SAR Test Report

Report No.: AGC10211220901FH01

FCC ID	:	2AU97-KR
APPLICATION PURPOSE	:	Original Equipment
PRODUCT DESIGNATION	:	Mobile Phone
BRAND NAME	:	KRONO
MODEL NAME	:	NET, KR-10, KR-15, KR-20, KR-25, KR-30, KR-35, KR-40, KR-45, KR-50, KR-32, KR-1, KR-8, KR-B31, KR-21, KR-2, KR-3, KR-4, KR-5, KR-6, KR-7, KR-MAX, KR SENIOR, KR RETRO, KR DELTA, KR PRO, KR MAX, KR ARMOUR, KR SLIM, MT01, MT02, MT03, MT07, TR-5, TR-6, TR-7, TR-8, TR-9, TR-10, TR-15, TR-20, TR-25, TR-30, TX-2, TX-3, TX-4, TX-5, TX-6
APPLICANT	:	Shenzhen Krono Digital Co., Ltd.
DATE OF ISSUE	:	Oct. 14, 2022
STANDARD(S)	:	IEEE Std. 1528:2013 FCC 47 CFR Part 2§2.1093 IEEE Std C95.1 ™-2005 IEC 62209-1: 2016
REPORT VERSION	:	V1.0

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Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Oct. 14, 2022	Valid	Initial Release

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Test Report

Applicant Name	Shenzhen Krono Digital Co., Ltd.
Applicant Address	1319, 13th Floor, SegPlaza, Huaqiangbei, Futian District, Shenzhen, Guangdong, China
Manufacturer Name	Shenzhen Krono Digital Co., Ltd.
Manufacturer Address	1319, 13th Floor, SegPlaza, Huaqiangbei, Futian District, Shenzhen, Guangdong, China
Factory Name	Shenzhen Krono Digital Co., Ltd.
Factory Address	1319, 13th Floor, SegPlaza, Huaqiangbei, Futian District, Shenzhen, Guangdong, China
Product Designation	Mobile Phone
Brand Name	KRONO
Model Name	NET
Series Model	KR-10, KR-15, KR-20, KR-25, KR-30, KR-35, KR-40, KR-45, KR-50, KR-32, KR-1, KR-8, KR-B31, KR-21, KR-2, KR-3, KR-4, KR-5, KR-6, KR-7, KR-MAX, KR SENIOR, KR RETRO, KR DELTA, KR PRO, KR MAX, KR ARMOUR, KR SLIM, MT01, MT02, MT03, MT07, TR-5, TR-6, TR-7, TR-8, TR-9, TR-10, TR-15, TR-20, TR-25, TR-30, TX-2, TX-3, TX-4, TX-5, TX-6
Different Description	All the models are the same, only different in model names.
EUT Voltage	DC3.7V by battery
Applicable Standard	IEEE Std. 1528:2013 FCC 47 CFR Part 2§2.1093 IEEE Std C95.1 ™-2005 IEC 62209-1: 2016
Date of receipt of test item	Sep. 07, 2022
Test Date	Oct. 08, 2022 to Oct. 11, 2022
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

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Thea Huang (Project Engineer) Oct. 11, 2022

Reviewed By

Calvin Liu

Calvin Liu (Reviewer) Oct. 14, 2022

Approved By

Max Zhang

Max Zhang (Authorized Officer) Oct. 14, 2022

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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 5mm separation)	
GSM 850	0.360	1.131	1.6
PCS 1900	0.438	1.378	
UMTS Band II	0.313	0.685	
UMTS Band V	0.939	1.187	
LTE Band 2	0.577	1.040	
LTE Band 4	0.390	1.507	
LTE Band 5	1.046	1.508	
LTE Band 7	0.630	1.407	
Simultaneous Reported SAR	1.541		
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 Interim 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 D05 SAR for LTE Devices v02r05

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2. GENERAL INFORMATION

2.1. EUT Description

General Information	
Product Designation	Mobile Phone
Test Model	NET
Sample ID	220907083
Hardware Version	FD16_MB_V1.0
Software Version	UMS9107_FD13_T107_KR40_V01
Device Category	Portable
RF Exposure Environment	Uncontrolled
Antenna Type	Internal
GSM and GPRS	
Support Band	☒GSM 850 ☒PCS 1900 (U.S. Bands) ☒GSM 900 ☒DCS 1800 (Non-U.S. Bands)
GPRS Type	Class B
GPRS 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;
Antenna Gain	GSM850: 0.20dBi; PCS1900: 0.51dBi
Max. Average Power	GSM850: 32.03dBm; PCS1900: 28.35dBm
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	Rel-6
Type of modulation	HSDPA:QPSK/16QAM; HSUPA:BPSK; WCDMA:QPSK
Antenna Gain	Band II: 0.51dBi; Band V: 0.20dBi
Max. Average Power	Band II: 22.33dBm; Band V: 22.42dBm
Bluetooth	
Bluetooth Version	☐V2.0 ☐V2.1 ☐V2.1+EDR ☐V3.0 ☐V3.0+HS ☒V5.0
Operation Frequency	2402~2480MHz
Type of modulation	BR ☒GFSK, EDR ☒π /4-DQPSK, ☒8DPSK
Peak Power	-1.67dBm
Antenna Gain	2.10dBi

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EUT Description(Continue)

LTE	
Support Band	☒FDD Band 2 ☒FDD Band 4 ☒FDD Band 5 ☒FDD Band 7 (U.S. Bands)
TX Frequency Range	Band 2:1850-1910MHz; Band 4:1710-1755MHz;Band 5:824-849MHz; Band 7:2500-2570MHz;
RX Frequency Range	Band 2:1930-1990MHz; Band 4:2110-2155MHz; Band 5:869-894MHz; Band 7:2620-2690MHz;
Release Version	Rel-8
Type of modulation	QPSK, 16QAM
Antenna Gain	Band 2: 0.51dBi; Band 4: 0.37dBi; Band 5: 0.20dBi; Band 7: 0.69dBi;
Max. Average Power	Band 2: 20.32dBm; Band 4: 20.38dBm; Band 5: 22.29dBm; Band 7:22.77dBm;
Accessories	
Battery	Brand name: KRONO Model No. : BL-5C Voltage and Capacitance: 3.7 V & 600mAh
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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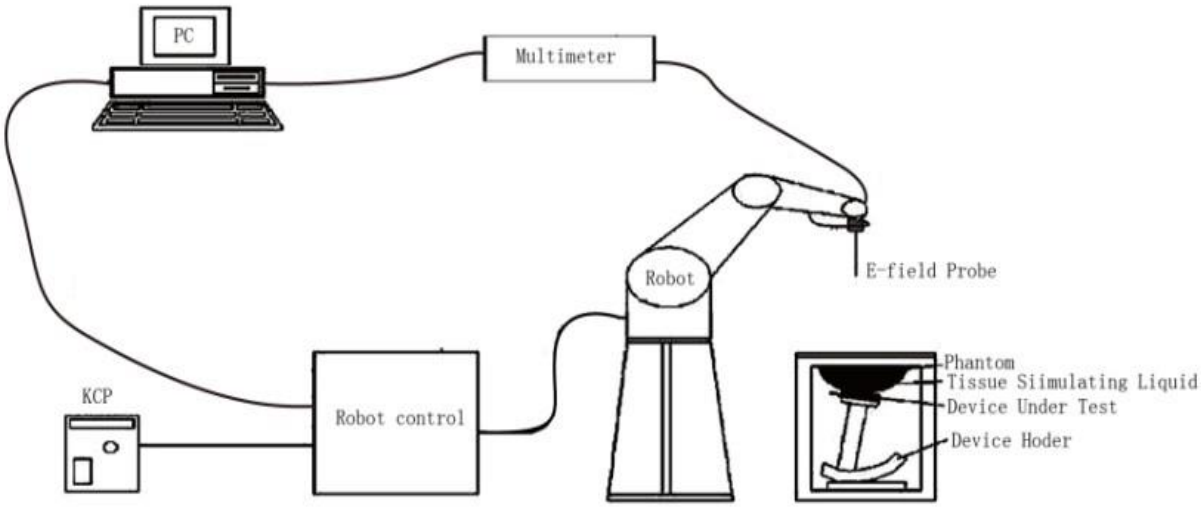
3. SAR MEASUREMENT SYSTEM

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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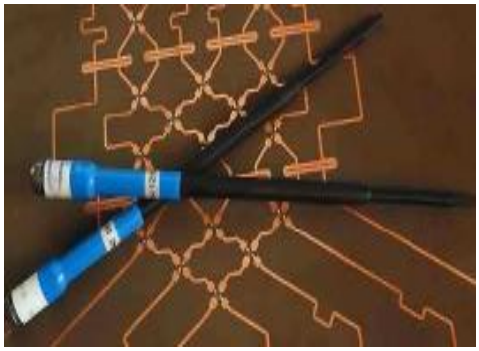
3.2. COMOSAR E-Field Probe

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.	SN 13/22 EPGO368	
Frequency	0.15GHz-6GHz Linearity:±0.09dB(0.15GHz-6GHz)	
Dynamic Range	0.01W/kg-100W/kg Linearity:±0.09dB	
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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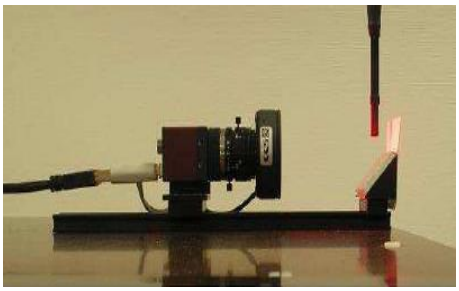
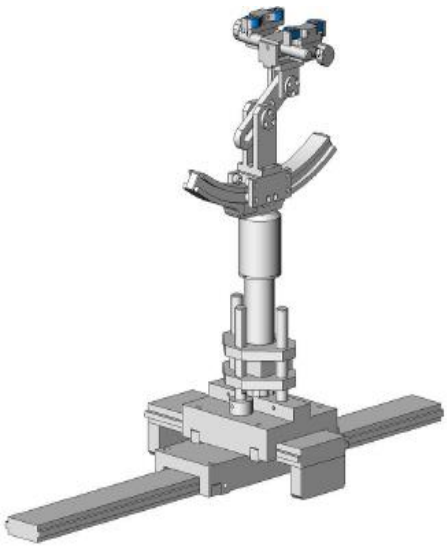
3.4. Video Positioning System

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 εr =3 and loss tangent δ = 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.	

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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.

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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:

$$\mathrm{SAR} = \frac{\mathrm{d}}{\mathrm{d}t}\left(\frac{\mathrm{d}W}{\mathrm{d}m}\right) = \frac{\mathrm{d}}{\mathrm{d}t}\left(\frac{\mathrm{d}W}{\rho \mathrm{d}V}\right)$$

SAR is expressed in units of Watts per kilogram (W/kg)
SAR can be obtained using either of the following equations:

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

$$\mathrm{SAR} = c_h \left.\frac{\mathrm{d}T}{\mathrm{d}t}\right|_{t=0}$$

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;
$\frac{\mathrm{dT}}{\mathrm{dt}} \mid \mathrm{t} = 0$	is the initial time derivative of temperature in the tissue in kelvins per second

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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 os sensor calibration points to probe tip as `defined in the probe properties,

Step 2: Area Scan

The Area Scan is used as a fast scan in two dimensions to find the area of high field values, before doing a fine measurement around the hot spot. The sophisticated interpolation routines implemented in SATIMO software can find the maximum locations even in relatively coarse grids. When an Area Scan has measured all reachable points, it computes the field maximal found in the scanned area, within a range of the global maximum. The range (in db) is specified in the standards for compliance testing. For example, a 2db range is required in IEEE Standard 1528 and IEC62209 standards, whereby 3db is a requirement when compliance is assessed in accordance with the ARIB standard (Japan) If one Zoom Scan follows the Area Scan, then only the absolute maximum will be taken as reference. For cases where multiple maximum are detected, the number of Zoom Scan has to be increased accordingly.

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

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

Step 3: Zoom Scan

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

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

Maximum zoom scan spatial resolution: Δx_{Zoom}, Δy_{Zoom}			≤ 2 GHz: ≤ 8 mm 2 – 3 GHz: ≤ 5 mm*	3 – 4 GHz: ≤ 5 mm* 4 – 6 GHz: ≤ 4 mm*
Maximum zoom scan spatial resolution, normal to phantom surface	uniform grid: $\Delta z_{Zoom}(n)$		≤ 5 mm	3 – 4 GHz: ≤ 4 mm 4 – 5 GHz: ≤ 3 mm 5 – 6 GHz: ≤ 2 mm
	graded grid	$\Delta z_{Zoom}(1)$: between 1st two points closest to phantom surface	≤ 4 mm	3 – 4 GHz: ≤ 3 mm 4 – 5 GHz: ≤ 2.5 mm 5 – 6 GHz: ≤ 2 mm
		$\Delta z_{Zoom}(n>1)$: between subsequent points	$\leq 1.5 \cdot \Delta z_{Zoom}(n-1)$	
Minimum zoom scan volume	x, y, z		≥ 30 mm	3 – 4 GHz: ≥ 28 mm 4 – 5 GHz: ≥ 25 mm 5 – 6 GHz: ≥ 22 mm

Note: δ is the penetration depth of a plane-wave at normal incidence to the tissue medium; see draft standard IEEE P1528-2011 for details.

* When zoom scan is required and the *reported* SAR from the *area scan based 1-g SAR estimation* procedures of KDB 447498 is ≤ 1.4 W/kg, ≤ 8 mm, ≤ 7 mm and ≤ 5 mm zoom scan resolution may be applied, respectively, for 2 GHz to 3 GHz, 3 GHz to 4 GHz and 4 GHz to 6 GHz.

Step 4: Power Drift Measurement

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

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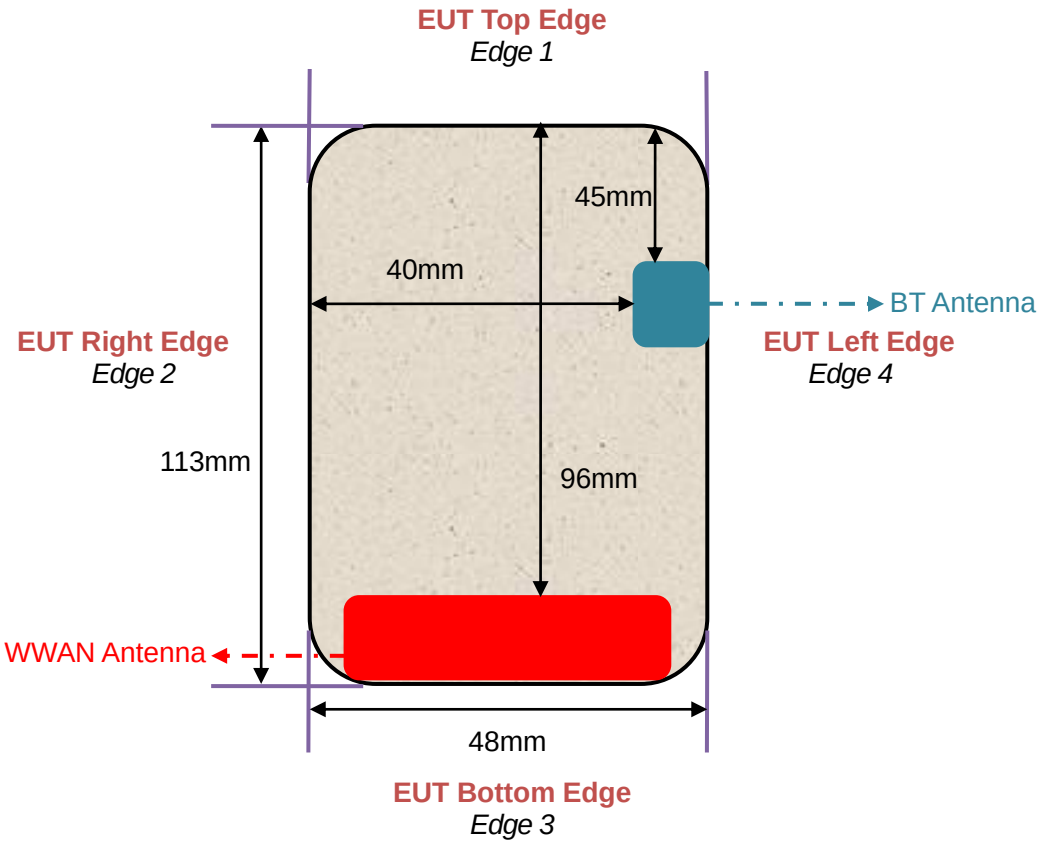
4.3. RF Exposure Conditions

Test Configuration and setting:

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

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.

Antenna Location: (the back view)



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5. TISSUE SIMULATING LIQUID

For SAR measurement of the field distribution inside the phantom, the phantom must be filled with homogeneous tissue simulating liquid to a depth of at least 15cm. For head SAR testing the liquid height from the ear reference point (ERP) of the phantom to the liquid top surface is larger than 15cm For body SAR testing, the liquid height from the center of the flat phantom to the liquid top surface is larger than 15cm.The nominal dielectric values of the tissue simulating liquids in the phantom and the tolerance of 10% are listed in 6.2

5.1. The composition of the tissue simulating liquid

Ingredient (% Weight) / Frequency (MHz)	Water	Nacl	Polysorbate 20	DGBE	1,2 Propanediol	Triton X-100
835 Head	50.36	1.25	48.39	0.0	0.0	0.0
1750 Head	52.64	0.36	0.0	47	0.0	0.0
1900 Head	54.9	0.18	0.0	44.92	0.0	0.0
2600 Head	55.242	0.306	0	44.452	0	0

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5.2. Tissue Dielectric Parameters for Head and Body Phantoms

The head tissue dielectric parameters recommended by the IEC 62209-1 have been incorporated in the following table. The body tissue dielectric parameters recommended by the IEC 62209-2 have been incorporated in the following table.

Target Frequency (MHz)	head		body	
	εr	σ (S/m)	εr	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

(εr = 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					
	Fr. (MHz)	Dielectric Parameters (±10%)		Tissue Temp [°C]	Test time
		εr 41.5 (37.35-45.65)	δ[s/m] 0.90(0.81-0.99)		
Head	824.2	42.35	0.91	20.6	Oct. 08, 2022
	826.4	42.35	0.91		
	829	42.08	0.92		
	835	41.84	0.93		
	836.4	41.65	0.94		
	836.5	41.65	0.94		
	836.6	41.65	0.94		
	844	41.49	0.95		
	846.6	41.49	0.95		
	848.8	41.49	0.95		

Tissue Stimulant Measurement for 1750MHz					
	Fr. (MHz)	Dielectric Parameters (±10%)		Tissue Temp [°C]	Test time
		εr 40.1 (36.09-44.11)	δ[s/m]1.37(1.233-1.507)		
Head	1715	39.96	1.38	21.5	Oct. 11, 2022
	1732.5	39.89	1.39		
	1745	39.74	1.40		
	1750	39.58	1.41		

Tissue Stimulant Measurement for 1900MHz					
	Fr. (MHz)	Dielectric Parameters (±10%)		Tissue Temp [°C]	Test time
		εr40.00(36.00-44.00)	δ[s/m]1.40(1.26-1.54)		
Head	1850.2	39.95	1.34	22.3	Oct. 10, 2022
	1852.4	39.95	1.34		
	1855	39.72	1.35		
	1880	39.67	1.36		
	1900	39.41	1.37		
	1905	39.41	1.37		
	1907.6	39.23	1.38		
	1909.8	39.23	1.38		

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Tissue Stimulant Measurement for 2600MHz					
	Fr. (MHz)	Dielectric Parameters (±10%)		Tissue Temp [°C]	Test time
		εr39(35.1-42.9)	δ[s/m]1.96(1.764-2.156)		
Head	2505	40.35	1.96	21.9	Oct. 09, 2022
	2535	40.13	1.97		
	2565	39.95	1.98		
	2600	39.76	1.99		

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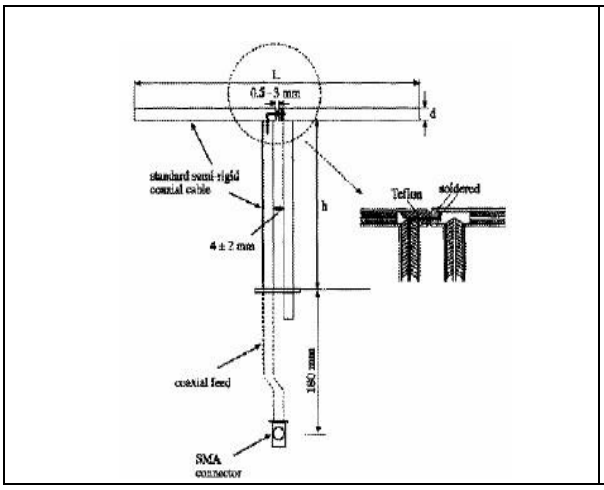
6. SAR SYSTEM CHECK PROCEDURE

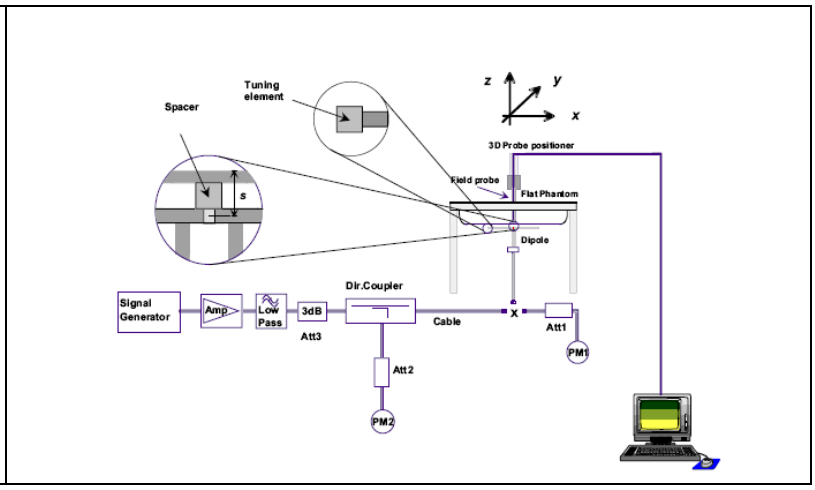
6.1. SAR System Check Procedures

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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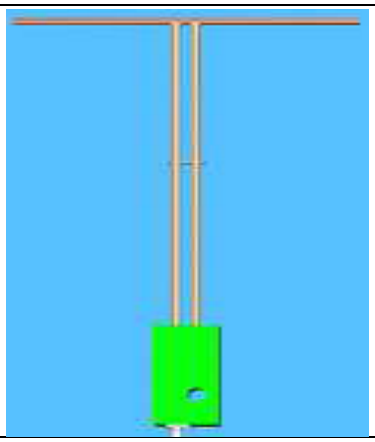
6.2. SAR System Check

6.2.1. Dipoles



The dipoles used 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 dipoles.

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
2600MHz	48.5	28.8	3.6

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6.2.2. System Check Result

System Performance Check at 835MHz &1800MHz &1900MHz &2600MHz for Head								
Validation Kit: SN 15/16 DIP 0G835-399& SN 46/11 DIP 1G800-186& SN 29/15 DIP 1G900-389& SN 22/16 DIP 2G600-407								
Frequency [MHz]	Target Value(W/kg)		Reference Result (± 10%)		Tested Value(W/kg)		Tissue Temp. [°C]	Test time
	1g	10g	1g	10g	1g	10g		
835	9.67	6.14	8.703-10.637	5.526-6.754	9.65	6.24	20.6	Oct. 08, 2022
1800	37.76	19.60	33.984-41.536	17.640-21.560	40.95	20.95	21.5	Oct. 11, 2022
1900	41.26	20.86	37.134-45.386	18.774-22.946	38.40	19.37	22.3	Oct. 10, 2022
2600	54.94	23.77	49.446-60.434	21.393-26.147	54.94	24.05	21.9	Oct. 09, 2022

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

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7. EUT TEST POSITION

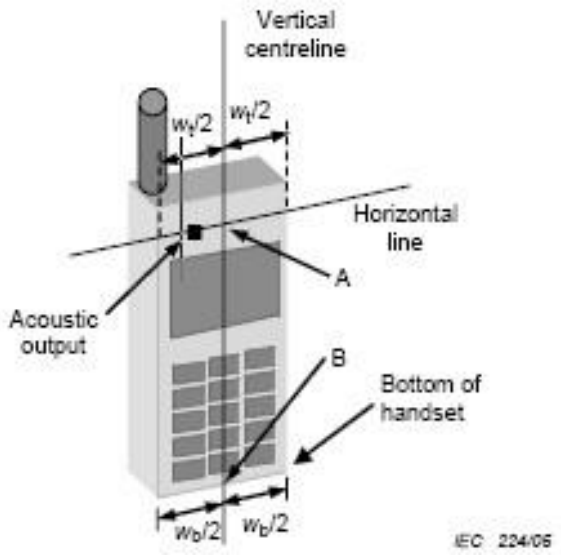
This EUT was tested in **Right Cheek, Right Tilted, Left Cheek, Left Tilted, Body back, Body front and 4 edges.**

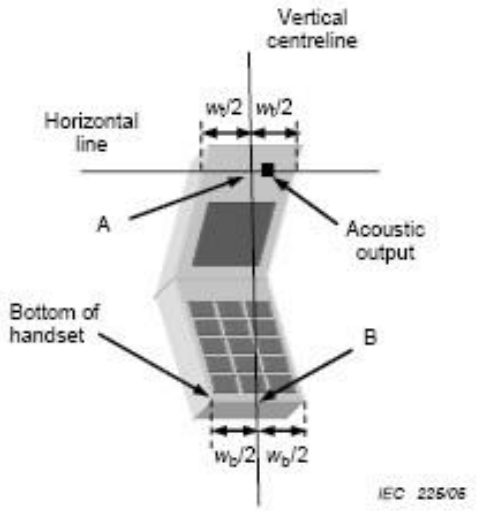
7.1. Define Two Imaginary Lines on the Handset

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

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

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





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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 picec 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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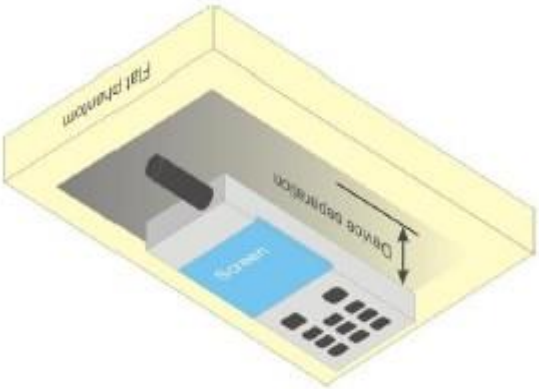
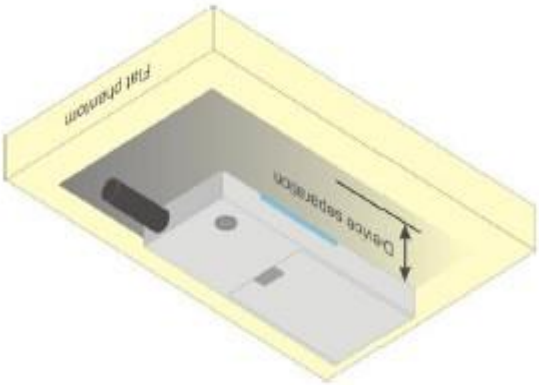
7.4. Body Worn Position

(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 **5mm.**





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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

Equipment description	Manufacturer/ Model	Identification No.	Software version	Current calibration date	Next calibration date
SAR Probe	MVG	SN 13/22 EPGO368	N/A	Apr. 13, 2022	Apr. 12, 2023
Phantom	SATIMO	SN_4511_SAM90	N/A	Validated. No cal required.	Validated. No cal required.
Liquid	SATIMO	N/A	N/A	Validated. No cal required.	Validated. No cal required.
Comm Tester	Agilent-8960	GB46310822	A.13.07	Aug. 03,2022	Aug. 02,2023
Comm Tester	R&S- CMW500	121209	V3.7.40	Aug. 04,2022	Aug. 03,2023
Multimeter	Keithley 2000	4114939	N/A	Aug. 03,2022	Aug. 02,2023
SAR Software	MVG-OpenSAR	N/A	OpenSAR V4_02_35	N/A	N/A
Dipole	SATIMO SID835	SN 15/16 DIP 0G835-399	N/A	Apr. 28, 2022	Apr. 27, 2025
Dipole	SATIMO SID1800	SN 46/11 DIP 1G800-186	N/A	Apr. 28, 2022	Apr. 27, 2025
Dipole	SATIMO SID1900	SN 29/15 DIP 1G900-389	N/A	Apr. 28, 2022	Apr. 27, 2025
Dipole	SATIMO SID2600	SN 22/16 DIP 2G600-407	N/A	Apr. 28, 2022	Apr. 27, 2025
Signal Generator	Agilent-E4438C	US41461365	V5.03	Aug. 03,2022	Aug. 02,2023
Vector Analyzer	Agilent / E4440A	MY44303916	N/A	Mar. 28, 2022	Mar. 27, 2023
Network Analyzer	Rhode & Schwarz ZVL6	SN101443	3.2	Oct. 28,2021	Oct. 27,2022
Attenuator	Warison /WATT-6SR1211	S/N:WRJ34AYM2F1	N/A	June 08,2022	June 07,2023
Attenuator	Mini-circuits / VAT-10+	31405	N/A	June 08,2022	June 07,2023
Amplifier	AS0104-55_55	1004793	N/A	June 09,2022	June 08,2023
Directional Couple	Werlatone/ C5571-10	SN99463	N/A	Mar. 10,2022	Mar. 09,2024
Directional Couple	Werlatone/ C6026-10	SN99482	N/A	Mar. 10,2022	Mar. 09,2024
Power Sensor	NRP-Z23	100323	N/A	Feb. 16,2022	Feb. 15,2023
Power Viewer	R&S	V2.3.1.0	N/A	N/A	N/A
Calibration standard parts for network sub - port	R&S/ ZV-Z132	N/A	V2.3.1.0	Dec. 07, 2021	Dec. 06, 2022

