

---

# SAR Test Report

---

**Report No.: AGC19U120201S1**

FCC ID : SG71202HG-M306  
Product Designation : Mobile Phone  
Brand Name : Haier  
Test model : HG-M306+  
Client : Haier Telecom (Qingdao) Co., Ltd.  
Date of Issue : Feb.25,2012  
STANDARD(S) : FCC Oet65 Supplement C June 2001  
: IEEE Std. 1528-2003,47CFR § 2.1093

**Attestation of Global Compliance Co., Ltd.**

CAUTION: This report shall not be reproduced except in full without the written permission of the test laboratory and shall not be quoted out of context.

<b>Test Report Certification</b>	
Applicant Name	: Haier Telecom (Qingdao) Co., Ltd.
Applicant Address	: No.1 Haier Road Hi-tech Zone Qingdao P.R.CHINA
Manufacturer Name	: Haier Telecom (Qingdao) Co., Ltd.
Manufacturer Address	: No.1 Haier Road Hi-tech Zone Qingdao P.R.CHINA
Product Name	: mobile phone
Brand Name	: Haier
Model Name	: HG-M306+
EUT Voltage	: DC3.7V
Applicable Standard	: FCC Oet65 Supplement C June 2001 IEEE Std. 1528-2003,47CFR § 2.1093
Test Date	: 02-25-2012
Test Results	: MAX SAR MEASUREMENT(1g) Head:0.739 W/Kg (Scaling SAR=1.008W/Kg) Body:0.733 W/Kg
Performed Location	: Attestation of Global Compliance Co., Ltd. 1F., No.2 Building, Huafeng No.1 Technical Industrial Park, Sanwei, Xixiang, Baoan District, Shenzhen

Tested By

*Angela Li*

Angela Li

Feb.25, 2012

Checked By

*Forrest Lei*

Forrest Lei

Feb.25, 2012

Authorized By

*Solger Zhang*

Solger Zhang

Feb.25, 2012

**TABLE OF CONTENTS**

<b>1. GENERAL INFORMATION</b> .....	<b>4</b>
1.1. EUT DESCRIPTION .....	4
1.2. TEST PROCEDURE .....	5
1.3. TEST ENVIRONMENT .....	5
<b>2. SAR MEASUREMENT SYSTEM</b> .....	<b>6</b>
2.1. COMOSAR SYSTEM DESCRIPTION .....	6
2.2. COMOSAR E-FIELD PROBE .....	7
2.3. ROBOT .....	8
2.4. VIDEO POSITIONING SYSTEM .....	9
2.5. DEVICE HOLDER .....	9
2.6. SAM TWIN PHANTOM .....	10
<b>3. TISSUE SIMULATING LIQUID</b> .....	<b>11</b>
3.1. THE COMPOSITION OF THE TISSUE SIMULATING LIQUID .....	11
3.2. TISSUE CALIBRATION RESULT .....	11
3.3. TISSUE DIELECTRIC PARAMETERS FOR HEAD AND BODY PHANTOMS .....	12
<b>4. SAR MEASUREMENT PROCEDURE</b> .....	<b>13</b>
4.1. SAR SYSTEM VALIDATION .....	13
4.2. SAR MEASUREMENT PROCEDURE .....	15
<b>5. SAR EXPOSURE LIMITS</b> .....	<b>16</b>
<b>6. TEST EQUIPMENT LIST</b> .....	<b>17</b>
<b>7. MEASUREMENT UNCERTAINTY</b> .....	<b>18</b>
<b>8. CONDUCTED POWER MEASUREMENT</b> .....	<b>19</b>
<b>9. TEST RESULTS</b> .....	<b>20</b>
9.1. SAR TEST RESULTS SUMMARY .....	20
<b>APPENDIX A. SAR SYSTEM VALIDATION DATA</b> .....	<b>25</b>
<b>APPENDIX B. SAR MEASUREMENT DATA</b> .....	<b>29</b>
<b>APPENDIX C. TEST SETUP PHOTOGRAPHS &amp; EUT PHOTOGRAPHS</b> .....	<b>89</b>
<b>APPENDIX D. PROBE CALIBRATION DATA</b> .....	<b>101</b>
<b>APPENDIX E. DIPOLE CALIBRATION DATA</b> .....	<b>110</b>

## 1. General Information

### 1.1. EUT Description

Product Name	mobile phone
Model No.	HG-M306+
Hardware Version	D460_MB_PCB_P1
Software Version	HG-M306+ -H01-S005-Guatemala-Tigo
Device Category	Portable
RF Exposure Environment	Uncontrolled
Antenna Type	Internal
<b>GSM and GPRS</b>	
Support Band	GSM850/PCS1900 It also supports Non-U.S. bands GSM 900 / DCS 1800
GPRS Type	Class B
GPRS Class	Class 8,10,12(1Tx+4Rx, 2Tx+3Rx, 3Tx+2Rx, 4Tx+1Rx)
TX Frequency Range	GSM 850: 824.2~848.8MHz PCS 1900: 1850.2~1909.8MHz
RX Frequency Range	GSM 850: 869~894MHz PCS 1900: 1930~1990MHz
Release Version	R99
Type of modulation	GMSK for GSM/GPRS
Antenna Gain	1.0dBi
Max. Output Power (Avg. Burst Power)	GSM850:31.65 dBm ( 32.57dBm Peak Power) PCS1900:28.94 dBm (29.67 dBm Peak Power)
Max. Output Power (Radiated)	GSM850: 30.87 dBm- ERP PCS1900: 27.79 dBm- EIRP
<b>Bluetooth</b>	
Bluetooth Frequency	2402~2480MHz
Type of modulation	GFSK, $\Pi/4$ -DQPSK, 8-DPSK
Data Rate	1Mbps, 2Mbps, 3Mbps
Antenna Gain	0.8dBi
Battery	Brand name: Haier Model No. : H15132 Voltage and Capacitance: DC 3.7V/1000mAh Manufacturer Name: SUNWODA Electronics Co., Ltd.

Adapter	Brand name: Haier Model No. : LSA-80A5 Input: 100-240V, 50/60HZ , 0.15A 5.0V 550mA Manufacturer Name: NingBo LiShunDa Electronics Co., Ltd.
---------	--

Note: The sample used for testing is end product.

### 1.2. Test Procedure

1	Setup the EUT and simulators as shown on above.
2	Turn on the power of all equipment.
3	EUT communicate with CMU 200, and test them respectively at GSM 850 & PCS1900#

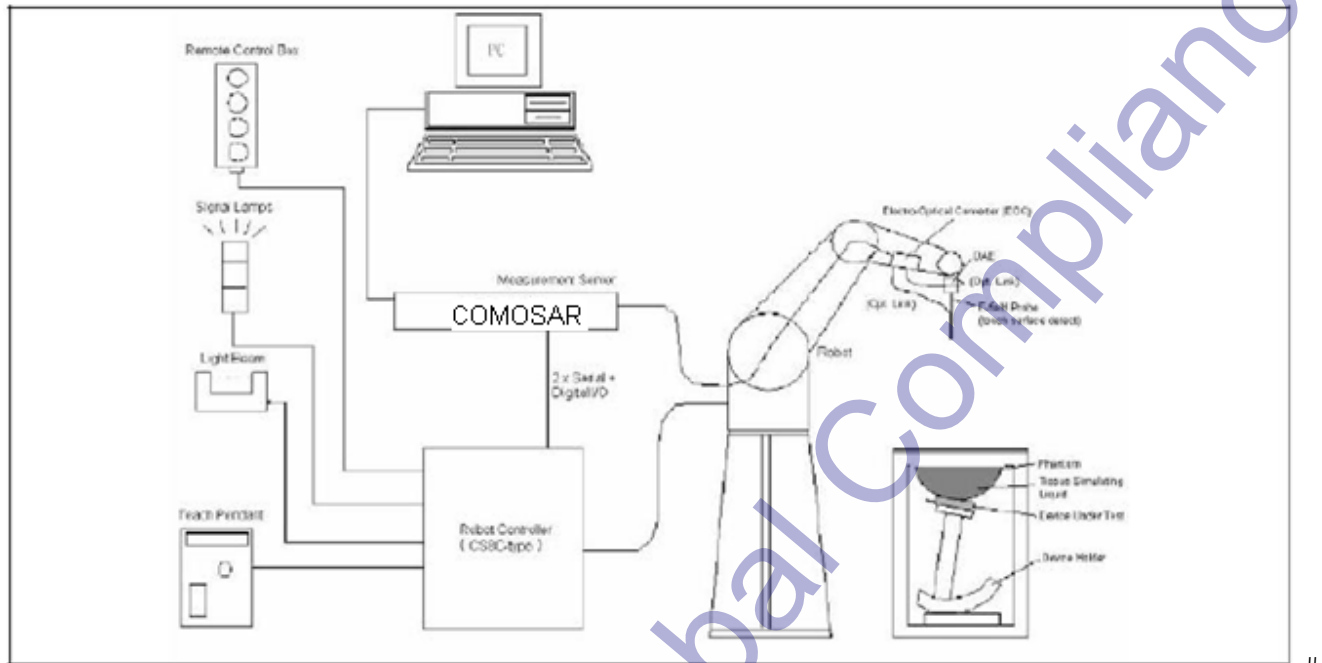
### 1.3. Test Environment

Ambient conditions in the laboratory:

Items	Required	Actual
Temperature (°C)	18-25	21± 2
Humidity (%RH)	30-70	56

## 2. SAR Measurement System

### 2.1. COMOSAR System Description



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

A standard high precision 6-axis robot with controller, teach pendant and software.

An arm extension for accommodating the data acquisition electronics (DAE).

A data acquisition electronics (DAE) which performs the signal amplification, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. The unit is battery powered with standard or rechargeable batteries. The signal is optically transmitted to the EOC.

The Electro-optical converter (EOC) performs the conversion from optical to electrical signals for the digital communication to the DAE. To use optical surface detection, a special version of the EOC is required. The EOC signal is transmitted to the measurement server.

The Light Beam used is for probe alignment. This improves the (absolute) accuracy of the probe positioning.

A computer running WinXP and the Opensar software.

Remote control and teach pendant as well as additional circuitry for robot safety such as warning lamps, etc.

The phantom, the device holder and other accessories according to the targeted measurement.

#### 2.1.1. Applications

Predefined procedures and evaluations for automated compliance testing with all worldwide standards, e.g., IEEE 1528, OET 65, IEC 62209-1, IEC 62209-2, EN 50360, EN 50383 and others.

#### 2.1.2. Area Scans

Area scans are defined prior to the measurement process being executed with a user

defined variable spacing between each measurement point (integral) allowing low uncertainty measurements to be conducted. Scans defined for FCC applications utilize a 10mm<sup>2</sup> step integral, with 1mm interpolation used to locate the peak SAR area used for zoom scan assessments.

When an Area Scan has measured all reachable points, it computes the field maxima 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 2 dB range is required in IEEE 1528-2003, EN 50361 and IEC 62209 standards, whereby 3 dB is a requirement when compliance is assessed in accordance with the ARIB standard (Japan).

### 2.1.3. Zoom Scan (Cube Scan Averaging)

Zoom Scans are used to assess the peak spatial SAR values within a cubic averaging volume containing 1 g and 10 g of simulated tissue. A density of 1000 kg/m<sup>3</sup> is used to represent the head and body tissue density and not the phantom liquid density, in order to be consistent with the definition of the liquid dielectric properties, i.e. the side length of the 1 g cube is 10mm, with the side length of the 10 g cube 21,5mm.

The zoom scan integer steps can be user defined so as to reduce uncertainty, but normal practice for typical test applications utilize a physical step of 7x7x7 (5mmx5mmx5mm) providing a volume of 30mm in the X & Y axis, and 30mm in the Z axis.

### 2.1.4. Uncertainty of Inter-/Extrapolation and Averaging

In order to evaluate the uncertainty of the interpolation, extrapolation and averaged SAR calculation algorithms of the Post processor, COMOSAR allows the generation of measurement grids which are artificially predefined by analytically based test functions. Therefore, the grids of area scans and zoom scans can be filled with uncertainty test data, according to the SAR benchmark functions of IEEE 1528. The three analytical functions shown in equations as below are used to describe the possible range of the expected SAR distributions for the tested handsets. The field gradients are covered by the spatially flat distribution f1, the spatially steep distribution f3 and f2 accounts for H-field cancellation on the phantom/tissue surface.

$$f_1(x, y, z) = A e^{-\frac{z}{2a}} \cos^2 \left( \frac{\pi \sqrt{x'^2 + y'^2}}{2 \cdot 5a} \right)$$

$$f_2(x, y, z) = A e^{-\frac{z}{a}} \frac{a^2}{a^2 + x'^2} \left( 3 - e^{-\frac{2z}{a}} \right) \cos^2 \left( \frac{\pi y'}{2 \cdot 3a} \right)$$

$$f_3(x, y, z) = A \frac{a^2}{\frac{a^2}{4} + x'^2 + y'^2} \left( e^{-\frac{2z}{a}} + \frac{a^2}{2(a + 2z)^2} \right)$$

## 2.2. COMOSAR E-Field Probe

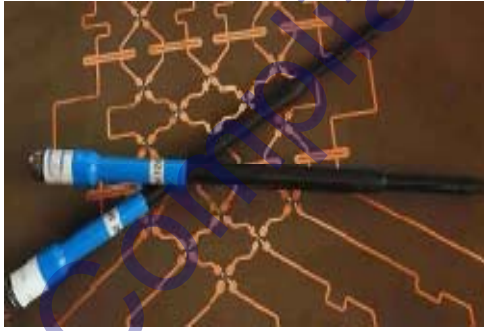
The SAR measurement is conducted with the dissymmetric probe manufactured by SPEAG.

The probe is specially designed and calibrated for use in liquid with high permittivity. The

dissymmetric probe has special calibration in liquid at different frequency.

SPEAG conducts the probe calibration in compliance with international and national standards (e.g. IEEE 1528, EN62209-1, IEC 62209, etc.) Under ISO17025. The calibration data are in Appendix D.

### 2.2.1. Isotropic E-Field Probe Specification

<b>Model</b>	SSE5	
<b>Manufacture</b>	Satimo	
<b>frequency</b>	0.3 GHz-3 GHz Linearity:±0.2dB(300 MHz-3 GHz)	
<b>Dynamic Range</b>	0.01W/Kg-100W/Kg Linearity:±0.2dB	
<b>Dimensions</b>	Overall length:330mm Length of individual dipoles:4.5mm Maximum external diameter:8mm Probe Tip external diameter:5mm Distance between dipoles/ probe extremity:2.7mm	
<b>Application</b>	High precision dosimetric measurements in any exposure scenario (e.g., very strong gradient fields). Only probe which enables compliance testing for frequencies up to 3 GHz with precision of better 30%.	

### 2.3 Robot

The COMOSAR system uses the high precision robots TX90 XL type out of the newer series 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





## 2.4. 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.

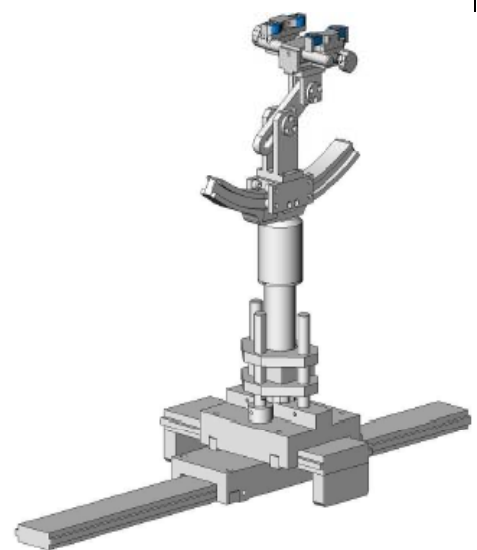


## 2.5. Device Holder

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.



