SAR Test Report

Report No.: AGC01659220702FH01

FCC ID	:	2A6RI-T6
APPLICATION PURPOSE	:	Original Equipment
PRODUCT DESIGNATION	:	TD-LTE wireless data terminal
BRAND NAME	:	WEICL
MODEL NAME	:	T6
APPLICANT	:	Hangzhou Weici Technology Co., LTD
DATE OF ISSUE	:	Sep. 16,2022
STANDARD(S)	:	IEEE Std. 1528:2013 FCC 47 CFR Part 2§2.1093 IEEE Std C95.1 ™-2005 IEC 62209-1: 2016
REPORT VERSION	:	V1.0

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

Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Sep. 16,2022	Valid	Initial Release

Test Report	
Applicant Name	Hangzhou Weici Technology Co., LTD
Applicant Address	B1135, Hangzhou Yin, No 2030, Jianghui Road, Binjiang, Hangzhou, china
Manufacturer Name	Hangzhou Weici Technology Co., LTD
Manufacturer Address	B1135, Hangzhou Yin, No 2030, Jianghui Road, Binjiang, Hangzhou, china
Factory Name	Shenzhen Tianlong Century TechnologyDevelopment Co.,Ltd.
Factory Address	3 & 5th Floor, Building 1,Quanxinyuan Industrial zone,Tongsheng community, Dalang street,Longhua District, Shenzhen,China
Product Designation	TD-LTE wireless data terminal
Brand Name	WEICL
Model Name	T6
EUT Voltage	DC3.85V by battery
Applicable Standard	IEEE Std. 1528:2013 FCC 47 CFR Part 2§2.1093 IEEE Std C95.1 ™-2005 IEC 62209-1: 2016
Test Date	Aug. 13,2022 to Aug. 28,2022
Report Template	AGCRT-US-4G/SAR (2021-04-20)

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

Prepared By Thea Huang

Thea Huang (Project Engineer) Aug. 28,2022

Reviewed By Calvin Liu

Calvin Liu (Reviewer) Sep. 16,2022

Approved By Max Zhang

Max Zhang (Authorized Officer) Sep. 16,2022

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1. SUMMARY OF MAXIMUM SAR VALUE

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

Frequency Band	Highest Reported 1g-SAR(W/kg)			SAR Test Limit (W/kg)
	Head	Body-worn(with 10mm separation)	Hotspot(with 10mm separation)	
GSM 850	0.212	0.934	0.934	1.6
PCS 1900	0.076	0.767	0.767	
UMTS Band II	0.109	0.435	0.435	
UMTS Band IV	0.142	0.962	0.962	
UMTS Band V	0.252	0.438	0.438	
LTE Band 2	0.180	0.532	0.532	
LTE Band 4	0.420	0.711	0.711	
LTE Band 5	0.425	0.474	0.474	
LTE Band 7	0.282	0.744	0.744	
LTE Band 17	0.352	0.509	0.509	
LTE Band 38	0.416	0.416	0.455	
LTE Band 41	0.232	0.521	0.521	
WIFI 2.4G	0.467	0.264	0.264	
5.2GHz (U-NII-1)	0.664	0.228	0.228	
5.3GHz U-NII-2A	0.614	0.301	0.301	
5.5GHz U-NII-2C	0.193	0.287	0.287	
5.8GHz U-NII-3	0.479	0.630	0.630	
Simultaneous Reported SAR	1.263			
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

2. GENERAL INFORMATION

2.1. EUT Description

General Information	
Product Designation	TD-LTE wireless data terminal
Test Model	T6
Sample ID	220708097
Hardware Version	MH16_V1.0
Software Version	MH16S44CBG21_T6_V1.0
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:-0.51dBi; PCS1900:-0.34dBi;
Max. Average Power	GSM850: 32.60 dBm; PCS1900: 29.58dBm
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 FDD Band IV: 1710-1770MHz
RX Frequency Range	FDD Band II: 1930-1990MHz; FDD Band V: 869-894MHz FDD Band IV: 2110-2170MHz
Release Version	Rel-6
Type of modulation	HSDPA:QPSK/16QAM; HSUPA:BPSK; WCDMA:QPSK
Antenna Gain	WCDMA850:-0.51dBi; WCDMA1700:-0.33dBi; WCDMA1900:-0.34dBi
Max. Average Power	Band II: 23.11 dBm; Band IV: 22.10dBm; Band V: 22.90dBm
Bluetooth	
Bluetooth Version	☐V2.0 ☐V2.1 ☐V2.1+EDR ☒V3.0 ☐V3.0+HS ☐V4.0 ☐V4.1 ☒V5.0
Operation Frequency	2402~2480MHz
Type of modulation	☒GFSK ☒Π/4-DQPSK ☒8-DPSK
Peak Power	3.655dBm
Antenna Gain	1.38dBi
2.4GHz WIFI	
WIFI Specification	☐802.11a ☒802.11b ☒802.11g ☒802.11n(20) ☒802.11n(40)
Operation Frequency	2412~2462MHz
Avg. Burst Power	IEEE 802.11b:15.87dBm; IEEE 802.11g:13.85dBm; IEEE 802.11n(HT20):13.79dBm; IEEE 802.11n(HT40):13.56dBm
Antenna Gain	1.38dBi

EUT Description(Continue)

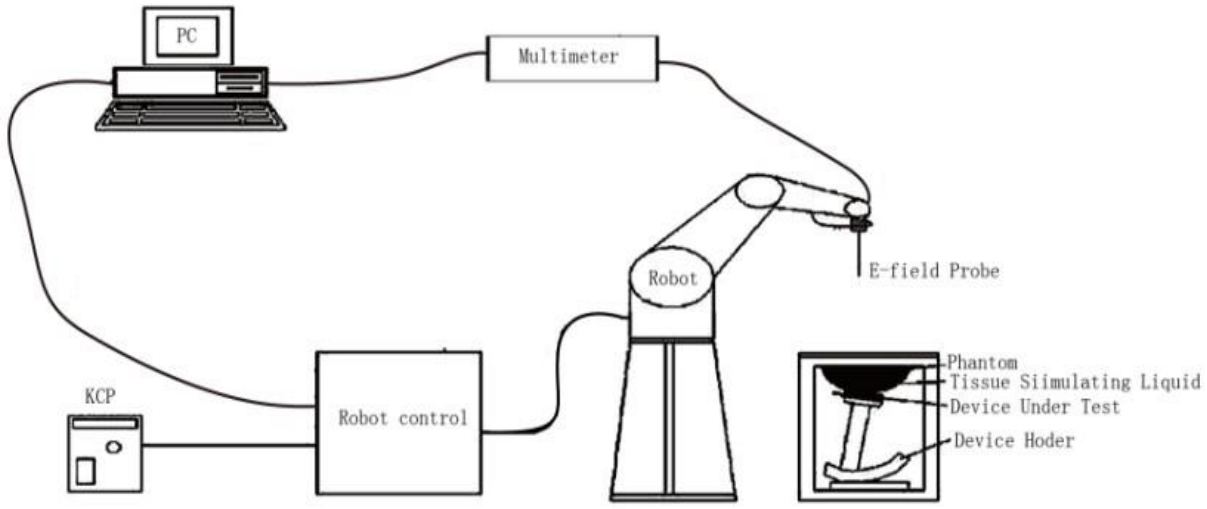
LTE	
Support Band	☒FDD Band 2 ☒FDD Band 4 ☒FDD Band 5 ☒FDD Band 7 ☐FDD Band 12 ☐FDD Band 13 ☒FDD Band 17 ☐FDD Band 25 ☐FDD Band 26 ☒TDD Band 38 ☐TDD Band 40 ☒TDD Band 41 ☐FDD Band 66 ☐FDD Band 71 (U.S. Bands) ☐FDD Band 1 ☐FDD Band 3 ☐FDD Band 7 ☐FDD Band 8 ☐FDD Band 20 ☐FDD Band 28 ☐TDD Band 38 ☐TDD Band 40 ☐TDD Band 42 ☐TDD Band 43 (Non-U.S. Bands)
TX Frequency Range	Band 2:1850-1910MHz; Band 4:1710-1755MHz;Band 5:824-849MHz; Band 7:2500-2570MHz; Band 17: 704-716MHz; Band 38: 2570-2620 MHz; Band 41:2496-2690MHz;
RX Frequency Range	Band 2:1930-1990MHz; Band 4:2110-2155MHz; Band 5:869-894MHz; Band 7:2620-2690MHz;Band 17: 734-746 MHz; Band 38: 2570-2620 MHz; Band 41:2496-2690MHz;
Release Version	Rel-8
Type of modulation	QPSK, 16QAM
Antenna Gain	Band 2: 0.71dBi; Band 4: -1.61dBi; Band 5: -5.44dBi; Band 7: -5.44dBi; Band 17: -1.23dBi; Band 38: -2.23dBi; Band 41: -0.43dBi;
Max. Average Power	Band 2: 22.78 dBm; Band 4: 23.17dBm; Band 5: 23.90dBm; Band 7: 23.84 dBm; Band 17: 23.79 dBm; Band 38: 23.81 dBm; Band 41: 23.42 dBm;
5 GHz WIFI	
WIFI Specification	☒802.11a ☒802.11n20 ☒802.11n40 ☒802.11ac20 ☒802.11ac40 ☒802.11ac80
Operation Frequency	☒ U-NII 1:5150MHz~5250MHz ☒ U-NII 2A: 5250MHz~5350MHz ☒ U-NII 2C:5470MHz~5725MHz ☒ U-NII 3: 5725MHz~5850MHz
Max. conducted Power	IEEE 802.11a:12.96dBm; IEEE 802.11n-HT20:12.78dBm; IEEE 802.11n-HT40:12.71dBm; IEEE 802.11ac-VHT20:11.66dBm; IEEE 802.11ac-VHT40:11.72dBm; IEEE 802.11ac-VHT80:12.22dBm
Antenna Gain	U-NII 1:3.45dBi;U- NII-2A:3.17dBi; U-NII-2C:3.38dBi;U- NII 3:3.70dBi;
Accessories	
Battery	Brand name: N/A Model No. T6: Voltage and Capacitance: 3.85 V & 5000mAh
Earphone	Brand name: N/A Model No. : N/A

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

Product	Type
	☒ Production unit ☐ Identical Prototype

3. SAR MEASUREMENT SYSTEM

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



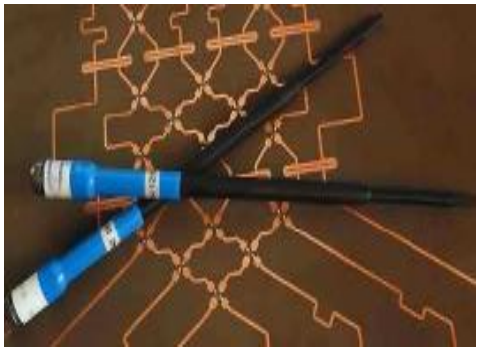
The COMOSAR system for performing compliance tests consists of the following items:

- 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.

3.2. COMOSAR E-Field Probe

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

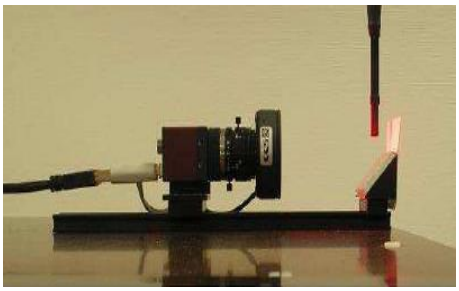
Isotropic E-Field Probe Specification

Model	SSE2	
Manufacture	MVG	
Identification No.	SN 13/22 EPGO368	
Frequency	0.15GHz-6GHz Linearity:±0.09dB(0.15GHz-6GHz)	
Dynamic Range	0.01W/kg-100W/kg Linearity:±0.09dB	
Dimensions	Overall length:330mm Length of individual dipoles:2mm Maximum external diameter:8mm Probe Tip external diameter:2.5mm Distance between dipoles/ probe extremity:1mm	
Application	High precision dosimetric measurements in any exposure scenario (e.g., very strong gradient fields). Only probe which enables compliance testing for frequencies up to 6 GHz with precisin of better 30%.	

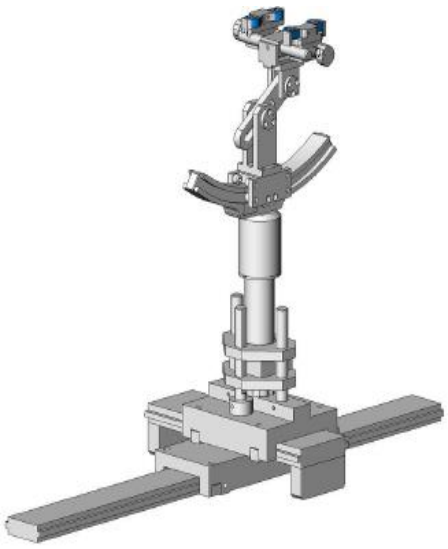
3.3. Robot

The COMOSAR system uses the KUKA robot from SATIMO SA (France).For the 6-axis controller COMOSAR system, the KUKA robot controller version from SATIMO is used. The XL robot series have many features that are important for our application: □ High precision (repeatability 0.02 mm) □ High reliability (industrial design) □ Jerk-free straight movements □ Low ELF interference (the closed metallic construction shields against motor control fields) □ 6-axis controller	

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.	

3.6. SAM Twin Phantom

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

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

ELLI39 Phantom

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

4. SAR MEASUREMENT PROCEDURE

4.1. Specific Absorption Rate (SAR)

SAR is related to the rate at which energy is absorbed per unit mass in object exposed to a radio field. The SAR distribution in a biological body is complicated and is usually carried out by experimental techniques or numerical modeling. The standard recommends limits for two tiers of groups, occupational/controlled and occupational/uncontrolled, based on a person's awareness and ability to exercise control over his or her exposure. In general, occupational/controlled exposure limits are higher than the limits for general population/uncontrolled.

The SAR definition is the time derivative (rate) of the incremental energy (dW) absorbed by (dissipated in) an incremental mass (dm) contained in a volume element(dv) of given mass density (ρ). The equation description is as below:

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

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

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

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

Where

SAR	is the specific absorption rate in watts per kilogram;
E	is the r.m.s. value of the electric field strength in the tissue in volts per meter;
σ	is the conductivity of the tissue in siemens per metre;
ρ	is the density of the tissue in kilograms per cubic metre;
c_h	is the heat capacity of the tissue in joules per kilogram and Kelvin;
$\frac{dT}{dt} \mid t = 0$	is the initial time derivative of temperature in the tissue in kelvins per second

4.2. SAR Measurement Procedure

Step 1: Power Reference Measurement

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

Step 2: Area Scan

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

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

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

Step 3: Zoom Scan

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

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	≤ 1.5·$\Delta z_{Zoom}(n-1)$	
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.

4.3. RF Exposure Conditions

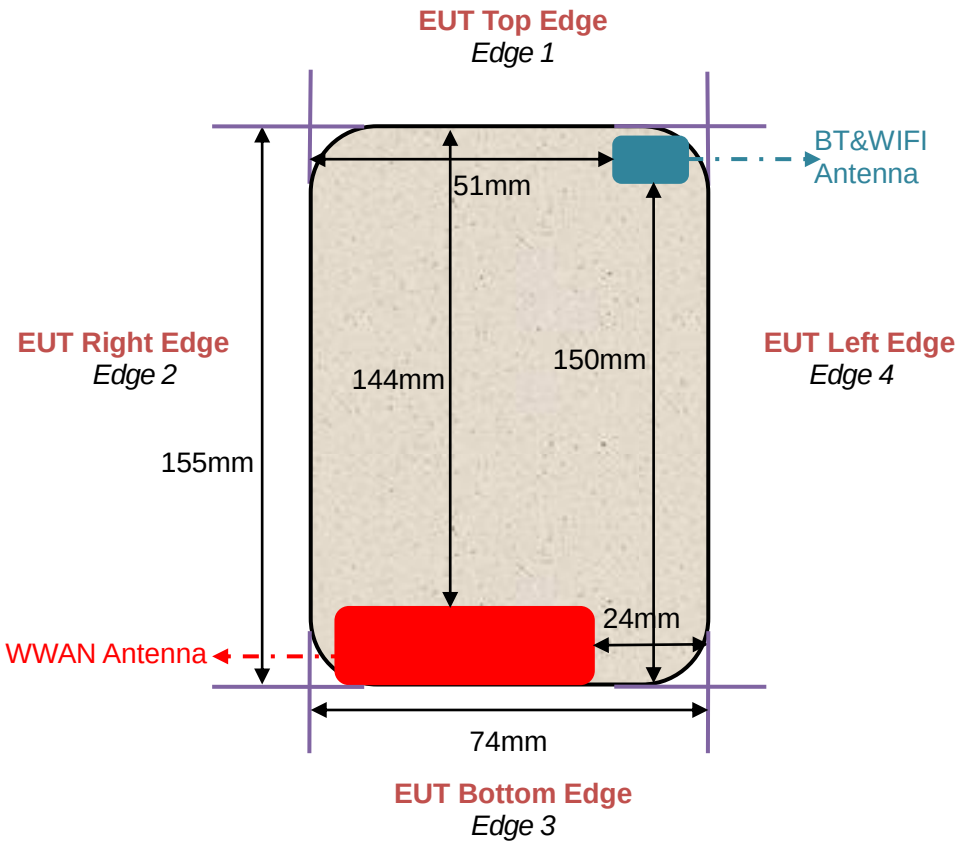
Test Configuration and setting:

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)



For WWAN mode:

Test Configurations	Antenna to edges/surface	SAR required	Note
Head			
Left Touch		Yes	--
Left Tilt		Yes	--
Right Touch		Yes	--
Right Tilt		Yes	--
Body			
Back	<25mm	Yes	--
Front	<25mm	Yes	--
Hotspot			
Back	<25mm	Yes	--
Front	<25mm	Yes	--
Edge 1 (Top)	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 2 (Right)	5mm	Yes	--
Edge 3 (Bottom)	3mm	Yes	--
Edge 4 (Left)	24mm	Yes	SAR is not required for the distance between the antenna and the edge is >25mm as per KDB 941225 D06 Hotspot SAR

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)	3mm	Yes	--
Edge 2 (Right)	51mm	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)	150mm	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)	13mm	Yes	--

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

5.2. Tissue Dielectric Parameters for Head and Body Phantoms

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

Target Frequency (MHz)	head		body	
	εr	σ (S/m)	εr	σ (S/m)
300	45.3	0.87	45.3	0.87
450	43.5	0.87	43.5	0.87
750	**41.9**	**0.89**	**41.9**	**0.89**
835	**41.5**	**0.90**	**41.5**	**0.90**
900	41.5	0.97	41.5	0.97
915	41.5	1.01	41.5	1.01
1450	40.5	1.20	40.5	1.20
1610	40.3	1.29	40.3	1.29
1750	**40.1**	**1.37**	**40.1**	**1.37**
1800 – 2000	**40.0**	**1.40**	**40.0**	**1.40**
2300	39.5	1.67	39.5	1.67
2450	**39.2**	**1.80**	**39.2**	**1.80**
2600	**39.0**	**1.96**	**39.0**	**1.96**
3000	38.5	2.40	38.5	2.40
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

5.3. Tissue Calibration Result

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

Tissue Stimulant Measurement for 750MHz					
Head	Fr. (MHz)	Dielectric Parameters (±10%)		Tissue Temp [°C]	Test time
		εr 41.9 (37.71-46.09)	δ[s/m] 0.89(0.801-0.979)		
	710	43.22	0.89	21.6	Aug. 27,2022
	750	42.64	0.91		

Tissue Stimulant Measurement for 835MHz					
Head	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)		
	824.2	42.37	0.88	22.0	Aug. 22,2022
	835	41.62	0.91		
	836.6	40.34	0.93		
	848.8	39.68	0.95		

Tissue Stimulant Measurement for 835MHz					
Head	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)		
	835	41.62	0.91	22.0	Aug. 22,2022
	836.5	40.77	0.93		

Tissue Stimulant Measurement for 1750MHz					
Head	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)		
	1712.4	41.35	1.36	21.3	Aug. 25,2022
	1732.4	40.32	1.39		
	1732.5	40.32	1.39		
	1750	39.79	1.41		
	1752.6	38.92	1.44		

Tissue Stimulant Measurement for 1900MHz					
Head	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)		
	1880	41.37	1.34	21.4	Aug. 23,2022
	1900	40.29	1.36		

Tissue Stimulant Measurement for 1900MHz					
Head	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)		
	1880	41.37	1.34	21.4	Aug. 23,2022
	1900	40.29	1.36		

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	39.62	1.73	21.2	Aug. 28,2022
	2450	38.77	1.76		

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)		
	2535	41.69	1.82	22.2	Aug. 26,2022
	2593	40.39	1.85		
	2595	39.23	1.87		
	2600	38.68	1.89		

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	35.26	4.62	21.2	Aug. 13,2022

Tissue Stimulant Measurement for 5300MHz					
Head	Fr. (MHz)	Dielectric Parameters (±10%)		Tissue Temp [°C]	Test time
		εr 35.9(32.31-39.49)	δ[s/m] 4.76(4.284-5.236)		
	5270	36.29	4.76	22.5	Aug. 14,2022
	5300	35.26	4.79		

Tissue Stimulant Measurement for 5600MHz					
Head	Fr. (MHz)	Dielectric Parameters (±10%)		Tissue Temp [°C]	Test time
		Er 35.5 (31.95-39.05)	δ[s/m] 5.07(4.563 -5.577)		
	5550	35.62	4.93	21.1	Aug. 15,2022
	5600	35.22	4.96		

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	36.73	5.23	22.1	Aug. 16,2022
	5800	36.25	5.26		

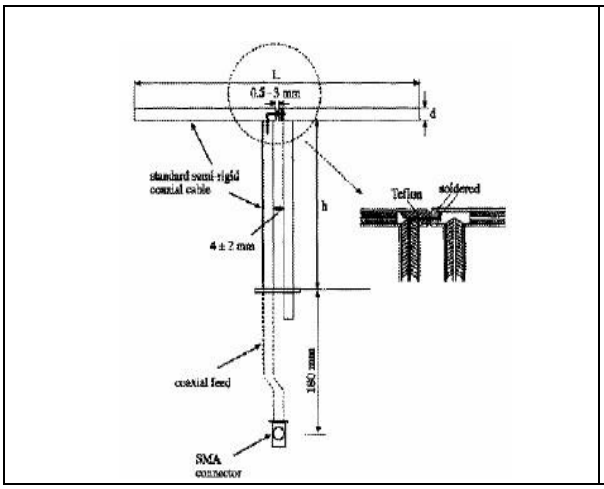
6. SAR SYSTEM CHECK PROCEDURE

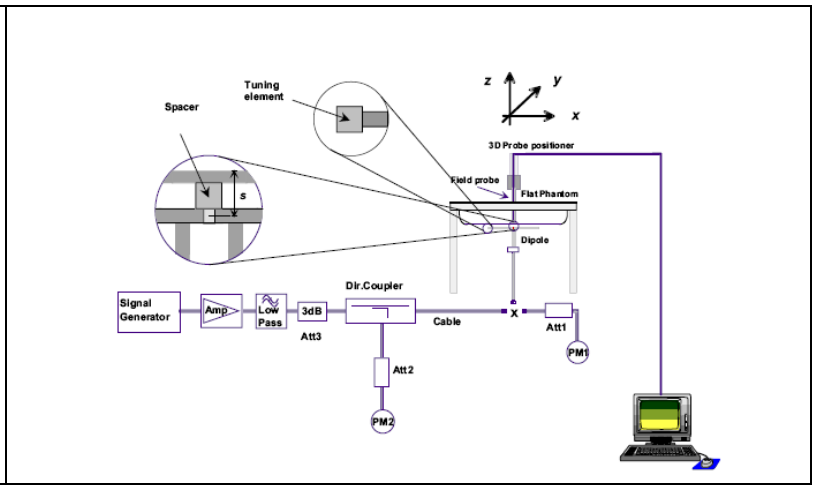
6.1. SAR System Check Procedures

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.

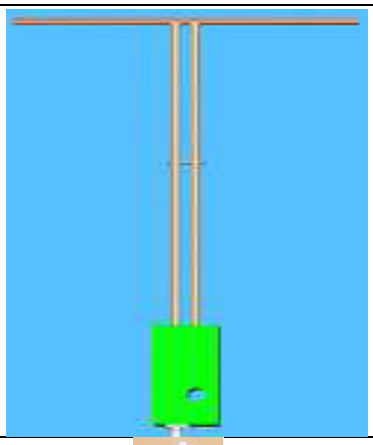
Each SATIMO system is equipped with one or more system check kits. These units, together with the predefined measurement procedures within the SATIMO software, enable the user to conduct the system check and system validation. System kit includes a dipole, and dipole device holder.

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.





6.2. SAR System Check
6.2.1. Dipoles

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

6.2.2. System Check Result

System Performance Check at 750MHz&835MHz &1800MHz &1900MHz &2450MHz&2600MHz & 5000MHz 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	9.04	5.59	21.6	Aug. 27,2022
835	9.67	6.14	8.703-10.637	5.526-6.754	9.58	5.88	22.0	Aug. 22,2022
1800	37.76	19.60	33.984-41.536	17.640-21.560	40.41	20.58	21.3	Aug. 25,2022
1900	41.26	20.86	37.134-45.386	18.774-22.946	41.63	21.01	21.4	Aug. 23,2022
2450	54.32	24.25	48.888-59.752	21.825-26.675	54.21	24.29	21.2	Aug. 28,2022
2600	54.94	23.77	49.446-60.434	21.393-26.147	54.31	24.34	22.2	Aug. 26,2022
5200	73.43	21.83	66.087-80.773	19.647-24.013	77.70	22.30	21.2	Aug. 13,2022
5200	73.43	21.83	66.087-80.773	19.647-24.013	80.33	22.95	22.5	Aug. 14,2022
5600	78.20	24.12	70.380-86.02	21.708-26.532	82.20	23.43	21.1	Aug. 15,2022
5800	75.69	22.44	68.121-83.259	20.196-24.684	76.33	21.94	22.1	Aug. 16,2022
750	8.33	5.44	7.497-9.163	4.896-5.984	8.97	5.58	21.6	Aug. 27,2022
835	9.67	6.14	8.703-10.637	5.526-6.754	9.42	5.96	22.0	Aug. 22,2022
1800	37.76	19.60	33.984-41.536	17.640-21.560	40.51	20.18	21.3	Aug. 25,2022
1900	41.26	20.86	37.134-45.386	18.774-22.946	39.61	20.23	21.4	Aug. 23,2022
2450	54.32	24.25	48.888-59.752	21.825-26.675	55.43	24.83	21.2	Aug. 28,2022
2600	54.94	23.77	49.446-60.434	21.393-26.147	53.52	24.04	22.2	Aug. 26,2022
5200	73.43	21.83	66.087-80.773	19.647-24.013	73.20	22.94	21.2	Aug. 13,2022
5200	78.43	23.90	70.587-86.020	21.510-26.290	76.44	23.40	22.5	Aug. 14,2022
5600	78.20	24.12	70.380-86.02	21.708-26.532	83.30	25.31	21.1	Aug. 15,2022
5800	75.69	22.44	68.121-83.259	20.196-24.684	78.49	24.42	22.1	Aug. 16,2022

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

7. EUT TEST POSITION

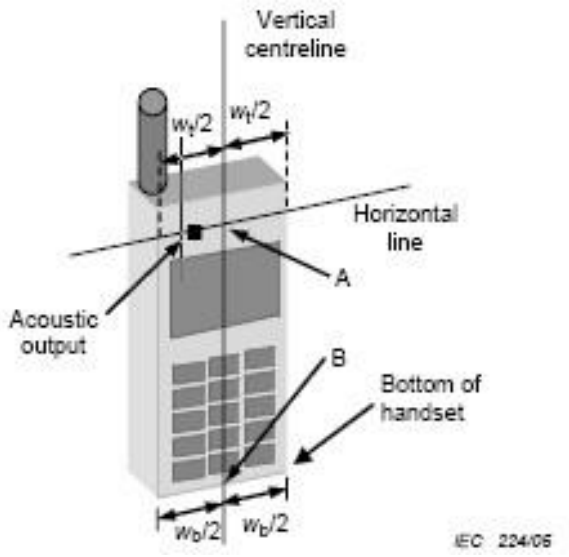
This EUT was tested in **Right Cheek, Right Tilted, Left Cheek, Left Tilted, Body back, Body front and 4 edges.**

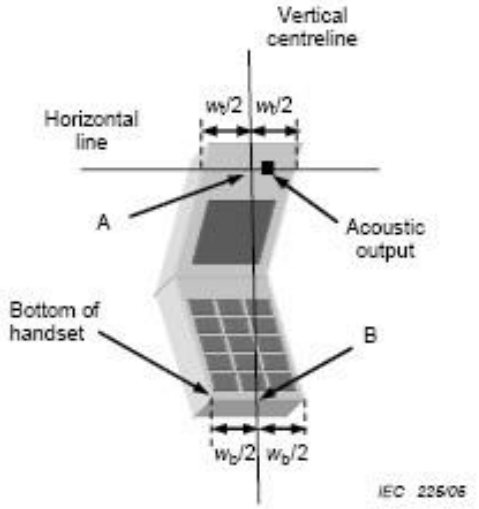
7.1. Define Two Imaginary Lines on the Handset

(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.





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.

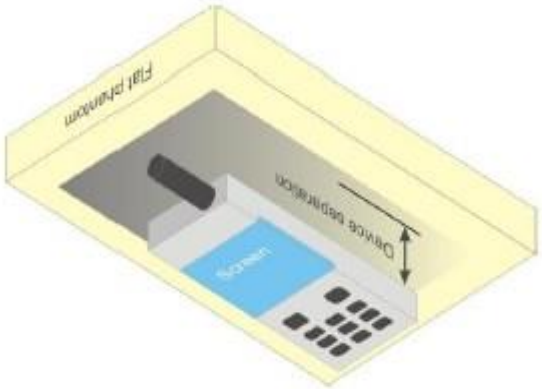
(2) While maintaining the device in the reference plane described above and pivoting against the ear, moves it outward away from the mouth by an angle of 15 degrees or until with the ear is lost.

