK	1	0	0	22.97	22.86	22.74
			24	0	23.11	22.94	22.94
			49	0	22.87	22.75	22.73
		25	0	1	22.01	21.84	21.81
			12	1	21.96	21.83	21.78
			25	1	21.90	21.90	21.83
		50	0	1	21.95	21.87	21.82
	16QAM	1	0	1	22.10	21.33	21.60
			24	1	22.19	21.52	21.70
			49	1	22.05	21.37	21.60
		25	0	2	21.09	20.82	20.82
			12	2	20.99	20.91	20.81
			25	2	20.97	20.91	20.88
		50	0	2	21.01	20.90	20.84

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Conducted Power of LTE Band 41(dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					39725	40620	41515
15MHz	QPSK	1	0	0	22.99	22.94	22.75
			37	0	23.02	22.83	22.80
			74	0	22.83	22.72	22.70
		37	0	1	22.03	21.88	21.91
			19	1	22.04	21.85	21.87
			38	1	22.06	21.89	21.91
		75	0	1	22.03	21.89	21.91
	16QAM	1	0	1	22.08	21.67	21.62
			37	1	22.13	21.63	21.60
			74	1	21.97	21.41	21.51
		37	0	2	22.03	21.88	21.91
			19	2	21.07	20.82	20.88
			38	2	22.04	21.89	21.91
		75	0	2	21.05	20.91	20.87
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					39750	40620	41490
20MHz	QPSK	1	0	0	22.75	22.66	22.65
			49	0	23.23	23.02	22.92
			99	0	22.66	22.39	22.61
		50	0	1	22.06	21.84	21.85
			25	1	22.01	21.86	21.79
			50	1	21.83	21.89	21.77
		100	0	1	21.97	21.83	21.83
	16QAM	1	0	1	21.79	21.20	21.24
			49	1	22.17	21.88	21.86
			99	1	21.67	20.92	21.11
		50	0	2	21.13	20.90	20.88
			25	2	21.08	20.95	20.84
			50	2	20.91	20.98	20.79
		100	0	2	20.97	20.87	20.88

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The following tests were conducted according to the test requirements outlined in section 6.2 of the 3GPP TS36.101 specification.

UE Power Class: 3 (23 +/- 2dBm). The allowed Maximum Power Reduction (MPR) for the maximum output power due to higher order modulation and transmit bandwidth configuration (resource blocks) is specified in Table 6.2.3.3-1 of the 3GPP TS36.101.

Table 6.2.3.3-1 Maximum Power Reduction (MPR) for Power class3

Modulation	Maximum Power Reduction (MPR) for Power[RB]						MPR(dB)
	1.4MHz	3MHz	5MHz	10MHz	15MHz	20MHz	
QPSK	> 5	> 4	> 8	> 12	> 16	> 18	≤1
16QAM	≤5	≤4	≤8	≤12	≤16	≤18	≤1
16QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤2

The allowed A-MPR values specified below in Table 6.2.4.3-1 of 3GPP TS36.101 are in addition to the allowed MPR requirements. All the measurements below were performed with A-MPR disabled, by using Network Signaling Value of "NS_01".3

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Table 6.2.4.3-1: Additional Maximum Power Reduction (A-MPR) / Spectrum Emission requirements

Network Signaling value	Requirements (sub-clause)	E-UTRA Band	Channel bandwidth (MHz)	Resources Blocks (N_{RB})	A-MPR (dB)
NS_01	6.6.2.1.1	Table 5.2-1	1.4,3,5,10,15,20	Table 5.4.2-1	N/A
NS_03	6.6.2.2.3.1	2,4,10, 23, 25,35,36	3	>5	≤ 1
			5	>6	≤ 1
			10	>6	≤ 1
			15	>8	≤ 1
			20	>10	≤ 1
NS_04	6.6.2.2.3.2	41	5	>6	≤ 1
			10, 15, 20	Table 6.2.4.3-4	
NS_05	6.6.3.3.3.1	1	10,15,20	≥ 50	≤ 1
NS_06	6.6.2.2.3.3	12, 13, 14, 17	1.4, 3, 5, 10	Table 5.4.2-1	N/A
NS_07	6.6.2.2.3.3 6.6.3.3.3.2	13	10	Table 6.2.4.3-2	Table 6.2.4.3-2
NS_08	6.6.3.3.3.3	19	10, 15	> 44	≤ 3
NS_09	6.6.3.3.3.4	21	10, 15	> 40	≤ 1
				> 55	≤ 2
NS_10		20	15, 20	Table 6.2.4.3-3	Table 6.2.4.3-3
NS_11	6.6.2.2.1 6.6.3.3.13	231	1.4, 3, 5, 10,15,20	Table 6.2.4.3-5	Table 6.2.4.3-5
NS_12	6.6.3.3.5	26	1.4, 3, 5	Table 6.2.4.3-6	Table 6.2.4.3-6
NS_13	6.6.3.3.6	26	5	Table 6.2.4.3-7	Table 6.2.4.3-7
NS_14	6.6.3.3.7	26	10, 15	Table 6.2.4.3-8	Table 6.2.4.3-8
NS_15	6.6.3.3.8	26	1.4, 3, 5, 10, 15	Table 6.2.4.3-9 Table 6.2.4.3-10	Table 6.2.4.3-9, Table 6.2.4.3-10
NS_16	6.6.3.3.9	27	3, 5, 10	Table 6.2.4.3-11, Table 6.2.4.3-12, Table 6.2.4.3-13	
NS_17	6.6.3.3.10 6.6.3.3.11	28 28	5, 10	Table 5.4.2-1	N/A
			5	≥ 2	≤ 1
NS_18			10, 15, 20	≥ 1	≤ 4
NS_19			10, 15, 20	Table 6.2.4.3-15	Table 6.2.4.3-15
NS_20			5, 10, 15, 20	Table 6.2.4.3-14	Table 6.2.4.3-14
...					
NS_20	-	-	-	-	-

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WIFI

Mode	Data Rate (Mbps)	Channel	Frequency(MHz)	Avg. Burst Power(dBm)
802.11b	1	01	2412	13.10
		06	2437	12.31
		11	2462	12.14
802.11g	6	01	2412	11.37
		06	2437	12.39
		11	2462	11.95
802.11n(20)	6.5	01	2412	11.31
		06	2437	11.44
		11	2462	11.13

Bluetooth_BR/EDR

Modulation	Channel	Frequency(MHz)	Peak Power (dBm)
GFSK	0	2402	6.708
	39	2441	2.516
	78	2480	0.254
$\pi/4$ -DQPSK	0	2402	6.004
	39	2441	1.878
	78	2480	-0.433
8-DPSK	0	2402	6.179
	39	2441	1.931
	78	2480	-0.357

Bluetooth_BLE

Modulation	Channel	Frequency(MHz)	Peak Power (dBm)
GFSK	0	2402	6.496
	19	2440	2.236
	39	2480	0.321

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5GHz WIFI

Mode	channel	Frequency	Avg. Burst Power (dBm)							
			Data Rate(bps)							
			6M	9M	12M	18M	24M	36M	48M	54M
802.11a	149	5745	8.20	8.00	7.95	7.77	7.59	7.43	7.38	7.20
	157	5785	8.33	8.31	8.21	8.12	8.05	7.92	7.73	7.58
	165	5825	8.17	8.12	8.01	7.96	7.83	7.76	7.73	7.72
			MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
802.11n (20)	149	5745	7.96	7.85	7.80	7.66	7.58	7.44	7.30	7.21
	157	5785	8.25	8.18	8.15	8.06	7.97	7.91	7.79	7.76
	165	5825	8.15	7.95	7.77	7.62	7.45	7.29	7.17	7.00

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13. TEST RESULTS

13.1. SAR Test Results Summary

13.1.1. Test position and configuration

Face up SAR was performed with the device configured in the positions according to KDB 643646 and Body SAR was performed with the device configured with all accessories close to the Flat Phantom.

13.1.2. Operation Mode

1. Per KDB 447498 D01 v06 ,for each exposure position, if the highest 1-g SAR is ≤ 0.8 W/kg, testing for low and high channel is optional.
2. Per KDB 865664 D01 v01r04,for each frequency band, if the measured SAR is ≥ 0.8 W/kg, testing for repeated SAR measurement is required , that the highest measured SAR is only to be tested. When the SAR results are near the limit, the following procedures are required for each device to verify these types of SAR measurement related variation concerns by repeating the highest measured SAR configuration in each frequency band.
 - (1) When the original highest measured SAR is ≥ 0.8 W/kg, repeat that measurement once.
 - (2) Perform a second repeated measurement only if the ratio of largest to smallest SAR for the original and first repeated measurements is >1.20 or when the original or repeated measurement is ≥ 1.45 W/kg.
 - (3) Perform a third repeated measurement only if the original, first and second repeated measurement is ≥ 1.5 W/kg and ratio of largest to smallest SAR for the original, first and second measurement is ≥ 1.20 .
3. Body-worn exposure conditions are intended to voice call operations, therefore GSM voice call mode is selected to be test.
4. Per KDB 248227 D01v02r02,for 2.4GHz 802.11g/n SAR testing is not required when the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg.
5. Per KDB 248227 D01 v02r02 Chapter 5.3.4, SAR measurement requirements for the remaining 802.11 transmission mode configurations that have not been tested in the initial test configuration are determined separately for each standalone and aggregated frequency band, in each exposure condition, according to the maximum output power specified for production units. The initial test position procedure is applied to next to the ear, UMPC mini-tablet and hotspot mode configurations. When the same maximum output power is specified for multiple transmission modes, the procedures in 5.3.2 are applied to determine the test configuration. Additional power measurements may be required to determine if SAR measurements are required for subsequent highest output power channels in a subsequent test configuration. The subsequent test configuration and SAR measurement procedures are described in the following.
 - (1) When SAR test exclusion provisions of KDB Publication 447498 D01 are applicable and SAR measurement is not required for the initial test configuration, SAR is also not required for the next highest maximum output power transmission mode subsequent test configuration(s) in that frequency band or aggregated band and exposure configuration.
 - (2) When the highest reported SAR for the initial test configuration (when applicable, include subsequent highest output channels), according to the initial test position or fixed exposure position requirements, is adjusted by the ratio of the subsequent test configuration to initial test configuration specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg, SAR is not required for that subsequent test configuration.

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6. Maximum Scaling SAR in order to calculate the Maximum SAR values to test under the standard Peak Power, Calculation method is as follows:
Maximum Scaling SAR = tested SAR (Max.) $\times$ [maximum turn-up power (mW)/ maximum measurement output power(mW)]
7. Proximity sensor, just for avoiding the wrong operation in the phone screen when call, and has no influence on output power or SAR result
8. Per KDB 941225 D05v02r05, start with the largest channel bandwidth and measure SAR for QPSK with 1RB allocation using the RB offset and required test channel combination with highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel.
9. Per KDB 941225 D05v02r05, 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure.
10. Per KDB 941225 D05v02r05. For QPSK with 100% RB allocation. SAR is not required when the highest maximum output power for 100% RB allocation is less than the highest maximum output power in 50% and 1RB allocation and the highest reported SAR is >1.45 W/kg, the remaining required test channels must also be tested.
11. Per KDB 941225 D05v02r05. 16QAM output power for each RB allocation configuration is not 1/2 dB higher than the same configuration in QPSK and the reported SAR for the QPSK configuration is ≤ 1.45 W/kg, Per KDB 941225 D05v02r05, 16QAM SAR testing is not required.
12. Per KDB 941225 D05v02r05. Smaller bandwidth output power for each RB allocation configuration is $>$ not 1/2 dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is ≤ 1.45 W/kg. Per KDB 941125 D05v02r05, smaller bandwidth SAR testing is not required.

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13.1.3. Test Result

SAR MEASUREMENT										
Depth of Liquid (cm):>15										
Product: 4G LTE Network IP Radio										
Test Mode: GSM850 with GMSK modulation										
Position	Mode	Ch.	Fr. (MHz)	Power Drift (<±5%)	SAR (1g) (W/kg)	Max. Tune-up Power (dBm)	Meas. Output Power (dBm)	Tune-up Scaling factor	Scaled SAR (W/kg)	Limit (W/kg)
SIM 1 Card										
Face up	GPRS-4 slot	190	836.6	0.73	0.609	29.20	29.11	1.021	0.622	1.6
Body back with all accessories	GPRS-4 slot	128	824.2	0.11	0.783	29.20	29.13	1.016	0.796	1.6
Body back with all accessories	GPRS-4 slot	190	836.6	0.23	0.791	29.20	29.11	1.021	0.808	1.6
Body back with all accessories	GPRS-4 slot	251	848.8	0.04	0.839	29.20	29.02	1.042	0.875	1.6

SAR MEASUREMENT										
Depth of Liquid (cm):>15										
Product: 4G LTE Network IP Radio										
Test Mode: PCS1900 with GMSK modulation										
Position	Mode	Ch.	Fr. (MHz)	Power Drift (<±5%)	SAR (1g) (W/kg)	Max. Tune-up Power (dBm)	Meas. Output Power (dBm)	Tune-up Scaling factor	Scaled SAR (W/kg)	Limit (W/kg)
Face up	GPRS-4 slot	661	1880.0	0.64	0.225	26.70	26.77	0.984	0.221	1.6
Body back with all accessories	GPRS-4 slot	661	1880	0.63	0.118	26.70	26.77	0.984	0.116	1.6

SAR MEASUREMENT													
Depth of Liquid (cm):>15													
Product: 4G LTE Network IP Radio													
Test Mode: LTE Band 2													
BM MHz	MOD	Position	Test Mode		Ch.	Freq. (MHz)	Power Drift (<±5%)	SAR (1g) (W/kg)	Max. Tune up Power (dBm)	Meas. Output Power (dBm)	Tune-up Scaling factor	Scaled SAR (W/kg)	Limit (W/kg)
			UL RB Allocation	UL RB START									
20	QPSK	Face up	1	0	18900	1880	1.03	0.282	24.20	22.97	1.327	0.374	1.6
		Body back with all accessories	1	0	18900	1880	0.37	0.390	24.20	22.97	1.327	0.518	1.6

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SAR MEASUREMENT													
Depth of Liquid (cm):>15													
Product: 4G LTE Network IP Radio													
Test Mode: LTE Band 4													
BM MHz	MOD	Position	Test Mode		Ch.	Freq. (MHz)	Power Drift (<±5%)	SAR (1g) (W/kg)	Max. Tuneup Power (dBm)	Meas. Output Power (dBm)	Tune-up Scaling factor	Scaled SAR (W/kg)	Limit (W/kg)
			UL RB Allocation	UL RB START									
20	QPSK	Face up	1	0	20175	1732.5	0.81	0.352	23.20	22.05	1.303	0.459	1.6
		Body back with all accessories	1	0	20175	1732.5	0.07	0.433	23.20	22.05	1.303	0.564	1.6

SAR MEASUREMENT													
Depth of Liquid (cm):>15													
Product: 4G LTE Network IP Radio													
Test Mode: LTE Band 5													
BM MHz	MOD	Position	Test Mode		Ch.	Freq. (MHz)	Power Drift (<±5%)	SAR (1g) (W/kg)	Max. Tuneup Power (dBm)	Meas. Output Power (dBm)	Tune-up Scaling factor	Scaled SAR (W/kg)	Limit (W/kg)
			UL RB Allocation	UL RB START									
10	QPSK	Face up	1	0	20525	836.5	0.67	0.410	23.30	22.85	1.109	0.455	1.6
		Body back with all accessories	1	0	20525	836.5	0.73	0.528	23.30	22.85	1.109	0.586	1.6

SAR MEASUREMENT													
Depth of Liquid (cm):>15													
Product: 4G LTE Network IP Radio													
Test Mode: LTE Band 7													
BM MHz	MOD	Position	Test Mode		Ch.	Freq. (MHz)	Power Drift (<±5%)	SAR (1g) (W/kg)	Max. Tuneup Power (dBm)	Meas. Output Power (dBm)	Tune-up Scaling factor	Scaled SAR (W/kg)	Limit (W/kg)
			UL RB Allocation	UL RB START									
20	QPSK	Face up	1	0	21100	2535	0.49	0.227	23.30	22.75	1.135	0.258	1.6
		Body back with all accessories	1	0	21100	2535	0.50	0.358	23.30	22.75	1.135	0.406	1.6

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SAR MEASUREMENT													
Depth of Liquid (cm):>15													
Product: 4G LTE Network IP Radio													
Test Mode: LTE Band 12													
BM MHz	MOD	Position	Test Mode		Ch.	Freq. (MHz)	Power Drift (<±5%)	SAR (1g) (W/kg)	Max. Tuneup Power (dBm)	Meas. Output Power (dBm)	Tune-up Scaling factor	Scaled SAR (W/kg)	Limit (W/kg)
			UL RB Allocation	UL RB START									
10	QPSK	Face up	1	0	23095	707.5	0.20	0.103	23.80	23.50	1.072	0.110	1.6
		Body back with all accessories	1	0	23095	707.5	0.19	0.156	23.80	23.50	1.072	0.167	1.6

SAR MEASUREMENT													
Depth of Liquid (cm):>15													
Product: 4G LTE Network IP Radio													
Test Mode: LTE Band 17													
BM MHz	MOD	Position	Test Mode		Ch.	Freq. (MHz)	Power Drift (<±5%)	SAR (1g) (W/kg)	Max. Tuneup Power (dBm)	Meas. Output Power (dBm)	Tune-up Scaling factor	Scaled SAR (W/kg)	Limit (W/kg)
			UL RB Allocation	UL RB START									
10	QPSK	Face up	1	0	23790	710	0.24	0.100	23.80	23.49	1.074	0.107	1.6
		Body back with all accessories	1	0	23790	710	0.41	0.146	23.80	23.49	1.074	0.157	1.6

SAR MEASUREMENT													
Depth of Liquid (cm):>15													
Product: 4G LTE Network IP Radio													
Test Mode: LTE Band 38													
BM MHz	MOD	Position	Test Mode		Ch.	Freq. (MHz)	Power Drift (<±5%)	SAR (1g) (W/kg)	Max. Tuneup Power (dBm)	Meas. Output Power (dBm)	Tune-up Scaling factor	Scaled SAR (W/kg)	Limit (W/kg)
			UL RB Allocation	UL RB START									
20	QPSK	Face up	1	0	38000	2595	0.22	0.142	23.40	22.67	1.183	0.168	1.6
		Body back with all accessories	1	0	38000	2595	0.16	0.227	23.40	22.67	1.183	0.269	1.6

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SAR MEASUREMENT													
Depth of Liquid (cm):>15													
Product: LTE smartphone													
Test Mode: LTE Band 40-Lower Side													
BM MHz	MOD	Position	Test Mode		Ch.	Freq. (MHz)	Power Drift (<±5%)	SAR (1g) (W/kg)	Max. Tuneup Power (dBm)	Meas. Output Power (dBm)	Tune-up Scaling factor	Scaled SAR (W/kg)	Limit (W/kg)
			UL RB Allocation	UL RB START									
15	QPSK	Face up	1	0	38750	2310	0.81	0.102	22.70	21.81	1.227	0.125	1.6
		Body back with all accessories	1	0	38750	2310	1.01	0.132	22.70	21.81	1.227	0.162	1.6

SAR MEASUREMENT													
Depth of Liquid (cm):>15													
Product: 4G LTE Network IP Radio													
Test Mode: LTE Band 40- Upper Side													
BW MHz	MOD	Position	Test Mode		Ch.	Freq. (MHz)	Power Drift (<±5%)	SAR (1g) (W/kg)	Max. Tuneup Power (dBm)	Meas. Output Power (dBm)	Tune-up Scaling factor	Scaled SAR (W/kg)	Limit (W/kg)
			UL RB Allocation	UL RB START									
10	QPSK	Face up	1	0	39200	2355	0.23	0.156	22.50	21.69	1.205	0.188	1.6
		Body back with all accessories	1	0	39200	2355	0.31	0.183	22.50	21.69	1.205	0.221	1.6

SAR MEASUREMENT													
Depth of Liquid (cm):>15													
Product: 4G LTE Network IP Radio													
Test Mode: LTE Band 41													
BW MHz	MOD	Position	Test Mode		Ch.	Freq. (MHz)	Power Drift (<±5%)	SAR (1g) (W/kg)	Max. Tuneup Power (dBm)	Meas. Output Power (dBm)	Tune-up Scaling factor	Scaled SAR (W/kg)	Limit (W/kg)
			UL RB Allocation	UL RB START									
20	QPSK	Face up	1	0	40620	2593	0.85	0.117	23.30	22.66	1.159	0.136	1.6
		Body back with all accessories	1	0	40620	2593	0.01	0.197	23.30	22.66	1.159	0.228	1.6

Note:

· When the 1-g Reported SAR is ≤ 0.8 W/kg, testing for low and high channel is optional. Refer to KDB 447498.

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SAR MEASUREMENT										
Depth of Liquid (cm):>15										
Product: 4G LTE Network IP Radio										
Test Mode:802.11b										
Position	Mode	Ch.	Fr. (MHz)	Power Drift (<±5%)	SAR (1g) (W/kg)	Max. Tune-up Power (dBm)	Meas. Output Power (dBm)	Tune-up Scaling factor	Scaled SAR (W/kg)	Limit (W/kg)
Face up	DTS	6	2437	1.08	0.029	13.20	12.31	1.227	0.036	1.6
Body back with all accessories	DTS	6	2437	0.09	0.147	13.20	12.31	1.227	0.180	1.6

Note:

- According to KDB248227, SAR is not required for 802.11n HT20/HT40 channels when the maximum average output power is less than 1/4 dB higher than that measured on the corresponding 802.11a/b channels.
- All of above "DTS" means data transmitters.

SAR MEASUREMENT									
Depth of Liquid (cm):>15									
Product: 4G LTE Network IP Radio									
Test Mode: 5.8GHz WIFI-802.11a									
Position	Ch.	Fr. (MHz)	Power Drift (<±5%)	SAR (1g) (W/kg)	Max. Tune-up Power (dBm)	Meas. Output Power (dBm)	Tune-up Scaling factor	Scaled SAR (W/kg)	Limit (W/kg)
Face up	157	5785	0.16	0.296	8.50	8.33	1.040	0.308	1.6
Body back with all accessories	157	5785	0.38	0.286	8.50	8.33	1.040	0.297	1.6

Note:

- When the 1-g Reported SAR is ≤ 0.8 W/kg, testing for low and high channel is optional. Refer to KDB 447498.

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Repeated SAR										
Product: 4G LTE Network IP Radio										
Test Mode: GSM850										
Position	Mode	Ch.	Fr. (MHz)	Power Drift (<±5%)	Once SAR (1g) (W/kg)	Power Drift (<±5%)	Twice SAR (1g) (W/kg)	Power Drift (<±5%)	Third SAR (1g) (W/kg)	Limit W/kg
Body back with all accessories	GPRS-4 slot	251	848.8	0.21	0.809	–	–	–	–	1.6

The second repeated SAR judge reference								
Product: 4G LTE Network IP Radio								
Band	Position	Mode	Ch.	Fr. (MHz)	Original SAR (1g) (W/kg)	First SAR (1g) (W/kg)	Ratio	Limit
GSM850	Body back with all accessories	GPRS-4 slot	251	848.8	0.839	0.809	1.037	<1.2

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Simultaneous Multi-band Transmission Evaluation:

Application Simultaneous Transmission information:

NO	Simultaneous state	Portable Handset	
		Face up	Body back with all accessories
1	GSM (Data) + WLAN 2.4GHz/ 5GHz (data)	Yes	Yes
2	GSM (Data) + Bluetooth(data)	Yes	Yes
3	LTE + WLAN 2.4GHz/ 5GHz (data)	Yes	Yes
4	LTE + Bluetooth(data)	Yes	Yes

NOTE:

1. WIFI and BT share the same antenna, and cannot transmit simultaneously.
2. Simultaneous with every transmitter must be the same test position.
3. KDB 447498 D01, BT SAR is excluded as below table.
4. KDB 447498 D01, for handsets the test separation distance is determined by the smallest distance between the outer surface of the device and the user; which is 25mm for face up SAR and 0mm for body-worn SAR.
5. According to KDB 447498 D01 4.3.1, Standalone SAR test exclusion is as follow:
For 100 MHz to 6 GHz and test separation distances ≤ 50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:

$$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$$
for 1-g SAR, and ≤ 7.5 for 10-g extremity SAR³⁰, where
 - f(GHz) is the RF channel transmit frequency in GHz
 - Power and distance are rounded to the nearest mW and mm before calculation³¹
 - The result is rounded to one decimal place for comparison
 - The values 3.0 and 7.5 are referred to as numeric thresholds in step b) below
The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm, and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm according to 4.1 f) is applied to determine SAR test exclusion.
6. If the test separation distance is < 5 mm, 5mm is used for excluded SAR calculation.
7. According to KDB 447498 D01 4.3.2, simultaneous transmission SAR test exclusion is as follow:
 - (1) 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.
 - (2) Any transmitters and antennas should be considered when calculating simultaneous mode.
 - (3) For mobile phone and PC, it's the sum of all transmitters and antennas at the same mode with same position in each applicable exposure condition
 - (4) When the standalone SAR test exclusion of section 4.3.2 is applied to an antenna that transmits simultaneously with other antennas, the standalone SAR must be estimated according to the following to det

$$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})/x}] \leq 50$$
W/kg for test separation distances ≤ 50 mm;
where $x = 7.5$ for 1-g SAR, and $x = 18.75$ for 10-g SAR.

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8. When the sum of SAR is larger than the limit, SAR test exclusion is determined by the SAR to peak location separation ratio. The simultaneous transmitting antennas in each operating mode and exposure condition combination must be considered one pair at a time to determine the SAR to peak location separation ratio to qualify for test exclusion. The ratio is determined by $(SAR1 + SAR2)1.5/R_i$, rounded to two decimal digits, and must be ≤ 0.04 for all antenna pairs in the configuration to qualify for 1-g SAR test exclusion.