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- SN 13/22 EPGO368 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	0.175	R	$\sqrt{3}$	√0.5	√0.5	0.071	0.071	∞
Hemispherical Isotropy	E.2.2	0.175	R	$\sqrt{3}$	√0.5	√0.5	0.071	0.071	∞
Boundary effect	E.2.3	1.000	R	$\sqrt{3}$	1	1	0.577	0.577	∞
Linearity	E.2.4	0.990	R	$\sqrt{3}$	1	1	0.572	0.572	∞
System detection limits	E.2.4	1.000	R	$\sqrt{3}$	1	1	0.577	0.577	∞
Modulation response	E2.5	3.000	R	$\sqrt{3}$	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	$\sqrt{3}$	1	1	0.000	0.000	∞
Integration Time	E.2.8	1.400	R	$\sqrt{3}$	1	1	0.808	0.808	∞
RF ambient conditions-Noise	E.6.1	3.000	R	$\sqrt{3}$	1	1	1.732	1.732	∞
RF ambient conditions-reflections	E.6.1	3.000	R	$\sqrt{3}$	1	1	1.732	1.732	∞
Probe positioner mechanical tolerance	E.6.2	1.400	R	$\sqrt{3}$	1	1	0.808	0.808	∞
Probe positioning with respect to phantom shell	E.6.3	1.400	R	$\sqrt{3}$	1	1	0.808	0.808	∞
Extrapolation, interpolation, and integrations algorithms for max. SAR evaluation	E.5	2.300	R	$\sqrt{3}$	1	1	1.328	1.328	∞
Test sample Related									
Test sample positioning	E.4.2	2.6	N	1	1	1	2.600	2.600	∞
Device holder uncertainty	E.4.1	3	N	1	1	1	3.000	3.000	∞
Output power variation—SAR drift measurement	E.2.9	5	R	$\sqrt{3}$	1	1	2.887	2.887	∞
SAR scaling	E.6.5	5	R	$\sqrt{3}$	1	1	2.887	2.887	∞
Phantom and tissue parameters									
Phantom shell uncertainty—shape, thickness, and permittivity	E.3.1	4	R	$\sqrt{3}$	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	R	$\sqrt{3}$	0.78	0.71	3.120	2.840	∞
Liquid permittivity measurement	E.3.3	5	N	1	0.78	0.71	1.150	1.300	M
Liquid conductivity—temperature uncertainty	E.3.4	2.5	R	$\sqrt{3}$	0.23	0.26	1.126	1.025	∞
Liquid permittivity—temperature uncertainty	E.3.4	2.5	N	1	0.23	0.26	0.332	0.375	M
Combined Standard Uncertainty			RSS				10.529	10.344	
Expanded Uncertainty (95% Confidence interval)			K=2				21.058	20.688	

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SATIMO Uncertainty- SN 13/22 EPGO368 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	0.175	R	$\sqrt{3}$	1	1	0.101	0.101	∞
Hemispherical Isotropy	E.2.2	0.175	R	$\sqrt{3}$	0	0	0.000	0.000	∞
Boundary effect	E.2.3	1.000	R	$\sqrt{3}$	1	1	0.577	0.577	∞
Linearity	E.2.4	0.990	R	$\sqrt{3}$	1	1	0.572	0.572	∞
System detection limits	E.2.4	1.0	R	$\sqrt{3}$	1	1	0.58	0.58	∞
Modulation response	E2.5	3.0	R	$\sqrt{3}$	0	0	0.00	0.00	∞
Readout Electronics	E.2.6	0.021	N	1	1	1	0.021	0.021	∞
Response Time	E.2.7	0.0	R	$\sqrt{3}$	0	0	0.00	0.00	∞
Integration Time	E.2.8	1.4	R	$\sqrt{3}$	0	0	0.00	0.00	∞
RF ambient conditions-Noise	E.6.1	3.0	R	$\sqrt{3}$	1	1	1.73	1.73	∞
RF ambient conditions-reflections	E.6.1	3.0	R	$\sqrt{3}$	1	1	1.73	1.73	∞
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	$\sqrt{3}$	1	1	1.33	1.33	∞
System validation source									
Deviation of experimental dipole from numerical dipole	E.6.4	5.0	N	1	1	1	5.00	5.00	∞
Input power and SAR drift measurement	8,6.6.4	5.0	R	$\sqrt{3}$	1	1	2.89	2.89	∞
Dipole axis to liquid distance	8,E.6.6	2.0	R	$\sqrt{3}$	1	1	1.15	1.15	∞
Phantom and set-up									
Phantom shell uncertainty—shape, thickness, and permittivity	E.3.1	4.0	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	1	0.84	1.90	1.60	∞
Liquid conductivity（temperature uncertainty）	E.3.3	2.5	R	$\sqrt{3}$	0.78	0.71	1.13	1.02	∞
Liquid conductivity（measured）	E.3.3	4	N	1	0.78	0.71	3.12	2.84	M
Liquid permittivity（temperature uncertainty）	E.3.4	2.5	R	$\sqrt{3}$	0.23	0.26	0.33	0.38	∞
Liquid permittivity（measured）	E.3.4	5	N	1	0.23	0.26	1.15	1.30	M
Combined Standard Uncertainty			RSS				10.462	10.276	
Expanded Uncertainty (95% Confidence interval)			K=2				20.924	20.551	

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SATIMO Uncertainty- SN 13/22 EPGO368 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	0.50	0.50	∞
Axial Isotropy	E.2.2	0.175	R	$\sqrt{3}$	0	0	0.00	0.00	∞
Hemispherical Isotropy	E.2.2	0.175	R	$\sqrt{3}$	0	0	0.00	0.00	∞
Boundary effect	E.2.3	1.000	R	$\sqrt{3}$	0	0	0.00	0.00	∞
Linearity	E.2.4	0.990	R	$\sqrt{3}$	0	0	0.00	0.00	∞
System detection limits	E.2.4	1.0	R	$\sqrt{3}$	0	0	0.00	0.00	∞
Modulation response	E2.5	3.0	R	$\sqrt{3}$	0	0	0.00	0.00	∞
Readout Electronics	E.2.6	0.021	N	1	0	0	0.00	0.00	∞
Response Time	E.2.7	0	R	$\sqrt{3}$	0	0	0.00	0.00	∞
Integration Time	E.2.8	1.4	R	$\sqrt{3}$	0	0	0.00	0.00	∞
RF ambient conditions-Noise	E.6.1	3.0	R	$\sqrt{3}$	0	0	0.00	0.00	∞
RF ambient conditions-reflections	E.6.1	3.0	R	$\sqrt{3}$	0	0	0.00	0.00	∞
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	0.00	0.00	∞
System check source (dipole)									
Deviation of experimental dipoles	E.6.4	2.0	N	1	1	1	2.00	2.00	∞
Input power and SAR drift measurement	8,6.6.4	5.0	R	$\sqrt{3}$	1	1	2.89	2.89	∞
Dipole axis to liquid distance	8,E.6.6	2.0	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	1	0.84	1.90	1.60	∞
Liquid conductivity measurement	E.3.3	4	R	$\sqrt{3}$	0.78	0.71	3.12	2.84	∞
Liquid permittivity measurement	E.3.3	5	N	1	0.78	0.71	1.15	1.30	M
Liquid conductivity—temperature uncertainty	E.3.4	2.5	R	$\sqrt{3}$	0.23	0.26	1.13	1.02	∞
Liquid permittivity—temperature uncertainty	E.3.4	2.5	N	1	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	32.00	-9	23.00
	836.6	31.98	-9	22.98
	848.8	31.97	-9	22.97
GPRS 850 （1 Slot）	824.2	**32.03**	-9	23.03
	836.6	31.99	-9	22.99
	848.8	31.99	-9	22.99
GPRS 850 （2 Slot）	824.2	29.93	-6	**23.93**
	836.6	29.89	-6	23.89
	848.8	29.87	-6	23.87
GPRS 850 （3 Slot）	824.2	27.85	-4.26	23.59
	836.6	27.80	-4.26	23.54
	848.8	27.81	-4.26	23.55
GPRS 850 （4 Slot）	824.2	25.57	-3	22.57
	836.6	25.56	-3	22.56
	848.8	25.60	-3	22.60

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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	28.03	-9	19.03
	1880	28.28	-9	19.28
	1909.8	**28.35**	-9	19.35
GPRS1900 （1 Slot）	1850.2	28.07	-9	19.07
	1880	28.24	-9	19.24
	1909.8	28.31	-9	19.31
GPRS1900 （2 Slot）	1850.2	26.30	-6	20.30
	1880	26.25	-6	20.25
	1909.8	26.31	-6	20.31
GPRS1900 （3 Slot）	1850.2	24.78	-4.26	**20.52**
	1880	24.72	-4.26	20.46
	1909.8	24.74	-4.26	20.48
GPRS1900 （4 Slot）	1850.2	22.85	-3	19.85
	1880	22.76	-3	19.76
	1909.8	22.76	-3	19.76

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
Note 2:
SAR is not required for GPRS (1 Slot) Mode because its output power is less than of Voice Mode

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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(βc and βd) 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	βc (Note5)	βd	βd (SF)	βc/βd	βHS (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, ΔNACK and ΔCQI = 30/15 with β_{hs} = 30/15 * β_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 ΔNACK = 30/15 with β_{hs} = 30/15 * β_c , and ΔCQI = 24/15 with β_{hs} = 24/15 * β_c .
Note 3: CM = 1 for βc/βd =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.

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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 (βc and βd) 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	βc	βd	βd (SF)	βc/βd	βHS (Note 1)	βec	βed (Note 4) (Note 5)	βed (SF)	βed (Codes)	CM (dB) (Note 2)	MPR (dB) (Note 2) (Note 6)	AG Index (Note 5)	E-TFCI
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	βed1: 47/15 βed2: 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, ΔNACK and ΔCQI = 30/15 with β_{hs} = 30/15 * β_c . For sub-test 5, ΔACK, ΔNACK and ΔCQI = 5/15 with β_{hs} = 5/15 * β_c .
Note 2: CM = 1 for βc/βd =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: βed 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.

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UMTS BAND II

Mode	Frequency (MHz)	Avg. Burst Power (dBm)
WCDMA 1900 RMC	1852.4	**22.33**
	1880	22.01
	1907.6	22.10
HSDPA Subtest 1	1852.4	19.82
	1880	19.62
	1907.6	19.42
HSDPA Subtest 2	1852.4	19.83
	1880	19.33
	1907.6	19.52
HSDPA Subtest 3	1852.4	20.03
	1880	19.73
	1907.6	19.29
HSDPA Subtest 4	1852.4	20.08
	1880	19.51
	1907.6	19.14
HSUPA Subtest 1	1852.4	20.19
	1880	19.66
	1907.6	19.49
HSUPA Subtest 2	1852.4	20.13
	1880	19.80
	1907.6	19.77
HSUPA Subtest 3	1852.4	20.31
	1880	20.14
	1907.6	19.95
HSUPA Subtest 4	1852.4	20.29
	1880	20.16
	1907.6	20.06
HSUPA Subtest 5	1852.4	19.77
	1880	19.26
	1907.6	19.38

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UMTS BAND V

Mode	Frequency (MHz)	Avg. Burst Power (dBm)
WCDMA 850 RMC	826.4	22.32
	836.4	22.41
	846.6	**22.42**
HSDPA Subtest 1	826.4	19.60
	836.4	19.47
	846.6	20.03
HSDPA Subtest 2	826.4	19.62
	836.4	19.56
	846.6	20.13
HSDPA Subtest 3	826.4	20.05
	836.4	19.69
	846.6	19.96
HSDPA Subtest 4	826.4	19.67
	836.4	20.06
	846.6	19.87
HSUPA Subtest 1	826.4	20.12
	836.4	20.16
	846.6	20.39
HSUPA Subtest 2	826.4	20.42
	836.4	20.01
	846.6	20.42
HSUPA Subtest 3	826.4	20.57
	836.4	19.85
	846.6	20.33
HSUPA Subtest 4	826.4	20.34
	836.4	19.56
	846.6	20.12
HSUPA Subtest 5	826.4	19.85
	836.4	20.10
	846.6	20.34

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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≤ CM≤3.5	MAX(CM-1,0)
Note: CM=1 for β_c/β_d=12/15, β_{hs}/β_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.

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LTE Band

Conducted Power of LTE Band 2(dBm)							
Bandwidth	**Modulation**	**RB size**	**RB offset**	**Target MPR**	**Channel 18607**	**Channel 18900**	**Channel 19193**
1.4MHz	QPSK	1	0	0	19.44	19.13	19.39
			3	0	19.62	19.39	19.57
			5	0	19.37	19.10	19.28
		3	0	0	19.42	19.18	19.45
			2	0	19.41	19.22	19.45
			3	0	19.44	19.22	19.39
		6	0	1	18.21	18.24	18.47
	16QAM	1	0	1	18.41	18.36	19.46
			3	1	18.66	18.59	19.72
			5	1	18.41	19.27	19.56
		3	0	1	18.40	18.22	19.63
			2	1	18.41	18.35	19.64
			3	1	18.53	18.36	19.61
		6	0	2	17.71	17.60	17.82
Bandwidth	**Modulation**	**RB size**	**RB offset**	**Target MPR**	**Channel 18615**	**Channel 18900**	**Channel 19185**
3MHz	QPSK	1	0	0	20.28	20.16	20.21
			7	0	20.19	20.01	20.16
			14	0	20.17	19.97	20.26
		8	0	1	19.42	19.91	19.20
			4	1	19.26	19.88	19.16
			7	1	19.99	19.16	19.15
		15	0	1	19.31	19.18	19.26
	16QAM	1	0	1	19.43	19.77	19.83
			7	1	19.42	20.08	19.81
			14	1	19.54	19.67	19.84
		8	0	2	18.41	18.27	18.69
			4	2	18.42	18.26	18.75
			7	2	18.35	18.32	18.72
		15	0	2	17.73	17.56	17.87

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Conducted Power of LTE Band 2(dBm)							
Bandwidth	**Modulation**	**RB size**	**RB offset**	**Target MPR**	**Channel 18625**	**Channel 18900**	**Channel 19175**
5MHz	QPSK	1	0	0	**20.32**	19.90	20.04
			13	0	20.13	19.99	19.81
			24	0	19.59	19.84	19.73
		12	0	1	19.28	18.95	19.08
			6	1	19.28	18.90	19.13
			13	1	19.02	18.90	19.10
		25	0	1	19.27	18.94	19.14
	16QAM	1	0	1	19.36	18.92	19.19
			13	1	19.53	19.02	19.39
			24	1	19.64	18.91	19.47
		12	0	2	18.20	17.90	18.23
			6	2	18.21	17.97	18.24
			13	2	18.13	17.96	18.19
		25	0	2	17.70	17.57	17.69
Bandwidth	**Modulation**	**RB size**	**RB offset**	**Target MPR**	**Channel 18650**	**Channel 18900**	**Channel 19150**
10MHz	QPSK	1	0	0	19.68	20.14	19.62
			25	0	19.79	20.16	19.84
			49	0	19.71	19.49	19.66
		25	0	1	19.11	18.98	18.57
			13	1	18.74	18.93	18.64
			25	1	18.62	18.98	18.71
		50	0	1	19.03	18.96	19.18
	16QAM	1	0	1	19.41	19.17	19.49
			25	1	19.43	19.36	19.71
			49	1	18.98	19.19	19.51
		25	0	2	18.16	18.01	17.79
			13	2	18.20	18.02	17.79
			25	2	18.05	18.08	17.84
		50	0	2	17.66	17.54	17.71

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Conducted Power of LTE Band 4(dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel 19957	Channel 20175	Channel 20393
1.4MHz	QPSK	1	0	0	20.31	20.08	19.79
			3	0	20.26	20.06	19.82
			5	0	20.33	20.01	19.89
		3	0	0	20.25	20.14	19.97
			2	0	20.29	20.02	19.96
			3	0	20.47	20.03	19.90
		6	0	1	19.25	18.98	18.74
	16QAM	1	0	1	19.42	19.38	19.44
			3	1	19.43	19.40	19.52
			5	1	19.54	19.39	19.50
		3	0	1	19.58	18.99	18.87
			2	1	19.56	19.06	18.88
			3	1	19.60	19.02	18.92
		6	0	2	18.65	18.19	17.84
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel 19965	Channel 20175	Channel 20385
3MHz	QPSK	1	0	0	20.26	20.02	20.06
			7	0	20.24	20.11	20.02
			14	0	20.24	20.62	20.01
		8	0	1	19.23	18.97	18.78
			4	1	19.23	18.96	18.79
			7	1	19.25	19.01	18.86
		15	0	1	19.35	19.06	18.77
	16QAM	1	0	1	19.82	20.00	19.03
			7	1	19.85	19.84	19.10
			14	1	19.79	19.94	19.02
		8	0	2	18.73	18.22	18.14
			4	2	18.74	18.23	18.16
			7	2	18.79	18.23	18.25
		15	0	2	18.52	18.17	18.01

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Conducted Power of LTE Band 4(dBm)							
Bandwidth	**Modulation**	**RB size**	**RB offset**	**Target MPR**	**Channel 19975**	**Channel 20175**	**Channel 20375**
5MHz	QPSK	1	0	0	20.24	20.17	19.78
			13	0	20.33	20.01	19.72
			24	0	20.37	20.17	19.79
		12	0	1	19.23	19.66	18.94
			6	1	19.23	19.13	18.95
			13	1	19.24	18.99	18.87
		25	0	1	19.35	18.95	18.73
	16QAM	1	0	1	18.74	19.28	18.48
			13	1	18.73	19.28	18.42
			24	1	18.64	19.31	18.42
		12	0	2	18.47	18.14	17.80
			6	2	18.45	18.14	17.80
			13	2	18.44	18.22	17.86
		25	0	2	18.51	18.09	17.80
Bandwidth	**Modulation**	**RB size**	**RB offset**	**Target MPR**	**Channel 20000**	**Channel 20175**	**Channel 20350**
10MHz	QPSK	1	0	0	20.18	**20.38**	20.06
			25	0	20.25	20.31	20.08
			49	0	20.28	20.11	20.14
		25	0	1	19.15	18.98	18.82
			13	1	19.17	18.99	18.83
			25	1	19.18	18.89	18.83
		50	0	1	19.39	19.13	18.71
	16QAM	1	0	1	19.66	19.45	18.68
			25	1	19.77	19.37	18.71
			49	1	19.66	19.35	18.70
		25	0	2	18.40	18.40	18.12
			13	2	18.42	18.39	17.98
			25	2	18.35	18.29	17.98
		50	0	2	18.44	18.15	17.99

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Conducted Power of LTE Band 5(dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel 20407	Channel 20525	Channel 20643
1.4MHz	QPSK	1	0	0	21.70	21.88	22.18
			3	0	21.80	21.97	22.16
			5	0	21.83	21.93	22.18
		3	0	0	21.76	21.91	22.17
			2	0	21.74	21.90	22.21
			3	0	21.79	22.00	22.18
		6	0	1	20.87	20.88	20.99
	16QAM	1	0	1	21.36	21.61	21.02
			3	1	21.42	21.65	21.06
			5	1	21.46	21.62	21.12
		3	0	1	20.92	20.84	21.10
			2	1	20.90	20.84	21.08
			3	1	20.85	20.98	21.17
		6	0	2	19.92	20.02	20.28
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel 20415	Channel 20525	Channel 20635
3MHz	QPSK	1	0	0	21.62	21.91	22.07
			7	0	21.71	21.95	22.11
			14	0	21.73	21.95	22.20
		8	0	1	20.69	20.83	20.98
			4	1	20.68	20.85	20.98
			7	1	20.70	20.88	20.97
		15	0	1	20.71	20.82	20.98
	16QAM	1	0	1	21.17	21.55	20.98
			7	1	21.13	21.65	20.90
			14	1	21.05	21.68	21.17
		8	0	2	20.07	20.00	20.19
			4	2	20.07	20.01	20.30
			7	2	20.08	19.99	20.31
		15	0	2	19.76	19.92	20.06

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Conducted Power of LTE Band 5(dBm)							
Bandwidth	**Modulation**	**RB size**	**RB offset**	**Target MPR**	**Channel 20425**	**Channel 20525**	**Channel 20625**
5MHz	QPSK	1	0	0	21.78	22.00	21.95
			13	0	21.70	22.01	22.08
			24	0	21.94	22.03	22.05
		12	0	1	20.68	20.77	20.96
			6	1	20.67	20.79	20.95
			13	1	20.65	20.83	21.06
		25	0	1	20.68	20.91	20.99
	16QAM	1	0	1	20.05	21.07	20.76
			13	1	20.02	21.06	20.69
			24	1	20.22	21.15	20.71
		12	0	2	19.80	19.92	19.87
			6	2	19.81	19.93	20.01
			13	2	19.72	19.98	20.01
		25	0	2	19.83	19.86	20.06
Bandwidth	**Modulation**	**RB size**	**RB offset**	**Target MPR**	**Channel 20450**	**Channel 20525**	**Channel 20600**
10MHz	QPSK	1	0	0	21.69	21.67	**22.29**
			25	0	21.82	21.83	22.00
			49	0	21.95	21.76	22.11
		25	0	1	20.63	20.71	20.88
			13	1	20.74	20.72	20.86
			25	1	20.74	20.98	20.93
		50	0	1	20.91	20.89	20.90
	16QAM	1	0	1	20.62	21.08	21.12
			25	1	20.66	21.11	21.05
			49	1	20.62	21.09	21.19
		25	0	2	19.92	19.91	20.08
			13	2	19.91	19.93	20.23
			25	2	20.27	20.18	20.06
		50	0	2	19.78	19.93	20.02

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Conducted Power of LTE Band 7 (dBm)							
Bandwidth	**Modulation**	**RB size**	**RB offset**	**Target MPR**	**Channel 20775**	**Channel 21100**	**Channel 21425**
5MHz	QPSK	1	0	0	22.57	**22.77**	22.33
			12	0	22.52	22.71	22.46
			24	0	22.41	22.72	22.00
		12	0	1	21.65	21.57	21.44
			6	1	21.66	21.58	21.45
			13	1	21.86	21.52	21.38
		25	0	1	21.48	21.66	21.41
	16QAM	1	0	1	21.07	21.74	21.14
			12	1	21.05	21.85	21.18
			24	1	20.96	21.85	21.17
		12	0	2	20.64	20.80	20.49
			6	2	20.68	20.82	20.52
			13	2	20.62	20.80	20.52
		25	0	2	20.78	20.71	20.69
Bandwidth	**Modulation**	**RB size**	**RB offset**	**Target MPR**	**Channel 20800**	**Channel 21100**	**Channel 21400**
10MHz	QPSK	1	0	0	22.56	22.75	22.27
			24	0	22.53	22.71	22.32
			49	0	22.35	22.65	22.41
		25	0	1	21.62	21.64	21.38
			12	1	21.62	21.65	21.40
			25	1	21.55	21.44	21.38
		50	0	1	21.52	21.63	21.41
	16QAM	1	0	1	21.88	21.83	21.67
			24	1	21.83	21.83	21.58
			49	1	21.78	21.74	21.59
		25	0	2	20.63	20.82	20.83
			12	2	20.63	20.85	20.74
			25	2	20.62	20.82	20.79
		50	0	2	20.78	20.82	20.53

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The following tests were conducted according to the test requirements outlined in section 6.2 of the 3GPP TS36.101 specification.
UE Power Class: 3 (23 +/- 2dBm). The allowed Maximum Power Reduction (MPR) for the maximum output power due to higher order modulation and transmit bandwidth configuration (resource blocks) is specified in Table 6.2.3.3-1 of the 3GPP TS36.101.

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

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

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

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

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

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Bluetooth_V5.0(BR/EDR)

Modulation	Channel	Frequency(MHz)	Peak Power (dBm)
GFSK	0	2402	-3.86
	39	2441	-4.11
	78	2480	-2.42
π /4-DQPSK	0	2402	-3.45
	39	2441	-3.65
	78	2480	**-1.67**
8-DPSK	0	2402	-3.00
	39	2441	-3.89
	78	2480	-1.68

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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 5mm 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 ≥0.8W/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 ≥0.8W/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 ≤1.2W/kg, SAR testing with a headset connected is not required.
5. 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.
6. Maximum Scaling SAR in order to calculate the Maximum SAR values to test under the standard Peak Power, Calculation method is as follows:
   Maximum Scaling SAR =tested SAR (Max.) ×[maximum turn-up power (mw)/ maximum measurement output power(mw)]
7. Proximity sensor, just for avoiding the wrong operation in the phone screen when call, and has no influence on output power or SAR result
8. Per KDB 941225 D05v02r05, start with the largest channel bandwidth and measure SAR for QPSK with 1RB allocation using the RB offset and required test channel combination with highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel.
9. Per KDB 941125 D05v02r05, 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure.
10. 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 W/kg, the remaining required test channels must also be tested.

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11. 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 ≤1.45W/kg, Per KDB 941225 D05v02r05, 16QAM SAR testing is not required.
12. 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 ≤1.45W/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				Relative Humidity (%): 53.3					
Product: Mobile Phone									
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)**	**Scaled SAR (W/kg)**	**Limit (W/kg)**
SIM 1 Card									
Left Cheek	voice	190	836.6	0.08	0.348	32.00	31.98	0.350	1.6
Left Tilt	voice	190	836.6	-0.12	0.174	32.00	31.98	0.175	1.6
Right Cheek	voice	190	836.6	-0.15	**0.358**	32.00	31.98	**0.360**	1.6
Right Tilt	voice	190	836.6	0.09	0.189	32.00	31.98	0.190	1.6
Body back	voice	128	824.2	-0.06	0.756	32.00	32.00	0.756	1.6
Body back	voice	190	836.6	0.18	0.747	32.00	31.98	0.750	1.6
Body back	voice	251	848.8	-0.15	0.770	32.00	31.97	0.775	1.6
Body front	voice	190	836.6	0.07	0.381	32.00	31.98	0.383	1.6
Body back	GPRS-2 slot	128	824.2	-0.07	0.951	30.00	29.93	0.966	1.6
Body back	GPRS-2 slot	190	836.6	0.14	1.001	30.00	29.89	1.027	1.6
Body back	GPRS-2 slot	251	848.8	-0.11	**1.098**	30.00	29.87	**1.131**	1.6
Body front	GPRS-2 slot	190	836.6	0.02	0.522	30.00	29.89	0.535	1.6
Edge 1 (Top)	GPRS-2 slot	190	836.6	-0.05	0.048	30.00	29.89	0.049	1.6
Edge 2(Right)	GPRS-2 slot	190	836.6	0.18	0.495	30.00	29.89	0.508	1.6
Edge 3(Bottom)	GPRS-2 slot	190	836.6	-0.13	0.167	30.00	29.89	0.171	1.6
Edge 4(Left)	GPRS-2 slot	190	836.6	0.06	0.568	30.00	29.89	0.583	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 of all above table.

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SAR MEASUREMENT									
Depth of Liquid (cm):>15				Relative Humidity (%): 60.3					
Product: Mobile Phone									
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)**	**Scaled SAR (W/kg)**	**Limit (W/kg)**
SIM 1 Card									
Left Cheek	voice	661	1880.0	-0.18	0.310	28.50	28.28	0.326	1.6
Left Tilt	voice	661	1880.0	-0.12	0.142	28.50	28.28	0.149	1.6
Right Cheek	voice	661	1880.0	0.26	**0.416**	28.50	28.28	**0.438**	1.6
Right Tilt	voice	661	1880.0	0.19	0.114	28.50	28.28	0.120	1.6
Body back	voice	512	1850.2	-0.18	1.237	28.50	28.03	**1.378**	1.6
Body back	voice	661	1880	0.05	1.272	28.50	28.28	1.338	1.6
Body back	voice	810	1909.8	-0.27	**1.319**	28.50	28.35	1.365	1.6
Body front	voice	512	1850.2	0.24	0.904	28.50	28.03	1.007	1.6
Body front	voice	661	1880	-0.11	1.063	28.50	28.28	1.118	1.6
Body front	voice	810	1909.8	-0.12	1.066	28.50	28.35	1.103	1.6
Body back+Ear.	voice	810	1909.8	0.05	1.207	28.50	28.28	1.270	1.6
Body back	GPRS-3 slot	512	1850.2	-0.26	0.849	25.00	24.78	0.893	1.6
Body back	GPRS-3 slot	661	1880	0.18	0.922	25.00	24.72	0.983	1.6
Body back	GPRS-3 slot	810	1909.8	-0.17	0.894	25.00	24.74	0.949	1.6
Body front	GPRS-3 slot	512	1850.2	0.05	0.712	25.00	24.78	0.749	1.6
Body front	GPRS-3 slot	661	1880	-0.24	0.759	25.00	24.72	0.810	1.6
Body front	GPRS-3 slot	810	1909.8	-0.29	0.768	25.00	24.74	0.815	1.6
Edge 1 (Top)	GPRS-3 slot	661	1880.0	-0.12	0.046	25.00	24.72	0.049	1.6
Edge 2(Right)	GPRS-3 slot	661	1880.0	0.15	0.390	25.00	24.72	0.416	1.6
Edge 3(Bottom)	GPRS-3 slot	661	1880.0	-0.08	0.398	25.00	24.72	0.425	1.6
Edge 4(Left)	GPRS-3 slot	661	1880.0	-0.24	0.141	25.00	24.72	0.150	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 5mm of all above table.

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SAR MEASUREMENT									
Depth of Liquid (cm):>15				Relative Humidity (%): 60.3					
Product: Mobile Phone									
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)**	**Scaled SAR (W/kg)**	**Limit (W/kg)**
Left Cheek	RMC 12.2kbps	9400	1880	0.07	0.251	22.50	22.01	0.281	1.6
Left Tilt	RMC 12.2kbps	9400	1880	-0.12	0.133	22.50	22.01	0.149	1.6
Right Cheek	RMC 12.2kbps	9400	1880	0.06	**0.280**	22.50	22.01	**0.313**	1.6
Right Tilt	RMC 12.2kbps	9400	1880	-0.19	0.084	22.50	22.01	0.094	1.6
Body back	RMC 12.2kbps	9400	1880	0.01	**0.612**	22.50	22.01	**0.685**	1.6
Body front	RMC 12.2kbps	9400	1880	-0.08	0.467	22.50	22.01	0.523	1.6
Edge 1 (Top)	RMC 12.2kbps	9400	1880	0.12	0.034	22.50	22.01	0.038	1.6
Edge 2(Right)	RMC 12.2kbps	9400	1880	-0.15	0.274	22.50	22.01	0.307	1.6
Edge 3(Bottom)	RMC 12.2kbps	9400	1880	-0.04	0.294	22.50	22.01	0.329	1.6
Edge 4(Left)	RMC 12.2kbps	9400	1880	0.03	0.129	22.50	22.01	0.144	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 5mm of all above table.

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SAR MEASUREMENT									
Depth of Liquid (cm):>15				Relative Humidity (%): 53.3					
Product: Mobile Phone									
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)**	**Scaled SAR (W/kg)**	**Limit (W/kg)**
Left Cheek	RMC 12.2kbps	4132	826.4	-0.03	0.866	22.50	22.32	0.903	1.6
Left Cheek	RMC 12.2kbps	4183	836.4	0.12	0.866	22.50	22.41	0.884	1.6
Left Cheek	RMC 12.2kbps	4233	846.6	-0.09	0.877	22.50	22.42	0.893	1.6
Left Tilt	RMC 12.2kbps	4183	836.4	0.05	0.551	22.50	22.41	0.563	1.6
Right Cheek	RMC 12.2kbps	4132	826.4	-0.14	**0.901**	22.50	22.32	**0.939**	1.6
Right Cheek	RMC 12.2kbps	4183	836.4	0.12	0.881	22.50	22.41	0.899	1.6
Right Cheek	RMC 12.2kbps	4233	846.6	-0.10	0.863	22.50	22.42	0.879	1.6
Right Tilt	RMC 12.2kbps	4183	836.4	0.08	0.487	22.50	22.41	0.497	1.6
Body back	RMC 12.2kbps	4132	826.4	-0.14	1.125	22.50	22.32	1.173	1.6
Body back	RMC 12.2kbps	4183	836.4	0.16	1.133	22.50	22.41	1.157	1.6
Body back	RMC 12.2kbps	4233	846.6	-0.12	**1.165**	22.50	22.42	**1.187**	1.6
Body front	RMC 12.2kbps	4132	826.4	0.08	0.829	22.50	22.32	0.864	1.6
Body front	RMC 12.2kbps	4183	836.4	-0.11	0.789	22.50	22.41	0.806	1.6
Body front	RMC 12.2kbps	4233	846.6	0.05	0.701	22.50	22.42	0.714	1.6
Edge 1 (Top)	RMC 12.2kbps	4183	836.4	-0.10	0.038	22.50	22.41	0.039	1.6
Edge 2(Right)	RMC 12.2kbps	4183	836.4	-0.07	0.689	22.50	22.41	0.703	1.6
Edge 3(Bottom)	RMC 12.2kbps	4183	836.4	0.12	0.167	22.50	22.41	0.170	1.6
Edge 4(Left)	RMC 12.2kbps	4183	836.4	0.14	0.747	22.50	22.41	0.763	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 5mm of all above table.