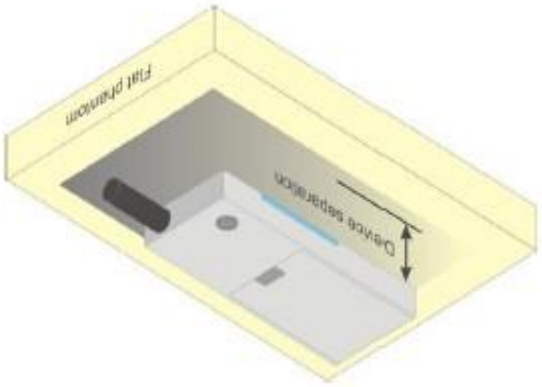
7.4. Body Worn Position

(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.**





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

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

10. TEST EQUIPMENT LIST

Equipment description	Manufacturer/ Model	Identification No.	Software version	Current calibration date	Next calibration date
SAR Probe	MVG	SN 13/22 EPGO368	N/A	Apr. 13, 2022	Apr. 12, 2023
Phantom	SATIMO	SN_4511_SAM90	N/A	Validated. No cal required.	Validated. No cal required.
Phantom	SATIMO	SN_2316_ELLI39	N/A	Validated. No cal required.	Validated. No cal required.
Liquid	SATIMO	N/A	N/A	Validated. No cal required.	Validated. No cal required.
Comm Tester	Agilent-8960	GB46310822	A.13.07	Aug. 03,2022	Aug. 02,2023
Comm Tester	R&S- CMW500	121209	V3.7.40	Aug. 04,2022	Aug. 03,2023
Multimeter	Keithley 2000	4114939	N/A	Aug. 06,2022	Aug. 05,2023
SAR Software	MVG-OpenSAR	N/A	OpenSAR V4_02_35	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	SATIMO SID5000	SN 17/22 DIP 5G000-671	N/A	Apr. 28,2022	Apr. 27, 2025
Signal Generator	Agilent-E4438C	US41461365	V5.03	Aug. 03,2022	Aug. 02,2023
Vector Analyzer	Agilent / E4440A	MY44303916	N/A	Mar. 28,2022	Mar. 27,2023
Network Analyzer	Rhode & Schwarz ZVL6	SN101443	3.2	Oct. 28,2021	Oct. 27,2022
Attenuator	Warison /WATT-6SR1211	S/N:WRJ34AYM2F1	N/A	June 08,2022	June 07,2023
Attenuator	Mini-circuits / VAT-10+	31405	N/A	June 08,2022	June 07,2023
Amplifier	AS0104-55_55	1004793	N/A	June 09,2022	June 08,2023
Directional Couple	Werlatone/ C5571-10	SN99463	N/A	Mar. 10,2022	Mar. 09,2024
Directional Couple	Werlatone/ C6026-10	SN99482	N/A	Mar. 10,2022	Mar. 09,2024
Power Sensor	NRP-Z21	1137.6000.02	N/A	Sep. 07,2021	Sep. 06,2022
Power Sensor	NRP-Z23	100323	N/A	Feb. 16,2022	Feb. 15,2023
Power Viewer	R&S	V2.3.1.0	N/A	N/A	N/A
Calibration standard parts for network sub - port	R&S/ ZV-Z132	N/A	V2.3.1.0	Dec. 07,2021	Dec. 06,2022

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

11. MEASUREMENT UNCERTAINTY

SATIMO Uncertainty- SN 13/22 EPGO368 Measurement uncertainty for DUT averaged over 1 gram / 10 gram.									
Uncertainty Component	Sec.	Tol (+- %)	Prob. Dist.	Div.	Ci (1g)	Ci (10g)	1g Ui (+-%)	10g Ui (+-%)	vi
Measurement System									
Probe calibration	E.2.1	7.000	N	1	1	1	7.000	7.000	∞
Axial Isotropy	E.2.2	0.175	R	√3	√0.5	√0.5	0.071	0.071	∞
Hemispherical Isotropy	E.2.2	0.175	R	√3	√0.5	√0.5	0.071	0.071	∞
Boundary effect	E.2.3	1.000	R	√3	1	1	0.577	0.577	∞
Linearity	E.2.4	0.990	R	√3	1	1	0.572	0.572	∞
System detection limits	E.2.4	1.000	R	√3	1	1	0.577	0.577	∞
Modulation response	E2.5	3.000	R	√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	√3	1	1	0.000	0.000	∞
Integration Time	E.2.8	1.400	R	√3	1	1	0.808	0.808	∞
RF ambient conditions-Noise	E.6.1	3.000	R	√3	1	1	1.732	1.732	∞
RF ambient conditions-reflections	E.6.1	3.000	R	√3	1	1	1.732	1.732	∞
Probe positioner mechanical tolerance	E.6.2	1.400	R	√3	1	1	0.808	0.808	∞
Probe positioning with respect to phantom shell	E.6.3	1.400	R	√3	1	1	0.808	0.808	∞
Extrapolation, interpolation, and integrations algorithms for max. SAR evaluation	E.5	2.300	R	√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	√3	1	1	2.887	2.887	∞
SAR scaling	E.6.5	5	R	√3	1	1	2.887	2.887	∞
Phantom and tissue parameters									
Phantom shell uncertainty—shape, thickness, and permittivity	E.3.1	4	R	√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	√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	√3	0.23	0.26	1.126	1.025	∞
Liquid permittivity—temperature uncertainty	E.3.4	2.5	N	1	0.23	0.26	0.332	0.375	M
Combined Standard Uncertainty			RSS				10.529	10.344	
Expanded Uncertainty (95% Confidence interval)			K=2				21.058	20.688	

SATIMO Uncertainty- SN 13/22 EPGO368 System Validation uncertainty for DUT averaged over 1 gram / 10 gram.									
Uncertainty Component	Sec.	Tol (+- %)	Prob. Dist.	Div.	Ci (1g)	Ci (10g)	1g Ui (+-%)	10g Ui (+-%)	vi
Measurement System									
Probe calibration	E.2.1	7.000	N	1	1	1	7.000	7.000	∞
Axial Isotropy	E.2.2	0.175	R	$\sqrt{3}$	1	1	0.101	0.101	∞
Hemispherical Isotropy	E.2.2	0.175	R	$\sqrt{3}$	0	0	0.000	0.000	∞
Boundary effect	E.2.3	1.000	R	$\sqrt{3}$	1	1	0.577	0.577	∞
Linearity	E.2.4	0.990	R	$\sqrt{3}$	1	1	0.572	0.572	∞
System detection limits	E.2.4	1.0	R	$\sqrt{3}$	1	1	0.58	0.58	∞
Modulation response	E2.5	3.0	R	$\sqrt{3}$	0	0	0.00	0.00	∞
Readout Electronics	E.2.6	0.021	N	1	1	1	0.021	0.021	∞
Response Time	E.2.7	0.0	R	$\sqrt{3}$	0	0	0.00	0.00	∞
Integration Time	E.2.8	1.4	R	$\sqrt{3}$	0	0	0.00	0.00	∞
RF ambient conditions-Noise	E.6.1	3.0	R	$\sqrt{3}$	1	1	1.73	1.73	∞
RF ambient conditions-reflections	E.6.1	3.0	R	$\sqrt{3}$	1	1	1.73	1.73	∞
Probe positioner mechanical tolerance	E.6.2	1.4	R	$\sqrt{3}$	1	1	0.81	0.81	∞
Probe positioning with respect to phantom shell	E.6.3	1.4	R	$\sqrt{3}$	1	1	0.81	0.81	∞
Extrapolation, interpolation, and integrations algorithms for max. SAR evaluation	E.5	2.3	R	$\sqrt{3}$	1	1	1.33	1.33	∞
System validation source									
Deviation of experimental dipole from numerical dipole	E.6.4	5.0	N	1	1	1	5.00	5.00	∞
Input power and SAR drift measurement	8,6.6.4	5.0	R	$\sqrt{3}$	1	1	2.89	2.89	∞
Dipole axis to liquid distance	8,E.6.6	2.0	R	$\sqrt{3}$	1	1	1.15	1.15	∞
Phantom and set-up									
Phantom shell uncertainty—shape, thickness, and permittivity	E.3.1	4.0	R	$\sqrt{3}$	1	1	2.31	2.31	∞
Uncertainty in SAR correction for deviations in permittivity and conductivity	E.3.2	1.9	N	1	1	0.84	1.90	1.60	∞
Liquid conductivity（temperature uncertainty）	E.3.3	2.5	R	$\sqrt{3}$	0.78	0.71	1.13	1.02	∞
Liquid conductivity（measured）	E.3.3	4	N	1	0.78	0.71	3.12	2.84	M
Liquid permittivity（temperature uncertainty）	E.3.4	2.5	R	$\sqrt{3}$	0.23	0.26	0.33	0.38	∞
Liquid permittivity（measured）	E.3.4	5	N	1	0.23	0.26	1.15	1.30	M
Combined Standard Uncertainty			RSS				10.462	10.276	
Expanded Uncertainty (95% Confidence interval)			K=2				20.924	20.551	

SATIMO Uncertainty- SN 13/22 EPGO368 System Check uncertainty for DUT averaged over 1 gram / 10 gram.									
Uncertainty Component	Sec.	Tol (+- %)	Prob. Dist.	Div.	Ci (1g)	Ci (10g)	1g Ui (+-%)	10g Ui (+-%)	vi
Measurement System									
Probe calibration drift	E.2.1.3	0.500	N	1	1	1	0.50	0.50	∞
Axial Isotropy	E.2.2	0.175	R	$\sqrt{3}$	0	0	0.00	0.00	∞
Hemispherical Isotropy	E.2.2	0.175	R	$\sqrt{3}$	0	0	0.00	0.00	∞
Boundary effect	E.2.3	1.000	R	$\sqrt{3}$	0	0	0.00	0.00	∞
Linearity	E.2.4	0.990	R	$\sqrt{3}$	0	0	0.00	0.00	∞
System detection limits	E.2.4	1.0	R	$\sqrt{3}$	0	0	0.00	0.00	∞
Modulation response	E2.5	3.0	R	$\sqrt{3}$	0	0	0.00	0.00	∞
Readout Electronics	E.2.6	0.021	N	1	0	0	0.00	0.00	∞
Response Time	E.2.7	0	R	$\sqrt{3}$	0	0	0.00	0.00	∞
Integration Time	E.2.8	1.4	R	$\sqrt{3}$	0	0	0.00	0.00	∞
RF ambient conditions-Noise	E.6.1	3.0	R	$\sqrt{3}$	0	0	0.00	0.00	∞
RF ambient conditions-reflections	E.6.1	3.0	R	$\sqrt{3}$	0	0	0.00	0.00	∞
Probe positioner mechanical tolerance	E.6.2	1.4	R	$\sqrt{3}$	1	1	0.81	0.81	∞
Probe positioning with respect to phantom shell	E.6.3	1.4	R	$\sqrt{3}$	1	1	0.81	0.81	∞
Extrapolation, interpolation, and integrations algorithms for max. SAR evaluation	E.5	2.3	R	$\sqrt{3}$	0	0	0.00	0.00	∞
System check source (dipole)									
Deviation of experimental dipoles	E.6.4	2.0	N	1	1	1	2.00	2.00	∞
Input power and SAR drift measurement	8,6.6.4	5.0	R	$\sqrt{3}$	1	1	2.89	2.89	∞
Dipole axis to liquid distance	8,E.6.6	2.0	R	$\sqrt{3}$	1	1	1.15	1.15	∞
Phantom and tissue parameters									
Phantom shell uncertainty—shape, thickness, and permittivity	E.3.1	4	R	$\sqrt{3}$	1	1	2.31	2.31	∞
Uncertainty in SAR correction for deviations in permittivity and conductivity	E.3.2	1.9	N	1	1	0.84	1.90	1.60	∞
Liquid conductivity measurement	E.3.3	4	R	$\sqrt{3}$	0.78	0.71	3.12	2.84	∞
Liquid permittivity measurement	E.3.3	5	N	1	0.78	0.71	1.15	1.30	M
Liquid conductivity—temperature uncertainty	E.3.4	2.5	R	$\sqrt{3}$	0.23	0.26	1.13	1.02	∞
Liquid permittivity—temperature uncertainty	E.3.4	2.5	N	1	0.23	0.26	0.33	0.38	M
Combined Standard Uncertainty			RSS				5.562	5.203	
Expanded Uncertainty (95% Confidence interval)			K=2				11.124	10.406	

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	32.55	-9	23.55
	836.6	32.50	-9	23.50
	848.8	32.36	-9	23.36
GPRS 850 （1 Slot）	824.2	**32.60**	-9	23.60
	836.6	32.48	-9	23.48
	848.8	32.34	-9	23.34
GPRS 850 （2 Slot）	824.2	30.47	-6	24.47
	836.6	30.69	-6	24.69
	848.8	30.71	-6	24.71
GPRS 850 （3 Slot）	824.2	29.21	-4.26	**24.95**
	836.6	29.02	-4.26	24.76
	848.8	29.14	-4.26	24.88
GPRS 850 （4 Slot）	824.2	26.96	-3	23.96
	836.6	27.06	-3	24.06
	848.8	26.88	-3	23.88
EGPRS 850 （1 Slot）	824.2	27.39	-9	18.39
	836.6	27.11	-9	18.11
	848.8	27.10	-9	18.10
EGPRS 850 （2 Slot）	824.2	25.22	-6	19.22
	836.6	25.34	-6	19.34
	848.8	25.37	-6	19.37
EGPRS 850 （3 Slot）	824.2	23.05	-4.26	18.79
	836.6	23.27	-4.26	19.01
	848.8	23.30	-4.26	19.04
EGPRS 850 （4 Slot）	824.2	21.16	-3	18.16
	836.6	21.22	-3	18.22
	848.8	21.28	-3	18.28

Mode	Frequency(MHz)	Avg. Burst Power(dBm)	Duty cycle Factor(dBm)	Frame Power(dBm)
Maximum Power <2>				
GSM 850	824.2	31.25	-9	22.25
	836.6	31.05	-9	22.05
	848.8	31.09	-9	22.09
GPRS 850 （1 Slot）	824.2	31.17	-9	22.17
	836.6	31.01	-9	22.01
	848.8	31.03	-9	22.03
GPRS 850 （2 Slot）	824.2	29.71	-6	23.71
	836.6	29.80	-6	23.80
	848.8	30.36	-6	24.36
GPRS 850 （3 Slot）	824.2	28.55	-4.26	24.29
	836.6	28.89	-4.26	24.63
	848.8	28.36	-4.26	24.10
GPRS 850 （4 Slot）	824.2	26.00	-3	23.00
	836.6	26.56	-3	23.56
	848.8	26.56	-3	23.56

GSM BAND CONTINUE

Mode	Frequency(MHz)	Avg. Burst Power(dBm)	Duty cycle Factor(dBm)	Frame Power(dBm)
Maximum Power <1>				
PCS1900	1850.2	**29.58**	-9	20.58
	1880	29.42	-9	20.42
	1909.8	28.98	-9	19.98
GPRS1900 （1 Slot）	1850.2	29.56	-9	20.56
	1880	29.36	-9	20.36
	1909.8	28.93	-9	19.93
GPRS1900 （2 Slot）	1850.2	27.44	-6	21.44
	1880	27.56	-6	21.56
	1909.8	27.74	-6	**21.74**
GPRS1900 （3 Slot）	1850.2	25.39	-4.26	21.13
	1880	25.71	-4.26	21.45
	1909.8	25.82	-4.26	21.56
GPRS1900 （4 Slot）	1850.2	24.12	-3	21.12
	1880	23.88	-3	20.88
	1909.8	23.97	-3	20.97
EGPRS1900 （1 Slot）	1850.2	24.47	-9	15.47
	1880	24.79	-9	15.79
	1909.8	25.34	-9	16.34
EGPRS1900 （2 Slot）	1850.2	23.24	-6	17.24
	1880	23.16	-6	17.16
	1909.8	23.04	-6	17.04
EGPRS1900 （3 Slot）	1850.2	21.40	-4.26	17.14
	1880	21.64	-4.26	17.38
	1909.8	21.37	-4.26	17.11
EGPRS1900 （4 Slot）	1850.2	19.63	-3	16.63
	1880	19.37	-3	16.37
	1909.8	19.49	-3	16.49

Mode	Frequency(MHz)	Avg. Burst Power(dBm)	Duty cycle Factor(dBm)	Frame Power(dBm)
Maximum Power <2>				
PCS1900	1850.2	28.44	-9	19.44
	1880	28.23	-9	19.23
	1909.8	28.19	-9	19.19
GPRS1900 （1 Slot）	1850.2	28.29	-9	19.29
	1880	28.08	-9	19.08
	1909.8	28.10	-9	19.10
GPRS1900 （2 Slot）	1850.2	26.61	-6	20.61
	1880	26.99	-6	20.99
	1909.8	27.43	-6	21.43
GPRS1900 （3 Slot）	1850.2	24.64	-4.26	20.38
	1880	24.77	-4.26	20.51
	1909.8	25.25	-4.26	20.99
GPRS1900 （4 Slot）	1850.2	23.15	-3	20.15
	1880	23.26	-3	20.26
	1909.8	23.61	-3	20.61

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

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.

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.

UMTS BAND II

Mode	Frequency (MHz)	Avg. Burst Power (dBm)
WCDMA 1900 RMC	1852.4	22.35
	1880	22.73
	1907.6	**23.11**
HSDPA Subtest 1	1852.4	21.36
	1880	21.89
	1907.6	22.20
HSDPA Subtest 2	1852.4	20.61
	1880	21.13
	1907.6	21.44
HSDPA Subtest 3	1852.4	20.65
	1880	21.11
	1907.6	21.45
HSDPA Subtest 4	1852.4	20.60
	1880	21.10
	1907.6	21.47
HSUPA Subtest 1	1852.4	19.20
	1880	19.54
	1907.6	19.91
HSUPA Subtest 2	1852.4	19.30
	1880	19.62
	1907.6	20.02
HSUPA Subtest 3	1852.4	20.22
	1880	20.52
	1907.6	20.89
HSUPA Subtest 4	1852.4	18.83
	1880	19.19
	1907.6	19.50
HSUPA Subtest 5	1852.4	18.52
	1880	18.64
	1907.6	18.86

UMTS BAND IV

Mode	Frequency (MHz)	Avg. Burst Power (dBm)
WCDMA 1700 RMC	1712.4	**22.10**
	1732.4	21.83
	1752.6	21.81
HSDPA Subtest 1	1712.4	21.14
	1732.4	21.00
	1752.6	20.98
HSDPA Subtest 2	1712.4	20.34
	1732.4	20.30
	1752.6	20.21
HSDPA Subtest 3	1712.4	20.40
	1732.4	20.29
	1752.6	20.14
HSDPA Subtest 4	1712.4	20.39
	1732.4	20.27
	1752.6	20.16
HSUPA Subtest 1	1712.4	18.91
	1732.4	18.72
	1752.6	18.68
HSUPA Subtest 2	1712.4	19.06
	1732.4	18.80
	1752.6	18.75
HSUPA Subtest 3	1712.4	19.93
	1732.4	19.78
	1752.6	19.67
HSUPA Subtest 4	1712.4	18.58
	1732.4	18.32
	1752.6	18.24
HSUPA Subtest 5	1712.4	18.29
	1732.4	17.83
	1752.6	18.01

UMTS BAND V

Mode	Frequency (MHz)	Avg. Burst Power (dBm)
WCDMA 850 RMC	826.4	**22.90**
	836.4	22.84
	846.6	22.70
HSDPA Subtest 1	826.4	21.75
	836.4	21.73
	846.6	21.69
HSDPA Subtest 2	826.4	20.94
	836.4	21.00
	846.6	20.93
HSDPA Subtest 3	826.4	20.84
	836.4	21.05
	846.6	20.93
HSDPA Subtest 4	826.4	20.80
	836.4	21.00
	846.6	20.85
HSUPA Subtest 1	826.4	19.52
	836.4	19.50
	846.6	19.49
HSUPA Subtest 2	826.4	19.53
	836.4	19.70
	846.6	19.59
HSUPA Subtest 3	826.4	20.57
	836.4	20.59
	846.6	20.41
HSUPA Subtest 4	826.4	19.02
	836.4	19.01
	846.6	19.17
HSUPA Subtest 5	826.4	18.63
	836.4	18.75
	846.6	18.72

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.

LTE Band

LTE (TDD) Considerations

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

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

LTE TDD Band 38,41 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

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

LTE Band

Conducted Power of LTE Band 2(dBm)							
Bandwidth	**Modulation**	**RB size**	**RB offset**	**Target MPR**	**Channel**	**Channel**	**Channel**
					18607	**18900**	**19193**
1.4MHz	QPSK	1	0	0	22.19	22.67	22.35
			3	0	22.32	22.77	22.46
			5	0	22.12	22.60	22.32
		3	0	0	22.23	22.69	22.39
			2	0	22.23	22.71	22.42
			3	0	22.25	22.72	22.38
		6	0	1	21.25	21.74	21.43
	16QAM	1	0	1	21.06	21.56	21.18
			3	1	21.12	21.66	21.44
			5	1	21.02	21.52	21.20
		3	0	1	21.09	21.47	21.13
			2	1	21.03	21.50	21.17
			3	1	21.01	21.44	21.17
		6	0	2	20.29	20.71	20.42
Bandwidth	**Modulation**	**RB size**	**RB offset**	**Target MPR**	**Channel**	**Channel**	**Channel**
					18615	**18900**	**19185**
3MHz	QPSK	1	0	0	22.17	22.70	22.26
			7	0	22.12	22.66	22.26
			14	0	22.12	22.64	22.29
		8	0	1	21.10	21.57	21.27
			4	1	21.14	21.61	21.25
			7	1	21.17	21.53	21.25
		15	0	1	21.05	21.58	21.19
	16QAM	1	0	1	21.15	21.57	20.96
			7	1	21.16	21.41	21.05
			14	1	21.18	21.38	21.11
		8	0	2	20.15	20.58	20.26
			4	2	20.16	20.61	20.23
			7	2	20.12	20.54	20.24
		15	0	2	20.08	20.48	20.12

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	22.15	22.62	22.27
			13	0	22.22	22.60	22.32
			24	0	22.17	22.50	22.27
		12	0	1	21.14	21.65	21.23
			6	1	21.15	21.64	21.18
			13	1	21.14	21.52	21.27
		25	0	1	21.11	21.55	21.25
	16QAM	1	0	1	21.07	21.67	21.11
			13	1	21.15	21.68	21.22
			24	1	21.08	21.58	21.14
		12	0	2	20.07	20.62	20.18
			6	2	20.07	20.66	20.18
			13	2	20.09	20.59	20.23
		25	0	2	20.16	20.56	20.30
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel 18650	Channel 18900	Channel 19150
10MHz	QPSK	1	0	0	22.13	22.74	22.22
			25	0	22.29	22.67	22.41
			49	0	22.21	22.47	22.25
		25	0	1	21.17	21.67	21.34
			13	1	21.16	21.70	21.31
			25	1	21.26	21.51	21.29
		50	0	1	21.17	21.50	21.22
	16QAM	1	0	1	21.14	21.54	21.02
			25	1	21.30	21.58	21.08
			49	1	21.26	21.24	21.00
		25	0	2	20.10	20.71	20.38
			13	2	20.10	20.69	20.32
			25	2	20.20	20.57	20.33
		50	0	2	20.15	20.60	20.29

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	22.07	22.60	22.23
			38	0	22.12	22.51	22.18
			74	0	22.54	22.21	22.15
		36	0	1	21.01	21.78	20.93
			18	1	21.18	21.66	20.97
			39	1	21.55	21.35	20.90
		75	0	1	21.31	21.65	21.23
	16QAM	1	0	1	21.09	21.80	20.90
			38	1	21.17	21.63	20.94
			74	1	21.57	21.34	20.91
		36	0	2	21.05	21.76	20.97
			18	2	21.19	21.63	20.96
			39	2	21.55	21.35	20.89
		75	0	2	20.23	20.61	20.27
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel 18700	Channel 18900	Channel 19100
20MHz	QPSK	1	0	0	21.96	**22.78**	22.10
			50	0	22.46	22.61	22.13
			99	0	22.75	22.18	22.06
		50	0	1	21.09	21.69	21.21
			25	1	21.08	21.64	21.22
			50	1	21.56	21.35	21.06
		100	0	1	21.36	21.53	21.19
	16QAM	1	0	1	20.89	21.83	20.90
			50	1	21.35	21.86	21.03
			99	1	21.64	21.34	20.87
		50	0	2	20.04	20.68	20.26
			25	2	20.09	20.68	20.27
			50	2	20.61	20.39	20.17
		100	0	2	20.35	20.49	20.17

Conducted Power of LTE Band 4(dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					19957	20175	20393
1.4MHz	QPSK	1	0	0	22.66	22.88	22.77
			3	0	22.72	22.99	22.90
			5	0	22.61	22.83	22.84
		3	0	0	22.76	22.98	22.83
			2	0	22.74	22.95	22.83
			3	0	22.69	22.92	22.86
		6	0	1	21.74	21.99	21.87
	16QAM	1	0	1	21.56	21.77	21.61
			3	1	21.74	21.93	21.80
			5	1	21.52	21.78	21.60
		3	0	1	21.53	21.76	21.64
			2	1	21.52	21.77	21.67
			3	1	21.52	21.74	21.67
		6	0	2	20.70	20.98	20.70
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					19965	20175	20385
3MHz	QPSK	1	0	0	22.68	22.89	22.67
			7	0	22.64	22.82	22.78
			14	0	22.60	22.92	22.86
		8	0	1	21.66	21.94	21.76
			4	1	21.70	21.94	21.74
			7	1	21.65	21.94	21.75
		15	0	1	21.61	21.91	21.73
	16QAM	1	0	1	21.71	21.92	21.54
			7	1	21.66	21.92	21.60
			14	1	21.65	21.89	21.59
		8	0	2	20.66	20.96	20.71
			4	2	20.69	20.96	20.71
			7	2	20.62	20.93	20.76
		15	0	2	20.64	20.91	20.63

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	22.65	22.91	22.49
			13	0	22.71	22.98	22.73
			24	0	22.53	22.89	22.73
		12	0	1	21.65	21.92	21.63
			6	1	21.62	21.93	21.62
			13	1	21.60	21.92	21.75
		25	0	1	21.65	21.93	21.78
	16QAM	1	0	1	21.61	21.81	21.62
			13	1	21.66	21.89	21.82
			24	1	21.50	21.76	21.80
		12	0	2	20.59	20.83	20.63
			6	2	20.59	20.88	20.64
			13	2	20.53	20.89	20.78
		25	0	2	20.60	20.91	20.70
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel 20000	Channel 20175	Channel 20350
10MHz	QPSK	1	0	0	22.66	22.90	22.43
			25	0	22.67	23.05	22.75
			49	0	22.54	22.84	22.83
		25	0	1	21.64	21.99	21.61
			13	1	21.62	22.02	21.60
			25	1	21.61	21.97	21.76
		50	0	1	21.58	21.93	21.65
	16QAM	1	0	1	21.68	21.93	21.32
			25	1	21.65	22.05	21.53
			49	1	21.59	21.88	21.68
		25	0	2	20.61	20.96	20.59
			13	2	20.60	20.96	20.59
			25	2	20.62	20.96	20.79
		50	0	2	20.57	20.92	20.69

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	22.62	22.74	22.48
			38	0	22.52	22.94	22.45
			74	0	22.57	22.68	22.60
		36	0	1	21.60	21.78	21.63
			18	1	21.59	21.99	21.59
			39	1	21.56	21.72	21.81
		75	0	1	21.65	21.96	21.63
	16QAM	1	0	1	21.65	21.74	21.64
			38	1	21.56	21.91	21.62
			74	1	21.58	21.74	21.79
		36	0	2	21.62	21.74	21.63
			18	2	21.57	21.99	21.60
			39	2	21.60	21.73	21.79
		75	0	2	20.55	20.91	20.57
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel 20050	Channel 20175	Channel 20300
20MHz	QPSK	1	0	0	22.58	22.70	22.79
			50	0	22.66	**23.17**	22.56
			99	0	22.64	22.58	22.70
		50	0	1	21.54	21.78	21.64
			25	1	21.45	21.81	21.65
			50	1	21.69	21.85	21.55
		100	0	1	21.63	21.89	21.63
	16QAM	1	0	1	21.43	21.61	21.87
			50	1	21.60	21.97	21.76
			99	1	21.58	21.47	21.82
		50	0	2	20.53	20.77	20.65
			25	2	20.47	20.83	20.69
			50	2	20.66	20.82	20.54
		100	0	2	20.56	20.77	20.60

Conducted Power of LTE Band 5(dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					20407	20525	20643
1.4MHz	QPSK	1	0	0	23.16	23.18	23.77
			3	0	23.32	23.32	**23.90**
			5	0	23.17	23.28	23.80
		3	0	0	23.17	23.25	23.76
			2	0	23.17	23.21	23.74
			3	0	23.21	23.26	23.73
		6	0	1	22.15	22.26	22.77
	16QAM	1	0	1	21.90	22.00	22.46
			3	1	22.14	22.20	22.68
			5	1	21.88	22.11	22.45
		3	0	1	21.96	21.97	22.51
			2	1	21.94	21.98	22.50
			3	1	21.96	22.02	22.51
		6	0	2	21.00	21.27	21.62
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					20415	20525	20635
3MHz	QPSK	1	0	0	23.19	23.09	23.84
			7	0	23.12	23.30	23.84
			14	0	23.05	23.39	23.83
		8	0	1	22.18	22.15	22.74
			4	1	22.18	22.14	22.77
			7	1	22.13	22.33	22.73
		15	0	1	22.09	22.23	22.69
	16QAM	1	0	1	22.15	22.00	22.52
			7	1	22.07	22.22	22.48
			14	1	22.00	22.31	22.51
		8	0	2	21.20	21.19	21.73
			4	2	21.20	21.22	21.74
			7	2	21.13	21.34	21.70
		15	0	2	21.09	21.23	21.67

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	23.14	22.98	23.72
			13	0	23.16	23.41	23.82
			24	0	22.91	23.45	23.69
		12	0	1	22.11	22.11	22.74
			6	1	22.10	22.08	22.69
			13	1	21.94	22.31	22.67
		25	0	1	22.04	22.21	22.66
	16QAM	1	0	1	22.02	21.87	22.67
			13	1	22.05	22.25	22.77
			24	1	21.79	22.32	22.64
		12	0	2	21.09	21.09	21.75
			6	2	21.07	21.07	21.74
			13	2	20.94	21.34	21.70
		25	0	2	21.04	21.22	21.68
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel 20450	Channel 20525	Channel 20600
10MHz	QPSK	1	0	0	23.15	22.95	23.57
			25	0	23.01	23.47	23.89
			49	0	22.87	23.74	23.77
		25	0	1	22.06	22.02	22.70
			13	1	22.07	22.02	22.75
			25	1	21.86	22.53	22.76
		50	0	1	21.93	22.23	22.70
	16QAM	1	0	1	22.09	21.64	22.31
			25	1	22.01	22.17	22.63
			49	1	21.86	22.46	22.48
		25	0	2	21.08	21.06	21.78
			13	2	21.11	21.07	21.78
			25	2	20.83	21.59	21.78
		50	0	2	20.99	21.31	21.73

Conducted Power of LTE Band 7 (dBm)							
Bandwidth	**Modulation**	**RB size**	**RB offset**	**Target MPR**	**Channel**	**Channel**	**Channel**
					20775	**21100**	**21425**
5MHz	QPSK	1	0	0	23.80	23.49	22.23
			12	0	**23.84**	23.57	22.20
			24	0	23.66	23.49	22.03
		12	0	1	22.80	22.57	21.31
			6	1	22.81	22.57	21.20
			13	1	22.80	22.56	21.10
		25	0	1	22.81	22.57	21.14
	16QAM	1	0	1	22.95	22.53	21.28
			12	1	22.99	22.59	21.11
			24	1	22.86	22.53	20.89
		12	0	2	21.82	21.51	20.30
			6	2	21.83	21.53	20.07
			13	2	21.81	21.51	20.00
		25	0	2	21.83	21.55	19.95
Bandwidth	**Modulation**	**RB size**	**RB offset**	**Target MPR**	**Channel**	**Channel**	**Channel**
					20800	**21100**	**21400**
10MHz	QPSK	1	0	0	21.15	20.42	20.89
			24	0	21.27	20.15	20.96
			49	0	21.11	20.05	20.92
		25	0	1	20.17	19.16	19.91
			12	1	20.21	19.14	19.93
			25	1	20.10	19.14	19.91
		50	0	1	19.97	19.14	19.91
	16QAM	1	0	1	20.13	18.99	19.86
			24	1	20.15	18.98	19.96
			49	1	19.98	18.87	19.76
		25	0	2	19.11	18.06	18.76
			12	2	19.16	18.08	18.75
			25	2	18.98	18.11	18.77
		50	0	2	18.54	18.03	18.78

Conducted Power of LTE Band 7 (dBm)							
Bandwidth	**Modulation**	**RB size**	**RB offset**	**Target MPR**	**Channel**	**Channel**	**Channel**
					20825	**21100**	**21375**
15MHz	QPSK	1	0	0	20.67	20.30	20.64
			37	0	20.69	20.12	20.92
			74	0	20.71	20.17	20.75
		37	0	1	19.82	19.37	20.13
			16	1	19.86	19.34	20.08
			35	1	19.84	19.34	20.14
		75	0	1	19.86	19.38	20.09
	16QAM	1	0	1	19.84	18.87	19.54
			37	1	18.10	18.96	19.51
			74	1	19.93	20.45	20.05
		37	0	2	20.02	20.59	20.03
			16	2	19.89	20.45	19.92
			35	2	18.95	19.55	19.00
		75	0	2	18.94	19.55	19.03
Bandwidth	**Modulation**	**RB size**	**RB offset**	**Target MPR**	**Channel**	**Channel**	**Channel**
					20850	**21100**	**21350**
20MHz	QPSK	1	0	0	22.04	23.66	21.95
			49	0	19.06	19.73	18.10
			99	0	20.61	19.62	19.93
		50	0	1	20.80	19.73	21.11
			25	1	20.61	19.62	21.26
			49	1	19.75	18.59	21.11
		100	0	1	19.76	18.55	20.17
	16QAM	1	0	1	20.21	19.14	19.93
			49	1	20.10	19.14	19.91
			99	1	19.97	19.14	20.91
		50	0	2	20.45	20.89	20.13
			25	2	20.15	20.96	20.15
			49	2	20.05	20.97	19.92
		100	0	2	19.16	19.91	19.11

Conducted Power of LTE Band 17(dBm)							
Bandwidth	**Modulation**	**RB size**	**RB offset**	**Target MPR**	**Channel**	**Channel**	**Channel**
					23755	**23790**	**23825**
5MHz	QPSK	1	0	0	23.60	23.54	23.40
			13	0	**23.79**	23.59	23.24
			24	0	23.60	23.28	22.85
		12	0	1	22.61	22.49	22.42
			6	1	22.59	22.50	22.42
			13	1	22.68	22.32	21.99
		25	0	1	22.65	22.42	22.20
	16QAM	1	0	1	22.48	22.53	22.19
			13	1	22.63	22.52	22.06
			24	1	22.51	22.22	21.66
		12	0	2	21.58	21.47	21.36
			6	2	21.54	21.51	21.34
			13	2	21.65	21.33	20.92
		25	0	2	21.70	21.36	21.22
Bandwidth	**Modulation**	**RB size**	**RB offset**	**Target MPR**	**Channel**	**Channel**	**Channel**
					23780	**23790**	**23800**
10MHz	QPSK	1	0	0	23.61	23.68	23.63
			25	0	23.70	23.70	23.58
			49	0	23.21	23.07	22.94
		25	0	1	22.61	22.50	22.48
			13	1	22.61	22.50	22.50
			25	1	22.24	22.19	22.07
		50	0	1	22.38	22.35	22.27
	16QAM	1	0	1	22.59	22.43	22.40
			25	1	22.62	22.37	22.28
			49	1	22.11	21.85	21.69
		25	0	2	21.50	21.52	21.52
			13	2	21.50	21.52	21.50
			25	2	21.25	21.11	21.07
		50	0	2	21.40	21.33	21.28