Estimated SAR		Max Power including Tune-up Tolerance		Separation Distance (mm)	Estimated SAR (W/kg)
		dBm	mW		
BT	Face up	7	5.012	25	0.041
	Body back with all accessories	7	5.012	0	0.207

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Sum of the SAR for GSM 850 & Wi-Fi & BT:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario				Σ 1-g SAR (W/kg)	SPLSR (Yes/No)
		GSM 850	2.4GHz Wi-Fi DTS Band	5.8GHz Wi-Fi Band	Bluetooth		
Face up & Body back with all accessories	Face up	0.622	0.036			0.658	No
		0.622		0.308		0.930	No
		0.622			0.041	0.663	No
	Body back with all accessories	0.875	0.180			1.055	No
		0.875		0.297		1.172	No
		0.875			0.207	1.082	No

Sum of the SAR for GSM 1900 & Wi-Fi & BT:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario				Σ 1-g SAR (W/kg)	SPLSR (Yes/No)
		PCS 1900	2.4GHz Wi-Fi DTS Band	5.8GHz Wi-Fi Band	Bluetooth		
Face up & Body back with all accessories	Face up	0.221	0.036			0.257	No
		0.221		0.308		0.529	No
		0.221			0.041	0.262	No
	Body back with all accessories	0.116	0.180			0.296	No
		0.116		0.297		0.413	No
		0.116			0.207	0.323	No

Sum of the SAR for LTE Band 2 & Wi-Fi & BT:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario				Σ 1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 2	2.4GHz Wi-Fi DTS Band	5.8GHz Wi-Fi Band	Bluetooth		
Face up & Body back with all accessories	Face up	0.374	0.036			0.410	No
		0.374		0.308		0.682	No
		0.374			0.041	0.415	No
	Body back with all accessories	0.518	0.180			0.698	No
		0.518		0.297		0.815	No
		0.518			0.207	0.725	No

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Sum of the SAR for LTE Band 4 & Wi-Fi & BT:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario				Σ 1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 4	2.4GHz Wi-Fi DTS Band	5.8GHz Wi-Fi Band	Bluetooth		
Face up & Body back with all accessories	Face up	0.459	0.036			0.495	No
		0.459		0.308		0.767	No
		0.459			0.041	0.500	No
	Body back with all accessories	0.564	0.180			0.744	No
		0.564		0.297		0.861	No
		0.564			0.207	0.771	No

Sum of the SAR for LTE Band 5 & Wi-Fi & BT:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario				Σ 1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 5	2.4GHz Wi-Fi DTS Band	5.8GHz Wi-Fi Band	Bluetooth		
Face up & Body back with all accessories	Face up	0.455	0.036			0.491	No
		0.455		0.308		0.763	No
		0.455			0.041	0.496	No
	Body back with all accessories	0.586	0.180			0.766	No
		0.586		0.297		0.883	No
		0.586			0.207	0.793	No

Sum of the SAR for LTE Band 7 & Wi-Fi & BT:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario				Σ 1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 7	2.4GHz Wi-Fi DTS Band	5.8GHz Wi-Fi Band	Bluetooth		
Face up & Body back with all accessories	Face up	0.258	0.036			0.294	No
		0.258		0.308		0.566	No
		0.258			0.041	0.299	No
	Body back with all accessories	0.406	0.180			0.586	No
		0.406		0.297		0.703	No
		0.406			0.207	0.613	No

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Sum of the SAR for LTE Band 12 & Wi-Fi & BT:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario				Σ 1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 12	2.4GHz Wi-Fi DTS Band	5.8GHz Wi-Fi Band	Bluetooth		
Face up & Body back with all accessories	Face up	0.110	0.036			0.146	No
		0.110		0.308		0.418	No
		0.110			0.041	0.151	No
	Body back with all accessories	0.167	0.180			0.347	No
		0.167		0.297		0.464	No
		0.167			0.207	0.374	No

Sum of the SAR for LTE Band 17 & Wi-Fi & BT:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario				Σ 1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 17	2.4GHz Wi-Fi DTS Band	5.8GHz Wi-Fi Band	Bluetooth		
Face up & Body back with all accessories	Face up	0.107	0.036			0.143	No
		0.107		0.308		0.415	No
		0.107			0.041	0.148	No
	Body back with all accessories	0.157	0.180			0.337	No
		0.157		0.297		0.454	No
		0.157			0.207	0.364	No

Sum of the SAR for LTE Band 38 & Wi-Fi & BT:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario				Σ 1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 38	2.4GHz Wi-Fi DTS Band	5.8GHz Wi-Fi Band	Bluetooth		
Face up & Body back with all accessories	Face up	0.168	0.036			0.204	No
		0.168		0.308		0.476	No
		0.168			0.041	0.209	No
	Body back with all accessories	0.269	0.180			0.449	No
		0.269		0.297		0.566	No
		0.269			0.207	0.476	No

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Sum of the SAR for LTE Band 40-Lower Side &Wi-Fi & BT:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario				Σ 1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 40-Lower Side	2.4GHz Wi-Fi DTS Band	5.8GHz Wi-Fi Band	Bluetooth		
Face up & Body back with all accessories	Face up	0.125	0.036			0.161	No
		0.125		0.308		0.433	No
		0.125			0.041	0.166	No
	Body back with all accessories	0.162	0.180			0.342	No
		0.162		0.297		0.459	No
		0.162			0.207	0.369	No

Sum of the SAR for LTE Band 40-Upper Side &Wi-Fi & BT:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario				Σ 1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 40-Upper Side	2.4GHz Wi-Fi DTS Band	5.8GHz Wi-Fi Band	Bluetooth		
Face up & Body back with all accessories	Face up	0.188	0.036			0.224	No
		0.188		0.308		0.496	No
		0.188			0.041	0.229	No
	Body back with all accessories	0.221	0.180			0.401	No
		0.221		0.297		0.518	No
		0.221			0.207	0.428	No

Sum of the SAR for LTE Band 41 &Wi-Fi & BT:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario				Σ 1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 41	2.4GHz Wi-Fi DTS Band	5.8GHz Wi-Fi Band	Bluetooth		
Face up & Body back with all accessories	Face up	0.136	0.036			0.172	No
		0.136		0.308		0.444	No
		0.136			0.041	0.177	No
	Body back with all accessories	0.228	0.180			0.408	No
		0.228		0.297		0.525	No
		0.228			0.207	0.435	No

Note:

- According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than 1.6 W/kg, SPLSR assessment is not required.
- SPLSR mean is "The SAR to Peak Location Separation Ratio "

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APPENDIX A. SAR SYSTEM CHECK DATA

Test Laboratory: AGC Lab

Date: Aug. 22, 2025

System Check Head 750 MHz

DUT: Dipole 750 MHz Type: SID 750

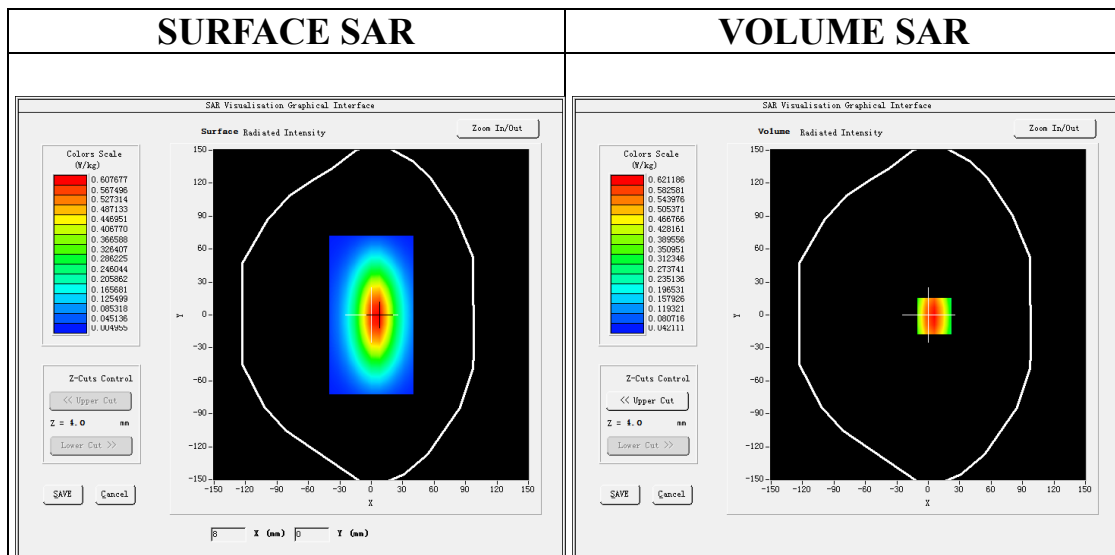
Communication System CW; Communication System Band: D750 (750.0 MHz); Duty Cycle: 1:1; Conv.F=2.30
Frequency: 750 MHz; Medium parameters used: $f = 750$ MHz; $\sigma = 0.92$ mho/m; $\epsilon_r = 41.47$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section; Input Power=18dBm

SATIMO Configuration:

- Probe: SSE2; Calibrated: 2025-05-06; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

Configuration/System Check 750MHz Head/Area Scan: Measurement grid: dx=8mm, dy=8mm

Configuration/System Check 750MHz Head/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm



Maximum location: X=6.00, Y=-1.00

SAR Peak: 0.89 W/kg

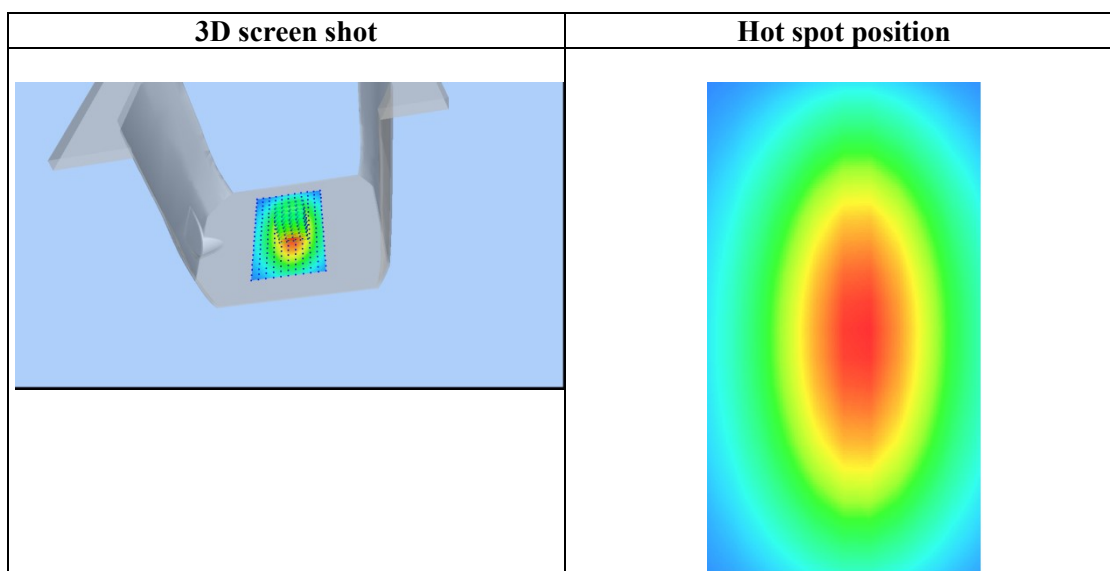
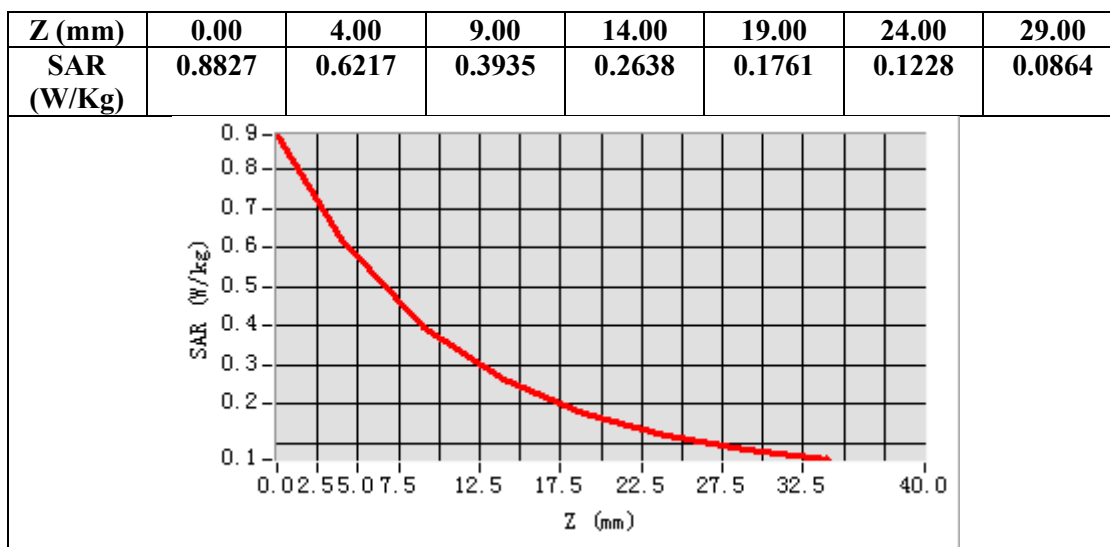
SAR 10g (W/Kg)	0.353875
SAR 1g (W/Kg)	0.552985

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Test Laboratory: AGC Lab
System Check Head 835 MHz

Date: Aug. 23, 2025

DUT: Dipole 835 MHz Type: SID 835

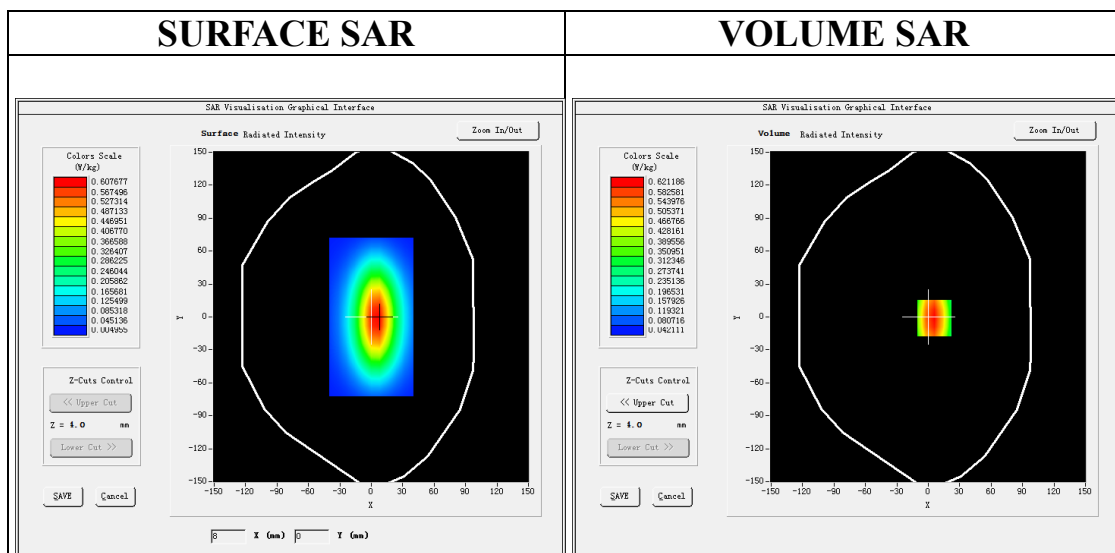
Communication System CW; Communication System Band: D835 (835.0 MHz); Duty Cycle: 1:1; Conv.F=2.23
Frequency: 835 MHz; Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.91 \text{ mho/m}$; $\epsilon_r = 41.28$; $\rho = 1000 \text{ kg/m}^3$;
Phantom section: Flat Section; Input Power=18dBm

SATIMO Configuration:

- Probe: SSE2; Calibrated: 2025-05-06; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

Configuration/System Check 835MHz Head/Area Scan: Measurement grid: dx=8mm, dy=8mm

Configuration/System Check 835MHz Head/Zoom Scan: Measurement grid: dx=8mm, dy=8mm, dz=5mm



Maximum location: X=6.00, Y=-1.00

SAR Peak: 0.89 W/kg

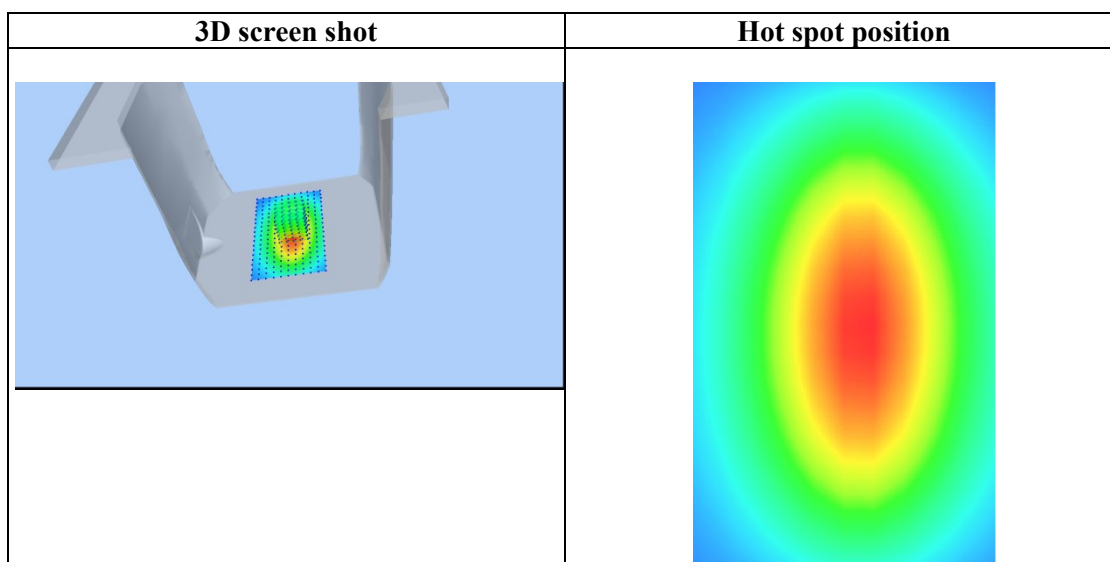
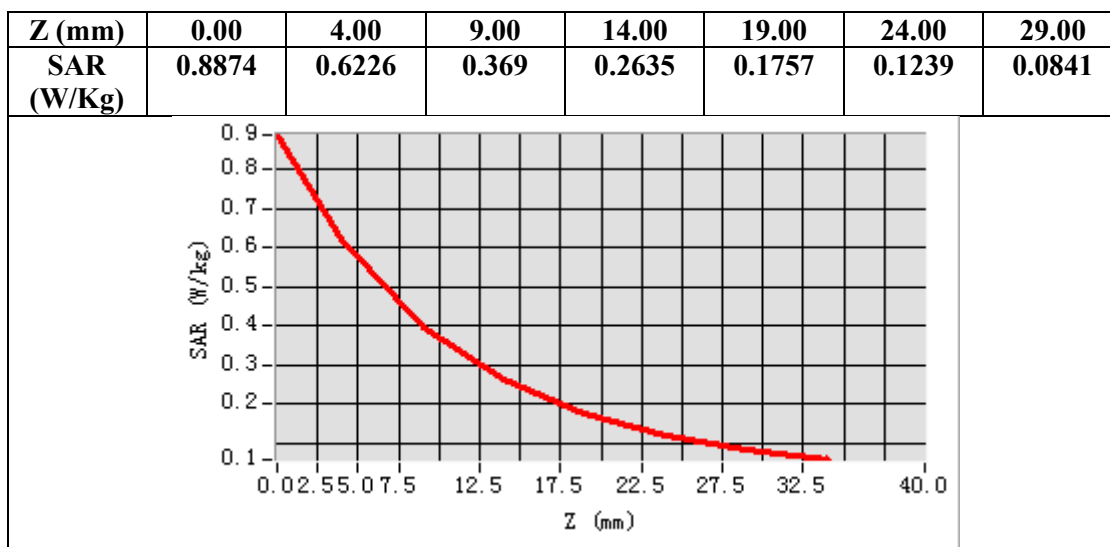
SAR 10g (W/Kg)	0.387524
SAR 1g (W/Kg)	0.606385

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Test Laboratory: AGC Lab
System Check Head 1750MHz

Date: Aug. 17, 2025

DUT: Dipole 1800 MHz; Type: SID 1800

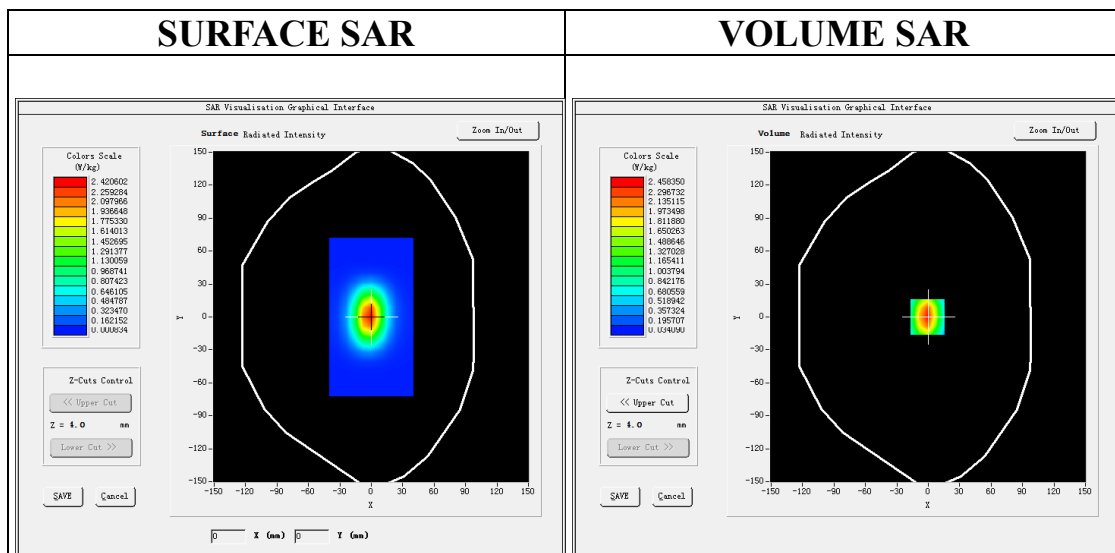
Communication System: CW; Communication System Band: D1700 (1750.0 MHz); Duty Cycle:1:1; Conv.F=2.33
Frequency: 1750 MHz; Medium parameters used: $f = 1750\text{MHz}$; $\sigma = 1.42 \text{ mho/m}$; $\epsilon_r = 39.73$; $\rho = 1000 \text{ kg/m}^3$;
Phantom section: Flat Section; Input Power=18dBm

SATIMO Configuration:

- Probe: SSE2; Calibrated: 2025-05-06; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

Configuration/System Check 1750MHz Head/Area Scan: Measurement grid: $dx=8\text{mm}, dy=8\text{mm}$

Configuration/System Check 1750MHz Head/Zoom Scan: Measurement grid: $dx=8\text{mm}, dy=8\text{mm}, dz=5\text{mm}$



Maximum location: X=-1.00, Y=0.00

SAR Peak: 4.02 W/kg

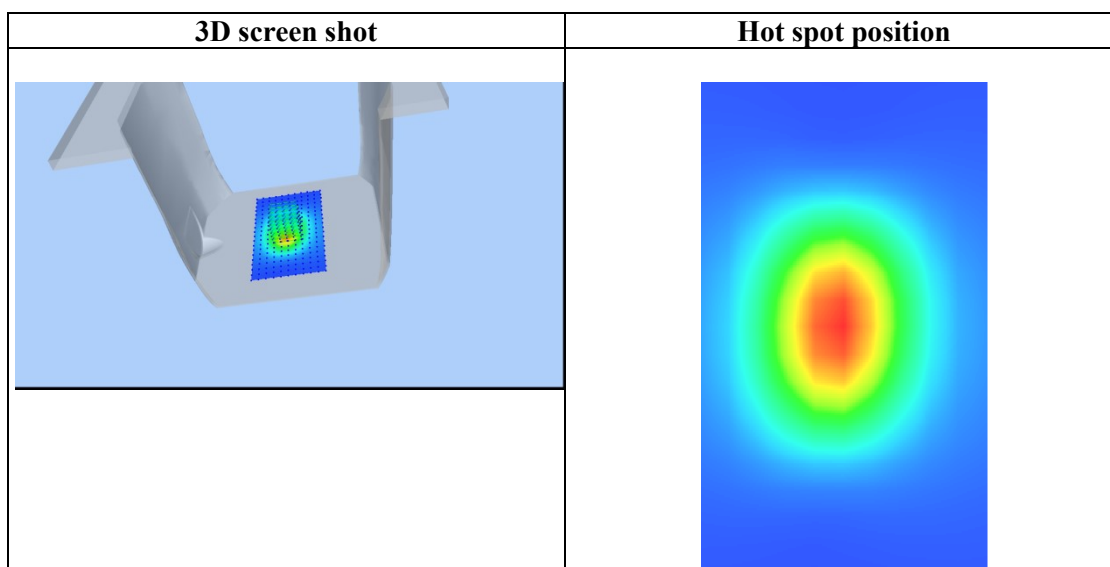
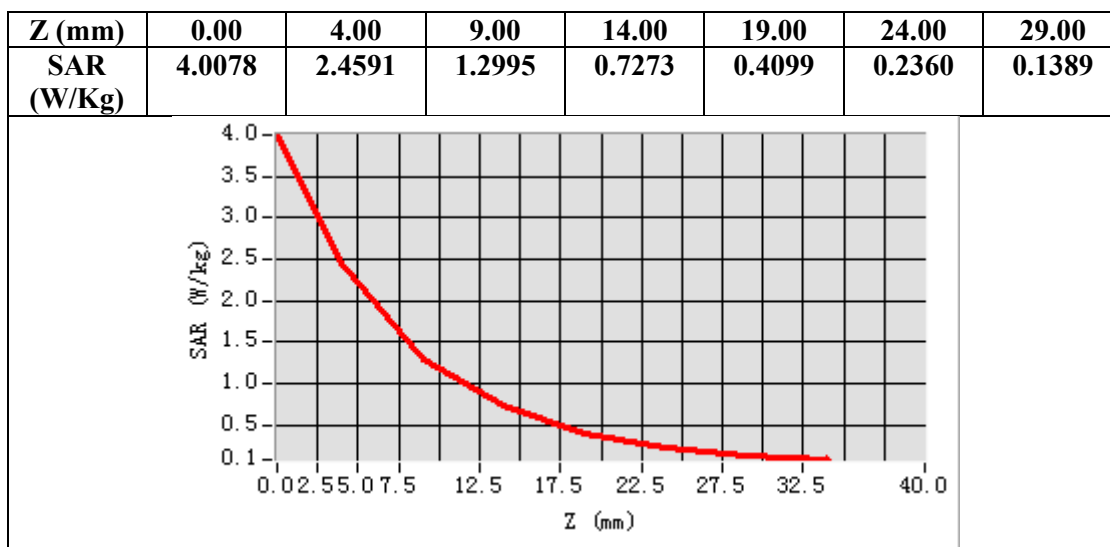
SAR 10g (W/Kg)	1.198690
SAR 1g (W/Kg)	2.316518

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Test Laboratory: AGC Lab
System Check Head 1900MHz

Date: Aug. 18, 2025

DUT: Dipole 1900 MHz; Type: SID 1900

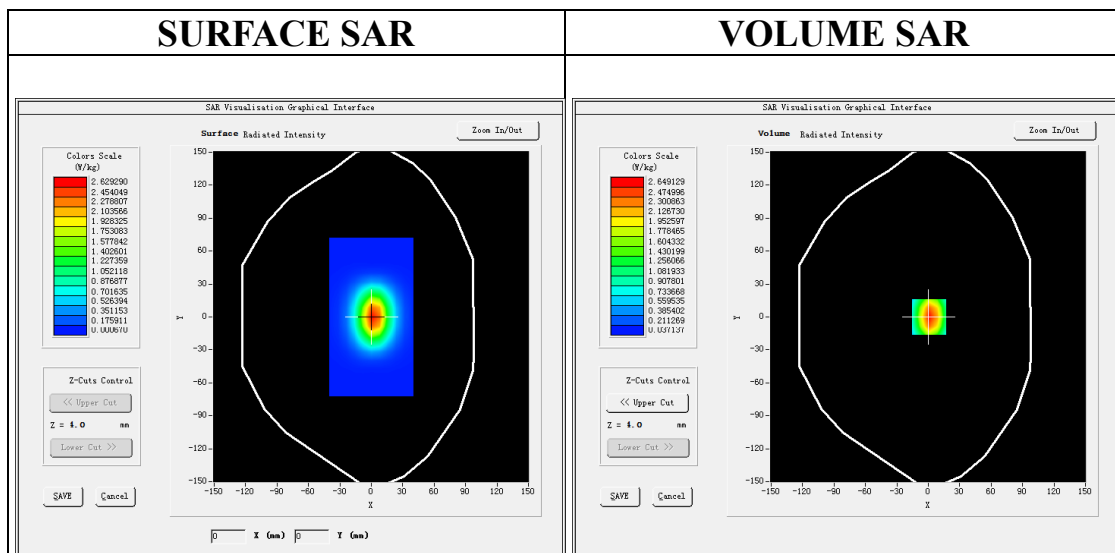
Communication System: CW; Communication System Band: D1900 (1900.0 MHz); Duty Cycle:1:1; Conv.F=2.25
Frequency: 1900 MHz; Medium parameters used: $f = 1900$ MHz; $\sigma = 1.42$ mho/m; $\epsilon_r = 39.44$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section; Input Power=18dBm

SATIMO Configuration:

- Probe: SSE2; Calibrated: 2025-05-06; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

Configuration/System Check 1900MHz Head/Area Scan: Measurement grid: dx=8mm, dy=8mm

Configuration/System Check 1900MHz Head/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm



Maximum location: X=1.00, Y=0.00

SAR Peak: 4.31 W/kg

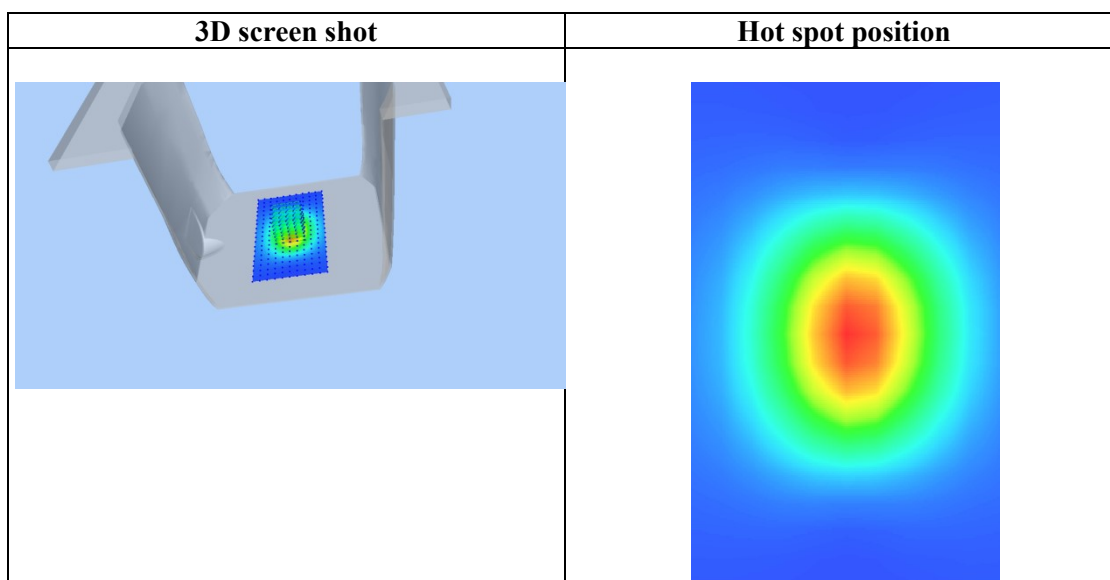
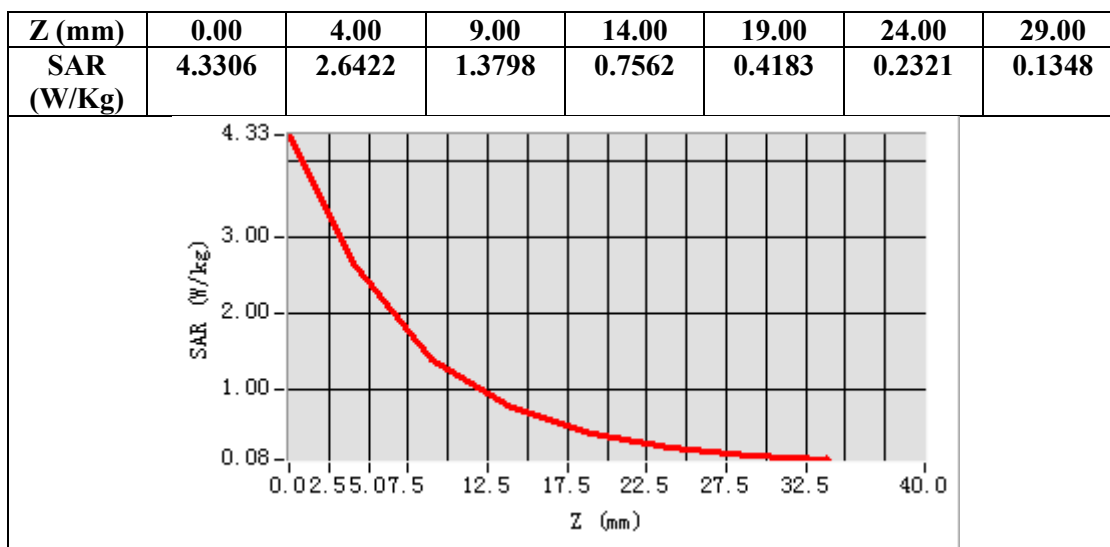
SAR 10g (W/Kg)	1.264797
SAR 1g (W/Kg)	2.500952