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SAR MEASUREMENT													
Depth of Liquid (cm):>15						Relative Humidity (%): 60.3							
Product: Mobile Phone													
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)	Scaled SAR (W/kg)	Limit (W/kg)
			UL RB Allocation	UL RB START								
10	QPSK	Left Cheek	1	0	18900	1880	-0.13	0.440	20.50	20.14	0.478	1.6
		Left Tilt	1	0	18900	1880	0.08	0.205	20.50	20.14	0.223	1.6
		Right Cheek	1	0	18900	1880	-0.12	**0.531**	20.50	20.14	**0.577**	1.6
		Right Tilt	1	0	18900	1880	-0.10	0.162	20.50	20.14	0.176	1.6
		Body back	1	0	18650	1855	0.09	0.695	20.50	19.68	0.839	1.6
		Body back	1	0	18900	1880	-0.04	**0.891**	20.50	20.14	0.968	1.6
		Body back	1	0	19150	1905	0.05	0.849	20.50	19.62	**1.040**	1.6
		Body front	1	0	18900	1880	0.17	0.704	20.50	20.14	0.765	1.6
		Edge 1 (Top)	1	0	18900	1880	-0.12	0.074	20.50	20.14	0.080	1.6
		Edge 2(Right)	1	0	18900	1880	-0.08	0.446	20.50	20.14	0.485	1.6
		Edge 3(Bottom)	1	0	18900	1880	0.15	0.450	20.50	20.14	0.489	1.6
		Edge 4(Left)	1	0	18900	1880	0.10	0.199	20.50	20.14	0.216	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 5mm of all above table.

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SAR MEASUREMENT													
Depth of Liquid (cm):>15					Relative Humidity (%): 58.2								
Product: Mobile Phone													
Test Mode: LTE Band 4													
BM MHz	**MOD**	**Position**	**Test Mode**		**Ch.**	**Freq. (MHz)**	**Power Drift (<±5%)**	**SAR (1g) (W/kg)**	**Max. Tuneup Power (dBm)**	**Meas. output Power (dBm)**	**Scaled SAR (W/kg)**	**Limit (W/kg)**
			UL RB Allocation	**UL RB START**								
10	**QPSK**	Left Cheek	1	0	20175	1732.5	0.17	**0.379**	20.50	20.38	**0.390**	1.6
		Left Tilt	1	0	20175	1732.5	-0.12	0.183	20.50	20.38	0.188	1.6
		Right Cheek	1	0	20175	1732.5	0.15	0.379	20.50	20.38	0.390	1.6
		Right Tilt	1	0	20175	1732.5	-0.08	0.247	20.50	20.38	0.254	1.6
		Body back	1	0	20000	1715	0.06	1.280	20.20	20.18	1.286	1.6
		Body back	1	0	20175	1732.5	-0.10	1.211	20.50	20.38	1.245	1.6
		Body back	1	0	20350	1750	0.18	**1.493**	20.10	20.06	**1.507**	1.6
		Body front	1	0	20175	1732.5	-0.14	0.487	20.50	20.38	0.501	1.6
		Body back+ Ear.	1	0	20350	1750	0.12	1.479	20.10	20.06	1.493	1.6
		Edge 1 (Top)	1	0	20175	1732.5	-0.08	0.026	20.50	20.38	0.027	1.6
		Edge 2(Right)	1	0	20175	1732.5	0.05	0.268	20.50	20.38	0.276	1.6
		Edge 3(Bottom)	1	0	20175	1732.5	-0.04	0.424	20.50	20.38	0.436	1.6
		Edge 4(Left)	1	0	20175	1732.5	0.09	0.109	20.50	20.38	0.112	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 5mm of all above table.

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SAR MEASUREMENT													
Depth of Liquid (cm):>15					Relative Humidity (%): 53.3								
Product: Mobile Phone													
Test Mode: LTE Band 5													
BM MHz	MOD	Position	Test Mode		Ch.	Freq. (MHz)	Power Drift (<±5%)	SAR (1g) (W/kg)	Max. Tuneup Power (dBm)	Meas. output Power (dBm)	Scaled SAR (W/kg)	Limit (W/kg)
			UL RB Allocation	UL RB START								
10	QPSK	Left Cheek	1	0	20450	829	-0.12	0.909	22.00	21.69	0.976	1.6
		Left Cheek	1	0	20525	836.5	0.23	0.896	22.00	21.67	0.967	1.6
		Left Cheek	1	0	20600	844	-0.26	0.914	22.50	22.29	0.959	1.6
		Left Tilt	1	0	20525	836.5	0.08	0.504	22.50	21.67	0.610	1.6
		Right Cheek	1	0	20450	829	-0.14	0.974	22.00	21.69	**1.046**	1.6
		Right Cheek	1	0	20525	836.5	0.28	0.927	22.00	21.67	1.000	1.6
		Right Cheek	1	0	20600	844	-0.25	**0.981**	22.50	22.29	1.030	1.6
		Right Tilt	1	0	20525	836.5	0.19	0.546	22.50	21.67	0.661	1.6
		Body back	1	0	20450	829	-0.20	1.354	22.00	21.69	1.454	1.6
		Body back	1	0	20525	836.5	0.17	**1.398**	22.00	21.67	**1.508**	1.6
		Body back	1	0	20600	844	-0.05	1.245	22.50	22.29	1.307	1.6
		Body front	1	0	20450	829	0.14	0.944	22.00	21.69	1.014	1.6
		Body front	1	0	20525	836.5	-0.23	0.987	22.00	21.67	1.065	1.6
		Body front	1	0	20600	844	0.08	0.853	22.50	22.29	0.895	1.6
		Body back+ Ear.	1	0	20525	836.5	-0.12	1.309	22.00	21.67	1.412	1.6
		Edge 1 (Top)	1	0	20525	836.5	0.09	0.039	22.50	21.67	0.047	1.6
		Edge 2(Right)	1	0	20450	829	-0.14	0.761	22.00	21.69	0.817	1.6
		Edge 2(Right)	1	0	20525	836.5	-0.21	0.939	22.00	21.67	1.013	1.6
		Edge 2(Right)	1	0	20600	844	-0.05	0.547	22.50	22.29	0.574	1.6
		Edge 3(Bottom)	1	0	20525	836.5	0.08	0.175	22.50	21.67	0.212	1.6
		Edge 4(Left)	1	0	20450	829	-0.04	0.757	22.00	21.69	0.813	1.6
		Edge 4(Left)	1	0	20525	836.5	-0.14	0.967	22.00	21.67	1.043	1.6
		Edge 4(Left)	1	0	20600	844	0.12	0.935	22.50	22.29	0.981	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 5mm of all above table.

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SAR MEASUREMENT													
Depth of Liquid (cm):>15						Relative Humidity (%): 57.8							
Product: Mobile Phone													
Test Mode: LTE Band 7													
BM MHz	**MOD**	**Position**	**Test Mode**		**Ch.**	**Freq. (MHz)**	**Power Drift (<±5%)**	**SAR (1g) (W/kg)**	**Max. Tuneup Power (dBm)**	**Meas. output Power (dBm)**	**Scaled SAR (W/kg)**	**Limit (W/kg)**
			UL RB Allocation	**UL RB START**								
10	**QPSK**	Left Cheek	1	0	21100	2535	-0.16	0.516	23.00	22.75	0.547	1.6
		Left Tilt	1	0	21100	2535	0.12	0.322	23.00	22.75	0.341	1.6
		Right Cheek	1	0	21100	2535	0.18	**0.595**	23.00	22.75	**0.630**	1.6
		Right Tilt	1	0	21100	2535	-0.05	0.325	23.00	22.75	0.344	1.6
		Body back	1	0	20800	2505	-0.04	1.144	23.00	22.56	1.266	1.6
		Body back	1	0	21100	2535	0.17	**1.328**	23.00	22.75	**1.407**	1.6
		Body back	1	0	21400	2565	0.15	1.290	22.50	22.27	1.360	1.6
		Body front	1	0	21100	2535	-0.08	0.453	23.00	22.75	0.480	1.6
		Body back+ Ear.	1	0	21100	2535	0.12	1.157	23.00	22.75	1.226	1.6
		Edge 1 (Top)	1	0	21100	2535	-0.04	0.088	23.00	22.75	0.093	1.6
		Edge 2(Right)	1	0	21100	2535	-0.13	0.546	23.00	22.75	0.578	1.6
		Edge 3(Bottom)	1	0	21100	2535	0.07	0.623	23.00	22.75	0.660	1.6
		Edge 4(Left)	1	0	21100	2535	0.05	0.136	23.00	22.75	0.144	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 5mm of all above table.

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Repeated SAR											
Product: Mobile Phone											
Test Mode: GSM850& PCS1900& WCDMA Band V& LTE Band 2& LTE Band 4& LTE Band 5& LTE Band 7											
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-2 slot		251	848.8	0.09	**1.127**	--	--	--	--	1.6
Body back	voice		810	1909.8	-0.14	**1.345**	--	--	--	--	1.6
Body back	RMC 12.2kbps		4233	846.6	-0.12	**1.163**	--	--	--	--	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	0.10	**0.836**	--	--	--	--	1.6
Body back	1	0	20350	1750	-0.17	**1.498**	**-0.15**	**1.492**	--	--	1.6
Body back	1	0	20525	836.5	-0.06	**1.276**	--	--	--	--	1.6
Body back	1	0	21100	2535	0.13	**1.165**	--	--	--	--	1.6

The second repeated SAR judge reference									
Product: Mobile Phone									
Band	**Position**	**Mode**		**Ch.**	**Fr. (MHz)**	**Orignal SAR (1g) (W/kg)**	**First SAR (1g) (W/kg)**	**Ratio**	**Limit**
GSM850	Body back	GPRS-2 slot		251	848.8	1.098	1.127	0.974	<1.2
PCS1900	Body back	voice		810	1909.8	1.319	1.345	0.981	<1.2
WCDMA Band V	Body back	RMC 12.2kbps		4233	846.6	1.165	1.163	1.002	<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	0.891	0.836	1.066	<1.2
LTE Band 4	Body back	1	0	20350	1750	1.493	1.492	0.991	<1.2
LTE Band 5	Body back	1	0	20525	836.5	1.398	1.276	1.096	<1.2
LTE Band 7	Body back	1	0	21100	2535	1.328	1.165	1.140	<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)+ Bluetooth(data)	Yes	Yes	-
2	GSM (Data) + Bluetooth(data)	-	Yes	-
3	WCDMA+ Bluetooth(data)	Yes	Yes	-
4	LTE + Bluetooth(data)	Yes	Yes	-

NOTE:

1. Simultaneous with every transmitter must be the same test position.
2. KDB 447498 D01, BT SAR is excluded as below table.
3. 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 5mm for body-worn SAR.
4. 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:
   [(max. power of channel, including tune-up tolerance, mW) / (min. test separation distance, mm)] • [√f(GHz)] ≤ 3.0 for 1-g SAR, and ≤ 7.5 for 10-g extremity SAR[30], where
   - f(GHz) is the RF channel transmit frequency in GHz
   - Power and distance are rounded to the nearest mW and mm before calculation[31]
   - 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.
5. If the test separation distance is <5mm, 5mm is used for excluded SAR calculation.
6. 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
   (max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)]·[√f(GHz)/x] W/kg for test separation distances ≤ 50 mm;
   where x = 7.5 for 1-g SAR, and x = 18.75 for 10-g SAR.

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7. 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/Ri, 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	-1.00	0.79	0	0.033
	Body	-1.00	0.79	5	0.033

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Sum of the SAR for GSM 850 & BT:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario		Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		GSM 850	Bluetooth		
Head (voice)	Left Touch	0.350		0.350	No
	Left Tilt	0.175		0.175	No
	Right Touch	0.360		0.360	No
	Right Tilt	0.190		0.190	No
Head (voice)	Left Touch	0.350	0.033	0.383	No
	Left Tilt	0.175	0.033	0.208	No
	Right Touch	0.360	0.033	0.393	No
	Right Tilt	0.190	0.033	0.223	No
Body-worn (voice)	Rear	0.775		0.775	No
		0.775	0.033	0.808	No
	Front	0.383		0.383	No
		0.383	0.033	0.416	No
Body-worn (Data)	Rear	1.131	0.033	1.164	No
		1.131		1.131	No
	Front	0.535	0.033	0.568	No
		0.535		0.535	No
Body-worn	Edge 1	0.049		0.049	No
	Edge 2	0.508		0.508	No
	Edge 3	0.171		0.171	No
	Edge 4	0.583		0.583	No
	Edge 1	0.049	0.033	0.082	No
	Edge 2	0.508	0.033	0.541	No
	Edge 3	0.171	0.033	0.204	No
	Edge 4	0.583	0.033	0.616	No

Note:

·According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than1.6 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 GSM 1900 & BT:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario		Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		GSM 1900	Bluetooth		
Head (voice)	Left Touch	0.326		0.326	No
	Left Tilt	0.149		0.149	No
	Right Touch	0.438		0.438	No
	Right Tilt	0.120		0.120	No
Head (voice)	Left Touch	0.326	0.033	0.359	No
	Left Tilt	0.149	0.033	0.182	No
	Right Touch	0.438	0.033	0.471	No
	Right Tilt	0.120	0.033	0.153	No
Body-worn (voice)	Rear	1.378		1.378	No
		1.378	0.033	1.411	No
	Front	1.118		1.118	No
		1.118	0.033	1.151	No
Body-worn (Data)	Rear	0.983	0.033	1.016	No
		0.983		0.983	No
	Front	0.815	0.033	0.848	No
		0.815		0.815	No
Body-worn	Edge 1	0.049		0.049	No
	Edge 2	0.416		0.416	No
	Edge 3	0.425		0.425	No
	Edge 4	0.150		0.150	No
	Edge 1	0.049	0.033	0.082	No
	Edge 2	0.416	0.033	0.449	No
	Edge 3	0.425	0.033	0.458	No
	Edge 4	0.150	0.033	0.183	No

Note:

·According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than1.6 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 & BT:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario		Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		WCDMA Band II	Bluetooth		
Head	Left Touch	0.281		0.281	No
	Left Tilt	0.149		0.149	No
	Right Touch	0.313		0.313	No
	Right Tilt	0.094		0.094	No
Head	Left Touch	0.281	0.033	0.314	No
	Left Tilt	0.149	0.033	0.182	No
	Right Touch	0.313	0.033	0.346	No
	Right Tilt	0.094	0.033	0.127	No
Body-worn	Rear	0.685		0.685	No
	Front	0.523		0.523	No
	Edge 1	0.038		0.038	No
	Edge 2	0.307		0.307	No
	Edge 3	0.329		0.329	No
	Edge 4	0.144		0.144	No
	Rear	0.685	0.033	0.718	No
	Front	0.523	0.033	0.556	No
	Edge 1	0.038	0.033	0.071	No
	Edge 2	0.307	0.033	0.340	No
	Edge 3	0.329	0.033	0.362	No
	Edge 4	0.144	0.033	0.177	No

Note:

·According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than1.6 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 & BT:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario		Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		WCDMA Band V	Bluetooth		
Head	Left Touch	0.903		0.903	No
	Left Tilt	0.563		0.563	No
	Right Touch	0.939		0.939	No
	Right Tilt	0.497		0.497	No
Head	Left Touch	0.903	0.033	0.936	No
	Left Tilt	0.563	0.033	0.596	No
	Right Touch	0.939	0.033	0.972	No
	Right Tilt	0.497	0.033	0.530	No
Body-worn	Rear	1.187		1.187	No
	Front	0.864		0.864	No
	Edge 1	0.039		0.039	No
	Edge 2	0.703		0.703	No
	Edge 3	0.170		0.170	No
	Edge 4	0.763		0.763	No
	Rear	1.187	0.033	1.220	No
	Front	0.864	0.033	0.897	No
	Edge 1	0.039	0.033	0.072	No
	Edge 2	0.703	0.033	0.736	No
	Edge 3	0.170	0.033	0.203	No
	Edge 4	0.763	0.033	0.796	No

Note:

·According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than1.6 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 2 & BT:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario		Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 2	Bluetooth		
Head	Left Touch	0.478		0.478	No
	Left Tilt	0.223		0.223	No
	Right Touch	0.577		0.577	No
	Right Tilt	0.176		0.176	No
Head	Left Touch	0.478	0.033	0.511	No
	Left Tilt	0.223	0.033	0.256	No
	Right Touch	0.577	0.033	0.610	No
	Right Tilt	0.176	0.033	0.209	No
Body-worn	Rear	1.040		1.040	No
	Front	0.765		0.765	No
	Edge 1	0.080		0.080	No
	Edge 2	0.485		0.485	No
	Edge 3	0.489		0.489	No
	Edge 4	0.216		0.216	No
	Rear	1.040	0.033	1.073	No
	Front	0.765	0.033	0.798	No
	Edge 1	0.080	0.033	0.113	No
	Edge 2	0.485	0.033	0.518	No
	Edge 3	0.489	0.033	0.522	No
	Edge 4	0.216	0.033	0.249	No

Note:

·According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than1.6 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 & BT:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario		Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 4	Bluetooth		
Head	Left Touch	0.390		0.390	No
	Left Tilt	0.188		0.188	No
	Right Touch	0.390		0.390	No
	Right Tilt	0.254		0.254	No
Head	Left Touch	0.390	0.033	0.423	No
	Left Tilt	0.188	0.033	0.221	No
	Right Touch	0.390	0.033	0.423	No
	Right Tilt	0.254	0.033	0.287	No
Body-worn	Rear	1.507		1.507	No
	Front	0.501		0.501	No
	Edge 1	0.027		0.027	No
	Edge 2	0.276		0.276	No
	Edge 3	0.436		0.436	No
	Edge 4	0.112		0.112	No
	Rear	1.507	0.033	1.540	No
	Front	0.501	0.033	0.534	No
	Edge 1	0.027	0.033	0.060	No
	Edge 2	0.276	0.033	0.309	No
	Edge 3	0.436	0.033	0.469	No
	Edge 4	0.112	0.033	0.145	No

Note:

·According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than1.6 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 5 & BT:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario		Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 5	Bluetooth		
Head	Left Touch	0.976		0.976	No
	Left Tilt	0.610		0.610	No
	Right Touch	1.046		1.046	No
	Right Tilt	0.661		0.661	No
Head	Left Touch	0.976	0.033	1.009	No
	Left Tilt	0.610	0.033	0.643	No
	Right Touch	1.046	0.033	1.079	No
	Right Tilt	0.661	0.033	0.694	No
Body-worn	Rear	1.508		1.508	No
	Front	1.065		1.065	No
	Edge 1	0.047		0.047	No
	Edge 2	1.013		1.013	No
	Edge 3	0.212		0.212	No
	Edge 4	1.043		1.043	No
	Rear	1.508	0.033	**1.541**	No
	Front	1.065	0.033	1.098	No
	Edge 1	0.047	0.033	0.080	No
	Edge 2	1.013	0.033	1.046	No
	Edge 3	0.212	0.033	0.245	No
	Edge 4	1.043	0.033	1.076	No

Note:

·According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than1.6 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 7 & BT:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario		Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 7	Bluetooth		
Head	Left Touch	0.547		0.547	No
	Left Tilt	0.341		0.341	No
	Right Touch	0.630		0.630	No
	Right Tilt	0.344		0.344	No
Head	Left Touch	0.547	0.033	0.580	No
	Left Tilt	0.341	0.033	0.374	No
	Right Touch	0.630	0.033	0.663	No
	Right Tilt	0.344	0.033	0.377	No
Body-worn	Rear	1.407		1.407	No
	Front	0.480		0.480	No
	Edge 1	0.093		0.093	No
	Edge 2	0.578		0.578	No
	Edge 3	0.660		0.660	No
	Edge 4	0.144		0.144	No
	Rear	1.407	0.033	1.440	No
	Front	0.480	0.033	0.513	No
	Edge 1	0.093	0.033	0.126	No
	Edge 2	0.578	0.033	0.611	No
	Edge 3	0.660	0.033	0.693	No
	Edge 4	0.144	0.033	0.177	No

Note:

·According to KDB 447498 D01 General RF Exposure Guidance, when the simultaneous transmission SAR is less than1.6 W/kg, SPLSR assessment is not required.

·SPLSR mean is “The SAR to Peak Location Separation Ratio “

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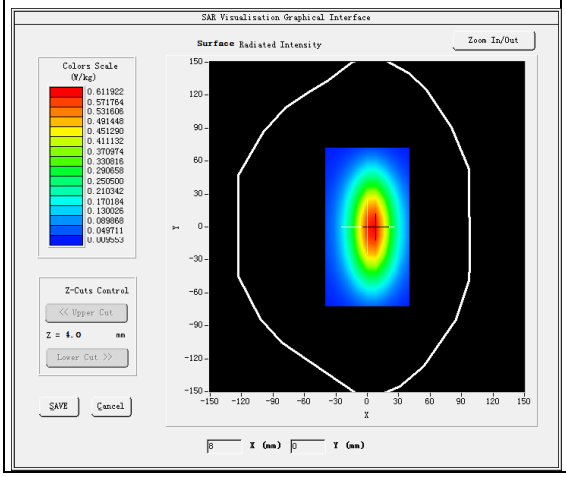
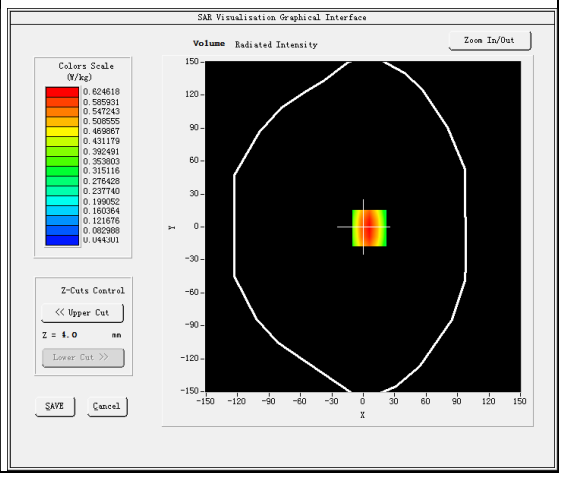
APPENDIX A. SAR SYSTEM CHECK DATA

Test Laboratory: AGC Lab **Date: Oct. 08, 2022**
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=1.42
Frequency: 835 MHz; Medium parameters used: f = 835 MHz; σ=0.93 mho/m; εr =41.84; ρ= 1000 kg/m³ ;
Phantom section: Flat Section; Input Power=18dBm
Ambient temperature (℃):20.8, Liquid temperature (℃): 20.6

SATIMO Configuration:

- Probe: SSE2; Calibrated: Apr. 13, 2022; Serial No.: SN 13/22 EPGO368
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_35

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

SURFACE SAR	VOLUME SAR
	

Maximum location: X=6.00, Y=-1.00
SAR Peak: 0.89 W/kg

SAR 10g (W/Kg)	0.393985
SAR 1g (W/Kg)	0.609124

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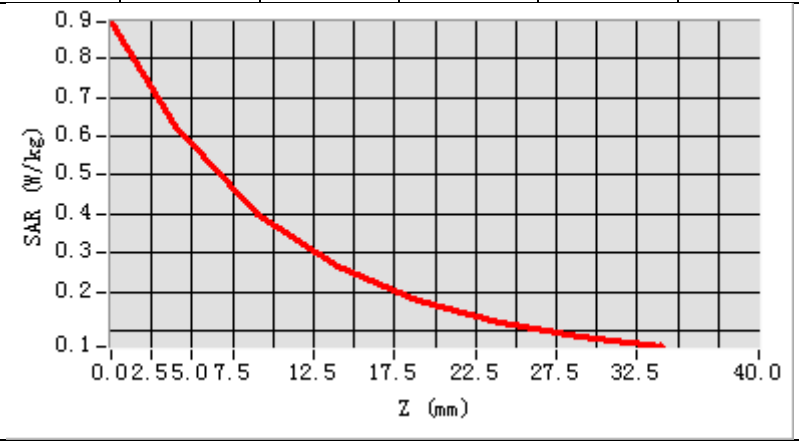
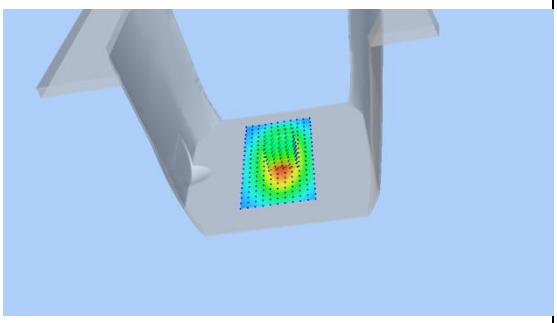
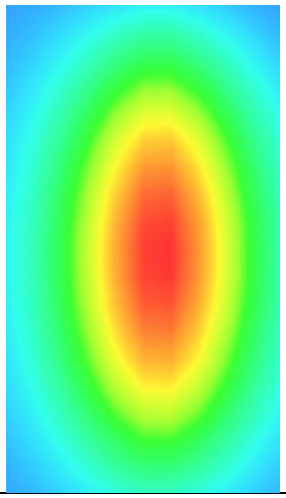
Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.8917	0.6228	0.4036	0.2682	0.1774	0.1236	0.0872



3D screen shot	Hot spot position
	

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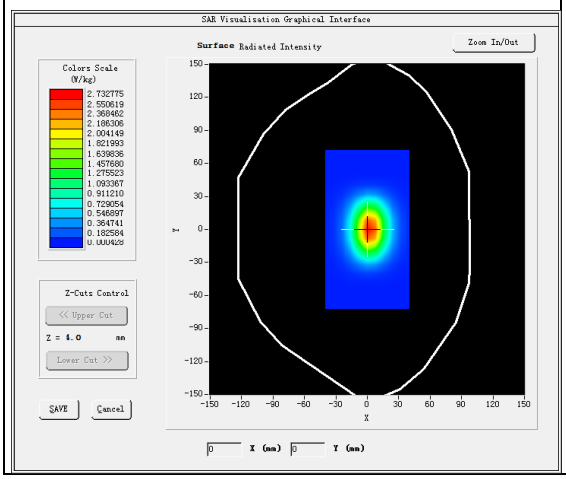
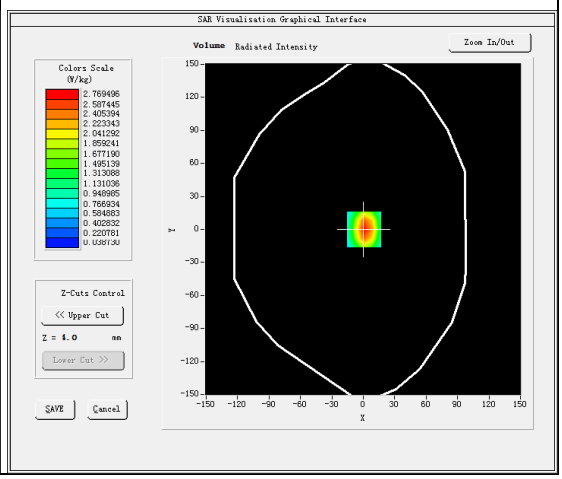
Test Laboratory: AGC Lab **Date: Oct. 11, 2022**
System Check Head 1750MHz
DUT: Dipole 1800 MHz; Type: SID 1800
Communication System: CW; Communication System Band: D1700 (1750.0 MHz); Duty Cycle:1:1; Conv.F=1.73
Frequency: 1750 MHz; Medium parameters used: f = 1750MHz; σ=1.41 mho/m; εr =39.58; ρ= 1000 kg/m³ ;
Phantom section: Flat Section; Input Power=18dBm
Ambient temperature (℃): 21.8, Liquid temperature (℃): 21.5

SATIMO Configuration:
Probe: SSE2; Calibrated: Apr. 13, 2022; Serial No.: SN 13/22 EPGO368

- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_35

Configuration/System Check 1750MHz Head/Area Scan: Measurement grid: dx=8mm,dy=8mm
Configuration/System Check 1750MHz Head/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm

SURFACE SAR	VOLUME SAR
	

Maximum location: X=1.00, Y=0.00
SAR Peak: 4.52 W/kg

SAR 10g (W/Kg)	1.321824
SAR 1g (W/Kg)	2.583476

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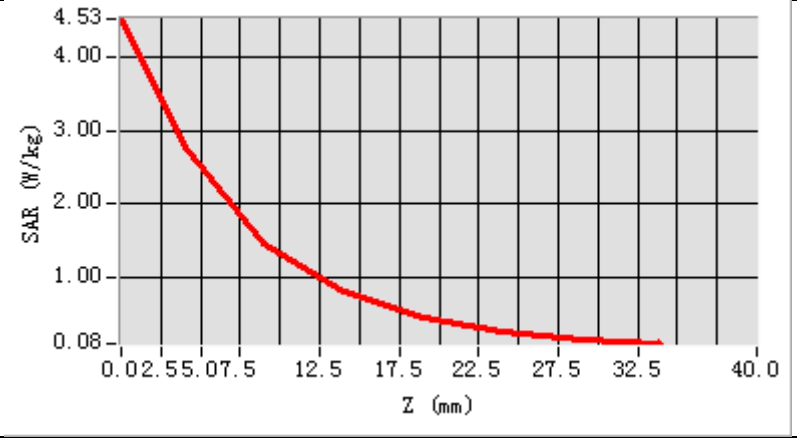
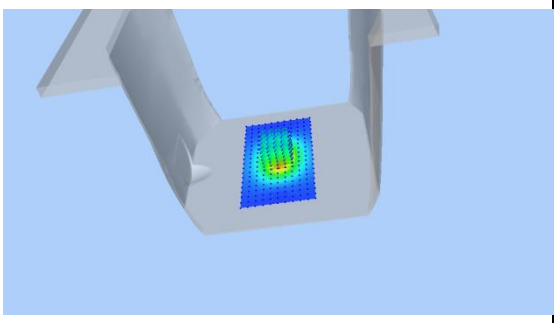
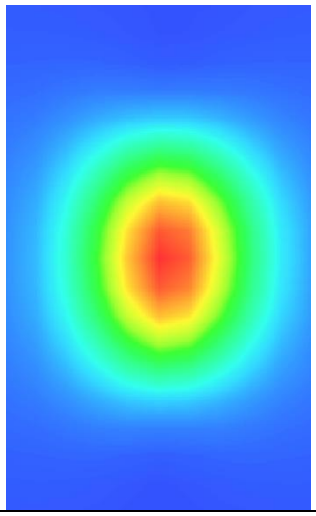
Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	4.5314	2.7683	1.4474	0.7936	0.4437	0.2474	0.1425



