SAR Test Report

Report No.: AGC00408230802FH01A

FCC ID	:	2A3DR-AGMH6
APPLICATION PURPOSE	:	Class II Permissive Change
PRODUCT DESIGNATION	:	4G Smart Phone
BRAND NAME	:	AGM
MODEL NAME	:	AGM_H_MAX
APPLICANT	:	AGM MOBILE LIMITED
DATE OF ISSUE	:	Sep. 23, 2024
STANDARD(S)	:	IEEE Std. 1528:2013 FCC 47 CFR Part 2§2.1093 IEEE Std C95.1 ™-2005
REPORT VERSION	:	V1.0

Attestation of Global Compliance(Shenzhen) Co., Ltd.

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Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Sep. 23, 2024	Valid	Initial Release

Note: The original test report AGC00408230802FH01 (dated Aug. 21, 2023 and tested from Aug. 12, 2023 to Aug. 21, 2023) was modified on Sep. 23, 2024, including the following changes and additions:

- Changed model name.
- Changed software version.
- Changed manufacturer, manufacturer address, factory and factory address
- Changed rated voltage of battery and model name, capacitance and manufacturer.
- Changed the circuit components of the headphones (added geomagnetic function).
- Changed the appearance, size, and thickness of the product.
- Changed the antenna.

Other electrical components and motherboard circuits are exactly the same

Based on the above changes, All the data was tested except RF power.

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Test Report

Applicant Name	AGM MOBILE LIMITED
Applicant Address	FLAT/RM 2253 22/F HOI TAI FACTORY ESTATE TSING YEUNG CIRCUIT TUEN MUN NT HONG KONG, CHINA
Manufacturer Name	GUANGDONG AIJIEMO ELECTRONIC INDUSTRY CO., LTD
Manufacturer Address	AGM TECHNOLOGY PARK, NO.187 LIANFA ROAD, TONGQIAO TOWN, ZHONGKAI HIGH-TECH DISTRICT, HUIZHOU CITY, P.R.CHINA
Factory Name	GUANGDONG AIJIEMO ELECTRONIC INDUSTRY CO., LTD
Factory Address	AGM TECHNOLOGY PARK, NO.187 LIANFA ROAD, TONGQIAO TOWN, ZHONGKAI HIGH-TECH DISTRICT, HUIZHOU CITY, P.R.CHINA
Product Designation	4G Smart Phone
Brand Name	AGM
Model Name	AGM_H_MAX
Series Models	N/A
Declaration of Difference	N/A
EUT Voltage	DC 3.85V by battery
Applicable Standard	IEEE Std. 1528:2013 FCC 47 CFR Part 2§2.1093 IEEE Std C95.1 ™-2005
Date of receipt of test item	Aug. 14, 2024
Test Date	Sep. 03, 2024 to Sep. 12, 2024
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

Jack Gui(Project Engineer) Sep. 23, 2024

Reviewed By

Calvin Liu (Reviewer) Sep. 23, 2024

Approved By

Max Zhang (Authorized Officer) Sep. 23, 2024

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1. SUMMARY OF MAXIMUM SAR VALUE

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

Frequency Band	Highest Reported 1g-SAR(W/kg)			SAR Test Limit (W/kg)
	Head	Body-worn(with 10mm separation)	Hotspot(with 10mm separation)	
GSM 850	0.347	0.650	0.526	1.6
PCS 1900	0.520	0.386	0.386	
UMTS Band II	0.866	0.778	0.778	
UMTS Band V	0.495	0.725	0.725	
LTE Band 2	0.983	0.815	0.815	
LTE Band 4	0.665	0.343	0.343	
LTE Band 5	0.351	0.585	0.585	
LTE Band 12	0.191	0.289	0.289	
LTE Band 26a	0.370	0.629	0.629	
LTE Band 26b	0.268	0.446	0.446	
LTE Band 41	0.066	0.315	0.315	
WIFI 2.4G	0.501	0.354	0.354	
5.2GHz (U-NII-1)	0.794	0.622	0.622	
5.8GHz (U-NII-3)	0.550	0.683	0.683	
Simultaneous Reported SAR	1.498			
SAR Test Result	PASS			

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

- KDB 447498 D01 General RF Exposure Guidance v06
- KDB 648474 D04 Handset SAR v01r03
- KDB 865664 D01 SAR Measurement 100MHz to 6GHz v01r04
- KDB 941225 D01 3G SAR Procedures v03r01
- KDB 941225 D06 Hotspot Mode v02r01
- KDB 248227 D01 802 11 Wi-Fi SAR v02r02
- KDB 941225 D05 SAR for LTE Devices v02r05

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2. GENERAL INFORMATION

2.1. EUT Description

General Information	
Product Designation	4G Smart Phone
Test Model	AGM_H_MAX
Sample ID	240813172
Hardware Version	S681_V1
Software Version	Android 14
Device Category	Portable
RF Exposure Environment	Uncontrolled
Antenna Type	Internal
GSM and GPRS& EGPRS	
Support Band	☒GSM 850 ☒PCS 1900 ☒GSM 900 ☒DCS 1800
GPRS & EGPRS Type	Class B
GPRS & EGPRS Class	Class 12(1Tx+4Rx, 2Tx+3Rx, 3Tx+2Rx, 4Tx+1Rx)
TX Frequency Range	GSM 850 : 820-850MHz; PCS 1900: 1850-1910MHz;
RX Frequency Range	GSM 850 : 869~894MHz; PCS 1900: 1930~1990MHz
Release Version	R99
Type of modulation	GMSK for GSM/GPRS; GMSK & 8-PSK for EGPRS
Antenna Gain	GSM850:-3.01dBi; PCS1900:-1.83dBi
Max. Average Power	GSM850: 33.28dBm; PCS1900: 30.09dBm
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	WCDMA850:-3.01dBi; WCDMA1900:-1.83dBi
Max. Average Power	Band II: 23.88dBm; Band V: 22.11dBm
Bluetooth	
Bluetooth Version	V5.0
Operation Frequency	2402~2480MHz
Type of modulation	☒GFSK ☒Π/4-DQPSK ☒8-DPSK
Peak Power	5.867dBm
Antenna Gain	0.94dBi
2.4GHz WIFI	
WIFI Specification	☐802.11a ☒802.11b ☒802.11g ☒802.11n(20) ☒802.11n(40)
Operation Frequency	2412~2462MHz
Avg. Burst Power	11b: 15.10dBm,11g: 12.89dBm,11n(20): 11.39dBm,11n(40): 11.55dBm
Antenna Gain	0.94dBi

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EUT Description(Continue)

LTE	
Support Band	☒FDD Band 2 ☒FDD Band 4 ☒FDD Band 5 ☐FDD Band 7 ☒FDD Band 12 ☐FDD Band 13 ☐FDD Band 17 ☐FDD Band 25 ☒FDD Band 26 ☐TDD Band 38 ☐TDD Band 40 ☒TDD Band 41 ☐FDD Band 66 ☐FDD Band 71 (U.S. Bands)
TX Frequency Range	Band 2:1850-1910MHz; Band 4:1710-1755MHz;Band 5:824-849MHz; Band 12:699-716MHz; Band 26: 814-849MHz; Band 41:2496-2690MHz;
RX Frequency Range	Band 2:1930-1990MHz; Band 4:2110-2155MHz; Band 5:869-894MHz; Band 12: 729-746 MHz; Band 26: 859-894MHz; Band 41:2496-2690MHz;
Release Version	Rel-8
Type of modulation	QPSK, 16QAM
Antenna Gain	Band 2:-1.83dBi; Band 4:-1.26dBi; Band 5:-3.01dBi; Band 12:-3.58dBi; Band26A:-3.01dBi; Band26B:-3.07dBi; Band 41:-0.55dBi;
Max. Average Power	Band 2: 24.78 dBm; Band 4: 26.18dBm; Band 5: 22.79dBm; Band 12: 23.57dBm; Band 26: 25.52dBm; Band 41: 25.44 dBm;
5 GHz WIFI	
WIFI Specification	☒802.11a ☒802.11n20 ☒802.11n40 ☒802.11ac20 ☒802.11ac40 ☒802.11ac80
Operation Frequency	U-NII-1: 5180MHz~5240MHz; U-NII-3: 5745MHz~5825MHz
Max. conducted Power	U-NII-1: 12.82dBm; U-NII-3: 10.98dBm
Antenna Gain	U-NII-1: -1.24 dBi; U-NII-3: 0.23 dBi
Accessories	
Battery	Brand name: N/A Model No. : AGM_H_MAX Voltage and Capacitance: 3.85 V & 10000mAh
Earphone	Brand name: N/A Model No. : N/A

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

Product	Type
	☒ Production unit ☐ Identical Prototype

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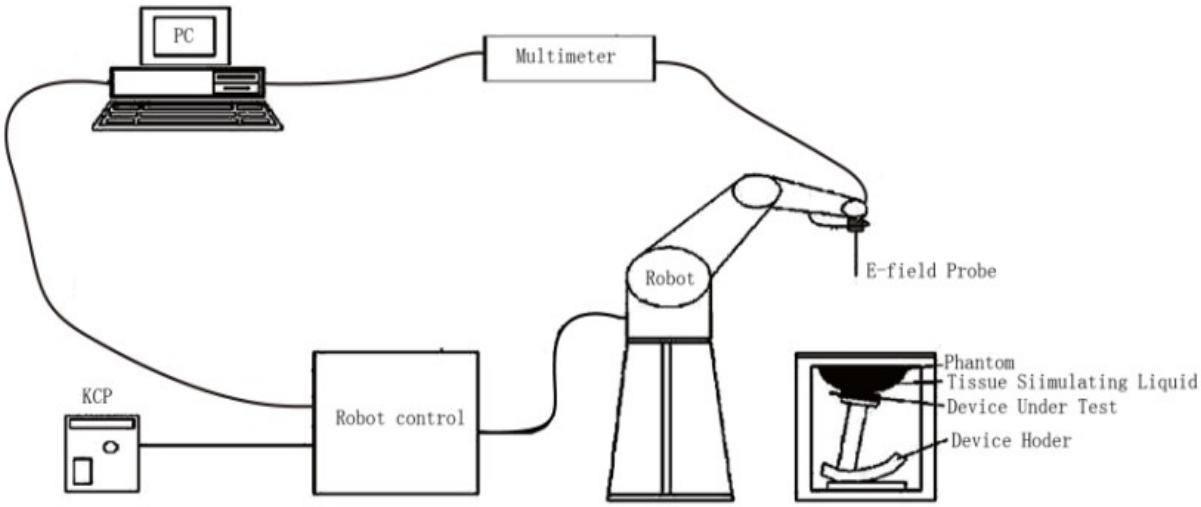
3. SAR MEASUREMENT SYSTEM

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



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

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

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3.2. COMOSAR E-Field Probe

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

Isotropic E-Field Probe Specification

Model	SSE2	
Manufacture	MVG	
Identification No.	2023-EPGO-414	
Frequency	0.15GHz-7.5GHz Linearity:±0.08dB(0.15GHz-7.5GHz)	
Dynamic Range	0.01W/kg-100W/kg Linearity:±0.08dB	
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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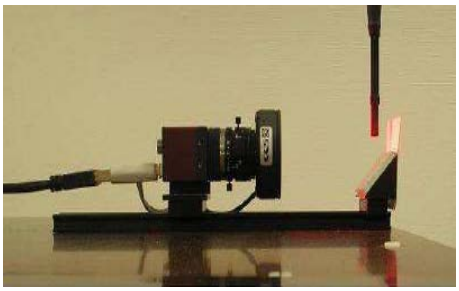
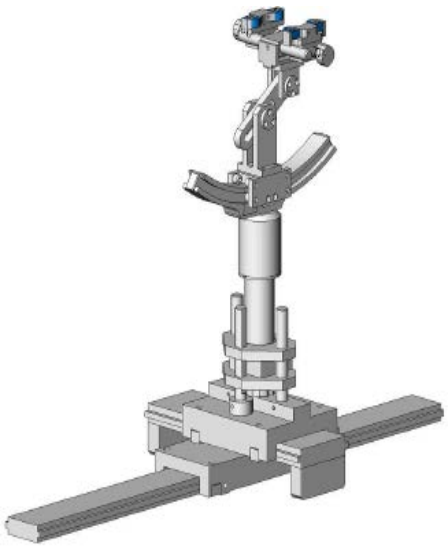
3.4. Video Positioning System

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 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

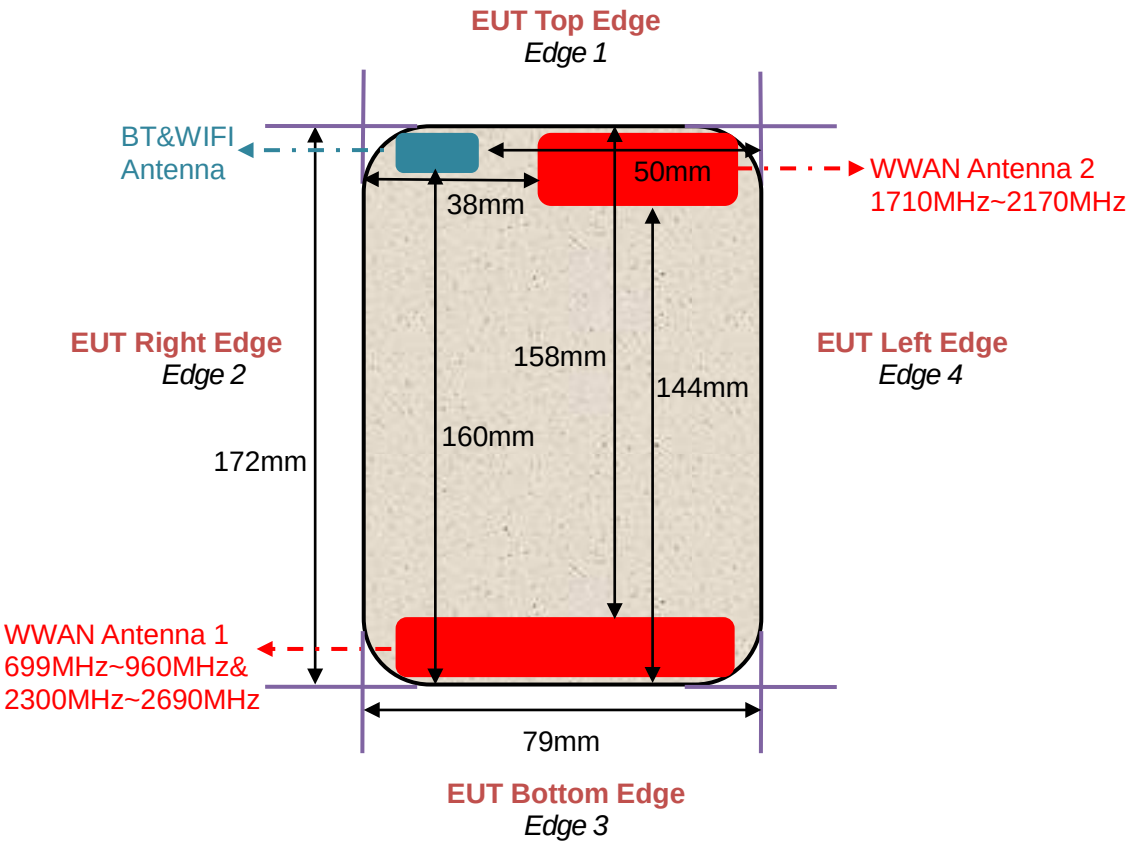
Test Configuration and setting:

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

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

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

Antenna Location: (the back view)



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For WWAN Antenna 1 mode:

Test Configurations	Antenna to edges/surface	SAR required	Note
Head			
Left Touch		Yes	--
Left Tilt		Yes	--
Right Touch		Yes	--
Right Tilt		Yes	--
Body			
Back	<25mm	Yes	--
Front	<25mm	Yes	--
Hotspot			
Back	<25mm	Yes	--
Front	<25mm	Yes	--
Edge 1 (Top)	158mm	No	SAR is not required for the distance between the antenna and the edge is >25mm as per KDB 941225 D06 Hotspot SAR
Edge 2 (Right)	5mm	Yes	--
Edge 3 (Bottom)	6mm	Yes	--
Edge 4 (Left)	6mm	Yes	--

For WWAN Antenna 2 mode:

Test Configurations	Antenna to edges/surface	SAR required	Note
Head			
Left Touch		Yes	--
Left Tilt		Yes	--
Right Touch		Yes	--
Right Tilt		Yes	--
Body			
Back	<25mm	Yes	--
Front	<25mm	Yes	--
Hotspot			
Back	<25mm	Yes	--
Front	<25mm	Yes	--
Edge 1 (Top)	6mm	Yes	--
Edge 2 (Right)	38mm	No	SAR is not required for the distance between the antenna and the edge is >25mm as per KDB 941225 D06 Hotspot SAR
Edge 3 (Bottom)	144mm	No	SAR is not required for the distance between the antenna and the edge is >25mm as per KDB 941225 D06 Hotspot SAR
Edge 4 (Left)	6mm	Yes	--

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For WLAN mode:

Test Configurations	Antenna to edges/surface	SAR required	Note
Head			
Left Touch		Yes	--
Left Tilt		Yes	--
Right Touch		Yes	--
Right Tilt		Yes	--
Body			
Back	<25mm	Yes	--
Front	<25mm	Yes	--
Hotspot			
Back	<25mm	Yes	--
Front	<25mm	Yes	--
Edge 1 (Top)	6mm	Yes	--
Edge 2 (Right)	6mm	Yes	--
Edge 3 (Bottom)	160mm	No	SAR is not required for the distance between the antenna and the edge is >25mm as per KDB 941225 D06 Hotspot SAR
Edge 4 (Left)	50mm	No	SAR is not required for the distance between the antenna and the edge is >25mm as per KDB 941225 D06 Hotspot SAR

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5. TISSUE SIMULATING LIQUID

For SAR measurement of the field distribution inside the phantom, the phantom must be filled with homogeneous tissue simulating liquid to a depth of at least 15cm. For head SAR testing the liquid height from the ear reference point (ERP) of the phantom to the liquid top surface is larger than 15cm For body SAR testing, the liquid height from the center of the flat phantom to the liquid top surface is larger than 15cm.The nominal dielectric values of the tissue simulating liquids in the phantom and the tolerance of 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**	**Diethylen glycol monohex ylether**
750 Head	35	2	0.0	0.0	63	0.0	0.0
835 Head	50.36	1.25	48.39	0.0	0.0	0.0	0.0
1750 Head	52.64	0.36	0.0	47	0.0	0.0	0.0
1900 Head	54.9	0.18	0.0	44.92	0.0	0.0	0.0
2450 Head	71.88	0.16	0.0	7.99	0.0	19.97	0.0
2600 Head	55.242	0.306	0	44.452	0	0	0.0
5000 Head	65.52	0.0	0.0	0.0	0.0	17.24	17.24

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5.2. Tissue Dielectric Parameters for Head and Body Phantoms

The head and body tissue dielectric parameters recommended by the IEEE Std. 1528 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
5200	**36.0**	**4.66**	**36.0**	**4.66**
5300	**35.9**	**4.76**	**35.9**	**4.76**
5600	**35.5**	**5.07**	**35.5**	**5.07**
5800	**35.3**	**5.27**	**35.3**	**5.27**

(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 750MHz					
	Fr. (MHz)	Dielectric Parameters (±10%)		Tissue Temp [°C]	Test time
		εr 41.9 (37.71-46.09)	δ[s/m] 0.89(0.801-0.979)		
Head	707.5	44.69	0.88	21.0	Sep. 04, 2024
	710	43.29	0.89		
	750	42.23	0.92		

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	821.5	42.36	0.88	21.2	Sep. 03, 2024
	835	41.27	0.91		
	836.4	40.71	0.93		
	836.5	40.71	0.93		
	836.6	40.71	0.93		

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	1732.4	40.79	1.37	20.8	Sep. 05, 2024
	1732.5	40.79	1.37		
	1750	39.67	1.40		

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	1860	41.65	1.33	20.9	Sep. 06, 2024
	1880	40.22	1.35		
	1900	39.63	1.38		

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Tissue Stimulant Measurement for 2450MHz					
Head	Fr. (MHz)	Dielectric Parameters (±10%)		Tissue Temp [°C]	Test time
		εr39.2(35.28-43.12)	δ[s/m]1.80(1.62-1.98)		
	2437	39.77	1.72	21.4	Sep. 07, 2024
	2450	38.50	1.75		

Tissue Stimulant Measurement for 2600MHz					
Head	Fr. (MHz)	Dielectric Parameters (±10%)		Tissue Temp [°C]	Test time
		εr39(35.1-42.9)	δ[s/m]1.96(1.764-2.156)		
	2593	39.66	1.91	21.1	Sep. 08, 2024
	2600	38.29	1.93		

Tissue Stimulant Measurement for 5200MHz					
Head	Fr. (MHz)	Dielectric Parameters (±10%)		Tissue Temp [°C]	Test time
		εr 36.0(32.4-39.6)	δ[s/m] 4.66(4.194 -5.126)		
	5200	35.34	4.57	20.6	Sep. 11, 2024

Tissue Stimulant Measurement for 5800MHz					
Head	Fr. (MHz)	Dielectric Parameters (±10%)		Tissue Temp [°C]	Test time
		εr 35.3 (31.77-38.83)	δ[s/m] 5.27 (4.743-5.797)		
	5785	37.42	5.23	20.8	Sep. 12, 2024
	5800	36.61	5.35		

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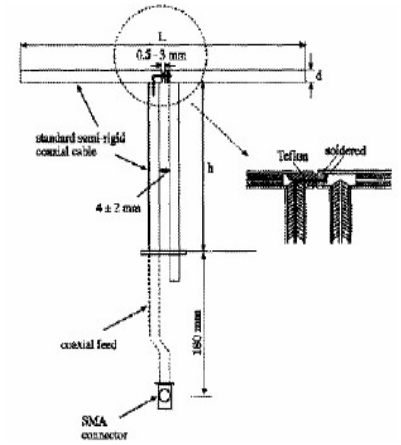
6. SAR SYSTEM CHECK PROCEDURE

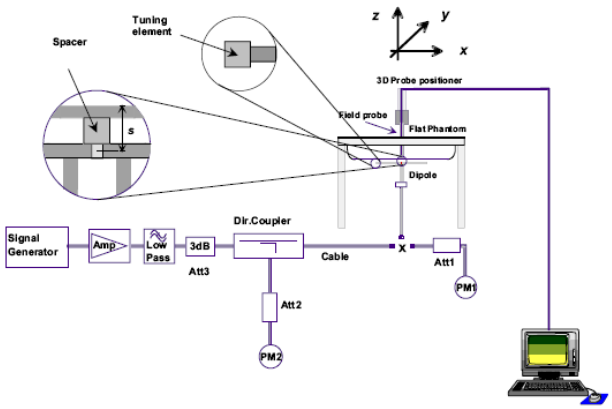
6.1. SAR System Check Procedures

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

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

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





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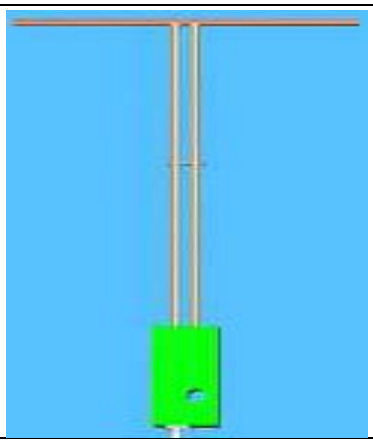
6.2. SAR System Check
6.2.1. Dipoles

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

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

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6.2.2. System Check Result

System Performance Check at 750MHz&835MHz &1800MHz &1900MHz &2450MHz&2600MHz & 5200-5800MHz for Head								
Validation Kit: SN 22/16 DIP 0G750-417& SN 15/16 DIP 0G835-399& SN 46/11 DIP 1G800-186& SN 29/15 DIP 1G900-389& SN 29/15 DIP 2G450-393& SN 22/16 DIP 2G600-407& SN 17/22 DIP 5G000-671								
Frequency [MHz]	Target Value(W/kg)		Reference Result (± 10%)		Tested Value(W/kg)		Tissue Temp. [°C]	Test time
	1g	10g	1g	10g	1g	10g		
750	8.33	5.44	7.497-9.163	4.896-5.984	8.79	5.47	21.0	Sep. 04, 2024
835	9.67	6.14	8.703-10.637	5.526-6.754	10.01	6.23	21.2	Sep. 03, 2024
1800	37.76	19.60	33.984-41.536	17.640-21.560	40.54	20.50	20.8	Sep. 05, 2024
1900	41.26	20.86	37.134-45.386	18.774-22.946	39.77	20.05	20.9	Sep. 06, 2024
2450	54.32	24.25	48.888-59.752	21.825-26.675	54.23	24.32	21.4	Sep. 07, 2024
2600	54.94	23.77	49.446-60.434	21.393-26.147	52.88	24.11	21.1	Sep. 08, 2024
5200	73.43	21.83	66.087-80.773	19.647-24.013	66.46	23.06	20.6	Sep. 11, 2024
5800	75.69	22.44	68.121-83.259	20.196-24.684	69.71	24.24	20.6	Sep. 11, 2024

Note:
(1) We use a CW signal of 18dBm or10dBm 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

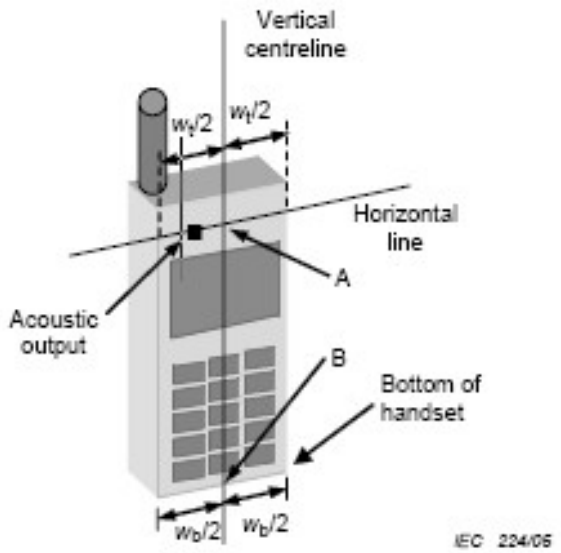
This EUT was tested in **Right Cheek, Right Tilted, Left Cheek, Left Tilted, Body back, Body front and 4 edges.**

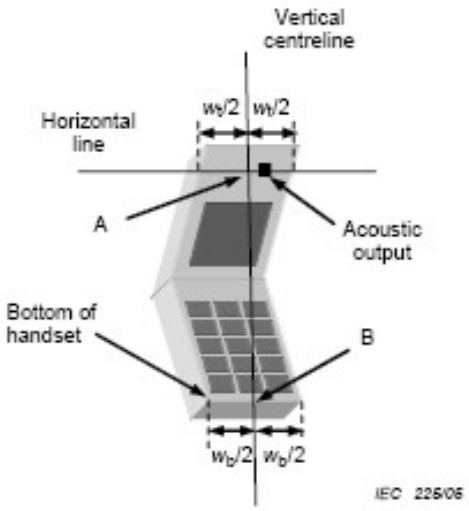
7.1. Define Two Imaginary Lines on the Handset

(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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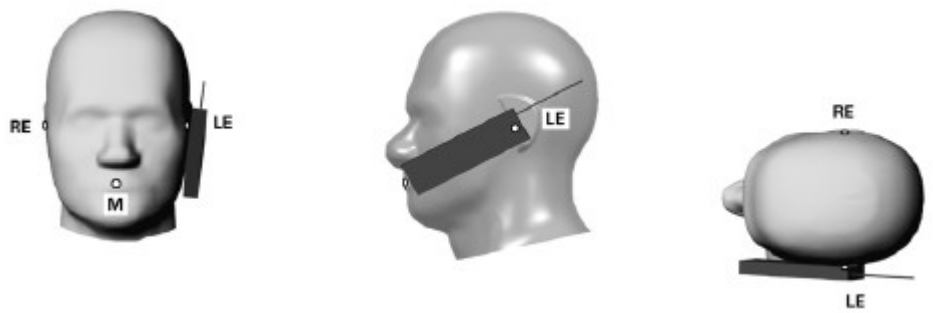
7.2. Cheek Position

(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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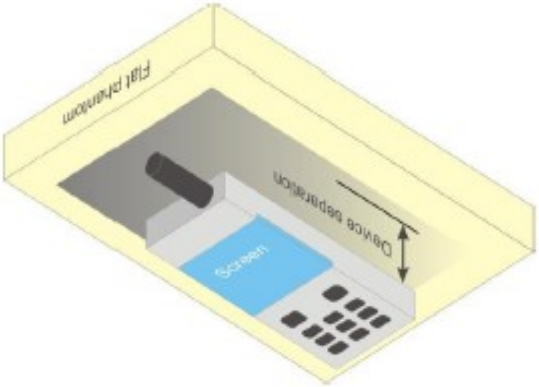
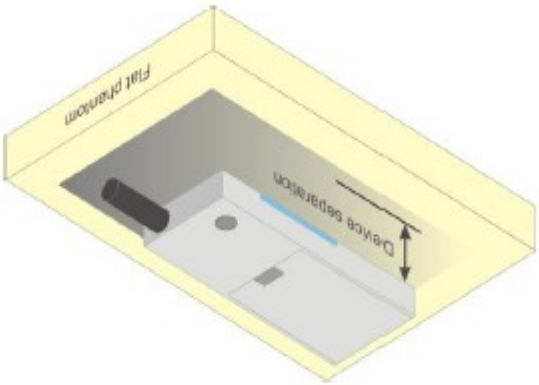
7.4. Body Worn Position

(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 **10mm.**





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8. SAR EXPOSURE LIMITS

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

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

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9. TEST FACILITY

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

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10. TEST EQUIPMENT LIST

Equipment description	Manufacturer/ Model	Identification No.	Software version	Current calibration date	Next calibration date
SAR Probe	MVG	2023-EPGO-414	N/A	Apr. 30, 2024	Apr. 29, 2025
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	GB46200384	N/A	May 28, 2024	May 27, 2025
Comm Tester	R&S- CMW500	121209	V3.7.40	May 23, 2024	May 22, 2025
Multimeter	Keithley 2000	1350784	N/A	May 24, 2024	May 23, 2025
SAR Software	SATIMO-OpenSAR	N/A	OpenSAR V4_02_32	N/A	N/A
Dipole	SATIMO SID750	SN 22/16 DIP 0G750-417	N/A-	Apr. 28,2022	Apr. 27,2025
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 SID2450	SN 29/15 DIP 2G450-393	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
Dipole	SID5000	SN 17/22 DIP 5G000-671	N/A	Apr. 28,2022	Apr. 27, 2025
Signal Generator	Agilent-E4438C	US41461365	V5.03	May 24, 2024	May 23, 2025
EXA Signal Analyzer	Agilent / N9010A	MY53470504	N/A	May 28, 2024	May 27, 2025
Network Analyzer	Rhode & Schwarz ZVL6	SN101443	3.2	Jul. 24, 2024	Jul. 23, 2025
Attenuator	Warison /WATT-6SR1211	S/N:WRJ34AYM2F1	N/A	June 06, 2024	June 05, 2025
Attenuator	Mini-circuits / VAT-10+	31405	N/A	June 06, 2024	June 05, 2025
Amplifier	AS0104-55_55	1004793	N/A	N/A	N/A
Directional Couple	Werlatone/ C5571-10	SN99463	N/A	Feb. 01, 2024	Jan. 31, 2026
Directional Couple	Werlatone/ C6026-10	SN99482	N/A	Feb. 01, 2024	Jan. 31, 2026
Power Sensor	NRP-Z21	104604	N/A	May 24, 2024	May 23, 2025
Power Sensor	NRP-Z23	100323	N/A	Jun. 05, 2024	Jun. 04, 2025
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	Nov. 11, 2023	Nov. 10, 2024

Note: Per KDB 865664 Dipole SAR Validation, AGC Lab has adopted 3 years calibration intervals. On annual basis, every measurement dipole has been evaluated and is in compliance with the following criteria:
1. There is no physical damage on the dipole;
2. System validation with specific dipole is within 10% of calibrated value;
3. Return-loss is within 20% of calibrated measurement;
4. Impedance is within 5Ω of calibrated measurement.