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Test Laboratory: AGC Lab
System Check Head 2300 MHz

Date: Aug. 19, 2025

DUT: Dipole 2300 MHz Type: SID 2300

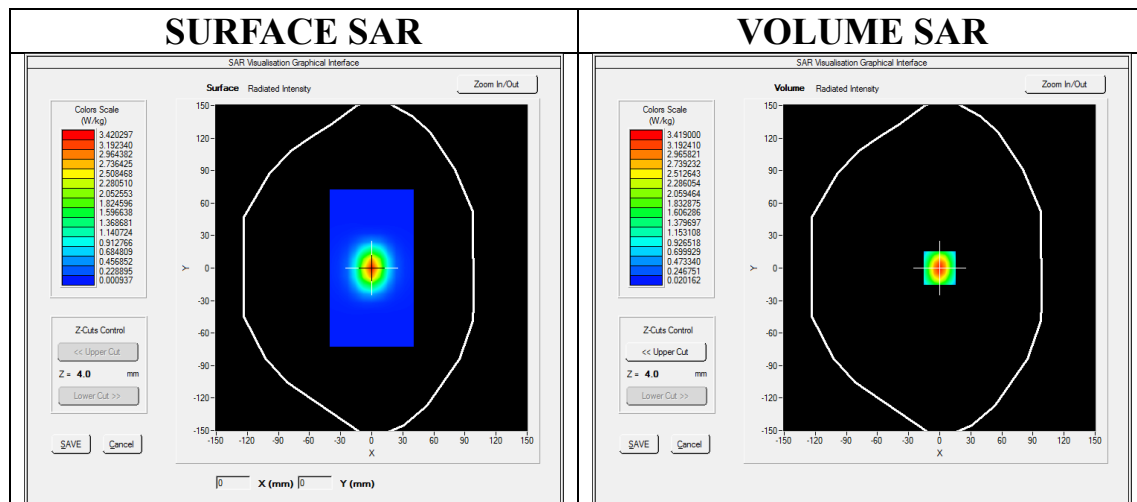
Communication System CW; Communication System Band: D2300 (2300.0 MHz); Duty Cycle: 1:1; Conv.F=2.37
Frequency: 2300 MHz; Medium parameters used: $f = 2300$ MHz; $\sigma = 1.71$ mho/m; $\epsilon_r = 40.16$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section; Input Power=18dBm

SATIMO Configuration

- Probe: SSE2; Calibrated: 2025-05-06; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

Configuration/System Check 2300MHz Head/Area Scan: Measurement grid: dx=8mm, dy=8mm

Configuration/System Check 2300MHz Head/Zoom Scan: Measurement grid: dx=5mm,dy=5mm, dz=5mm



Maximum location: X=0.00, Y=0.00

SAR Peak: 5.72 W/kg

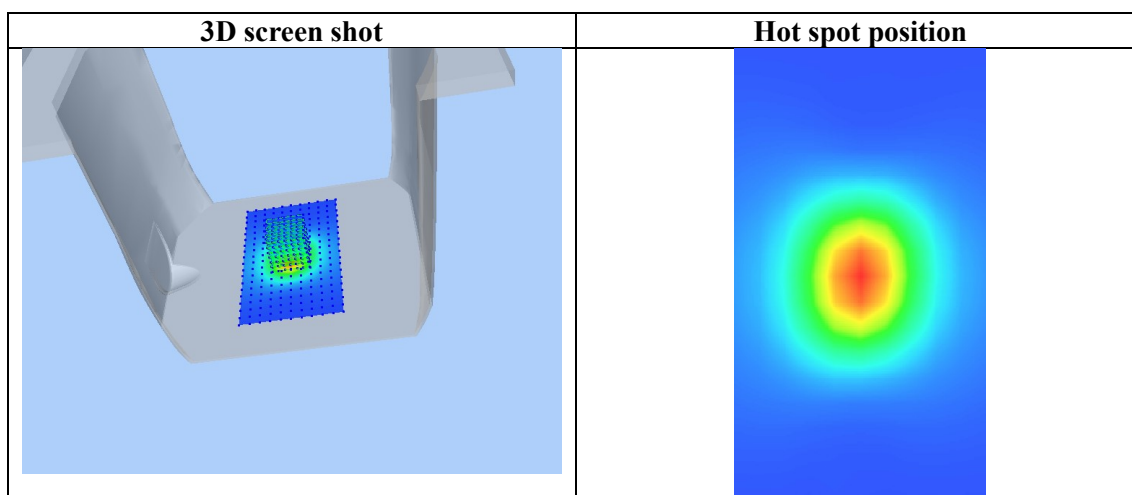
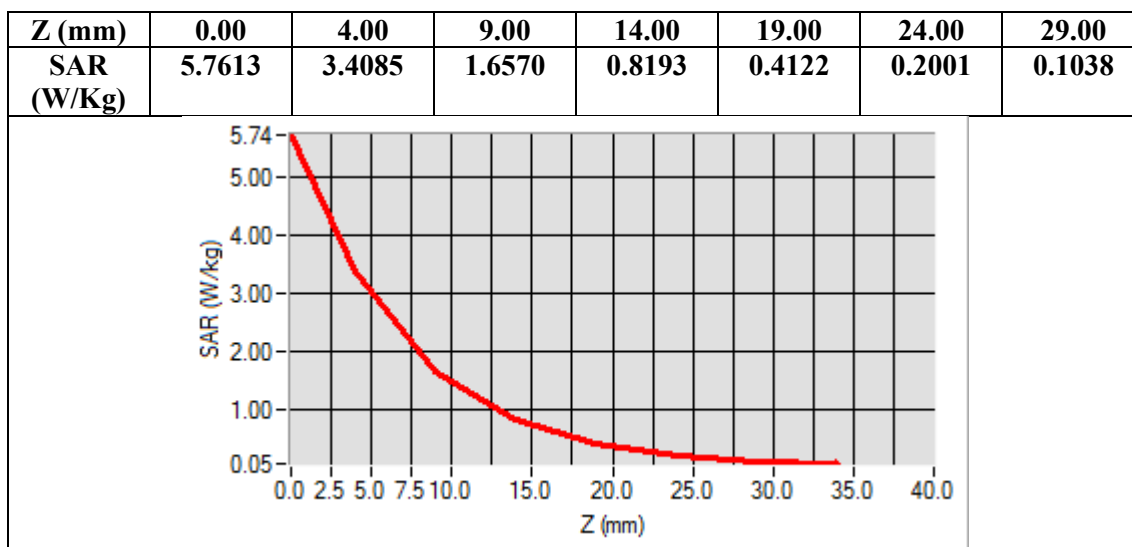
SAR 10g (W/Kg)	1.435316
SAR 1g (W/Kg)	3.114019

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Test Laboratory: AGC Lab
System Check Head 2450 MHz

Date: Aug. 27, 2025

DUT: Dipole 2450 MHz Type: SID 2450

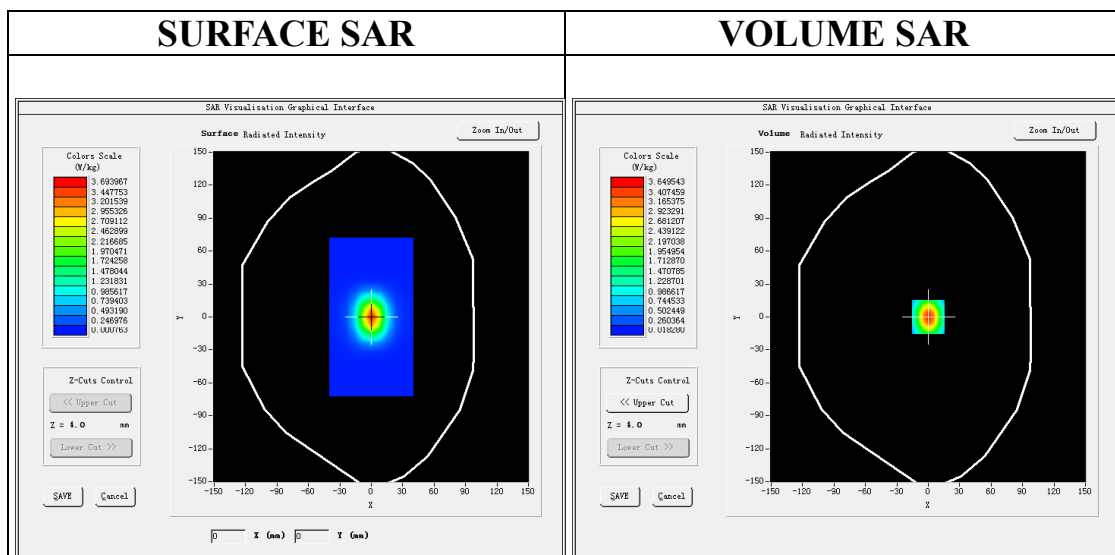
Communication System CW; Communication System Band: D2450 (2450.0 MHz); Duty Cycle: 1:1; Conv.F=2.29
Frequency: 2450 MHz; Medium parameters used: $f = 2450$ MHz; $\sigma = 1.81$ mho/m; $\epsilon_r = 39.47$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section; Input Power=18dBm

SATIMO Configuration

- Probe: SSE2; Calibrated: 2025-05-06; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

Configuration/System Check 2450MHz Head/Area Scan: Measurement grid: dx=8mm, dy=8mm

Configuration/System Check 2450MHz Head/Zoom Scan: Measurement grid: dx=5mm,dy=5mm, dz=5mm



Maximum location: X=0.00, Y=0.00

SAR Peak: 6.27 W/kg

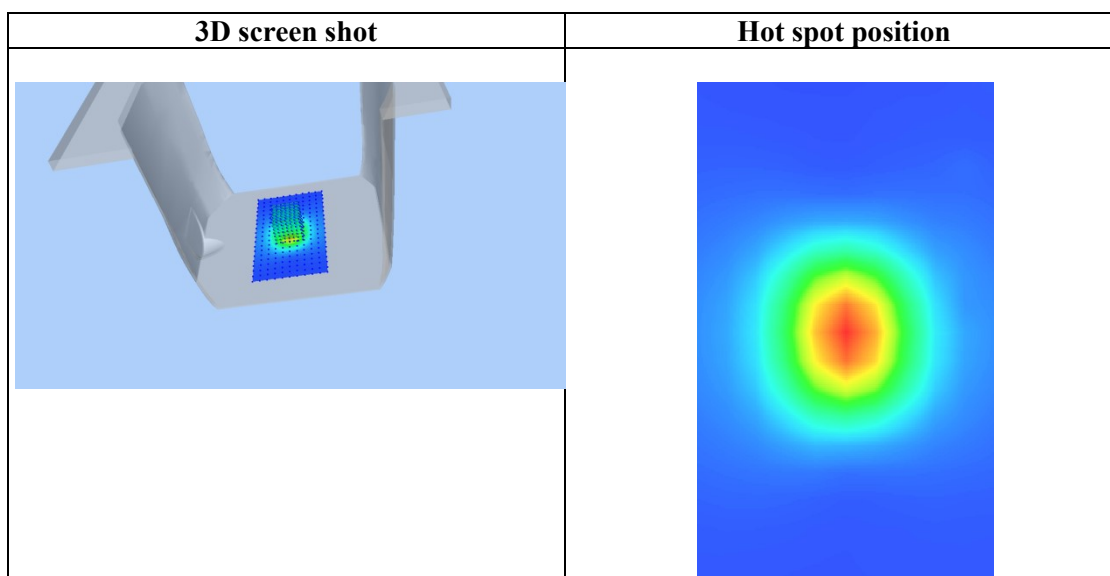
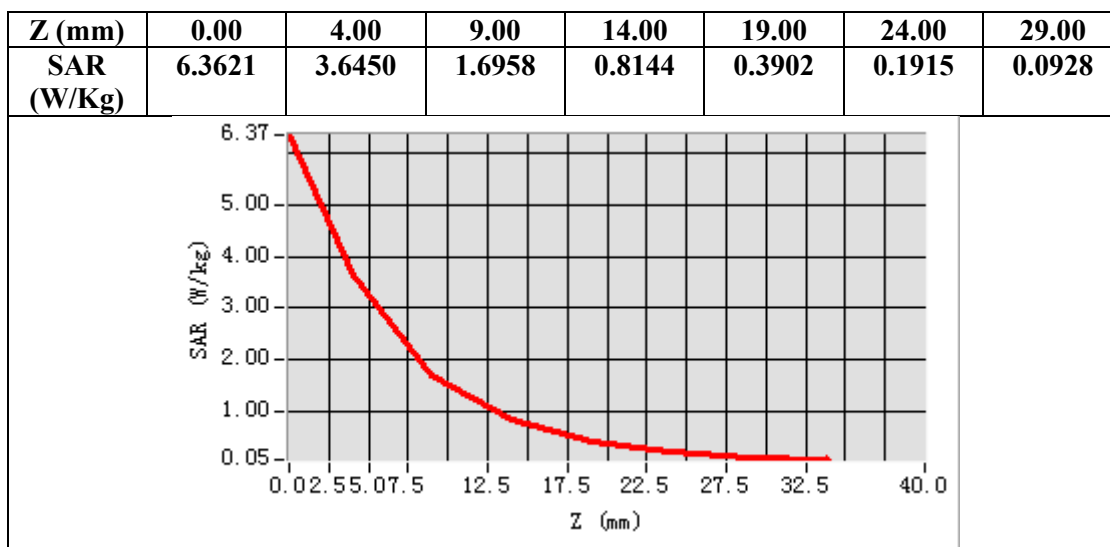
SAR 10g (W/Kg)	1.494517
SAR 1g (W/Kg)	3.337029

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Test Laboratory: AGC Lab
System Check Head 2600MHz
DUT: Dipole 2600 MHz; Type: SID 2600

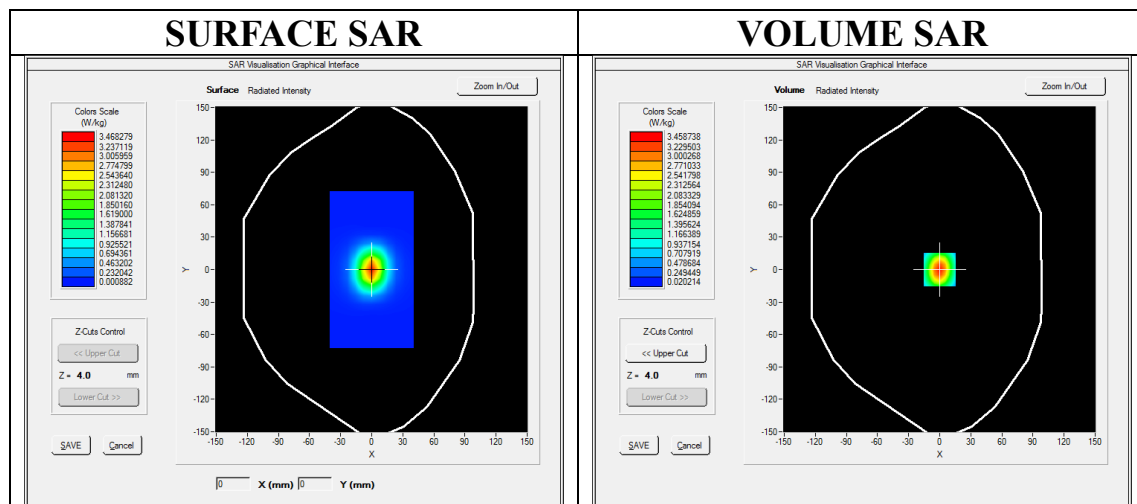
Date: Aug. 20, 2025

Communication System: CW; Communication System Band: D2600 (2600.0 MHz); Duty Cycle: 1:1; Conv.F=2.19
Frequency:2600 MHz; Medium parameters used: $f = 2600$ MHz; $\sigma = 1.90$ mho/m; $\epsilon_r = 38.43$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section; Input Power=18dBm

SATIMO Configuration:

- Probe: SSE2; Calibrated: 2025-05-06; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

Configuration/System Check 2600 Head/Area Scan: Measurement grid: dx=8mm,dy=8mm
Configuration/System Check 2600 Head/Zoom Scan: Measurement grid: dx=5mm,dy=5mm, dz=5mm

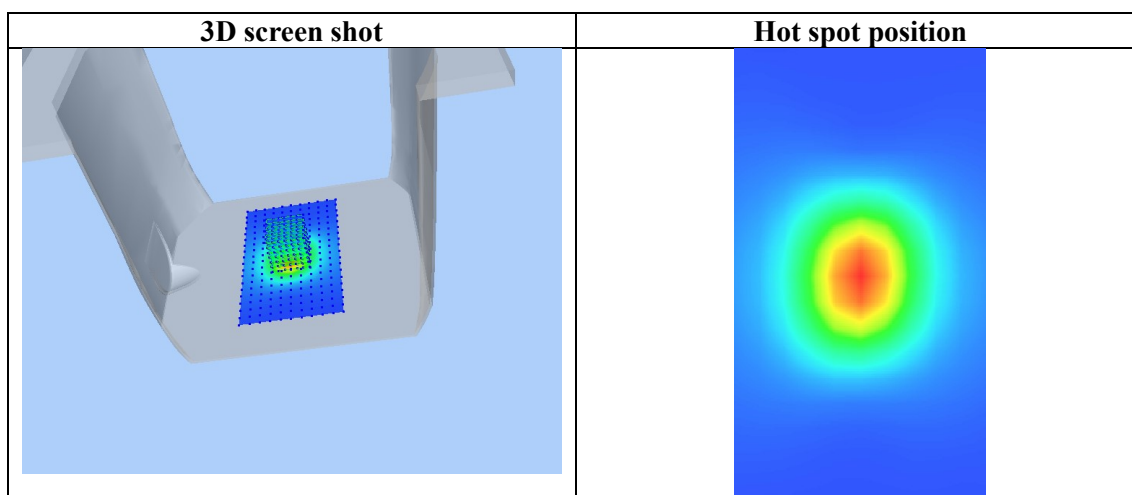
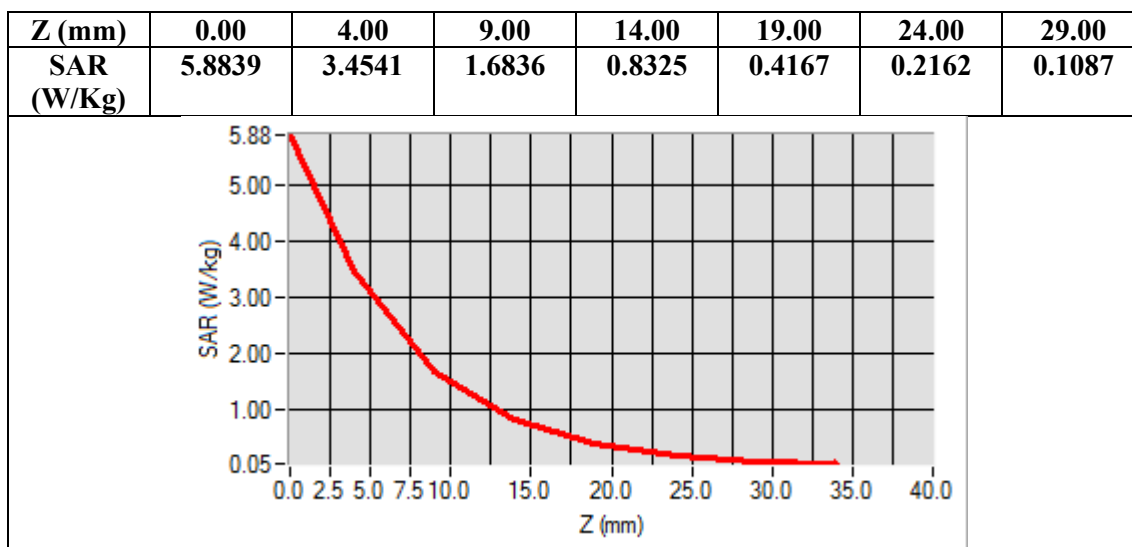


Maximum location: X=0.00, Y=0.00
SAR Peak: 5.80 W/kg

SAR 10g (W/Kg)	1.465530
SAR 1g (W/Kg)	3.255709

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Test Laboratory: AGC Lab
System Check Head 5800 MHz
DUT: Dipole 5000MHz Type: SID5000

Date: Sep. 01, 2025

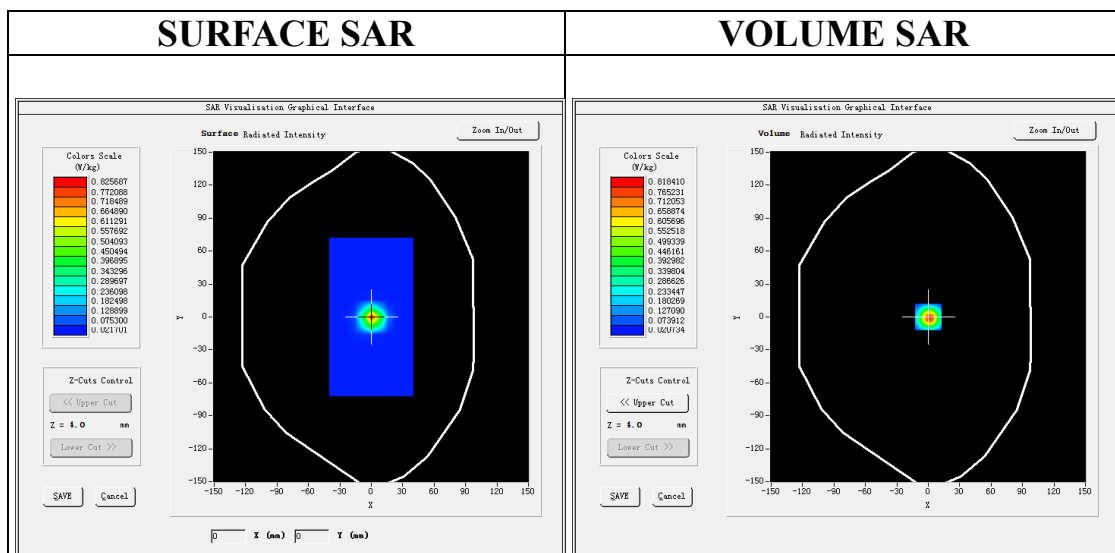
Communication System: CW; Communication System Band: D5000 (5000.0 MHz); Duty Cycle: 1:1; Conv.F=1.41
Frequency: 5800 MHz; Medium parameters used: $f = 5750$ MHz; $\sigma = 5.15$ mho/m; $\epsilon_r = 34.61$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section; Input Power=10dBm

SATIMO Configuration:

- Probe: SSE2; Calibrated: 2025-05-06; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

Configuration/System Check 5800 MHz Head/Area Scan: Measurement grid: dx=8mm, dy=8mm

Configuration/System Check 5800 MHz Head/Zoom Scan: Measurement grid: dx=4mm,dy=4mm, dz=2mm



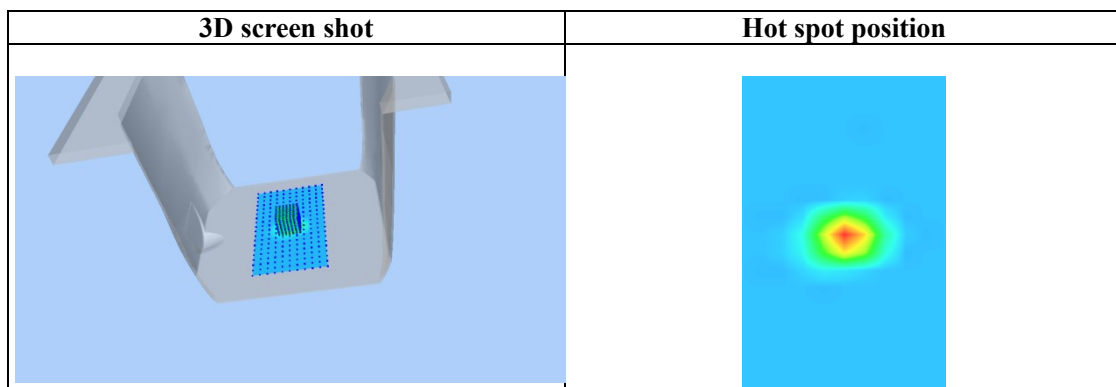
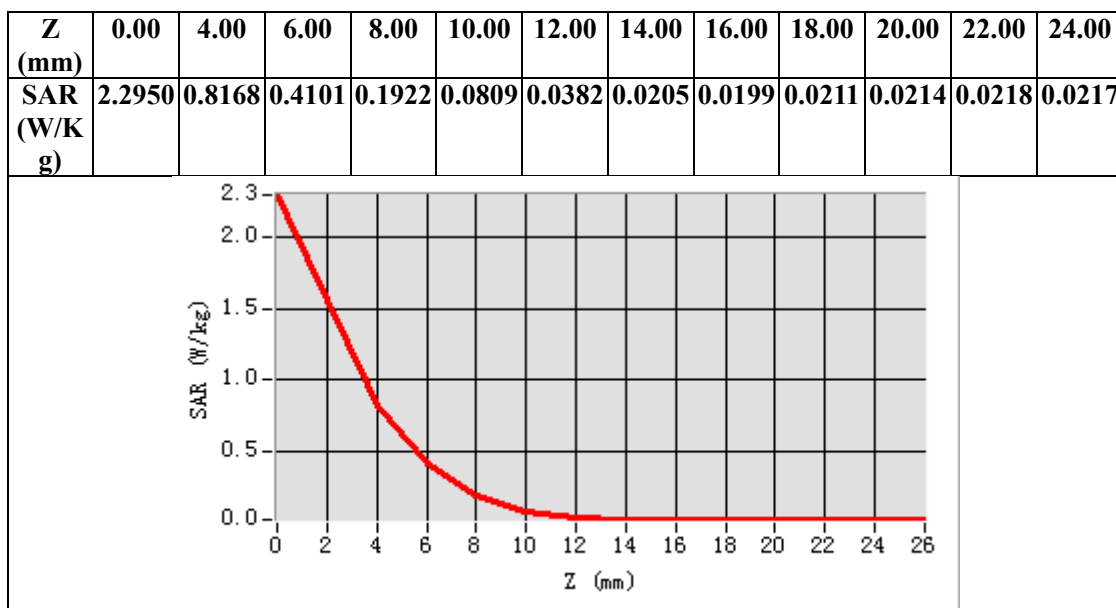
Maximum location: X=0.00, Y=0.00

SAR Peak: 2.27 W/kg

SAR 10g (W/Kg)	0.221385
SAR 1g (W/Kg)	0.765708

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APPENDIX B. SAR MEASUREMENT DATA

Test Laboratory: AGC Lab

Date: Aug. 23, 2025

GPRS 850 Mid- Face up (4up)

DUT: 4G LTE Network IP Radio; Type: IP-310

Communication System: GPRS-4 Slot; Communication System Band: GSM 850; Duty Cycle: 1:2.1; Conv.F=2.23;
Frequency: 836.6 MHz; Medium parameters used: $f = 835$ MHz; $\sigma = 0.92$ mho/m; $\epsilon = 40.69$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section