Conducted Power of LTE Band 38 (dBm)							
Bandwidth	**Modulation**	**RB size**	**RB offset**	**Target MPR**	**Channel**	**Channel**	**Channel**
					37775	**38000**	**38225**
5MHz	QPSK	1	0	0	23.15	22.75	23.46
			12	0	23.14	22.95	23.66
			24	0	22.87	22.84	23.53
		12	0	1	22.13	21.79	22.51
			6	1	22.14	21.76	22.53
			13	1	21.98	21.79	22.54
		25	0	1	21.99	21.82	22.53
	16QAM	1	0	1	22.16	21.62	22.35
			12	1	22.15	21.82	22.52
			24	1	21.90	21.70	22.43
		12	0	2	21.09	20.79	21.41
			6	2	21.09	20.79	21.42
			13	2	20.90	20.83	21.45
		25	0	2	21.02	20.89	21.56
Bandwidth	**Modulation**	**RB size**	**RB offset**	**Target MPR**	**Channel**	**Channel**	**Channel**
					37800	**38000**	**38200**
10MHz	QPSK	1	0	0	23.22	22.84	23.30
			24	0	23.19	23.14	**23.81**
			49	0	22.80	22.98	23.57
		25	0	1	22.11	21.86	22.47
			12	1	22.13	21.86	22.47
			25	1	21.87	21.88	22.59
		50	0	1	21.95	21.84	22.47
	16QAM	1	0	1	22.21	21.63	22.07
			24	1	22.20	21.92	22.53
			49	1	21.82	21.73	22.31
		25	0	2	21.06	20.84	21.46
			12	2	21.06	20.84	21.47
			25	2	20.86	20.90	21.59
		50	0	2	20.94	20.86	21.52

Conducted Power of LTE Band 38 (dBm)							
Bandwidth	**Modulation**	**RB size**	**RB offset**	**Target MPR**	**Channel**	**Channel**	**Channel**
					37825	**38000**	**38175**
15MHz	QPSK	1	0	0	23.11	22.57	23.07
			38	0	22.85	22.80	23.44
			74	0	22.63	22.85	23.48
		37	0	1	22.12	21.69	21.78
			18	1	21.86	21.91	22.20
			37	1	21.63	21.97	22.19
		75	0	1	21.92	21.88	22.39
	16QAM	1	0	1	22.09	21.72	21.81
			38	1	21.89	21.95	22.19
			74	1	21.66	21.97	22.21
		37	0	2	22.12	21.72	21.82
			18	2	21.89	21.91	22.17
			37	2	21.63	21.95	22.20
		75	0	2	20.88	20.87	21.39
Bandwidth	**Modulation**	**RB size**	**RB offset**	**Target MPR**	**Channel**	**Channel**	**Channel**
					37850	**38000**	**38150**
20MHz	QPSK	1	0	0	23.10	22.62	22.81
			49	0	23.09	23.16	23.54
			99	0	22.72	22.95	23.39
		50	0	1	21.90	21.73	22.15
			25	1	21.92	21.77	22.16
			49	1	21.71	21.89	22.39
		100	0	1	21.80	21.82	22.31
	16QAM	1	0	1	21.95	21.72	21.61
			49	1	21.99	22.25	22.31
			99	1	21.60	22.05	22.23
		50	0	2	20.88	20.75	21.20
			25	2	20.86	20.76	21.19
			49	2	20.70	20.87	21.49
		100	0	2	20.81	20.80	21.29

Conducted Power of LTE Band 41(dBm)							
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					39675	40620	41565
5MHz	QPSK	1	0	0	20.02	23.17	19.46
			12	0	19.58	23.35	18.61
			24	0	19.88	23.28	18.03
		12	0	1	19.49	22.09	18.80
			6	1	19.44	22.05	18.70
			13	1	18.70	22.18	18.09
		25	0	1	18.06	22.11	18.28
	16QAM	1	0	1	18.02	22.49	18.87
			12	1	19.15	22.62	18.18
			24	1	18.81	22.58	18.61
		12	0	2	19.54	21.12	18.13
			6	2	20.33	21.04	18.04
			13	2	18.01	21.09	19.43
		25	0	2	19.33	21.12	19.62
Bandwidth	Modulation	RB size	RB offset	Target MPR	Channel	Channel	Channel
					39700	40620	41540
10MHz	QPSK	1	0	0	20.64	21.58	21.25
			24	0	19.12	21.64	19.44
			49	0	20.40	21.62	18.03
		25	0	1	20.09	20.52	20.21
			12	1	20.07	20.55	20.22
			25	1	18.64	20.60	18.76
		50	0	1	19.51	20.57	19.62
	16QAM	1	0	1	20.85	20.59	20.84
			24	1	20.14	20.69	19.04
			49	1	20.61	20.62	18.63
		25	0	2	19.98	19.63	19.74
			12	2	19.36	19.61	19.74
			25	2	20.96	19.68	18.19
		50	0	2	19.80	19.60	19.01

Conducted Power of LTE Band 41(dBm)							
Bandwidth	**Modulation**	**RB size**	**RB offset**	**Target MPR**	**Channel**	**Channel**	**Channel**
					39725	**40620**	**41515**
15MHz	QPSK	1	0	0	20.22	22.03	23.03
			37	0	19.14	21.80	20.56
			74	0	20.07	21.92	18.44
		37	0	1	19.42	20.89	20.74
			19	1	19.40	20.92	20.71
			38	1	19.41	20.94	20.71
		75	0	1	19.41	20.91	20.69
	16QAM	1	0	1	20.39	21.03	22.79
			37	1	18.29	20.80	20.19
			74	1	20.17	20.95	18.03
		37	0	2	19.39	20.91	20.72
			19	2	19.41	20.91	20.71
			38	2	19.41	20.92	20.67
		75	0	2	18.78	19.94	20.22
Bandwidth	**Modulation**	**RB size**	**RB offset**	**Target MPR**	**Channel**	**Channel**	**Channel**
					39750	**40620**	**41490**
20MHz	QPSK	1	0	0	20.32	22.30	**23.42**
			49	0	20.49	22.19	21.65
			99	0	19.30	22.16	18.69
		50	0	1	18.32	21.12	22.89
			25	1	18.29	21.09	22.78
			50	1	20.56	21.16	20.26
		100	0	1	21.29	21.16	21.82
	16QAM	1	0	1	20.41	21.28	22.56
			49	1	19.55	21.12	21.20
			99	1	20.25	21.07	18.13
		50	0	2	19.59	20.13	21.78
			25	2	19.59	20.17	21.78
			50	2	22.54	20.19	19.63
		100	0	2	20.64	20.22	21.33

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

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

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

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

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

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

WIFI

Mode	Data Rate (Mbps)	Channel	Frequency(MHz)	Avg. Burst Power(dBm)
802.11b	1	01	2412	15.61
		06	2437	15.22
		11	2462	**15.87**
802.11g	6	01	2412	13.36
		06	2437	13.50
		11	2462	13.85
802.11n(20)	6.5	01	2412	13.22
		06	2437	13.46
		11	2462	13.79
802.11n(40)	13.5	03	2422	12.77
		06	2437	12.77
		09	2452	13.56

Bluetooth_V5.0(BR/EDR)

Modulation	Channel	Frequency(MHz)	Peak Power (dBm)
GFSK	0	2402	**3.655**
	39	2441	1.659
	78	2480	3.000
π /4-DQPSK	0	2402	3.003
	39	2441	1.046
	78	2480	2.918
8-DPSK	0	2402	2.939
	39	2441	0.903
	78	2480	2.776

Bluetooth_V5.0(BLE)

Modulation	Channel	Frequency(MHz)	Peak Power (dBm)
GFSK	0	2402	-4.459
	19	2440	-6.122
	39	2480	**-4.057**
GFSK	0	2402	-4.611
	19	2440	-6.225
	39	2480	**-4.250**

5GHz WIFI

Mode	channel	Frequency	Power(dBm)							
			Data Rate(bps)							
			6M	9M	12M	18M	24M	36M	48M	54M
802.11a	36	5180	**12.96**	12.77	12.72	12.68	12.62	12.50	12.44	12.30
	40	5200	12.76	12.68	12.57	12.43	12.42	12.42	12.37	12.36
	44	5220	12.63	12.58	12.47	12.43	12.25	12.15	12.06	12.02
	48	5240	12.44	12.26	12.12	12.07	12.01	11.98	11.80	11.75
	52	5260	12.22	12.16	12.00	11.97	11.85	11.83	11.80	11.73
	56	5280	11.86	11.73	11.66	11.64	11.55	11.49	11.45	11.30
	60	5300	11.97	11.82	11.75	11.56	11.55	11.49	11.44	11.31
	64	5320	11.74	11.57	11.42	11.23	11.22	11.15	11.09	10.89
	100	5500	11.21	11.21	11.10	11.00	10.87	10.73	10.60	10.59
	104	5520	11.53	11.49	11.33	11.31	11.28	11.15	11.08	11.05
	108	5540	11.86	11.69	11.57	11.50	11.38	11.28	11.26	11.19
	112	5560	11.95	11.81	11.62	11.56	11.56	11.43	11.32	11.29
	116	5580	12.06	11.90	11.70	11.60	11.44	11.36	11.24	11.14
	120	5600	**12.49**	12.40	12.24	12.11	12.01	11.99	11.93	11.89
	124	5620	12.33	12.32	12.18	11.99	11.83	11.83	11.83	11.81
	128	5640	12.21	12.09	11.91	11.87	11.84	11.80	11.76	11.70
	132	5660	12.05	12.02	11.84	11.69	11.53	11.44	11.28	11.17
	136	5680	11.86	11.74	11.66	11.62	11.46	11.35	11.21	11.10
	140	5700	11.90	11.78	11.64	11.48	11.48	11.42	11.34	11.30
	149	5745	**11.06**	10.99	10.89	10.70	10.66	10.63	10.60	10.48
	157	5785	10.79	10.64	10.57	10.47	10.37	10.18	10.03	9.91
	165	5825	10.68	10.60	10.60	10.42	10.37	10.28	10.14	10.03

Mode	channel	Frequency	Power(dBm)							
			Data Rate(bps)							
			MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
802.11n (20)	36	5180	12.78	12.61	12.53	12.42	12.39	12.33	12.24	12.16
	40	5200	12.55	12.43	12.38	12.34	12.19	12.12	11.98	11.87
	44	5220	12.43	12.26	12.15	12.00	11.81	11.63	11.58	11.40
	48	5240	12.42	12.30	12.26	12.23	12.12	12.00	11.96	11.78
	52	5260	11.97	11.85	11.72	11.63	11.58	11.58	11.41	11.30
	56	5280	11.86	11.83	11.64	11.46	11.32	11.20	11.00	10.88
	60	5300	12.55	12.41	12.37	12.19	11.99	11.87	11.81	11.79
	64	5320	12.56	12.46	12.33	12.21	12.16	11.98	11.79	11.67
	100	5500	11.27	11.22	11.13	11.09	10.93	10.83	10.79	10.67
	104	5520	11.61	11.54	11.50	11.40	11.26	11.23	11.19	11.17
	108	5540	11.75	11.73	11.66	11.57	11.49	11.32	11.13	11.09
	112	5560	11.92	11.75	11.67	11.51	11.43	11.36	11.31	11.26
	116	5580	12.11	12.07	12.05	12.04	11.93	11.75	11.56	11.46
	120	5600	12.30	12.23	12.19	12.08	11.98	11.86	11.78	11.64
	124	5620	12.21	12.10	12.09	11.95	11.88	11.77	11.71	11.70
	128	5640	11.91	11.73	11.72	11.66	11.50	11.41	11.26	11.19
	132	5660	11.86	11.81	11.69	11.68	11.66	11.47	11.30	11.20
	136	5680	11.80	11.61	11.41	11.28	11.13	11.04	11.02	10.99
	140	5700	11.76	11.70	11.67	11.66	11.63	11.47	11.38	11.19
	149	5745	10.92	10.91	10.80	10.64	10.53	10.33	10.31	10.20
	157	5785	10.85	10.79	10.71	10.52	10.44	10.36	10.18	10.12
	165	5825	10.53	10.53	10.40	10.36	10.27	10.11	9.93	9.87
			MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
802.11n (40)	38	5190	12.56	12.49	12.29	12.25	12.07	11.92	11.86	11.67
	46	5230	12.61	12.55	12.51	12.47	12.40	12.21	12.02	11.97
	54	5270	**12.71**	12.58	12.38	12.22	12.03	11.98	11.81	11.77
	62	5310	12.50	12.35	12.30	12.23	12.20	12.06	12.06	11.97
	102	5510	10.47	10.35	10.33	10.27	10.20	10.06	9.96	9.95
	110	5550	10.36	10.30	10.18	10.07	9.99	9.89	9.82	9.75
	118	5590	11.54	11.41	11.33	11.15	10.97	10.84	10.76	10.66
	126	5630	11.43	11.38	11.23	11.14	11.03	10.86	10.69	10.62
	134	5670	11.47	11.34	11.24	11.17	11.11	11.01	10.85	10.68
	151	5755	11.00	10.86	10.78	10.68	10.67	10.58	10.56	10.38
	159	5795	10.81	10.72	10.68	10.51	10.50	10.48	10.38	10.20

Mode	channel	Frequency	Power(dBm)							
			Data Rate(bps)							
			MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
802.11ac (20)	36	5180	11.23	11.15	11.06	11.03	10.92	10.83	10.67	10.64
	40	5200	11.35	11.18	11.02	11.02	10.97	10.85	10.66	10.64
	44	5220	11.22	11.18	11.09	10.94	10.84	10.71	10.51	10.32
	48	5240	11.39	11.34	11.23	11.04	10.98	10.89	10.84	10.69
	52	5260	11.66	11.56	11.41	11.39	11.19	11.10	10.90	10.78
	56	5280	11.30	11.26	11.13	11.04	10.88	10.84	10.68	10.63
	60	5300	11.44	11.29	11.28	11.08	11.00	10.96	10.88	10.68
	64	5320	11.48	11.40	11.22	11.16	11.06	11.05	10.88	10.69
	100	5500	10.27	10.18	9.98	9.79	9.73	9.57	9.43	9.42
	104	5520	10.21	10.14	10.13	9.98	9.79	9.74	9.54	9.46
	108	5540	10.68	10.62	10.49	10.41	10.34	10.32	10.15	10.01
	112	5560	10.36	10.35	10.25	10.07	9.90	9.87	9.68	9.49
	116	5580	10.92	10.77	10.63	10.50	10.48	10.42	10.34	10.19
	120	5600	11.14	11.01	10.90	10.71	10.58	10.39	10.21	10.21
	124	5620	10.86	10.81	10.77	10.67	10.58	10.47	10.45	10.30
	128	5640	10.73	10.55	10.51	10.41	10.34	10.34	10.24	10.07
	132	5660	10.36	10.18	10.04	9.90	9.90	9.86	9.86	9.66
	136	5680	10.71	10.61	10.51	10.49	10.36	10.30	10.14	10.02
	140	5700	10.75	10.68	10.51	10.33	10.16	10.05	10.01	9.86
	149	5745	9.72	9.71	9.55	9.51	9.31	9.18	9.01	8.84
	157	5785	9.50	9.48	9.36	9.33	9.33	9.15	9.15	9.05
	165	5825	9.55	9.38	9.23	9.13	8.95	8.85	8.78	8.68
			MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
802.11ac (40)	38	5190	11.42	11.30	11.30	11.10	11.01	10.83	10.72	10.62
	46	5230	11.63	11.62	11.56	11.55	11.51	11.36	11.16	11.03
	54	5270	11.72	11.53	11.38	11.31	11.22	11.12	10.96	10.93
	62	5310	11.70	11.58	11.56	11.43	11.42	11.32	11.27	11.27
	102	5510	9.38	9.36	9.24	9.04	8.97	8.78	8.70	8.67
	110	5550	9.68	9.53	9.37	9.20	9.09	9.05	8.86	8.84
	118	5590	10.43	10.42	10.29	10.28	10.14	9.95	9.77	9.58
	126	5630	10.22	10.05	10.03	9.88	9.88	9.77	9.63	9.57
	134	5670	10.39	10.21	10.18	10.09	9.90	9.75	9.70	9.59
	151	5755	10.07	9.91	9.73	9.57	9.51	9.32	9.19	9.02
	159	5795	9.83	9.81	9.67	9.61	9.53	9.34	9.31	9.17
			MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
802.11ac (80)	42	5210	11.89	11.72	11.68	11.57	11.47	11.32	11.18	11.14
	58	5290	12.22	12.18	12.08	11.96	11.89	11.70	11.62	11.51
	106	5530	10.07	10.03	9.90	9.76	9.61	9.59	9.52	9.42
	122	5610	10.74	10.54	10.41	10.22	10.16	10.13	9.95	9.84
	138	5690	10.60	10.51	10.41	10.32	10.23	10.10	10.05	9.87
	155	5775	10.41	10.28	10.27	10.20	10.09	10.08	10.06	9.89

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.

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.

13.1.3. Test Result

SAR MEASUREMENT									
Depth of Liquid (cm):>15				Relative Humidity (%): 54.5					
Product: TD-LTE wireless data terminal									
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	-0.09	**0.202**	32.70	32.50	**0.212**	1.6
Left Tilt	voice	190	836.6	0.96	0.092	32.70	32.50	0.096	1.6
Right Cheek	voice	190	836.6	-0.33	0.165	32.70	32.50	0.173	1.6
Right Tilt	voice	190	836.6	-0.80	0.089	32.70	32.50	0.093	1.6
Body back	voice	190	836.6	-0.16	**0.498**	32.70	32.50	**0.521**	1.6
Body front	voice	190	836.6	0.55	0.227	32.70	32.50	0.238	1.6
Body back	GPRS-3 slot	128	824.2	-0.50	0.825	29.50	29.21	0.882	1.6
Body back	GPRS-3 slot	190	836.6	-0.49	**0.836**	29.50	29.02	**0.934**	1.6
Body back	GPRS-3 slot	251	848.8	0.51	0.782	29.50	29.14	0.850	1.6
Body front	GPRS-3 slot	190	836.6	-0.97	0.304	29.50	29.02	0.340	1.6
Edge 2(Right)	GPRS-3 slot	190	836.6	-0.28	0.229	29.50	29.02	0.256	1.6
Edge 3(Bottom)	GPRS-3 slot	190	836.6	0.05	0.188	29.50	29.02	0.210	1.6
Edge 4(Left)	GPRS-3 slot	190	836.6	-0.42	0.411	29.50	29.02	0.459	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.

SAR MEASUREMENT									
Depth of Liquid (cm):>15				Relative Humidity (%): 49.8					
Product: TD-LTE wireless data terminal									
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	-0.08	**0.073**	29.60	29.42	**0.076**	1.6
Left Tilt	voice	661	1880.0	-0.46	0.019	29.60	29.42	0.020	1.6
Right Cheek	voice	661	1880.0	0.12	0.061	29.60	29.42	0.064	1.6
Right Tilt	voice	661	1880.0	-0.04	0.027	29.60	29.42	0.028	1.6
Body back	voice	661	1880.0	0.91	**0.421**	29.60	29.42	**0.439**	1.6
Body front	voice	661	1880.0	0.75	0.107	29.60	29.42	0.112	1.6
Body back	GPRS-2 slot	661	1880	0.25	**0.726**	27.80	27.56	**0.767**	1.6
Body front	GPRS-2 slot	661	1880.0	0.42	0.138	27.80	27.56	0.146	1.6
Edge 2(Right)	GPRS-2 slot	661	1880.0	-0.87	0.093	27.80	27.56	0.098	1.6
Edge 3(Bottom)	GPRS-2 slot	661	1880.0	-0.58	0.216	27.80	27.56	0.228	1.6
Edge 4(Left)	GPRS-2 slot	661	1880.0	0.25	0.036	27.80	27.56	0.038	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.

SAR MEASUREMENT									
Depth of Liquid (cm):>15				Relative Humidity (%): 49.8					
Product: TD-LTE wireless data terminal									
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	-0.71	0.061	23.20	22.73	0.068	1.6
Left Tilt	RMC 12.2kbps	9400	1880	0.81	0.041	23.20	22.73	0.046	1.6
Right Cheek	RMC 12.2kbps	9400	1880	-0.86	0.084	23.20	22.73	0.094	1.6
Right Tilt	RMC 12.2kbps	9400	1880	-0.46	**0.098**	23.20	22.73	**0.109**	1.6
Body back	RMC 12.2kbps	9400	1880	-0.83	**0.390**	23.20	22.73	**0.435**	1.6
Body front	RMC 12.2kbps	9400	1880	0.41	0.110	23.20	22.73	0.123	1.6
Edge 2(Right)	RMC 12.2kbps	9400	1880	-0.68	0.060	23.20	22.73	0.067	1.6
Edge 3(Bottom)	RMC 12.2kbps	9400	1880	0.04	0.374	23.20	22.73	0.417	1.6
Edge 4(Left)	RMC 12.2kbps	9400	1880	-0.44	0.022	23.20	22.73	0.025	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.

SAR MEASUREMENT									
Depth of Liquid (cm):>15				Relative Humidity (%): 55.2					
Product: TD-LTE wireless data terminal									
Test Mode: WCDMA Band IV 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	8662	1732.4	-0.37	**0.130**	22.20	21.83	**0.142**	1.6
Left Tilt	RMC 12.2kbps	8662	1732.4	-0.75	0.041	22.20	21.83	0.045	1.6
Right Cheek	RMC 12.2kbps	8662	1732.4	0.26	0.117	22.20	21.83	0.127	1.6
Right Tilt	RMC 12.2kbps	8662	1732.4	-0.76	0.060	22.20	21.83	0.065	1.6
Body back	RMC 12.2kbps	8562	1712.4	-0.42	0.821	22.20	22.10	0.840	1.6
Body back	RMC 12.2kbps	8662	1732.4	0.93	**0.883**	22.20	21.83	**0.962**	1.6
Body back	RMC 12.2kbps	8763	1752.6	-0.48	0.821	22.20	21.81	0.898	1.6
Body front	RMC 12.2kbps	8662	1732.4	-0.01	0.166	22.20	21.83	0.181	1.6
Edge 2(Right)	RMC 12.2kbps	8662	1732.4	0.04	0.177	22.20	21.83	0.193	1.6
Edge 3(Bottom)	RMC 12.2kbps	8662	1732.4	-0.98	0.512	22.20	21.83	0.558	1.6
Edge 4(Left)	RMC 12.2kbps	8662	1732.4	0.42	0.104	22.20	21.83	0.113	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.

SAR MEASUREMENT									
Depth of Liquid (cm):>15				Relative Humidity (%):54.5					
Product: TD-LTE wireless data terminal									
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	-0.37	**0.243**	23.00	22.84	**0.252**	1.6
Left Tilt	RMC 12.2kbps	4183	836.4	-0.18	0.087	23.00	22.84	0.090	1.6
Right Cheek	RMC 12.2kbps	4183	836.4	0.75	0.219	23.00	22.84	0.227	1.6
Right Tilt	RMC 12.2kbps	4183	836.4	-0.32	0.094	23.00	22.84	0.098	1.6
Body back	RMC 12.2kbps	4183	836.4	-0.68	**0.422**	23.00	22.84	**0.438**	1.6
Body front	RMC 12.2kbps	4183	836.4	0.23	0.232	23.00	22.84	0.241	1.6
Edge 2(Right)	RMC 12.2kbps	4183	836.4	0.65	0.191	23.00	22.84	0.198	1.6
Edge 3(Bottom)	RMC 12.2kbps	4183	836.4	-0.67	0.142	23.00	22.84	0.147	1.6
Edge 4(Left)	RMC 12.2kbps	4183	836.4	0.87	0.347	23.00	22.84	0.360	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.

SAR MEASUREMENT												
Depth of Liquid (cm):>15					Relative Humidity (%): 49.8							
Product: TD-LTE wireless data terminal												
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	-0.34	0.108	22.80	22.78	0.108	1.6
		Left Tilt	1	0	18900	1880	-0.85	0.038	22.80	22.78	0.038	1.6
		Right Cheek	1	0	18900	1880	0.63	**0.179**	22.80	22.78	**0.180**	1.6
		Right Tilt	1	0	18900	1880	-0.64	0.045	22.80	22.78	0.045	1.6
		Body back	1	0	18900	1880	-0.24	**0.530**	22.80	22.78	**0.532**	1.6
		Body front	1	0	18900	1880	0.19	0.083	22.80	22.78	0.083	1.6
		Edge 2(Right)	1	0	18900	1880	-0.59	0.086	22.80	22.78	0.086	1.6
		Edge 3(Bottom)	1	0	18900	1880	-0.79	0.199	22.80	22.78	0.200	1.6
		Edge 4(Left)	1	0	18900	1880	0.12	0.060	22.80	22.78	0.060	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.

SAR MEASUREMENT												
Depth of Liquid (cm):>15					Relative Humidity (%): 55.2							
Product: TD-LTE wireless data terminal												
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	-0.85	0.273	23.20	22.70	0.306	1.6
		Left Tilt	1	0	20175	1732.5	-0.09	0.124	23.20	22.70	0.139	1.6
		Right Cheek	1	0	20175	1732.5	0.25	**0.374**	23.20	22.70	**0.420**	1.6
		Right Tilt	1	0	20175	1732.5	-0.38	0.186	23.20	22.70	0.209	1.6
		Body back	1	0	20175	1732.5	-0.59	**0.634**	23.20	22.70	**0.711**	1.6
		Body front	1	0	20175	1732.5	0.99	0.383	23.20	22.70	0.430	1.6
		Edge 2(Right)	1	0	20175	1732.5	0.08	0.491	23.20	22.70	0.551	1.6
		Edge 3(Bottom)	1	0	20175	1732.5	0.50	0.277	23.20	22.70	0.311	1.6
		Edge 4(Left)	1	0	20175	1732.5	-0.89	0.079	23.20	22.70	0.089	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.

SAR MEASUREMENT												
Depth of Liquid (cm):>15					Relative Humidity (%): 54.5							
Product: TD-LTE wireless data terminal												
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	-0.07	0.281	24.00	22.95	0.358	1.6
		Left Tilt	1	0	20525	836.5	0.10	0.148	24.00	22.95	0.188	1.6
		Right Cheek	1	0	20525	836.5	-0.51	**0.334**	24.00	22.95	**0.425**	1.6
		Right Tilt	1	0	20525	836.5	-0.28	0.152	24.00	22.95	0.194	1.6
		Body back	1	0	20525	836.5	0.34	**0.372**	24.00	22.95	**0.474**	1.6
		Body front	1	0	20525	836.5	-0.36	0.222	24.00	22.95	0.283	1.6
		Edge 2(Right)	1	0	20525	836.5	-0.07	0.059	24.00	22.95	0.075	1.6
		Edge 3(Bottom)	1	0	20525	836.5	0.10	0.111	24.00	22.95	0.141	1.6
		Edge 4(Left)	1	0	20525	836.5	0.51	0.075	24.00	22.95	0.096	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.

SAR MEASUREMENT											
Depth of Liquid (cm):>15				Relative Humidity (%): 55.7							
Product: TD-LTE wireless data terminal											
Test Mode: LTE Band 7											
BM MHz	MOD	Position	Test Mode		Ch.	Freq. (MHz)	Power Drift (<±5%)	SAR (1g) (W/kg)	Max. Tuneup Power (dBm)	Meas. output Power (dBm)	Scaled SAR (W/kg)	Limit (W/kg)
			UL RB Allocation	UL RB START								
20	QPSK	Left Cheek	1	0	21100	2535	-0.21	0.147	23.84	23.66	0.153	1.6
		Left Tilt	1	0	21100	2535	-0.67	0.189	23.84	23.66	0.197	1.6
		Right Cheek	1	0	21100	2535	-0.64	**0.271**	23.84	23.66	**0.282**	1.6
		Right Tilt	1	0	21100	2535	0.11	0.124	23.84	23.66	0.129	1.6
		Body back	1	0	21100	2535	-0.29	**0.714**	23.84	23.66	**0.744**	1.6
		Body front	1	0	21100	2535	-0.79	0.286	23.84	23.66	0.298	1.6
		Edge 2(Right)	1	0	21100	2535	0.46	0.414	23.84	23.66	0.432	1.6
		Edge 3(Bottom)	1	0	21100	2535	0.88	0.345	23.84	23.66	0.360	1.6
		Edge 4(Left)	1	0	21100	2535	-0.32	0.168	23.84	23.66	0.175	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.

SAR MEASUREMENT												
Depth of Liquid (cm):>15					Relative Humidity (%): 57.2							
Product: TD-LTE wireless data terminal												
Test Mode: LTE Band 17												
BM MHz	**MOD**	**Position**	**Test Mode**		**Ch.**	**Freq. (MHz)**	**Power Drift (<±5%)**	**SAR (1g) (W/kg)**	**Max. Tuneup Power (dBm)**	**Meas. output Power (dBm)**	**Scaled SAR (W/kg)**	**Limit (W/kg)**
			UL RB Allocation	**UL RB START**								
10	**QPSK**	Left Cheek	1	0	23790	710	-0.47	0.334	23.80	23.68	0.343	1.6
		Left Tilt	1	0	23790	710	0.60	0.257	23.80	23.68	0.264	1.6
		Right Cheek	1	0	23790	710	-0.58	**0.342**	23.80	23.68	**0.352**	1.6
		Right Tilt	1	0	23790	710	-0.96	0.305	23.80	23.68	0.314	1.6
		Body back	1	0	23790	710	0.41	**0.495**	23.80	23.68	**0.509**	1.6
		Body front	1	0	23790	710	-0.01	0.240	23.80	23.68	0.247	1.6
		Edge 2(Right)	1	0	23790	710	0.87	0.154	23.80	23.68	0.158	1.6
		Edge 3(Bottom)	1	0	23790	710	0.99	0.052	23.80	23.68	0.053	1.6
		Edge 4(Left)	1	0	23790	710	-0.40	0.287	23.80	23.68	0.295	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.

SAR MEASUREMENT												
Depth of Liquid (cm):>15					Relative Humidity (%): 55.7							
Product: TD-LTE wireless data terminal												
Test Mode: LTE Band 38												
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	38000	2595	-0.93	**0.310**	23.90	22.62	**0.416**	1.6
		Left Tilt	1	0	38000	2595	-0.67	0.124	23.90	22.62	0.167	1.6
		Right Cheek	1	0	38000	2595	0.16	0.152	23.90	22.62	0.204	1.6
		Right Tilt	1	0	38000	2595	-0.52	0.061	23.90	22.62	0.082	1.6
		Body back	1	0	38000	2595	-0.81	**0.339**	23.90	22.62	**0.455**	1.6
		Body front	1	0	38000	2595	0.24	0.229	23.90	22.62	0.307	1.6
		Edge 2(Right)	1	0	38000	2595	-0.15	0.244	23.90	22.62	0.328	1.6
		Edge 3(Bottom)	1	0	38000	2595	-0.39	0.193	23.90	22.62	0.259	1.6
		Edge 4(Left)	1	0	38000	2595	0.51	0.106	23.90	22.62	0.142	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

SAR MEASUREMENT												
Depth of Liquid (cm):>15					Relative Humidity (%): 55.7							
Product: TD-LTE wireless data terminal												
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	0.18	0.126	23.50	22.30	0.166	1.6
		Left Tilt	1	0	40620	2593	-0.15	0.129	23.50	22.30	0.170	1.6
		Right Cheek	1	0	40620	2593	0.80	**0.176**	23.50	22.30	**0.232**	1.6
		Right Tilt	1	0	40620	2593	-0.06	0.098	23.50	22.30	0.129	1.6
		Body back	1	0	40620	2593	-0.12	**0.395**	23.50	22.30	**0.521**	1.6
		Body front	1	0	40620	2593	0.82	0.216	23.50	22.30	0.285	1.6
		Edge 2(Right)	1	0	40620	2593	-0.40	0.290	23.50	22.30	0.382	1.6
		Edge 3(Bottom)	1	0	40620	2593	0.88	0.200	23.50	22.30	0.264	1.6
		Edge 4(Left)	1	0	40620	2593	-0.15	0.111	23.50	22.30	0.146	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

SAR MEASUREMENT									
Depth of Liquid (cm):>15				Relative Humidity (%): 59.4					
Product: TD-LTE wireless data terminal									
Test Mode: 2.4GHz 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	-0.37	0.228	15.90	15.22	0.267	1.6
Left Tilt	DTS	6	2437	0.96	0.181	15.90	15.22	0.212	1.6
Right Cheek	DTS	6	2437	-0.07	**0.399**	15.90	15.22	**0.467**	1.6
Right Tilt	DTS	6	2437	-0.37	0.334	15.90	15.22	0.391	1.6
Body back	DTS	6	2437	-0.29	**0.226**	15.90	15.22	**0.264**	1.6
Body front	DTS	6	2437	0.15	0.109	15.90	15.22	0.127	1.6
Edge 1 (Top)	DTS	6	2437	-0.21	0.040	15.90	15.22	0.047	1.6
Edge 4(Left)	DTS	6	2437	0.93	0.084	15.90	15.22	0.098	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.

SAR MEASUREMENT								
Depth of Liquid (cm):>15				Relative Humidity (%): 54.2				
Product: TD-LTE wireless data terminal								
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	-0.78	0.216	13.00	12.76	0.228	1.6
Left Tilt	40	5200	-0.04	0.211	13.00	12.76	0.223	1.6
Right Cheek	40	5200	0.07	**0.628**	13.00	12.76	**0.664**	1.6
Right Tilt	40	5200	-0.79	0.579	13.00	12.76	0.612	1.6
Body back	40	5200	-0.74	**0.216**	13.00	12.76	**0.228**	1.6
Body front	40	5200	-0.63	0.124	13.00	12.76	0.131	1.6
Edge 1 (Top)	40	5200	0.94	0.180	13.00	12.76	0.190	1.6
Edge 4(Left)	40	5200	0.76	0.182	13.00	12.76	0.192	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

SAR MEASUREMENT								
Depth of Liquid (cm):>15				Relative Humidity (%): 58.4				
Product: TD-LTE wireless data terminal								
Test Mode:5.3GHz WIFI-802.11n(40)								
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	54	5270	-0.32	0.539	12.80	12.71	0.550	1.6
Left Tilt	54	5270	-0.82	0.454	12.80	12.71	0.464	1.6
Right Cheek	54	5270	0.27	0.580	12.80	12.71	0.592	1.6
Right Tilt	54	5270	-0.66	**0.601**	12.80	12.71	**0.614**	1.6
Body back	54	5270	-0.20	**0.295**	12.80	12.71	**0.301**	1.6
Body front	54	5270	-0.49	0.094	12.80	12.71	0.096	1.6
Edge 1 (Top)	54	5270	0.11	0.183	12.80	12.71	0.187	1.6
Edge 4(Left)	54	5270	0.55	0.192	12.80	12.71	0.196	1.6

Note:
1. When the 1-g Reported SAR is ≤ 0.8 W/kg, testing for low and high channel is optional. Refer to KDB447498.
2. The test separation for body back, body front and 4 Edges is 10mm of all above table.

