

SAR Test Report

Report No.: AGC04619180701FH01

FCC ID : 2ALAS-C2
APPLICATION PURPOSE : Original Equipment
PRODUCT DESIGNATION : Smart Phone
BRAND NAME : Cloud Mobile
MODEL NAME : Cirrus C2
CLIENT : Mercury Communication Co., Ltd
DATE OF ISSUE : Sep. 11,2018
STANDARD(S) : IEEE Std. 1528:2013
 FCC 47CFR § 2.1093
 IEEE/ANSI C95.1:2005
REPORT VERSION : V1.0

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

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Report Revise Record

| Report Version | Revise Time | Issued Date | Valid Version | Notes |
|----------------|-------------|--------------|---------------|-----------------|
| V1.0 | / | Sep. 11,2018 | Valid | Initial Release |



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| Test Report Certification | |
|---------------------------|---|
| Applicant Name | Mercury Communication Co., Ltd |
| Applicant Address | 6F,1 Bldg, Jia'an Science&Technology Park, No.1 Liuxian Road, Bao an District, Shenzhen, China |
| Manufacturer Name | Mercury Communication Co., Ltd |
| Manufacturer Address | 6F,1 Bldg, Jia'an Science&Technology Park, No.1 Liuxian Road, Bao an District, Shenzhen, China |
| Product Designation | Smart Phone |
| Brand Name | Cloud Mobile |
| Model Name | Cirrus C2 |
| Different Description | N/A |
| EUT Voltage | DC3.8V by battery |
| Applicable Standard | IEEE Std. 1528:2013 FCC 47CFR § 2.1093 IEEE/ANSI C95.1:2005 |
| Test Date | Aug. 01,2018 to Aug. 06,2018 |
| Performed Location | Attestation of Global Compliance(Shenzhen) Co., Ltd. 2 F, Building 2, No.1-No.4, Chaxi Sanwei Technical Industrial Park, Gushu, Xixiang Street, Bao'an District, Shenzhen, China |
| Report Template | AGCRT-US-3G3/SAR (2018-01-01) |

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

Tested By


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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 | | |
| GSM 850 | 0.321 | 0.584 | 1.6 | |
| PCS 1900 | 0.297 | 1.031 | | |
| UMTS Band II | 0.423 | 1.139 | | |
| UMTS Band IV | 0.357 | 0.904 | | |
| UMTS Band V | 0.265 | 0.346 | | |
| WIFI 2.4G | 0.089 | 0.030 | | |
| Simultaneous Reported SAR | 1.222 | | | |
| 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

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2. GENERAL INFORMATION

2.1. EUT Description

| General Information | |
|-------------------------|--|
| Product Designation | Smart Phone |
| Test Model | Cirrus C2 |
| Hardware Version | AL_T52_MB_20 |
| Software Version | Cirrus_C2_20180822 |
| Device Category | Portable |
| RF Exposure Environment | Uncontrolled |
| Antenna Type | Internal |
| GSM and GPRS& EGPRS | |
| Support Band | <input checked="" type="checkbox"/> GSM 850 <input checked="" type="checkbox"/> PCS 1900 <input checked="" type="checkbox"/> GSM 900 <input checked="" type="checkbox"/> 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 | GSM850:1.25dBi; PCS1900: 1.15dBi; |
| Max. Average Power | GSM850: 31.45dBm ;PCS1900: 28.69dBm |
| WCDMA | |
| Support Band | <input checked="" type="checkbox"/> UMTS FDD Band II <input checked="" type="checkbox"/> UMTS FDD Band V <input checked="" type="checkbox"/> UMTS FDD Band IV <input type="checkbox"/> UMTS FDD Band I <input type="checkbox"/> UMTS FDD Band III <input type="checkbox"/> UMTS FDD Band VIII |
| HS Type | HSPA(HSUPA/HSDPA) |
| TX Frequency Range | FDD Band II: 1850-1910MHz; FDD Band V: 820-850MHz Band IV: 1712.4-1752.6MHz |
| RX Frequency Range | FDD Band II: 1930-1990MHz; FDD Band V: 869-894MHz Band IV: 2112.4-2152.6MHz |
| Release Version | Rel-6 |
| Type of modulation | HSDPA:QPSK/16QAM; HSUPA:BPSK; WCDMA:QPSK |
| Antenna Gain | WCDMA850: 1.14dBi; WCDMA 1700: 1.09dBi; WCDMA1900:1.10dBi |
| Max. Average Power | Band II: 22.40dBm; Band IV: 21.55 dBm; Band V: 21.44 dBm |

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EUT Description(Continue)

| Bluetooth | |
|---------------------|---|
| Operation Frequency | 2402~2480MHz |
| Antenna Gain | 1.0dBi |
| Bluetooth Version | BR/EDR,BLE |
| Type of modulation | BR/EDR: GFSK, $\pi/4$ -DQPSK, 8-DPSK; BLE: GFSK |
| Peak Power | BR/EDR: 5.444dBm; BLE: -2.445dBm |

| WIFI | |
|---------------------|--|
| WIFI Specification | <input type="checkbox"/> 802.11a <input checked="" type="checkbox"/> 802.11b <input checked="" type="checkbox"/> 802.11g <input checked="" type="checkbox"/> 802.11n(20) <input checked="" type="checkbox"/> 802.11n(40) |
| Operation Frequency | 2412~2462MHz |
| Avg. Burst Power | IEEE 802.11b:15.70dBm, IEEE 802.11g:13.77dBm; IEEE 802.11n(20):13.74dBm, IEEE 802.11n(40):13.29dBm |
| Antenna Gain | 1.0dBi |

| Accessories | |
|--------------------|--|
| Battery | Brand name: Cloud Mobile Model No. : Cirrus C2 Voltage and Capacitance: 3.8V & 2100mAh |
| 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.

| Product | Type |
|---------|--|
| | <input checked="" type="checkbox"/> Production unit <input type="checkbox"/> Identical Prototype |

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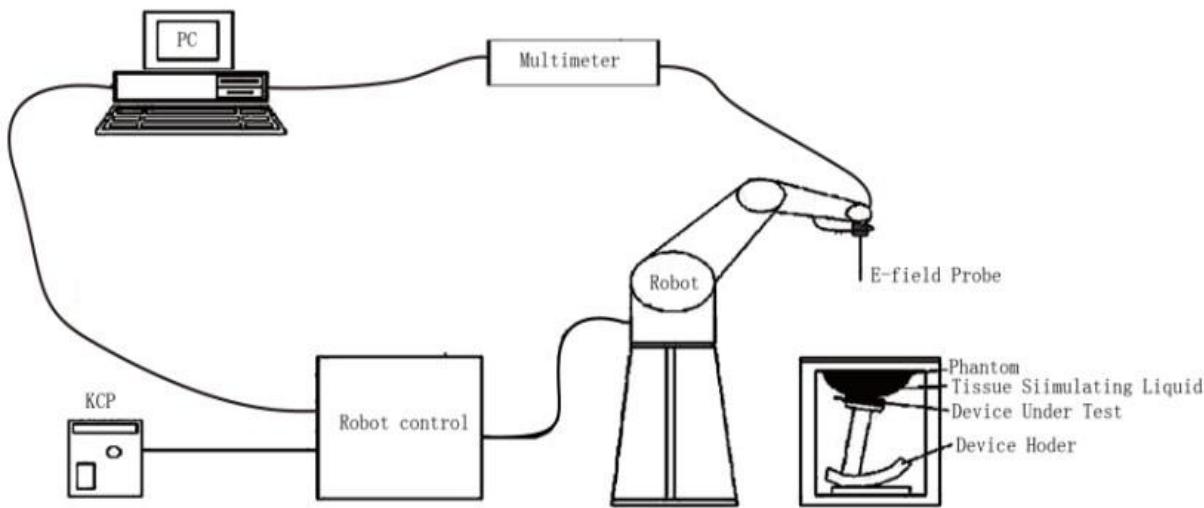


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3. SAR MEASUREMENT SYSTEM

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



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

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

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3.2. COMOSAR E-Field Probe

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

Isotropic E-Field Probe Specification

| | |
|---------------------------|--|
| Model | SSE2 |
| Manufacture | MVG |
| Identification No. | SN 08/16 EPGO282 |
| Frequency | 0.7GHz-6GHz Linearity: $\pm 0.06\text{dB}$ (700MHz-6GHz) |
| Dynamic Range | 0.01W/Kg-100W/Kg Linearity: $\pm 0.06\text{dB}$ |
| 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 precision of better 30%. |



3.3. Robot

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

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

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

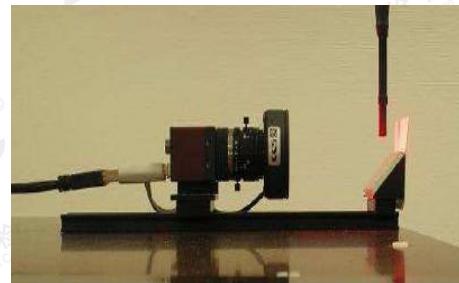


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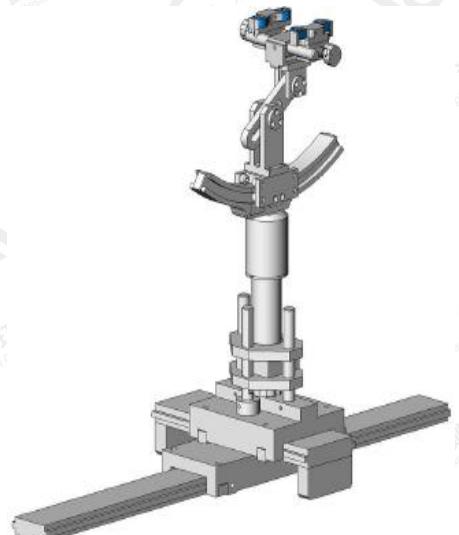
3.4. Video Positioning System

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



3.5. Device Holder

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



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3.6. SAM Twin Phantom

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

- Left head
- Right head
- Flat phantom



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



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4. SAR MEASUREMENT PROCEDURE

4.1. Specific Absorption Rate (SAR)

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

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

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

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

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4.2. SAR Measurement Procedure

Step 1: Power Reference Measurement

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

Step 2: Area Scan

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

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

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

Step 3: Zoom Scan

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

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

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

Step 4: Power Drift Measurement

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

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4.3. RF Exposure Conditions

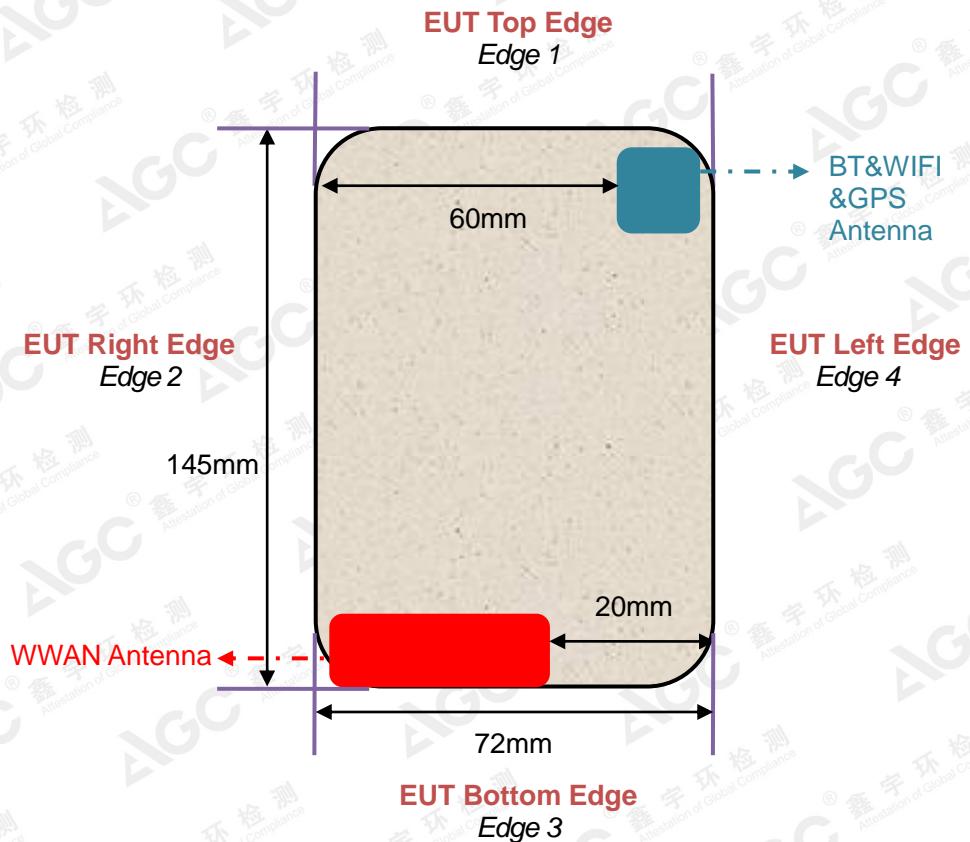
Test Configuration and setting:

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

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

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

Antenna Location: (the back view)



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For WWAN mode:

| Test Configurations | Antenna to edges/surface | SAR required | Note |
|---------------------|--------------------------|--------------|--|
| Head | | | |
| Left Touch | | Yes | -- |
| Left Tilt | | Yes | -- |
| Right Touch | | Yes | -- |
| Right Tilt | | Yes | -- |
| Body | | | |
| Back | <25mm | Yes | -- |
| Front | <25mm | Yes | -- |
| Hotspot | | | |
| Back | <25mm | Yes | -- |
| Front | <25mm | Yes | -- |
| Edge 1 (Top) | 126mm | No | SAR is not required for the distance between the antenna and the edge is >25mm as per KDB 941225 D06 Hotspot SAR |
| Edge 2 (Right) | 2mm | Yes | -- |
| Edge 3 (Bottom) | 2mm | Yes | -- |
| Edge 4 (Left) | 20mm | Yes | -- |

For WLAN mode:

| Test Configurations | Antenna to edges/surface | SAR required | Note |
|---------------------|--------------------------|--------------|--|
| Head | | | |
| Left Touch | | Yes | -- |
| Left Tilt | | Yes | -- |
| Right Touch | | Yes | -- |
| Right Tilt | | Yes | -- |
| Body | | | |
| Back | <25mm | Yes | -- |
| Front | <25mm | Yes | -- |
| Hotspot | | | |
| Back | <25mm | Yes | -- |
| Front | <25mm | Yes | -- |
| Edge 1 (Top) | 2mm | Yes | -- |
| Edge 2 (Right) | 60mm | 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) | 122mm | 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) | 2mm | Yes | -- |

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5. TISSUE SIMULATING LIQUID

For SAR measurement of the field distribution inside the phantom, the phantom must be filled with homogeneous tissue simulating liquid to a depth of at least 15cm. For head SAR testing the liquid height from the ear reference point (ERP) of the phantom to the liquid top surface is larger than 15cm. For body SAR testing, the liquid height from the center of the flat phantom to the liquid top surface is larger than 15cm. The nominal dielectric values of the tissue simulating liquids in the phantom and the tolerance of 5% are listed in 5.2

5.1. The composition of the tissue simulating liquid

| Ingredient (% Weight) | Water | NaCl | Polysorbate 20 | DGBE | 1,2 Propanediol | Triton X-100 |
|--------------------------|-------|------|----------------|-------|--------------------|-----------------|
| Frequency (MHz) | | | | | | |
| 835 Head | 50.36 | 1.25 | 48.39 | 0.0 | 0.0 | 0.0 |
| 835 Body | 54.00 | 1 | 0.0 | 15 | 0.0 | 30 |
| 1750 Head | 55.2 | 0.3 | 0.0 | 44.5 | 0.0 | 0.0 |
| 1750 Body | 70 | 1 | 0.0 | 9 | 0.0 | 20 |
| 1900 Head | 54.9 | 0.18 | 0.0 | 44.92 | 0.0 | 0.0 |
| 1900 Body | 70 | 1 | 0.0 | 9 | 0.0 | 20 |
| 2450 Head | 71.88 | 0.16 | 0.0 | 7.99 | 0.0 | 19.97 |
| 2450 Body | 70 | 1 | 0.0 | 9 | 0.0 | 20 |

5.2. Tissue Dielectric Parameters for Head and Body Phantoms

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

| Target Frequency (MHz) | head | | body | |
|---------------------------|--------------|----------------|--------------|----------------|
| | ϵ_r | σ (S/m) | ϵ_r | σ (S/m) |
| 300 | 45.3 | 0.87 | 58.2 | 0.92 |
| 450 | 43.5 | 0.87 | 56.7 | 0.94 |
| 835 | 41.5 | 0.90 | 55.2 | 0.97 |
| 900 | 41.5 | 0.97 | 55.0 | 1.05 |
| 915 | 41.5 | 1.01 | 55.0 | 1.06 |
| 1450 | 40.5 | 1.20 | 54.0 | 1.30 |
| 1610 | 40.3 | 1.29 | 53.8 | 1.40 |
| 1750 | 40.1 | 1.37 | 53.4 | 1.49 |
| 1800 – 2000 | 40.0 | 1.40 | 53.3 | 1.52 |
| 2450 | 39.2 | 1.80 | 52.7 | 1.95 |
| 3000 | 38.5 | 2.40 | 52.0 | 2.73 |

(ϵ_r = relative permittivity, σ = conductivity and $\rho = 1000$ kg/m³)

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5.3. Tissue Calibration Result

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

| Tissue Stimulant Measurement for 835MHz | | | | | |
|---|--------------|-------------------------------------|------------------------------------|------------------------|---------------|
| Head | Fr. (MHz) | Dielectric Parameters ($\pm 5\%$) | | Tissue Temp [°C] | Test time |
| | | ϵ_r 41.5 (39.425-43.575) | δ [s/m] 0.90(0.855-0.945) | | |
| | 824.2 | 42.15 | 0.88 | 22.5 | Aug. 06, 2018 |
| | 826.4 | 41.53 | 0.91 | | |
| | 835 | 41.00 | 0.92 | | |
| | 836.6 | 40.75 | 0.93 | | |
| | 846.6 | 40.26 | 0.93 | | |
| | 848.8 | 40.02 | 0.94 | | |
| Body | Fr. (MHz) | Dielectric Parameters ($\pm 5\%$) | | Tissue Temp [°C] | Test time |
| | | ϵ_r 55.20(52.44-57-96) | δ [s/m] 0.97(0.9215-1.0185) | | |
| | 824.2 | 56.08 | 0.94 | 22.7 | Aug. 06, 2018 |
| | 826.4 | 55.69 | 0.95 | | |
| | 835 | 55.15 | 0.95 | | |
| | 836.6 | 54.58 | 0.96 | | |
| | 846.6 | 54.03 | 0.97 | | |
| | 848.8 | 53.77 | 0.99 | | |

| Tissue Stimulant Measurement for 1750MHz | | | | | |
|--|--------------|-------------------------------------|------------------------------------|------------------------|---------------|
| Head | Fr. (MHz) | Dielectric Parameters ($\pm 5\%$) | | Tissue Temp [°C] | Test time |
| | | ϵ_r 40.10(38.095-42.105) | δ [s/m] 1.37(1.3015-1.439) | | |
| | 1712.5 | 41.55 | 1.33 | 21.4 | Aug. 05, 2018 |
| | 1732.5 | 41.03 | 1.35 | | |
| | 1750 | 40.71 | 1.38 | | |
| | 1752.5 | 40.26 | 1.41 | | |
| Body | Fr. (MHz) | Dielectric Parameters ($\pm 5\%$) | | Tissue Temp [°C] | Test time |
| | | ϵ_r 53.4(50.73-56.07) | δ [s/m] 1.49(1.4155-1.5645) | | |
| | 1712.5 | 55.06 | 1.45 | 21.6 | Aug. 05, 2018 |
| | 1732.5 | 54.71 | 1.48 | | |
| | 1750 | 54.26 | 1.50 | | |
| | 1752.5 | 53.85 | 1.52 | | |

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| Tissue Stimulant Measurement for 1900MHz | | | | | |
|--|--------------|-------------------------------------|---------------------------------|------------------------|-----------------|
| Head | Fr. (MHz) | Dielectric Parameters ($\pm 5\%$) | | Tissue Temp [°C] | Test time |
| | | ϵ_r 40.00(38.00-42.00) | δ [s/m]1.40(1.33-1.47) | | |
| | 1850.2 | 41.02 | 1.36 | 21.1 | Aug. 01,2018 |
| | 1852.4 | 40.76 | 1.38 | | |
| | 1880 | 40.35 | 1.40 | | |
| | 1900 | 39.94 | 1.41 | | |
| | 1907.6 | 39.61 | 1.43 | | |
| | 1909.8 | 39.17 | 1.44 | | |
| Body | Fr. (MHz) | Dielectric Parameters ($\pm 5\%$) | | Tissue Temp [°C] | Test time |
| | | ϵ_r 53.30(50.635-55.965) | δ [s/m]1.52(1.444-1.596) | | |
| | 1850.2 | 54.22 | 1.46 | 21.3 | Aug. 01,2018 |
| | 1852.4 | 53.81 | 1.48 | | |
| | 1880 | 53.37 | 1.50 | | |
| | 1900 | 52.88 | 1.51 | | |
| | 1907.6 | 52.40 | 1.53 | | |
| | 1909.8 | 51.96 | 1.55 | | |

| Tissue Stimulant Measurement for 2450MHz | | | | | |
|--|--------------|-------------------------------------|-----------------------------------|------------------------|-----------------|
| Head | Fr. (MHz) | Dielectric Parameters ($\pm 5\%$) | | Tissue Temp [°C] | Test time |
| | | ϵ_r 39.2(37.24-41.16) | δ [s/m]1.80(1.71-1.89) | | |
| | 2412 | 40.01 | 1.75 | 21.3 | Aug. 03,2018 |
| | 2437 | 39.43 | 1.78 | | |
| | 2450 | 38.81 | 1.82 | | |
| | 2462 | 38.19 | 1.84 | | |
| Body | Fr. (MHz) | Dielectric Parameters ($\pm 5\%$) | | Tissue Temp [°C] | Test time |
| | | ϵ_r 52.7(50.065-55.335) | δ [s/m]1.95(1.8525-2.0475) | | |
| | 2412 | 54.06 | 1.88 | 21.5 | Aug. 03,2018 |
| | 2437 | 53.47 | 1.90 | | |
| | 2450 | 52.94 | 1.92 | | |
| | 2462 | 52.25 | 1.95 | | |

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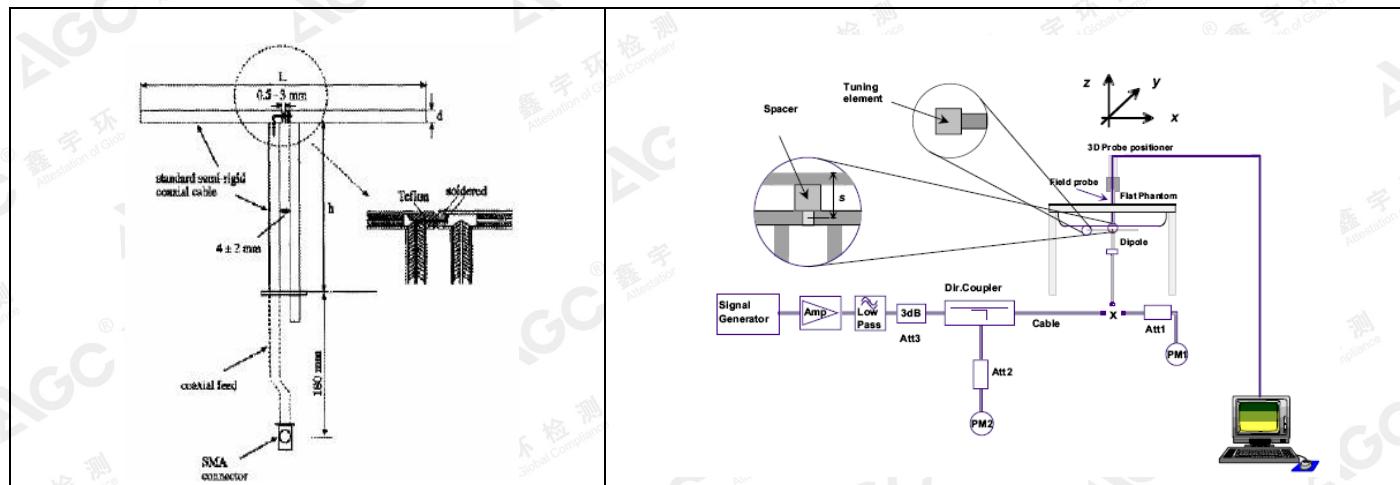
6. SAR SYSTEM CHECK PROCEDURE

6.1. SAR System Check Procedures

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

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

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

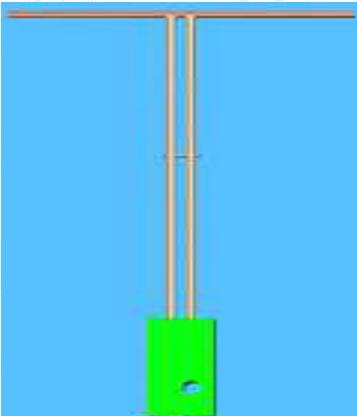


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6.2. SAR System Check

6.2.1. Dipoles

| | |
|---|---|
|  | <p>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.</p> |
|---|---|

| Frequency | L (mm) | | h (mm) | | d (mm) | | | |
|-----------|--------|--|--------|------|--------|--|--|--|
| 835MHz | 161.0 | | | 89.8 | | | | |
| 1800MHz | 71.6 | | | 41.7 | | | | |
| 1900MHz | 68 | | | 39.5 | | | | |
| 2450MHz | 51.5 | | | 30.4 | | | | |

6.2.2. System Check Result

| System Performance Check at 835MHz& 1800MHz &1900MHz &2450MHz for Head | | | | | | | | |
|--|--------------------|-------|---------------------------------|---------------|--------------------|-------|-------------------|--------------|
| Validation Kit: SN29/15 DIP 0G835-383& SN29/15 DIP 1G800-387&SN 29/15 DIP 1G900-389& SN 29/15DIP 2G450-393 | | | | | | | | |
| Frequency [MHz] | Target Value(W/Kg) | | Reference Result ($\pm 10\%$) | | Tested Value(W/Kg) | | Tissue Temp. [°C] | Test time |
| | 1g | 10g | 1g | 10g | 1g | 10g | | |
| 835 | 10.04 | 6.43 | 9.036-11.044 | 5.787 -7.073 | 10.05 | 6.30 | 22.5 | Aug. 06,2018 |
| 1800 | 37.43 | 19.88 | 33.687-41.173 | 17.892-21.868 | 40.56 | 20.89 | 21.4 | Aug. 05,2018 |
| 1900 | 41.44 | 21.33 | 37.296-45.584 | 19.197-23.463 | 40.79 | 20.47 | 21.1 | Aug. 01,2018 |
| 2450 | 54.53 | 24.30 | 49.077-59.983 | 21.87-26.730 | 51.62 | 23.22 | 21.3 | Aug. 03,2018 |
| System Performance Check at 835 MHz& 1800MHz &1900MHz & 2450MHz for Body | | | | | | | | |
| Frequency [MHz] | Target Value(W/Kg) | | Reference Result ($\pm 10\%$) | | Tested Value(W/Kg) | | Tissue Temp. [°C] | Test time |
| | 1g | 10g | 1g | 10g | 1g | 10g | | |
| 835 | 9.85 | 6.45 | 8.865-10.835 | 5.805-7.095 | 9.84 | 6.06 | 22.7 | Aug. 06,2018 |
| 1800 | 36.53 | 19.80 | 32.877-40.183 | 17.82-21.780 | 39.52 | 20.37 | 21.6 | Aug. 05,2018 |
| 1900 | 39.38 | 20.86 | 35.442-43.318 | 18.774-22.946 | 39.64 | 19.91 | 21.3 | Aug. 01,2018 |
| 2450 | 49.92 | 23.16 | 44.928-54.912 | 20.844-25.476 | 47.92 | 21.07 | 21.5 | Aug. 03,2018 |

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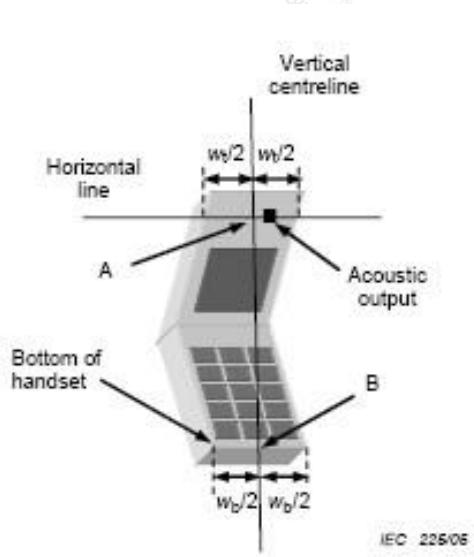
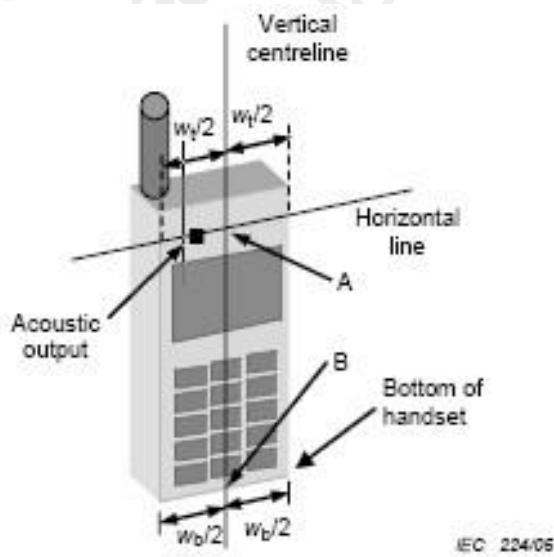


7. EUT TEST POSITION

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

7.1. Define Two Imaginary Lines on the Handset

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



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7.2. Cheek Position

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



7.3. Tilt Position

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

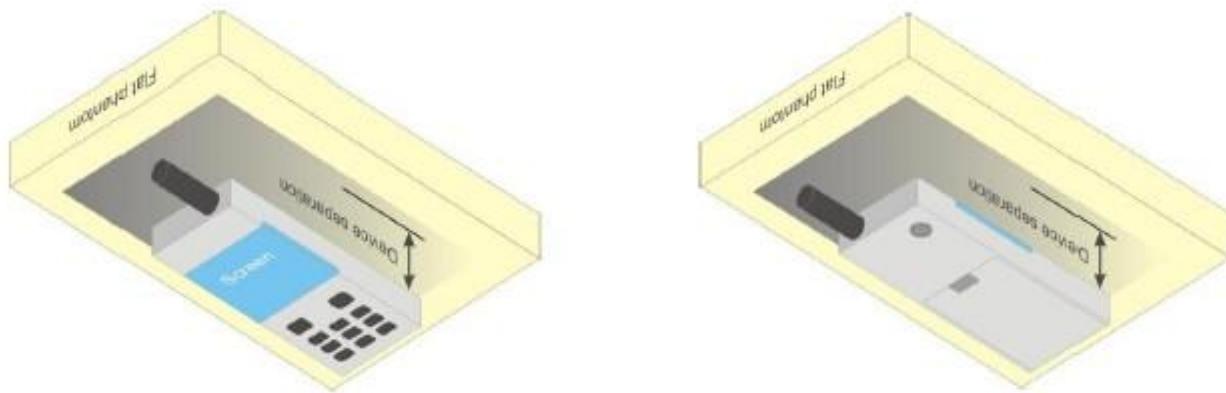


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7.4. Body Worn Position

- (1) To position the EUT parallel to the phantom surface.
- (2) To adjust the EUT parallel to the flat phantom.
- (3) To adjust the distance between the EUT surface and the flat phantom to **10mm**.



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8. SAR EXPOSURE LIMITS

SAR assessments have been made in line with the requirements of IEEE-1528, and comply with ANSI/IEEE C95.1-2005 "Uncontrolled Environments" limits. These limits apply to a location which is deemed as "Uncontrolled Environment" which can be described as a situation where the general public may be exposed to an RF source with no prior knowledge or control over their exposure.

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

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



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9. TEST FACILITY

| | |
|--------------------------------------|---|
| Test Site | Attestation of Global Compliance (Shenzhen) Co., Ltd |
| Location | 1-2F., Bldg.2, No.1-4, Chaxi Sanwei Technical Industrial Park, Gushu, Xixiang, Bao'an District B112-B113, Shenzhen 518012 |
| NVLAP Lab Code | 600153-0 |
| Designation Number | CN5028 |
| Test Firm Registration Number | 682566 |
| Description | Attestation of Global Compliance(Shenzhen) Co., Ltd is accredited by National Voluntary Laboratory Accreditation program, NVLAP Code 600153-0 |

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10. TEST EQUIPMENT LIST

| Equipment description | Manufacturer/ Model | Identification No. | Current calibration date | Next calibration date |
|-----------------------|-------------------------|------------------------|-----------------------------|-----------------------------|
| SAR Probe | MVG | SN 08/16 EPGO282 | Aug. 08,2017 | Aug. 07,2018 |
| Phantom | SATIMO | SN_4511_SAM90 | Validated. No cal required. | Validated. No cal required. |
| Liquid | SATIMO | - | Validated. No cal required. | Validated. No cal required. |
| Comm Tester | Agilent-8960 | GB46310822 | Mar. 01,2018 | Feb. 28,2019 |
| Multimeter | Keithley 2000 | 1188656 | Mar. 01,2018 | Feb. 28,2019 |
| Dipole | SATIMO SID835 | SN29/15 DIP 0G835-383 | July 05,2016 | July 04,2019 |
| Dipole | SATIMO SID1800 | SN29/15 DIP 1G800-387 | July 05,2016 | July 04,2019 |
| Dipole | SATIMO SID1900 | SN 29/15 DIP 1G900-389 | July 05,2016 | July 04,2019 |
| Dipole | SATIMO SID2450 | SN29/15 DIP 2G450-393 | July 05,2016 | July 04,2019 |
| Signal Generator | Agilent-E4438C | US41461365 | Mar. 01,2018 | Feb. 28,2019 |
| Vector Analyzer | Agilent / E4440A | US41421290 | Mar. 01,2018 | Feb. 28,2019 |
| Network Analyzer | Rhode & Schwarz ZVL6 | SN100132 | Mar. 01,2018 | Feb. 28,2019 |
| Attenuator | Warison /WATT-6SR1211 | N/A | N/A | N/A |
| Attenuator | Mini-circuits / VAT-10+ | N/A | N/A | N/A |
| Amplifier | EM30180 | SN060552 | Mar. 01,2018 | Feb. 28,2019 |
| Directional Couple | Werlatone/ C5571-10 | SN99463 | June. 12,2018 | June. 11,2019 |
| Directional Couple | Werlatone/ C6026-10 | SN99482 | June. 12,2018 | June. 11,2019 |
| Power Sensor | NRP-Z21 | 1137.6000.02 | Oct. 12,2017 | Oct. 11,2018 |
| Power Sensor | NRP-Z23 | US38261498 | Mar. 01,2018 | Feb. 28,2019 |
| Power Viewer | R&S | V2.3.1.0 | N/A | N/A |

Note: Per KDB 865664 Dipole SAR Validation, AGC Lab has adopted 3 years calibration intervals. On annual basis, every measurement dipole has been evaluated and is in compliance with the following criteria:

1. There is no physical damage on the dipole;
2. System validation with specific dipole is within 10% of calibrated value;
3. Return-loss is within 20% of calibrated measurement;
4. Impedance is within 5Ω of calibrated measurement.