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11. MEASUREMENT UNCERTAINTY

SATIMO Uncertainty- 2023-EPGO-414 Measurement uncertainty for DUT averaged over 1 gram / 10 gram.									
Uncertainty Component	Sec.	Tol (+- %)	Prob. Dist.	Div.	Ci (1g)	Ci (10g)	1g Ui (+-%)	10g Ui (+-%)	vi
Measurement System									
Probe calibration	E.2.1	7.000	N	1	1	1	7.000	7.000	∞
Axial Isotropy	E.2.2	0.090	R	$\sqrt{3}$	√0.5	√0.5	0.037	0.037	∞
Hemispherical Isotropy	E.2.2	0.090	R	$\sqrt{3}$	√0.5	√0.5	0.037	0.037	∞
Boundary effect	E.2.3	1.000	R	$\sqrt{3}$	1	1	0.577	0.577	∞
Linearity	E.2.4	0.890	R	$\sqrt{3}$	1	1	0.514	0.514	∞
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				10.526	10.341	
Expanded Uncertainty (95% Confidence interval)			K=2				21.052	20.682	

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SATIMO Uncertainty- 2023-EPGO-414 System Validation uncertainty for DUT averaged over 1 gram / 10 gram.									
Uncertainty Component	Sec.	Tol (+- %)	Prob. Dist.	Div.	Ci (1g)	Ci (10g)	1g Ui (+-%)	10g Ui (+-%)	vi
Measurement System									
Probe calibration	E.2.1	7.000	N	1	1	1	7.000	7.000	∞
Axial Isotropy	E.2.2	0.090	R	$\sqrt{3}$	1	1	0.052	0.052	∞
Hemispherical Isotropy	E.2.2	0.090	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	0.890	R	$\sqrt{3}$	1	1	0.514	0.514	∞
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				10.459	10.272	
Expanded Uncertainty (95% Confidence interval)			K=2				20.917	20.545	

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SATIMO Uncertainty- 2023-EPGO-414 System Check uncertainty for DUT averaged over 1 gram / 10 gram.									
Uncertainty Component	Sec.	Tol (+- %)	Prob. Dist.	Div.	Ci (1g)	Ci (10g)	1g Ui (+-%)	10g Ui (+-%)	vi
Measurement System									
Probe calibration drift	E.2.1.3	0.500	N	1	1	1	0.50	0.50	∞
Axial Isotropy	E.2.2	0.090	R	$\sqrt{3}$	0	0	0.00	0.00	∞
Hemispherical Isotropy	E.2.2	0.090	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	0.890	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	32.87	-9	23.87
	836.6	33.05	-9	24.05
	848.8	**33.28**	-9	24.28
GPRS 850 （1 Slot）	824.2	32.77	-9	23.77
	836.6	32.79	-9	23.79
	848.8	32.95	-9	23.95
GPRS 850 （2 Slot）	824.2	30.63	-6	24.63
	836.6	30.22	-6	24.22
	848.8	30.36	-6	24.36
GPRS 850 （3 Slot）	824.2	25.63	-4.26	21.37
	836.6	25.26	-4.26	21.00
	848.8	25.48	-4.26	21.22
GPRS 850 （4 Slot）	824.2	24.00	-3	21.00
	836.6	23.82	-3	20.82
	848.8	23.63	-3	20.63
EGPRS 850 （1 Slot）	824.2	27.14	-9	18.14
	836.6	27.07	-9	18.07
	848.8	27.24	-9	18.24
EGPRS 850 （2 Slot）	824.2	25.36	-6	19.36
	836.6	25.41	-6	19.41
	848.8	25.36	-6	19.36
EGPRS 850 （3 Slot）	824.2	23.01	-4.26	18.75
	836.6	23.51	-4.26	19.25
	848.8	23.04	-4.26	18.78
EGPRS 850 （4 Slot）	824.2	21.11	-3	18.11
	836.6	21.02	-3	18.02
	848.8	21.00	-3	18

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Mode	Frequency(MHz)	Avg. Burst Power(dBm)	Duty cycle Factor(dBm)	Frame Power(dBm)
Maximum Power <2>				
GSM 850	824.2	31.80	-9	22.80
	836.6	31.79	-9	22.79
	848.8	31.85	-9	22.85
GPRS 850 （1 Slot）	824.2	31.73	-9	22.73
	836.6	31.83	-9	22.83
	848.8	31.51	-9	22.51
GPRS 850 （2 Slot）	824.2	29.67	-6	23.67
	836.6	29.30	-6	23.30
	848.8	30.11	-6	24.11
GPRS 850 （3 Slot）	824.2	25.22	-4.26	20.96
	836.6	24.33	-4.26	20.07
	848.8	25.41	-4.26	21.15
GPRS 850 （4 Slot）	824.2	23.71	-3	20.71
	836.6	23.77	-3	20.77
	848.8	23.15	-3	20.15

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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	28.37	-9	19.37
	1880	29.50	-9	20.50
	1909.8	**30.09**	-9	21.09
GPRS1900 （1 Slot）	1850.2	28.41	-9	19.41
	1880	29.41	-9	20.41
	1909.8	30.02	-9	21.02
GPRS1900 （2 Slot）	1850.2	27.42	-6	**21.42**
	1880	27.38	-6	21.38
	1909.8	27.41	-6	21.41
GPRS1900 （3 Slot）	1850.2	25.42	-4.26	21.16
	1880	25.33	-4.26	21.07
	1909.8	25.28	-4.26	21.02
GPRS1900 （4 Slot）	1850.2	23.42	-3	20.42
	1880	23.69	-3	20.69
	1909.8	23.59	-3	20.59
EGPRS1900 （1 Slot）	1850.2	24.33	-9	15.33
	1880	25.03	-9	16.03
	1909.8	25.79	-9	16.79
EGPRS1900 （2 Slot）	1850.2	25.63	-6	19.63
	1880	25.48	-6	19.48
	1909.8	25.61	-6	19.61
EGPRS1900 （3 Slot）	1850.2	23.24	-4.26	18.98
	1880	23.15	-4.26	18.89
	1909.8	23.34	-4.26	19.08
EGPRS1900 （4 Slot）	1850.2	21.36	-3	18.36
	1880	21.05	-3	18.05
	1909.8	21.29	-3	18.29

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Mode	Frequency(MHz)	Avg. Burst Power(dBm)	Duty cycle Factor(dBm)	Frame Power(dBm)
Maximum Power <2>				
PCS1900	1850.2	27.41	-9	18.41
	1880	28.57	-9	19.57
	1909.8	28.40	-9	19.40
GPRS1900 （1 Slot）	1850.2	27.43	-9	18.43
	1880	28.43	-9	19.43
	1909.8	28.13	-9	19.13
GPRS1900 （2 Slot）	1850.2	26.44	-6	20.44
	1880	26.67	-6	20.67
	1909.8	27.10	-6	21.10
GPRS1900 （3 Slot）	1850.2	25.42	-4.26	21.16
	1880	25.00	-4.26	20.74
	1909.8	24.43	-4.26	20.17
GPRS1900 （4 Slot）	1850.2	22.74	-3	19.74
	1880	23.15	-3	20.15
	1909.8	23.45	-3	20.45

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	21.45
	1880	21.04
	1907.6	21.02
HSDPA Subtest 1	1852.4	20.24
	1880	**23.88**
	1907.6	20.80
HSDPA Subtest 2	1852.4	19.95
	1880	23.64
	1907.6	20.60
HSDPA Subtest 3	1852.4	19.85
	1880	23.43
	1907.6	20.43
HSDPA Subtest 4	1852.4	19.94
	1880	23.60
	1907.6	20.50
HSUPA Subtest 1	1852.4	18.05
	1880	21.11
	1907.6	17.95
HSUPA Subtest 2	1852.4	18.21
	1880	22.08
	1907.6	18.84
HSUPA Subtest 3	1852.4	20.97
	1880	21.52
	1907.6	18.36
HSUPA Subtest 4	1852.4	18.27
	1880	22.19
	1907.6	18.89
HSUPA Subtest 5	1852.4	20.32
	1880	20.01
	1907.6	20.99

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UMTS BAND V

Mode	Frequency (MHz)	Avg. Burst Power (dBm)
WCDMA 850 RMC	826.4	**22.11**
	836.4	19.94
	846.6	21.47
HSDPA Subtest 1	826.4	21.11
	836.4	18.99
	846.6	20.37
HSDPA Subtest 2	826.4	20.59
	836.4	18.47
	846.6	19.87
HSDPA Subtest 3	826.4	20.59
	836.4	18.48
	846.6	19.87
HSDPA Subtest 4	826.4	20.62
	836.4	18.47
	846.6	19.84
HSUPA Subtest 1	826.4	20.99
	836.4	18.71
	846.6	20.19
HSUPA Subtest 2	826.4	19.56
	836.4	20.31
	846.6	18.74
HSUPA Subtest 3	826.4	19.29
	836.4	20.05
	846.6	18.45
HSUPA Subtest 4	826.4	19.02
	836.4	20.90
	846.6	18.24
HSUPA Subtest 5	826.4	21.08
	836.4	20.99
	846.6	20.38

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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

LTE (TDD) Considerations

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

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

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

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

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

Table 4.2-2: Uplink-downlink configurations

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

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Calculated Duty Cycle

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

Note: Calculated Duty Cycle = Extended cyclic prefix in uplink x (Ts) x # of S + # of U
Example for Calculated Duty Cycle for Uplink-Downlink Configuration 0:
Calculated Duty Cycle = 5120 x [1/(15000 x 2048)] x 2 + 6 ms = 63.33%
where
Ts = 1/(15000 x 2048) seconds

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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	20.53	24.44	21.15
			3	0	20.49	24.33	20.99
			5	0	20.61	24.35	20.78
		3	0	0	20.62	24.53	21.05
			2	0	20.63	24.54	21.00
			3	0	20.54	24.48	20.92
		6	0	1	19.62	23.50	20.02
	16QAM	1	0	1	19.82	23.42	19.88
			3	1	20.55	23.26	19.85
			5	1	20.60	23.29	20.38
		3	0	1	19.30	23.33	19.71
			2	1	19.30	23.31	19.70
			3	1	19.46	23.25	19.62
		6	0	2	18.98	22.38	19.08
Bandwidth	**Modulation**	**RB size**	**RB offset**	**Target MPR**	**Channel 18615**	**Channel 18900**	**Channel 19185**
3MHz	QPSK	1	0	0	20.50	24.56	21.64
			7	0	20.60	24.36	21.22
			14	0	20.72	24.21	20.93
		8	0	1	19.60	23.57	20.29
			4	1	19.61	23.59	20.30
			7	1	19.76	23.44	19.85
		15	0	1	19.69	23.51	20.07
	16QAM	1	0	1	19.39	23.48	20.38
			7	1	19.51	23.28	19.96
			14	1	19.64	23.13	19.74
		8	0	2	18.79	22.70	19.38
			4	2	18.80	22.70	19.38
			7	2	18.93	22.56	19.05
		15	0	2	18.73	22.45	19.24

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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	20.54	24.69	22.13
			13	0	20.60	24.37	21.48
			24	0	20.84	24.35	20.94
		12	0	1	19.70	23.68	20.68
			6	1	19.70	23.68	20.70
			13	1	19.76	23.41	19.98
		25	0	1	19.62	23.56	20.43
	16QAM	1	0	1	18.99	23.95	20.84
			13	1	19.09	23.82	20.19
			24	1	19.21	23.26	19.90
		12	0	2	18.81	22.70	19.78
			6	2	18.75	22.70	19.80
			13	2	18.88	22.32	19.31
		25	0	2	18.94	22.51	19.60
Bandwidth	**Modulation**	**RB size**	**RB offset**	**Target MPR**	**Channel 18650**	**Channel 18900**	**Channel 19150**
10MHz	QPSK	1	0	0	24.61	**24.78**	24.72
			25	0	20.91	24.40	22.05
			49	0	21.35	23.81	20.91
		25	0	1	19.83	23.75	21.51
			13	1	19.84	23.77	21.43
			25	1	20.14	23.08	20.37
		50	0	1	19.95	23.38	20.92
	16QAM	1	0	1	19.72	23.91	22.34
			25	1	19.95	23.46	21.57
			49	1	20.44	22.88	20.46
		25	0	2	18.86	23.00	20.61
			13	2	18.86	23.03	20.71
			25	2	19.27	22.41	19.70
		50	0	2	19.09	22.65	20.22

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Conducted Power of LTE Band 2(dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel 18675	Channel 18900	Channel 19125
15MHz	QPSK	1	0	0	20.64	24.59	22.99
			38	0	21.18	24.38	22.55
			74	0	22.31	23.46	20.98
		36	0	1	20.25	23.37	21.33
			18	1	20.33	23.35	21.35
			39	1	20.33	23.35	21.35
		75	0	1	20.33	23.46	21.36
	16QAM	1	0	1	19.75	23.88	22.58
			38	1	20.20	23.67	22.05
			74	1	21.40	22.92	20.49
		36	0	2	20.33	23.35	21.35
			18	2	20.33	23.35	21.36
			39	2	20.33	23.35	21.36
		75	0	2	19.42	22.61	20.52
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel 18700	Channel 18900	Channel 19100
20MHz	QPSK	1	0	0	24.63	24.68	24.77
			50	0	21.59	24.60	22.67
			99	0	24.03	23.50	20.93
		50	0	1	19.89	23.72	22.14
			25	1	19.96	23.67	21.95
			50	1	21.55	22.95	21.24
		100	0	1	21.02	23.38	21.67
	16QAM	1	0	1	19.71	24.10	22.33
			50	1	20.60	24.05	22.01
			99	1	22.75	22.90	20.16
		50	0	2	19.10	22.94	21.23
			25	2	19.17	22.91	21.16
			50	2	20.83	21.99	20.32
		100	0	2	19.99	22.49	20.74

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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	16.26	20.67	25.41
			3	0	16.09	20.87	25.46
			5	0	16.04	20.91	25.46
		3	0	0	16.81	21.40	25.92
			2	0	16.81	21.47	25.91
			3	0	16.58	21.58	**26.18**
		6	0	1	15.64	20.45	25.17
	16QAM	1	0	1	16.17	19.92	24.67
			3	1	15.98	20.05	24.66
			5	1	15.90	20.11	24.76
		3	0	1	15.39	20.40	24.80
			2	1	15.50	20.40	24.80
			3	1	15.39	20.45	24.97
		6	0	2	15.05	19.60	24.08
Bandwidth	**Modulation**	**RB size**	**RB offset**	**Target MPR**	**Channel 19965**	**Channel 20175**	**Channel 20385**
3MHz	QPSK	1	0	0	16.22	20.67	25.16
			7	0	15.87	20.84	25.33
			14	0	15.50	21.09	25.49
		8	0	1	15.68	20.27	24.75
			4	1	15.68	20.27	24.86
			7	1	15.34	20.52	24.96
		15	0	1	15.52	20.41	24.97
	16QAM	1	0	1	15.43	19.26	24.33
			7	1	14.92	19.57	24.55
			14	1	14.53	20.11	24.71
		8	0	2	14.84	19.50	23.92
			4	2	14.81	19.50	23.92
			7	2	14.56	19.76	24.13
		15	0	2	14.67	19.44	23.93

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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	16.24	20.37	25.00
			13	0	15.64	20.89	25.38
			24	0	15.57	21.41	25.75
		12	0	1	15.64	20.20	24.53
			6	1	15.54	20.29	24.53
			13	1	15.17	20.68	24.95
		25	0	1	15.15	20.49	24.76
	16QAM	1	0	1	14.71	19.78	23.35
			13	1	13.99	20.26	23.95
			24	1	13.98	20.48	24.24
		12	0	2	14.63	19.34	23.48
			6	2	14.56	19.25	23.48
			13	2	14.16	19.74	23.90
		25	0	2	14.42	19.48	23.73
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel 20000	Channel 20175	Channel 20350
10MHz	QPSK	1	0	0	16.20	19.78	23.34
			25	0	15.66	20.87	24.73
			49	0	16.93	21.67	25.61
		25	0	1	15.34	20.00	23.49
			13	1	15.22	19.98	23.50
			25	1	15.79	20.91	24.77
		50	0	1	15.58	20.50	24.03
	16QAM	1	0	1	15.34	18.88	22.96
			25	1	14.48	19.94	23.85
			49	1	15.88	20.68	24.64
		25	0	2	14.24	19.12	22.66
			13	2	14.24	19.11	22.66
			25	2	14.79	20.10	23.81
		50	0	2	14.57	19.53	23.29

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Conducted Power of LTE Band 4(dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel 20025	Channel 20175	Channel 20325
15MHz	QPSK	1	0	0	16.15	19.30	22.38
			38	0	16.24	20.89	23.95
			74	0	18.79	22.03	25.47
		36	0	1	16.34	20.45	23.47
			18	1	16.33	20.42	23.47
			39	1	16.43	20.42	23.46
		75	0	1	16.42	20.42	23.46
	16QAM	1	0	1	15.29	18.54	22.03
			38	1	15.39	20.14	23.62
			74	1	17.80	21.19	24.73
		36	0	2	16.33	20.43	23.47
			18	2	16.41	20.42	23.47
			39	2	16.40	20.44	23.46
		75	0	2	15.51	19.57	22.53
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel 20050	Channel 20175	Channel 20300
20MHz	QPSK	1	0	0	21.73	21.91	21.51
			50	0	17.46	21.16	21.17
			99	0	20.34	21.79	21.38
		50	0	1	15.66	19.46	21.91
			25	1	15.55	19.45	21.82
			50	1	18.46	21.29	21.12
		100	0	1	17.12	20.42	21.01
	16QAM	1	0	1	14.90	18.21	20.83
			50	1	16.11	20.42	22.47
			99	1	18.92	21.91	24.68
		50	0	2	14.68	18.49	21.12
			25	2	14.68	18.61	21.07
			50	2	17.72	20.50	23.22
		100	0	2	16.38	19.63	22.16

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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	22.52	19.31	21.61
			3	0	22.33	19.64	21.74
			5	0	22.22	19.83	21.80
		3	0	0	22.56	19.57	21.81
			2	0	22.61	19.55	21.74
			3	0	22.32	19.87	21.87
		6	0	1	21.50	18.63	20.79
	16QAM	1	0	1	22.17	18.98	21.15
			3	1	21.97	19.27	21.31
			5	1	21.88	19.49	21.39
		3	0	1	21.33	18.40	20.47
			2	1	21.32	18.39	20.47
			3	1	21.13	18.68	20.65
		6	0	2	20.67	17.88	19.96
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel 20415	Channel 20525	Channel 20635
3MHz	QPSK	1	0	0	22.65	19.05	20.98
			7	0	22.15	19.56	21.40
			14	0	21.46	20.17	21.74
		8	0	1	21.53	18.28	20.16
			4	1	21.44	18.30	20.31
			7	1	20.81	18.97	20.69
		15	0	1	21.13	18.70	20.46
	16QAM	1	0	1	21.64	18.01	19.96
			7	1	21.03	18.61	20.37
			14	1	20.51	19.11	20.77
		8	0	2	20.60	17.58	19.23
			4	2	20.61	17.59	19.24
			7	2	19.97	18.19	19.81
		15	0	2	20.28	17.59	19.48

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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	**22.79**	19.05	20.33
			13	0	21.79	19.88	21.39
			24	0	20.57	21.04	22.01
		12	0	1	21.45	18.51	19.79
			6	1	21.46	18.39	19.80
			13	1	20.27	19.58	20.64
		25	0	1	20.86	19.01	20.22
	16QAM	1	0	1	21.21	17.97	18.72
			13	1	20.14	18.87	19.87
			24	1	19.09	19.96	20.53
		12	0	2	20.46	17.40	18.82
			6	2	20.44	17.41	18.81
			13	2	19.18	18.59	19.73
		25	0	2	19.92	18.07	19.40
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel 20450	Channel 20525	Channel 20600
10MHz	QPSK	1	0	0	22.68	22.70	22.60
			25	0	20.26	19.88	20.21
			49	0	18.76	22.19	21.87
		25	0	1	20.75	18.39	18.29
			13	1	20.75	18.38	18.26
			25	1	18.41	20.21	20.39
		50	0	1	19.79	19.18	19.40
	16QAM	1	0	1	21.55	20.34	17.17
			25	1	19.24	18.53	19.37
			49	1	17.79	20.93	21.01
		25	0	2	19.68	17.42	19.22
			13	2	19.68	19.43	19.23
			25	2	17.38	19.29	19.27
		50	0	2	18.80	18.40	18.39

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Conducted Power of LTE Band 12(dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel 23017	Channel 23095	Channel 23173
1.4MHz	QPSK	1	0	0	23.31	20.91	21.02
			3	0	23.21	20.48	20.91
			5	0	23.22	20.28	20.77
		3	0	0	23.34	20.83	20.91
			2	0	23.31	20.78	20.93
			3	0	23.21	20.40	20.77
		6	0	1	22.27	19.65	20.88
	16QAM	1	0	1	22.62	19.96	21.14
			3	1	22.44	19.61	21.08
			5	1	22.44	19.38	19.86
		3	0	1	22.33	19.65	20.82
			2	1	22.23	19.67	20.82
			3	1	22.12	19.30	20.71
		6	0	2	21.36	18.73	19.83
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel 23025	Channel 23095	Channel 23165
3MHz	QPSK	1	0	0	23.26	21.35	20.82
			7	0	23.16	20.36	20.15
			14	0	22.80	19.73	20.73
		8	0	1	22.26	20.02	20.50
			4	1	22.21	19.98	20.48
			7	1	22.04	19.16	21.97
		15	0	1	22.09	19.63	15.33
	16QAM	1	0	1	22.52	20.50	19.92
			7	1	22.34	19.56	19.27
			14	1	22.12	18.82	20.91
		8	0	2	21.28	18.88	20.50
			4	2	21.29	18.95	19.48
			7	2	21.18	18.17	20.11
		15	0	2	21.06	18.54	20.15

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Conducted Power of LTE Band 12(dBm)							
Bandwidth	**Modulation**	**RB size**	**RB offset**	**Target MPR**	**Channel 23035**	**Channel 23095**	**Channel 23155**
5MHz	QPSK	1	0	0	23.34	21.92	19.95
			13	0	22.91	20.50	20.54
			24	0	22.37	19.04	20.82
		12	0	1	22.20	20.30	19.35
			6	1	22.23	20.32	20.31
			13	1	21.72	18.89	20.23
		25	0	1	21.94	19.63	20.84
	16QAM	1	0	1	22.34	21.04	19.08
			13	1	21.91	19.63	20.68
			24	1	21.44	18.26	20.89
		12	0	2	21.23	19.36	20.42
			6	2	21.24	19.36	20.45
			13	2	20.67	19.95	20.27
		25	0	2	20.93	18.67	21.90
Bandwidth	**Modulation**	**RB size**	**RB offset**	**Target MPR**	**Channel 23060**	**Channel 23095**	**Channel 23130**
10MHz	QPSK	1	0	0	**23.57**	22.89	22.51
			25	0	22.25	20.38	18.16
			49	0	19.98	17.58	19.05
		25	0	1	22.09	20.88	19.00
			13	1	22.10	20.89	18.99
			25	1	20.42	18.29	20.13
		50	0	1	21.26	19.78	19.80
	16QAM	1	0	1	22.78	22.11	20.58
			25	1	21.43	19.60	17.09
			49	1	19.19	16.78	15.24
		25	0	2	21.07	19.96	18.07
			13	2	21.06	19.91	18.01
			25	2	19.44	20.41	20.08
		50	0	2	20.25	18.71	20.88

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Conducted Power of LTE Band 26A(dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel 26797	Channel 26915	Channel 27033
1.4MHz	QPSK	1	0	0	22.32	19.32	21.10
			2	0	22.12	19.60	21.22
			5	0	22.01	19.72	21.26
		3	0	0	22.23	19.43	21.21
			1	0	22.23	19.37	21.27
			3	0	22.08	19.63	21.25
		6	0	1	21.17	18.60	20.27
	16QAM	1	0	1	21.48	18.45	20.30
			2	1	21.34	18.83	20.56
			5	1	21.15	18.85	20.46
		3	0	1	21.21	18.41	20.16
			1	1	21.20	18.40	20.15
			3	1	21.03	18.65	20.43
		6	0	2	20.25	17.53	19.40
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel 26805	Channel 26915	Channel 27025
3MHz	QPSK	1	0	0	22.48	19.02	20.79
			8	0	21.83	19.59	21.26
			14	0	21.42	20.10	21.47
		8	0	1	21.25	18.27	19.87
			4	1	21.26	18.28	19.86
			7	1	20.64	18.87	20.26
		15	0	1	20.94	18.62	20.04
	16QAM	1	0	1	21.55	18.17	19.85
			8	1	21.07	18.78	20.34
			14	1	20.47	19.22	20.56
		8	0	2	20.22	17.31	18.94
			4	2	20.21	17.30	18.94
			7	2	19.69	17.93	19.36
		15	0	2	20.04	17.54	19.11

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Conducted Power of LTE Band 26A(dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel 26815	Channel 26915	Channel 27015
5MHz	QPSK	1	0	0	22.45	18.80	20.07
			12	0	21.47	19.79	20.90
			24	0	20.24	20.63	21.25
		12	0	1	21.12	18.12	19.39
			6	1	21.07	18.19	19.37
			13	1	19.84	19.17	20.16
		25	0	1	20.49	18.70	19.74
	16QAM	1	0	1	21.53	18.05	19.11
			12	1	20.55	19.01	19.94
			24	1	19.37	20.20	20.51
		12	0	2	20.14	17.19	18.40
			6	2	20.05	17.19	18.40
			13	2	18.85	18.25	19.13
		25	0	2	19.55	17.70	18.76
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel 26840	Channel 26915	Channel 26990
10MHz	QPSK	1	0	0	22.63	18.88	18.10
			24	0	20.16	19.58	20.68
			49	0	18.88	21.92	21.80
		25	0	1	20.38	17.98	17.96
			12	1	20.40	17.97	17.97
			25	1	18.23	19.87	19.77
		50	0	1	19.47	18.91	18.94
	16QAM	1	0	1	21.76	18.07	17.38
			24	1	19.20	18.83	19.28
			49	1	18.02	21.18	21.02
		25	0	2	19.41	16.99	16.94
			12	2	19.41	17.00	16.87
			25	2	17.29	18.94	18.83
		50	0	2	18.46	17.90	17.96

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Conducted Power of LTE Band 26A(dBm)							
Bandwidth	**Modulation**	**RB size**	**RB offset**	**Target MPR**	**Channel 26865**	**Channel 26915**	**Channel 26965**
15MHz	QPSK	1	0	0	22.94	22.94	22.24
			38	0	19.15	19.77	22.43
			74	0	21.18	23.33	**25.00**
		38	0	1	19.30	19.61	21.53
			18	1	19.29	19.55	21.58
			37	1	19.30	19.59	21.54
		75	0	1	19.29	19.53	21.56
	16QAM	1	0	1	21.94	19.25	18.16
			38	1	18.12	19.16	21.26
			74	1	20.31	22.58	24.24
		38	0	2	19.34	19.55	21.54
			18	2	19.31	19.53	21.53
			37	2	19.29	19.55	21.55
		75	0	2	18.28	18.59	20.61

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Conducted Power of LTE Band 26B(dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel 26697	Channel 26740	Channel 26783
1.4MHz	QPSK	1	0	0	24.65	23.71	22.85
			2	0	24.54	23.61	22.91
			5	0	24.37	23.47	22.61
		3	0	0	24.63	23.71	22.80
			1	0	24.75	23.73	22.71
			3	0	24.59	23.50	22.54
		6	0	1	23.68	22.66	21.66
	16QAM	1	0	1	23.86	22.88	21.71
			2	1	23.86	22.83	21.66
			5	1	23.59	22.62	21.39
		3	0	1	23.67	22.70	21.62
			1	1	23.64	22.70	21.67
			3	1	23.43	22.46	21.42
		6	0	2	22.64	21.60	20.72
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel 26705	Channel 26740	Channel 26775
3MHz	QPSK	1	0	0	24.86	23.95	23.44
			8	0	24.61	23.69	23.00
			14	0	24.35	23.37	22.62
		8	0	1	23.70	22.87	22.03
			4	1	23.69	22.90	22.02
			7	1	23.33	22.53	21.80
		15	0	1	23.50	22.77	21.93
	16QAM	1	0	1	23.94	23.08	22.17
			8	1	23.73	22.87	21.83
			14	1	23.36	22.54	21.44
		8	0	2	22.69	21.86	21.04
			4	2	22.71	21.86	21.05
			7	2	22.36	21.52	20.82
		15	0	2	22.49	21.71	20.79

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Conducted Power of LTE Band 26B(dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel 26715	Channel 26740	Channel 26765
5MHz	QPSK	1	0	0	24.84	24.34	23.68
			12	0	24.32	23.84	23.16
			24	0	23.87	23.28	22.63
		12	0	1	23.51	22.98	22.42
			6	1	23.51	22.95	22.45
			13	1	22.98	22.44	21.91
		25	0	1	23.33	22.75	22.15
	16QAM	1	0	1	23.89	23.55	22.73
			12	1	23.31	23.21	22.24
			24	1	22.90	22.63	21.73
		12	0	2	22.52	22.04	21.50
			6	2	22.53	22.03	21.47
			13	2	21.99	21.53	20.97
		25	0	2	22.32	21.77	21.21
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel 26740		
10MHz	QPSK	1	0	0	24.97		
			24	0	23.75		
			49	0	23.00		
		25	0	1	23.27		
			12	1	23.27		
			25	1	22.36		
		50	0	1	22.88		
	16QAM	1	0	1	24.20		
			24	1	22.88		
			49	1	22.09		
		25	0	2	22.30		
			12	2	22.27		
			25	2	21.37		
		50	0	2	21.87		

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Conducted Power of LTE Band 26B(dBm)					
Bandwidth	**Modulation**	**RB size**	**RB offset**	**Target MPR**	**Channel**
					26765
15MHz	QPSK	1	0	0	**25.52**
			38	0	23.51
			74	0	21.31
		38	0	1	22.27
			18	1	22.27
			37	1	22.34
		75	0	1	22.34
	16QAM	1	0	1	24.35
			38	1	22.42
			74	1	20.40
		38	0	2	22.30
			18	2	22.36
			37	2	22.32
		75	0	2	21.33

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Conducted Power of LTE Band 41(dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel 39675	Channel 40620	Channel 41565
5MHz	QPSK	1	0	0	20.42	20.70	22.70
			12	0	20.68	20.24	22.71
			24	0	20.83	18.60	22.43
		12	0	1	19.51	18.50	21.65
			6	1	19.49	18.48	21.62
			13	1	19.80	17.98	21.49
		25	0	1	19.66	18.23	21.58
	16QAM	1	0	1	19.74	20.06	21.90
			12	1	20.04	18.61	21.90
			24	1	20.21	18.00	21.70
		12	0	2	18.48	17.57	20.55
			6	2	18.47	17.51	20.58
			13	2	18.79	16.99	20.40
		25	0	2	18.69	17.28	20.58
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel 39700	Channel 40620	Channel 41540
10MHz	QPSK	1	0	0	21.61	20.48	22.90
			24	0	22.37	19.32	22.89
			49	0	23.09	18.62	22.48
		25	0	1	20.88	18.84	21.93
			12	1	20.88	18.86	21.92
			25	1	21.82	17.83	21.60
		50	0	1	21.40	18.43	21.74
	16QAM	1	0	1	20.87	19.32	22.12
			24	1	21.64	18.17	22.05
			49	1	22.40	17.46	21.67
		25	0	2	20.00	17.88	20.95
			12	2	19.97	17.89	20.94
			25	2	20.86	16.88	20.66
		50	0	2	20.37	17.45	20.75

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Conducted Power of LTE Band 41(dBm)							
Bandwidth	**Modulation**	**RB size**	**RB offset**	**Target MPR**	**Channel 39725**	**Channel 40620**	**Channel 41515**
15MHz	QPSK	1	0	0	21.44	21.38	22.94
			37	0	22.66	19.20	22.83
			74	0	24.14	18.59	22.39
		37	0	1	21.88	18.64	21.92
			19	1	21.91	18.62	21.94
			38	1	21.93	18.65	21.91
		75	0	1	21.91	18.65	21.91
	16QAM	1	0	1	20.80	20.43	22.16
			37	1	22.01	18.27	22.05
			74	1	23.45	17.59	21.58
		37	0	2	21.92	18.61	21.91
			19	2	21.90	18.64	21.89
			38	2	21.88	18.64	21.91
		75	0	2	20.96	17.62	20.89
Bandwidth	**Modulation**	**RB size**	**RB offset**	**Target MPR**	**Channel 39750**	**Channel 40620**	**Channel 41490**
20MHz	QPSK	1	0	0	24.39	24.63	24.11
			49	0	23.29	19.32	23.06
			99	0	**25.44**	18.64	22.34
		50	0	1	21.17	19.71	22.10
			25	1	21.21	19.76	22.10
			50	1	23.49	17.74	21.62
		100	0	1	22.60	18.92	21.89
	16QAM	1	0	1	20.47	20.85	22.20
			49	1	22.39	17.97	22.13
			99	1	24.53	17.28	21.38
		50	0	2	20.18	18.84	21.03
			25	2	20.24	18.81	21.08
			50	2	22.57	16.76	20.63
		100	0	2	21.67	17.92	20.84

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

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

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

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

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

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

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WIFI

Mode	Data Rate (Mbps)	Channel	Frequency(MHz)	Avg. Burst Power(dBm)
802.11b	1	01	2412	**15.10**
		06	2437	15.04
		11	2462	14.18
802.11g	6	01	2412	12.89
		06	2437	12.42
		11	2462	11.15
802.11n(20)	6.5	01	2412	11.39
		06	2437	10.84
		11	2462	10.17
802.11n(40)	13.5	03	2422	11.55
		06	2437	11.53
		09	2452	10.53

Bluetooth_V5.0(BR/EDR)

Modulation	Channel	Frequency(MHz)	Peak Power (dBm)
GFSK	0	2402	5.030
	39	2441	4.713
	78	2480	4.383
π /4-DQPSK	0	2402	5.166
	39	2441	4.925
	78	2480	5.131
8-DPSK	0	2402	5.395
	39	2441	5.560
	78	2480	**5.867**

Bluetooth_V5.0(BLE)

Modulation	Channel	Frequency(MHz)	Peak Power (dBm)
GFSK_1M	0	2402	**0.447**
	19	2440	-0.202
	39	2480	-1.112
GFSK_2M	0	2402	0.265
	19	2440	-0.408
	39	2480	-1.341

NFC

Modulation	Frequency(MHz)	Field Strength of Fundamental (dBuV/m@3m)	Max Output power (mW)	SAR test exclusion thresholds(mW)
ASK	13.56	61.30	0.000404576	442.9735094

1. Field Strength (dBuV/m@3m) = Field Strength (dBuV/m@30m) + 40*log(30/3).
2. Max Output Power (dBm) = Field Strength of Fundamental (dBuV/m@3m)-95.23
3. Max Output Power (mW) = $10^{(\text{Max power (dBm)}/10)}$

According to KDB447498 D01 V06 Chapter4.3.1 c) 2), SAR test exclusion thresholds is 442.9735094 mW,
Due to 0.000404576mW <442.9735094mW, NFC for SAR test is not required.