3D screen shot	Hot spot position
	

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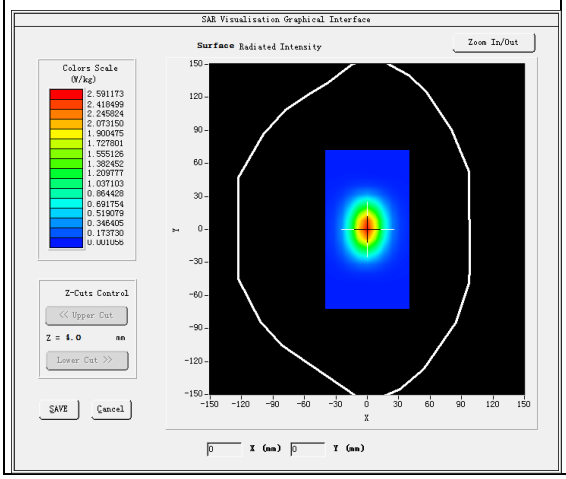
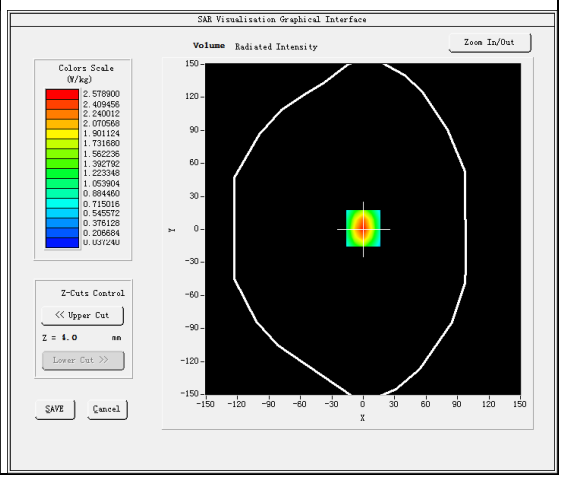
Test Laboratory: AGC Lab **Date: Oct. 10, 2022**
System Check Head 1900MHz
DUT: Dipole 1900 MHz; Type: SID 1900
Communication System: CW; Communication System Band: D1900 (1900.0 MHz); Duty Cycle:1:1; Conv.F=1.77
Frequency: 1900 MHz; Medium parameters used: f = 1800 MHz; σ=1.37 mho/m; εr =39.41; ρ= 1000 kg/m³ ;
Phantom section: Flat Section; Input Power=18dBm
Ambient temperature (℃):22.7, Liquid temperature (℃): 22.3

SATIMO Configuration:
Probe: SSE2; Calibrated: Apr. 13, 2022; Serial No.: SN 13/22 EPGO368

- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_35

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

SURFACE SAR	VOLUME SAR
	

Maximum location: X=0.00, Y=1.00
SAR Peak: 4.47 W/kg

SAR 10g (W/Kg)	1.259681
SAR 1g (W/Kg)	2.498295

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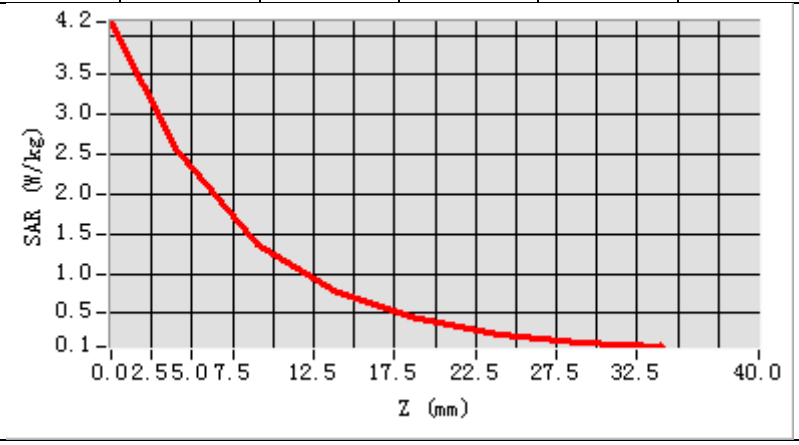
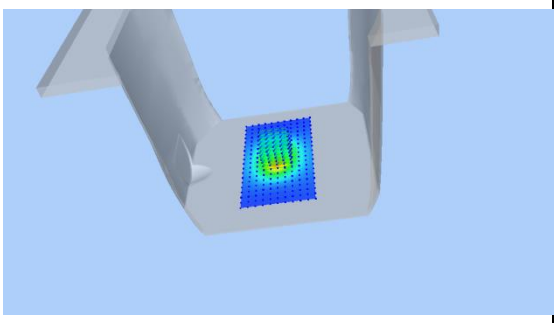
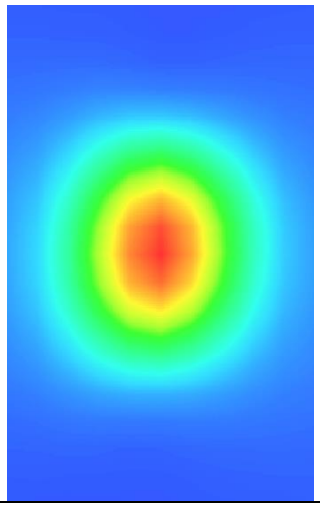
Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	4.1936	2.5971	1.4245	0.9341	0.6251	0.4036	0.1725



3D screen shot	Hot spot position
	

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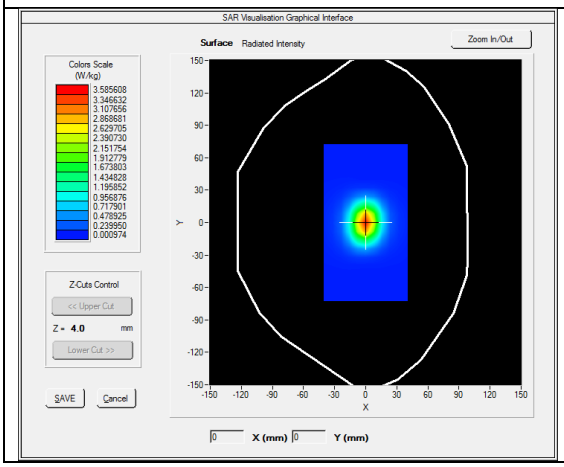
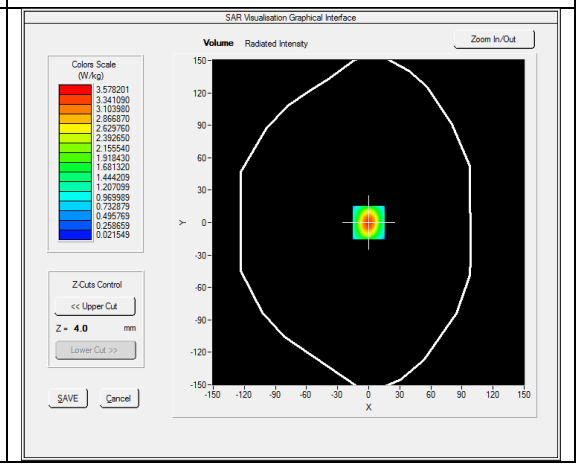
Test Laboratory: AGC Lab **Date: Oct. 09, 2022**
System Check Head 2600MHz
DUT: Dipole 2600 MHz; Type: SID 2600
Communication System: CW; Communication System Band: D2600 (2600.0 MHz); Duty Cycle: 1:1; Conv.F=1.82
Frequency:2600 MHz; Medium parameters used: f = 2600 MHz; σ=1.99 mho/m; εr =39.76; ρ= 1000 kg/m³ ;
Phantom section: Flat Section; Input Power=18dBm
Ambient temperature (℃): 22.4, Liquid temperature (℃): 21.9

SATIMO Configuration:

- Probe: SSE2; Calibrated: Apr. 13, 2022; Serial No.: SN 13/22 EPGO368
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_35

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

SURFACE SAR	VOLUME SAR
	

Maximum location: X=0.00, Y=0.00
SAR Peak: 5.99 W/kg

SAR 10g (W/Kg)	1.517243
SAR 1g (W/Kg)	3.466754

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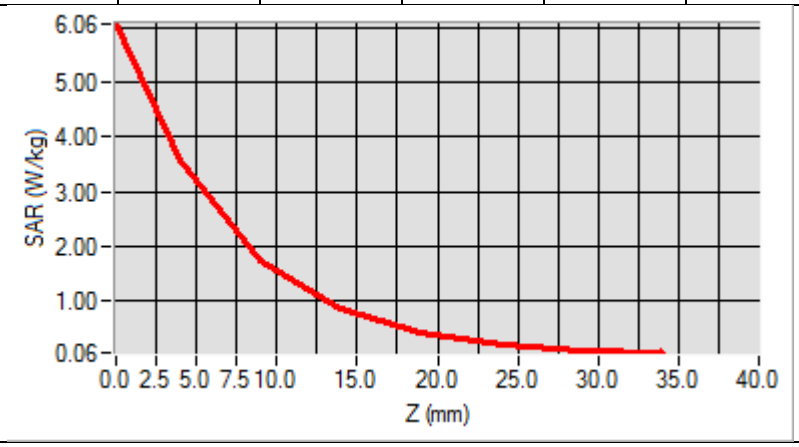
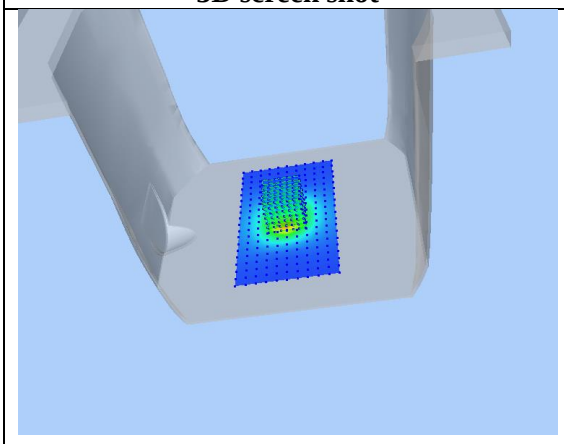
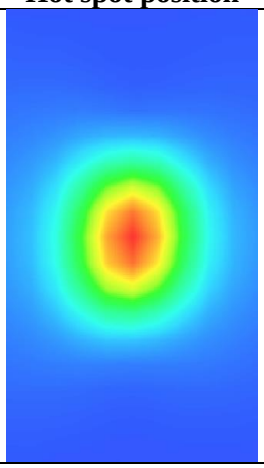
Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	6.0639	3.5775	1.7472	0.8654	0.4363	0.2218	0.1147



3D screen shot	Hot spot position
	

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APPENDIX B. SAR MEASUREMENT DATA

Test Laboratory: AGC Lab **Date: Oct. 08, 2022**
GSM 850 Mid- Touch-Right <SIM 1>
DUT: Mobile Phone; Type: NET

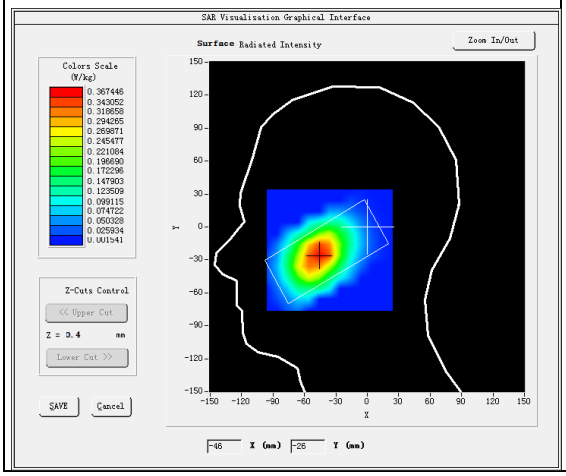
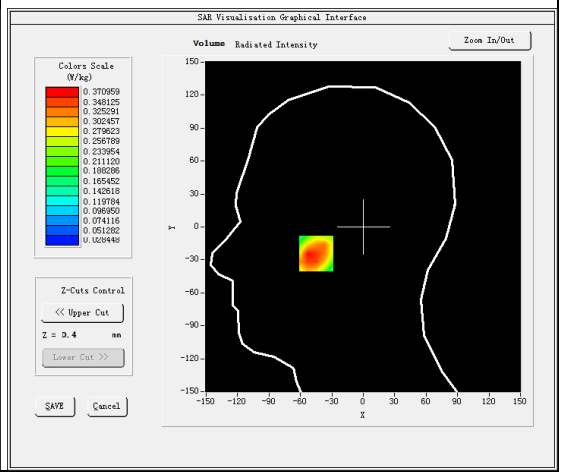
Communication System: Generic GSM; Communication System Band: GSM 850; Duty Cycle: 1:8.3; Conv.F=1.42; Frequency: 836.6 MHz; Medium parameters used: f = 835 MHz; σ= 0.94 mho/m; εr = 41.65; ρ= 1000 kg/m³ ;
Phantom section: Right Section
Ambient temperature (℃): 20.8, Liquid temperature (℃): 20.6

SATIMO Configuration:

- Probe: SSE2; Calibrated: Apr. 13, 2022; Serial No.: SN 13/22 EPGO368
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_35

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)

SURFACE SAR	VOLUME SAR
	

Maximum location: X=-45.00, Y=-24.00
SAR Peak: 0.55 W/kg

SAR 10g (W/Kg)	0.230682
SAR 1g (W/Kg)	0.358049

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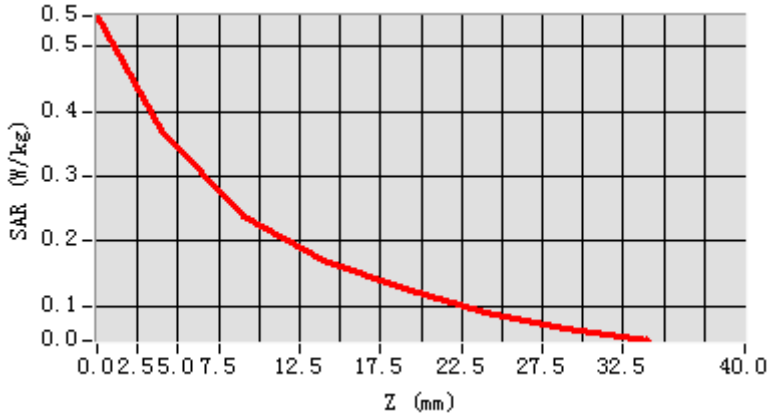
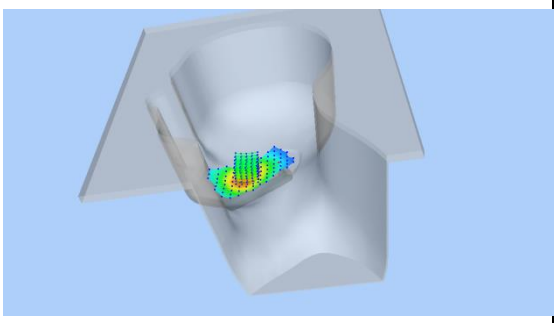
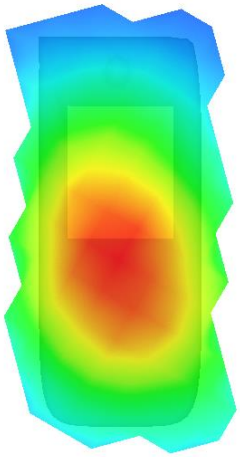
Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.5480	0.3710	0.2376	0.1708	0.1252	0.0885	0.0643



3D screen shot	Hot spot position
	

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Test Laboratory: AGC Lab **Date: Oct. 08, 2022**
GPRS 850 High- Body- Back (2up)
DUT: Mobile Phone; Type: NET

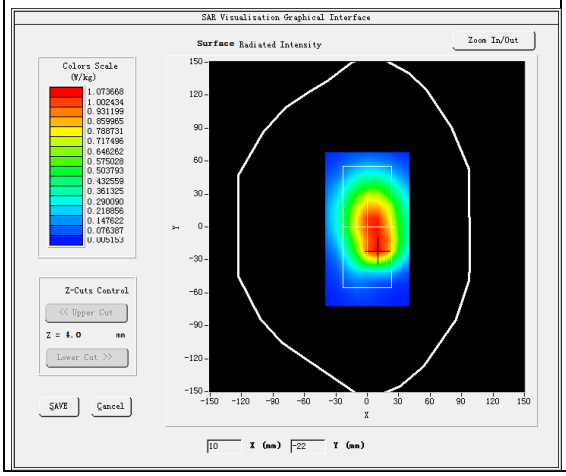
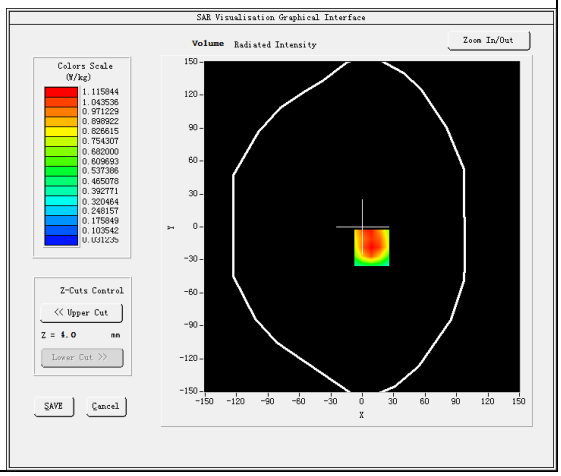
Communication System: GPRS-2 Slot; Communication System Band: GSM 850; Duty Cycle: 1:4.2; Conv.F=1.42;
Frequency: 848.8 MHz; Medium parameters used: f = 835 MHz; σ= 0.95 mho/m; εr = 41.49; ρ= 1000 kg/m³ ;
Phantom section: Flat Section
Ambient temperature (℃): 20.8, Liquid temperature (℃): 20.6

SATIMO Configuration:

- Probe: SSE2; Calibrated: Apr. 13, 2022; Serial No.: SN 13/22 EPGO368
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_35

Configuration/GPRS 850 High-Body-Back/Area Scan: Measurement grid: dx=10mm, dy=10mm
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: 4.0)

SURFACE SAR	VOLUME SAR
	

Maximum location: X=9.00, Y=-19.00
SAR Peak: 1.67 W/kg

SAR 10g (W/Kg)	0.699795
SAR 1g (W/Kg)	1.098476

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00

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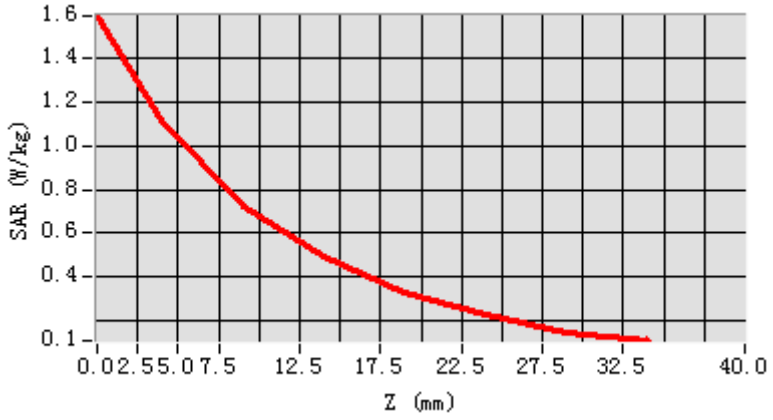
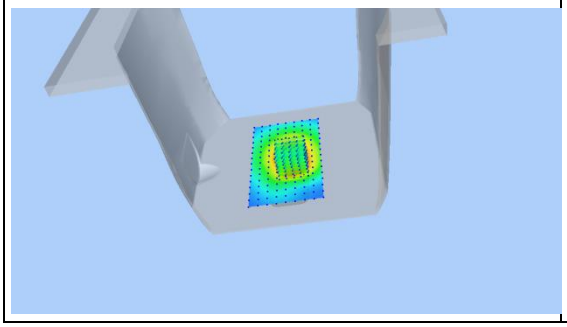
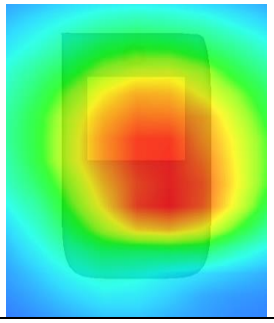
SAR (W/Kg)	1.5901	1.1158	0.7262	0.4918	0.3318	0.2314	0.1508



3D screen shot	Hot spot position
	

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Test Laboratory: AGC Lab **Date: Oct. 10, 2022**
PCS 1900 Mid-Touch-Right <SIM 1>
DUT: Mobile Phone; Type: NET

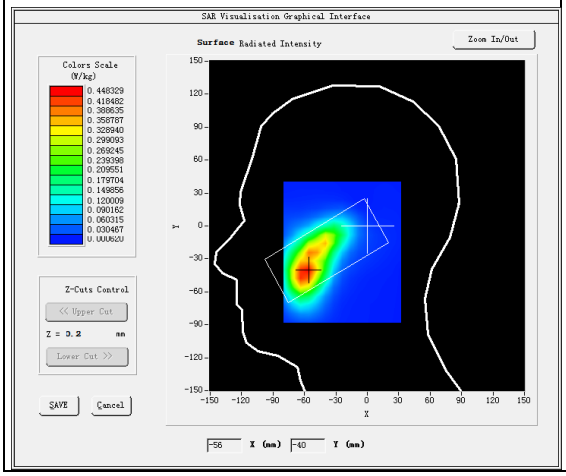
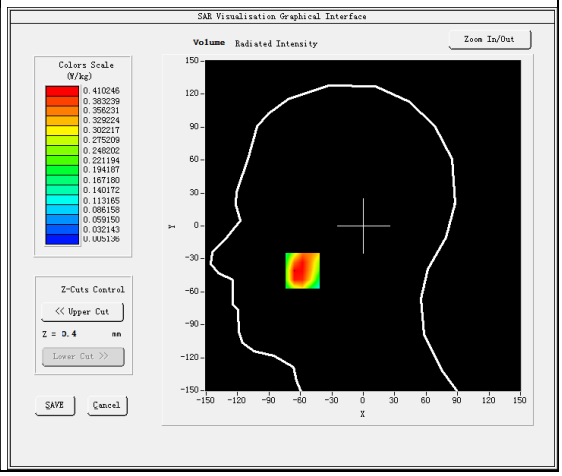
Communication System: Generic GSM; Communication System Band: PCS 1900; Duty Cycle: 1:8.3; Conv.F=1.77; Frequency: 1880 MHz; Medium parameters used: f = 1800 MHz; σ= 1.36 mho/m; εr =39.67; ρ= 1000 kg/m³ ;
Phantom section: Right Section
Ambient temperature (℃): 22.7, Liquid temperature (℃): 22.3

SATIMO Configuration:

- Probe: SSE2; Calibrated: Apr. 13, 2022; Serial No.: SN 13/22 EPGO368
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_35

Configuration/PCS1900 Mid-Touch-Right/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/PCS1900 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	PCS 1900
Channels	Middle
Signal	TDMA (Crest factor: 8.0)

SURFACE SAR	VOLUME SAR
	

Maximum location: X=-58.00, Y=-41.00
SAR Peak: 0.71 W/kg

SAR 10g (W/Kg)	0.221057
SAR 1g (W/Kg)	0.416186

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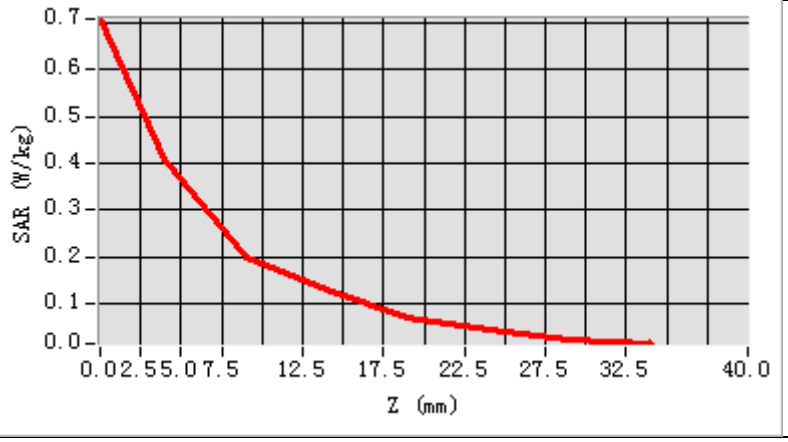
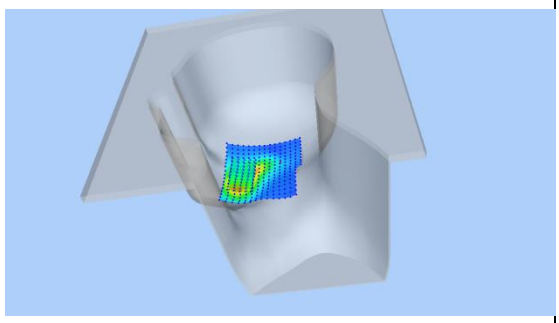
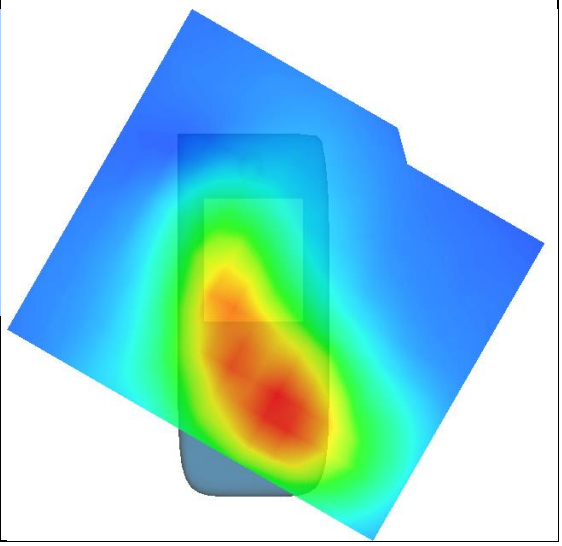
Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.7084	0.4102	0.2008	0.1289	0.0695	0.0467	0.0246



3D screen shot	Hot spot position
	

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Test Laboratory: AGC Lab **Date: Oct. 10, 2022**
PCS 1900 High-Body-Back (MS)<SIM 1>
DUT: Mobile Phone; Type: NET

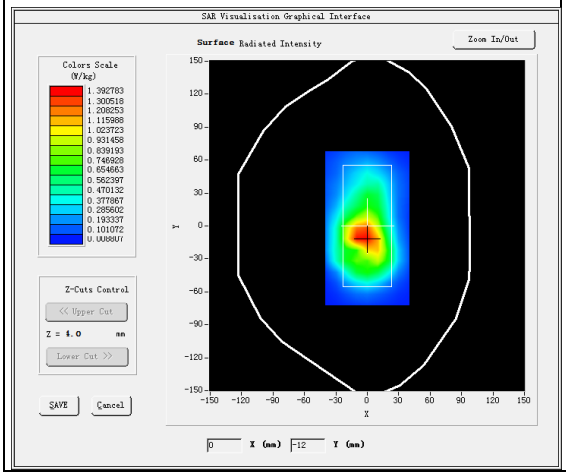
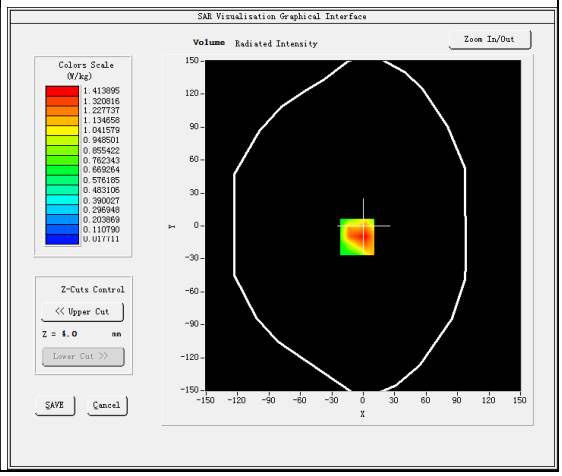
Communication System: Generic GSM; Communication System Band: PCS 1900; Duty Cycle: 1:8.3; Conv.F=1.77;
Frequency: 1909.8 MHz; Medium parameters used: f = 1800 MHz; σ= 1.38 mho/m; εr =39.23; ρ= 1000 kg/m³ ;
Phantom section: Flat Section
Ambient temperature (℃): 22.7, Liquid temperature (℃): 22.3

SATIMO Configuration:

- Probe: SSE2; Calibrated: Apr. 13, 2022; Serial No.: SN 13/22 EPGO368
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_35

Configuration/PCS1900 High-Body-Back/Area Scan: Measurement grid: dx=10mm, dy=10mm
Configuration/PCS1900 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	PCS 1900
Channels	High
Signal	TDMA (Crest factor: 8.0)

SURFACE SAR	VOLUME SAR
	

Maximum location: X=-6.00, Y=-10.00
SAR Peak: 2.10 W/kg

SAR 10g (W/Kg)	0.771829
SAR 1g (W/Kg)	1.318930

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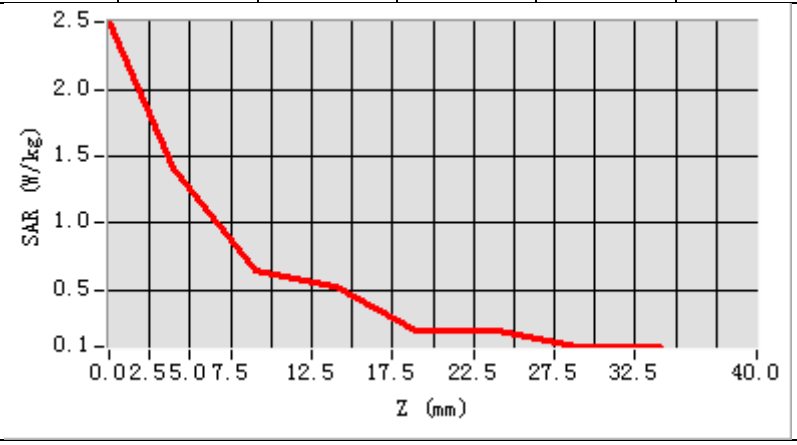
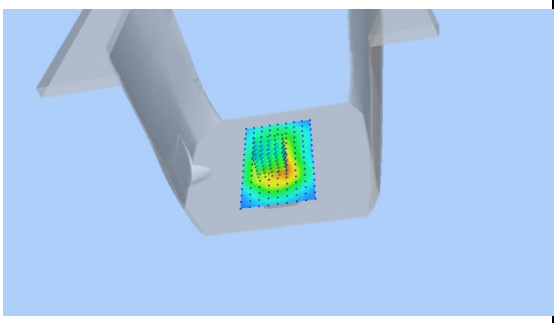
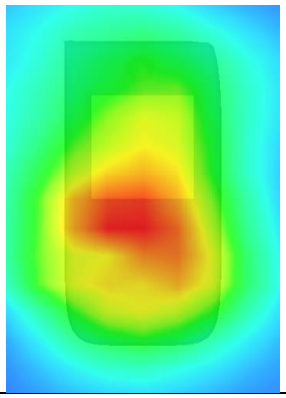
Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	2.5017	1.4139	0.6483	0.5259	0.2033	0.1991	0.0791