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11. MEASUREMENT UNCERTAINTY

| Measurement uncertainty for Dipole averaged over 1 gram / 10 gram. | | | | | | | | | |
|---|-------|--------------|----------------|-------------|--------------|--------------|-------------------------|----------------|----|
| a | b | c | d | e f(d,k) | f | g | h cx ² /e | i cxg/e | k |
| Uncertainty Component | Sec. | Tol (± %) | Prob. Dist. | Div. | Ci (1g) | Ci (10g) | 1g Ui (±%) | 10g Ui (±%) | vi |
| Measurement System | | | | | | | | | |
| Probe calibration | E.2.1 | 5.831 | N | 1 | 1 | 1 | 5.83 | 5.83 | ∞ |
| Axial Isotropy | E.2.2 | 0.695 | R | $\sqrt{3}$ | $\sqrt{0.5}$ | $\sqrt{0.5}$ | 0.28 | 0.28 | ∞ |
| Hemispherical Isotropy | E.2.2 | 1.045 | R | $\sqrt{3}$ | $\sqrt{0.5}$ | $\sqrt{0.5}$ | 0.43 | 0.43 | ∞ |
| Boundary effect | E.2.3 | 1.0 | R | $\sqrt{3}$ | 1 | 1 | 0.58 | 0.58 | ∞ |
| Linearity | E.2.4 | 0.685 | R | $\sqrt{3}$ | 1 | 1 | 0.40 | 0.40 | ∞ |
| System detection limits | E.2.4 | 1.0 | R | $\sqrt{3}$ | 1 | 1 | 0.58 | 0.58 | ∞ |
| Modulation response | E.2.5 | 3.0 | R | $\sqrt{3}$ | 1 | 1 | 1.73 | 1.73 | ∞ |
| Readout Electronics | E.2.6 | 0.021 | N | 1 | 1 | 1 | 0.021 | 0.021 | ∞ |
| Response Time | E.2.7 | 0 | R | $\sqrt{3}$ | 1 | 1 | 0 | 0 | ∞ |
| Integration Time | E.2.8 | 1.4 | R | $\sqrt{3}$ | 1 | 1 | 0.81 | 0.81 | ∞ |
| 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 | ∞ |
| Test sample Related | | | | | | | | | |
| Test sample positioning | E.4.2 | 2.6 | N | 1 | 1 | 1 | 2.6 | 2.6 | ∞ |
| Device holder uncertainty | E.4.1 | 3 | N | 1 | 1 | 1 | 3 | 3 | ∞ |
| Output power variation—SAR drift measurement | E.2.9 | 5 | R | $\sqrt{3}$ | 1 | 1 | 2.89 | 2.89 | ∞ |
| SAR scaling | E.6.5 | 5 | R | $\sqrt{3}$ | 1 | 1 | 2.89 | 2.89 | ∞ |
| 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 | N | 1 | 0.78 | 0.71 | 3.12 | 2.84 | M |
| Liquid permittivity measurement | E.3.3 | 5 | N | 1 | 0.23 | 0.26 | 1.15 | 1.30 | M |
| Liquid conductivity—temperature uncertainty | E.3.4 | 2.5 | R | $\sqrt{3}$ | 0.78 | 0.71 | 1.13 | 1.02 | ∞ |
| Liquid permittivity—temperature uncertainty | E.3.4 | 2.5 | R | $\sqrt{3}$ | 0.23 | 0.26 | 0.33 | 0.38 | ∞ |
| Combined Standard Uncertainty | | | RSS | | | | 9.79 | 9.59 | |
| Expanded Uncertainty (95% Confidence interval) | | | K=2 | | | | 19.58 | 19.18 | |

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| System check uncertainty for Dipole averaged over 1 gram / 10 gram. | | | | | | | | | |
|---|---------|--------------|----------------|-------------|---------|----------|-------------------------|----------------|----|
| a | b | c | d | e f(d,k) | f | g | h cx ² /e | i cxg/e | k |
| 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 | 0.5 | N | 1 | 1 | 1 | 0.50 | 0.50 | ∞ |
| Axial Isotropy | E.2.2 | 0.695 | R | $\sqrt{3}$ | 0 | 0 | 0.00 | 0.00 | ∞ |
| Hemispherical Isotropy | E.2.2 | 1.045 | R | $\sqrt{3}$ | 0 | 0 | 0.00 | 0.00 | ∞ |
| Boundary effect | E.2.3 | 1.0 | R | $\sqrt{3}$ | 0 | 0 | 0.00 | 0.00 | ∞ |
| Linearity | E.2.4 | 0.685 | 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 | E.2.5 | 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 | N | 1 | 1 | 1 | 2 | 2 | ∞ |
| Input power and SAR drift measurement | 8,E.6.4 | 5 | R | $\sqrt{3}$ | 1 | 1 | 2.89 | 2.89 | ∞ |
| Dipole axis to liquid distance | 8,E.6.6 | 2 | R | $\sqrt{3}$ | 1 | 1 | 1.15 | 1.15 | ∞ |
| Phantom and tissue parameters | | | | | | | | | |
| Phantom shell uncertainty—shape, thickness, and permittivity | E.3.1 | 4 | R | $\sqrt{3}$ | 1 | 1 | 2.31 | 2.31 | ∞ |
| Uncertainty in SAR correction for deviations in permittivity and conductivity | E.3.2 | 1.9 | N | 1 | 1 | 0.84 | 1.90 | 1.60 | ∞ |
| Liquid conductivity measurement | E.3.3 | 4 | N | 1 | 0.78 | 0.71 | 3.12 | 2.84 | M |
| Liquid permittivity measurement | E.3.3 | 5 | N | 1 | 0.23 | 0.26 | 1.15 | 1.30 | M |
| Liquid conductivity—temperature uncertainty | E.3.4 | 2.5 | R | $\sqrt{3}$ | 0.78 | 0.71 | 1.13 | 1.02 | ∞ |
| Liquid permittivity—temperature uncertainty | E.3.4 | 2.5 | R | $\sqrt{3}$ | 0.23 | 0.26 | 0.33 | 0.38 | ∞ |
| Combined Standard Uncertainty | | | RSS | | | | 5.564 | 5.205 | |
| Expanded Uncertainty (95% Confidence interval) | | | K=2 | | | | 11.128 | 10.410 | |

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| System Validation uncertainty for Dipole averaged over 1 gram / 10 gram. | | | | | | | | | |
|---|----------|-------------|----------------|-------------|---------|----------|-------------------------|-------------------------|----|
| a | b | c | d | e f(d,k) | f | g | h cx ² /e | i cx ² /e | k |
| Uncertainty Component | Sec. | Tol (±%) | Prob. Dist. | Div. | Ci (1g) | Ci (10g) | 1g Ui (±%) | 10g Ui (±%) | vi |
| Measurement System | | | | | | | | | |
| Probe calibration | E.2.1 | 5.831 | N | 1 | 1 | 1 | 5.83 | 5.83 | ∞ |
| Axial Isotropy | E.2.2 | 0.695 | R | $\sqrt{3}$ | 1 | 1 | 0.40 | 0.40 | ∞ |
| Hemispherical Isotropy | E.2.2 | 1.045 | R | $\sqrt{3}$ | 0 | 0 | 0.00 | 0.00 | ∞ |
| Boundary effect | E.2.3 | 1.0 | R | $\sqrt{3}$ | 1 | 1 | 0.58 | 0.58 | ∞ |
| Linearity | E.2.4 | 0.685 | R | $\sqrt{3}$ | 1 | 1 | 0.40 | 0.40 | ∞ |
| System detection limits | E.2.4 | 1.0 | R | $\sqrt{3}$ | 1 | 1 | 0.58 | 0.58 | ∞ |
| Modulation response | E.2.5 | 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 check source (dipole) | | | | | | | | | |
| 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, E.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 | 4.0 | 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 measurement | E.3.3 | 4.0 | N | 1 | 0.78 | 0.71 | 3.12 | 2.84 | M |
| Liquid permittivity measurement | E.3.3 | 5.0 | N | 1 | 0.23 | 0.26 | 1.15 | 1.30 | M |
| Liquid conductivity—temperature uncertainty | E.3.4 | 2.5 | R | $\sqrt{3}$ | 0.78 | 0.71 | 1.13 | 1.02 | ∞ |
| Liquid permittivity—temperature uncertainty | E.3.4 | 2.5 | R | $\sqrt{3}$ | 0.23 | 0.26 | 0.33 | 0.38 | ∞ |
| Combined Standard Uncertainty | | | RSS | | | | 9.718 | 9.517 | |
| Expanded Uncertainty (95% Confidence interval) | | | K=2 | | | | 19.437 | 19.035 | |

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12. CONDUCTED POWER MEASUREMENT

GSM BAND

| Mode | Frequency(MHz) | Avg. Burst Power(dBm) | Duty cycle Factor(dBm) | Frame Power(dBm) |
|-----------------------|----------------|-----------------------|------------------------|------------------|
| Maximum Power <1> | | | | |
| GSM 850 | 824.2 | 31.45 | -9 | 22.45 |
| | 836.6 | 31.36 | -9 | 22.36 |
| | 848.8 | 31.29 | -9 | 22.29 |
| GPRS 850 (1 Slot) | 824.2 | 31.11 | -9 | 22.11 |
| | 836.6 | 31.15 | -9 | 22.15 |
| | 848.8 | 31.19 | -9 | 22.19 |
| GPRS 850 (2 Slot) | 824.2 | 28.49 | -6 | 22.49 |
| | 836.6 | 28.52 | -6 | 22.52 |
| | 848.8 | 28.28 | -6 | 22.28 |
| GPRS 850 (3 Slot) | 824.2 | 26.46 | -4.26 | 22.20 |
| | 836.6 | 26.28 | -4.26 | 22.02 |
| | 848.8 | 26.38 | -4.26 | 22.12 |
| GPRS 850 (4 Slot) | 824.2 | 25.43 | -3 | 22.43 |
| | 836.6 | 25.47 | -3 | 22.47 |
| | 848.8 | 25.39 | -3 | 22.39 |
| EGPRS 850 (1 Slot) | 824.2 | 25.55 | -9 | 16.55 |
| | 836.6 | 25.49 | -9 | 16.49 |
| | 848.8 | 25.37 | -9 | 16.37 |
| EGPRS 850 (2 Slot) | 824.2 | 22.11 | -6 | 16.11 |
| | 836.6 | 22.13 | -6 | 16.13 |
| | 848.8 | 22.24 | -6 | 16.24 |
| EGPRS 850 (3 Slot) | 824.2 | 21.15 | -4.26 | 16.89 |
| | 836.6 | 21.16 | -4.26 | 16.90 |
| | 848.8 | 21.22 | -4.26 | 16.96 |
| EGPRS 850 (4 Slot) | 824.2 | 19.42 | -3 | 16.42 |
| | 836.6 | 19.26 | -3 | 16.26 |
| | 848.8 | 19.37 | -3 | 16.37 |

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| Mode | Frequency(MHz) | Avg. Burst Power(dBm) | Duty cycle Factor(dBm) | Frame Power(dBm) |
|----------------------|----------------|-----------------------|------------------------|------------------|
| Maximum Power <2> | | | | |
| GSM 850 | 824.2 | 30.56 | -9 | 21.56 |
| | 836.6 | 31.12 | -9 | 22.12 |
| | 848.8 | 30.66 | -9 | 21.66 |
| GPRS 850 (1 Slot) | 824.2 | 30.36 | -9 | 21.36 |
| | 836.6 | 30.41 | -9 | 21.41 |
| | 848.8 | 30.25 | -9 | 21.25 |
| GPRS 850 (2 Slot) | 824.2 | 28.25 | -6 | 22.25 |
| | 836.6 | 28.36 | -6 | 22.36 |
| | 848.8 | 28.12 | -6 | 22.12 |
| GPRS 850 (3 Slot) | 824.2 | 26.01 | -4.26 | 21.75 |
| | 836.6 | 26.02 | -4.26 | 21.76 |
| | 848.8 | 26.11 | -4.26 | 21.85 |
| GPRS 850 (4 Slot) | 824.2 | 25.25 | -3 | 22.25 |
| | 836.6 | 25.12 | -3 | 22.12 |
| | 848.8 | 25.02 | -3 | 22.02 |

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GSM BAND CONTINUE

| Mode | Frequency(MHz) | Avg. Burst Power(dBm) | Duty cycle Factor(dBm) | Frame Power(dBm) |
|-----------------------|----------------|-----------------------|------------------------|------------------|
| Maximum Power <1> | | | | |
| PCS1900 | 1850.2 | 28.69 | -9 | 19.69 |
| | 1880 | 28.54 | -9 | 19.54 |
| | 1909.8 | 28.65 | -9 | 19.65 |
| GPRS1900 (1 Slot) | 1850.2 | 27.56 | -9 | 18.56 |
| | 1880 | 27.47 | -9 | 18.47 |
| | 1909.8 | 27.61 | -9 | 18.61 |
| GPRS1900 (2 Slot) | 1850.2 | 24.25 | -6 | 18.25 |
| | 1880 | 24.36 | -6 | 18.36 |
| | 1909.8 | 24.47 | -6 | 18.47 |
| GPRS1900 (3 Slot) | 1850.2 | 23.42 | -4.26 | 19.16 |
| | 1880 | 23.38 | -4.26 | 19.12 |
| | 1909.8 | 23.42 | -4.26 | 19.16 |
| GPRS1900 (4 Slot) | 1850.2 | 22.45 | -3 | 19.45 |
| | 1880 | 22.53 | -3 | 19.53 |
| | 1909.8 | 22.57 | -3 | 19.57 |
| EGPRS1900 (1 Slot) | 1850.2 | 24.23 | -9 | 15.23 |
| | 1880 | 24.37 | -9 | 15.37 |
| | 1909.8 | 24.43 | -9 | 15.43 |
| EGPRS1900 (2 Slot) | 1850.2 | 21.42 | -6 | 15.42 |
| | 1880 | 21.43 | -6 | 15.43 |
| | 1909.8 | 21.39 | -6 | 15.39 |
| EGPRS1900 (3 Slot) | 1850.2 | 21.19 | -4.26 | 16.93 |
| | 1880 | 21.11 | -4.26 | 16.85 |
| | 1909.8 | 21.21 | -4.26 | 16.95 |
| EGPRS1900 (4 Slot) | 1850.2 | 20.27 | -3 | 17.27 |
| | 1880 | 20.32 | -3 | 17.32 |
| | 1909.8 | 20.43 | -3 | 17.43 |

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| Mode | Frequency(MHz) | Avg. Burst Power(dBm) | Duty cycle Factor(dBm) | Frame Power(dBm) |
|----------------------|----------------|-----------------------|------------------------|------------------|
| Maximum Power <2> | | | | |
| PCS1900 | 1850.2 | 28.13 | -9 | 19.13 |
| | 1880 | 27.95 | -9 | 18.95 |
| | 1909.8 | 27.43 | -9 | 18.43 |
| GPRS1900 (1 Slot) | 1850.2 | 27.02 | -9 | 18.02 |
| | 1880 | 27.11 | -9 | 18.11 |
| | 1909.8 | 27.23 | -9 | 18.23 |
| GPRS1900 (2 Slot) | 1850.2 | 23.01 | -6 | 17.01 |
| | 1880 | 23.12 | -6 | 17.12 |
| | 1909.8 | 23.22 | -6 | 17.22 |
| GPRS1900 (3 Slot) | 1850.2 | 23.25 | -4.26 | 18.99 |
| | 1880 | 23.12 | -4.26 | 18.86 |
| | 1909.8 | 23.25 | -4.26 | 18.99 |
| GPRS1900 (4 Slot) | 1850.2 | 22.12 | -3 | 19.12 |
| | 1880 | 22.17 | -3 | 19.17 |
| | 1909.8 | 22.39 | -3 | 19.39 |

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:

$$\text{Frame Power} = \text{Max burst power (1 Up Slot)} - 9 \text{ dB}$$

$$\text{Frame Power} = \text{Max burst power (2 Up Slot)} - 6 \text{ dB}$$

$$\text{Frame Power} = \text{Max burst power (3 Up Slot)} - 4.26 \text{ dB}$$

$$\text{Frame Power} = \text{Max burst power (4 Up Slot)} - 3 \text{ dB}$$

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UMTS BAND
HSDPA Setup Configuration:

- The EUT was connected to Base Station Agilent E5515C referred to the Setup Configuration.
- The RF path losses were compensated into the measurements.
- A call was established between EUT and Based Station with following setting:
 - (1) Set Gain Factors(β_c and β_d) parameters set according to each
 - (2) Set RMC 12.2Kbps+HSDPA mode.
 - (3) Set Cell Power=-86dBm
 - (4) Set HS-DSCH Configuration Type to FRC (H-set 1, QPSK)
 - (5) Select HSDPA Uplink Parameters
 - (6) Set Delta ACK, Delta NACK and Delta CQI=8
 - (7) Set Ack - Nack Repetition Factor to 3
 - (8) Set CQI Feedback Cycle (k) to 4ms
 - (9) Set CQI Repetition Factor to 2
 - (10) Power Ctrl Mode=All Up bits
- The transmitted maximum output power was recorded.

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

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

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

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

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

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

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HSUPA Setup Configuration:

- The EUT was connected to Base Station Agilent E5515C referred to the Setup Configuration.
- The RF path losses were compensated into the measurements.
- A call was established between EUT and Base Station with following setting * :

 - (1) Call Configs = 5.2B, 5.9B, 5.10B, and 5.13.2B with QPSK
 - (2) Set the Gain Factors (β_c and β_d) and parameters (AG Index) were set according to each specific sub-test in the following table, C11.1.3, quoted from the TS 34.121
 - (3) Set Cell Power = -86 dBm
 - (4) Set Channel Type = 12.2k + HSPA
 - (5) Set UE Target Power
 - (6) Power Ctrl Mode= Alternating bits
 - (7) Set and observe the E-TFCI
 - (8) Confirm that E-TFCI is equal to the target E-TFCI of 75 for sub-test 1, and other subtest's E-TFCI

- The transmitted maximum output power was recorded.

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

| Sub-test | β_c | β_d | β_d (SF) | β_c/β_d | β_{HS} (Note 1) | β_{EC} | β_{ED} (Note 4) (Note 5) | β_{ED} (SF) | β_{ED} (Code s) | CM (dB) (Note 2) | MPR (dB) (Note 2) (Note 6) | AG Index (Note 5) | E-TF CI |
|----------|-------------------|-------------------|--------------------|-------------------|--------------------------|--------------|--|-----------------------|--------------------------|------------------------|-------------------------------------|-------------------------|------------|
| 1 | 11/15 (Note 3) | 15/15 (Note 3) | 64 | 11/15 (Note 3) | 22/15 | 209/225 | 1309/225 | 4 | 1 | 1.0 | 0.0 | 20 | 75 |
| 2 | 6/15 | 15/15 | 64 | 6/15 | 12/15 | 12/15 | 94/75 | 4 | 1 | 3.0 | 2.0 | 12 | 67 |
| 3 | 15/15 | 9/15 | 64 | 15/9 | 30/15 | 30/15 | $\beta_{ED1}:$ 47/15 $\beta_{ED2}:$ 47/15 | 4 | 2 | 2.0 | 1.0 | 15 | 92 |
| 4 | 2/15 | 15/15 | 64 | 2/15 | 4/15 | 2/15 | 56/75 | 4 | 1 | 3.0 | 2.0 | 17 | 71 |
| 5 | 15/15 | 0 | - | - | 5/15 | 5/15 | 47/15 | 4 | 1 | 1.0 | 0.0 | 12 | 67 |

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

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

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

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

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

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

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UMTS BAND II

| Mode | Frequency (MHz) | Avg. Burst Power (dBm) |
|--------------------|--------------------|---------------------------|
| WCDMA 1900 RMC | 1852.4 | 22.40 |
| | 1880 | 21.96 |
| | 1907.6 | 22.06 |
| WCDMA 1900 AMR | 1852.4 | 21.98 |
| | 1880 | 21.65 |
| | 1907.6 | 21.92 |
| HSDPA Subtest 1 | 1852.4 | 20.96 |
| | 1880 | 20.72 |
| | 1907.6 | 21.16 |
| HSDPA Subtest 2 | 1852.4 | 19.88 |
| | 1880 | 20.00 |
| | 1907.6 | 20.67 |
| HSDPA Subtest 3 | 1852.4 | 20.09 |
| | 1880 | 20.28 |
| | 1907.6 | 19.97 |
| HSDPA Subtest 4 | 1852.4 | 20.37 |
| | 1880 | 20.60 |
| | 1907.6 | 20.48 |
| HSUPA Subtest 1 | 1852.4 | 20.58 |
| | 1880 | 20.36 |
| | 1907.6 | 20.19 |
| HSUPA Subtest 2 | 1852.4 | 21.19 |
| | 1880 | 21.36 |
| | 1907.6 | 21.27 |
| HSUPA Subtest 3 | 1852.4 | 21.56 |
| | 1880 | 21.43 |
| | 1907.6 | 21.20 |
| HSUPA Subtest 4 | 1852.4 | 21.46 |
| | 1880 | 22.30 |
| | 1907.6 | 22.06 |
| HSUPA Subtest 5 | 1852.4 | 21.13 |
| | 1880 | 21.69 |
| | 1907.6 | 21.93 |

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UMTS BAND IV

| Mode | Frequency (MHz) | Avg. Burst Power (dBm) |
|--------------------|--------------------|---------------------------|
| WCDMA 1700 RMC | 1712.5 | 21.43 |
| | 1732.5 | 21.55 |
| | 1752.5 | 21.26 |
| WCDMA 1700 AMR | 1712.5 | 20.95 |
| | 1732.5 | 21.24 |
| | 1752.5 | 20.93 |
| HSDPA Subtest 1 | 1712.5 | 20.47 |
| | 1732.5 | 20.29 |
| | 1752.5 | 20.00 |
| HSDPA Subtest 2 | 1712.5 | 19.85 |
| | 1732.5 | 19.98 |
| | 1752.5 | 20.07 |
| HSDPA Subtest 3 | 1712.5 | 19.68 |
| | 1732.5 | 19.95 |
| | 1752.5 | 19.90 |
| HSDPA Subtest 4 | 1712.5 | 20.41 |
| | 1732.5 | 20.42 |
| | 1752.5 | 20.34 |
| HSUPA Subtest 1 | 1712.5 | 20.43 |
| | 1732.5 | 20.39 |
| | 1752.5 | 20.13 |
| HSUPA Subtest 2 | 1712.5 | 20.90 |
| | 1732.5 | 20.23 |
| | 1752.5 | 20.42 |
| HSUPA Subtest 3 | 1712.5 | 20.83 |
| | 1732.5 | 20.66 |
| | 1752.5 | 20.32 |
| HSUPA Subtest 4 | 1712.5 | 19.93 |
| | 1732.5 | 20.20 |
| | 1752.5 | 20.08 |
| HSUPA Subtest 5 | 1712.5 | 20.46 |
| | 1732.5 | 20.53 |
| | 1752.5 | 20.34 |

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UMTS BAND V

| Mode | Frequency (MHz) | Avg. Burst Power (dBm) |
|--------------------|--------------------|---------------------------|
| WCDMA 850 RMC | 826.4 | 21.44 |
| | 836.6 | 20.73 |
| | 846.6 | 21.26 |
| WCDMA 850 AMR | 826.4 | 20.92 |
| | 836.6 | 20.95 |
| | 846.6 | 21.00 |
| HSDPA Subtest 1 | 826.4 | 19.85 |
| | 836.6 | 19.54 |
| | 846.6 | 19.83 |
| HSDPA Subtest 2 | 826.4 | 19.73 |
| | 836.6 | 19.58 |
| | 846.6 | 20.01 |
| HSDPA Subtest 3 | 826.4 | 20.43 |
| | 836.6 | 19.84 |
| | 846.6 | 20.33 |
| HSDPA Subtest 4 | 826.4 | 21.01 |
| | 836.6 | 20.69 |
| | 846.6 | 20.98 |
| HSUPA Subtest 1 | 826.4 | 21.04 |
| | 836.6 | 21.18 |
| | 846.6 | 21.11 |
| HSUPA Subtest 2 | 826.4 | 21.00 |
| | 836.6 | 21.25 |
| | 846.6 | 21.07 |
| HSUPA Subtest 3 | 826.4 | 20.59 |
| | 836.6 | 20.80 |
| | 846.6 | 20.92 |
| HSUPA Subtest 4 | 826.4 | 20.96 |
| | 836.6 | 20.57 |
| | 846.6 | 21.06 |
| HSUPA Subtest 5 | 826.4 | 20.90 |
| | 836.6 | 20.78 |
| | 846.6 | 20.48 |

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

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

| UE Transmit Channel Configuration | CM(db) | MPR(db) |
|--|-----------|-------------|
| For all combinations of ,DPDCH,DPCCH HS-DPDCH,E-DPDCH and E-DPCCH | 0≤ CM≤3.5 | MAX(CM-1,0) |

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

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

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

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

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



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WIFI

| Mode | Data Rate (Mbps) | Channel | Frequency(MHz) | Avg. Burst Power(dBm) |
|-------------|------------------|---------|----------------|-----------------------|
| 802.11b | 1 | 01 | 2412 | 15.69 |
| | | 06 | 2437 | 15.70 |
| | | 11 | 2462 | 15.61 |
| 802.11g | 6 | 01 | 2412 | 11.95 |
| | | 06 | 2437 | 13.77 |
| | | 11 | 2462 | 13.76 |
| 802.11n(20) | 6.5 | 01 | 2412 | 11.84 |
| | | 06 | 2437 | 13.74 |
| | | 11 | 2462 | 13.64 |
| 802.11n(40) | 13.5 | 03 | 2422 | 13.09 |
| | | 06 | 2437 | 13.29 |
| | | 09 | 2452 | 13.11 |

Bluetooth_BR/EDR

| Modulation | Channel | Frequency(MHz) | Peak Power (dBm) |
|----------------|---------|----------------|------------------|
| GFSK | 0 | 2402 | 5.372 |
| | 39 | 2441 | 5.444 |
| | 78 | 2480 | 5.282 |
| $\pi/4$ -DQPSK | 0 | 2402 | 4.848 |
| | 39 | 2441 | 4.915 |
| | 78 | 2480 | 4.746 |
| 8-DPSK | 0 | 2402 | 4.431 |
| | 39 | 2441 | 4.475 |
| | 78 | 2480 | 4.331 |

Bluetooth_BLE

| Modulation | Channel | Frequency(MHz) | Peak Power (dBm) |
|------------|---------|----------------|------------------|
| GFSK | 0 | 2402 | -2.540 |
| | 19 | 2440 | -2.445 |
| | 39 | 2480 | -2.631 |

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13. TEST RESULTS

13.1. SAR Test Results Summary

13.1.1. Test position and configuration

Head SAR was performed with the device configured in the positions according to IEEE 1528-2013, Body-worn SAR was performed with the device 5mm from the phantom, 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 $\leq 0.8 \text{ W/kg}$, testing for low and high channel is optional.
2. Per KDB 865664 D01 v01r04,for each frequency band, if the measured SAR is $\geq 0.8 \text{ W/Kg}$, testing for repeated SAR measurement is required , that the highest measured SAR is only to be tested. When the SAR results are near the limit, the following procedures are required for each device to verify these types of SAR measurement related variation concerns by repeating the highest measured SAR configuration in each frequency band.
 - (1) When the original highest measured SAR is $\geq 0.8 \text{ W/Kg}$, repeat that measurement once.
 - (2) Perform a second repeated measurement only if the ratio of largest to smallest SAR for the original and first repeated measurements is > 1.20 or when the original or repeated measurement is $\geq 1.45 \text{ W/Kg}$.
 - (3) Perform a third repeated measurement only if the original, first and second repeated measurement is $\geq 1.5 \text{ W/Kg}$ 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 $\leq 1.2 \text{ W/Kg}$, SAR testing with a headset connected is not required.
5. Per KDB 248227 D01v02r02,for 2.4GHz 802.11g/n SAR testing is not required when the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is $\leq 1.2 \text{ W/kg}$.
6. 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.
7. Maximum Scaling SAR in order to calculate the Maximum SAR values to test under the standard Peak Power, Calculation method is as follows:
Maximum Scaling SAR = tested SAR (Max.) \times [maximum turn-up power (mw)/ maximum measurement output power(mw)]
8. Proximity sensor, just for avoiding the wrong operation in the phone screen when call, and has no influence on output power or SAR result

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13.1.3. Test Result

| SAR MEASUREMENT | | | | | | | | | | | | | | | | | |
|--|-------------|-----------------------------|-----------|--------------------|-----------------|--------------------------|--------------------------|-------------------|--------------|--|--|--|--|--|--|--|--|
| Depth of Liquid (cm):>15 | | Relative Humidity (%): 64.2 | | | | | | | | | | | | | | | |
| Product: Smart Phone | | | | | | | | | | | | | | | | | |
| Test Mode: GSM850 with GMSK modulation | | | | | | | | | | | | | | | | | |
| Position | Mode | Ch. | Fr. (MHz) | Power Drift (<±5%) | SAR (1g) (W/kg) | Max. Tune-up Power (dBm) | Meas. output Power (dBm) | Scaled SAR (W/Kg) | Limit (W/kg) | | | | | | | | |
| SIM 1 Card | | | | | | | | | | | | | | | | | |
| Left Cheek | voice | 190 | 836.6 | -0.02 | 0.311 | 31.50 | 31.36 | 0.321 | 1.6 | | | | | | | | |
| Left Tilt | voice | 190 | 836.6 | 0.26 | 0.169 | 31.50 | 31.36 | 0.175 | 1.6 | | | | | | | | |
| Right Cheek | voice | 190 | 836.6 | -1.33 | 0.271 | 31.50 | 31.36 | 0.280 | 1.6 | | | | | | | | |
| Right Tilt | voice | 190 | 836.6 | 0.02 | 0.185 | 31.50 | 31.36 | 0.191 | 1.6 | | | | | | | | |
| Body back | voice | 190 | 836.6 | 0.35 | 0.273 | 31.50 | 31.36 | 0.282 | 1.6 | | | | | | | | |
| Body front | voice | 190 | 836.6 | -1.55 | 0.280 | 31.50 | 31.36 | 0.289 | 1.6 | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| Body back | GPRS-2 slot | 190 | 836.6 | 0.56 | 0.573 | 28.60 | 28.52 | 0.584 | 1.6 | | | | | | | | |
| Body front | GPRS-2 slot | 190 | 836.6 | -0.36 | 0.364 | 28.60 | 28.52 | 0.371 | 1.6 | | | | | | | | |
| Edge 2(Right) | GPRS-2 slot | 190 | 836.6 | 0.15 | 0.197 | 28.60 | 28.52 | 0.201 | 1.6 | | | | | | | | |
| Edge 3(Bottom) | GPRS-2 slot | 190 | 836.6 | 1.22 | 0.074 | 28.60 | 28.52 | 0.075 | 1.6 | | | | | | | | |
| Edge 4(Left) | GPRS-2 slot | 190 | 836.6 | -0.63 | 0.273 | 28.60 | 28.52 | 0.278 | 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 is 10mm of all above table.

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| SAR MEASUREMENT | | | | | | | | | | | | | | | | |
|---|-------------|-----|-----------------------------|----------------------------------|-----------------------|-----------------------------------|-----------------------------------|-------------------------|-----------------|--|--|--|--|--|--|--|
| Depth of Liquid (cm):>15 | | | Relative Humidity (%): 50.6 | | | | | | | | | | | | | |
| Product: Smart Phone | | | | | | | | | | | | | | | | |
| Test Mode: PCS1900 with GMSK modulation | | | | | | | | | | | | | | | | |
| Position | Mode | Ch. | Fr. (MHz) | Power Drift ($<\pm 5\%$) | 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 | -0.56 | 0.151 | 28.70 | 28.54 | 0.157 | 1.6 | | | | | | | |
| Left Tilt | voice | 661 | 1880.0 | 0.32 | 0.081 | 28.70 | 28.54 | 0.084 | 1.6 | | | | | | | |
| Right Cheek | voice | 661 | 1880.0 | -0.48 | 0.286 | 28.70 | 28.54 | 0.297 | 1.6 | | | | | | | |
| Right Tilt | voice | 661 | 1880.0 | 0.15 | 0.083 | 28.70 | 28.54 | 0.086 | 1.6 | | | | | | | |
| Body back | voice | 661 | 1880.0 | 0.02 | 0.520 | 28.70 | 28.54 | 0.540 | 1.6 | | | | | | | |
| Body front | voice | 661 | 1880.0 | 0.63 | 0.314 | 28.70 | 28.54 | 0.326 | 1.6 | | | | | | | |
| | | | | | | | | | | | | | | | | |
| Body back | GPRS-4 slot | 512 | 1850.2 | -0.10 | 0.996 | 22.60 | 22.45 | 1.031 | 1.6 | | | | | | | |
| Body back | GPRS-4 slot | 661 | 1880.0 | 0.23 | 0.864 | 22.60 | 22.53 | 0.878 | 1.6 | | | | | | | |
| Body back | GPRS-4 slot | 810 | 1909.8 | -0.02 | 0.818 | 22.60 | 22.57 | 0.824 | 1.6 | | | | | | | |
| Body front | GPRS-4 slot | 661 | 1880.0 | 0.15 | 0.520 | 22.60 | 22.53 | 0.528 | 1.6 | | | | | | | |
| Edge 2(Right) | GPRS-4 slot | 661 | 1880.0 | 0.23 | 0.335 | 22.60 | 22.53 | 0.340 | 1.6 | | | | | | | |
| Edge 3(Bottom) | GPRS-4 slot | 661 | 1880.0 | 0.63 | 0.423 | 22.60 | 22.53 | 0.430 | 1.6 | | | | | | | |
| Edge 4(Left) | GPRS-4 slot | 661 | 1880.0 | -0.37 | 0.137 | 22.60 | 22.53 | 0.139 | 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 is 10mm of all above table.

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| SAR MEASUREMENT | | | | | | | | | | | | | | | |
|---|--------------|------|-----------|-----------------------------|-----------------|--------------------------|--------------------------|-------------------|--------------|--|--|--|--|--|--|
| Depth of Liquid (cm):>15 | | | | Relative Humidity (%): 50.6 | | | | | | | | | | | |
| Product: Smart Phone | | | | | | | | | | | | | | | |
| Test Mode: WCDMA Band II with QPSK modulation | | | | | | | | | | | | | | | |
| Position | Mode | Ch. | Fr. (MHz) | Power Drift (<±5%) | SAR (1g) (W/kg) | Max. Tune-up Power (dBm) | Meas. output Power (dBm) | Scaled SAR (W/Kg) | Limit (W/kg) | | | | | | |
| Left Cheek | RMC 12.2kbps | 9400 | 1880 | -0.56 | 0.213 | 22.40 | 21.96 | 0.236 | 1.6 | | | | | | |
| Left Tilt | RMC 12.2kbps | 9400 | 1880 | 0.02 | 0.143 | 22.40 | 21.96 | 0.158 | 1.6 | | | | | | |
| Right Cheek | RMC 12.2kbps | 9400 | 1880 | 1.25 | 0.382 | 22.40 | 21.96 | 0.423 | 1.6 | | | | | | |
| Right Tilt | RMC 12.2kbps | 9400 | 1880 | -0.15 | 0.135 | 22.40 | 21.96 | 0.149 | 1.6 | | | | | | |
| Body back | RMC 12.2kbps | 9262 | 1852.4 | 0.26 | 0.757 | 22.40 | 22.40 | 0.757 | 1.6 | | | | | | |
| Body back | RMC 12.2kbps | 9400 | 1880 | 0.36 | 1.029 | 22.40 | 21.96 | 1.139 | 1.6 | | | | | | |
| Body back | RMC 12.2kbps | 9538 | 1907.6 | 0.48 | 0.785 | 22.40 | 22.06 | 0.849 | 1.6 | | | | | | |
| Body front | RMC 12.2kbps | 9400 | 1880 | -0.89 | 0.584 | 22.40 | 21.96 | 0.646 | 1.6 | | | | | | |
| Edge 2(Right) | RMC 12.2kbps | 9400 | 1880 | 0.64 | 0.489 | 22.40 | 21.96 | 0.541 | 1.6 | | | | | | |
| Edge 3(Bottom) | RMC 12.2kbps | 9400 | 1880 | 0.14 | 0.536 | 22.40 | 21.96 | 0.593 | 1.6 | | | | | | |
| Edge 4(Left) | RMC 12.2kbps | 9400 | 1880 | -0.69 | 0.098 | 22.40 | 21.96 | 0.108 | 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 is 10mm of all above table.