SAR MEASUREMENT								
Depth of Liquid (cm):>15				Relative Humidity (%): 50.4				
Product: TD-LTE wireless data terminal								
Test Mode:5.5GHz 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	120	5600	-0.23	0.124	12.50	12.49	0.124	1.6
Left Tilt	120	5600	0.70	0.188	12.50	12.49	0.188	1.6
Right Cheek	120	5600	0.55	**0.193**	12.50	12.49	**0.193**	1.6
Right Tilt	120	5600	0.37	0.189	12.50	12.49	0.189	1.6
Body back	120	5600	0.67	**0.286**	12.50	12.49	**0.287**	1.6
Body front	120	5600	-0.98	0.073	12.50	12.49	0.073	1.6
Edge 1 (Top)	120	5600	0.05	0.129	12.50	12.49	0.129	1.6
Edge 4(Left)	120	5600	-0.45	0.183	12.50	12.49	0.183	1.6

Note:
1. When the 1-g Reported SAR is ≤ 0.8 W/kg, testing for low and high channel is optional. Refer to KDB447498.
2. The test separation for body back, body front and 4 Edges is 10mm of all above table.

SAR MEASUREMENT								
Depth of Liquid (cm):>15				Relative Humidity (%): 54.9				
Product: TD-LTE wireless data terminal								
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	-0.82	0.182	11.10	10.79	0.195	1.6
Left Tilt	157	5785	-0.52	0.096	11.10	10.79	0.103	1.6
Right Cheek	157	5785	-0.00	**0.446**	11.10	10.79	**0.479**	1.6
Right Tilt	157	5785	0.59	0.173	11.10	10.79	0.186	1.6
Body back	157	5785	-0.09	0.179	11.10	10.79	0.192	1.6
Body front	157	5785	-0.17	0.070	11.10	10.79	0.075	1.6
Edge 1 (Top)	157	5785	0.62	0.081	11.10	10.79	0.087	1.6
Edge 4(Left)	157	5785	0.30	**0.587**	11.10	10.79	**0.630**	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

Repeated SAR										
Product: TD-LTE wireless data terminal										
Test Mode: GSM850& WCDMA Band IV										
Position	**Mode**	**Ch.**	**Fr. (MHz)**	**Power Drift (<±5%)**	**Once SAR (1g) (W/kg)**	**Power Drift (<±5%)**	**Twice SAR (1g) (W/kg)**	**Power Drift (<±5%)**	**Third SAR (1g) (W/kg)**	**Limit W/kg**
Body back	GPRS-3 slot	190	836.6	-0.41	0.810	--	--	--	--	1.6
Body back	RMC 12.2kbps	8662	1732.4	-0.29	0.802	--	--	--	--	1.6

The second repeated SAR judge reference								
Product: TD-LTE wireless data terminal								
Band	**Position**	**Mode**	**Ch.**	**Fr. (MHz)**	**Orignal SAR (1g) (W/kg)**	**First SAR (1g) (W/kg)**	**Ratio**	**Limit**
GSM850	Body back	GPRS-3 slot	190	836.6	0.836	0.810	1.032	＜1.2
WCDMA Band IV	Body back	RMC 12.2kbps	8662	1732.4	0.883	0.802	1.101	＜1.2

Simultaneous Multi-band Transmission Evaluation:

Application Simultaneous Transmission information:

NO	Simultaneous state	Portable Handset		
		Head	Body-worn	Hotspot
1	GSM(voice)+ WLAN 2.4GHz (data) &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 (data) &5GHz (data)	Yes	Yes	Yes
6	WCDMA+ Bluetooth(data)	Yes	Yes	Yes
7	LTE + WLAN 2.4GHz (data) &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.

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	4	2.512	0	0.104
	Body	4	2.512	10	0.052

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

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		GSM 850	WI-Fi DTS Band	Bluetooth		
Head (voice)	Left Touch	0.212	0.267		0.479	No
	Left Tilt	0.096	0.212		0.308	No
	Right Touch	0.173	0.467		0.640	No
	Right Tilt	0.093	0.391		0.484	No
Head (voice)	Left Touch	0.212		0.104	0.316	No
	Left Tilt	0.096		0.104	0.200	No
	Right Touch	0.173		0.104	0.277	No
	Right Tilt	0.093		0.104	0.197	No
Body-worn (voice)	Rear	0.521	0.264		0.785	No
		0.521		0.052	0.573	No
	Front	0.238	0.127		0.365	No
		0.238		0.052	0.290	No
Body-worn (Data)	Rear	0.934		0.052	0.986	No
		0.934	0.264		1.198	No
	Front	0.340		0.052	0.392	No
		0.340	0.127		0.467	No
Body-worn (Hotspot)	Edge 4	0.459	0.098		0.557	No
	Edge 4	0.459		0.052	0.511	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 “

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

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		PCS 1900	WI-Fi DTS Band	Bluetooth		
Head (voice)	Left Touch	0.076	0.267		0.343	No
	Left Tilt	0.020	0.212		0.232	No
	Right Touch	0.064	0.467		0.531	No
	Right Tilt	0.028	0.391		0.419	No
Head (voice)	Left Touch	0.076		0.104	0.180	No
	Left Tilt	0.020		0.104	0.124	No
	Right Touch	0.064		0.104	0.168	No
	Right Tilt	0.028		0.104	0.132	No
Body-worn (voice)	Rear	0.439	0.264		0.703	No
		0.439		0.052	0.491	No
	Front	0.112	0.127		0.239	No
		0.112		0.052	0.164	No
Body-worn (Data)	Rear	0.767		0.052	0.819	No
		0.767	0.264		1.031	No
	Front	0.146		0.052	0.198	No
		0.146	0.127		0.273	No
Body-worn (Hotspot)	Edge 4	0.038	0.098		0.136	No
	Edge 4	0.038		0.052	0.090	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 “

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	Wi-Fi DTS Band	Bluetooth		
Head	Left Touch	0.068	0.267		0.335	No
	Left Tilt	0.046	0.212		0.258	No
	Right Touch	0.094	0.467		0.561	No
	Right Tilt	0.109	0.391		0.500	No
Head	Left Touch	0.068		0.104	0.172	No
	Left Tilt	0.046		0.104	0.150	No
	Right Touch	0.094		0.104	0.198	No
	Right Tilt	0.109		0.104	0.213	No
Body-worn	Rear	0.435	0.264		0.699	No
	Front	0.123	0.127		0.250	No
	Edge 4	0.025	0.098		0.123	No
	Rear	0.435		0.052	0.487	No
	Front	0.123		0.052	0.175	No
	Edge 4	0.025		0.052	0.077	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 “

Sum of the SAR for WCDMA Band IV &Wi-Fi & BT:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		WCDMA Band IV	Wi-Fi DTS Band	Bluetooth		
Head	Left Touch	0.142	0.267		0.409	No
	Left Tilt	0.045	0.212		0.257	No
	Right Touch	0.127	0.467		0.594	No
	Right Tilt	0.065	0.391		0.456	No
Head	Left Touch	0.142		0.104	0.246	No
	Left Tilt	0.045		0.104	0.149	No
	Right Touch	0.127		0.104	0.231	No
	Right Tilt	0.065		0.104	0.169	No
Body-worn	Rear	0.962	0.264		1.226	No
	Front	0.181	0.127		0.308	No
	Edge 4	0.113	0.098		0.211	No
	Rear	0.962		0.052	1.014	No
	Front	0.181		0.052	0.233	No
	Edge 4	0.113		0.052	0.165	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 “

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	Wi-Fi DTS Band	Bluetooth		
Head	Left Touch	0.252	0.267		0.519	No
	Left Tilt	0.090	0.212		0.302	No
	Right Touch	0.227	0.467		0.694	No
	Right Tilt	0.098	0.391		0.489	No
Head	Left Touch	0.252		0.104	0.356	No
	Left Tilt	0.090		0.104	0.194	No
	Right Touch	0.227		0.104	0.331	No
	Right Tilt	0.098		0.104	0.202	No
Body-worn	Rear	0.438	0.264		0.702	No
	Front	0.241	0.127		0.368	No
	Edge 4	0.360	0.098		0.458	No
	Rear	0.438		0.052	0.490	No
	Front	0.241		0.052	0.293	No
	Edge 4	0.360		0.052	0.412	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 “

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	Wi-Fi DTS Band	Bluetooth		
Head	Left Touch	0.108	0.267		0.375	No
	Left Tilt	0.038	0.212		0.250	No
	Right Touch	0.180	0.467		0.647	No
	Right Tilt	0.045	0.391		0.436	No
Head	Left Touch	0.108		0.104	0.212	No
	Left Tilt	0.038		0.104	0.142	No
	Right Touch	0.180		0.104	0.284	No
	Right Tilt	0.045		0.104	0.149	No
Body-worn	Rear	0.532	0.264		0.796	No
	Front	0.083	0.127		0.210	No
	Edge 4	0.060	0.098		0.158	No
	Rear	0.532		0.052	0.584	No
	Front	0.083		0.052	0.135	No
	Edge 4	0.060		0.052	0.112	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 “

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	Wi-Fi DTS Band	Bluetooth		
Head	Left Touch	0.306	0.267		0.573	No
	Left Tilt	0.139	0.212		0.351	No
	Right Touch	0.420	0.467		0.887	No
	Right Tilt	0.209	0.391		0.600	No
Head	Left Touch	0.306		0.104	0.410	No
	Left Tilt	0.139		0.104	0.243	No
	Right Touch	0.420		0.104	0.524	No
	Right Tilt	0.209		0.104	0.313	No
Body-worn	Rear	0.711	0.264		0.975	No
	Front	0.430	0.127		0.557	No
	Edge 4	0.089	0.098		0.187	No
	Rear	0.711		0.052	0.763	No
	Front	0.430		0.052	0.482	No
	Edge 4	0.089		0.052	0.141	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 “

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	Wi-Fi DTS Band	Bluetooth		
Head	Left Touch	0.358	0.267		0.625	No
	Left Tilt	0.188	0.212		0.400	No
	Right Touch	0.425	0.467		0.892	No
	Right Tilt	0.194	0.391		0.585	No
Head	Left Touch	0.358		0.104	0.462	No
	Left Tilt	0.188		0.104	0.292	No
	Right Touch	0.425		0.104	0.529	No
	Right Tilt	0.194		0.104	0.298	No
Body-worn	Rear	0.474	0.264		0.738	No
	Front	0.283	0.127		0.410	No
	Edge 4	0.096	0.098		0.194	No
	Rear	0.474		0.052	0.526	No
	Front	0.283		0.052	0.335	No
	Edge 4	0.096		0.052	0.148	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 “

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

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 7	Wi-Fi DTS Band	Bluetooth		
Head	Left Touch	0.153	0.267		0.420	No
	Left Tilt	0.197	0.212		0.409	No
	Right Touch	0.282	0.467		0.749	No
	Right Tilt	0.129	0.391		0.520	No
Head	Left Touch	0.153		0.104	0.257	No
	Left Tilt	0.197		0.104	0.301	No
	Right Touch	0.282		0.104	0.386	No
	Right Tilt	0.129		0.104	0.233	No
Body-worn	Rear	0.744	0.264		1.008	No
	Front	0.298	0.127		0.425	No
	Edge 4	0.175	0.098		0.273	No
	Rear	0.744		0.052	0.796	No
	Front	0.298		0.052	0.350	No
	Edge 4	0.175		0.052	0.227	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 “

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

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 17	Wi-Fi DTS Band	Bluetooth		
Head	Left Touch	0.343	0.267		0.610	No
	Left Tilt	0.264	0.212		0.476	No
	Right Touch	0.352	0.467		0.819	No
	Right Tilt	0.314	0.391		0.705	No
Head	Left Touch	0.343		0.104	0.447	No
	Left Tilt	0.264		0.104	0.368	No
	Right Touch	0.352		0.104	0.456	No
	Right Tilt	0.314		0.104	0.418	No
Body-worn	Rear	0.509	0.264		0.773	No
	Front	0.247	0.127		0.374	No
	Edge 4	0.295	0.098		0.393	No
	Rear	0.509		0.052	0.561	No
	Front	0.247		0.052	0.299	No
	Edge 4	0.295		0.052	0.347	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 “

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

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 38	Wi-Fi DTS Band	Bluetooth		
Head	Left Touch	0.416	0.267		0.683	No
	Left Tilt	0.167	0.212		0.379	No
	Right Touch	0.204	0.467		0.671	No
	Right Tilt	0.082	0.391		0.473	No
Head	Left Touch	0.416		0.104	0.520	No
	Left Tilt	0.167		0.104	0.271	No
	Right Touch	0.204		0.104	0.308	No
	Right Tilt	0.082		0.104	0.186	No
Body-worn	Rear	0.455	0.264		0.719	No
	Front	0.307	0.127		0.434	No
	Edge 4	0.142	0.098		0.240	No
	Rear	0.455		0.052	0.507	No
	Front	0.307		0.052	0.359	No
	Edge 4	0.142		0.052	0.194	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 “

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	Wi-Fi DTS Band	Bluetooth		
Head	Left Touch	0.166	0.267		0.433	No
	Left Tilt	0.170	0.212		0.382	No
	Right Touch	0.232	0.467		0.699	No
	Right Tilt	0.129	0.391		0.520	No
Head	Left Touch	0.166		0.104	0.270	No
	Left Tilt	0.170		0.104	0.274	No
	Right Touch	0.232		0.104	0.336	No
	Right Tilt	0.129		0.104	0.233	No
Body-worn	Rear	0.521	0.264		0.785	No
	Front	0.285	0.127		0.412	No
	Edge 4	0.146	0.098		0.244	No
	Rear	0.521		0.052	0.573	No
	Front	0.285		0.052	0.337	No
	Edge 4	0.146		0.052	0.198	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 “

Sum of the SAR for GSM 850 &5.2GHz Wi-Fi &5.3GHz Wi-Fi:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		GSM 850	5.2GHz WI-Fi DTS Band	5.3GHz WI-Fi DTS Band		
Head (voice)	Left Touch	0.212	0.228		0.440	No
	Left Tilt	0.096	0.223		0.319	No
	Right Touch	0.173	0.664		0.837	No
	Right Tilt	0.093	0.612		0.705	No
Head (voice)	Left Touch	0.212		0.550	0.762	No
	Left Tilt	0.096		0.464	0.560	No
	Right Touch	0.173		0.592	0.765	No
	Right Tilt	0.093		0.614	0.707	No
Body-worn (voice)	Rear	0.521	0.228		0.749	No
		0.521		0.301	0.822	No
	Front	0.238	0.131		0.369	No
		0.238		0.096	0.334	No
Body-worn (Data)	Rear	0.934		0.301	1.235	No
		0.934	0.228		1.162	No
	Front	0.340		0.096	0.436	No
		0.340	0.131		0.471	No
Body-worn (Hotspot)	Edge 4	0.459	0.192		0.651	No
	Edge 4	0.459		0.196	0.655	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 “

Sum of the SAR for GSM 1900 &5.2GHz Wi-Fi &5.3GHz Wi-Fi:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		PCS 1900	5.2GHz WI-Fi DTS Band	5.3GHz WI-Fi DTS Band		
Head (voice)	Left Touch	0.076	0.228		0.304	No
	Left Tilt	0.020	0.223		0.243	No
	Right Touch	0.064	0.664		0.728	No
	Right Tilt	0.028	0.612		0.640	No
Head (voice)	Left Touch	0.076		0.550	0.626	No
	Left Tilt	0.020		0.464	0.484	No
	Right Touch	0.064		0.592	0.656	No
	Right Tilt	0.028		0.614	0.642	No
Body-worn (voice)	Rear	0.439	0.228		0.667	No
		0.439		0.301	0.740	No
	Front	0.112	0.131		0.243	No
		0.112		0.096	0.208	No
Body-worn (Data)	Rear	0.767		0.301	1.068	No
		0.767	0.228		0.995	No
	Front	0.146		0.096	0.242	No
		0.146	0.131		0.277	No
Body-worn (Hotspot)	Edge 4	0.038	0.192		0.230	No
	Edge 4	0.038		0.196	0.234	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 “

Sum of the SAR for WCDMA Band II &5.2GHz Wi-Fi &5.3GHz Wi-Fi:

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	5.3GHz WI-Fi DTS Band		
Head	Left Touch	0.068	0.228		0.296	No
	Left Tilt	0.046	0.223		0.269	No
	Right Touch	0.094	0.664		0.758	No
	Right Tilt	0.109	0.612		0.721	No
Head	Left Touch	0.068		0.550	0.618	No
	Left Tilt	0.046		0.464	0.510	No
	Right Touch	0.094		0.592	0.686	No
	Right Tilt	0.109		0.614	0.723	No
Body-worn	Rear	0.435	0.228		0.663	No
	Front	0.123	0.131		0.254	No
	Edge 4	0.025	0.192		0.217	No
	Rear	0.435		0.301	0.736	No
	Front	0.123		0.096	0.219	No
	Edge 4	0.025		0.196	0.221	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 “

Sum of the SAR for WCDMA Band IV &5.2GHz Wi-Fi &5.3GHz Wi-Fi:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		WCDMA Band IV	5.2GHz WI-Fi DTS Band	5.3GHz WI-Fi DTS Band		
Head	Left Touch	0.142	0.228		0.370	No
	Left Tilt	0.045	0.223		0.268	No
	Right Touch	0.127	0.664		0.791	No
	Right Tilt	0.065	0.612		0.677	No
Head	Left Touch	0.142		0.550	0.692	No
	Left Tilt	0.045		0.464	0.509	No
	Right Touch	0.127		0.592	0.719	No
	Right Tilt	0.065		0.614	0.679	No
Body-worn	Rear	0.962	0.228		1.190	No
	Front	0.181	0.131		0.312	No
	Edge 4	0.113	0.192		0.305	No
	Rear	0.962		0.301	**1.263**	No
	Front	0.181		0.096	0.277	No
	Edge 4	0.113		0.196	0.309	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 “

Sum of the SAR for WCDMA Band V &5.2GHz Wi-Fi &5.3GHz Wi-Fi:

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	5.3GHz WI-Fi DTS Band		
Head	Left Touch	0.252	0.228		0.480	No
	Left Tilt	0.090	0.223		0.313	No
	Right Touch	0.227	0.664		0.891	No
	Right Tilt	0.098	0.612		0.710	No
Head	Left Touch	0.252		0.550	0.802	No
	Left Tilt	0.090		0.464	0.554	No
	Right Touch	0.227		0.592	0.819	No
	Right Tilt	0.098		0.614	0.712	No
Body-worn	Rear	0.438	0.228		0.666	No
	Front	0.241	0.131		0.372	No
	Edge 4	0.360	0.192		0.552	No
	Rear	0.438		0.301	0.739	No
	Front	0.241		0.096	0.337	No
	Edge 4	0.360		0.196	0.556	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 “

Sum of the SAR for LTE Band 2 &5.2GHz Wi-Fi &5.3GHz Wi-Fi:

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	5.3GHz WI-Fi DTS Band		
Head	Left Touch	0.108	0.228		0.336	No
	Left Tilt	0.038	0.223		0.261	No
	Right Touch	0.180	0.664		0.844	No
	Right Tilt	0.045	0.612		0.657	No
Head	Left Touch	0.108		0.550	0.658	No
	Left Tilt	0.038		0.464	0.502	No
	Right Touch	0.180		0.592	0.772	No
	Right Tilt	0.045		0.614	0.659	No
Body-worn	Rear	0.532	0.228		0.760	No
	Front	0.083	0.131		0.214	No
	Edge 4	0.060	0.192		0.252	No
	Rear	0.532		0.301	0.833	No
	Front	0.083		0.096	0.179	No
	Edge 4	0.060		0.196	0.256	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 “

Sum of the SAR for LTE Band 4 &5.2GHz Wi-Fi &5.3GHz Wi-Fi:

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	5.3GHz WI-Fi DTS Band		
Head	Left Touch	0.306	0.228		0.534	No
	Left Tilt	0.139	0.223		0.362	No
	Right Touch	0.420	0.664		1.084	No
	Right Tilt	0.209	0.612		0.821	No
Head	Left Touch	0.306		0.550	0.856	No
	Left Tilt	0.139		0.464	0.603	No
	Right Touch	0.420		0.592	1.012	No
	Right Tilt	0.209		0.614	0.823	No
Body-worn	Rear	0.711	0.228		0.939	No
	Front	0.430	0.131		0.561	No
	Edge 4	0.089	0.192		0.281	No
	Rear	0.711		0.301	1.012	No
	Front	0.430		0.096	0.526	No
	Edge 4	0.089		0.196	0.285	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 “

Sum of the SAR for LTE Band 5 &5.2GHz Wi-Fi &5.3GHz Wi-Fi:

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	5.3GHz WI-Fi DTS Band		
Head	Left Touch	0.358	0.228		0.586	No
	Left Tilt	0.188	0.223		0.411	No
	Right Touch	0.425	0.664		1.089	No
	Right Tilt	0.194	0.612		0.806	No
Head	Left Touch	0.358		0.550	0.908	No
	Left Tilt	0.188		0.464	0.652	No
	Right Touch	0.425		0.592	1.017	No
	Right Tilt	0.194		0.614	0.808	No
Body-worn	Rear	0.474	0.228		0.702	No
	Front	0.283	0.131		0.414	No
	Edge 4	0.096	0.192		0.288	No
	Rear	0.474		0.301	0.775	No
	Front	0.283		0.096	0.379	No
	Edge 4	0.096		0.196	0.292	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 “

Sum of the SAR for LTE Band 7 &5.2GHz Wi-Fi &5.3GHz Wi-Fi:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 7	5.2GHz WI-Fi DTS Band	5.3GHz WI-Fi DTS Band		
Head	Left Touch	0.153	0.228		0.381	No
	Left Tilt	0.197	0.223		0.420	No
	Right Touch	0.282	0.664		0.946	No
	Right Tilt	0.129	0.612		0.741	No
Head	Left Touch	0.153		0.550	0.703	No
	Left Tilt	0.197		0.464	0.661	No
	Right Touch	0.282		0.592	0.874	No
	Right Tilt	0.129		0.614	0.743	No
Body-worn	Rear	0.744	0.228		0.972	No
	Front	0.298	0.131		0.429	No
	Edge 4	0.175	0.192		0.367	No
	Rear	0.744		0.301	1.045	No
	Front	0.298		0.096	0.394	No
	Edge 4	0.175		0.196	0.371	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 “

Sum of the SAR for LTE Band 17 &5.2GHz Wi-Fi &5.3GHz Wi-Fi:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 17	5.2GHz WI-Fi DTS Band	5.3GHz WI-Fi DTS Band		
Head	Left Touch	0.343	0.228		0.571	No
	Left Tilt	0.264	0.223		0.487	No
	Right Touch	0.352	0.664		1.016	No
	Right Tilt	0.314	0.612		0.926	No
Head	Left Touch	0.343		0.550	0.893	No
	Left Tilt	0.264		0.464	0.728	No
	Right Touch	0.352		0.592	0.944	No
	Right Tilt	0.314		0.614	0.928	No
Body-worn	Rear	0.509	0.228		0.737	No
	Front	0.247	0.131		0.378	No
	Edge 4	0.295	0.192		0.487	No
	Rear	0.509		0.301	0.810	No
	Front	0.247		0.096	0.343	No
	Edge 4	0.295		0.196	0.491	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 “

Sum of the SAR for LTE Band 38 &5.2GHz Wi-Fi &5.3GHz Wi-Fi:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 38	5.2GHz WI-Fi DTS Band	5.3GHz WI-Fi DTS Band		
Head	Left Touch	0.416	0.228		0.644	No
	Left Tilt	0.167	0.223		0.390	No
	Right Touch	0.204	0.664		0.868	No
	Right Tilt	0.082	0.612		0.694	No
Head	Left Touch	0.416		0.550	0.966	No
	Left Tilt	0.167		0.464	0.631	No
	Right Touch	0.204		0.592	0.796	No
	Right Tilt	0.082		0.614	0.696	No
Body-worn	Rear	0.455	0.228		0.683	No
	Front	0.307	0.131		0.438	No
	Edge 4	0.142	0.192		0.334	No
	Rear	0.455		0.301	0.756	No
	Front	0.307		0.096	0.403	No
	Edge 4	0.142		0.196	0.338	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 “

Sum of the SAR for LTE Band 41 &5.2GHz Wi-Fi &5.3GHz Wi-Fi:

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	5.3GHz WI-Fi DTS Band		
Head	Left Touch	0.166	0.228		0.394	No
	Left Tilt	0.170	0.223		0.393	No
	Right Touch	0.232	0.664		0.896	No
	Right Tilt	0.129	0.612		0.741	No
Head	Left Touch	0.166		0.550	0.716	No
	Left Tilt	0.170		0.464	0.634	No
	Right Touch	0.232		0.592	0.824	No
	Right Tilt	0.129		0.614	0.743	No
Body-worn	Rear	0.521	0.228		0.749	No
	Front	0.285	0.131		0.416	No
	Edge 4	0.146	0.192		0.338	No
	Rear	0.521		0.301	0.822	No
	Front	0.285		0.096	0.381	No
	Edge 4	0.146		0.196	0.342	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 “

Sum of the SAR for GSM 850 &5.6GHz Wi-Fi &5.8GHz Wi-Fi:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		GSM 850	5.6GHz WI-Fi DTS Band	5.8GHz WI-Fi DTS Band		
Head (voice)	Left Touch	0.212	0.124		0.336	No
	Left Tilt	0.096	0.188		0.284	No
	Right Touch	0.173	0.193		0.366	No
	Right Tilt	0.093	0.189		0.282	No
Head (voice)	Left Touch	0.212		0.195	0.407	No
	Left Tilt	0.096		0.103	0.199	No
	Right Touch	0.173		0.479	0.652	No
	Right Tilt	0.093		0.186	0.279	No
Body-worn (voice)	Rear	0.521	0.287		0.808	No
		0.521		0.192	0.713	No
	Front	0.238	0.073		0.311	No
		0.238		0.075	0.313	No
Body-worn (Data)	Rear	0.934		0.192	1.126	No
		0.934	0.287		1.221	No
	Front	0.340		0.075	0.415	No
		0.340	0.073		0.413	No
Body-worn (Hotspot)	Edge 4	0.459	0.183		0.642	No
	Edge 4	0.459		0.630	1.089	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 “

Sum of the SAR for GSM 1900 &5.6GHz Wi-Fi &5.8GHz Wi-Fi:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		PCS 1900	5.6GHz WI-Fi DTS Band	5.8GHz WI-Fi DTS Band		
Head (voice)	Left Touch	0.076	0.124		0.200	No
	Left Tilt	0.020	0.188		0.208	No
	Right Touch	0.064	0.193		0.257	No
	Right Tilt	0.028	0.189		0.217	No
Head (voice)	Left Touch	0.076		0.195	0.271	No
	Left Tilt	0.020		0.103	0.123	No
	Right Touch	0.064		0.479	0.543	No
	Right Tilt	0.028		0.186	0.214	No
Body-worn (voice)	Rear	0.439	0.287		0.726	No
		0.439		0.192	0.631	No
	Front	0.112	0.073		0.185	No
		0.112		0.075	0.187	No
Body-worn (Data)	Rear	0.767		0.192	0.959	No
		0.767	0.287		1.054	No
	Front	0.146		0.075	0.221	No
		0.146	0.073		0.219	No
Body-worn (Hotspot)	Edge 4	0.038	0.183		0.221	No
	Edge 4	0.038		0.630	0.668	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 “

Sum of the SAR for WCDMA Band II &5.6GHz Wi-Fi &5.8GHz Wi-Fi:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		WCDMA Band II	5.6GHz WI-Fi DTS Band	5.8GHz WI-Fi DTS Band		
Head	Left Touch	0.068	0.124		0.192	No
	Left Tilt	0.046	0.188		0.234	No
	Right Touch	0.094	0.193		0.287	No
	Right Tilt	0.109	0.189		0.298	No
Head	Left Touch	0.068		0.195	0.263	No
	Left Tilt	0.046		0.103	0.149	No
	Right Touch	0.094		0.479	0.573	No
	Right Tilt	0.109		0.186	0.295	No
Body-worn	Rear	0.435	0.287		0.722	No
	Front	0.123	0.073		0.196	No
	Edge 4	0.025	0.183		0.208	No
	Rear	0.435		0.192	0.627	No
	Front	0.123		0.075	0.198	No
	Edge 4	0.025		0.630	0.655	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 “

Sum of the SAR for WCDMA Band IV &5.6GHz Wi-Fi &5.8GHz Wi-Fi:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		WCDMA Band IV	5.6GHz WI-Fi DTS Band	5.8GHz WI-Fi DTS Band		
Head	Left Touch	0.142	0.124		0.266	No
	Left Tilt	0.045	0.188		0.233	No
	Right Touch	0.127	0.193		0.320	No
	Right Tilt	0.065	0.189		0.254	No
Head	Left Touch	0.142		0.195	0.337	No
	Left Tilt	0.045		0.103	0.148	No
	Right Touch	0.127		0.479	0.606	No
	Right Tilt	0.065		0.186	0.251	No
Body-worn	Rear	0.962	0.287		1.249	No
	Front	0.181	0.073		0.254	No
	Edge 4	0.113	0.183		0.296	No
	Rear	0.962		0.192	1.154	No
	Front	0.181		0.075	0.256	No
	Edge 4	0.113		0.630	0.743	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 “

Sum of the SAR for WCDMA Band V &5.6GHz Wi-Fi &5.8GHz Wi-Fi:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		WCDMA Band V	5.6GHz WI-Fi DTS Band	5.8GHz WI-Fi DTS Band		
Head	Left Touch	0.252	0.124		0.376	No
	Left Tilt	0.090	0.188		0.278	No
	Right Touch	0.227	0.193		0.420	No
	Right Tilt	0.098	0.189		0.287	No
Head	Left Touch	0.252		0.195	0.447	No
	Left Tilt	0.090		0.103	0.193	No
	Right Touch	0.227		0.479	0.706	No
	Right Tilt	0.098		0.186	0.284	No
Body-worn	Rear	0.438	0.287		0.725	No
	Front	0.241	0.073		0.314	No
	Edge 4	0.360	0.183		0.543	No
	Rear	0.438		0.192	0.630	No
	Front	0.241		0.075	0.316	No
	Edge 4	0.360		0.630	0.990	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 “

Sum of the SAR for LTE Band 2 &5.6GHz Wi-Fi &5.8GHz Wi-Fi:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 2	5.6GHz WI-Fi DTS Band	5.8GHz WI-Fi DTS Band		
Head	Left Touch	0.108	0.124		0.232	No
	Left Tilt	0.038	0.188		0.226	No
	Right Touch	0.180	0.193		0.373	No
	Right Tilt	0.045	0.189		0.234	No
Head	Left Touch	0.108		0.195	0.303	No
	Left Tilt	0.038		0.103	0.141	No
	Right Touch	0.180		0.479	0.659	No
	Right Tilt	0.045		0.186	0.231	No
Body-worn	Rear	0.532	0.287		0.819	No
	Front	0.083	0.073		0.156	No
	Edge 4	0.060	0.183		0.243	No
	Rear	0.532		0.192	0.724	No
	Front	0.083		0.075	0.158	No
	Edge 4	0.060		0.630	0.690	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 “

Sum of the SAR for LTE Band 4 &5.6GHz Wi-Fi &5.8GHz Wi-Fi:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 4	5.6GHz WI-Fi DTS Band	5.8GHz WI-Fi DTS Band		
Head	Left Touch	0.306	0.124		0.430	No
	Left Tilt	0.139	0.188		0.327	No
	Right Touch	0.420	0.193		0.613	No
	Right Tilt	0.209	0.189		0.398	No
Head	Left Touch	0.306		0.195	0.501	No
	Left Tilt	0.139		0.103	0.242	No
	Right Touch	0.420		0.479	0.899	No
	Right Tilt	0.209		0.186	0.395	No
Body-worn	Rear	0.711	0.287		0.998	No
	Front	0.430	0.073		0.503	No
	Edge 4	0.089	0.183		0.272	No
	Rear	0.711		0.192	0.903	No
	Front	0.430		0.075	0.505	No
	Edge 4	0.089		0.630	0.719	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 “

Sum of the SAR for LTE Band 5 &5.6GHz Wi-Fi &5.8GHz Wi-Fi:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 5	5.6GHz WI-Fi DTS Band	5.8GHz WI-Fi DTS Band		
Head	Left Touch	0.358	0.124		0.482	No
	Left Tilt	0.188	0.188		0.376	No
	Right Touch	0.425	0.193		0.618	No
	Right Tilt	0.194	0.189		0.383	No
Head	Left Touch	0.358		0.195	0.553	No
	Left Tilt	0.188		0.103	0.291	No
	Right Touch	0.425		0.479	0.904	No
	Right Tilt	0.194		0.186	0.380	No
Body-worn	Rear	0.474	0.287		0.761	No
	Front	0.283	0.073		0.356	No
	Edge 4	0.096	0.183		0.279	No
	Rear	0.474		0.192	0.666	No
	Front	0.283		0.075	0.358	No
	Edge 4	0.096		0.630	0.726	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 “