3D screen shot	Hot spot position
	

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Test Laboratory: AGC Lab **Date: Oct. 10, 2022**
WCDMA Band II Mid-Touch-Right (RMC)
DUT: Mobile Phone; Type: NET

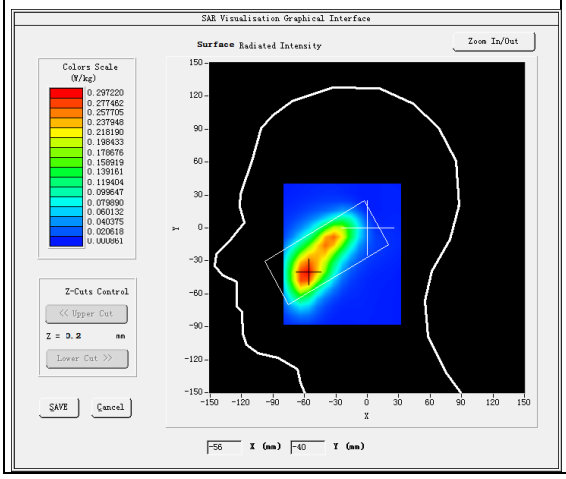
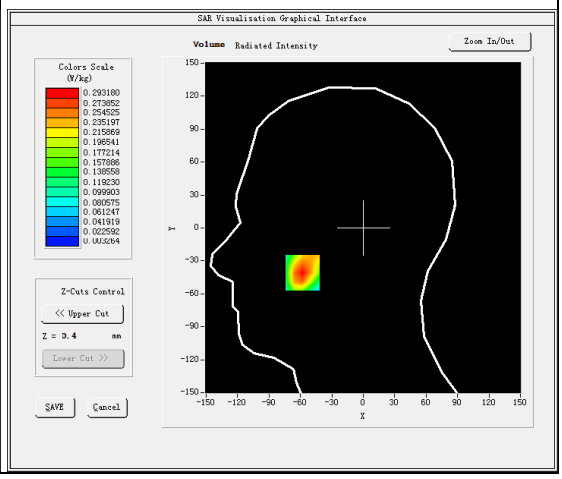
Communication System: UMTS; Communication System Band: Band II UTRA/FDD ;Duty Cycle:1:1; Conv.F=1.77;
Frequency: 1880 MHz; Medium parameters used: f = 1800 MHz; σ= 1.36 mho/m; εr =39.67; ρ= 1000 kg/m³ ;
Phantom section: Right Section
Ambient temperature (℃): 22.7, Liquid temperature (℃): 22.3

SATIMO Configuration:

- Probe: SSE2; Calibrated: Apr. 13, 2022; Serial No.: SN 13/22 EPGO368
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_35

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)

SURFACE SAR	VOLUME SAR
	

Maximum location: X=-58.00, Y=-41.00
SAR Peak: 0.46 W/kg

SAR 10g (W/Kg)	0.150534
SAR 1g (W/Kg)	0.279697

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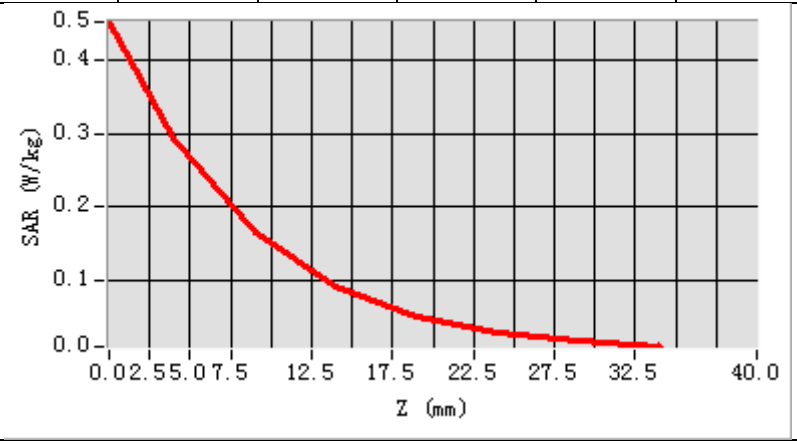
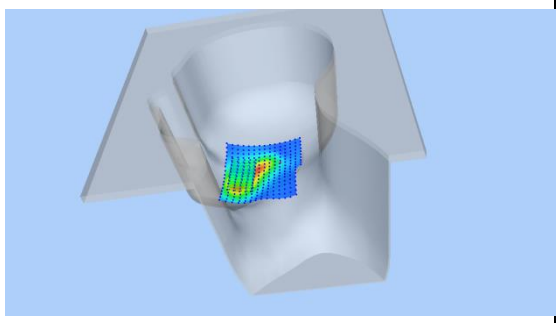
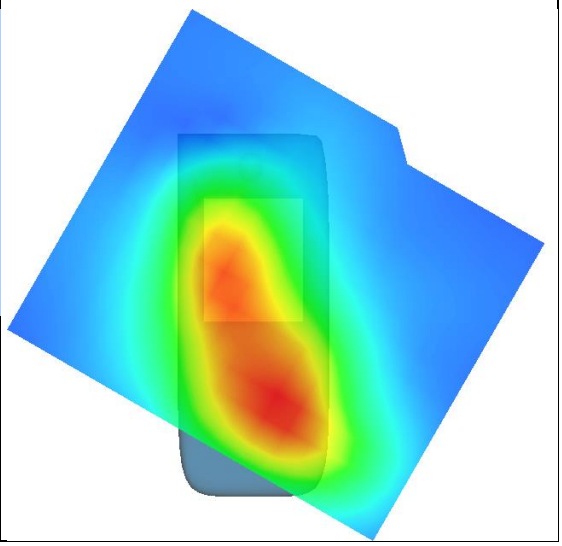
Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.4531	0.2932	0.1647	0.0924	0.0512	0.0286	0.0161



3D screen shot	Hot spot position
	

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Test Laboratory: AGC Lab **Date: Oct. 10, 2022**
WCDMA Band II Mid-Body-Towards Grounds (RMC 12.2kbps)
DUT: Mobile Phone; Type: NET

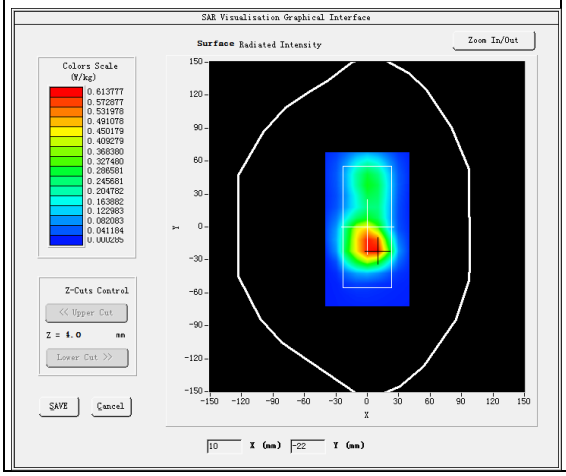
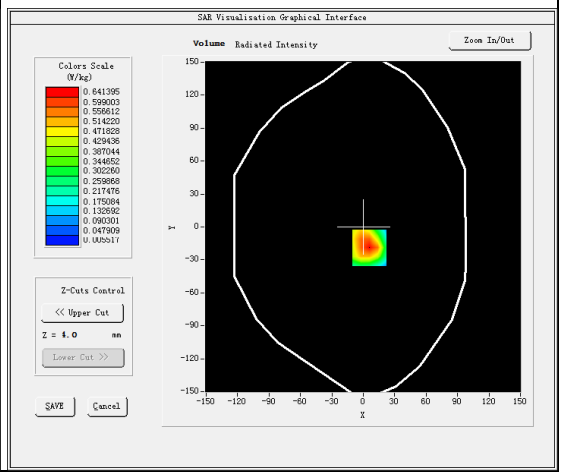
Communication System: UMTS; Communication System Band: Band II UTRA/FDD ;Duty Cycle:1:1; Conv.F=1.77;
Frequency: 1880 MHz; Medium parameters used: f = 1800 MHz; σ=1.36 mho/m; εr =39.67; ρ= 1000 kg/m³ ;
Phantom section: Flat Section
Ambient temperature (℃): 22.7, Liquid temperature (℃): 22.3

SATIMO Configuration:

- Probe: SSE2; Calibrated: Apr. 13, 2022; Serial No.: SN 13/22 EPGO368
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_35

Configuration/ WCDMA band II Mid-Body-Back/Area Scan: Measurement grid: dx=10mm, dy=10mm
Configuration/ WCDMA band II Mid-Body-Back/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5m;

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)

SURFACE SAR	**VOLUME SAR**
	

Maximum location: X=6.00, Y=-19.00
SAR Peak: 1.09 W/kg

SAR 10g (W/Kg)	0.306530
SAR 1g (W/Kg)	0.611674

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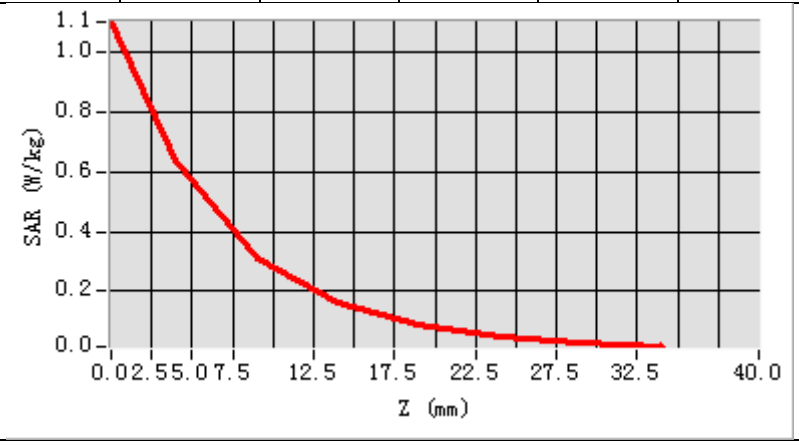
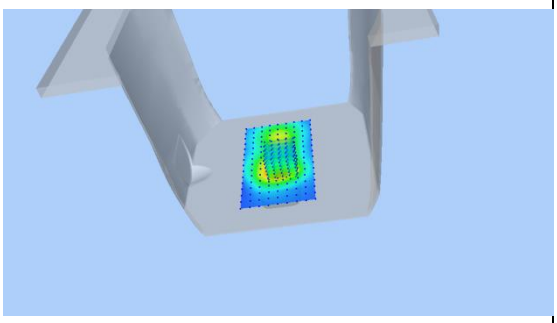
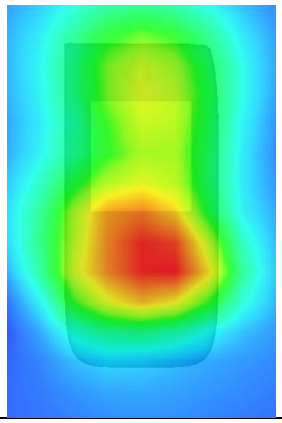
Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.1018	0.6414	0.3110	0.1616	0.0874	0.0472	0.0258



3D screen shot	Hot spot position
	

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Test Laboratory: AGC Lab **Date: Oct. 08, 2022**

WCDMA Band Ⅴ Low-Touch-Right (RMC)

DUT: Mobile Phone; Type: NET

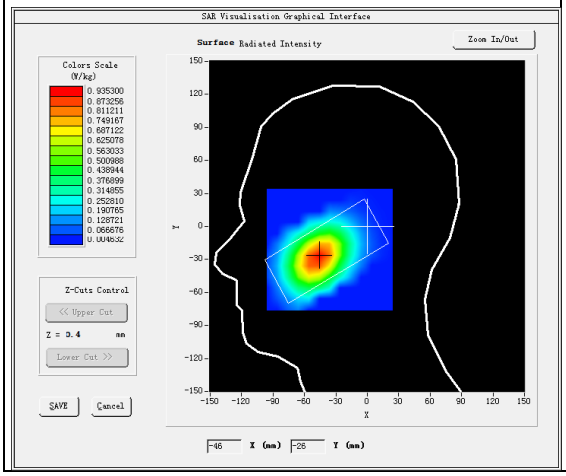
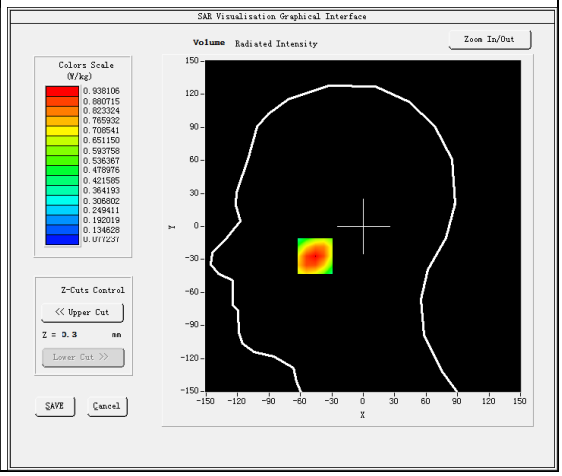
Communication System: UMTS; Communication System Band: BAND V UTRA/FDD ; Duty Cycle:1: 1; Conv.F=1.42;
Frequency: 826.4 MHz; Medium parameters used: f = 835MHz; σ=0.91 mho/m; εr =42.35; ρ= 1000 kg/m³ ;
Phantom section: Right Section
Ambient temperature (℃): 20.8, Liquid temperature (℃): 20.6

SATIMO Configuration:

- Probe: SSE2; Calibrated: Apr. 13, 2022; Serial No.: SN 13/22 EPGO368
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_35

Configuration/ WCDMA Band V Low-Touch-Right/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/ WCDMA Band V Low-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 V
Channels	Low
Signal	CDMA (Crest factor: 1.0)

SURFACE SAR	**VOLUME SAR**
	

Maximum location: X=-46.00, Y=-27.00
SAR Peak: 1.24 W/kg

SAR 10g (W/Kg)	0.596922
SAR 1g (W/Kg)	0.901270

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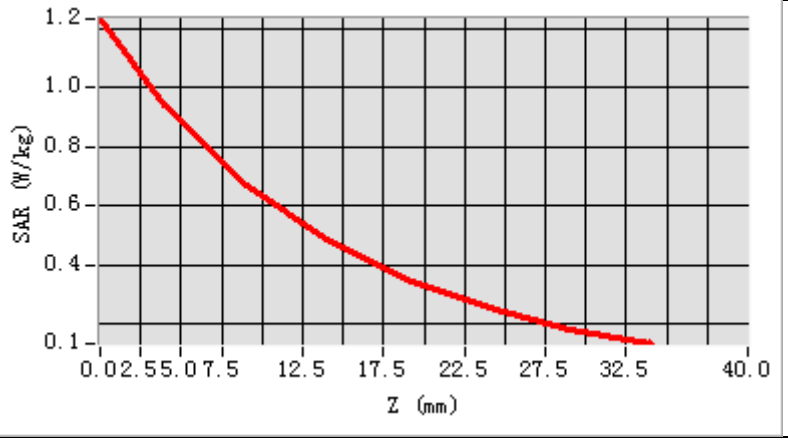
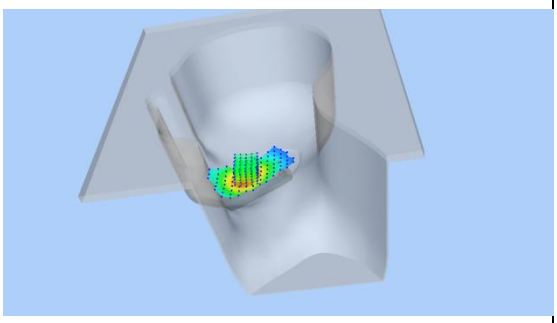
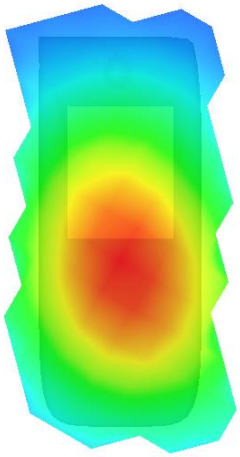
Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.2332	0.9381	0.6680	0.4835	0.3472	0.2531	0.1822



3D screen shot	Hot spot position
	

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Test Laboratory: AGC Lab **Date: Oct. 08, 2022**

WCDMA Band Ⅴ High-Body-Towards Grounds (RMC)

DUT: Mobile Phone; Type: NET

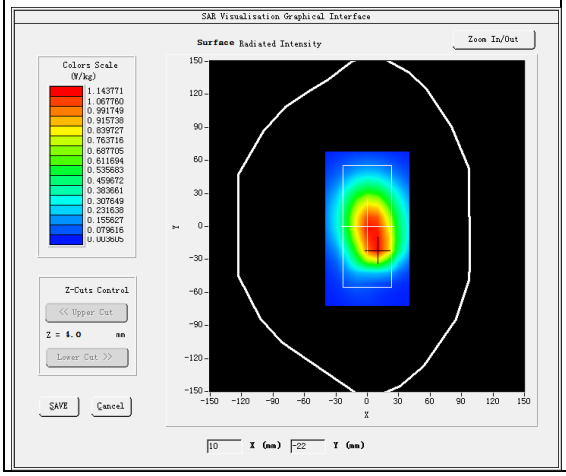
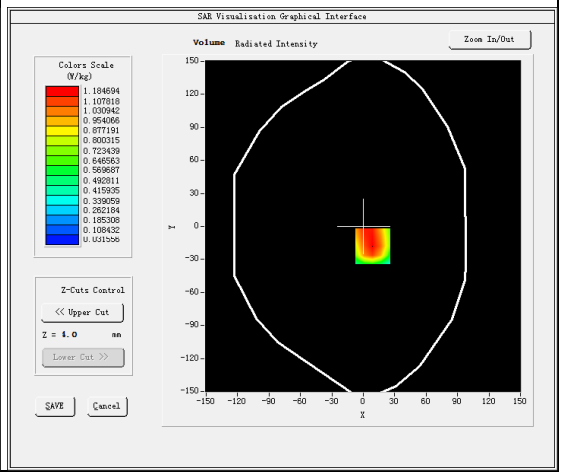
Communication System: UMTS; Communication System Band: BAND V UTRA/FDD; Duty Cycle:1: 1; Conv.F=1.42;
Frequency: 846.6 MHz; Medium parameters used: f = 835MHz; σ= 0.95 mho/m; εr = 41.49; ρ= 1000 kg/m³ ;
Phantom section: Flat Section
Ambient temperature (℃): 20.8, Liquid temperature (℃): 20.6

SATIMO Configuration:

- Probe: SSE2; Calibrated: Apr. 13, 2022; Serial No.: SN 13/22 EPGO368
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_35

Configuration/ WCDMA Band V High-Body-Back/Area Scan: Measurement grid: dx=10mm, dy=10mm
Configuration/ WCDMA Band V 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	WCDMA Band V
Channels	High
Signal	CDMA (Crest factor: 1.0)

SURFACE SAR	VOLUME SAR
	

Maximum location: X=9.00, Y=-18.00
SAR Peak: 1.76 W/kg

SAR 10g (W/Kg)	0.732743
SAR 1g (W/Kg)	1.164951

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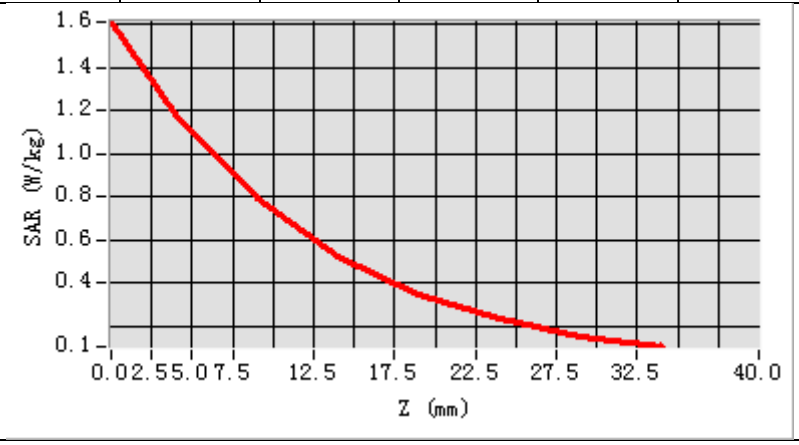
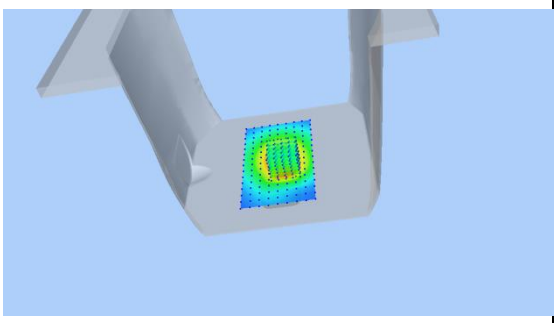
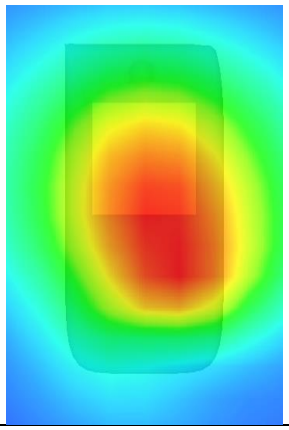
Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.6136	1.1847	0.7946	0.5277	0.3499	0.2326	0.1559



3D screen shot	Hot spot position
	

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Test Laboratory: AGC Lab **Date: Oct. 10, 2022**
LTE Band 2 Mid-Touch-Right (1 RB#0)
DUT: Mobile Phone; Type: NET

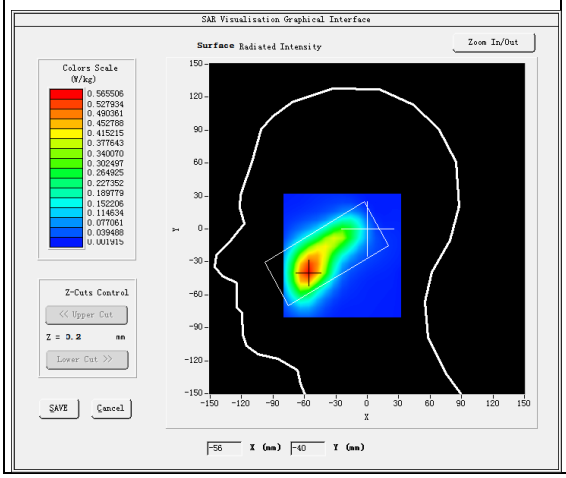
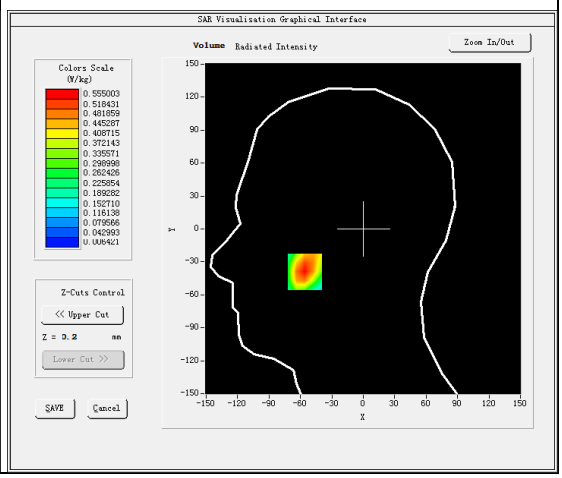
Communication System: LTE; Communication System Band: LTE Band 2; Duty Cycle:1:1; Conv.F=1.77; Frequency:1880MHz; Medium parameters used: f =1900 MHz; σ=1.36 mho/m; εr =39.67; ρ= 1000 kg/m³ ;
Phantom section: Right Section
Ambient temperature (℃): 22.7, Liquid temperature (℃): 22.3

SATIMO Configuration:

- Probe: SSE2; Calibrated: Apr. 13, 2022; Serial No.: SN 13/22 EPGO368
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_35

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

Area Scan	dx=8mm dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Right head
Device Position	Cheek
Band	LTE Band 2
Channels	Middle
Signal	OFDM (Crest factor: 1.0)

SURFACE SAR	VOLUME SAR
	

Maximum location: X=-56.00, Y=-39.00
SAR Peak: 0.86 W/kg

SAR 10g (W/Kg)	0.290908
SAR 1g (W/Kg)	0.530669

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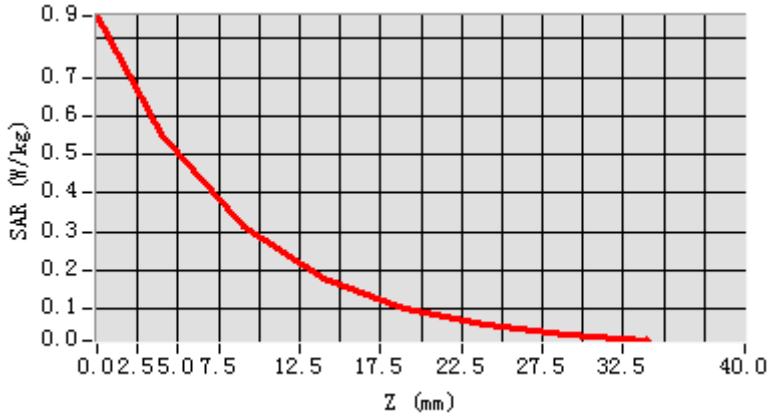
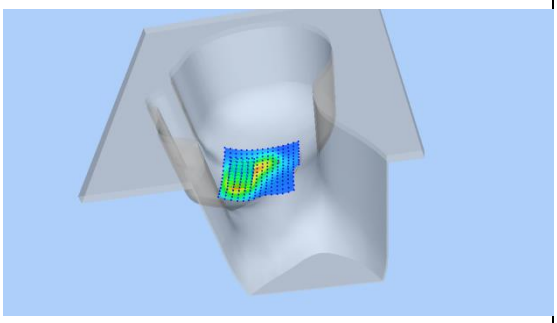
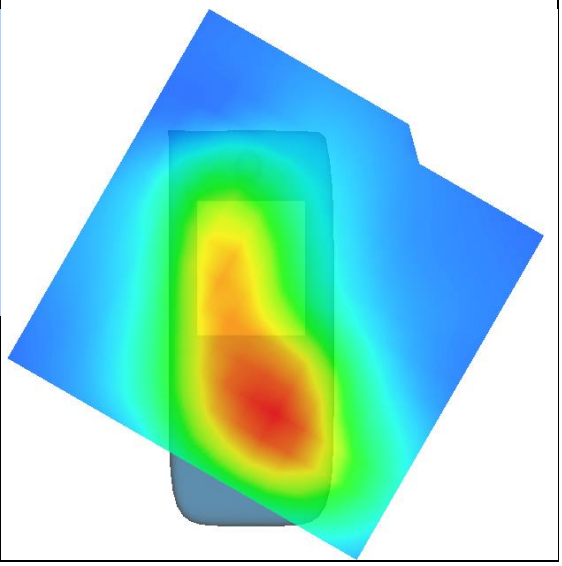
Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.8586	0.5550	0.3127	0.1789	0.1003	0.0585	0.0329



3D screen shot	Hot spot position
	

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Test Laboratory: AGC Lab **Date: Oct. 10, 2022**
LTE Band 2 Mid-Body-Back (1 RB#0)
DUT: Mobile Phone; Type: NET

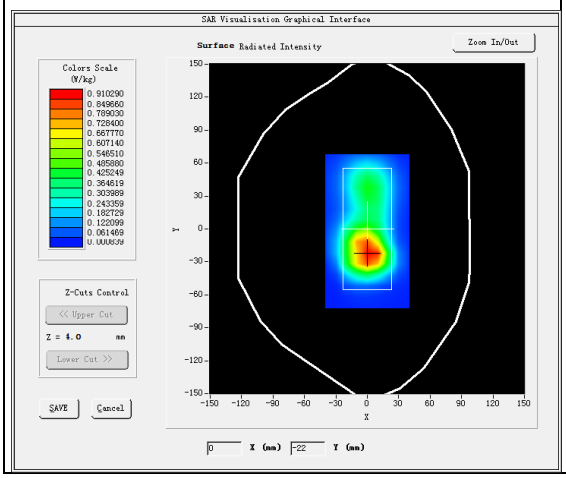
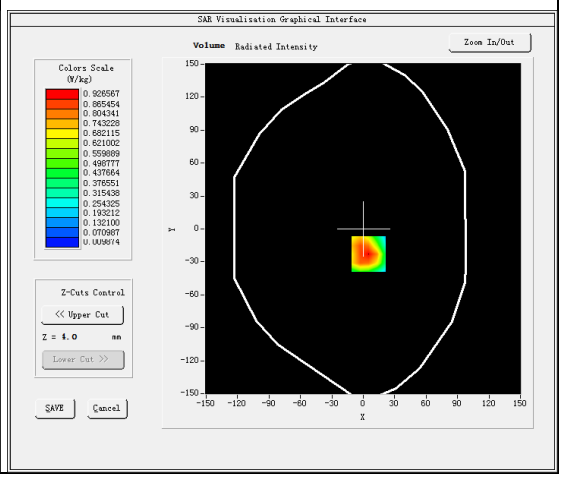
Communication System: LTE; Communication System Band: LTE Band 2; Duty Cycle:1:1; Conv.F=1.77; Frequency:1880MHz; Medium parameters used: f = 1900 MHz; σ= 1.36 mho/m; εr =39.67; ρ= 1000 kg/m³ ; Phantom section: Flat Section
Ambient temperature (℃): 22.7, Liquid temperature (℃): 22.3

SATIMO Configuration:

- Probe: SSE2; Calibrated: Apr. 13, 2022; Serial No.: SN 13/22 EPGO368
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_35

Configuration/ LTE Band 2 Mid-Body-Back/Area Scan: Measurement grid: dx=10mm, dy=10mm
Configuration/ LTE Band 2 Mid-Body-Back/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5m;