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| SAR MEASUREMENT | | | | | | | | | | | | | | | | |
|---|--------------|------|-----------------------------|--------------------|-----------------|--------------------------|--------------------------|-------------------|--------------|--|--|--|--|--|--|--|
| Depth of Liquid (cm):>15 | | | Relative Humidity (%): 53.2 | | | | | | | | | | | | | |
| Product: Smart Phone | | | | | | | | | | | | | | | | |
| 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 | 1732.5 | -3.20 | 0.313 | 21.70 | 21.55 | 0.324 | 1.6 | | | | | | | |
| Left Tilt | RMC 12.2kbps | 8662 | 1732.5 | 0.25 | 0.083 | 21.70 | 21.55 | 0.086 | 1.6 | | | | | | | |
| Right Cheek | RMC 12.2kbps | 8662 | 1732.5 | -0.35 | 0.345 | 21.70 | 21.55 | 0.357 | 1.6 | | | | | | | |
| Right Tilt | RMC 12.2kbps | 8662 | 1732.5 | 0.47 | 0.113 | 21.70 | 21.55 | 0.117 | 1.6 | | | | | | | |
| Body back | RMC 12.2kbps | 8562 | 1712.5 | 0.85 | 0.743 | 21.70 | 21.43 | 0.791 | 1.6 | | | | | | | |
| Body back | RMC 12.2kbps | 8662 | 1732.5 | 0.15 | 0.873 | 21.70 | 21.55 | 0.904 | 1.6 | | | | | | | |
| Body back | RMC 12.2kbps | 8763 | 1752.5 | -0.02 | 0.692 | 21.70 | 21.26 | 0.766 | 1.6 | | | | | | | |
| Body front | RMC 12.2kbps | 8662 | 1732.5 | 0.36 | 0.506 | 21.70 | 21.55 | 0.524 | 1.6 | | | | | | | |
| Edge 2(Right) | RMC 12.2kbps | 8662 | 1732.5 | -0.01 | 0.329 | 21.70 | 21.55 | 0.341 | 1.6 | | | | | | | |
| Edge 3(Bottom) | RMC 12.2kbps | 8662 | 1732.5 | 0.15 | 0.262 | 21.70 | 21.55 | 0.271 | 1.6 | | | | | | | |
| Edge 4(Left) | RMC 12.2kbps | 8662 | 1732.5 | 0.39 | 0.092 | 21.70 | 21.55 | 0.095 | 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 is 10mm of all above table.

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| SAR MEASUREMENT | | | | | | | | | | | | | | | | | |
|--|--------------|-----------------------------|-----------|--------------------|-----------------|--------------------------|--------------------------|-------------------|--------------|--|--|--|--|--|--|--|--|
| Depth of Liquid (cm):>15 | | Relative Humidity (%): 64.2 | | | | | | | | | | | | | | | |
| Product: Smart Phone | | | | | | | | | | | | | | | | | |
| Test Mode: WCDMA Band V with QPSK modulation | | | | | | | | | | | | | | | | | |
| Position | Mode | Ch. | Fr. (MHz) | Power Drift (<±5%) | SAR (1g) (W/kg) | Max. Tune-up Power (dBm) | Meas. output Power (dBm) | Scaled SAR (W/Kg) | Limit (W/kg) | | | | | | | | |
| Left Cheek | RMC 12.2kbps | 4183 | 836.6 | -1.92 | 0.225 | 21.44 | 20.73 | 0.265 | 1.6 | | | | | | | | |
| Left Tilt | RMC 12.2kbps | 4183 | 836.6 | 0.65 | 0.112 | 21.44 | 20.73 | 0.132 | 1.6 | | | | | | | | |
| Right Cheek | RMC 12.2kbps | 4183 | 836.6 | 0.83 | 0.196 | 21.44 | 20.73 | 0.231 | 1.6 | | | | | | | | |
| Right Tilt | RMC 12.2kbps | 4183 | 836.6 | 0.62 | 0.128 | 21.44 | 20.73 | 0.151 | 1.6 | | | | | | | | |
| Body back | RMC 12.2kbps | 4183 | 836.6 | -0.92 | 0.294 | 21.44 | 20.73 | 0.346 | 1.6 | | | | | | | | |
| Body front | RMC 12.2kbps | 4183 | 836.6 | 0.69 | 0.213 | 21.44 | 20.73 | 0.251 | 1.6 | | | | | | | | |
| Edge 2(Right) | RMC 12.2kbps | 4183 | 836.6 | 0.68 | 0.119 | 21.44 | 20.73 | 0.140 | 1.6 | | | | | | | | |
| Edge 3(Bottom) | RMC 12.2kbps | 4183 | 836.6 | 0.65 | 0.034 | 21.44 | 20.73 | 0.040 | 1.6 | | | | | | | | |
| Edge 4(Left) | RMC 12.2kbps | 4183 | 836.6 | -0.97 | 0.185 | 21.44 | 20.73 | 0.218 | 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 is 10mm of all above table.

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| SAR MEASUREMENT | | | | | | | | | | | | | | | | |
|--------------------------|------|-----|-----------------------------|--------------------|-----------------|--------------------------|--------------------------|-------------------|--------------|--|--|--|--|--|--|--|
| Depth of Liquid (cm):>15 | | | Relative Humidity (%): 64.9 | | | | | | | | | | | | | |
| Product: Smart Phone | | | | | | | | | | | | | | | | |
| Test Mode:802.11b | | | | | | | | | | | | | | | | |
| Position | Mode | Ch. | Fr. (MHz) | Power Drift (<±5%) | SAR (1g) (W/kg) | Max. Tune-up Power (dBm) | Meas. output Power (dBm) | Scaled SAR (W/Kg) | Limit (W/kg) | | | | | | | |
| Left Cheek | DTS | 6 | 2437 | -0.83 | 0.058 | 15.70 | 15.70 | 0.058 | 1.6 | | | | | | | |
| Left Tilt | DTS | 6 | 2437 | 1.52 | 0.055 | 15.70 | 15.70 | 0.055 | 1.6 | | | | | | | |
| Right Cheek | DTS | 6 | 2437 | 0.26 | 0.089 | 15.70 | 15.70 | 0.089 | 1.6 | | | | | | | |
| Right Tilt | DTS | 6 | 2437 | 0.62 | 0.073 | 15.70 | 15.70 | 0.073 | 1.6 | | | | | | | |
| Body back | DTS | 6 | 2437 | -1.55 | 0.030 | 15.70 | 15.70 | 0.030 | 1.6 | | | | | | | |
| Body front | DTS | 6 | 2437 | 0.62 | 0.019 | 15.70 | 15.70 | 0.019 | 1.6 | | | | | | | |
| Edge 1 (Top) | DTS | 6 | 2437 | 0.11 | 0.015 | 15.70 | 15.70 | 0.015 | 1.6 | | | | | | | |
| Edge 4(Left) | DTS | 6 | 2437 | -0.02 | 0.006 | 15.70 | 15.70 | 0.006 | 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 is 10mm of all above table.

| Repeated SAR | | | | | | | | | | |
|--|--------------|------|-----------|--------------------|----------------------|--------------------|-----------------------|--------------------|-----------------------|--------------|
| Product: Smart Phone | | | | | | | | | | |
| Test Mode: PCS1900& WCDMA Band II& 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-4 slot | 512 | 1850.2 | 0.54 | 0.860 | -- | -- | -- | -- | 1.6 |
| Body back | RMC 12.2kbps | 9400 | 1880 | -0.43 | 0.881 | -- | -- | -- | -- | 1.6 |
| Body back | RMC 12.2kbps | 8662 | 1732.5 | -0.96 | 0.750 | -- | -- | -- | -- | 1.6 |

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

| NO | Simultaneous state | Portable Handset | | |
|----|--|------------------|------|---------|
| | | Head | Body | Hotspot |
| 1 | GSM(voice)+ WIFI 2.4GHz (data) | Yes | Yes | - |
| 2 | GSM (Data) + WIFI 2.4GHz (data) | - | Yes | Yes |
| 3 | GSM(voice)+Bluetooth(data) | - | Yes | - |
| 4 | GSM (Data) + Bluetooth(data) | - | Yes | Yes |
| 5 | WCDMA(RMC12.2kbps) + Bluetooth(data) | - | Yes | Yes |
| 6 | WCDMA(RMC12.2kbps)+ WIFI 2.4GHz (data) | Yes | Yes | Yes |

NOTE:

1. WIFI and BT share the same antenna, and cannot transmit simultaneously.
2. Simultaneous with every transmitter must be the same test position.
3. KDB 447498 D01, BT SAR is excluded as below table.
4. KDB 447498 D01, for handsets the test separation distance is determined by the smallest distance between the outer surface of the device and the user; which is 0mm for head SAR and 10mm for body-worn SAR.
5. According to KDB 447498 D01 4.3.1, Standalone SAR test exclusion is as follow:

For 100 MHz to 6 GHz and test separation distances ≤ 50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$ for 1-g SAR, and ≤ 7.5 for 10-g extremity SAR³⁰, where

- $f(\text{GHz})$ is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation³¹
- The result is rounded to one decimal place for comparison
- The values 3.0 and 7.5 are referred to as numeric thresholds in step b) below

The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm, and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm according to 4.1 f) is applied to determine SAR test exclusion.

6. If the test separation distance is < 5 mm, 5mm is used for excluded SAR calculation.
7. According to KDB 447498 D01 4.3.2, simultaneous transmission SAR test exclusion is as follow:
 - (1) Simultaneous transmission SAR test exclusion is determined for each operating configuration and exposure condition according to the reported standalone SAR of each applicable simultaneous transmitting antenna.
 - (2) Any transmitters and antennas should be considered when calculating simultaneous mode.
 - (3) For mobile phone and PC, it's the sum of all transmitters and antennas at the same mode with same position in each applicable exposure condition
 - (4) When the standalone SAR test exclusion of section 4.3.2 is applied to an antenna that transmits simultaneously with other antennas, the standalone SAR must be estimated according to the following to det
 $(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm}) \cdot [\sqrt{f(\text{GHz})} / x] \text{ W/kg}$ for test separation distances ≤ 50 mm;
 where $x = 7.5$ for 1-g SAR, and $x = 18.75$ for 10-g SAR.
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 $(\text{SAR1} + \text{SAR2}) / 1.5 / R_i$, rounded to two decimal digits, and must be ≤ 0.04 for all antenna pairs in the configuration to qualify for 1-g SAR test exclusion.

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| Estimated SAR | | Max Power including Tune-up Tolerance | | Separation Distance (mm) | Estimated SAR (W/kg) |
|---------------|------|---------------------------------------|------|--------------------------|----------------------|
| | | dBm | mW | | |
| BT | Head | 6 | 3.98 | 0 | 0.166 |
| | Body | 6 | 3.98 | 10 | 0.083 |

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

| RF Exposure Conditions | Test Position | Simultaneous Transmission Scenario | | | $\Sigma 1\text{-g SAR (W/Kg)}$ | SPLSR (Yes/No) |
|--------------------------|--------------------|------------------------------------|----------------|-----------|--------------------------------|----------------|
| | | GSM 850 | WI-Fi DTS Band | Bluetooth | | |
| Head (voice) | Left Touch | 0.321 | 0.058 | | 0.379 | No |
| | Left Tilt | 0.175 | 0.055 | | 0.230 | No |
| | Right Touch | 0.280 | 0.089 | | 0.369 | No |
| | Right Tilt | 0.191 | 0.073 | | 0.264 | No |
| Body-worn (voice) | Rear | 0.282 | 0.030 | | 0.312 | No |
| | | 0.282 | | 0.083 | 0.365 | No |
| | Front | 0.289 | 0.019 | | 0.308 | No |
| | | 0.289 | | 0.083 | 0.372 | No |
| Body-worn (Data) | Rear | 0.584 | | 0.083 | 0.667 | No |
| | | 0.584 | 0.030 | | 0.614 | No |
| | Front | 0.371 | | 0.083 | 0.454 | No |
| | | 0.371 | 0.019 | | 0.390 | No |
| | Edge 4 | 0.278 | 0.006 | | 0.284 | No |
| | | 0.278 | | 0.083 | 0.361 | No |

Note:

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

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

| RF Exposure Conditions | Test Position | Simultaneous Transmission Scenario | | | $\Sigma 1\text{-g SAR}$ (W/Kg) | SPLSR (Yes/No) |
|------------------------|---------------|------------------------------------|----------------|-----------|--------------------------------|----------------|
| | | PCS 1900 | WI-Fi DTS Band | Bluetooth | | |
| Head (voice) | Left Touch | 0.157 | 0.058 | | 0.215 | No |
| | Left Tilt | 0.084 | 0.055 | | 0.139 | No |
| | Right Touch | 0.297 | 0.089 | | 0.386 | No |
| | Right Tilt | 0.086 | 0.073 | | 0.159 | No |
| Body-worn (voice) | Rear | 0.540 | 0.030 | | 0.570 | No |
| | | 0.540 | | 0.083 | 0.623 | No |
| | Front | 0.326 | 0.019 | | 0.345 | No |
| | | 0.326 | | 0.083 | 0.409 | No |
| Body-worn (Data) | Rear | 1.031 | | 0.083 | 1.114 | No |
| | | 1.031 | 0.030 | | 1.061 | No |
| | Front | 0.528 | | 0.083 | 0.611 | No |
| | | 0.528 | 0.019 | | 0.547 | No |
| | Edge 4 | 0.139 | 0.006 | | 0.145 | No |
| | | 0.139 | | 0.083 | 0.222 | No |

Note:

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

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

| RF Exposure Conditions | Test Position | Simultaneous Transmission Scenario | | | $\Sigma 1\text{-g SAR (W/Kg)}$ | SPLSR (Yes/No) |
|------------------------|--------------------|------------------------------------|----------------|-----------|--------------------------------|----------------|
| | | WCDMA Band II | Wi-Fi DTS Band | Bluetooth | | |
| Head | Left Touch | 0.236 | 0.058 | | 0.294 | No |
| | Left Tilt | 0.158 | 0.055 | | 0.213 | No |
| | Right Touch | 0.423 | 0.089 | | 0.512 | No |
| | Right Tilt | 0.149 | 0.073 | | 0.222 | No |
| Body-worn | Rear | 1.139 | 0.030 | | 1.169 | No |
| | Front | 0.646 | 0.019 | | 0.665 | No |
| | Edge 4 | 0.108 | 0.006 | | 0.114 | No |
| | Rear | 1.139 | | 0.083 | 1.222 | No |
| | Front | 0.646 | | 0.083 | 0.729 | No |
| | Edge 4 | 0.108 | | 0.083 | 0.191 | No |

Note:

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

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

| RF Exposure Conditions | Test Position | Simultaneous Transmission Scenario | | | $\Sigma 1\text{-g SAR (W/Kg)}$ | SPLSR (Yes/No) |
|------------------------|---------------|------------------------------------|----------------|-----------|--------------------------------|----------------|
| | | WCDMA Band V | Wi-Fi DTS Band | Bluetooth | | |
| Head | Left Touch | 0.324 | 0.058 | | 0.382 | No |
| | Left Tilt | 0.086 | 0.055 | | 0.141 | No |
| | Right Touch | 0.357 | 0.089 | | 0.446 | No |
| | Right Tilt | 0.117 | 0.073 | | 0.190 | No |
| Body-worn | Rear | 0.904 | 0.030 | | 0.934 | No |
| | Front | 0.524 | 0.019 | | 0.543 | No |
| | Edge 4 | 0.095 | 0.006 | | 0.101 | No |
| | Rear | 0.904 | | 0.083 | 0.987 | No |
| | Front | 0.524 | | 0.083 | 0.607 | No |
| | Edge 4 | 0.095 | | 0.083 | 0.178 | No |

Note:

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

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

| RF Exposure Conditions | Test Position | Simultaneous Transmission Scenario | | | $\Sigma 1\text{-g SAR (W/Kg)}$ | SPLSR (Yes/No) |
|------------------------|--------------------|------------------------------------|----------------|-----------|--------------------------------|----------------|
| | | WCDMA Band V | Wi-Fi DTS Band | Bluetooth | | |
| Head | Left Touch | 0.265 | 0.058 | | 0.323 | No |
| | Left Tilt | 0.132 | 0.055 | | 0.187 | No |
| | Right Touch | 0.231 | 0.089 | | 0.320 | No |
| | Right Tilt | 0.151 | 0.073 | | 0.224 | No |
| Body-worn | Rear | 0.346 | 0.030 | | 0.376 | No |
| | Front | 0.251 | 0.019 | | 0.270 | No |
| | Edge 4 | 0.218 | 0.006 | | 0.224 | No |
| | Rear | 0.346 | | 0.083 | 0.429 | No |
| | Front | 0.251 | | 0.083 | 0.334 | No |
| | Edge 4 | 0.218 | | 0.083 | 0.301 | No |

Note:

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

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APPENDIX A. SAR SYSTEM CHECK DATA

Test Laboratory: AGC Lab

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=1.74

Frequency: 835 MHz; Medium parameters used: $f = 835$ MHz; $\sigma = 0.92$ mho/m; $\epsilon_r = 41.00$; $\rho = 1000$ kg/m³ ;

Phantom section: Flat Section; Input Power=18dBm

Ambient temperature (°C): 23.2, Liquid temperature (°C): 22.5

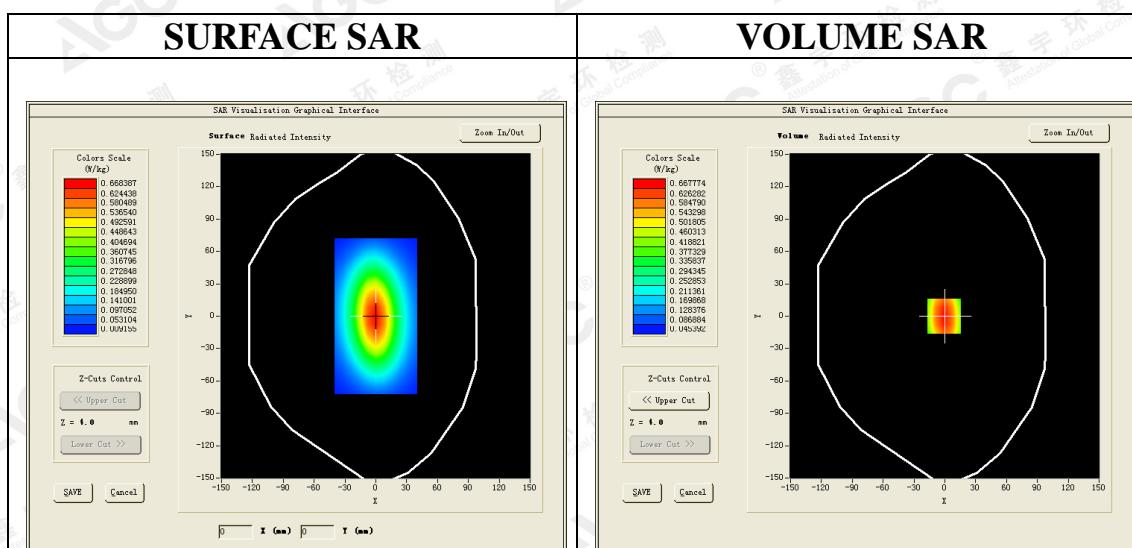
Date: Aug. 06,2018

SATIMO Configuration

- Probe: SSE2; Calibrated:Aug. 08,2017; Serial No.: SN 08/16 EPGO282
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

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

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



Maximum location: X=-1.00, Y=0.00

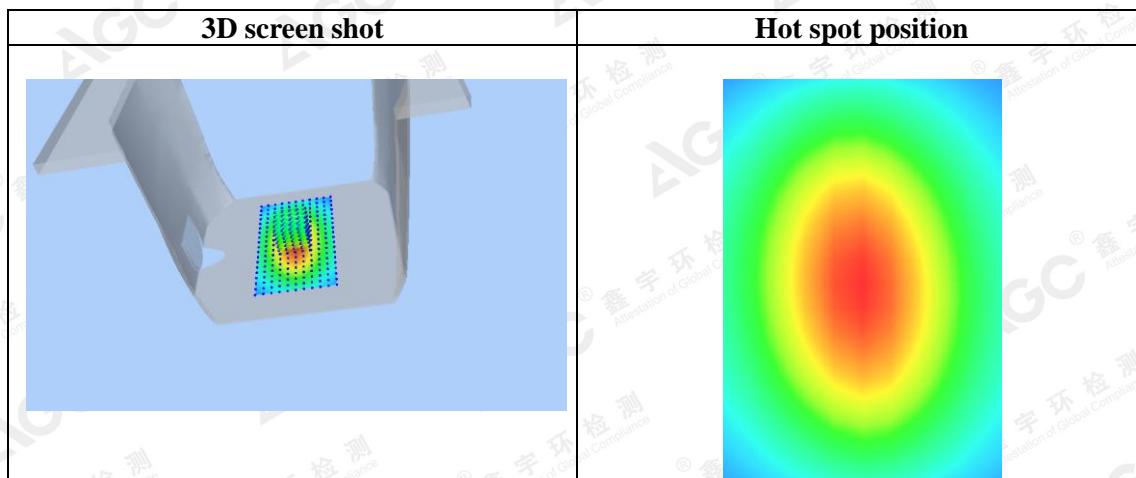
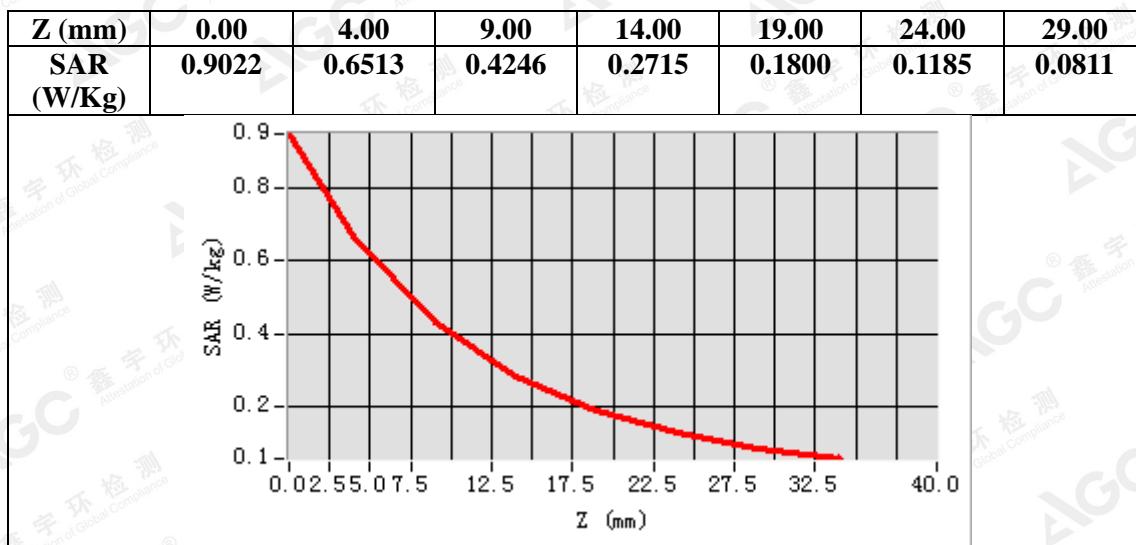
SAR Peak: 0.90 W/kg

| | |
|-----------------------|----------|
| SAR 10g (W/Kg) | 0.397584 |
| SAR 1g (W/Kg) | 0.634128 |

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Test Laboratory: AGC Lab
System Check Body 835 MHz
DUT: Dipole 835 MHz Type: SID 835

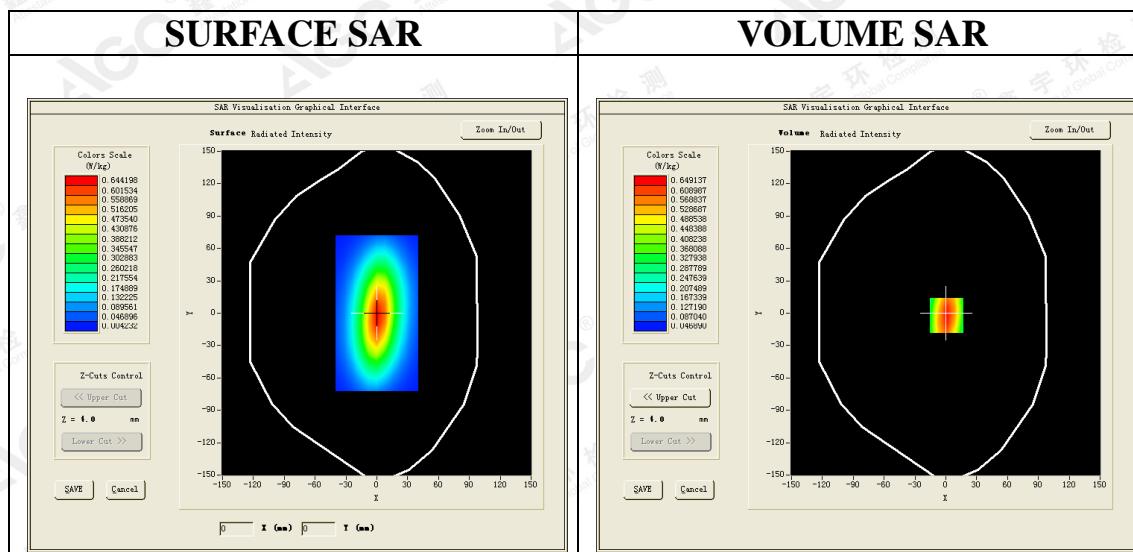
Communication System CW; Communication System Band: D835 (835.0 MHz); Duty Cycle: 1:1; Conv.F=1.81
 Frequency: 835 MHz; Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.95 \text{ mho/m}$; $\epsilon_r = 55.15$; $\rho = 1000 \text{ kg/m}^3$;
 Phantom section: Flat Section; Input Power=18dBm
 Ambient temperature ($^{\circ}\text{C}$): 23.2, Liquid temperature ($^{\circ}\text{C}$): 22.7

SATIMO Configuration

- Probe: SSE2; Calibrated: Aug. 08, 2017; Serial No.: SN 08/16 EPGO282
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

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

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



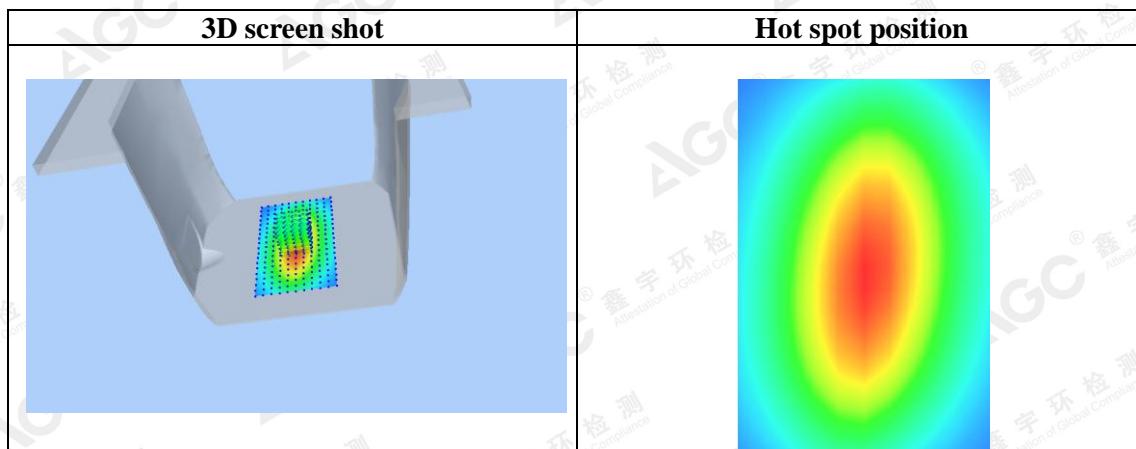
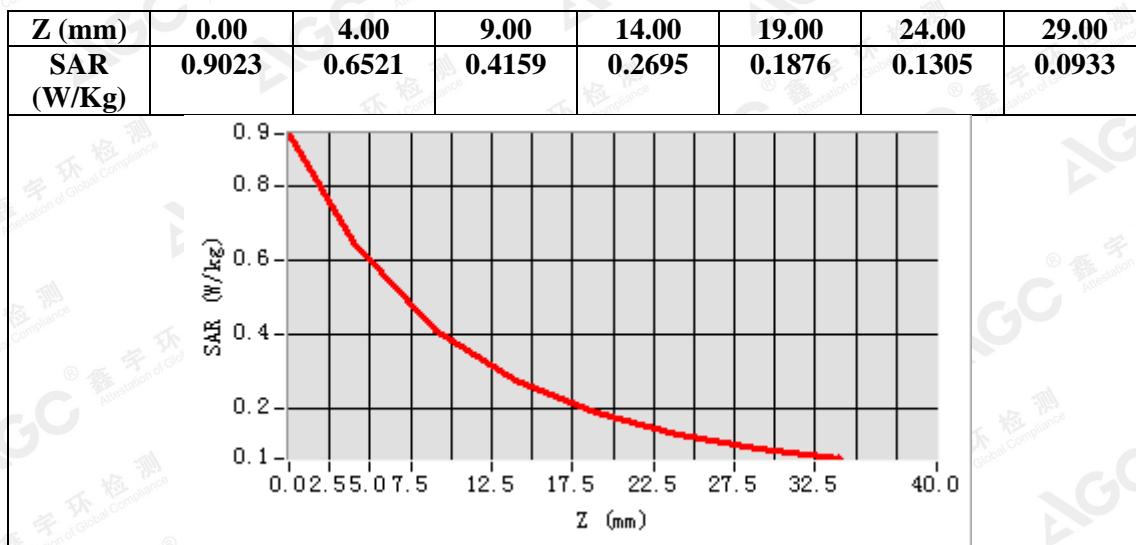
Maximum location: X=1.00, Y=-2.00
SAR Peak: 0.90 W/kg

| | |
|-----------------------|----------|
| SAR 10g (W/Kg) | 0.382152 |
| SAR 1g (W/Kg) | 0.621084 |

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Add: 2/F., Building 2, No.1-4, Chaxi Sanwei Technical Industrial Park, Gushu, Xixiang, Baoan District, Shenzhen, Guangdong China

Test Laboratory: AGC Lab
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=1.99
 Frequency: 1750MHz; Medium parameters used: $f = 1800$ MHz; $\sigma = 1.38$ mho/m; $\epsilon_r = 40.71$; $\rho = 1000$ kg/m³ ;
 Phantom section: Flat Section; Input Power=18dBm
 Ambient temperature (°C): 22.0, Liquid temperature (°C): 21.4

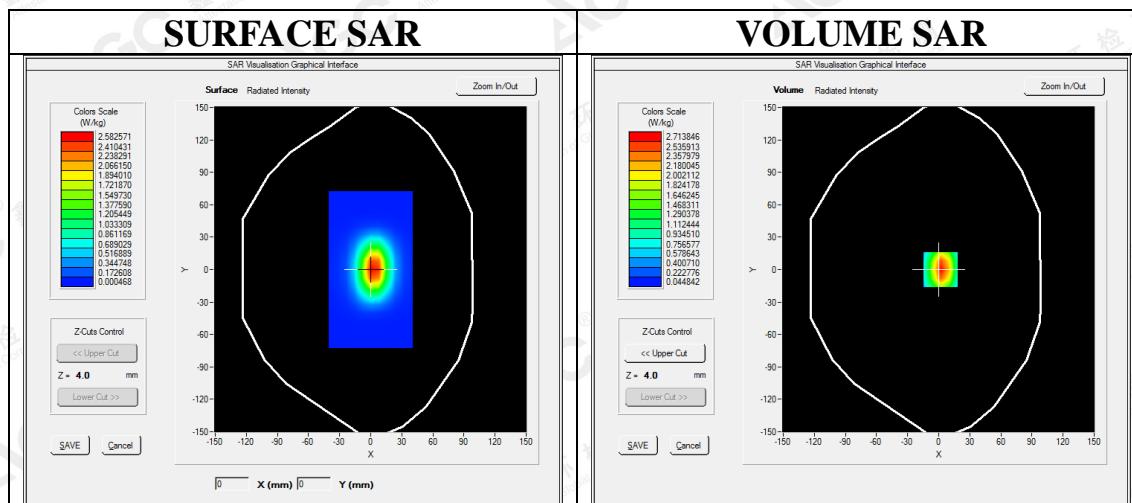
Date: Aug. 05,2018

SATIMO Configuration:

- Probe: SSE2; Calibrated:Aug. 08,2017; Serial No.: SN 08/16 EPGO282
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_35

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

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



Maximum location: X=2.00, Y=0.00

SAR Peak: 4.30 W/kg

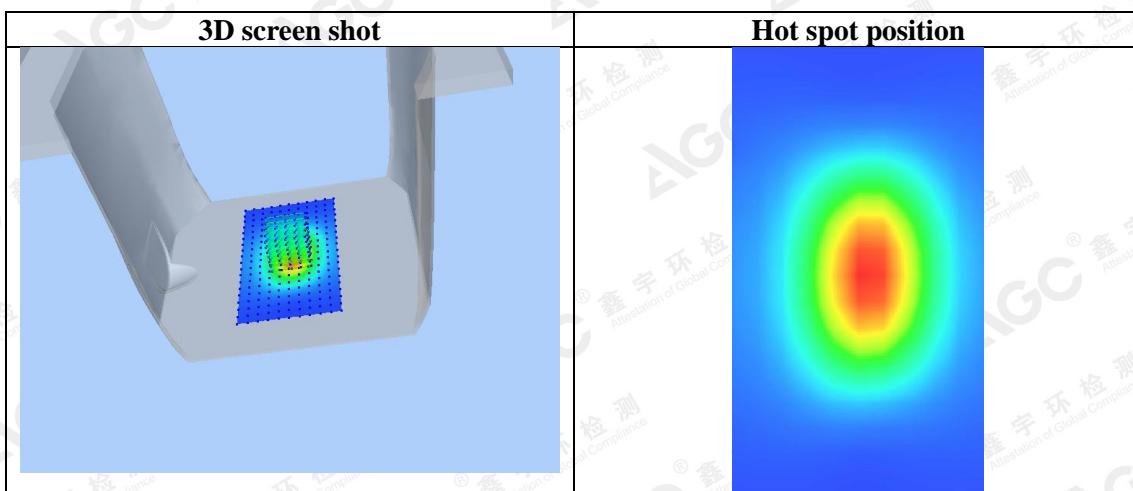
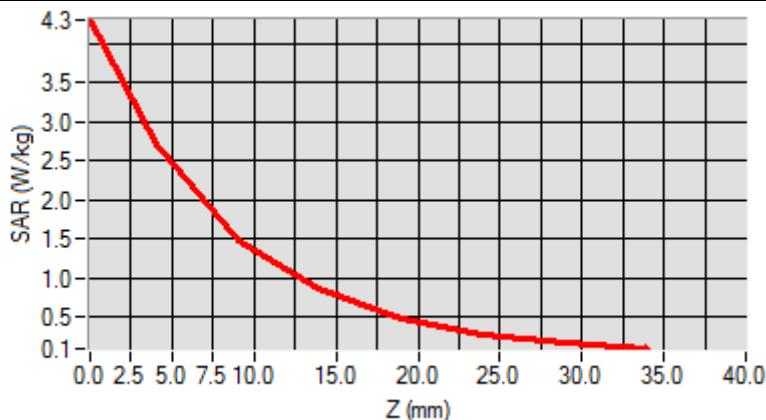
| | |
|-----------------------|----------|
| SAR 10g (W/Kg) | 1.318114 |
| SAR 1g (W/Kg) | 2.559017 |

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| Z (mm) | 0.00 | 4.00 | 9.00 | 14.00 | 19.00 | 24.00 | 29.00 |
|------------|--------|--------|--------|--------|--------|--------|--------|
| SAR (W/Kg) | 4.2972 | 2.7138 | 1.4931 | 0.8584 | 0.4956 | 0.2905 | 0.1712 |



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Add: 2/F., Building 2, No.1-4, Chaxi Sanwei Technical Industrial Park, Gushu, Xixiang, Baoan District, Shenzhen, Guangdong China

Test Laboratory: AGC Lab
System Check Body 1750MHz
DUT: Dipole 1800 MHz; Type: SID 1800

