
SAR Test Report

Report No.: AGC14246250802FH01

FCC ID : 2B097-SPARTANGT99

APPLICATION PURPOSE : Original Equipment

PRODUCT DESIGNATION : Smartphone

BRAND NAME : ENV

MODEL NAME : Spartan GT99, S85B5

APPLICANT : NOVISOLUTIONS CIA LTDA

DATE OF ISSUE : Sep. 30, 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

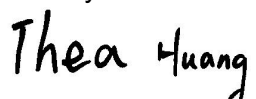
Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Sep. 30, 2025	Valid	Initial Release

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Test Report	
Applicant Name	NOVISOLUTIONS CIA LTDA
Applicant Address	Ponceano N73 y MarianoParedes QUITO ECUADOR
Manufacturer Name	Shenzhen Ebot digital electronics co. LTD
Manufacturer Address	701, Building A, Huizhi R&D Center, Longteng Community, Xixiang Street, Bao'an District, Shenzhen
Factory Name	Shenzhen Ebot digital electronics co. LTD
Factory Address	701, Building A, Huizhi R&D Center, Longteng Community, Xixiang Street, Bao'an District, Shenzhen
Product Designation	Smartphone
Brand Name	ENV
Model Name	Spartan GT99
Series Model	S85B5
Different Description	All the same,except the model names.
EUT Voltage	DC 3.84V 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	Sep. 03, 2025
Test Date	Sep. 19, 2025 to Sep. 27, 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.


 Prepared By _____
 Thea Huang (Project Engineer) Sep. 30, 2025


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 Jack Gui (Reviewer) Sep. 30, 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)
	Head	Body-worn(with 10mm separation)	Hotspot(with 10mm separation)	
GSM 850	0.406	1.180	1.180	1.6
PCS 1900	0.056	0.795	0.795	
UMTS Band II	0.227	1.180	1.180	
UMTS Band V	0.346	1.147	1.147	
LTE Band 2	0.066	1.136	1.136	
LTE Band 4	0.090	1.010	1.010	
WIFI 2.4G	0.905	0.233	0.233	
5.2GHz (U-NII-1)	0.566	0.376	0.376	
5.3GHz (U-NII-2A)	0.577	0.439	0.439	
5.6GHz (U-NII-2C)	0.525	0.332	0.332	
5.8GHz (U-NII-3)	0.134	0.224	0.224	
Simultaneous Reported SAR	1.443			
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 941225 D06 Hotspot Mode v02r01
- 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	Smartphone
Test Model	Spartan GT99
Hardware Version	H898_MB_V2
Software Version	N/A
Device Category	Portable
RF Exposure Environment	Uncontrolled
Antenna Type	PIFA
GSM and GPRS& EGPRS	
Support Band	☒ GSM 850 ☒ PCS 1900 ☐ GSM 900 ☐ DCS 1800
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 GSM/GPRS; GMSK & 8-PSK for EGPRS
Antenna Gain	GSM850: -2.3dBi; PCS1900: 0.16dBi
Max. Average Power	GSM850: 34.33dBm; PCS1900: 30.71dBm
WCDMA	
Support Band	☒ UMTS FDD Band II ☒ UMTS FDD Band V ☐ UMTS FDD Band IV ☐ UMTS FDD Band I ☐ UMTS FDD Band III ☐ UMTS FDD Band VIII
HS Type	HSPA(HSUPA/HSDPA)
TX Frequency Range	FDD Band II: 1850-1910MHz; FDD Band V: 824-849MHz
RX Frequency Range	FDD Band II: 1930-1990MHz; FDD Band V: 869-894MHz
Release Version	Release 6 and later
Type of modulation	HSDPA:QPSK/16QAM; HSUPA:BPSK; WCDMA:QPSK
Antenna Gain	Band II: -2.3dBi; Band V: 0.16dBi
Max. Average Power	Band II: 23.51dBm; Band V: 24.49dBm
Bluetooth	
Bluetooth Version	V5.2
Operation Frequency	2402~2480MHz
Type of modulation	☒ GFSK ☒ II/4-DQPSK ☒ 8-DPSK
Peak Power	2.27dBm
Antenna Gain	-1.78dBi
2.4GHz WIFI	
WIFI Specification	☐ 802.11a ☒ 802.11b ☒ 802.11g ☒ 802.11n(20) ☒ 802.11n(40)
Operation Frequency	2412~2462MHz
Avg. Burst Power	11b: 15.93dBm, 11g: 15.35dBm, 11n(20): 15.09dBm, 11n(40): 15.72dBm
Antenna Gain	-1.78dBi

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General Information	
LTE	
Support Band	☒ FDD Band 2 ☒ FDD Band 4
TX Frequency Range	Band 2:1850-1910MHz; Band 4:1710-1755MHz;
RX Frequency Range	Band 2:1930-1990MHz; Band 4:2110-2155MHz;
Type of modulation	QPSK, 16QAM
Antenna Gain	Band 2: 0.16dBi; Band 4: 0.22dBi;
Max. Average Power	Band 2: 24.35dBm; Band 4: 24.20dBm;
5 GHz WIFI	
WIFI Specification	☒ 802.11a ☒ 802.11n20 ☒ 802.11n40 ☒ 802.11ac20 ☒ 802.11ac40 ☒ 802.11ac80
Operation Frequency	U-NII-1: 5180MHz~5240MHz; U-NII-2A: 5260MHz~5320MHz; U-NII-2C: 5500MHz~5700MHz;U-NII-3: 5745MHz~5825MHz
Max. conducted Power	U-NII-1: 14.63dBm; U-NII-2A: 15.37dBm; U-NII-2C: 13.76dBm; U-NII-3:15.27dBm
Antenna Gain	0.73dBi
Accessories	
Battery	Brand name: N/A Model No. : BA511H Voltage and Capacitance: 3.84 V & 5000mAh
Earphone	Brand name: N/A Model No. : N/A

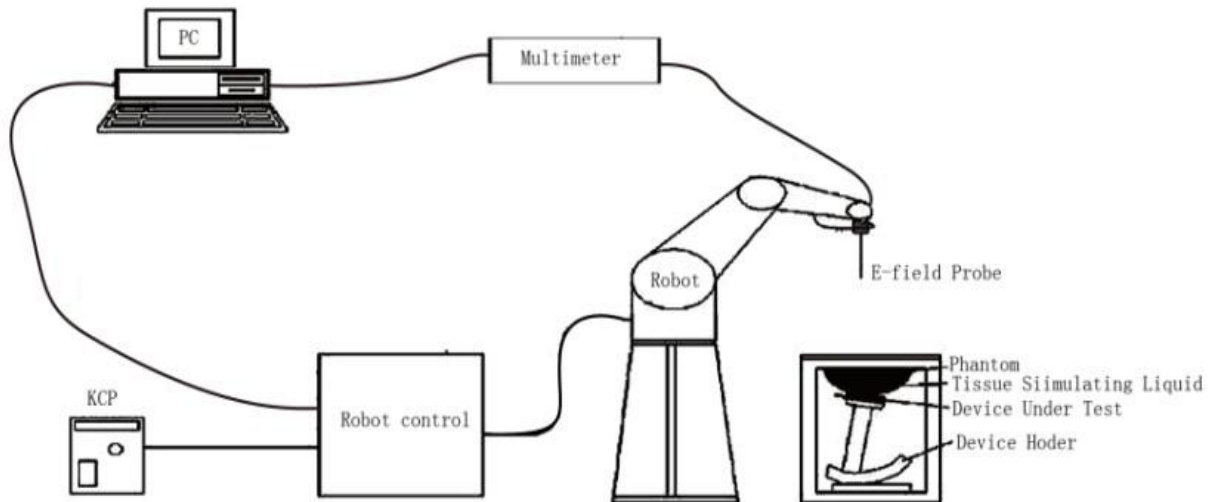
- Note:1.CMU200 can measure the average power and Peak power at the same time
2.The sample used for testing is end product.
3. The test sample has no any deviation to the test method of standard mentioned in page 1.

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:

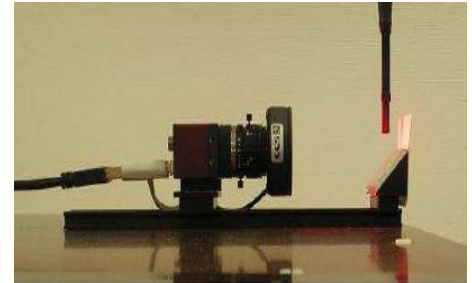
- High precision (repeatability 0.02 mm)
- High reliability (industrial design)
- Jerk-free straight movements
- Low ELF interference (the closed metallic construction shields against motor control fields)
- 6-axis controller



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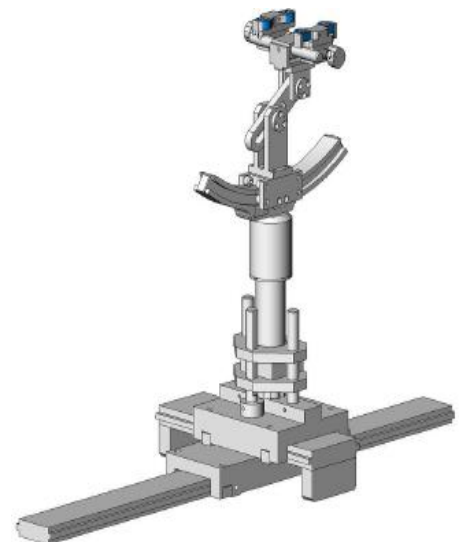
3.4. Video Positioning System

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

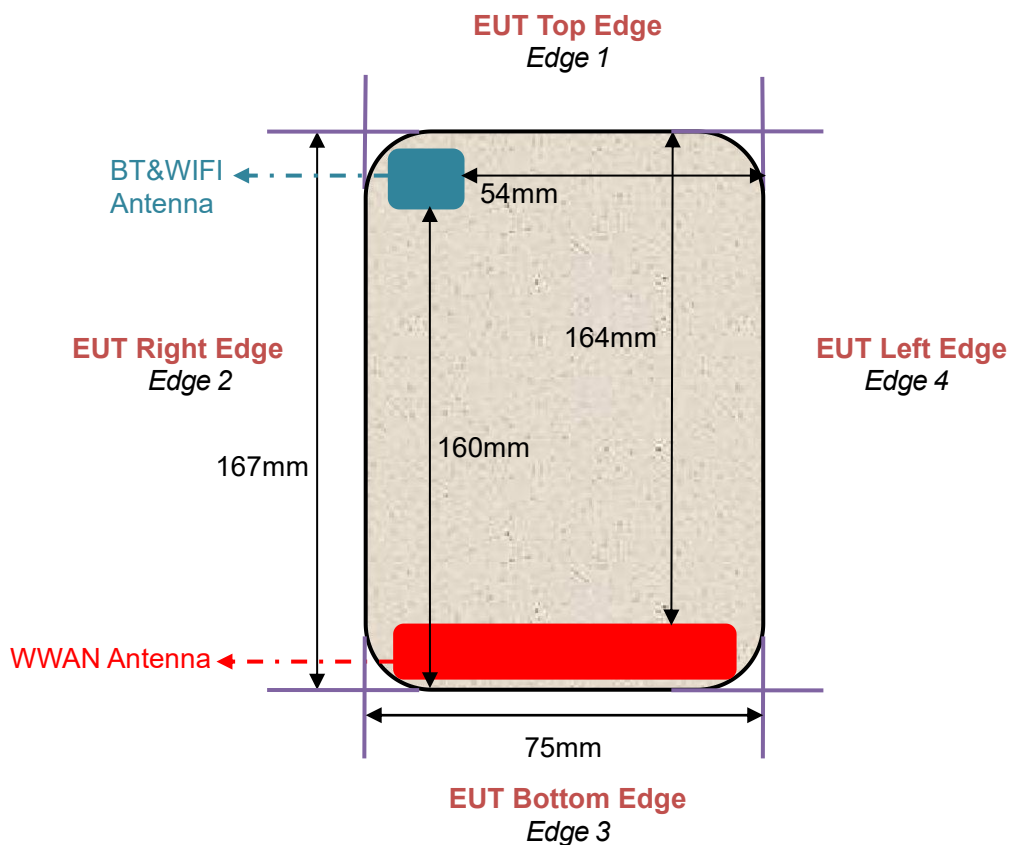
Test Configuration and setting:

The EUT is a model of GSM Portable Mobile Station (MS). It supports GSM/GPRS/EGPRS, WCDMA/HSPA, LTE, BT, WIFI, and 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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For WWAN mode:

Test Configurations	Antenna to edges/surface	SAR required	Note
Head			
Left Touch		Yes	--
Left Tilt		Yes	--
Right Touch		Yes	--
Right Tilt		Yes	--
Body			
Back	<25mm	Yes	--
Front	<25mm	Yes	--
Hotspot			
Back	<25mm	Yes	--
Front	<25mm	Yes	--
Edge 1 (Top)	164mm	No	SAR is not required for the distance between the antenna and the edge is >25mm as per KDB 941225 D06 Hotspot SAR
Edge 2 (Right)	2mm	Yes	--
Edge 3 (Bottom)	2mm	Yes	--
Edge 4 (Left)	3mm	Yes	--

For WLAN mode:

Test Configurations	Antenna to edges/surface	SAR required	Note
Head			
Left Touch		Yes	--
Left Tilt		Yes	--
Right Touch		Yes	--
Right Tilt		Yes	--
Body			
Back	<25mm	Yes	--
Front	<25mm	Yes	--
Hotspot			
Back	<25mm	Yes	--
Front	<25mm	Yes	--
Edge 1 (Top)	2mm	Yes	--
Edge 2 (Right)	2mm	Yes	--
Edge 3 (Bottom)	160mm	No	SAR is not required for the distance between the antenna and the edge is >25mm as per KDB 941225 D06 Hotspot SAR
Edge 4 (Left)	54mm	No	SAR is not required for the distance between the antenna and the edge is >25mm as per KDB 941225 D06 Hotspot SAR

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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
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
2450 Head	71.88	0.16	0.0	7.99	0.0	19.97	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 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	42.06	0.87	21.8	53.4	21.6	Sep. 20, 2025
	826.4	41.86	0.88				
	835	40.87	0.91				
	836.4	40.62	0.92				
	836.6	40.62	0.92				
	846.6	40.31	0.93				
	848.8	39.86	0.93				

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)				
	1720	40.79	1.31	21.2	54.8	21.0	Sep. 22, 2025
	1732.5	40.26	1.32				
	1745	39.69	1.33				
	1750	39.11	1.34				

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)				
	1852.4	41.62	1.34	20.7	57.4	20.5	Sep. 23, 2025
	1860	40.38	1.34				
	1880	39.38	1.35				
	1900	39.06	1.35				
	1907.6	38.96	1.38				

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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	39.61	1.76	20.1	58.8	20.0	Sep. 24, 2025
	2450	38.57	1.78				

Tissue Stimulant Measurement for 5200MHz							
Head	Fr. (MHz)	Dielectric Parameters ($\pm 5\%$)		Ambient Temp [°C]	Relative Humidity (%)	Tissue Temp [°C]	Test time
		ϵ_r 36.0 (34.105-37.695)	δ [s/m] 4.66 (4.427-4.893)				
	5200	35.79	4.65	20.2	62.2	19.9	Sep. 25, 2025

Tissue Stimulant Measurement for 5300MHz							
Head	Fr. (MHz)	Dielectric Parameters ($\pm 5\%$)		Ambient Temp [°C]	Relative Humidity (%)	Tissue Temp [°C]	Test time
		ϵ_r 35.9 (34.105-37.695)	δ [s/m] 4.76 (4.522-4.998)				
	5300	36.03	4.74	21.0	59.1	19.7	Sep. 26, 2025

Tissue Stimulant Measurement for 5600MHz							
Head	Fr. (MHz)	Dielectric Parameters ($\pm 5\%$)		Ambient Temp [°C]	Relative Humidity (%)	Tissue Temp [°C]	Test time
		ϵ_r 35.5(33.725-37.2 75)	δ [s/m] 5.07 (5.0065-5.5335)				
	5580	35.71	5.02	22.4	59.6	22.0	Sep. 27, 2025
	5600	35.33	5.02				

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 (5.0065-5.5335)				
	5785	36.39	5.06	21.3	61.5	21.1	Sep. 19, 2025
	5800	36.17	5.09				

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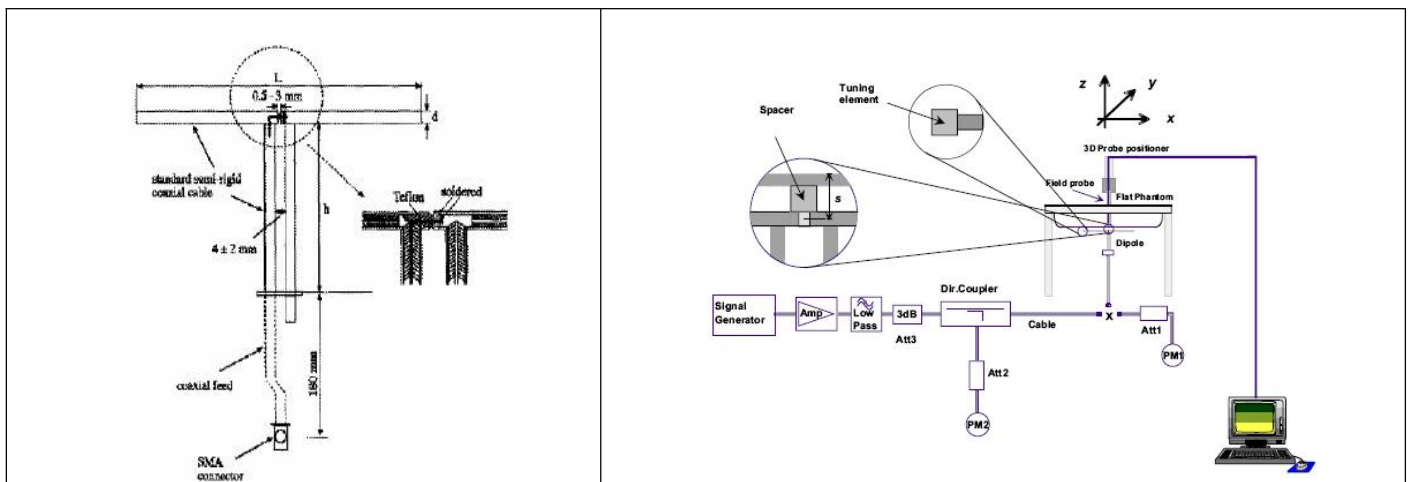
6. SAR SYSTEM CHECK PROCEDURE

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.

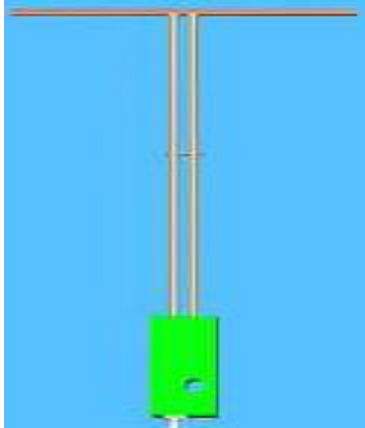
The system check verifies that the system operates within its specifications. It's performed daily or before every SAR measurement. The system check uses normal SAR measurement in the flat section of the phantom with a matched dipole at a specified distance. The system check setup is shown as below.



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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)
835MHz	161.0	89.8	3.6
1800MHz	71.6	41.7	3.6
1900MHz	68	39.5	3.6
2450MHz	51.5	30.4	3.6
5000MHz	20.6	40.3	3.6

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6.2.2. System Check Result

System Performance Check at 35MHz &1800MHz &1900MHz &2450MHz& 5200-5800MHz for Head							
Validation Kit: SN 1516 DIP 0G835-399& SN 4611 DIP 1G800-186& SN 2915 DIP 1G900-389& SN 2915 DIP 2G450-393& 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	
835	9.67	6.29	8.70-10.64	5.66-6.92	10.13	6.35	Sep. 20, 2025
1800	36.11	19.04	32.50-39.72	17.14-20.94	36.51	18.47	Sep. 22, 2025
1900	39.83	20.59	35.85-43.81	18.53-22.65	39.79	20.03	Sep. 23, 2025
2450	53.5	25.0	48.15-58.85	22.50-27.50	52.56	23.73	Sep. 24, 2025
5200	77.74	22.60	69.97-85.51	20.34-24.86	74.74	21.58	Sep. 25, 2025
5200	77.74	22.60	69.97-85.51	20.34-24.86	80.62	22.95	Sep. 26, 2025
5600	80.69	23.28	72.62-88.76	20.95-25.61	74.59	25.50	Sep. 27, 2025
5800	75.01	21.84	67.51-82.51	19.66-24.02	75.32	23.25	Sep. 19, 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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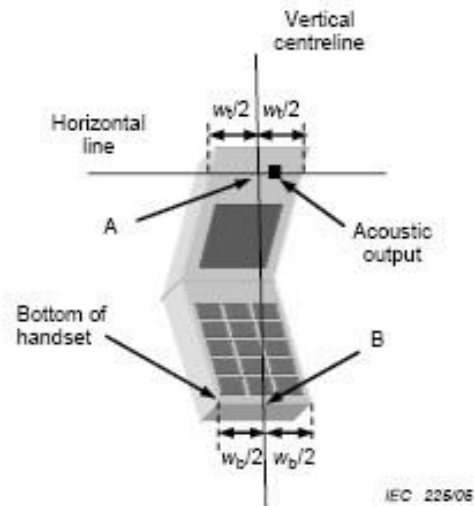
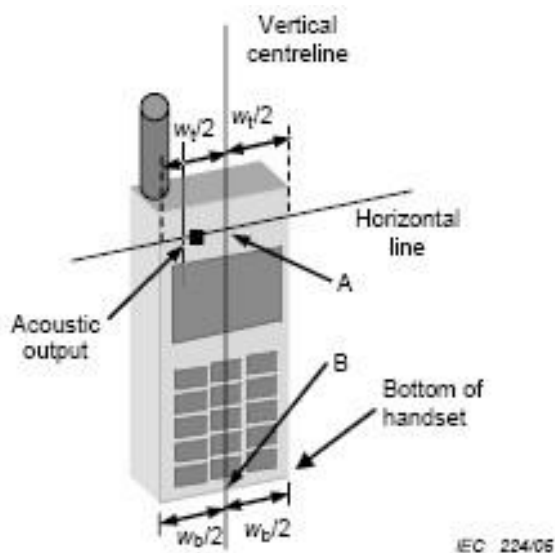
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7. EUT TEST POSITION

This EUT was tested in **Right Cheek, Right Tilted, Left Cheek, Left Tilted, Body back, Body front and 4 edges.**

7.1. Define Two Imaginary Lines on the Handset

- (1) The vertical centerline passes through two points on the front side of the handset the midpoint of the width w_t of the handset at the level of the acoustic output, and the midpoint of the width w_b of the handset.
- (2) The horizontal line is perpendicular to the vertical centerline and passes through the center of the acoustic output. The horizontal line is also tangential to the face of the handset at point A.
- (3) The two lines intersect at point A. Note that for many handsets, point A coincides with the center of the acoustic output; however, the acoustic output may be located elsewhere on the horizontal line. Also note that the vertical centerline is not necessarily to the front face of the handset, especially for clamshell handsets, handsets with flip covers, and other irregularly shaped handsets.



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7.2. Cheek Position

- (1) To position the device with the vertical center line of the body of the device and the horizontal line crossing the center piece in a plane parallel to the sagittal plane of the phantom. While maintaining the device in this plane, align the vertical center line with the reference plane containing the ear and mouth reference point (M: Mouth, RE: Right Ear, and LE: Left Ear) and align the center of the ear piece with the line RE-LE.
- (2) To move the device towards the phantom with the ear piece aligned with the the line LE-RE until the phone touched the ear. While maintaining the device in the reference plane and maintaining the phone contact with ear, move the bottom of the phone until any point on the front side is in contact with the cheek of the phantom or until contact with the ear is lost



7.3. Tilt Position

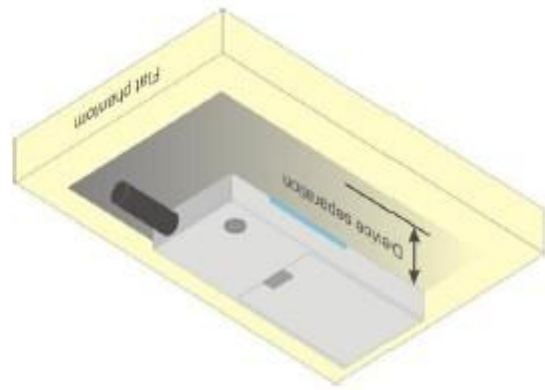
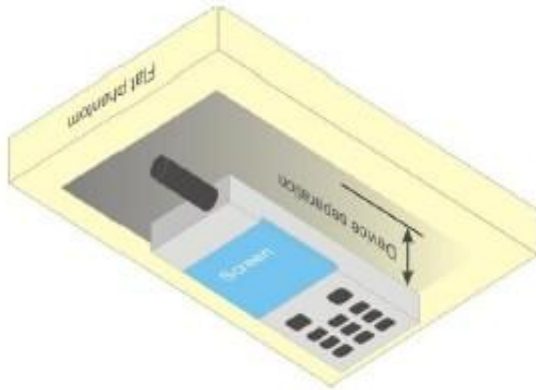
- (1) To position the device in the “cheek” position described above.
- (2) While maintaining the device in the reference plane described above and pivoting against the ear, moves it outward away from the mouth by an angle of 15 degrees or until with the ear is lost.