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5GHz WIFI

Mode	channel	Frequency	Power(dBm)							
			Data Rate(bps)							
			6M	9M	12M	18M	24M	36M	48M	54M
802.11a	36	5180	11.61	11.45	11.40	11.31	11.23	11.22	11.05	10.94
	40	5200	11.72	11.53	11.43	11.37	11.23	11.18	11.16	11.01
	44	5220	11.66	11.65	11.51	11.35	11.27	11.15	11.12	11.11
	48	5240	**12.82**	12.67	12.52	12.45	12.32	12.21	12.15	12.00
	149	5745	10.79	10.78	10.60	10.60	10.49	10.44	10.28	10.25
	157	5785	10.15	10.14	10.06	10.06	9.87	9.79	9.69	9.54
	165	5825	**10.98**	10.90	10.71	10.56	10.55	10.55	10.46	10.29
			MCS0	**MCS1**	**MCS2**	**MCS3**	**MCS4**	**MCS5**	**MCS6**	**MCS7**
802.11n (20)	36	5180	10.65	10.52	10.51	10.41	10.25	10.16	9.97	9.90
	40	5200	10.89	10.70	10.54	10.52	10.33	10.17	10.00	9.87
	44	5220	10.76	10.66	10.55	10.50	10.33	10.21	10.13	10.08
	48	5240	11.87	11.84	11.67	11.56	11.38	11.36	11.27	11.23
	149	5745	10.11	10.08	9.96	9.81	9.61	9.45	9.26	9.11
	157	5785	9.56	9.44	9.42	9.41	9.24	9.16	9.02	8.84
	165	5825	10.22	10.02	9.94	9.94	9.77	9.63	9.53	9.36
			MCS0	**MCS1**	**MCS2**	**MCS3**	**MCS4**	**MCS5**	**MCS6**	**MCS7**
802.11n (40)	38	5190	10.30	10.19	10.19	10.08	10.01	9.99	9.94	9.76
	46	5230	11.01	10.87	10.74	10.71	10.63	10.47	10.30	10.15
	151	5755	9.05	8.90	8.80	8.62	8.50	8.47	8.43	8.38
	159	5795	9.12	9.11	8.98	8.94	8.93	8.76	8.65	8.62
			MCS0	**MCS1**	**MCS2**	**MCS3**	**MCS4**	**MCS5**	**MCS6**	**MCS7**
802.11ac (20)	36	5180	10.69	10.55	10.47	10.40	10.38	10.31	10.29	10.18
	40	5200	11.93	11.74	11.62	11.45	11.32	11.24	11.18	11.15
	44	5220	11.90	11.78	11.71	11.58	11.45	11.41	11.25	11.14
	48	5240	11.88	11.78	11.77	11.67	11.48	11.39	11.29	11.27
	149	5745	10.08	9.94	9.75	9.64	9.58	9.42	9.36	9.23
	157	5785	9.60	9.57	9.45	9.25	9.21	9.04	9.03	9.02
	165	5825	10.36	10.31	10.18	10.17	10.10	10.03	9.85	9.68
			MCS0	**MCS1**	**MCS2**	**MCS3**	**MCS4**	**MCS5**	**MCS6**	**MCS7**
802.11ac (40)	38	5190	10.46	10.41	10.31	10.23	10.08	9.88	9.84	9.73
	46	5230	11.02	10.99	10.82	10.82	10.65	10.64	10.62	10.56
	151	5755	8.99	8.88	8.71	8.51	8.38	8.19	8.12	7.95
	159	5795	9.21	9.04	8.86	8.69	8.63	8.45	8.39	8.35
			MCS0	**MCS1**	**MCS2**	**MCS3**	**MCS4**	**MCS5**	**MCS6**	**MCS7**
802.11ac (80)	42	5210	9.19	9.00	8.86	8.74	8.58	8.50	8.44	8.41
	155	5775	7.69	7.53	7.48	7.29	7.11	6.92	6.83	6.65

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13. TEST RESULTS

13.1. SAR Test Results Summary

13.1.1. Test position and configuration

Head SAR was performed with the device configured in the positions according to IEEE 1528-2013, Body-worn and 4 Edges SAR was performed with the device 10mm from the phantom.

13.1.2. Operation Mode

1. Per KDB 447498 D01 v06 ,for each exposure position, if the highest 1-g SAR is ≤ 0.8 W/kg, testing for low and high channel is optional.
2. Per KDB 865664 D01 v01r04,for each frequency band, if the measured SAR is ≥0.8W/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 248227 D01v02r02,for 2.4GHz 802.11g/n SAR testing is not required when the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤1.2W/kg.
6. Per KDB 248227 D01 v02r02 Chapter 5.3.4, SAR measurement requirements for the remaining 802.11 transmission mode configurations that have not been tested in the initial test configuration are determined separately for each standalone and aggregated frequency band, in each exposure condition, according to the maximum output power specified for production units. The initial test position procedure is applied to next to the ear, UMPC mini-tablet and hotspot mode configurations. When the same maximum output power is specified for multiple transmission modes, the procedures in 5.3.2 are applied to determine the test configuration. Additional power measurements may be required to determine if SAR measurements are required for subsequent highest output power channels in a subsequent test configuration. The subsequent test configuration and SAR measurement procedures are described in the following.
   (1) When SAR test exclusion provisions of KDB Publication 447498 D01 are applicable and SAR measurement is not required for the initial test configuration, SAR is also not required for the next highest maximum output power transmission mode subsequent test configuration(s) in that frequency band or aggregated band and exposure configuration.
   (2) When the highest reported SAR for the initial test configuration (when applicable, include subsequent highest output channels), according to the initial test position or fixed exposure position requirements, is adjusted by the ratio of the subsequent test configuration to initial test configuration specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg, SAR is not required for that subsequent test configuration.

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7. Per KDB 941225 D06 V02r01, When the same wireless mode transmission configurations for voice and data are required for SAR measurements, the more conservative configuration with a smaller separation distance should be tested for the overlapping SAR configurations.
8. Maximum Scaling SAR in order to calculate the Maximum SAR values to test under the standard Peak Power, Calculation method is as follows:
   Maximum Scaling SAR =tested SAR (Max.) ×[maximum turn-up power (mw)/ maximum measurement output power(mw)]
9. Proximity sensor, just for avoiding the wrong operation in the phone screen when call, and has no influence on output power or SAR result
10. Per KDB 941225 D05v02r05, start with the largest channel bandwidth and measure SAR for QPSK with 1RB allocation using the RB offset and required test channel combination with highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel.
11. Per KDB 941125 D05v02r05, 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure.
12. Per KDB 941125 D05v02r05. For QPSK with 100% RB allocation. SAR is not required when the highest maximum output power for 100% RB allocation is less than the highest maximum output power in 50% and 1RB allocation and the highest reported SAR is >1.45 W/kg, the remaining required test channels must also be tested.
13. Per KDB 941125 D05v02r05. 16QAM output power for each RB allocation configuration is not 1/2 dB higher than the same configuration in QPSK and the reported SAR for the QPSK configuration is ≤1.45W/kg, Per KDB 941225 D05v02r05, 16QAM SAR testing is not required.
14. Per KDB 941125 D05v02r05. Smaller bandwidth output power for each RB allocation configuration is >not 1/2 dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is ≤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 (%): 61.3					
Product: 4G Smart 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	-0.02	0.279	33.50	33.05	0.309	1.6
Left Tilt	voice	190	836.6	0.24	0.178	33.50	33.05	0.197	1.6
Right Cheek	voice	190	836.6	-0.18	**0.313**	33.50	33.05	**0.347**	1.6
Right Tilt	voice	190	836.6	-0.21	0.174	33.50	33.05	0.193	1.6
Body back	voice	190	836.6	-0.31	**0.586**	33.50	33.05	**0.650**	1.6
Body front	voice	190	836.6	0.26	0.200	33.50	33.05	0.222	1.6
Body back	GPRS-2 slot	190	836.6	-0.33	**0.471**	30.70	30.22	**0.526**	1.6
Body front	GPRS-2 slot	190	836.6	0.26	0.178	30.70	30.22	0.199	1.6
Edge 2(Right)	GPRS-2 slot	190	836.6	-0.02	0.311	30.70	30.22	0.347	1.6
Edge 3(Bottom)	GPRS-2 slot	190	836.6	-0.09	0.198	30.70	30.22	0.221	1.6
Edge 4(Left)	GPRS-2 slot	190	836.6	0.25	0.156	30.70	30.22	0.174	1.6

Note:
· When the 1-g Reported SAR is ≤ 0.8 W/kg, testing for low and high channel is optional. Refer to KDB 447498.
·The test separation for body back, body front and 4 Edges is 10mm of all above table.

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SAR MEASUREMENT									
Depth of Liquid (cm):>15				Relative Humidity (%): 58.7					
Product: 4G Smart 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	-0.23	0.171	30.10	29.50	0.196	1.6
Left Tilt	voice	661	1880.0	0.26	0.193	30.10	29.50	0.222	1.6
Right Cheek	voice	661	1880.0	-0.23	0.382	30.10	29.50	0.439	1.6
Right Tilt	voice	661	1880.0	-0.15	**0.453**	30.10	29.50	**0.520**	1.6
Body back	voice	661	1880.0	-0.05	**0.261**	30.10	29.50	**0.300**	1.6
Body front	voice	661	1880.0	0.22	0.088	30.10	29.50	0.101	1.6
Body back	GPRS-2 slot	661	1880	-0.20	0.283	27.50	27.38	0.291	1.6
Body front	GPRS-2 slot	661	1880.0	0.18	0.050	27.50	27.38	0.051	1.6
Edge 1 (Top)	GPRS-2 slot	661	1880.0	-0.11	**0.375**	27.50	27.38	**0.386**	1.6
Edge 4(Left)	GPRS-2 slot	661	1880.0	0.24	0.099	27.50	27.38	0.102	1.6

Note:
· When the 1-g Reported SAR is ≤ 0.8 W/kg, testing for low and high channel is optional. Refer to KDB 447498.
·The test separation for body back, body front and 4 Edges is 10mm of all above table.

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SAR MEASUREMENT									
Depth of Liquid (cm):>15				Relative Humidity (%): 58.7					
Product: 4G Smart 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	-0.17	0.353	21.50	21.04	0.392	1.6
Left Tilt	RMC 12.2kbps	9400	1880	0.13	0.421	21.50	21.04	0.468	1.6
Right Cheek	RMC 12.2kbps	9400	1880	0.17	0.774	21.50	21.45	0.783	1.6
Right Cheek	RMC 12.2kbps	9262	1852.4	-0.10	**0.779**	21.50	21.04	**0.866**	1.6
Right Cheek	RMC 12.2kbps	9400	1880	0.27	0.776	21.50	21.02	0.867	1.6
Right Tilt	RMC 12.2kbps	9538	1907.6	-0.02	0.691	21.50	21.04	0.768	1.6
Body back	RMC 12.2kbps	9400	1880	0.16	0.690	21.50	21.04	0.767	1.6
Body front	RMC 12.2kbps	9400	1880	0.09	0.228	21.50	21.04	0.253	1.6
Edge 1 (Top)	RMC 12.2kbps	9400	1880	-0.13	**0.700**	21.50	21.04	**0.778**	1.6
Edge 4(Left)	RMC 12.2kbps	9400	1880	0.04	0.223	21.50	21.04	0.248	1.6

Note:
· When the 1-g Reported SAR is ≤ 0.8 W/kg, testing for low and high channel is optional. Refer to KDB 447498.
·The test separation for body back, body front and 4 Edges is 10mm of all above table.

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SAR MEASUREMENT									
Depth of Liquid (cm):>15				Relative Humidity (%): 61.3					
Product: 4G Smart 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	4183	836.4	-0.14	0.253	22.20	19.94	0.426	1.6
Left Tilt	RMC 12.2kbps	4183	836.4	0.22	0.174	22.20	19.94	0.293	1.6
Right Cheek	RMC 12.2kbps	4183	836.4	0.28	**0.294**	22.20	19.94	**0.495**	1.6
Right Tilt	RMC 12.2kbps	4183	836.4	-0.01	0.180	22.20	19.94	0.303	1.6
Body back	RMC 12.2kbps	4183	836.4	0.17	**0.431**	22.20	19.94	**0.725**	1.6
Body front	RMC 12.2kbps	4183	836.4	-0.12	0.221	22.20	19.94	0.372	1.6
Edge 2(Right)	RMC 12.2kbps	4183	836.4	0.22	0.305	22.20	19.94	0.513	1.6
Edge 3(Bottom)	RMC 12.2kbps	4183	836.4	-0.04	0.207	22.20	19.94	0.348	1.6
Edge 4(Left)	RMC 12.2kbps	4183	836.4	0.31	0.131	22.20	19.94	0.220	1.6

Note:
· When the 1-g Reported SAR is ≤ 0.8 W/kg, testing for low and high channel is optional. Refer to KDB 447498.
·The test separation for body back, body front and 4 Edges is 10mm of all above table.

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SAR MEASUREMENT													
Depth of Liquid (cm):>15						Relative Humidity (%): 58.7							
Product: 4G Smart 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								
20	QPSK	Left Cheek	1	0	18900	1880	-0.30	0.459	24.80	24.68	0.472	1.6
		Left Tilt	1	0	18900	1880	0.18	0.547	24.80	24.68	0.562	1.6
		Right Cheek	1	0	18900	1880	-0.17	0.690	24.80	24.68	0.709	1.6
		Right Tilt	1	0	18700	1860	-0.18	**0.945**	24.80	24.63	**0.983**	1.6
		Right Tilt	1	0	18900	1880	-0.23	0.925	24.80	24.68	0.951	1.6
		Right Tilt	1	0	19100	1900	0.17	0.944	24.80	24.77	0.951	1.6
		Body back	1	0	18900	1880	-0.24	0.561	24.80	24.68	0.577	1.6
		Body front	1	0	18900	1880	0.25	0.201	24.80	24.68	0.207	1.6
		Edge 1 (Top)	1	0	18700	1860	0.19	**0.784**	24.80	24.63	**0.815**	1.6
		Edge 1 (Top)	1	0	18900	1880	-0.25	0.780	24.80	24.68	0.802	1.6
		Edge 1 (Top)	1	0	19100	1900	-0.14	0.784	24.80	24.77	0.789	1.6
		Edge 4(Left)	1	0	18900	1880	0.09	0.224	24.80	24.68	0.230	1.6

Note:
· When the 1-g Reported SAR is ≤ 0.8 W/kg, testing for low and high channel is optional. Refer to KDB 447498.
·The test separation for body back, body front and 4 Edges is 10mm of all above table.

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SAR MEASUREMENT													
Depth of Liquid (cm):>15						Relative Humidity (%): 52.9							
Product: 4G Smart 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**								
20	**QPSK**	Left Cheek	1	0	20175	1732.5	-0.05	0.338	22.00	21.91	0.345	1.6
		Left Tilt	1	0	20175	1732.5	0.07	0.363	22.00	21.91	0.371	1.6
		Right Cheek	1	0	20175	1732.5	-0.06	**0.651**	22.00	21.91	**0.665**	1.6
		Right Tilt	1	0	20175	1732.5	-0.23	0.451	22.00	21.91	0.460	1.6
		Body back	1	0	20175	1732.5	0.19	0.293	22.00	21.91	0.299	1.6
		Body front	1	0	20175	1732.5	-0.20	0.235	22.00	21.91	0.240	1.6
		Edge 1 (Top)	1	0	20175	1732.5	-0.06	**0.336**	22.00	21.91	**0.343**	1.6
		Edge 4(Left)	1	0	20175	1732.5	0.12	0.263	22.00	21.91	0.269	1.6

Note:
· When the 1-g Reported SAR is ≤ 0.8 W/kg, testing for low and high channel is optional. Refer to KDB 447498.
·The test separation for body back, body front and 4 Edges is 10mm of all above table.

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SAR MEASUREMENT													
Depth of Liquid (cm):>15					Relative Humidity (%): 61.3								
Product: 4G Smart 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	20525	836.5	-0.16	0.303	22.80	22.70	0.310	1.6
		Left Tilt	1	0	20525	836.5	0.10	0.197	22.80	22.70	0.202	1.6
		Right Cheek	1	0	20525	836.5	-0.29	**0.343**	22.80	22.70	**0.351**	1.6
		Right Tilt	1	0	20525	836.5	-0.28	0.198	22.80	22.70	0.203	1.6
		Body back	1	0	20525	836.5	0.08	**0.572**	22.80	22.70	**0.585**	1.6
		Body front	1	0	20525	836.5	-0.07	0.241	22.80	22.70	0.247	1.6
		Edge 2(Right)	1	0	20525	836.5	0.23	0.386	22.80	22.70	0.395	1.6
		Edge 3(Bottom)	1	0	20525	836.5	-0.20	0.216	22.80	22.70	0.221	1.6
		Edge 4(Left)	1	0	20525	836.5	-0.06	0.150	22.80	22.70	0.153	1.6

Note:
· When the 1-g Reported SAR is ≤ 0.8 W/kg, testing for low and high channel is optional. Refer to KDB 447498.
·The test separation for body back, body front and 4 Edges is 10mm of all above table.

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SAR MEASUREMENT													
Depth of Liquid (cm):>15						Relative Humidity (%): 54.2							
Product: 4G Smart Phone													
Test Mode: LTE Band 12													
BM MHz	**MOD**	**Position**	**Test Mode**		**Ch.**	**Freq. (MHz)**	**Power Drift (<±5%)**	**SAR (1g) (W/kg)**	**Max. Tuneup Power (dBm)**	**Meas. output Power (dBm)**	**Scaled SAR (W/kg)**	**Limit (W/kg)**	
			UL RB Allocation	**UL RB START**									
10	**QPSK**	Left Cheek	1	0	23095	707.5	-0.24	0.134	23.60	22.89	0.158	1.6	
		Left Tilt	1	0	23095	707.5	0.18	0.078	23.60	22.89	0.092	1.6	
		Right Cheek	1	0	23095	707.5	-0.10	**0.162**	23.60	22.89	**0.191**	1.6	
		Right Tilt	1	0	23095	707.5	-0.22	0.093	23.60	22.89	0.110	1.6	
		Body back	1	0	23095	707.5	0.11	**0.245**	23.60	22.89	**0.289**	1.6	
		Body front	1	0	23095	707.5	-0.20	0.123	23.60	22.89	0.145	1.6	
		Edge 2(Right)	1	0	23095	707.5	-0.01	0.133	23.60	22.89	0.157	1.6	
		Edge 3(Bottom)	1	0	23095	707.5	0.06	0.051	23.60	22.89	0.060	1.6	
		Edge 4(Left)	1	0	23095	707.5	-0.19	0.054	23.60	22.89	0.064	1.6	

Note:
· When the 1-g Reported SAR is ≤ 0.8 W/kg, testing for low and high channel is optional. Refer to KDB 447498.
·The test separation for body back, body front and 4 Edges is 10mm of all above table.

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SAR MEASUREMENT													
Depth of Liquid (cm):>15					Relative Humidity (%): 61.3								
Product: LTE smartphone													
Test Mode: LTE Band 26a													
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**								
15	**QPSK**	Left Cheek	1	0	26915	836.5	-0.24	0.288	23.50	22.94	0.328	1.6
		Left Tilt	1	0	26915	836.5	0.05	0.206	23.50	22.94	0.234	1.6
		Right Cheek	1	0	26915	836.5	-0.06	**0.325**	23.50	22.94	**0.370**	1.6
		Right Tilt	1	0	26915	836.5	-0.28	0.185	23.50	22.94	0.210	1.6
		Body back	1	0	26915	836.5	-0.31	**0.553**	23.50	22.94	**0.629**	1.6
		Body front	1	0	26915	836.5	0.13	0.214	23.50	22.94	0.243	1.6
		Edge 2(Right)	1	0	26915	836.5	0.09	0.272	23.50	22.94	0.309	1.6
		Edge 3(Bottom)	1	0	26915	836.5	-0.06	0.182	23.50	22.94	0.207	1.6
		Edge 4(Left)	1	0	26915	836.5	0.12	0.139	23.50	22.94	0.158	1.6

Note:
· When the 1-g Reported SAR is ≤ 0.8 W/kg, testing for low and high channel is optional. Refer to KDB 447498.
·The test separation for body back, body front and 4 Edges is 10mm of all above table.

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SAR MEASUREMENT													
Depth of Liquid (cm):>15					Relative Humidity (%): 61.3								
Product: LTE smartphone													
Test Mode: LTE Band 26b													
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**								
15	**QPSK**	Left Cheek	1	0	26765	821.5	-0.10	0.227	25.60	25.52	0.231	1.6
		Left Tilt	1	0	26915	821.5	0.19	0.148	25.60	25.52	0.151	1.6
		Right Cheek	1	0	26915	821.5	0.12	**0.263**	25.60	25.52	**0.268**	1.6
		Right Tilt	1	0	26915	821.5	-0.01	0.146	25.60	25.52	0.149	1.6
		Body back	1	0	26915	821.5	-0.23	**0.438**	25.60	25.52	**0.446**	1.6
		Body front	1	0	26915	821.5	-0.27	0.189	25.60	25.52	0.193	1.6
		Edge 2(Right)	1	0	26915	821.5	0.20	0.279	25.60	25.52	0.284	1.6
		Edge 3(Bottom)	1	0	26915	821.5	-0.11	0.143	25.60	25.52	0.146	1.6
		Edge 4(Left)	1	0	26915	821.5	0.22	0.131	25.60	25.52	0.133	1.6

Note:
· When the 1-g Reported SAR is ≤ 0.8 W/kg, testing for low and high channel is optional. Refer to KDB 447498.
·The test separation for body back, body front and 4 Edges is 10mm of all above table.

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SAR MEASUREMENT													
Depth of Liquid (cm):>15						Relative Humidity (%): 54.3							
Product: 4G Smart Phone													
Test Mode: LTE Band 41													
BW MHz	**MOD**	**Position**	**Test Mode**		**Ch.**	**Freq. (MHz)**	**Power Drift (<±5%)**	**SAR (1g) (W/kg)**	**Max. Tuneup Power (dBm)**	**Meas. output Power (dBm)**	**Scaled SAR (W/kg)**	**Limit (W/kg)**
			UL RB Allocation	**UL RB START**								
20	**QPSK**	Left Cheek	1	0	40620	2593	-0.20	**0.054**	25.50	24.63	**0.066**	1.6
		Left Tilt	1	0	40620	2593	0.17	0.021	25.50	24.63	0.026	1.6
		Right Cheek	1	0	40620	2593	-0.16	0.039	25.50	24.63	0.048	1.6
		Right Tilt	1	0	40620	2593	-0.14	0.043	25.50	24.63	0.053	1.6
		Body back	1	0	40620	2593	-0.28	**0.258**	25.50	24.63	**0.315**	1.6
		Body front	1	0	40620	2593	0.24	0.086	25.50	24.63	0.105	1.6
		Edge 2(Right)	1	0	40620	2593	-0.03	0.122	25.50	24.63	0.149	1.6
		Edge 3(Bottom)	1	0	40620	2593	0.04	0.110	25.50	24.63	0.134	1.6
		Edge 4(Left)	1	0	40620	2593	-0.27	0.046	25.50	24.63	0.056	1.6

Note:
· When the 1-g Reported SAR is ≤ 0.8 W/kg, testing for low and high channel is optional. Refer to KDB 447498.
·The test separation for body back, body front and 4 Edges is 10mm of all above table

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SAR MEASUREMENT									
Depth of Liquid (cm):>15				Relative Humidity (%): 61.2					
Product: 4G Smart Phone									
Test Mode:802.11b									
Position	**Mode**	**Ch.**	**Fr. (MHz)**	**Power Drift (<±5%)**	**SAR (1g) (W/kg)**	**Max. Tune-up Power (dBm)**	**Meas. output Power (dBm)**	**Scaled SAR (W/kg)**	**Limit (W/kg)**
Left Cheek	DTS	6	2437	-0.07	**0.494**	15.10	15.04	**0.501**	1.6
Left Tilt	DTS	6	2437	0.23	0.452	15.10	15.04	0.458	1.6
Right Cheek	DTS	6	2437	0.13	0.253	15.10	15.04	0.257	1.6
Right Tilt	DTS	6	2437	-0.19	0.258	15.10	15.04	0.262	1.6
Body back	DTS	6	2437	-0.05	0.339	15.10	15.04	0.344	1.6
Body front	DTS	6	2437	0.33	**0.349**	15.10	15.04	**0.354**	1.6
Edge 1 (Top)	DTS	6	2437	-0.09	0.280	15.10	15.04	0.284	1.6
Edge 2(Right)	DTS	6	2437	0.20	0.278	15.10	15.04	0.282	1.6

Note:
- According to KDB248227, SAR is not required for 802.11n HT20/HT40 channels when the maximum average output power is less than 1/4 dB higher than that measured on the corresponding 802.11a/b channels.
- All of above “DTS” means data transmitters.
- The test separation for body back, body front and 4 Edges is 10mm of all above table.

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SAR MEASUREMENT								
Depth of Liquid (cm):>15					Relative Humidity (%): 54.2			
Product: 4G Smart Phone								
Test Mode: 5.2GHz WIFI-802.11a								
Position	**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	40	5200	-0.09	0.604	12.90	11.72	0.793	1.6
Left Tilt	40	5200	0.22	**0.605**	12.90	11.72	**0.794**	1.6
Right Cheek	40	5200	-0.10	0.461	12.90	11.72	0.605	1.6
Right Tilt	40	5200	-0.04	0.332	12.90	11.72	0.436	1.6
Body back	40	5200	0.29	0.138	12.90	11.72	0.181	1.6
Body front	40	5200	-0.33	0.287	12.90	11.72	0.377	1.6
Edge 1 (Top)	40	5200	-0.10	**0.474**	12.90	11.72	**0.622**	1.6
Edge 2(Right)	40	5200	0.20	0.120	12.90	11.72	0.157	1.6

Note:
· When the 1-g Reported SAR is ≤ 0.8 W/kg, testing for low and high channel is optional. Refer to KDB 447498.
·The test separation for body back, body front and 4 Edges is 10mm of all above table

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SAR MEASUREMENT								
Depth of Liquid (cm):>15					Relative Humidity (%): 56.8			
Product: 4G Smart Phone								
Test Mode: 5.8GHz WIFI-802.11a								
Position	**Ch.**	**Fr. (MHz)**	**Power Drift (<±5%)**	**SAR (1g) (W/kg)**	**Max. Tune-up Power (dBm)**	**Meas. output Power (dBm)**	**Scaled SAR (W/kg)**	**Limit (W/kg)**
Left Cheek	157	5785	-0.26	0.366	11.00	10.15	0.445	1.6
Left Tilt	157	5785	0.10	**0.452**	11.00	10.15	**0.550**	1.6
Right Cheek	157	5785	-0.20	0.291	11.00	10.15	0.354	1.6
Right Tilt	157	5785	-0.05	0.411	11.00	10.15	0.500	1.6
Body back	157	5785	0.28	0.166	11.00	10.15	0.202	1.6
Body front	157	5785	-0.15	0.295	11.00	10.15	0.359	1.6
Edge 1 (Top)	157	5785	-0.20	**0.562**	11.00	10.15	**0.683**	1.6
Edge 2(Right)	157	5785	0.02	0.121	11.00	10.15	0.147	1.6

Note:
· When the 1-g Reported SAR is ≤ 0.8 W/kg, testing for low and high channel is optional. Refer to KDB 447498.
·The test separation for body back, body front and 4 Edges is 10mm of all above table

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Repeated SAR											
Product: 4G Smart Phone											
Test Mode: LTE Band 2											
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**									
Right Tilt	1	0	18700	1860	0.12	0.986	--	--	--	--	1.6

The second repeated SAR judge reference									
Product: 4G Smart Phone									
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	Right Tilt	1	0	18700	1860	0.945	0.986	1.043	＜1.2

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Simultaneous Multi-band Transmission Evaluation:

Application Simultaneous Transmission information:

NO	Simultaneous state	Portable Handset		
		Head	Body-worn	Hotspot
1	GSM(voice)+ WLAN 2.4GHz/ 5GHz (data)	Yes	Yes	-
2	GSM(voice)+ Bluetooth(data)	Yes	Yes	-
3	GSM (Data) + WLAN 2.4GHz/ 5GHz (data)	-	Yes	Yes
4	GSM (Data) + Bluetooth(data)	-	Yes	Yes
5	WCDMA+ WLAN 2.4GHz/ 5GHz (data)	Yes	Yes	Yes
6	WCDMA+ Bluetooth(data)	Yes	Yes	Yes
7	LTE + WLAN 2.4GHz/ 5GHz (data)	Yes	Yes	Yes
8	LTE + Bluetooth(data)	Yes	Yes	Yes

NOTE:

1. WIFI and BT share the same antenna, and cannot transmit simultaneously.
2. Simultaneous with every transmitter must be the same test position.
3. KDB 447498 D01, BT SAR is excluded as below table.
4. KDB 447498 D01, for handsets the test separation distance is determined by the smallest distance between the outer surface of the device and the user; which is 0mm for head SAR and 10mm for body-worn SAR.
5. According to KDB 447498 D01 4.3.1, Standalone SAR test exclusion is as follow:
   For 100 MHz to 6 GHz and test separation distances ⩽ 50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:
   [(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.
6. If the test separation distance is <5mm, 5mm is used for excluded SAR calculation.
7. According to KDB 447498 D01 4.3.2, simultaneous transmission SAR test exclusion is as follow:
   (1) Simultaneous transmission SAR test exclusion is determined for each operating configuration and exposure condition according to the reported standalone SAR of each applicable simultaneous transmitting antenna.
   (2) Any transmitters and antennas should be considered when calculating simultaneous mode.
   (3) For mobile phone and PC, it's the sum of all transmitters and antennas at the same mode with same position in each applicable exposure condition
   (4)When the standalone SAR test exclusion of section 4.3.2 is applied to an antenna that transmits simultaneously with other antennas, the standalone SAR must be estimated according to the following to det
   (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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8. When the sum of SAR is larger than the limit, SAR test exclusion is determined by the SAR to peak location separation ratio. The simultaneous transmitting antennas in each operating mode and exposure condition combination must be considered one pair at a time to determine the SAR to peak location separation ratio to qualify for test exclusion. The ratio is determined by (SAR1 + SAR2)1.5/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	6	3.981	0	0.167
	Body	6	3.981	10	0.084