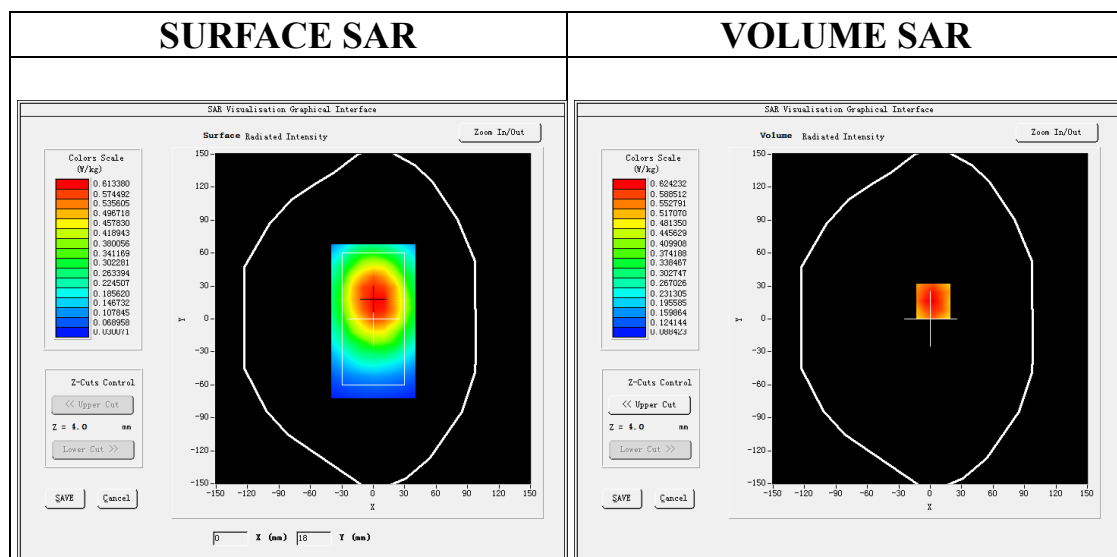
SATIMO Configuration:

- Probe: SSE2; Calibrated: 2025-05-06; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

Configuration/GPRS 850 Mid- Face up /Area Scan: Measurement grid: dx=8mm, dy=8mm

Configuration/GPRS 850 Mid- Face up /Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm;

Area Scan	surf_sam_plan.txt, h= 5.00 mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Validation plane
Device Position	Face up
Band	GSM 850
Channels	Middle
Signal	TDMA (Crest factor: 2.0)



Maximum location: X=3.00, Y=16.00

SAR Peak: 0.85 W/kg

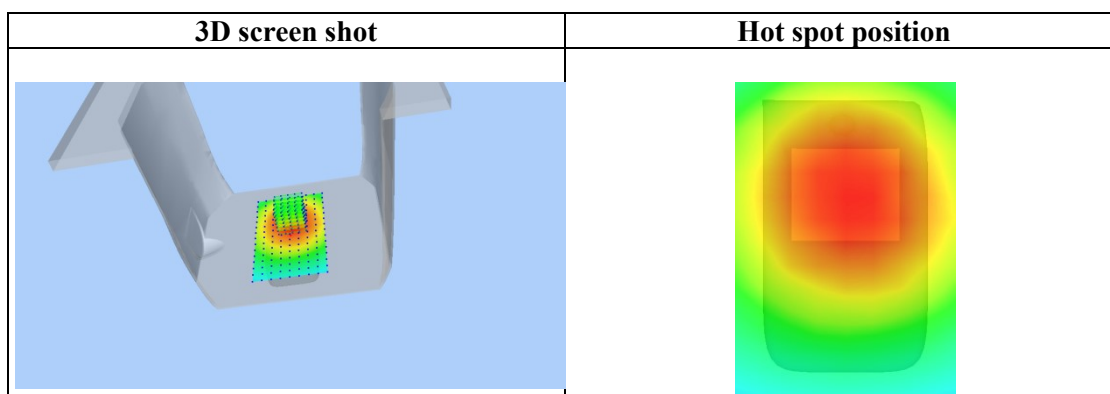
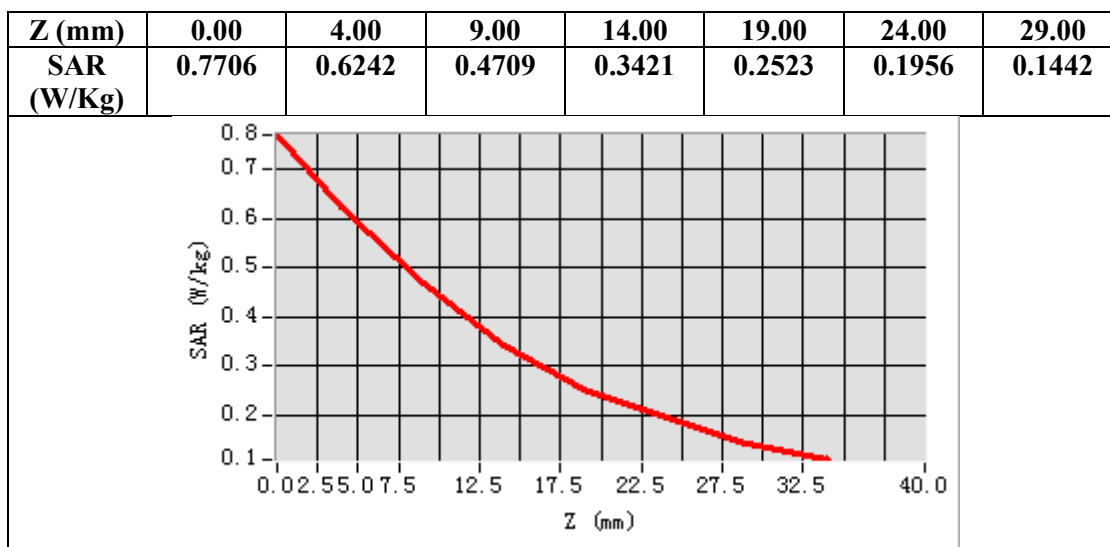
SAR 10g (W/Kg)	0.431756
SAR 1g (W/Kg)	0.609180

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Test Laboratory: AGC Lab
GPRS 850 High- Body back with all accessories (4up)
DUT: 4G LTE Network IP Radio; Type: IP-310

Date: Aug. 23, 2025

Communication System: GPRS-4 Slot; Communication System Band: GSM 850; Duty Cycle: 1:2.1; Conv.F=2.23;
Frequency: 848.8 MHz; Medium parameters used: $f = 835$ MHz; $\sigma = 0.93$ mho/m; $\epsilon_r = 39.91$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section

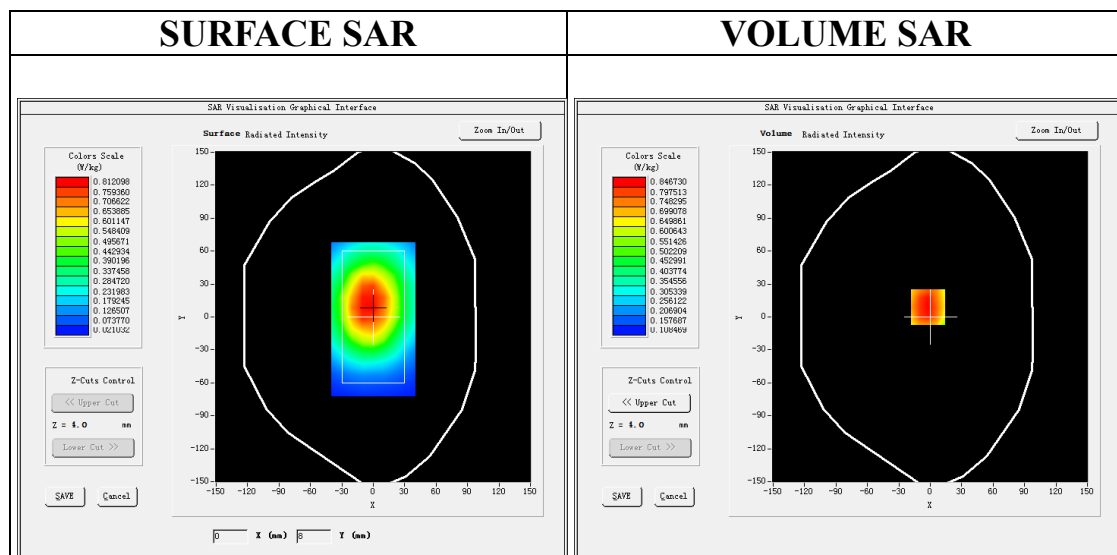
SATIMO Configuration:

- Probe: SSE2; Calibrated: 2025-05-06; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

Configuration/GPRS 850 High-Body back with all accessories/Area Scan: Measurement grid: dx=8mm, dy=8mm

Configuration/GPRS 850 High-Body back with all accessories/Zoom Scan: Measurement grid: dx=8mm, dy=8mm, dz=5mm;

Area Scan	surf_sam_plan.txt, h= 5.00 mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Validation plane
Device Position	Body back with all accessories
Band	GSM 850
Channels	High
Signal	TDMA (Crest factor: 2.0)

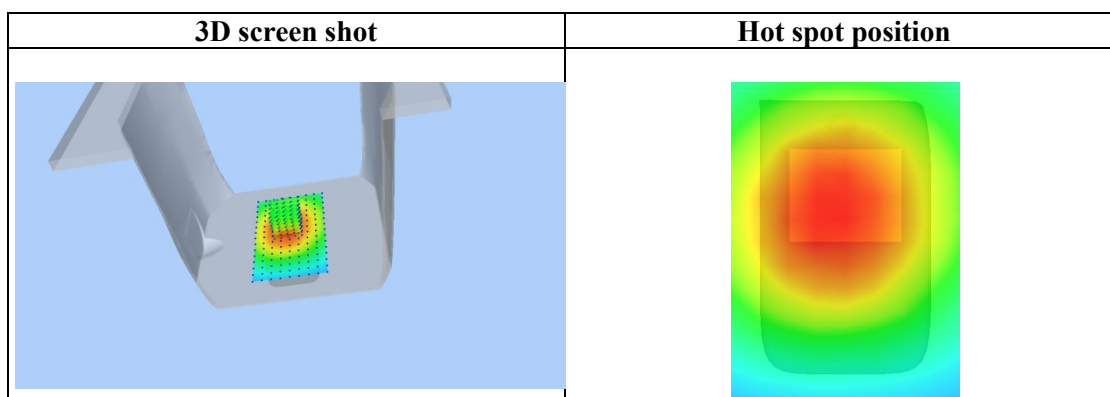
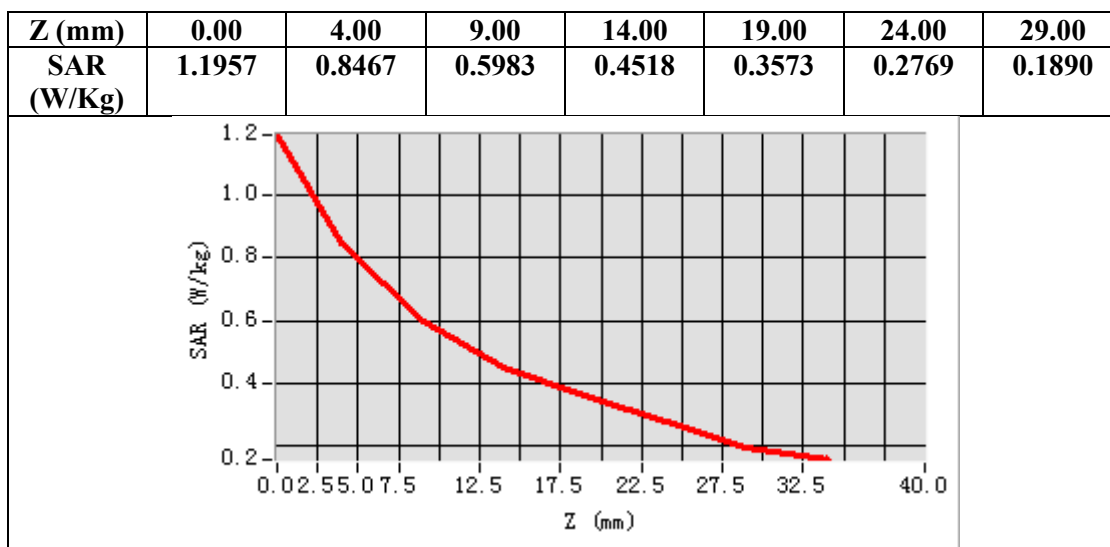


Maximum location: X=-2.00, Y=9.00
SAR Peak: 1.19 W/kg

SAR 10g (W/Kg)	0.578785
SAR 1g (W/Kg)	0.838524

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Test Laboratory: AGC Lab
GPRS 1900 Mid- Face up (4up)
DUT: 4G LTE Network IP Radio; Type: IP-310

Date: Aug. 18, 2025

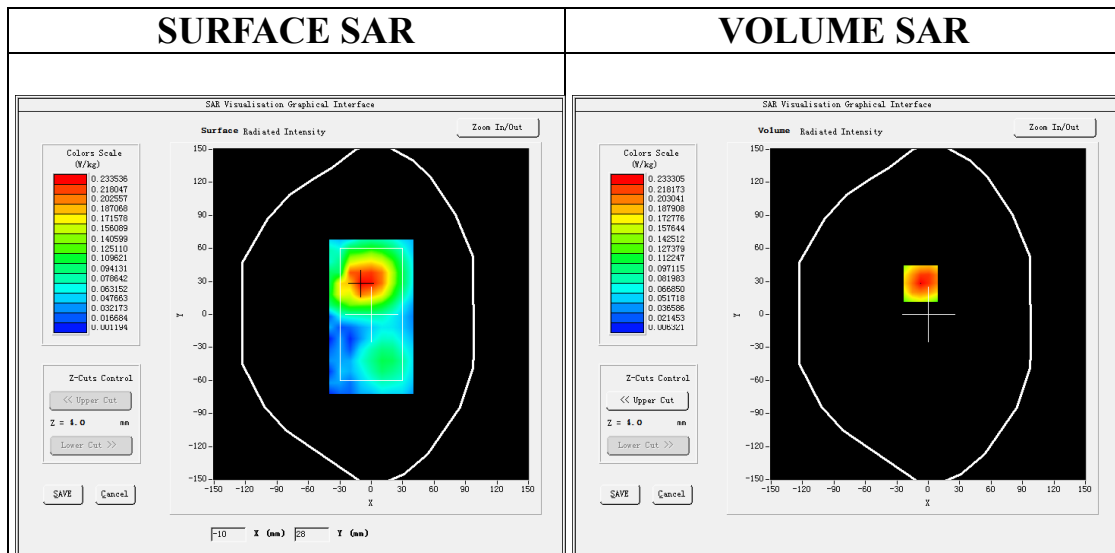
Communication System: GPRS-4Slot; Communication System Band: PCS 1900; Duty Cycle: 1:2.1; Conv.F=2.25;
Frequency: 1880 MHz; Medium parameters used: $f = 1900$ MHz; $\sigma = 1.40$ mho/m; $\epsilon_r = 39.67$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section

SATIMO Configuration:

- Probe: SSE2; Calibrated: 2025-05-06; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

Configuration/GPRS1900 Mid- Face up /Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/GPRS1900 Mid- Face up /Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm;

Area Scan	surf_sam_plan.txt, h= 5.00 mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Validation plane
Device Position	Face up
Band	PCS 1900
Channels	Middle
Signal	TDMA (Crest factor: 2.0)



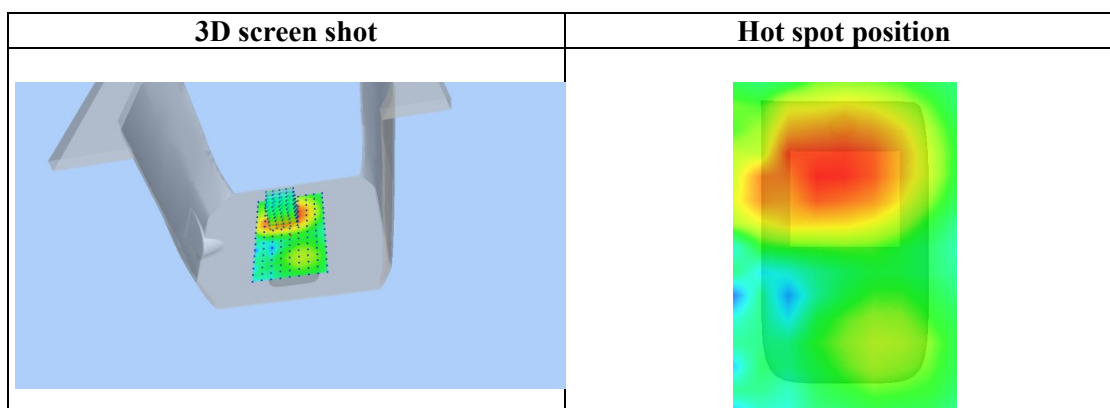
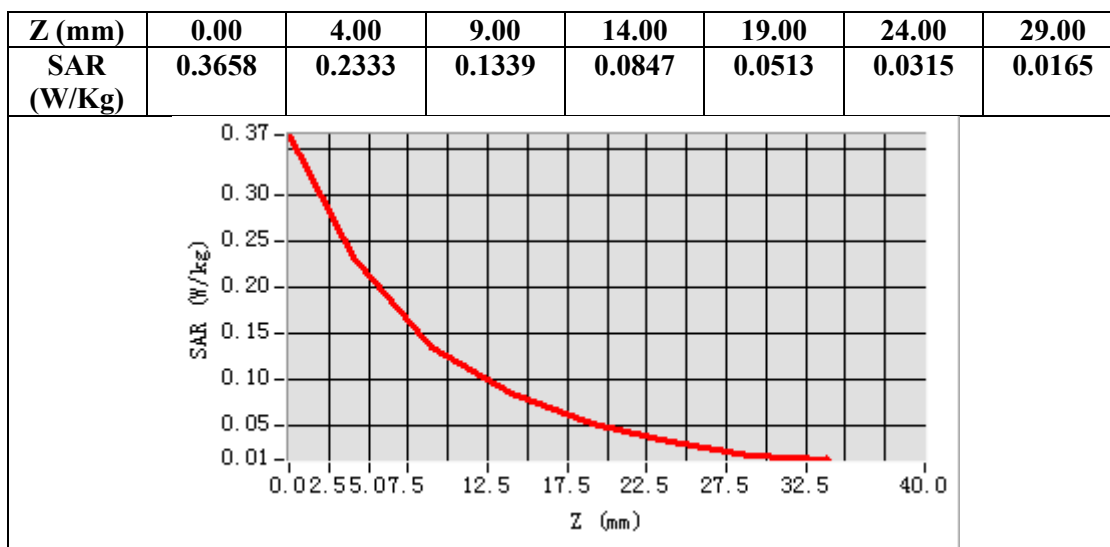
Maximum location: X=-7.00, Y=28.00

SAR Peak: 0.37 W/kg

SAR 10g (W/Kg)	0.131896
SAR 1g (W/Kg)	0.225361

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Test Laboratory: AGC Lab
GPRS 1900 Mid- Body back with all accessories (4up)
DUT: 4G LTE Network IP Radio; Type: IP-310

Date: Aug. 18, 2025

Communication System: GPRS-4Slot; Communication System Band: PCS 1900; Duty Cycle: 1:2.1; Conv.F=2.25;
Frequency: 1880 MHz; Medium parameters used: $f = 1900$ MHz; $\sigma = 1.40$ mho/m; $\epsilon_r = 39.67$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section

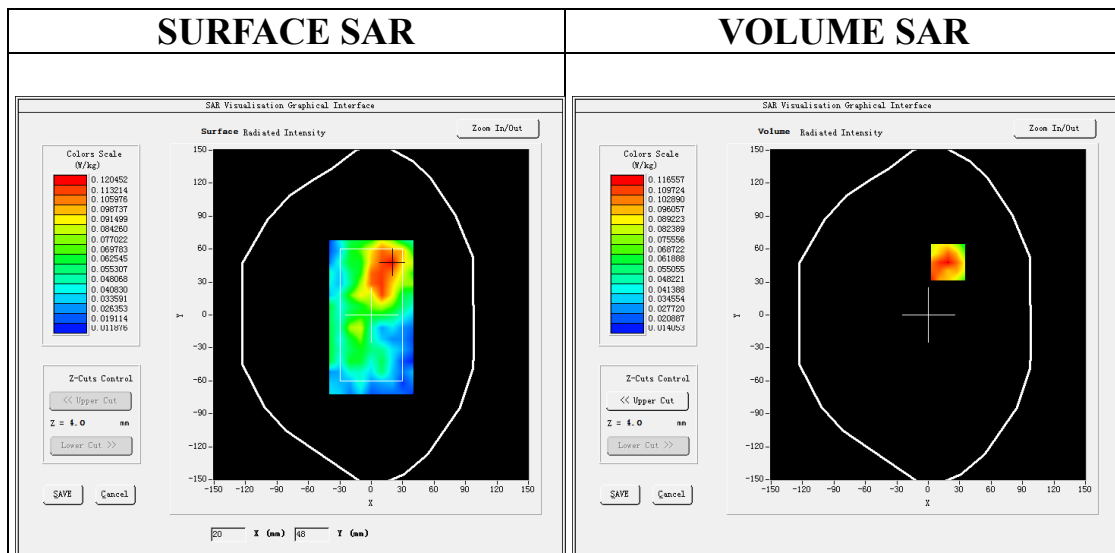
SATIMO Configuration:

- Probe: SSE2; Calibrated: 2025-05-06; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

Configuration/GPRS1900 Mid- Body back with all accessories /Area Scan: Measurement grid: dx=8mm, dy=8mm

Configuration/GPRS1900 Mid- Body back with all accessories /Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm;

Area Scan	surf_sam_plan.txt, h= 5.00 mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Validation plane
Device Position	Body back with all accessories
Band	PCS 1900
Channels	Middle
Signal	TDMA (Crest factor: 2.0)



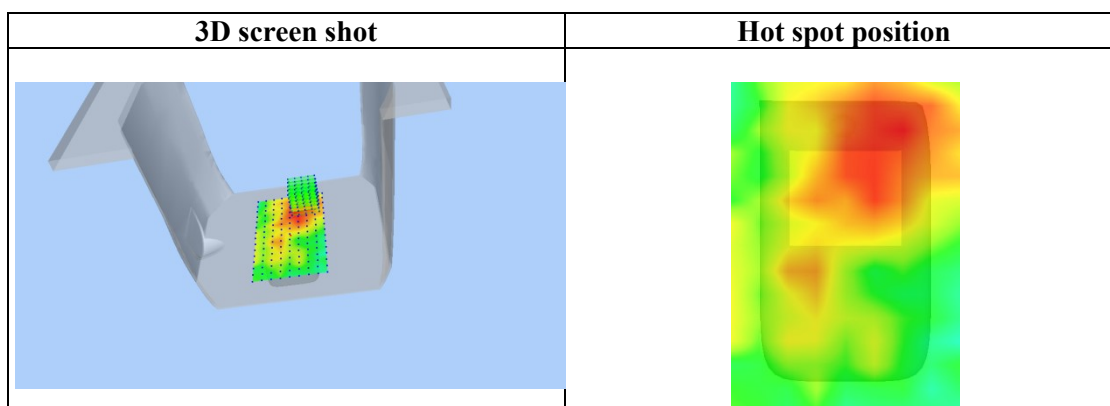
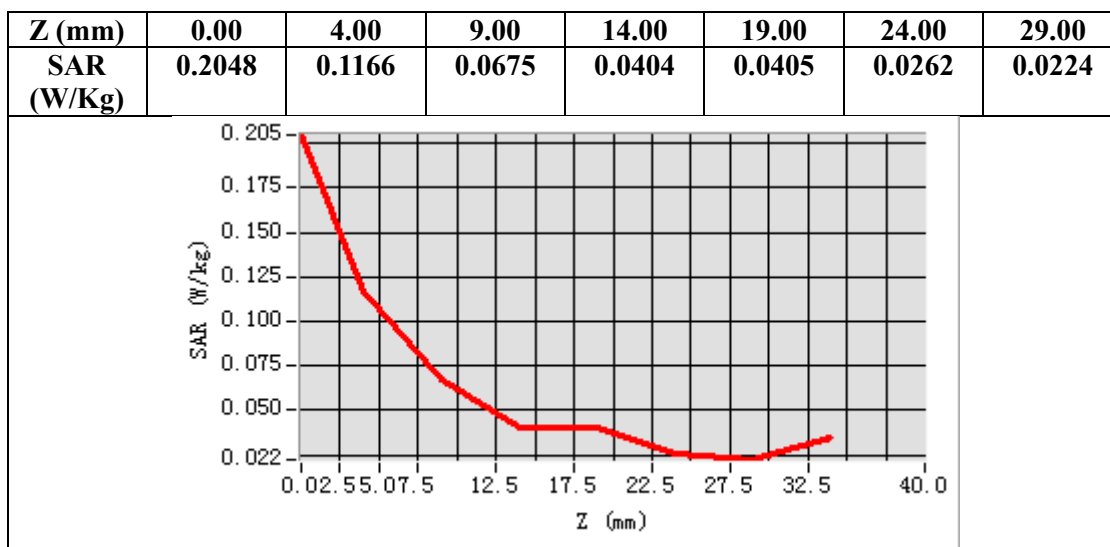
Maximum location: X=19.00, Y=48.00

SAR Peak: 0.20 W/kg

SAR 10g (W/Kg)	0.071388
SAR 1g (W/Kg)	0.117957

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Test Laboratory: AGC Lab
LTE Band 2 Mid-Face up (1 RB#0)
DUT: 4G LTE Network IP Radio; Type: IP-310

Date: Aug. 18, 2025

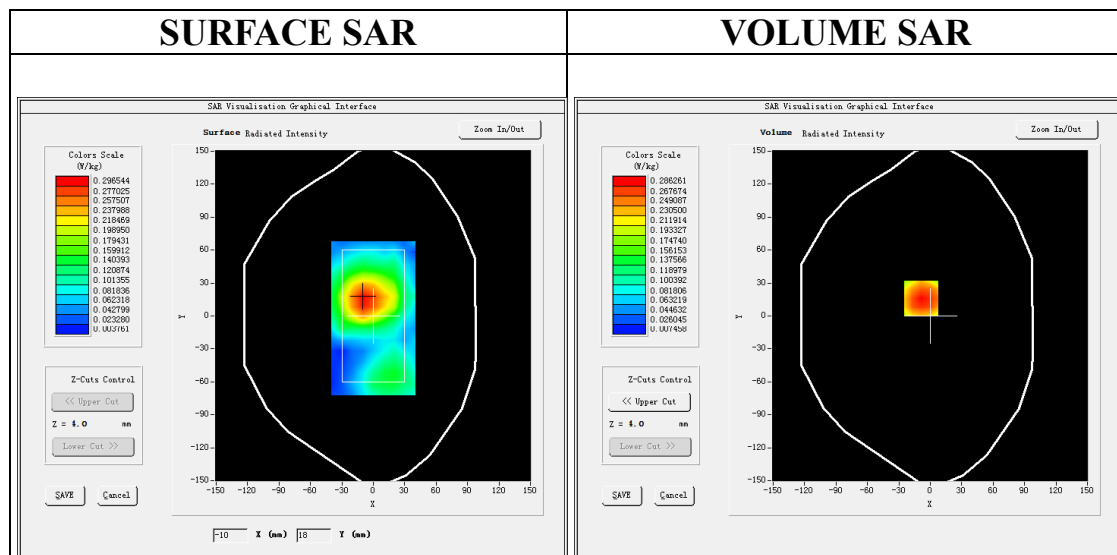
Communication System: LTE; Communication System Band: LTE Band 2; Duty Cycle:1:1; Conv.F=2.25;
Frequency:1880MHz; Medium parameters used: $f = 1900$ MHz; $\sigma = 1.40$ mho/m; $\epsilon_r = 39.67$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section

SATIMO Configuration:

- Probe: SSE2; Calibrated: 2025-05-06; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

Configuration/ LTE Band 2 Mid-Face up/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/ LTE Band 2 Mid-Face up/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm;

Area Scan	surf_sam_plan.txt, h= 5.00 mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Face up
Band	LTE Band 2
Channels	Middle
Signal	OFDM (Crest factor: 1.0)