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7.4. Body Worn 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 **10mm**.



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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-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-A061	Dipole	SATIMO SID2450	SN 2915 DIP 2G450-393	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>				
GSM 850	824.2	34.27	-9	25.27
	836.6	34.10	-9	25.10
	848.8	34.00	-9	25.00
GPRS 850 (1 Slot)	824.2	34.33	-9	25.33
	836.6	34.11	-9	25.11
	848.8	34.00	-9	25.00
GPRS 850 (2 Slot)	824.2	33.60	-6	27.60
	836.6	33.43	-6	27.43
	848.8	33.22	-6	27.22
GPRS 850 (3 Slot)	824.2	31.94	-4.26	27.68
	836.6	31.79	-4.26	27.53
	848.8	31.41	-4.26	27.15
GPRS 850 (4 Slot)	824.2	30.87	-3	27.87
	836.6	30.74	-3	27.74
	848.8	30.27	-3	27.27
EGPRS 850 (1 Slot)	824.2	34.32	-9	25.32
	836.6	34.11	-9	25.11
	848.8	34.02	-9	25.02
EGPRS 850 (2 Slot)	824.2	33.64	-6	27.64
	836.6	33.44	-6	27.44
	848.8	33.23	-6	27.23
EGPRS 850 (3 Slot)	824.2	31.96	-4.26	27.70
	836.6	31.81	-4.26	27.55
	848.8	31.43	-4.26	27.17
EGPRS 850 (4 Slot)	824.2	30.89	-3	27.89
	836.6	30.75	-3	27.75
	848.8	30.28	-3	27.28

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GSM BAND CONTINUE

Mode	Frequency(MHz)	Avg. Burst Power(dBm)	Duty cycle Factor(dBm)	Frame Power(dBm)
Maximum Power <1>				
PCS1900	1850.2	30.45	-9	21.45
	1880	30.56	-9	21.56
	1909.8	30.68	-9	21.68
GPRS1900 (1 Slot)	1850.2	30.45	-9	21.45
	1880	30.58	-9	21.58
	1909.8	30.71	-9	21.71
GPRS1900 (2 Slot)	1850.2	29.95	-6	23.95
	1880	30.07	-6	24.07
	1909.8	30.25	-6	24.25
GPRS1900 (3 Slot)	1850.2	28.46	-4.26	24.20
	1880	28.62	-4.26	24.36
	1909.8	28.80	-4.26	24.54
GPRS1900 (4 Slot)	1850.2	27.39	-3	24.39
	1880	27.55	-3	24.55
	1909.8	27.74	-3	24.74
EGPRS1900 (1 Slot)	1850.2	30.45	-9	21.45
	1880	30.57	-9	21.57
	1909.8	30.71	-9	21.71
EGPRS1900 (2 Slot)	1850.2	29.95	-6	23.95
	1880	30.08	-6	24.08
	1909.8	30.23	-6	24.23
EGPRS1900 (3 Slot)	1850.2	28.46	-4.26	24.20
	1880	28.61	-4.26	24.35
	1909.8	28.80	-4.26	24.54
EGPRS1900 (4 Slot)	1850.2	27.39	-3	24.39
	1880	27.55	-3	24.55
	1909.8	27.72	-3	24.72

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

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UMTS BAND

HSDPA Setup Configuration:

- The EUT was connected to Base Station Agilent-8960 referred to the Setup Configuration.
- The RF path losses were compensated into the measurements.
- A call was established between EUT and Based Station with following setting:
 - (1) Set Gain Factors(β_c and β_d) parameters set according to each
 - (2) Set RMC 12.2Kbps+HSDPA mode.
 - (3) Set Cell Power=-86dBm
 - (4) Set HS-DSCH Configuration Type to FRC (H-set 1, QPSK)
 - (5) Select HSDPA Uplink Parameters
 - (6) Set Delta ACK, Delta NACK and Delta CQI=8
 - (7) Set Ack - Nack Repetition Factor to 3
 - (8) Set CQI Feedback Cycle (k) to 4ms
 - (9) Set CQI Repetition Factor to 2
 - (10) Power Ctrl Mode=All Up bits
- The transmitted maximum output power was recorded.

Table C.10.2.4: β values for transmitter characteristics tests with HS-DPCCH

Sub-test	β_c (Note5)	β_d	β_d (SF)	β_c/β_d	β_{HS} (Note1, Note 2)	CM (dB) (Note 3)	MPR (dB) (Note 3)
1	2/15	15/15	64	2/15	4/15	0.0	0.0
2	12/15(Note 4)	15/15(Note 4)	64	12/15(Note 4)	24/15	1.0	0.0
3	15/15	8/15	64	15/8	30/15	1.5	0.5
4	15/15	4/15	64	15/4	30/15	1.5	0.5

Note 1: ΔACK , $\Delta NACK$ and $\Delta CQI = 30/15$ with $\beta_{hs} = 30/15 * \beta_c$.

Note 2: For the HS-DPCCH power mask requirement test in clause 5.2C, 5.7A, and the Error Vector Magnitude (EVM) with HS-DPCCH test in clause 5.13.1A, and HSDPA EVM with phase discontinuity in clause 5.13.1AA, ΔACK and $\Delta NACK = 30/15$ with $\beta_{hs} = 30/15 * \beta_c$, and $\Delta CQI = 24/15$ with $\beta_{hs} = 24/15 * \beta_c$.

Note 3: CM = 1 for $\beta_c/\beta_d = 12/15$, $hs/c = 24/15$. For all other combinations of DPDCH, DPCCH and HS-DPCCH the MPR is based on the relative CM difference. This is applicable for only UEs that support HSDPA in release 6 and later releases.

Note 4: For subtest 2 the c/d ratio of 12/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to $c = 11/15$ and $d = 15/15$.

HSUPA Setup Configuration:

- The EUT was connected to Base Station Agilent-8960 referred to the Setup Configuration.
- The RF path losses were compensated into the measurements.
- A call was established between EUT and Base Station with following setting * :
 - (1) Call Configs = 5.2B, 5.9B, 5.10B, and 5.13.2B with QPSK
 - (2) Set the Gain Factors (β_c and β_d) and parameters (AG Index) were set according to each specific sub-test in the following table, C11.1.3, quoted from the TS 34.121
 - (3) Set Cell Power = -86 dBm
 - (4) Set Channel Type = 12.2k + HSPA
 - (5) Set UE Target Power
 - (6) Power Ctrl Mode= Alternating bits
 - (7) Set and observe the E-TFCI
 - (8) Confirm that E-TFCI is equal to the target E-TFCI of 75 for sub-test 1, and other subtest's E-TFCI
- The transmitted maximum output power was recorded.

Table C.11.1.3: β values for transmitter characteristics tests with HS-DPCCH and E-DCH

Sub-test	β_c	β_d	β_d (SF)	β_c/β_d	β_{HS} (Note 1)	β_{ec}	β_{ed} (Note 4) (Note 5)	β_{ed} (SF)	β_{ed} (Code s)	CM (dB) (Note 2)	MPR (dB) (Note 2) (Note 6)	AG Index (Note 5)	E-TF CI
1	11/15 (Note 3)	15/15 (Note 3)	64	11/15 (Note 3)	22/15	209/225	1309/225	4	1	1.0	0.0	20	75
2	6/15	15/15	64	6/15	12/15	12/15	94/75	4	1	3.0	2.0	12	67
3	15/15	9/15	64	15/9	30/15	30/15	β_{ed1} : 47/15 β_{ed2} : 47/15	4 4	2	2.0	1.0	15	92
4	2/15	15/15	64	2/15	4/15	2/15	56/75	4	1	3.0	2.0	17	71
5	15/15	0	-	-	5/15	5/15	47/15	4	1	1.0	0.0	12	67

Note 1: For sub-test 1 to 4, ΔACK , $\Delta NACK$ and $\Delta CQI = 30/15$ with $\beta_{hs} = 30/15 * \beta_c$. For sub-test 5, ΔACK , $\Delta NACK$ and $\Delta CQI = 5/15$ with $\beta_{hs} = 5/15 * \beta_c$.

Note 2: CM = 1 for $\beta_c/\beta_d = 12/15$, $hs/c = 24/15$. For all other combinations of DPDCH, DPCCH, HS-DPCCH, E-DPDCH and E-DPCCH the MPR is based on the relative CM difference.

Note 3: For subtest 1 the c/d ratio of 11/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to $c = 10/15$ and $d = 15/15$.

Note 4: In case of testing by UE using E-DPDCH Physical Layer category 1, Sub-test 3 is omitted according to TS25.306 Table 5.1g.

Note 5: β_{ed} cannot be set directly; it is set by Absolute Grant Value.

Note 6: For subtests 2, 3 and 4, UE may perform E-DPDCH power scaling at max power which could results in slightly smaller MPR values.

UMTS BAND II

Mode	Frequency (MHz)	Avg. Burst Power (dBm)
WCDMA 1900 RMC	1852.4	23.51
	1880	23.28
	1907.6	23.40
HSDPA Subtest 1	1852.4	22.59
	1880	22.39
	1907.6	22.47
HSDPA Subtest 2	1852.4	22.20
	1880	21.76
	1907.6	21.87
HSDPA Subtest 3	1852.4	20.75
	1880	20.51
	1907.6	20.95
HSDPA Subtest 4	1852.4	20.87
	1880	20.94
	1907.6	20.99
HSUPA Subtest 1	1852.4	21.47
	1880	22.16
	1907.6	22.25
HSUPA Subtest 2	1852.4	22.54
	1880	22.18
	1907.6	22.32
HSUPA Subtest 3	1852.4	20.63
	1880	21.03
	1907.6	21.29
HSUPA Subtest 4	1852.4	22.59
	1880	22.35
	1907.6	22.51
HSUPA Subtest 5	1852.4	20.85
	1880	21.66
	1907.6	21.67

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UMTS BAND V

Mode	Frequency (MHz)	Avg. Burst Power (dBm)
WCDMA 850 RMC	826.4	23.37
	836.4	23.78
	846.6	24.49
HSDPA Subtest 1	826.4	22.39
	836.4	22.83
	846.6	23.51
HSDPA Subtest 2	826.4	22.15
	836.4	22.48
	846.6	23.26
HSDPA Subtest 3	826.4	20.63
	836.4	20.91
	846.6	22.00
HSDPA Subtest 4	826.4	20.91
	836.4	20.95
	846.6	21.71
HSUPA Subtest 1	826.4	20.78
	836.4	22.68
	846.6	23.35
HSUPA Subtest 2	826.4	22.19
	836.4	22.72
	846.6	23.26
HSUPA Subtest 3	826.4	20.66
	836.4	21.53
	846.6	22.32
HSUPA Subtest 4	826.4	22.42
	836.4	22.80
	846.6	23.52
HSUPA Subtest 5	826.4	20.85
	836.4	22.16
	846.6	22.88

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

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

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

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

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

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

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

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	23.81	23.76	23.77
			3	0	23.94	23.79	23.86
			5	0	23.91	23.71	23.73
		3	0	0	23.94	23.76	23.90
			2	0	23.99	23.82	23.91
			3	0	23.93	23.76	23.87
		6	0	1	22.99	22.79	22.89
	16QAM	1	0	1	22.65	22.89	23.01
			3	1	22.75	22.95	23.03
			5	1	22.72	22.88	22.96
		3	0	1	23.11	22.98	23.13
			2	1	23.15	22.97	23.20
			3	1	23.13	22.95	23.11
		6	0	2	22.19	22.02	22.14
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					18615	18900	19185
3MHz	QPSK	1	0	0	23.69	23.59	23.72
			7	0	23.81	23.70	23.76
			14	0	23.82	23.61	23.66
		8	0	1	22.95	22.74	22.95
			4	1	23.01	22.81	22.98
			7	1	23.03	22.77	22.93
		15	0	1	22.97	22.80	22.90
	16QAM	1	0	1	22.87	22.45	23.17
			7	1	23.03	22.59	23.23
			14	1	23.05	22.45	23.10
		8	0	2	21.95	21.78	21.99
			4	2	22.02	21.84	22.01
			7	2	22.01	21.82	21.93
		15	0	2	21.95	21.84	21.97

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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	24.00	23.75	23.96
			13	0	24.17	23.84	24.05
			24	0	24.13	23.77	23.93
		12	0	1	23.09	22.83	23.07
			6	1	23.16	22.92	23.07
			13	1	23.12	22.86	22.96
		25	0	1	23.11	22.86	23.03
	16QAM	1	0	1	23.33	23.15	23.54
			13	1	23.52	23.25	23.61
			24	1	23.46	23.15	23.47
		12	0	2	22.06	21.90	22.09
			6	2	22.12	21.99	22.12
			13	2	22.13	21.90	22.00
		25	0	2	22.17	21.86	22.02
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					18650	18900	19150
10MHz	QPSK	1	0	0	24.05	23.95	24.09
			25	0	24.21	23.92	24.14
			49	0	24.29	23.94	24.11
		25	0	1	23.17	22.90	23.05
			13	1	23.29	22.95	23.08
			25	1	23.26	22.84	22.88
		50	0	1	23.29	22.91	23.01
	16QAM	1	0	1	23.47	23.14	22.96
			25	1	23.66	23.13	22.98
			49	1	23.74	23.15	22.95
		25	0	2	22.23	21.92	22.09
			13	2	22.33	21.94	22.12
			25	2	22.31	21.85	21.92
		50	0	2	22.27	21.94	22.01

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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	24.05	23.85	23.96
			38	0	24.35	23.91	24.11
			74	0	24.26	23.84	24.01
		36	0	1	23.21	22.89	22.96
			18	1	23.27	22.90	23.07
			39	1	23.29	22.84	22.96
		75	0	1	23.31	22.92	22.99
	16QAM	1	0	1	23.10	23.33	23.15
			38	1	23.43	23.38	23.31
			74	1	23.32	23.32	23.21
		36	0	2	22.14	21.93	22.05
			18	2	22.28	21.97	22.18
			39	2	22.27	21.92	22.03
		75	0	2	22.34	21.90	22.01
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					18700	18900	19100
20MHz	QPSK	1	0	0	23.94	23.81	23.83
			50	0	24.33	23.93	24.23
			99	0	24.09	23.86	24.03
		50	0	1	23.29	22.88	22.95
			25	1	23.35	22.97	23.10
			50	1	23.46	22.82	23.01
		100	0	1	23.33	22.84	22.98
	16QAM	1	0	1	23.19	23.24	23.13
			50	1	23.63	23.38	23.46
			99	1	23.40	23.24	23.26
		50	0	2	22.35	21.95	21.96
			25	2	22.43	22.03	22.09
			50	2	22.54	21.88	22.01
		100	0	2	22.37	21.88	22.01

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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	23.93	23.83	23.79
			3	0	23.88	23.93	23.86
			5	0	23.81	23.86	23.73
		3	0	0	23.78	23.98	23.83
			2	0	23.83	24.05	23.83
			3	0	23.78	23.98	23.79
		6	0	1	22.90	22.99	22.87
	16QAM	1	0	1	22.77	22.99	22.51
			3	1	22.82	23.07	22.60
			5	1	22.80	22.99	22.51
		3	0	1	22.95	23.18	22.92
			2	1	22.94	23.24	22.96
			3	1	22.90	23.21	22.94
		6	0	2	22.03	22.15	22.07
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					19965	20175	20385
3MHz	QPSK	1	0	0	23.61	23.66	23.58
			7	0	23.71	23.78	23.64
			14	0	23.67	23.76	23.60
		8	0	1	22.75	22.90	22.76
			4	1	22.79	23.00	22.84
			7	1	22.72	22.98	22.83
		15	0	1	22.75	22.92	22.78
	16QAM	1	0	1	22.37	23.12	22.77
			7	1	22.43	23.21	22.84
			14	1	22.33	23.13	22.78
		8	0	2	21.71	21.96	21.83
			4	2	21.76	22.07	21.87
			7	2	21.71	21.98	21.84
		15	0	2	21.82	21.99	21.81

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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	23.87	23.86	23.87
			13	0	23.91	24.01	23.93
			24	0	23.79	23.95	23.85
		12	0	1	22.78	22.96	22.88
			6	1	22.81	23.07	22.93
			13	1	22.80	23.04	22.85
		25	0	1	22.81	23.03	22.91
	16QAM	1	0	1	23.10	23.20	23.34
			13	1	23.16	23.33	23.42
			24	1	23.05	23.33	23.33
		12	0	2	21.73	22.02	21.86
			6	2	21.82	22.10	21.94
			13	2	21.78	22.09	21.88
		25	0	2	21.86	22.06	21.93
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					20000	20175	20350
10MHz	QPSK	1	0	0	23.99	23.94	23.99
			25	0	23.97	24.09	23.95
			49	0	23.97	24.16	23.93
		25	0	1	22.73	22.95	22.90
			13	1	22.89	23.11	22.92
			25	1	22.81	23.12	22.87
		50	0	1	22.81	23.05	22.93
	16QAM	1	0	1	22.70	23.33	23.14
			25	1	22.66	23.49	23.10
			49	1	22.69	23.54	23.08
		25	0	2	21.74	22.02	21.91
			13	2	21.88	22.16	21.97
			25	2	21.85	22.16	21.90
		50	0	2	21.80	22.06	21.96

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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	23.81	23.89	24.00
			38	0	23.82	24.17	23.96
			74	0	23.88	24.20	23.86
		36	0	1	22.85	22.97	23.04
			18	1	22.88	23.12	23.04
			39	1	22.91	23.16	22.96
		75	0	1	22.92	23.13	23.04
	16QAM	1	0	1	22.92	22.92	23.38
			38	1	22.96	23.18	23.37
			74	1	23.04	23.20	23.26
		36	0	2	21.88	21.90	22.08
			18	2	21.91	22.09	22.04
			39	2	21.93	22.10	22.01
		75	0	2	21.87	22.13	22.00
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					20050	20175	20300
20MHz	QPSK	1	0	0	23.84	23.74	23.98
			50	0	23.97	24.17	24.17
			99	0	24.04	24.12	23.89
		50	0	1	22.71	22.93	23.08
			25	1	22.90	23.13	23.12
			50	1	22.94	23.18	23.00
		100	0	1	22.81	23.03	23.05
	16QAM	1	0	1	22.90	22.94	23.27
			50	1	23.07	23.38	23.42
			99	1	23.18	23.33	23.16
		50	0	2	21.73	21.97	22.13
			25	2	21.90	22.21	22.20
			50	2	21.95	22.25	22.09
		100	0	2	21.85	22.08	22.07

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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

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	28	5, 10	Table 5.4.2-1	N/A
	6.6.3.3.11	28	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	15.93
		06	2437	15.88
		11	2462	15.22
802.11g	6	01	2412	15.35
		06	2437	15.25
		11	2462	15.27
802.11n(20)	6.5	01	2412	15.09
		06	2437	14.92
		11	2462	15.07
802.11n(40)	13.5	03	2422	15.72
		06	2437	15.52
		09	2452	15.52

Bluetooth_BR/EDR

Modulation	Channel	Frequency(MHz)	Peak Power (dBm)
GFSK	0	2402	2.27
	39	2441	1.38
	78	2480	1.70
$\pi/4$ -DQPSK	0	2402	1.53
	39	2441	0.74
	78	2480	1.07
8-DPSK	0	2402	1.45
	39	2441	0.69
	78	2480	1.04

Bluetooth_BLE

Modulation	Channel	Frequency(MHz)	Peak Power (dBm)
GFSK_1M	0	2402	-0.04
	19	2440	-0.82
	39	2480	-0.39
GFSK_2M	0	2402	0.47
	19	2440	-0.77
	39	2480	-0.51

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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	36	5180	14.17	14.15	14.12	14.11	14.05	13.87	13.86	13.77
	40	5200	14.13	13.96	13.87	13.74	13.67	13.65	13.57	13.54
	48	5240	14.63	14.45	14.35	14.30	14.15	14.10	14.00	13.99
	52	5260	14.77	14.66	14.55	14.46	14.30	14.21	14.01	13.84
	60	5300	15.01	14.90	14.77	14.58	14.52	14.46	14.42	14.23
	64	5320	15.37	15.17	15.06	14.93	14.84	14.83	14.65	14.61
	100	5500	13.76	13.57	13.38	13.23	13.14	12.98	12.83	12.76
	116	5580	13.39	13.37	13.28	13.11	13.01	12.89	12.72	12.55
	140	5700	13.57	13.53	13.33	13.31	13.22	13.12	13.04	12.85
	149	5745	14.73	14.68	14.52	14.35	14.30	14.10	13.96	13.96
	157	5785	15.07	15.02	14.85	14.69	14.51	14.33	14.24	14.15
	165	5825	15.27	15.20	15.10	14.92	14.88	14.84	14.84	14.82
			MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
802.11n (20)	36	5180	13.49	13.42	13.34	13.30	13.29	13.16	12.97	12.94
	40	5200	13.15	12.98	12.93	12.89	12.83	12.66	12.59	12.59
	48	5240	13.55	13.49	13.43	13.34	13.33	13.15	13.00	12.80
	52	5260	13.65	13.59	13.50	13.40	13.27	13.17	13.06	12.94
	60	5300	13.90	13.81	13.74	13.59	13.39	13.30	13.22	13.20
	64	5320	14.30	14.12	13.93	13.79	13.74	13.68	13.55	13.50
	100	5500	12.66	12.65	12.55	12.48	12.48	12.43	12.40	12.32
	116	5580	12.23	12.17	12.09	12.04	11.91	11.85	11.80	11.63
	140	5700	12.48	12.38	12.20	12.02	12.01	11.97	11.97	11.83
	149	5745	13.63	13.44	13.38	13.29	13.24	13.08	13.08	13.06
	157	5785	13.88	13.81	13.65	13.64	13.62	13.46	13.31	13.30
	165	5825	14.11	13.96	13.88	13.75	13.64	13.49	13.37	13.22
			MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
802.11n (40)	38	5190	13.64	13.47	13.32	13.32	13.14	13.00	12.89	12.84
	46	5230	13.40	13.21	13.11	13.06	13.03	13.00	12.84	12.69
	54	5270	12.81	12.72	12.54	12.47	12.45	12.34	12.33	12.15
	62	5310	13.20	13.10	13.10	13.00	12.81	12.66	12.66	12.52
	102	5510	12.99	12.84	12.80	12.76	12.58	12.51	12.48	12.42
	110	5550	12.83	12.70	12.64	12.62	12.60	12.54	12.51	12.32
	134	5670	12.67	12.59	12.44	12.34	12.16	11.98	11.85	11.82
	151	5755	13.83	13.72	13.55	13.46	13.29	13.25	13.06	12.98
	159	5795	14.20	14.02	13.88	13.69	13.61	13.54	13.47	13.38