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RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		GSM 850	2.4GHz Wi-Fi DTS Band	Bluetooth		
Head (voice)	Left Touch	0.309	0.501		0.810	No
	Left Tilt	0.197	0.458		0.655	No
	Right Touch	0.347	0.257		0.604	No
	Right Tilt	0.193	0.262		0.455	No
Head (voice)	Left Touch	0.309		0.167	0.476	No
	Left Tilt	0.197		0.167	0.364	No
	Right Touch	0.347		0.167	0.514	No
	Right Tilt	0.193		0.167	0.360	No
Body-worn (voice)	Rear	0.650	0.344		0.994	No
		0.650		0.084	0.734	No
	Front	0.222	0.354		0.576	No
		0.222		0.084	0.306	No
Body-worn (Data)	Rear	0.526		0.084	0.610	No
		0.526	0.344		0.870	No
	Front	0.199		0.084	0.283	No
		0.199	0.354		0.553	No
Body-worn (Hotspot)	Edge 2	0.347	0.282		0.629	No
	Edge 2	0.347		0.084	0.431	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		GSM 850	5.2GHz Wi-Fi DTS Band	5.8GHz Wi-Fi DTS Band		
Head (voice)	Left Touch	0.309	0.793		1.102	No
	Left Tilt	0.197	0.794		0.991	No
	Right Touch	0.347	0.605		0.952	No
	Right Tilt	0.193	0.436		0.629	No
Head (voice)	Left Touch	0.309		0.445	0.754	No
	Left Tilt	0.197		0.550	0.747	No
	Right Touch	0.347		0.354	0.701	No
	Right Tilt	0.193		0.500	0.693	No
Body-worn (voice)	Rear	0.650	0.181		0.831	No
		0.650		0.202	0.852	No
	Front	0.222	0.377		0.599	No
		0.222		0.359	0.581	No
Body-worn (Data)	Rear	0.526		0.202	0.728	No
		0.526	0.181		0.707	No
	Front	0.199		0.359	0.558	No
		0.199	0.377		0.576	No
Body-worn (Hotspot)	Edge 2	0.347	0.622		0.969	No
	Edge 2	0.347		0.683	1.030	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 PCS 1900 &Wi-Fi & BT:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		PCS 1900	2.4GHz Wi-Fi DTS Band	Bluetooth		
Head (voice)	Left Touch	0.196	0.501		0.697	No
	Left Tilt	0.222	0.458		0.680	No
	Right Touch	0.439	0.257		0.696	No
	Right Tilt	0.520	0.262		0.782	No
Head (voice)	Left Touch	0.196		0.167	0.363	No
	Left Tilt	0.222		0.167	0.389	No
	Right Touch	0.439		0.167	0.606	No
	Right Tilt	0.520		0.167	0.687	No
Body-worn (voice)	Rear	0.300	0.344		0.644	No
		0.300		0.084	0.384	No
	Front	0.101	0.354		0.455	No
		0.101		0.084	0.185	No
Body-worn (Data)	Rear	0.291		0.084	0.375	No
		0.291	0.344		0.635	No
	Front	0.051		0.084	0.135	No
		0.051	0.354		0.405	No
Body-worn (Hotspot)	Edge 1	0.386	0.284		0.670	No
	Edge 1	0.386		0.084	0.470	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		PCS 1900	5.2GHz Wi-Fi DTS Band	5.8GHz Wi-Fi DTS Band		
Head (voice)	Left Touch	0.196	0.793		0.989	No
	Left Tilt	0.222	0.794		1.016	No
	Right Touch	0.439	0.605		1.044	No
	Right Tilt	0.520	0.436		0.956	No
Head (voice)	Left Touch	0.196		0.445	0.641	No
	Left Tilt	0.222		0.550	0.772	No
	Right Touch	0.439		0.354	0.793	No
	Right Tilt	0.520		0.500	1.020	No
Body-worn (voice)	Rear	0.300	0.181		0.481	No
		0.300		0.202	0.502	No
	Front	0.101	0.377		0.478	No
		0.101		0.359	0.460	No
Body-worn (Data)	Rear	0.291		0.202	0.493	No
		0.291	0.181		0.472	No
	Front	0.051		0.359	0.410	No
		0.051	0.377		0.428	No
Body-worn (Hotspot)	Edge 1	0.386	0.622		1.008	No
	Edge 1	0.386		0.683	1.069	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 &Wi-Fi & BT:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		WCDMA Band II	2.4GHz Wi-Fi DTS Band	Bluetooth		
Head	Left Touch	0.392	0.501		0.893	No
	Left Tilt	0.468	0.458		0.926	No
	Right Touch	0.866	0.257		1.123	No
	Right Tilt	0.768	0.262		1.030	No
Head	Left Touch	0.392		0.167	0.559	No
	Left Tilt	0.468		0.167	0.635	No
	Right Touch	0.866		0.167	1.033	No
	Right Tilt	0.768		0.167	0.935	No
Body-worn	Rear	0.767	0.344		1.111	No
	Front	0.253	0.354		0.607	No
	Edge 1	0.863	0.284		1.147	No
	Rear	0.767		0.084	0.851	No
	Front	0.253		0.084	0.337	No
	Edge 1	0.778		0.084	0.862	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		WCDMA Band II	5.2GHz Wi-Fi DTS Band	5.8GHz Wi-Fi DTS Band		
Head	Left Touch	0.392	0.793		1.185	No
	Left Tilt	0.468	0.794		1.262	No
	Right Touch	0.866	0.605		1.471	No
	Right Tilt	0.768	0.436		1.204	No
Head	Left Touch	0.392		0.445	0.837	No
	Left Tilt	0.468		0.550	1.018	No
	Right Touch	0.866		0.354	1.220	No
	Right Tilt	0.768		0.500	1.268	No
Body-worn	Rear	0.767	0.181		0.948	No
	Front	0.253	0.377		0.630	No
	Edge 1	0.863	0.622		1.485	No
	Rear	0.767		0.202	0.969	No
	Front	0.253		0.359	0.612	No
	Edge 1	0.778		0.683	1.461	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 &Wi-Fi & BT:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		WCDMA Band V	2.4GHz Wi-Fi DTS Band	Bluetooth		
Head	Left Touch	0.426	0.501		0.927	No
	Left Tilt	0.293	0.458		0.751	No
	Right Touch	0.495	0.257		0.752	No
	Right Tilt	0.303	0.262		0.565	No
Head	Left Touch	0.426		0.167	0.593	No
	Left Tilt	0.293		0.167	0.460	No
	Right Touch	0.495		0.167	0.662	No
	Right Tilt	0.303		0.167	0.470	No
Body-worn	Rear	0.725	0.344		1.069	No
	Front	0.372	0.354		0.726	No
	Edge 2	0.513	0.282		0.795	No
	Rear	0.725		0.084	0.809	No
	Front	0.372		0.084	0.456	No
	Edge 2	0.513		0.084	0.597	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		WCDMA Band V	5.2GHz Wi-Fi DTS Band	5.8GHz Wi-Fi DTS Band		
Head	Left Touch	0.426	0.793		1.219	No
	Left Tilt	0.293	0.794		1.087	No
	Right Touch	0.495	0.605		1.100	No
	Right Tilt	0.303	0.436		0.739	No
Head	Left Touch	0.426		0.445	0.871	No
	Left Tilt	0.293		0.550	0.843	No
	Right Touch	0.495		0.354	0.849	No
	Right Tilt	0.303		0.500	0.803	No
Body-worn	Rear	0.725	0.181		0.906	No
	Front	0.372	0.377		0.749	No
	Edge 2	0.513	0.157		0.670	No
	Rear	0.725		0.202	0.927	No
	Front	0.372		0.359	0.731	No
	Edge 2	0.513		0.147	0.660	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 &Wi-Fi & BT:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 2	2.4GHz Wi-Fi DTS Band	Bluetooth		
Head	Left Touch	0.472	0.501		0.973	No
	Left Tilt	0.562	0.458		1.020	No
	Right Touch	0.709	0.257		0.966	No
	Right Tilt	0.983	0.262		1.245	No
Head	Left Touch	0.472		0.167	0.639	No
	Left Tilt	0.562		0.167	0.729	No
	Right Touch	0.709		0.167	0.876	No
	Right Tilt	0.983		0.167	1.150	No
Body-worn	Rear	0.577	0.344		0.921	No
	Front	0.207	0.354		0.561	No
	Edge 1	0.815	0.284		1.099	No
	Rear	0.577		0.084	0.661	No
	Front	0.207		0.084	0.291	No
	Edge 1	0.815		0.084	0.899	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 2	5.2GHz Wi-Fi DTS Band	5.8GHz Wi-Fi DTS Band		
Head	Left Touch	0.472	0.793		1.265	No
	Left Tilt	0.562	0.794		1.356	No
	Right Touch	0.709	0.605		1.314	No
	Right Tilt	0.983	0.436		1.419	No
Head	Left Touch	0.472		0.445	0.917	No
	Left Tilt	0.562		0.550	1.112	No
	Right Touch	0.709		0.354	1.063	No
	Right Tilt	0.983		0.500	1.483	No
Body-worn	Rear	0.577	0.181		0.758	No
	Front	0.207	0.377		0.584	No
	Edge 1	0.815	0.622		1.437	No
	Rear	0.577		0.202	0.779	No
	Front	0.207		0.359	0.566	No
	Edge 1	0.815		0.683	**1.498**	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 &Wi-Fi & BT:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 4	2.4GHz Wi-Fi DTS Band	Bluetooth		
Head	Left Touch	0.345	0.501		0.846	No
	Left Tilt	0.371	0.458		0.829	No
	Right Touch	0.665	0.257		0.922	No
	Right Tilt	0.460	0.262		0.722	No
Head	Left Touch	0.345		0.167	0.512	No
	Left Tilt	0.371		0.167	0.538	No
	Right Touch	0.665		0.167	0.832	No
	Right Tilt	0.460		0.167	0.627	No
Body-worn	Rear	0.299	0.344		0.643	No
	Front	0.240	0.354		0.594	No
	Edge 1	0.343	0.284		0.627	No
	Rear	0.299		0.084	0.383	No
	Front	0.240		0.084	0.324	No
	Edge 1	0.343		0.084	0.427	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 4	5.2GHz Wi-Fi DTS Band	5.8GHz Wi-Fi DTS Band		
Head	Left Touch	0.345	0.793		1.138	No
	Left Tilt	0.371	0.794		1.165	No
	Right Touch	0.665	0.605		1.270	No
	Right Tilt	0.460	0.436		0.896	No
Head	Left Touch	0.345		0.445	0.790	No
	Left Tilt	0.371		0.550	0.921	No
	Right Touch	0.665		0.354	1.019	No
	Right Tilt	0.460		0.500	0.960	No
Body-worn	Rear	0.299	0.181		0.480	No
	Front	0.240	0.377		0.617	No
	Edge 1	0.343	0.622		0.965	No
	Rear	0.299		0.202	0.501	No
	Front	0.240		0.359	0.599	No
	Edge 1	0.343		0.683	1.026	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 &Wi-Fi & BT:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 5	2.4GHz Wi-Fi DTS Band	Bluetooth		
Head	Left Touch	0.310	0.501		0.811	No
	Left Tilt	0.202	0.458		0.660	No
	Right Touch	0.351	0.257		0.608	No
	Right Tilt	0.203	0.262		0.465	No
Head	Left Touch	0.310		0.167	0.477	No
	Left Tilt	0.202		0.167	0.369	No
	Right Touch	0.351		0.167	0.518	No
	Right Tilt	0.203		0.167	0.370	No
Body-worn	Rear	0.585	0.344		0.929	No
	Front	0.247	0.354		0.601	No
	Edge 2	0.395	0.282		0.677	No
	Rear	0.585		0.084	0.669	No
	Front	0.247		0.084	0.331	No
	Edge 2	0.395		0.084	0.479	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 5	5.2GHz Wi-Fi DTS Band	5.8GHz Wi-Fi DTS Band		
Head	Left Touch	0.310	0.793		1.103	No
	Left Tilt	0.202	0.794		0.996	No
	Right Touch	0.351	0.605		0.956	No
	Right Tilt	0.203	0.436		0.639	No
Head	Left Touch	0.310		0.445	0.755	No
	Left Tilt	0.202		0.550	0.752	No
	Right Touch	0.351		0.354	0.705	No
	Right Tilt	0.203		0.500	0.703	No
Body-worn	Rear	0.585	0.181		0.766	No
	Front	0.247	0.377		0.624	No
	Edge 2	0.395	0.157		0.552	No
	Rear	0.585		0.202	0.787	No
	Front	0.247		0.359	0.606	No
	Edge 2	0.395		0.147	0.542	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 12 &Wi-Fi & BT:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 12	2.4GHz Wi-Fi DTS Band	Bluetooth		
Head	Left Touch	0.158	0.501		0.659	No
	Left Tilt	0.092	0.458		0.550	No
	Right Touch	0.191	0.257		0.448	No
	Right Tilt	0.110	0.262		0.372	No
Head	Left Touch	0.158		0.167	0.325	No
	Left Tilt	0.092		0.167	0.259	No
	Right Touch	0.191		0.167	0.358	No
	Right Tilt	0.110		0.167	0.277	No
Body-worn	Rear	0.289	0.344		0.633	No
	Front	0.145	0.354		0.499	No
	Edge 2	0.157	0.282		0.439	No
	Rear	0.289		0.084	0.373	No
	Front	0.145		0.084	0.229	No
	Edge 2	0.157		0.084	0.241	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 12	5.2GHz Wi-Fi DTS Band	5.8GHz Wi-Fi DTS Band		
Head	Left Touch	0.158	0.793		0.951	No
	Left Tilt	0.092	0.794		0.886	No
	Right Touch	0.191	0.605		0.796	No
	Right Tilt	0.110	0.436		0.546	No
Head	Left Touch	0.158		0.445	0.603	No
	Left Tilt	0.092		0.550	0.642	No
	Right Touch	0.191		0.354	0.545	No
	Right Tilt	0.110		0.500	0.610	No
Body-worn	Rear	0.289	0.181		0.470	No
	Front	0.145	0.377		0.522	No
	Edge 2	0.157	0.157		0.314	No
	Rear	0.289		0.202	0.491	No
	Front	0.145		0.359	0.504	No
	Edge 2	0.157		0.147	0.304	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 26A &Wi-Fi & BT:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 26A	2.4GHz Wi-Fi DTS Band	Bluetooth		
Head	Left Touch	0.328	0.501		0.829	No
	Left Tilt	0.234	0.458		0.692	No
	Right Touch	0.370	0.257		0.627	No
	Right Tilt	0.210	0.262		0.472	No
Head	Left Touch	0.328		0.167	0.495	No
	Left Tilt	0.234		0.167	0.401	No
	Right Touch	0.370		0.167	0.537	No
	Right Tilt	0.210		0.167	0.377	No
Body-worn	Rear	0.629	0.344		0.973	No
	Front	0.243	0.354		0.597	No
	Edge 2	0.309	0.282		0.591	No
	Rear	0.629		0.084	0.713	No
	Front	0.243		0.084	0.327	No
	Edge 2	0.309		0.084	0.393	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 26A	5.2GHz Wi-Fi DTS Band	5.8GHz Wi-Fi DTS Band		
Head	Left Touch	0.328	0.793		1.121	No
	Left Tilt	0.234	0.794		1.028	No
	Right Touch	0.370	0.605		0.975	No
	Right Tilt	0.210	0.436		0.646	No
Head	Left Touch	0.328		0.445	0.773	No
	Left Tilt	0.234		0.550	0.784	No
	Right Touch	0.370		0.354	0.724	No
	Right Tilt	0.210		0.500	0.710	No
Body-worn	Rear	0.629	0.181		0.810	No
	Front	0.243	0.377		0.620	No
	Edge 2	0.309	0.157		0.466	No
	Rear	0.629		0.202	0.831	No
	Front	0.243		0.359	0.602	No
	Edge 2	0.309		0.147	0.456	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 26B &Wi-Fi & BT:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 26B	2.4GHz Wi-Fi DTS Band	Bluetooth		
Head	Left Touch	0.231	0.501		0.732	No
	Left Tilt	0.151	0.458		0.609	No
	Right Touch	0.268	0.257		0.525	No
	Right Tilt	0.149	0.262		0.411	No
Head	Left Touch	0.231		0.167	0.398	No
	Left Tilt	0.151		0.167	0.318	No
	Right Touch	0.268		0.167	0.435	No
	Right Tilt	0.149		0.167	0.316	No
Body-worn	Rear	0.446	0.344		0.790	No
	Front	0.193	0.354		0.547	No
	Edge 2	0.284	0.282		0.566	No
	Rear	0.446		0.084	0.530	No
	Front	0.193		0.084	0.277	No
	Edge 2	0.284		0.084	0.368	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 26B	5.2GHz Wi-Fi DTS Band	5.8GHz Wi-Fi DTS Band		
Head	Left Touch	0.231	0.793		1.024	No
	Left Tilt	0.151	0.794		0.945	No
	Right Touch	0.268	0.605		0.873	No
	Right Tilt	0.149	0.436		0.585	No
Head	Left Touch	0.231		0.445	0.676	No
	Left Tilt	0.151		0.550	0.701	No
	Right Touch	0.268		0.354	0.622	No
	Right Tilt	0.149		0.500	0.649	No
Body-worn	Rear	0.446	0.181		0.627	No
	Front	0.193	0.377		0.570	No
	Edge 2	0.284	0.157		0.441	No
	Rear	0.446		0.202	0.648	No
	Front	0.193		0.359	0.552	No
	Edge 2	0.284		0.147	0.431	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 41 &Wi-Fi & BT:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 41	2.4GHz Wi-Fi DTS Band	Bluetooth		
Head	Left Touch	0.066	0.501		0.567	No
	Left Tilt	0.026	0.458		0.484	No
	Right Touch	0.048	0.257		0.305	No
	Right Tilt	0.053	0.262		0.315	No
Head	Left Touch	0.066		0.167	0.233	No
	Left Tilt	0.026		0.167	0.193	No
	Right Touch	0.048		0.167	0.215	No
	Right Tilt	0.053		0.167	0.220	No
Body-worn	Rear	0.315	0.344		0.659	No
	Front	0.105	0.354		0.459	No
	Edge 2	0.149	0.282		0.431	No
	Rear	0.315		0.084	0.399	No
	Front	0.105		0.084	0.189	No
	Edge 2	0.149		0.084	0.233	No
RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 41	5.2GHz Wi-Fi DTS Band	5.8GHz Wi-Fi DTS Band		
Head	Left Touch	0.066	0.793		0.859	No
	Left Tilt	0.026	0.794		0.820	No
	Right Touch	0.048	0.605		0.653	No
	Right Tilt	0.053	0.436		0.489	No
Head	Left Touch	0.066		0.445	0.511	No
	Left Tilt	0.026		0.550	0.576	No
	Right Touch	0.048		0.354	0.402	No
	Right Tilt	0.053		0.500	0.553	No
Body-worn	Rear	0.315	0.181		0.496	No
	Front	0.105	0.377		0.482	No
	Edge 2	0.149	0.157		0.306	No
	Rear	0.315		0.202	0.517	No
	Front	0.105		0.359	0.464	No
	Edge 2	0.149		0.147	0.296	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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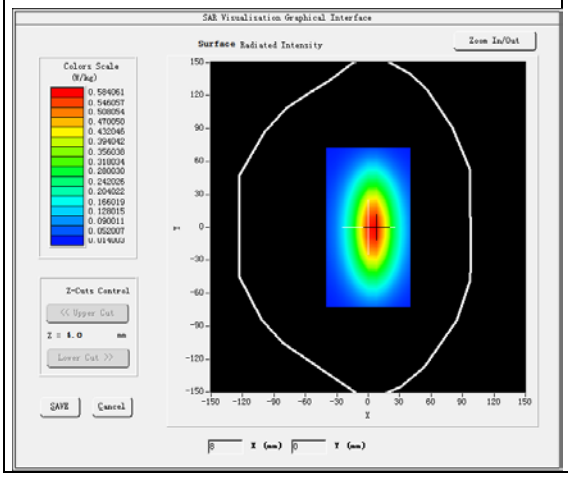
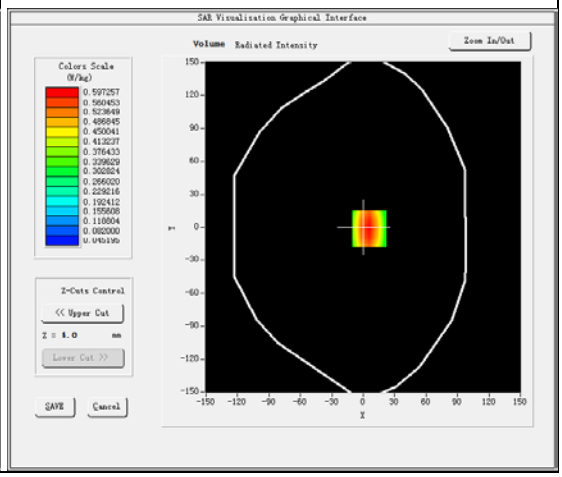
APPENDIX A. SAR SYSTEM CHECK DATA

Test Laboratory: AGC Lab **Date: Sep. 04, 2024**
System Check Head 750 MHz
DUT: Dipole 750 MHz Type: SID 750
Communication System CW; Communication System Band: D750 (750.0 MHz); Duty Cycle: 1:1; Conv.F=2.04
Frequency: 750 MHz; Medium parameters used: f = 750 MHz; σ=0.92 mho/m; εr =42.23; ρ= 1000 kg/m³ ;
Phantom section: Flat Section; Input Power=18dBm
Ambient temperature (℃):21.2, Liquid temperature (℃): 21.0

SATIMO Configuration:
- Probe: SSE2; Calibrated: Apr. 30, 2024; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

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

SURFACE SAR	VOLUME SAR
	

Maximum location: X=6.00, Y=-1.00
SAR Peak: 0.86 W/kg

SAR 10g (W/Kg)	0.344831
SAR 1g (W/Kg)	0.554693

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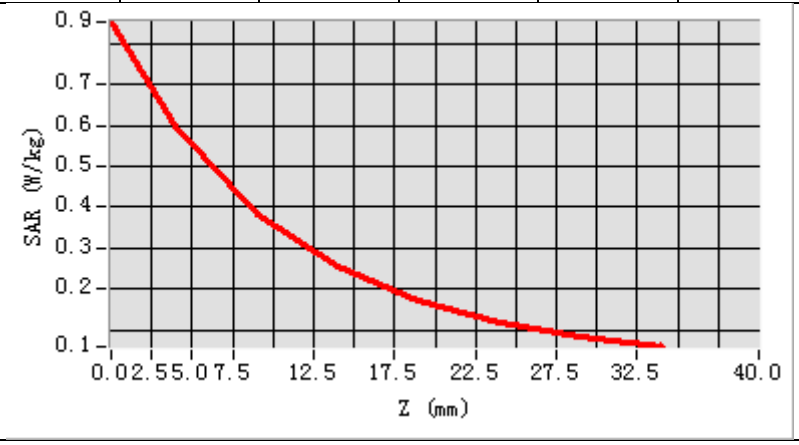
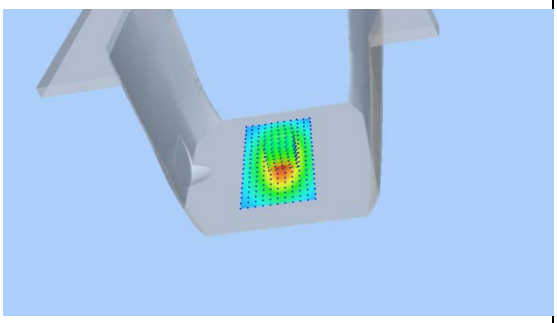
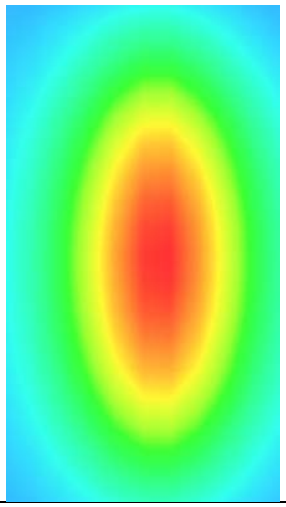
Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.8272	0.5669	0.3741	0.2443	0.1697	0.1152	0.0746



3D screen shot	Hot spot position
	

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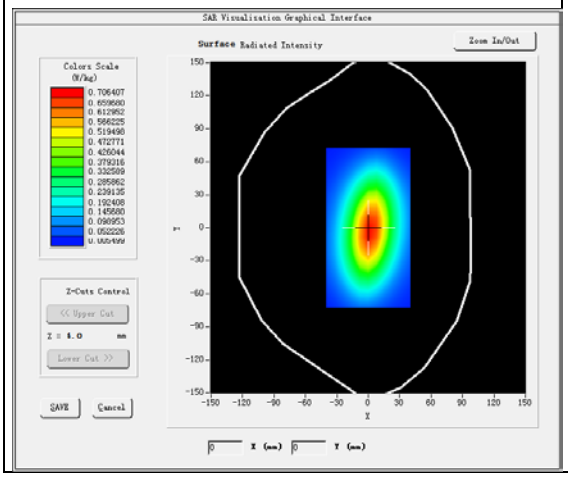
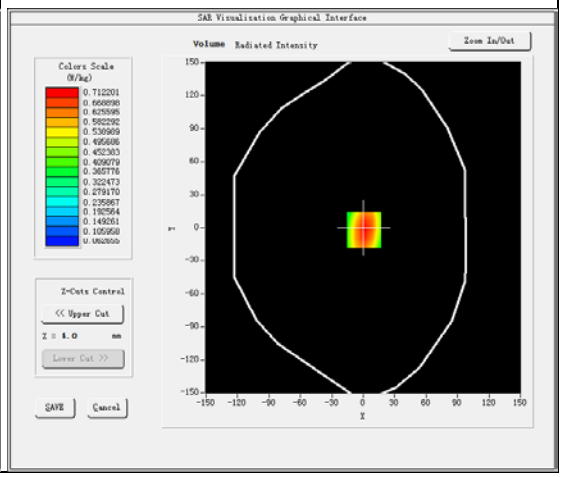
Test Laboratory: AGC Lab **Date: Sep. 03, 2024**
System Check Head 835 MHz
DUT: Dipole 835 MHz Type: SID 835
Communication System CW; Communication System Band: D835 (835.0 MHz); Duty Cycle: 1:1; Conv.F=1.89
Frequency: 835 MHz; Medium parameters used: f = 835 MHz; σ=0.91 mho/m; εr =41.27; ρ= 1000 kg/m³ ;
Phantom section: Flat Section; Input Power=18dBm
Ambient temperature (℃):21.6, Liquid temperature (℃): 21.2

SATIMO Configuration:
- Probe: SSE2; Calibrated: Apr. 30, 2024; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

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

SURFACE SAR	VOLUME SAR
	

Maximum location: X=1.00, Y=-2.00
SAR Peak: 0.98 W/kg

SAR 10g (W/Kg)	0.393340
SAR 1g (W/Kg)	0.631825

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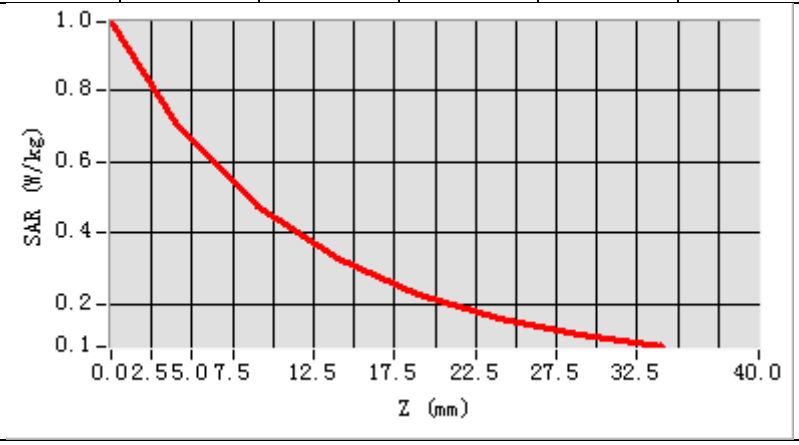
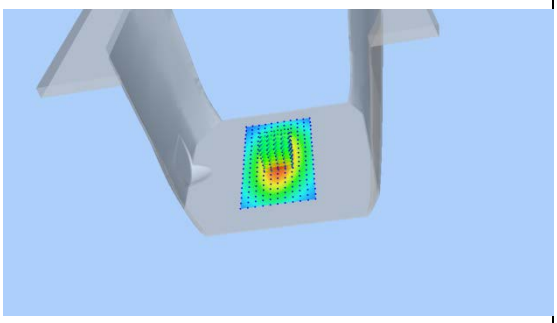
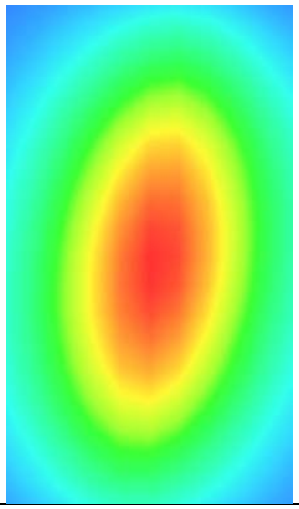
Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.9873	0.7109	0.4745	0.3260	0.2278	0.1613	0.1138



3D screen shot	Hot spot position
	

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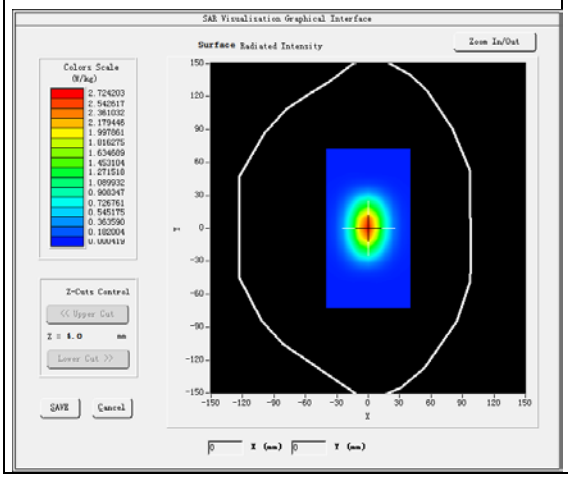
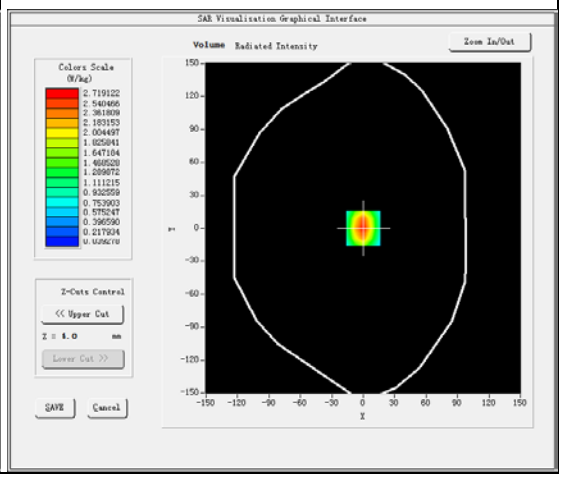
Test Laboratory: AGC Lab **Date: Sep. 05, 2024**
System Check Head 1750MHz
DUT: Dipole 1800 MHz; Type: SID 1800
Communication System: CW; Communication System Band: D1700 (1750.0 MHz); Duty Cycle:1:1; Conv.F=2.28
Frequency: 1750 MHz; Medium parameters used: f = 1750MHz; σ=1.40 mho/m; εr =39.67; ρ= 1000 kg/m³ ;
Phantom section: Flat Section; Input Power=18dBm
Ambient temperature (℃): 20.9, Liquid temperature (℃): 20.8

SATIMO Configuration:
Probe: SSE2; Calibrated: Apr. 30, 2024; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

Configuration/System Check 1750MHz Head/Area Scan: Measurement grid: dx=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=0.00, Y=0.00
SAR Peak: 4.42 W/kg

SAR 10g (W/Kg)	1.293504
SAR 1g (W/Kg)	2.558018

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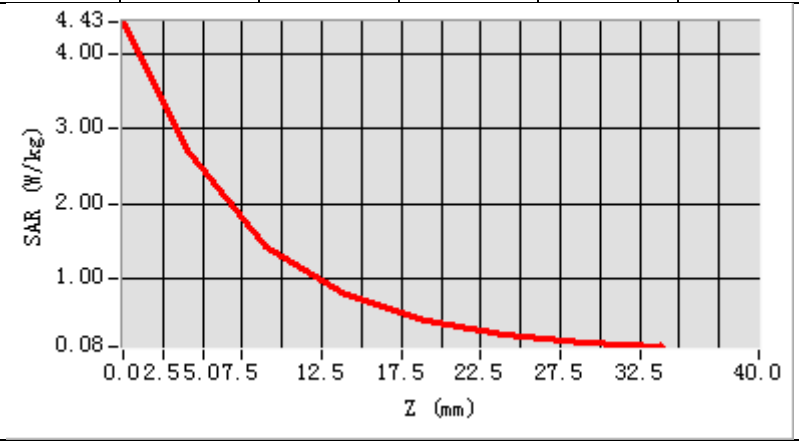
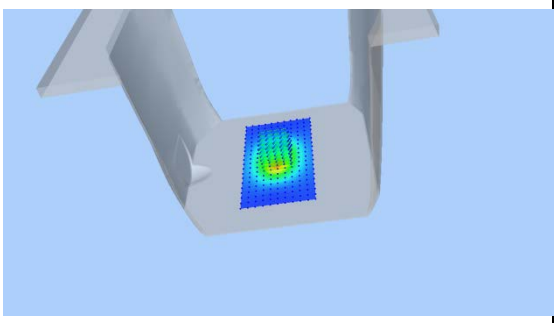
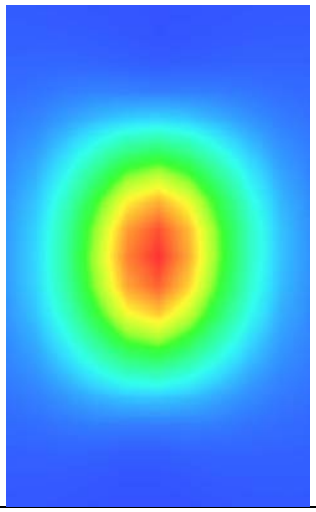
Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	4.4290	2.7165	1.4299	0.7851	0.4407	0.2493	0.1431



3D screen shot	Hot spot position
	

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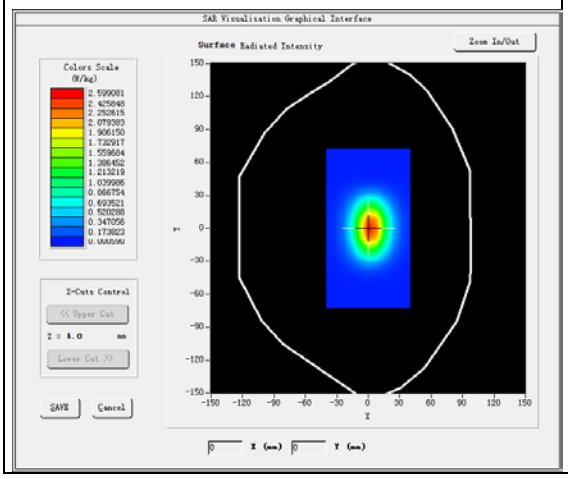
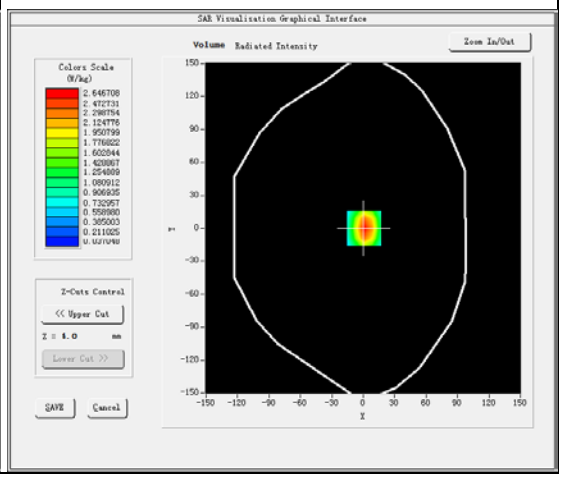
Test Laboratory: AGC Lab **Date: Sep. 06, 2024**
System Check Head 1900MHz
DUT: Dipole 1900 MHz; Type: SID 1900
Communication System: CW; Communication System Band: D1900 (1900.0 MHz); Duty Cycle:1:1; Conv.F=2.08
Frequency: 1900 MHz; Medium parameters used: f = 1900 MHz; σ=1.38 mho/m; εr =39.63; ρ= 1000 kg/m³ ;
Phantom section: Flat Section; Input Power=18dBm
Ambient temperature (℃):21.2, Liquid temperature (℃): 20.9

SATIMO Configuration:
Probe: SSE2; Calibrated: Apr. 30, 2024; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