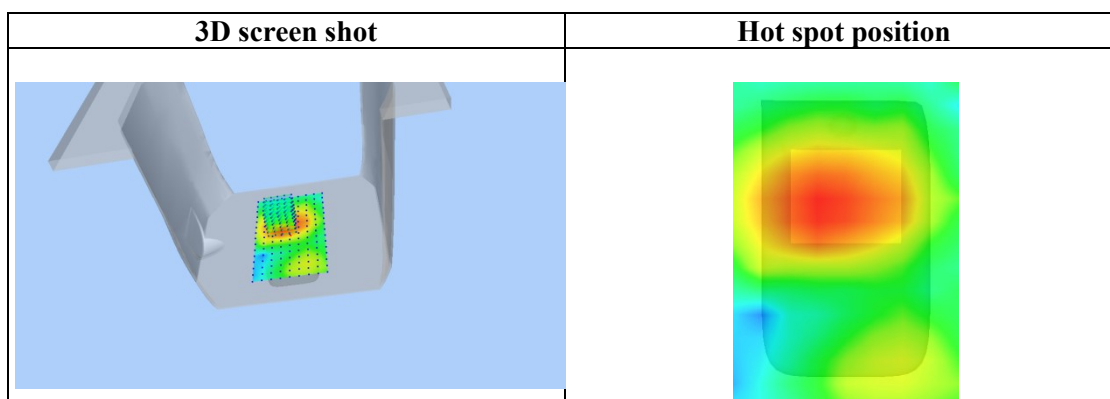
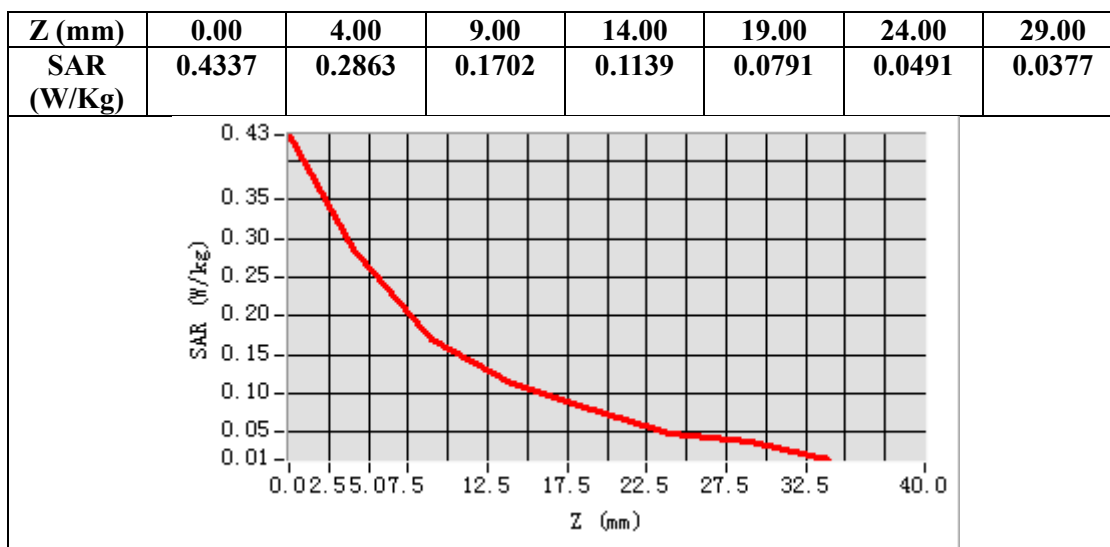
Maximum location: X=-9.00, Y=16.00

SAR Peak: 0.47 W/kg

SAR 10g (W/Kg)	0.168354
SAR 1g (W/Kg)	0.282357

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Test Laboratory: AGC Lab
LTE Band 2 Mid-Body back with all accessories (1 RB#0)
DUT: 4G LTE Network IP Radio; Type: IP-310

Date: Aug. 18, 2025

Communication System: LTE; Communication System Band: LTE Band 2; Duty Cycle:1:1; Conv.F=2.25;
Frequency:1880MHz; Medium parameters used: $f = 1900$ MHz; $\sigma = 1.40$ mho/m; $\epsilon_r = 39.67$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section

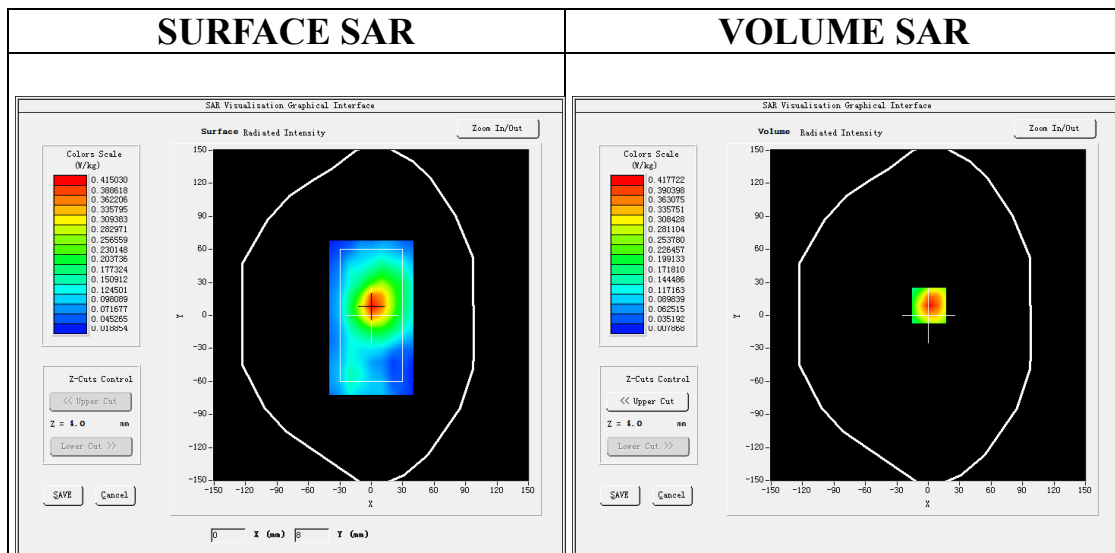
SATIMO Configuration:

- Probe: SSE2; Calibrated: 2025-05-06; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

Configuration/ LTE Band 2 Mid-Body back with all accessories/Area Scan: Measurement grid: dx=8mm, dy=8mm

Configuration/ LTE Band 2 Mid-Body back with all accessories/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5m;

Area Scan	surf_sam_plan.txt, h= 5.00 mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Body back with all accessories
Band	LTE Band 2
Channels	Middle
Signal	OFDM (Crest factor: 1.0)



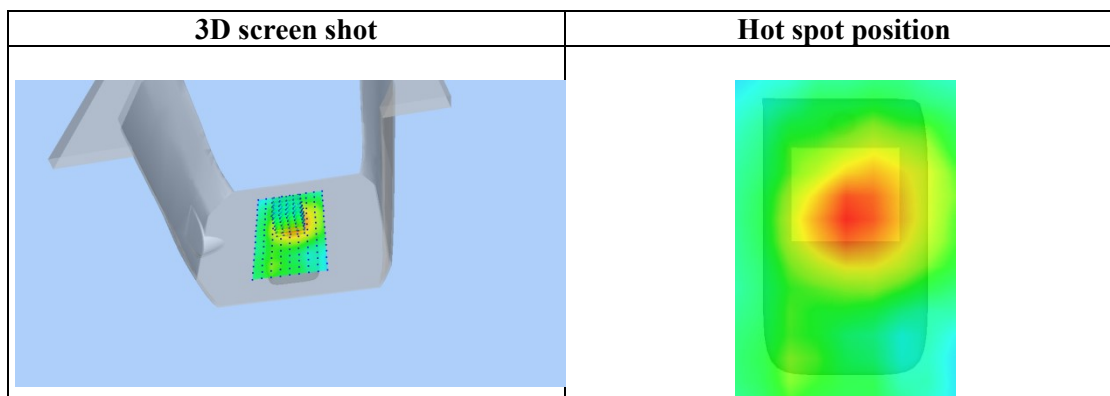
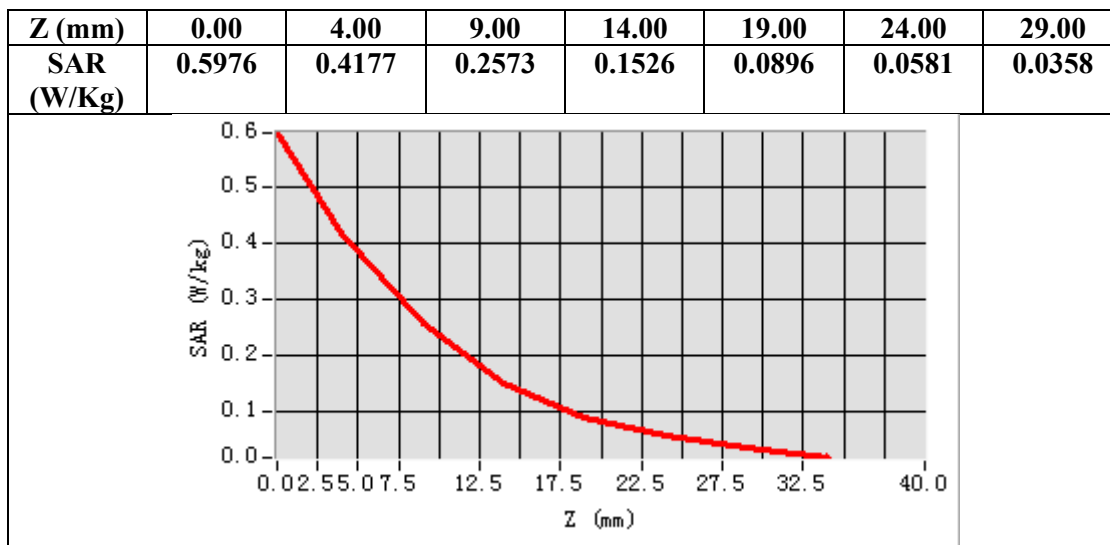
Maximum location: X=1.00, Y=9.00

SAR Peak: 0.60 W/kg

SAR 10g (W/Kg)	0.222552
SAR 1g (W/Kg)	0.389514

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Test Laboratory: AGC Lab
LTE Band 4 Mid-Face up (1 RB#0)
DUT: 4G LTE Network IP Radio; Type: IP-310

Date: Aug. 17, 2025

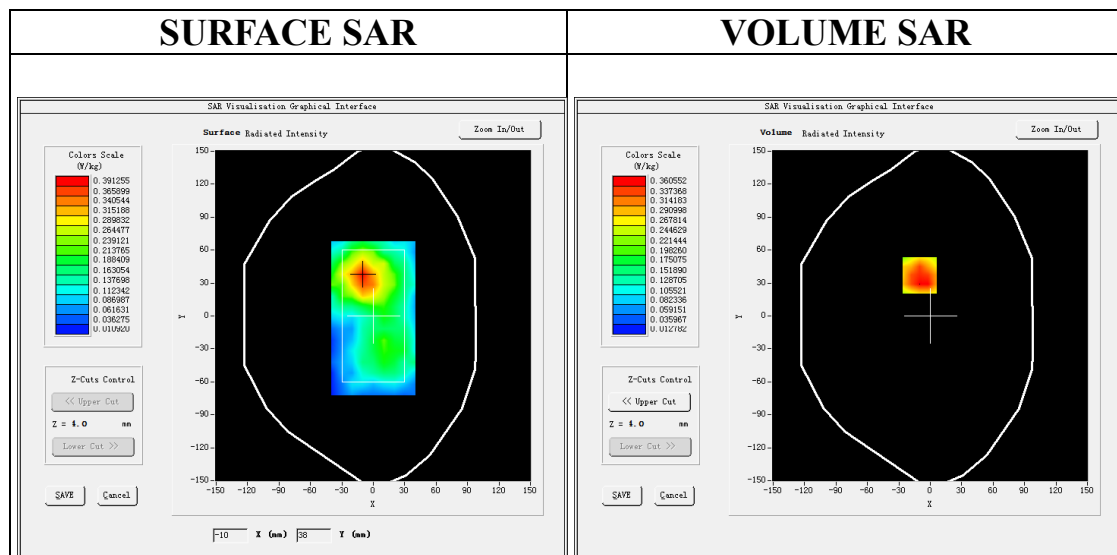
Communication System: LTE; Communication System Band: LTE Band 4; Duty Cycle:1:1; Conv.F=2.28;
Frequency:1732.5 MHz; Medium parameters used: $f = 1750$ MHz; $\sigma = 1.40$ mho/m; $\epsilon_r = 40.12$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section

SATIMO Configuration:

- Probe: SSE2; Calibrated: 2025-05-06; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

Configuration/ LTE Band 4 Mid-Face up/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/ LTE Band 4 Mid-Face up/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm;

Area Scan	surf_sam_plan.txt, h= 5.00 mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Face up
Band	LTE Band 4
Channels	Middle
Signal	OFDM (Crest factor: 1.0)

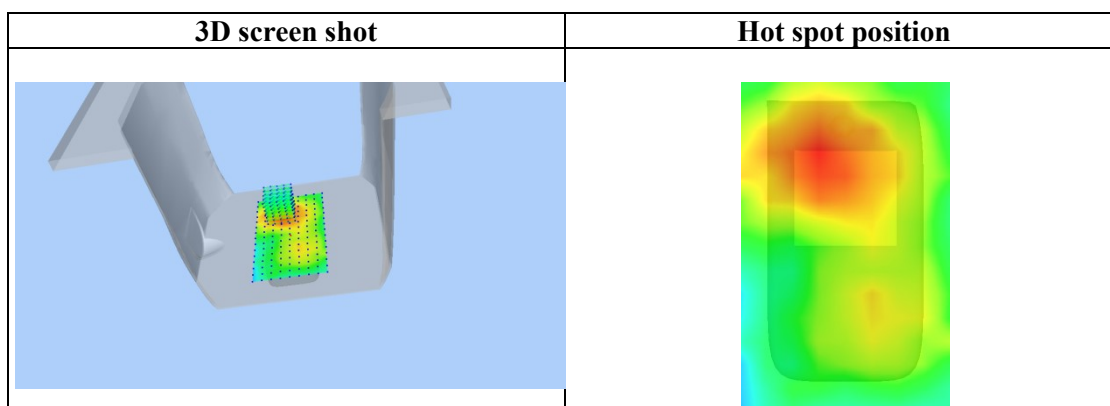
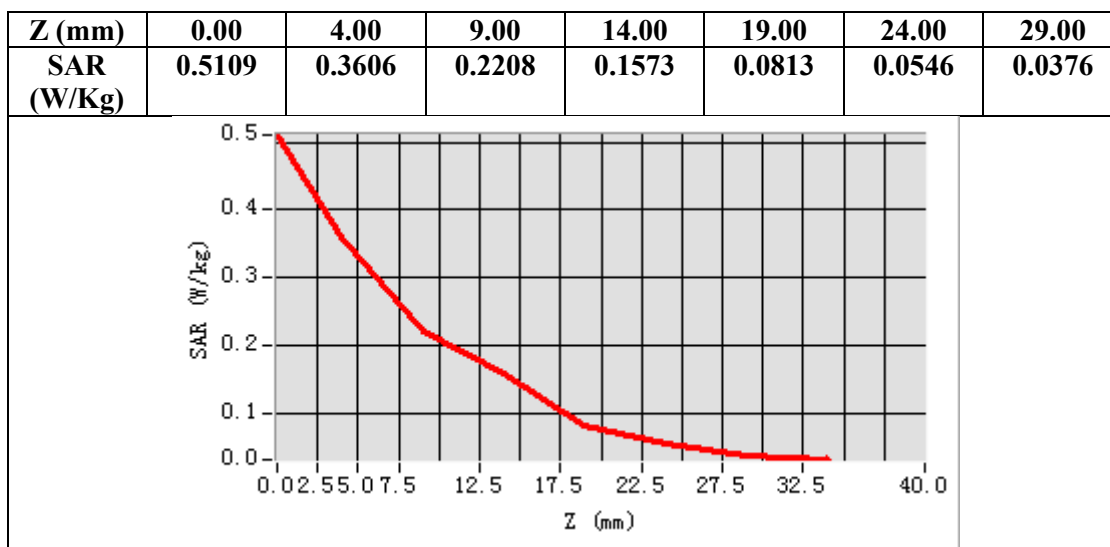


Maximum location: X=-10.00, Y=37.00
SAR Peak: 0.56 W/kg

SAR 10g (W/Kg)	0.210340
SAR 1g (W/Kg)	0.351541

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Test Laboratory: AGC Lab
LTE Band 4 Mid-Body back with all accessories (1 RB#0)
DUT: 4G LTE Network IP Radio; Type: IP-310

Date: Aug. 17, 2025

Communication System: LTE; Communication System Band: LTE Band 4; Duty Cycle:1:1; Conv.F=2.28;
Frequency:1732.5 MHz; Medium parameters used: $f = 1750$ MHz; $\sigma = 1.40$ mho/m; $\epsilon_r = 40.12$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section

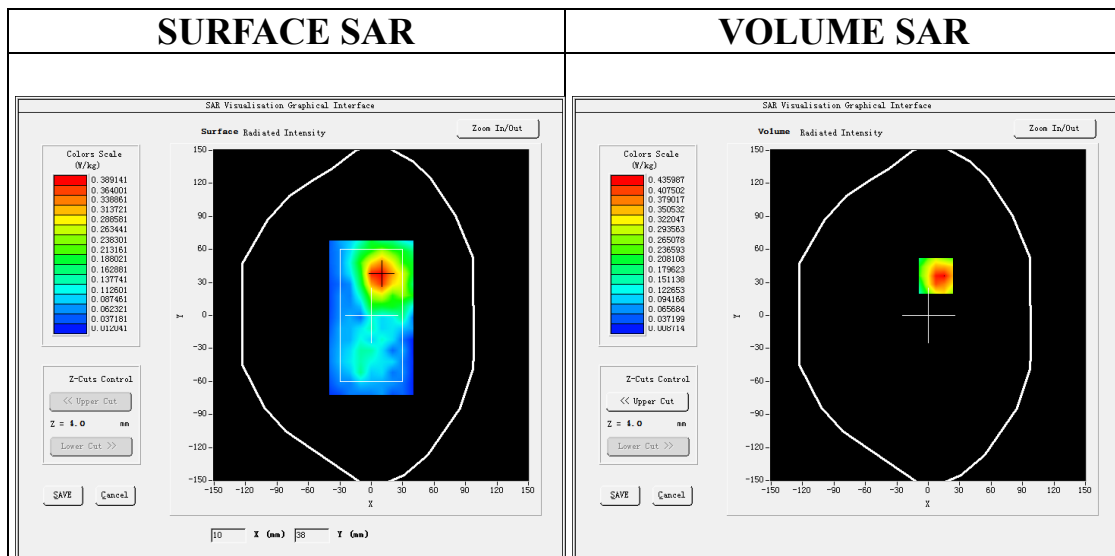
SATIMO Configuration:

- Probe: SSE2; Calibrated: 2025-05-06; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

Configuration/ LTE Band 4 Mid-Body back with all accessories/Area Scan: Measurement grid: dx=8mm, dy=8mm

Configuration/ LTE Band 4 Mid-Body back with all accessories/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm;

Area Scan	surf_sam_plan.txt, h= 5.00 mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Body back with all accessories
Band	LTE Band 4
Channels	Middle
Signal	OFDM (Crest factor: 1.0)



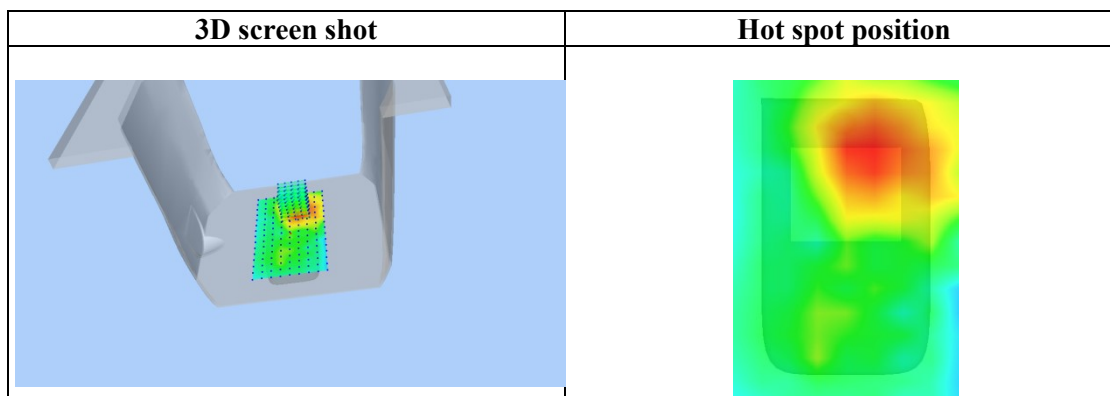
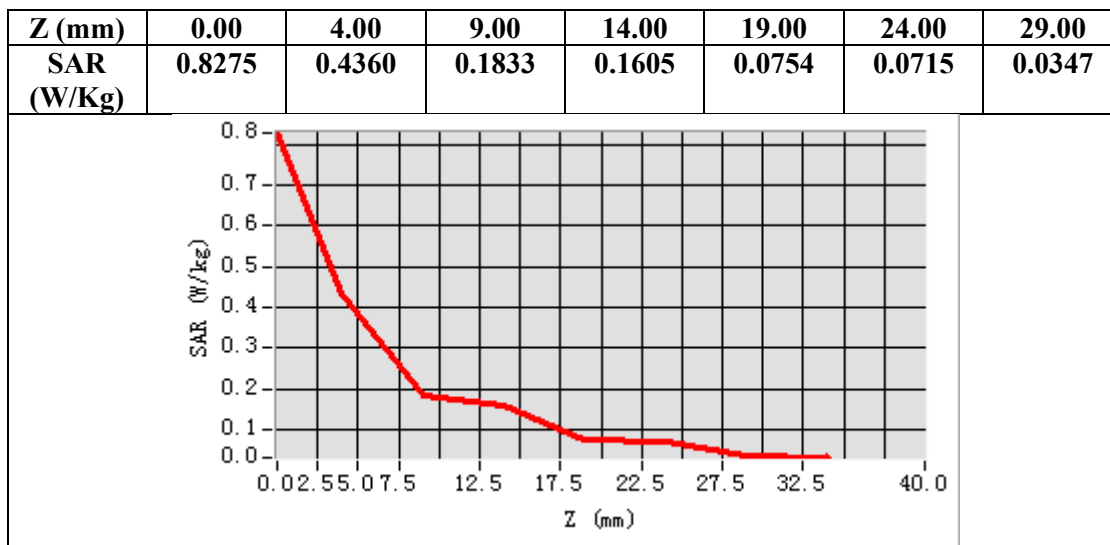
Maximum location: X=7.00, Y=36.00

SAR Peak: 0.76 W/kg

SAR 10g (W/Kg)	0.243416
SAR 1g (W/Kg)	0.432517

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Test Laboratory: AGC Lab
LTE Band 5 Mid-Face up (1 RB#0)
DUT: 4G LTE Network IP Radio; Type: IP-310

Date: Aug. 23, 2025

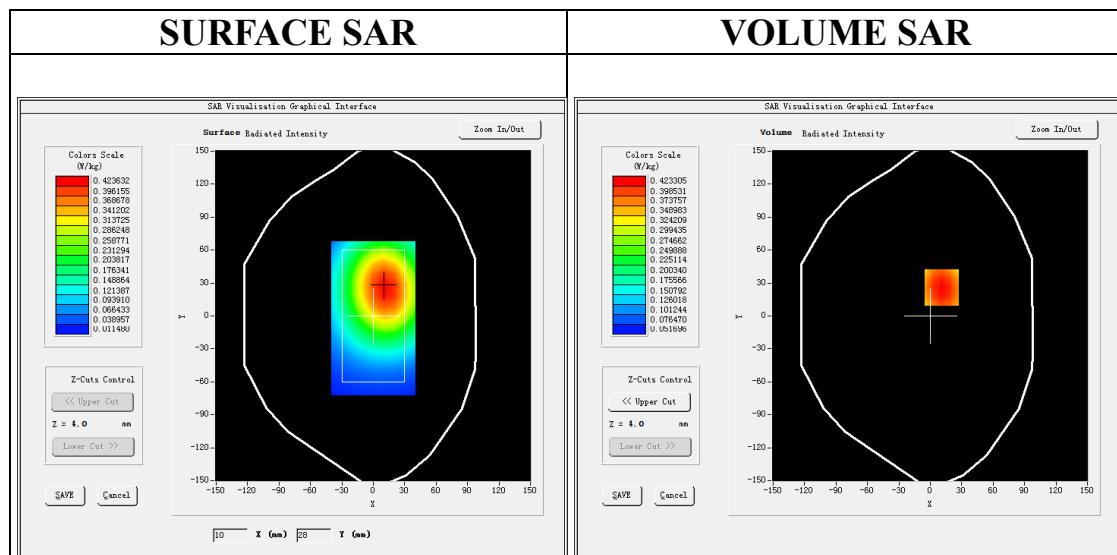
Communication System: LTE; Communication System Band: LTE Band 5; Duty Cycle:1:1; Conv.F=2.23
Frequency:836.5 MHz; Medium parameters used: $f = 835$ MHz; $\sigma=0.92\text{mho/m}$; $\epsilon_r=40.69$; $\rho= 1000$ kg/m³ ;
Phantom section: Flat Section

SATIMO Configuration:

- Probe: SSE2; Calibrated: 2025-05-06; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

Configuration/ LTE Band 5 Mid-Face up/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/ LTE Band 5 Mid-Face up/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm;

Area Scan	surf_sam_plan.txt, h= 5.00 mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Face up
Band	LTE Band 5
Channels	Middle
Signal	OFDM (Crest factor: 1.0)



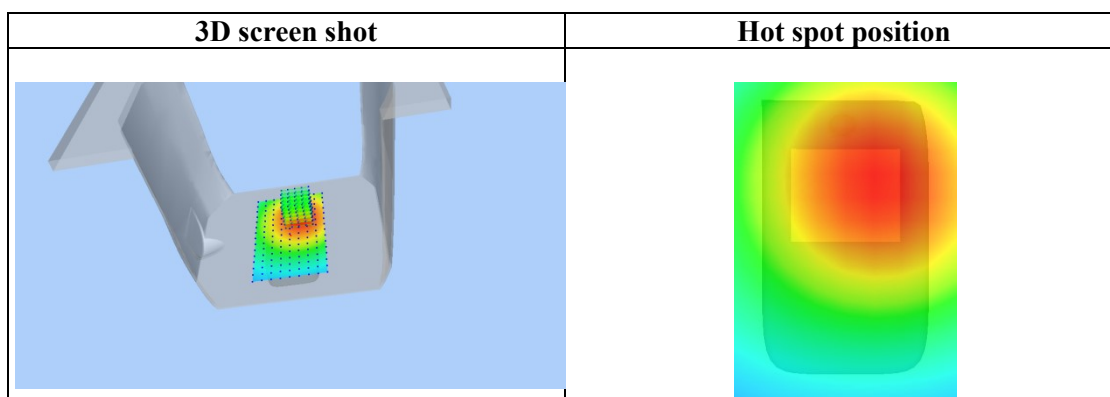
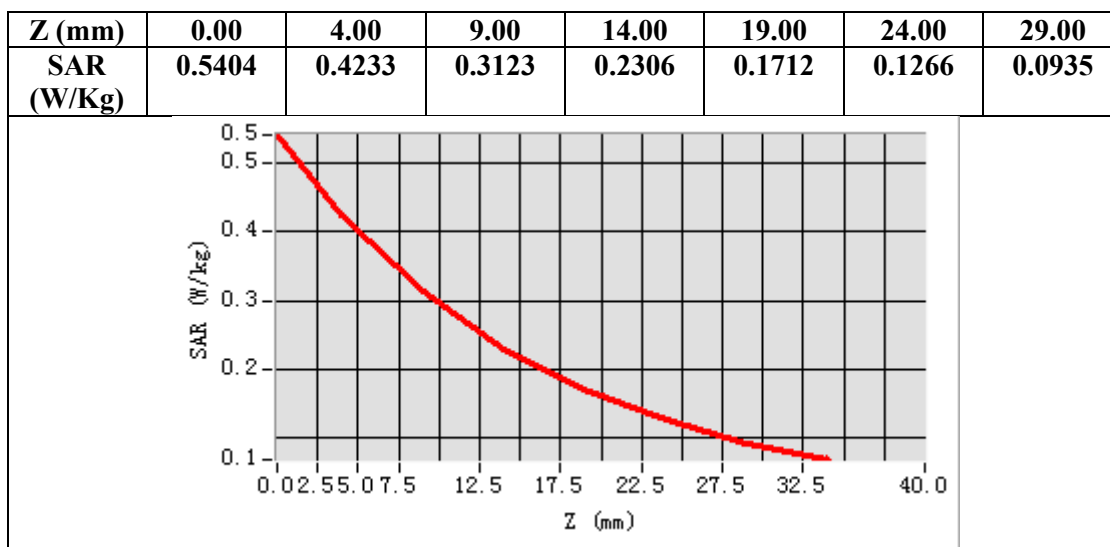
Maximum location: X=11.00, Y=26.00

SAR Peak: 0.54 W/kg

SAR 10g (W/Kg)	0.292262
SAR 1g (W/Kg)	0.410031

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Test Laboratory: AGC Lab
LTE Band 5 Mid-Body back with all accessories (1 RB#0)
DUT: 4G LTE Network IP Radio; Type: IP-310

Date: Aug. 23, 2025

Communication System: LTE; Communication System Band: LTE Band 5; Duty Cycle:1:1; Conv.F=2.23
Frequency:836.5 MHz; Medium parameters used: $f = 835$ MHz; $\sigma = 0.92$ mho/m; $\epsilon_r = 40.69$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section