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Mode	channel	Frequency	Avg. Burst Power (dBm)							
			Data Rate(bps)							
			MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
802.11ac (20)	36	5180	13.38	13.34	13.15	13.09	13.06	13.05	12.90	12.86
	40	5200	13.05	12.91	12.83	12.79	12.63	12.59	12.43	12.33
	48	5240	13.53	13.44	13.32	13.27	13.24	13.19	13.15	13.01
	52	5260	13.67	13.65	13.63	13.56	13.55	13.51	13.37	13.18
	60	5300	13.91	13.75	13.71	13.65	13.61	13.45	13.31	13.13
	64	5320	14.34	14.21	14.05	13.99	13.86	13.71	13.66	13.59
	100	5500	12.72	12.70	12.50	12.32	12.24	12.11	12.00	11.92
	116	5580	12.26	12.15	11.99	11.90	11.88	11.80	11.69	11.61
	140	5700	12.48	12.34	12.28	12.26	12.09	12.03	11.90	11.73
	149	5745	13.60	13.50	13.38	13.34	13.28	13.22	13.15	13.08
	157	5785	13.98	13.92	13.89	13.84	13.68	13.62	13.59	13.50
	165	5825	14.18	14.06	13.96	13.92	13.79	13.78	13.66	13.46
			MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
802.11ac (40)	38	5190	14.15	13.97	13.84	13.83	13.70	13.62	13.49	13.43
	46	5230	13.18	13.05	12.94	12.84	12.84	12.71	12.54	12.45
	54	5270	12.69	12.51	12.44	12.37	12.36	12.33	12.29	12.27
	62	5310	13.04	13.01	12.99	12.98	12.82	12.75	12.75	12.60
	102	5510	12.85	12.72	12.57	12.55	12.41	12.30	12.30	12.22
	110	5550	12.54	12.49	12.30	12.21	12.18	12.07	12.05	12.02
	134	5670	12.46	12.35	12.34	12.28	12.17	12.14	12.07	12.01
	151	5755	13.83	13.78	13.61	13.56	13.52	13.51	13.32	13.12
	159	5795	14.03	14.03	13.92	13.82	13.68	13.53	13.42	13.32
			MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
802.11ac (80)	42	5210	13.33	13.25	13.08	12.98	12.85	12.82	12.81	12.76
	58	5290	12.59	12.46	12.36	12.24	12.11	12.10	12.05	11.94
	106	5530	12.74	12.64	12.48	12.36	12.27	12.19	12.08	11.98
	138	5690	12.54	12.41	12.28	12.14	11.98	11.95	11.95	11.85
	155	5775	14.02	13.90	13.75	13.62	13.53	13.34	13.23	13.03

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13. TEST RESULTS

13.1. SAR Test Results Summary

13.1.1. Test position and configuration

Head SAR was performed with the device configured in the positions according to IEEE 1528-2013, Body-worn and 4 Edges SAR was performed with the device 10mm from the 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 648474 D04 v01r03,when the reported SAR for a body-worn accessory measured without a headset connected to the handset is ≤ 1.2 W/kg, SAR testing with a headset connected is not required.
5. 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.
6. 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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7. Per KDB 941225 D06 V02r01, When the same wireless mode transmission configurations for voice and data are required for SAR measurements, the more conservative configuration with a smaller separation distance should be tested for the overlapping SAR configurations.
8. Maximum Scaling SAR in order to calculate the Maximum SAR values to test under the standard Peak Power, Calculation method is as follows:
$$\text{Maximum Scaling SAR} = \text{tested SAR (Max.)} \times [\text{maximum turn-up power (mW)} / \text{maximum measurement output power (mW)}]$$
9. Proximity sensor, just for avoiding the wrong operation in the phone screen when call, and has no influence on output power or SAR result
10. 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.
11. Per KDB 941125 D05v02r05, 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure.
12. Per KDB 941125 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 $>1.45 \text{ W/kg}$, the remaining required test channels must also be tested.
13. Per KDB 941125 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 $\leq 1.45 \text{ W/kg}$, Per KDB 941225 D05v02r05, 16QAM SAR testing is not required.
14. Per KDB 941125 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 $\leq 1.45 \text{ W/kg}$. 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: Smartphone										
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										
Left Cheek	voice	190	836.6	-0.60	0.325	34.30	34.10	1.047	0.340	1.6
Left Tilt	voice	190	836.6	0.81	0.209	34.30	34.10	1.047	0.219	1.6
Right Cheek	voice	190	836.6	0.81	0.388	34.30	34.10	1.047	0.406	1.6
Right Tilt	voice	190	836.6	0.89	0.206	34.30	34.10	1.047	0.216	1.6
Body back	voice	128	824.2	-0.31	0.880	34.30	34.27	1.007	0.886	1.6
Body back	voice	190	836.6	0.25	0.798	34.30	34.10	1.047	0.836	1.6
Body back	voice	251	848.8	-0.28	0.883	34.30	34.00	1.072	0.946	1.6
Body front	voice	190	836.6	0.91	0.417	34.30	34.10	1.047	0.437	1.6
Body back	GPRS-4 slot	128	824.2	-0.80	1.065	30.90	30.87	1.007	1.072	1.6
Body back	GPRS-4 slot	190	836.6	-0.72	1.068	30.90	30.74	1.038	1.108	1.6
Body back	GPRS-4 slot	251	848.8	1.13	1.074	30.50	30.27	1.081	1.180	1.6
Body front	GPRS-4 slot	190	836.6	-0.25	0.601	30.90	30.74	1.038	0.624	1.6
Edge 1 (Top)	GPRS-4 slot	190	836.6	-0.43	0.030	30.90	30.74	1.038	0.031	1.6
Edge 2(Right)	GPRS-4 slot	190	836.6	0.32	0.521	30.90	30.74	1.038	0.541	1.6
Edge 3(Bottom)	GPRS-4 slot	190	836.6	1.00	0.194	30.90	30.74	1.038	0.201	1.6
Edge 4(Left)	GPRS-4 slot	251	848.8	-0.12	0.226	30.90	30.27	1.156	0.261	1.6

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SAR MEASUREMENT										
Depth of Liquid (cm):>15										
Product: Smartphone										
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)
SIM 1 Card										
Left Cheek	voice	661	1880.0	-0.63	0.054	30.70	30.56	1.033	0.056	1.6
Left Tilt	voice	661	1880.0	0.89	0.028	30.70	30.56	1.033	0.029	1.6
Right Cheek	voice	661	1880.0	-0.74	0.046	30.70	30.56	1.033	0.048	1.6
Right Tilt	voice	661	1880.0	0.67	0.012	30.70	30.56	1.033	0.012	1.6
Body back	voice	661	1880.0	-0.86	0.582	30.70	30.56	1.033	0.601	1.6
Body front	voice	661	1880.0	1.06	0.184	30.70	30.56	1.033	0.190	1.6
Body back	GPRS-4 slot	661	1880	0.65	0.751	27.80	27.55	1.059	0.795	1.6
Body front	GPRS-4 slot	661	1880.0	-0.86	0.243	27.80	27.55	1.059	0.257	1.6
Edge 2(Right)	GPRS-4 slot	661	1880.0	0.63	0.063	27.80	27.55	1.059	0.067	1.6
Edge 3(Bottom)	GPRS-4 slot	661	1880.0	0.14	0.649	27.80	27.55	1.059	0.687	1.6
Edge 4(Left)	GPRS-4 slot	661	1880.0	-0.24	0.109	27.80	27.55	1.059	0.115	1.6

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SAR MEASUREMENT										
Depth of Liquid (cm):>15										
Product: Smartphone										
Test Mode: WCDMA Band II with QPSK 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)
Left Cheek	RMC 12.2kbps	9400	1880	-0.65	0.190	23.40	23.28	1.028	0.195	1.6
Left Tilt	RMC 12.2kbps	9400	1880	0.71	0.095	23.40	23.28	1.028	0.098	1.6
Right Cheek	RMC 12.2kbps	9400	1880	-0.76	0.221	23.40	23.28	1.028	0.227	1.6
Right Tilt	RMC 12.2kbps	9400	1880	-0.74	0.050	23.40	23.28	1.028	0.051	1.6
Body back	RMC 12.2kbps	9262	1852.4	0.92	1.141	23.60	23.51	1.021	1.165	1.6
Body back	RMC 12.2kbps	9400	1880	-0.78	1.148	23.40	23.28	1.028	1.180	1.6
Body back	RMC 12.2kbps	9538	1907.6	0.75	1.034	23.60	23.40	1.047	1.083	1.6
Body front	RMC 12.2kbps	9400	1880	-0.69	0.279	23.40	23.28	1.028	0.287	1.6
Edge 2(Right)	RMC 12.2kbps	9400	1880	0.87	0.158	23.40	23.28	1.028	0.162	1.6
Edge 3(Bottom)	RMC 12.2kbps	9262	1852.4	0.03	0.955	23.60	23.51	1.021	0.975	1.6
Edge 3(Bottom)	RMC 12.2kbps	9400	1880	-0.14	1.031	23.40	23.28	1.028	1.060	1.6
Edge 3(Bottom)	RMC 12.2kbps	9538	1907.6	-0.22	0.999	23.60	23.40	1.047	1.046	1.6
Edge 4(Left)	RMC 12.2kbps	9400	1880	0.79	0.262	23.40	23.28	1.028	0.269	1.6

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SAR MEASUREMENT										
Depth of Liquid (cm):>15										
Product: Smartphone										
Test Mode: WCDMA Band V with QPSK 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)
Left Cheek	RMC 12.2kbps	4183	836.4	-0.63	0.259	24.50	23.78	1.180	0.306	1.6
Left Tilt	RMC 12.2kbps	4183	836.4	0.77	0.149	24.50	23.78	1.180	0.176	1.6
Right Cheek	RMC 12.2kbps	4183	836.4	-0.87	0.293	24.50	23.78	1.180	0.346	1.6
Right Tilt	RMC 12.2kbps	4183	836.4	-0.74	0.169	24.50	23.78	1.180	0.199	1.6
Body back	RMC 12.2kbps	4132	826.4	1.08	0.884	24.50	23.37	1.297	1.147	1.6
Body back	RMC 12.2kbps	4183	836.4	-0.48	0.885	24.50	23.78	1.180	1.045	1.6
Body back	RMC 12.2kbps	4233	846.6	-0.28	0.896	24.50	24.49	1.002	0.898	1.6
Body front	RMC 12.2kbps	4183	836.4	0.28	0.464	24.50	23.78	1.180	0.548	1.6
Edge 1 (Top)	RMC 12.2kbps	4183	836.4	-0.96	0.030	24.50	23.78	1.180	0.035	1.6
Edge 2(Right)	RMC 12.2kbps	4183	836.4	-0.30	0.488	24.50	23.78	1.180	0.576	1.6
Edge 3(Bottom)	RMC 12.2kbps	4183	836.4	0.38	0.532	24.50	23.78	1.180	0.628	1.6
Edge 4(Left)	RMC 12.2kbps	4183	836.4	-0.29	0.176	24.50	23.78	1.180	0.208	1.6

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SAR MEASUREMENT													
Depth of Liquid (cm):>15													
Product: Smartphone													
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	Left Cheek	1	0	18900	1880	-0.65	0.053	24.00	23.81	1.045	0.055	1.6
		Left Tilt	1	0	18900	1880	0.80	0.063	24.00	23.81	1.045	0.066	1.6
		Right Cheek	1	0	18900	1880	-0.70	0.060	24.00	23.81	1.045	0.063	1.6
		Right Tilt	1	0	18900	1880	0.72	0.025	24.00	23.81	1.045	0.026	1.6
		Body back	1	0	18700	1860	-0.81	0.997	24.00	23.94	1.014	1.011	1.6
		Body back	1	0	18900	1880	-0.77	1.087	24.00	23.81	1.045	1.136	1.6
		Body back	1	0	19100	1900	0.73	0.997	24.00	23.83	1.040	1.037	1.6
		Body front	1	0	18900	1880	-0.73	0.319	24.00	23.81	1.045	0.333	1.6
		Edge 2(Right)	1	0	18900	1880	1.07	0.071	24.00	23.81	1.045	0.074	1.6
		Edge 3(Bottom)	1	0	18700	1860	-0.27	0.941	24.00	23.94	1.014	0.954	1.6
		Edge 3(Bottom)	1	0	18900	1880	0.40	0.937	24.00	23.81	1.045	0.979	1.6
		Edge 3(Bottom)	1	0	19100	1900	0.34	0.939	24.00	23.83	1.040	0.976	1.6
		Edge 4(Left)	1	0	18900	1880	0.85	0.213	24.00	23.81	1.045	0.223	1.6

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SAR MEASUREMENT													
Depth of Liquid (cm):>15													
Product: Smartphone													
Test Mode: LTE Band 4													
BM MHz	MOD	Position	Test Mode		Ch.	Freq. (MHz)	Power Drift ($\pm 5\%$)	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	Left Cheek	1	0	20175	1732.5	-0.88	0.050	24.30	23.74	1.138	0.057	1.6
		Left Tilt	1	0	20175	1732.5	0.83	0.021	24.30	23.74	1.138	0.024	1.6
		Right Cheek	1	0	20175	1732.5	-0.84	0.079	24.30	23.74	1.138	0.090	1.6
		Right Tilt	1	0	20175	1732.5	-0.66	0.027	24.30	23.74	1.138	0.031	1.6
		Body back	1	0	20175	1732.5	0.86	0.658	24.30	23.74	1.138	0.749	1.6
		Body front	1	0	20175	1732.5	-0.81	0.331	24.30	23.74	1.138	0.377	1.6
		Edge 2(Right)	1	0	20175	1732.5	0.89	0.124	24.30	23.74	1.138	0.141	1.6
		Edge 3(Bottom)	1	0	20050	1720	-0.66	0.898	24.30	23.84	1.112	0.998	1.6
		Edge 3(Bottom)	1	0	20175	1732.5	-0.89	0.888	24.30	23.74	1.138	1.010	1.6
		Edge 3(Bottom)	1	0	20300	1745	0.30	0.916	24.30	23.98	1.076	0.986	1.6
		Edge 4(Left)	1	0	20175	1732.5	-0.36	0.038	24.30	23.74	1.138	0.043	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.
- The test separation for body back, body front and 4 Edges is 10mm of all above table

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SAR MEASUREMENT										
Depth of Liquid (cm):>15										
Product: Smartphone										
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)
Left Cheek	DTS	6	2437	-0.77	0.618	16.00	15.88	1.028	0.635	1.6
Left Tilt	DTS	1	2412	-0.67	0.737	16.00	15.93	1.016	0.749	1.6
Left Tilt	DTS	6	2437	0.63	0.747	16.00	15.88	1.028	0.768	1.6
Left Tilt	DTS	11	2462	-0.77	0.756	16.00	15.22	1.197	0.905	1.6
Right Cheek	DTS	6	2437	0.77	0.364	16.00	15.88	1.028	0.374	1.6
Right Tilt	DTS	6	2437	-0.72	0.614	16.00	15.88	1.028	0.631	1.6
Body back	DTS	6	2437	0.81	0.227	16.00	15.88	1.028	0.233	1.6
Body front	DTS	6	2437	-0.21	0.157	16.00	15.88	1.028	0.161	1.6
Edge 1 (Top)	DTS	6	2437	0.35	0.191	16.00	15.88	1.028	0.196	1.6
Edge 2(Right)	DTS	6	2437	0.12	0.079	16.00	15.88	1.028	0.081	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.
- The test separation for body back, body front and 4 Edges is 10mm of all above table.

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SAR MEASUREMENT									
Depth of Liquid (cm):>15									
Product: Smartphone									
Test Mode: 5.2GHz WIFI-802.11a									
Position	Ch.	Fr. (MHz)	Power Drift ($\leq \pm 5\%$)	SAR (1g) (W/kg)	Max. Tune-up Power (dBm)	Meas. Output Power (dBm)	Tune-up Scaling factor	Scaled SAR (W/kg)	Limit (W/kg)
Left Cheek	40	5200	-0.85	0.492	14.70	14.13	1.140	0.561	1.6
Left Tilt	40	5200	-0.77	0.496	14.70	14.13	1.140	0.566	1.6
Right Cheek	40	5200	0.86	0.297	14.70	14.13	1.140	0.339	1.6
Right Tilt	40	5200	-0.83	0.452	14.70	14.13	1.140	0.515	1.6
Body back	40	5200	-0.76	0.207	14.70	14.13	1.140	0.236	1.6
Body front	40	5200	-0.62	0.247	14.70	14.13	1.140	0.282	1.6
Edge 1 (Top)	40	5200	0.85	0.330	14.70	14.13	1.140	0.376	1.6
Edge 2(Right)	40	5200	0.35	0.154	14.70	14.13	1.140	0.176	1.6

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SAR MEASUREMENT									
Depth of Liquid (cm):>15									
Product: Smartphone									
Test Mode: 5.3GHz WIFI-802.11a									
Position	Ch.	Fr. (MHz)	Power Drift ($\pm 5\%$)	SAR (1g) (W/kg)	Max. Tune-up Power (dBm)	Meas. Output Power (dBm)	Tune-up Scaling factor	Scaled SAR (W/kg)	Limit (W/kg)
Left Cheek	60	5300	-0.72	0.465	15.40	15.01	1.094	0.509	1.6
Left Tilt	60	5300	-0.82	0.527	15.40	15.01	1.094	0.577	1.6
Right Cheek	60	5300	0.80	0.329	15.40	15.01	1.094	0.360	1.6
Right Tilt	60	5300	-0.76	0.398	15.40	15.01	1.094	0.435	1.6
Body back	60	5300	-0.91	0.240	15.40	15.01	1.094	0.263	1.6
Body front	60	5300	0.61	0.233	15.40	15.01	1.094	0.255	1.6
Edge 1 (Top)	60	5300	-0.74	0.401	15.40	15.01	1.094	0.439	1.6
Edge 2 (Right)	60	5300	0.85	0.146	15.40	15.01	1.094	0.160	1.6

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SAR MEASUREMENT									
Depth of Liquid (cm):>15									
Product: Smartphone									
Test Mode: 5.6GHzWIFI- 802.11a									
Position	Ch.	Fr. (MHz)	Power Drift ($\leq \pm 5\%$)	SAR (1g) (W/kg)	Max. Tune-up Power (dBm)	Meas. Output Power (dBm)	Tune-up Scaling factor	Scaled SAR (W/kg)	Limit (W/kg)
Left Cheek	116	5580	-0.61	0.329	13.80	13.39	1.099	0.362	1.6
Left Tilt	116	5580	-0.60	0.365	13.80	13.39	1.099	0.401	1.6
Right Cheek	116	5580	-0.89	0.338	13.80	13.39	1.099	0.371	1.6
Right Tilt	116	5580	0.92	0.478	13.80	13.39	1.099	0.525	1.6
Body back	116	5580	-0.89	0.192	13.80	13.39	1.099	0.211	1.6
Body front	116	5580	-0.63	0.164	13.80	13.39	1.099	0.180	1.6
Edge 1 (Top)	116	5580	-1.04	0.302	13.80	13.39	1.099	0.332	1.6
Edge 2 (Right)	116	5580	0.06	0.071	13.80	13.39	1.099	0.078	1.6

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SAR MEASUREMENT									
Depth of Liquid (cm):>15									
Product: Smartphone									
Test Mode: 5.8GHz WIFI-802.11a									
Position	Ch.	Fr. (MHz)	Power Drift ($\pm 5\%$)	SAR (1g) (W/kg)	Max. Tune-up Power (dBm)	Meas. Output Power (dBm)	Tune-up Scaling factor	Scaled SAR (W/kg)	Limit (W/kg)
Left Cheek	157	5785	-0.77	0.121	15.30	15.07	1.054	0.128	1.6
Left Tilt	157	5785	-0.76	0.127	15.30	15.07	1.054	0.134	1.6
Right Cheek	157	5785	-0.81	0.098	15.30	15.07	1.054	0.103	1.6
Right Tilt	157	5785	0.65	0.125	15.30	15.07	1.054	0.132	1.6
Body back	157	5785	-0.81	0.106	15.30	15.07	1.054	0.112	1.6
Body front	157	5785	0.79	0.053	15.30	15.07	1.054	0.056	1.6
Edge 1 (Top)	157	5785	-0.72	0.212	15.30	15.07	1.054	0.224	1.6
Edge 2 (Right)	157	5785	0.66	0.069	15.30	15.07	1.054	0.073	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.
- The test separation for body back, body front and 4 Edges is 10mm of all above table

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Repeated SAR											
Product: Smartphone											
Test Mode: GSM850& WCDMA Band II & WCDMA Band V & LTE Band 2& LTE Band 4											
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	GPRS-4 slot		251	848.8	-0.13	1.063	--	--	--	--	1.6
Body back	RMC 12.2kbps		9400	1880	0.12	1.018	--	--	--	--	1.6
Body back	RMC 12.2kbps		4233	846.6	-0.08	0.884	--	--	--	--	1.6
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
	UL RB Allocation	UL RB START									
Body back	1	0	18900	1880	0.15	1.001	--	--	--	--	1.6
Edge 3(Bottom)	1	0	20300	1745	-0.22	0.907	--	--	--	--	1.6

The second repeated SAR judge reference									
Product: Smartphone									
Band	Position	Mode		Ch.	Fr. (MHz)	Orignal SAR (1g) (W/kg)	First SAR (1g) (W/kg)	Ratio	Limit
GSM850	Body back	GPRS-4 slot		251	848.8	1.074	1.063	1.010	<1.2
WCDMA Band II	Body back	RMC 12.2kbps		9400	1880	1.148	1.018	1.128	<1.2
WCDMA Band V	Body back	RMC 12.2kbps		4233	846.6	0.896	0.884	1.014	<1.2
Band	Position	Mode		Ch.	Fr. (MHz)	Orignal SAR (1g) (W/kg)	First SAR (1g) (W/kg)	Ratio	Limit
		UL RB Allocation	UL RB START						
LTE Band 2	Body back	1	0	18900	1880	1.087	1.001	1.086	<1.2
LTE Band 4	Edge 3(Bottom)	1	0	20300	1745	0.916	0.907	1.010	<1.2

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Simultaneous Multi-band Transmission Evaluation:
Application Simultaneous Transmission information:

NO	Simultaneous state	Portable Handset		
		Head	Body-worn	Hotspot
1	GSM(voice)+ WLAN 2.4GHz/ 5GHz (data)	Yes	Yes	-
2	GSM(voice)+ Bluetooth(data)	Yes	Yes	-
3	GSM (Data) + WLAN 2.4GHz/ 5GHz (data)	-	Yes	Yes
4	GSM (Data) + Bluetooth(data)	-	Yes	Yes
5	WCDMA+ WLAN 2.4GHz/ 5GHz (data)	Yes	Yes	Yes
6	WCDMA+ Bluetooth(data)	Yes	Yes	Yes
7	LTE + WLAN 2.4GHz/ 5GHz (data)	Yes	Yes	Yes
8	LTE + Bluetooth(data)	Yes	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 0mm for head SAR and 10mm 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
$$(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm}) \cdot [\sqrt{f(\text{GHz})} / x] \text{ W/kg}$$
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	Head	3	1.996	0	0.082
	Body	3	1.996	10	0.041