Date: Aug. 05,2018

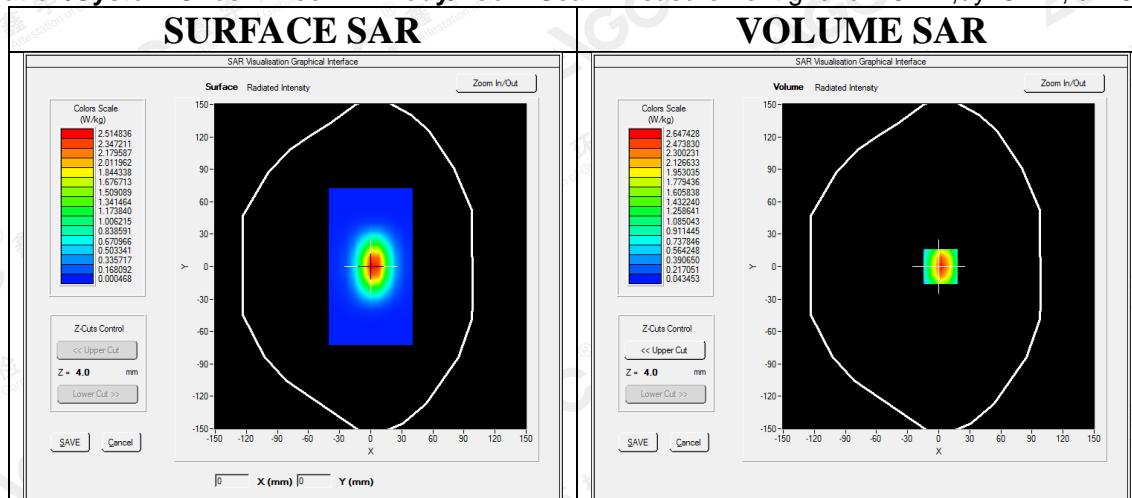
Communication System: CW; Communication System Band: D1700 (1750.0 MHz); Duty Cycle: 1:1; Conv.F=2.05
Frequency: 1750 MHz; Medium parameters used: $f = 1800\text{MHz}$; $\sigma = 1.50 \text{ mho/m}$; $\epsilon_r = 54.26$; $\rho = 1000 \text{ kg/m}^3$;
Phantom section: Flat Section; Input Power=18dBm
Ambient temperature (°C): 22.0, Liquid temperature (°C): 21.6

SATIMO Configuration:

- Probe: SSE2; Calibrated: Aug. 08,2017; Serial No.: SN 08/16 EPGO282
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_35

Configuration/System Check 1750MHz Body/Area Scan: Measurement grid: dx=8mm,dy=8mm

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



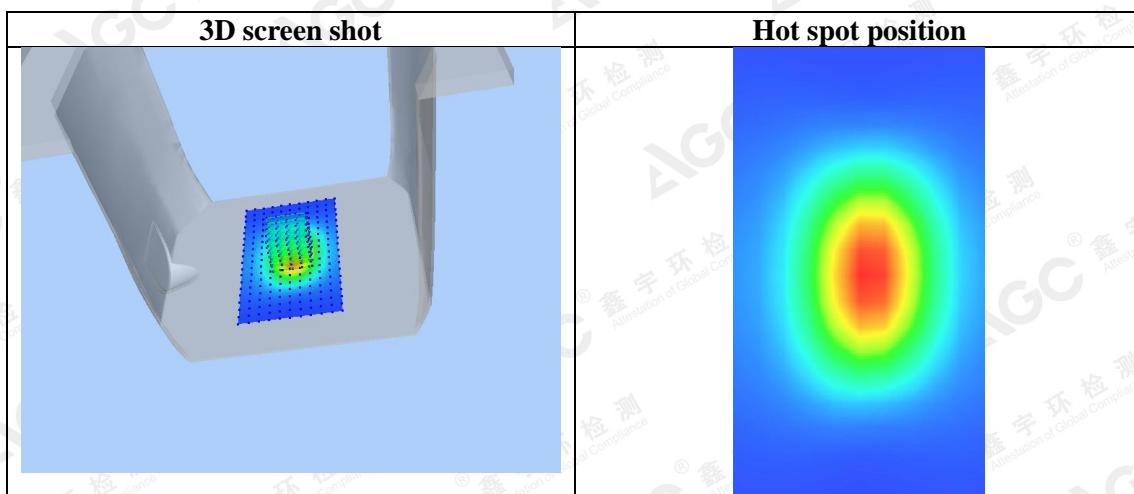
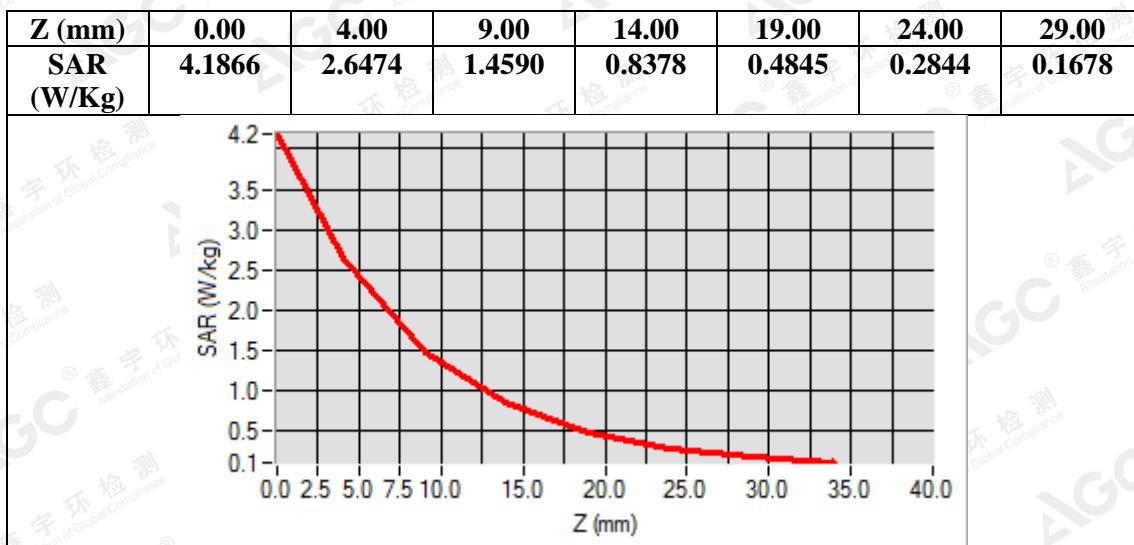
Maximum location: X=2.00, Y=0.00

SAR Peak: 4.19 W/kg

| | |
|-----------------------|----------|
| SAR 10g (W/Kg) | 1.285341 |
| SAR 1g (W/Kg) | 2.493629 |

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Add: 2/F., Building 2, No.1-4, Chaxi Sanwei Technical Industrial Park, Gushu, Xixiang, Baoan District, Shenzhen, Guangdong China

Test Laboratory: AGC Lab
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=5.74
 Frequency: 1900 MHz; Medium parameters used: $f = 1900$ MHz; $\sigma = 1.41$ mho/m; $\epsilon_r = 39.94$; $\rho = 1000$ kg/m³ ;
 Phantom section: Flat Section; Input Power=18dBm
 Ambient temperature (°C):21.5, Liquid temperature (°C): 21.1

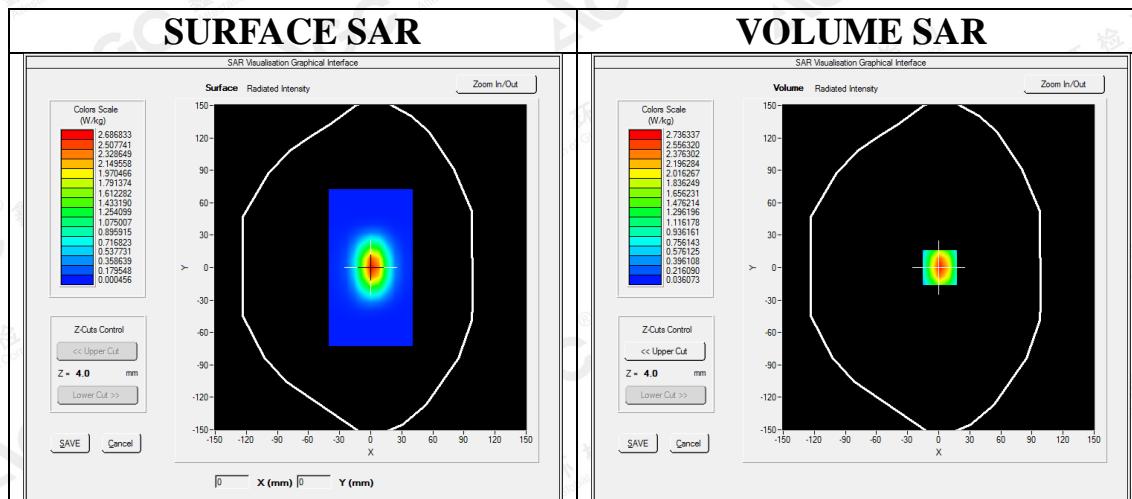
Date: Aug. 01,2018

SATIMO Configuration:

- Probe: SSE2; Calibrated:Aug. 08,2017; Serial No.: SN 08/16 EPGO282
- 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



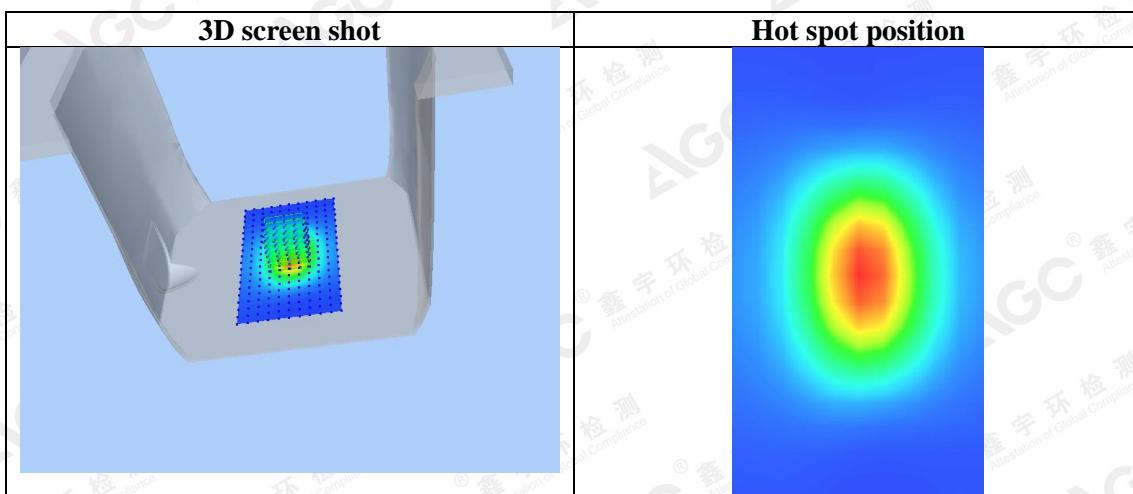
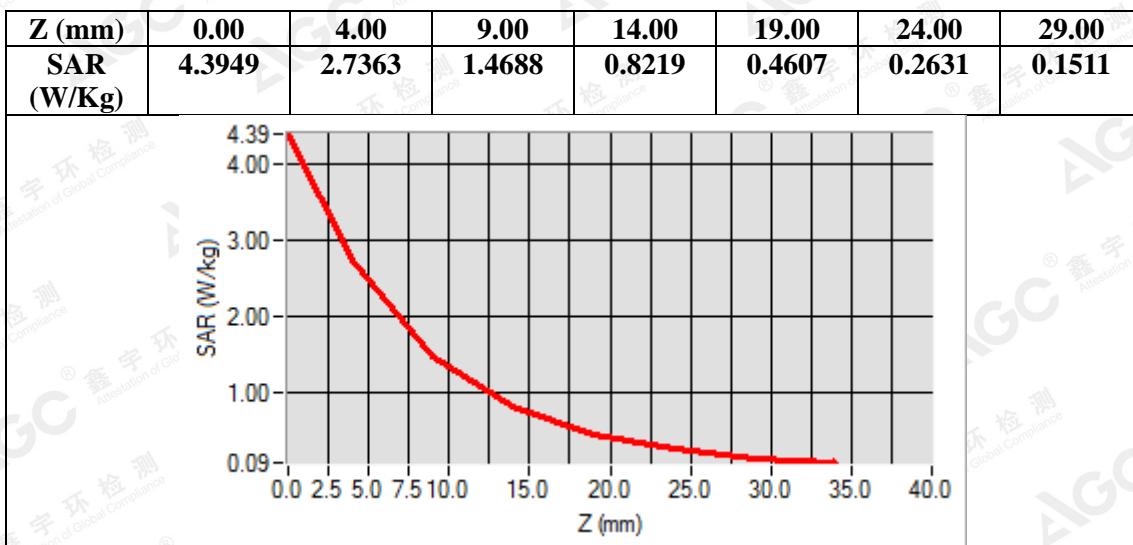
Maximum location: X=1.00, Y=0.00

SAR Peak: 4.39 W/kg

| | |
|-----------------------|----------|
| SAR 10g (W/Kg) | 1.291853 |
| SAR 1g (W/Kg) | 2.573522 |

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Test Laboratory: AGC Lab
System Check Body 1900MHz
DUT: Dipole 1900 MHz; Type: SID 1900
 Communication System: CW; Communication System Band: D1900 (1900.0 MHz); Duty Cycle:1:1; Conv.F=5.90
 Frequency: 1900 MHz; Medium parameters used: $f = 1900$ MHz; $\sigma = 1.51$ mho/m; $\epsilon_r = 52.88$; $\rho = 1000$ kg/m³ ;
 Phantom section: Flat Section; Input Power=18dBm
 Ambient temperature (°C):21.5, Liquid temperature (°C): 21.3

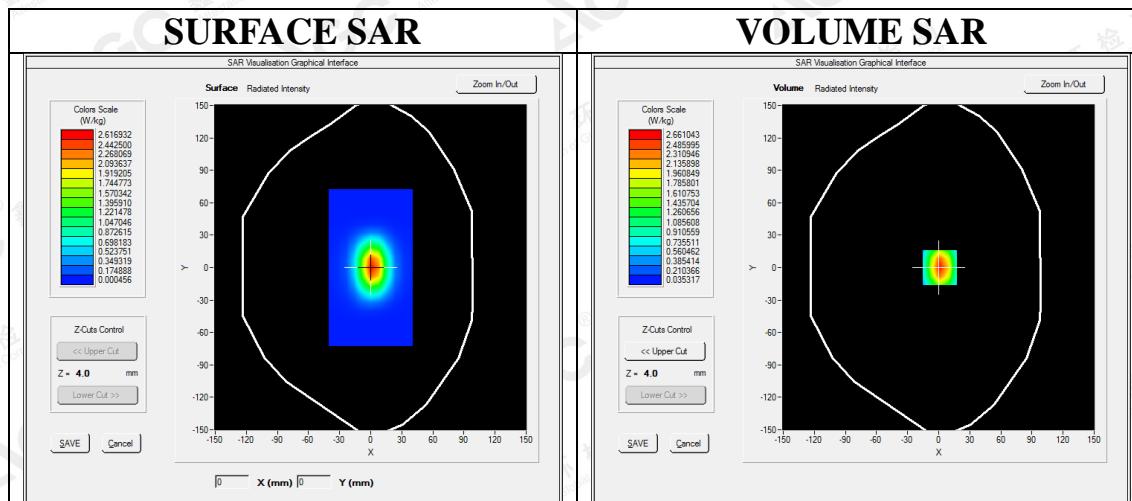
Date: Aug. 01,2018

SATIMO Configuration:

- Probe: SSE2; Calibrated:Aug. 08,2017; Serial No.: SN 08/16 EPGO282
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_35

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

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



Maximum location: X=1.00, Y=0.00

SAR Peak: 4.27 W/kg

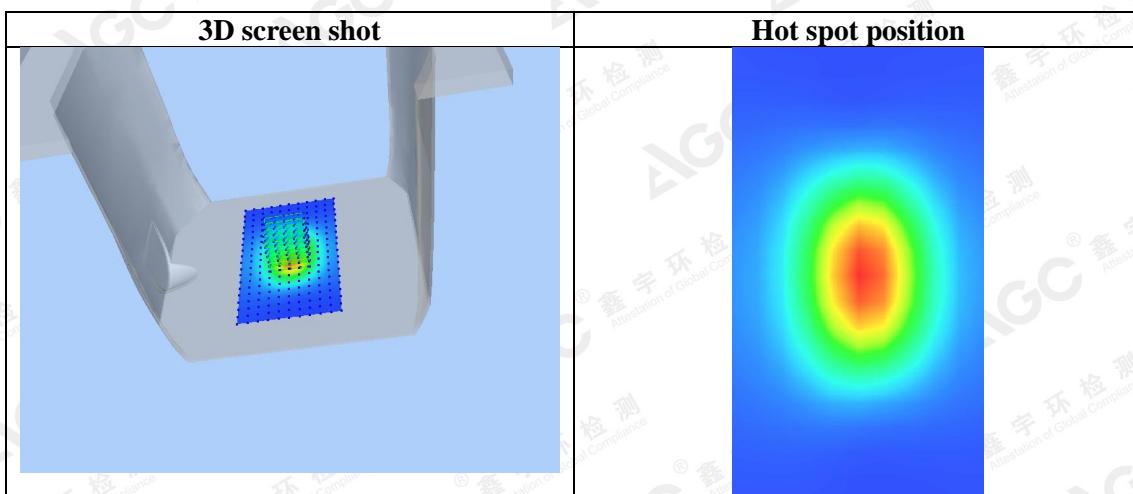
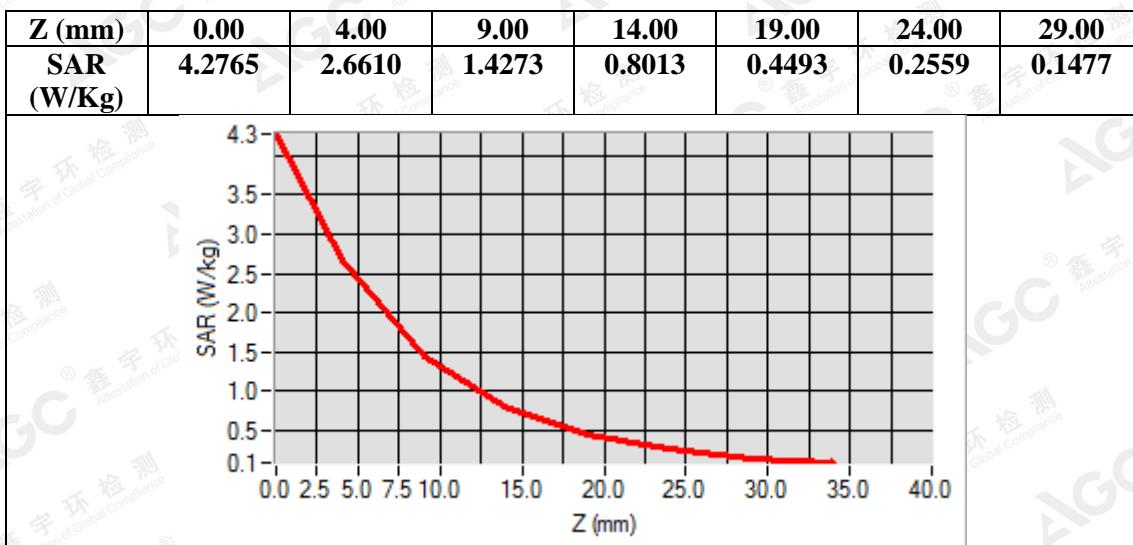
| | |
|----------------|----------|
| SAR 10g (W/Kg) | 1.255999 |
| SAR 1g (W/Kg) | 2.501195 |

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Test Laboratory: AGC Lab
System Check Head 2450 MHz
DUT: Dipole 2450 MHz Type: SID 2450

Date: Aug. 03,2018

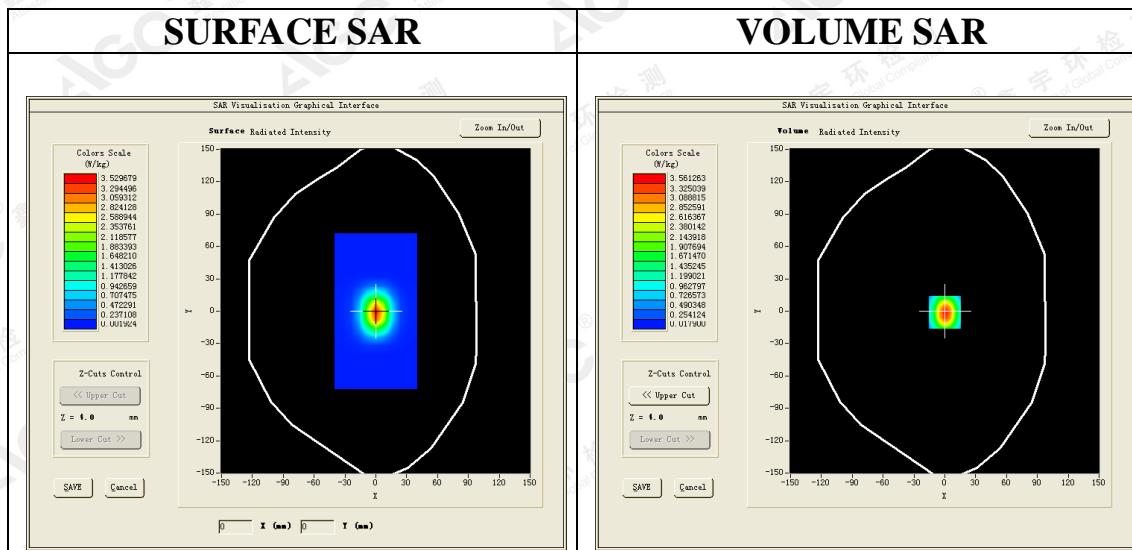
Communication System CW; Communication System Band: D2450 (2450.0 MHz); Duty Cycle: 1:1; Conv.F=5.19
 Frequency: 2450 MHz; Medium parameters used: $f = 2450$ MHz; $\sigma = 1.82$ mho/m; $\epsilon_r = 38.81$; $\rho = 1000$ kg/m³ ;
 Phantom section: Flat Section; Input Power=18dBm
 Ambient temperature (°C):21.9, Liquid temperature (°C): 21.3

SATIMO Configuration

- Probe: SSE2; Calibrated:Aug. 08,2017; Serial No.: SN 08/16 EPGO282
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

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

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



Maximum location: X=0.00, Y=-0.00

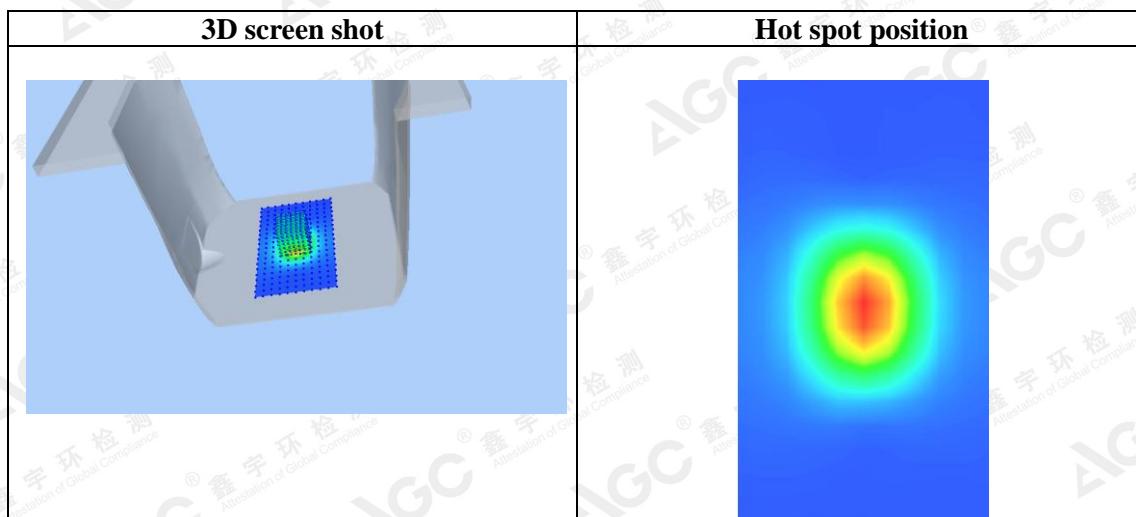
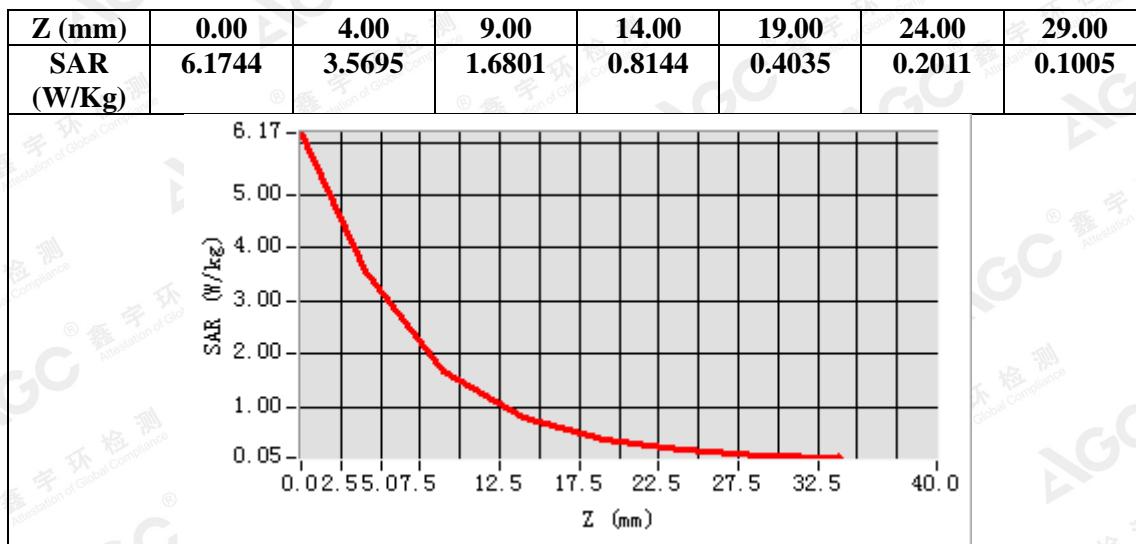
SAR Peak: 6.17 W/kg

| | |
|-----------------------|----------|
| SAR 10g (W/Kg) | 1.465371 |
| SAR 1g (W/Kg) | 3.257154 |

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Test Laboratory: AGC Lab
System Check Body 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=5.33
 Frequency: 2450 MHz; Medium parameters used: $f = 2450$ MHz; $\sigma = 1.92$ mho/m; $\epsilon_r = 52.94$; $\rho = 1000$ kg/m³ ;
 Phantom section: Flat Section; Input Power=18dBm
 Ambient temperature (°C): 21.9, Liquid temperature (°C): 21.5

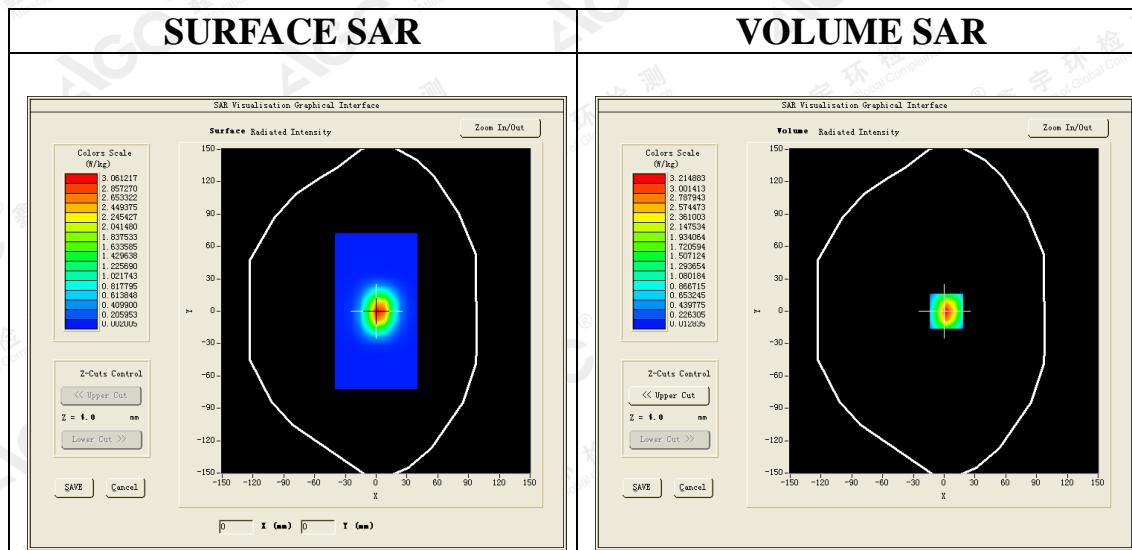
Date: Aug. 03,2018

SATIMO Configuration

- Probe: SSE2; Calibrated: Aug. 08, 2017; Serial No.: SN 08/16 EPGO282
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

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

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



Maximum location: X=2.00, Y=0.00

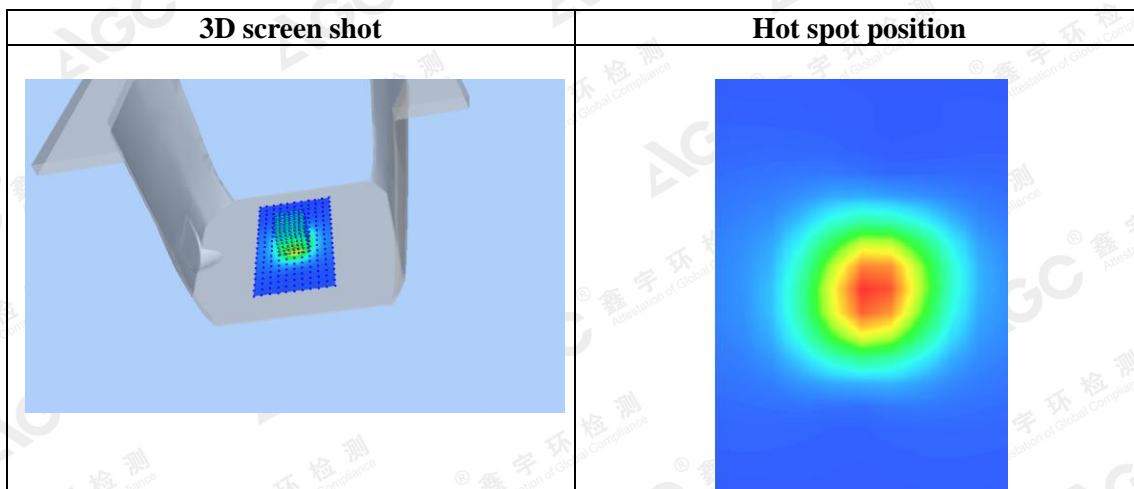
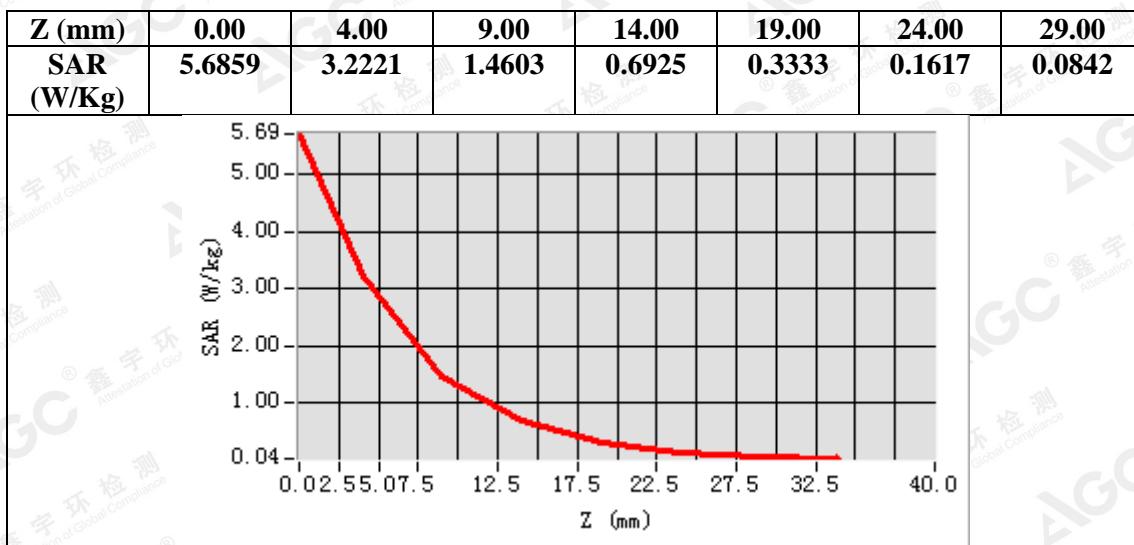
SAR Peak: 5.69 W/kg

| | |
|-----------------------|----------|
| SAR 10g (W/Kg) | 1.329134 |
| SAR 1g (W/Kg) | 3.023741 |

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APPENDIX B. SAR MEASUREMENT DATA

Test Laboratory: AGC Lab
GSM 850 Mid-Touch-Left <SIM 1>
DUT: Smart Phone; Type: Cirrus C2

Date: Aug. 06,2018

Communication System: Generic GSM; Communication System Band: GSM 850; Duty Cycle: 1:8.3; Conv.F=1.74; Frequency: 836.6 MHz; Medium parameters used: $f = 835$ MHz; $\sigma = 0.93$ mho/m; $\epsilon_r = 40.75$; $\rho = 1000$ kg/m³; Phantom section: Left Section
Ambient temperature (°C): 23.2, Liquid temperature (°C): 22.5

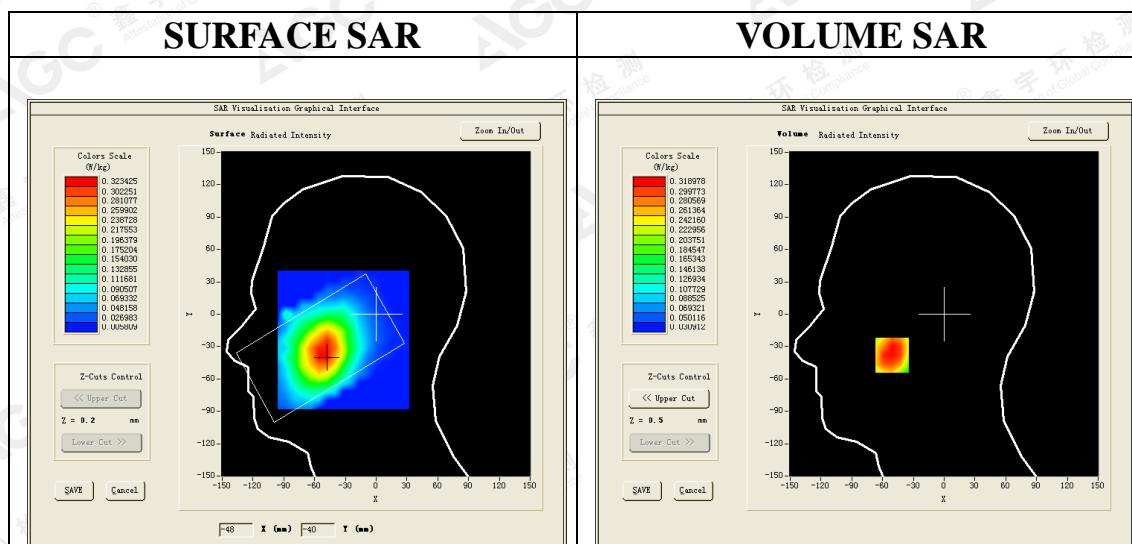
SATIMO Configuration:

- Probe: SSE2; Calibrated: Aug. 08,2017; Serial No.: SN 08/16 EPGO282
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

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 | sam_direct_droit2_surf8mm.txt |
| 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) |