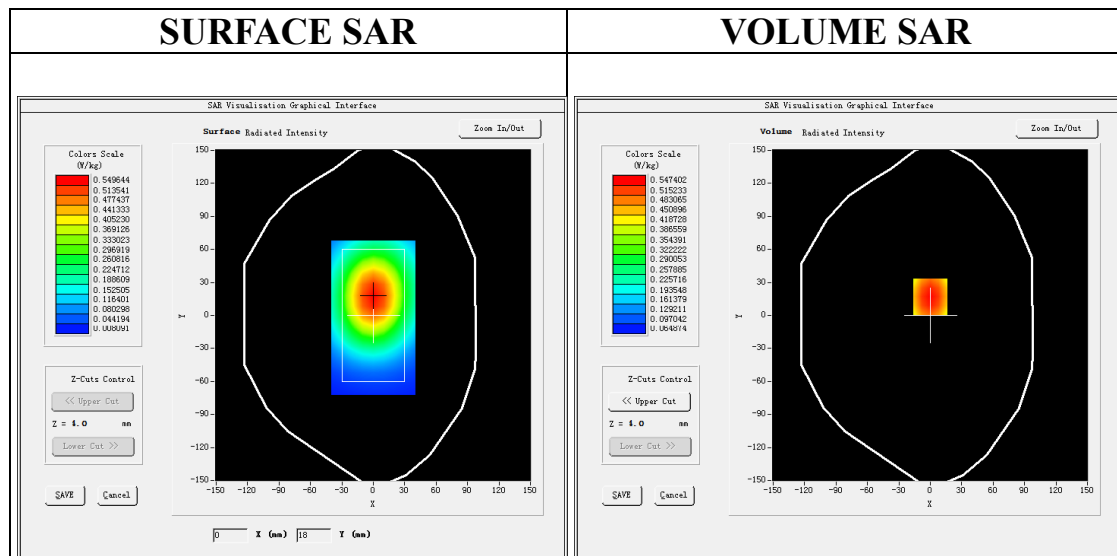
SATIMO Configuration:

- Probe: SSE2; Calibrated: 2025-05-06; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

Configuration/ LTE Band 5 Mid-Body back with all accessories/Area Scan: Measurement grid: dx=8mm, dy=8mm

Configuration/ LTE Band 5 Mid-Body back with all accessories/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm;

Area Scan	surf_sam_plan.txt, h= 5.00 mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Body back with all accessories
Band	LTE Band 5
Channels	Middle
Signal	OFDM (Crest factor: 1.0)



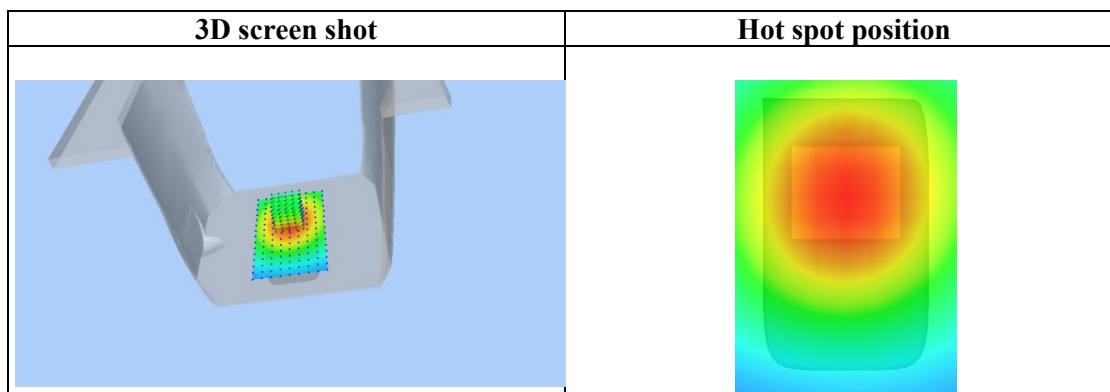
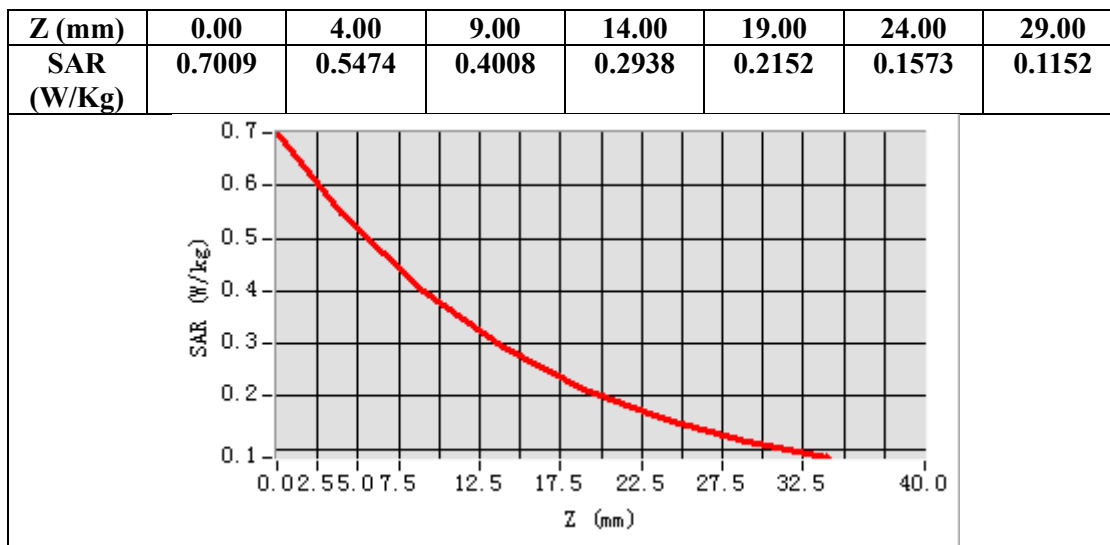
Maximum location: X=0.00, Y=17.00

SAR Peak: 0.70 W/kg

SAR 10g (W/Kg)	0.371493
SAR 1g (W/Kg)	0.528492

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Test Laboratory: AGC Lab
LTE Band 7 Mid-Face up (1RB#0)
DUT: 4G LTE Network IP Radio; Type: IP-310

Date: Aug. 20, 2025

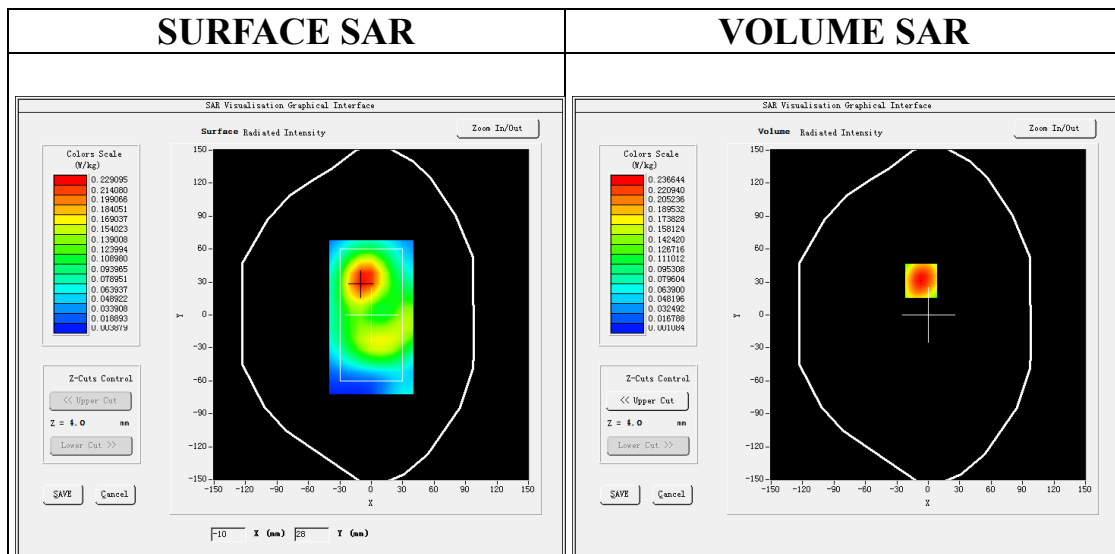
Communication System: LTE; Communication System Band: LTE Band 7; Duty Cycle:1:1; Conv.F=2.19
Frequency: 2535MHz; Medium parameters used: $f = 2600$ MHz; $\sigma = 1.86$ mho/m; $\epsilon_r = 39.66$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section

SATIMO Configuration:

- Probe: SSE2; Calibrated: 2025-05-06; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

Configuration/ LTE BAND 7 Mid-Face up /Area Scan: Measurement grid: dx=10mm, y=10mm
Configuration/ LTE BAND 7 Mid-Face up /Zoom Scan: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Area Scan	surf_sam_plan.txt, h= 5.00 mm
ZoomScan	7x7x7,dx=5mm dy=5mm dz=5mm
Phantom	Validation plane
Device Position	Face up
Band	LTE BAND 7
Channels	Middle
Signal	OFDM (Crest factor: 1.0)



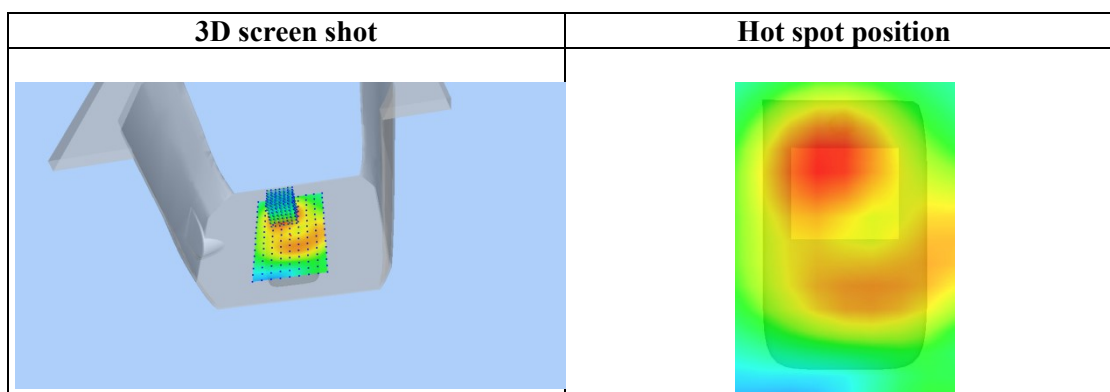
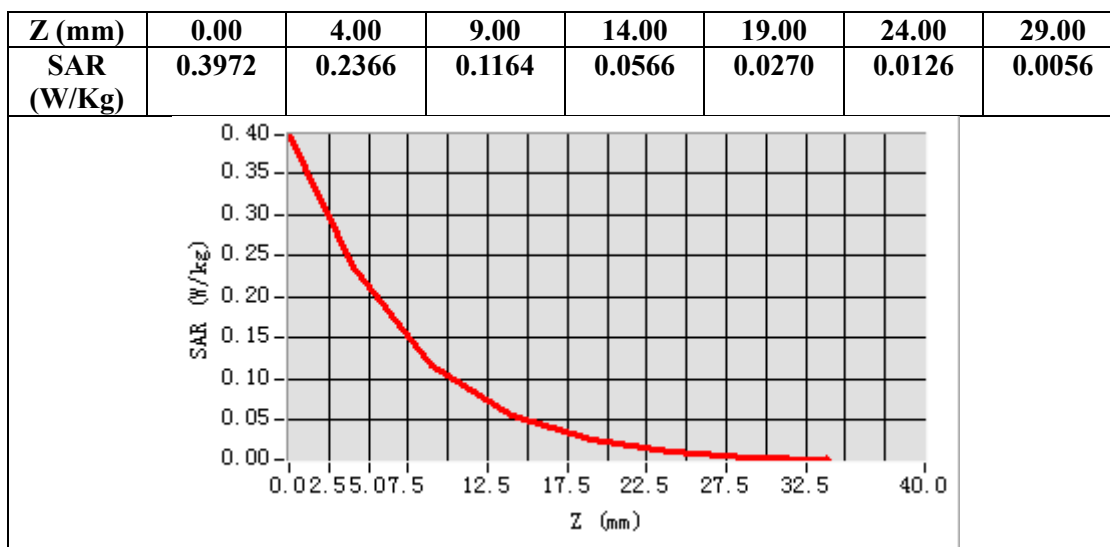
Maximum location: X=-7.00, Y=31.00

SAR Peak: 0.39 W/kg

SAR 10g (W/Kg)	0.119883
SAR 1g (W/Kg)	0.227047

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Test Laboratory: AGC Lab
LTE Band 7 Mid-Body back with all accessories (1RB#0)
DUT: 4G LTE Network IP Radio; Type: IP-310

Date: Aug. 20, 2025

Communication System: LTE; Communication System Band: LTE Band 7; Duty Cycle:1:1; Conv.F=2.19
Frequency: 2535MHz; Medium parameters used: $f = 2600$ MHz; $\sigma = 1.86$ mho/m; $\epsilon_r = 39.66$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section

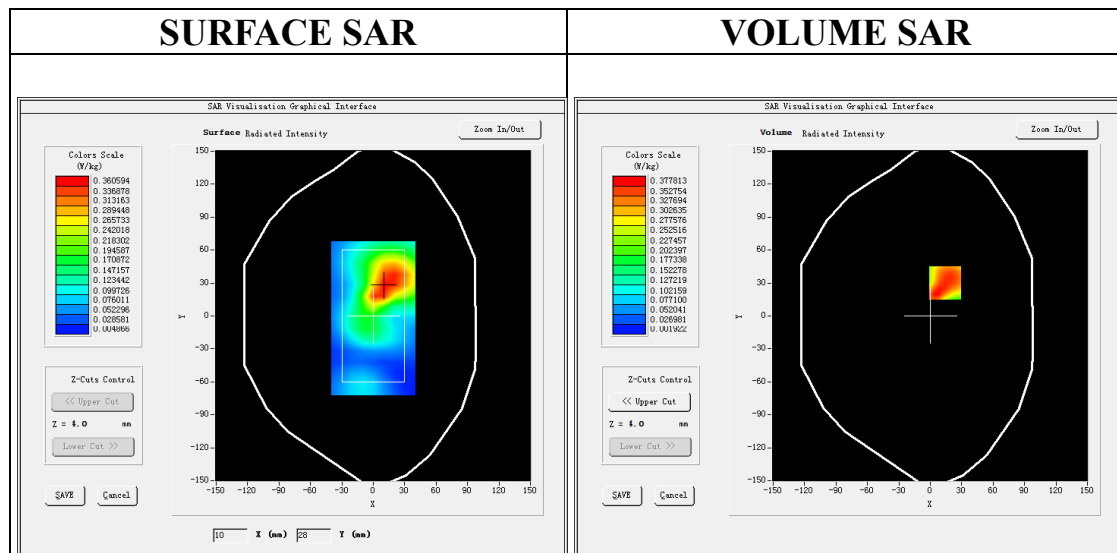
SATIMO Configuration:

- Probe: SSE2; Calibrated: 2025-05-06; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

Configuration/ LTE BAND 7 Mid-Body back with all accessories /Area Scan: Measurement grid: dx=10mm, y=10mm

Configuration/ LTE BAND 7 Mid-Body back with all accessories /Zoom Scan: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Area Scan	surf_sam_plan.txt, h= 5.00 mm
ZoomScan	7x7x7,dx=5mm dy=5mm dz=5mm
Phantom	Validation plane
Device Position	Body back with all accessories
Band	LTE BAND 7
Channels	Middle
Signal	OFDM (Crest factor: 1.0)

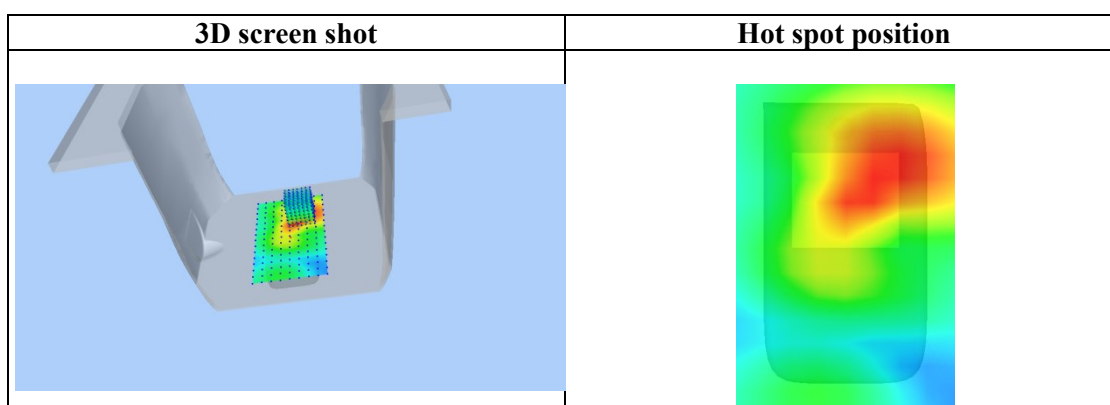
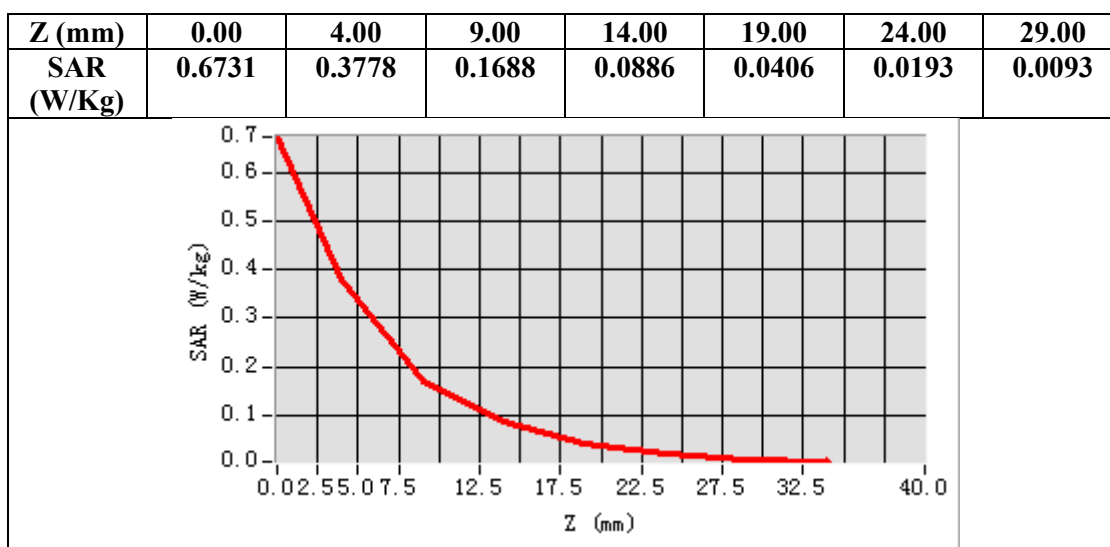


Maximum location: X=14.00, Y=30.00
SAR Peak: 0.65 W/kg

SAR 10g (W/Kg)	0.185705
SAR 1g (W/Kg)	0.357627

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Test Laboratory: AGC Lab
LTE Band 12 Mid-Face up (1 RB#0)
DUT: 4G LTE Network IP Radio; Type: IP-310

Date: Aug. 22, 2025

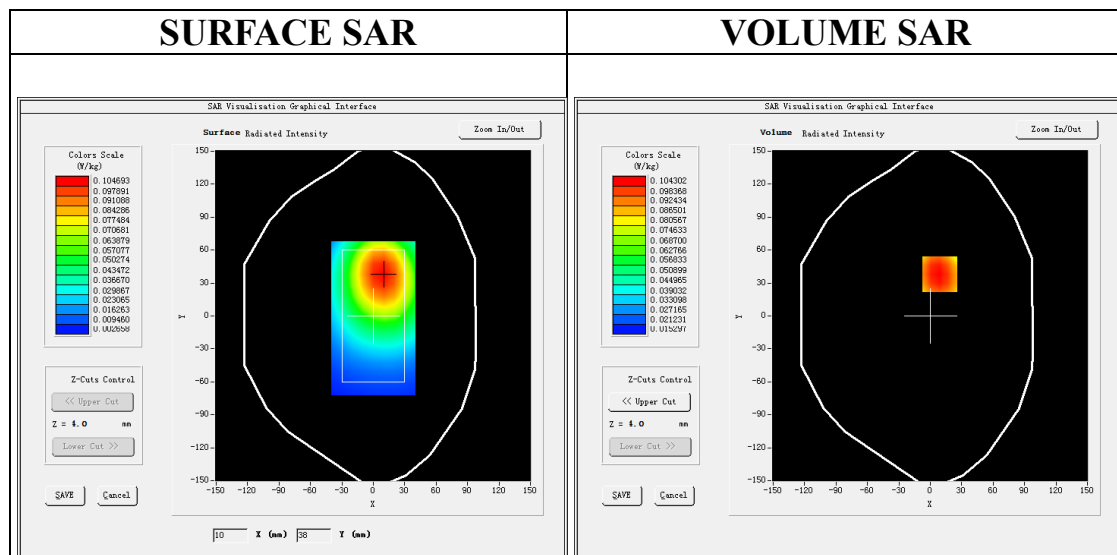
Communication System: LTE; Communication System Band: LTE Band 12; Duty Cycle:1:1; Conv.F=2.30;
Frequency: 707.5 MHz; Medium parameters used: $f = 750$ MHz; $\sigma = 0.88$ mho/m; $\epsilon_r = 43.21$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section

SATIMO Configuration:

- Probe: SSE2; Calibrated: 2025-05-06; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

Configuration/ LTE Band 12 Mid-Face up/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/ LTE Band 12 Mid-Face up/Zoom Scan: Measurement grid: dx=8mm, dy=8mm, dz=5mm;

Area Scan	surf_sam_plan.txt, h= 5.00 mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Face up
Band	LTE Band 12
Channels	Middle
Signal	OFDM (Crest factor: 1.0)



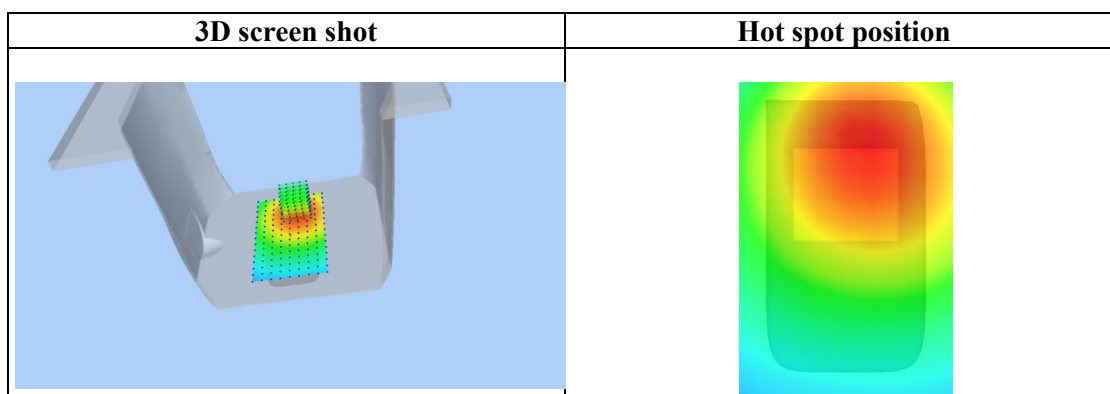
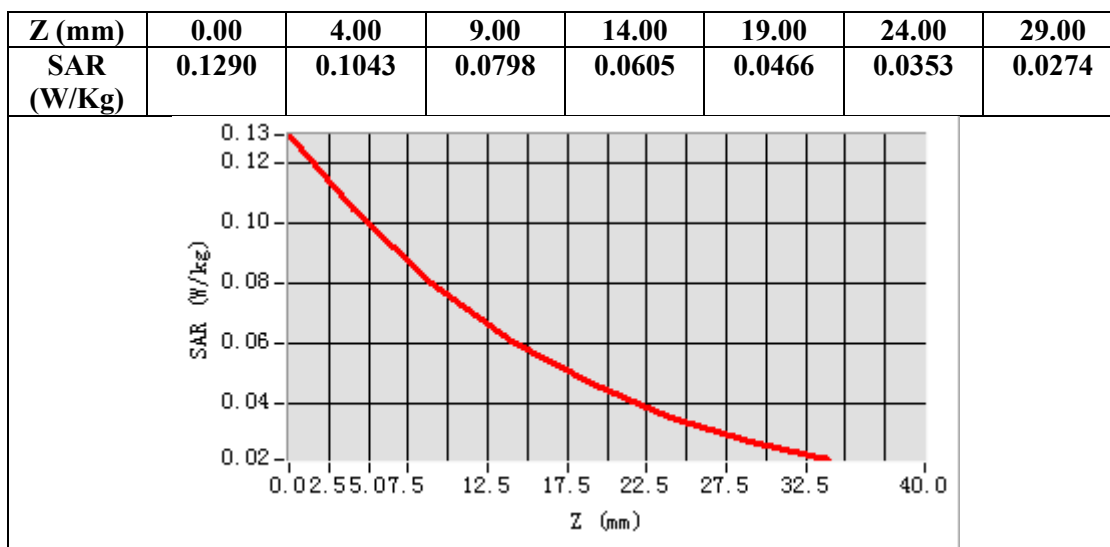
Maximum location: X=9.00, Y=38.00

SAR Peak: 0.13 W/kg

SAR 10g (W/Kg)	0.075298
SAR 1g (W/Kg)	0.103035

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Test Laboratory: AGC Lab
LTE Band 12 Mid-Body back with all accessories (1 RB#0)
DUT: 4G LTE Network IP Radio; Type: IP-310

Date: Aug. 22, 2025

Communication System: LTE; Communication System Band: LTE Band 12; Duty Cycle:1:1; Conv.F=2.30;
Frequency: 707.5 MHz; Medium parameters used: $f = 750$ MHz; $\sigma = 0.88$ mho/m; $\epsilon_r = 43.21$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section

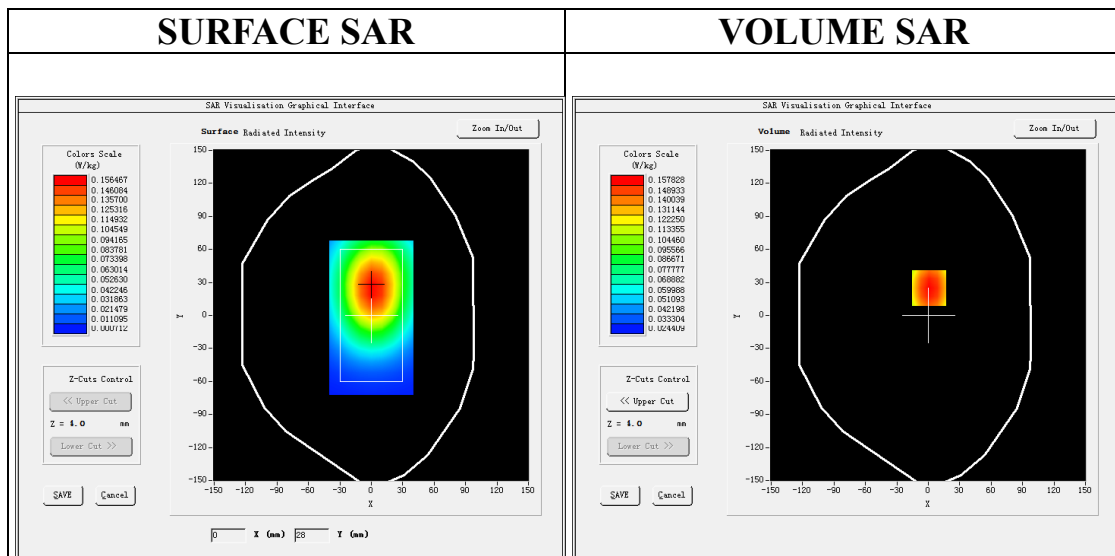
SATIMO Configuration:

- Probe: SSE2; Calibrated: 2025-05-06; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

Configuration/ LTE Band 12 Mid-Body back with all accessories/Area Scan: Measurement grid: dx=8mm, dy=8mm

Configuration/ LTE Band 12 Mid-Body back with all accessories/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm;

Area Scan	surf_sam_plan.txt, h= 5.00 mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Body back with all accessories
Band	LTE Band 12
Channels	Middle
Signal	OFDM (Crest factor: 1.0)