Sum of the SAR for LTE Band 7 &5.6GHz Wi-Fi &5.8GHz Wi-Fi:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 7	5.6GHz WI-Fi DTS Band	5.8GHz WI-Fi DTS Band		
Head	Left Touch	0.153	0.124		0.277	No
	Left Tilt	0.197	0.188		0.385	No
	Right Touch	0.282	0.193		0.475	No
	Right Tilt	0.129	0.189		0.318	No
Head	Left Touch	0.153		0.195	0.348	No
	Left Tilt	0.197		0.103	0.300	No
	Right Touch	0.282		0.479	0.761	No
	Right Tilt	0.129		0.186	0.315	No
Body-worn	Rear	0.744	0.287		1.031	No
	Front	0.298	0.073		0.371	No
	Edge 4	0.175	0.183		0.358	No
	Rear	0.744		0.192	0.936	No
	Front	0.298		0.075	0.373	No
	Edge 4	0.175		0.630	0.805	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 “

Sum of the SAR for LTE Band 17 &5.6GHz Wi-Fi &5.8GHz Wi-Fi:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 17	5.6GHz WI-Fi DTS Band	5.8GHz WI-Fi DTS Band		
Head	Left Touch	0.343	0.124		0.467	No
	Left Tilt	0.264	0.188		0.452	No
	Right Touch	0.352	0.193		0.545	No
	Right Tilt	0.314	0.189		0.503	No
Head	Left Touch	0.343		0.195	0.538	No
	Left Tilt	0.264		0.103	0.367	No
	Right Touch	0.352		0.479	0.831	No
	Right Tilt	0.314		0.186	0.500	No
Body-worn	Rear	0.509	0.287		0.796	No
	Front	0.247	0.073		0.320	No
	Edge 4	0.295	0.183		0.478	No
	Rear	0.509		0.192	0.701	No
	Front	0.247		0.075	0.322	No
	Edge 4	0.295		0.630	0.925	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 “

Sum of the SAR for LTE Band 38 &5.6GHz Wi-Fi &5.8GHz Wi-Fi:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 38	5.6GHz WI-Fi DTS Band	5.8GHz WI-Fi DTS Band		
Head	Left Touch	0.416	0.124		0.540	No
	Left Tilt	0.167	0.188		0.355	No
	Right Touch	0.204	0.193		0.397	No
	Right Tilt	0.082	0.189		0.271	No
Head	Left Touch	0.416		0.195	0.611	No
	Left Tilt	0.167		0.103	0.270	No
	Right Touch	0.204		0.479	0.683	No
	Right Tilt	0.082		0.186	0.268	No
Body-worn	Rear	0.455	0.287		0.742	No
	Front	0.307	0.073		0.380	No
	Edge 4	0.142	0.183		0.325	No
	Rear	0.455		0.192	0.647	No
	Front	0.307		0.075	0.382	No
	Edge 4	0.142		0.630	0.772	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 “

Sum of the SAR for LTE Band 41 &5.6GHz Wi-Fi &5.8GHz Wi-Fi:

RF Exposure Conditions	Test Position	Simultaneous Transmission Scenario			Σ1-g SAR (W/kg)	SPLSR (Yes/No)
		LTE Band 41	5.6GHz WI-Fi DTS Band	5.8GHz WI-Fi DTS Band		
Head	Left Touch	0.166	0.124		0.290	No
	Left Tilt	0.170	0.188		0.358	No
	Right Touch	0.232	0.193		0.425	No
	Right Tilt	0.129	0.189		0.318	No
Head	Left Touch	0.166		0.195	0.361	No
	Left Tilt	0.170		0.103	0.273	No
	Right Touch	0.232		0.479	0.711	No
	Right Tilt	0.129		0.186	0.315	No
Body-worn	Rear	0.521	0.287		0.808	No
	Front	0.285	0.073		0.358	No
	Edge 4	0.146	0.183		0.329	No
	Rear	0.521		0.192	0.713	No
	Front	0.285		0.075	0.360	No
	Edge 4	0.146		0.630	0.776	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 “

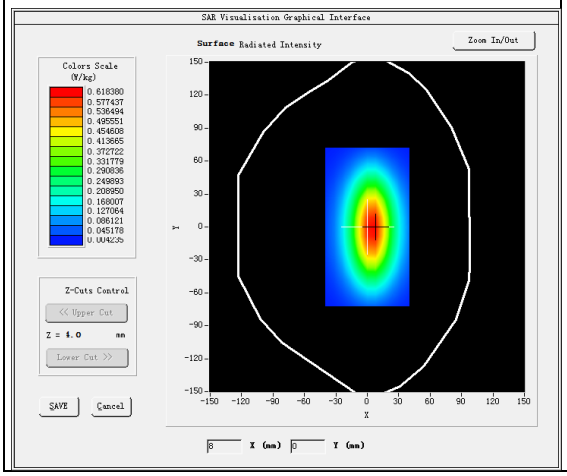
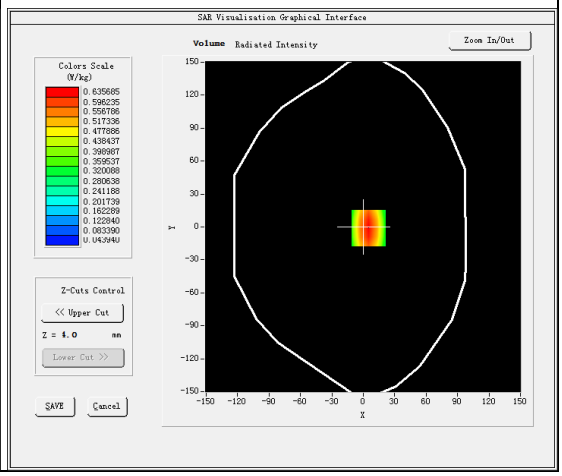
APPENDIX A. SAR SYSTEM CHECK DATA

Test Laboratory: AGC Lab **Date: Aug. 27,2022**
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=1.39
Frequency: 750 MHz; Medium parameters used: f = 750 MHz; σ=0.91 mho/m; εr =42.64; ρ= 1000 kg/m³ ;
Phantom section: Flat Section; Input Power=18dBm
Ambient temperature (℃):21.9, Liquid temperature (℃): 21.6

SATIMO Configuration:

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

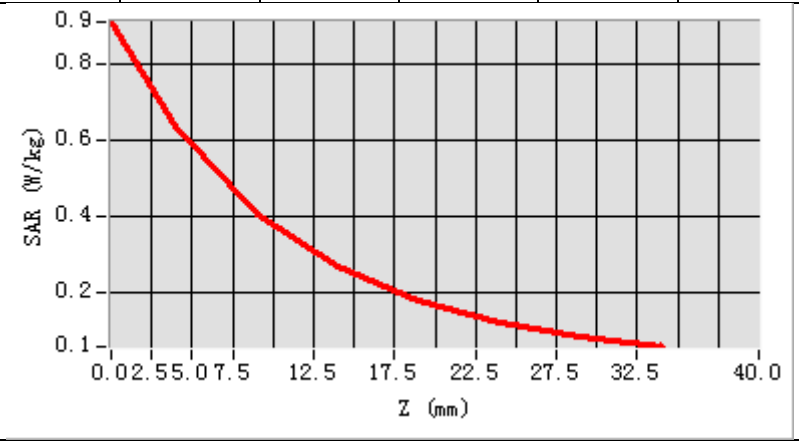
Configuration/System Check 750MHz Head/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/System Check 750MHz Head/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm

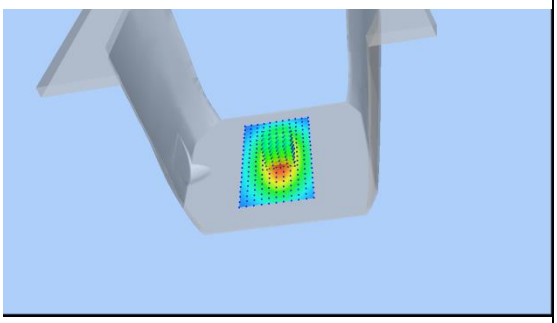
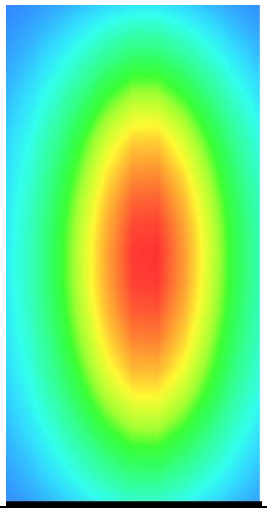
SURFACE SAR	VOLUME SAR
	

Maximum location: X=5.00, Y=-1.00
SAR Peak: 0.90 W/kg

SAR 10g (W/Kg)	0.352532
SAR 1g (W/Kg)	0.570126

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.9082	0.6360	0.4032	0.2736	0.1816	0.1266	0.0823



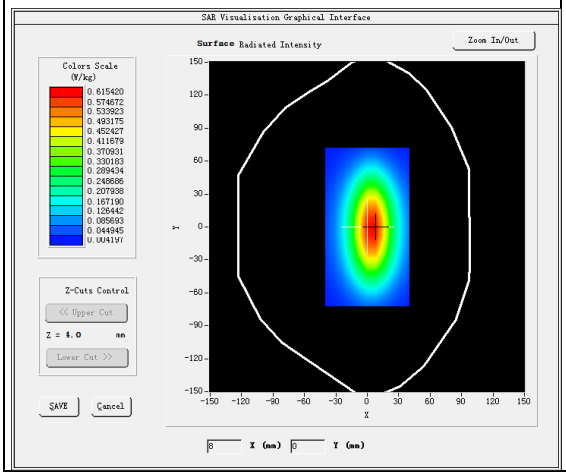
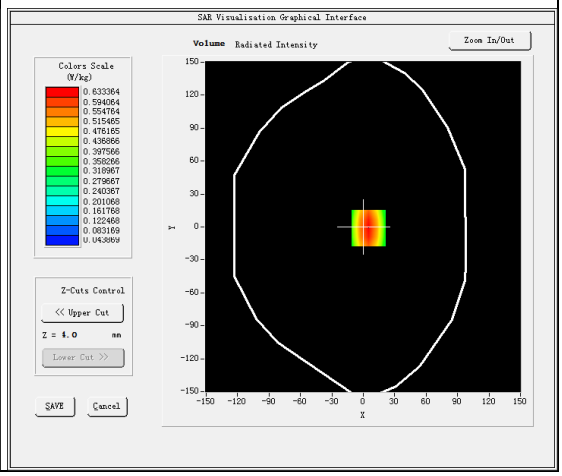
3D screen shot	Hot spot position
	

Test Laboratory: AGC Lab **Date: Aug. 22,2022**
System Check Head 835 MHz
DUT: Dipole 835 MHz Type: SID 835
Communication System CW; Communication System Band: D835 (835.0 MHz); Duty Cycle: 1:1; Conv.F=1.42
Frequency: 835 MHz; Medium parameters used: f = 835 MHz; σ=0.91 mho/m; εr =41.62; ρ= 1000 kg/m³ ;
Phantom section: Flat Section; Input Power=18dBm
Ambient temperature (℃):22.2, Liquid temperature (℃): 22.0

SATIMO Configuration:

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

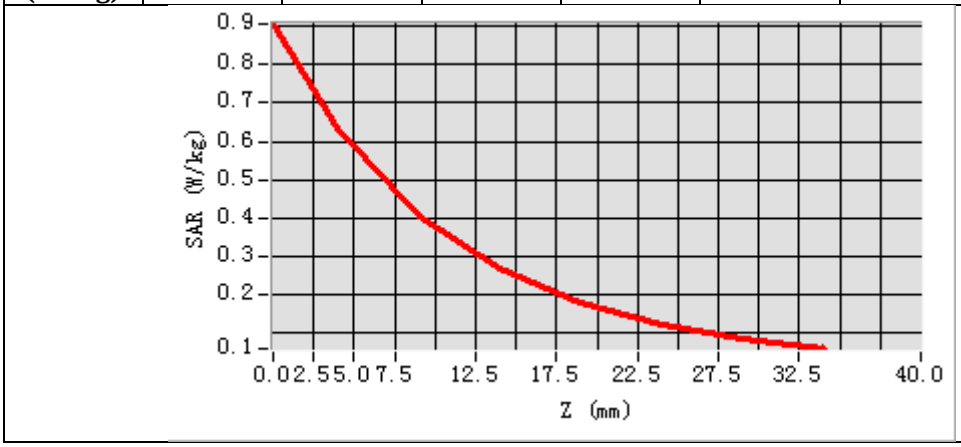
Configuration/System Check 835MHz Head/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/System Check 835MHz Head/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm

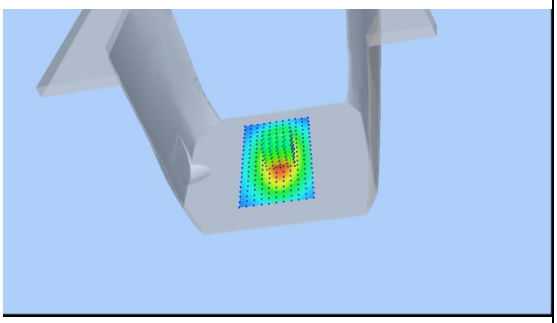
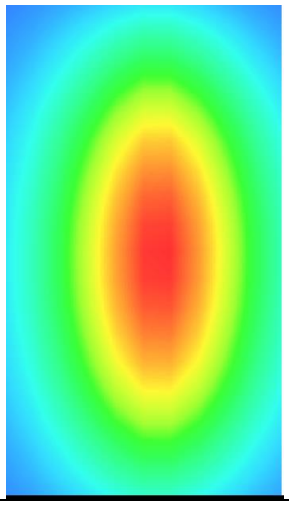
SURFACE SAR	VOLUME SAR
	

Maximum location: X=5.00, Y=-1.00
SAR Peak: 0.90 W/kg

SAR 10g (W/Kg)	0.371235
SAR 1g (W/Kg)	0.604253

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.9053	0.6332	0.4031	0.2662	0.1816	0.1286	0.0822



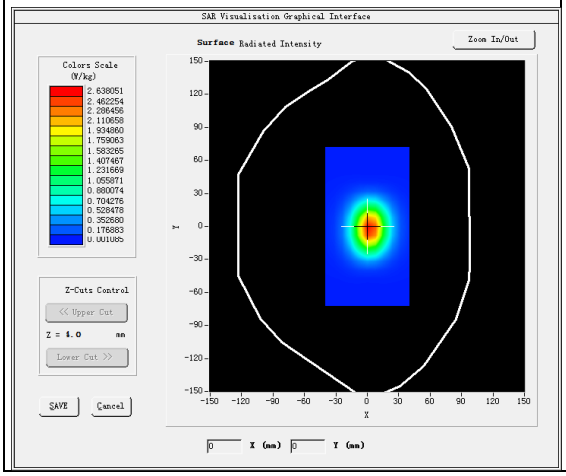
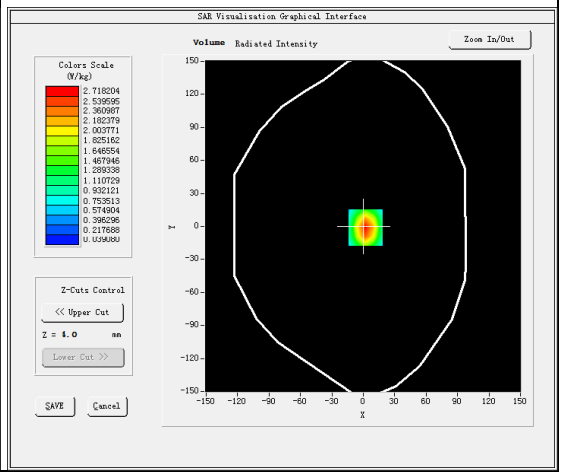
3D screen shot	Hot spot position
	

Test Laboratory: AGC Lab **Date: Aug. 25,2022**
System Check Head 1750MHz
DUT: Dipole 1800 MHz; Type: SID 1800
Communication System: CW; Communication System Band: D1700 (1750.0 MHz); Duty Cycle:1:1; Conv.F=1.73
Frequency: 1750 MHz; Medium parameters used: f = 1750MHz; σ=1.41 mho/m; εr =39.79; ρ= 1000 kg/m³ ;
Phantom section: Flat Section; Input Power=18dBm
Ambient temperature (℃): 21.6, Liquid temperature (℃): 21.3

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

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

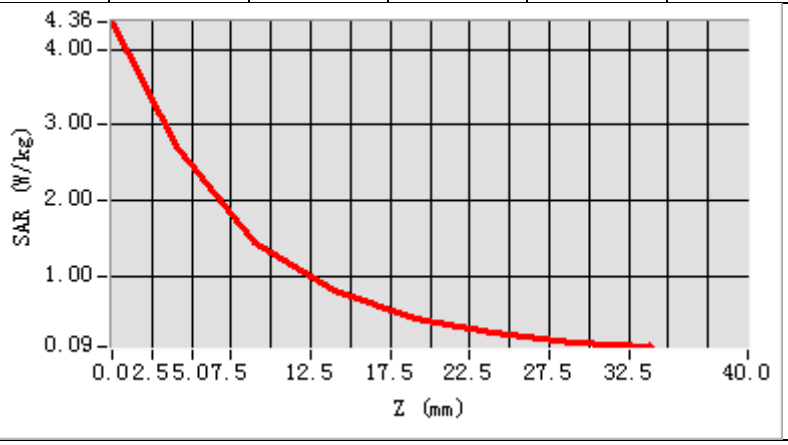
Configuration/System Check 1750MHz Head/Area Scan: Measurement grid: dx=8mm,dy=8mm
Configuration/System Check 1750MHz Head/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm

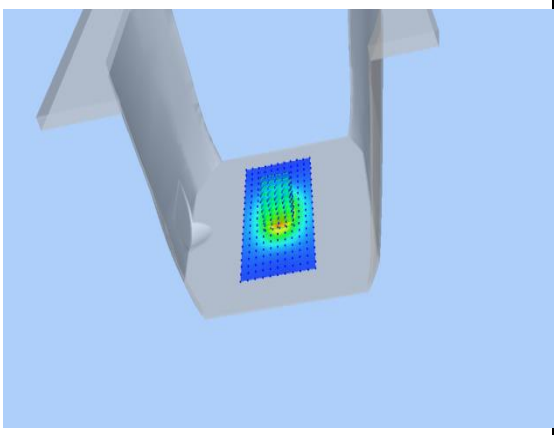
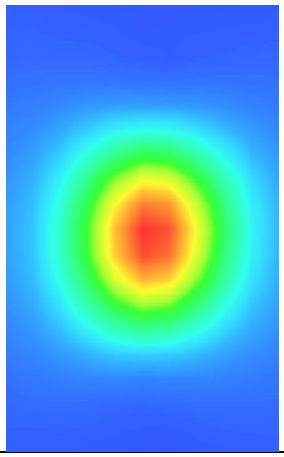
SURFACE SAR	VOLUME SAR
	

Maximum location: X=2.00, Y=-1.00
SAR Peak: 4.34 W/kg

SAR 10g (W/Kg)	1.298242
SAR 1g (W/Kg)	2.549651

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	4.3586	2.7186	1.4642	0.8158	0.4599	0.2632	0.1526



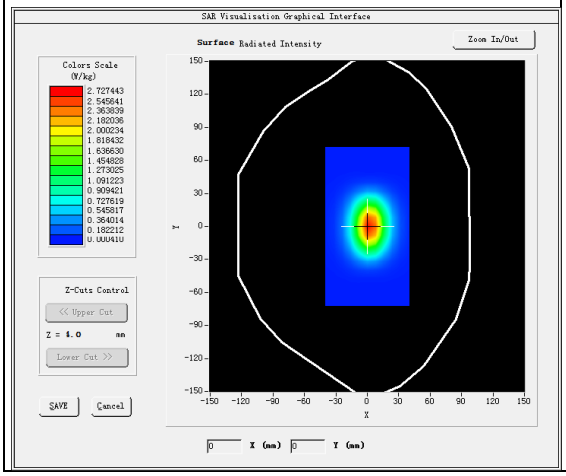
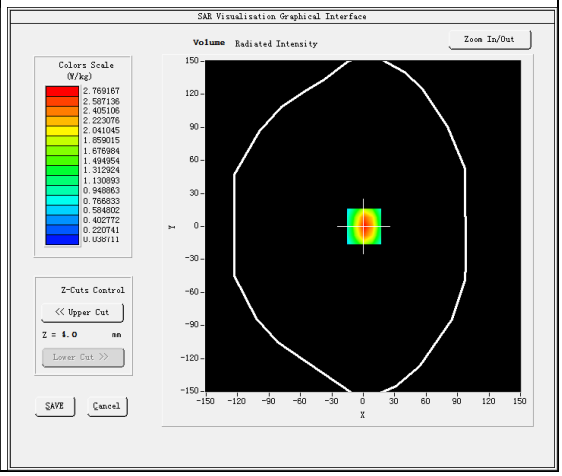
3D screen shot	Hot spot position
	

Test Laboratory: AGC Lab **Date: Aug. 23,2022**
System Check Head 1900MHz
DUT: Dipole 1900 MHz; Type: SID 1900
Communication System: CW; Communication System Band: D1900 (1900.0 MHz); Duty Cycle:1:1; Conv.F=1.77
Frequency: 1900 MHz; Medium parameters used: f = 1900 MHz; σ=1.36 mho/m; εr =40.29; ρ= 1000 kg/m³ ;
Phantom section: Flat Section; Input Power=18dBm
Ambient temperature (℃):21.6, Liquid temperature (℃): 21.4

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

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

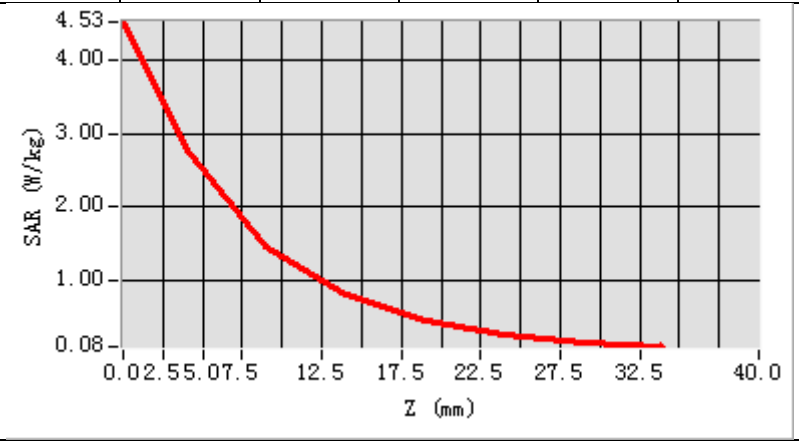
Configuration/System Check 1900MHz Head/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/System Check 1900MHz Head/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm

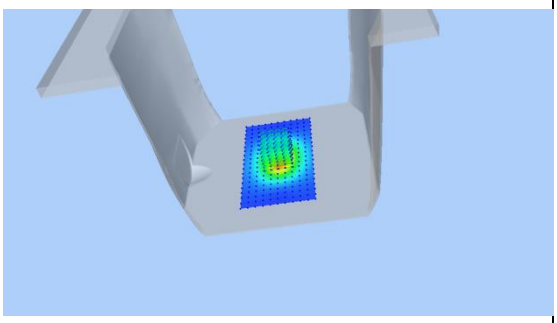
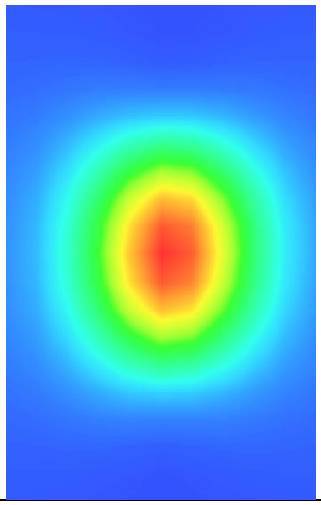
SURFACE SAR	VOLUME SAR
	

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

SAR 10g (W/Kg)	1.325623
SAR 1g (W/Kg)	2.626523

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	4.5318	2.7699	1.4479	0.7923	0.4422	0.2496	0.1437



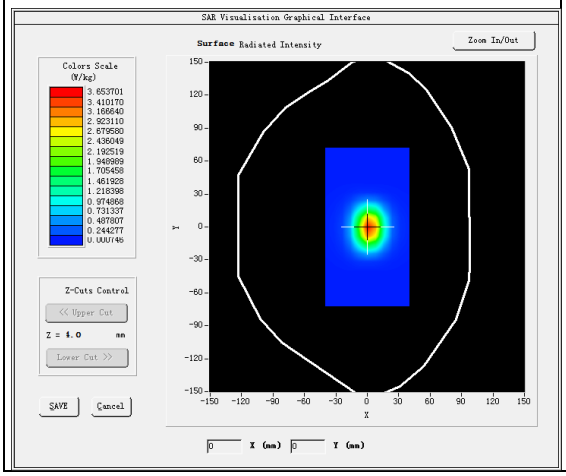
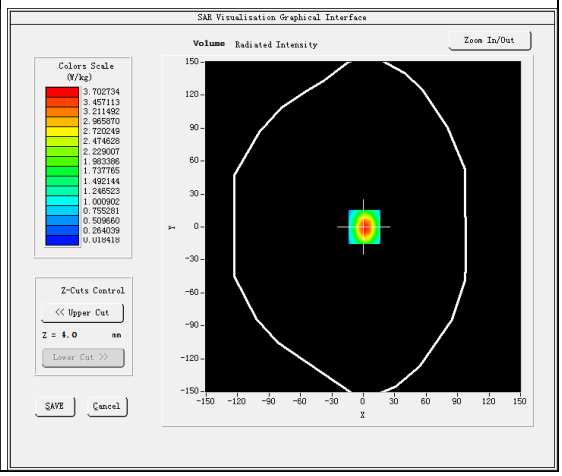
3D screen shot	Hot spot position
	

Test Laboratory: AGC Lab **Date: Aug. 28,2022**
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=1.99
Frequency: 2450 MHz; Medium parameters used: f = 2450 MHz; σ=1.76 mho/m; εr =38.77; ρ= 1000 kg/m³ ;
Phantom section: Flat Section; Input Power=18dBm
Ambient temperature (℃):21.5, Liquid temperature (℃): 21.2

SATIMO Configuration

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

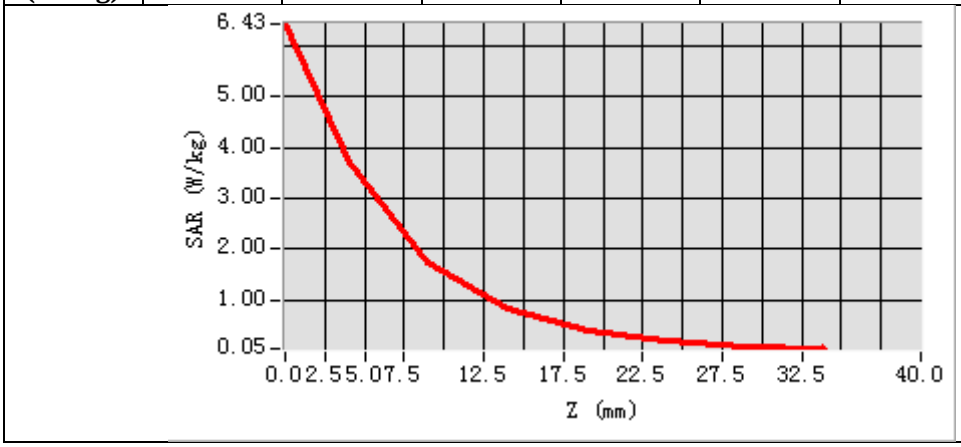
Configuration/System Check 2450MHz Head/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/System Check 2450MHz Head/Zoom Scan: Measurement grid: dx=5mm,dy=5mm, dz=5mm

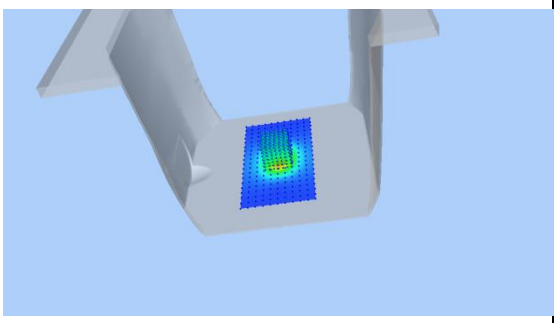
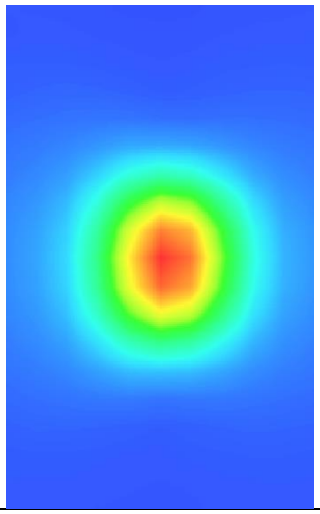
SURFACE SAR	VOLUME SAR
	

Maximum location: X=1.00, Y=0.00
SAR Peak: 6.40 W/kg

SAR 10g (W/Kg)	1.532310
SAR 1g (W/Kg)	3.420236

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	6.4266	3.7022	1.7351	0.8385	0.4068	0.2019	0.0989



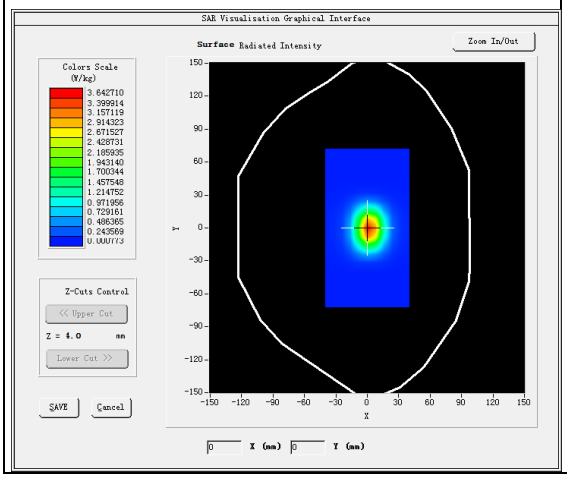
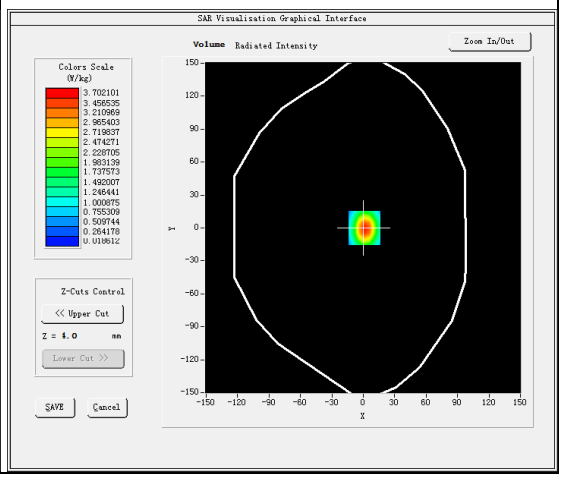
3D screen shot	Hot spot position
	

Test Laboratory: AGC Lab **Date: Aug. 26,2022**
System Check Head 2600MHz
DUT: Dipole 2600 MHz; Type: SID 2600
Communication System: CW; Communication System Band: D2600 (2600.0 MHz); Duty Cycle: 1:1; Conv.F=1.82
Frequency:2600 MHz; Medium parameters used: f = 2600 MHz; σ=1.89 mho/m; εr =38.68; ρ= 1000 kg/m³ ;
Phantom section: Flat Section; Input Power=18dBm
Ambient temperature (℃): 22.4, Liquid temperature (℃): 22.2

SATIMO Configuration:

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

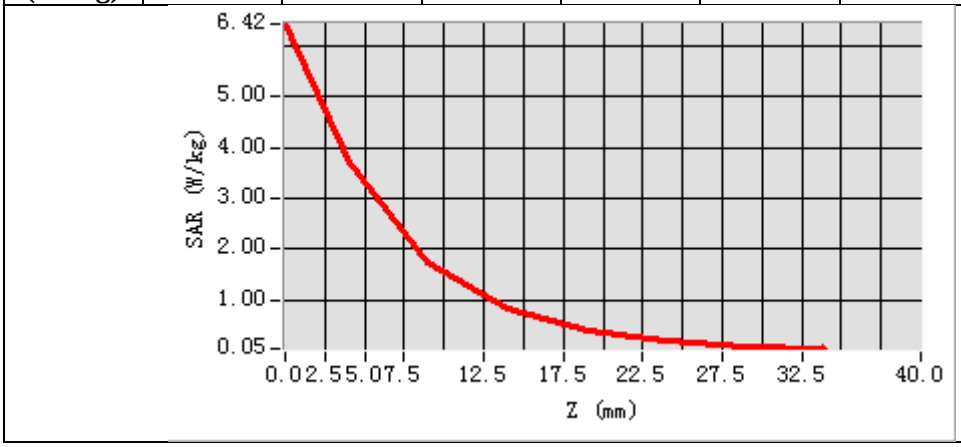
Configuration/System Check 2600 Head/Area Scan: Measurement grid: dx=8mm,dy=8mm
Configuration/System Check 2600 Head/Zoom Scan: Measurement grid: dx=5mm,dy=5mm, dz=5mm