## 2.6. SAM Twin Phantom

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

- Left head
- Right head
- Flat phantom



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

Attestation of Global Compliance

### 3. Tissue Simulating Liquid

#### 3.1. The composition of the tissue simulating liquid

Ingredient	835MHz	835MHz	1900MHz	1900MHz
(% Weight)	Head	Body	Head	Body
<b>Water</b>	40.45	52.4	54.90	40.5
<b>Salt</b>	1.45	1.40	0.18	0.50
<b>Sugar</b>	57.6	45.0	0.00	58.0
<b>HEC</b>	0.40	1.00	0.00	0.50
<b>Preventol</b>	0.10	0.20	0.00	0.50
<b>DGBE</b>	0.00	0.00	44.92	0.00

#### 3.2. Tissue Calibration Result

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

Head Tissue Stimulant Measurement				
Frequency (MHz)	Description	Dielectric Parameters		Tissue Temp [°C]
835MHz	Reference result ±5% window	$\epsilon_r$ 41.50 39.43-43.58	$\delta$ [s/m] 0.90 0.86-0.95	N/A
	02-25-2012	39.90	0.92	21.0

Body Tissue Stimulant Measurement				
Frequency (MHz)	Description	Dielectric Parameters		Tissue Temp [°C]
835MHz	Reference result ±5% window	$\epsilon_r$ 55.20 52.44-57.96	$\delta$ [s/m] 0.97 0.92-1.02	N/A
	02-25-2012	53.68	0.98	21.0

Head Tissue Stimulant Measurement				
Frequency (MHz)	Description	Dielectric Parameters		Tissue Temp [°C]
1900MHz	Reference result ±5% window	$\epsilon_r$ 40.00 38.00-42.00	$\delta$ [s/m] 1.40 1.33-1.47	N/A
	02-25-2012	39.87	1.41	21.0

Body Tissue Stimulant Measurement				
Frequency (MHz)	Description	Dielectric Parameters		Tissue Temp [°C]
1900MHz	Reference result ±5% window	$\epsilon_r$ 53.30 50.64-55.97	$\delta$ [s/m] 1.52 1.44-1.60	N/A
	02-25-2012	52.66	1.50	21.0

### 3.3. Tissue Dielectric Parameters for Head and Body Phantoms

The head tissue dielectric parameters recommended by the IEEE SCC-34/SC-2 in P1528 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 P1528 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 P1528.

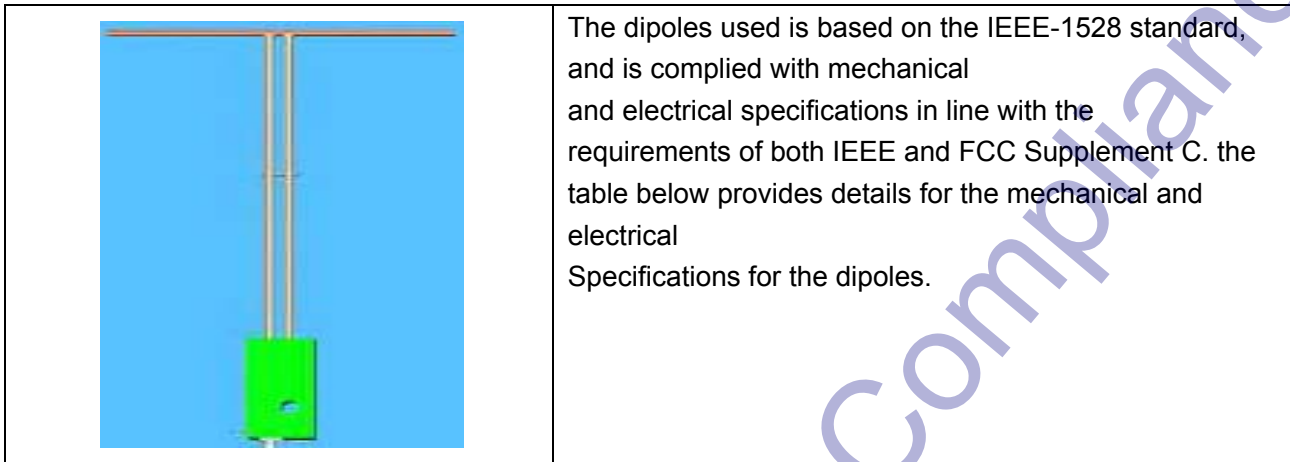
Target Frequency (MHz)	head		body	
	$\epsilon_r$	$\sigma$ (S/m)	$\epsilon_r$	$\sigma$ (S/m)
300	45.3	0.87	58.2	0.92
450	43.5	0.87	56.7	0.94
<b>835</b>	<b>41.5</b>	<b>0.90</b>	<b>55.2</b>	<b>0.97</b>
900	41.5	0.97	55.0	1.05
915	41.5	0.98	55.0	1.06
1450	40.5	1.20	54.0	1.30
1610	40.3	1.29	53.8	1.40
<b>1800 – 2000</b>	<b>40.0</b>	<b>1.40</b>	<b>53.3</b>	<b>1.52</b>
2450	39.2	1.80	52.7	1.95
3000	38.5	2.40	52.0	2.73
5800	35.3	5.27	48.2	6.00

( $\epsilon_r$  = relative permittivity,  $\sigma$  = conductivity and  $\rho = 1000 \text{ kg/m}^3$ )

## 4. SAR Measurement Procedure

### 4.1. SAR System Validation

#### 4.1.1. Validation Dipoles



Frequency	L (mm)	h (mm)	d (mm)
900 MHz	149.0	83.3	3.6
1900MHz	68	39.5	3.6

Attestation of Global Compliance

**4.1.2. Validation Result**

<b>System Performance Check at 835 MHz &amp;1900MHz for Head</b>				
<b>Validation Kit: SN 46/11DIP 0G900-185</b>				
Frequency [MHz]	Description	SAR [w/kg] 1g	SAR [w/kg] 10g	Tissue Temp.[°C]
900 MHz	Reference result ± 10% window	10.9 9.81 to 11.99	6.99 6.29 to 7.69	N/A
	02-25-2012	10.48	6.79	21.0
<b>Validation Kit: SN 46/11DIP 1G900-187</b>				
Frequency [MHz]	Description	SAR [w/kg] 1g	SAR [w/kg] 10g	Tissue Temp.[°C]
1900 MHz	Reference result ± 10% window	39.7 35.73 to 43.67	20.5 18.45 to 22.55	N/A
	02-25-2012	41.03	19.10	21.0
Note: All SAR values are normalized to 1W forward power.				

Attestation of Global Compliance

#### 4.2. SAR Measurement Procedure

The COMOSAR calculates SAR using the following equation,

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

$\sigma$ : represents the simulated tissue conductivity

$\rho$ : represents the tissue density

The EUT is set to transmit at the required power in line with product specification, at each frequency relating to the LOW, MID, and HIGH channel settings.

Pre-scans are made on the device to establish the location for the transmitting antenna, using a large area scan in either air or tissue simulation fluid.

The EUT is placed against the Universal Phantom where the maximum area scan dimensions are larger than the physical size of the resonating antenna. When the scan size is not large enough to cover the peak SAR distribution, it is modified by either extending the area scan size in both the X and Y directions, or the device is shifted within the predefined area.

The area scan is then run to establish the peak SAR location (interpolated resolution set at 1mm<sup>2</sup>) which is then used to orient the center of the zoom scan. The zoom scan is then executed and the 1g and 10g averages are derived from the zoom scan volume (interpolated resolution set at 1mm<sup>3</sup>).

When multiple peak SAR locations were found during the same configuration or test mode, Zoom scan shall performed on each peak SAR location, only the peak point with maximum SAR value will be reported for the configuration or test mode.

## 5. SAR Exposure Limits

SAR assessments have been made in line with the requirements of IEEE-1528, FCC Supplement C, and comply with ANSI/IEEE C95.1-1992 "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
Spatial Peak SAR (1g cube tissue for brain or body)	1.60 W/kg
Spatial Average SAR (whole body)	0.08 W/kg
Spatial Peak SAR (10g for hands, feet, ankles and wrist)	4.00 W/kg



## 6. Test Equipment List

Equipment description	Manufacturer/Model	Identification No.	Current calibration date	Next calibration date
SAR Probe	Satimo	SN_3511_EP132	12/09/2011	12/08/2012
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	R&S - CMU200	069Y7-158-13-712	12/09/2011	12/08/2012
Multimeter	Keithley 2000	1188656	12/09/2011	12/08/2012
Dipole	Satimo SID900	SN46/11 DIP 0G900-185	12/09/2011	12/08/2014
Dipole	Satimo SID1900	SN46/11 DIP 1G900-187	12/09/2011	12/08/2014
Amplifier	Aethercomm	SN 046	12/09/2011	12/08/2012
Power Meter	HP E4418A	US38261498	12/09/2011	12/08/2012
Network Analyzer	Rhode & Schwarz ZVA	SN100132	12/09/2011	12/08/2012

Note: Per KDB 50824 Dipole SAR Validation Verification, 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.

## 7. Measurement Uncertainty

Satimo Uncertainty									
Measurement uncertainty for 300 MHz to 3 GHz averaged over 1 gram / 10 gram.									
Error Description	Sec	Tol (±%)	Prob. Dist.	Div.	(Ci) 1g	(Ci) 10g	Std. Unc. (1g) (±%)	Std. Unc. (10g)(±%)	(Vi) Veff
<b>Measurement System</b>									
Probe Calibration	E.2.1	6	N	1	1	1	6	6	∞
Axial Isotropy	E.2.2	3	R	$\sqrt{3}$	$(1-c_p)^{1/2}$	$(1-c_p)^{1/2}$	1.22474	1.22474	∞
Hemispherical Isotropy	E.2.2	5	R	$\sqrt{3}$	$\sqrt{c_p}$	$\sqrt{c_p}$	2.04124	2.04124	∞
Boundary Effects	E.2.3	1	R	$\sqrt{3}$	1	1	0.57735	0.57735	∞
Linearity	E.2.4	5	R	$\sqrt{3}$	1	1	2.88675	2.88675	∞
System Detection Limits	E.2.5	1	R	$\sqrt{3}$	1	1	0.57735	0.57735	∞
Readout Electronics	E.2.6	0.5	N	1	1	1	0.5	0.5	∞
Response Time	E.2.7	0.2	R	$\sqrt{3}$	1	1	0.11547	0.11547	∞
Integration Time	E.2.8	2	R	$\sqrt{3}$	1	1	1.1547	1.1547	∞
RF Ambient Noise	E.6.1	3	R	$\sqrt{3}$	1	1	1.73205	1.73205	∞
Probe Positioner Mechanical Tolerance	E.6.2	2	R	$\sqrt{3}$	1	1	1.1547	1.1547	∞
Probe Positioning with Respect to Phantom Shell	E.6.3	1	R	$\sqrt{3}$	1	1	0.57735	0.57735	∞
Extrapolation, interpolation and Integration Algorithms for Max. SAR Evaluation	E.5.2	1.5	R	$\sqrt{3}$	1	1	0.86603	0.86603	∞
<b>Dipole</b>									
Device Positioning	8,E.4.2	1	N	$\sqrt{3}$	1	1	0.57735	0.57735	N-1
Power Drift	8.6.6.2	2	R	$\sqrt{3}$	1	1	1.1547	1.1547	∞
<b>Phantom and Tissue Parameters</b>									
Phantom Uncertainty	E.3.1	4	R	$\sqrt{3}$	1	1	2.3094	2.3094	∞
Liquid Conductivity (target)	E.3.2	5	R	$\sqrt{3}$	0.64	0.43	1.84752	1.2413	∞
Liquid Conductivity (meas.)	E.3.3	2.5	N	1	0.64	0.43	1.6	1.075	∞
Liquid Permittivity (target)	E.3.2	3	R	$\sqrt{3}$	0.6	0.49	1.03923	0.8487	∞
Liquid Permittivity (meas.)	E.3.3	2.5	N	1	0.6	0.49	1.5	1.225	M
Combined Standard Uncertainty			RSS				8.09272	7.9296	
Expanded Uncertainty (95%CONFIDENCE INTERVAL)			k				15.8617	15.542	

## 8. Conducted Power Measurement

#

Mode	Frequency(MHz)	Peak Power	Avg. Burst Power	Duty cycle Factor(dB)	Frame Power(dBm)
Maximum Power					
GSM 850	824.2	32.49	31.47	-9	22.47
	836.6	<b>32.57</b>	31.65	-9	22.65
	848.8	32.47	31.51	-9	22.51
GPRS850 (1 Slot)	824.2	32.36	31.54	-9	22.54
	836.6	32.41	31.64	-9	22.64
	848.8	32.47	31.71	-9	22.71
GPRS850 (2 Slot)	824.2	29.52	28.63	-6	22.63
	836.6	29.63	28.65	-6	22.65
	848.8	29.54	28.69	-6	22.69
GPRS850 (3 Slot)	824.2	27.51	26.90	-4.25	22.65
	836.6	27.71	26.93	-4.25	22.68
	848.8	27.93	26.90	-4.25	22.65
GPRS850 (4 Slot)	824.2	26.57	25.61	-3	22.61
	836.6	26.69	25.69	-3	22.69
	848.8	26.49	25.47	-3	22.47
PCS1900	1850.2	29.17	28.64	-9	19.64
	1880	29.35	28.76	-9	19.76
	1909.8	<b>29.67</b>	28.94	-9	19.94
GPRS1900 (1 Slot)	1850.2	29.14	28.61	-9	19.61
	1880	29.31	28.73	-9	19.73
	1909.8	29.58	28.81	-9	19.81
GPRS1900 (2 Slot)	1850.2	26.67	25.76	-6	19.76
	1880	26.65	25.63	-6	19.63
	1909.8	26.72	25.81	-6	19.81
GPRS850 (3 Slot)	1850.2	24.95	23.92	-4.25	19.67
	1880	24.84	23.93	-4.25	19.68
	1909.8	24.99	23.96	-4.25	19.71
GPRS850 (4 Slot)	1850.2	23.52	22.78	-3	19.78
	1880	23.61	22.83	-3	19.83
	1909.8	23.54	22.91	-3	19.91

Note 1:

The Frame Power (Source-based time-averaged Power) is scaled the maximum burst average power based on time slots. The calculated methods are show as following:

Frame Power = Max burst power (1 Up Slot) – 9 dB

Frame Power = Max burst power (2 Up Slot) – 6 dB

Frame Power = Max burst power (3 Up Slot) – 4.25 dB

Frame Power = Max burst power (4 Up Slot) – 3 dB

## 9. Test Results

### 9.1. SAR Test Results Summary

#### 9.1.1. Test position and configuration

Head SAR was performed with the device configured in the positions according to IEEE1528, and Body SAR was performed with the device 15mm from the phantom. Body SAR was also performed with the headset attached and without.

#### 9.1.2. Body SAR with Headset

Testing with the headset was performed at the position and channels that resulted in the highest body SAR. This testing was performed with GPRS transmitting with 2/3/4 uplink timeslots. This operation mode represents the maximum SAR situation, when downloading data via GPRS and listening to music by headset. SAR without the headset attached was significantly higher than with the headset, and also was verified several times and confirmed, so the final test data shown were the worst case without headset. In the Body SAR test result table, body-worn means display of device down, body-front means display of device up.

#### 9.1.3. Operation Mode

This is a multislot class 12 device capable of 4 uplink timeslots. During the head SAR test, the device was transmitting with 1 uplink timeslot; during the body SAR test, it was transmitting with 2 uplink timeslots. Additionally, this device doesn't support dual transfer mode (DTM).