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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	Wi-Fi DTS Band	Bluetooth		
Head (voice)	Left Touch	0.340	0.635		0.975	No
	Left Tilt	0.219	0.905		1.124	No
	Right Touch	0.406	0.374		0.780	No
	Right Tilt	0.216	0.631		0.847	No
Head (voice)	Left Touch	0.340		0.082	0.422	No
	Left Tilt	0.219		0.082	0.301	No
	Right Touch	0.406		0.082	0.488	No
	Right Tilt	0.216		0.082	0.298	No
Body-worn (voice)	Rear	0.946	0.233		1.179	No
		0.946		0.041	0.987	No
	Front	0.437	0.161		0.598	No
		0.437		0.041	0.478	No
Body-worn (Data)	Rear	1.180		0.041	1.221	No
		1.180	0.233		1.413	No
	Front	0.624		0.041	0.665	No
		0.624	0.161		0.785	No
Body-worn (Hotspot)	Edge 2	0.541	0.081		0.622	No
	Edge 2	0.541		0.041	0.582	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ 1-g SAR (W/kg)	SPLSR (Yes/No)
		GSM 850	5.2GHz Wi-Fi Band	5.3GHz Wi-Fi Band		
Head (voice)	Left Touch	0.340	0.561		0.901	No
	Left Tilt	0.219	0.566		0.785	No
	Right Touch	0.406	0.339		0.745	No
	Right Tilt	0.216	0.515		0.731	No
Head (voice)	Left Touch	0.340		0.509	0.849	No
	Left Tilt	0.219		0.577	0.796	No
	Right Touch	0.406		0.360	0.766	No
	Right Tilt	0.216		0.435	0.651	No
Body-worn (voice)	Rear	0.946	0.236		1.182	No
		0.946		0.263	1.209	No
	Front	0.437	0.282		0.719	No
		0.437		0.255	0.692	No
Body-worn (Data)	Rear	1.180		0.263	1.443	No
		1.180	0.236		1.416	No
	Front	0.624		0.255	0.879	No
		0.624	0.282		0.906	No
Body-worn (Hotspot)	Edge 2	0.541	0.176		0.717	No
	Edge 2	0.541		0.160	0.701	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ 1-g SAR (W/kg)	SPLSR (Yes/No)
		GSM 850	5.6GHz Wi-Fi Band	5.8GHz Wi-Fi Band		
Head (voice)	Left Touch	0.340	0.362		0.702	No
	Left Tilt	0.219	0.401		0.620	No
	Right Touch	0.406	0.371		0.777	No
	Right Tilt	0.216	0.525		0.741	No
Head (voice)	Left Touch	0.340		0.128	0.468	No
	Left Tilt	0.219		0.134	0.353	No
	Right Touch	0.406		0.103	0.509	No
	Right Tilt	0.216		0.132	0.348	No
Body-worn (voice)	Rear	0.946	0.211		1.157	No
		0.946		0.112	1.058	No
	Front	0.437	0.180		0.617	No
		0.437		0.056	0.493	No
Body-worn (Data)	Rear	1.180		0.112	1.292	No
		1.180	0.211		1.391	No
	Front	0.624		0.056	0.680	No
		0.624	0.180		0.804	No
Body-worn (Hotspot)	Edge 2	0.541	0.078		0.619	No
	Edge 2	0.541		0.073	0.614	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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Sum of the SAR for PCS 1900 & Wi-Fi & BT:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ 1-g SAR (W/kg)	SPLSR (Yes/No)
		PCS 1900	Wi-Fi DTS Band	Bluetooth		
Head (voice)	Left Touch	0.056	0.635		0.691	No
	Left Tilt	0.029	0.905		0.934	No
	Right Touch	0.048	0.374		0.422	No
	Right Tilt	0.012	0.631		0.643	No
Head (voice)	Left Touch	0.056		0.082	0.138	No
	Left Tilt	0.029		0.082	0.111	No
	Right Touch	0.048		0.082	0.130	No
	Right Tilt	0.012		0.082	0.094	No
Body-worn (voice)	Rear	0.601	0.233		0.834	No
		0.601		0.041	0.642	No
	Front	0.190	0.161		0.351	No
		0.190		0.041	0.231	No
Body-worn (Data)	Rear	0.795		0.041	0.836	No
		0.795	0.233		1.028	No
	Front	0.257		0.041	0.298	No
		0.257	0.161		0.418	No
Body-worn (Hotspot)	Edge 2	0.067	0.081		0.148	No
	Edge 2	0.067		0.041	0.108	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ 1-g SAR (W/kg)	SPLSR (Yes/No)
		PCS 1900	5.2GHz Wi-Fi Band	5.3GHz Wi-Fi Band		
Head (voice)	Left Touch	0.056	0.561		0.617	No
	Left Tilt	0.029	0.566		0.595	No
	Right Touch	0.048	0.339		0.387	No
	Right Tilt	0.012	0.515		0.527	No
Head (voice)	Left Touch	0.056		0.509	0.565	No
	Left Tilt	0.029		0.577	0.606	No
	Right Touch	0.048		0.360	0.408	No
	Right Tilt	0.012		0.435	0.447	No
Body-worn (voice)	Rear	0.601	0.236		0.837	No
		0.601		0.263	0.864	No
	Front	0.190	0.282		0.472	No
		0.190		0.255	0.445	No
Body-worn (Data)	Rear	0.795		0.263	1.058	No
		0.795	0.236		1.031	No
	Front	0.257		0.255	0.512	No
		0.257	0.282		0.539	No
Body-worn (Hotspot)	Edge 2	0.067	0.176		0.243	No
	Edge 2	0.067		0.160	0.227	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ 1-g SAR (W/kg)	SPLSR (Yes/No)
		PCS 1900	5.6GHz Wi-Fi Band	5.8GHz Wi-Fi Band		
Head (voice)	Left Touch	0.056	0.362		0.418	No
	Left Tilt	0.029	0.401		0.430	No
	Right Touch	0.048	0.371		0.419	No
	Right Tilt	0.012	0.525		0.537	No
Head (voice)	Left Touch	0.056		0.128	0.184	No
	Left Tilt	0.029		0.134	0.163	No
	Right Touch	0.048		0.103	0.151	No
	Right Tilt	0.012		0.132	0.144	No
Body-worn (voice)	Rear	0.601	0.211		0.812	No
		0.601		0.112	0.713	No
	Front	0.190	0.180		0.370	No
		0.190		0.056	0.246	No
Body-worn (Data)	Rear	0.795		0.112	0.907	No
		0.795	0.211		1.006	No
	Front	0.257		0.056	0.313	No
		0.257	0.180		0.437	No
Body-worn (Hotspot)	Edge 2	0.067	0.078		0.145	No
	Edge 2	0.067		0.073	0.140	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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Sum of the SAR for WCDMA Band II & Wi-Fi & BT:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ 1-g SAR (W/kg)	SPLSR (Yes/No)
		WCDMA Band II	Wi-Fi DTS Band	Bluetooth		
Head	Left Touch	0.195	0.635		0.830	No
	Left Tilt	0.098	0.905		1.003	No
	Right Touch	0.227	0.374		0.601	No
	Right Tilt	0.051	0.631		0.682	No
Head	Left Touch	0.195		0.082	0.277	No
	Left Tilt	0.098		0.082	0.180	No
	Right Touch	0.227		0.082	0.309	No
	Right Tilt	0.051		0.082	0.133	No
Body-worn	Rear	1.180	0.233		1.413	No
	Front	0.287	0.161		0.448	No
	Edge 2	0.162	0.081		0.243	No
	Rear	1.180		0.041	1.221	No
	Front	0.287		0.041	0.328	No
	Edge 2	0.162		0.041	0.203	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ 1-g SAR (W/kg)	SPLSR (Yes/No)
		WCDMA Band II	5.2GHz Wi-Fi Band	5.3GHz Wi-Fi Band		
Head	Left Touch	0.195	0.561		0.756	No
	Left Tilt	0.098	0.566		0.664	No
	Right Touch	0.227	0.339		0.566	No
	Right Tilt	0.051	0.515		0.566	No
Head	Left Touch	0.195		0.509	0.704	No
	Left Tilt	0.098		0.577	0.675	No
	Right Touch	0.227		0.360	0.587	No
	Right Tilt	0.051		0.435	0.486	No
Body-worn	Rear	1.180	0.236		1.416	No
	Front	0.287	0.282		0.569	No
	Edge 2	0.162	0.176		0.338	No
	Rear	1.180		0.263	1.443	No
	Front	0.287		0.255	0.542	No
	Edge 2	0.162		0.160	0.322	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ 1-g SAR (W/kg)	SPLSR (Yes/No)
		WCDMA Band II	5.6GHz Wi-Fi Band	5.8GHz Wi-Fi Band		
Head	Left Touch	0.195	0.362		0.557	No
	Left Tilt	0.098	0.401		0.499	No
	Right Touch	0.227	0.371		0.598	No
	Right Tilt	0.051	0.525		0.576	No
Head	Left Touch	0.195		0.128	0.323	No
	Left Tilt	0.098		0.134	0.232	No
	Right Touch	0.227		0.103	0.330	No
	Right Tilt	0.051		0.132	0.183	No
Body-worn	Rear	1.180	0.211		1.391	No
	Front	0.287	0.180		0.467	No
	Edge 2	0.162	0.078		0.240	No
	Rear	1.180		0.112	1.292	No
	Front	0.287		0.056	0.343	No
	Edge 2	0.162		0.073	0.235	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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Sum of the SAR for WCDMA Band V & Wi-Fi & BT:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ 1-g SAR (W/kg)	SPLSR (Yes/No)
		WCDMA Band V	Wi-Fi DTS Band	Bluetooth		
Head	Left Touch	0.306	0.635		0.941	No
	Left Tilt	0.176	0.905		1.081	No
	Right Touch	0.346	0.374		0.720	No
	Right Tilt	0.199	0.631		0.830	No
Head	Left Touch	0.306		0.082	0.388	No
	Left Tilt	0.176		0.082	0.258	No
	Right Touch	0.346		0.082	0.428	No
	Right Tilt	0.199		0.082	0.281	No
Body-worn	Rear	1.147	0.233		1.380	No
	Front	0.548	0.161		0.709	No
	Edge 2	0.576	0.081		0.657	No
	Rear	1.147		0.041	1.188	No
	Front	0.548		0.041	0.589	No
	Edge 2	0.576		0.041	0.617	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ 1-g SAR (W/kg)	SPLSR (Yes/No)
		WCDMA Band V	5.2GHz Wi-Fi Band	5.3GHz Wi-Fi Band		
Head	Left Touch	0.306	0.561		0.867	No
	Left Tilt	0.176	0.566		0.742	No
	Right Touch	0.346	0.339		0.685	No
	Right Tilt	0.199	0.515		0.714	No
Head	Left Touch	0.306		0.509	0.815	No
	Left Tilt	0.176		0.577	0.753	No
	Right Touch	0.346		0.360	0.706	No
	Right Tilt	0.199		0.435	0.634	No
Body-worn	Rear	1.147	0.236		1.383	No
	Front	0.548	0.282		0.830	No
	Edge 2	0.576	0.176		0.752	No
	Rear	1.147		0.263	1.410	No
	Front	0.548		0.255	0.803	No
	Edge 2	0.576		0.160	0.736	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ 1-g SAR (W/kg)	SPLSR (Yes/No)
		WCDMA Band V	5.6GHz Wi-Fi Band	5.8GHz Wi-Fi Band		
Head	Left Touch	0.306	0.362		0.668	No
	Left Tilt	0.176	0.401		0.577	No
	Right Touch	0.346	0.371		0.717	No
	Right Tilt	0.199	0.525		0.724	No
Head	Left Touch	0.306		0.128	0.434	No
	Left Tilt	0.176		0.134	0.310	No
	Right Touch	0.346		0.103	0.449	No
	Right Tilt	0.199		0.132	0.331	No
Body-worn	Rear	1.147	0.211		1.358	No
	Front	0.548	0.180		0.728	No
	Edge 2	0.576	0.078		0.654	No
	Rear	1.147		0.112	1.259	No
	Front	0.548		0.056	0.604	No
	Edge 2	0.576		0.073	0.649	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.
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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	Wi-Fi DTS Band	Bluetooth		
Head	Left Touch	0.055	0.635		0.690	No
	Left Tilt	0.066	0.905		0.971	No
	Right Touch	0.063	0.374		0.437	No
	Right Tilt	0.026	0.631		0.657	No
Head	Left Touch	0.055		0.082	0.137	No
	Left Tilt	0.066		0.082	0.148	No
	Right Touch	0.063		0.082	0.145	No
	Right Tilt	0.026		0.082	0.108	No
Body-worn	Rear	1.136	0.233		1.369	No
	Front	0.333	0.161		0.494	No
	Edge 2	0.074	0.081		0.155	No
	Rear	1.136		0.041	1.177	No
	Front	0.333		0.041	0.374	No
	Edge 2	0.074		0.041	0.115	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ 1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 2	5.2GHz Wi-Fi Band	5.3GHz Wi-Fi Band		
Head	Left Touch	0.055	0.561		0.616	No
	Left Tilt	0.066	0.566		0.632	No
	Right Touch	0.063	0.339		0.402	No
	Right Tilt	0.026	0.515		0.541	No
Head	Left Touch	0.055		0.509	0.564	No
	Left Tilt	0.066		0.577	0.643	No
	Right Touch	0.063		0.360	0.423	No
	Right Tilt	0.026		0.435	0.461	No
Body-worn	Rear	1.136	0.236		1.372	No
	Front	0.333	0.282		0.615	No
	Edge 2	0.074	0.176		0.250	No
	Rear	1.136		0.263	1.399	No
	Front	0.333		0.255	0.588	No
	Edge 2	0.074		0.160	0.234	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ 1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 2	5.6GHz Wi-Fi Band	5.8GHz Wi-Fi Band		
Head	Left Touch	0.055	0.362		0.417	No
	Left Tilt	0.066	0.401		0.467	No
	Right Touch	0.063	0.371		0.434	No
	Right Tilt	0.026	0.525		0.551	No
Head	Left Touch	0.055		0.128	0.183	No
	Left Tilt	0.066		0.134	0.200	No
	Right Touch	0.063		0.103	0.166	No
	Right Tilt	0.026		0.132	0.158	No
Body-worn	Rear	1.136	0.211		1.347	No
	Front	0.333	0.180		0.513	No
	Edge 2	0.074	0.078		0.152	No
	Rear	1.136		0.112	1.248	No
	Front	0.333		0.056	0.389	No
	Edge 2	0.074		0.073	0.147	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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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	Wi-Fi DTS Band	Bluetooth		
Head	Left Touch	0.057	0.635		0.692	No
	Left Tilt	0.024	0.905		0.929	No
	Right Touch	0.090	0.374		0.464	No
	Right Tilt	0.031	0.631		0.662	No
Head	Left Touch	0.057		0.082	0.139	No
	Left Tilt	0.024		0.082	0.106	No
	Right Touch	0.090		0.082	0.172	No
	Right Tilt	0.031		0.082	0.113	No
Body-worn	Rear	0.749	0.233		0.982	No
	Front	0.377	0.161		0.538	No
	Edge 2	0.141	0.081		0.222	No
	Rear	0.749		0.041	0.790	No
	Front	0.377		0.041	0.418	No
	Edge 2	0.141		0.041	0.182	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ 1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 4	5.2GHz Wi-Fi Band	5.3GHz Wi-Fi Band		
Head	Left Touch	0.057	0.561		0.618	No
	Left Tilt	0.024	0.566		0.590	No
	Right Touch	0.090	0.339		0.429	No
	Right Tilt	0.031	0.515		0.546	No
Head	Left Touch	0.057		0.509	0.566	No
	Left Tilt	0.024		0.577	0.601	No
	Right Touch	0.090		0.360	0.450	No
	Right Tilt	0.031		0.435	0.466	No
Body-worn	Rear	0.749	0.236		0.985	No
	Front	0.377	0.282		0.659	No
	Edge 2	0.141	0.176		0.317	No
	Rear	0.749		0.263	1.012	No
	Front	0.377		0.255	0.632	No
	Edge 2	0.141		0.160	0.301	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ 1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 4	5.6GHz Wi-Fi Band	5.8GHz Wi-Fi Band		
Head	Left Touch	0.057	0.362		0.419	No
	Left Tilt	0.024	0.401		0.425	No
	Right Touch	0.090	0.371		0.461	No
	Right Tilt	0.031	0.525		0.556	No
Head	Left Touch	0.057		0.128	0.185	No
	Left Tilt	0.024		0.134	0.158	No
	Right Touch	0.090		0.103	0.193	No
	Right Tilt	0.031		0.132	0.163	No
Body-worn	Rear	0.749	0.211		0.960	No
	Front	0.377	0.180		0.557	No
	Edge 2	0.141	0.078		0.219	No
	Rear	0.749		0.112	0.861	No
	Front	0.377		0.056	0.433	No
	Edge 2	0.141		0.073	0.214	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: Sep. 20, 2025

System Check Head 835 MHz

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: $f = 835$ MHz; $\sigma = 0.91$ mho/m; $\epsilon_r = 40.87$; $\rho = 1000$ kg/m³ ;

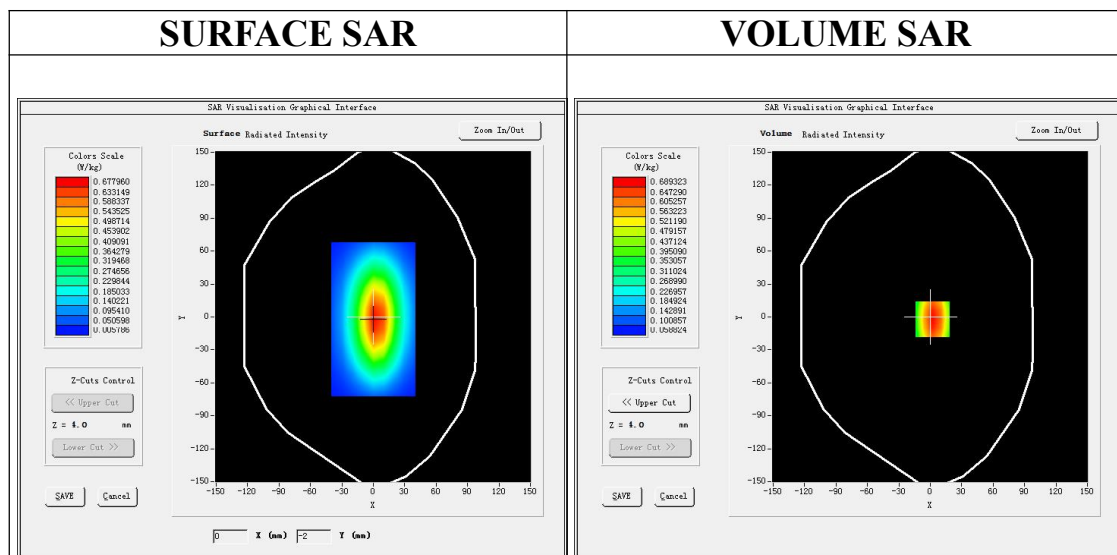
Phantom section: Flat Section; Input Power=18dBm

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 V5.3.15.8

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=2.00, Y=-2.00

SAR Peak: 0.94 W/kg

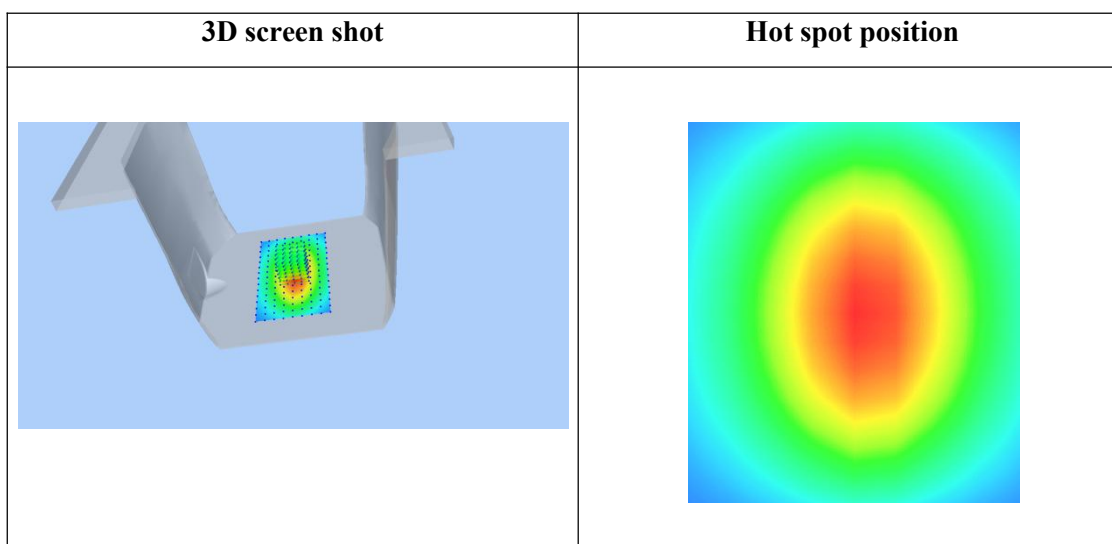
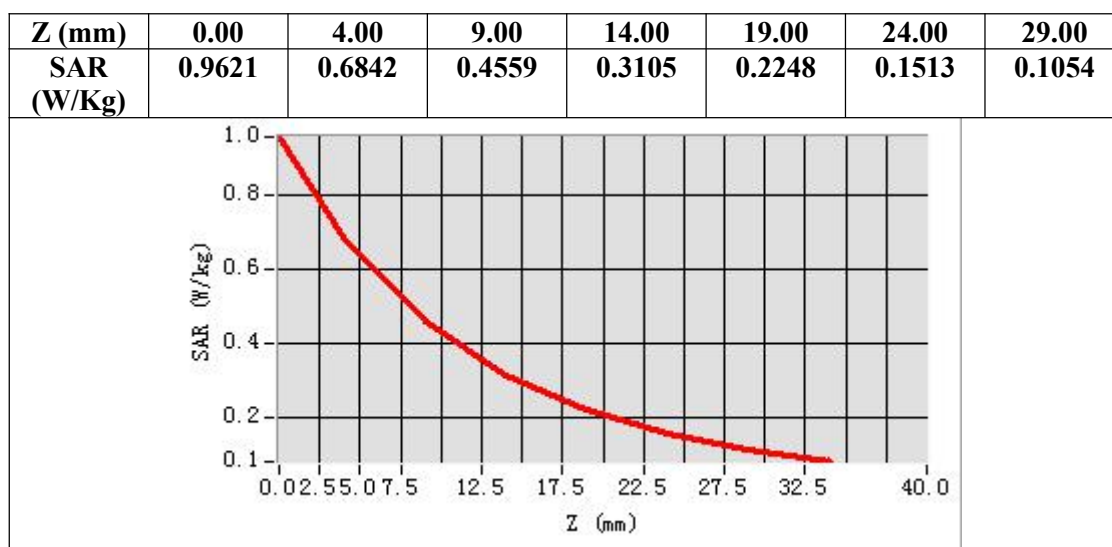
SAR 10g (W/Kg)	0.400359
SAR 1g (W/Kg)	0.639277

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Test Laboratory: AGC Lab

Date: Sep. 22, 2025

System Check Head 1750MHz

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: $f = 1750\text{MHz}$; $\sigma = 1.34 \text{ mho/m}$; $\epsilon_r = 39.11$; $\rho = 1000 \text{ kg/m}^3$;

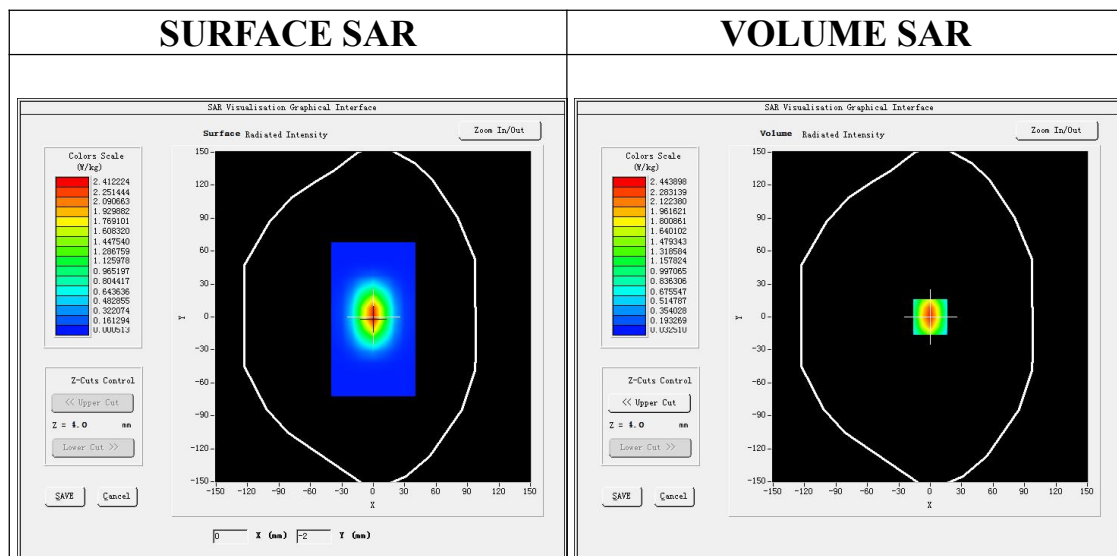
Phantom section: Flat Section; Input Power=18dBm