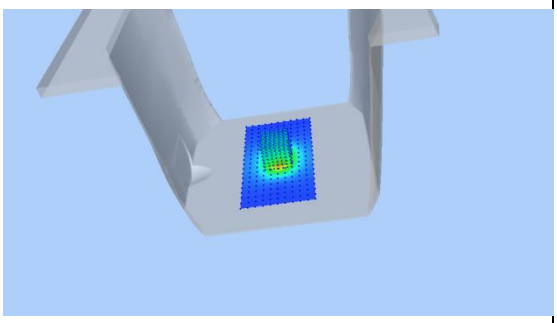
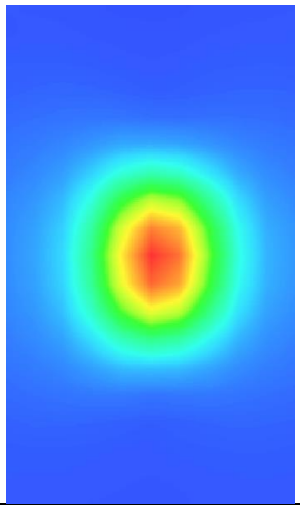
SURFACE SAR	VOLUME SAR
	

Maximum location: X=1.00, Y=0.00
SAR Peak: 6.40 W/kg

SAR 10g (W/Kg)	1.535613
SAR 1g (W/Kg)	3.426886

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	6.4242	3.7039	1.7359	0.8333	0.4076	0.2051	0.0965

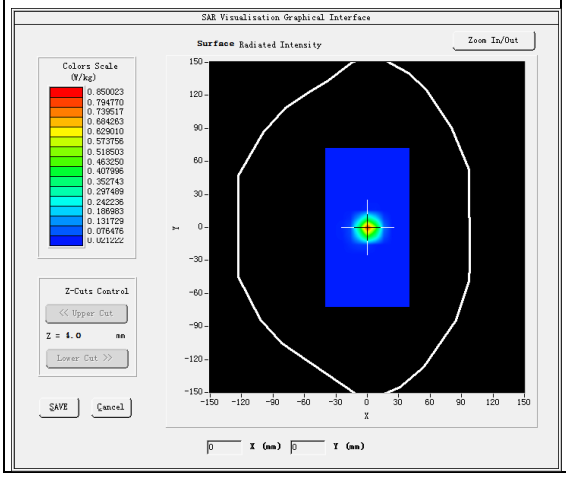
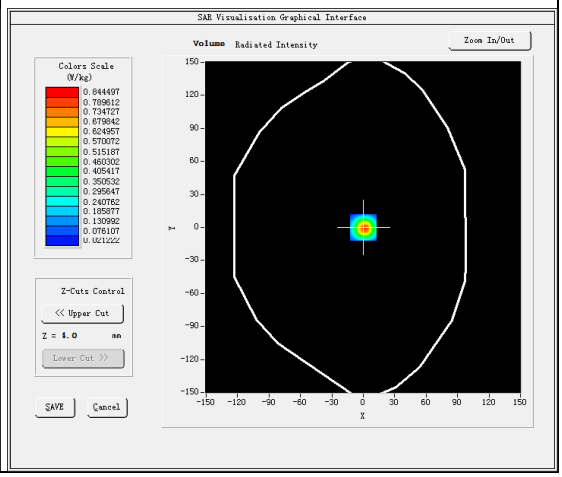


3D screen shot	Hot spot position
	

Test Laboratory: AGC Lab **Date: Aug. 13,2022**
System Check 5200 MHz
DUT: Dipole 5000MHz Type: SWG5500
Communication System: CW; Communication System Band: D5000 (5000.0 MHz); Duty Cycle: 1:1; Conv.F=1.28
Frequency: 5200 MHz; Medium parameters used: f = 5200 MHz; σ =4.62 mho/m; εr =35.26; ρ= 1000 kg/m^3 ;
Phantom section: Flat Section; Input Power=10dBm
Ambient temperature (℃): 21.4, Liquid temperature (℃): 21.2

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

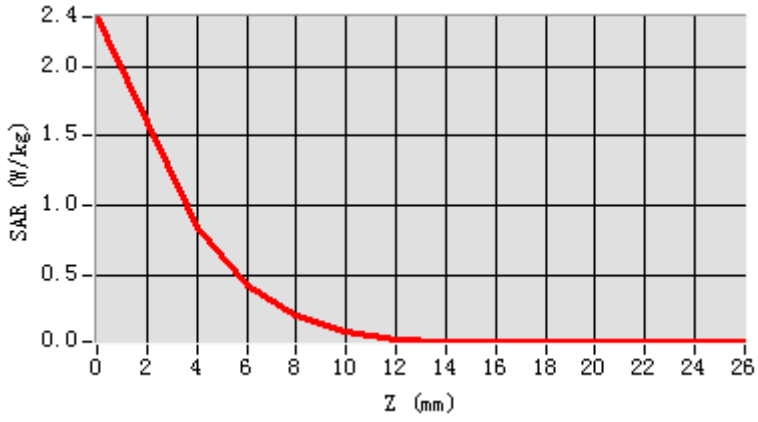
Configuration/System Check 5200 MHz Body/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/System Check 5200 MHz Body/Zoom Scan: Measurement grid: dx=4mm,dy=4mm, dz=2mm

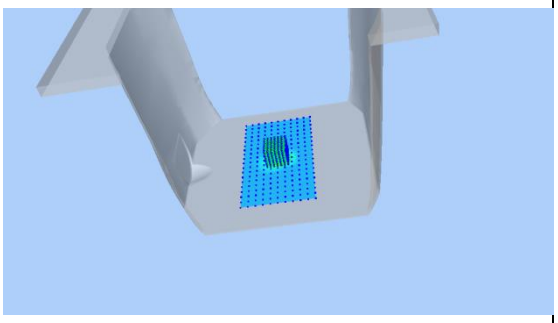
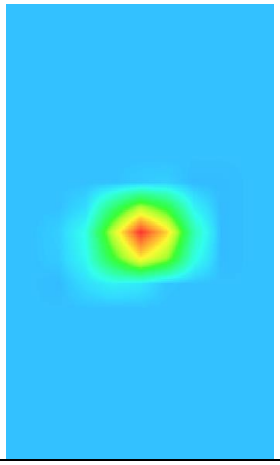
SURFACE SAR	VOLUME SAR
	

Maximum location: X=0.00, Y=0.00
SAR Peak: 2.34 W/kg

SAR 10g (W/Kg)	0.222995
SAR 1g (W/Kg)	0.777030

Z (mm)	0.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00	24.00
SAR (W/Kg)	2.3552	0.8445	0.4213	0.2018	0.0939	0.0336	0.0216	0.0213	0.0234	0.0234	0.0234	0.0234

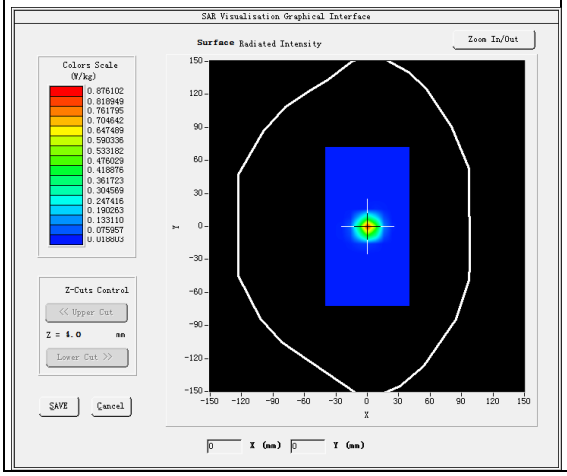
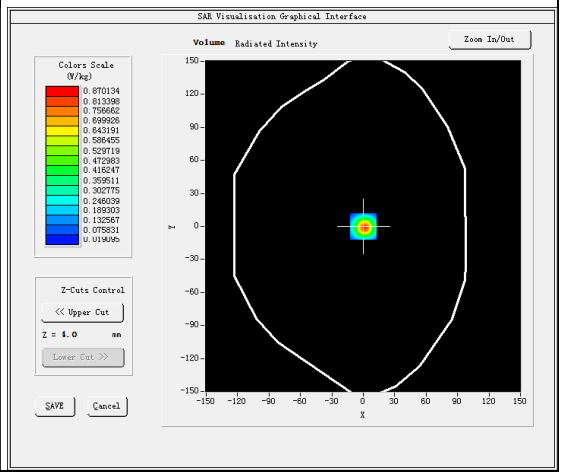


3D screen shot	Hot spot position
	

Test Laboratory: AGC Lab **Date: Aug. 14,2022**
System Check 5200 MHz
DUT: Dipole 5000MHz Type: SWG5500
Communication System: CW; Communication System Band: D5000 (5000.0 MHz); Duty Cycle: 1:1; Conv.F=1.49
Frequency: 5200 MHz; Medium parameters used: f = 5200 MHz; σ =4.79 mho/m; εr =35.26; ρ= 1000 kg/m^3 ;
Phantom section: Flat Section; Input Power=18dBm
Ambient temperature (℃): 22.8, Liquid temperature (℃): 22.5

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

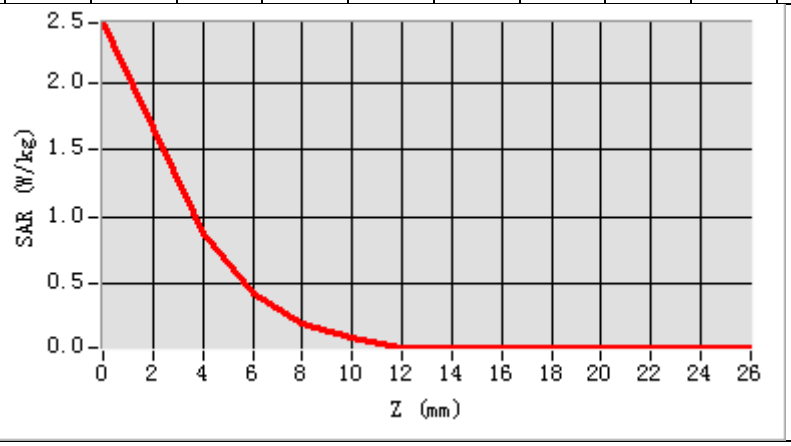
Configuration/System Check 5200 MHz Body/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/System Check 5200 MHz Body/Zoom Scan: Measurement grid: dx=4mm,dy=4mm, dz=2mm

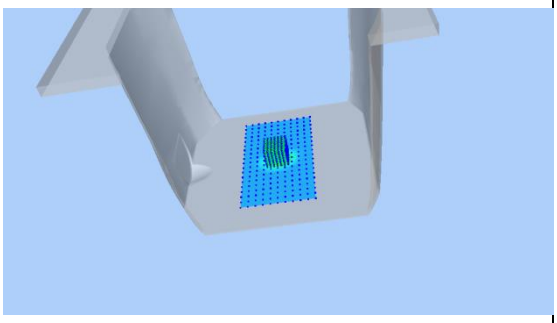
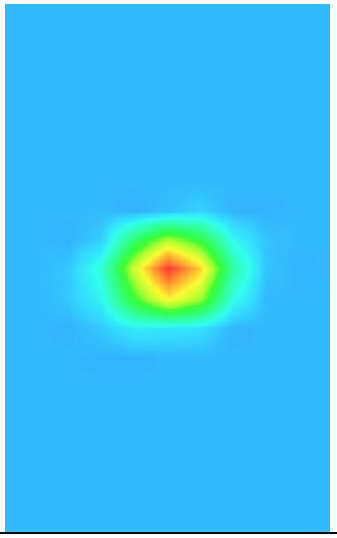
SURFACE SAR	VOLUME SAR
	

Maximum location: X=0.00, Y=0.00
SAR Peak: 2.43 W/kg

SAR 10g (W/Kg)	0.229534
SAR 1g (W/Kg)	0.803331

Z (mm)	0.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00	24.00
SAR (W/Kg)	2.4501	0.8701	0.4274	0.2046	0.0913	0.0262	0.0210	0.0210	0.0210	0.0210	0.0210	0.0210

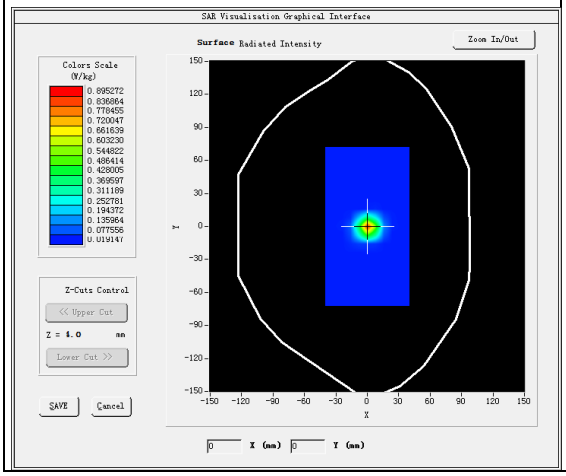
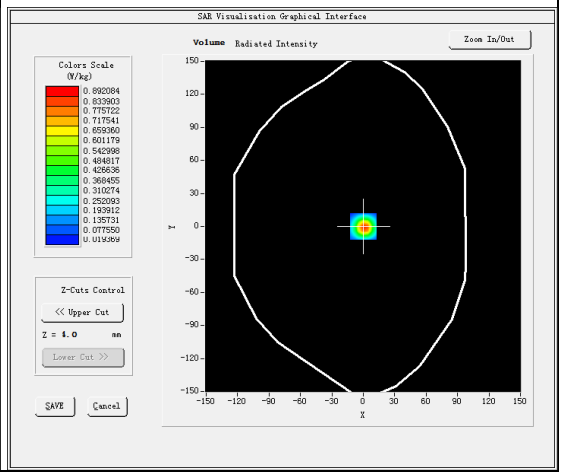


3D screen shot	Hot spot position
	

Test Laboratory: AGC Lab **Date: Aug. 15,2022**
System Check 5600 MHz
DUT: Dipole 5000MHz Type: SWG5500
Communication System: CW; Communication System Band: D5000 (5000.0 MHz); Duty Cycle: 1:1; Conv.F=1.52
Frequency: 5600 MHz; Medium parameters used: f = 5600 MHz; σ =4.96 mho/m; εr =35.22; ρ= 1000 kg/m^3 ;
Phantom section: Flat Section; Input Power=18dBm
Ambient temperature (℃): 21.3, Liquid temperature (℃): 21.1

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

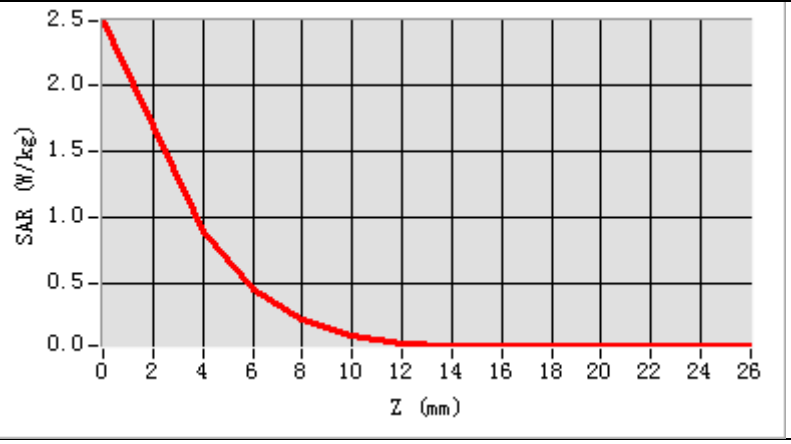
Configuration/System Check 5600 MHz Body/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/System Check 5600 MHz Body/Zoom Scan: Measurement grid: dx=4mm,dy=4mm, dz=2mm

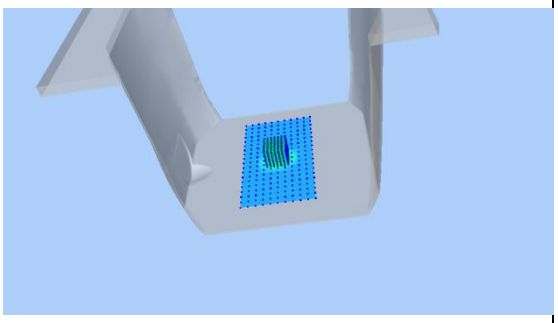
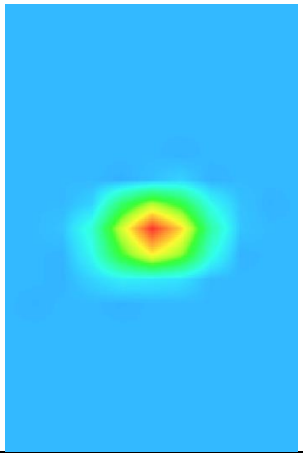
SURFACE SAR	VOLUME SAR
	

Maximum location: X=0.00, Y=0.00
SAR Peak: 2.48 W/kg

SAR 10g (W/Kg)	0.234286
SAR 1g (W/Kg)	0.822002

Z (mm)	0.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00	24.00
SAR (W/Kg)	2.4930	0.8921	0.4470	0.2116	0.0967	0.0347	0.0249	0.0195	0.0215	0.0215	0.0215	0.0215



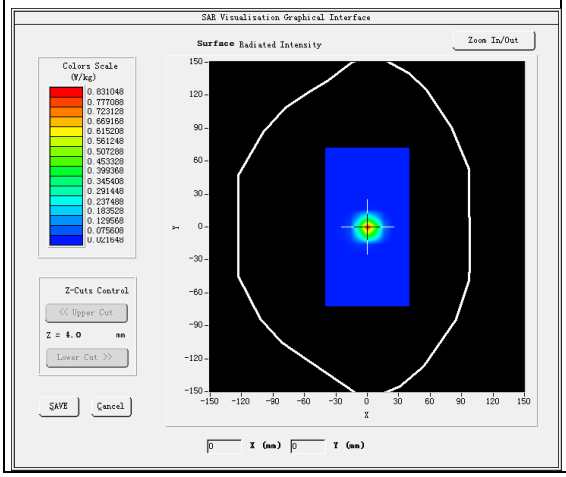
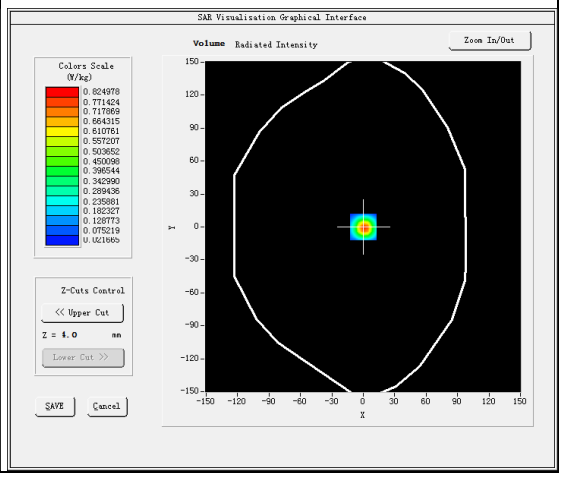
3D screen shot	Hot spot position
	

Test Laboratory: AGC Lab **Date: Aug. 16,2022**
System Check Head 5800 MHz
DUT: Dipole 5000MHz Type: SWG5500
Communication System: CW; Communication System Band: D5000 (5000.0 MHz); Duty Cycle: 1:1; Conv.F=1.42
Frequency: 5800 MHz; Medium parameters used: f = 5800 MHz; σ =5.26 mho/m; εr =36.25; ρ= 1000 kg/m^3 ;
Phantom section: Flat Section; Input Power=18dBm
Ambient temperature (℃): 22.4, Liquid temperature (℃): 22.1

SATIMO Configuration:

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

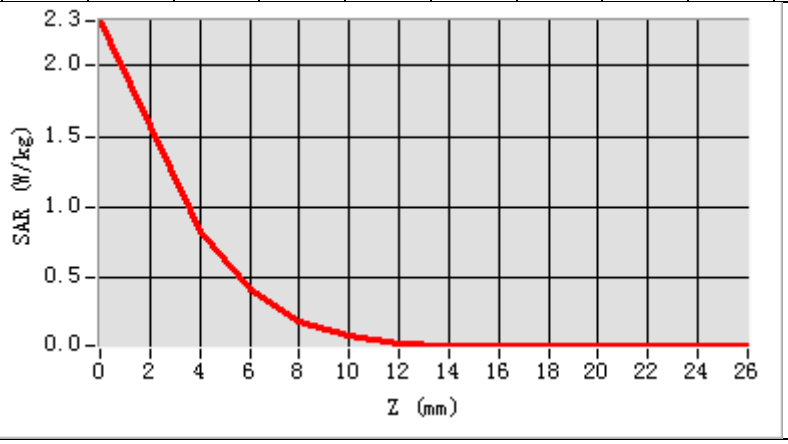
Configuration/System Check 5800 MHz Head/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/System Check 5800 MHz Head/Zoom Scan: Measurement grid: dx=4mm,dy=4mm, dz=2mm

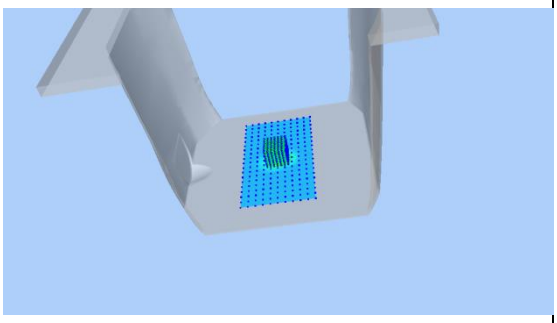
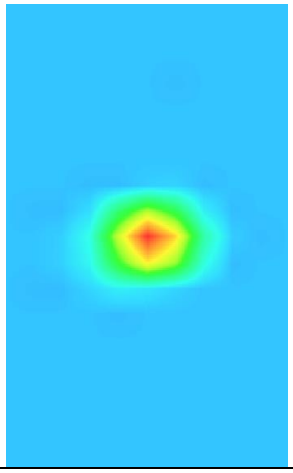
SURFACE SAR	VOLUME SAR
	

Maximum location: X=0.00, Y=0.00
SAR Peak: 2.29 W/kg

SAR 10g (W/Kg)	0.219426
SAR 1g (W/Kg)	0.763339

Z (mm)	0.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00	24.00
SAR (W/Kg)	2.3146	0.8250	0.4147	0.1944	0.0859	0.0365	0.0221	0.0217	0.0239	0.0239	0.0239	0.0239



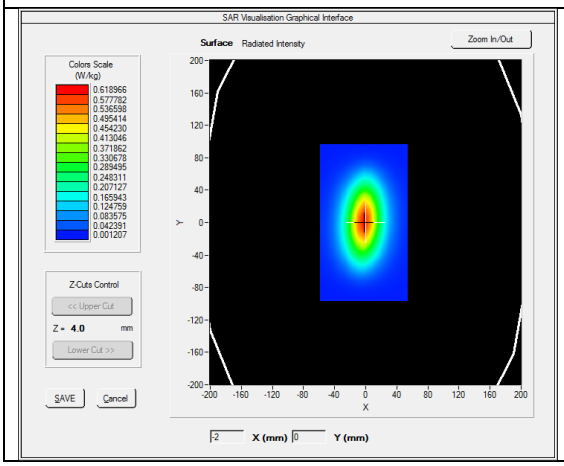
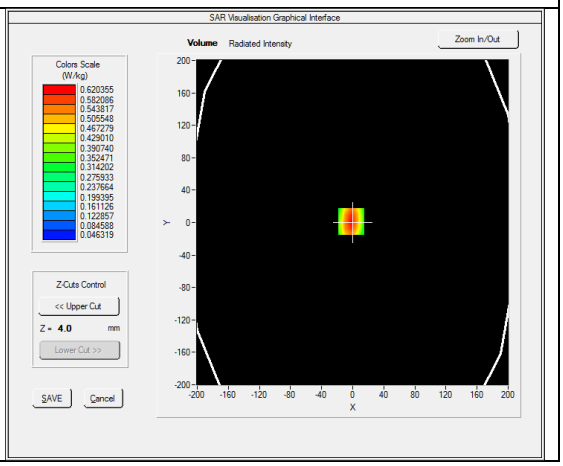
3D screen shot	Hot spot position
	

Test Laboratory: AGC Lab **Date: Aug. 27,2022**
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=1.39
Frequency: 750 MHz; Medium parameters used: f = 750 MHz; σ=0.91 mho/m; εr =42.64; ρ= 1000 kg/m³ ;
Phantom section: Flat Section; Input Power=18dBm
Ambient temperature (℃):21.9, Liquid temperature (℃): 21.6

SATIMO Configuration:

- Probe: SSE2; Calibrated: Apr. 13, 2022; Serial No.: SN 13/22 EPGO368
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V4_02_35

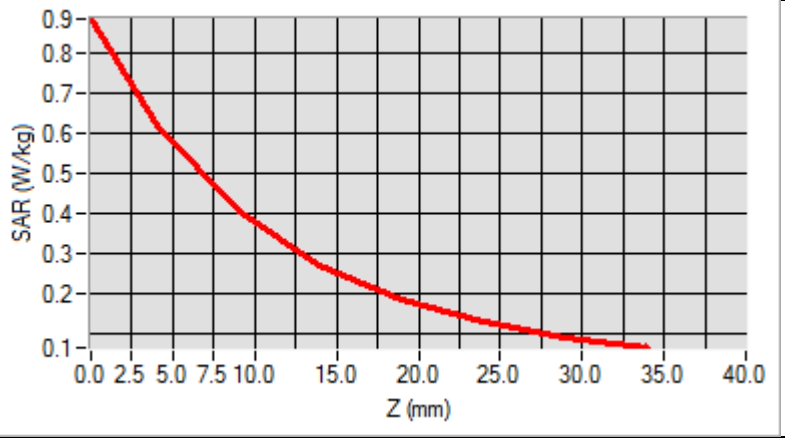
Configuration/System Check 750MHz Head/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/System Check 750MHz Head/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm

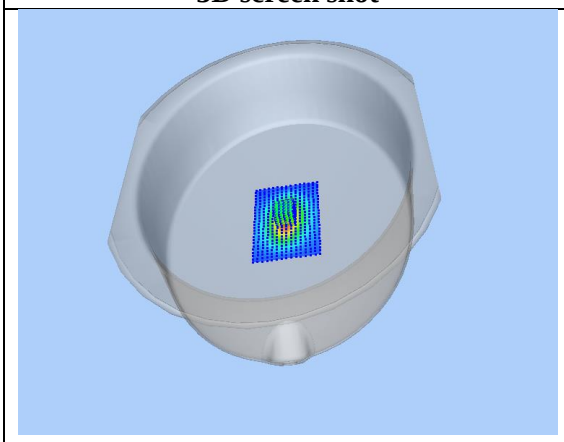
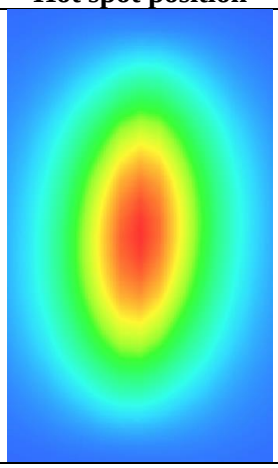
SURFACE SAR	VOLUME SAR
	

Maximum location: X=-2.00, Y=1.00
SAR Peak: 0.88 W/kg

SAR 10g (W/Kg)	0.352365
SAR 1g (W/Kg)	0.565682

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.8833	0.6242	0.4046	0.2661	0.1837	0.1209	0.0877



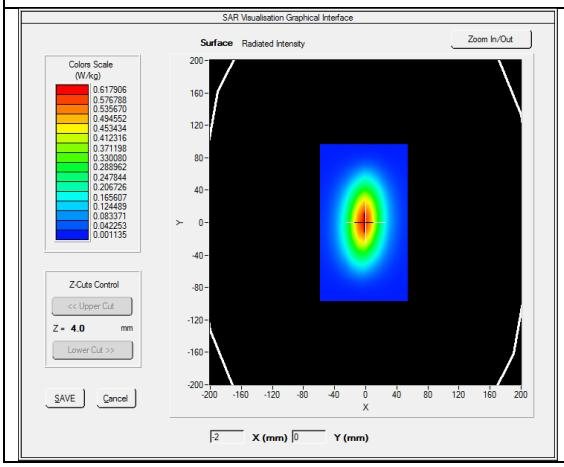
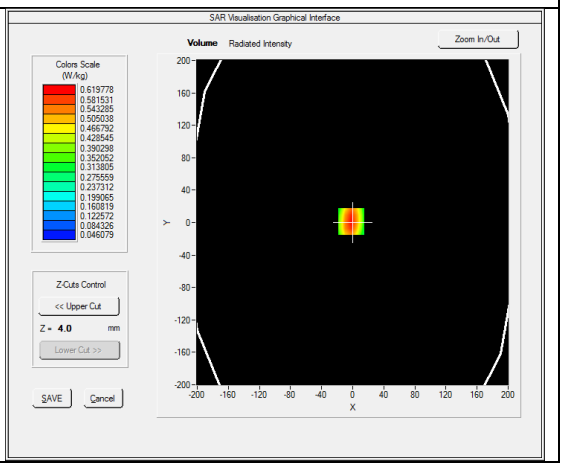
3D screen shot	Hot spot position
	

Test Laboratory: AGC Lab **Date: Aug. 22,2022**
System Check Head 835 MHz
DUT: Dipole 835 MHz Type: SID 835
Communication System CW; Communication System Band: D835 (835.0 MHz); Duty Cycle: 1:1; Conv.F=1.42
Frequency: 835 MHz; Medium parameters used: f = 835 MHz; σ=0.91 mho/m; εr =41.62; ρ= 1000 kg/m³ ;
Phantom section: Flat Section; Input Power=18dBm
Ambient temperature (℃):22.2, Liquid temperature (℃): 22.0

SATIMO Configuration:

- Probe: SSE2; Calibrated: Apr. 13, 2022; Serial No.: SN 13/22 EPGO368
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V4_02_35

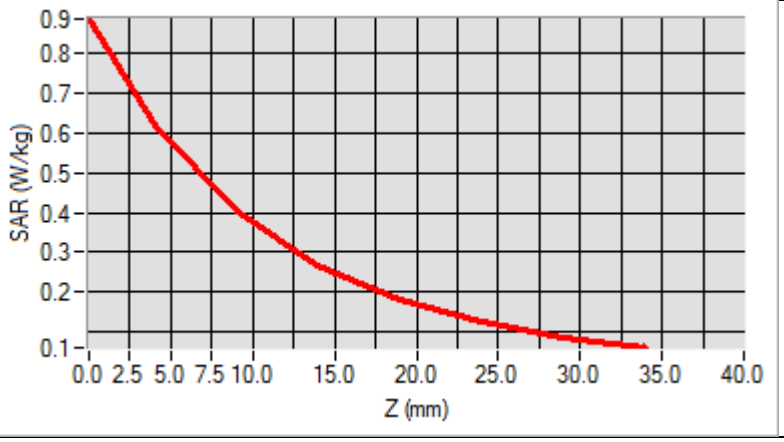
Configuration/System Check 835MHz Head/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/System Check 835MHz Head/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm

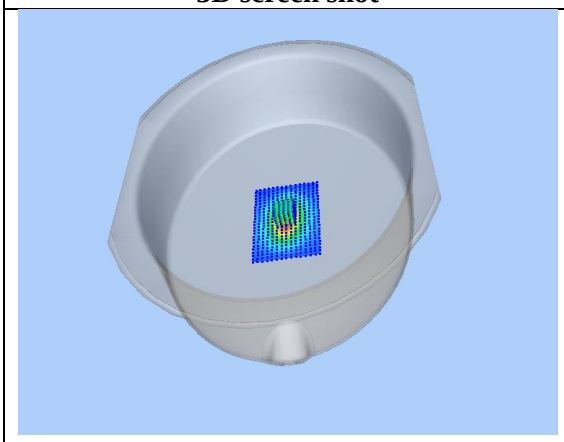
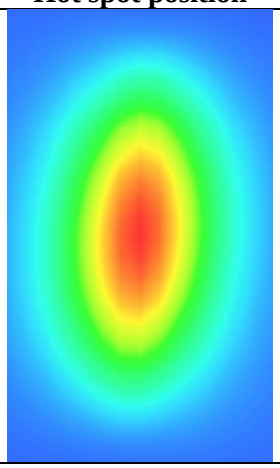
SURFACE SAR	VOLUME SAR
	

Maximum location: X=-2.00, Y=1.00
SAR Peak: 0.88 W/kg

SAR 10g (W/Kg)	0.376253
SAR 1g (W/Kg)	0.594235

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.8819	0.6176	0.4072	0.2696	0.1879	0.1222	0.0872