#### 9.1.4. Co-located SAR

According to KDB 447498 and KDB 648474, the closest separation between GSM antenna and BT antenna is 0.5 cm, Bluetooth Max peak power is 3.31dBm, the Maximum GSM SAR < 1.2W/Kg, thus, stand-alone SAR and simultaneous transmission SAR is not required.

Other reference document: KDB 941225.

### 9.1.5. Test Result

SAR MEASUREMENT							
Ambient Temperature (°C) : 21 ±2				Relative Humidity (%): 52			
Liquid Temperature (°C) : 21 ±2				Depth of Liquid (cm):>15			
Product: MOBILE PHONE							
Test Mode: GSM850 with GMSK modulation							
Test Position Head	Antenna Position	Frequency		Frame Power (dBm)	Power Drift (<±0.2 dB)	SAR 1g (W/kg)	Limit (W/kg)
		channel	MHz				
Left-Cheek	Fixed	128	824.2	22.79	--	--	1.6
Left-Cheek	Fixed	190	836.6	22.72	0.051	0.537	1.6
Left-Cheek	Fixed	251	848.8	22.65	--	--	1.6
Left-Tilted	Fixed	190	836.6	22.72	-0.037	0.479	1.6
Right-Cheek	Fixed	128	824.2	22.79	--	--	1.6
Right-Cheek	Fixed	190	836.6	22.72	0.086	0.739	1.6
Right-Cheek	Fixed	251	848.8	22.65	--	--	1.6
Right-Tilted	Fixed	190	836.6	22.72	-0.052	0.568	1.6

Note: when the 1-g SAR is ≤ 0.8 W/kg, testing for low and high channel is optional. refer to KDB 941225.

Attestation of Global Compliance

SAR MEASUREMENT							
Ambient Temperature (°C) : 21.0 ±2				Relative Humidity (%): 52			
Liquid Temperature (°C) : 21.0 ±2				Depth of Liquid (cm):>15			
Product: MOBILE PHONE							
Test Mode: GSM850 with GMSK modulation							
Test Position <b>Body</b>	Antenna Position	Frequency		Frame Power (dBm)	Power Drift (<±0.2 dB)	SAR (W/kg)	1g Limit (W/kg)
		channel	MHz				
Body-worn	Fixed	128	824.2	22.79	--	--	1.6
Body-worn	Fixed	190	836.6	22.72	0.112	0.733	1.6
Body-worn	Fixed	251	848.8	22.65	--	--	1.6
GPRS850 2slot with GMSK Modulation							
Body-worn	Fixed	190	836.6	22.65	-0.077	0.195	1.6
GPRS850 3slot with GMSK Modulation							
Body-worn	Fixed	190	836.6	22.68	-0.069	0.315	1.6
GPRS850 4slot with GMSK Modulation							
Body-worn	Fixed	190	836.6	22.69	0.046	0.272	1.6
Body-front (GPRS 4slot)	Fixed	190	836.6	22.69	-0.052	0.264	1.6
Body-worn (With headset) (GPRS 4slot)	Fixed	190	836.6	22.69	-0.101	0.190	1.6
Note: when the 1-g SAR is ≤ 0.8 W/kg, testing for low and high channel is optional. refer to KDB 941225.							

SAR MEASUREMENT							
Ambient Temperature (°C) : 21.0 ±2				Relative Humidity (%): 52			
Liquid Temperature (°C) : 21.0 ±2				Depth of Liquid (cm):>15			
Product: MOBILE PHONE							
Test Mode: PCS1900 with GMSK modulation							
Test Position Head	Antenna Position	Frequency		Frame Power (dBm)	Power Drift (<±0.2 dB)	SAR 1g (W/kg)	Limit (W/kg)
		channel	MHz				
Left-Cheek	Fixed	512	1850.2	19.64	--	--	1.6
Left-Cheek	Fixed	661	1880.0	19.76	-0.031	0.577	1.6
Left-Cheek	Fixed	810	1909.8	19.94	--	--	1.6
Left-Tilted	Fixed	661	1880.0	19.76	0.055	0.544	1.6
Right-Cheek	Fixed	512	1850.2	19.64	--	--	1.6
Right-Cheek	Fixed	661	1880.0	19.76	-0.047	0.711	1.6
Right-Cheek	Fixed	810	1909.8	19.94	--	--	1.6
Right-Tilted	Fixed	661	1880.0	19.76	0.016	0.560	1.6
Note: when the 1-g SAR is ≤ 0.8 W/kg, testing for low and high channel is optional. refer to KDB 941225.							

SAR MEASUREMENT							
Ambient Temperature (°C) : 21.0 ±2				Relative Humidity (%): 52			
Liquid Temperature (°C) : 21.0 ±2				Depth of Liquid (cm):>15			
Product: MOBILE PHONE							
Test Mode: GSM1900 with GMSK modulation							
Test Position Body	Antenna Position	Frequency		Frame Power (dBm)	Power Drift (<±0.2 dB)	SAR 1g (W/kg)	Limit (W/kg)
		channel	MHz				
Body-worn	Fixed	512	1850.2	19.64	--	--	1.6
Body-worn	Fixed	661	1880.0	19.76	-0.033	0.252	1.6
Body-worn	Fixed	810	1909.8	19.94	--	--	1.6
GPRS 1900 2 slot with GMSK modulation							
Body-worn	Fixed	661	1880.0	19.63	0.028	0.178	1.6
GPRS 1900 3 slot with GMSK modulation							
Body-worn	Fixed	661	1880.0	19.68	0.028	0.126	1.6
GPRS 1900 4 slot with GMSK modulation							
Body-worn	Fixed	661	1880.0	19.83	0.028	0.126	1.6
Body-front	Fixed	661	1880.0	19.76	0.051	0.586	1.6
Body- worn (with headset)	Fixed	661	1880.0	19.76	-0.112	0.362	1.6
Note: when the 1-g SAR is ≤ 0.8 W/kg, testing for low and high channel is optional. refer to KDB 941225.							



**Appendix A. SAR System Validation Data**

Test Laboratory: AGC Lab

data time: 2012-02-25

**System Check Head 900 MHz**

**DUT: Dipole 900 MHz Type: SID 900**

Communication System: CW; Communication System Band: D850(850.0 MHz); Duty Cycle: 1:1; ConvF=6.79

Frequency: 850 MHz; Medium parameters used:  $f = 850$  MHz;  $\sigma = 0.92$  mho/m;  $\epsilon_r = 39.9$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;

Phantom section: Flat Section ; Input Power=20dBm

Ambient temperature ( °C): 21.0, Liquid temperature (°C): 21.0

Satimo Configuration:

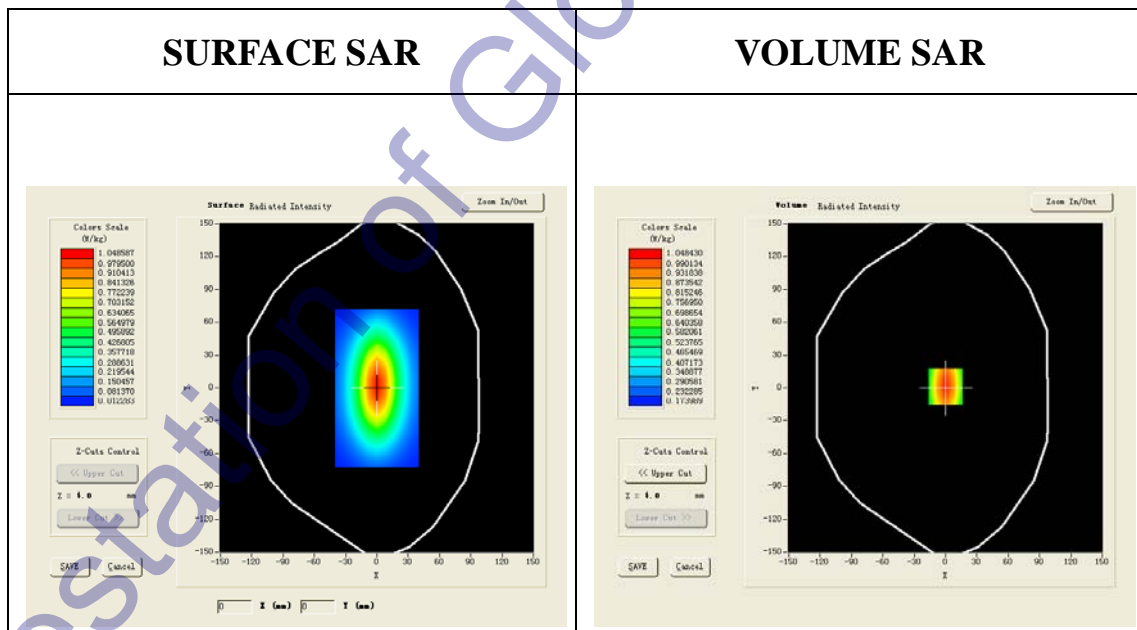
Probe:SSE5; Calibrated: 12/09/2011

- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM1; Type: SAM
- Measurement SW: OpenSAR V4\_02\_01

**Configuration/System Check GSM850 Head/Area Scan:** Measurement grid: dx=8mm, dy=8mm

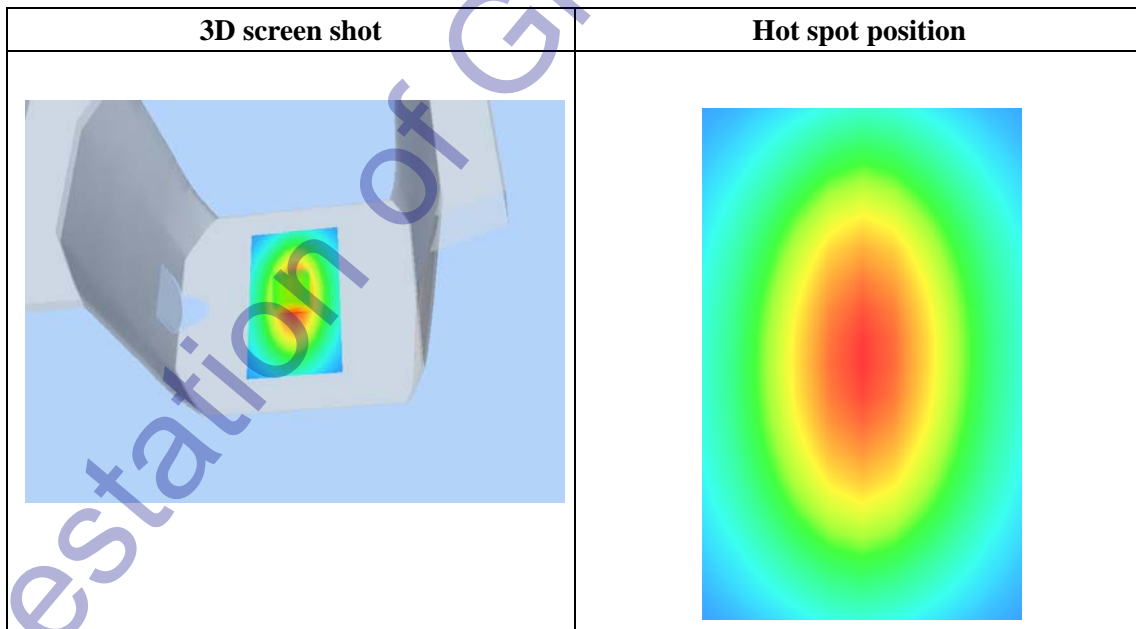
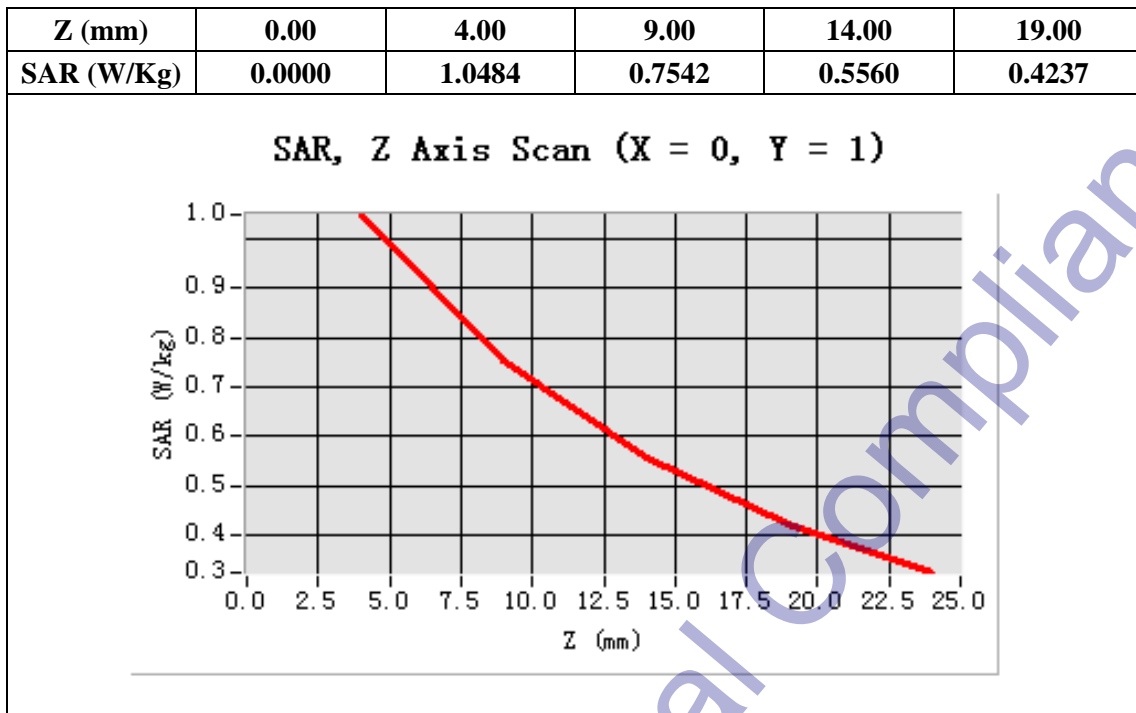
**Configuration/System Check GSM850 Head/Zoom Scan :** Measurement grid: dx=8mm, dy=8mm, dz=5mm

**SAR(1 g) = 0.998 W/Kg; SAR(10 g) = 0.679 W/Kg ,Zoom SAR (1g)=1.048W/Kg**



**Maximum location: X=0.00, Y=1.00**

<b>SAR 10g (W/Kg)</b>	0.678894
<b>SAR 1g (W/Kg)</b>	0.997904



Test Laboratory: AGC Lab

data time: 2012-02-25

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;ConvF=6.42

Frequency: 1900 MHz; Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.41$  mho/m;  $\epsilon_r = 39.87$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;

Phantom section: Flat Section ; Input Power=20dBm

Ambient temperature ( ): 21.5, Liquid temperature °C: 21.0

Satimo Configuration:

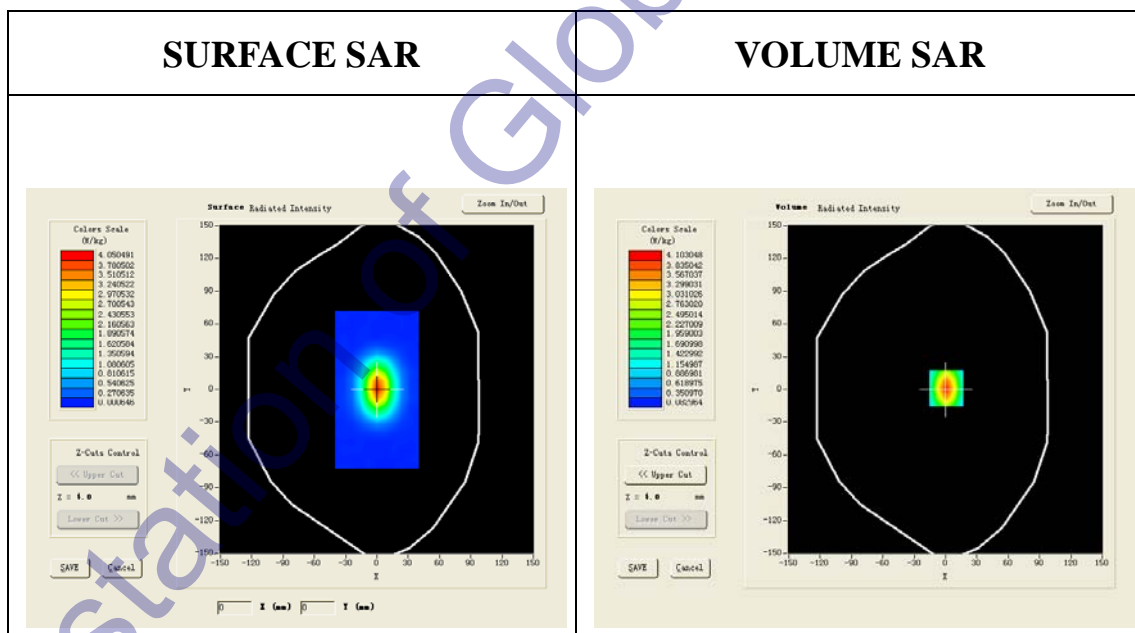
Probe:SSE5; Calibrated: 09/12/2011

- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM1; Type: SAM
- Measurement SW: OpenSAR V4\_02\_01

**Configuration/System Check PCS1900 Head/Area Scan:** Measurement grid: dx=8mm, dy=8mm

**Configuration/System Check PCS1900 Head/Zoom Scan:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

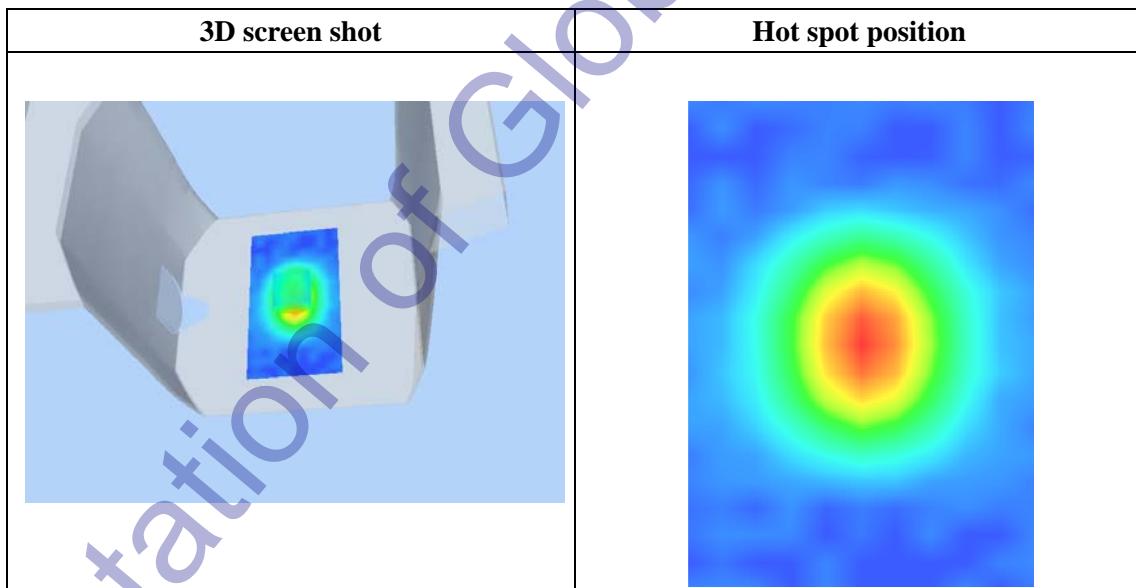
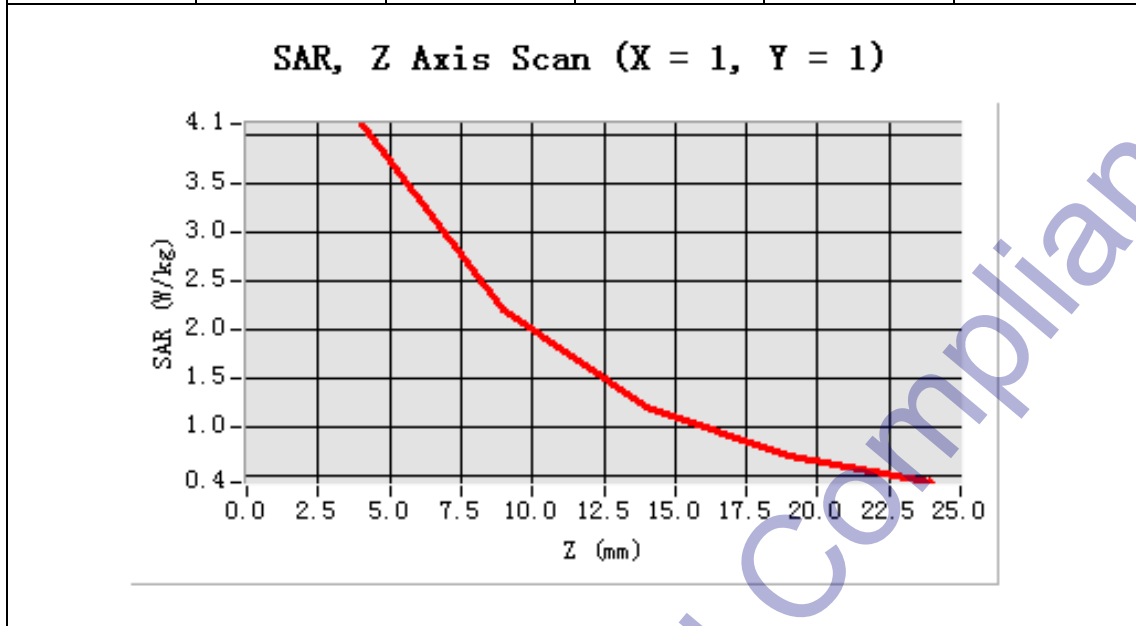
**SAR(1 g) = 3.781W/Kg; SAR(10 g) = 1.910 W/Kg ;Zoom SAR(1g)=4.103 W/Kg**



**Maximum location: X=1.00, Y=1.00**

<b>SAR 10g (W/Kg)</b>	1.910404
<b>SAR 1g (W/Kg)</b>	3.780893

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	4.1030	2.1952	1.1966	0.7058



Attestation of Global Compliance

## Appendix B. SAR measurement Data

Test Laboratory: AGC Lab

data time: 2012-02-25

GSM 850 Middle-touch-Left#

**DUT: Mobile Phone ; Type: HG-M306+**

Communication System: Generic GSM; Communication System Band: GSM 850; DutyCycle:1: 8; Conv.F=6.79

Frequency: 836.6 MHz; Medium parameters used:  $f = 835$  MHz;  $\sigma = 0.92$  mho/m;  $\epsilon_r = 39.9$ ;

$\rho = 1000$  kg/m<sup>3</sup> ; Phantom section: Left Section

Ambient temperature (°C): 21.0, Liquid temperature (°C): 21.0

Satimo Configuration:

Probe:SSE5; Calibrated: 09/12/2011

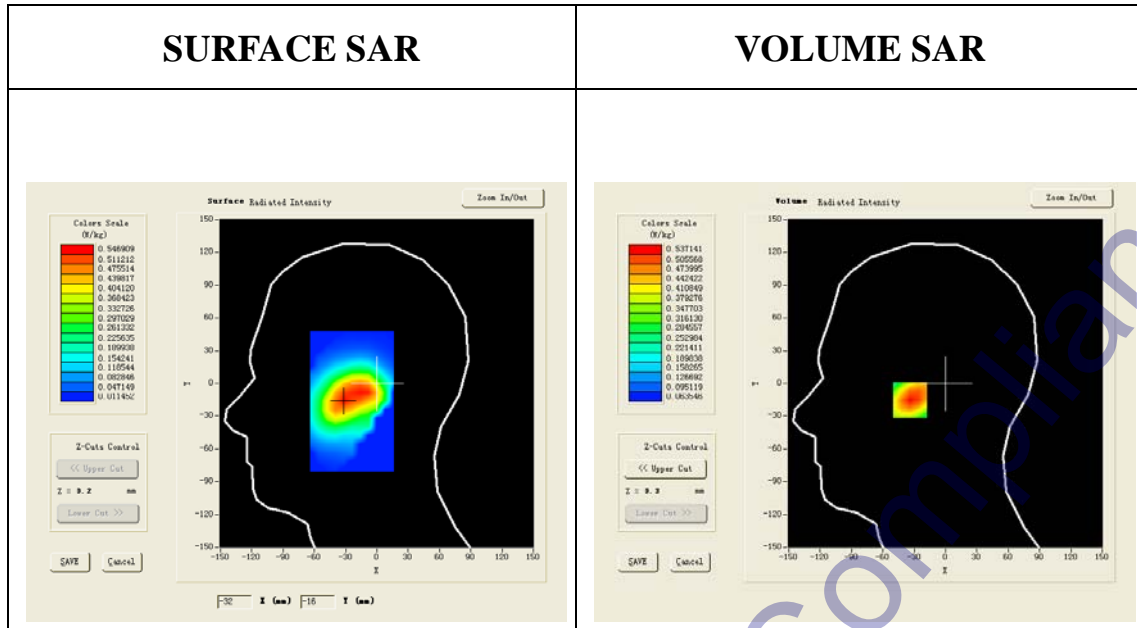
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM1; Type: SAM
- Measurement SW: OpenSAR V4\_02\_01

**Configuration/GSM850 Mid Touch-Left/Area Scan (6x8x1):** Measurement grid: dx=20mm, dy=20mm

**Configuration/GSM850 Mid Touch-Left/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

**SAR(1 g) = 0.512 W/Kg; SAR(10 g) = 0.340 W/Kg Zoom SAR (1g) = 0.537 W/Kg**

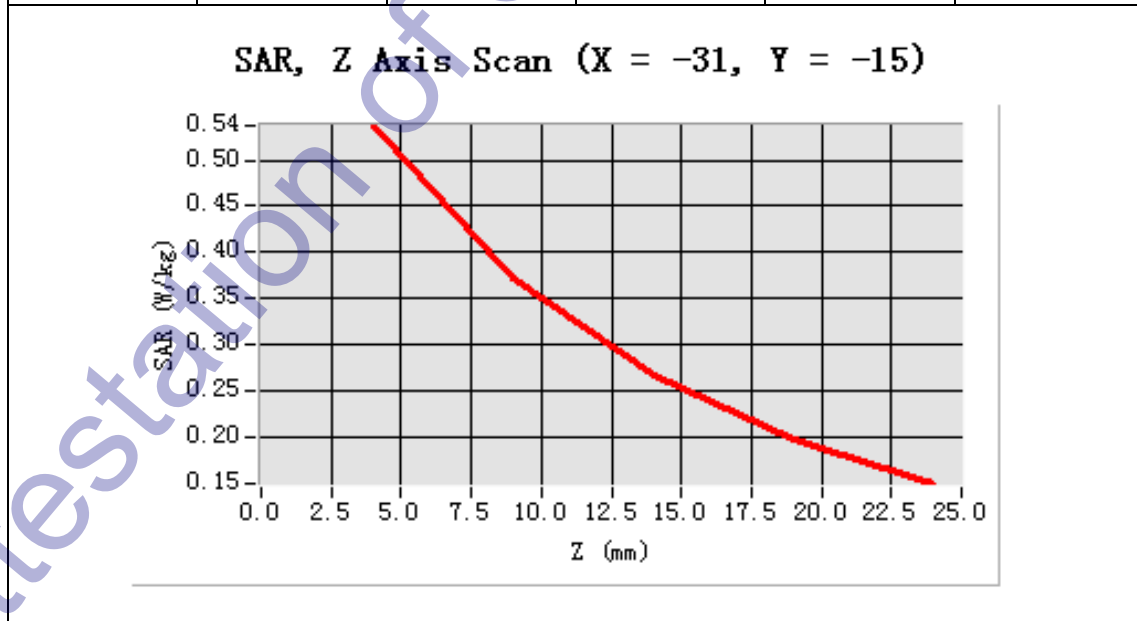
<b>Area Scan</b>	sam_direct_droit2_surf8mm.txt
<b>ZoomScan</b>	5x5x7,dx=8mm dy=8mm dz=5mm,Very fast
<b>Phantom</b>	Left head
<b>Device Position</b>	Cheek
<b>Band</b>	GSM850
<b>Channels</b>	Middle
<b>Signal</b>	TDMA (Crest factor: 8.0)

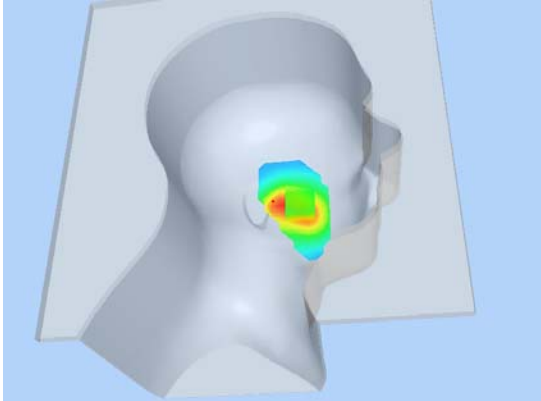
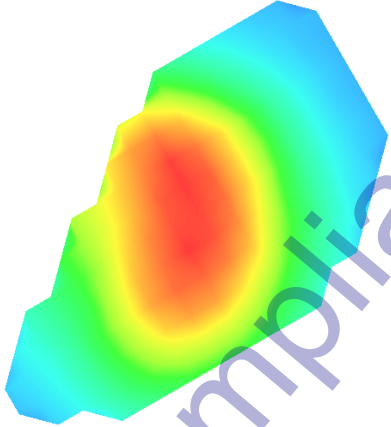


**Maximum location: X=-31.00, Y=-15.00**

<b>SAR 10g (W/Kg)</b>	0.340489
<b>SAR 1g (W/Kg)</b>	0.512297

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.5371	0.3720	0.2654	0.1978



3D screen shot	Hot spot position
 A 3D rendering of a human head and neck model in profile, facing right. A color-coded hot spot is visible on the ear area, with a red center transitioning through yellow and green to blue at the edges. The model is set against a light blue background.	 A close-up view of the hot spot from the 3D model. It shows a color gradient from a bright red center, transitioning through yellow and green, to a light blue outer edge. The shape is roughly oval and appears to be a cross-section or a specific view of the ear area.