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

SURFACE SAR	VOLUME SAR
	

Maximum location: X=5.00, Y=-23.00
SAR Peak: 1.55 W/kg

SAR 10g (W/Kg)	0.462345
SAR 1g (W/Kg)	0.891129

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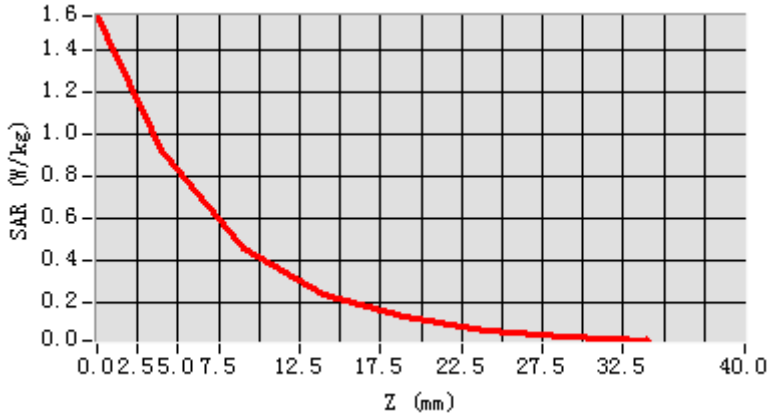
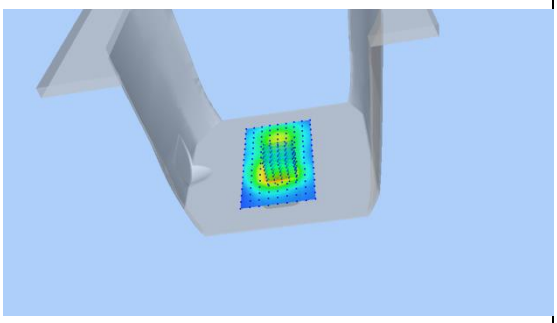
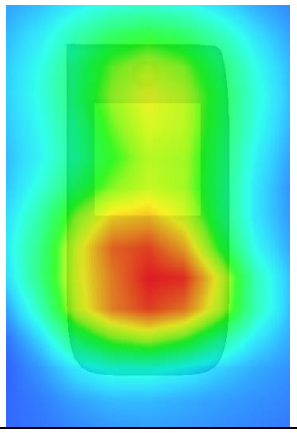
Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.5647	0.9266	0.4618	0.2457	0.1341	0.0734	0.0406



3D screen shot	Hot spot position
	

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Test Laboratory: AGC Lab **Date: Oct. 10, 2022**
LTE Band 2 High-Body-Back (1 RB#0)
DUT: Mobile Phone; Type: NET

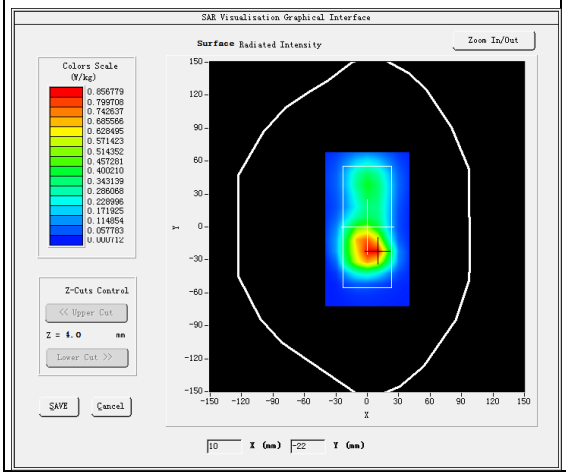
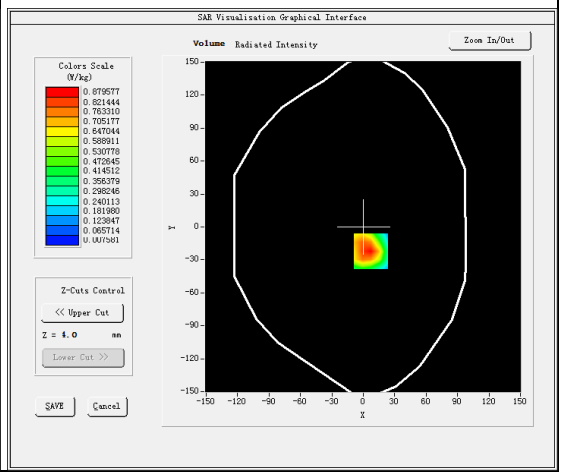
Communication System: LTE; Communication System Band: LTE Band 2; Duty Cycle:1:1; Conv.F=1.77; Frequency:1905MHz; Medium parameters used: f = 1900 MHz; σ= 1.37 mho/m; εr =39.41; ρ= 1000 kg/m³ ; Phantom section: Flat Section
Ambient temperature (℃): 22.7, Liquid temperature (℃): 22.3

SATIMO Configuration:

- Probe: SSE2; Calibrated: Apr. 13, 2022; Serial No.: SN 13/22 EPGO368
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_35

Configuration/ LTE Band 2 High-Body-Back/Area Scan: Measurement grid: dx=10mm, dy=10mm
Configuration/ LTE Band 2 High-Body-Back/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5m;

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

SURFACE SAR	VOLUME SAR
	

Maximum location: X=7.00, Y=-22.00
SAR Peak: 1.48 W/kg

SAR 10g (W/Kg)	0.436808
SAR 1g (W/Kg)	0.848751

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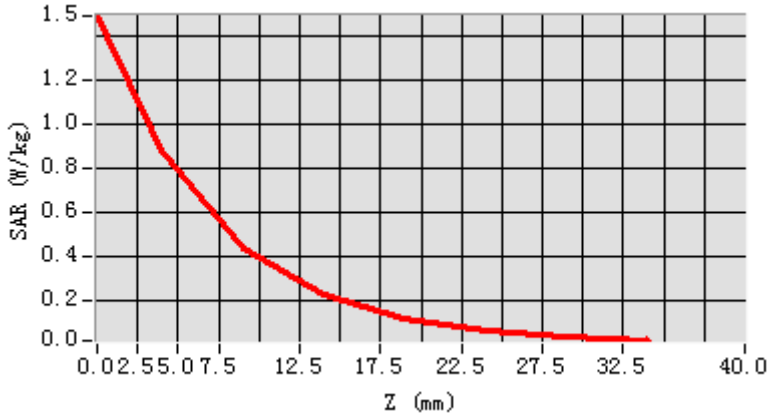
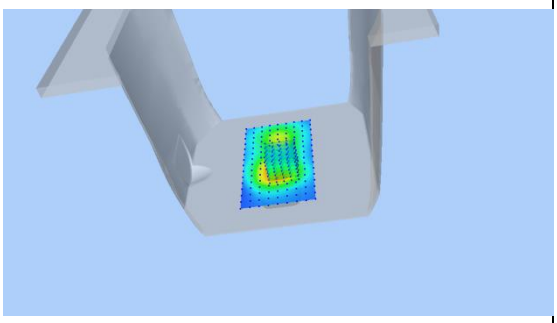
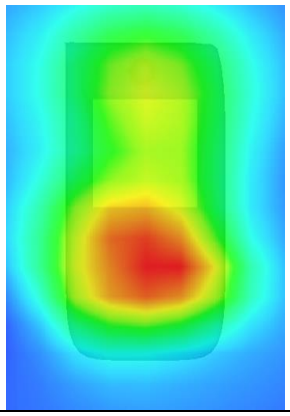
Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.4909	0.8796	0.4349	0.2289	0.1235	0.0670	0.0367



3D screen shot	Hot spot position
	

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Test Laboratory: AGC Lab **Date: Oct. 11, 2022**
LTE Band 4 Mid-Touch-Left (1 RB#0)
DUT: Mobile Phone; Type: NET

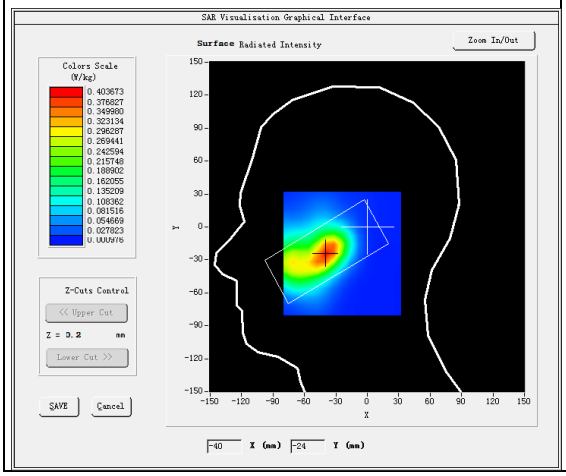
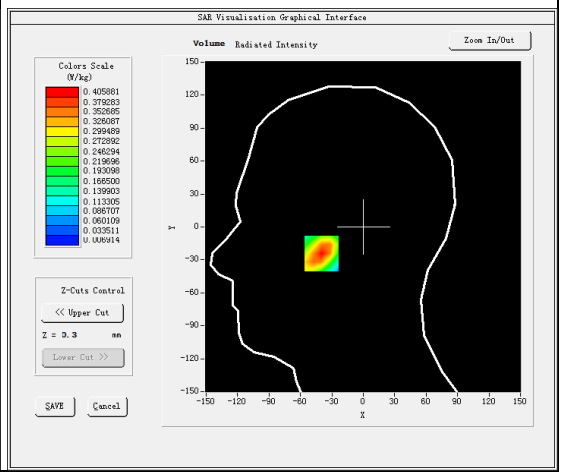
Communication System: LTE; Communication System Band: LTE Band 4; Duty Cycle:1:1; Conv.F=1.77; Frequency:1732.5 MHz; Medium parameters used: f =1750 MHz; σ= 1.39 mho/m; εr =39.89; ρ= 1000 kg/m³ ;
Phantom section: Left Section
Ambient temperature (℃): 21.8, Liquid temperature (℃): 21.5

SATIMO Configuration:

- Probe: SSE2; Calibrated: Apr. 13, 2022; Serial No.: SN 13/22 EPGO368
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_35

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

Area Scan	dx=8mm dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Left head
Device Position	Cheek
Band	LTE Band 4
Channels	Middle
Signal	OFDM (Crest factor: 1.0)

SURFACE SAR	VOLUME SAR
	

Maximum location: X=-39.00, Y=-24.00
SAR Peak: 0.56 W/kg

SAR 10g (W/Kg)	0.219229
SAR 1g (W/Kg)	0.379338

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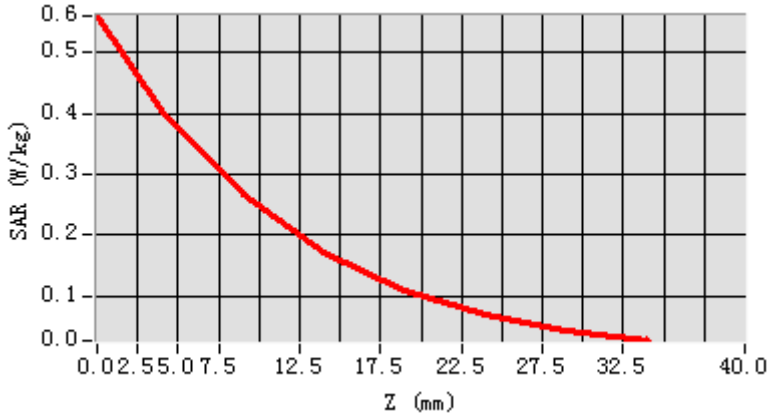
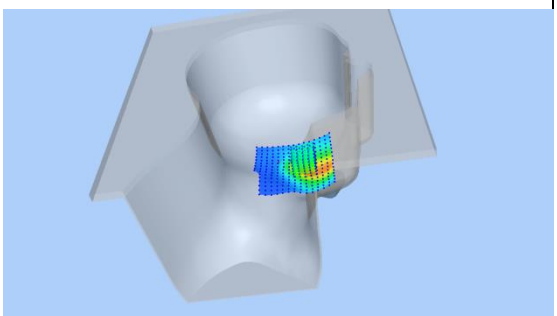
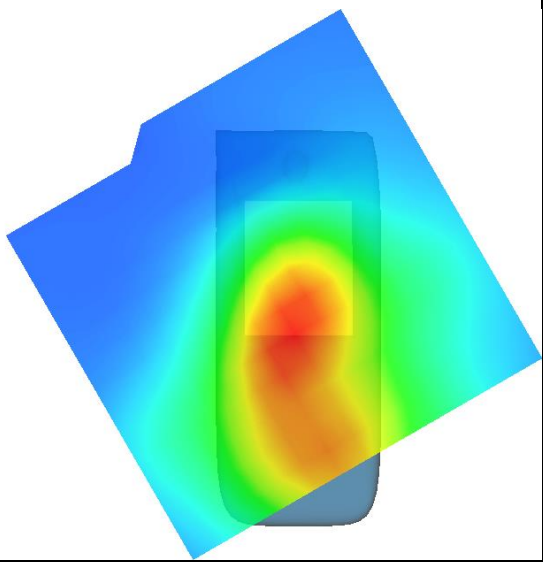
Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.5594	0.4059	0.2667	0.1730	0.1102	0.0691	0.0435



3D screen shot	Hot spot position
	

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Test Laboratory: AGC Lab **Date: Oct. 11, 2022**
LTE Band 4 High-Body-Back (1 RB#0)
DUT: Mobile Phone; Type: NET

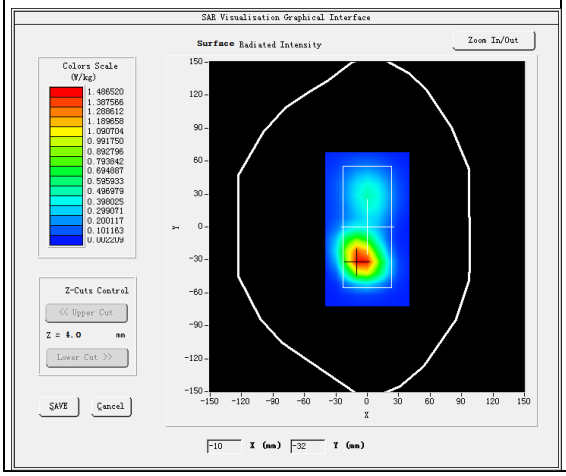
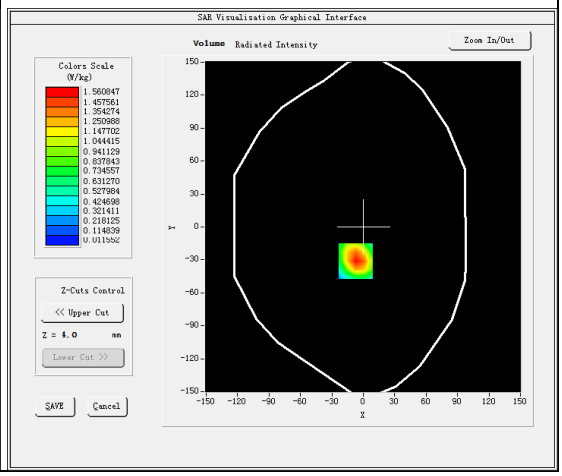
Communication System: LTE; Communication System Band: LTE Band 4; Duty Cycle:1:1; Conv.F=1.73; Frequency:1750 MHz; Medium parameters used: f = 1800 MHz; σ= 1.41 mho/m; εr =39.58; ρ= 1000 kg/m³ ;
Phantom section: Flat Section
Ambient temperature (℃): 21.8, Liquid temperature (℃): 21.5

SATIMO Configuration:

- Probe: SSE2; Calibrated: Apr. 13, 2022; Serial No.: SN 13/22 EPGO368
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_35

Configuration/ LTE Band 4 High-Body-Back/Area Scan: Measurement grid: dx=10mm, dy=10mm
Configuration/ LTE Band 4 High-Body-Back/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5m;

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

SURFACE SAR	VOLUME SAR
	

Maximum location: X=-7.00, Y=-31.00
SAR Peak: 2.62 W/kg

SAR 10g (W/Kg)	0.749880
SAR 1g (W/Kg)	1.492931

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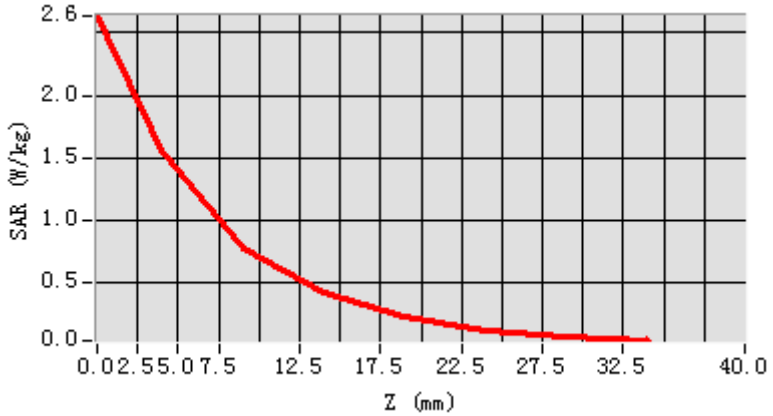
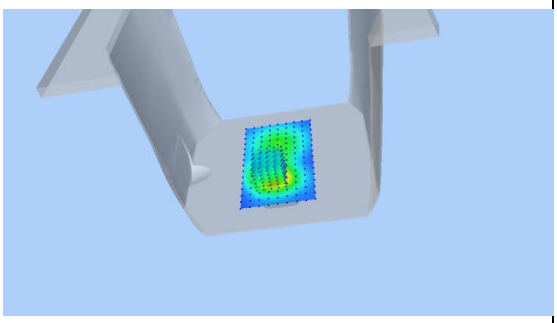
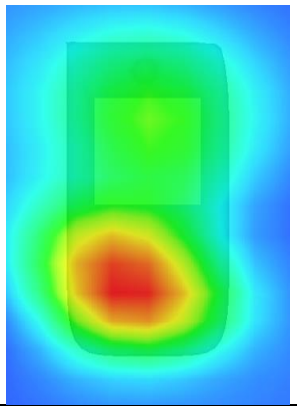
Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	2.6339	1.5608	0.7771	0.4144	0.2237	0.1229	0.0681



3D screen shot	Hot spot position
	

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Test Laboratory: AGC Lab **Date: Oct. 08, 2022**
LTE Band 5 Low-Touch-Right(1 RB#0)
DUT: Mobile Phone; Type: NET

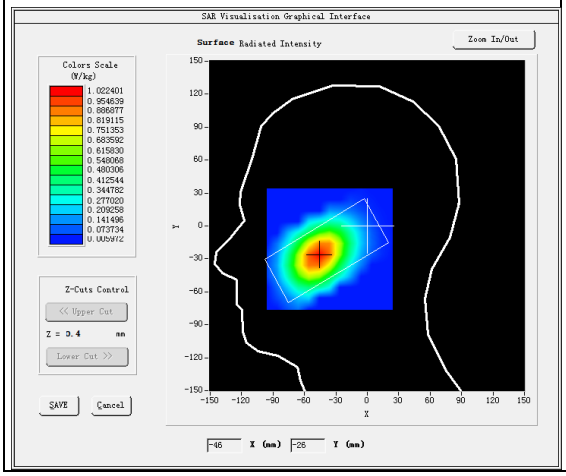
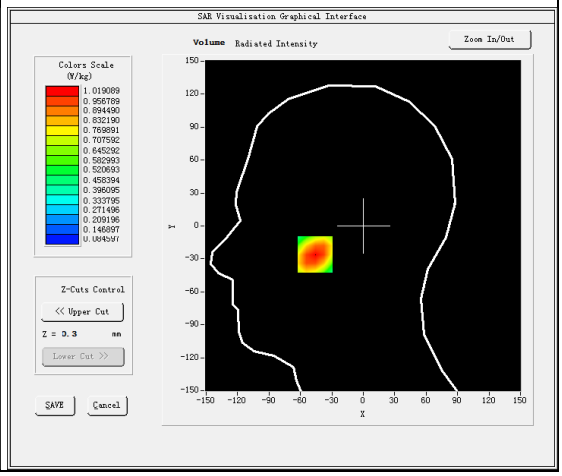
Communication System: LTE; Communication System Band: LTE Band 5; Duty Cycle:1:1; Conv.F=1.42
Frequency: 829 MHz; Medium parameters used: f = 835 MHz; σ=0.92 mho/m; εr =42.08; ρ= 1000 kg/m³ ;
Phantom section: RightSection
Ambient temperature (℃): 20.8, Liquid temperature (℃): 20.6

SATIMO Configuration:
Probe: SSE2; Calibrated: Apr. 13, 2022; Serial No.: SN 13/22 EPGO368

- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_35

Configuration/ LTE Band 5 Low- Touch-Right/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/ LTE Band 5 Low- Touch-Right/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm;

Area Scan	dx=8mm dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Right head
Device Position	Cheek
Band	LTE Band 5
Channels	Low
Signal	OFDM (Crest factor: 1.0)

SURFACE SAR	VOLUME SAR
	

Maximum location: X=-46.00, Y=-26.00
SAR Peak: 1.33 W/kg

SAR 10g (W/Kg)	0.647801
SAR 1g (W/Kg)	0.973887

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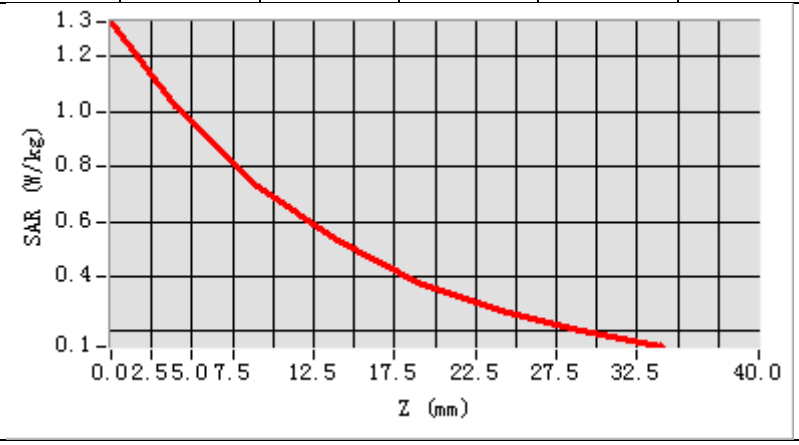
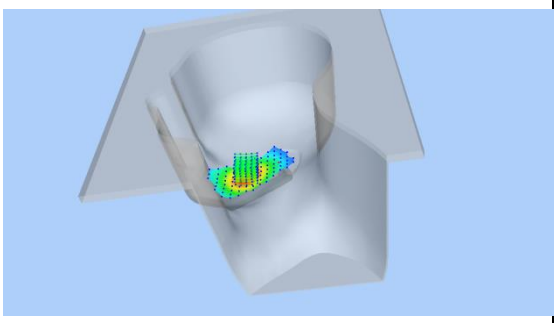
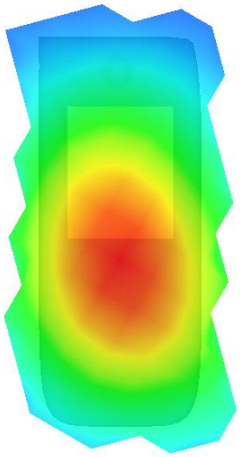
Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.3268	1.0191	0.7302	0.5295	0.3784	0.2774	0.1997



3D screen shot	Hot spot position
	

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Test Laboratory: AGC Lab **Date: Oct. 08, 2022**
LTE Band 5 High-Touch-Right(1 RB#0)
DUT: Mobile Phone; Type: NET

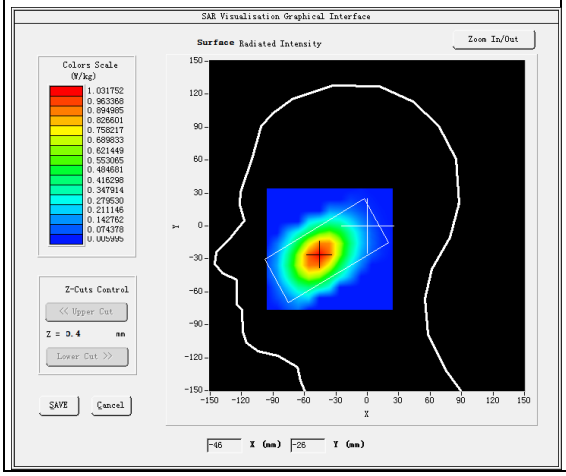
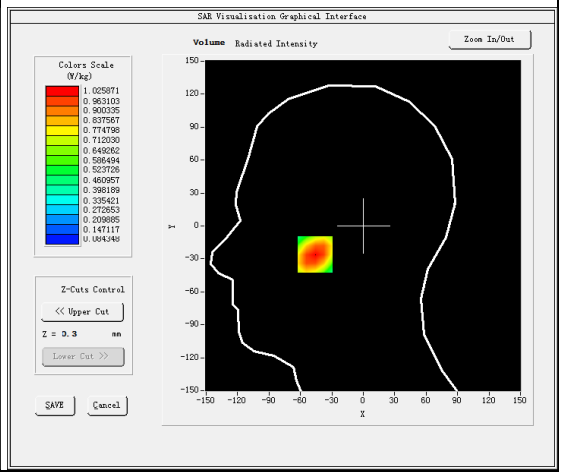
Communication System: LTE; Communication System Band: LTE Band 5; Duty Cycle:1:1; Conv.F=1.42
Frequency: 844 MHz; Medium parameters used: f = 835 MHz; σ=0.95 mho/m; εr =41.49; ρ= 1000 kg/m³ ;
Phantom section: RightSection
Ambient temperature (℃): 20.8, Liquid temperature (℃): 20.6

SATIMO Configuration:
Probe: SSE2; Calibrated: Apr. 13, 2022; Serial No.: SN 13/22 EPGO368

- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_35

Configuration/ LTE Band 5 High- Touch-Right/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/ LTE Band 5 High- Touch-Right/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm;

Area Scan	dx=8mm dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Right head
Device Position	Cheek
Band	LTE Band 5
Channels	High
Signal	OFDM (Crest factor: 1.0)

SURFACE SAR	VOLUME SAR
	

Maximum location: X=-46.00, Y=-26.00
SAR Peak: 1.34 W/kg

SAR 10g (W/Kg)	0.653031
SAR 1g (W/Kg)	0.980671

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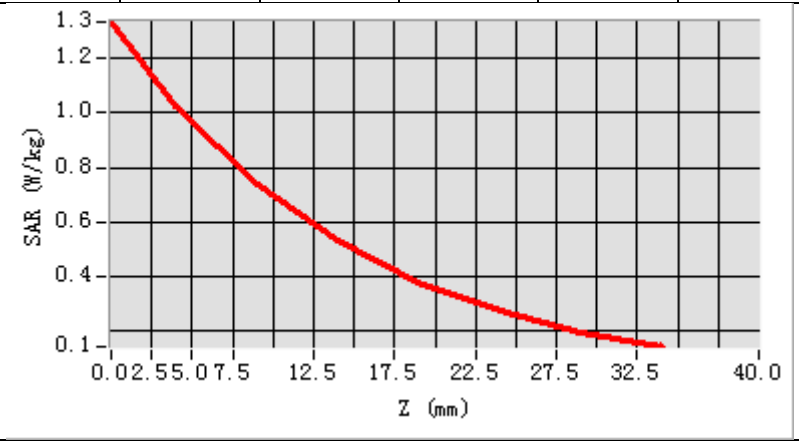
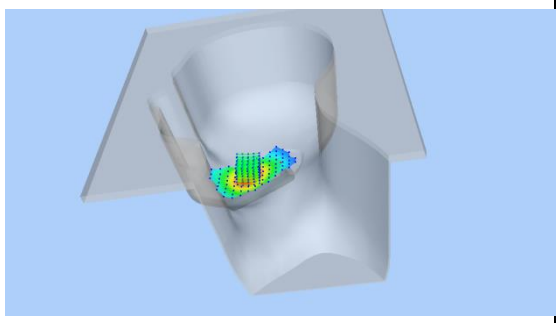
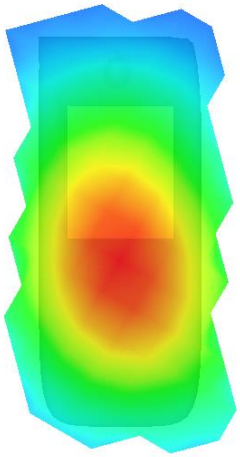
Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.3330	1.0259	0.7375	0.5303	0.3819	0.2754	0.1985



3D screen shot	Hot spot position
	

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Test Laboratory: AGC Lab **Date: Oct. 08, 2022**
LTE Band 5 Mid-Body-Back (1 RB#0)
DUT: Mobile Phone; Type: NET

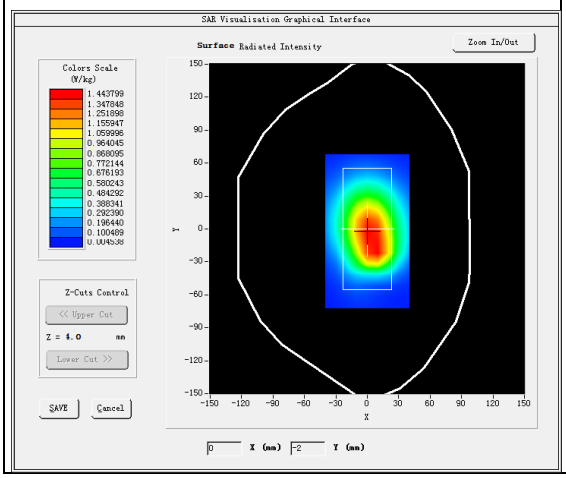
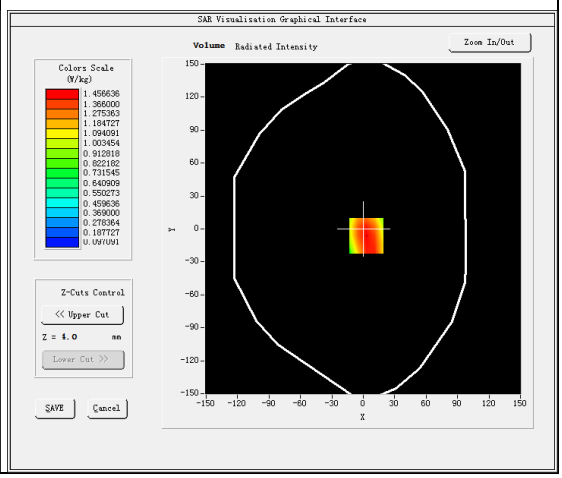
Communication System: LTE; Communication System Band: LTE Band 5; Duty Cycle:1:1; Conv.F=1.42
Frequency:836.5 MHz; Medium parameters used: f = 835 MHz; σ=0.94mho/m; εr =41.65; ρ= 1000 kg/m³ ;
Phantom section: Flat Section
Ambient temperature (℃): 20.8, Liquid temperature (℃): 20.6

SATIMO Configuration:

- Probe: SSE2; Calibrated: Apr. 13, 2022; Serial No.: SN 13/22 EPGO368
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_35

Configuration/ LTE Band 5 Mid-Body-Back/Area Scan: Measurement grid: dx=10mm, dy=10mm
Configuration/ LTE Band 5 Mid-Body-Back/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5m;