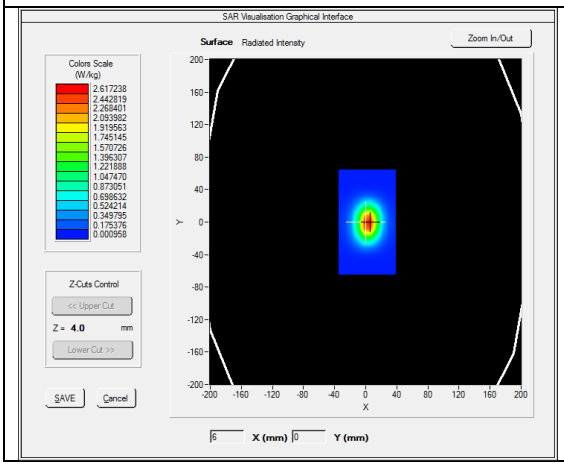
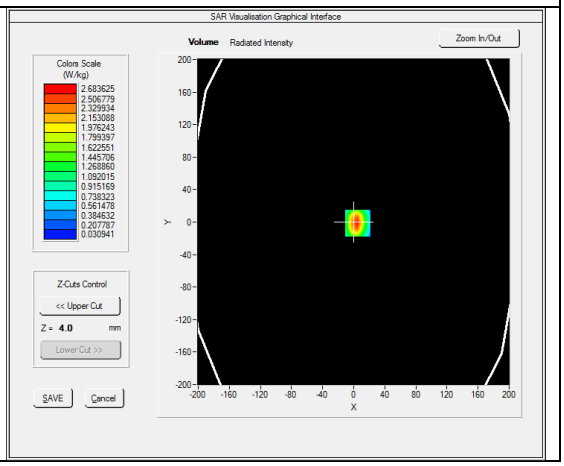
3D screen shot	Hot spot position
	

Test Laboratory: AGC Lab **Date: Aug. 25,2022**
System Check Head 1750MHz
DUT: Dipole 1800 MHz; Type: SID 1800
Communication System: CW; Communication System Band: D1700 (1750.0 MHz); Duty Cycle:1:1; Conv.F=1.73
Frequency: 1750 MHz; Medium parameters used: f = 1750MHz; σ=1.41 mho/m; εr =39.79; ρ= 1000 kg/m³ ;
Phantom section: Flat Section; Input Power=18dBm
Ambient temperature (℃): 21.6, Liquid temperature (℃): 21.3

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

- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V4_02_35

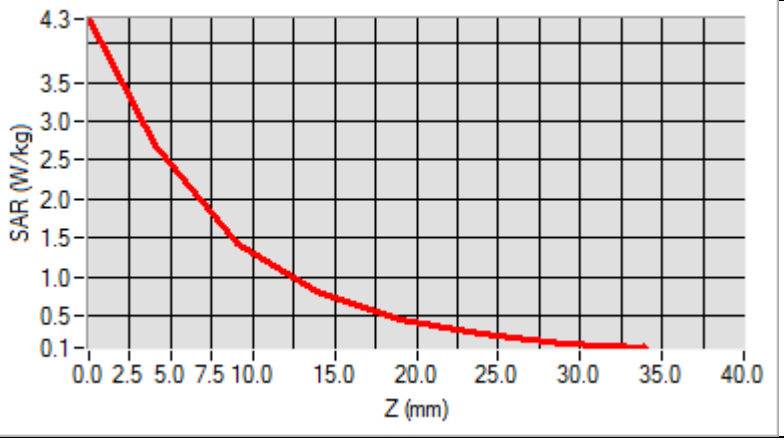
Configuration/System Check 1750MHz Head/Area Scan: Measurement grid: dx=8mm,dy=8mm
Configuration/System Check 1750MHz Head/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm

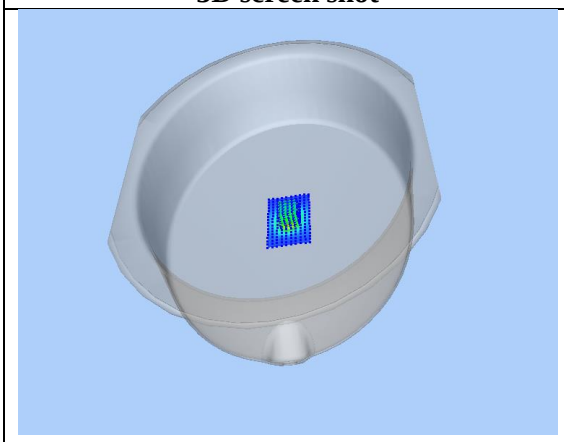
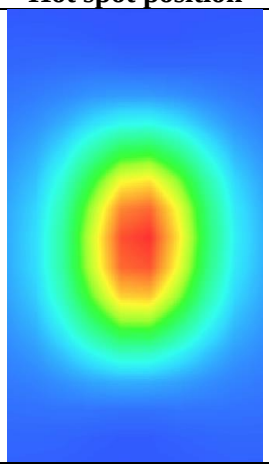
SURFACE SAR	VOLUME SAR
	

Maximum location: X=5.00, Y=-1.00
SAR Peak: 4.37 W/kg

SAR 10g (W/Kg)	1.273523
SAR 1g (W/Kg)	2.555816

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	4.3211	2.6839	1.4362	0.8069	0.4507	0.2571	0.1462



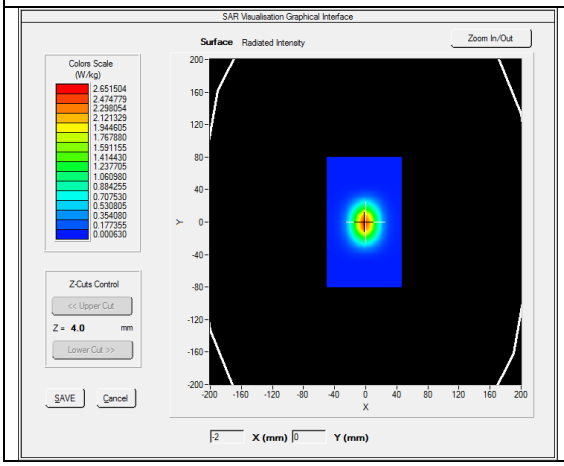
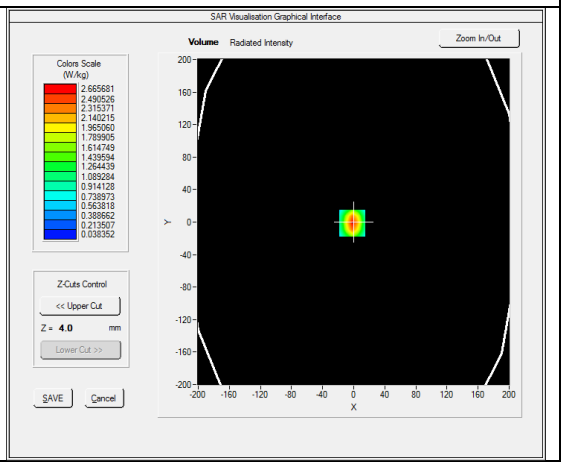
3D screen shot	Hot spot position
	

Test Laboratory: AGC Lab **Date: Aug. 23,2022**
System Check Head 1900MHz
DUT: Dipole 1900 MHz; Type: SID 1900
Communication System: CW; Communication System Band: D1900 (1900.0 MHz); Duty Cycle:1:1; Conv.F=1.77
Frequency: 1900 MHz; Medium parameters used: f = 1900 MHz; σ=1.36 mho/m; εr =40.29; ρ= 1000 kg/m³ ;
Phantom section: Flat Section; Input Power=18dBm
Ambient temperature (℃):21.6, Liquid temperature (℃): 21.4

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

- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V4_02_35

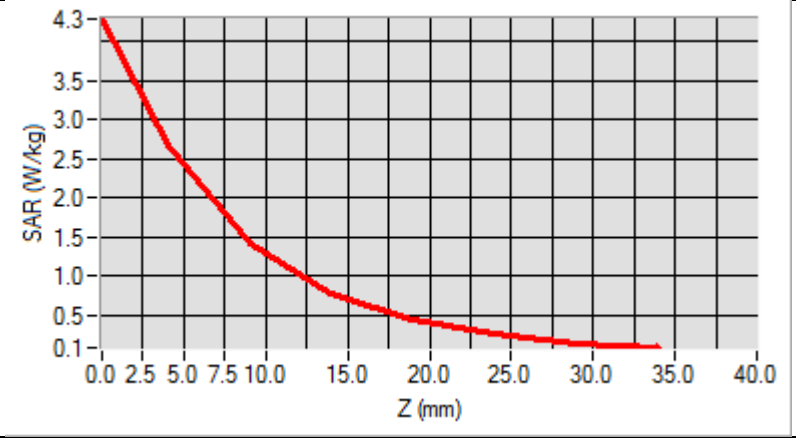
Configuration/System Check 1900MHz Head/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/System Check 1900MHz Head/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm

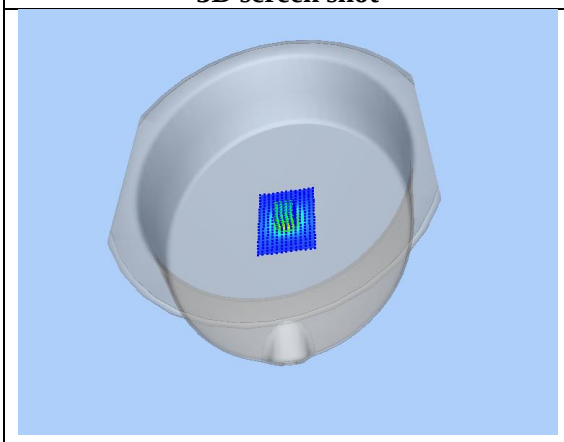
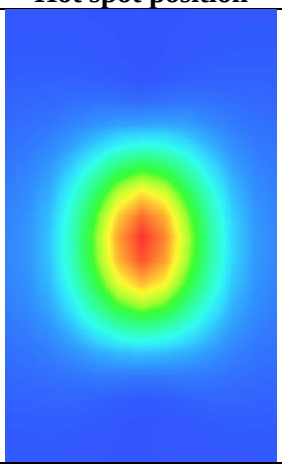
SURFACE SAR	VOLUME SAR
	

Maximum location: X=-2.00, Y=-1.00
SAR Peak: 4.27 W/kg

SAR 10g (W/Kg)	1.276523
SAR 1g (W/Kg)	2.499253

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	4.2929	2.6653	1.4262	0.7859	0.4431	0.2519	0.1446



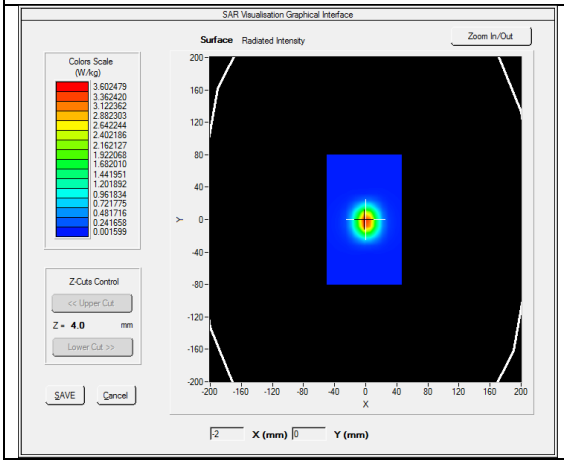
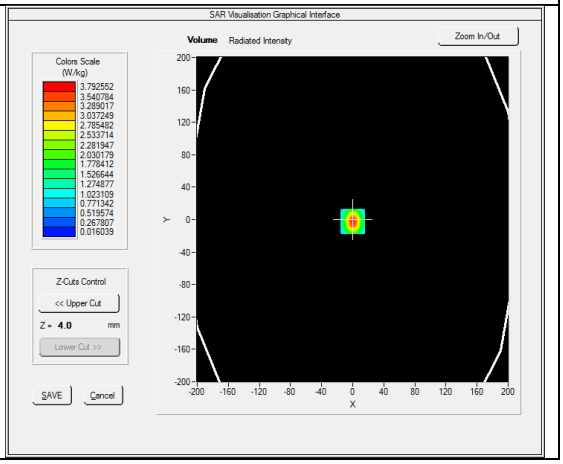
3D screen shot	Hot spot position
	

Test Laboratory: AGC Lab **Date: Aug. 28,2022**
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=1.99
Frequency: 2450 MHz; Medium parameters used: f = 2450 MHz; σ=1.76 mho/m; εr =38.77; ρ= 1000 kg/m³ ;
Phantom section: Flat Section; Input Power=18dBm
Ambient temperature (℃):21.5, Liquid temperature (℃): 21.2

SATIMO Configuration

- Probe: SSE2; Calibrated: Apr. 13, 2022; Serial No.: SN 13/22 EPGO368
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V4_02_35

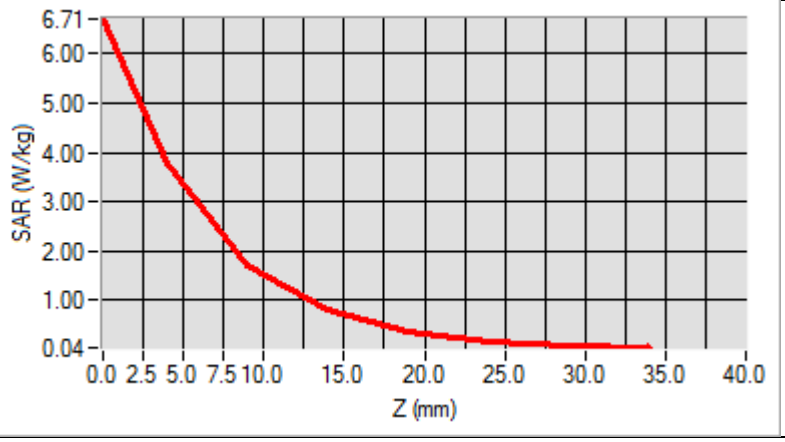
Configuration/System Check 2450MHz Head/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/System Check 2450MHz Head/Zoom Scan: Measurement grid: dx=5mm,dy=5mm, dz=5mm

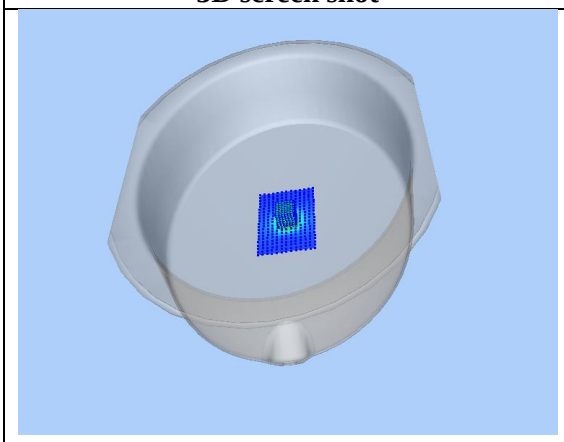
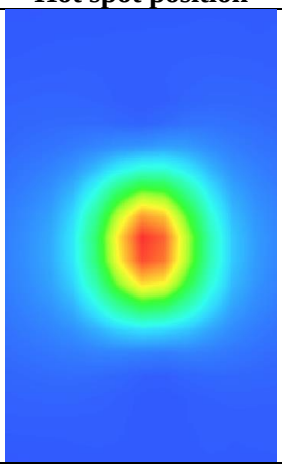
SURFACE SAR	VOLUME SAR
	

Maximum location: X=0.00, Y=-2.00
SAR Peak: 6.61 W/kg

SAR 10g (W/Kg)	1.566952
SAR 1g (W/Kg)	3.497156

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	6.7132	3.7942	1.7176	0.8061	0.3826	0.1839	0.0867



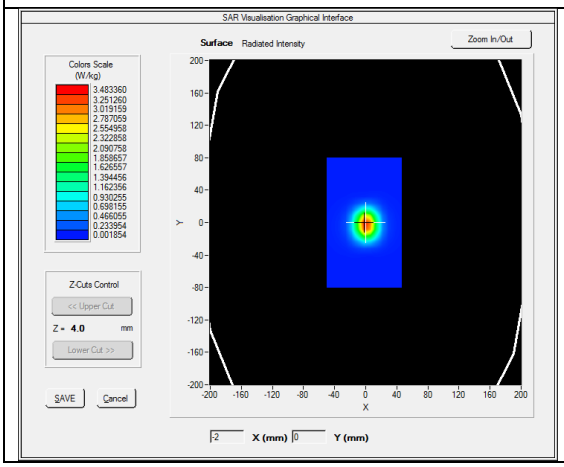
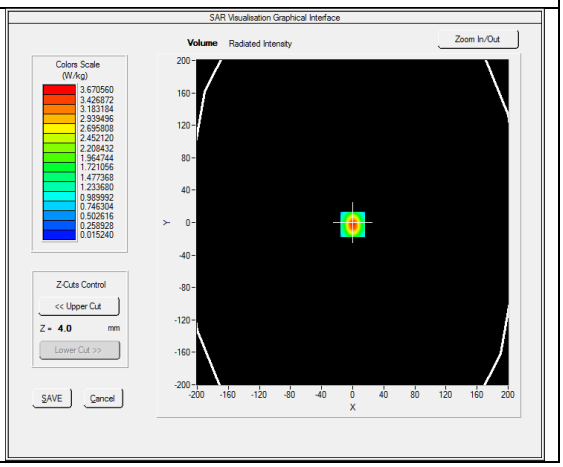
3D screen shot	Hot spot position
	

Test Laboratory: AGC Lab **Date: Aug. 26,2022**
System Check Head 2600MHz
DUT: Dipole 2600 MHz; Type: SID 2600
Communication System: CW; Communication System Band: D2600 (2600.0 MHz); Duty Cycle: 1:1; Conv.F=1.82
Frequency:2600 MHz; Medium parameters used: f = 2600 MHz; σ=1.89 mho/m; εr =38.68; ρ= 1000 kg/m³ ;
Phantom section: Flat Section; Input Power=18dBm
Ambient temperature (℃): 22.4, Liquid temperature (℃): 22.2

SATIMO Configuration:

- Probe: SSE2; Calibrated: Apr. 13, 2022; Serial No.: SN 13/22 EPGO368
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V4_02_35

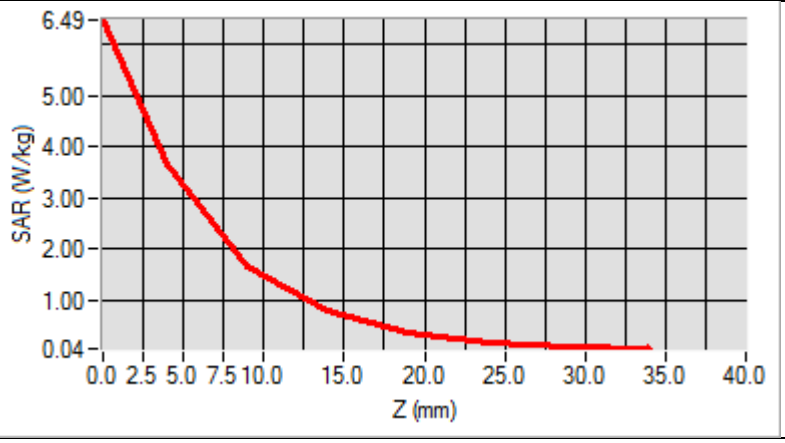
Configuration/System Check 2600 Head/Area Scan: Measurement grid: dx=8mm,dy=8mm
Configuration/System Check 2600 Head/Zoom Scan: Measurement grid: dx=5mm,dy=5mm, dz=5mm

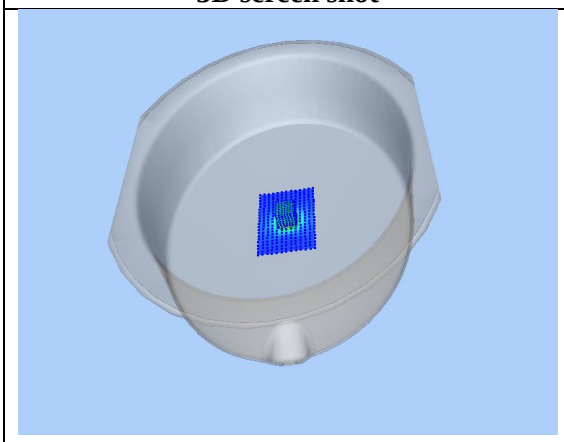
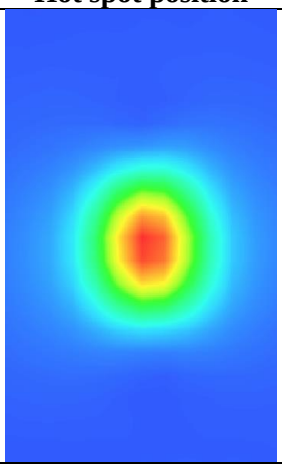
SURFACE SAR	VOLUME SAR
	

Maximum location: X=0.00, Y=-2.00
SAR Peak: 6.40 W/kg

SAR 10g (W/Kg)	1.516713
SAR 1g (W/Kg)	3.376586

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	6.4962	3.6722	1.6653	0.7791	0.3671	0.1732	0.0851

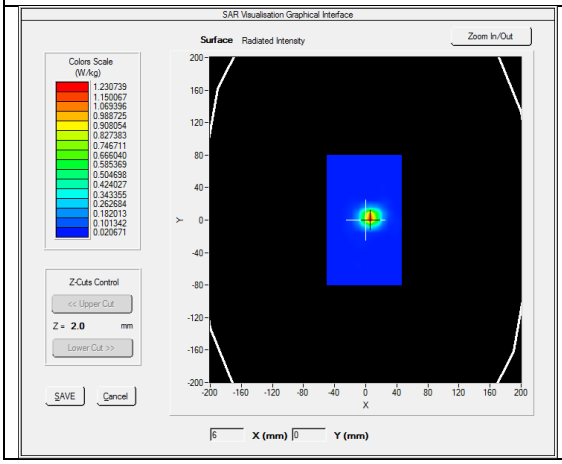
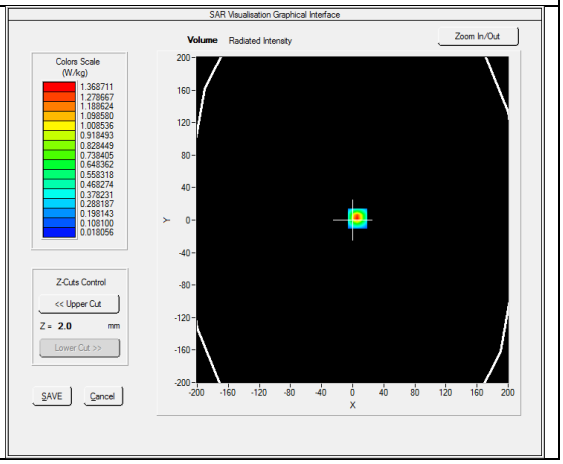


3D screen shot	Hot spot position
	

Test Laboratory: AGC Lab **Date: Aug. 13,2022**
System Check 5200 MHz
DUT: Dipole 5000MHz Type: SWG5500
Communication System: CW; Communication System Band: D5000 (5000.0 MHz); Duty Cycle: 1:1; Conv.F=1.28
Frequency: 5200 MHz; Medium parameters used: f = 5200 MHz; σ =4.62 mho/m; εr =35.26; ρ= 1000 kg/m³ ;
Phantom section: Flat Section; Input Power=18dBm
Ambient temperature (℃): 21.4, Liquid temperature (℃): 21.2

SATIMO Configuration:
- Probe: SSE2; Calibrated: Apr. 13, 2022; Serial No.: SN 13/22 EPGO368
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V4_02_35

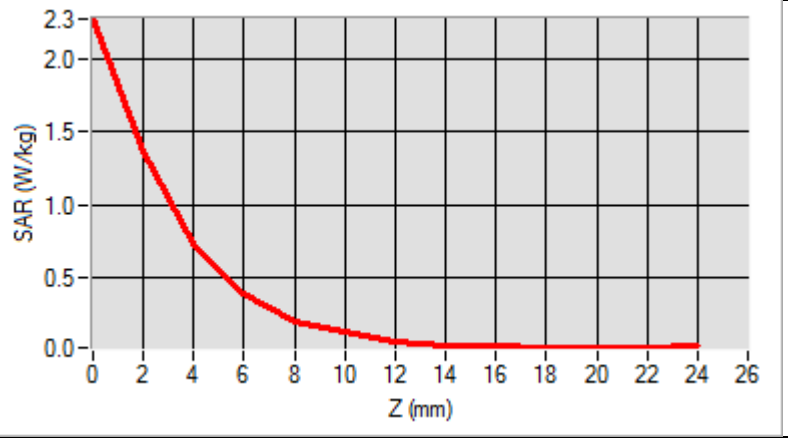
Configuration/System Check 5200 MHz Body/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/System Check 5200 MHz Body/Zoom Scan: Measurement grid: dx=4mm,dy=4mm, dz=2mm

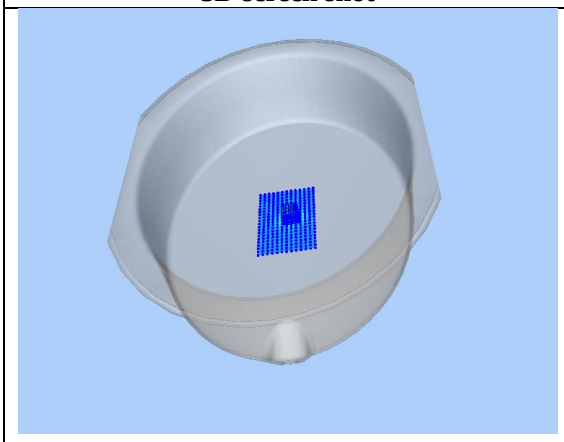
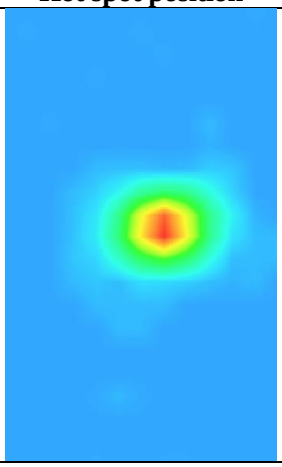
SURFACE SAR	VOLUME SAR
	

Maximum location: X=6.00, Y=2.00
SAR Peak: 2.40 W/kg

SAR 10g (W/Kg)	0.229412
SAR 1g (W/Kg)	0.732015

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)	2.2694	1.3687	0.7339	0.3936	0.1985	0.1280	0.0625	0.0395	0.0313	0.0197	0.0207	0.0209

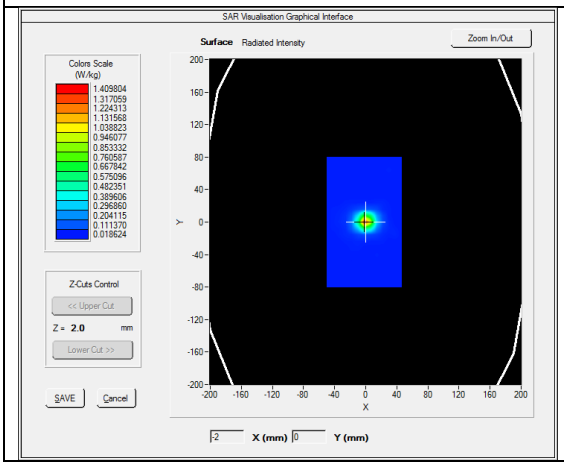
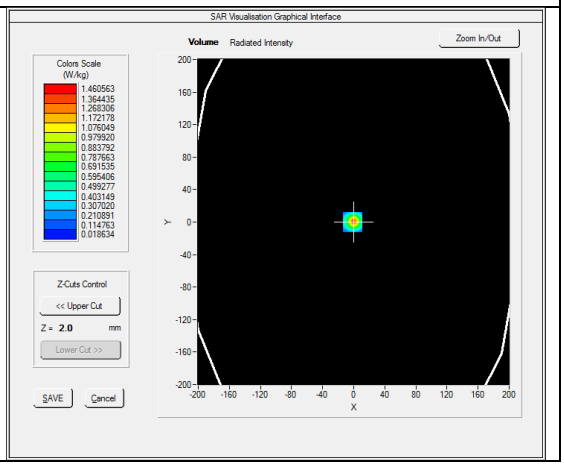


3D screen shot	Hot spot position
	

Test Laboratory: AGC Lab **Date: Aug. 14,2022**
System Check 5200 MHz
DUT: Dipole 5000MHz Type: SWG5500
Communication System: CW; Communication System Band: D5000 (5000.0 MHz); Duty Cycle: 1:1; Conv.F=1.49
Frequency: 5200 MHz; Medium parameters used: f = 5200 MHz; σ =4.79 mho/m; εr =35.26; ρ= 1000 kg/m^3 ;
Phantom section: Flat Section; Input Power=18dBm
Ambient temperature (℃): 22.8, Liquid temperature (℃): 22.5

SATIMO Configuration:
- Probe: SSE2; Calibrated: Apr. 13, 2022; Serial No.: SN 13/22 EPGO368
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V4_02_35

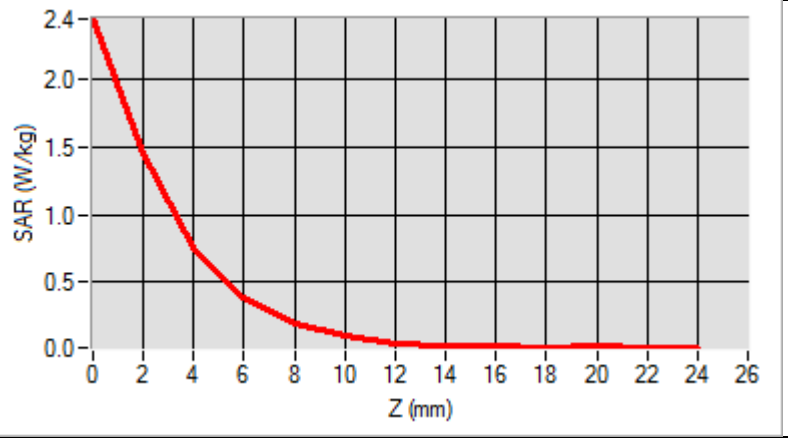
Configuration/System Check 5200 MHz Body/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/System Check 5200 MHz Body/Zoom Scan: Measurement grid: dx=4mm,dy=4mm, dz=2mm

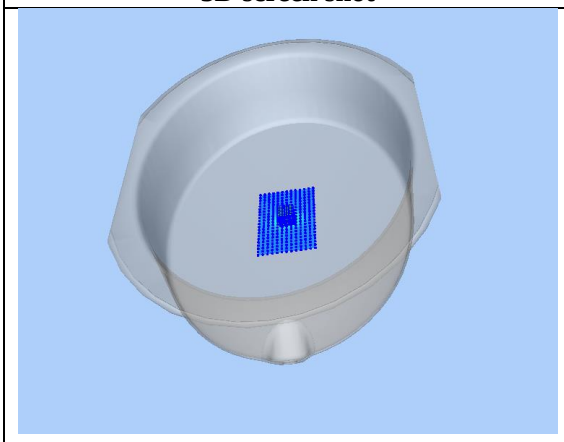
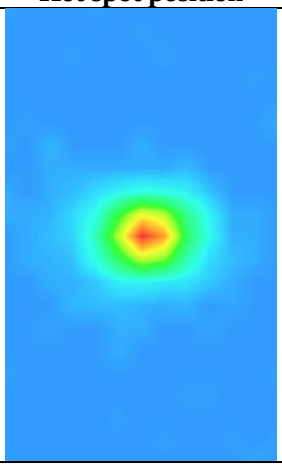
SURFACE SAR	VOLUME SAR
	

Maximum location: X=-1.00, Y=0.00
SAR Peak: 2.57 W/kg

SAR 10g (W/Kg)	0.233976
SAR 1g (W/Kg)	0.764402

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)	2.4446	1.4606	0.7555	0.3906	0.2027	0.1140	0.0536	0.0336	0.0293	0.0193	0.0271	0.0240

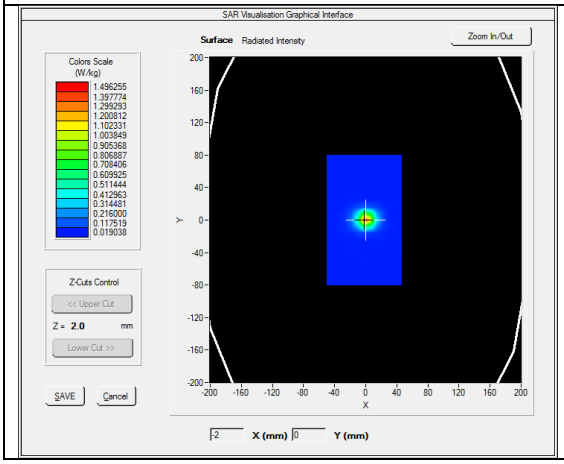
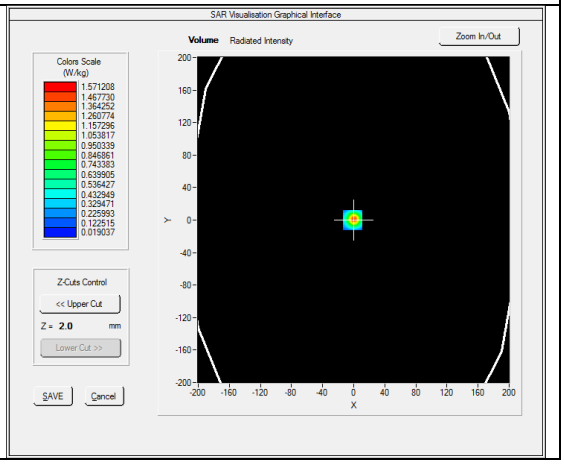


3D screen shot	Hot spot position
	

Test Laboratory: AGC Lab **Date: Aug. 15,2022**
System Check 5600 MHz
DUT: Dipole 5000MHz Type: SWG5500
Communication System: CW; Communication System Band: D5000 (5000.0 MHz); Duty Cycle: 1:1; Conv.F=1.52
Frequency: 5600 MHz; Medium parameters used: f = 5600 MHz; σ =4.96 mho/m; εr =35.22; ρ= 1000 kg/m^3 ;
Phantom section: Flat Section; Input Power=18dBm
Ambient temperature (℃): 21.3, Liquid temperature (℃): 21.1