Attestation of Global Compliance

Test Laboratory: AGC Lab

data time: 2012-02-25

GSM 850 Mid Tilt-left#

**DUT: Mobile Phone ; Type: HG-M306+**

Communication System: Generic GSM; Communication System Band: GSM 850; Duty Cycle:1:8; Conv.F=6.79

Frequency: 836.6 MHz; Medium parameters used:  $f = 835$  MHz;  $\sigma = 0.92$  mho/m;  $\epsilon_r = 39.9$ ; $\rho = 1000$  kg/m<sup>3</sup> ; Phantom section: Left Section

Ambient temperature (°C): 21.0, Liquid temperature(°C): 21.0

Satimo Configuration:

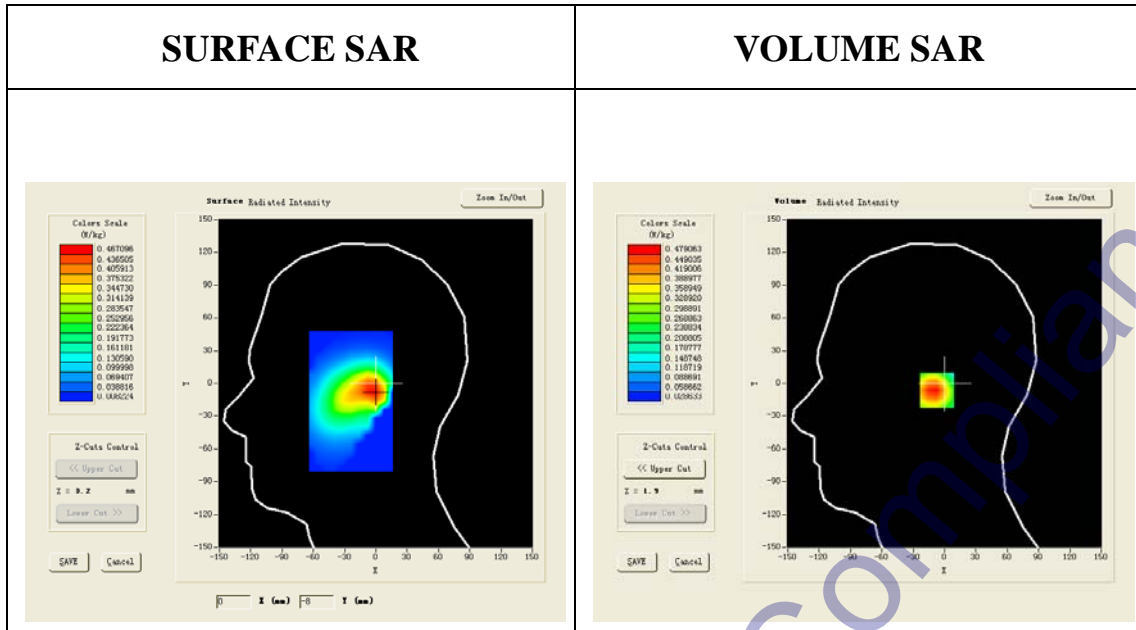
Probe:SSE5; Calibrated: 09/12/2011

- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM1; Type: SAM
- Measurement SW: OpenSAR V4\_02\_01

**Configuration/GSM850 Mid Tilt-Left/Area Scan (6x8x1):** Measurement grid: dx=20mm, dy=20mm**Configuration/GSM850 Mid Tilt-Left/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm;**SAR(1 g) = 0.458W/Kg; SAR(10 g) = 0.288 W/Kg Zoom SAR(1g)= 0.479 W/Kg**

<b>Area Scan</b>	sam_direct_droit2_surf8mm.txt
<b>ZoomScan</b>	5x5x7,dx=8mm dy=8mm dz=5mm,Very fast
<b>Phantom</b>	Left head
<b>Device Position</b>	Tilt
<b>Band</b>	GSM850
<b>Channels</b>	Middle
<b>Signal</b>	TDMA (Crest factor: 8.0)

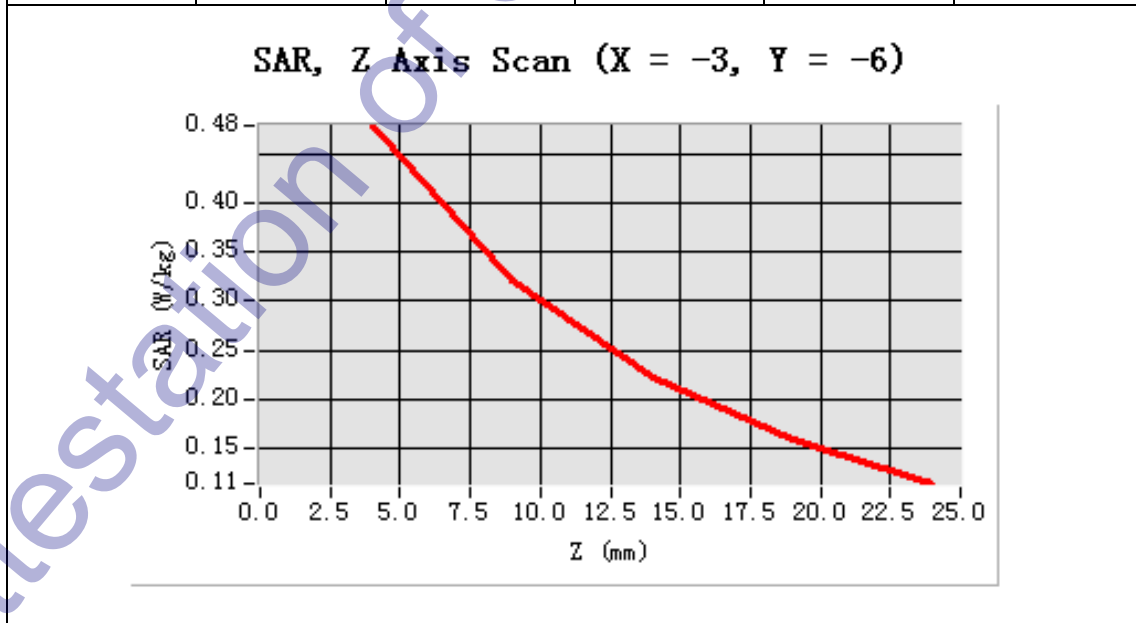


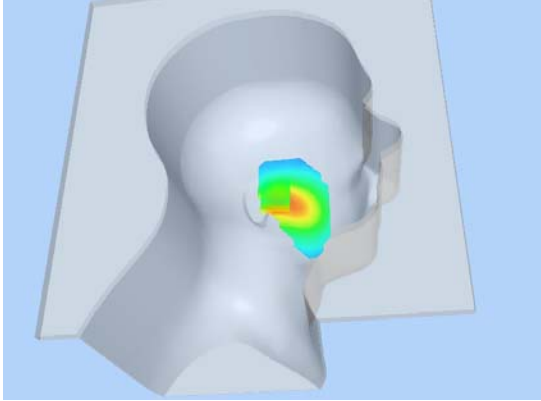
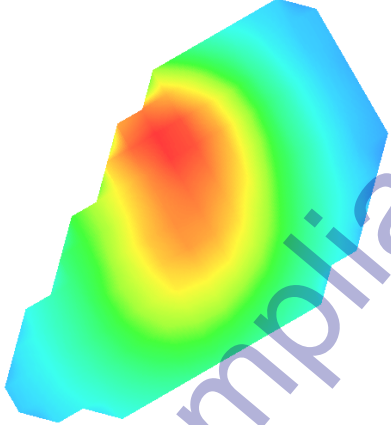


**Maximum location: X=-3.00, Y=-6.00**

<b>SAR 10g (W/Kg)</b>	0.288302
<b>SAR 1g (W/Kg)</b>	0.457869

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.4791	0.3223	0.2219	0.1586



3D screen shot	Hot spot position
 A 3D rendered model of a human head and neck in profile, facing right. A color-coded hot spot is visible on the ear area, with a red center transitioning through yellow and green to blue at the edges.	 A close-up view of the hot spot, showing a color gradient from red (highest intensity) in the center, through yellow and green, to blue (lowest intensity) at the periphery. The shape is roughly oval and irregular.

Attestation of Global Compliance

Test Laboratory: AGC Lab

data time: 2012-02-25

GSM 850 Middle touch-Right#

**DUT: Mobile Phone ; Type: HG-M306+**

Communication System: Generic GSM; Communication System Band: GSM 850; Duty Cycle: 1:8; Conv.F=6.79

Frequency: 836.6 MHz; Medium parameters used:  $f = 835$  MHz;  $\sigma = 0.92$  mho/m; $\epsilon_r = 39.9$ ;  $\rho = 1000$  kg/m<sup>3</sup> ; Phantom section: Right Section

Ambient temperature (°C): 21.0, Liquid temperature (°C): 21.0

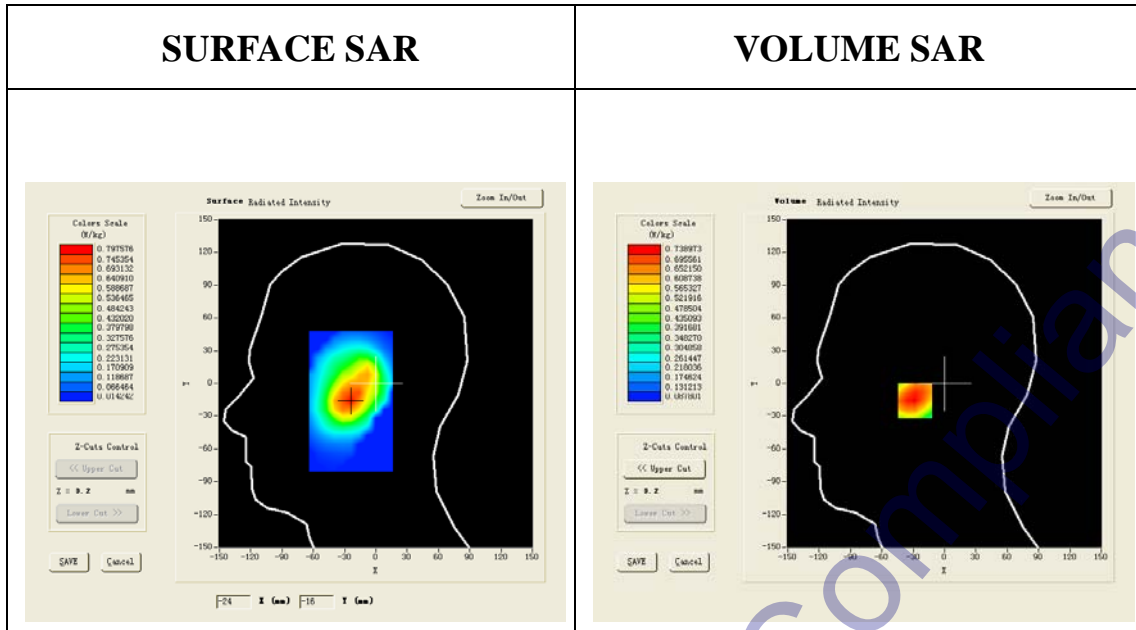
Satimo Configuration:

Probe:SSE5; Calibrated: 09/12/2011

- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM1; Type: SAM
- Measurement SW: OpenSAR V4\_02\_01

**Configuration/GSM850 Mid Touch-Right/Area Scan:** Measurement grid: dx=20mm, dy=20mm**Configuration/GSM850 Mid Touch-Right/Zoom Scan:** Measurement grid: dx=8mm, dy=8mm, dz=5mm;**SAR(1 g) = 0.714 W/g; SAR(10 g) = 0.499 W/g Zoom SAR (1g) = 0.739 W/Kg**

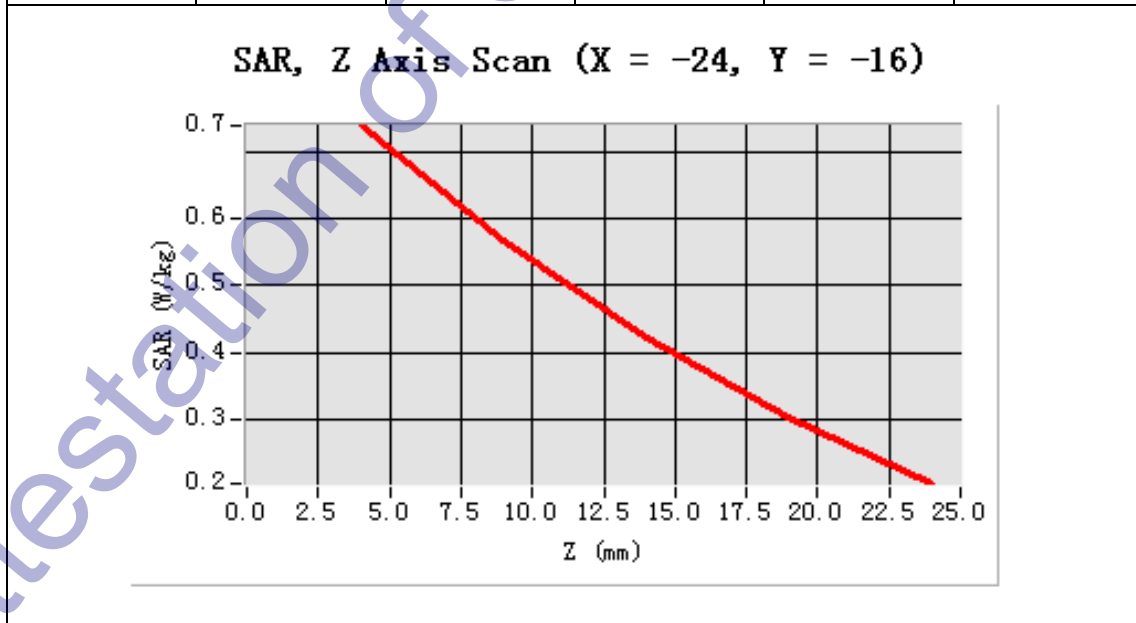
<b>Area Scan</b>	sam_direct_droit2_surf8mm.txt
<b>ZoomScan</b>	5x5x7,dx=8mm dy=8mm dz=5mm,Very fast
<b>Phantom</b>	Right head
<b>Device Position</b>	Cheek
<b>Band</b>	GSM850
<b>Channels</b>	Middle
<b>Signal</b>	TDMA (Crest factor: 8.0)

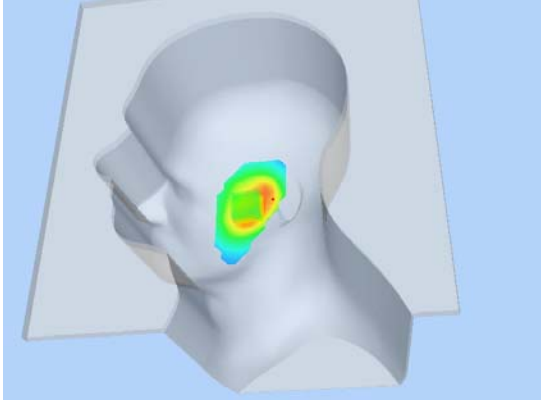
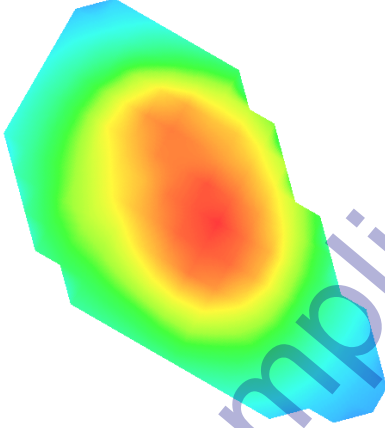


**Maximum location: X=-24.00, Y=-16.00**

<b>SAR 10g (W/Kg)</b>	0.499050
<b>SAR 1g (W/Kg)</b>	0.714050

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.7390	0.5659	0.4212	0.3017



3D screen shot	Hot spot position
	

Attestation of Global Compliance

Test Laboratory: AGC Lab

data time: 2012-02-25

GSM 850 Mid-tilt-Right#

DUT: Mobile Phone ; Type: HG-M306+

Communication System: Generic GSM; Communication System Band: GSM 850; Duty Cycle: 1:8; Conv.F=6.79  
Frequency: 836.6 MHz; Medium parameters used:  $f = 835$  MHz;  $\sigma = 0.92$  mho/m;  $\epsilon_r = 39.9$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;  
Phantom section: Right Section  
Ambient temperature (°C): 21.0, Liquid temperature (°C): 21.0