Maximum location: X=-51.00, Y=-38.00

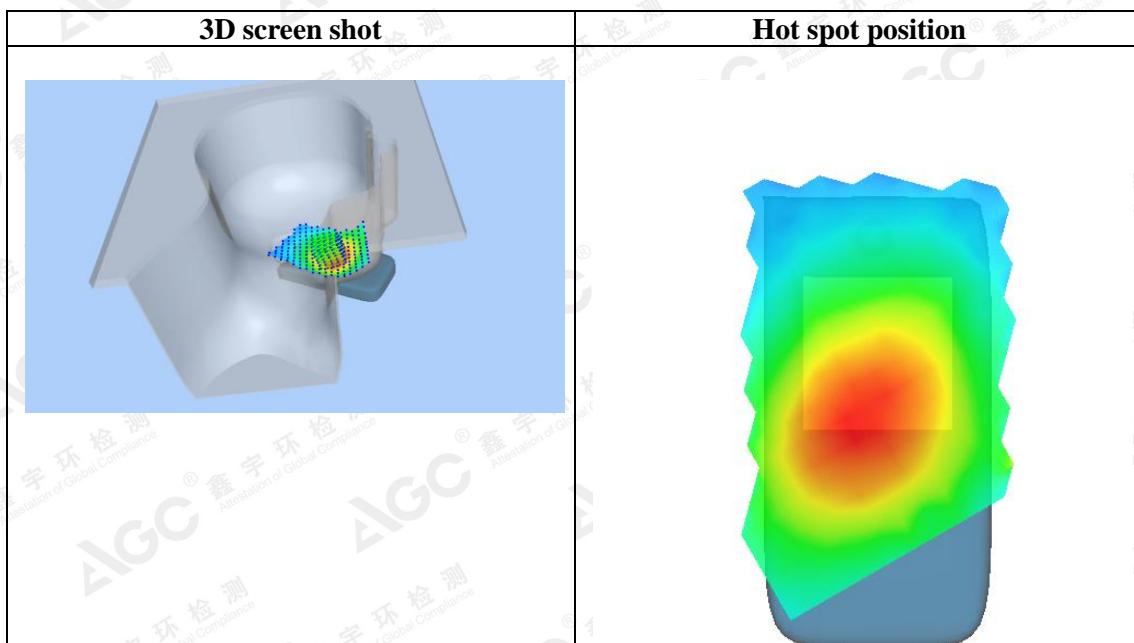
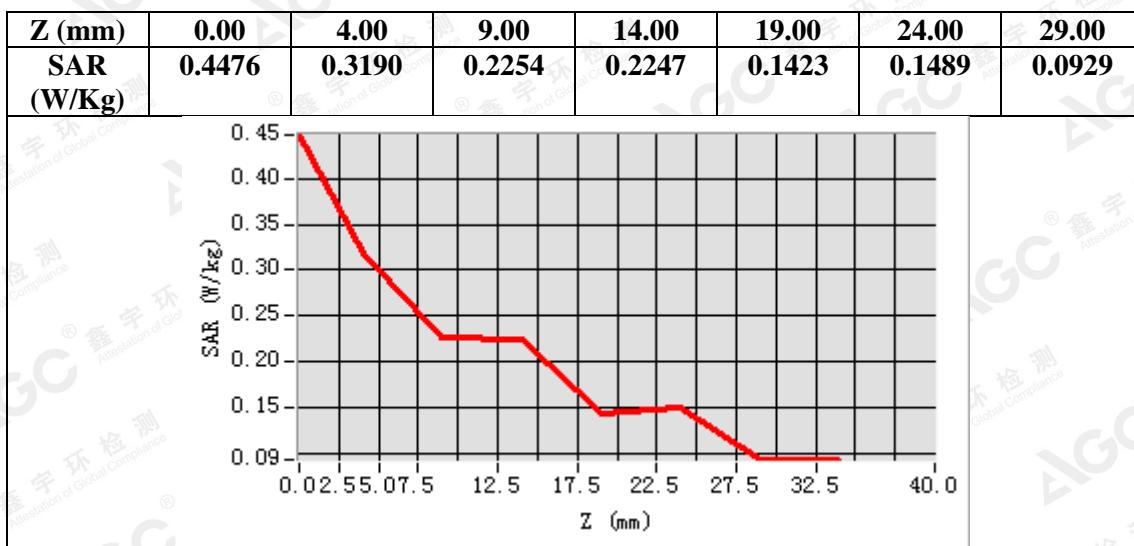
SAR Peak: 0.41 W/kg

| | |
|-----------------------|----------|
| SAR 10g (W/Kg) | 0.234773 |
| SAR 1g (W/Kg) | 0.311216 |

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Add: 2/F., Building 2, No.1-4, Chaxi Sanwei Technical Industrial Park, Gushu, Xixiang, Baoan District, Shenzhen, Guangdong China

Test Laboratory: AGC Lab
GSM 850 Mid- Body- Front (MS) <SIM 1>
DUT: Smart Phone; Type: Cirrus C2

Date: Aug. 06,2018

Communication System: Generic GSM; Communication System Band: GSM 850; Duty Cycle: 1:8.3;Conv.F=1.81;
 Frequency: 836.6 MHz; Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.96 \text{ mho/m}$; $\epsilon_r = 54.58$; $\rho = 1000 \text{ kg/m}^3$;
 Phantom section: Flat Section
 Ambient temperature (°C): 23.2, Liquid temperature (°C): 22.7

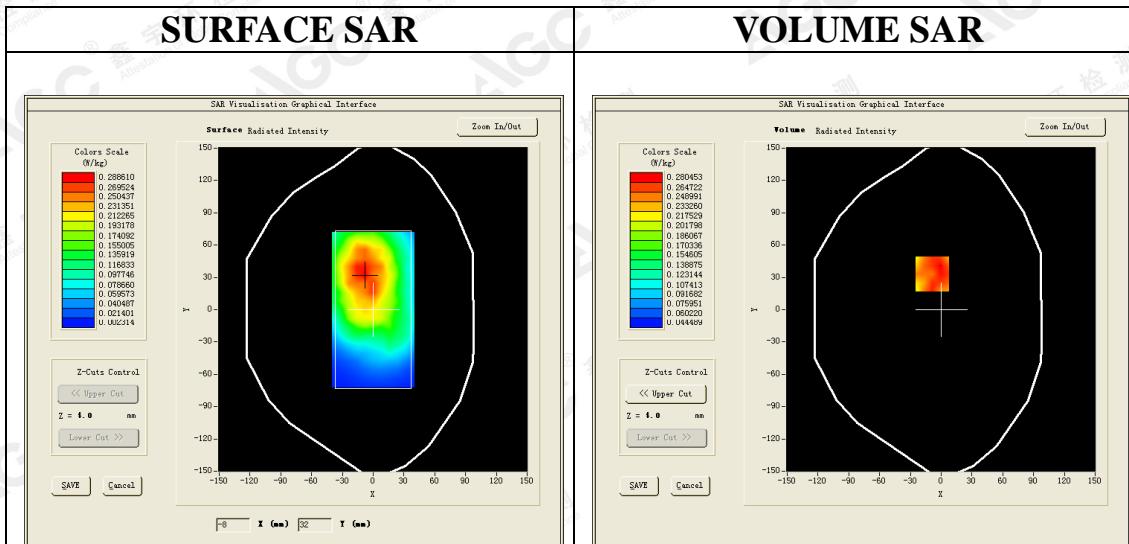
SATIMO Configuration:

- Probe: SSE2; Calibrated:Aug. 08,2017; Serial No.: SN 08/16 EPGO282
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

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

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

| | |
|------------------------|-------------------------------------|
| Area Scan | sam_direct_droit2_surf8mm.txt |
| ZoomScan | 5x5x7,dx=8mm dy=8mm dz=5mm,Complete |
| Phantom | Validation plane |
| Device Position | Body Front |
| Band | GSM 850 |
| Channels | Middle |
| Signal | TDMA (Crest factor: 8.0) |



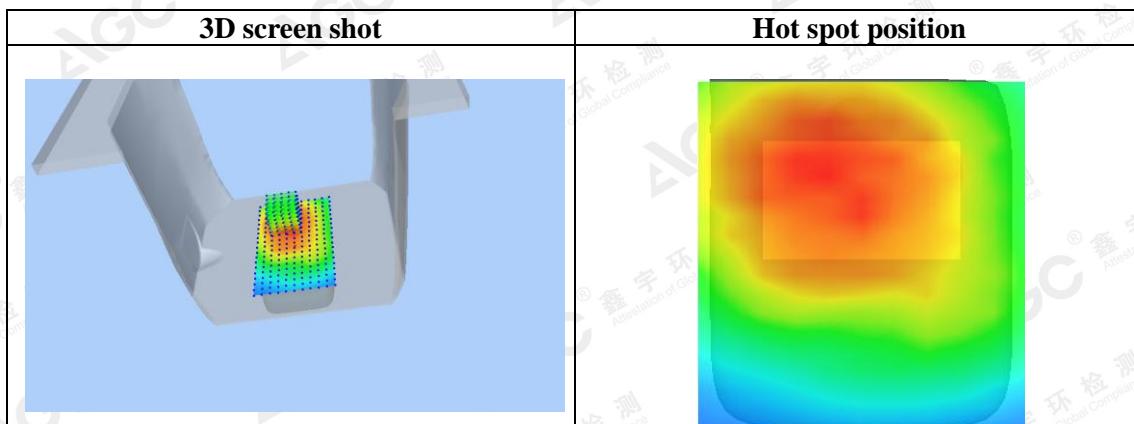
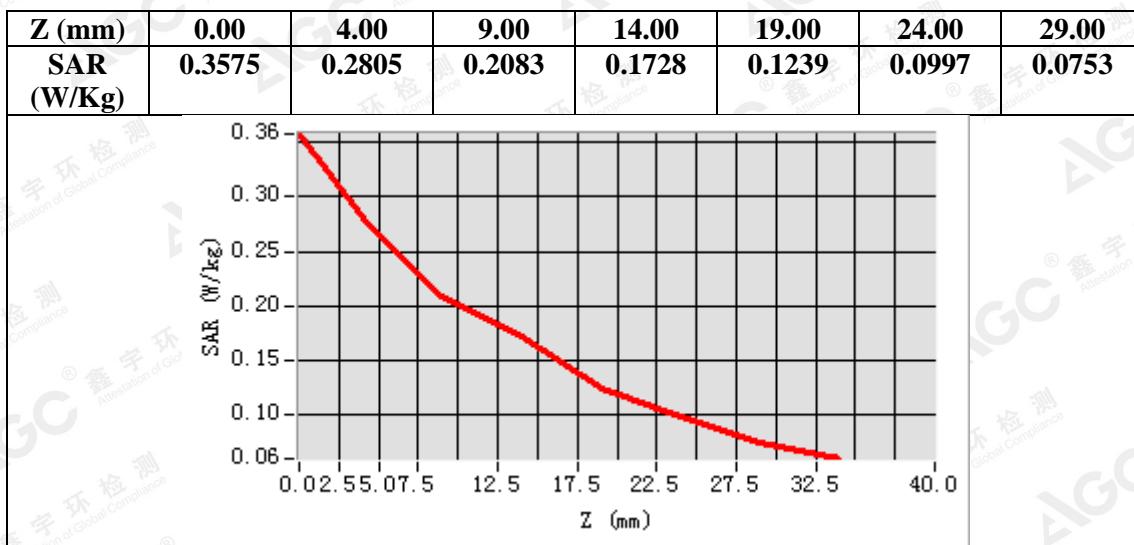
Maximum location: X=-9.00, Y=33.00
SAR Peak: 0.40 W/kg

| | |
|-----------------------|----------|
| SAR 10g (W/Kg) | 0.203101 |
| SAR 1g (W/Kg) | 0.279698 |

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Test Laboratory: AGC Lab
GPRS 850 Mid- Body- Back (2up)
DUT: Smart Phone; Type: Cirrus C2

Date: Aug. 06,2018

Communication System: GPRS-2 Slot; Communication System Band: GSM 850; Duty Cycle: 1:4.2; Conv.F=1.81; Frequency: 836.6 MHz; Medium parameters used: $f = 835$ MHz; $\sigma = 0.96$ mho/m; $\epsilon_r = 54.58$; $\rho = 1000$ kg/m³; Phantom section: Flat Section

Ambient temperature (°C): 23.2, Liquid temperature (°C): 22.7

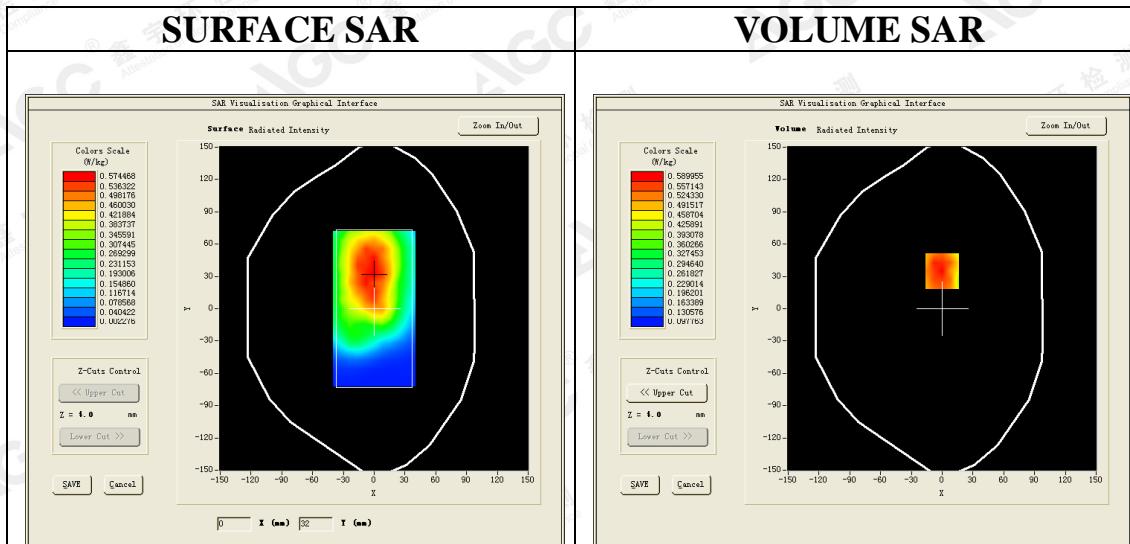
SATIMO Configuration:

- Probe: SSE2; Calibrated:Aug. 08,2017; Serial No.: SN 08/16 EPGO282
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

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

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

| | |
|------------------------|-------------------------------------|
| Area Scan | sam_direct_droit2_surf8mm.txt |
| Zoom Scan | 5x5x7,dx=8mm dy=8mm dz=5mm,Complete |
| Phantom | Validation plane |
| Device Position | Body Back |
| Band | GSM 850 |
| Channels | Middle |
| Signal | TDMA (Crest factor: 4.0) |



Maximum location: X=0.00, Y=35.00

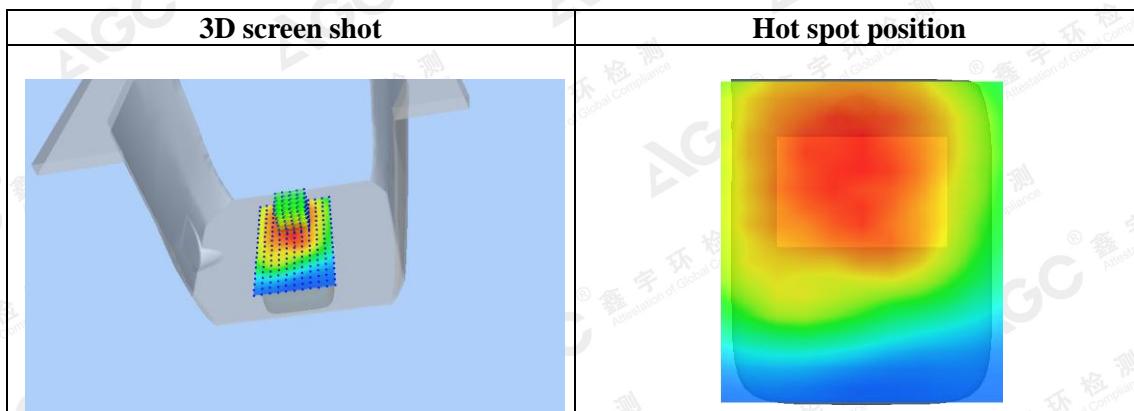
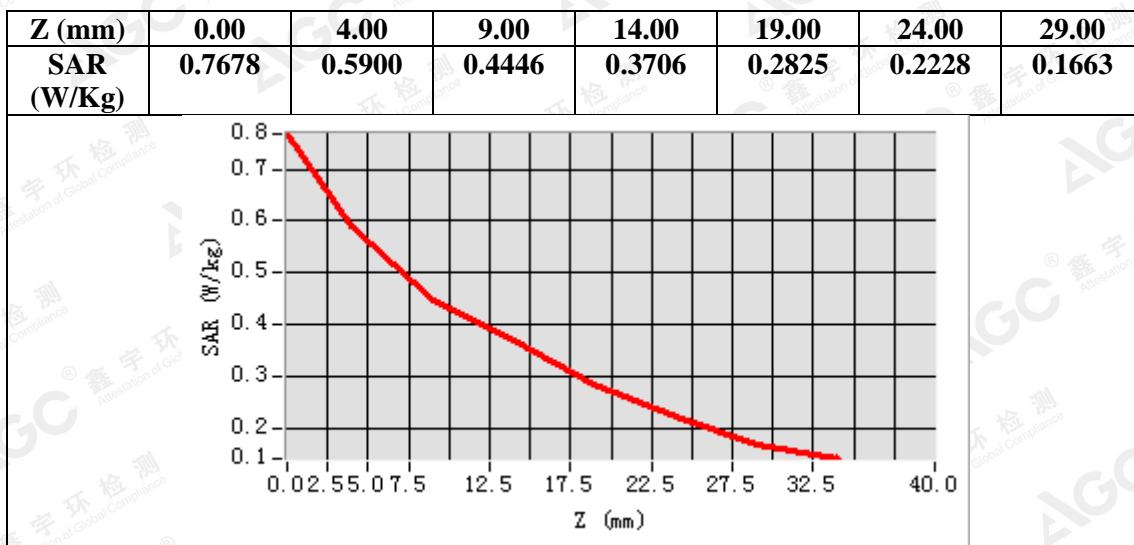
SAR Peak: 0.76 W/kg

| | |
|-----------------------|----------|
| SAR 10g (W/Kg) | 0.424236 |
| SAR 1g (W/Kg) | 0.573471 |

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Test Laboratory: AGC Lab
PCS 1900 Mid-Touch-Right <SIM 1>
DUT: Smart Phone; Type: Cirrus C2

Date: Aug. 01,2018

Communication System: Generic GSM; Communication System Band: PCS 1900; Duty Cycle: 1:8.3; Conv.F=5.74; Frequency: 1880 MHz; Medium parameters used: $f = 1900$ MHz; $\sigma = 1.40$ mho/m; $\epsilon_r = 40.35$; $\rho = 1000$ kg/m³ ; Phantom section: Right Section
 Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.1

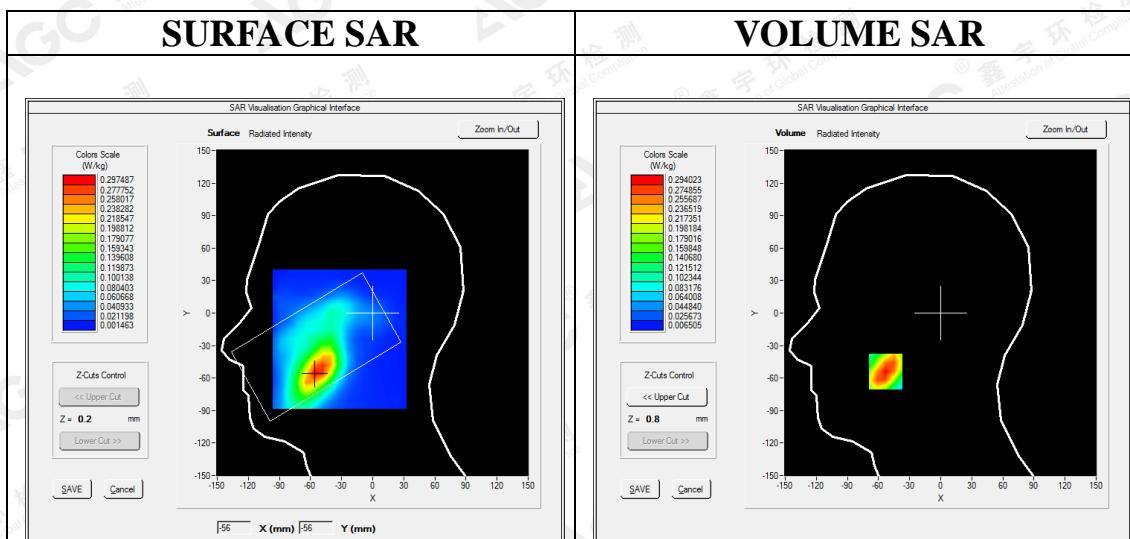
SATIMO Configuration:

- Probe: SSE2; Calibrated:Aug. 08,2017; Serial No.: SN 08/16 EPGO282
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_35

Configuration/PCS1900 Mid-Touch-Right/Area Scan: Measurement grid: dx=8mm, dy=8mm

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

| | |
|------------------------|-------------------------------------|
| Area Scan | sam_direct_droit2_surf8mm.txt |
| ZoomScan | 5x5x7,dx=8mm dy=8mm dz=5mm,Complete |
| Phantom | Right head |
| Device Position | Cheek |
| Band | PCS 1900 |
| Channels | Middle |
| Signal | TDMA (Crest factor: 8.0) |



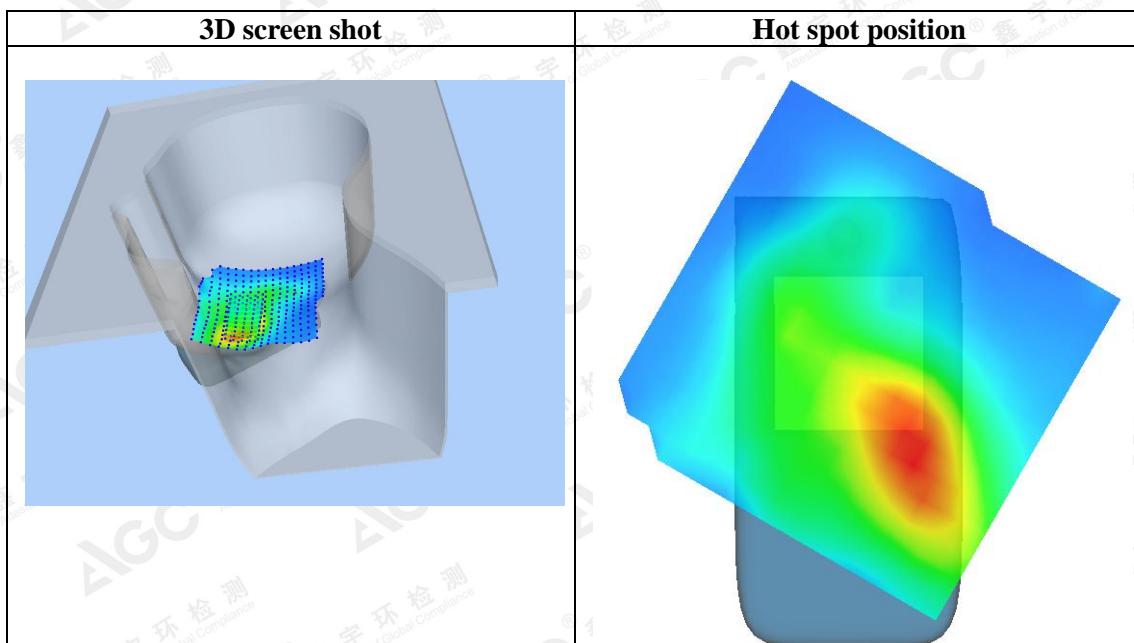
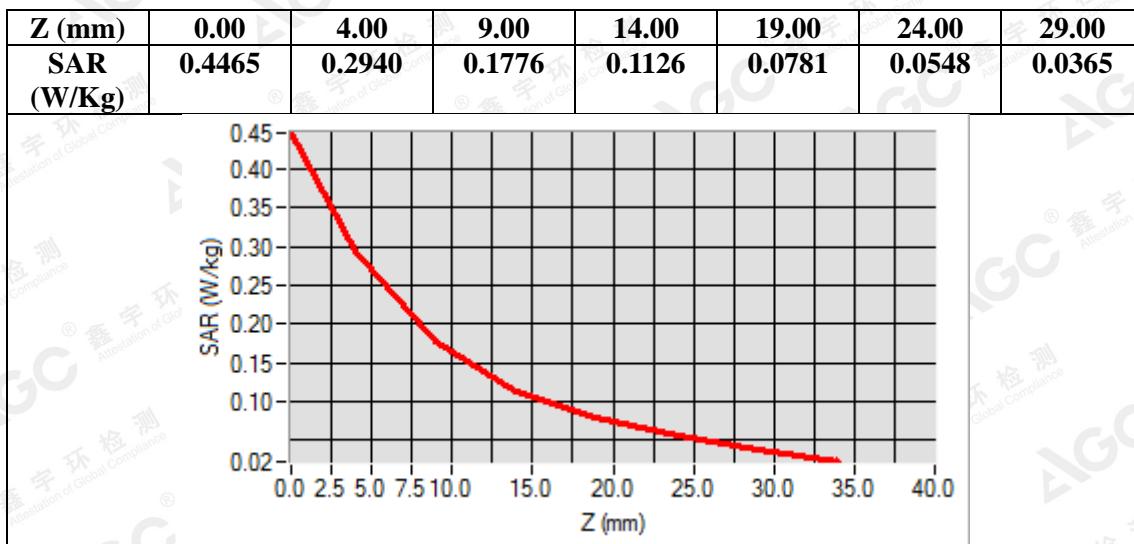
Maximum location: X=-53.00, Y=-54.00
SAR Peak: 0.47 W/kg

| | |
|-----------------------|----------|
| SAR 10g (W/Kg) | 0.163020 |
| SAR 1g (W/Kg) | 0.286222 |

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Test Laboratory: AGC Lab
PCS 1900 Mid-Body-Back (MS)<SIM 1>
DUT: Smart Phone; Type: Cirrus C2

Date: Aug. 01,2018

Communication System: Generic GSM; Communication System Band: PCS 1900; Duty Cycle: 1:8.3; Conv.F=5.90; Frequency: 1880 MHz; Medium parameters used: $f = 1900$ MHz; $\sigma = 1.50$ mho/m; $\epsilon_r = 53.37$; $\rho = 1000$ kg/m³ ; Phantom section: Flat Section
Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.3

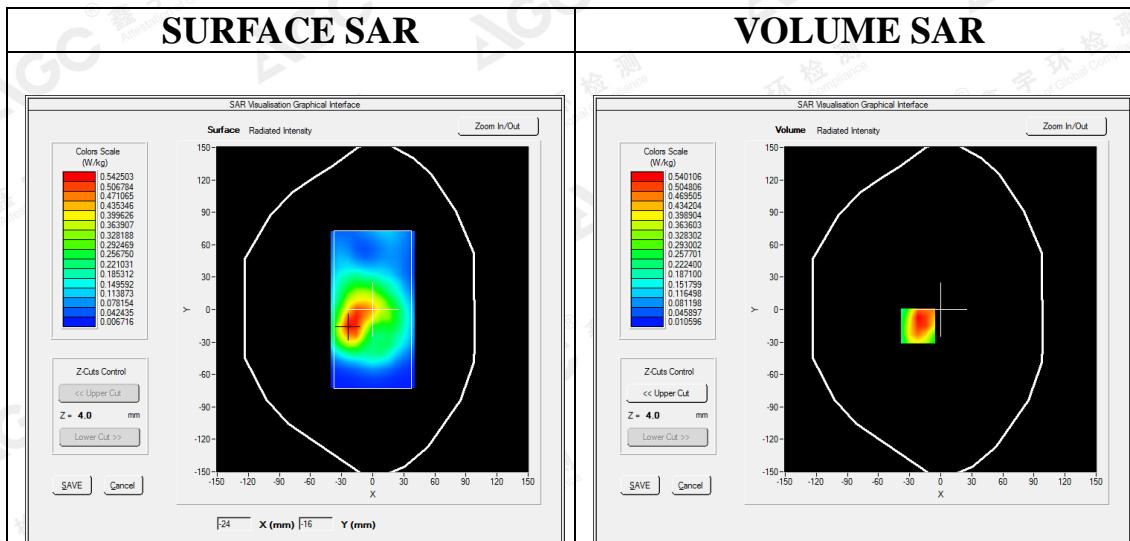
SATIMO Configuration:

- Probe: SSE2; Calibrated:Aug. 08,2017; Serial No.: SN 08/16 EPGO282
- 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 | sam_direct_droit2_surf8mm.txt |
| ZoomScan | 5x5x7,dx=8mm dy=8mm dz=5mm,Complete |
| Phantom | Validation plane |
| Device Position | Body Back |
| Band | PCS 1900 |
| Channels | Middle |
| Signal | TDMA (Crest factor: 8.0) |



Maximum location: X=-22.00, Y=-15.00

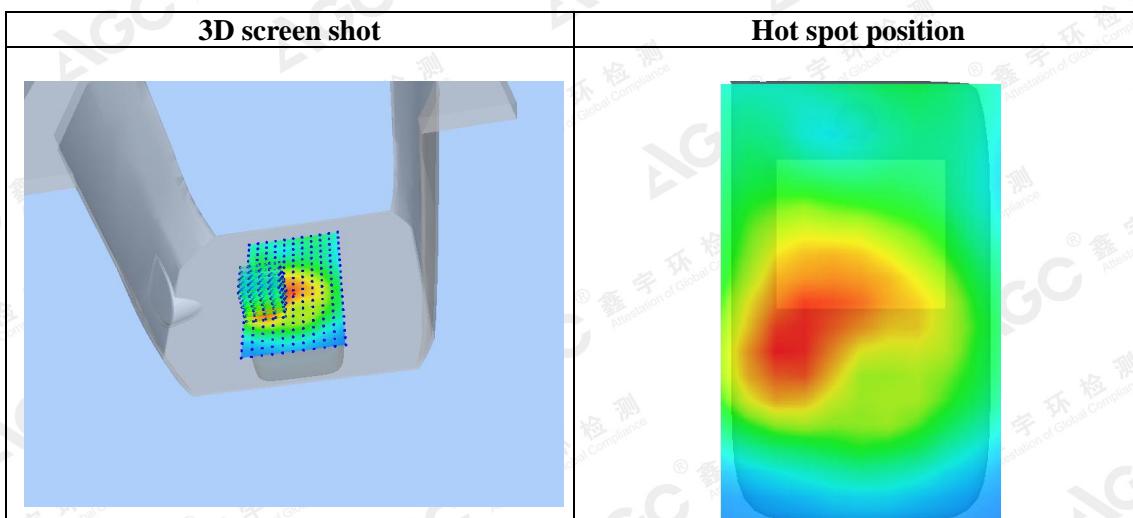
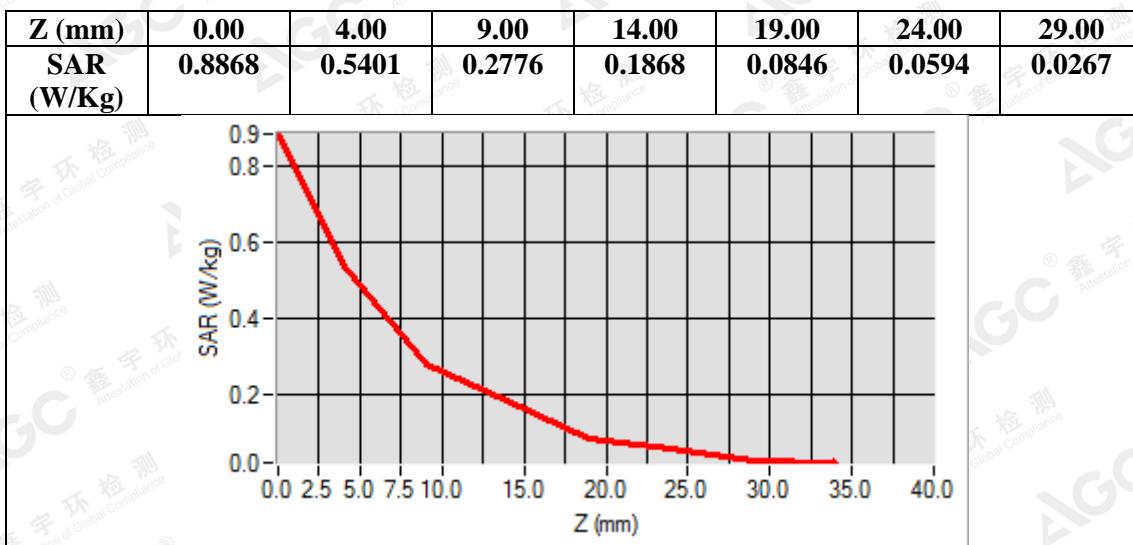
SAR Peak: 0.86 W/kg

| | |
|-----------------------|----------|
| SAR 10g (W/Kg) | 0.293548 |
| SAR 1g (W/Kg) | 0.520346 |

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Test Laboratory: AGC Lab
GPRS 1900 Low-Body-Back (4up)
DUT: Smart Phone; Type: Cirrus C2

Date: Aug. 01,2018

Communication System: GPRS-4Slot; Communication System Band: PCS 1900; Duty Cycle: 1:2.1; Conv.F=5.90;
 Frequency: 1850.2 MHz; Medium parameters used: $f = 1900$ MHz; $\sigma = 1.46$ mho/m; $\epsilon_r = 54.22$; $\rho = 1000$ kg/m³ ;
 Phantom section: Flat Section
 Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.3

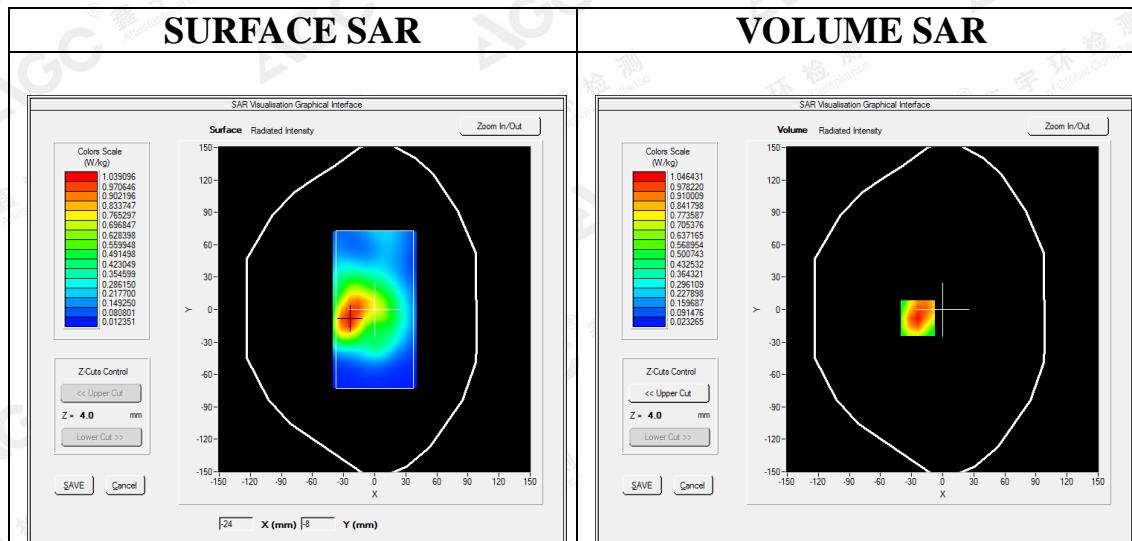
SATIMO Configuration:

- Probe: SSE2; Calibrated:Aug. 08,2017; Serial No.: SN 08/16 EPGO282
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

Configuration/GPRS1900 Low -Body-Back/Area Scan: Measurement grid: dx=8mm, dy=8mm

Configuration/GPRS1900 Low -Body-Back/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm;

| | |
|------------------------|-------------------------------------|
| Area Scan | sam_direct_droit2_surf8mm.txt |
| Zoom Scan | 5x5x7,dx=8mm dy=8mm dz=5mm,Complete |
| Phantom | Validation plane |
| Device Position | Body Back |
| Band | PCS 1900 |
| Channels | Low |
| Signal | TDMA (Crest factor: 2.0) |