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

SURFACE SAR	VOLUME SAR
	

Maximum location: X=1.00, Y=0.00
SAR Peak: 4.34 W/kg

SAR 10g (W/Kg)	1.265117
SAR 1g (W/Kg)	2.509488

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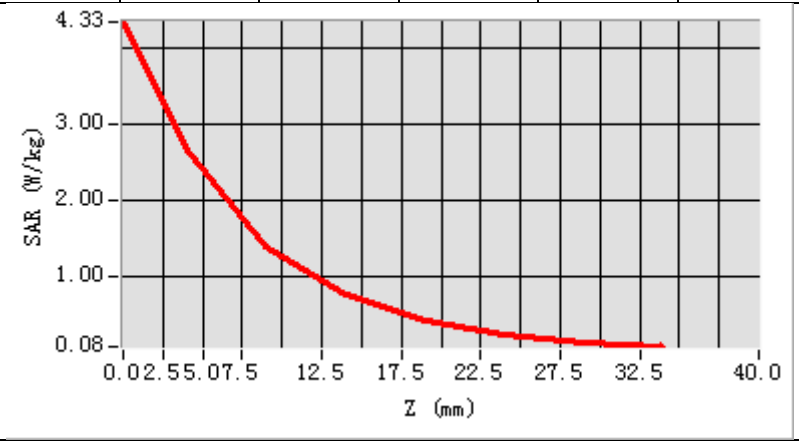
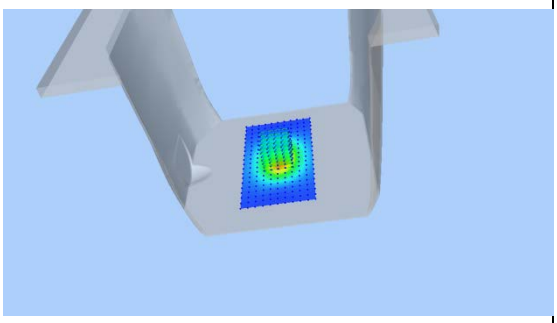
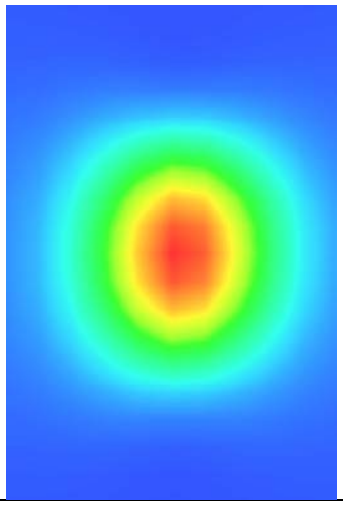
Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	4.3335	2.6480	1.3848	0.7582	0.4233	0.2398	0.1385



3D screen shot	Hot spot position
	

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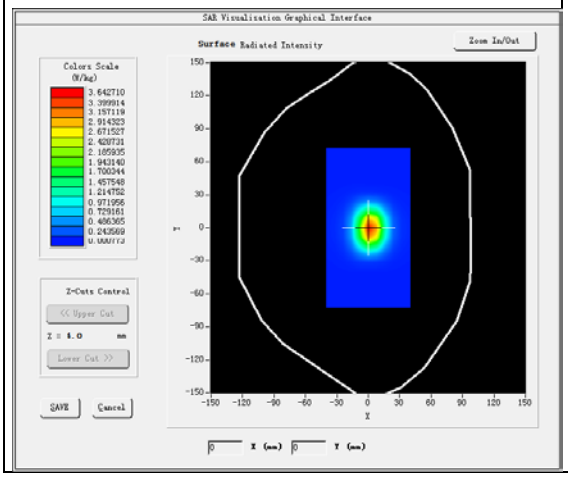
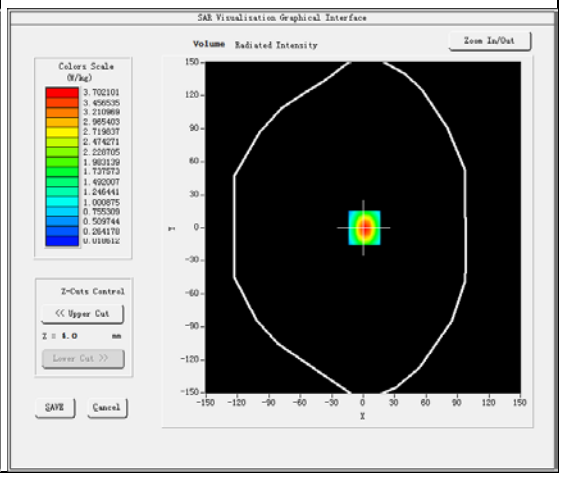
Test Laboratory: AGC Lab **Date: Sep. 07, 2024**
System Check Head 2450 MHz
DUT: Dipole 2450 MHz Type: SID 2450
Communication System CW; Communication System Band: D2450 (2450.0 MHz); Duty Cycle: 1:1; Conv.F=2.16
Frequency: 2450 MHz; Medium parameters used: f = 2450 MHz; σ=1.75 mho/m; εr =38.50; ρ= 1000 kg/m³ ;
Phantom section: Flat Section; Input Power=18dBm
Ambient temperature (℃):21.9, Liquid temperature (℃): 21.4

SATIMO Configuration
- Probe: SSE2; Calibrated: Apr. 30, 2024; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

Configuration/System Check 2450MHz Head/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/System Check 2450MHz Head/Zoom Scan: Measurement grid: dx=5mm,dy=5mm, dz=5mm

SURFACE SAR	VOLUME SAR
	

Maximum location: X=1.00, Y=0.00
SAR Peak: 6.39 W/kg

SAR 10g (W/Kg)	1.534412
SAR 1g (W/Kg)	3.421685

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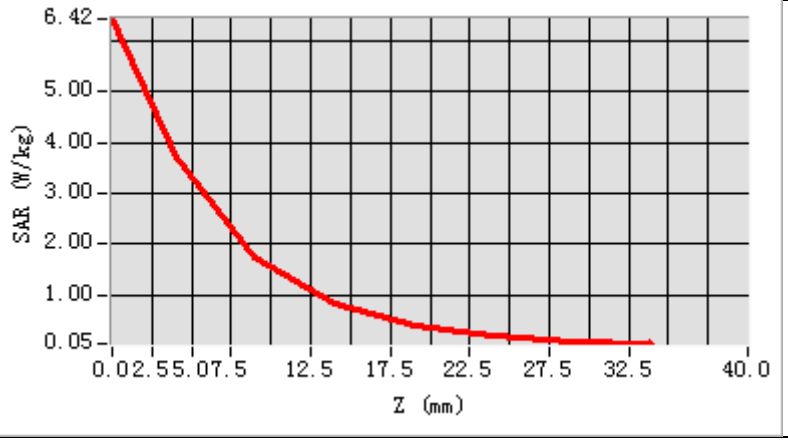
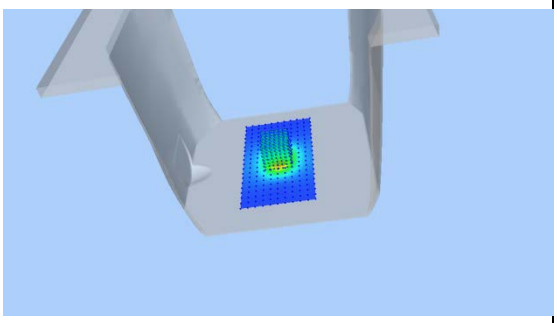
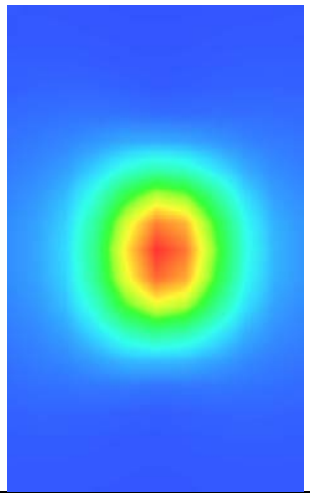
Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	6.4217	3.7003	1.7349	0.8371	0.4055	0.2007	0.0970



3D screen shot	Hot spot position
	

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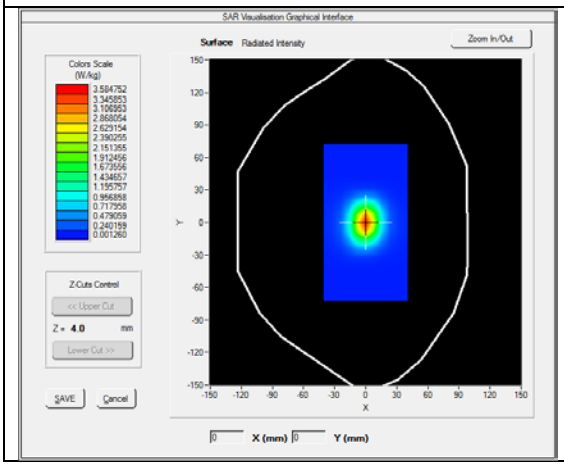
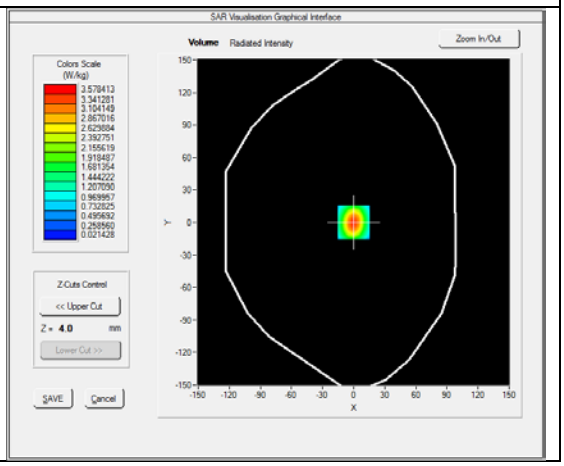
Test Laboratory: AGC Lab **Date: Sep. 08, 2024**
System Check Head 2600MHz
DUT: Dipole 2600 MHz; Type: SID 2600
Communication System: CW; Communication System Band: D2600 (2600.0 MHz); Duty Cycle: 1:1; Conv.F=2.06
Frequency:2600 MHz; Medium parameters used: f = 2600 MHz; σ=1.93 mho/m; εr =38.29; ρ= 1000 kg/m³ ;
Phantom section: Flat Section; Input Power=18dBm
Ambient temperature (℃): 21.6, Liquid temperature (℃): 21.1

SATIMO Configuration:
- Probe: SSE2; Calibrated: Apr. 30, 2024; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

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

SURFACE SAR	VOLUME SAR
	

Maximum location: X=0.00, Y=0.00
SAR Peak: 5.97 W/kg

SAR 10g (W/Kg)	1.520953
SAR 1g (W/Kg)	3.336508

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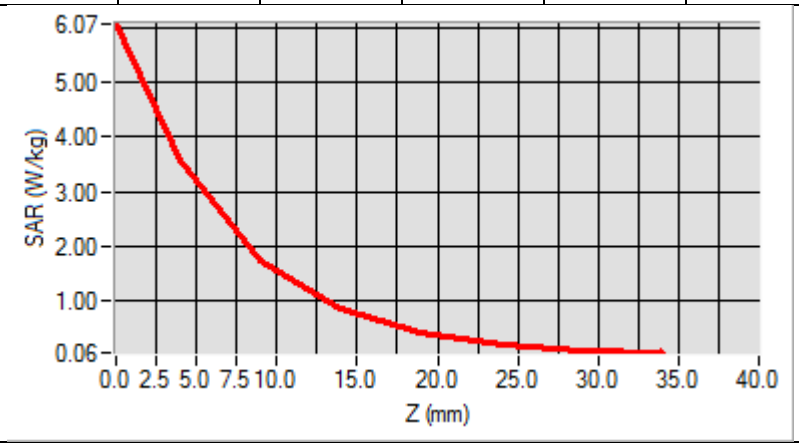
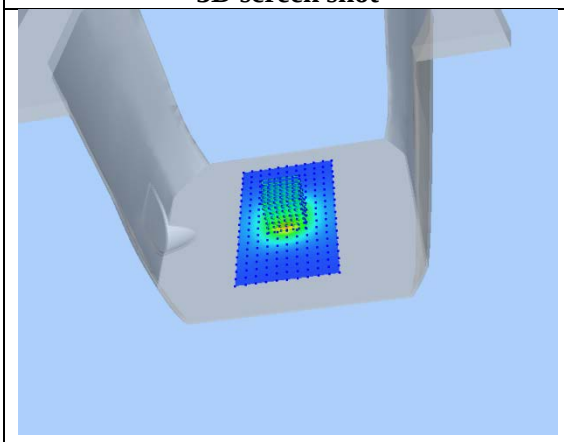
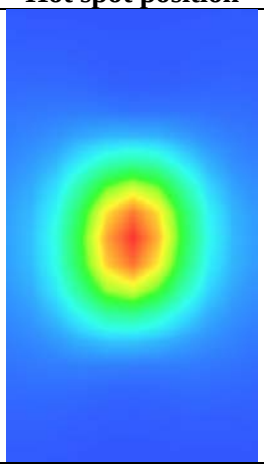
Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	6.0661	3.5694	1.7378	0.8540	0.4274	0.2208	0.1091



3D screen shot	Hot spot position
	

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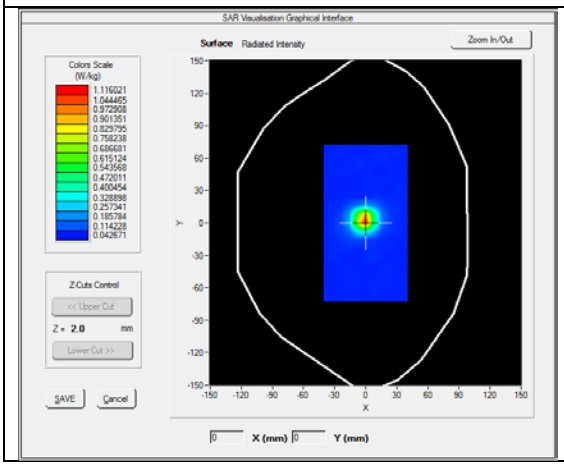
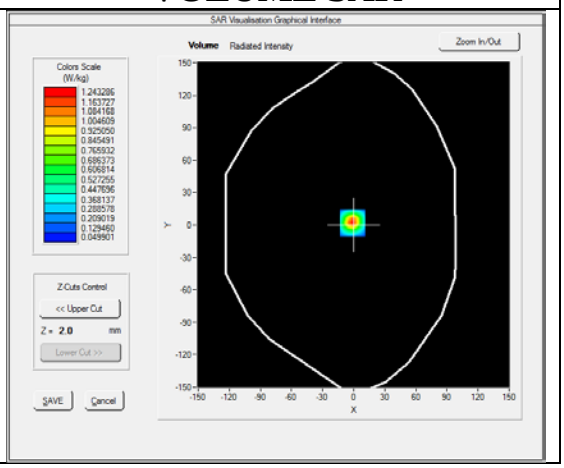
Test Laboratory: AGC Lab **Date: Sep. 11, 2024**
System Check 5200 MHz
DUT: Dipole 5000MHz Type: SID5500
Communication System: CW; Communication System Band: D5000 (5000.0 MHz); Duty Cycle: 1:1; Conv.F=1.53
Frequency: 5200 MHz; Medium parameters used: f = 5200 MHz; σ =4.57 mho/m; εr =35.34; ρ= 1000 kg/m³ ;
Phantom section: Flat Section; Input Power=10dBm
Ambient temperature (℃): 20.9, Liquid temperature (℃): 20.6

SATIMO Configuration:
- Probe: SSE2; Calibrated: Apr. 30, 2024; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

Configuration/System Check 5200 MHz Body/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/System Check 5200 MHz Body/Zoom Scan: Measurement grid: dx=4mm,dy=4mm, dz=2mm

SURFACE SAR	VOLUME SAR
	

Maximum location: X=-1.00, Y=2.00
SAR Peak: 2.18 W/kg

SAR 10g (W/Kg)	0.230558
SAR 1g (W/Kg)	0.664648

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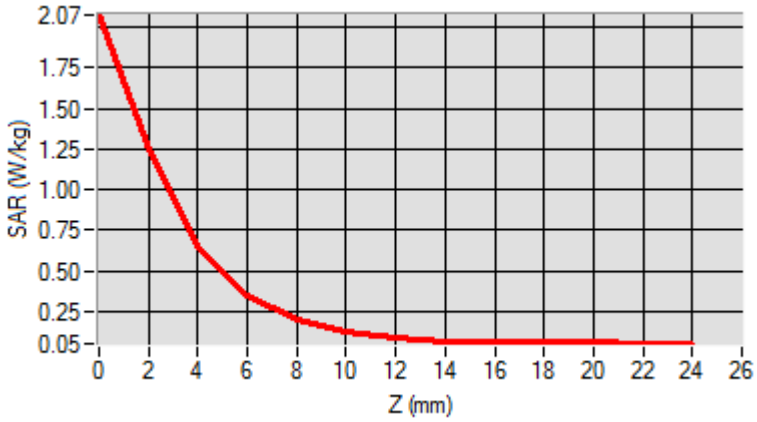
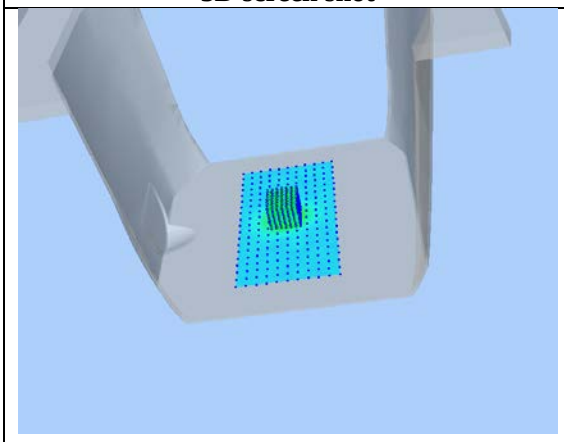
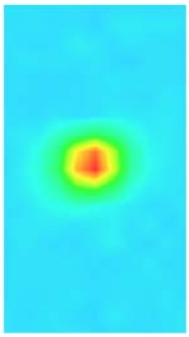
Z (mm)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00
SAR (W/Kg)	2.0726	1.2433	0.6606	0.3514	0.1956	0.1221	0.0939	0.0644	0.0632	0.0673	0.0627	0.0560



3D screen shot	Hot spot position
	

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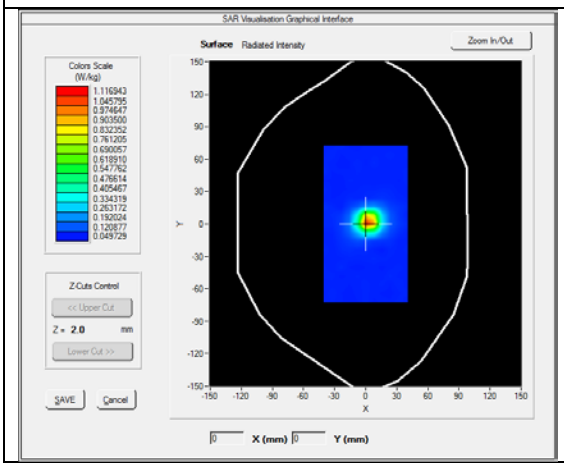
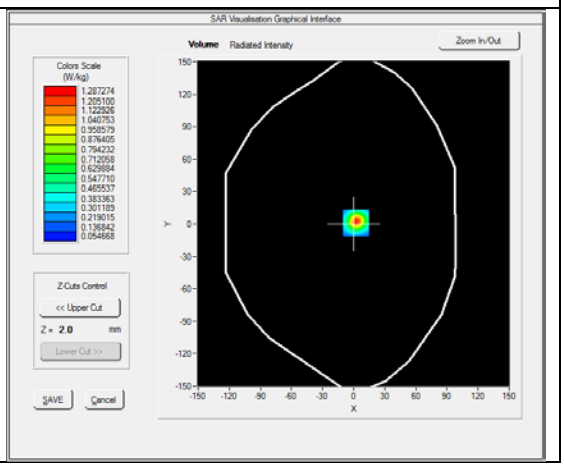
Test Laboratory: AGC Lab **Date: Sep. 12, 2024**
System Check Head 5800 MHz
DUT: Dipole 5000MHz Type: SID5800
Communication System: CW; Communication System Band: D5000 (5000.0 MHz); Duty Cycle: 1:1; Conv.F=1.37
Frequency: 5800 MHz; Medium parameters used: f = 5800 MHz; σ =5.35 mho/m; εr =36.61; ρ= 1000 kg/m³ ;
Phantom section: Flat Section; Input Power=18dBm
Ambient temperature (℃): 21.2, Liquid temperature (℃): 20.8

SATIMO Configuration:
- Probe: SSE2; Calibrated: Apr. 30, 2024; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

Configuration/System Check 5800 MHz Head/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/System Check 5800 MHz Head/Zoom Scan: Measurement grid: dx=4mm,dy=4mm, dz=2mm

SURFACE SAR	VOLUME SAR
	

Maximum location: X=2.00, Y=1.00
SAR Peak: 2.34 W/kg

SAR 10g (W/Kg)	0.242381
SAR 1g (W/Kg)	0.697102

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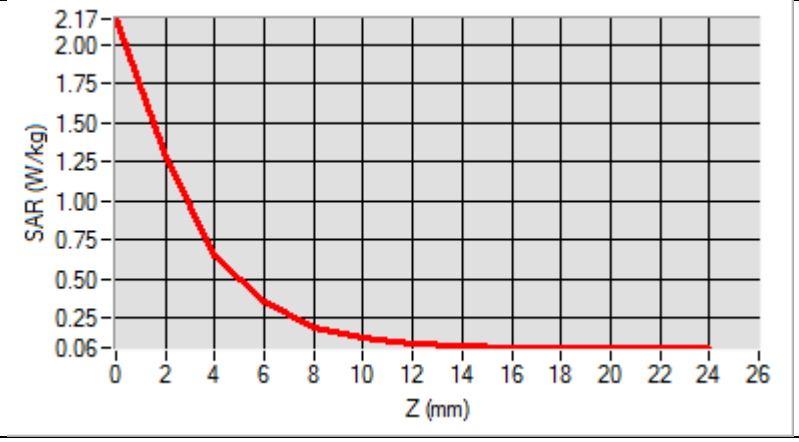
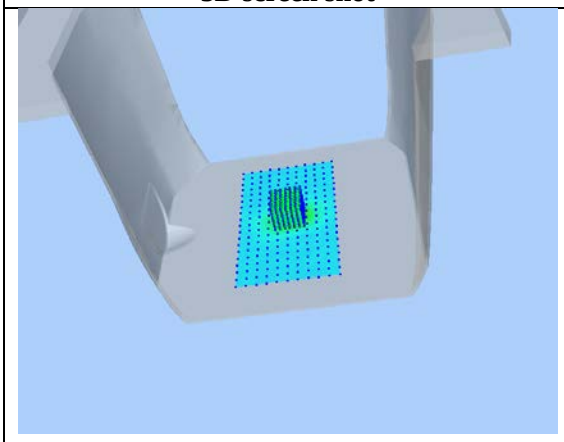
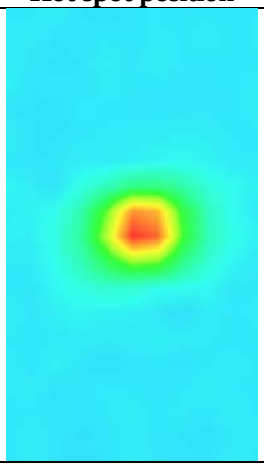
Z (mm)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00
SAR (W/Kg)	2.1675	1.2873	0.6464	0.3505	0.1932	0.1268	0.0840	0.0680	0.0663	0.0601	0.0607	0.0656



3D screen shot	Hot spot position
	

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APPENDIX B. SAR MEASUREMENT DATA

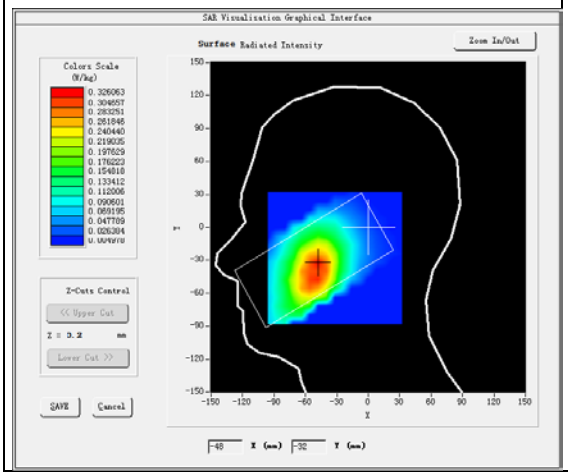
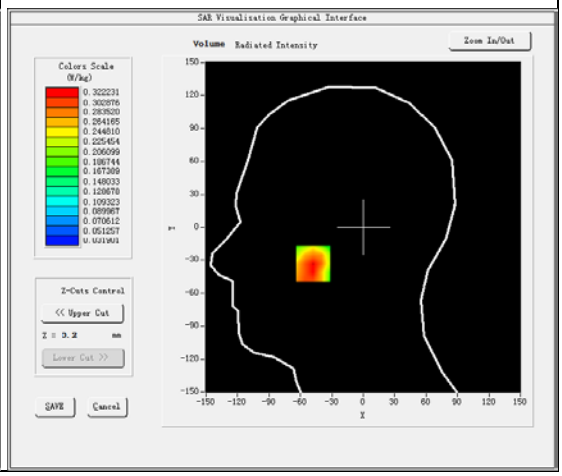
Test Laboratory: AGC Lab **Date: Sep. 03, 2024**
GSM 850 Mid- Touch-Right <SIM 1>
DUT: 4G Smart Phone; Type: AGM_H_MAX

Communication System: Generic GSM; Communication System Band: GSM 850; Duty Cycle: 1:8.3; Conv.F=1.89; Frequency: 836.6 MHz; Medium parameters used: f = 835 MHz; σ= 0.93 mho/m; εr = 40.71; ρ= 1000 kg/m³ ;
Phantom section: Right Section
Ambient temperature (℃): 21.6, Liquid temperature (℃): 21.2

SATIMO Configuration:
- Probe: SSE2; Calibrated: Apr. 30, 2024; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

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=-48.00, Y=-33.00
SAR Peak: 0.44 W/kg

SAR 10g (W/Kg)	0.219810
SAR 1g (W/Kg)	0.313130

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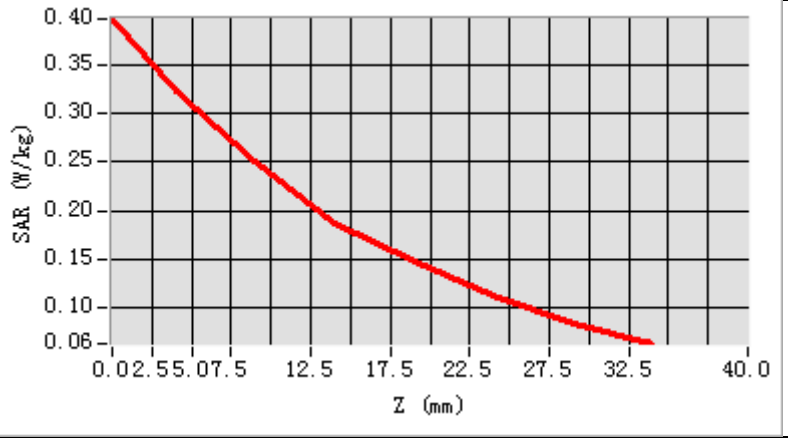
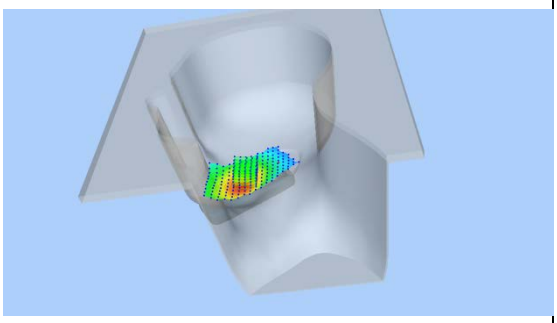
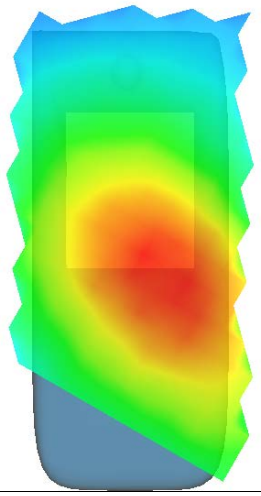
Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.3965	0.3222	0.2512	0.1871	0.1481	0.1135	0.0837



3D screen shot	Hot spot position
	

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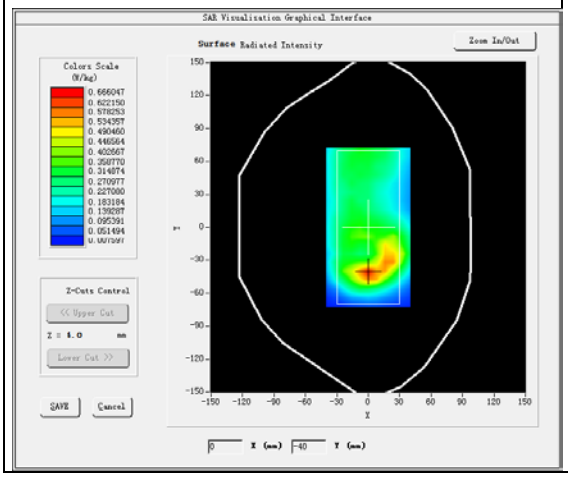
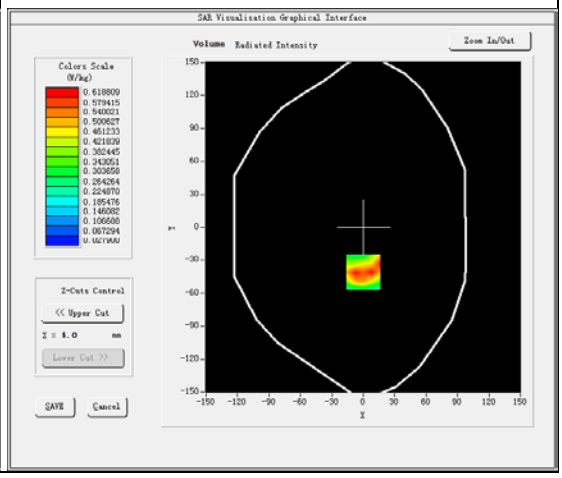
Test Laboratory: AGC Lab **Date: Sep. 03, 2024**
GSM 850 Mid- Body- Back (MS)<SIM 1>
DUT: 4G Smart Phone; Type: AGM_H_MAX

Communication System: Generic GSM; Communication System Band: GSM 850; Duty Cycle: 1:8.3; Conv.F=1.89; Frequency: 836.6 MHz; Medium parameters used: f = 835 MHz; σ= 0.93 mho/m; εr = 40.71; ρ= 1000 kg/m³ ;
Phantom section: Flat Section
Ambient temperature (℃): 21.6, Liquid temperature (℃): 21.2

SATIMO Configuration:
- Probe: SSE2; Calibrated: Apr. 30, 2024; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

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

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

SURFACE SAR	**VOLUME SAR**
	

Maximum location: X=0.00, Y=-41.00
SAR Peak: 1.03 W/kg

SAR 10g (W/Kg)	0.316012
SAR 1g (W/Kg)	0.586455

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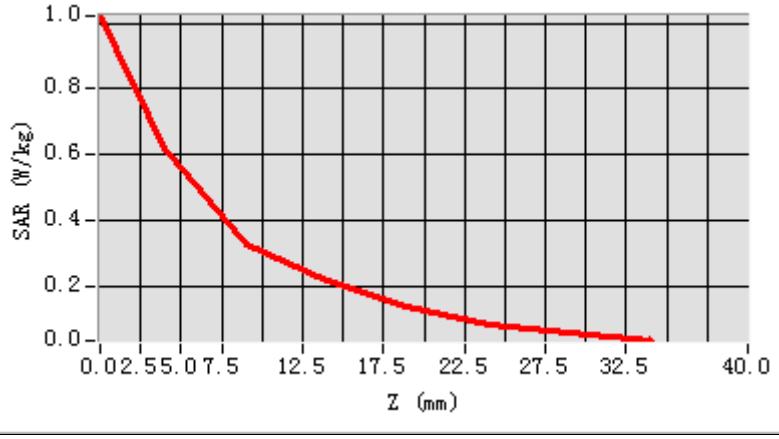
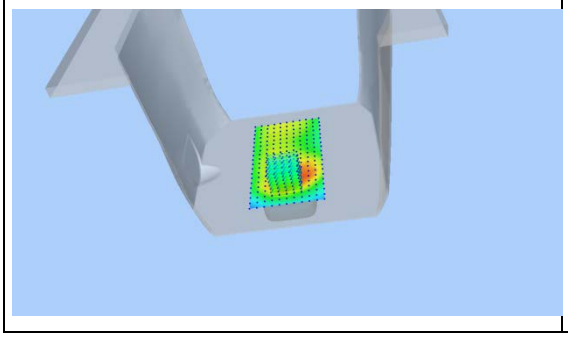
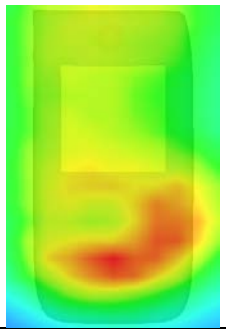
Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.0216	0.6188	0.3297	0.2156	0.1388	0.0816	0.0586



3D screen shot	Hot spot position
	

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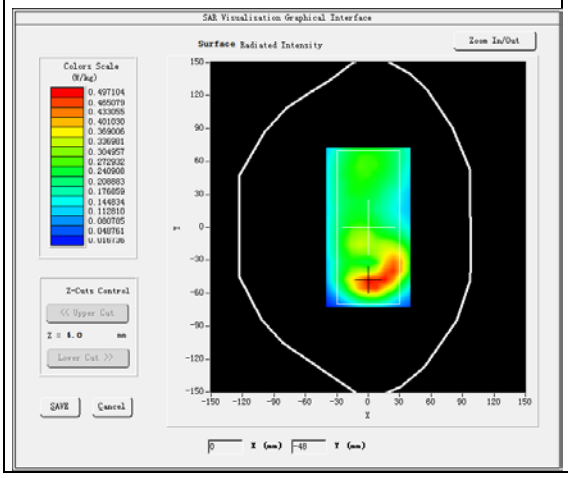
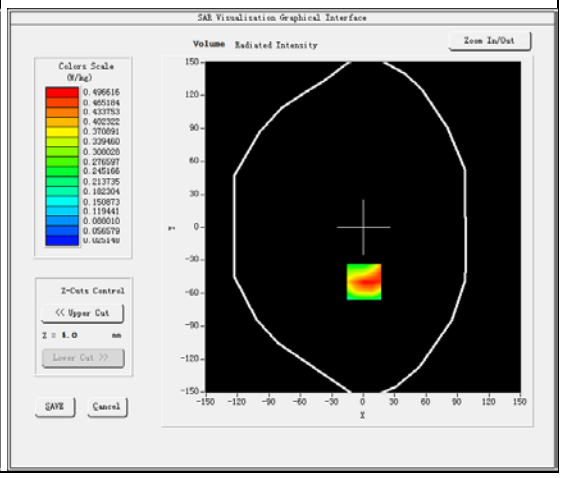
Test Laboratory: AGC Lab **Date: Sep. 03, 2024**
GPRS 850 Mid- Body- Back (2up)
DUT: 4G Smart Phone; Type: AGM_H_MAX