Satimo Configuration:

Probe:SSE5; Calibrated: 09/12/2011

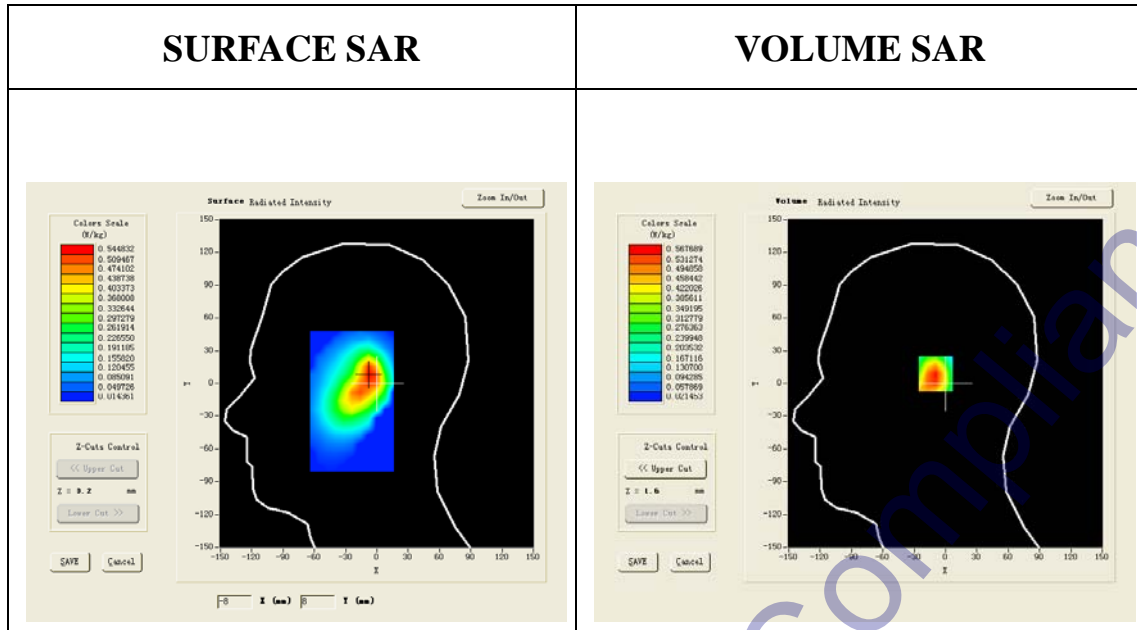
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM1; Type: SAM
- Measurement SW: OpenSAR V4\_02\_01

Configuration/GSM850 Mid Tilt-Right/Area Scan: Measurement grid: dx=20mm, dy=20mm

Configuration/GSM850 Mid Tilt-Right/Zoom Scan: Measurement grid: dx=8mm, dy=8mm, dz=5mm;

SAR(1 g) = 0.540 W/Kg; SAR(10 g) = 0.325W/Kg Zoom SAR(1g) = 0.568 W/Kg

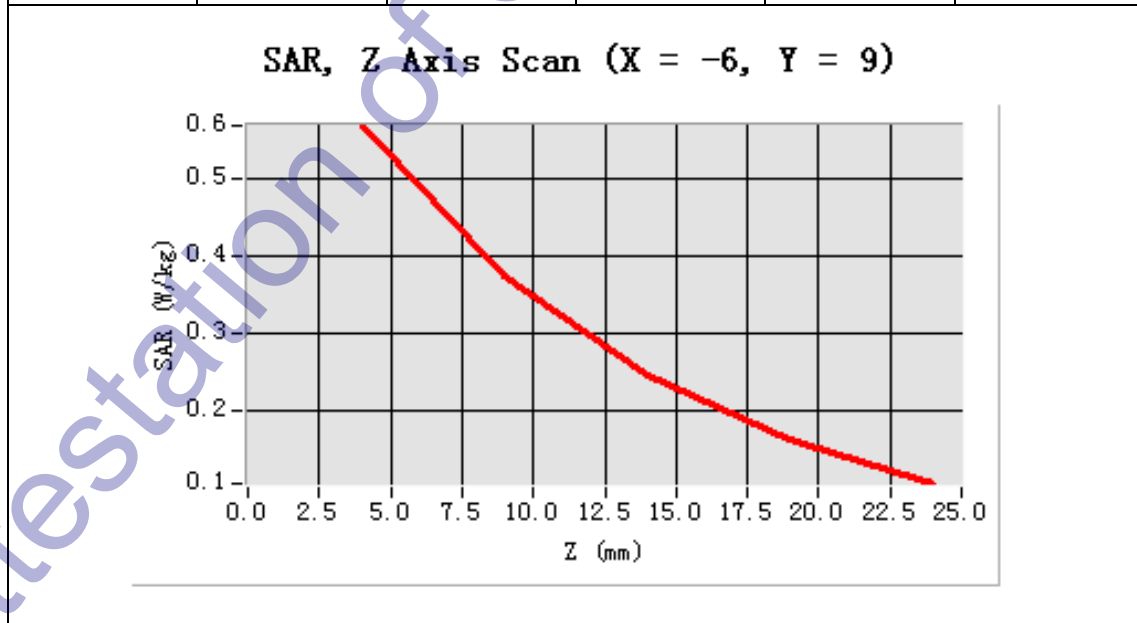
Area Scan	sam_direct_droit2_surf8mm.txt
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Very fast
Phantom	Right head
Device Position	Tilt
Band	GSM850
Channels	Middle
Signal	TDMA (Crest factor: 8.0)

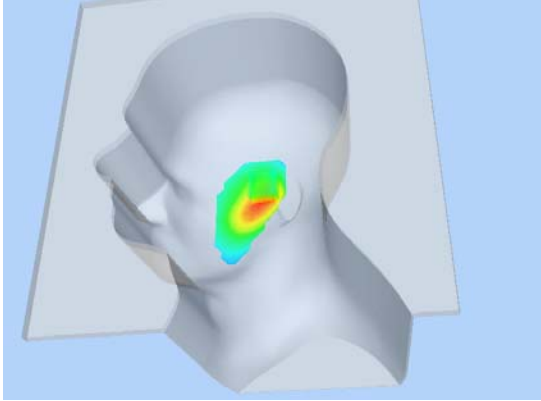
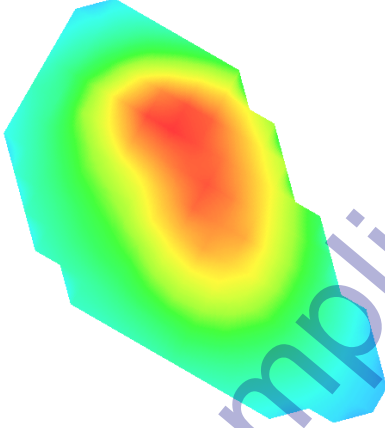


**Maximum location: X=-6.00, Y=9.00**

<b>SAR 10g (W/Kg)</b>	0.325002
<b>SAR 1g (W/Kg)</b>	0.540296

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.5677	0.3731	0.2462	0.1644



3D screen shot	Hot spot position
 A 3D model of a human head in profile, facing left. A color-coded hot spot is visible on the ear area, with a red center transitioning to yellow, green, and blue towards the edges.	 A close-up view of the hot spot, showing a red and yellow core surrounded by a green and blue outer ring.

Attestation of Global Compliance



Test Laboratory: AGC Lab

data time: 2012-02-25

GSM 850 Mid-Body-Worn

**DUT: Mobile Phone; Type: HG-M306+**

Communication System: Generic GSM; Communication System Band: GSM 850; Duty Cycle: 1:8; Conv.F=6.79  
 Frequency: 836.6 MHz; Medium parameters used:  $f = 835$  MHz;  $\sigma = 0.98$  mho/m;  $\epsilon_r = 53.68$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;  
 Phantom section: Flat Section  
 Ambient temperature (°C): 21.0, Liquid temperature (°C): 21.0

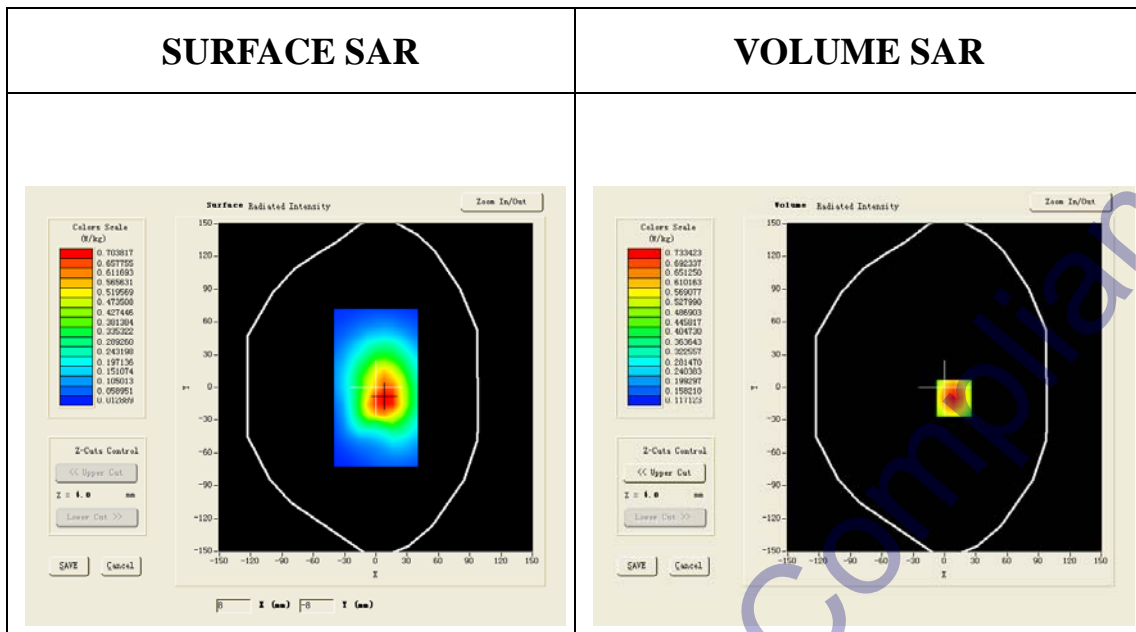
Satimo Configuration:

Probe:SSE5; Calibrated: 09/12/2011

- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM1; Type: SAM
- Measurement SW: OpenSAR V4\_02\_01

**Configuration/GSM850 Mid Body-Back/Area Scan (6x8x1):** Measurement grid: dx=20mm, dy=20mm**Configuration/GSM850 Mid Body-Back/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm;**SAR(1 g) = 0.698W/Kg; SAR(10 g) = 0.460 W/Kg Zoom SAR(1g)= 0.733 W/Kg**

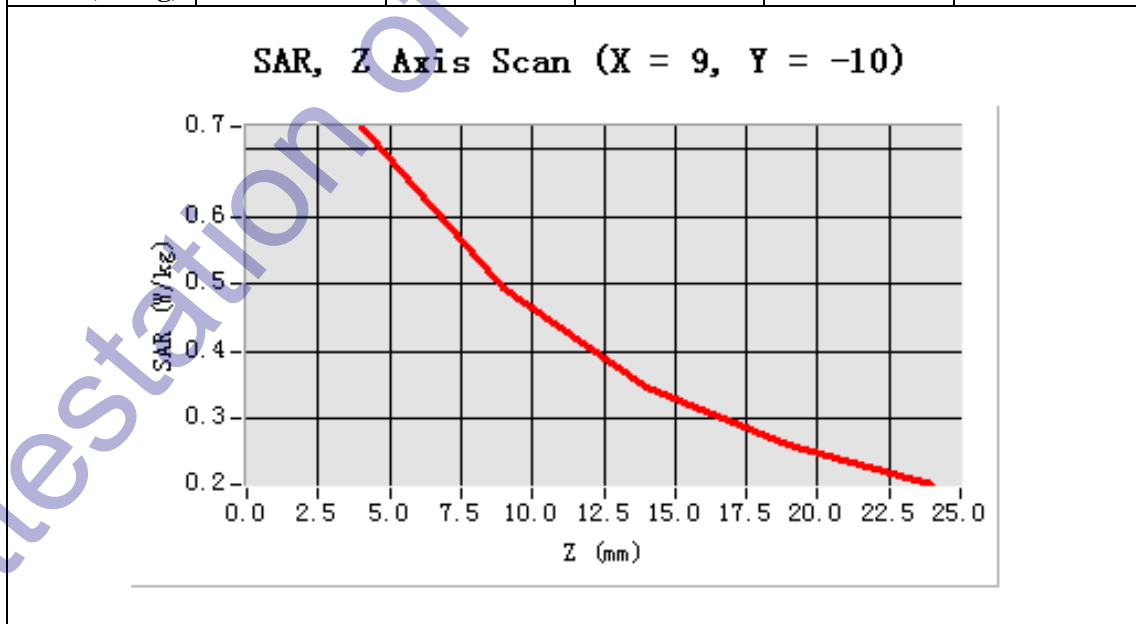
<b>Area Scan</b>	surf_sam_plan.txt
<b>ZoomScan</b>	5x5x7,dx=8mm dy=8mm dz=5mm,Very fast
<b>Phantom</b>	Validation plane
<b>Device Position</b>	Body
<b>Band</b>	GSM850
<b>Channels</b>	Middle
<b>Signal</b>	TDMA (Crest factor: 8.0)

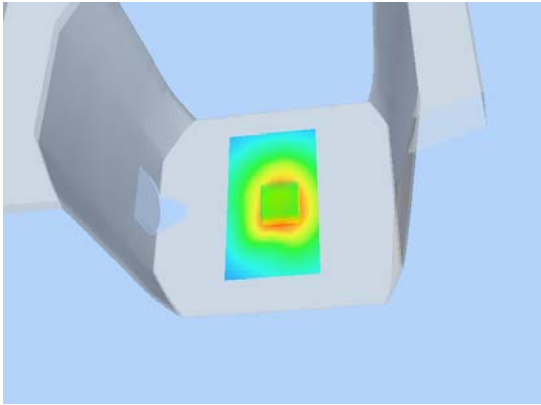
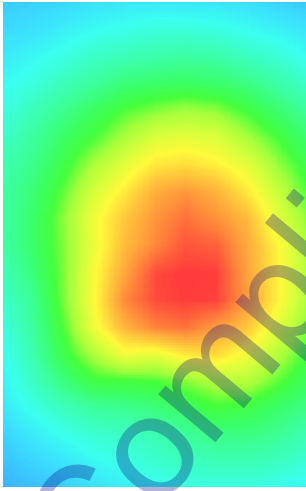


**Maximum location: X=9.00, Y=-10.00**

<b>SAR 10g (W/Kg)</b>	0.459796
<b>SAR 1g (W/Kg)</b>	0.698513

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.7334	0.4947	0.3485	0.2619



3D screen shot	Hot spot position
 A 3D CAD model of a grey mechanical component. A rectangular area on the front face of the component is highlighted with a color gradient from blue to red, indicating a hot spot. The red is concentrated in the center of the rectangle.	 A 2D heatmap showing the hot spot position. The heatmap is rectangular and shows a color gradient from blue (low temperature) to red (high temperature). The red is concentrated in the center, with yellow and green surrounding it, and blue at the edges.