Maximum location: X=-24.00, Y=-8.00

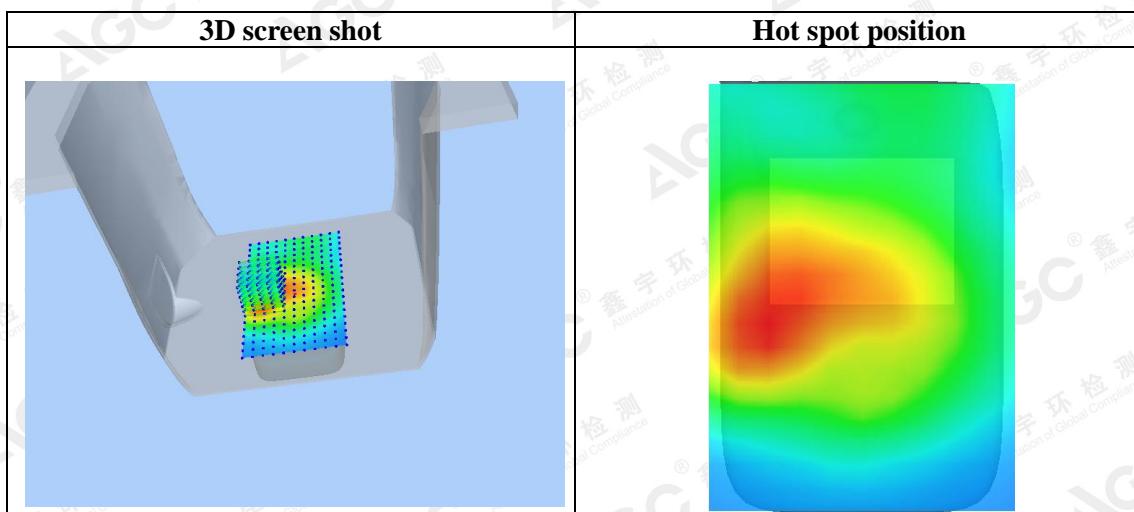
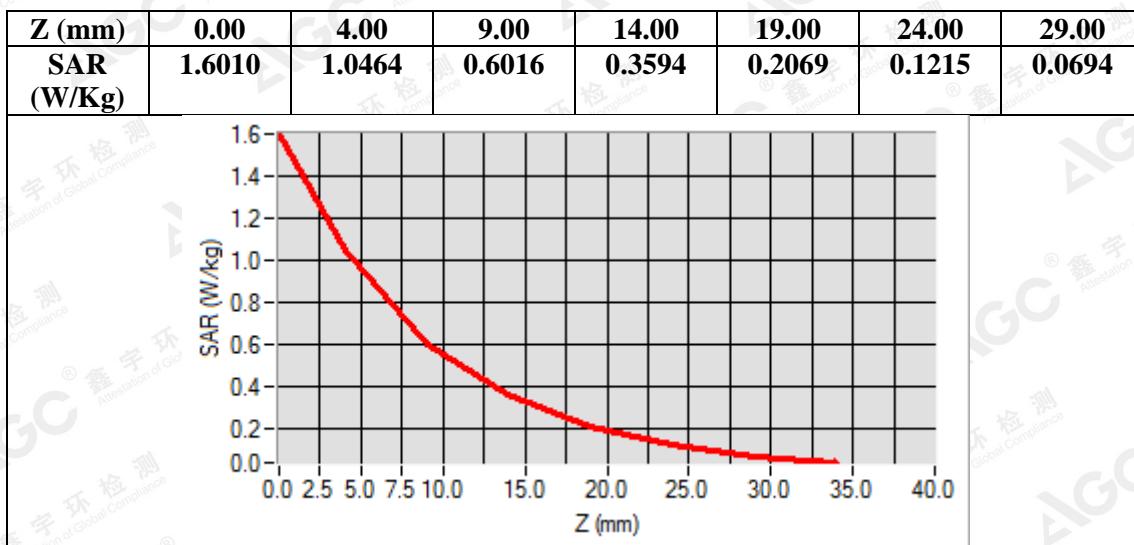
SAR Peak: 1.61 W/kg

| | |
|-----------------------|----------|
| SAR 10g (W/Kg) | 0.569666 |
| SAR 1g (W/Kg) | 0.995661 |

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Attestation of Global Compliance

Test Laboratory: AGC Lab
WCDMA Band II Mid-Touch-Right (RMC)
DUT: Smart Phone; Type: Cirrus C2

Date: Aug. 01,2018

Communication System: UMTS; Communication System Band: Band II UTRA/FDD ;Duty Cycle:1:1; Conv.F=5.74;
 Frequency: 1880 MHz; Medium parameters used: $f = 1900$ MHz; $\sigma = 1.40$ mho/m; $\epsilon_r = 40.35$; $\rho = 1000$ kg/m³ ;
 Phantom section: Right Section
 Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.1

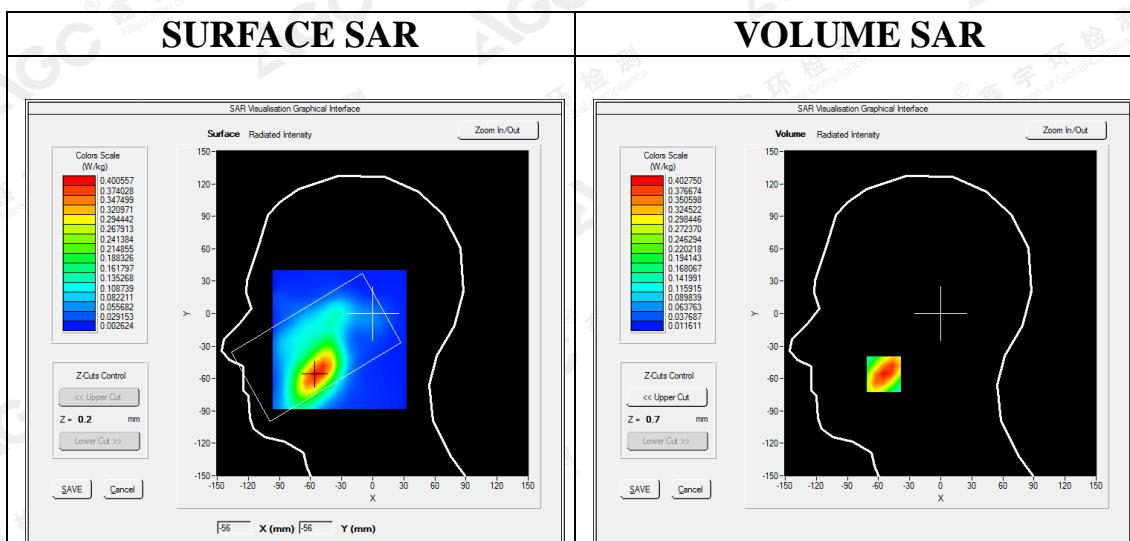
SATIMO Configuration:

- Probe: SSE2; Calibrated:Aug. 08,2017; Serial No.: SN 08/16 EPGO282
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_35

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

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

| | |
|------------------------|-------------------------------------|
| Area Scan | sam_direct_droit2_surf8mm.txt |
| ZoomScan | 5x5x7,dx=8mm dy=8mm dz=5mm,Complete |
| Phantom | Right head |
| Device Position | Cheek |
| Band | WCDMA band II |
| Channels | Middle |
| Signal | CDMA (Crest factor: 1.0) |



Maximum location: X=-55.00, Y=-56.00
SAR Peak: 0.58 W/kg

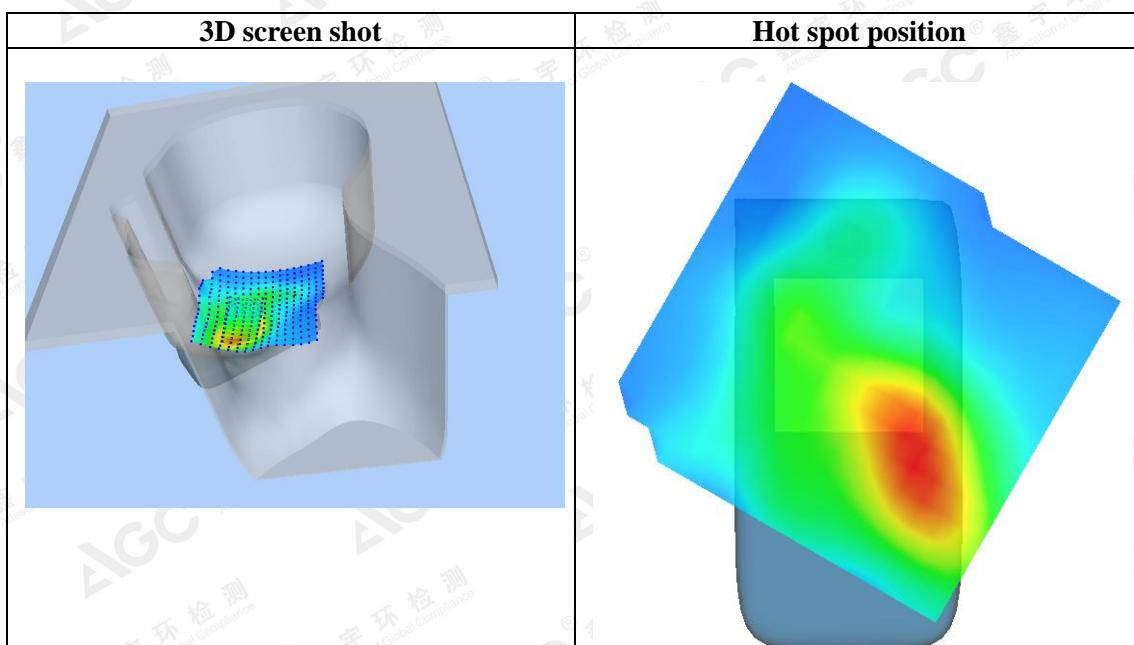
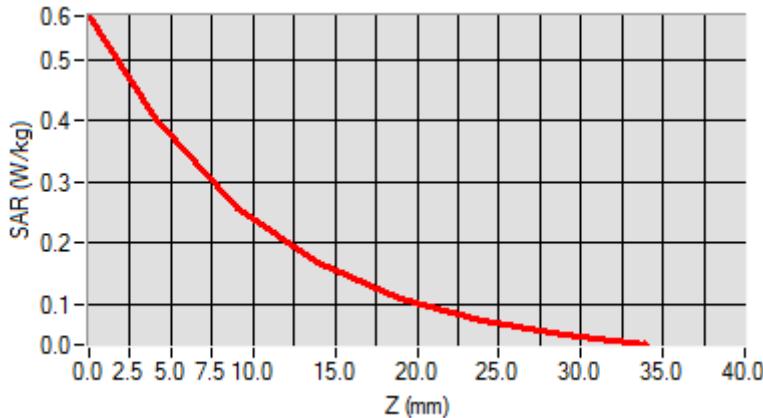
| | |
|-----------------------|----------|
| SAR 10g (W/Kg) | 0.226699 |
| SAR 1g (W/Kg) | 0.382479 |

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| Z (mm) | 0.00 | 4.00 | 9.00 | 14.00 | 19.00 | 24.00 | 29.00 |
|------------|--------|--------|--------|--------|--------|--------|--------|
| SAR (W/Kg) | 0.5709 | 0.4027 | 0.2575 | 0.1662 | 0.1080 | 0.0715 | 0.0488 |



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Test Laboratory: AGC Lab
WCDMA Band II Mid-Body-Towards Grounds (RMC 12.2kbps)
DUT: Smart Phone; Type: Cirrus C2

Date: Aug. 01,2018

Communication System: UMTS; Communication System Band: Band II UTRA/FDD ;Duty Cycle:1:1; Conv.F=5.90;
 Frequency: 1880 MHz; Medium parameters used: $f = 1900$ MHz; $\sigma = 1.50$ mho/m; $\epsilon_r = 53.37$; $\rho = 1000$ kg/m³ ;
 Phantom section: Flat Section
 Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.3

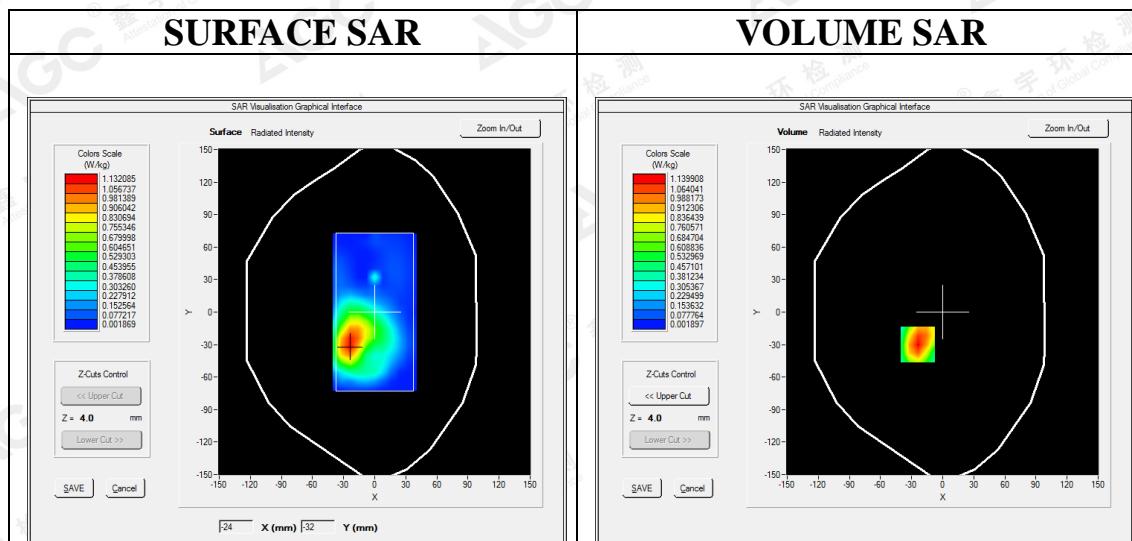
SATIMO Configuration:

- Probe: SSE2; Calibrated:Aug. 08,2017; Serial No.: SN 08/16 EPGO282
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_35

Configuration/ WCDMA band II Mid-Body-back/Area Scan: Measurement grid: dx=8mm, dy=8mm

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

| | |
|------------------------|-------------------------------------|
| Area Scan | sam_direct_droit2_surf8mm.txt |
| ZoomScan | 5x5x7,dx=8mm dy=8mm dz=5mm,Complete |
| Phantom | Validation plane |
| Device Position | Body Back |
| Band | WCDMA band II |
| Channels | Middle |
| Signal | CDMA (Crest factor: 1.0) |



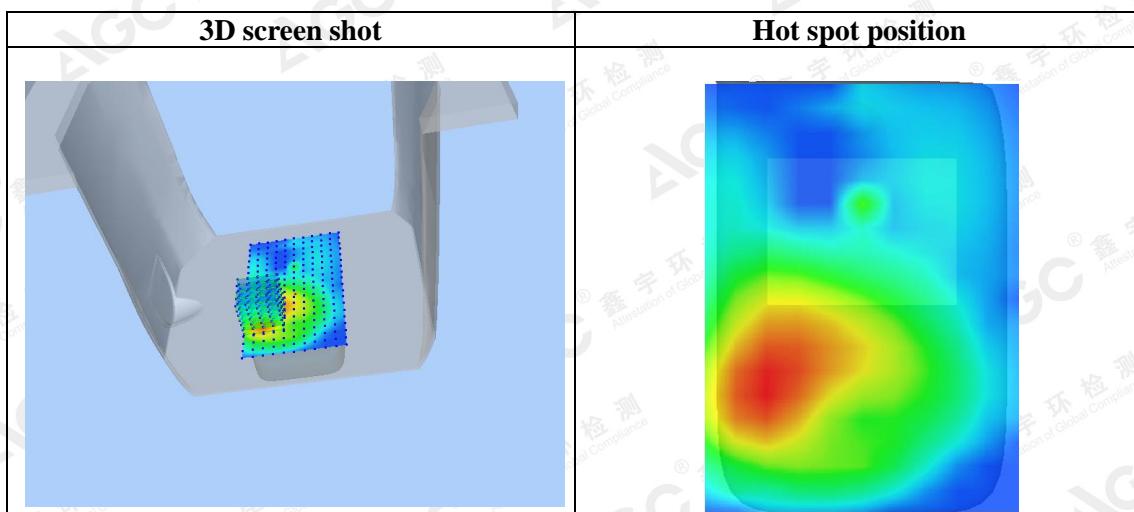
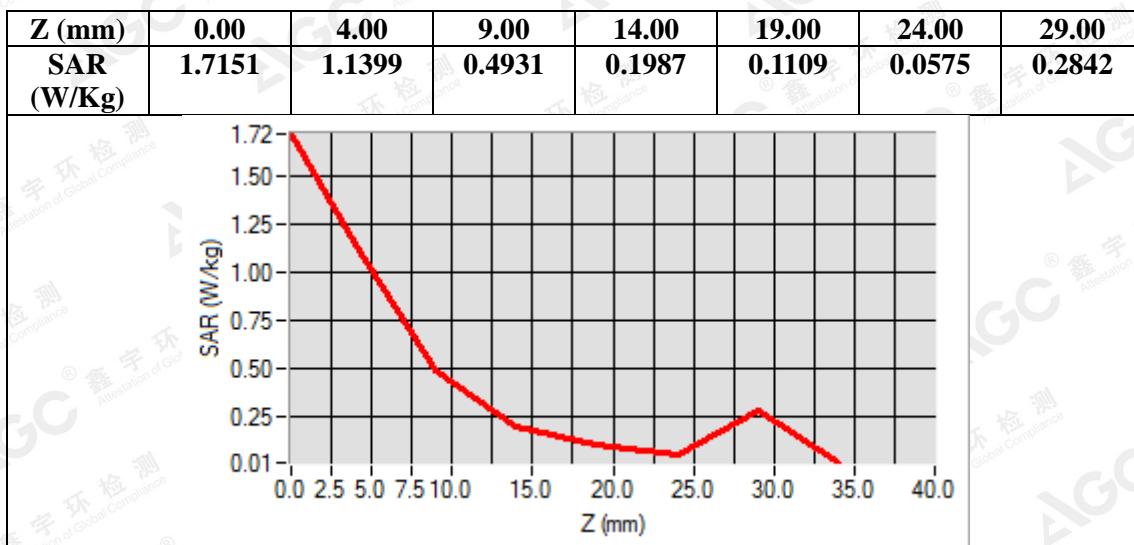
Maximum location: X=-24.00, Y=-30.00

SAR Peak: 1.91 W/kg

| | |
|-----------------------|----------|
| SAR 10g (W/Kg) | 0.502099 |
| SAR 1g (W/Kg) | 1.028852 |

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Attestation of Global Compliance

Test Laboratory: AGC Lab
WCDMA Band IV Mid-Touch-Right (RMC)
DUT: Smart Phone; Type: Cirrus C2

Date: Aug. 05,2018

Communication System: UMTS; Communication System Band: BAND IV UTRA/FDD; Duty Cycle:1: 1; Conv.F=2.32;
Frequency: 1732.5 MHz; Medium parameters used: $f = 1800\text{MHz}$; $\sigma = 1.35\text{mho/m}$; $\epsilon_r = 41.03$; $\rho = 1000 \text{ kg/m}^3$;
Phantom section: Right Section
Ambient temperature (°C): 22.0, Liquid temperature (°C): 21.4

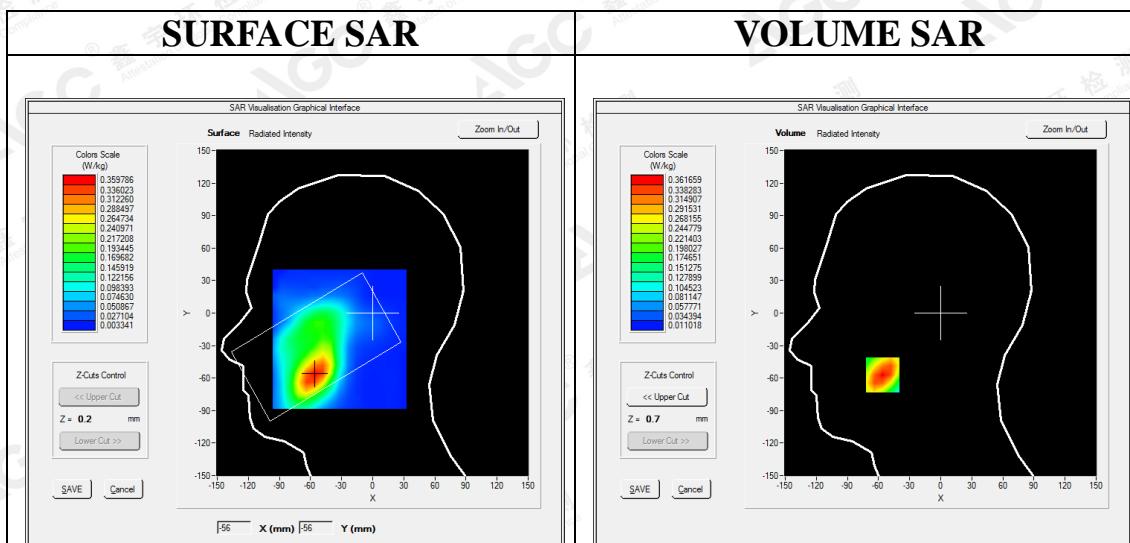
SATIMO Configuration:

- Probe: SSE2; Calibrated:Aug. 08,2017; Serial No.: SN 08/16 EPGO282
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_35

Configuration/ WCDMA BandIVMid-Touch-Right/Area Scan: Measurement grid: dx=8mm, dy=8mm

Configuration/ WCDMA BandIVMid-Touch-Right/Zoom Scan: Measurement grid: dx=8mm, dy=8mm, dz=5mm

| | |
|------------------------|-------------------------------------|
| Area Scan | sam_direct_droit2_surf8mm.txt |
| ZoomScan | 5x5x7,dx=8mm dy=8mm dz=5mm,Complete |
| Phantom | Right head |
| Device Position | Cheek |
| Band | WCDMA Band IV |
| Channels | Middle |
| Signal | CDMA (Crest factor: 1.0) |



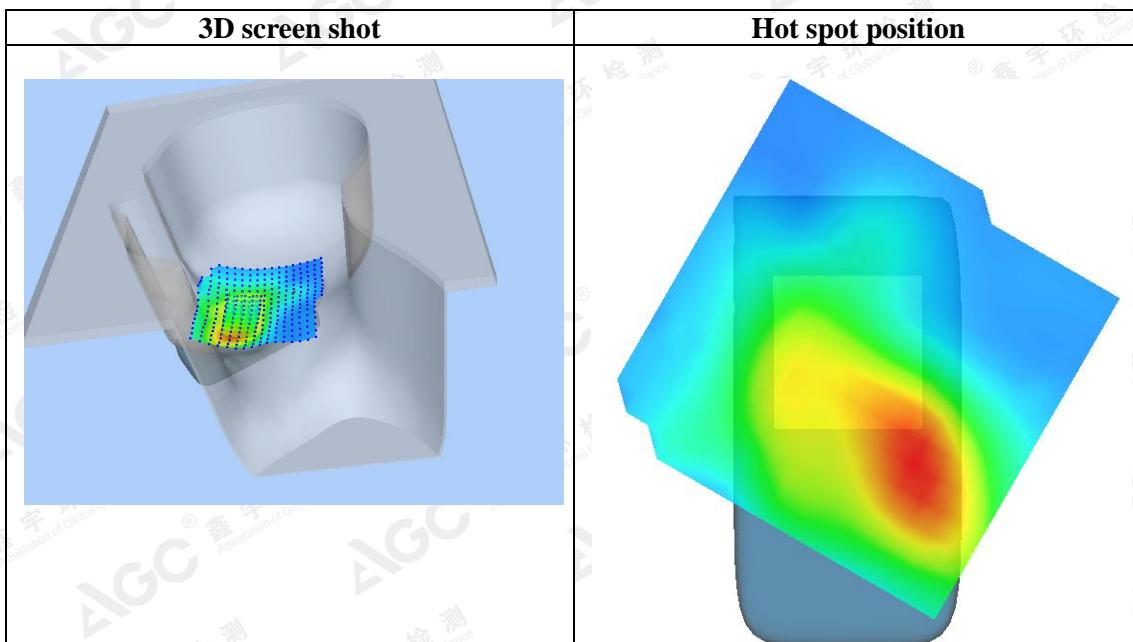
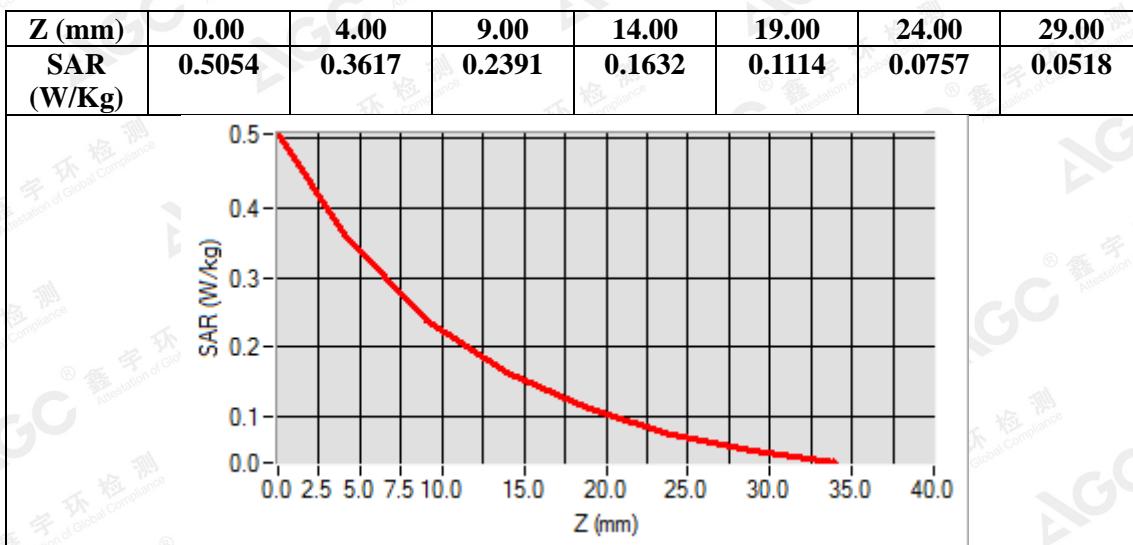
Maximum location: X=-56.00, Y=-57.00
SAR Peak: 0.51 W/kg

| | |
|-----------------------|----------|
| SAR 10g (W/Kg) | 0.212196 |
| SAR 1g (W/Kg) | 0.344608 |

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Test Laboratory: AGC Lab
WCDMA Band IV Mid-Body-Towards Grounds (RMC)
DUT: Smart Phone; Type: Cirrus C2

Date: Aug. 05,2018

Communication System: UMTS; Communication System Band: BAND IV UTRA/FDD; Duty Cycle: 1: 1; Conv.F=5.08
 Frequency: 1732.5 MHz; Medium parameters used: $f = 1800\text{MHz}$; $\sigma = 1.48 \text{ mho/m}$; $\epsilon_r = 54.71$; $\rho = 1000 \text{ kg/m}^3$;
 Phantom section: Flat Section
 Ambient temperature (°C): 22.0, Liquid temperature (°C): 21.6

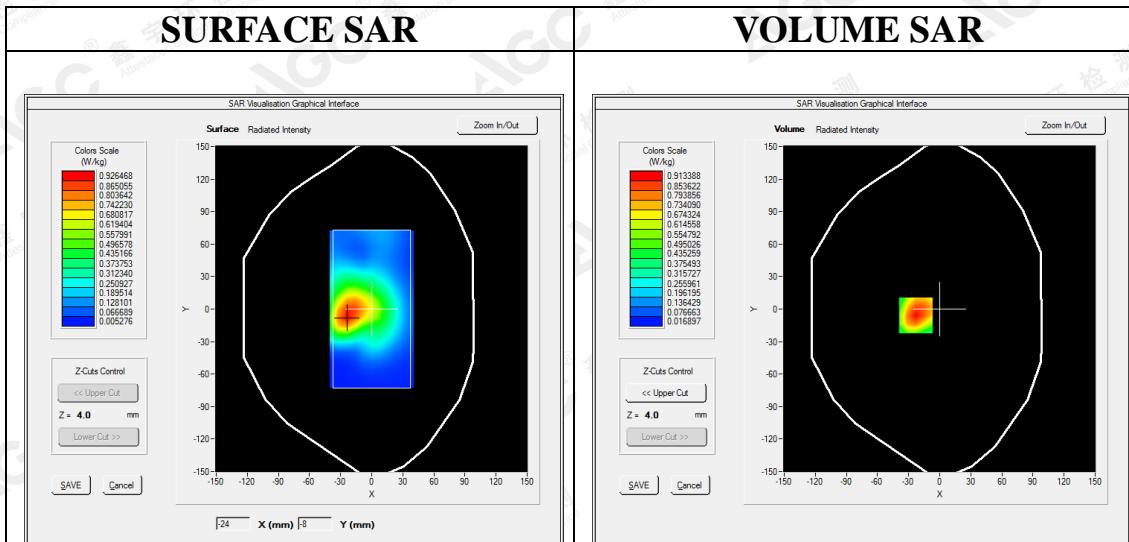
SATIMO Configuration:

- Probe: SSE2; Calibrated: Aug. 08, 2017; Serial No.: SN 08/16 EPGO282
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_35

Configuration/ WCDMA Band IVMid-Body-Back/Area Scan: Measurement grid: dx=8mm, dy=8mm

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

| | |
|------------------------|-------------------------------------|
| Area Scan | sam_direct_droit2_surf8mm.txt |
| ZoomScan | 5x5x7,dx=8mm dy=8mm dz=5mm,Complete |
| Phantom | Validation plane |
| Device Position | Body Back |
| Band | WCDMA Band IV |
| Channels | Middle |
| Signal | CDMA (Crest factor: 1.0) |



Maximum location: X=-23.00, Y=-6.00
SAR Peak: 1.38 W/kg

| | |
|-----------------------|----------|
| SAR 10g (W/Kg) | 0.504118 |
| SAR 1g (W/Kg) | 0.872618 |

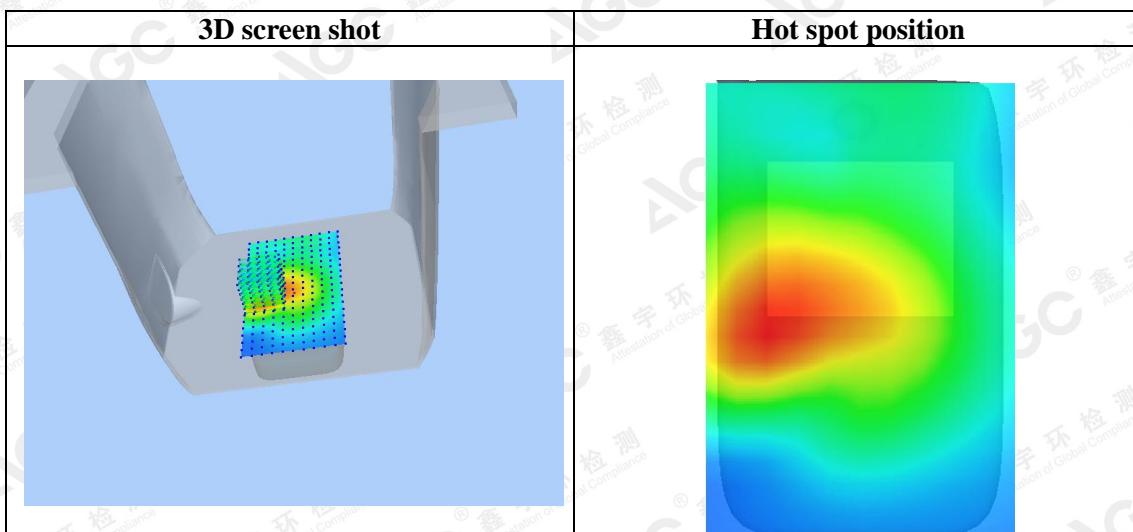
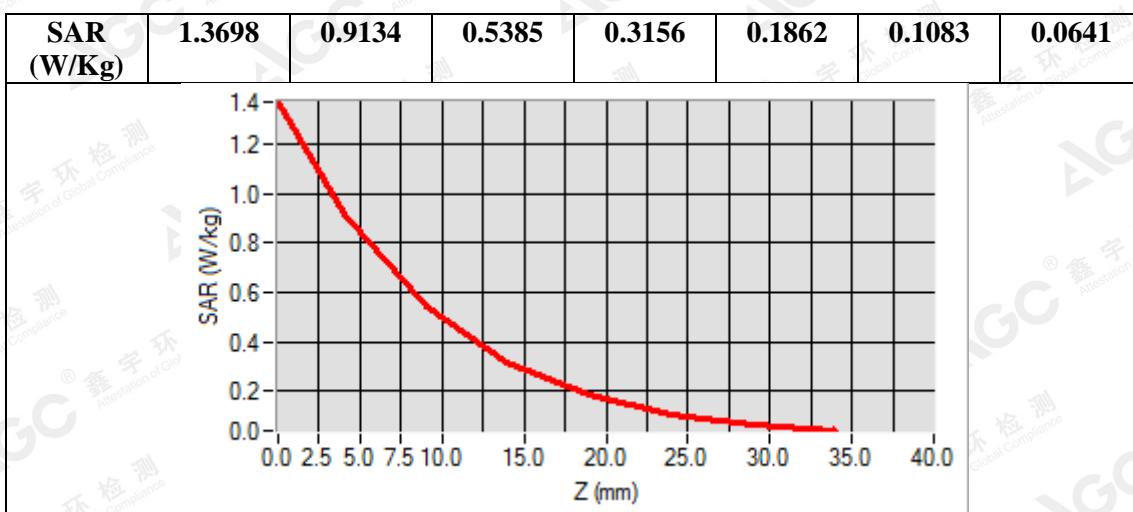
| | | | | | | | |
|---------------|-------------|-------------|-------------|--------------|--------------|--------------|--------------|
| Z (mm) | 0.00 | 4.00 | 9.00 | 14.00 | 19.00 | 24.00 | 29.00 |
|---------------|-------------|-------------|-------------|--------------|--------------|--------------|--------------|

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Attestation of Global Compliance

Test Laboratory: AGC Lab
WCDMA Band V Mid-Touch-Left (RMC)
DUT: Smart Phone; **Type:** Cirrus C2

Date: Aug. 06,2018

Communication System: UMTS; Communication System Band: BAND V UTRA/FDD ; Duty Cycle:1: 1; Conv.F=1.74;
 Frequency: 836.6 MHz; Medium parameters used: $f = 835\text{MHz}$; $\sigma=0.93 \text{ mho/m}$; $\epsilon_r =40.75$; $\rho= 1000 \text{ kg/m}^3$;
 Phantom section: Left Section
 Ambient temperature (°C): 23.2, Liquid temperature (°C): 22.5

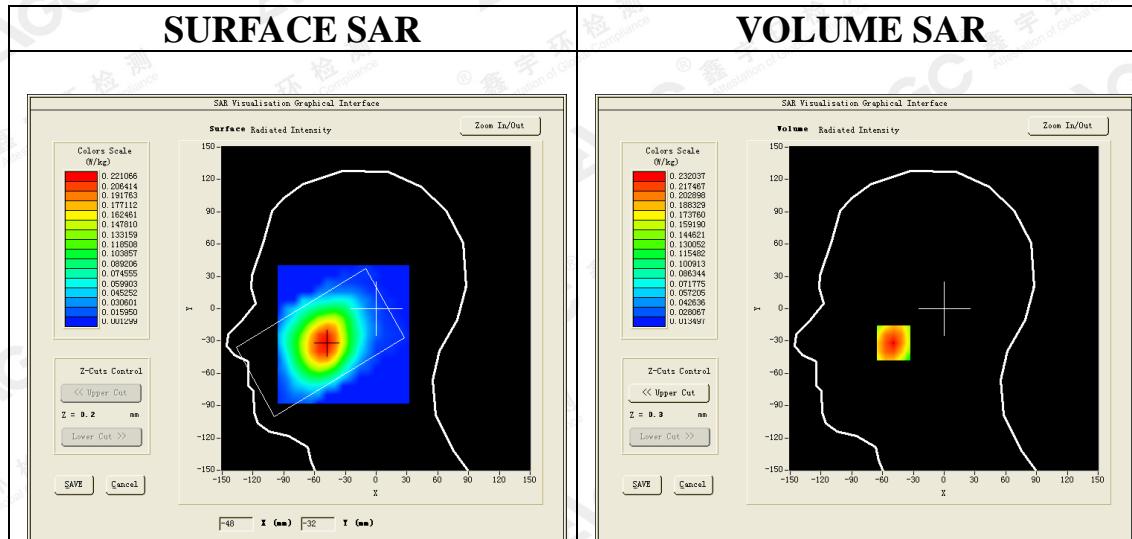
SATIMO Configuration:

- Probe: SSE2; Calibrated:Aug. 08,2017; Serial No.: SN 08/16 EPGO282
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

Configuration/ WCDMA Band V Mid-Touch-Left/Area Scan: Measurement grid: dx=8mm, dy=8mm

Configuration/ WCDMA Band V Mid-Touch-Left/Zoom Scan: Measurement grid: dx=8mm, dy=8mm, dz=5mm

| | |
|------------------------|-------------------------------------|
| Area Scan | sam_direct_droit2_surf8mm.txt |
| ZoomScan | 5x5x7,dx=8mm dy=8mm dz=5mm,Complete |
| Phantom | Left head |
| Device Position | Cheek |
| Band | WCDMA Band V |
| Channels | Middle |
| Signal | CDMA (Crest factor: 1.0) |