Communication System: GPRS-2 Slot; Communication System Band: GSM 850; Duty Cycle: 1:4.2; Conv.F=1.89; Frequency: 836.6 MHz; Medium parameters used: f = 835 MHz; σ= 0.93 mho/m; εr = 40.71; ρ= 1000 kg/m³ ;
Phantom section: Flat Section
Ambient temperature (℃): 21.6, Liquid temperature (℃): 21.2

SATIMO Configuration:
- Probe: SSE2; Calibrated: Apr. 30, 2024; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

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

Area Scan	surf_sam_plan.txt, h= 5.00 mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Validation plane
Device Position	Body Back
Band	GSM 850
Channels	Middle
Signal	TDMA (Crest factor: 4.0)

SURFACE SAR	VOLUME SAR
	

Maximum location: X=1.00, Y=-50.00
SAR Peak: 0.75 W/kg

SAR 10g (W/Kg)	0.272647
SAR 1g (W/Kg)	0.470524

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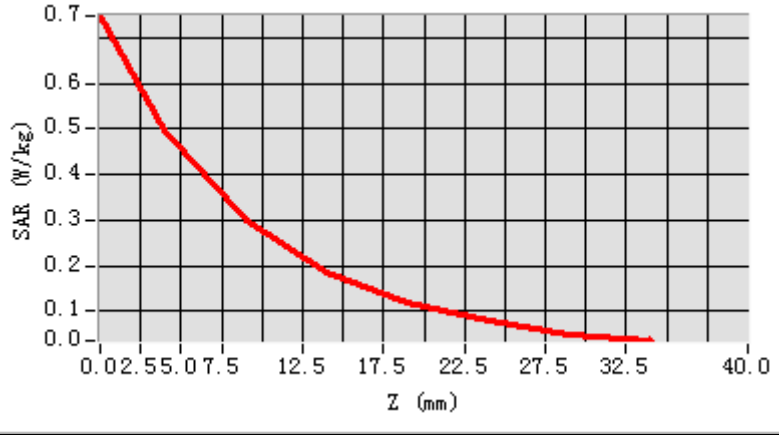
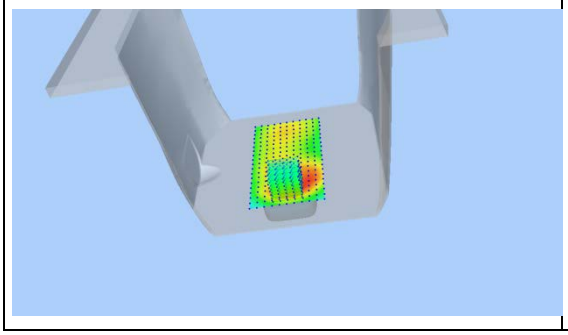
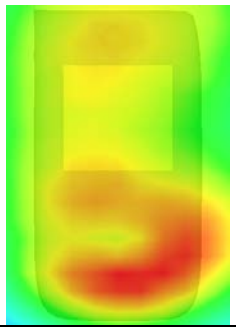
Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.7486	0.4966	0.2993	0.1856	0.1211	0.0803	0.0508



3D screen shot	Hot spot position
	

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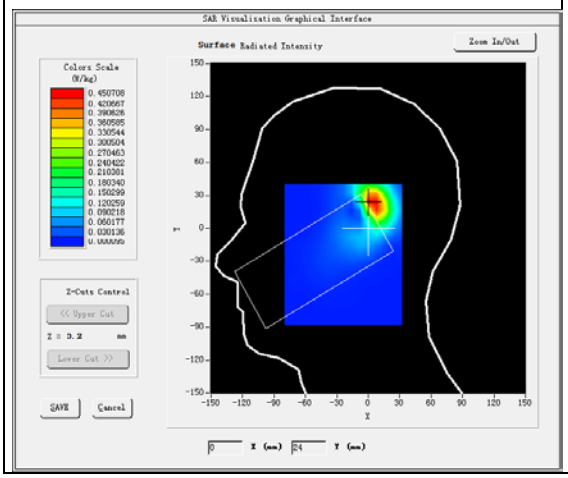
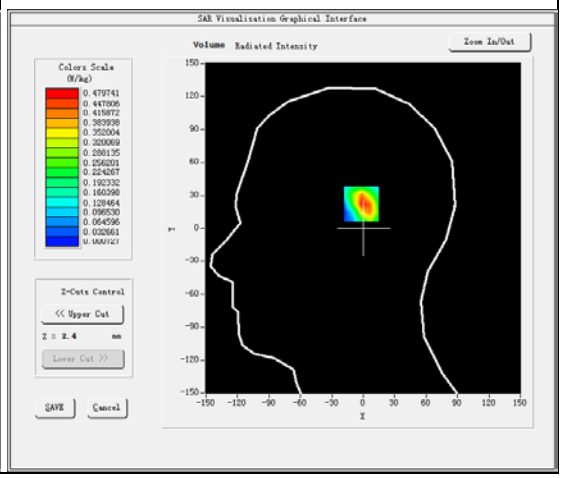
Test Laboratory: AGC Lab **Date: Sep. 06, 2024**
PCS 1900 Mid-Tilt-Right <SIM 1>
DUT: 4G Smart Phone; Type: AGM_H_MAX

Communication System: Generic GSM; Communication System Band: PCS 1900; Duty Cycle: 1:8.3; Conv.F=2.08; Frequency: 1880 MHz; Medium parameters used: f = 1900 MHz; σ= 1.35 mho/m; εr =40.22; ρ= 1000 kg/m³ ;
Phantom section: Right Section
Ambient temperature (℃): 21.2, Liquid temperature (℃): 20.9

SATIMO Configuration:
- Probe: SSE2; Calibrated: Apr. 30, 2024; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

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

SURFACE SAR	VOLUME SAR
	

Maximum location: X=3.00, Y=24.00
SAR Peak: 0.79 W/kg

SAR 10g (W/Kg)	0.218117
SAR 1g (W/Kg)	0.452722

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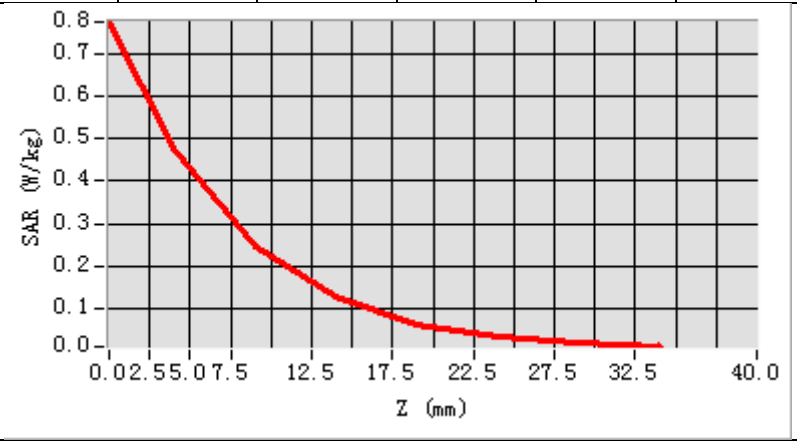
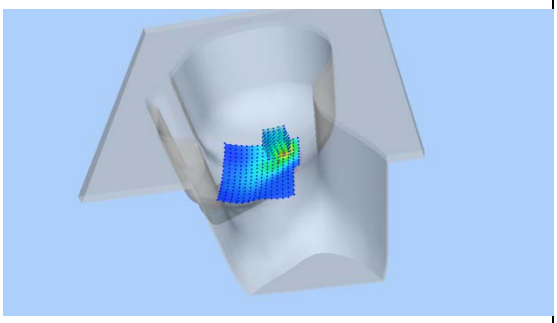
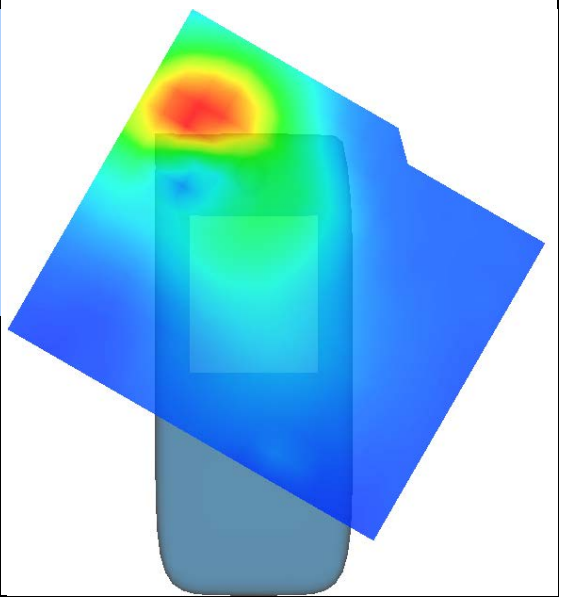
Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.7759	0.4797	0.2482	0.1268	0.0610	0.0353	0.0185



3D screen shot	Hot spot position
	

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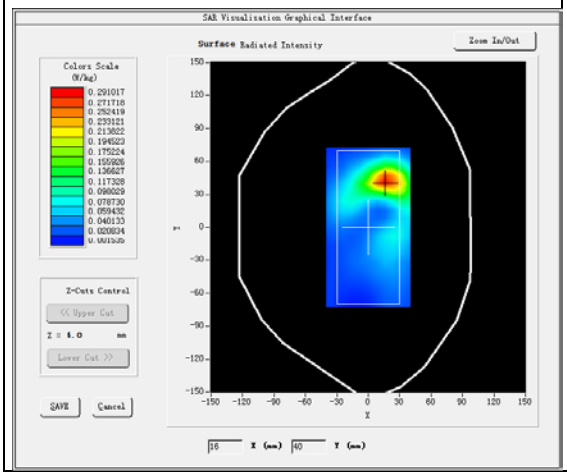
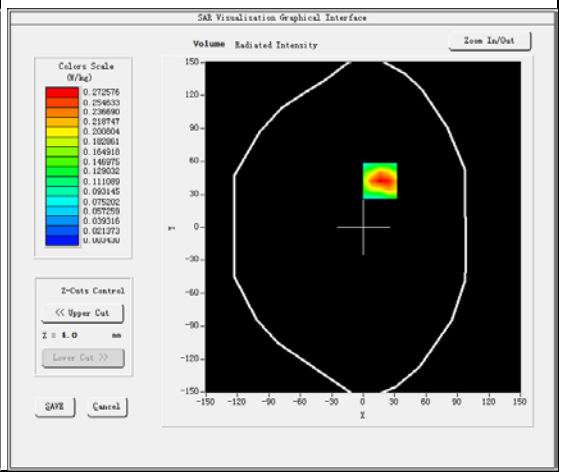
Test Laboratory: AGC Lab **Date: Sep. 06, 2024**
PCS 1900 Mid-Body-Back (MS)<SIM 1>
DUT: 4G Smart Phone; Type: AGM_H_MAX

Communication System: Generic GSM; Communication System Band: PCS 1900; Duty Cycle: 1:8.3; Conv.F=2.08; Frequency: 1880 MHz; Medium parameters used: f = 1900 MHz; σ= 1.35 mho/m; εr =40.22; ρ= 1000 kg/m³ ;
Phantom section: Flat Section
Ambient temperature (℃): 21.2, Liquid temperature (℃): 20.9

SATIMO Configuration:
- Probe: SSE2; Calibrated: Apr. 30, 2024; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

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

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

SURFACE SAR	VOLUME SAR
	

Maximum location: X=16.00, Y=42.00
SAR Peak: 0.43 W/kg

SAR 10g (W/Kg)	0.141298
SAR 1g (W/Kg)	0.260873

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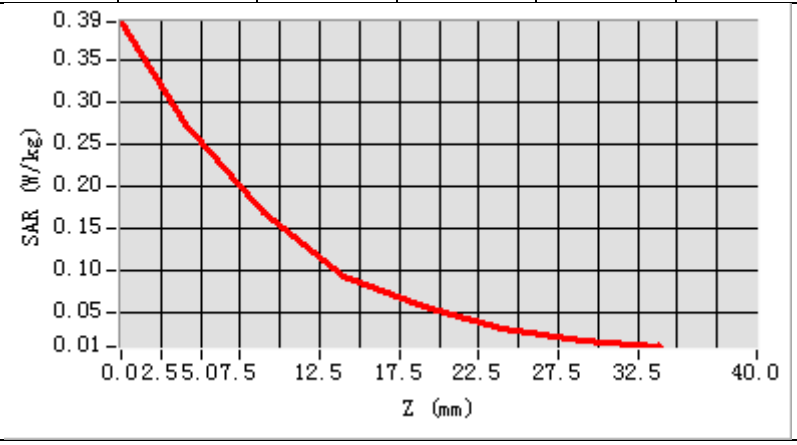
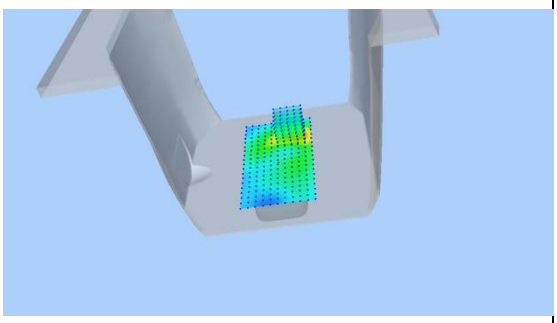
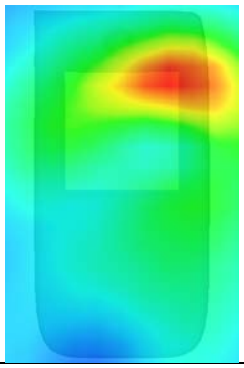
Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.3939	0.2726	0.1681	0.0919	0.0568	0.0322	0.0182



3D screen shot	Hot spot position
	

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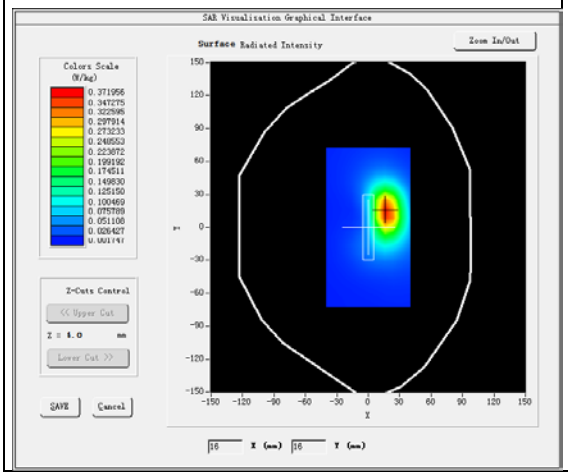
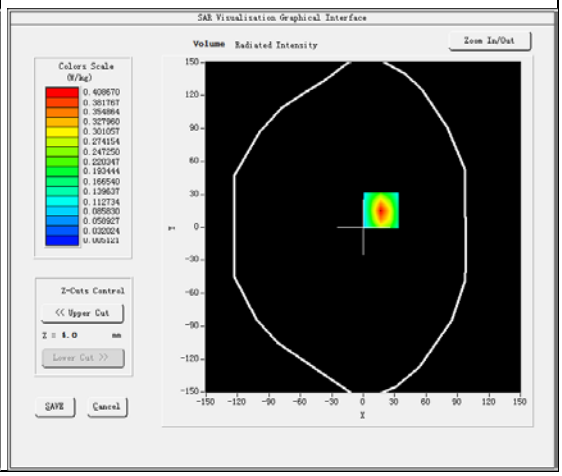
Test Laboratory: AGC Lab **Date: Sep. 06, 2024**
GPRS 1900 Mid-Edge 1 (2up)
DUT: 4G Smart Phone; Type: AGM_H_MAX

Communication System: GPRS-2Slot; Communication System Band: PCS 1900; Duty Cycle: 1:4.2; Conv.F=2.08; Frequency: 1880 MHz; Medium parameters used: f = 1900 MHz; σ= δLmho/m; εr =40.22; ρ= 1000 kg/m³ ;
Phantom section: Flat Section
Ambient temperature (℃): 21.2, Liquid temperature (℃): 20.9

SATIMO Configuration:
- Probe: SSE2; Calibrated: Apr. 30, 2024; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

Configuration/GPRS1900 Mid-Edge 1/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/GPRS1900 Mid-Edge 1/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	Edge 1
Band	PCS 1900
Channels	Middle
Signal	TDMA (Crest factor: 4.0)

SURFACE SAR	VOLUME SAR
	

Maximum location: X=17.00, Y=15.00
SAR Peak: 0.65 W/kg

SAR 10g (W/Kg)	0.187246
SAR 1g (W/Kg)	0.374589

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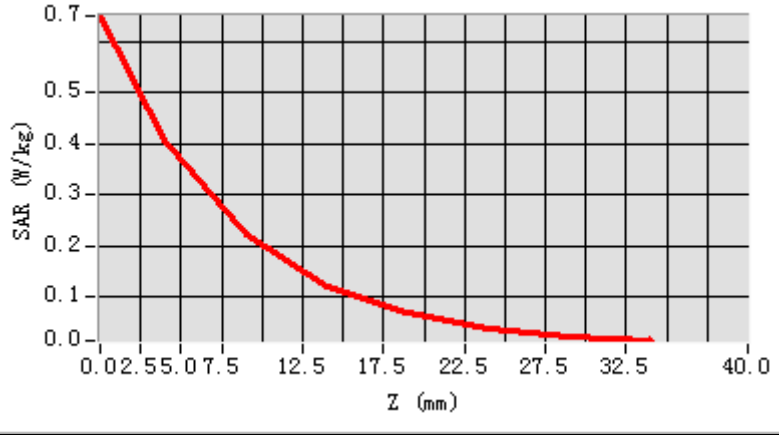
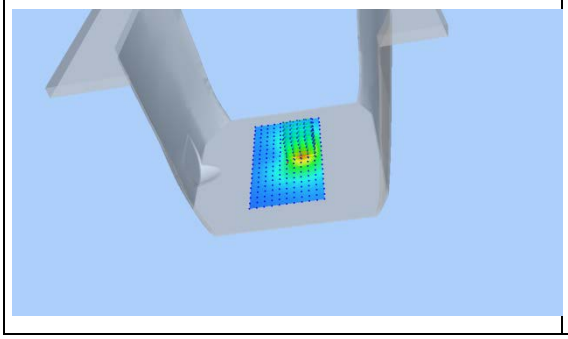
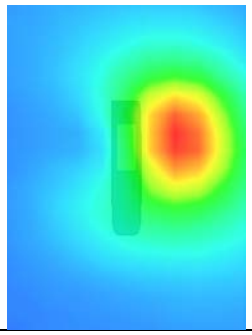
Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.6510	0.4087	0.2208	0.1191	0.0664	0.0385	0.0225



3D screen shot	Hot spot position
	

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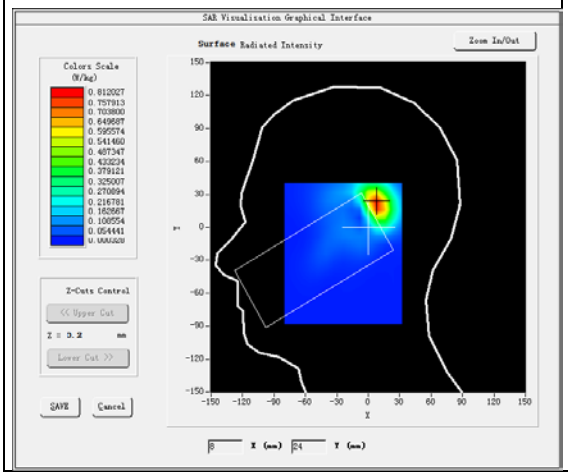
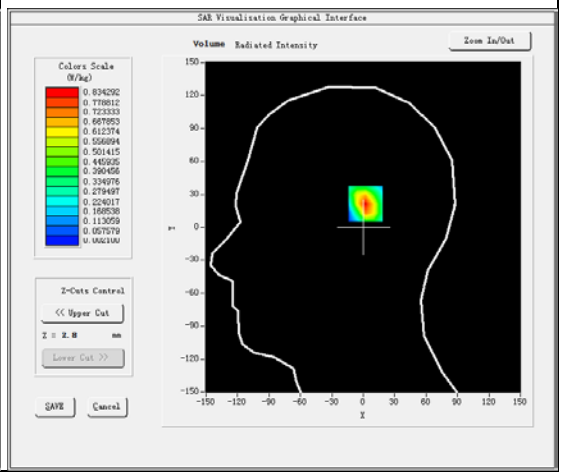
Test Laboratory: AGC Lab **Date: Sep. 06, 2024**
WCDMA Band II Mid-Touch-Right (RMC)
DUT: 4G Smart Phone; Type: AGM_H_MAX

Communication System: UMTS; Communication System Band: Band II UTRA/FDD ;Duty Cycle:1:1; Conv.F=2.08;
Frequency: 1880 MHz; Medium parameters used: f = 1900 MHz; σ= 1.35 mho/m; εr =40.22; ρ= 1000 kg/m³ ;
Phantom section: Right Section
Ambient temperature (℃): 21.2, Liquid temperature (℃): 20.9

SATIMO Configuration:
- Probe: SSE2; Calibrated: Apr. 30, 2024; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

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=8.00, Y=22.00
SAR Peak: 1.38 W/kg

SAR 10g (W/Kg)	0.373953
SAR 1g (W/Kg)	0.778508

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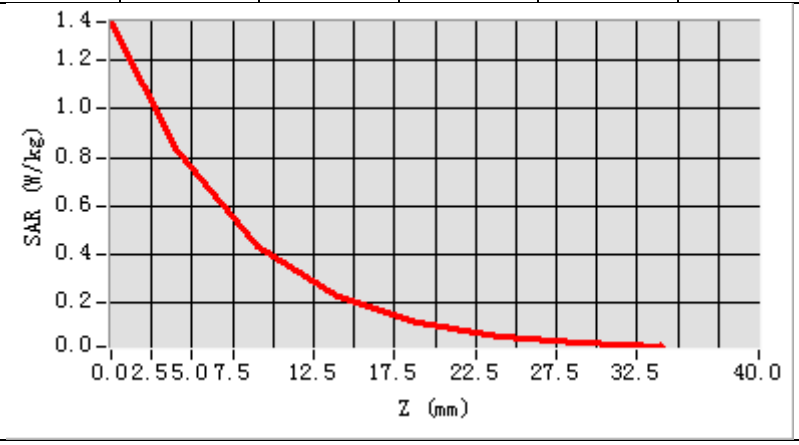
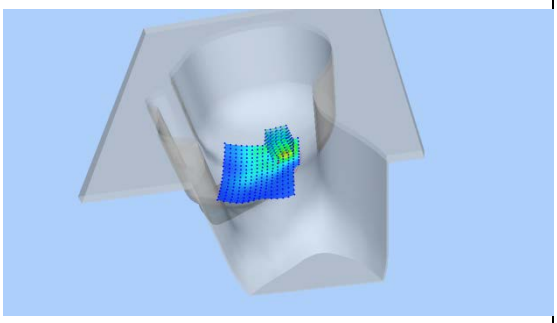
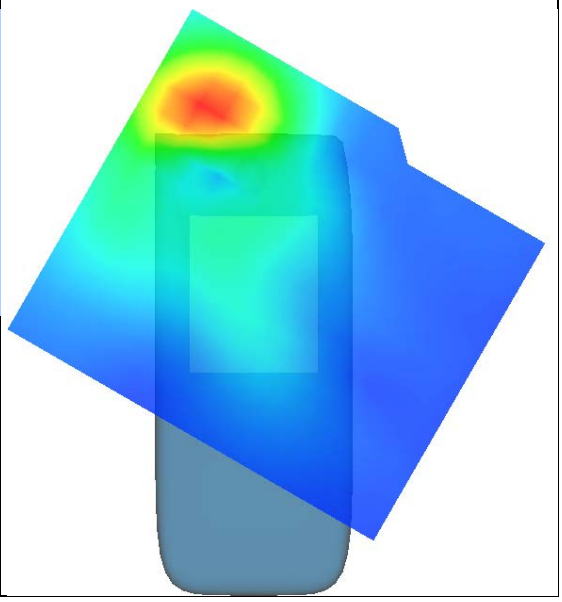
Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.3600	0.8343	0.4336	0.2268	0.1191	0.0621	0.0326



3D screen shot	Hot spot position
	

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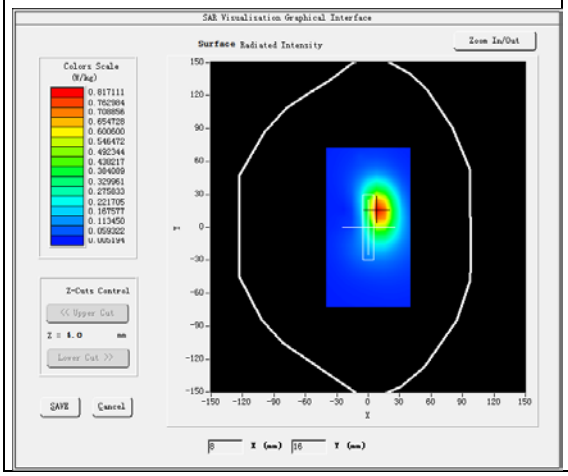
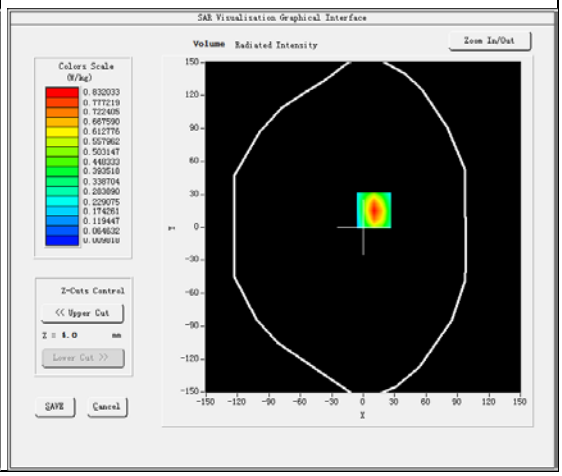
Test Laboratory: AGC Lab **Date: Sep. 06, 2024**
WCDMA Band II Mid-Edge 1(RMC)
DUT: 4G Smart Phone; Type: AGM_H_MAX

Communication System: UMTS; Communication System Band: Band II UTRA/FDD ;Duty Cycle:1:1; Conv.F=2.08
Frequency: 1880 MHz; Medium parameters used: f = 1900 MHz; σ=1.35 mho/m; εr =40.22; ρ= 1000 kg/m³ ;
Phantom section: Flat Section
Ambient temperature (℃): 21.2, Liquid temperature (℃): 20.9

SATIMO Configuration:
- Probe: SSE2; Calibrated: Apr. 30, 2024; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

Configuration/ WCDMA band II Mid-Edge 1/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/ WCDMA band II Mid-Edge 1/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	Edge 1
Band	WCDMA band II
Channels	Middle
Signal	CDMA (Crest factor: 1.0)

SURFACE SAR	VOLUME SAR
	

Maximum location: X=10.00, Y=15.00
SAR Peak: 1.31 W/kg

SAR 10g (W/Kg)	0.394129
SAR 1g (W/Kg)	0.700300

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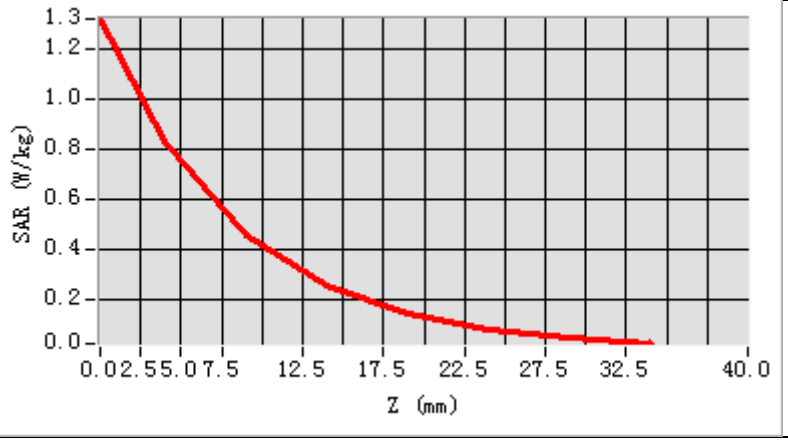
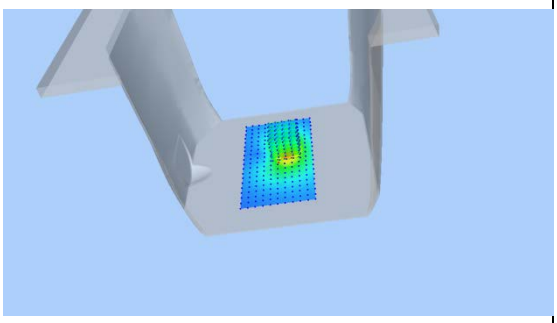
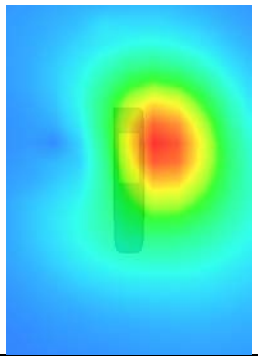
Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.3175	0.8320	0.4551	0.2574	0.1446	0.0820	0.0469



3D screen shot	Hot spot position
	

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Test Laboratory: AGC Lab **Date: Sep. 03, 2024**

WCDMA Band Ⅴ Mid-Touch-Right (RMC)

DUT: 4G Smart Phone; Type: AGM_H_MAX

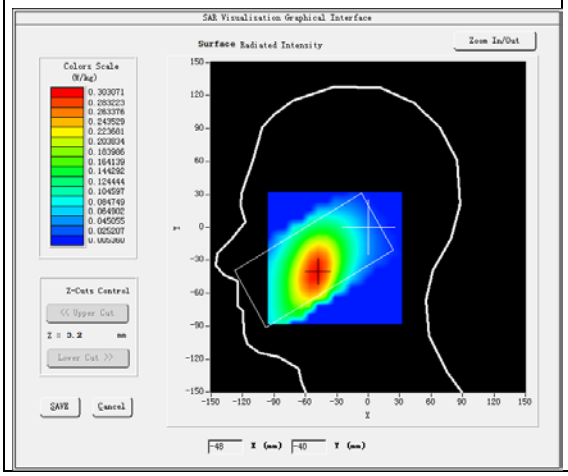
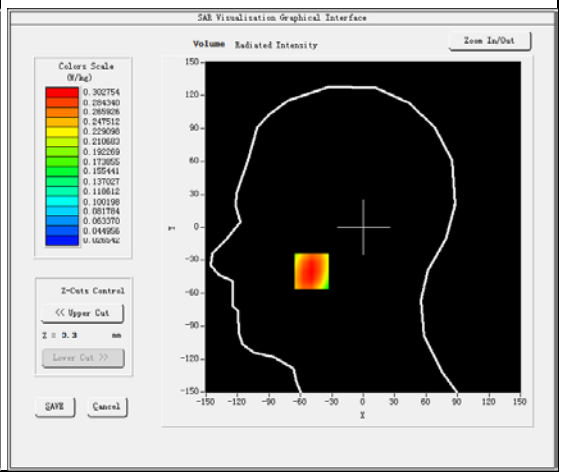
Communication System: UMTS; Communication System Band: BAND V UTRA/FDD ; Duty Cycle:1: 1; Conv.F=1.89; Frequency: 836.4 MHz; Medium parameters used: f = 835MHz; σ=0.93 mho/m; εr =40.71; ρ= 1000 kg/m³ ;
Phantom section: Right Section
Ambient temperature (℃): 21.6, Liquid temperature (℃): 21.2

SATIMO Configuration:

- Probe: SSE2; Calibrated: Apr. 30, 2024; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

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

SURFACE SAR	VOLUME SAR
	

Maximum location: X=-49.00, Y=-40.00
SAR Peak: 0.38 W/kg

SAR 10g (W/Kg)	0.213635
SAR 1g (W/Kg)	0.294300

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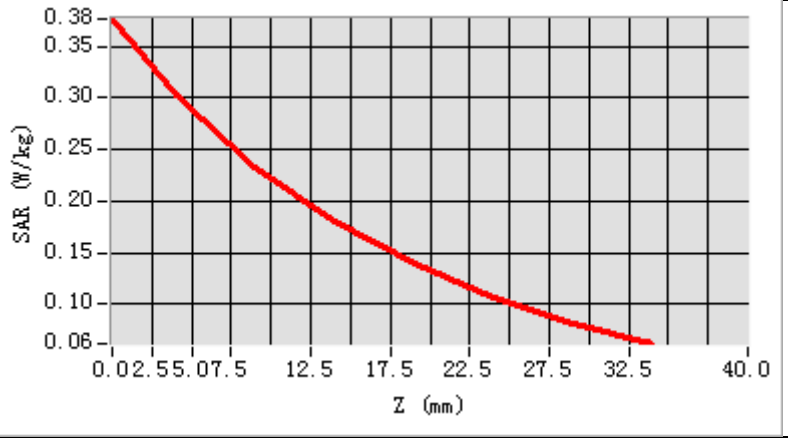
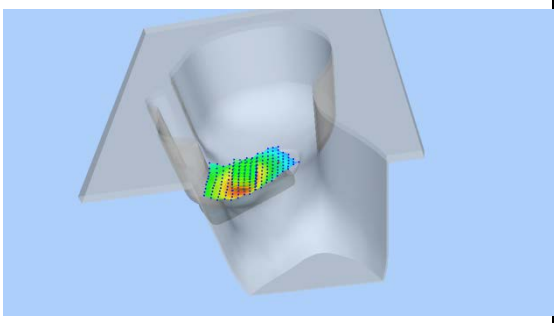
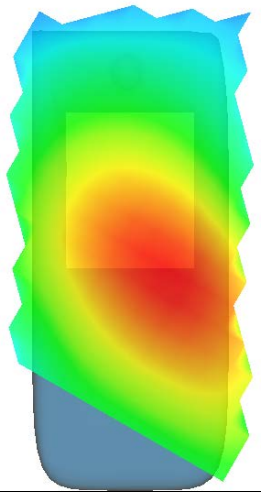
Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.3762	0.3028	0.2323	0.1799	0.1391	0.1074	0.0819