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 V5.3.15.8

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=0.00, Y=0.00

SAR Peak: 3.97 W/kg

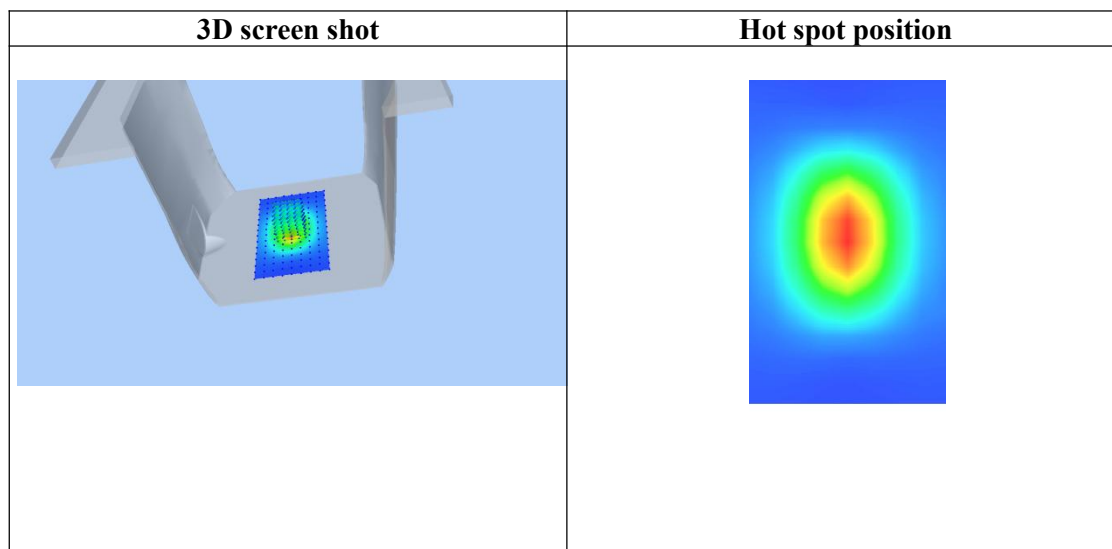
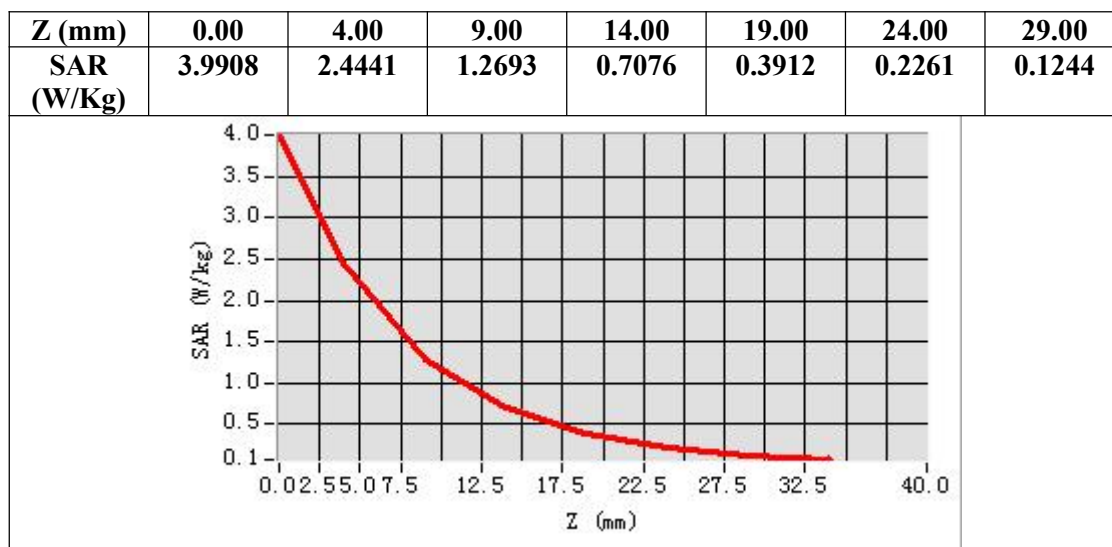
SAR 10g (W/Kg)	1.165419
SAR 1g (W/Kg)	2.303352

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Test Laboratory: AGC Lab
System Check Head 1900MHz
DUT: Dipole 1900 MHz; Type: SID 1900

Date: Sep. 23, 2025

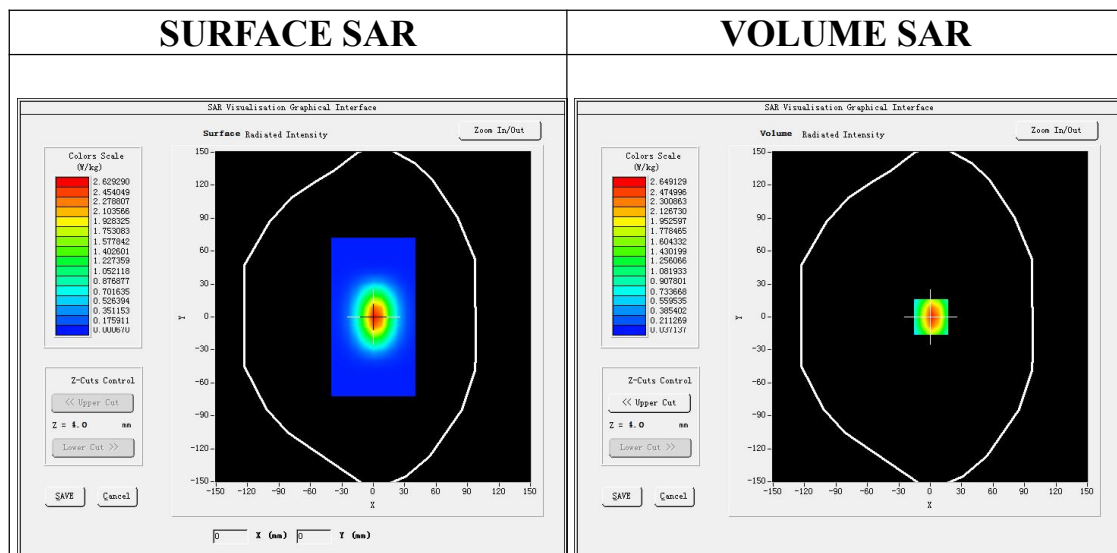
Communication System: CW; Communication System Band: D1900 (1900.0 MHz); Duty Cycle:1:1; Conv.F=2.25
Frequency: 1900 MHz; Medium parameters used: $f = 1900$ MHz; $\sigma = 1.35$ mho/m; $\epsilon_r = 39.06$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section; Input Power=18dBm

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 V5.3.15.8

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



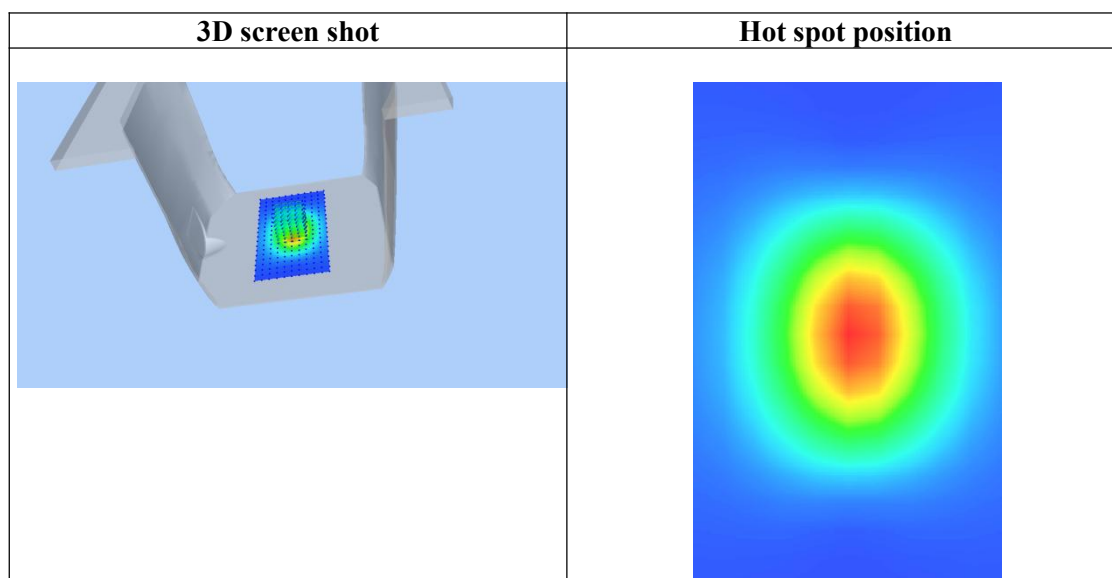
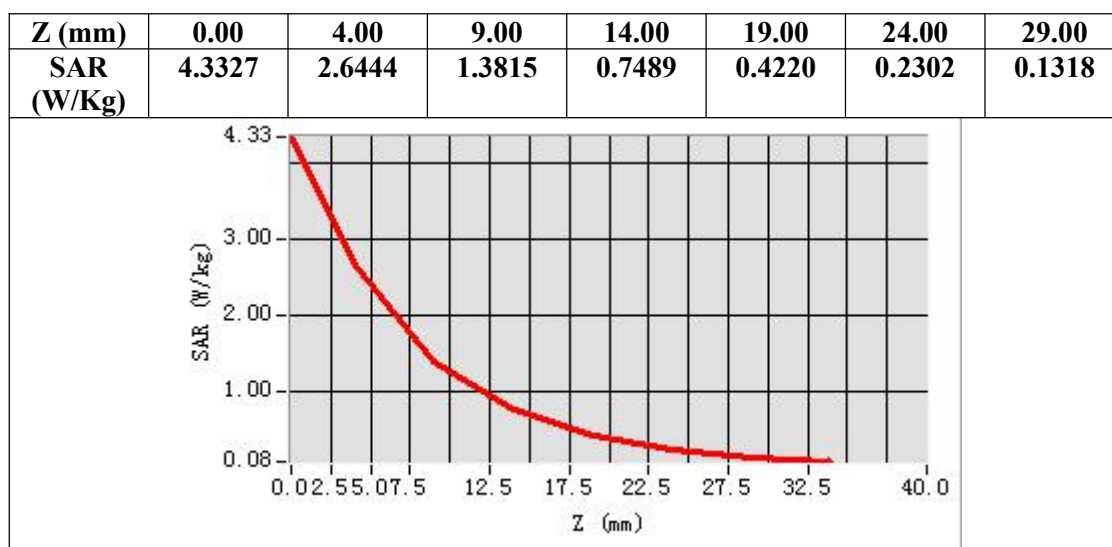
Maximum location: X=1.00, Y=0.00

SAR Peak: 4.31 W/kg

SAR 10g (W/Kg)	1.263804
SAR 1g (W/Kg)	2.510396

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Test Laboratory: AGC Lab

Date: Sep. 24, 2025

System Check Head 2450 MHz

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; $\sigma = 1.78$ mho/m; $\epsilon_r = 38.57$; $\rho = 1000$ kg/m³ ;

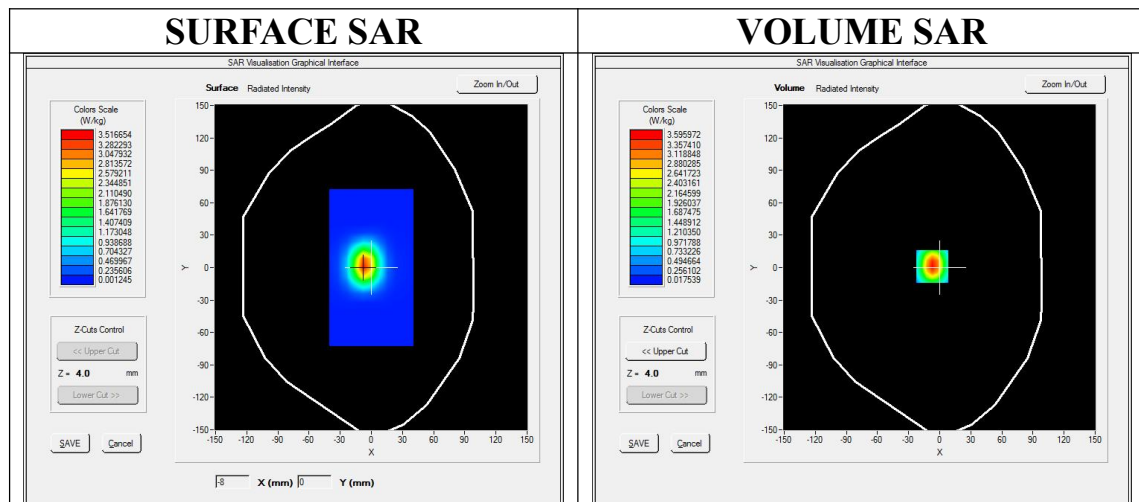
Phantom section: Flat Section; Input Power=18dBm

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 V5.3.15.8

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=-7.00, Y=1.00

SAR Peak: 6.17 W/kg

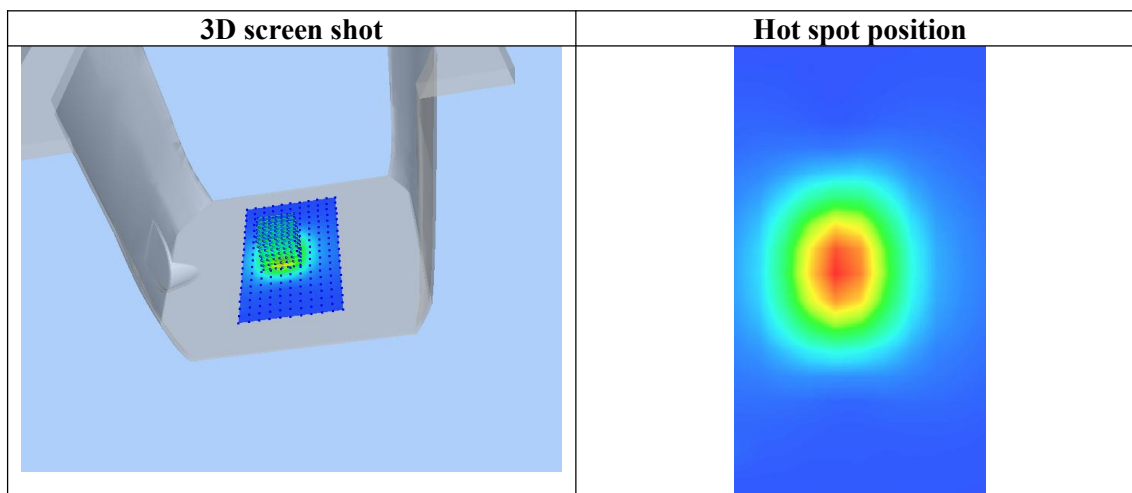
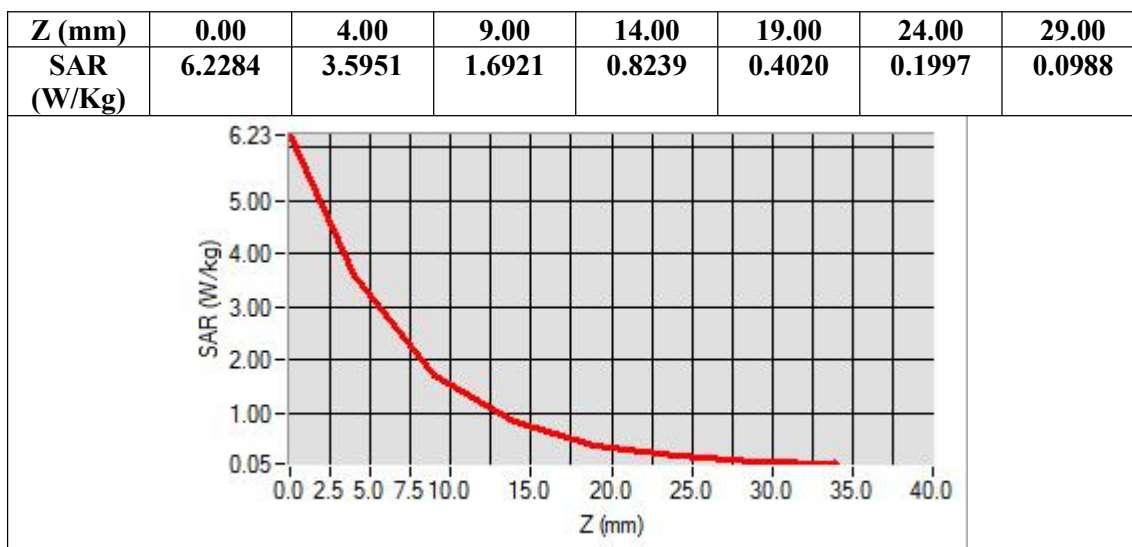
SAR 10g (W/Kg)	1.497119
SAR 1g (W/Kg)	3.316052

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Test Laboratory: AGC Lab

Date: Sep. 25, 2025

System Check 5200 MHz

DUT: Dipole 5000MHz Type: SID5000

Communication System: CW; Communication System Band: D5000 (5000.0 MHz); Duty Cycle: 1:1; Conv.F=1.54

Frequency: 5200 MHz; Medium parameters used: $f = 5250$ MHz; $\sigma = 4.65$ mho/m; $\epsilon_r = 35.79$; $\rho = 1000$ kg/m³ ;

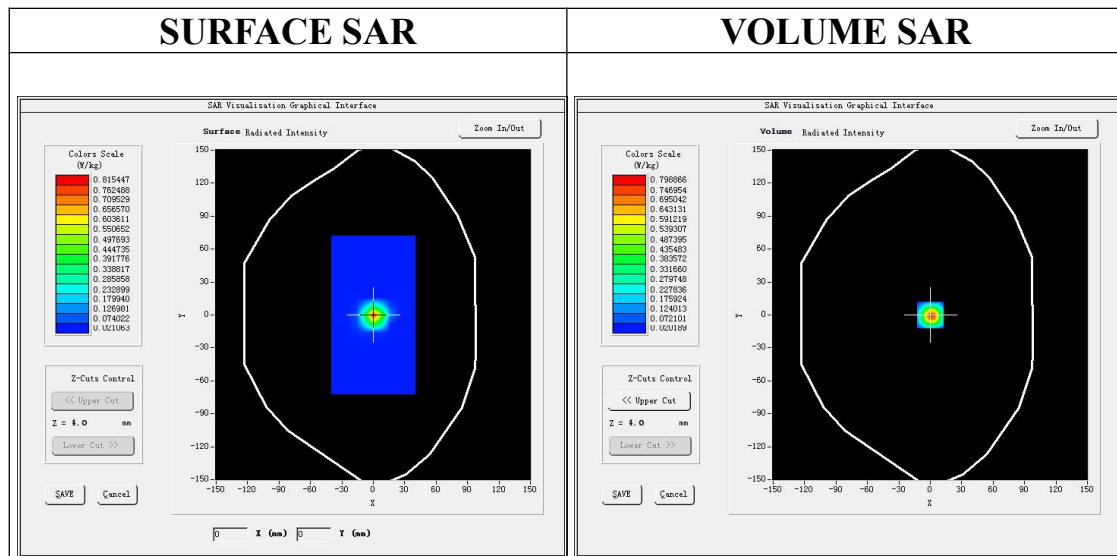
Phantom section: Flat Section; Input Power=10dBm

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 V5.3.15.8

Configuration/System Check 5200 MHz Body/Area Scan: Measurement grid: dx=8mm, dy=8mm

Configuration/System Check 5200 MHz Body/Zoom Scan: Measurement grid: dx=4mm,dy=4mm, dz=2mm



Maximum location: X=0.00, Y=0.00

SAR Peak: 2.26 W/kg

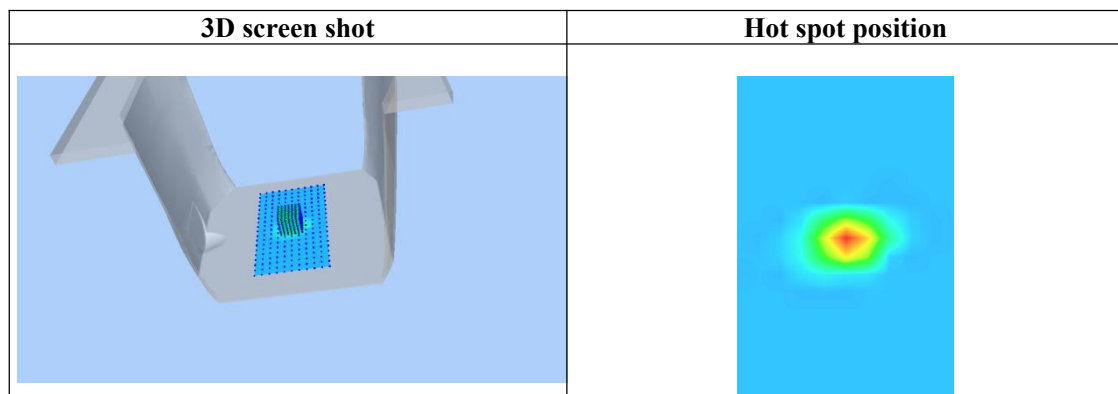
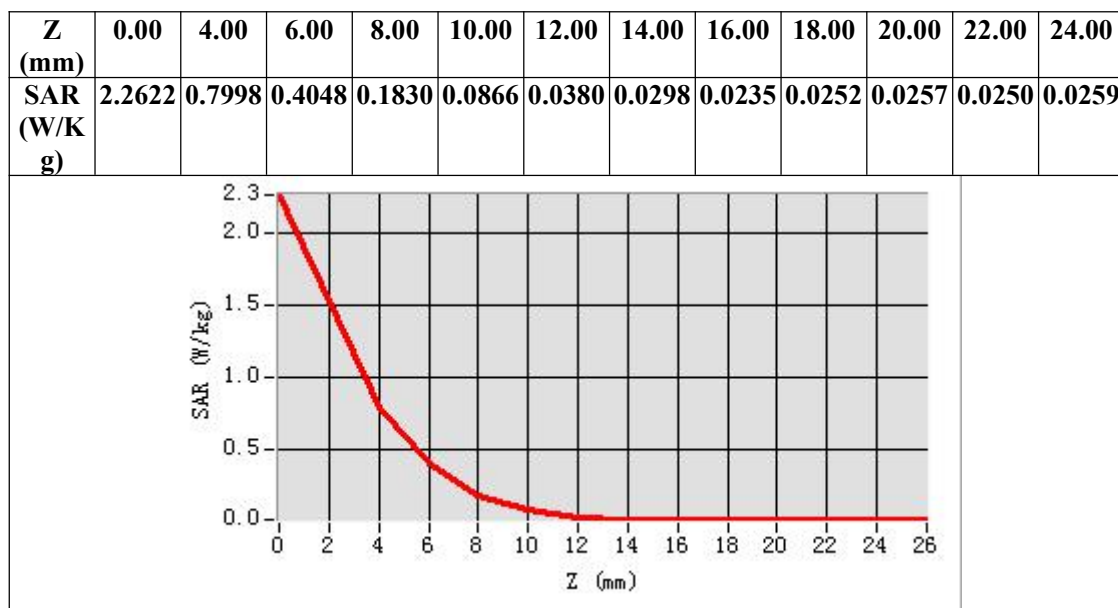
SAR 10g (W/Kg)	0.215807
SAR 1g (W/Kg)	0.747393

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Test Laboratory: AGC Lab

Date: Sep. 26, 2025

System Check Head 5300 MHz

DUT: Dipole 5000MHz Type: SID5000

Communication System: CW; Communication System Band: D5000 (5000.0 MHz); Duty Cycle: 1:1; Conv.F=1.54

Frequency: 5300 MHz; Medium parameters used: $f = 5250$ MHz; $\sigma = 4.74$ mho/m; $\epsilon_r = 36.03$; $\rho = 1000$ kg/m³ ;

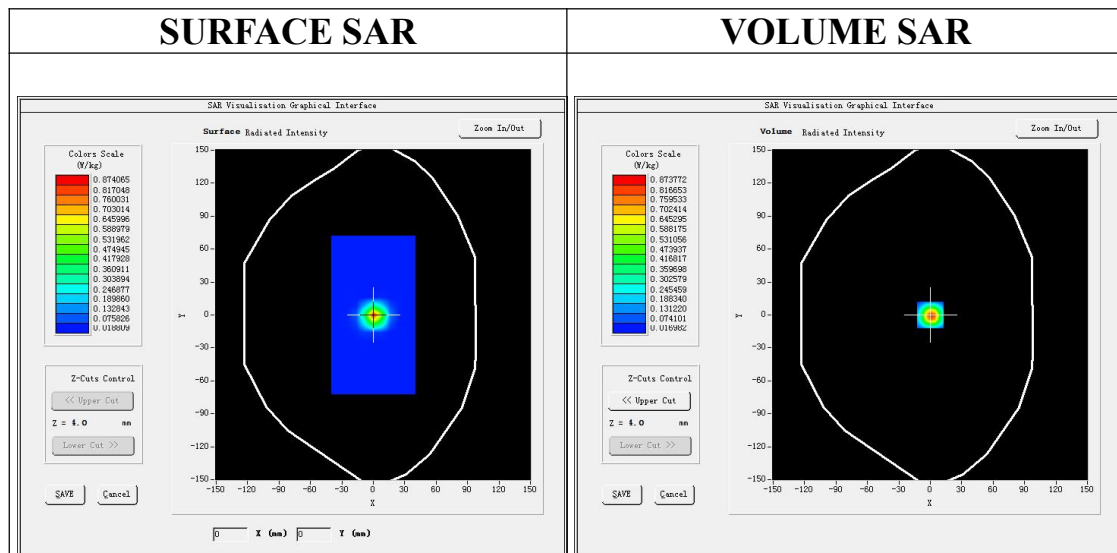
Phantom section: Flat Section; Input Power=10dBm