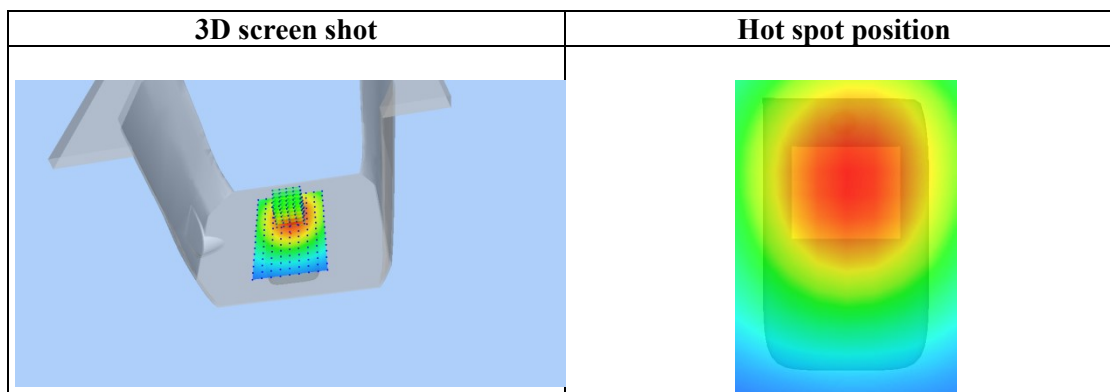
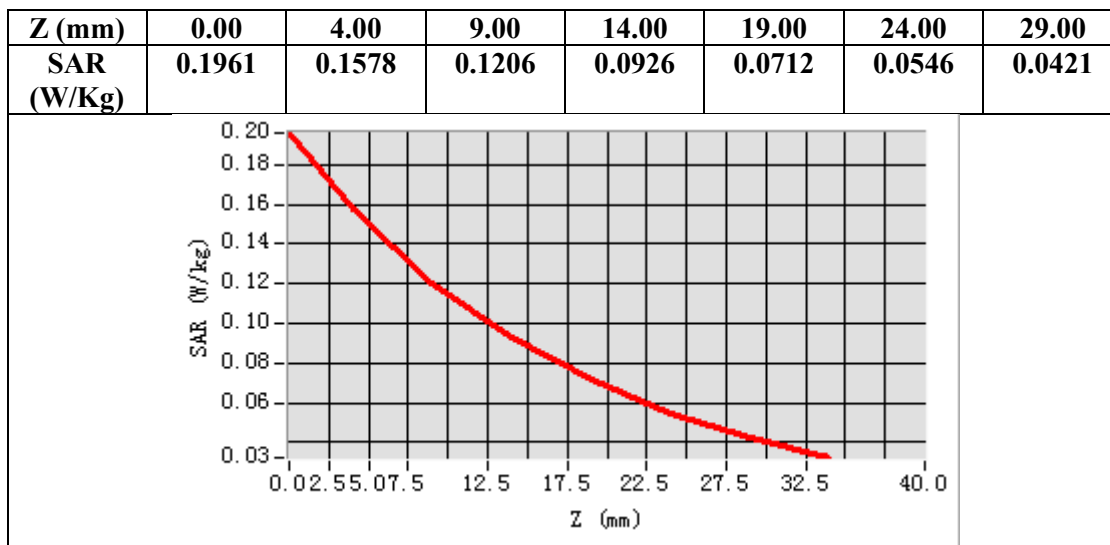
Maximum location: X=1.00, Y=25.00

SAR Peak: 0.20 W/kg

SAR 10g (W/Kg)	0.113633
SAR 1g (W/Kg)	0.155910

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Test Laboratory: AGC Lab
LTE Band 17 Mid-Face up (1 RB#0)
DUT: 4G LTE Network IP Radio; Type: IP-310

Date: Aug. 22, 2025

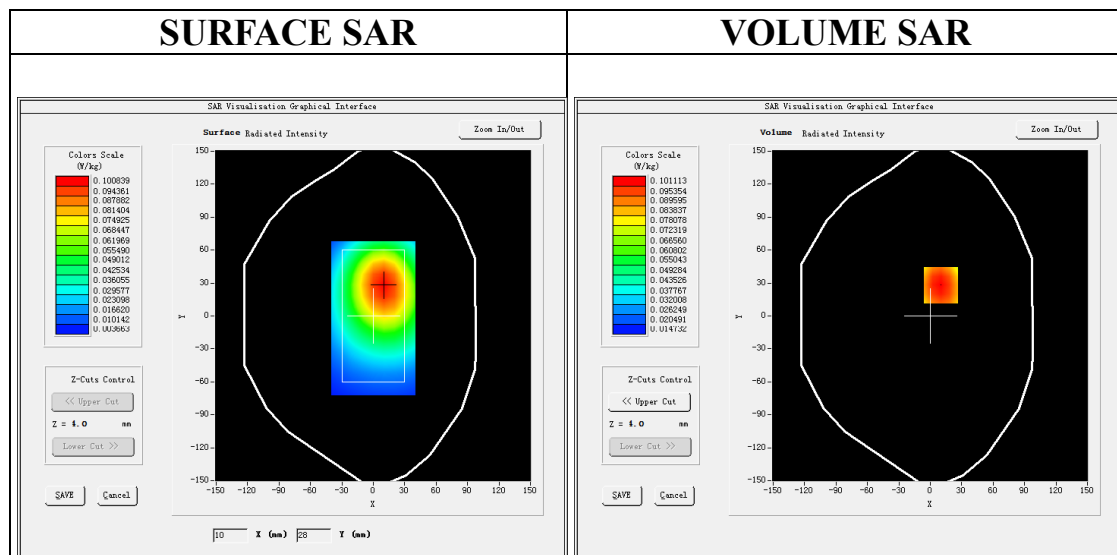
Communication System: LTE; Communication System Band: LTE Band 17; Duty Cycle:1:1; Conv.F=2.30;
Frequency: 710 MHz; Medium parameters used: $f = 750$ MHz; $\sigma=0.90$ mho/m; $\epsilon_r=42.64$; $\rho=1000$ kg/m³ ;
Phantom section: Flat Section

SATIMO Configuration:

- Probe: SSE2; Calibrated: 2025-05-06; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

Configuration/ LTE Band 17 Mid-Face up/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/ LTE Band 17 Mid-Face up/Zoom Scan: Measurement grid: dx=8mm, dy=8mm, dz=5mm;

Area Scan	surf_sam_plan.txt, h= 5.00 mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Face up
Band	LTE Band 17
Channels	Middle
Signal	OFDM (Crest factor: 1.0)



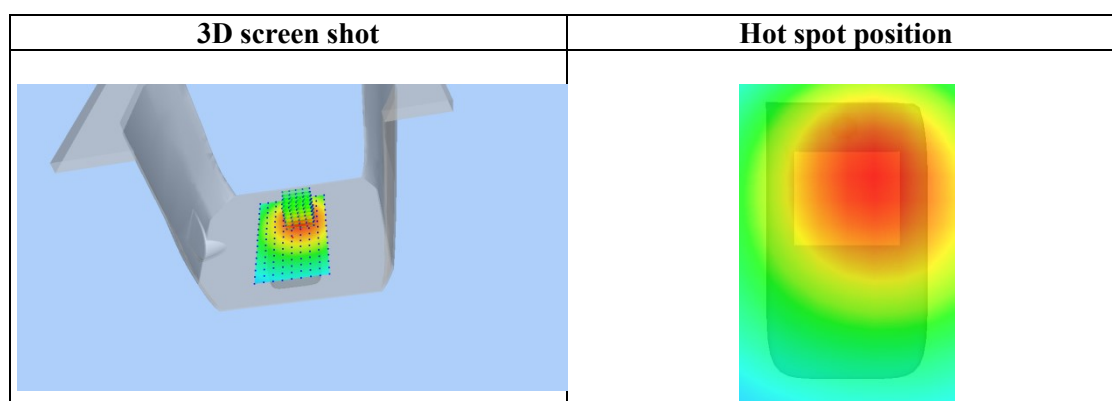
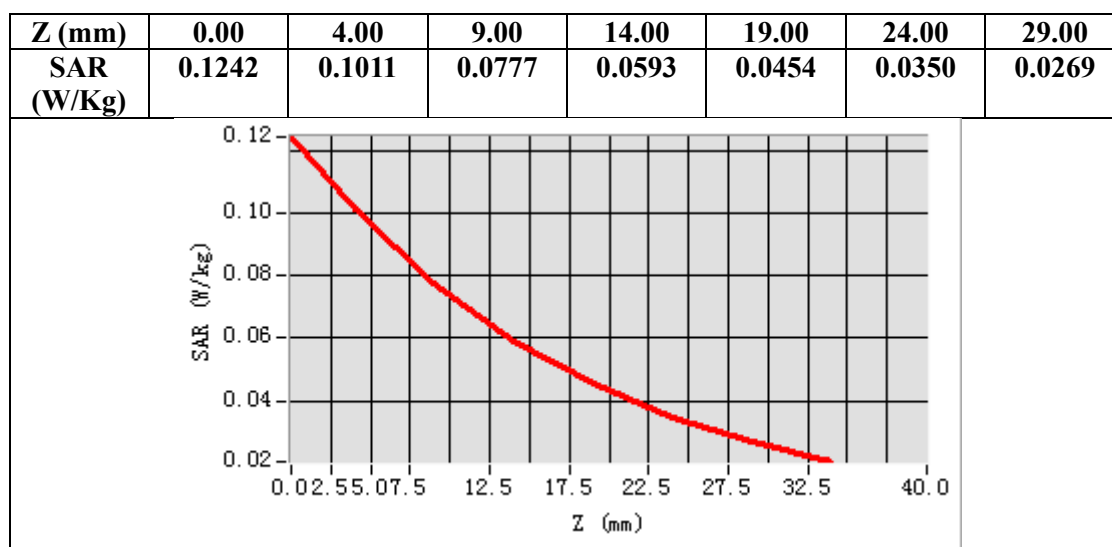
Maximum location: X=10.00, Y=28.00

SAR Peak: 0.13 W/kg

SAR 10g (W/Kg)	0.073070
SAR 1g (W/Kg)	0.099653

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Test Laboratory: AGC Lab
LTE Band 17 Mid-Body back with all accessories (1 RB#0)
DUT: 4G LTE Network IP Radio; Type: IP-310

Date: Aug. 22, 2025

Communication System: LTE; Communication System Band: LTE Band 17; Duty Cycle:1:1; Conv.F=2.30;
Frequency: 710 MHz; Medium parameters used: $f = 750$ MHz; $\sigma=0.90$ mho/m; $\epsilon_r=42.64$; $\rho=1000$ kg/m³ ;
Phantom section: Flat Section

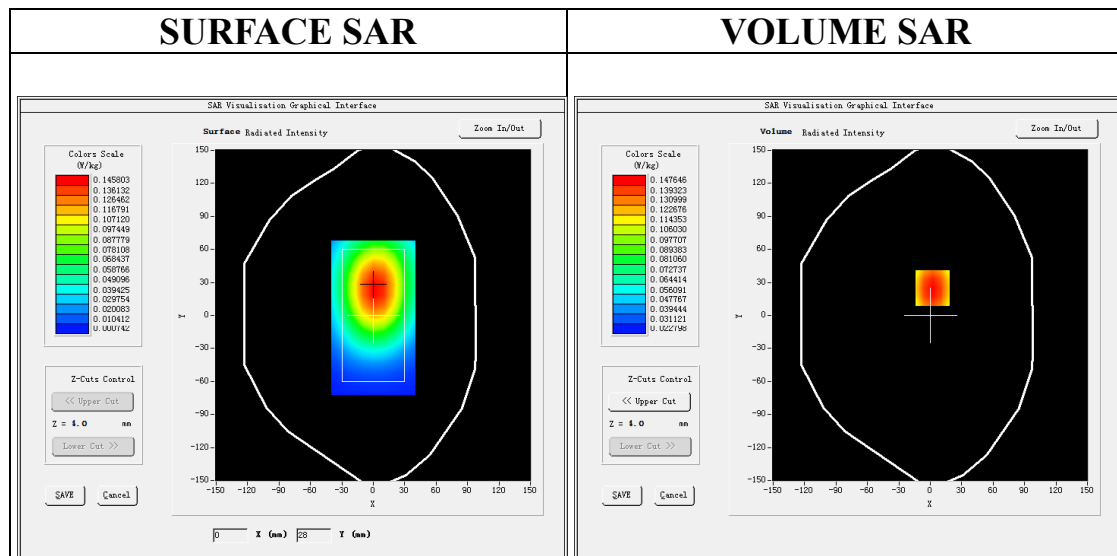
SATIMO Configuration:

- Probe: SSE2; Calibrated: 2025-05-06; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

Configuration/ LTE Band 17 Mid-Body back with all accessories/Area Scan: Measurement grid: dx=8mm, dy=8mm

Configuration/ LTE Band 17 Mid-Body back with all accessories/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm;

Area Scan	surf_sam_plan.txt, h= 5.00 mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Body back with all accessories
Band	LTE Band 17
Channels	Middle
Signal	OFDM (Crest factor: 1.0)



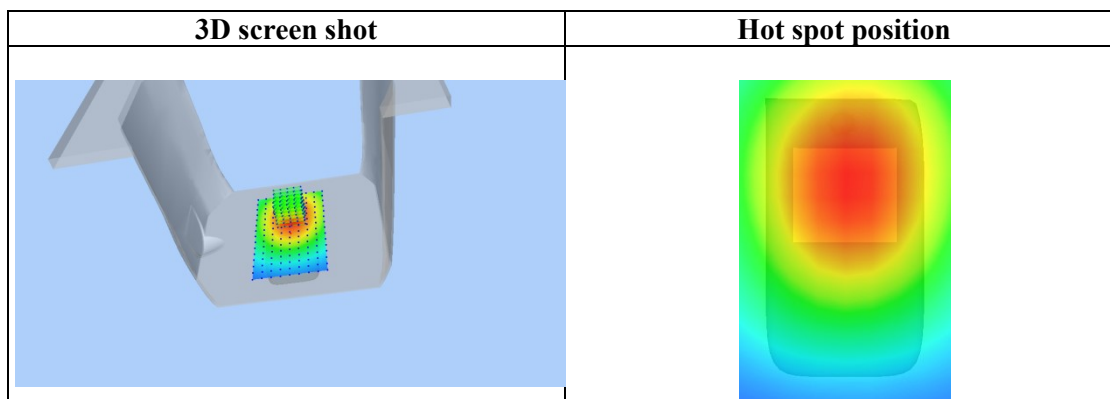
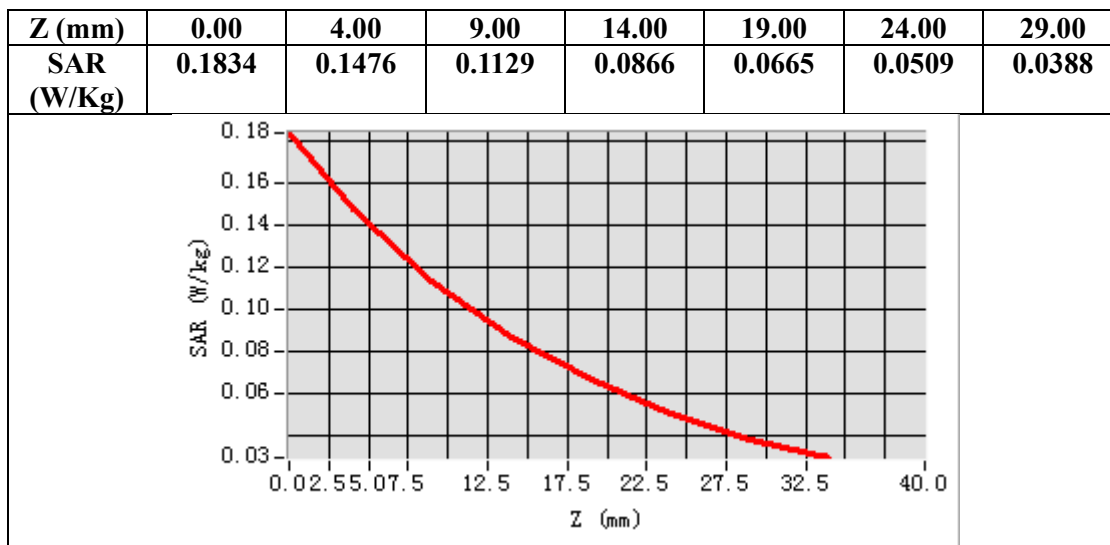
Maximum location: X=2.00, Y=25.00

SAR Peak: 0.18 W/kg

SAR 10g (W/Kg)	0.106140
SAR 1g (W/Kg)	0.145798

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Test Laboratory: AGC Lab
LTE Band 38 Mid-Face up (1RB#0)
DUT: 4G LTE Network IP Radio; **Type:** IP-310

Date: Aug. 20, 2025

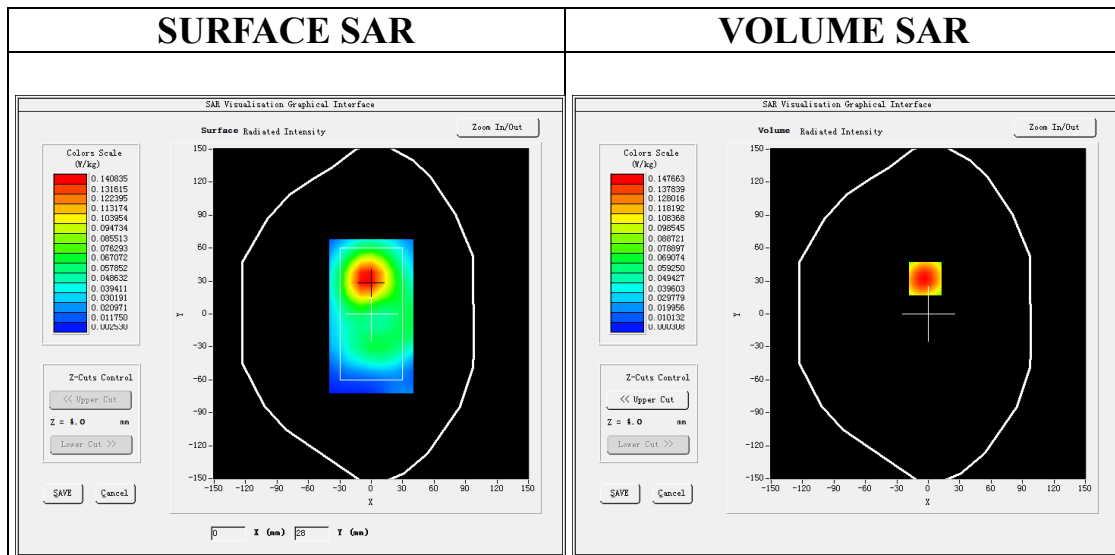
Communication System: LTE; Communication System Band: LTE Band 38; Duty Cycle:1:1.58; Conv.F=2.19
Frequency: 2595MHz; Medium parameters used: $f = 2600$ MHz; $\sigma = 1.89$ mho/m; $\epsilon_r = 38.71$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section

SATIMO Configuration:

- Probe: SSE2; Calibrated: 2025-05-06; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

Configuration/ LTE BAND 38 Mid-Face up /Area Scan: Measurement grid: dx=10mm, y=10mm
Configuration/ LTE BAND 38 Mid-Face up /Zoom Scan: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Area Scan	surf_sam_plan.txt, h= 5.00 mm
ZoomScan	7x7x7,dx=5mm dy=5mm dz=5mm
Phantom	Validation plane
Device Position	Face up
Band	LTE BAND 38
Channels	Middle
Signal	Crest factor: 1.58



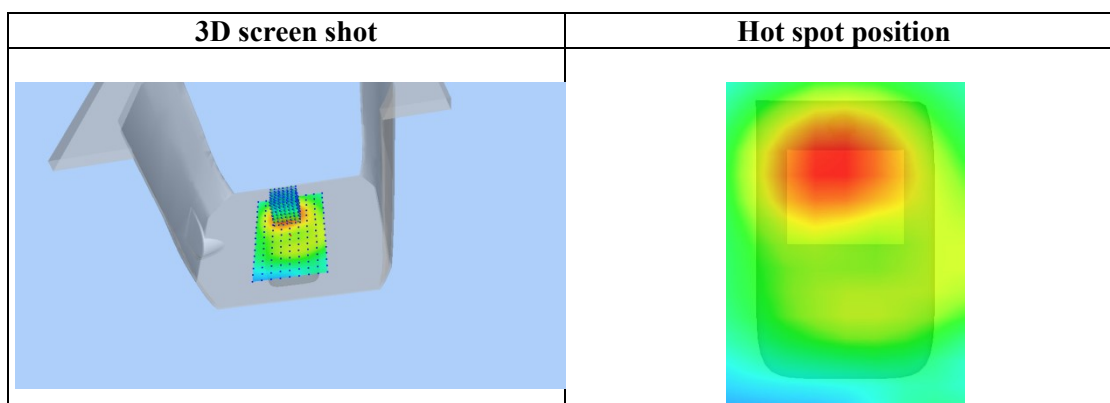
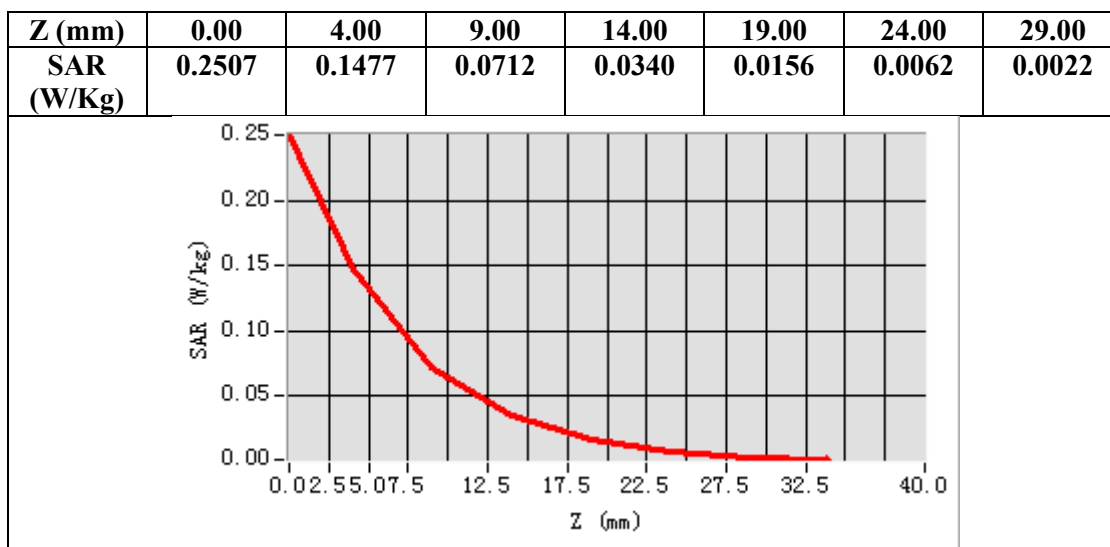
Maximum location: X=-3.00, Y=32.00

SAR Peak: 0.25 W/kg

SAR 10g (W/Kg)	0.074285
SAR 1g (W/Kg)	0.141960

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Test Laboratory: AGC Lab
LTE Band 38 Mid-Body back with all accessories (1RB#0)
DUT: 4G LTE Network IP Radio; Type: IP-310

Date: Aug. 20, 2025

Communication System: LTE; Communication System Band: LTE Band 38; Duty Cycle:1:1.58; Conv.F=2.19
Frequency: 2595MHz; Medium parameters used: $f = 2600$ MHz; $\sigma = 1.89$ mho/m; $\epsilon_r = 38.71$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section

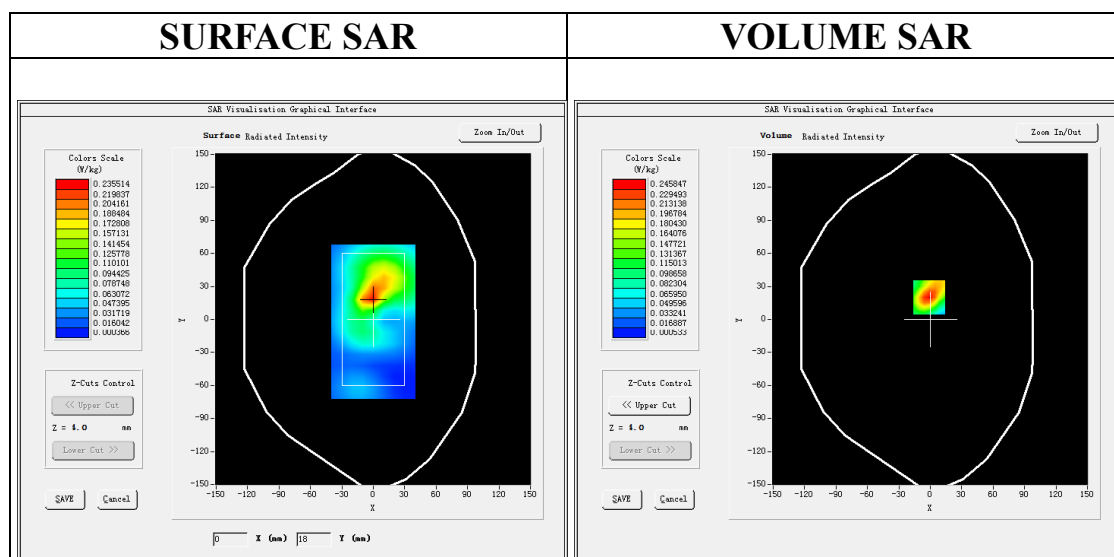
SATIMO Configuration:

- Probe: SSE2; Calibrated: 2025-05-06; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

Configuration/ LTE BAND 38 Mid-Body back with all accessories /Area Scan: Measurement grid: dx=10mm, y=10mm

Configuration/ LTE BAND 38 Mid-Body back with all accessories /Zoom Scan: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Area Scan	surf_sam_plan.txt, h= 5.00 mm
ZoomScan	7x7x7,dx=5mm dy=5mm dz=5mm
Phantom	Validation plane
Device Position	Body back with all accessories
Band	LTE BAND 38
Channels	Middle
Signal	Crest factor: 1.58

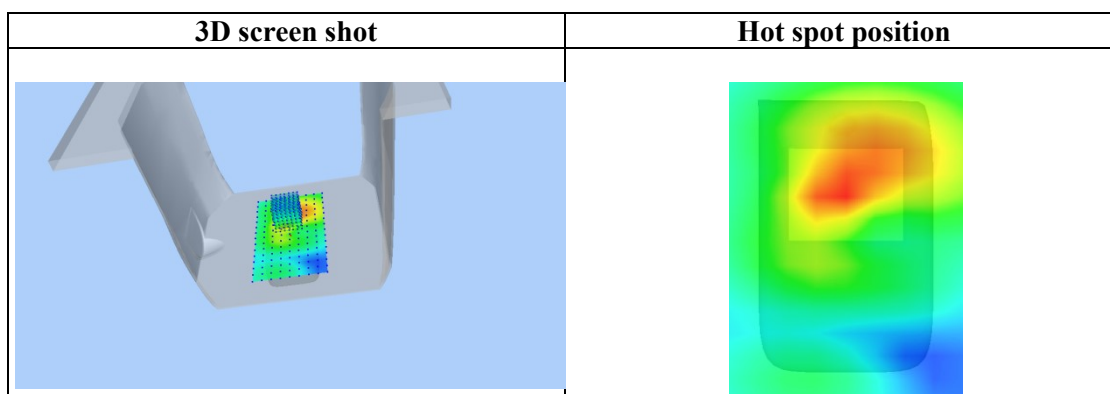
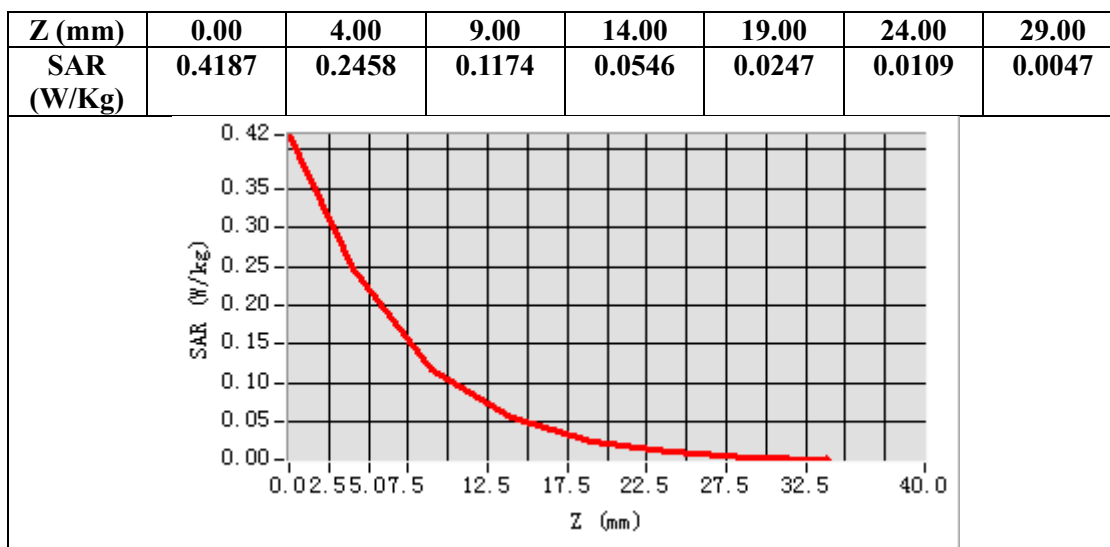


Maximum location: X=-1.00, Y=20.00
SAR Peak: 0.41 W/kg

SAR 10g (W/Kg)	0.107391
SAR 1g (W/Kg)	0.227207

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Test Laboratory: AGC Lab
LTE Band 40- Lower Side Mid- Face up (1 RB#0)
DUT: 4G LTE Network IP Radio; Type: IP-310