3D screen shot	Hot spot position
	

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Test Laboratory: AGC Lab **Date: Sep. 03, 2024**

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

DUT: 4G Smart Phone; Type: AGM_H_MAX

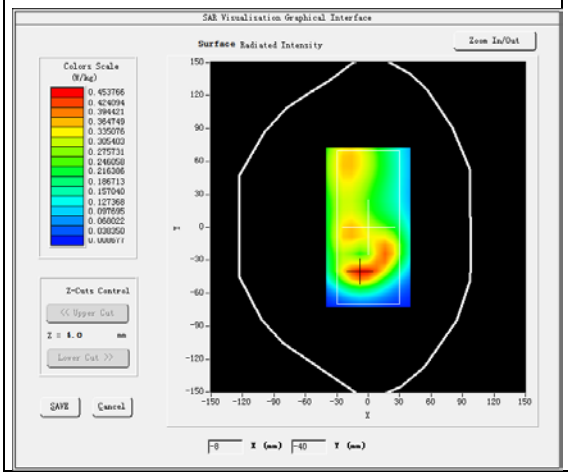
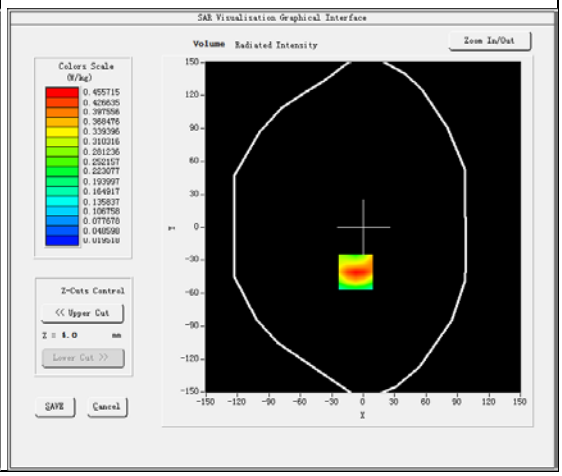
Communication System: UMTS; Communication System Band: BAND V UTRA/FDD; Duty Cycle:1: 1; Conv.F=1.89;
Frequency: 836.4 MHz; Medium parameters used: f = 835MHz; σ= 0.93 mho/m; εr = 40.71; ρ= 1000 kg/m³ ;
Phantom section: Flat Section
Ambient temperature (℃): 21.6, Liquid temperature (℃): 21.2

SATIMO Configuration:

- Probe: SSE2; Calibrated: Apr. 30, 2024; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

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

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

SURFACE SAR	VOLUME SAR
	

Maximum location: X=-7.00, Y=-41.00
SAR Peak: 0.70 W/kg

SAR 10g (W/Kg)	0.241130
SAR 1g (W/Kg)	0.430979

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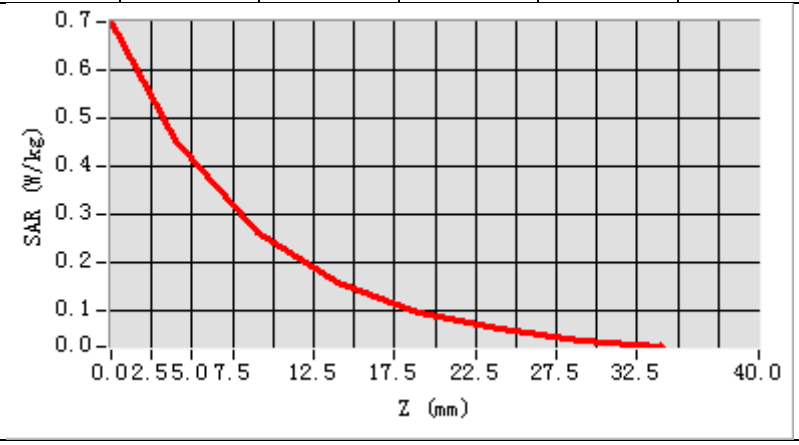
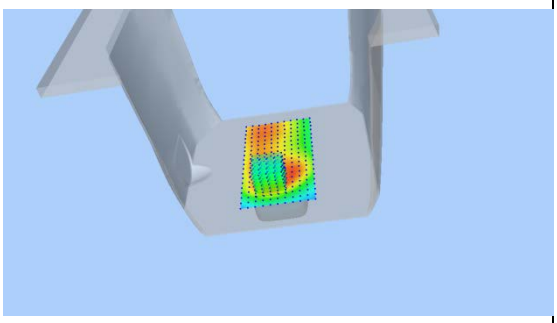
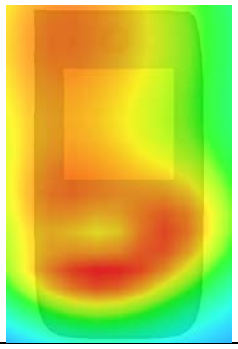
Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.6985	0.4557	0.2643	0.1601	0.0990	0.0631	0.0410



3D screen shot	Hot spot position
	

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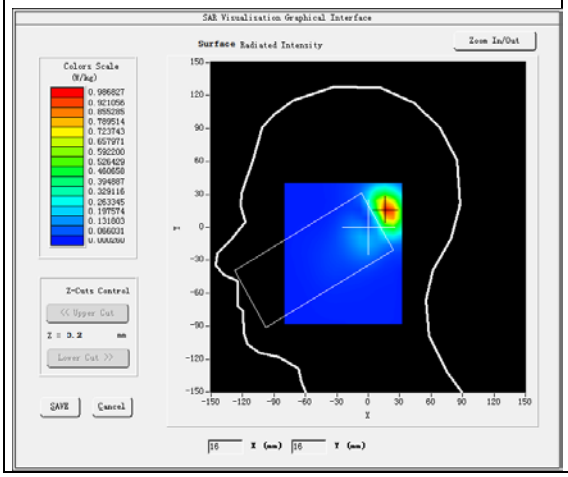
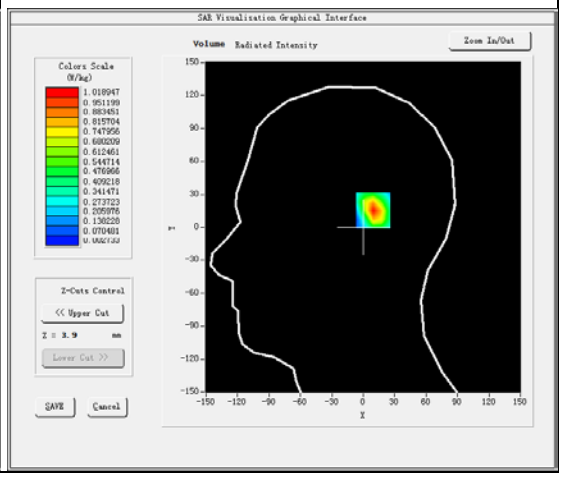
Test Laboratory: AGC Lab **Date: Sep. 06, 2024**
LTE Band 2 Low- Tilt - Right (1 RB#0)
DUT: 4G Smart Phone; Type: AGM_H_MAX

Communication System: LTE; Communication System Band: LTE Band 2; Duty Cycle:1:1; Conv.F=2.08; Frequency:1860MHz; Medium parameters used: f =1900 MHz; σ= 1.33mho/m; εr =41.65; ρ= 1000 kg/m³ ;
Phantom section: Right Section
Ambient temperature (℃): 21.2, Liquid temperature (℃): 20.9

SATIMO Configuration:
- Probe: SSE2; Calibrated: Apr. 30, 2024; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

Configuration/ LTE Band 2 Low - Tilt - Right /Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/ LTE Band 2 Low - Tilt - 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	Tilt
Band	LTE Band 2
Channels	Low
Signal	OFDM (Crest factor: 1.0)

SURFACE SAR	VOLUME SAR
	

Maximum location: X=18.00, Y=15.00
SAR Peak: 1.66 W/kg

SAR 10g (W/Kg)	0.456295
SAR 1g (W/Kg)	0.945163

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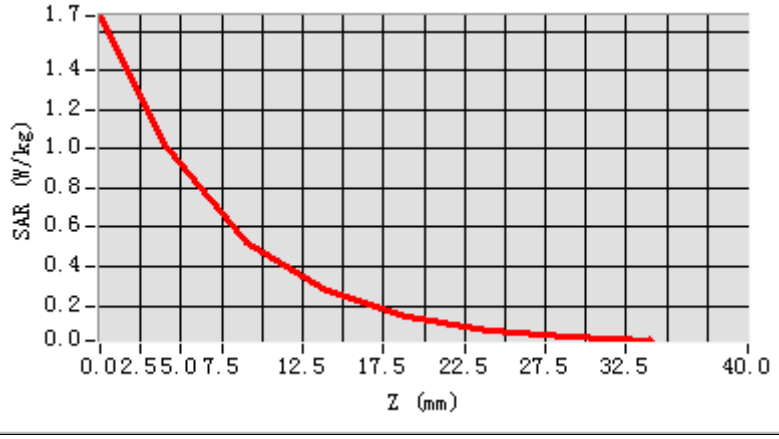
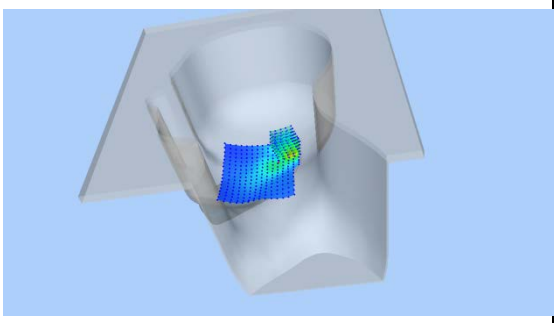
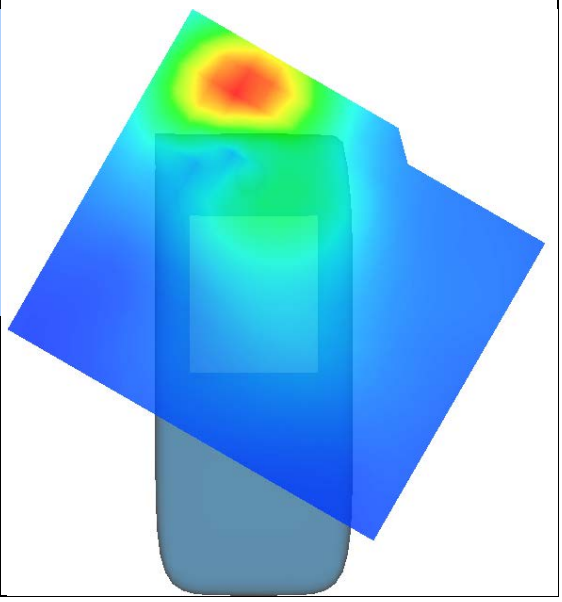
Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.6780	1.0189	0.5189	0.2794	0.1418	0.0767	0.0424



3D screen shot	Hot spot position
	

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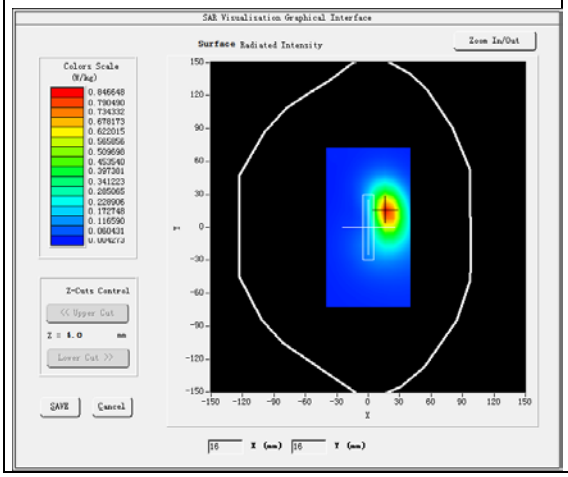
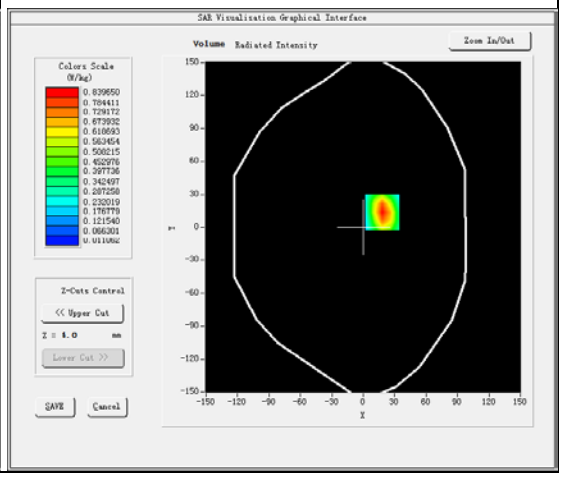
Test Laboratory: AGC Lab **Date: Sep. 06, 2024**
LTE Band 2 Low- Edge 1 (Top) (1 RB#0)
DUT: 4G Smart Phone; Type: AGM_H_MAX

Communication System: LTE; Communication System Band: LTE Band 2; Duty Cycle:1:1; Conv.F=2.08; Frequency:1860MHz; Medium parameters used: f = 1900 MHz; σ= 1.33mho/m; εr =41.65; ρ= 1000 kg/m³ ;
Phantom section: Flat Section
Ambient temperature (℃): 21.2, Liquid temperature (℃): 20.9

SATIMO Configuration:
- Probe: SSE2; Calibrated: Apr. 30, 2024; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

Configuration/ LTE Band 2 Low - Edge 1 (Top)/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/ LTE Band 2 Low - Edge 1 (Top)/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	Edge 1 (Top)
Band	LTE Band 2
Channels	Low
Signal	OFDM (Crest factor: 1.0)

SURFACE SAR	VOLUME SAR
	

Maximum location: X=18.00, Y=14.00
SAR Peak: 1.33 W/kg

SAR 10g (W/Kg)	0.402318
SAR 1g (W/Kg)	0.784352

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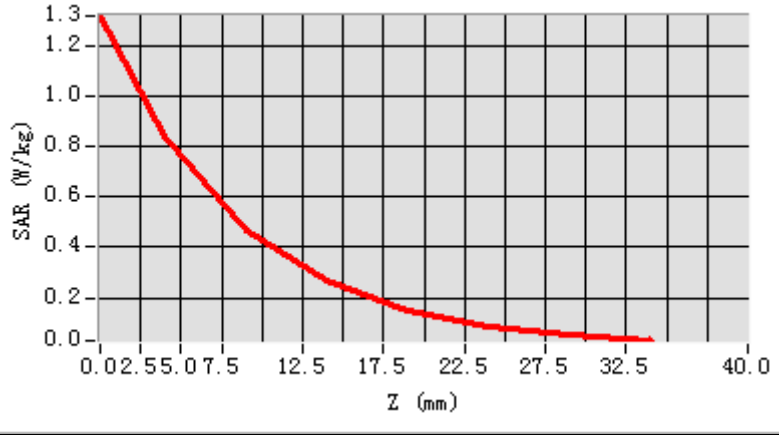
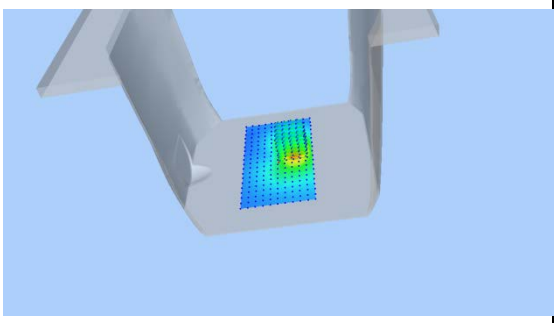
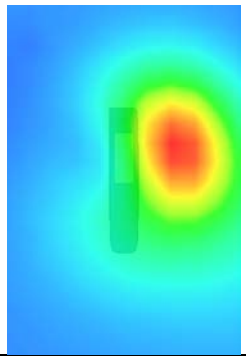
Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.3199	0.8397	0.4651	0.2680	0.1523	0.0868	0.0497



3D screen shot	Hot spot position
	

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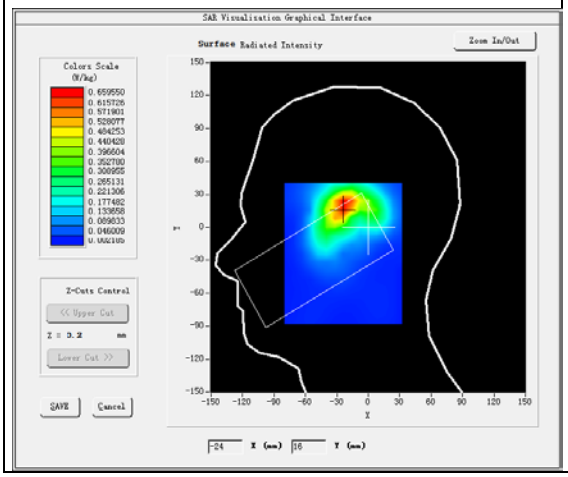
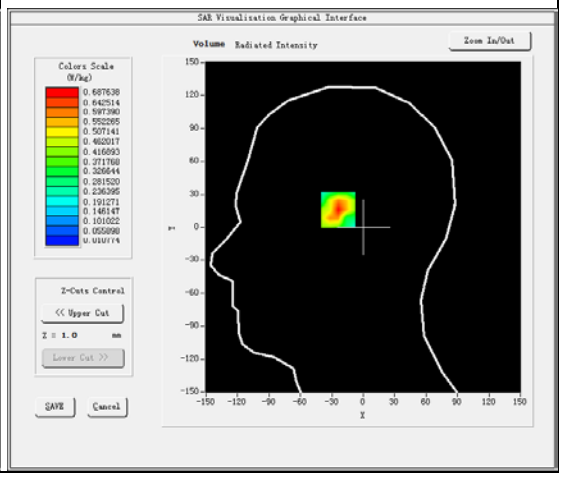
Test Laboratory: AGC Lab **Date: Sep. 05, 2024**
LTE Band 4 Mid-Touch-Right (1 RB#0)
DUT: 4G Smart Phone; Type: AGM_H_MAX

Communication System: LTE; Communication System Band: LTE Band 4; Duty Cycle:1:1; Conv.F=2.28; Frequency:1732.5 MHz; Medium parameters used: f =1750 MHz; σ= 1.37 mho/m; εr =40.79; ρ= 1000 kg/m³ ;
Phantom section: Right Section
Ambient temperature (℃): 20.9, Liquid temperature (℃): 20.8

SATIMO Configuration:
- Probe: SSE2; Calibrated: Apr. 30, 2024; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

Configuration/ LTE Band 4 Mid- Touch-Right /Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/ LTE Band 4 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 4
Channels	Middle
Signal	OFDM (Crest factor: 1.0)

SURFACE SAR	**VOLUME SAR**
	

Maximum location: X=-23.00, Y=19.00
SAR Peak: 1.23 W/kg

SAR 10g (W/Kg)	0.324029
SAR 1g (W/Kg)	0.651405

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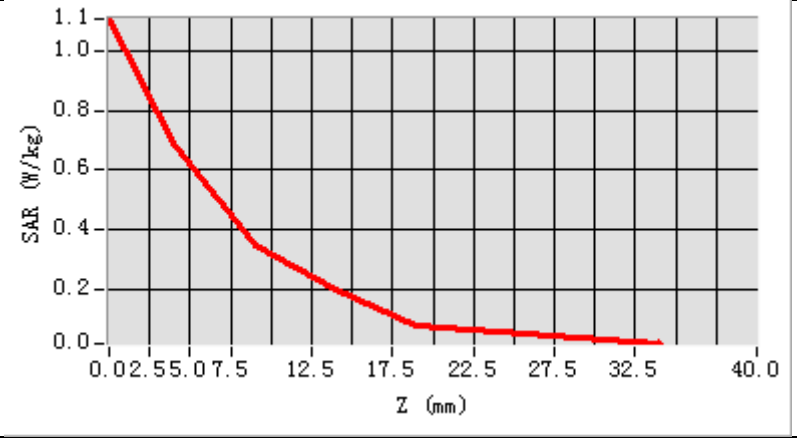
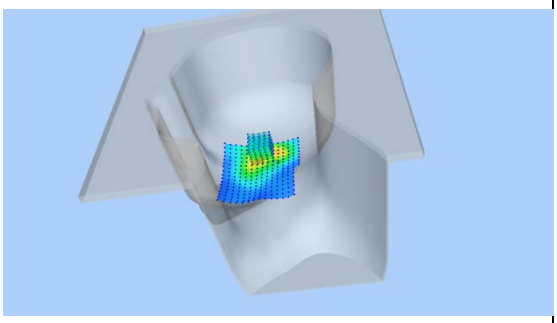
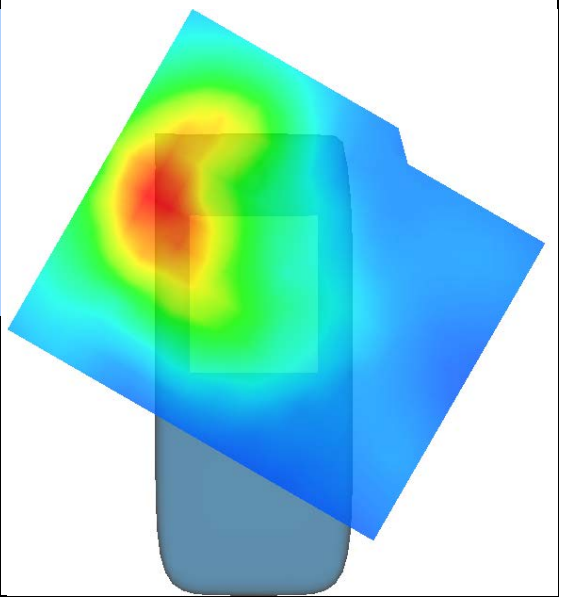
Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.1082	0.6876	0.3448	0.1975	0.0740	0.0590	0.0331



3D screen shot	Hot spot position
	

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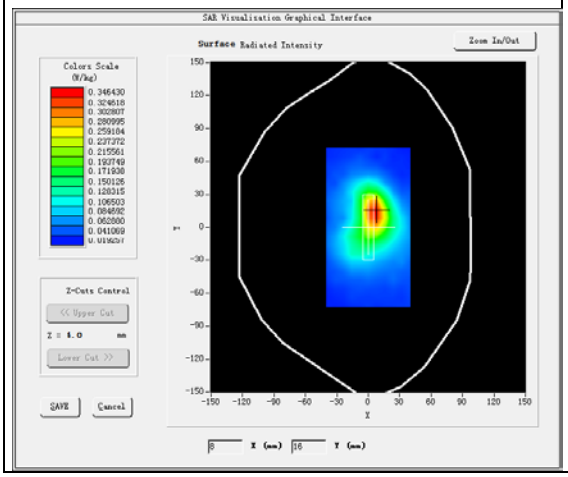
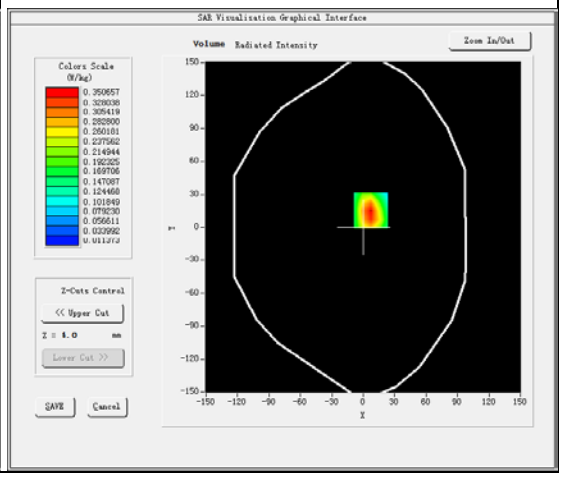
Test Laboratory: AGC Lab **Date: Sep. 05, 2024**
LTE Band 4 Mid-Edge 1 (Top) (1 RB#0)
DUT: 4G Smart Phone; Type: AGM_H_MAX

Communication System: LTE; Communication System Band: LTE Band 4; Duty Cycle:1:1; Conv.F=2.28; Frequency:1732.5 MHz; Medium parameters used: f = 1750 MHz; σ= 1.37 mho/m; εr =40.79; ρ= 1000 kg/m³ ;
Phantom section: Flat Section
Ambient temperature (℃): 20.9, Liquid temperature (℃): 20.8

SATIMO Configuration:
- Probe: SSE2; Calibrated: Apr. 30, 2024; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

Configuration/ LTE Band 4 Mid-Edge 1 (Top)/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/ LTE Band 4 Mid-Edge 1 (Top)/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	Edge 1 (Top)
Band	LTE Band 4
Channels	Middle
Signal	OFDM (Crest factor: 1.0)

SURFACE SAR	VOLUME SAR
	

Maximum location: X=7.00, Y=15.00
SAR Peak: 0.54 W/kg

SAR 10g (W/Kg)	0.187309
SAR 1g (W/Kg)	0.336127

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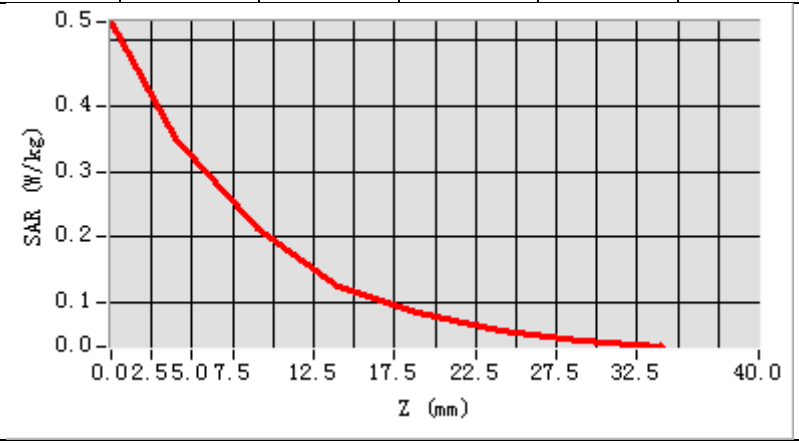
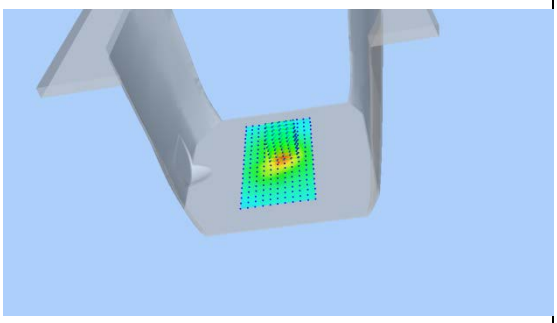
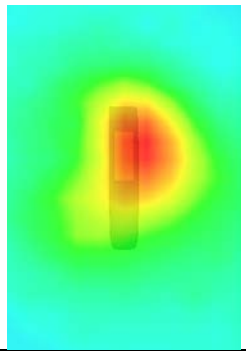
Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.5290	0.3507	0.2118	0.1248	0.0854	0.0574	0.0397



3D screen shot	Hot spot position
	

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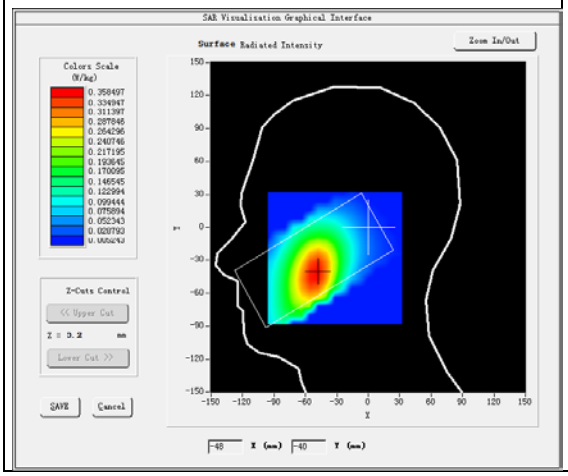
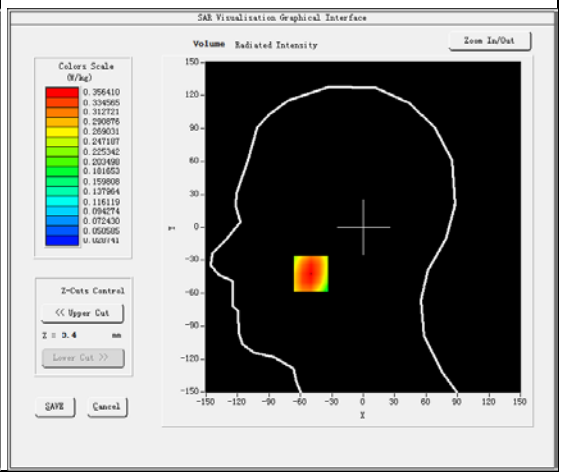
Test Laboratory: AGC Lab **Date: Sep. 03, 2024**
LTE Band 5 Mid-Touch-Right (1 RB#0)
DUT: 4G Smart Phone; Type: AGM_H_MAX

Communication System: LTE; Communication System Band: LTE Band 5; Duty Cycle:1:1; Conv.F=1.89
Frequency: 836.5 MHz; Medium parameters used: f = 835 MHz; σ=0.93 mho/m; εr =40.71; ρ= 1000 kg/m³ ;
Phantom section: Right Section
Ambient temperature (℃): 21.6, Liquid temperature (℃): 21.2

SATIMO Configuration:
Probe: SSE2; Calibrated: Apr. 30, 2024; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

Configuration/ LTE Band 5 Mid- Touch-Right /Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/ LTE Band 5 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 5
Channels	Middle
Signal	OFDM (Crest factor: 1.0)

SURFACE SAR	VOLUME SAR
	

Maximum location: X=-50.00, Y=-42.00
SAR Peak: 0.45 W/kg

SAR 10g (W/Kg)	0.247868
SAR 1g (W/Kg)	0.342866

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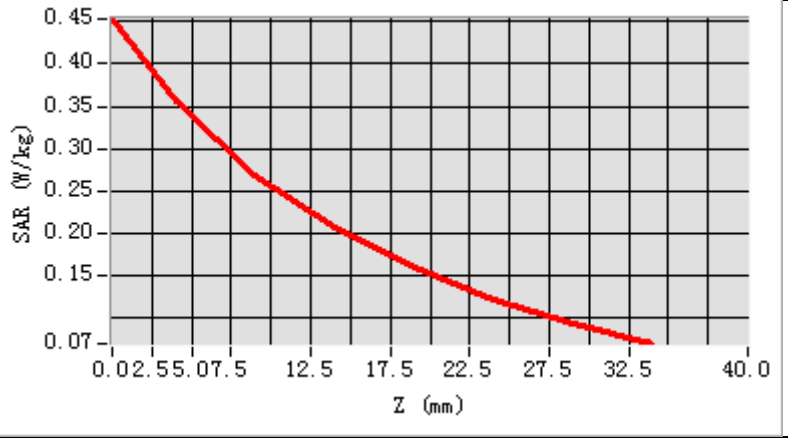
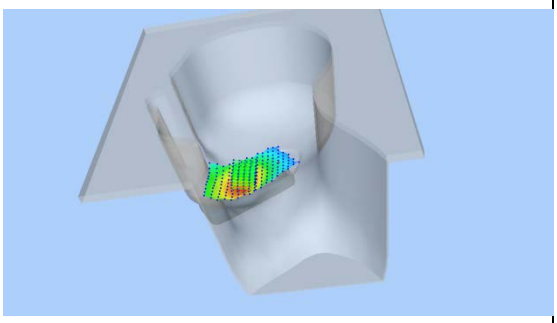
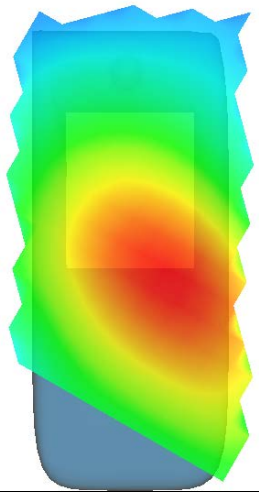
Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.4533	0.3564	0.2677	0.2060	0.1588	0.1217	0.0928



3D screen shot	Hot spot position
	

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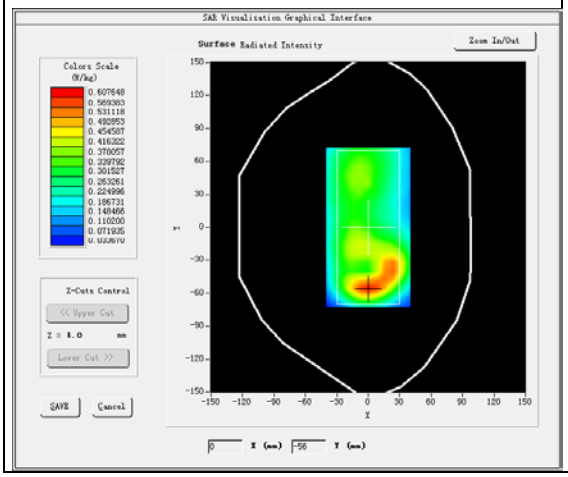
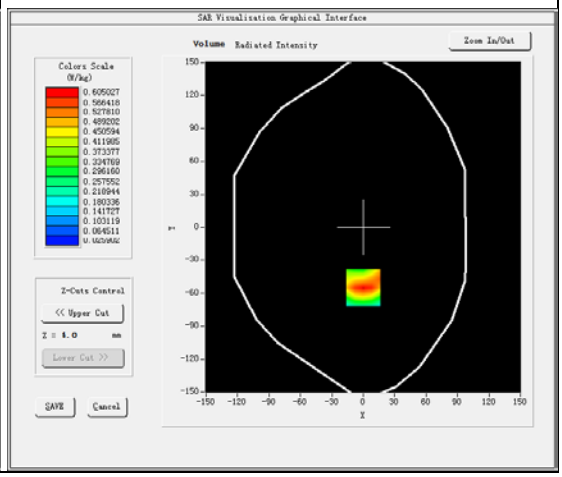
Test Laboratory: AGC Lab **Date: Sep. 03, 2024**
LTE Band 5 Mid-Body-Back (1 RB#0)
DUT: 4G Smart Phone; Type: AGM_H_MAX