Attestation of Global Compliance

Test Laboratory: AGC Lab

data time: 2012-02-25

GSM 850 Mid-body- Worn (2up)#

**DUT: GSM Mobile Phone; Type: HG-M306+**

Communication System: GPRS-2 Slot; Communication System Band: GSM850;Duty Cycle:1:4.2 ; Conv.F=6.79

Frequency: 836.6 MHz; Medium parameters used:  $f = 835$  MHz;  $\sigma = 0.98$  mho/m;  $\epsilon_r = 53.68$ ;  $\rho = 1000$ kg/m<sup>3</sup> ; Phantom section: Flat Section

Ambient temperature (°C): 21.0, Liquid temperature (°C): 21.0

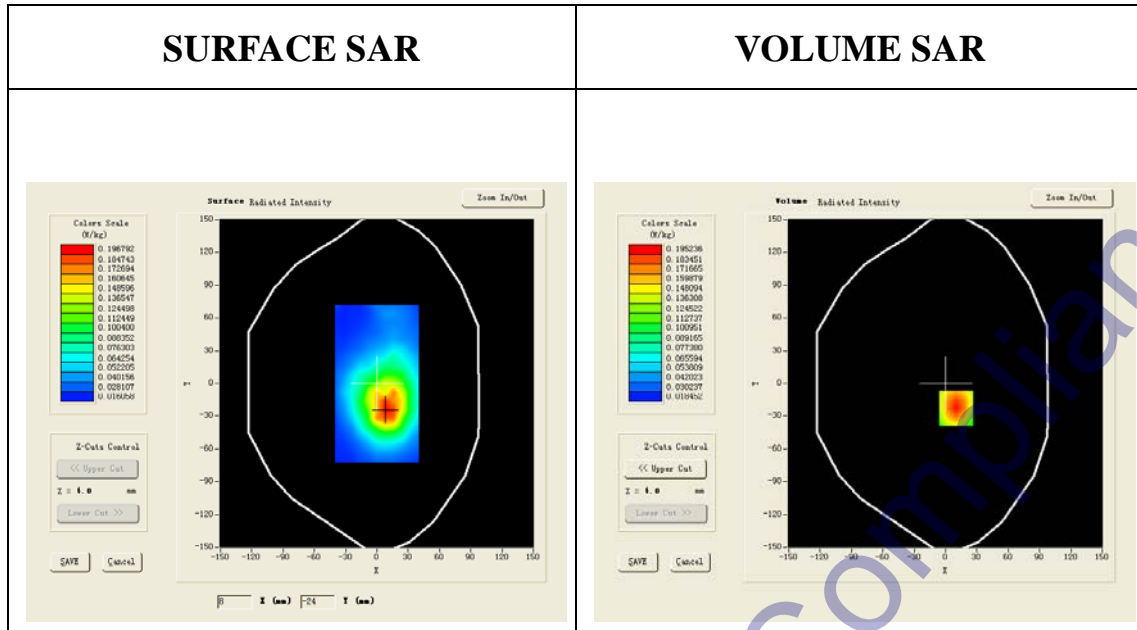
Satimo Configuration:

Probe:SSE5; Calibrated: 09/12/2011

- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM1; Type: SAM
- Measurement SW: OpenSAR V4\_02\_01

**Configuration/GPRS850 Mid Body-Back/Area Scan (6x8x1):** Measurement grid: dx=20mm, dy=20mm**Configuration/GPRS850 Mid Body-Back/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm;**SAR(1 g) = 0.185W/Kg; SAR(10 g) = 0.116 W/Kg Zoom SAR (1g) = 0.195 W/Kg**

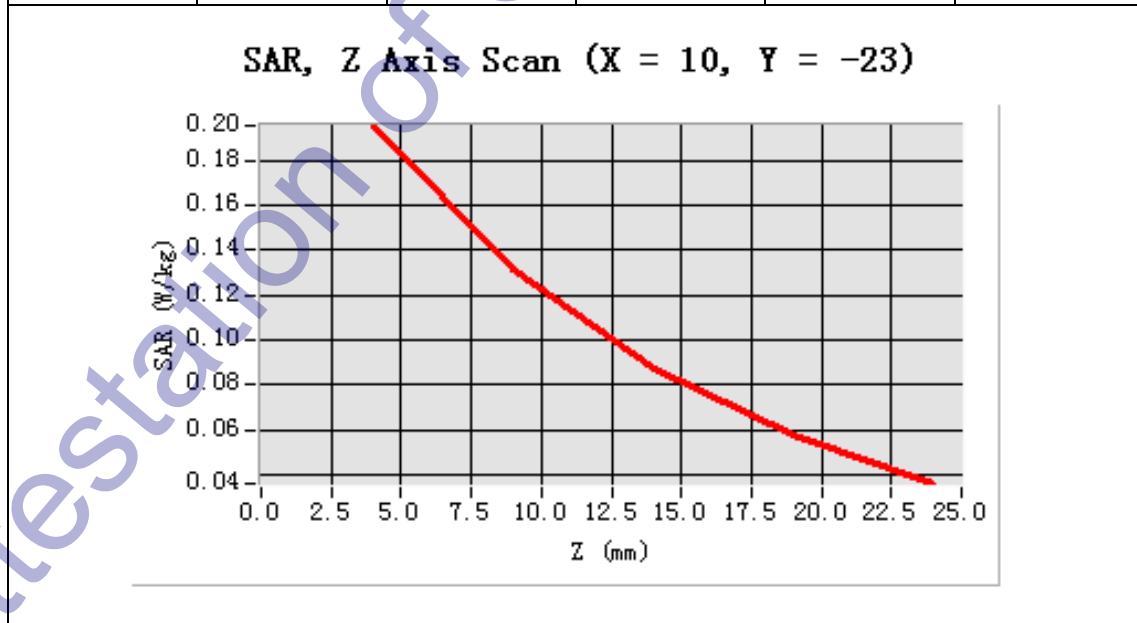
<b>Area Scan</b>	surf_sam_plan.txt
<b>ZoomScan</b>	5x5x7,dx=8mm dy=8mm dz=5mm,Very fast
<b>Phantom</b>	Validation plane
<b>Device Position</b>	Body
<b>Band</b>	GSM850
<b>Channels</b>	Middle
<b>Signal</b>	TDMA (Crest factor: 4.0)

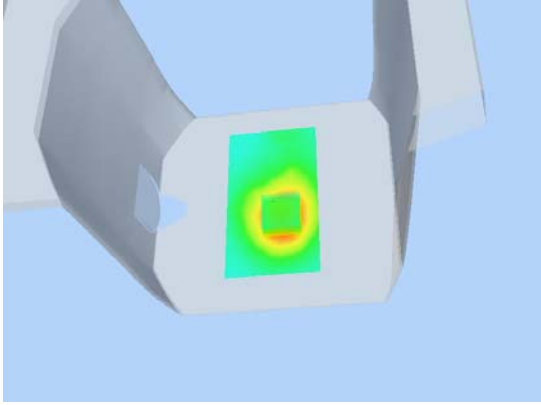
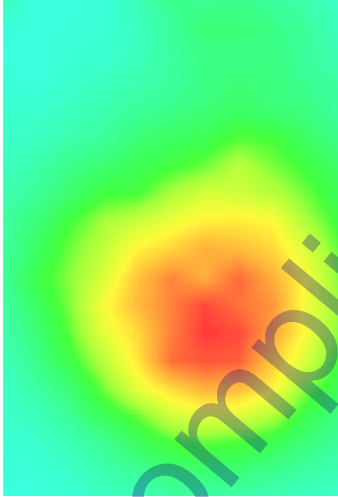


**Maximum location: X=10.00, Y=-23.00**

<b>SAR 10g (W/Kg)</b>	0.116032
<b>SAR 1g (W/Kg)</b>	0.184974

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.1952	0.1310	0.0872	0.0576



3D screen shot	Hot spot position
 A 3D perspective view of a grey mechanical component. A rectangular area on the front face of the component is highlighted with a color gradient from green to red, indicating a hot spot. The background is a light blue.	 A 2D heatmap showing the spatial distribution of the hot spot. The color scale ranges from green (low intensity) to red (high intensity), with a central red core surrounded by yellow and green areas. The heatmap is rectangular and centered on a white background.

Attestation of Global Compliance

Test Laboratory: AGC Lab

data time: 2012-02-25

GSM 850 Mid-body- Worn (3up)#

**DUT: GSM Mobile Phone; Type: HG-M306+**

Communication System: GPRS-3 Slot; Communication System Band: GSM850;Duty Cycle:1:2.8 ; Conv.F=6.79

Frequency: 836.6 MHz; Medium parameters used:  $f = 835$  MHz;  $\sigma = 0.98$  mho/m;  $\epsilon_r = 53.68$ ;  $\rho = 1000$ kg/m<sup>3</sup> ; Phantom section: Flat Section

Ambient temperature (°C): 21.0, Liquid temperature (°C): 21.0

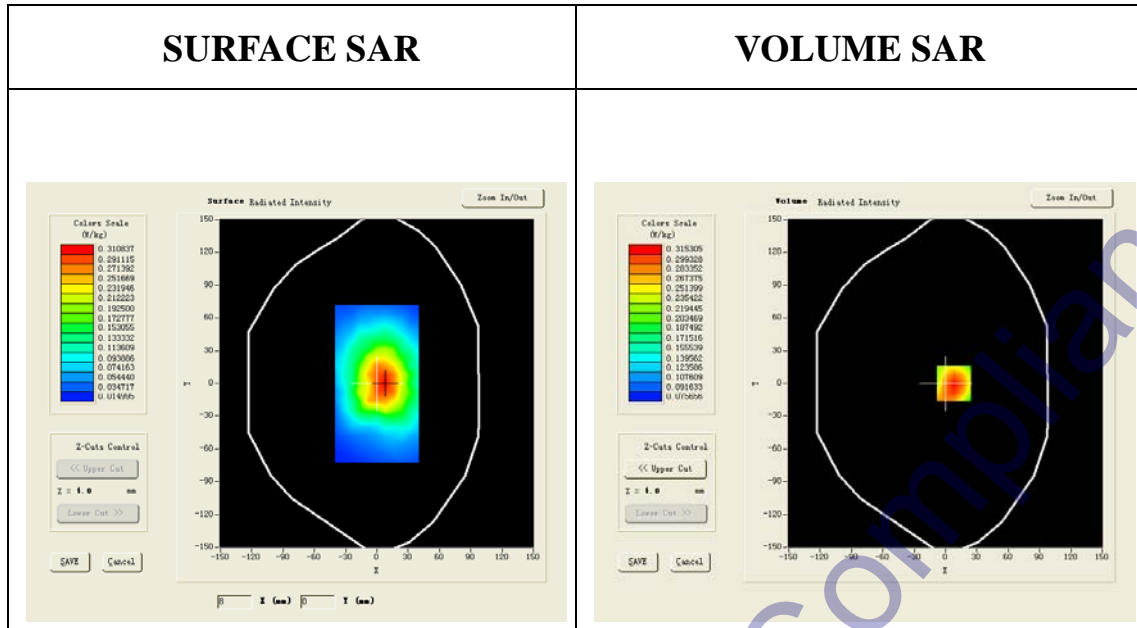
Satimo Configuration:

Probe:SSE5; Calibrated: 09/12/2011

- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM1; Type: SAM
- Measurement SW: OpenSAR V4\_02\_01

**Configuration/GPRS850 Mid Body-Back/Area Scan (6x8x1):** Measurement grid: dx=20mm, dy=20mm**Configuration/GPRS850 Mid Body-Back/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm;**SAR(1 g) = 0.303W/Kg; SAR(10 g) = 0.222 W/Kg Zoom SAR (1g) = 0.315 W/Kg**

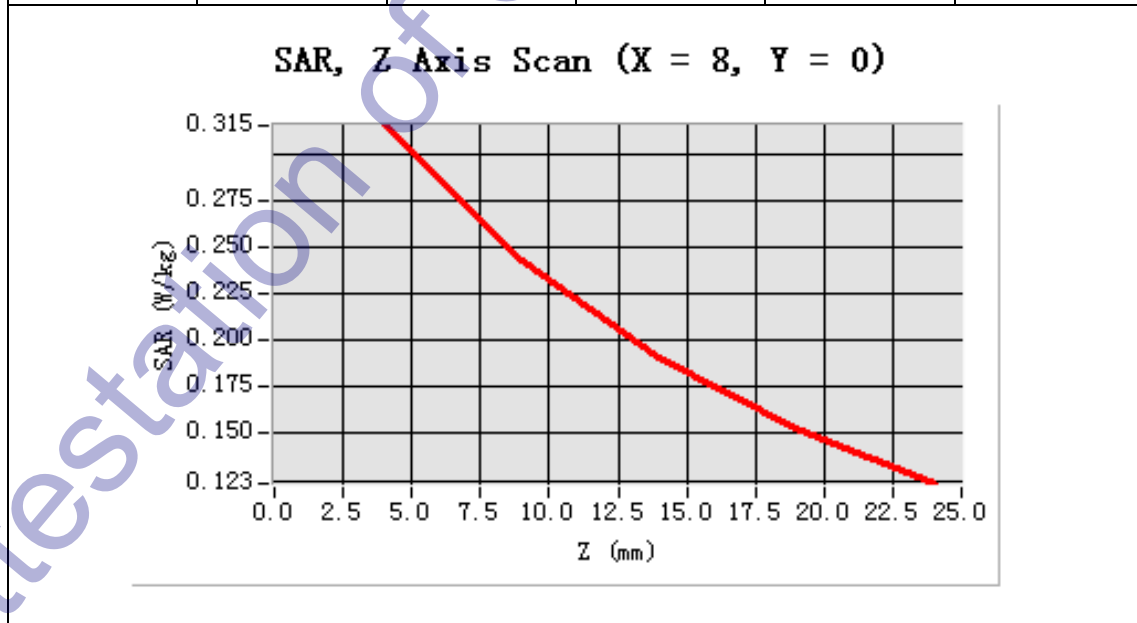
<b>Area Scan</b>	surf_sam_plan.txt
<b>ZoomScan</b>	5x5x7,dx=8mm dy=8mm dz=5mm,Very fast
<b>Phantom</b>	Validation plane
<b>Device Position</b>	Body
<b>Band</b>	GSM850
<b>Channels</b>	Middle
<b>Signal</b>	TDMA (Crest factor: 2.7)



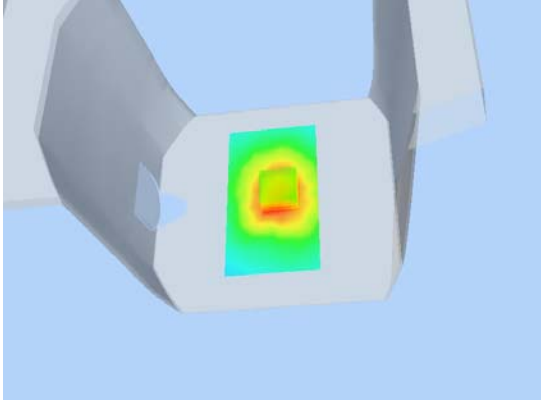
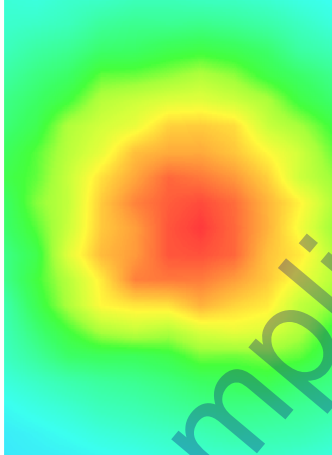
**Maximum location: X=8.00, Y=0.00**

<b>SAR 10g (W/Kg)</b>	0.221506
<b>SAR 1g (W/Kg)</b>	0.303307

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.3153	0.2428	0.1906	0.1530





3D screen shot	Hot spot position
 A 3D perspective view of a grey mechanical component. A rectangular area on the front face of the component is highlighted with a color-coded heatmap, showing a central red/orange region (hot spot) surrounded by yellow and green areas.	 A close-up, vertical rectangular heatmap showing the intensity of the hot spot. The center is a bright red/orange circle, transitioning through yellow and green to a cyan/blue background.