Date: Aug. 19, 2025

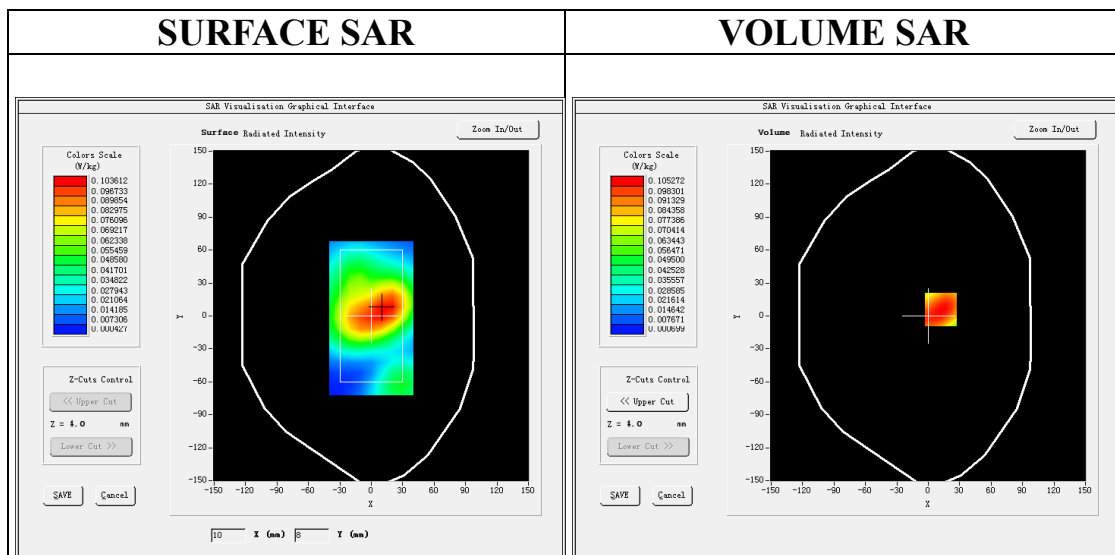
Communication System: LTE; Communication System Band: LTE Band 40-Upper Side; Duty Cycle:1:1.58;
Conv.F=2.37
Frequency: 2310 MHz; Medium parameters used: $f = 2300$ MHz; $\sigma = 1.73$ mho/m; $\epsilon_r = 39.82$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section

SATIMO Configuration:

- Probe: SSE2; Calibrated: 2025-05-06; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

Configuration/ LTE Band 40- Lower Side Mid- Face up /Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/ LTE Band 40- Lower Side Mid- Face up /Zoom Scan: Measurement grid: dx=8mm, dy=8mm, dz=5mm;

Area Scan	surf_sam_plan.txt, h= 5.00 mm
Zoom Scan	7x7x7,dx=5mm dy=5mm dz=5mm
Phantom	Validation plane
Device Position	Face up
Band	LTE Band 40- Lower Side
Channels	Middle
Signal	Crest factor: 1.58

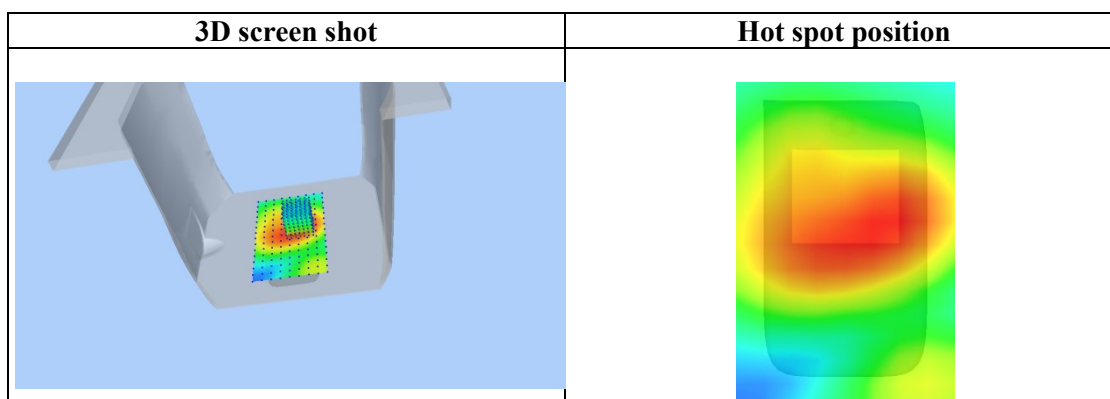
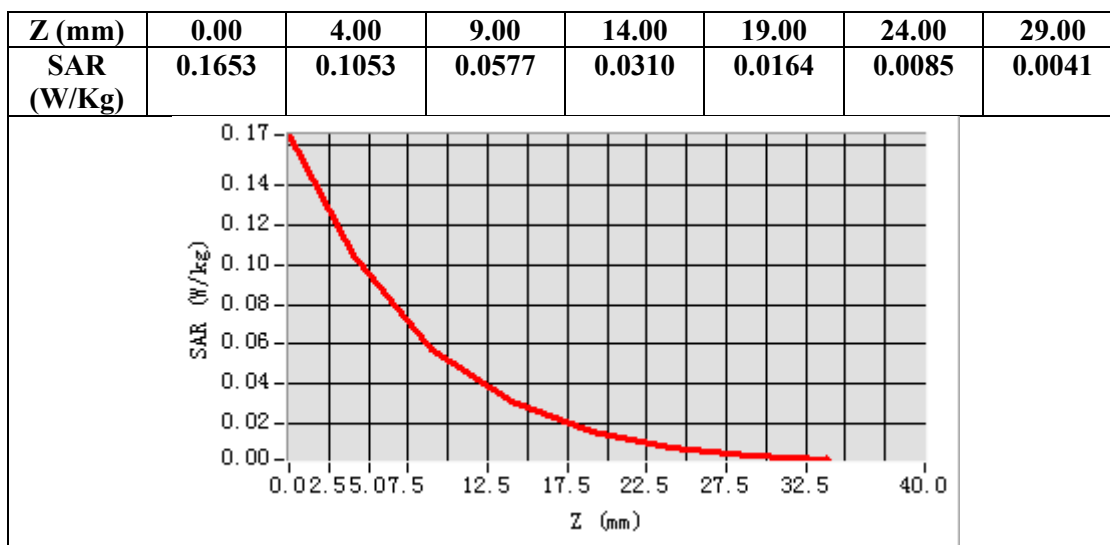


Maximum location: X=12.00, Y=6.00
SAR Peak: 0.16 W/kg

SAR 10g (W/Kg)	0.057610
SAR 1g (W/Kg)	0.101536

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Test Laboratory: AGC Lab
LTE Band 40- Lower Side Mid-Body back with all accessories (1 RB#0)
DUT: 4G LTE Network IP Radio; Type: IP-310

Date: Aug. 19, 2025

Communication System: LTE; Communication System Band: LTE Band 40-Upper Side; Duty Cycle:1:1.58;
Conv.F=2.37
Frequency: 2310 MHz; Medium parameters used: $f = 2300$ MHz; $\sigma = 1.73$ mho/m; $\epsilon_r = 39.82$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section

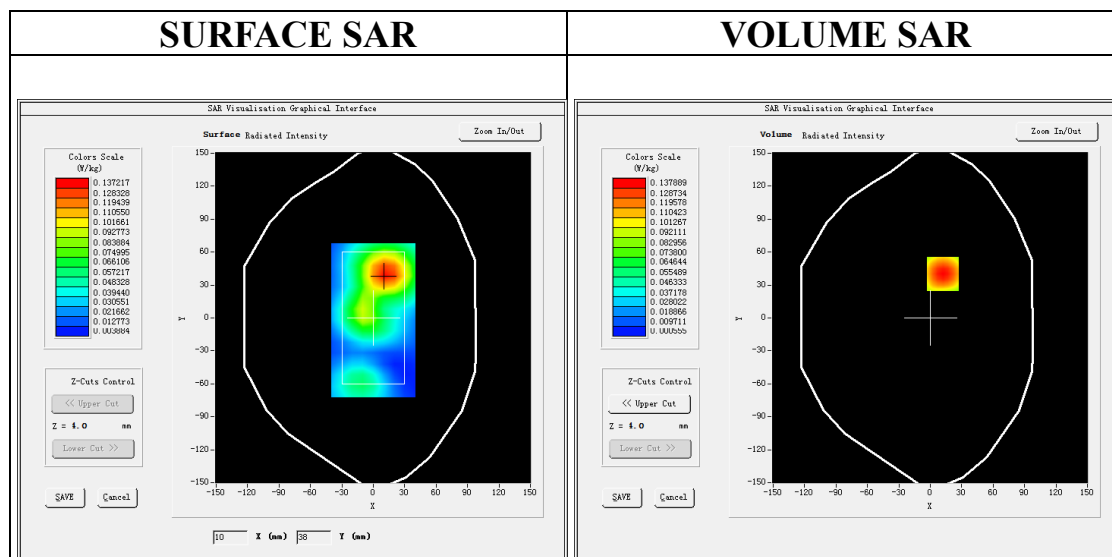
SATIMO Configuration:

- Probe: SSE2; Calibrated: 2025-05-06; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

Configuration/ LTE Band 40- Lower Side Mid-Body back with all accessories/Area Scan: Measurement grid:
dx=8mm, dy=8mm

Configuration/ LTE Band 40- Lower Side Mid-Body back with all accessories/Zoom Scan: Measurement grid:
dx=8mm, dy=8mm, dz=5mm;

Area Scan	surf_sam_plan.txt, h= 5.00 mm
Zoom Scan	7x7x7,dx=5mm dy=5mm dz=5mm
Phantom	Validation plane
Device Position	Body back with all accessories
Band	LTE Band 40- Lower Side
Channels	Middle
Signal	Crest factor: 1.58



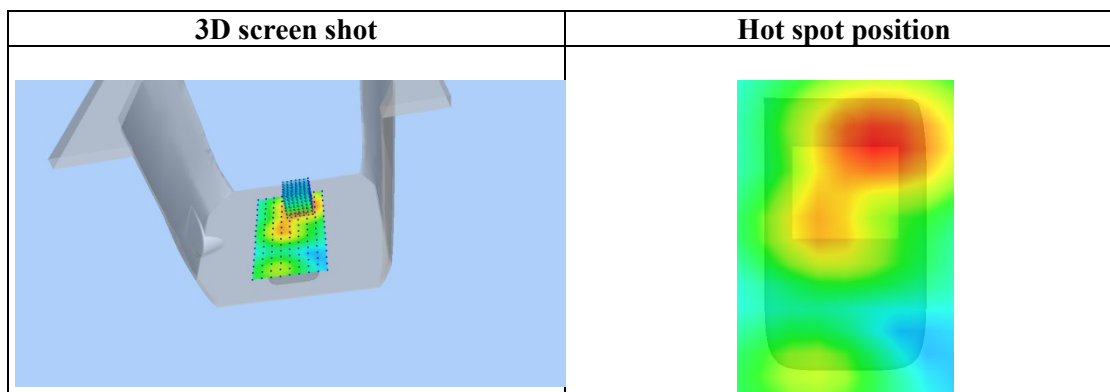
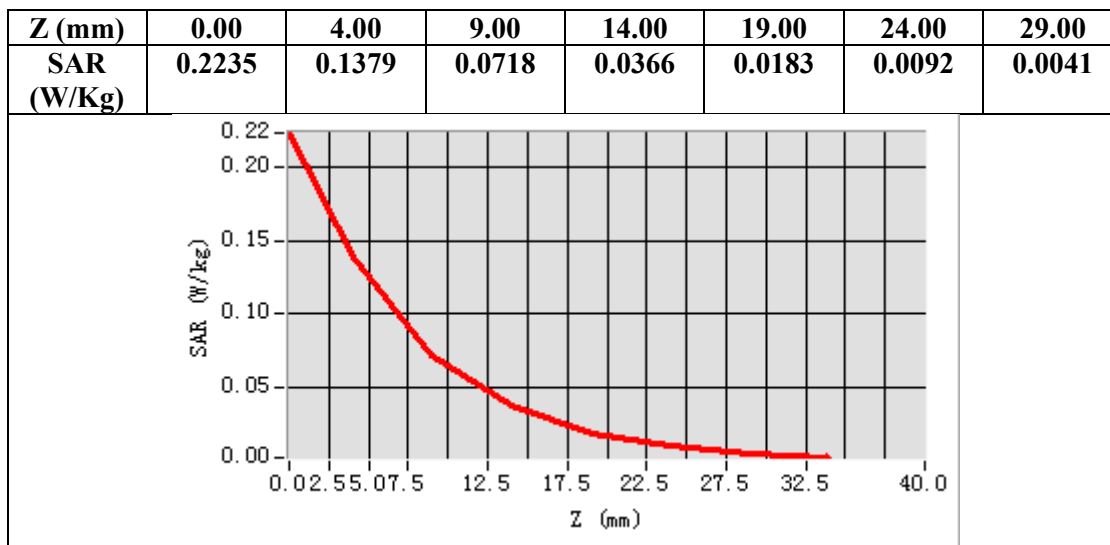
Maximum location: X=12.00, Y=40.00

SAR Peak: 0.22 W/kg

SAR 10g (W/Kg)	0.071735
SAR 1g (W/Kg)	0.131973

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Test Laboratory: AGC Lab
LTE Band 40-Upper Side Mid- Face up (1 RB#0)
DUT: 4G LTE Network IP Radio; Type: IP-310

Date: Aug. 19, 2025

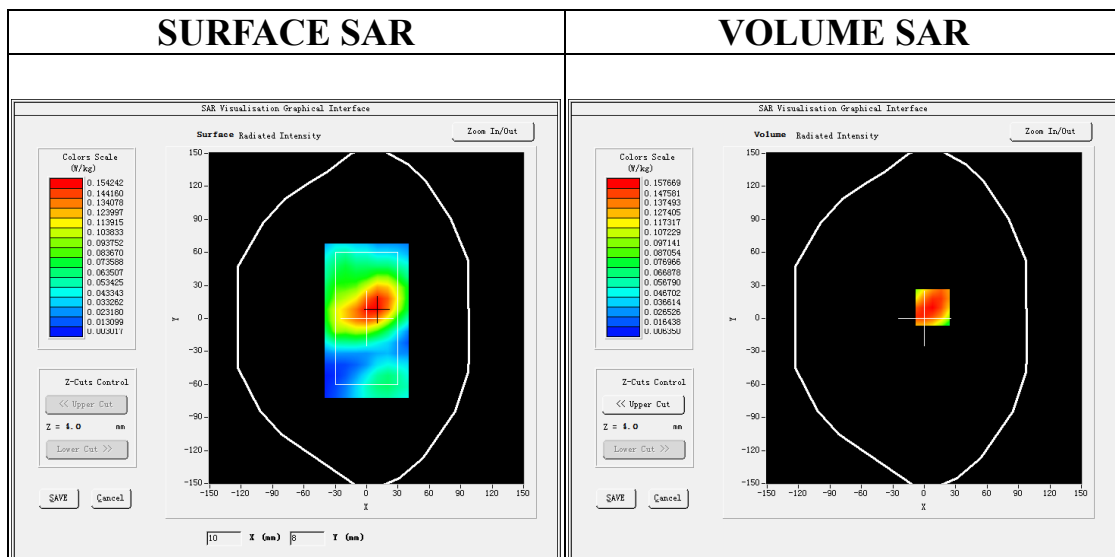
Communication System: LTE; Communication System Band: LTE Band 40-Upper Side; Duty Cycle:1:1.58;
Conv.F=2.37
Frequency: 2355 MHz; Medium parameters used: $f = 2300$ MHz; $\sigma = 1.74$ mho/m; $\epsilon_r = 38.61$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section

SATIMO Configuration:

- Probe: SSE2; Calibrated: 2025-05-06; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

Configuration/ LTE Band 40-Upper Side Mid- Face up /Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/ LTE Band 40-Upper Side Mid- Face up /Zoom Scan: Measurement grid: dx=8mm, dy=8mm, dz=5mm;

Area Scan	surf_sam_plan.txt, h= 5.00 mm
Zoom Scan	7x7x7,dx=5mm dy=5mm dz=5mm
Phantom	Validation plane
Device Position	Face up
Band	LTE Band 40-Upper Side
Channels	Middle
Signal	Crest factor: 1.58

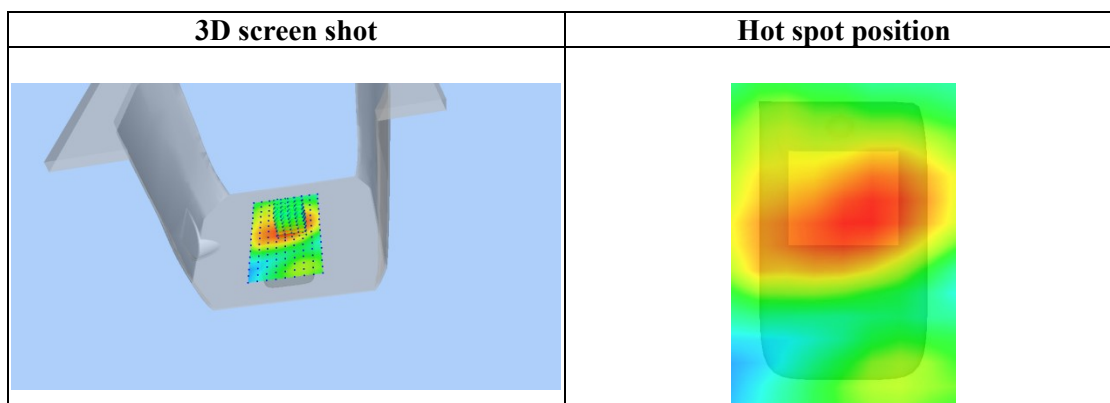
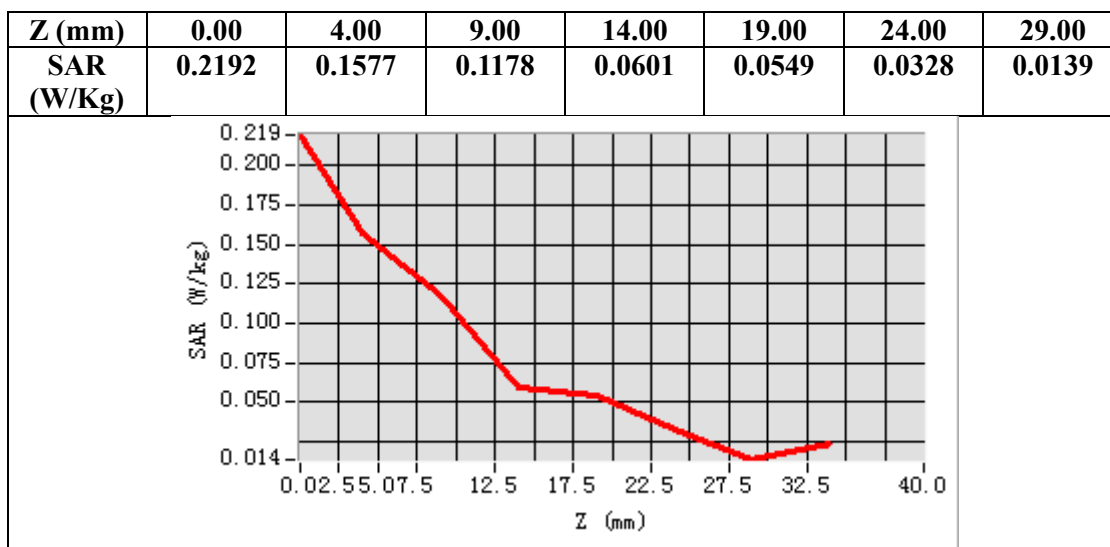


Maximum location: X=8.00, Y=10.00
SAR Peak: 0.24 W/kg

SAR 10g (W/Kg)	0.098935
SAR 1g (W/Kg)	0.156426

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Test Laboratory: AGC Lab
LTE Band 40-Upper Side Mid-Body back with all accessories (1 RB#0)
DUT: 4G LTE Network IP Radio; Type: IP-310

Date: Aug. 19, 2025

Communication System: LTE; Communication System Band: LTE Band 40-Upper Side; Duty Cycle:1:1.58;
Conv.F=2.37
Frequency: 2355 MHz; Medium parameters used: $f = 2300$ MHz; $\sigma = 1.74$ mho/m; $\epsilon_r = 38.61$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section

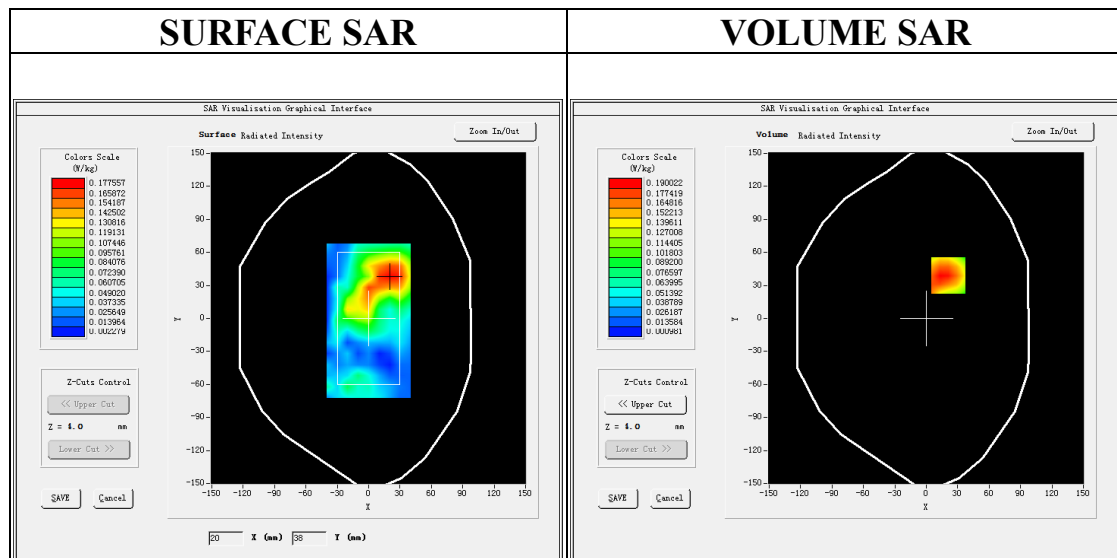
SATIMO Configuration:

- Probe: SSE2; Calibrated: 2025-05-06; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

Configuration/ LTE Band 40-Upper Side Mid-Body back with all accessories/Area Scan: Measurement grid:
dx=8mm, dy=8mm

Configuration/ LTE Band 40-Upper Side Mid-Body back with all accessories/Zoom Scan: Measurement grid:
dx=8mm, dy=8mm, dz=5mm;

Area Scan	surf_sam_plan.txt, h= 5.00 mm
Zoom Scan	7x7x7,dx=5mm dy=5mm dz=5mm
Phantom	Validation plane
Device Position	Body back with all accessories
Band	LTE Band 40-Upper Side
Channels	Middle
Signal	Crest factor: 1.58



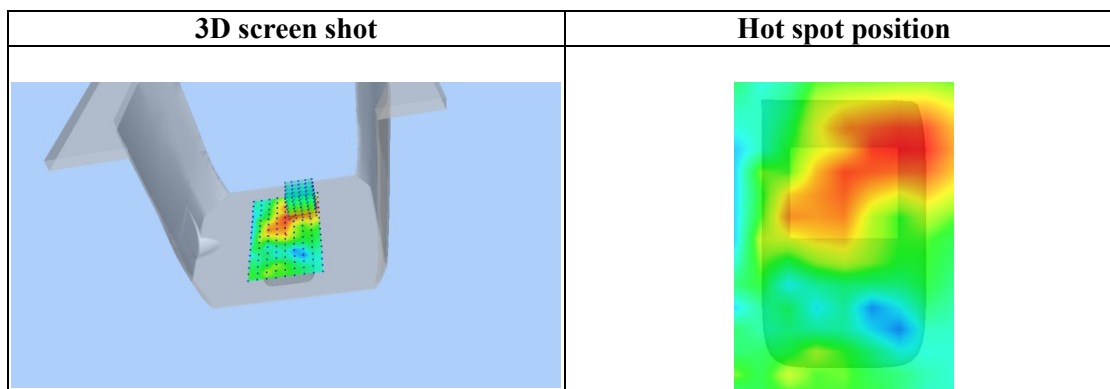
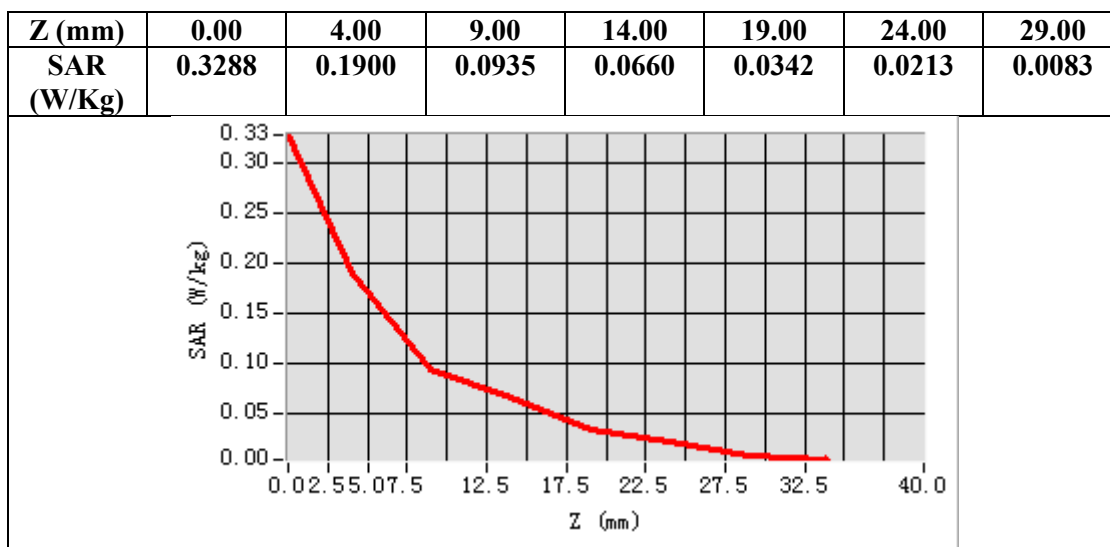
Maximum location: X=21.00, Y=39.00

SAR Peak: 0.30 W/kg

SAR 10g (W/Kg)	0.104762
SAR 1g (W/Kg)	0.183491

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

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Test Laboratory: AGC Lab
LTE Band 41 Mid-Face up(1RB#0)
DUT: 4G LTE Network IP Radio; **Type:** IP-310

Date: Aug. 20, 2025

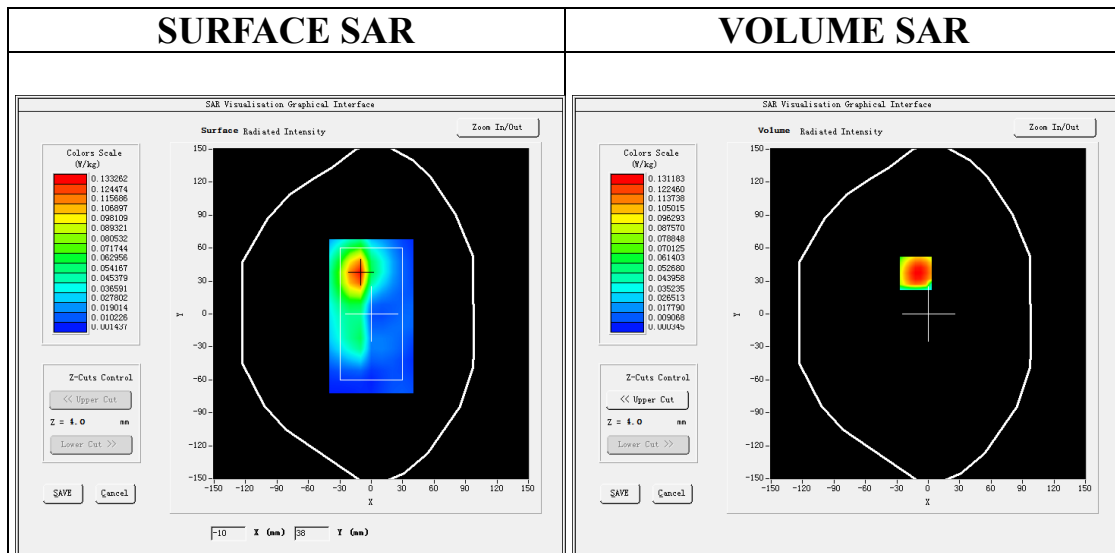
Communication System: LTE; Communication System Band: LTE Band 41; Duty Cycle:1:1.58; Conv.F=2.19
Frequency: 2593MHz; Medium parameters used: $f = 2600$ MHz; $\sigma = 1.88$ mho/m; $\epsilon_r = 39.13$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section

SATIMO Configuration:

- Probe: SSE2; Calibrated: 2025-05-06; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

Configuration/ LTE BAND 41 Mid-Face up /Area Scan: Measurement grid: dx=8mm, y=8mm
Configuration/ LTE BAND 41 Mid-Face up /Zoom Scan: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Area Scan	surf_sam_plan.txt, h= 5.00 mm
ZoomScan	7x7x7,dx=5mm dy=5mm dz=5mm
Phantom	Validation plane
Device Position	Face up
Band	LTE BAND 41
Channels	Middle
Signal	OFDM (Crest factor: 1.58)



Maximum location: X=-12.00, Y=37.00

SAR Peak: 0.23 W/kg

SAR 10g (W/Kg)	0.061846
SAR 1g (W/Kg)	0.116700

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