Communication System: LTE; Communication System Band: LTE Band 5; Duty Cycle:1:1; Conv.F=1.89
Frequency:836.5 MHz; Medium parameters used: f = 835 MHz; σ=δEmho/m; εr =40.71; ρ= 1000 kg/m³ ;
Phantom section: Flat Section
Ambient temperature (℃): 21.6, Liquid temperature (℃): 21.2

SATIMO Configuration:
- Probe: SSE2; Calibrated: Apr. 30, 2024; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

Configuration/ LTE Band 5 Mid-Body-Back/Area Scan: Measurement grid: dx=8mm, dy=8mm
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=0.00, Y=-55.00
SAR Peak: 0.94 W/kg

SAR 10g (W/Kg)	0.321005
SAR 1g (W/Kg)	0.571679

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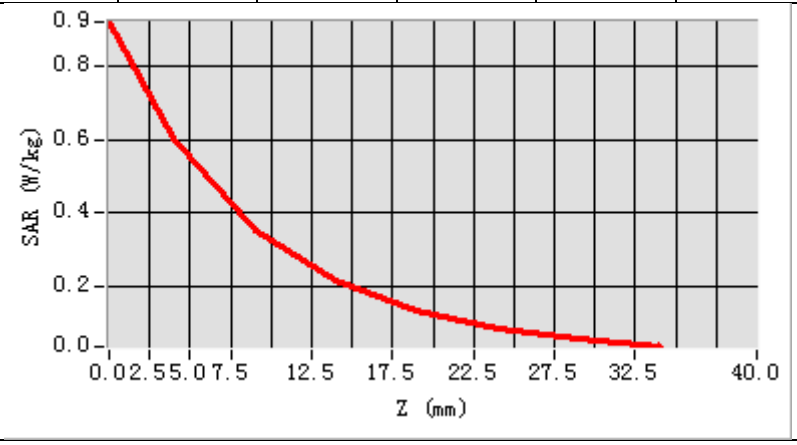
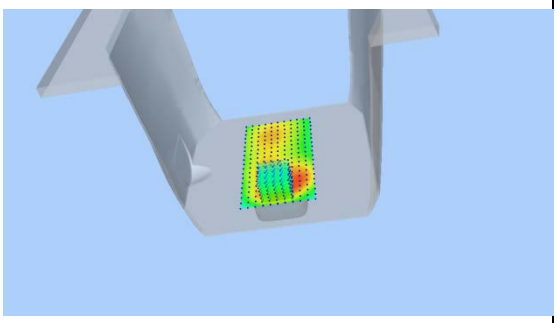
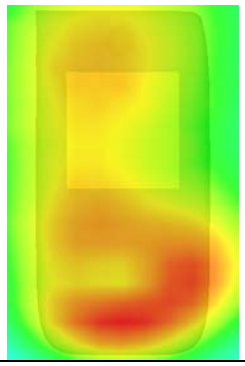
Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.9220	0.6050	0.3545	0.2178	0.1365	0.0881	0.0574



3D screen shot	Hot spot position
	

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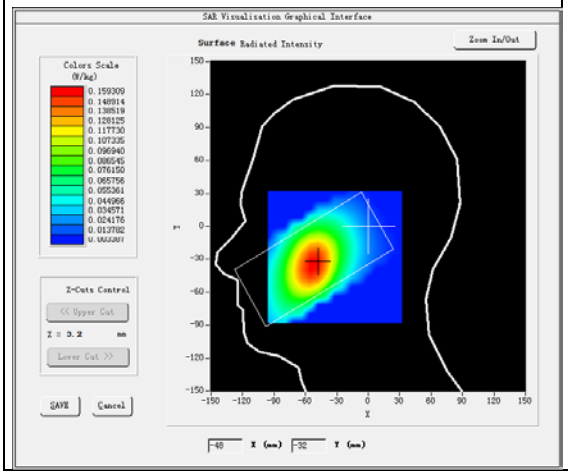
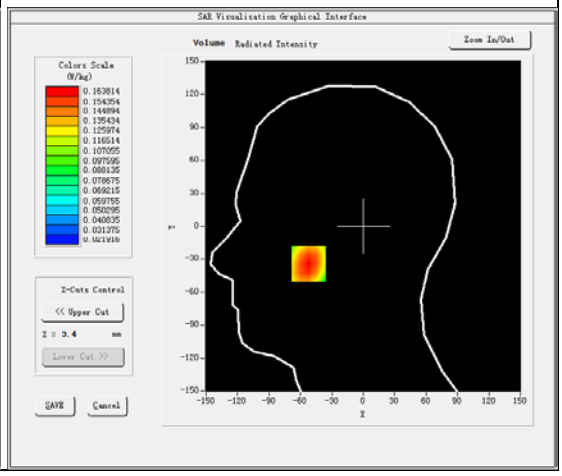
Test Laboratory: AGC Lab **Date: Sep. 04, 2024**
LTE Band 12 Mid-Touch-Right (1 RB#0)
DUT: 4G Smart Phone; Type: AGM_H_MAX

Communication System: LTE; Communication System Band: LTE Band 12; Duty Cycle:1:1; Conv.F=2.04
Frequency: 707.5 MHz; Medium parameters used: f = 750 MHz; σ=0.88 mho/m; εr =44.69; ρ= 1000 kg/m³ ;
Phantom section: Right Section
Ambient temperature (℃): 21.2, Liquid temperature (℃): 21.0

SATIMO Configuration:
- Probe: SSE2; Calibrated: Apr. 30, 2024; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

Configuration/ LTE Band 12 Mid- Touch-Right /Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/ LTE Band 12 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 12
Channels	Middle
Signal	OFDM (Crest factor: 1.0)

SURFACE SAR	VOLUME SAR
	

Maximum location: X=-52.00, Y=-34.00
SAR Peak: 0.20 W/kg

SAR 10g (W/Kg)	0.120469
SAR 1g (W/Kg)	0.162432

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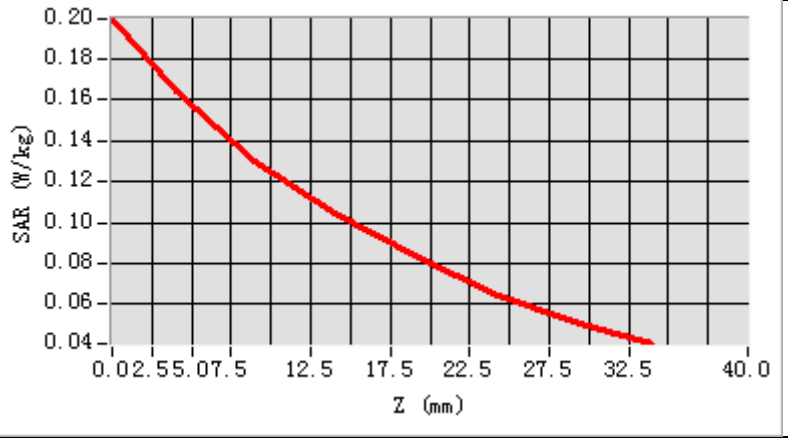
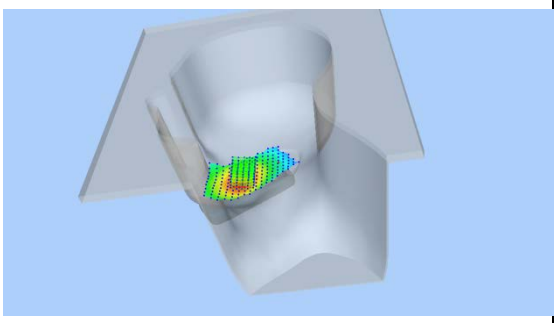
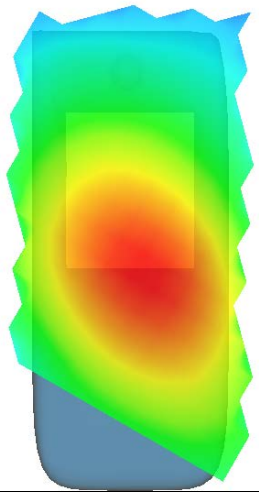
Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.1995	0.1638	0.1299	0.1045	0.0838	0.0652	0.0514



3D screen shot	Hot spot position
	

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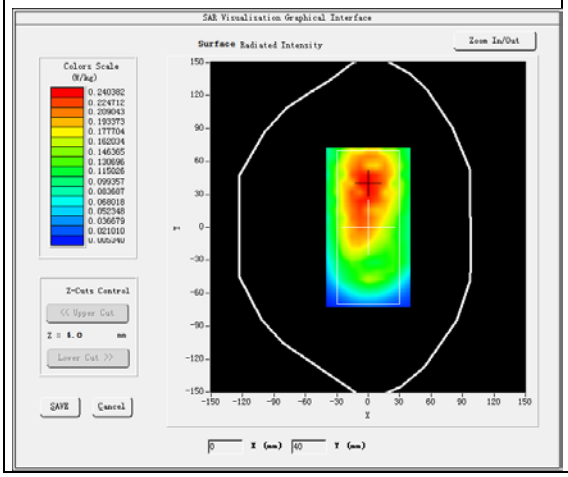
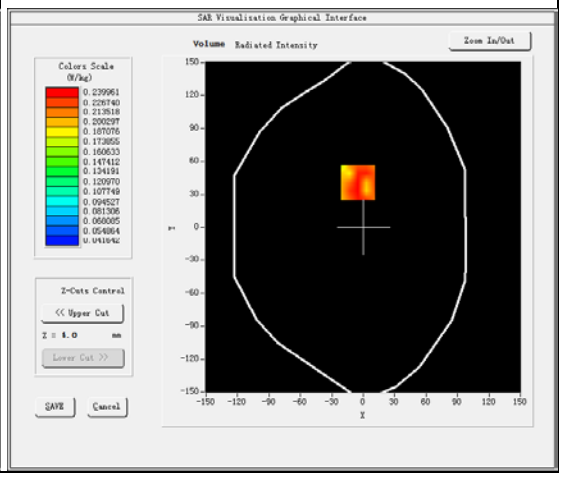
Test Laboratory: AGC Lab **Date: Sep. 04, 2024**
LTE Band 12 Mid-Body-Back (1 RB#0)
DUT: 4G Smart Phone; Type: AGM_H_MAX

Communication System: LTE; Communication System Band: LTE Band 12; Duty Cycle:1:1; Conv.F=2.04;
Frequency: 707.5 MHz; Medium parameters used: f = 750 MHz; σ=0.88 mho/m; εr =44.69; ρ= 1000 kg/m³ ;
Phantom section: Flat Section
Ambient temperature (℃): 21.2, Liquid temperature (℃): 21.0

SATIMO Configuration:
- Probe: SSE2; Calibrated: Apr. 30, 2024; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

Configuration/ LTE Band 12 Mid-Body-Back/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/ LTE Band 12 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 12
Channels	Middle
Signal	OFDM (Crest factor: 1.0)

SURFACE SAR	**VOLUME SAR**
	

Maximum location: X=-5.00, Y=41.00
SAR Peak: 0.37 W/kg

SAR 10g (W/Kg)	0.176390
SAR 1g (W/Kg)	0.245404

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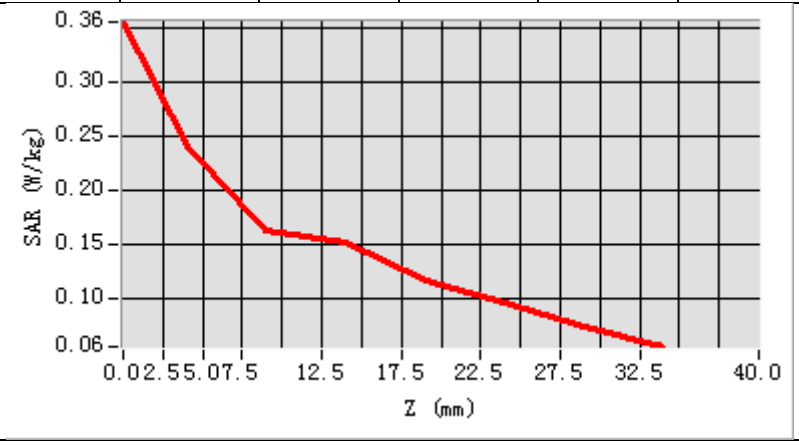
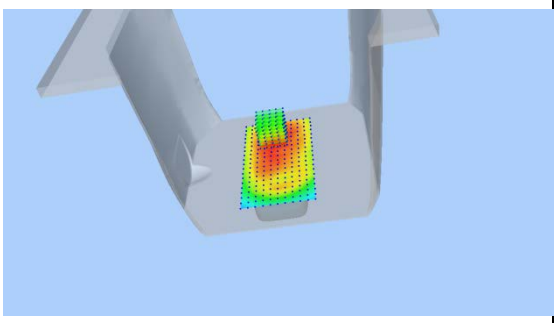
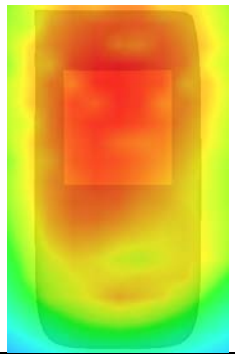
Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.3555	0.2400	0.1621	0.1520	0.1168	0.0967	0.0741



3D screen shot	Hot spot position
	

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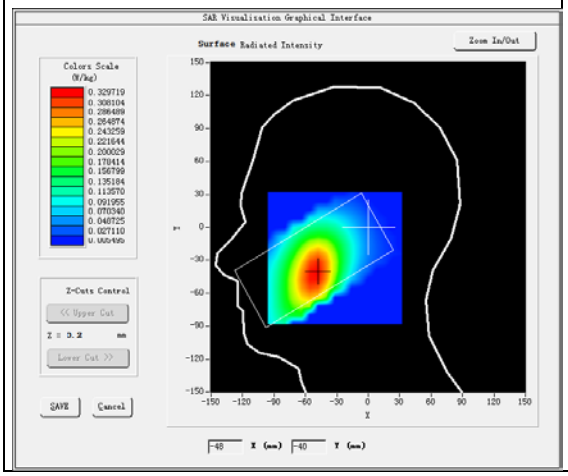
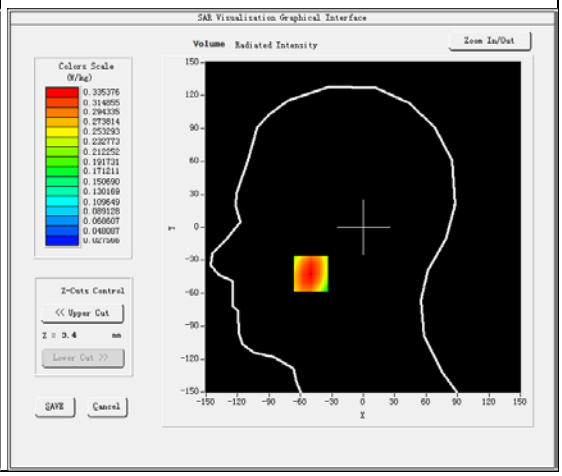
Test Laboratory: AGC Lab **Date: Sep. 03, 2024**
LTE Band 26a Mid-Touch-Right (1 RB#0)
DUT: 4G Smart Phone; Type: AGM_H_MAX

Communication System: LTE; Communication System Band: LTE Band 26a; Duty Cycle:1:1; Conv.F=1.89
Frequency: 836.5 MHz; Medium parameters used: f = 835 MHz; σ=0.93 mho/m; εr =40.71; ρ= 1000 kg/m³ ;
Phantom section: Right Section
Ambient temperature (℃): 21.6, Liquid temperature (℃): 21.2

SATIMO Configuration:
Probe: SSE2; Calibrated: Apr. 30, 2024; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

Configuration/ LTE Band 26a Mid- Touch-Right /Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/ LTE Band 26a 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 26a
Channels	Middle
Signal	OFDM (Crest factor: 1.0)

SURFACE SAR	VOLUME SAR
	

Maximum location: X=-50.00, Y=-42.00
SAR Peak: 0.42 W/kg

SAR 10g (W/Kg)	0.234522
SAR 1g (W/Kg)	0.324699

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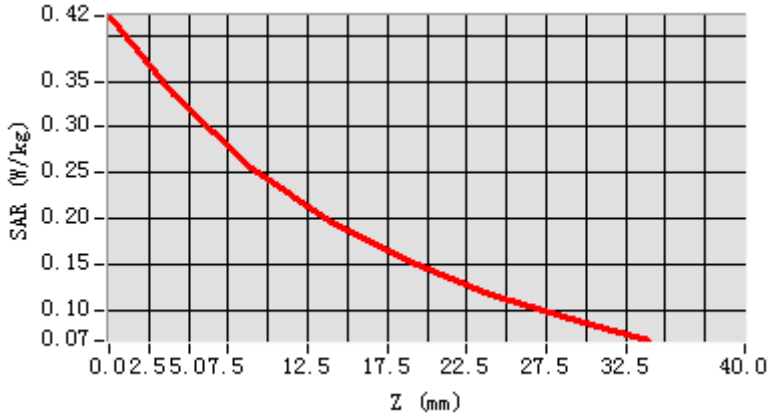
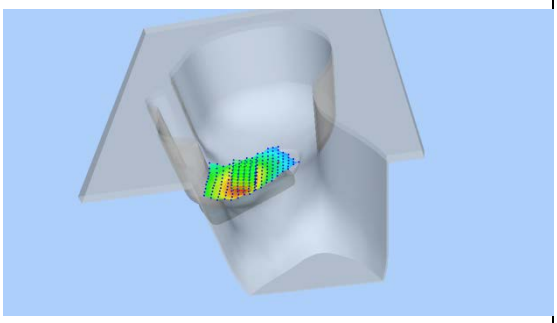
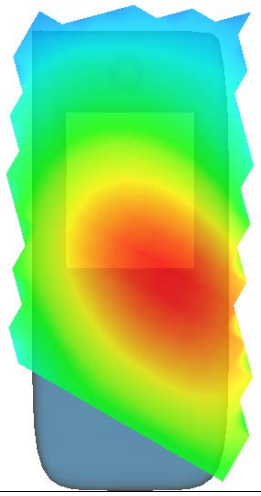
Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.4211	0.3354	0.2545	0.1966	0.1519	0.1169	0.0897



3D screen shot	Hot spot position
	

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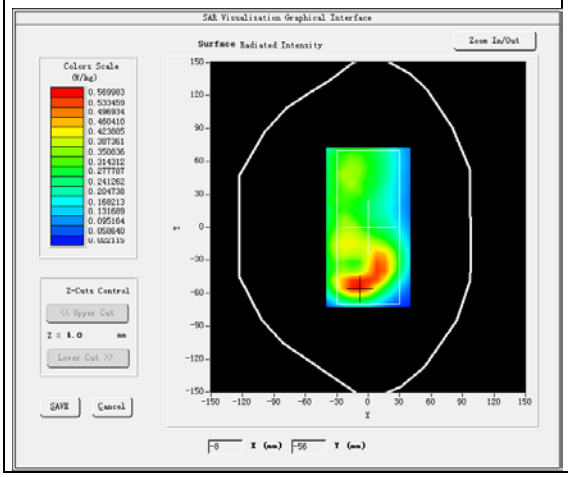
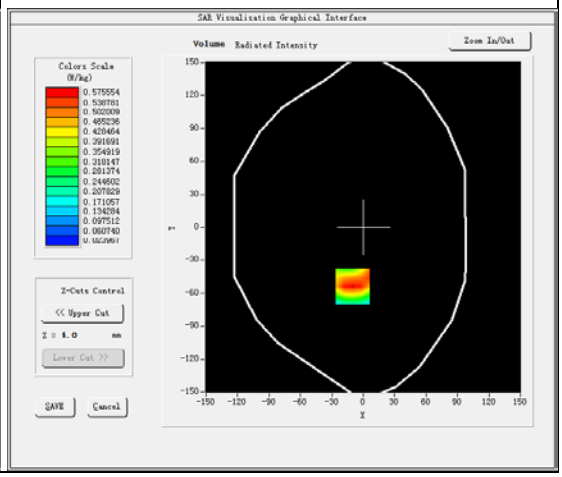
Test Laboratory: AGC Lab **Date: Sep. 03, 2024**
LTE Band 26a Mid-Body-Back (1 RB#0)
DUT: 4G Smart Phone; Type: AGM_H_MAX

Communication System: LTE; Communication System Band: LTE Band 26a; Duty Cycle:1:1; Conv.F=1.89
Frequency:836.5 MHz; Medium parameters used: f = 835 MHz; σ=0.93 mho/m; εr =40.71; ρ= 1000 kg/m³ ;
Phantom section: Flat Section
Ambient temperature (℃): 21.6, Liquid temperature (℃): 21.2

SATIMO Configuration:
- Probe: SSE2; Calibrated: Apr. 30, 2024; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

Configuration/ LTE Band 26a Mid-Body-Back/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/ LTE Band 26a 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 26a
Channels	Middle
Signal	OFDM (Crest factor: 1.0)

SURFACE SAR	**VOLUME SAR**
	

Maximum location: X=-10.00, Y=-54.00
SAR Peak: 0.89 W/kg

SAR 10g (W/Kg)	0.311030
SAR 1g (W/Kg)	0.552692

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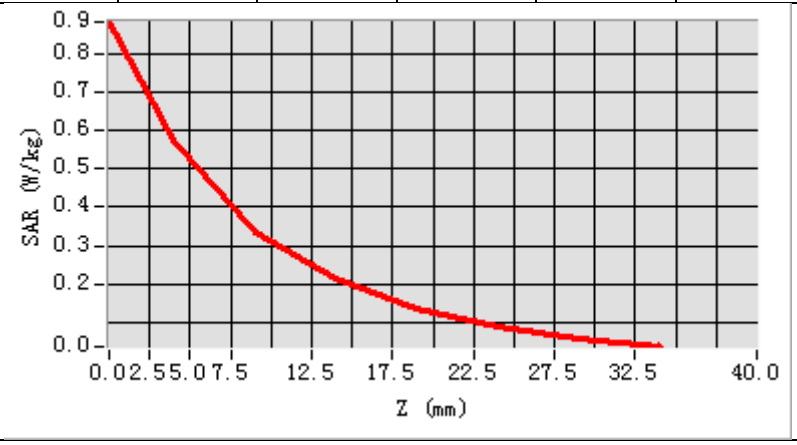
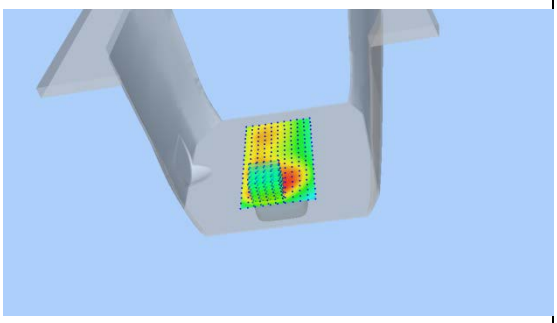
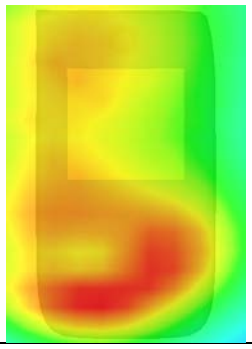
Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.8834	0.5756	0.3364	0.2135	0.1347	0.0867	0.0563



3D screen shot	Hot spot position
	

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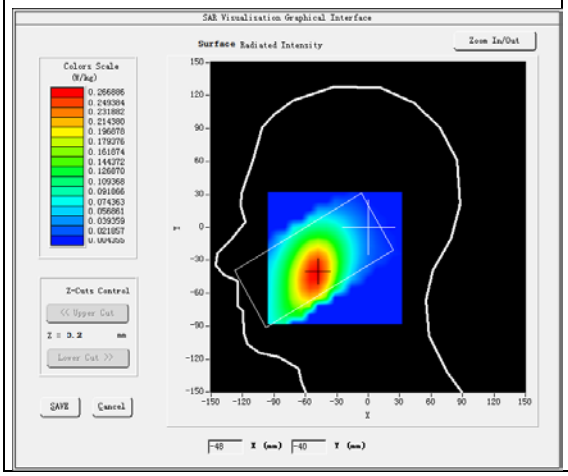
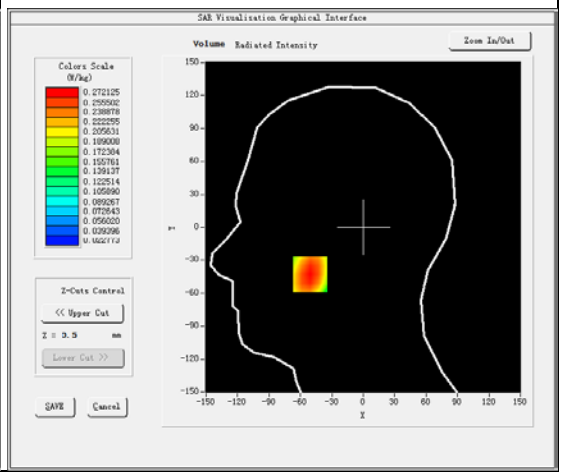
Test Laboratory: AGC Lab **Date: Sep. 03, 2024**
LTE Band 26b Mid-Touch-Right (1 RB#0)
DUT: 4G Smart Phone; Type: AGM_H_MAX

Communication System: LTE; Communication System Band: LTE Band 26b; Duty Cycle:1:1; Conv.F=1.89
Frequency: 821.5 MHz; Medium parameters used: f = 835 MHz; σ=0.88 mho/m; εr =42.36; ρ= 1000 kg/m³ ;
Phantom section: Right Section
Ambient temperature (℃): 21.6, Liquid temperature (℃): 21.2

SATIMO Configuration:
Probe: SSE2; Calibrated: Apr. 30, 2024; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

Configuration/ LTE Band 26b Mid- Touch-Right /Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/ LTE Band 26b 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 26b
Channels	Middle
Signal	OFDM (Crest factor: 1.0)

SURFACE SAR	VOLUME SAR
	

Maximum location: X=-51.00, Y=-43.00
SAR Peak: 0.34 W/kg

SAR 10g (W/Kg)	0.190641
SAR 1g (W/Kg)	0.263464

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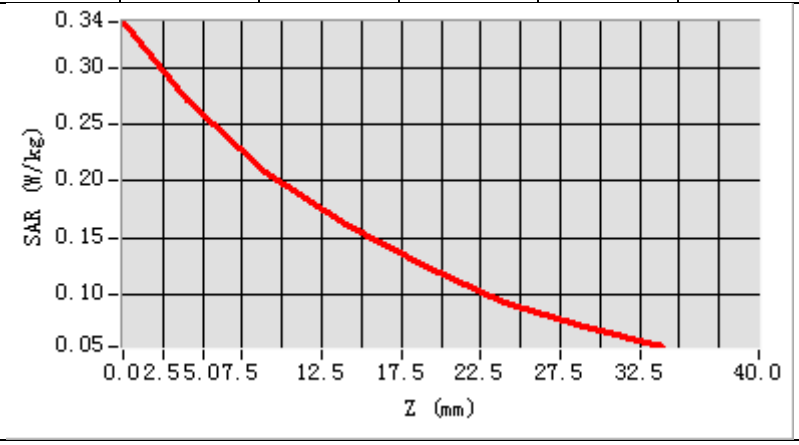
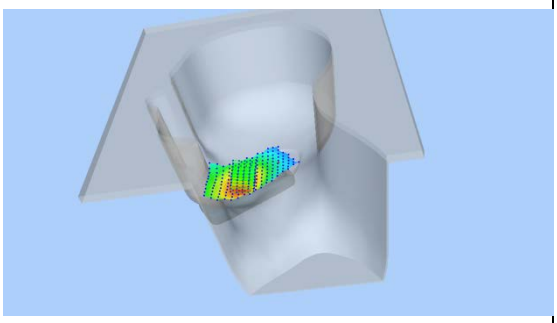
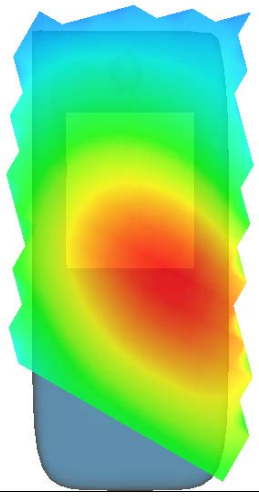
Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.3399	0.2721	0.2080	0.1614	0.1249	0.0943	0.0723



3D screen shot	Hot spot position
	

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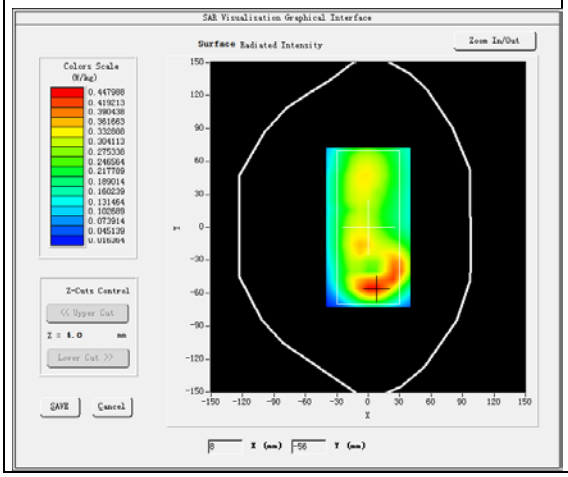
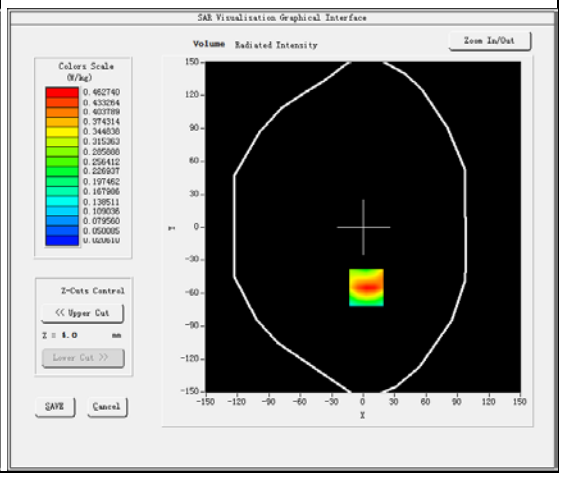
Test Laboratory: AGC Lab **Date: Sep. 03, 2024**
LTE Band 26b Mid-Body-Back (1 RB#0)
DUT: 4G Smart Phone; Type: AGM_H_MAX

Communication System: LTE; Communication System Band: LTE Band 26b; Duty Cycle:1:1; Conv.F=1.89
Frequency: 821.5 MHz; Medium parameters used: f = 835 MHz; σ=0.88 mho/m; εr =42.36; ρ= 1000 kg/m³ ;
Phantom section: Flat Section
Ambient temperature (℃): 21.6, Liquid temperature (℃): 21.2

SATIMO Configuration:
- Probe: SSE2; Calibrated: Apr. 30, 2024; Serial No.: 2023-EPGO-414
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

Configuration/ LTE Band 26b Mid-Body-Back/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/ LTE Band 26b 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 26b
Channels	Middle
Signal	OFDM (Crest factor: 1.0)

SURFACE SAR	**VOLUME SAR**
	

Maximum location: X=3.00, Y=-55.00
SAR Peak: 0.72 W/kg

SAR 10g (W/Kg)	0.247212
SAR 1g (W/Kg)	0.437651

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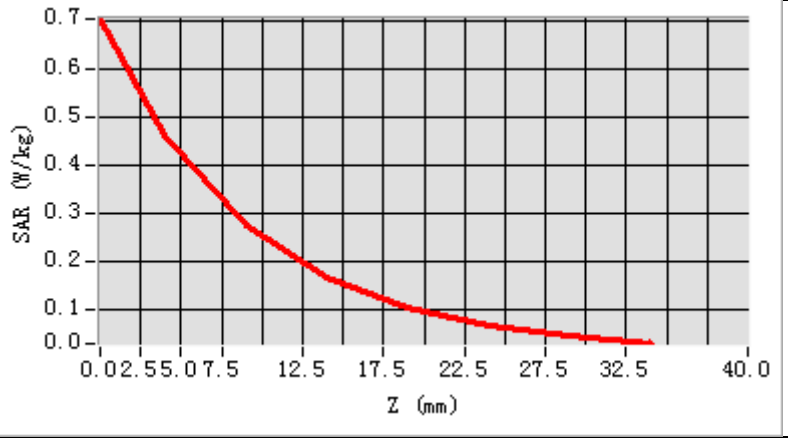
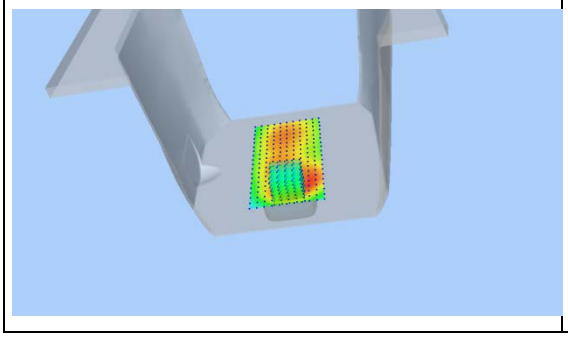
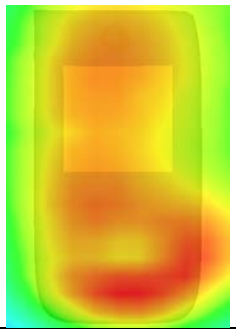
Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.7025	0.4627	0.2729	0.1676	0.1058	0.0680	0.0445



3D screen shot	Hot spot position
	

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