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 V5.3.15.8

Configuration/System Check 5300 MHz Head/Area Scan: Measurement grid: dx=8mm, dy=8mm

Configuration/System Check 5300 MHz Head/Zoom Scan: Measurement grid: dx=4mm,dy=4mm, dz=2mm



Maximum location: X=0.00, Y=0.00

SAR Peak: 2.43 W/kg

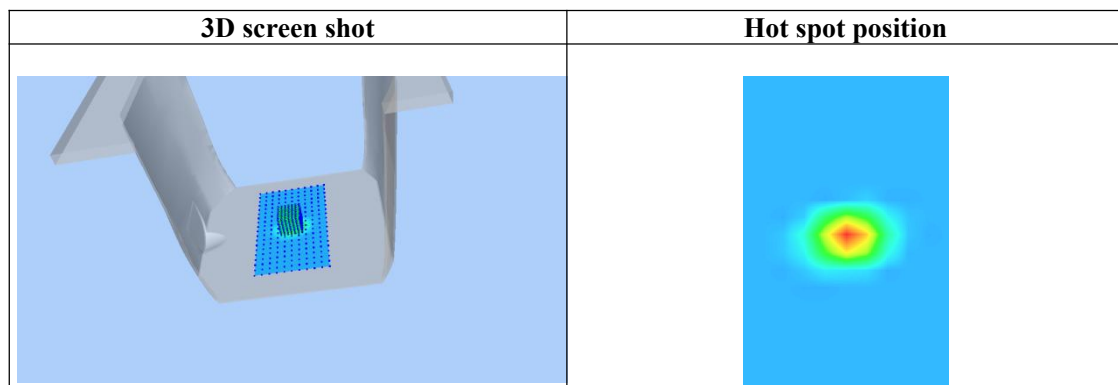
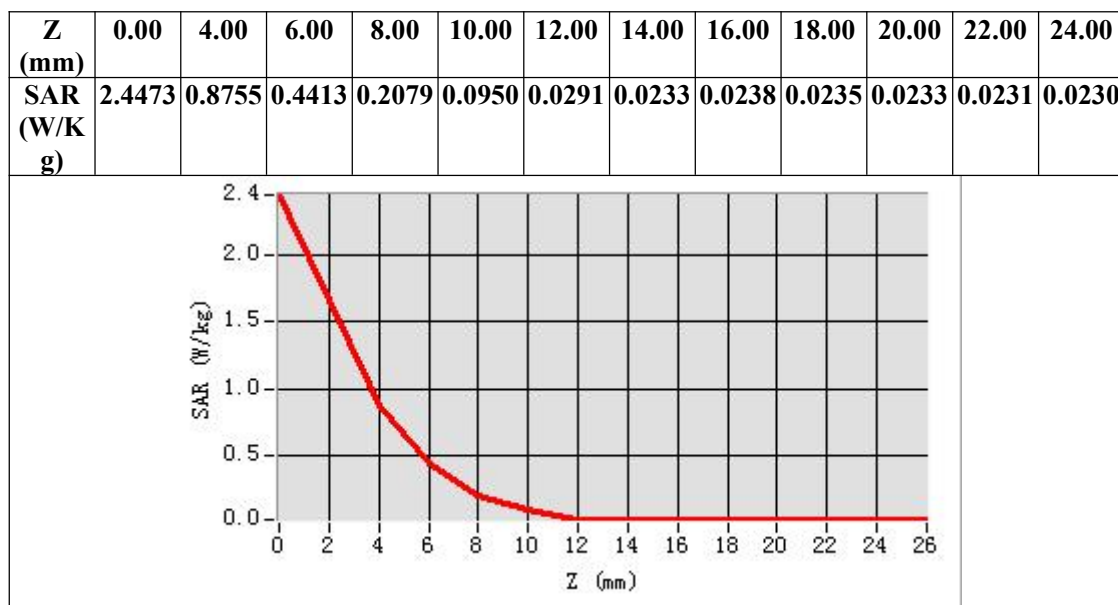
SAR 10g (W/Kg)	0.229460
SAR 1g (W/Kg)	0.806175

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Test Laboratory: AGC Lab

Date: Sep. 27, 2025

System Check Head 5600 MHz

DUT: Dipole 5000MHz Type: SID5000

Communication System: CW; Communication System Band: D5000 (5000.0 MHz); Duty Cycle: 1:1; Conv.F=1.44

Frequency: 5600 MHz; Medium parameters used: $f = 5600$ MHz; $\sigma = 5.02$ mho/m; $\epsilon_r = 35.33$; $\rho = 1000$ kg/m³ ;

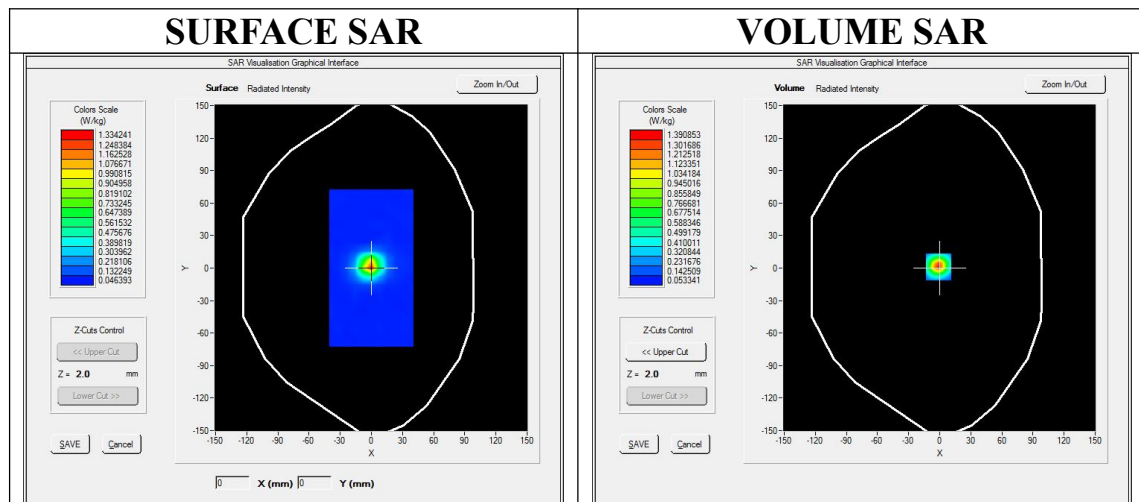
Phantom section: Flat Section; Input Power=10dBm

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 V5.3.15.8

Configuration/System Check 5600 MHz Head/Area Scan: Measurement grid: dx=8mm, dy=8mm

Configuration/System Check 5600 MHz Head/Zoom Scan: Measurement grid: dx=4mm, dy=4mm, dz=2mm



Maximum location: X=-1.00, Y=1.00

SAR Peak: 2.52 W/kg

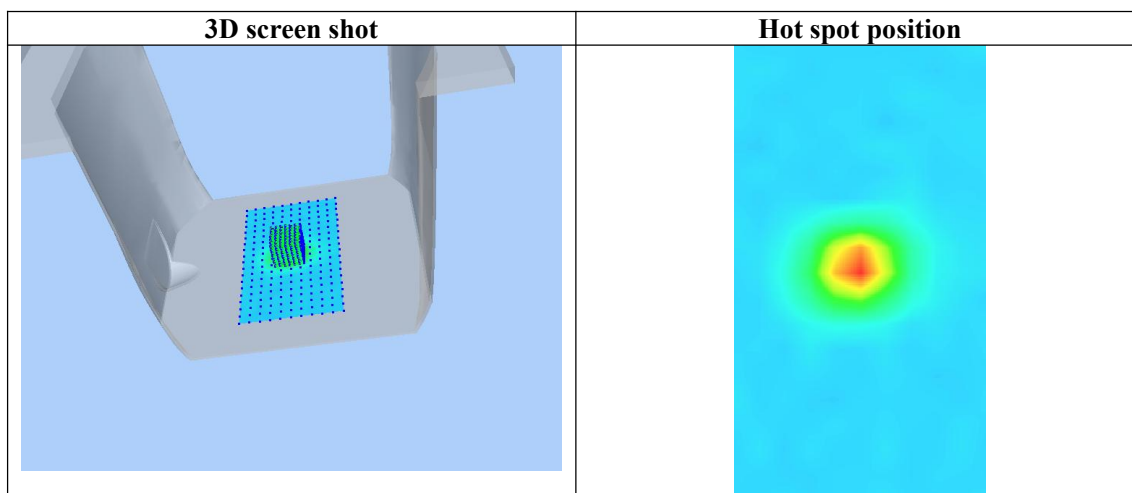
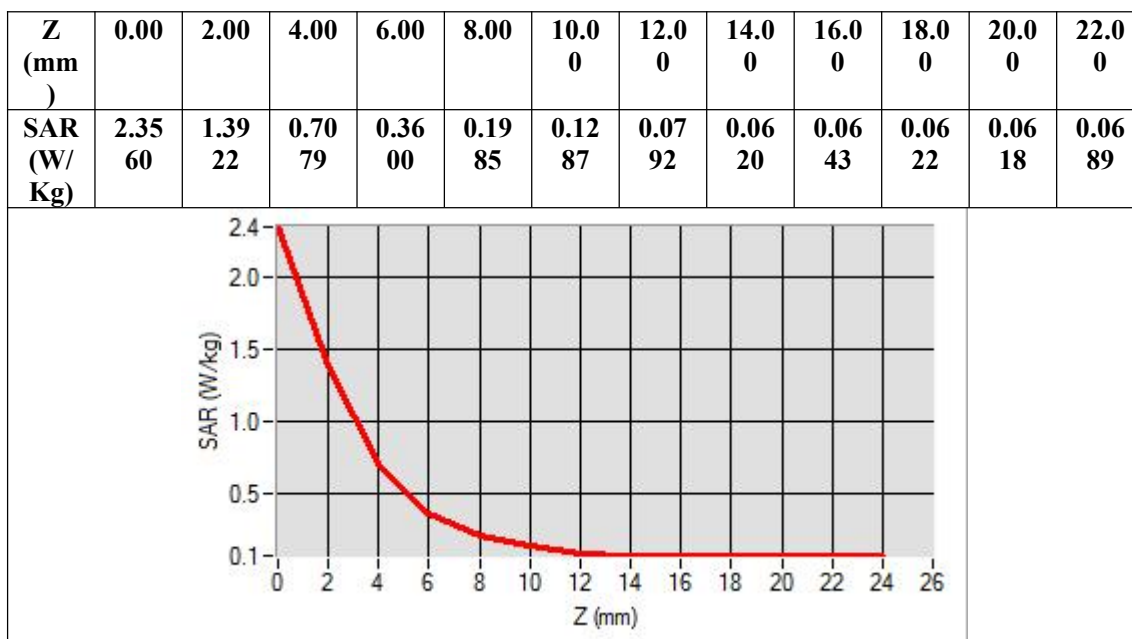
SAR 10g (W/Kg)	0.255039
SAR 1g (W/Kg)	0.745917

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Test Laboratory: AGC Lab

Date: Sep. 19, 2025

System Check Head 5800 MHz

DUT: Dipole 5000MHz Type: SID5000

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; $\sigma = 5.09$ mho/m; $\epsilon_r = 36.17$; $\rho = 1000$ kg/m³ ;

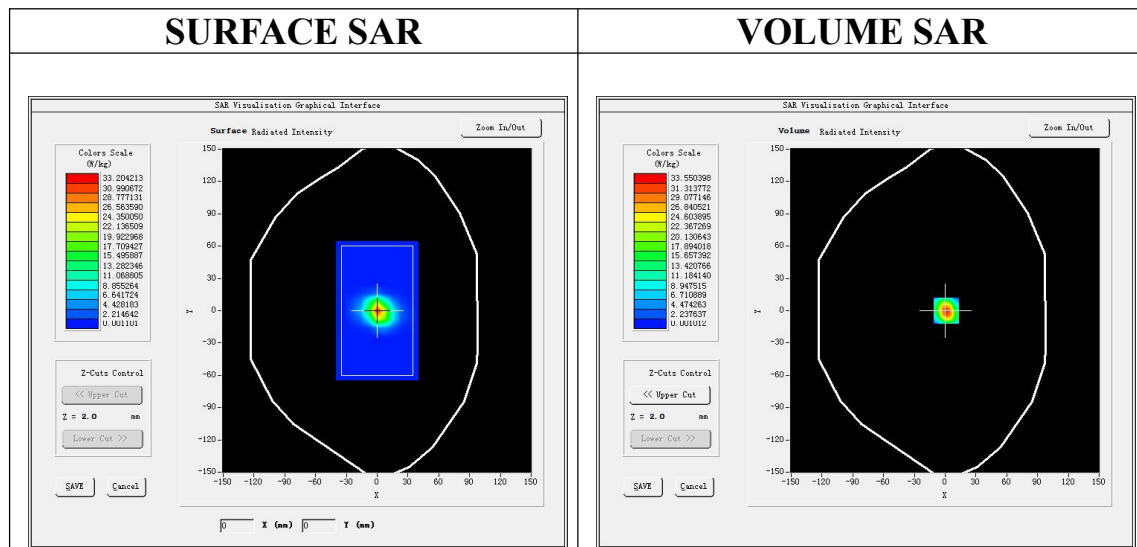
Phantom section: Flat Section; Input Power=10dBm

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 V5.3.15.8

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=1.00, Y=0.00

SAR Peak: 59.44 W/kg

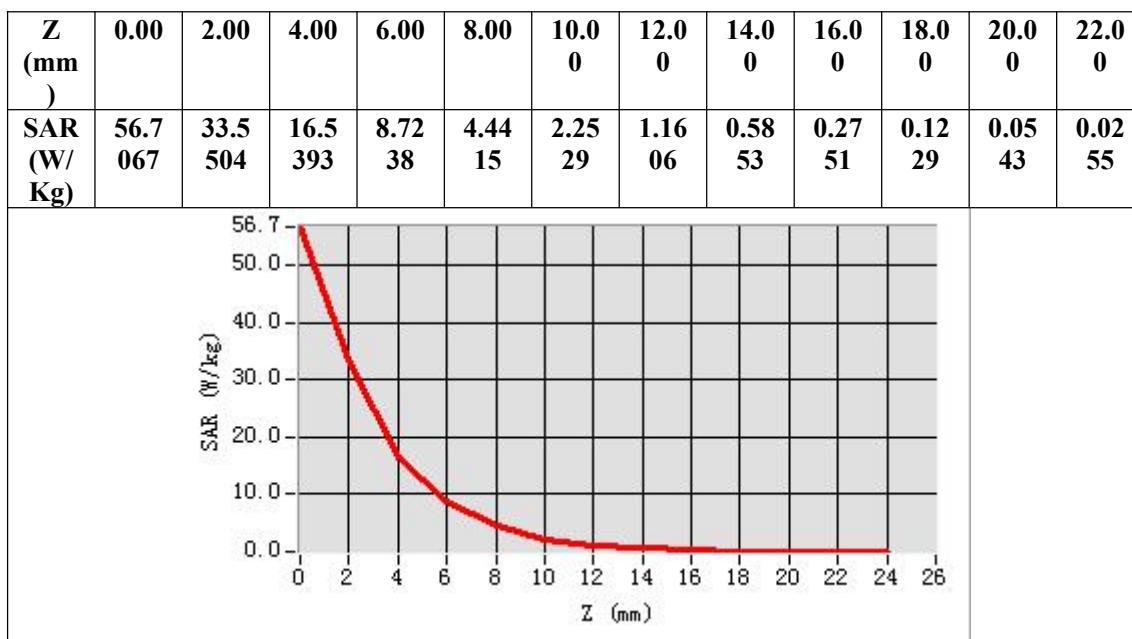
SAR 10g (W/Kg)	2.325425
SAR 1g (W/Kg)	7.532114

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APPENDIX B. SAR MEASUREMENT DATA

Test Laboratory: AGC Lab

Date: Sep. 20, 2025

GSM 850 Mid- Touch-Right <SIM 1>

DUT: Smartphone; Type: Spartan GT99

Communication System: Generic GSM; Communication System Band: GSM 850; Duty Cycle: 1:8.3; Conv.F=2.23;
Frequency: 836.6 MHz; Medium parameters used: $f = 835$ MHz; $\sigma = 0.92$ mho/m; $\epsilon_r = 40.62$; $\rho = 1000$ kg/m³ ;
Phantom section: Right Section

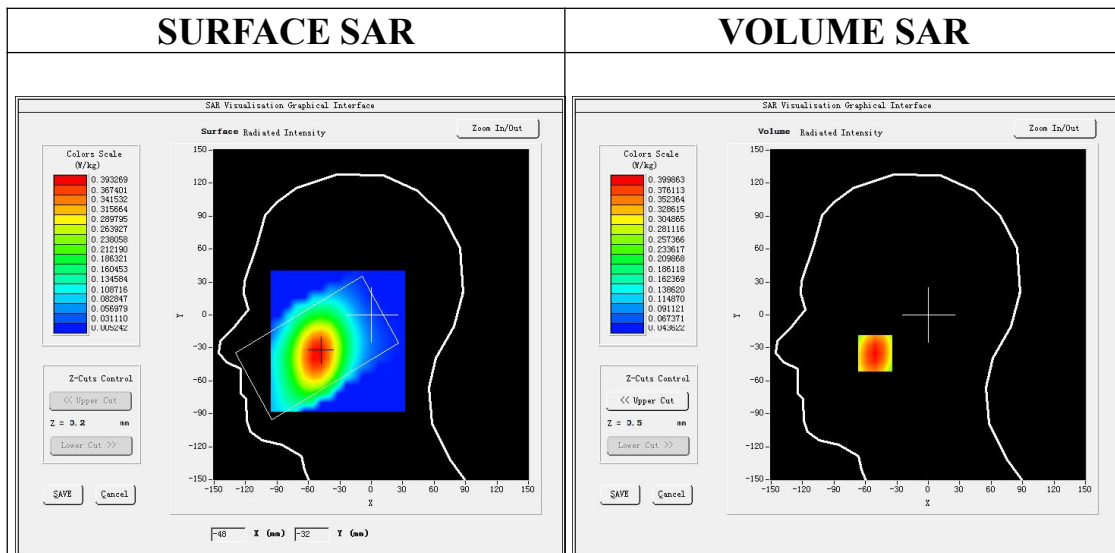
SATIMO Configuration:

- Probe: SSE2; Calibrated: 2025-05-06; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V5.3.15.8

Configuration/GSM 850 Mid-Touch-Right/Area Scan: Measurement grid: dx=8mm, dy=8mm

Configuration/GSM 850 Mid-Touch-Right/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm;

Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Right head
Device Position	Cheek
Band	GSM 850
Channels	Middle
Signal	TDMA (Crest factor: 8.0)



Maximum location: X=-51.00, Y=-35.00

SAR Peak: 0.50 W/kg

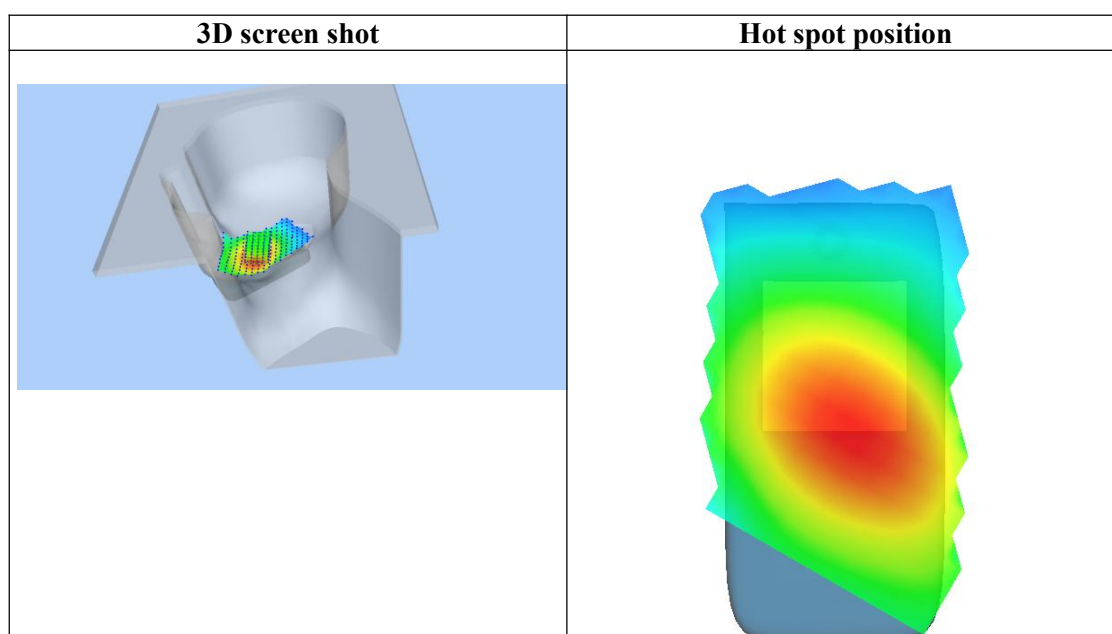
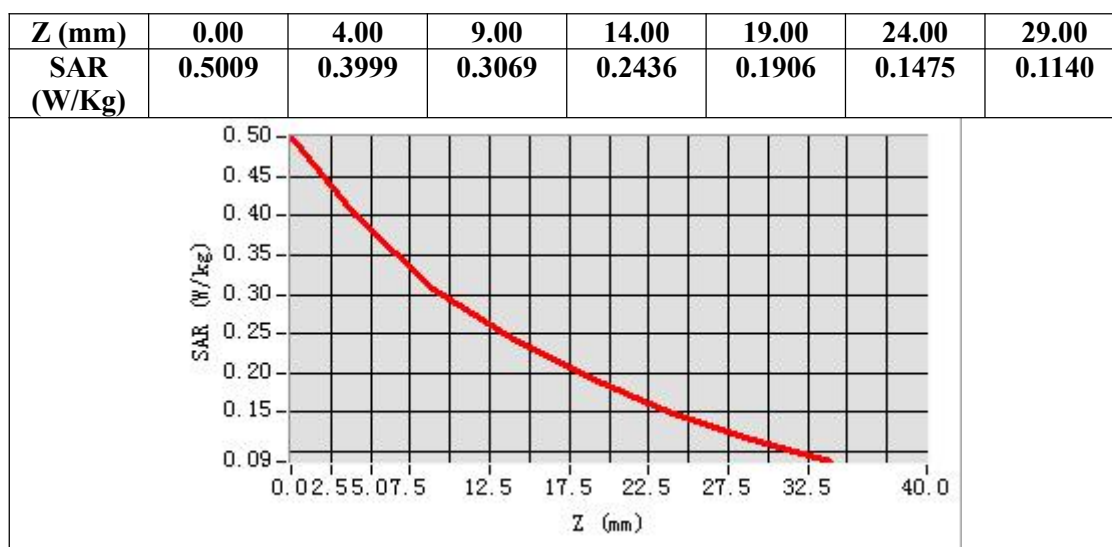
SAR 10g (W/Kg)	0.282107
SAR 1g (W/Kg)	0.387593

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Test Laboratory: AGC Lab
GSM 850 High- Body- Back (MS)<SIM 1>
DUT: Smartphone; Type: Spartan GT99