SATIMO Configuration:
- Probe: SSE2; Calibrated: Apr. 13, 2022; Serial No.: SN 13/22 EPGO368
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V4_02_35

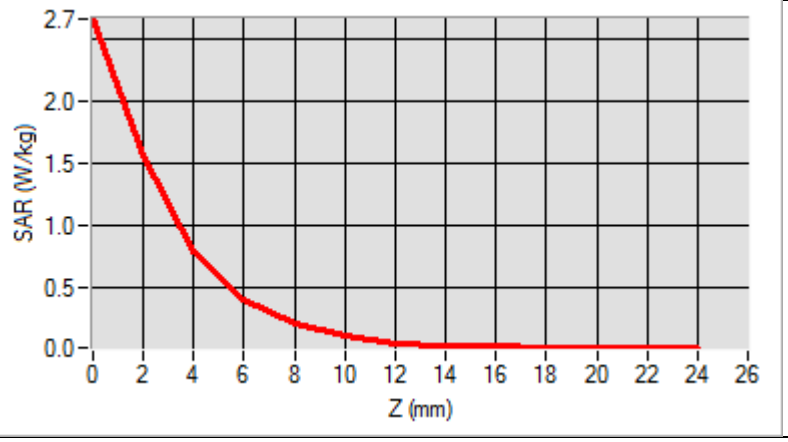
Configuration/System Check 5600 MHz Body/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/System Check 5600 MHz Body/Zoom Scan: Measurement grid: dx=4mm,dy=4mm, dz=2mm

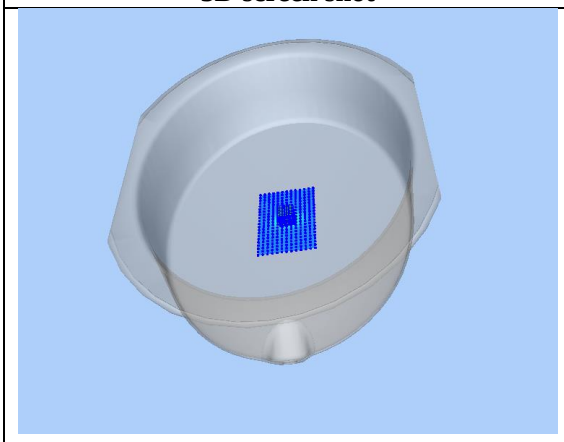
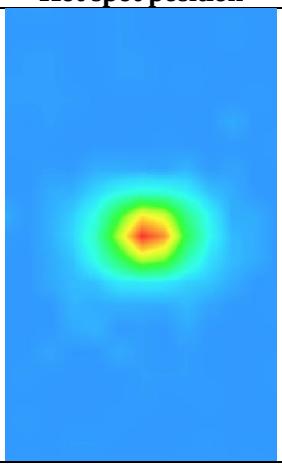
SURFACE SAR	VOLUME SAR
	

Maximum location: X=-1.00, Y=0.00
SAR Peak: 2.84 W/kg

SAR 10g (W/Kg)	0.253054
SAR 1g (W/Kg)	0.832960

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)	2.6579	1.5712	0.7900	0.4047	0.2092	0.1142	0.0564	0.0369	0.0291	0.0212	0.0194	0.0192



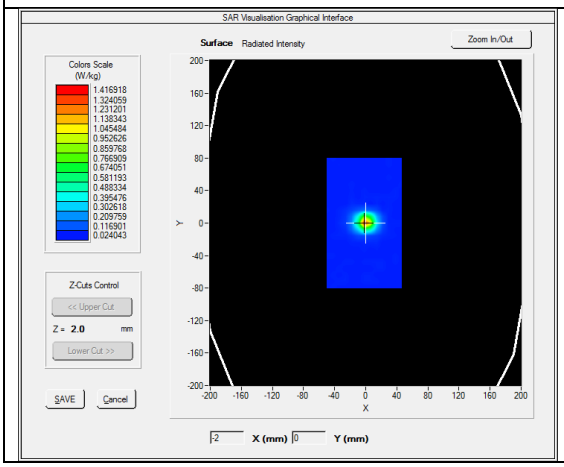
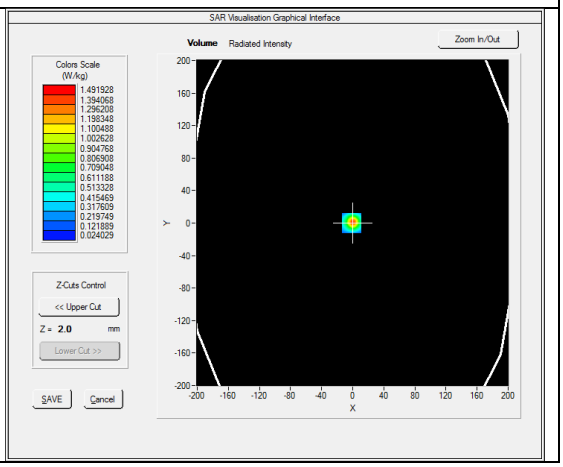
3D screen shot	Hot spot position
	

Test Laboratory: AGC Lab **Date: Aug. 16,2022**
System Check Head 5800 MHz
DUT: Dipole 5000MHz Type: SWG5500
Communication System: CW; Communication System Band: D5000 (5000.0 MHz); Duty Cycle: 1:1; Conv.F=1.42
Frequency: 5800 MHz; Medium parameters used: f = 5800 MHz; σ =5.26 mho/m; εr =36.25; ρ= 1000 kg/m^3 ;
Phantom section: Flat Section; Input Power=18dBm
Ambient temperature (℃): 22.4, Liquid temperature (℃): 22.1

SATIMO Configuration:

- Probe: SSE2; Calibrated: Apr. 13, 2022; Serial No.: SN 13/22 EPGO368
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V4_02_35

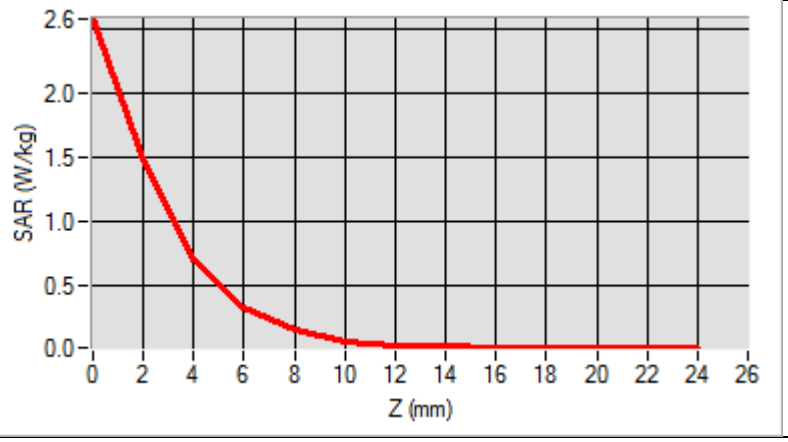
Configuration/System Check 5800 MHz Head/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/System Check 5800 MHz Head/Zoom Scan: Measurement grid: dx=4mm,dy=4mm, dz=2mm

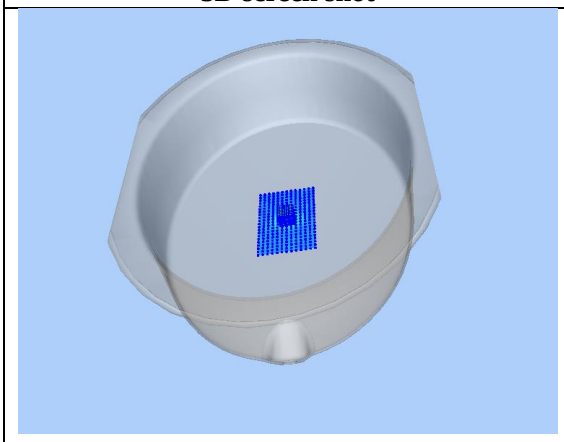
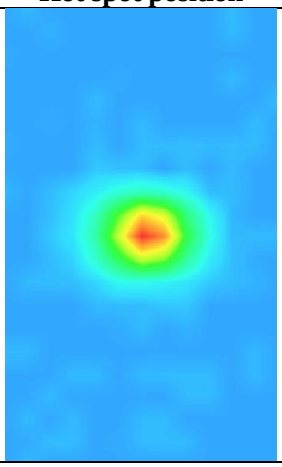
SURFACE SAR	VOLUME SAR
	

Maximum location: X=-1.00, Y=0.00
SAR Peak: 2.76 W/kg

SAR 10g (W/Kg)	0.244180
SAR 1g (W/Kg)	0.784890

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)	2.5819	1.4919	0.7149	0.3438	0.1717	0.0774	0.0449	0.0379	0.0243	0.0245	0.0243	0.0245



3D screen shot	Hot spot position
	

APPENDIX B. SAR MEASUREMENT DATA

Test Laboratory: AGC Lab **Date: Aug. 22,2022**
GSM 850 Mid-Touch-Left <SIM 1>
DUT: TD-LTE wireless data terminal; Type: T6

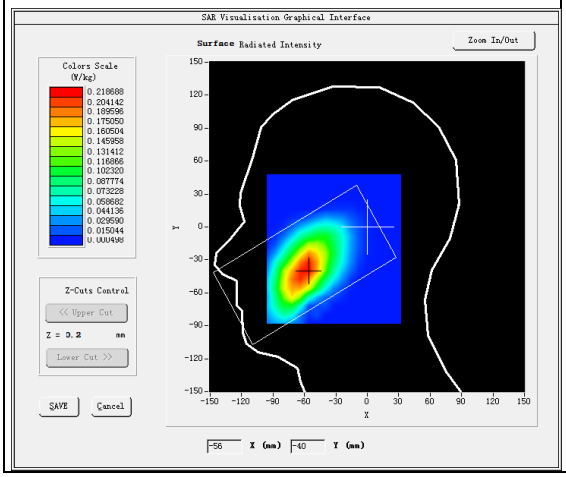
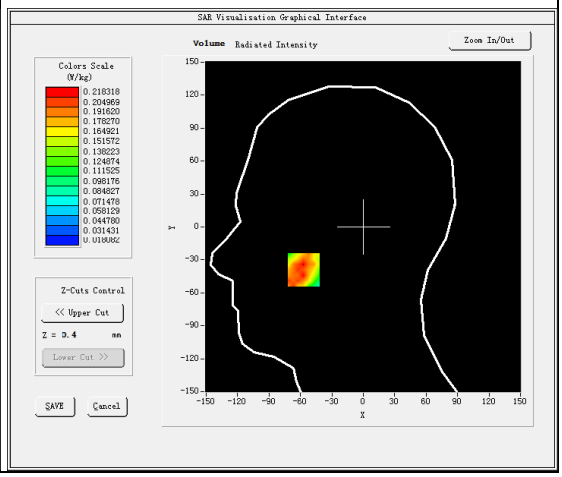
Communication System: Generic GSM; Communication System Band: GSM 850; Duty Cycle: 1:8.3; Conv.F=1.42;
Frequency: 836.6 MHz; Medium parameters used: f = 835 MHz; σ=0.93 mho/m; εr =40.34; ρ= 1000 kg/m³;
Phantom section: Left Section
Ambient temperature (℃): 22.2, Liquid temperature (℃): 22.0

SATIMO Configuration

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

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

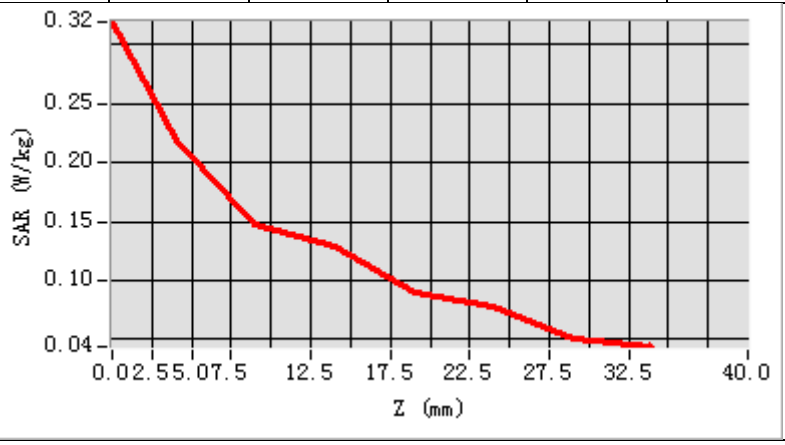
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Left head
Device Position	Cheek
Band	GSM 850
Channels	Middle
Signal	TDMA (Crest factor: 8.0)

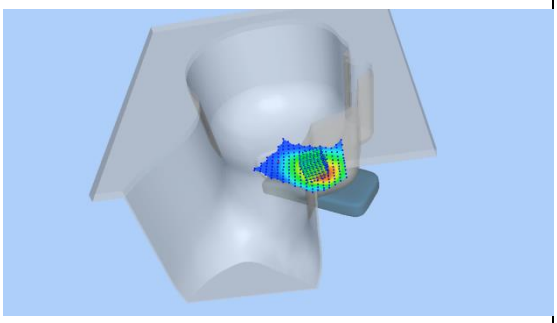
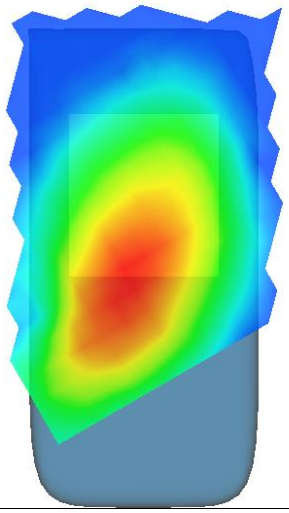
SURFACE SAR	VOLUME SAR
	

Maximum location: X=-57.00, Y=-39.00
SAR Peak: 0.31 W/kg

SAR 10g (W/Kg)	0.144898
SAR 1g (W/Kg)	0.201628

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.3191	0.2183	0.1480	0.1287	0.0901	0.0782	0.0501



3D screen shot	Hot spot position
	

Test Laboratory: AGC Lab **Date: Aug. 22,2022**
GSM 850 Mid- Body- Back (MS)<SIM 1>
DUT: TD-LTE wireless data terminal; Type: T6

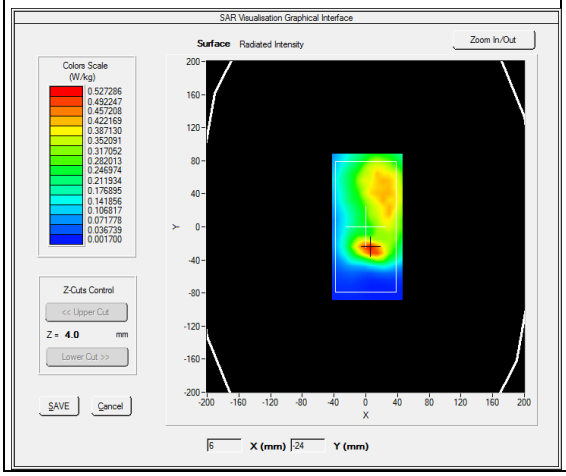
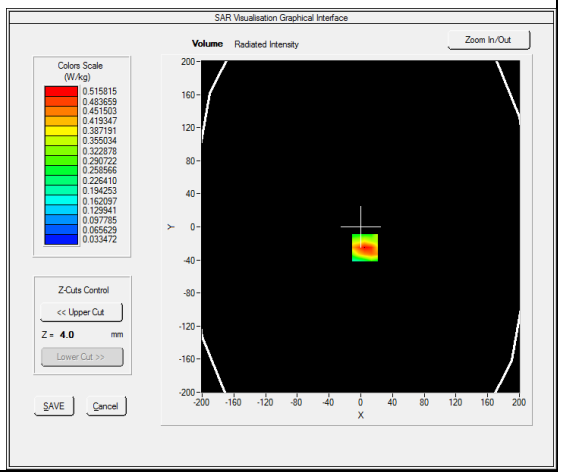
Communication System: Generic GSM; Communication System Band: GSM 850; Duty Cycle: 1:8.3; Conv.F=1.42; Frequency: 836.6 MHz; Medium parameters used: f = 835 MHz; σ= 0.93 mho/m; εr = 40.34; ρ= 1000 kg/m³ ;
Phantom section: Flat Section
Ambient temperature (℃): 22.2, Liquid temperature (℃): 22.0

SATIMO Configuration:

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

Configuration/GSM 850 Mid-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)

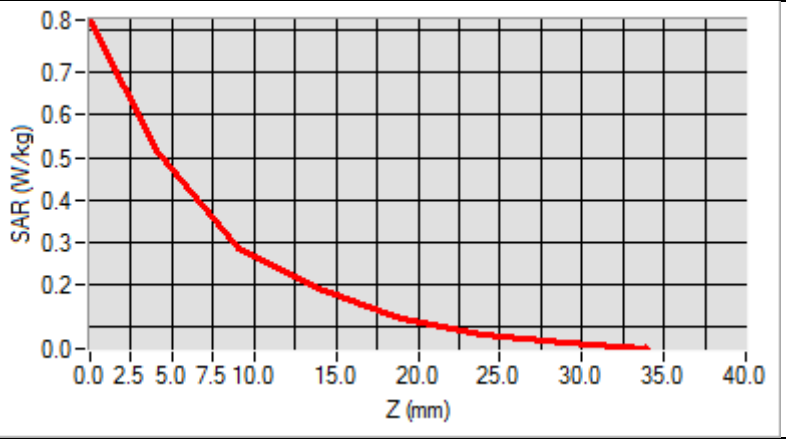
SURFACE SAR	VOLUME SAR
	

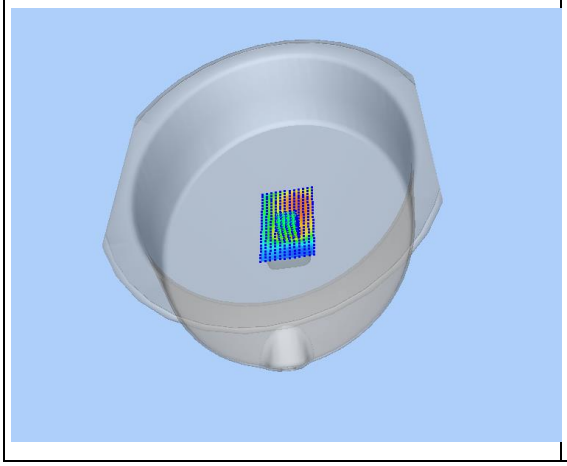
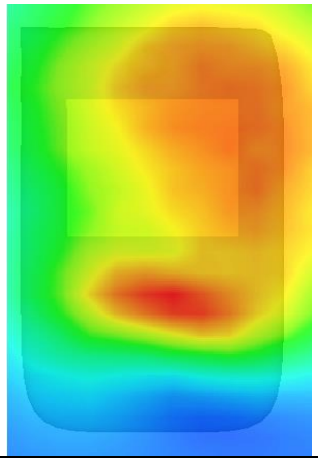
Maximum location: X=5.00, Y=-25.00
SAR Peak: 0.84 W/kg

SAR 10g (W/Kg)	0.279371
SAR 1g (W/Kg)	0.498206

Z (mm)	**0.00**	**4.00**	**9.00**	**14.00**	**19.00**	**24.00**	**29.00**

SAR (W/Kg)	0.8239	0.5158	0.2865	0.1912	0.1193	0.0844	0.0613



3D screen shot	Hot spot position
	

Test Laboratory: AGC Lab **Date: Aug. 22,2022**
GPRS 850 Mid- Body- Back (3up)
DUT: TD-LTE wireless data terminal; Type: T6

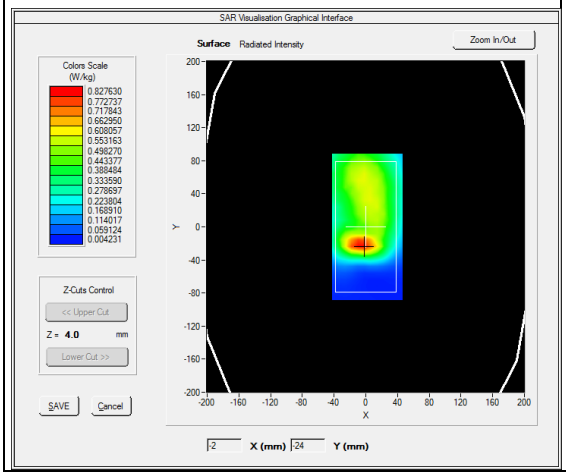
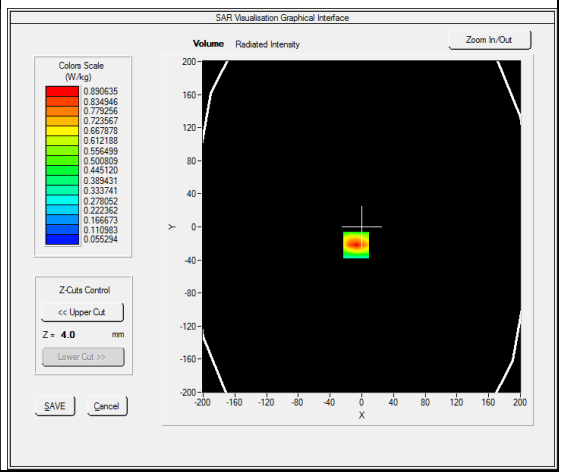
Communication System: GPRS-3 Slot; Communication System Band: GSM 850; Duty Cycle: 1:2.7; Conv.F=1.42; Frequency: 836.6 MHz; Medium parameters used: f = 835 MHz; σ= 0.93 mho/m; εr = 40.34; ρ= 1000 kg/m³ ;
Phantom section: Flat Section
Ambient temperature (℃): 22.2, Liquid temperature (℃): 22.0

SATIMO Configuration:

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

Configuration/GPRS 850 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: 2.7)

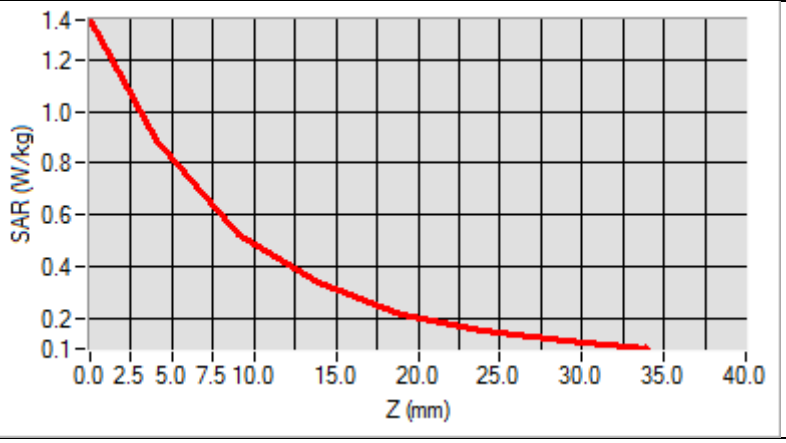
SURFACE SAR	VOLUME SAR
	

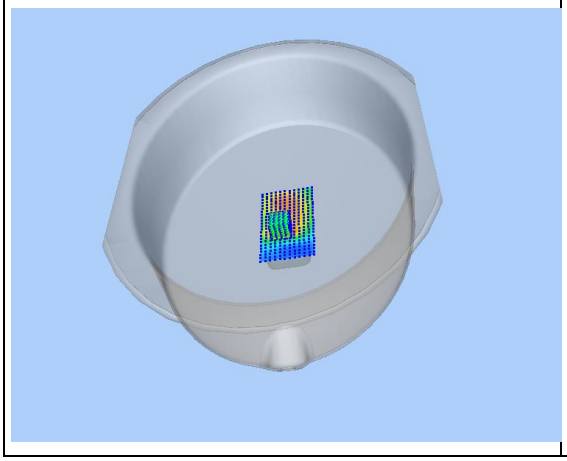
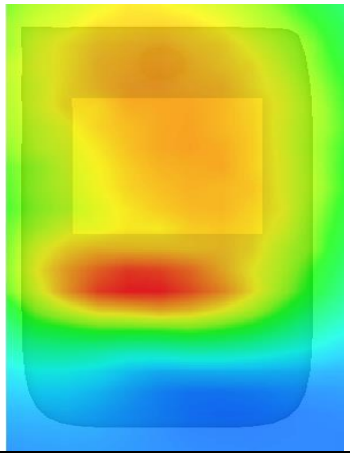
Maximum location: X=-7.00, Y=-22.00
SAR Peak: 1.36 W/kg

SAR 10g (W/Kg)	0.476886
SAR 1g (W/Kg)	0.836337

Z (mm)	**0.00**	**4.00**	**9.00**	**14.00**	**19.00**	**24.00**	**29.00**

SAR (W/Kg)	1.3506	0.8906	0.5267	0.3408	0.2203	0.1527	0.1147



3D screen shot	Hot spot position
	

Test Laboratory: AGC Lab **Date: Aug. 23,2022**
PCS 1900 Mid-Touch- Left <SIM 1>
DUT: TD-LTE wireless data terminal; Type: T6

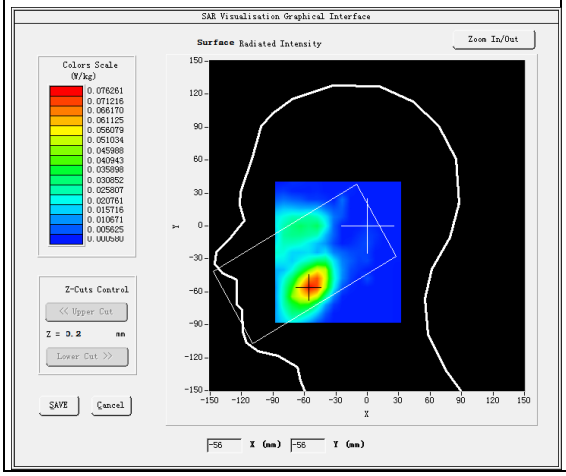
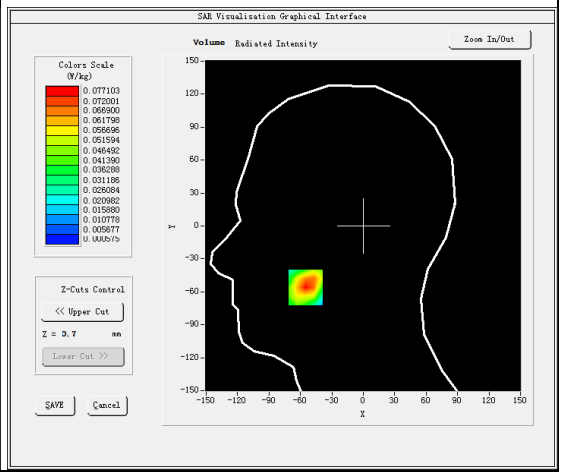
Communication System: Generic GSM; Communication System Band: PCS 1900; Duty Cycle: 1:8.3; Conv.F=1.77; Frequency: 1880 MHz; Medium parameters used: f = 1800 MHz; σ= 1.34 mho/m; εr =41.37; ρ= 1000 kg/m^3 ;
Phantom section: Left Section
Ambient temperature (℃): 21.6, Liquid temperature (℃): 21.4

SATIMO Configuration:

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

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

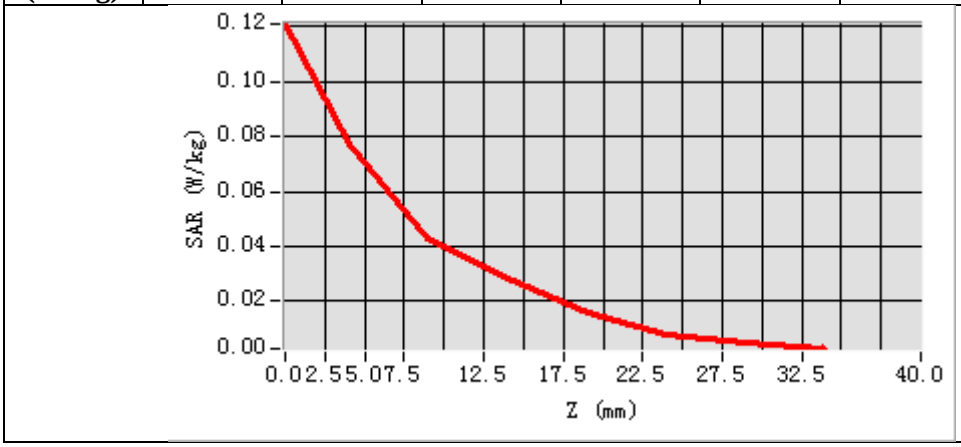
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Left head
Device Position	Cheek
Band	PCS 1900
Channels	Middle
Signal	TDMA (Crest factor: 8.0)

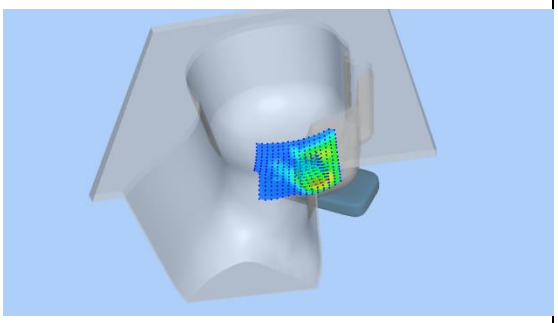
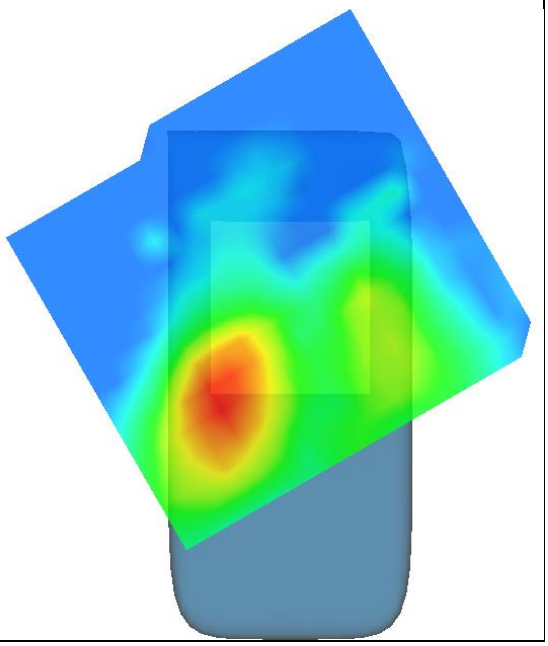
SURFACE SAR	VOLUME SAR
	

Maximum location: X=-55.00, Y=-56.00
SAR Peak: 0.12 W/kg

SAR 10g (W/Kg)	0.038400
SAR 1g (W/Kg)	0.072931

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.1211	0.0771	0.0429	0.0282	0.0160	0.0080	0.0050



3D screen shot	Hot spot position
	

Test Laboratory: AGC Lab **Date: Aug. 23,2022**
PCS 1900 Mid-Body-Back (MS)<SIM 1>
DUT: TD-LTE wireless data terminal; Type: T6

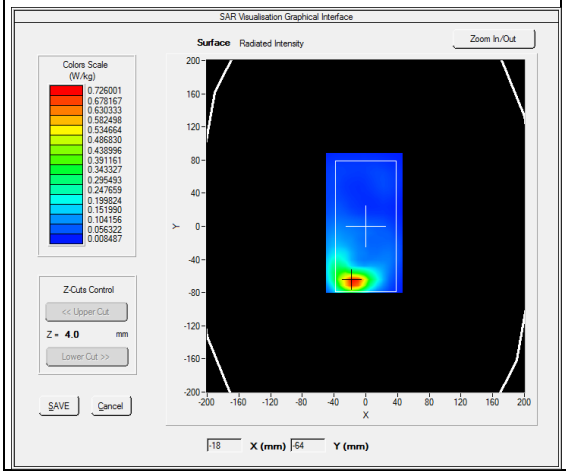
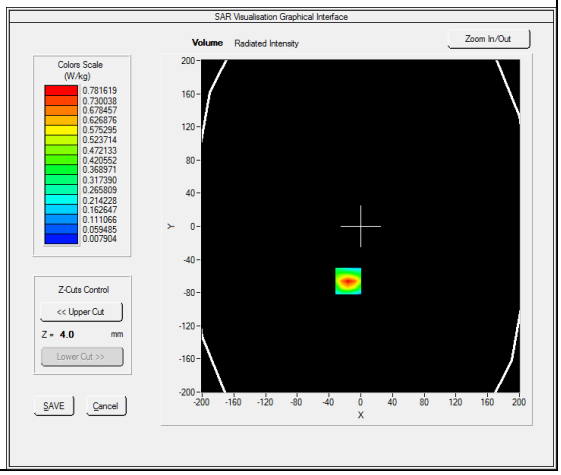
Communication System: Generic GSM; Communication System Band: PCS 1900; Duty Cycle: 1:8.3; Conv.F=1.77; Frequency: 1880 MHz; Medium parameters used: f = 1800 MHz; σ= 1.34 mho/m; εr =41.37; ρ= 1000 kg/m^3 ;
Phantom section: Flat Section
Ambient temperature (℃): 21.6, Liquid temperature (℃): 21.4

SATIMO Configuration:

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

Configuration/PCS1900 Mid-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=-66.00
SAR Peak: 0.60 W/kg

SAR 10g (W/Kg)	0.296960
SAR 1g (W/Kg)	0.421117