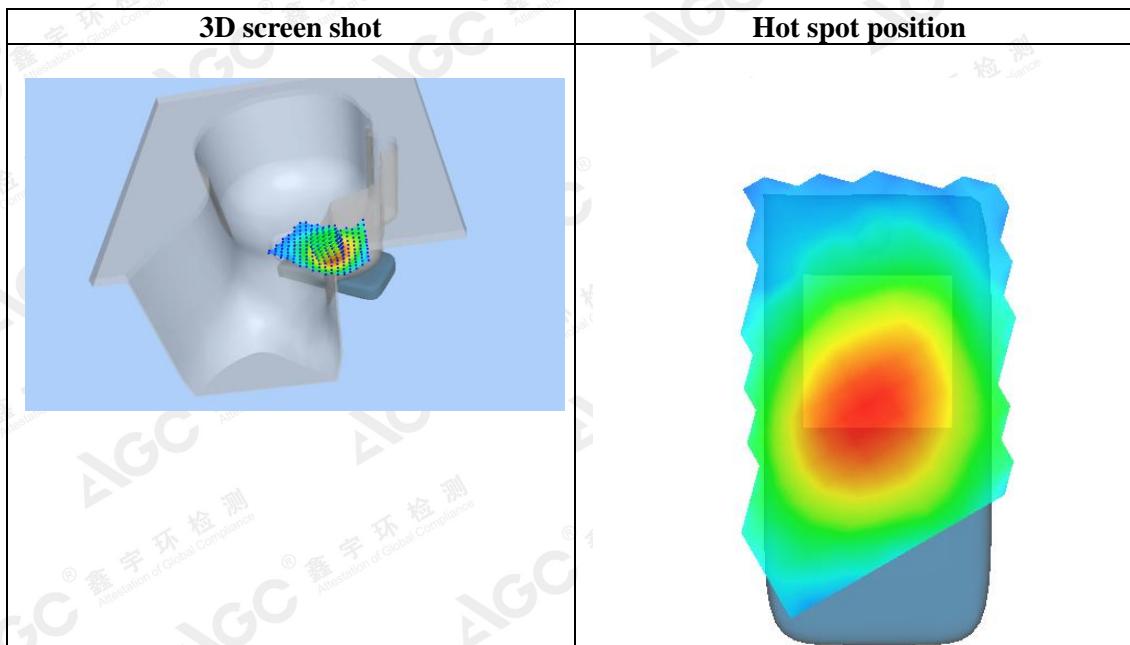
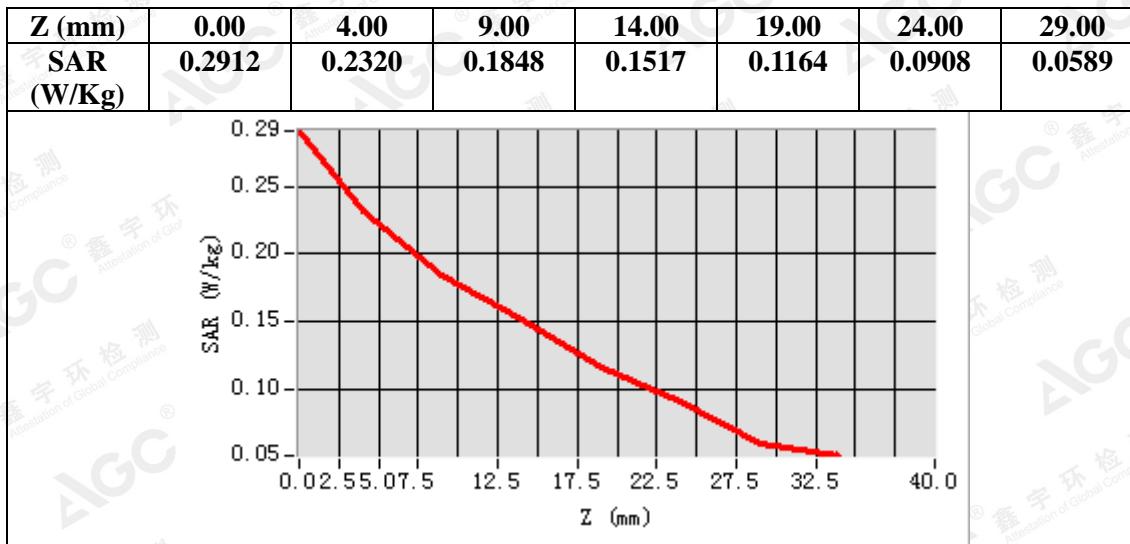
Maximum location: X=-49.00, Y=-32.00
SAR Peak: 0.29 W/kg

| | |
|-----------------------|----------|
| SAR 10g (W/Kg) | 0.165035 |
| SAR 1g (W/Kg) | 0.225349 |

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Attestation of Global Compliance

Test Laboratory: AGC Lab
Date: Aug. 06,2018
WCDMA Band V Mid-Body-Towards Grounds (RMC)
DUT: Smart Phone; Type: Cirrus C2

Communication System: UMTS; Communication System Band: BAND V UTRA/FDD; Duty Cycle:1: 1;Conv.F=1.81;
 Frequency: 836.6 MHz; Medium parameters used: $f = 835\text{MHz}$; $\sigma = 0.96 \text{ mho/m}$; $\epsilon_r = 54.58$; $\rho = 1000 \text{ kg/m}^3$;
 Phantom section: Flat Section
 Ambient temperature (°C): 23.2, Liquid temperature (°C): 22.7

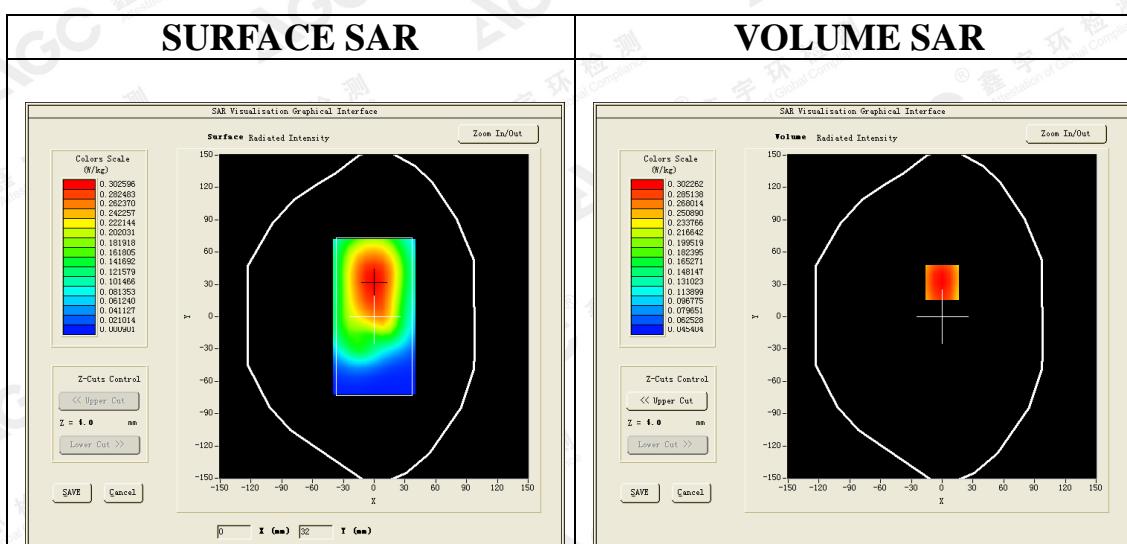
SATIMO Configuration:

- Probe: SSE2; Calibrated:Aug. 08,2017; Serial No.: SN 08/16 EPGO282
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

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

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

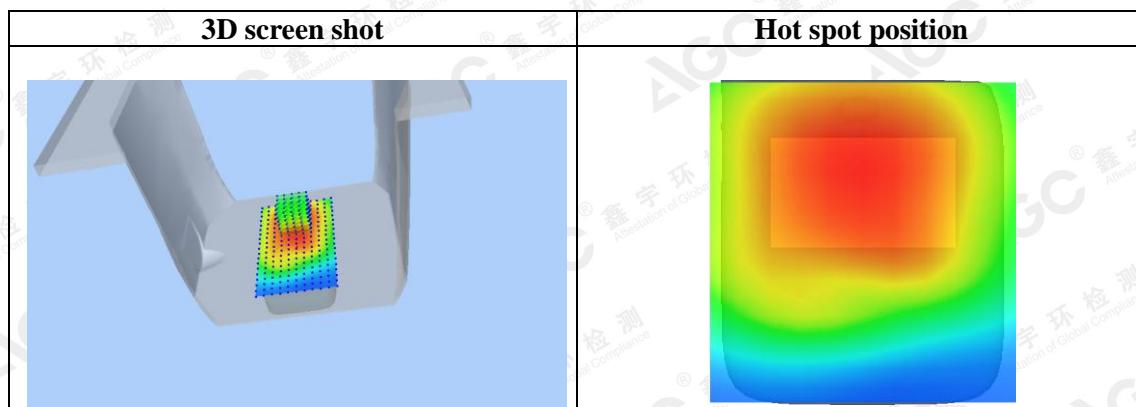
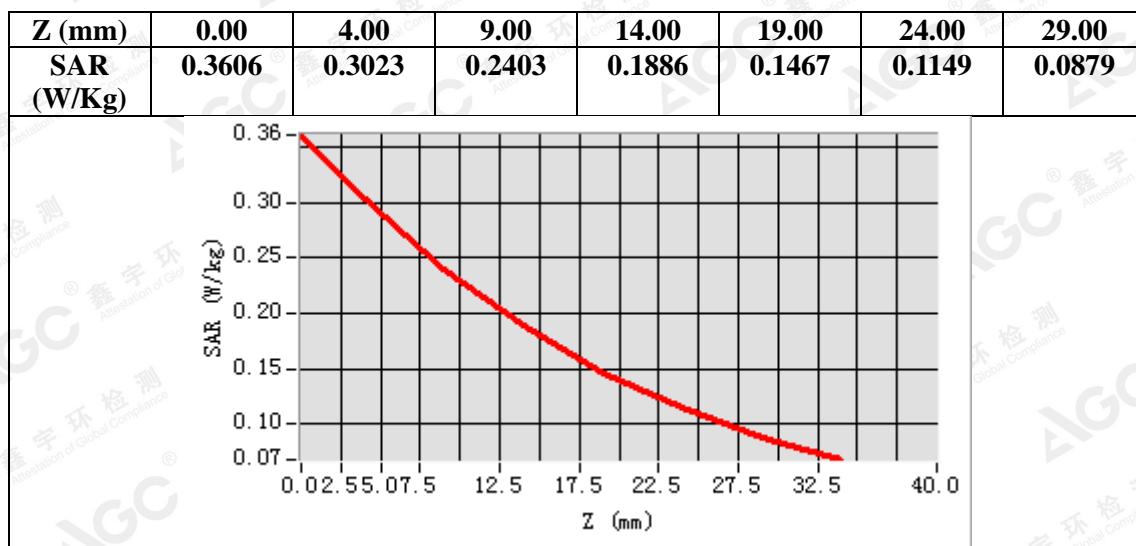
| | |
|------------------------|-------------------------------------|
| Area Scan | sam_direct_droit2_surf8mm.txt |
| ZoomScan | 5x5x7,dx=8mm dy=8mm dz=5mm,Complete |
| Phantom | Validation plane |
| Device Position | Body Back |
| Band | WCDMA Band V |
| Channels | Middle |
| Signal | CDMA (Crest factor: 1.0) |



| | |
|-----------------------|----------|
| SAR 10g (W/Kg) | 0.221801 |
| SAR 1g (W/Kg) | 0.293780 |

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Attestation of Global Compliance

WIFI MODE
Test Laboratory: AGC Lab
802.11b Mid- Touch-Right
DUT: Smart Phone; Type: Cirrus C2
Date: Aug. 03,2018

Communication System: Wi-Fi; Communication System Band: 802.11b; Duty Cycle: 1:1; Conv.F=5.19;
 Frequency: 2437 MHz; Medium parameters used: $f = 2450$ MHz; $\sigma = 1.78\text{mho/m}$; $\epsilon_r = 39.43$; $\rho = 1000 \text{ kg/m}^3$;
 Phantom section: Right Section
 Ambient temperature (°C): 21.9, Liquid temperature (°C): 21.3

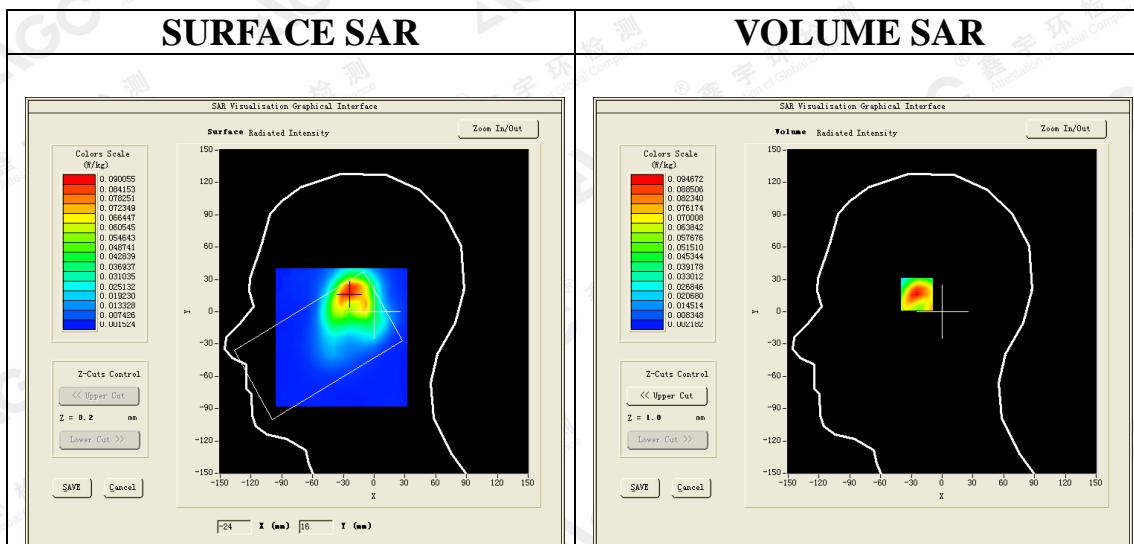
SATIMO Configuration:

- Probe: SSE2; Calibrated: Aug. 08,2017; Serial No.: SN 08/16 EPGO282
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

Configuration/802.11b Mid- Touch-Right /Area Scan: Measurement grid: dx=8mm, dy=8mm

Configuration/802.11b Mid- Touch-Right /Zoom Scan: Measurement grid: dx=5mm,dy=5mm, dz=5mm;

| | |
|------------------------|-------------------------------|
| Area Scan | sam_direct_droit2_surf8mm.txt |
| ZoomScan | 7x7x7,dx=5mm dy=5mm dz=5mm |
| Phantom | Right head |
| Device Position | Cheek |
| Band | 2450MHz |
| Channels | Middle |
| Signal | Crest factor: 1.0 |

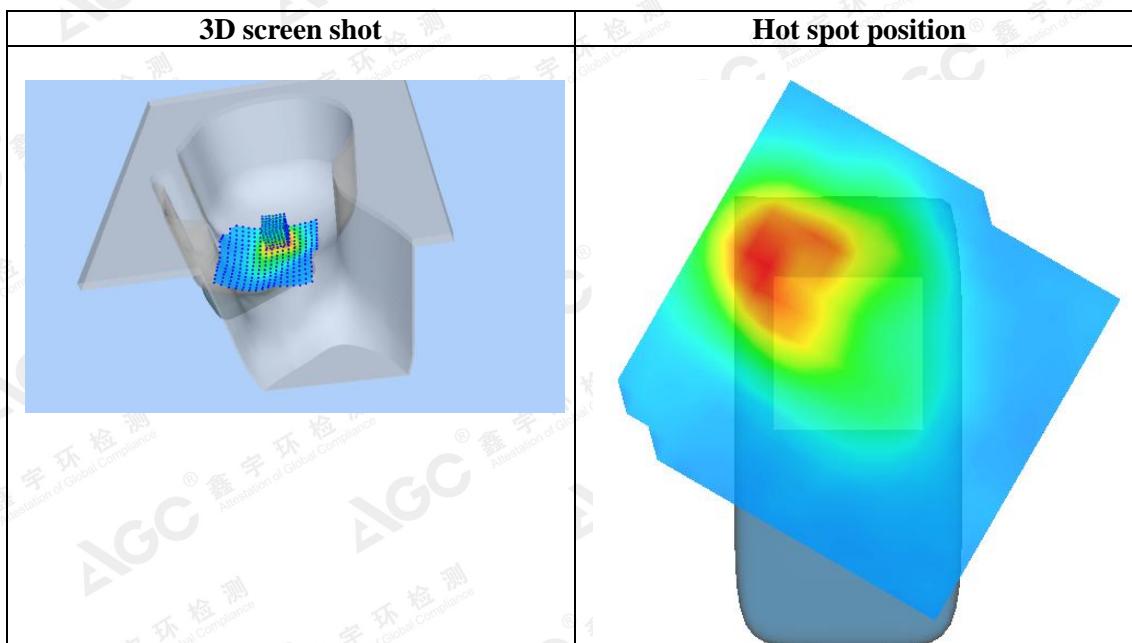
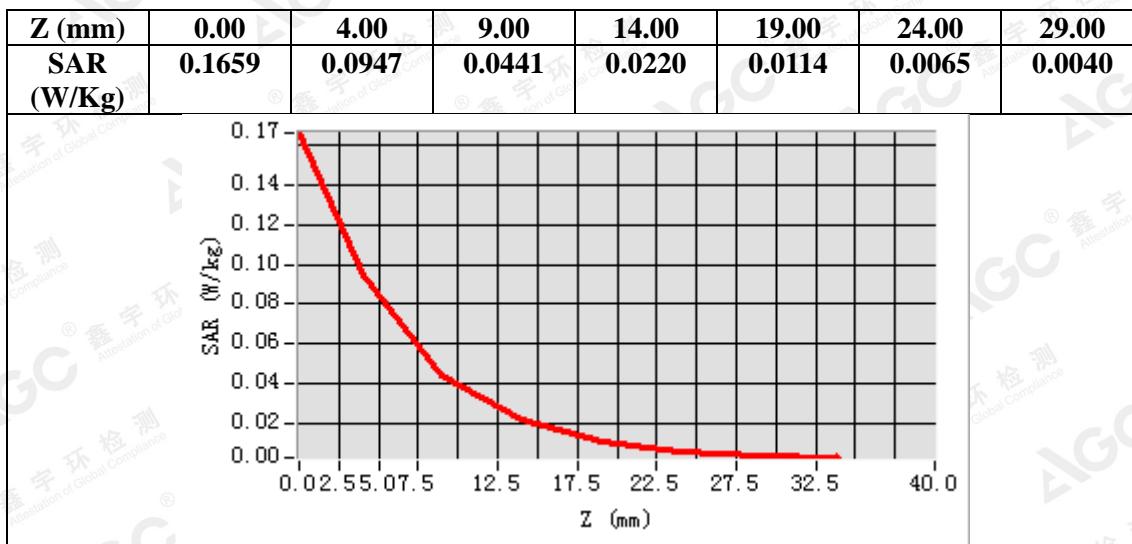


Maximum location: X=-24.00, Y=18.00
SAR Peak: 0.16 W/kg

| | |
|-----------------------|----------|
| SAR 10g (W/Kg) | 0.043508 |
| SAR 1g (W/Kg) | 0.088568 |

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Test Laboratory: AGC Lab
802.11b Mid-Body-Worn- Back (DTS)
DUT: Smart Phone; Type: Cirrus C2

Date: Aug. 03,2018

Communication System: Wi-Fi; Communication System Band: 802.11b; Duty Cycle: 1:1; Conv.F=5.33;
 Frequency: 2437 MHz; Medium parameters used: $f = 2450$ MHz; $\sigma = 1.90$ mho/m; $\epsilon_r = 53.47$; $\rho = 1000$ kg/m³ ;
 Phantom section: Flat Section
 Ambient temperature (°C): 21.9, Liquid temperature (°C): 21.5

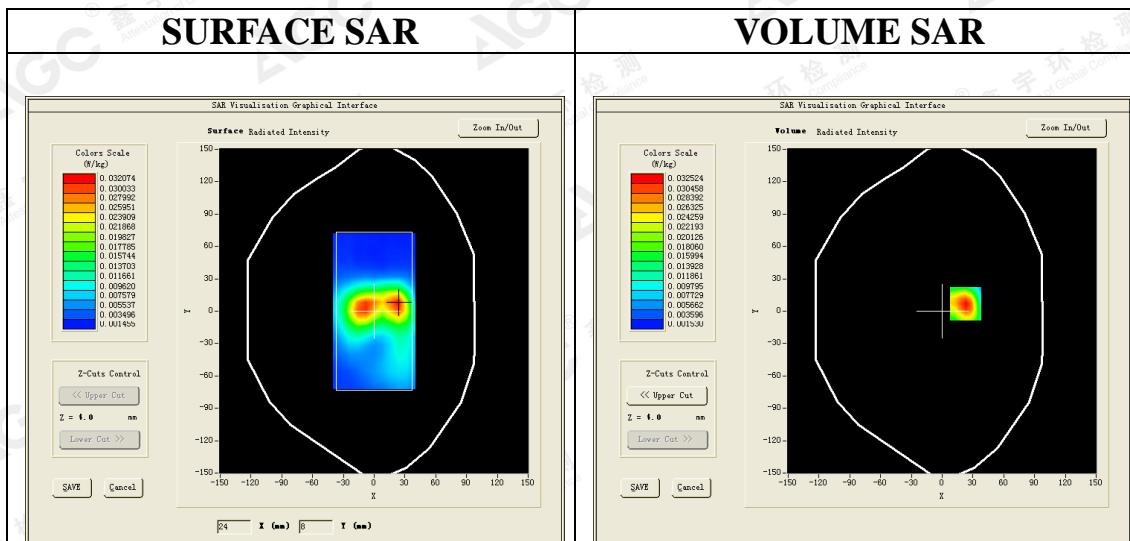
SATIMO Configuration:

- Probe: SSE2; Calibrated:Aug. 08,2017; Serial No.: SN 08/16 EPGO282
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

Configuration/802.11b Mid- Body- Back /Area Scan: Measurement grid: dx=8mm, dy=8mm

Configuration/802.11b Mid- Body- Back /Zoom Scan: Measurement grid: dx=5mm,dy=5mm, dz=5mm;

| | |
|------------------------|-------------------------------|
| Area Scan | sam_direct_droit2_surf8mm.txt |
| ZoomScan | 7x7x7,dx=5mm dy=5mm dz=5mm |
| Phantom | Validation plane |
| Device Position | Body Back |
| Band | 2450MHz |
| Channels | Middle |
| Signal | Crest factor: 1.0 |



Maximum location: X=23.00, Y=7.00

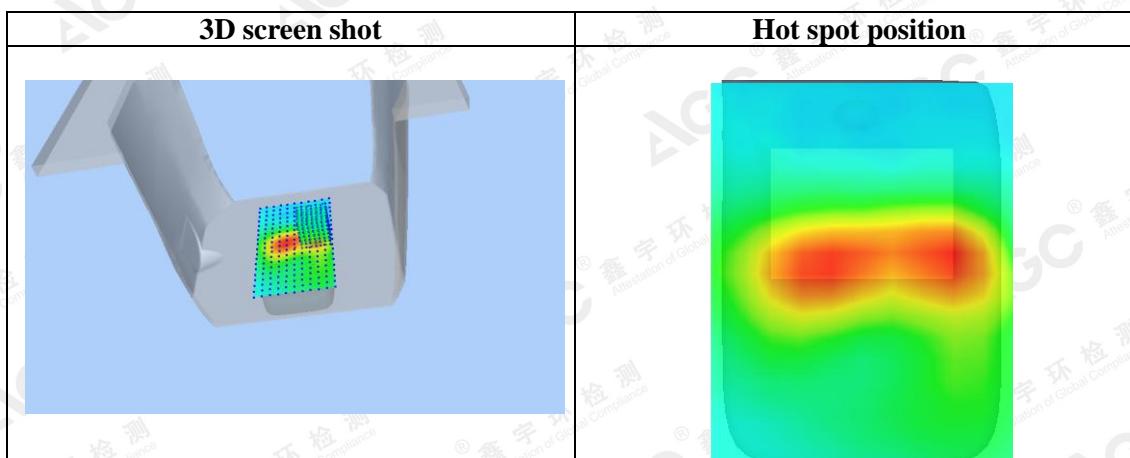
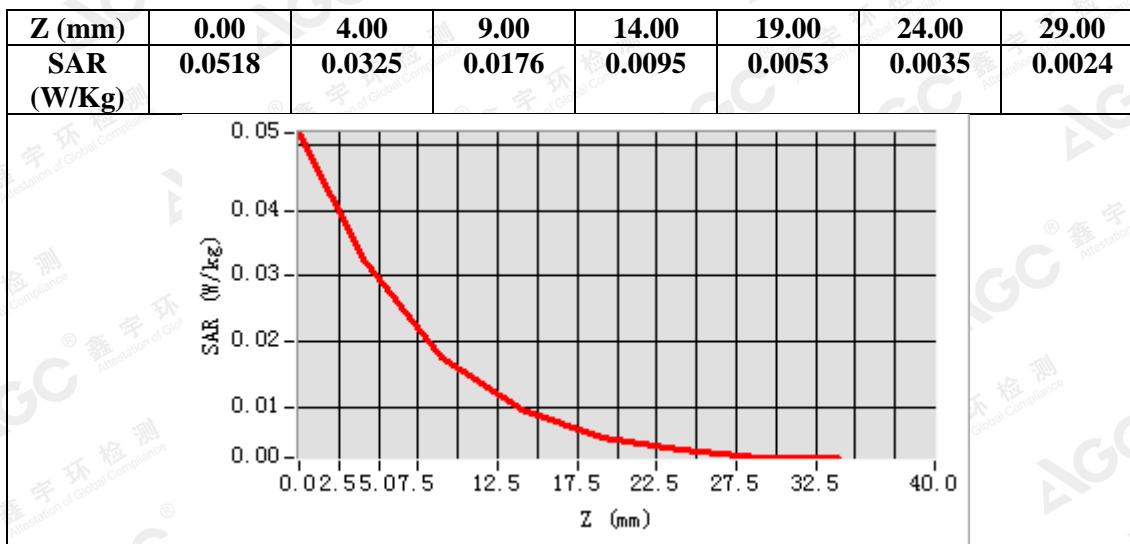
SAR Peak: 0.05 W/kg

| | |
|-----------------------|----------|
| SAR 10g (W/Kg) | 0.016047 |
| SAR 1g (W/Kg) | 0.030004 |

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Repeated SAR
Test Laboratory: AGC Lab
GPRS 1900 Low-Body-Back (4up)
DUT: Smart Phone; Type: Cirrus C2
Date: Aug. 01,2018

Communication System: GPRS-4Slot; Communication System Band: PCS 1900; Duty Cycle: 1:2.1; Conv.F=5.90; Frequency: 1850.2 MHz; Medium parameters used: $f = 1900$ MHz; $\sigma = 1.46$ mho/m; $\epsilon_r = 54.22$; $\rho = 1000$ kg/m³ ; Phantom section: Flat Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.3

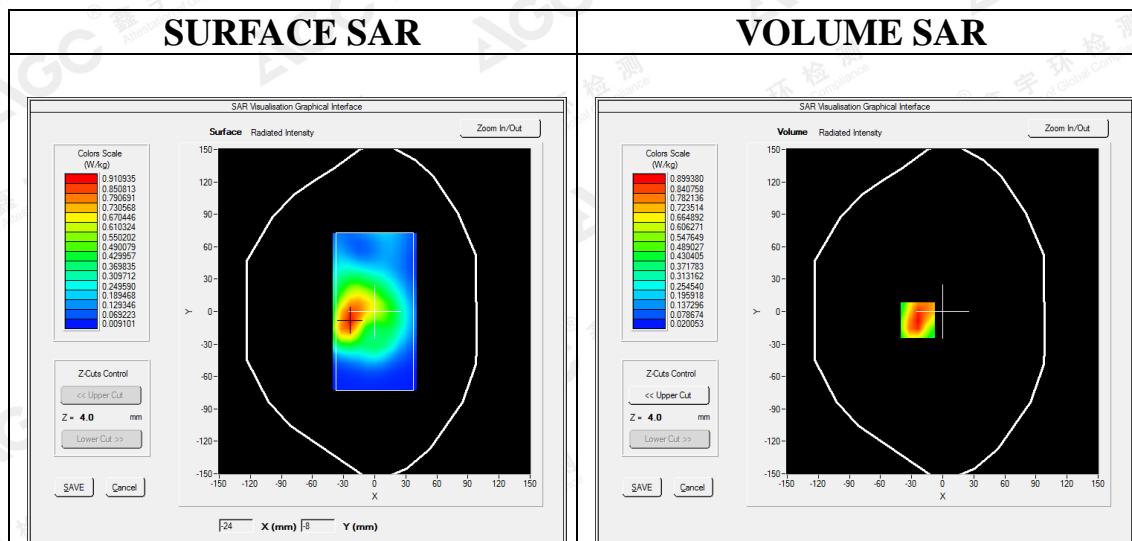
SATIMO Configuration:

- Probe: SSE2; Calibrated:Aug. 08,2017; Serial No.: SN 08/16 EPGO282
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_32

Configuration/GPRS1900 Low -Body-Back/Area Scan: Measurement grid: dx=8mm, dy=8mm

Configuration/GPRS1900 Low -Body-Back/Zoom Scan: Measurement grid: dx=8mm,dy=8mm, dz=5mm;

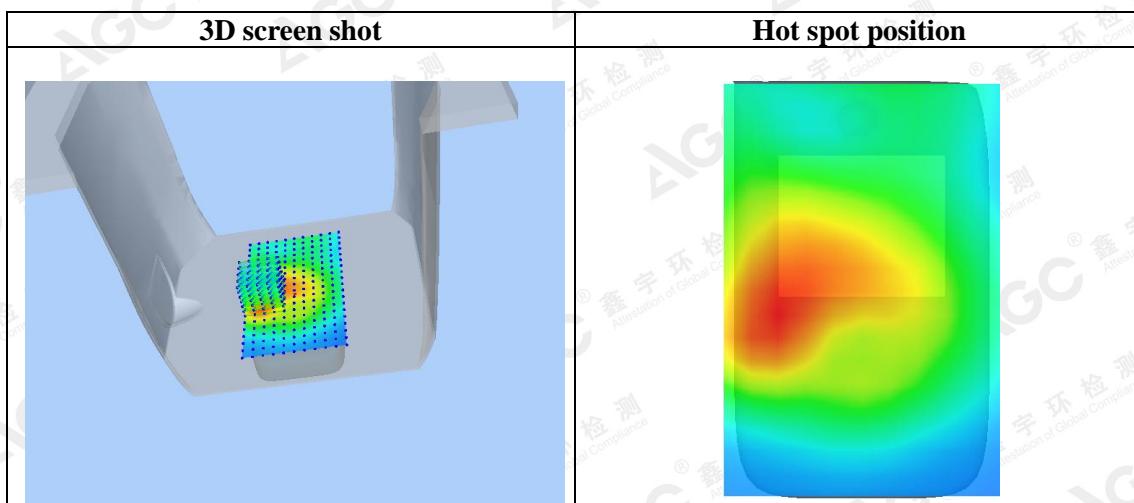
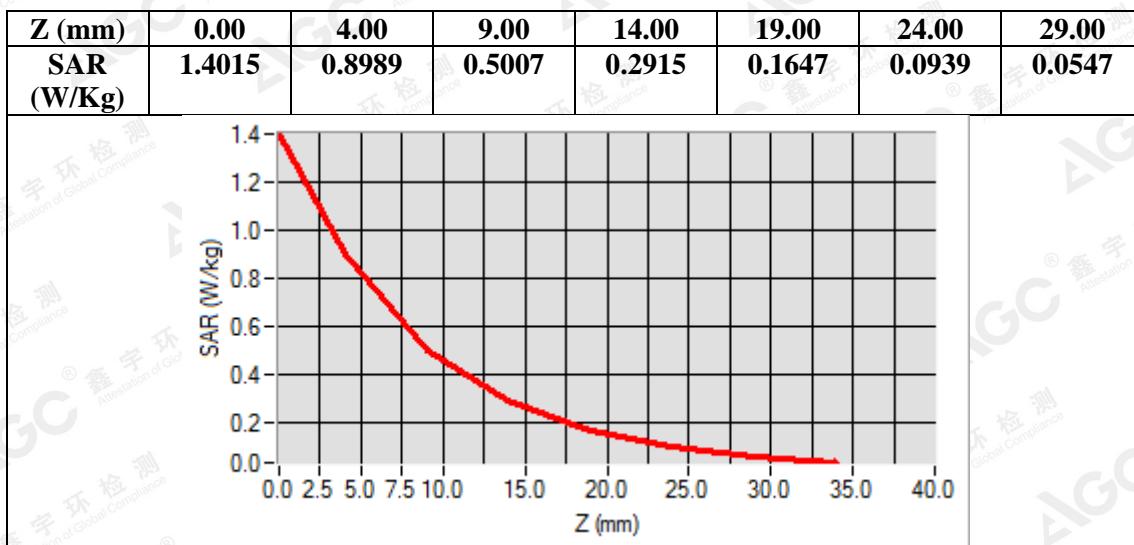
| | |
|------------------------|-------------------------------------|
| Area Scan | sam_direct_droit2_surf8mm.txt |
| Zoom Scan | 5x5x7,dx=8mm dy=8mm dz=5mm,Complete |
| Phantom | Validation plane |
| Device Position | Body Back |
| Band | PCS 1900 |
| Channels | Low |
| Signal | TDMA (Crest factor: 2.0) |


Maximum location: X=-24.00, Y=-8.00
SAR Peak: 1.46 W/kg

| | |
|-----------------------|----------|
| SAR 10g (W/Kg) | 0.480254 |
| SAR 1g (W/Kg) | 0.860147 |

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Test Laboratory: AGC Lab
WCDMA Band II Mid-Body-Towards Grounds (RMC 12.2kbps)
DUT: Smart Phone; Type: Cirrus C2

Date: Aug. 01, 2018

Communication System: UMTS; Communication System Band: Band II UTRA/FDD ;Duty Cycle:1:1; Conv.F=5.90;
Frequency: 1880 MHz; Medium parameters used: $f = 1900$ MHz; $\sigma = 1.50$ mho/m; $\epsilon_r = 53.37$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section
Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.3

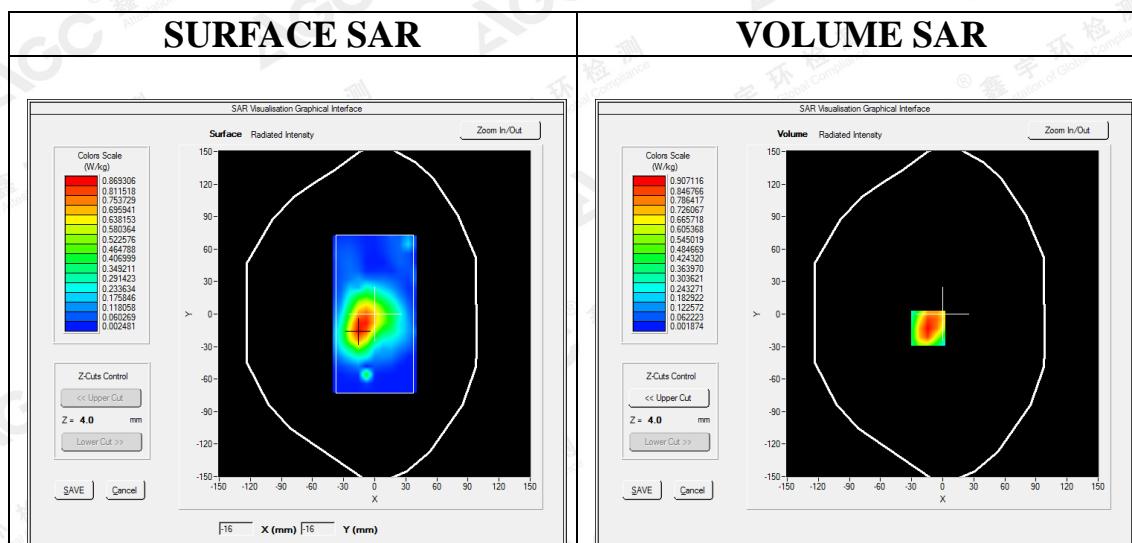
SATIMO Configuration:

- Probe: SSE2; Calibrated:Aug. 08,2017; Serial No.: SN 08/16 EPGO282
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_35

Configuration/ WCDMA band II Mid-Body-back/Area Scan: Measurement grid: dx=8mm, dy=8mm

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

| | |
|------------------------|-------------------------------------|
| Area Scan | sam_direct_droit2_surf8mm.txt |
| ZoomScan | 5x5x7,dx=8mm dy=8mm dz=5mm,Complete |
| Phantom | Validation plane |
| Device Position | Body Back |
| Band | WCDMA band II |
| Channels | Middle |
| Signal | CDMA (Crest factor: 1.0) |



Maximum location: X=-14.00, Y=-13.00

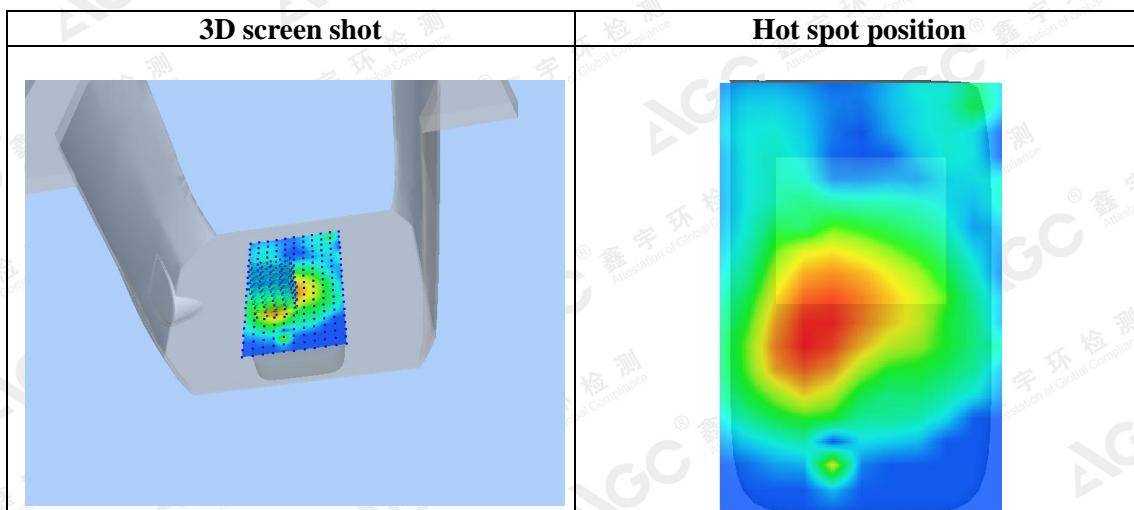
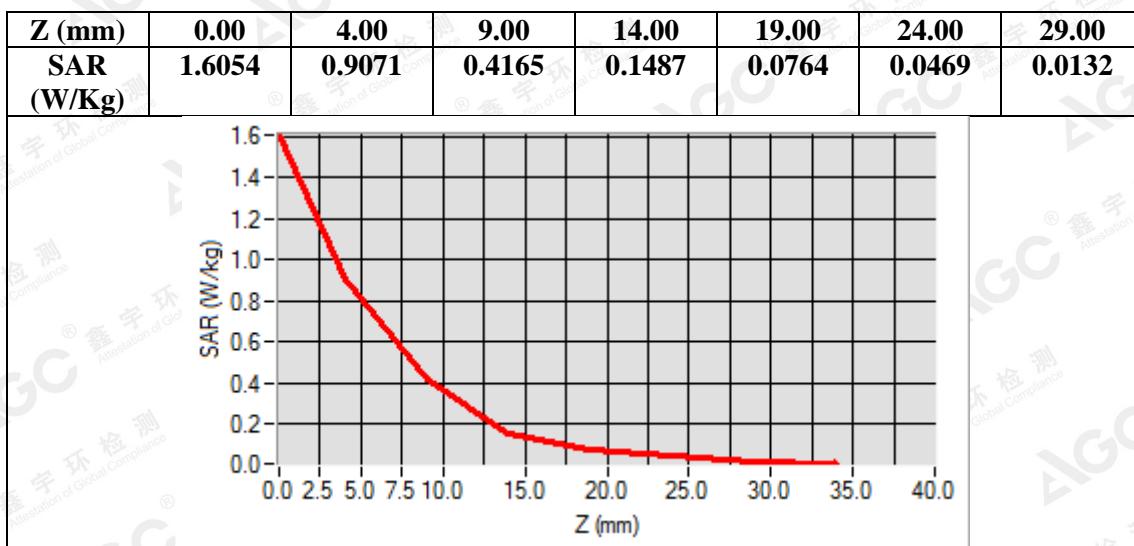
SAR Peak: 1.69 W/kg

| | |
|-----------------------|----------|
| SAR 10g (W/Kg) | 0.405540 |
| SAR 1g (W/Kg) | 0.881450 |

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Test Laboratory: AGC Lab
WCDMA Band IV Mid-Body-Towards Grounds (RMC)
DUT: Smart Phone; Type: Cirrus C2

Date: Aug. 05,2018

Communication System: UMTS; Communication System Band: BAND IV UTRA/FDD; Duty Cycle: 1: 1; Conv.F=5.08
Frequency: 1732.5 MHz; Medium parameters used: $f = 1800\text{MHz}$; $\sigma = 1.48 \text{ mho/m}$; $\epsilon_r = 54.71$; $\rho = 1000 \text{ kg/m}^3$;
Phantom section: Flat Section
Ambient temperature (°C): 22.0, Liquid temperature (°C): 21.6

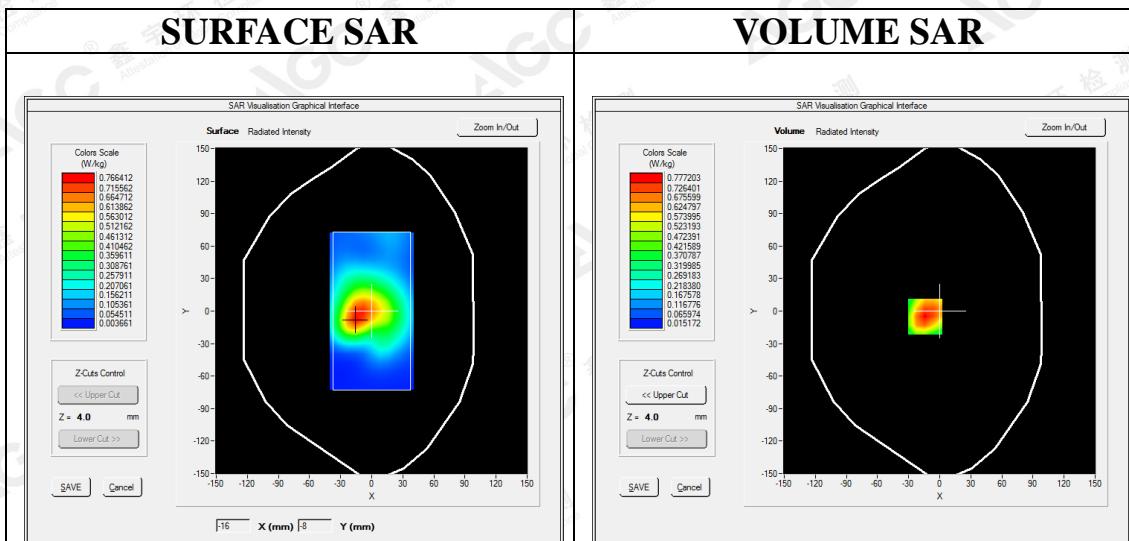
SATIMO Configuration:

- Probe: SSE2; Calibrated: Aug. 08, 2017; Serial No.: SN 08/16 EPGO282
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4_02_35

Configuration/ WCDMA Band IVMid-Body-Back/Area Scan: Measurement grid: dx=8mm, dy=8mm

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

| | |
|------------------------|-------------------------------------|
| Area Scan | sam_direct_droit2_surf8mm.txt |
| ZoomScan | 5x5x7,dx=8mm dy=8mm dz=5mm,Complete |
| Phantom | Validation plane |
| Device Position | Body Back |
| Band | WCDMA Band IV |
| Channels | Middle |
| Signal | CDMA (Crest factor: 1.0) |



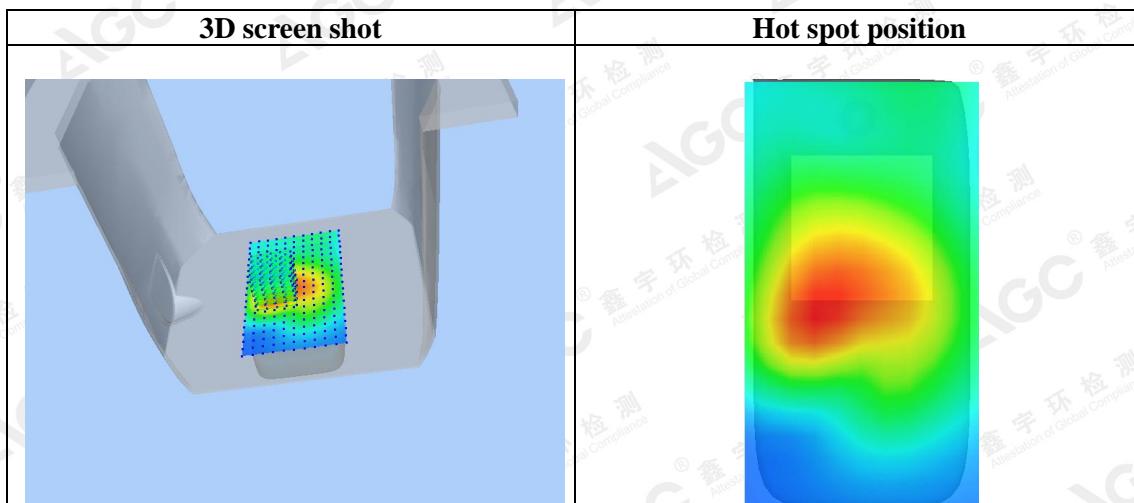
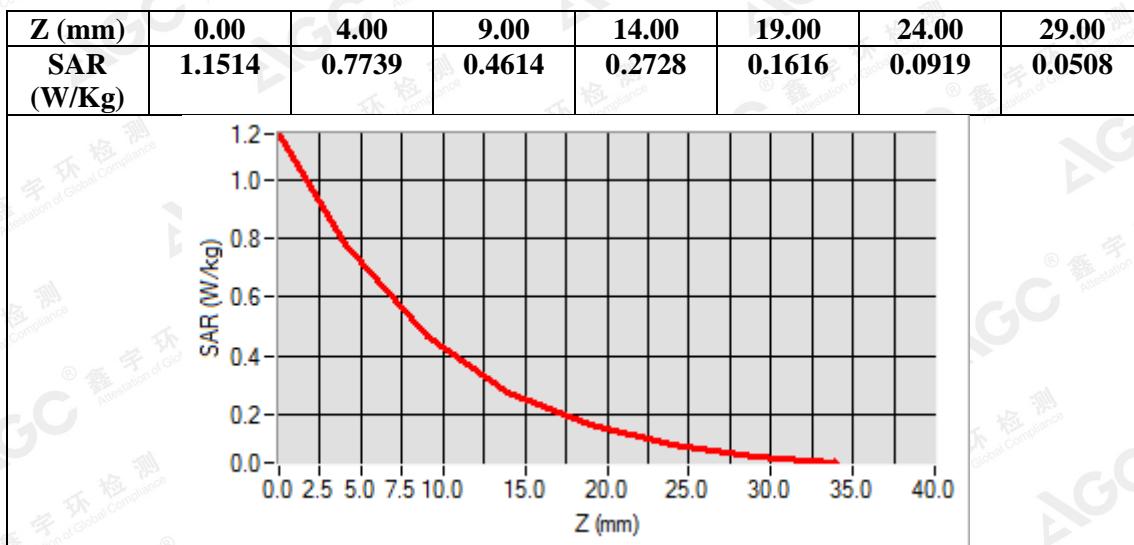
Maximum location: X=-14.00, Y=-5.00
SAR Peak: 1.17 W/kg

| | |
|-----------------------|----------|
| SAR 10g (W/Kg) | 0.437894 |
| SAR 1g (W/Kg) | 0.749635 |

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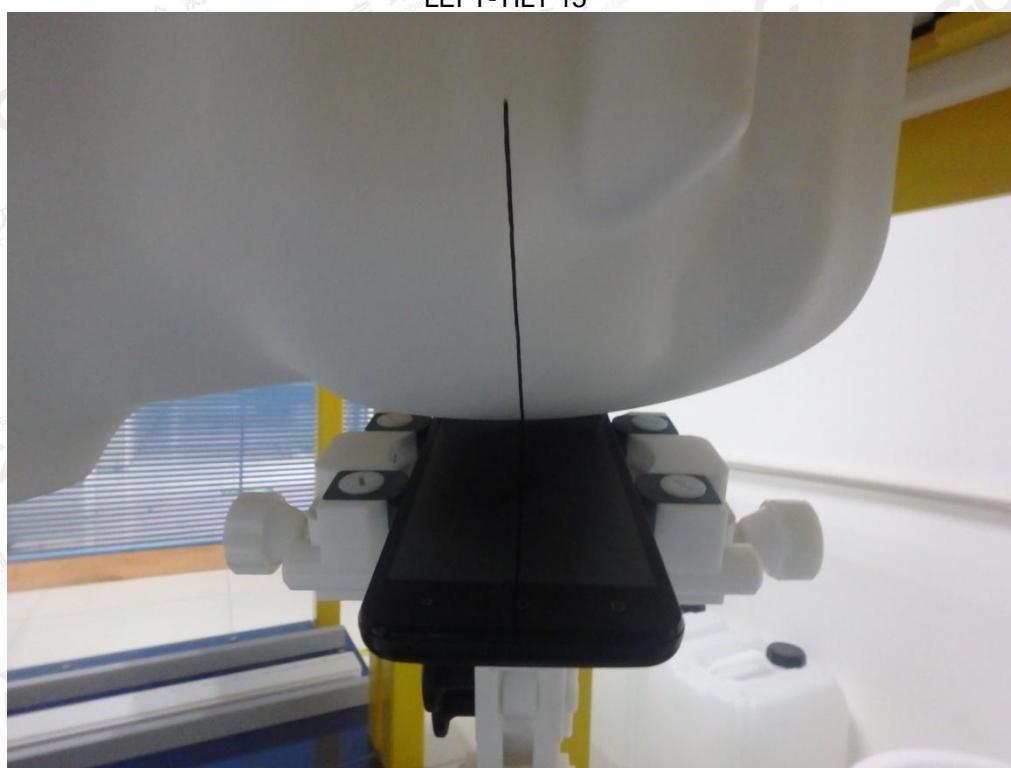
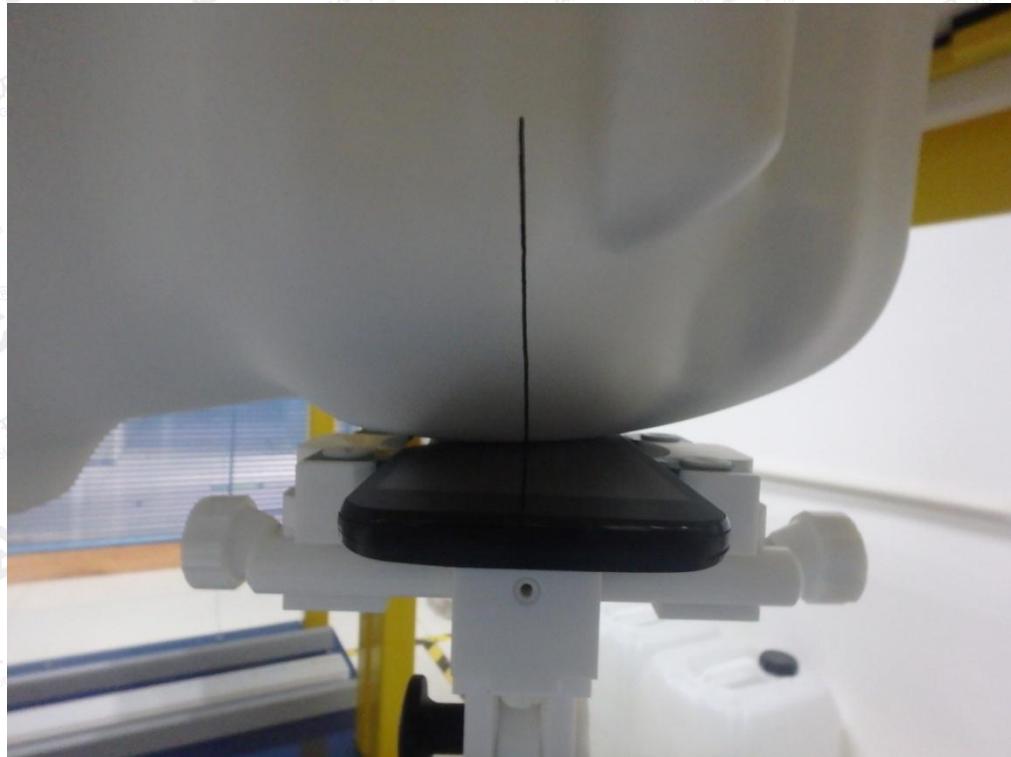


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APPENDIX C. TEST SETUP PHOTOGRAPHS

LEFT- CHEEK TOUCH



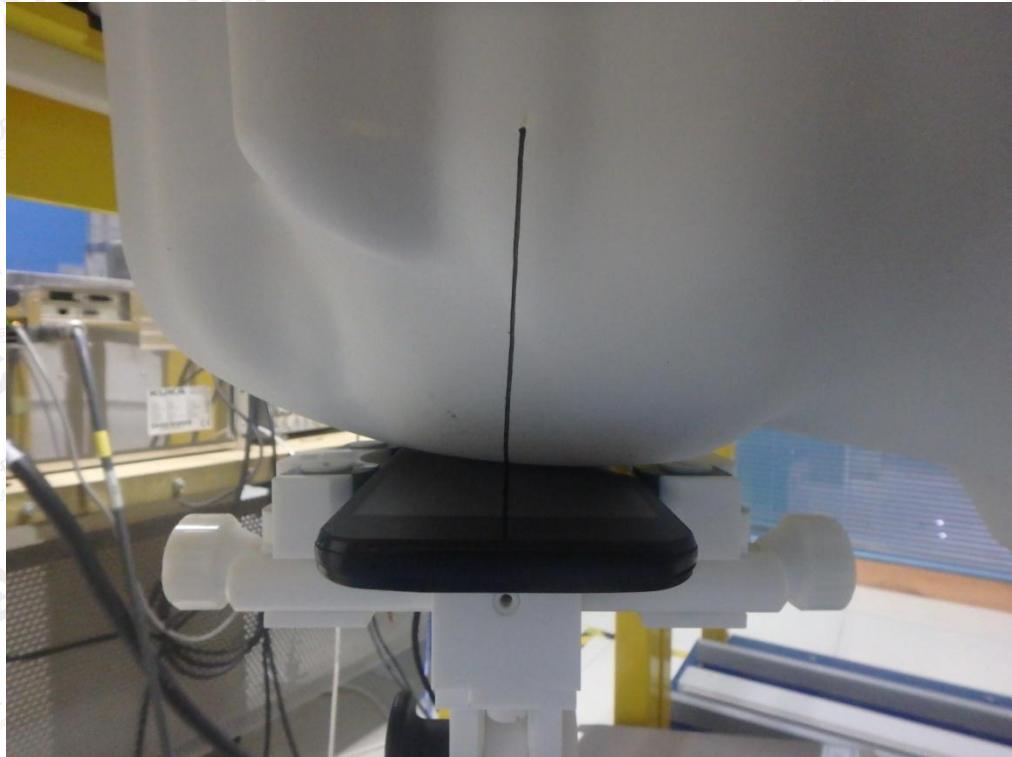
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RIGHT- CHEEK TOUCH



RIGHT-TILT 15°



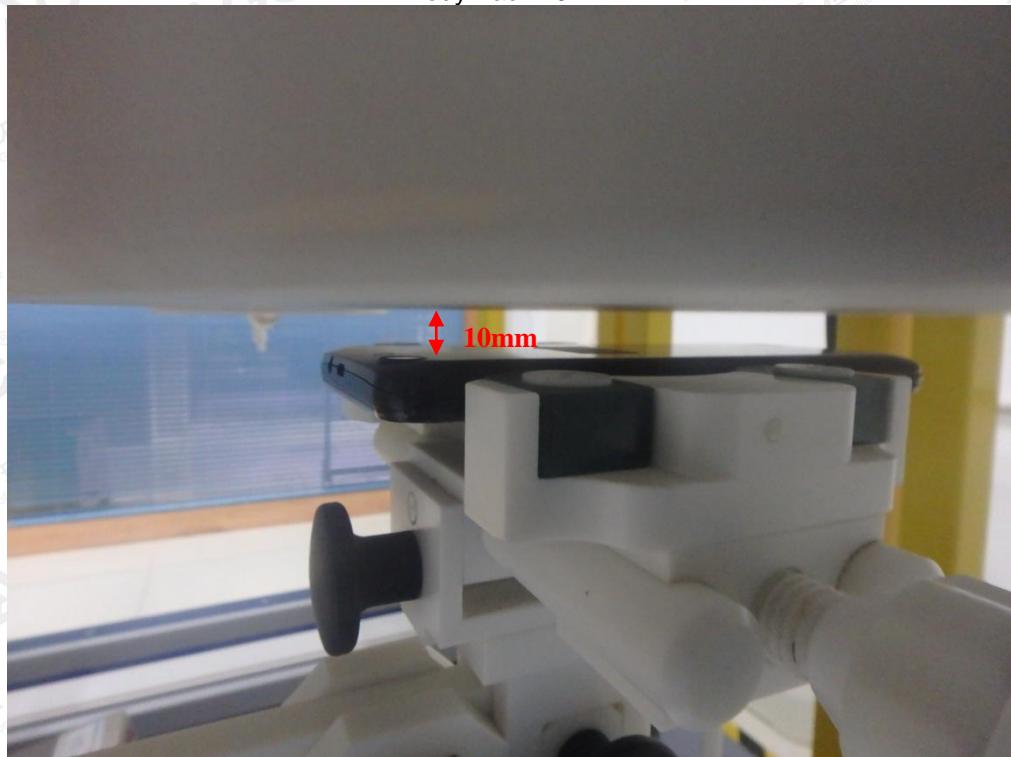
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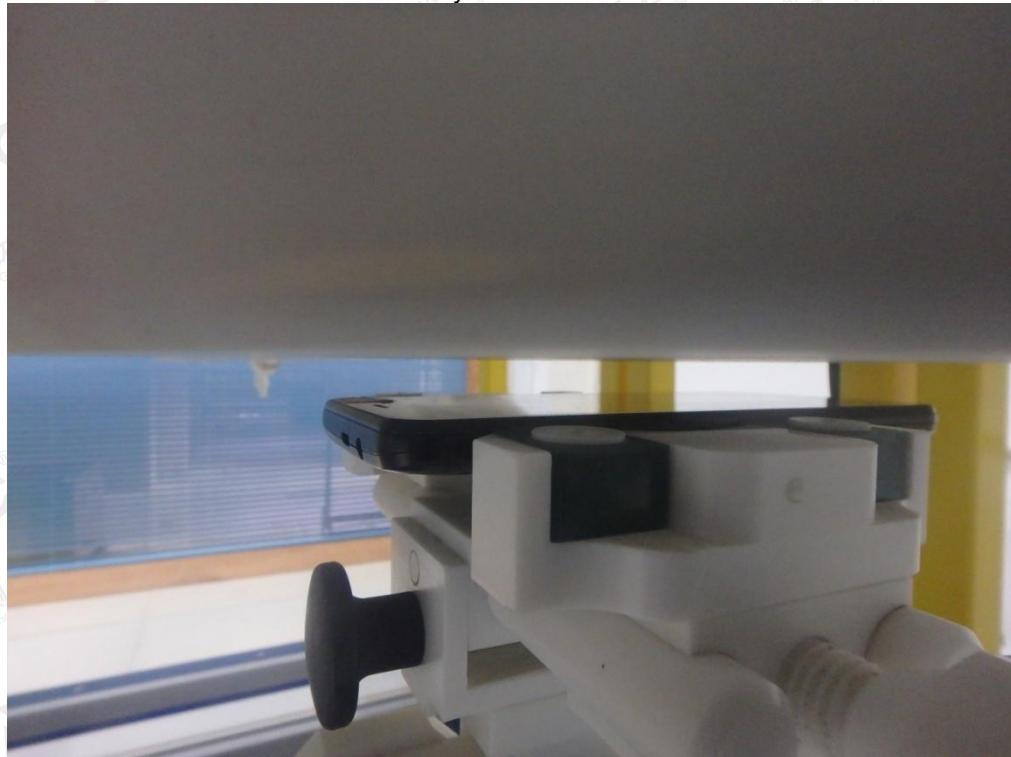
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Body Back 10mm



Body Front 10mm



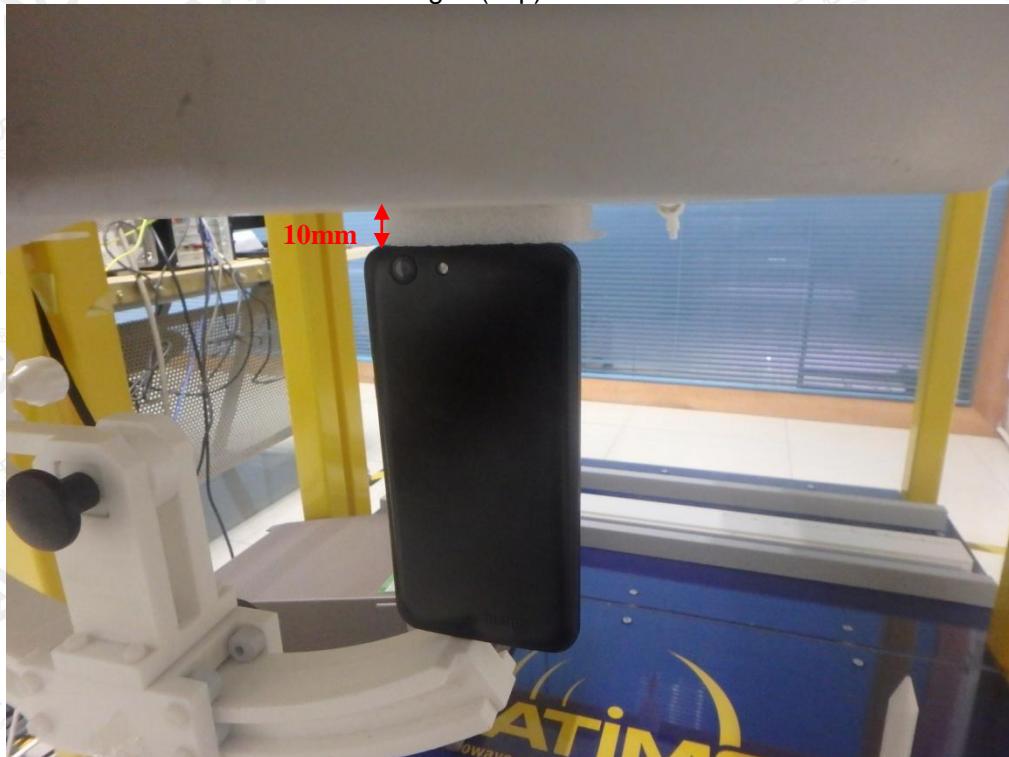
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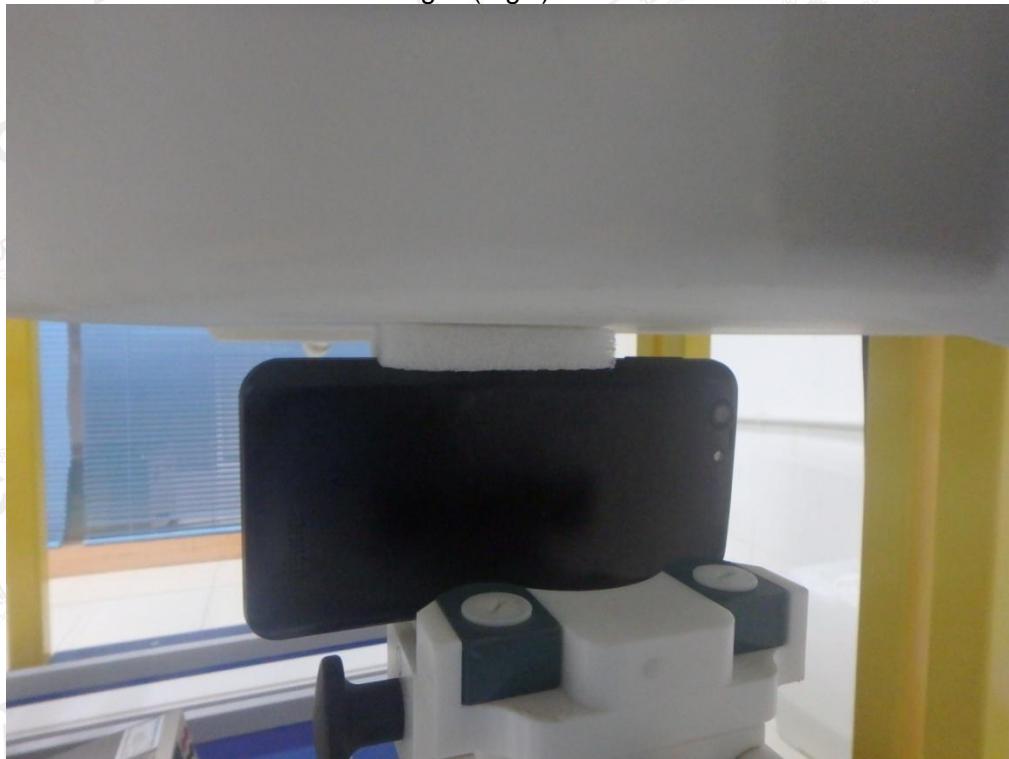
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Edge 1(Top) 10mm



Edge 2(Right) 10mm



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Edge 3(Bottom) 10mm



Edge 4(Left) 10mm



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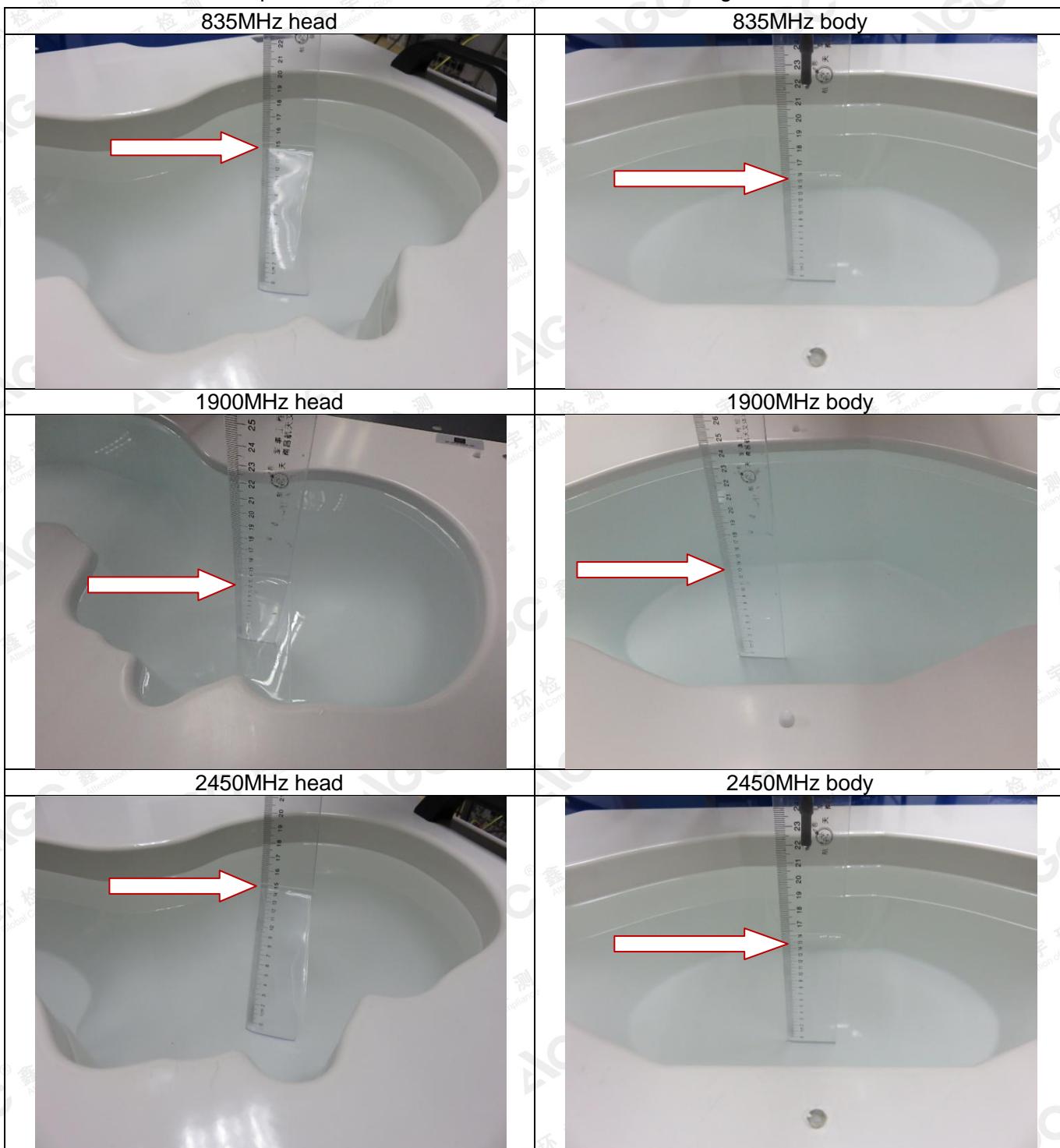


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DEPTH OF THE LIQUID IN THE PHANTOM—ZOOM IN

Note : The position used in the measurement were according to IEEE 1528-2013

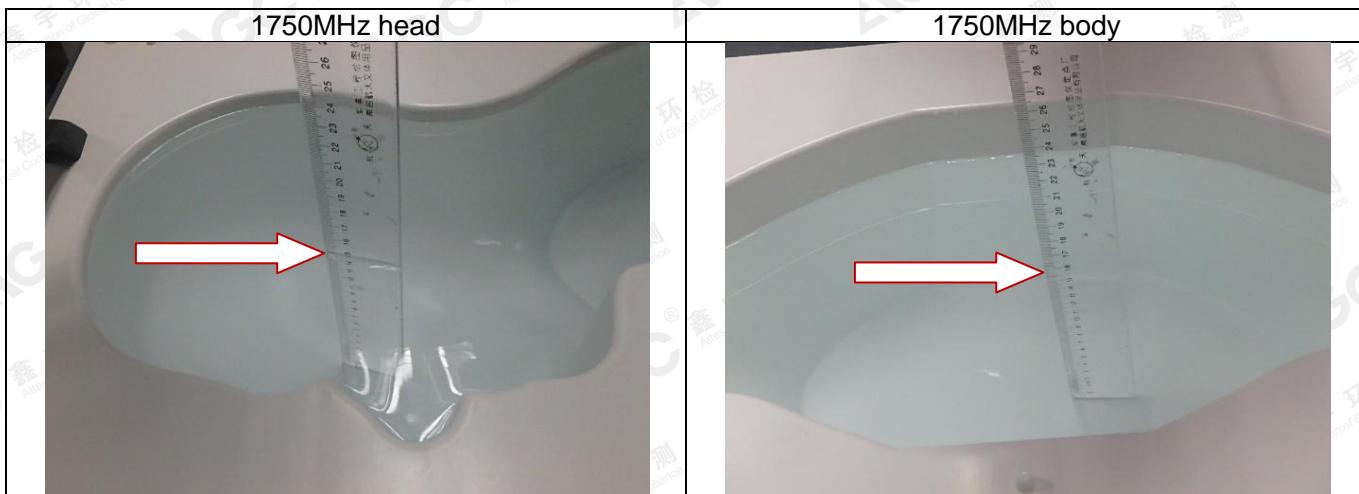


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APPENDIX D. CALIBRATION DATA

Refer to Attached files.



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