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

SURFACE SAR	VOLUME SAR
	

Maximum location: X=3.00, Y=-6.00
SAR Peak: 2.03 W/kg

SAR 10g (W/Kg)	0.944672
SAR 1g (W/Kg)	1.397834

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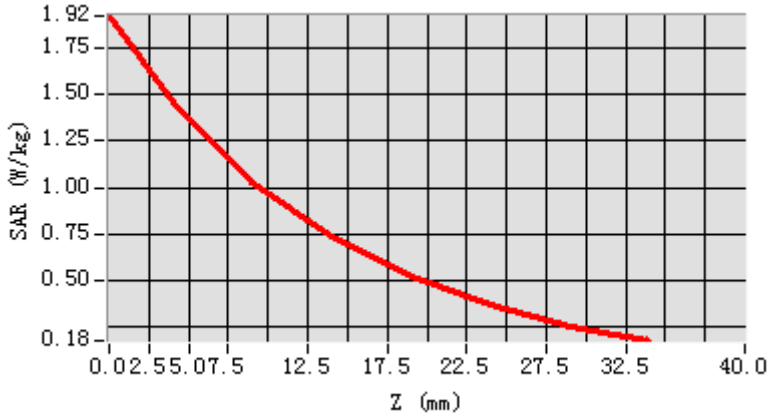
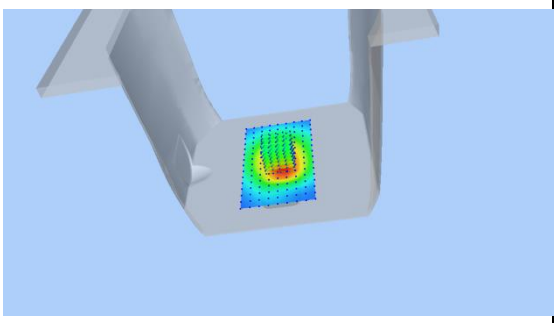
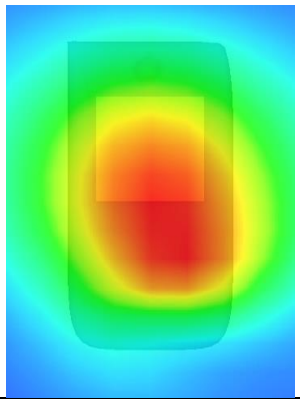
Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.9226	1.4566	1.0320	0.7403	0.5270	0.3677	0.2572



3D screen shot	Hot spot position
	

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Test Laboratory: AGC Lab **Date: Oct. 09, 2022**
LTE Band 7 Mid-Touch-Right (1RB#0)
DUT: Mobile Phone; Type: NET

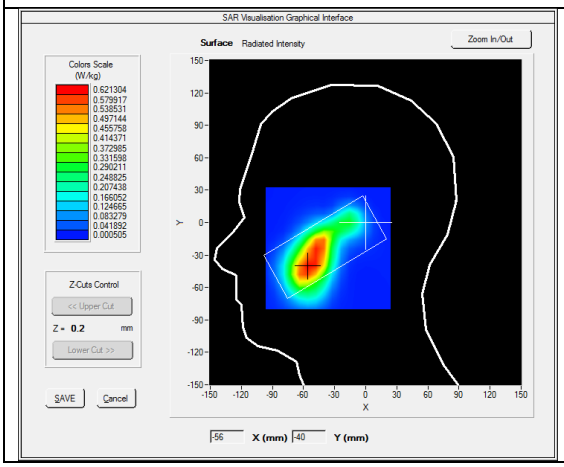
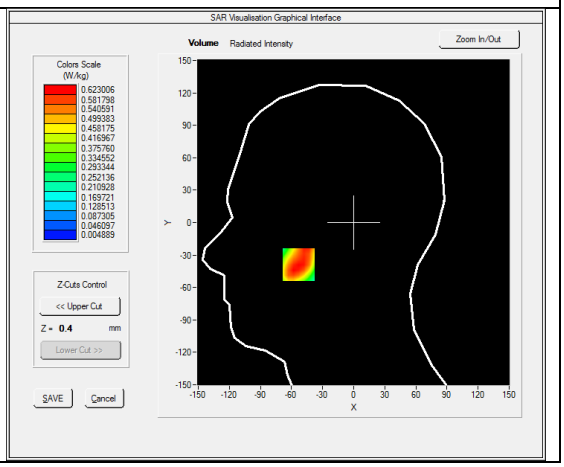
Communication System: LTE; Communication System Band: LTE Band 7; Duty Cycle:1:1; Conv.F=1.82
Frequency: 2535MHz; Medium parameters used: f =2600 MHz; σ=1.97 mho/m; εr =40.13; ρ= 1000 kg/m³ ;
Phantom section: Right Section
Ambient temperature (℃): 22.4, Liquid temperature (℃): 21.9

SATIMO Configuration:

- Probe: SSE2; Calibrated: Apr. 13, 2022; Serial No.: SN 13/22 EPGO368
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_35

Configuration/ LTE BAND 7 Mid-Touch-Right/Area Scan: Measurement grid: dx=8mm, y=8mm
Configuration/ LTE BAND 7 Mid-Touch-Right/Zoom Scan: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	7x7x7,dx=5mm dy=5mm dz=5mm
Phantom	Right head
Device Position	Cheek
Band	LTE BAND 7
Channels	Middle
Signal	OFDM (Crest factor: 1.0)

SURFACE SAR	VOLUME SAR
	

Maximum location: X=-53.00, Y=-39.00
SAR Peak: 1.02 W/kg

SAR 10g (W/Kg)	0.316227
SAR 1g (W/Kg)	0.594869

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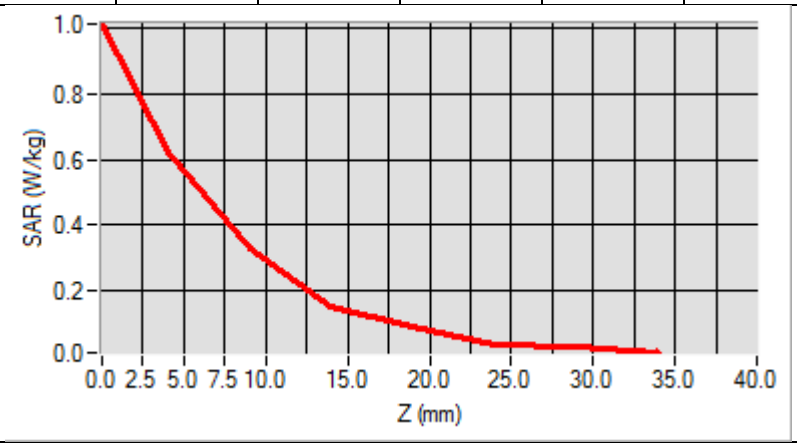
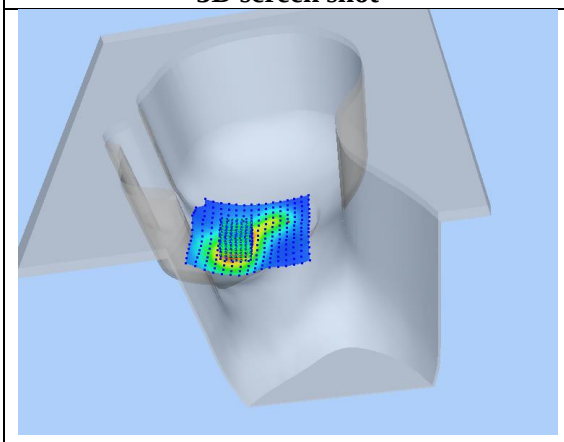
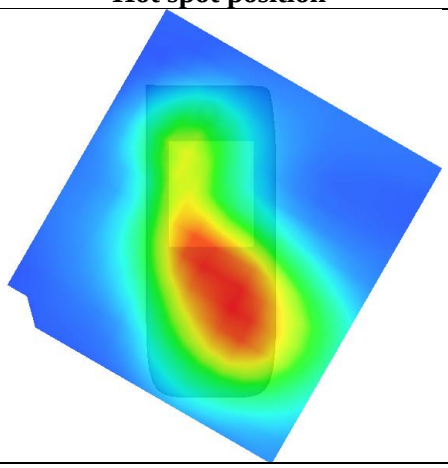
Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.0139	0.6230	0.3257	0.1519	0.0910	0.0357	0.0245



3D screen shot	Hot spot position
	

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Test Laboratory: AGC Lab **Date: Oct. 09, 2022**
LTE Band 7 Mid-Body-Back (1RB#0)
DUT: Mobile Phone; Type: NET

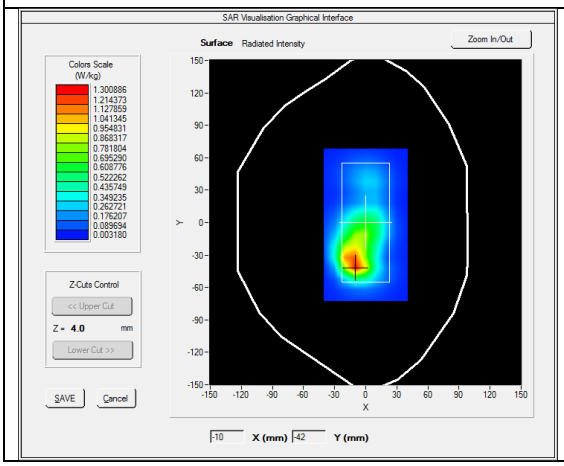
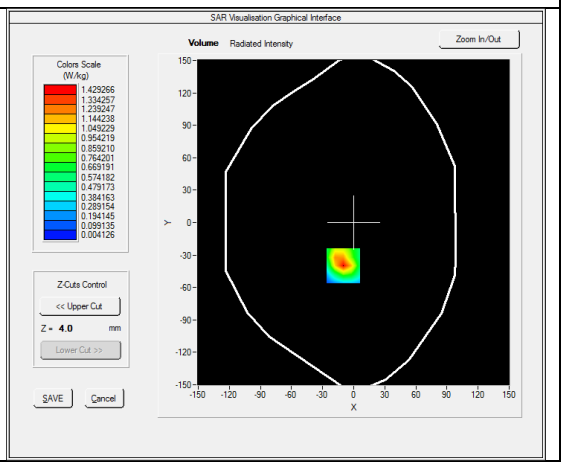
Communication System: LTE; Communication System Band: LTE Band 7; Duty Cycle:1:1; Conv.F=1.82
Frequency: 2535MHz; Medium parameters used: f =2600 MHz; σ=1.97 mho/m; εr =40.13; ρ= 1000 kg/m³ ;
Phantom section: Flat Section
Ambient temperature (℃): 22.4, Liquid temperature (℃): 21.9

SATIMO Configuration:

- Probe: SSE2; Calibrated: Apr. 13, 2022; Serial No.: SN 13/22 EPGO368
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_35

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

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

SURFACE SAR	VOLUME SAR
	

Maximum location: X=-10.00, Y=-40.00
SAR Peak: 2.51 W/kg

SAR 10g (W/Kg)	0.588600
SAR 1g (W/Kg)	1.327633

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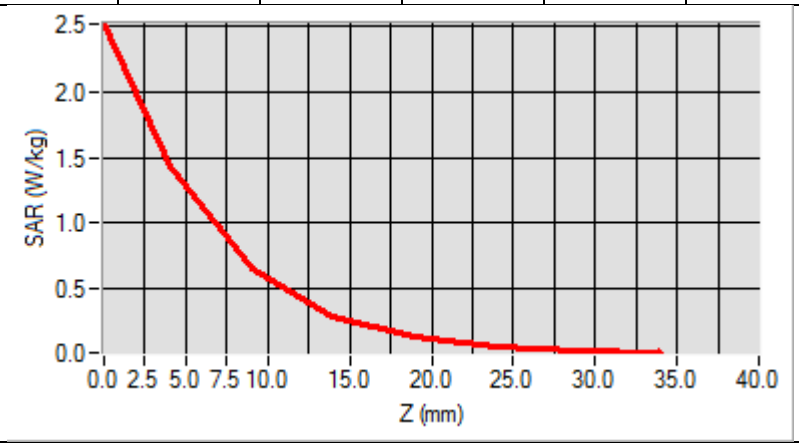
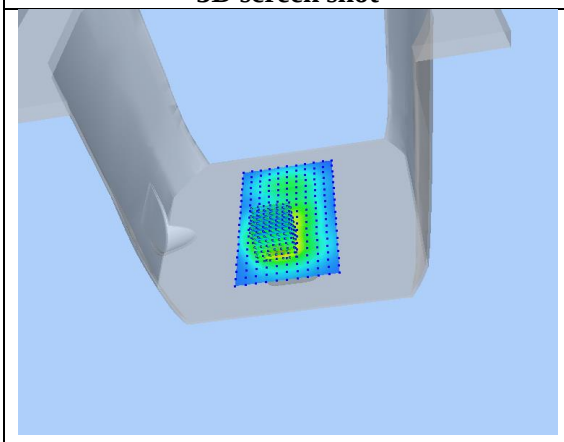
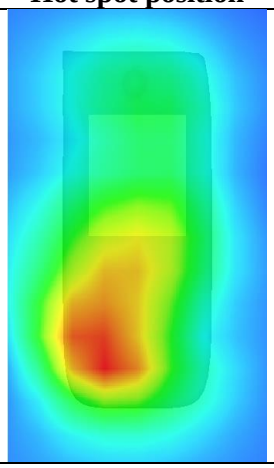
Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	2.5178	1.4293	0.6498	0.2952	0.1366	0.0618	0.0282



3D screen shot	Hot spot position
	

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Repeated SAR
Test Laboratory: AGC Lab **Date: Oct. 08, 2022**
GPRS 850 High- Body- Back (2up)
DUT: Mobile Phone; Type: NET

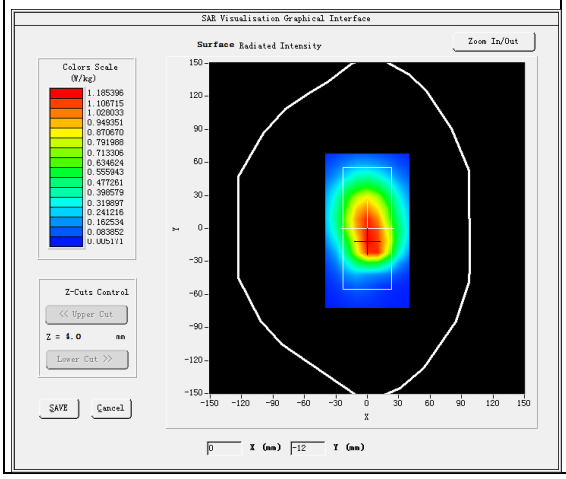
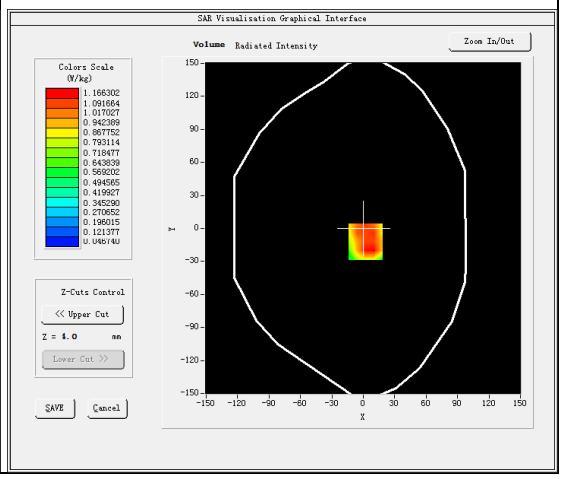
Communication System: GPRS-2 Slot; Communication System Band: GSM 850; Duty Cycle: 1:4.2; Conv.F=1.42;
Frequency: 848.8 MHz; Medium parameters used: f = 835 MHz; σ= 0.95 mho/m; εr = 41.49; ρ= 1000 kg/m³ ;
Phantom section: Flat Section
Ambient temperature (℃): 20.8, Liquid temperature (℃): 20.6

SATIMO Configuration:

- Probe: SSE2; Calibrated: Apr. 13, 2022; Serial No.: SN 13/22 EPGO368
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_35

Configuration/GPRS 850 High-Body-Back/Area Scan: Measurement grid: dx=10mm, dy=10mm
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: 4.0)

SURFACE SAR	**VOLUME SAR**
	

Maximum location: X=2.00, Y=-12.00
SAR Peak: 1.69 W/kg

SAR 10g (W/Kg)	0.744829
SAR 1g (W/Kg)	1.127203

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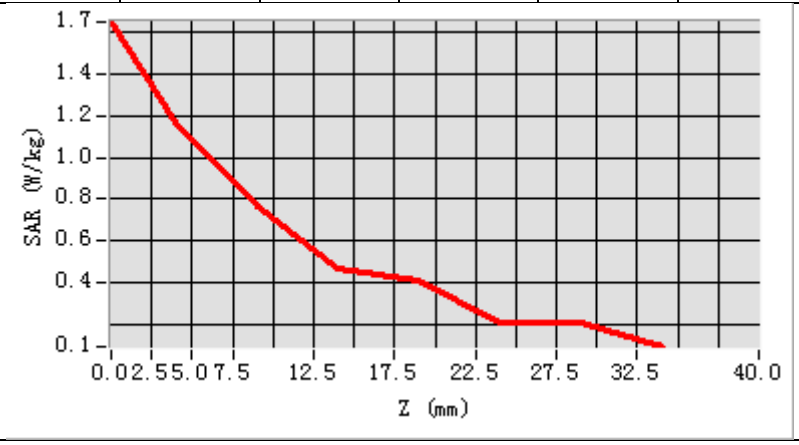
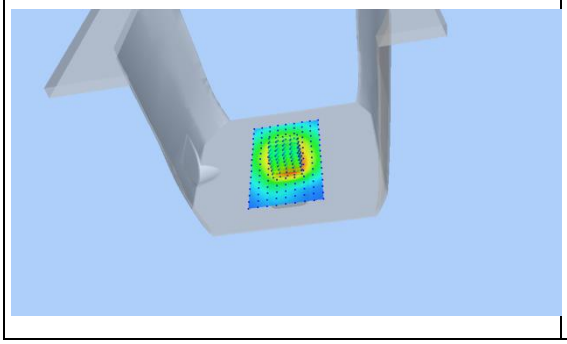
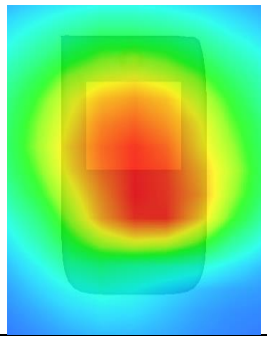
Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.6510	1.1663	0.7644	0.4679	0.4089	0.2041	0.2100



3D screen shot	Hot spot position
	

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Test Laboratory: AGC Lab **Date: Oct. 10, 2022**
PCS 1900 High-Body-Back (MS)<SIM 1>
DUT: Mobile Phone; Type: NET

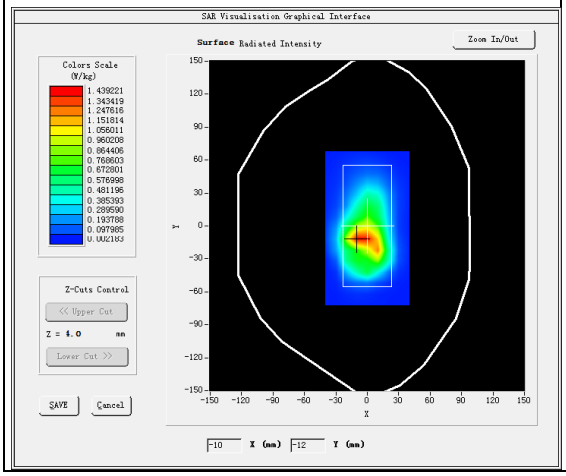
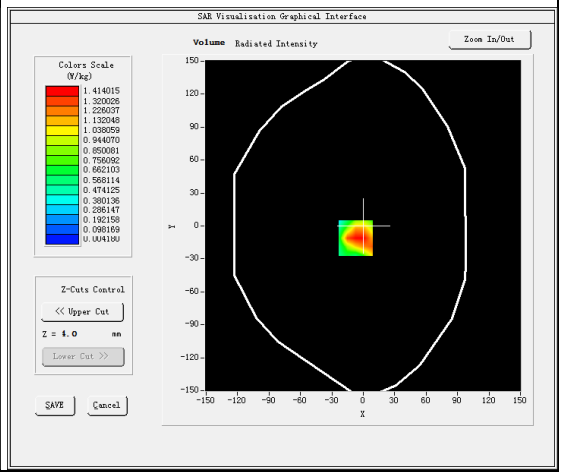
Communication System: Generic GSM; Communication System Band: PCS 1900; Duty Cycle: 1:8.3; Conv.F=1.77;
Frequency: 1909.8 MHz; Medium parameters used: f = 1800 MHz; σ= 1.38 mho/m; εr =39.23; ρ= 1000 kg/m³ ;
Phantom section: Flat Section
Ambient temperature (℃): 22.7, Liquid temperature (℃): 22.3

SATIMO Configuration:

- Probe: SSE2; Calibrated: Apr. 13, 2022; Serial No.: SN 13/22 EPGO368
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_35

Configuration/PCS1900 High-Body-Back/Area Scan: Measurement grid: dx=10mm, dy=10mm
Configuration/PCS1900 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	PCS 1900
Channels	High
Signal	TDMA (Crest factor: 8.0)

SURFACE SAR	VOLUME SAR
	

Maximum location: X=-7.00, Y=-11.00
SAR Peak: 2.44 W/kg

SAR 10g (W/Kg)	0.686306
SAR 1g (W/Kg)	1.345271

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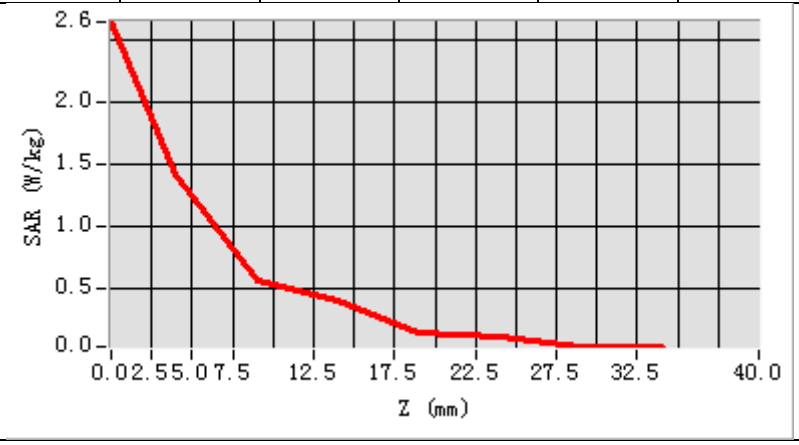
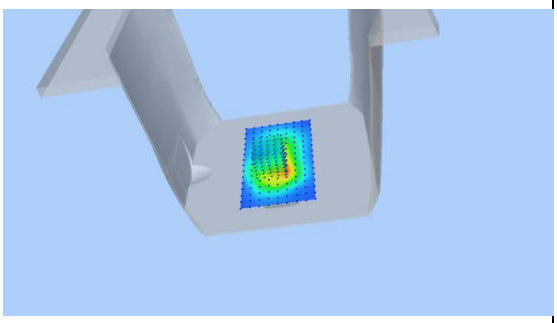
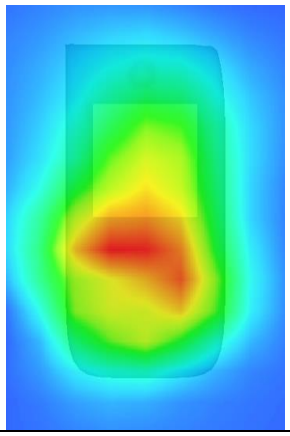
Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	2.6491	1.4140	0.5721	0.4047	0.1390	0.1120	0.0328



3D screen shot	Hot spot position
	

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Test Laboratory: AGC Lab **Date: Oct. 08, 2022**

WCDMA Band Ⅴ High-Body-Towards Grounds (RMC)

DUT: Mobile Phone; Type: NET

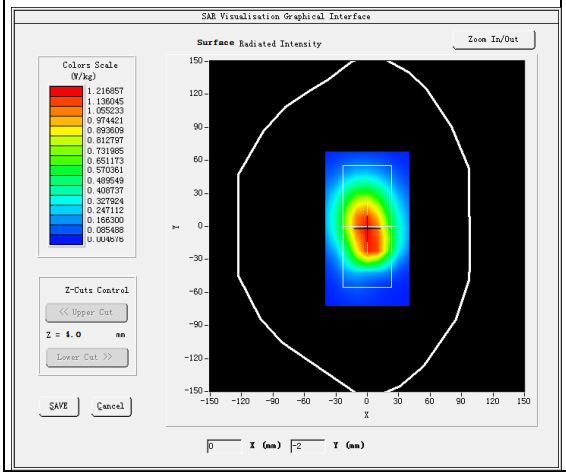
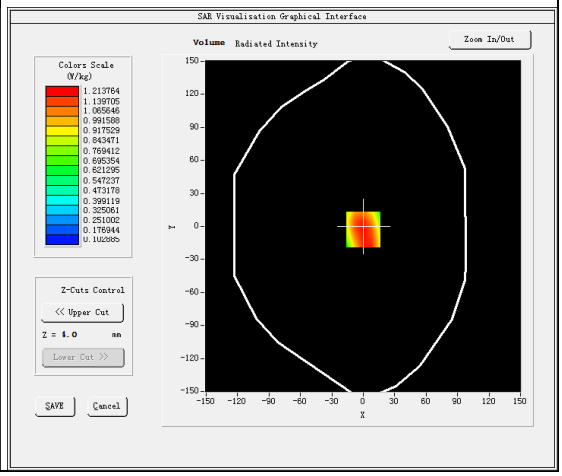
Communication System: UMTS; Communication System Band: BAND V UTRA/FDD; Duty Cycle:1: 1; Conv.F=1.42;
Frequency: 846.6 MHz; Medium parameters used: f = 835MHz; σ= 0.95 mho/m; εr = 41.49; ρ= 1000 kg/m³ ;
Phantom section: Flat Section
Ambient temperature (℃): 20.8, Liquid temperature (℃): 20.6

SATIMO Configuration:

- Probe: SSE2; Calibrated: Apr. 13, 2022; Serial No.: SN 13/22 EPGO368
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_35

Configuration/ WCDMA Band V High-Body-Back/Area Scan: Measurement grid: dx=10mm, dy=10mm
Configuration/ WCDMA Band V 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	WCDMA Band V
Channels	High
Signal	CDMA (Crest factor: 1.0)

SURFACE SAR	VOLUME SAR
	

Maximum location: X=0.00, Y=-3.00
SAR Peak: 1.64 W/kg

SAR 10g (W/Kg)	0.805125
SAR 1g (W/Kg)	1.163066

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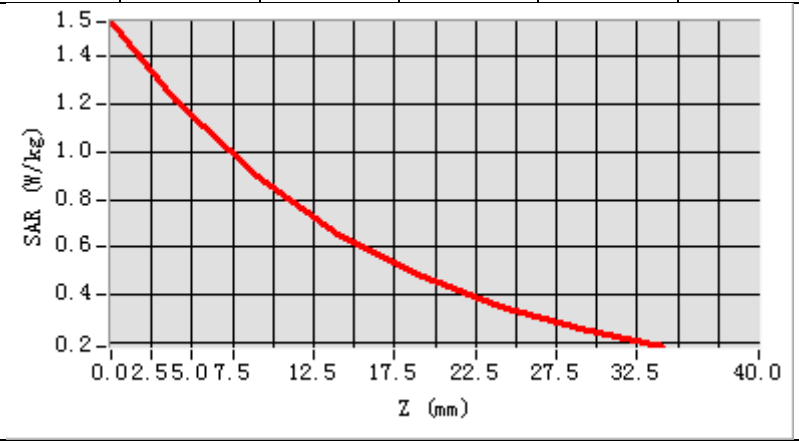
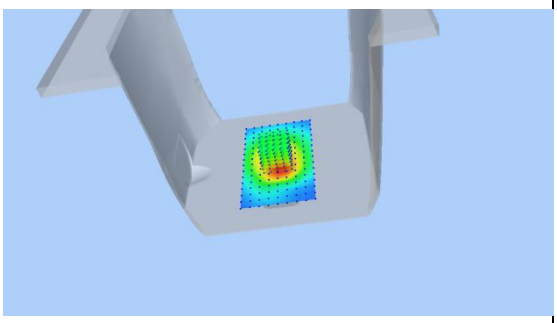
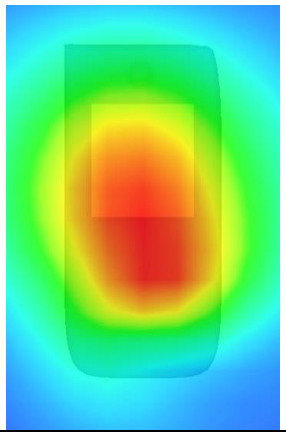
Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.5421	1.2138	0.8984	0.6564	0.4869	0.3514	0.2556



3D screen shot	Hot spot position
	

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Test Laboratory: AGC Lab **Date: Oct. 10, 2022**
LTE Band 2 Mid-Body-Back (1 RB#0)
DUT: Mobile Phone; Type: NET

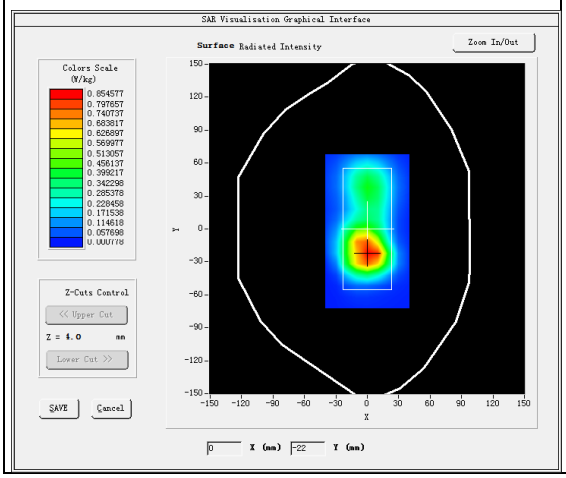
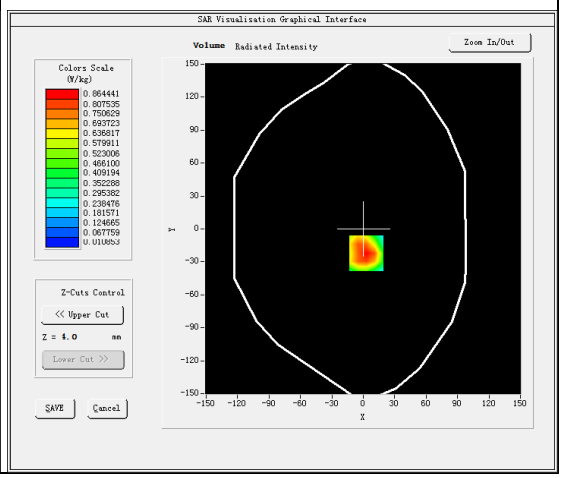
Communication System: LTE; Communication System Band: LTE Band 2; Duty Cycle:1:1; Conv.F=1.77; Frequency:1880MHz; Medium parameters used: f = 1800 MHz; σ= 1.36 mho/m; εr =39.67; ρ= 1000 kg/m³ ;
Phantom section: Flat Section
Ambient temperature (℃): 22.7, Liquid temperature (℃): 22.3

SATIMO Configuration:

- Probe: SSE2; Calibrated: Apr. 13, 2022; Serial No.: SN 13/22 EPGO368
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_35

Configuration/ LTE Band 2 Mid-Body-Back/Area Scan: Measurement grid: dx=10mm, dy=10mm
Configuration/ LTE Band 2 Mid-Body-Back/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5m;