Date: Sep. 20, 2025

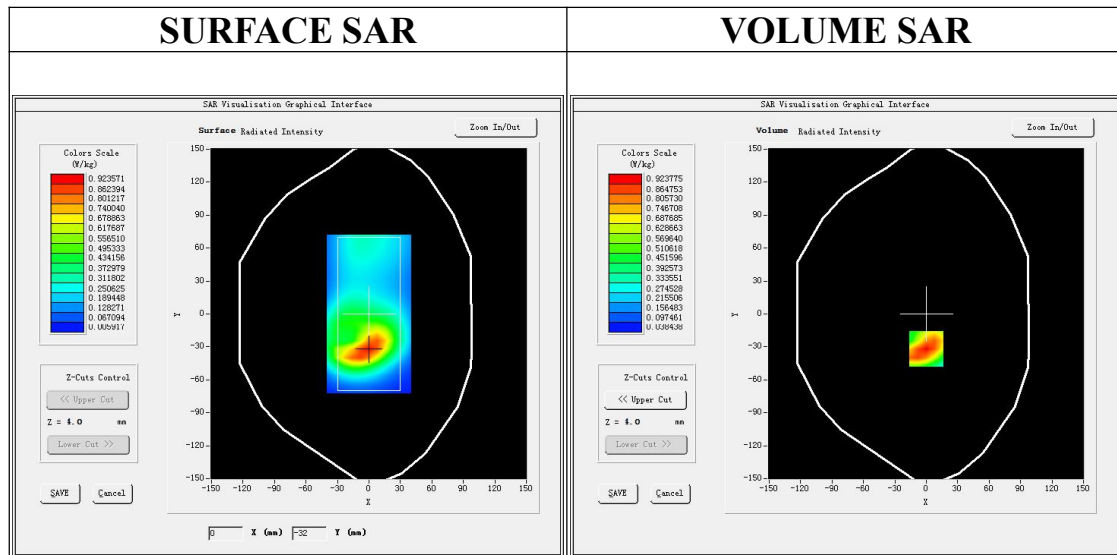
Communication System: Generic GSM; Communication System Band: GSM 850; Duty Cycle: 1:8.3; Conv.F=2.23;
Frequency: 848.8 MHz; Medium parameters used: $f = 835$ MHz; $\sigma = 0.93$ mho/m; $\epsilon_r = 39.86$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section

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 V5.3.15.8

Configuration/GSM 850 High-Body-Back/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/GSM 850 High-Body-Back/Zoom Scan: Measurement grid: dx=8mm, dy=8mm, dz=5mm;

Area Scan	surf_sam_plan.txt, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Validation plane
Device Position	Body Back
Band	GSM 850
Channels	High
Signal	TDMA (Crest factor: 8.0)



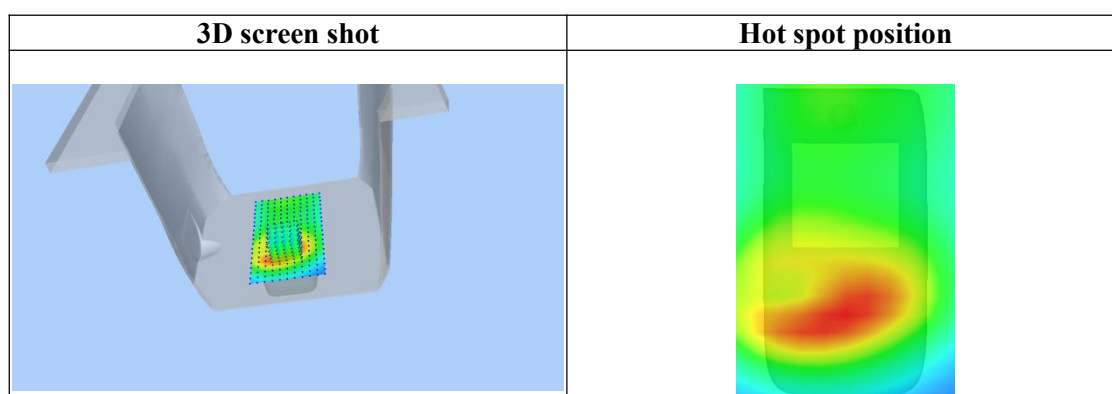
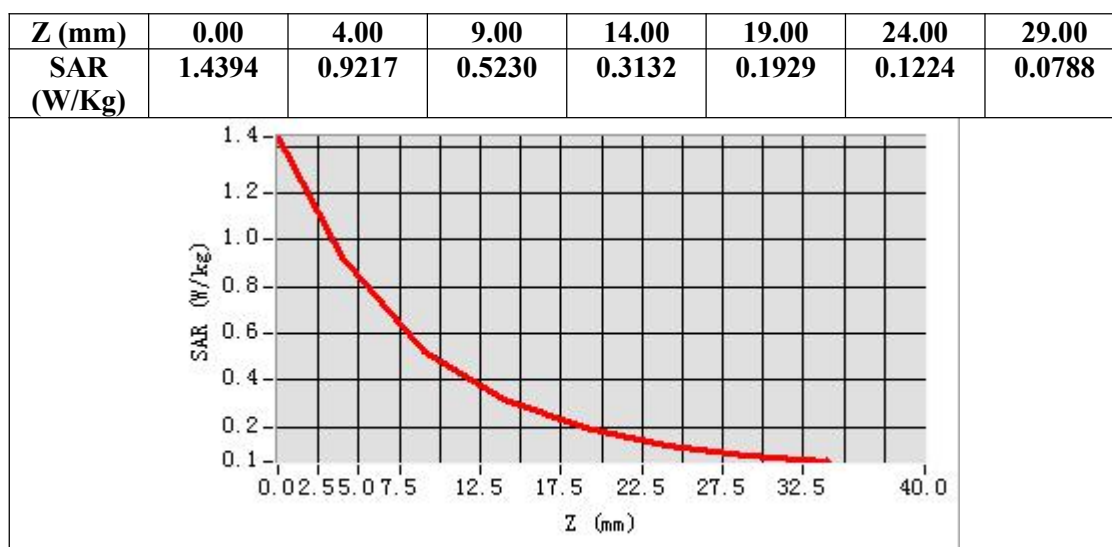
Maximum location: X=0.00, Y=-32.00

SAR Peak: 1.46 W/kg

SAR 10g (W/Kg)	0.493202
SAR 1g (W/Kg)	0.882806

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Test Laboratory: AGC Lab
GPRS 850 High- Body- Back (4up)
DUT: Smartphone; Type: Spartan GT99

Date: Sep. 20, 2025

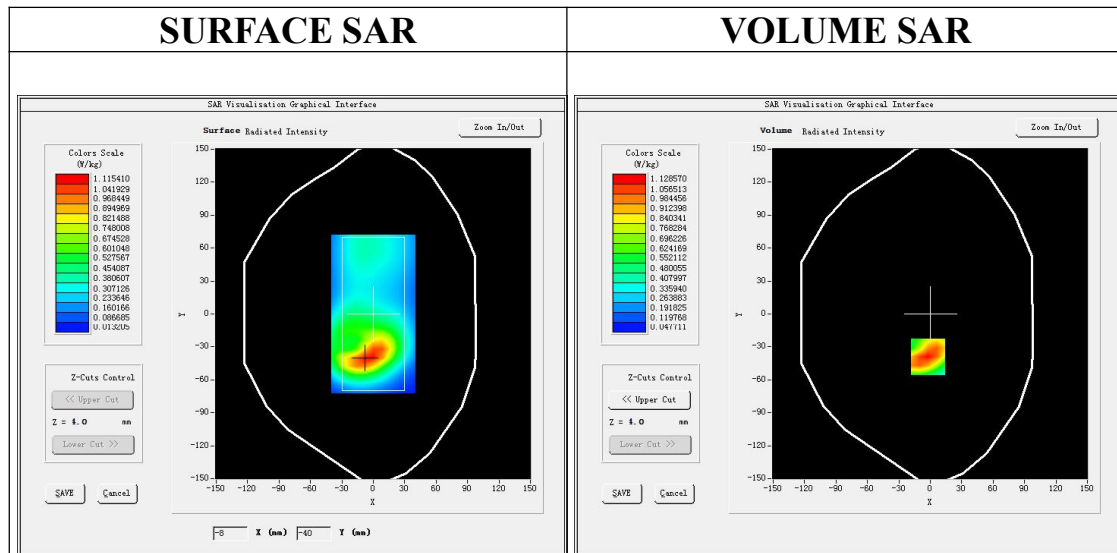
Communication System: GPRS-4 Slot; Communication System Band: GSM 850; Duty Cycle: 1:2.1; Conv.F=2.23;
Frequency: 848.8 MHz; Medium parameters used: $f = 835$ MHz; $\sigma = 0.93$ mho/m; $\epsilon_r = 39.86$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section

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 V5.3.15.8

Configuration/GPRS 850 High-Body-Back/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/GPRS 850 High-Body-Back/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
Band	GSM 850
Channels	High
Signal	TDMA (Crest factor: 2.0)



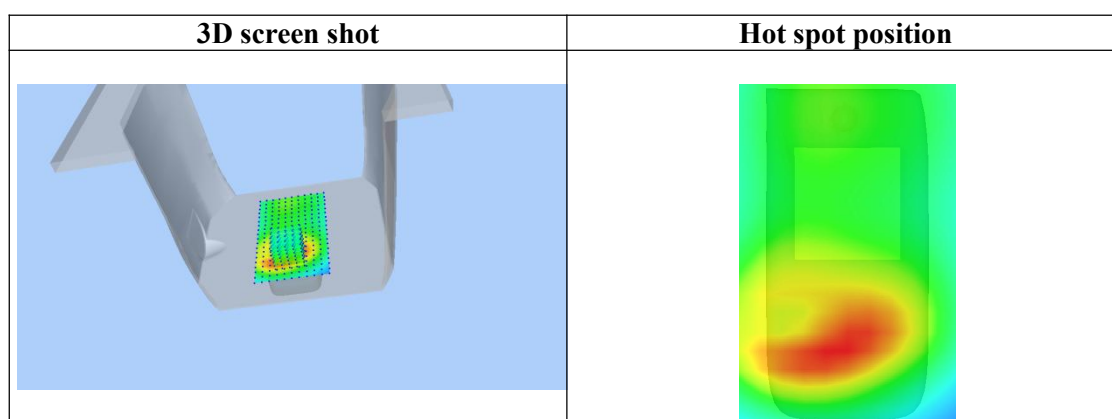
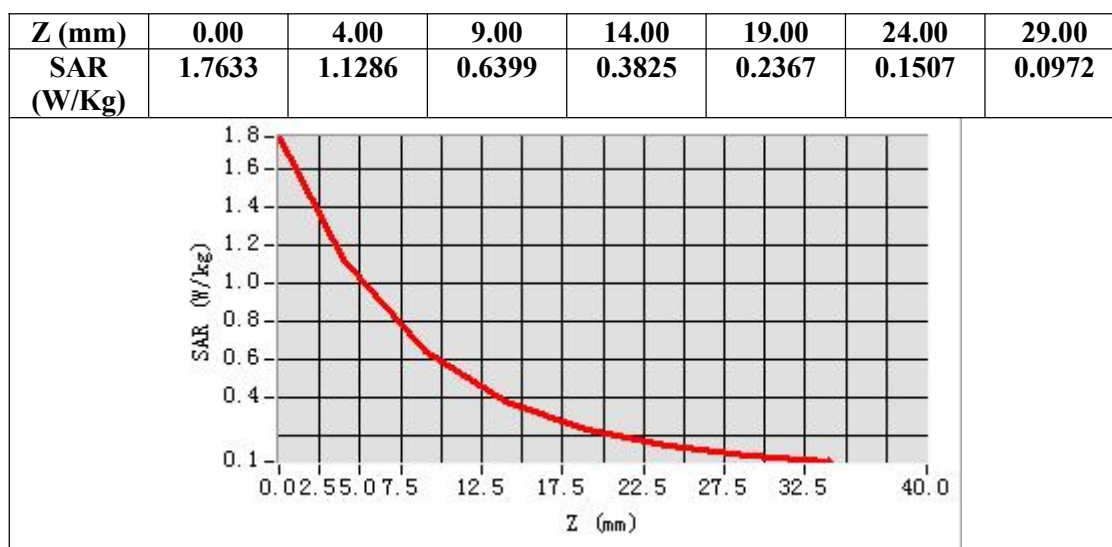
Maximum location: X=-2.00, Y=-39.00

SAR Peak: 1.77 W/kg

SAR 10g (W/Kg)	0.604235
SAR 1g (W/Kg)	1.074456

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Test Laboratory: AGC Lab
PCS 1900 Mid-Touch- Left <SIM 1>
DUT: Smartphone; Type: Spartan GT99

Date: Sep. 23, 2025

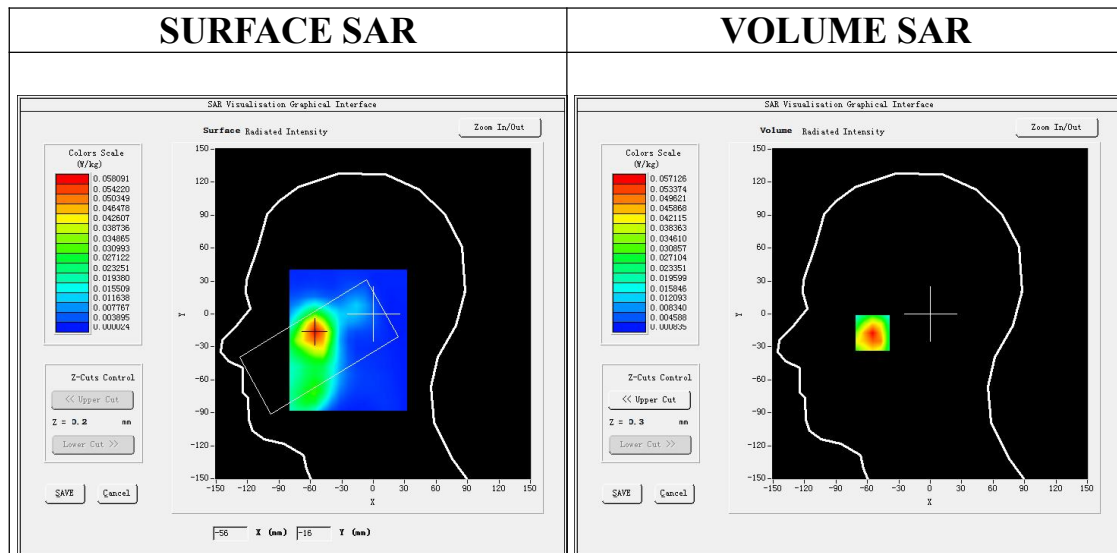
Communication System: Generic GSM; Communication System Band: PCS 1900; Duty Cycle: 1:8.3; Conv.F=2.25;
Frequency: 1880 MHz; Medium parameters used: $f = 1900$ MHz; $\sigma = 1.35$ mho/m; $\epsilon_r = 39.38$; $\rho = 1000$ kg/m³ ;
Phantom section: Left Section

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 V5.3.15.8

Configuration/PCS1900 Mid-Touch-Left/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/PCS1900 Mid-Touch-Left/Zoom Scan: Measurement grid: dx=8mm, dy=8mm, dz=5mm;

Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Left head
Device Position	Cheek
Band	PCS 1900
Channels	Middle
Signal	TDMA (Crest factor: 8.0)



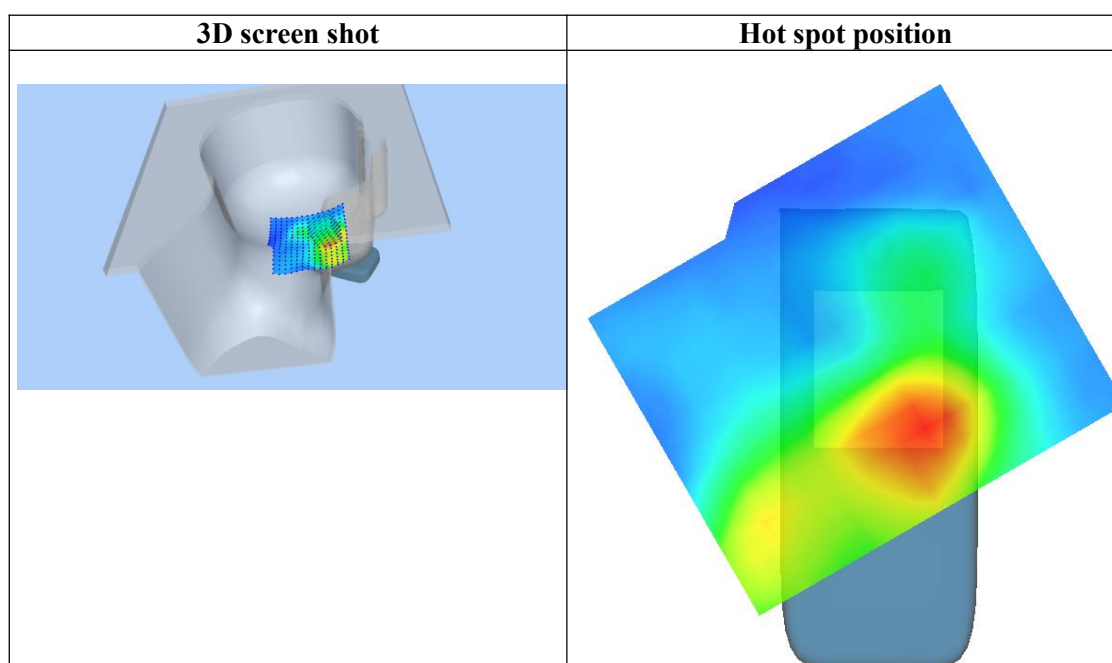
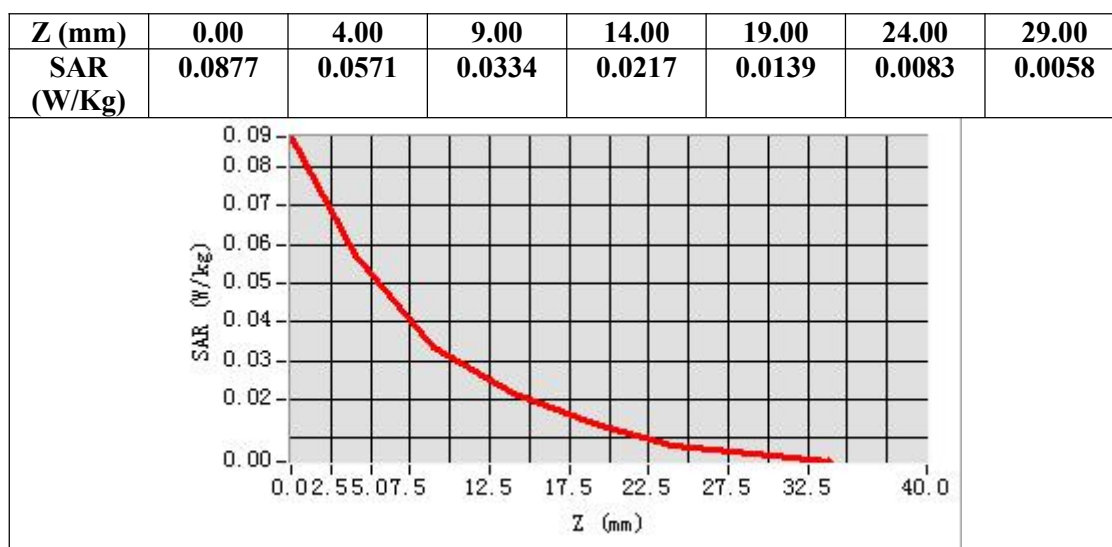
Maximum location: X=-55.00, Y=-16.00

SAR Peak: 0.09 W/kg

SAR 10g (W/Kg)	0.030681
SAR 1g (W/Kg)	0.053627

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Test Laboratory: AGC Lab
PCS 1900 Mid-Body-Back (MS)<SIM 1>
DUT: Smartphone; **Type:** Spartan GT99

Date: Sep. 23, 2025

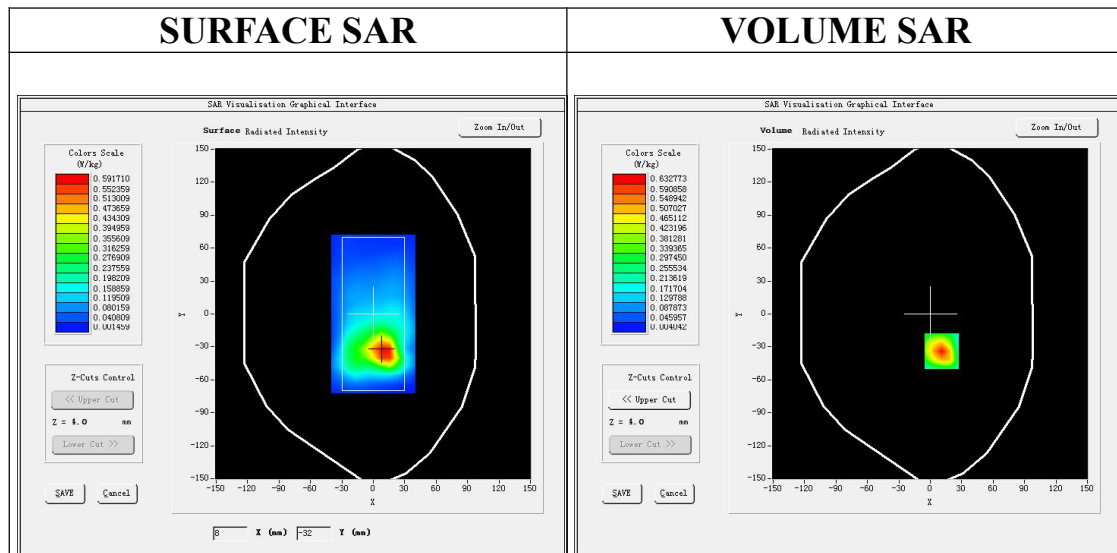
Communication System: Generic GSM; Communication System Band: PCS 1900; Duty Cycle: 1:8.3; Conv.F=2.25;
Frequency: 1880 MHz; Medium parameters used: $f = 1900$ MHz; $\sigma = 1.35$ mho/m; $\epsilon_r = 39.38$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section

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 V5.3.15.8

Configuration/PCS1900 Mid-Body-Back/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/PCS1900 Mid-Body-Back/Zoom Scan: Measurement grid: dx=8mm, dy=8mm, dz=5mm;

Area Scan	surf_sam_plan.txt, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Validation plane
Device Position	Body Back
Band	PCS 1900
Channels	Middle
Signal	TDMA (Crest factor: 8.0)



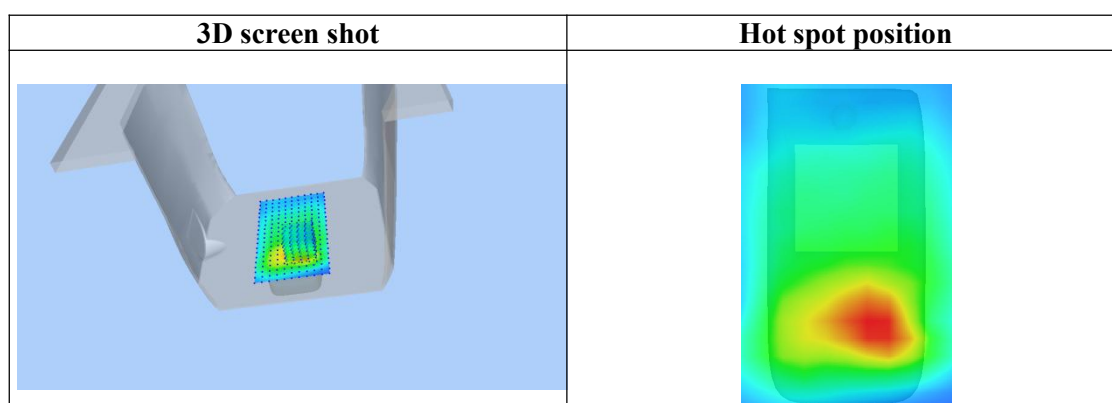
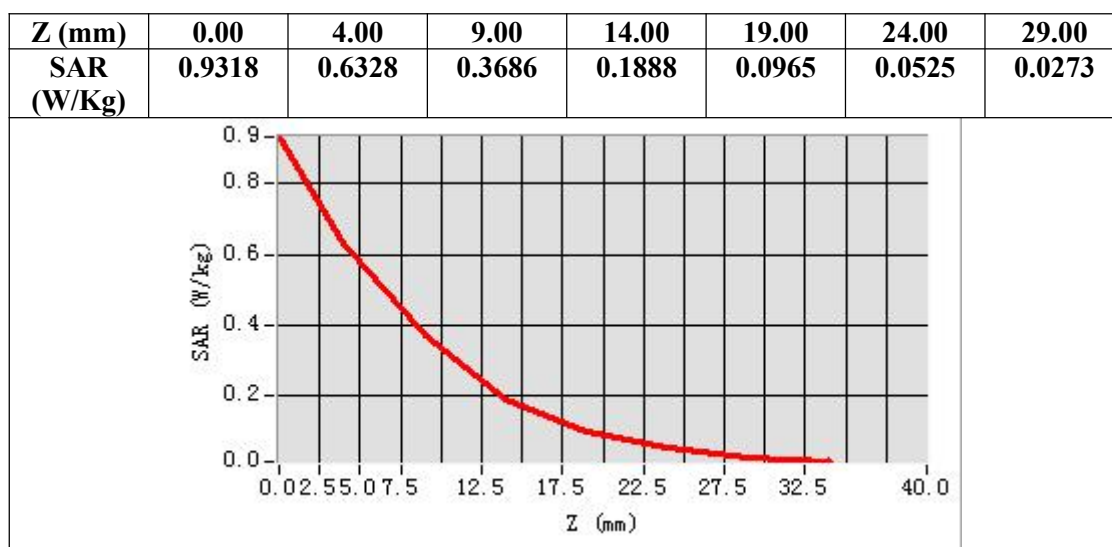
Maximum location: X=11.00, Y=-34.00

SAR Peak: 1.00 W/kg

SAR 10g (W/Kg)	0.296220
SAR 1g (W/Kg)	0.582409

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Test Laboratory: AGC Lab
GPRS 1900 Mid-Body-Back (4up)
DUT: Smartphone; **Type:** Spartan GT99

Date: Sep. 23, 2025

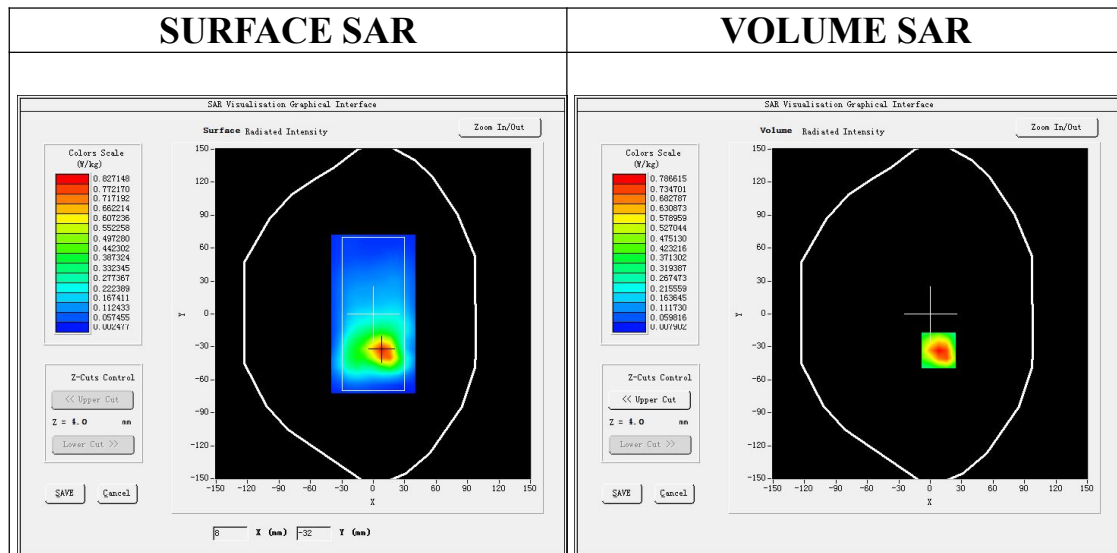
Communication System: GPRS-4Slot; Communication System Band: PCS 1900; Duty Cycle: 1:2.1; Conv.F=2.25;
Frequency: 1880 MHz; Medium parameters used: $f = 1900$ MHz; $\sigma = 1.35$ mho/m; $\epsilon_r = 39.38$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section

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 V5.3.15.8

Configuration/GPRS1900 Mid-Body-Back/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/GPRS1900 Mid-Body-Back/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
Band	PCS 1900
Channels	Middle
Signal	TDMA (Crest factor: 2.0)



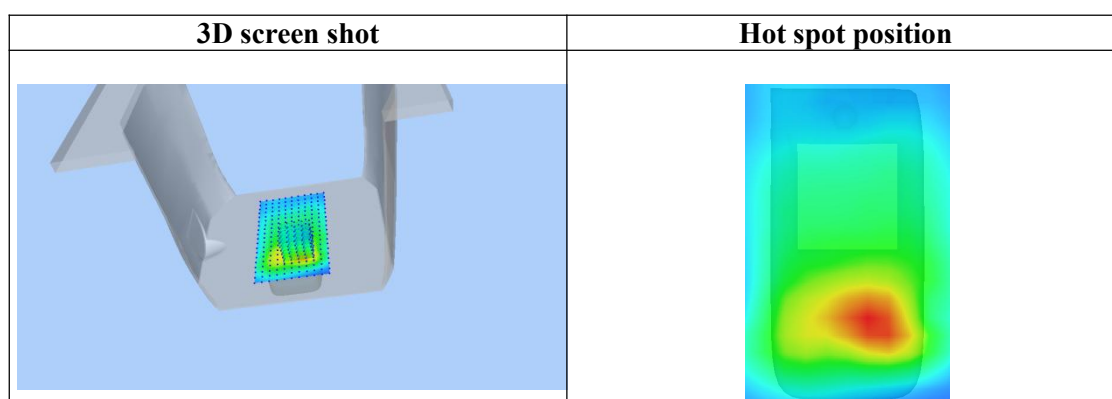
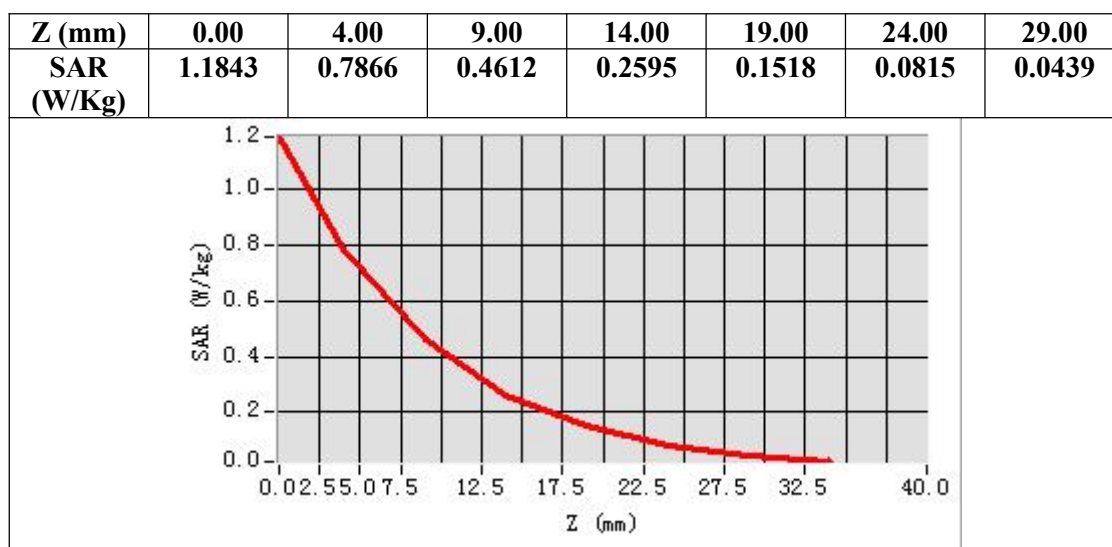
Maximum location: X=8.00, Y=-33.00

SAR Peak: 1.25 W/kg

SAR 10g (W/Kg)	0.394086
SAR 1g (W/Kg)	0.750794

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Test Laboratory: AGC Lab
WCDMA Band II Mid-Touch-Right (RMC)
DUT: Smartphone; Type: Spartan GT99

Date: Sep. 23, 2025

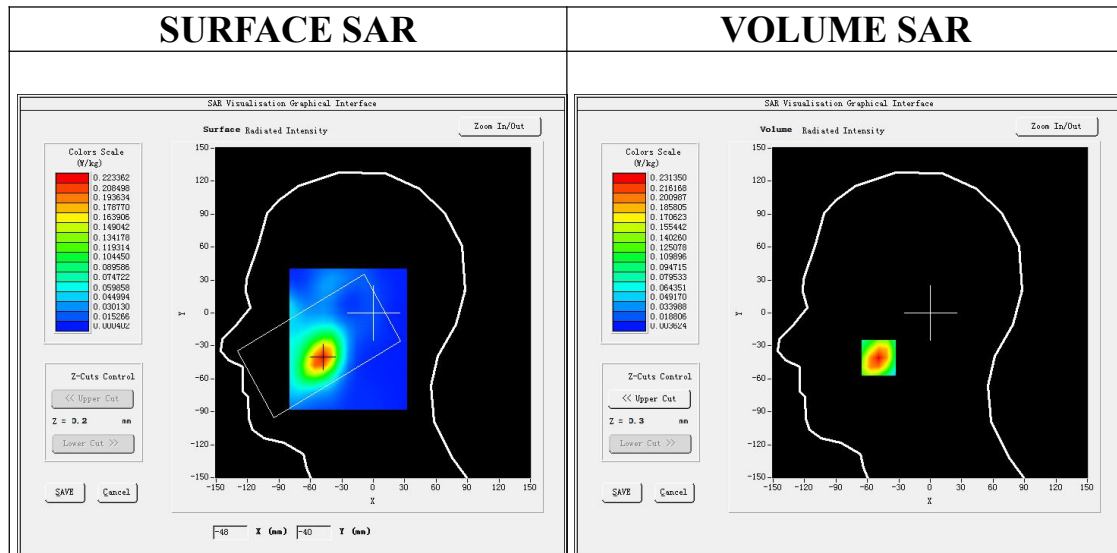
Communication System: UMTS; Communication System Band: Band II UTRA/FDD ;Duty Cycle:1:1; Conv.F=2.25;
Frequency: 1880 MHz; Medium parameters used: $f = 1900$ MHz; $\sigma = 1.35$ mho/m; $\epsilon_r = 39.38$; $\rho = 1000$ kg/m³ ;
Phantom section: Right Section

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 V5.3.15.8

Configuration/WCDMA band II Mid-Touch-Right/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/WCDMA band II Mid-Touch-Right/Zoom Scan: Measurement grid: dx=8mm, dy=8mm, dz=5mm;

Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Right head
Device Position	Cheek
Band	WCDMA band II
Channels	Middle
Signal	CDMA (Crest factor: 1.0)



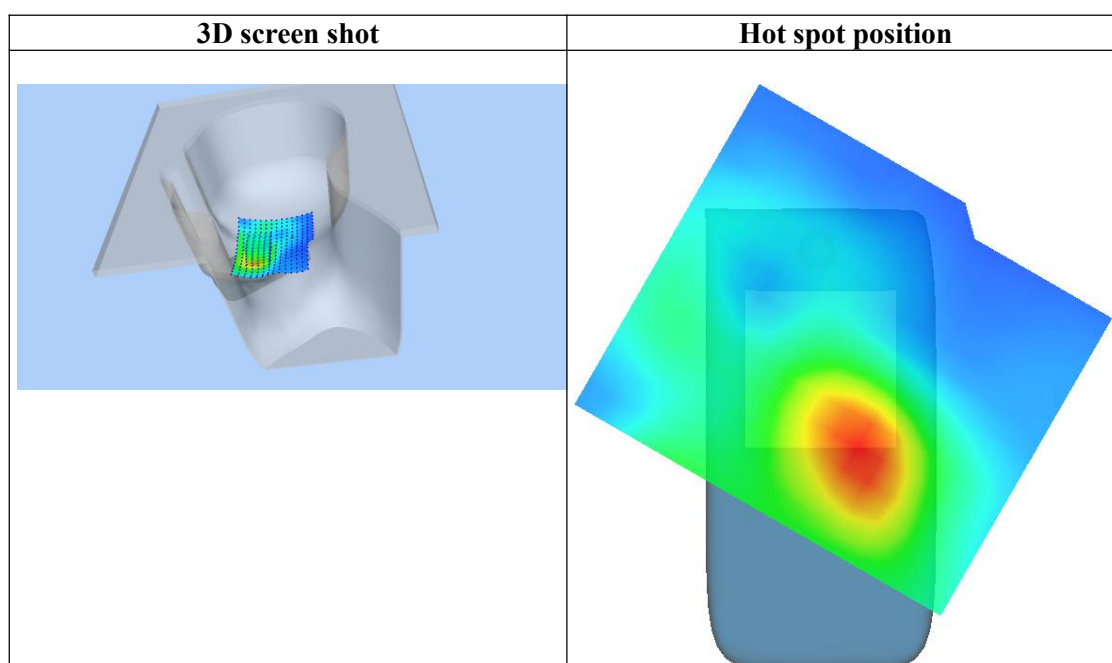
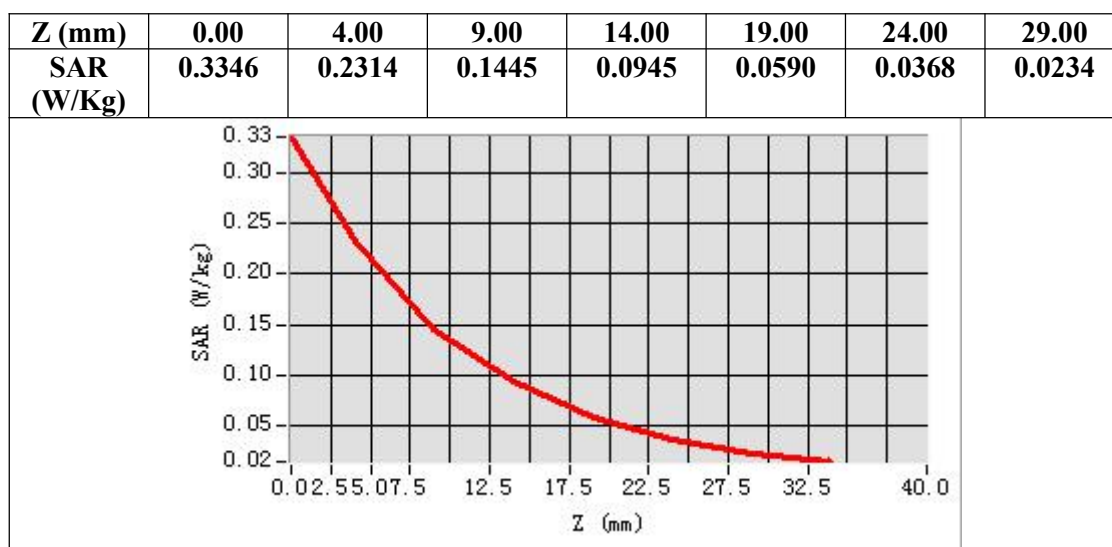
Maximum location: X=-49.00, Y=-41.00

SAR Peak: 0.34 W/kg

SAR 10g (W/Kg)	0.125412
SAR 1g (W/Kg)	0.220759

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Test Laboratory: AGC Lab
WCDMA Band II Mid-Body-Towards Grounds (RMC 12.2kbps)
DUT: Smartphone; **Type:** Spartan GT99

Date: Sep. 23, 2025

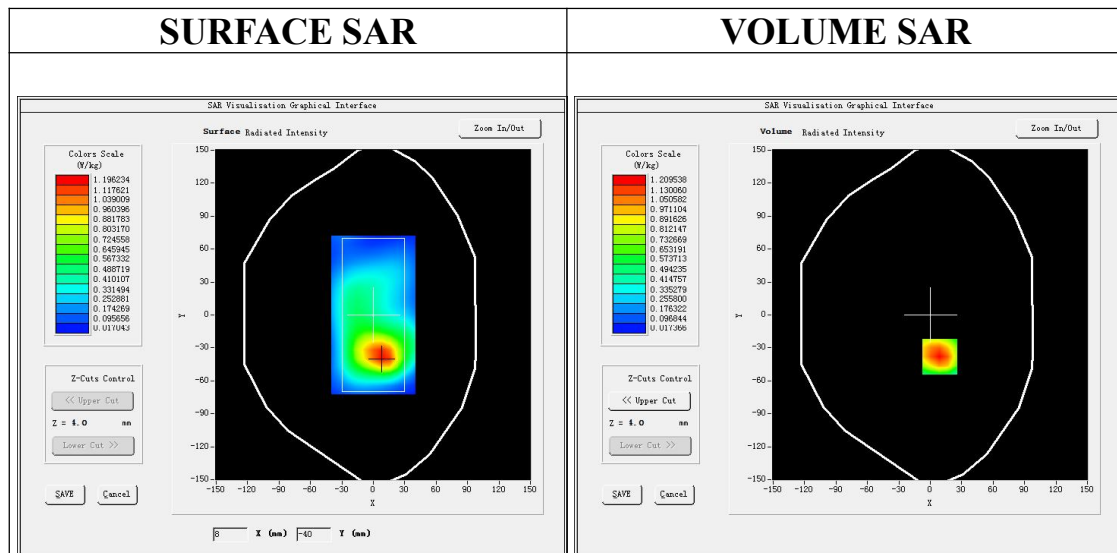
Communication System: UMTS; Communication System Band: Band II UTRA/FDD ;Duty Cycle:1:1; Conv.F=2.25;
Frequency: 1880 MHz; Medium parameters used: $f = 1900$ MHz; $\sigma = 1.35$ mho/m; $\epsilon_r = 39.38$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section

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 V5.3.15.8

Configuration/ WCDMA band II Mid-Body-Back/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/ WCDMA band II Mid-Body-Back/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm;

Area Scan	surf_sam_plan.txt, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Validation plane
Device Position	Body Back
Band	WCDMA band II
Channels	Middle
Signal	CDMA (Crest factor: 1.0)



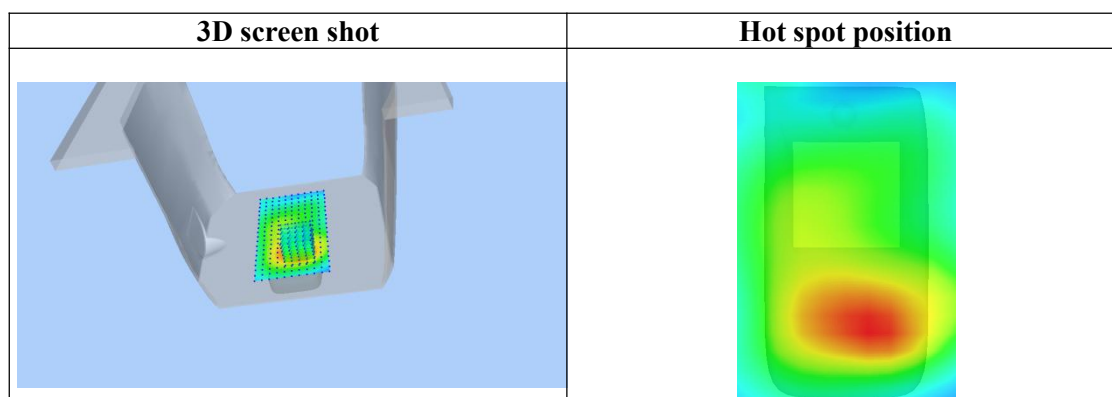
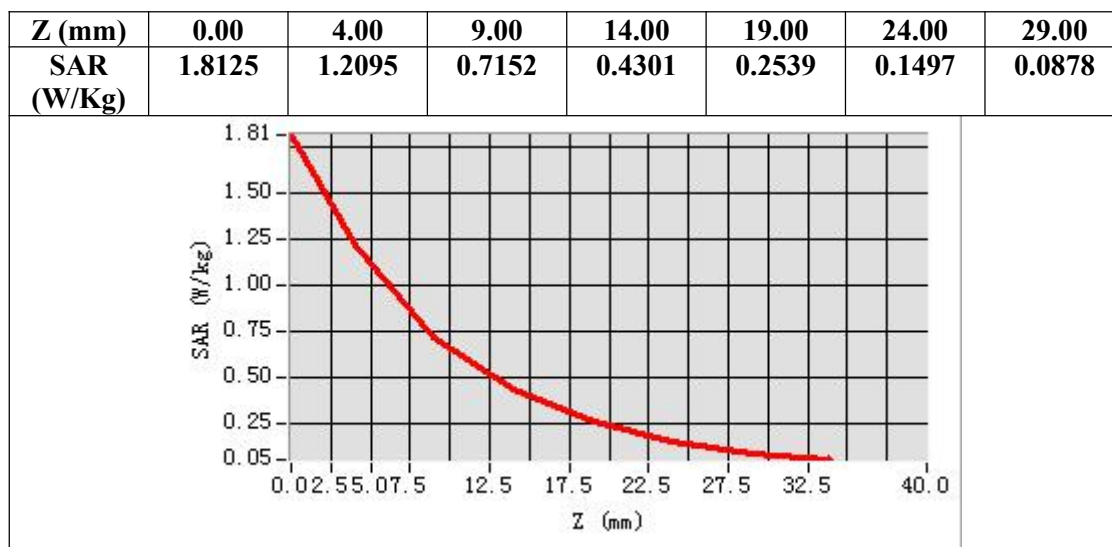
Maximum location: X=9.00, Y=-38.00

SAR Peak: 1.81 W/kg

SAR 10g (W/Kg)	0.654623
SAR 1g (W/Kg)	1.147797

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Test Laboratory: AGC Lab

Date: Sep. 20, 2025

WCDMA Band V Mid-Touch-Right (RMC)

DUT: Smartphone; Type: Spartan GT99

Communication System: UMTS; Communication System Band: BAND V UTRA/FDD ; Duty Cycle:1: 1; Conv.F=2.23;
Frequency: 836.4 MHz; Medium parameters used: $f = 835\text{MHz}$; $\sigma = 0.92\text{ mho/m}$; $\epsilon_r = 40.62$; $\rho = 1000\text{ kg/m}^3$;
Phantom section: Right Section

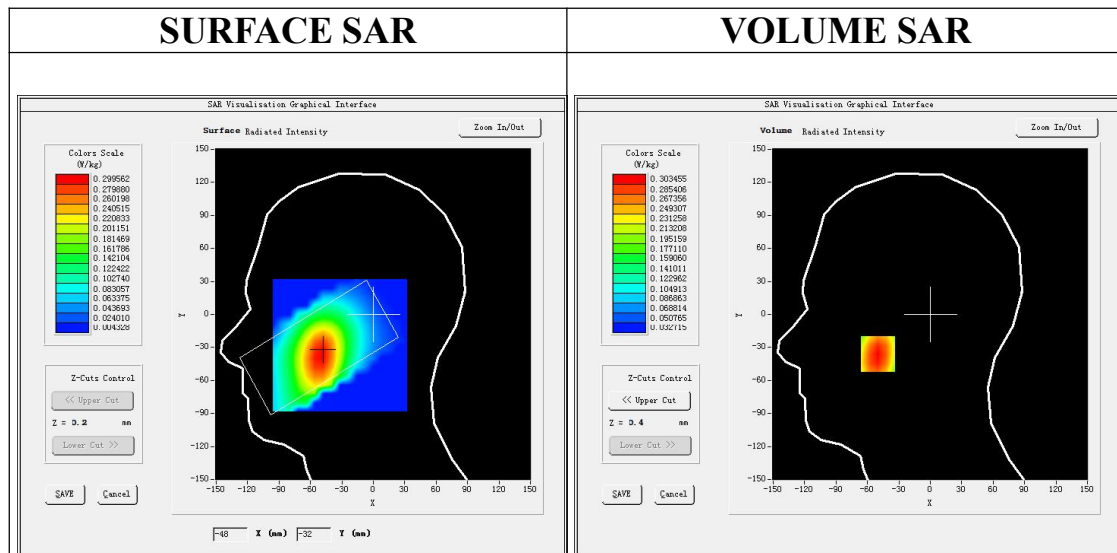
SATIMO Configuration:

- Probe: SSE2; Calibrated: 2025-05-06; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V5.3.15.8

Configuration/ WCDMA Band V Mid-Touch-Right/Area Scan: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$

Configuration/ WCDMA Band V Mid-Touch-Right/Zoom Scan: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Area Scan	$dx=8\text{mm}$ $dy=8\text{mm}$, $h= 5.00\text{ mm}$
ZoomScan	$5x5x7$, $dx=8\text{mm}$ $dy=8\text{mm}$ $dz=5\text{mm}$, Complete
Phantom	Right head
Device Position	Cheek
Band	WCDMA Band V
Channels	Middle
Signal	CDMA (Crest factor: 1.0)



Maximum location: $X=-50.00$, $Y=-36.00$

SAR Peak: 0.38 W/kg

SAR 10g (W/Kg)	0.212692
SAR 1g (W/Kg)	0.293393

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