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

SURFACE SAR	VOLUME SAR
	

Maximum location: X=3.00, Y=-22.00
SAR Peak: 1.47 W/kg

SAR 10g (W/Kg)	0.427858
SAR 1g (W/Kg)	0.836124

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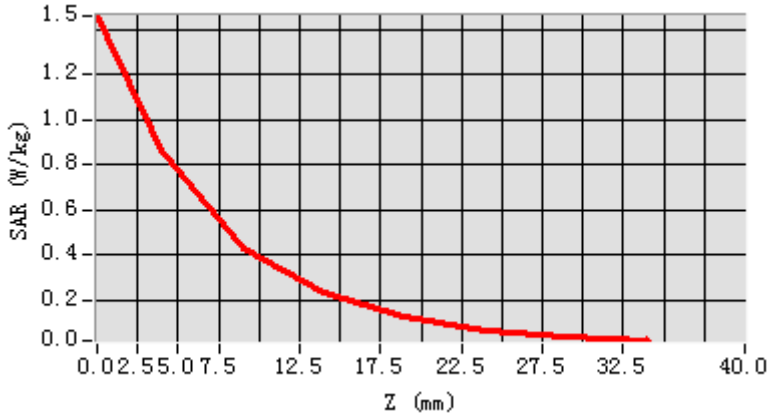
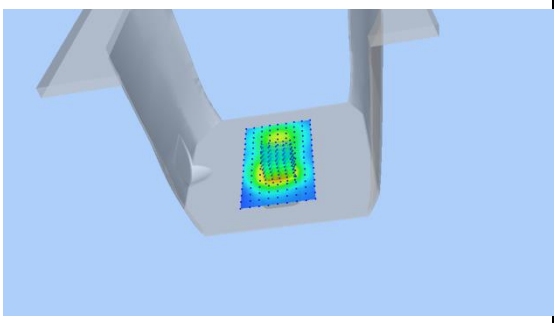
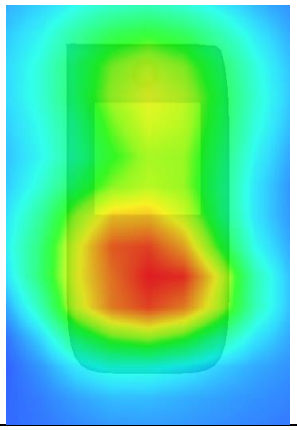
Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.4580	0.8644	0.4319	0.2318	0.1270	0.0704	0.0393



3D screen shot	Hot spot position
	

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Test Laboratory: AGC Lab **Date: Oct. 11, 2022**
LTE Band 4 High-Body-Back (1 RB#0)
DUT: Mobile Phone; Type: NET

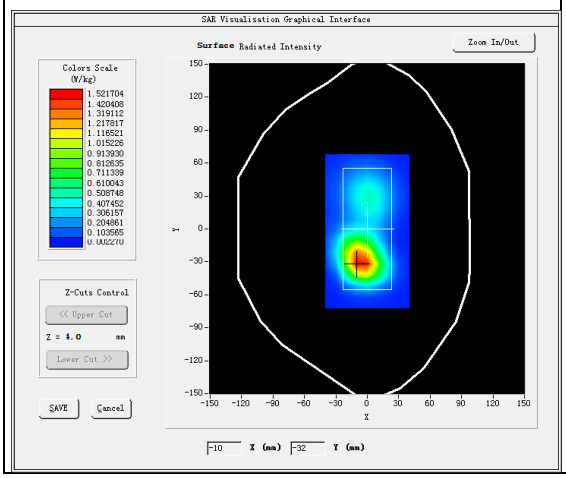
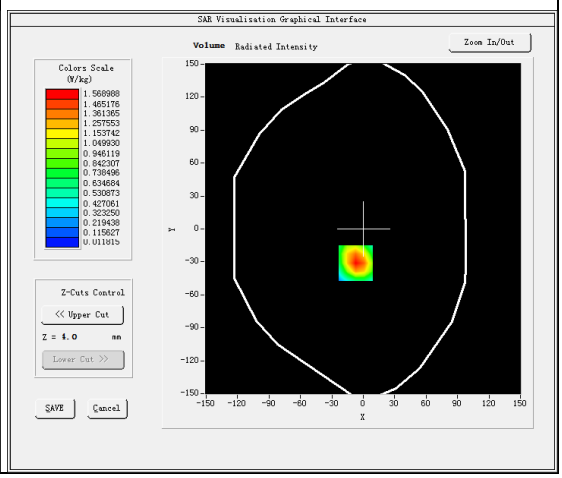
Communication System: LTE; Communication System Band: LTE Band 4; Duty Cycle:1:1; Conv.F=1.73; Frequency:1750 MHz; Medium parameters used: f = 1800 MHz; σ= 1.41 mho/m; εr =39.58; ρ= 1000 kg/m³ ;
Phantom section: Flat Section
Ambient temperature (℃): 21.8, Liquid temperature (℃): 21.5

SATIMO Configuration:

- Probe: SSE2; Calibrated: Apr. 13, 2022; Serial No.: SN 13/22 EPGO368
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_35

Configuration/ LTE Band 4 High-Body-Back/Area Scan: Measurement grid: dx=10mm, dy=10mm
Configuration/ LTE Band 4 High-Body-Back/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5m;

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

SURFACE SAR	VOLUME SAR
	

Maximum location: X=-7.00, Y=-31.00
SAR Peak: 2.63 W/kg

SAR 10g (W/Kg)	0.750896
SAR 1g (W/Kg)	1.498306

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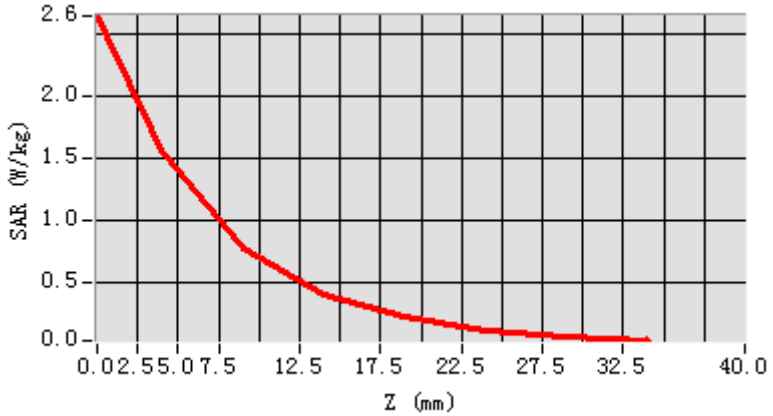
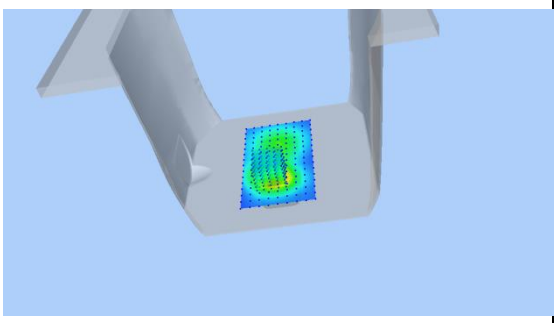
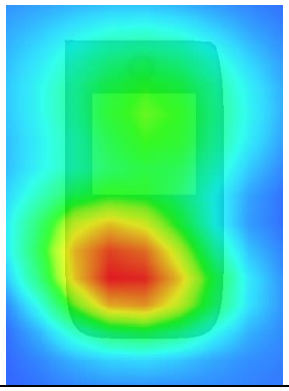
Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	2.6466	1.5690	0.7805	0.4161	0.2239	0.1221	0.0688



3D screen shot	Hot spot position
	

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Test Laboratory: AGC Lab **Date: Oct. 11, 2022**
LTE Band 4 High-Body-Back (1 RB#0)
DUT: Mobile Phone; Type: NET

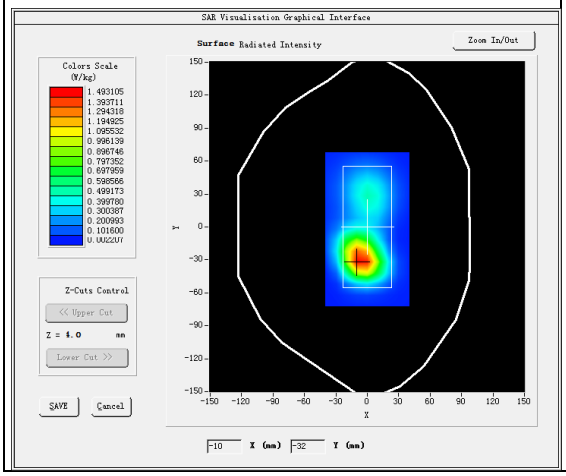
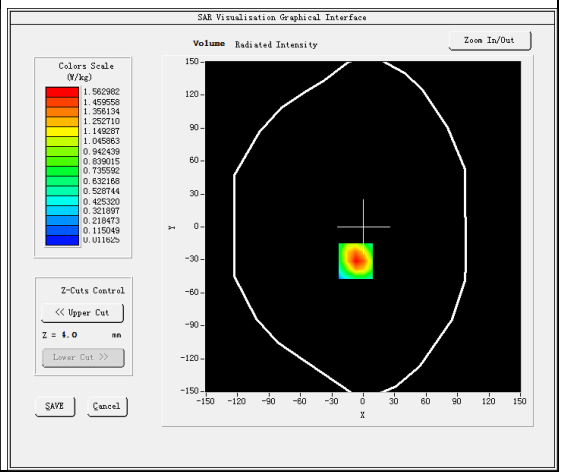
Communication System: LTE; Communication System Band: LTE Band 4; Duty Cycle:1:1; Conv.F=1.73; Frequency:1750 MHz; Medium parameters used: f = 1800 MHz; σ= 1.41 mho/m; εr =39.58; ρ= 1000 kg/m³ ;
Phantom section: Flat Section
Ambient temperature (℃): 21.8, Liquid temperature (℃): 21.5

SATIMO Configuration:

- Probe: SSE2; Calibrated: Apr. 13, 2022; Serial No.: SN 13/22 EPGO368
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_35

Configuration/ LTE Band 4 High-Body-Back/Area Scan: Measurement grid: dx=10mm, dy=10mm
Configuration/ LTE Band 4 High-Body-Back/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5m;

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

SURFACE SAR	VOLUME SAR
	

Maximum location: X=-7.00, Y=-31.00
SAR Peak: 2.62 W/kg

SAR 10g (W/Kg)	0.748450
SAR 1g (W/Kg)	1.492482

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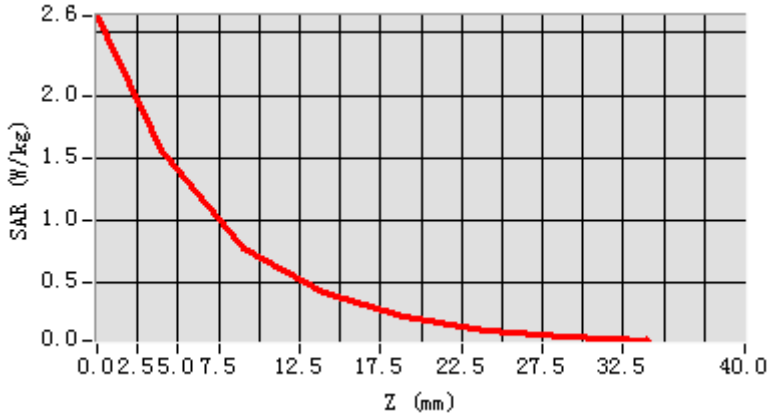
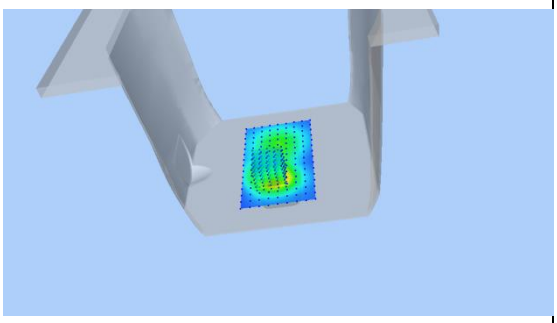
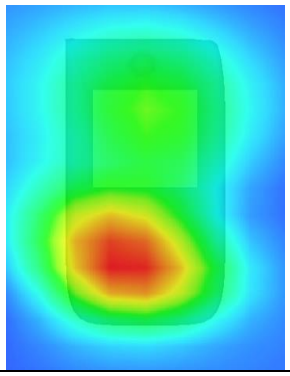
Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	2.6336	1.5630	0.7796	0.4155	0.2239	0.1226	0.0679



3D screen shot	Hot spot position
	

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Test Laboratory: AGC Lab **Date: Oct. 08, 2022**
LTE Band 5 Mid-Body-Back (1 RB#0)
DUT: Mobile Phone; Type: NET

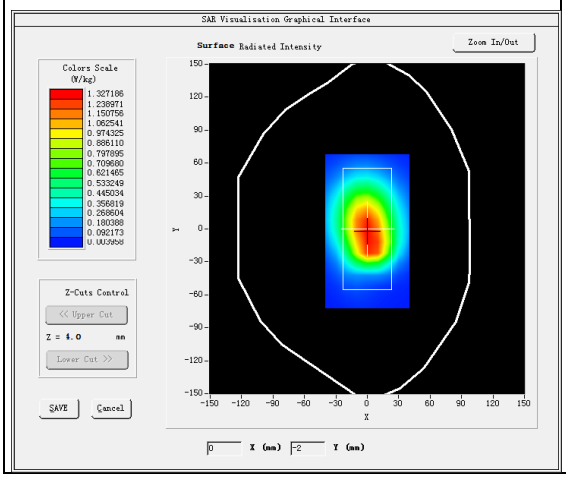
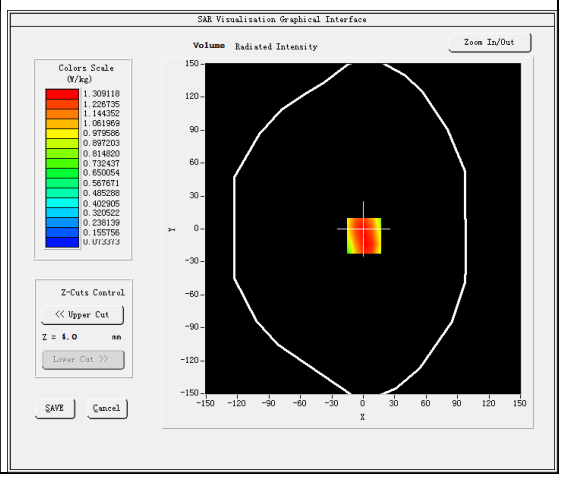
Communication System: LTE; Communication System Band: LTE Band 5; Duty Cycle:1:1; Conv.F=1.42
Frequency:836.5 MHz; Medium parameters used: f = 835 MHz; σ=0.94mho/m; εr =41.65; ρ= 1000 kg/m³ ;
Phantom section: Flat Section
Ambient temperature (℃): 20.8, Liquid temperature (℃): 20.6

SATIMO Configuration:

- Probe: SSE2; Calibrated: Apr. 13, 2022; Serial No.: SN 13/22 EPGO368
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_35

Configuration/ LTE Band 5 Mid-Body-Back/Area Scan: Measurement grid: dx=10mm, dy=10mm
Configuration/ LTE Band 5 Mid-Body-Back/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5m;

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

SURFACE SAR	VOLUME SAR
	

Maximum location: X=1.00, Y=-6.00
SAR Peak: 1.92 W/kg

SAR 10g (W/Kg)	0.854063
SAR 1g (W/Kg)	1.276043

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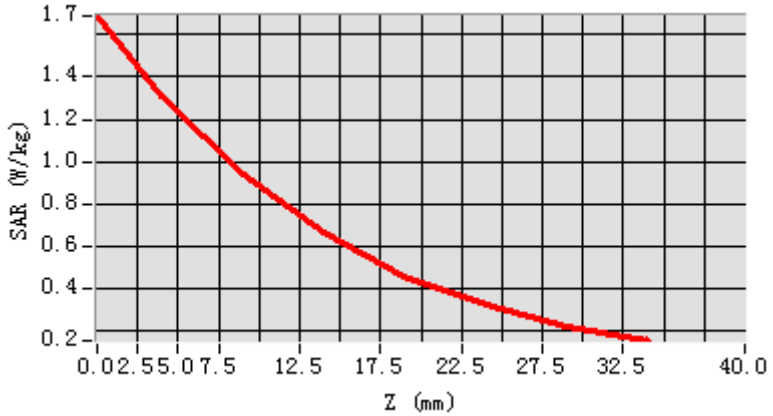
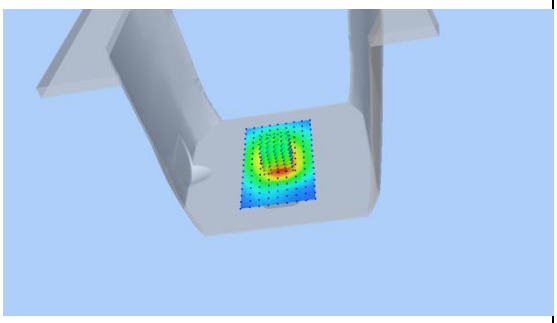
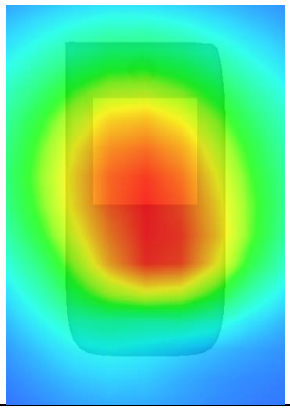
Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.6873	1.3091	0.9381	0.6623	0.4622	0.3251	0.2261



3D screen shot	Hot spot position
	

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Test Laboratory: AGC Lab **Date: Oct. 09, 2022**
LTE Band 7 Mid-Body-Back (1RB#0)
DUT: Mobile Phone; Type: NET

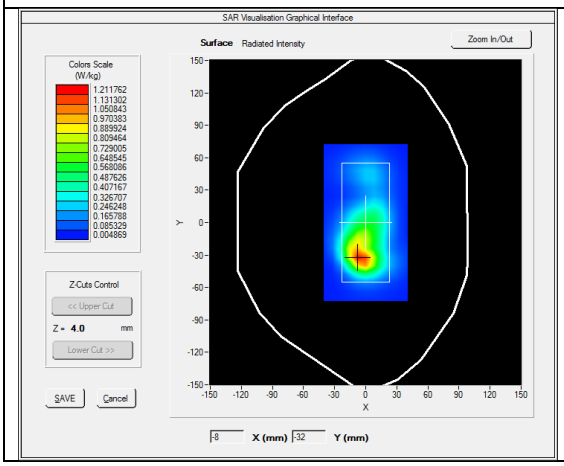
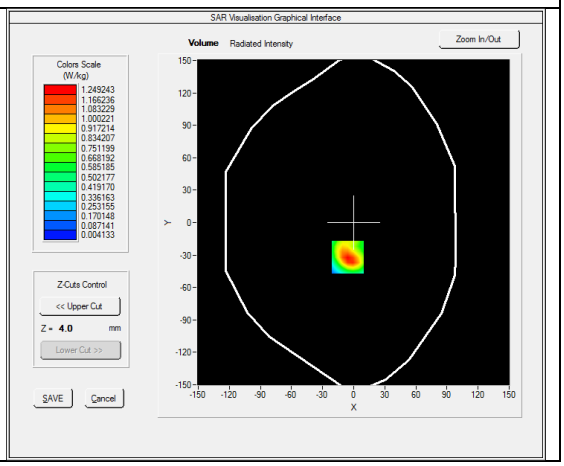
Communication System: LTE; Communication System Band: LTE Band 7; Duty Cycle:1:1; Conv.F=1.82
Frequency: 2535MHz; Medium parameters used: f =2600 MHz; σ=1.97 mho/m; εr =40.13; ρ= 1000 kg/m³ ;
Phantom section: Flat Section
Ambient temperature (℃): 22.4, Liquid temperature (℃): 21.9

SATIMO Configuration:

- Probe: SSE2; Calibrated: Apr. 13, 2022; Serial No.: SN 13/22 EPGO368
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_35

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

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

SURFACE SAR	VOLUME SAR
	

Maximum location: X=-6.00, Y=-32.00
SAR Peak: 2.19 W/kg

SAR 10g (W/Kg)	0.526106
SAR 1g (W/Kg)	1.164752

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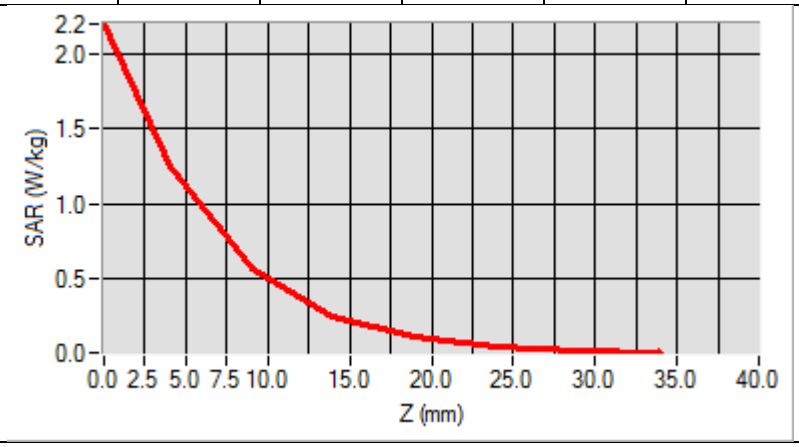
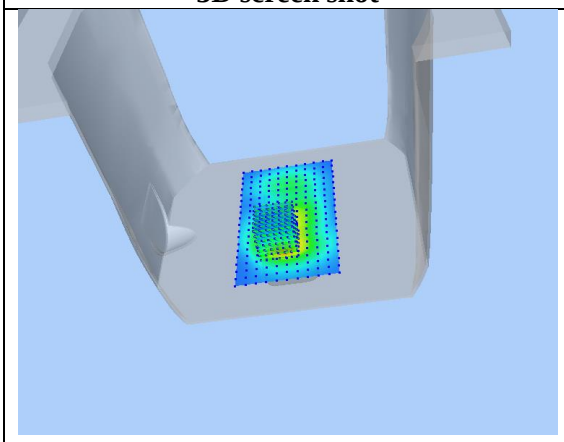
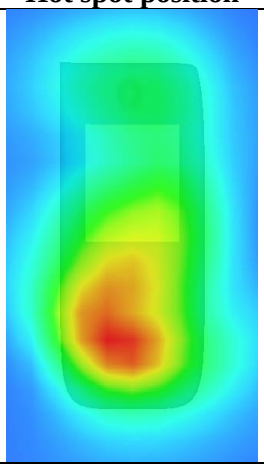
Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	2.1954	1.2492	0.5676	0.2564	0.1148	0.0529	0.0242



3D screen shot	Hot spot position
	

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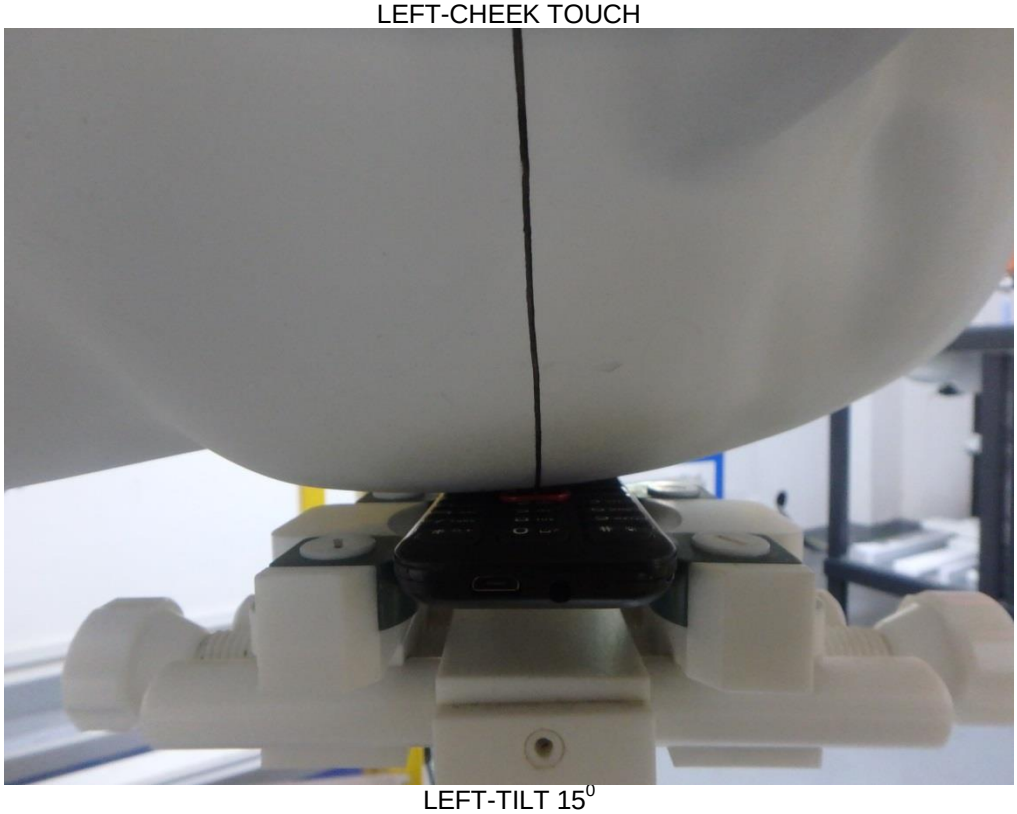
APPENDIX C. TEST SETUP PHOTOGRAPHS

LEFT-CHEEK TOUCH



LEFT-TILT 15^0

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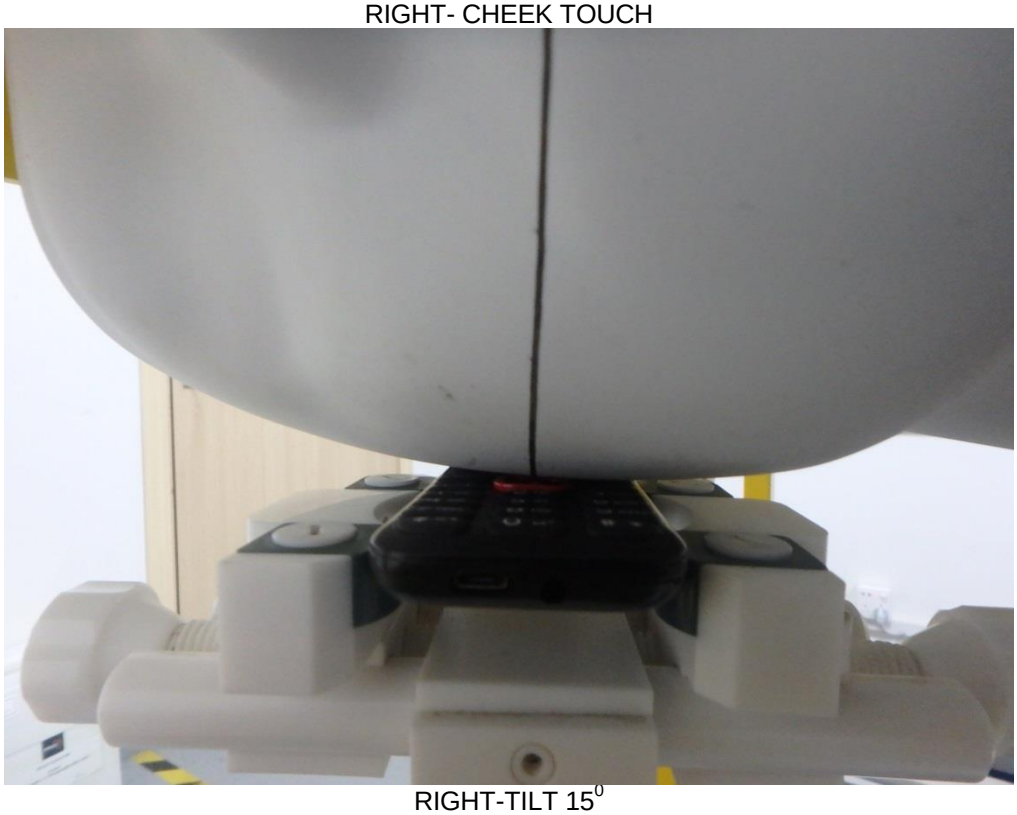
RIGHT- CHEEK TOUCH



RIGHT-TILT 15^0

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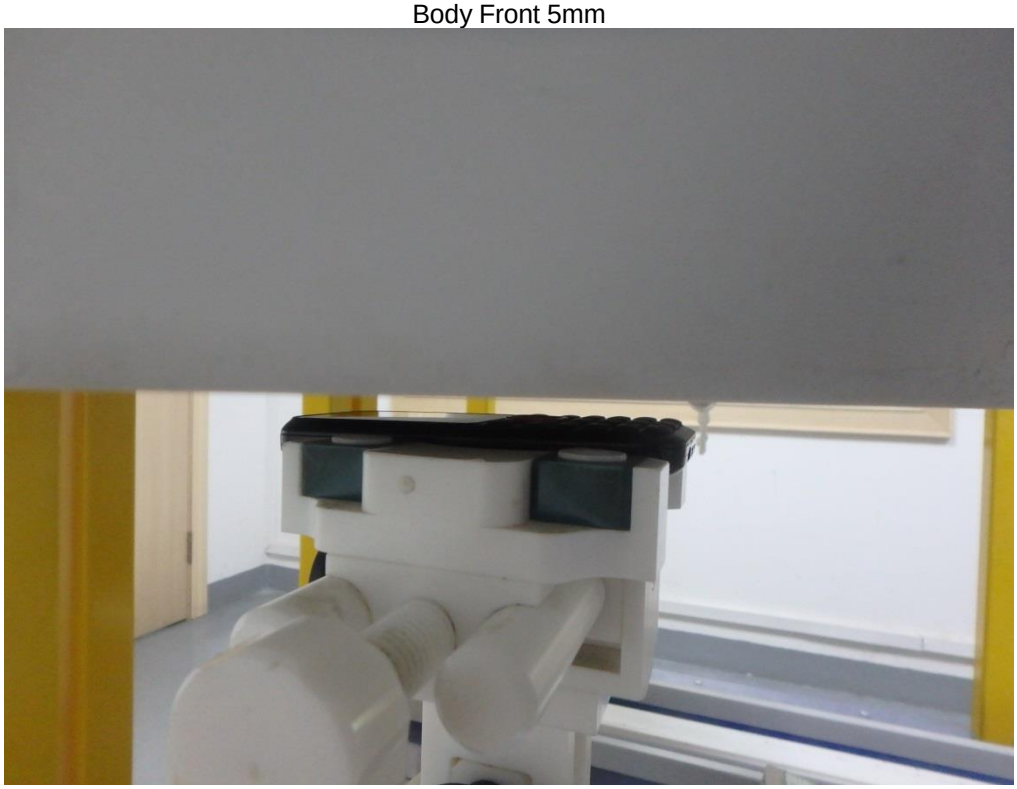
Body Back 5mm

Body Front 5mm



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