Attestation of Global Compliance

Test Laboratory: AGC Lab

data time: 2012-02-25

GSM 850 Mid-body- Worn (4up)#

**DUT: GSM Mobile Phone; Type: HG-M306+**

Communication System: GPRS-4 Slot; Communication System Band: GSM850;Duty Cycle:1:2.1; Conv.F=6.79

Frequency: 836.6 MHz; Medium parameters used:  $f = 835$  MHz;  $\sigma = 0.98$  mho/m;  $\epsilon_r = 53.68$ ;  $\rho = 1000$ kg/m<sup>3</sup> ; Phantom section: Flat Section

Ambient temperature (°C): 21.0, Liquid temperature (°C): 21.0

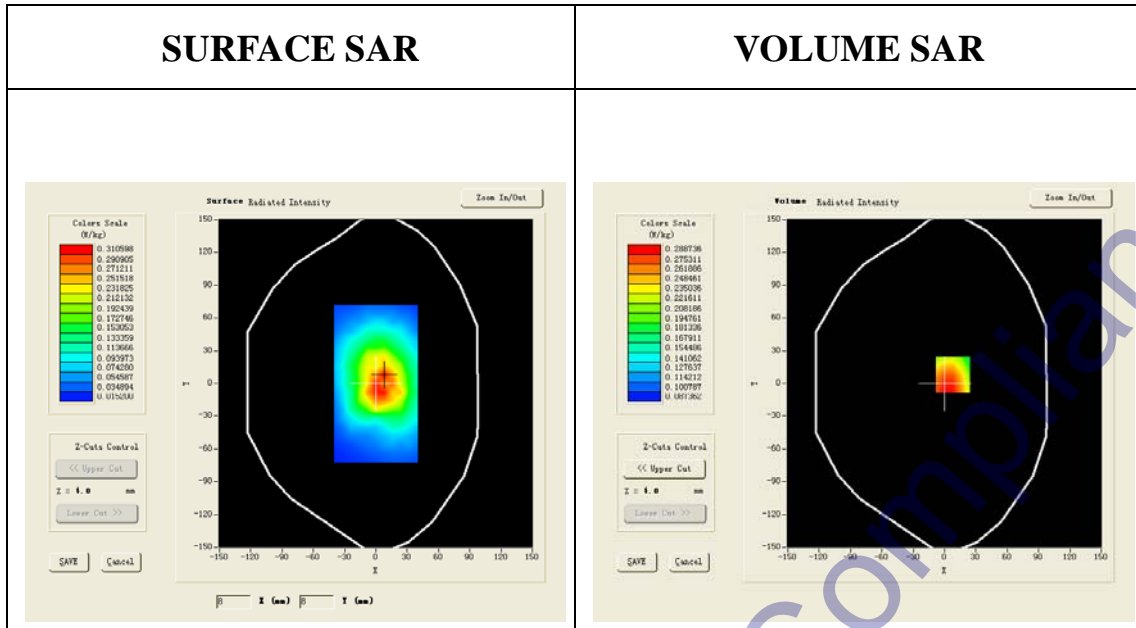
Satimo Configuration:

Probe:SSE5; Calibrated: 09/12/2011

- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM1; Type: SAM
- Measurement SW: OpenSAR V4\_02\_01

**Configuration/GPRS850 Mid Body-Back/Area Scan (6x8x1):** Measurement grid: dx=20mm, dy=20mm**Configuration/GPRS850 Mid Body-Back/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm;**SAR(1 g) = 0.281W/Kg; SAR(10 g) = 0.226 W/Kg Zoom SAR (1g) = 0.272 W/Kg**

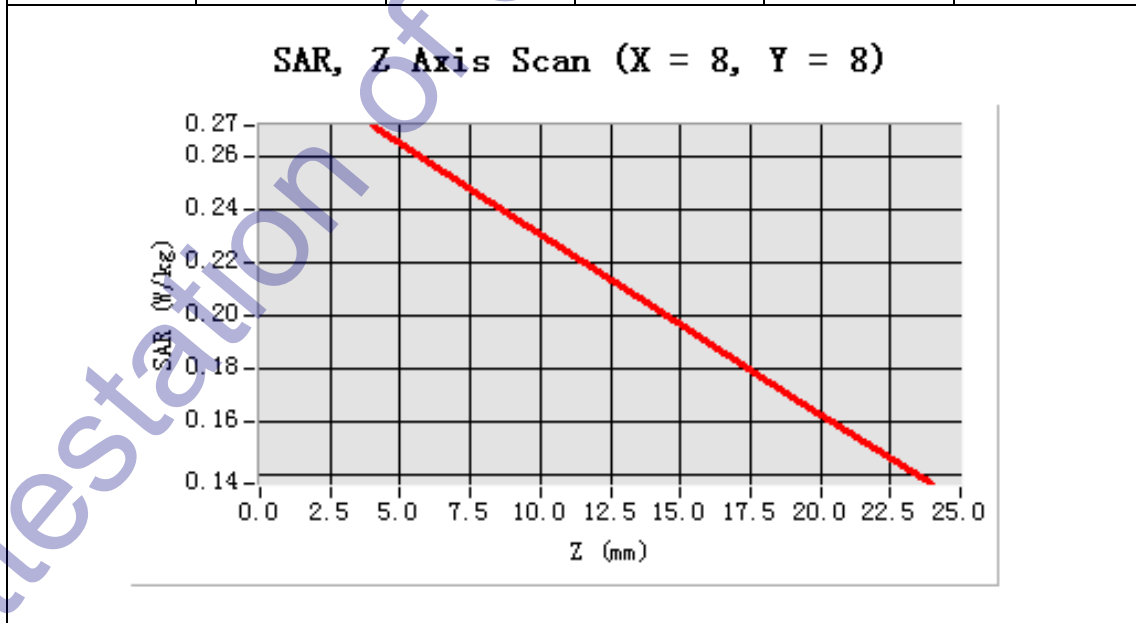
<b>Area Scan</b>	surf_sam_plan.txt
<b>ZoomScan</b>	5x5x7,dx=8mm dy=8mm dz=5mm,Very fast
<b>Phantom</b>	Validation plane
<b>Device Position</b>	Body
<b>Band</b>	GSM850
<b>Channels</b>	Middle
<b>Signal</b>	TDMA (Crest factor: 2.0)

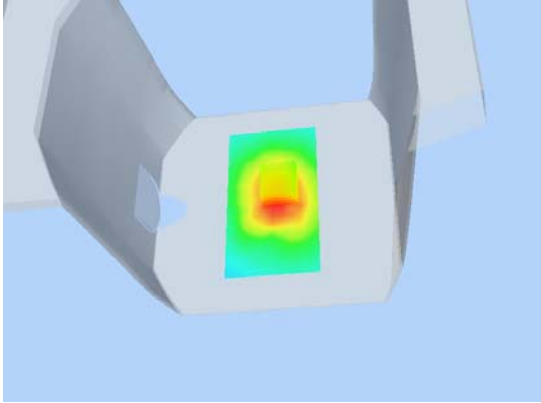


**Maximum location: X=8.00, Y=8.00**

<b>SAR 10g (W/Kg)</b>	0.225586
<b>SAR 1g (W/Kg)</b>	0.281093

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.2716	0.2375	0.2028	0.1686



3D screen shot	Hot spot position
 A 3D perspective view of a grey, rectangular component. A small, rectangular area on the front face of the component is highlighted with a color gradient from green to red, indicating a hot spot.	 A 2D heatmap showing the spatial distribution of the hot spot. The center is a bright red circle, surrounded by concentric rings of yellow, green, and cyan, indicating the intensity of the hot spot.

Attestation of Global Compliance

Test Laboratory: AGC Lab

data time: 2012-02-25

GPRS 850 Front-body- Worn (4up)

**DUT: GSM Mobile Phone; Type: HG-M306+**

Communication System: GPRS-4 Slot; Communication System Band: GSM 850;Duty Cycle:1:2.1 ; ConvF=6.79

Frequency: 836.6 MHz; Medium parameters used:  $f = 835$  MHz;  $\sigma = 0.98$  mho/m;  $\epsilon_r = 53.68$ ;  $\rho = 1000$ kg/m<sup>3</sup> ; Phantom section: Flat Section

Ambient temperature (°C): 21.0, Liquid temperature (°C): 21.0

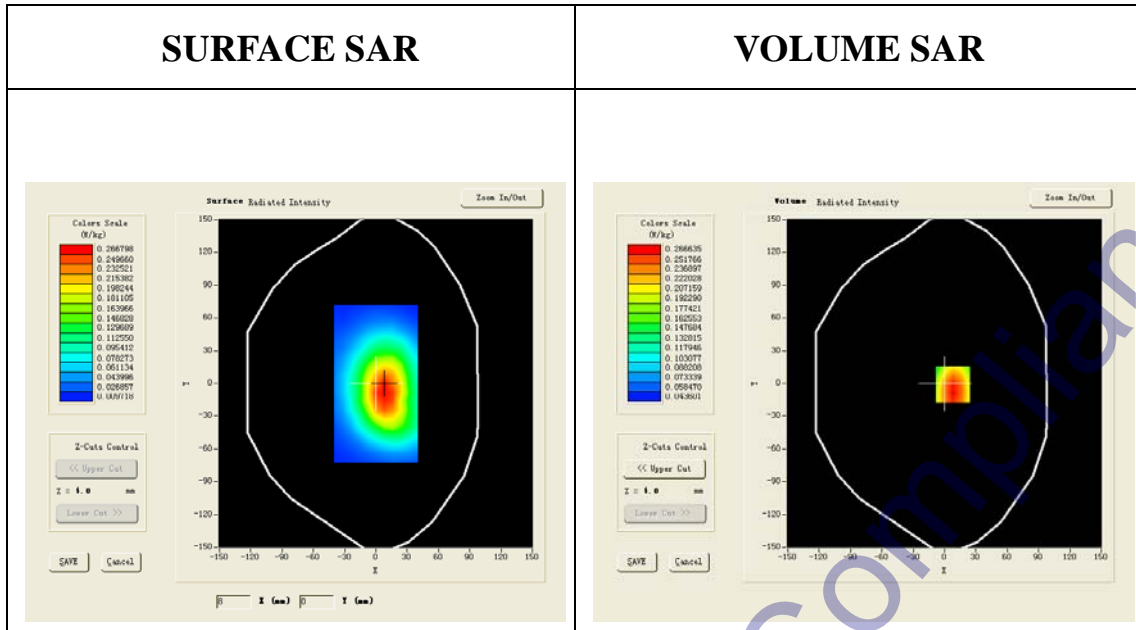
Satimo Configuration:

Probe:SSE5; Calibrated: 09/12/2011

- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM1; Type: SAM
- Measurement SW: OpenSAR V4\_02\_01

**Configuration/GPRS850 Mid Body-Front/Area Scan (6x8x1):** Measurement grid: dx=20mm, dy=20mm**Configuration/GPRS850 Mid Body-Front/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm;**SAR(1 g) = 0.256W/Kg; SAR(10 g) = 0.177 W/Kg; Zoom SAR (1g)= 0.264W/Kg**

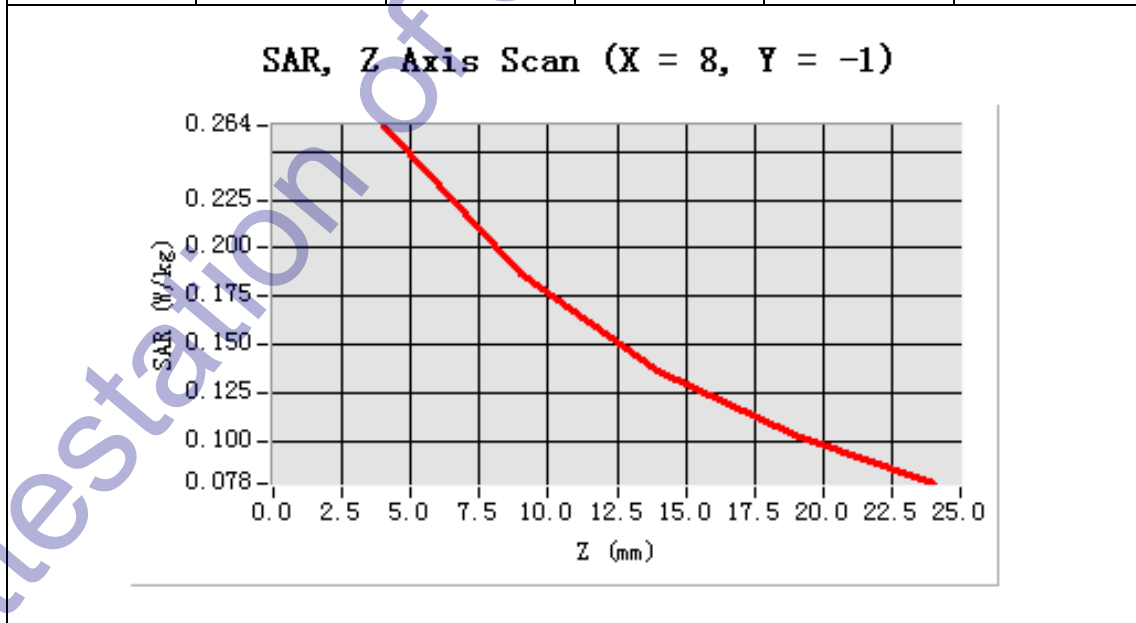
<b>Area Scan</b>	surf_sam_plan.txt
<b>ZoomScan</b>	5x5x7,dx=8mm dy=8mm dz=5mm,Very fast
<b>Phantom</b>	Validation plane
<b>Device Position</b>	Body
<b>Band</b>	GSM850
<b>Channels</b>	Middle
<b>Signal</b>	TDMA (Crest factor:2.0)

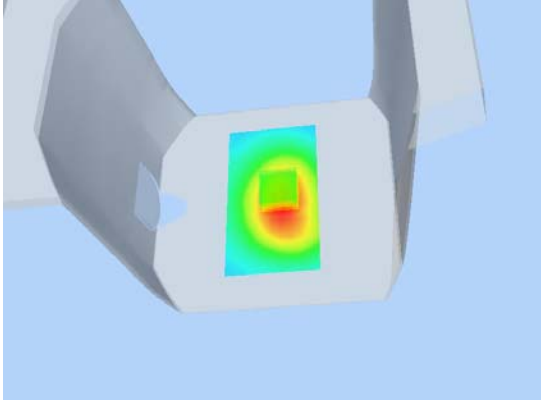
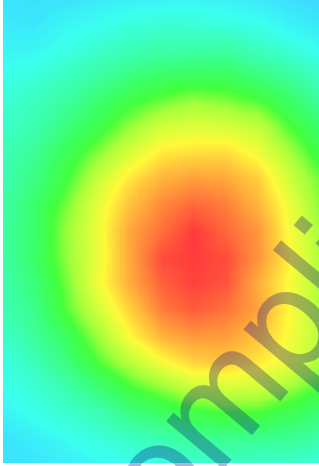


**Maximum location: X=8.00, Y=-1.00**

<b>SAR 10g (W/Kg)</b>	0.176716
<b>SAR 1g (W/Kg)</b>	0.255633

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.2636	0.1873	0.1363	0.1027



3D screen shot	Hot spot position
 A 3D perspective view of a grey, rectangular component. A small, rectangular area on the front face of the component is highlighted with a color gradient from blue to red, indicating a hot spot. The background is a light blue.	 A 2D heatmap showing the spatial distribution of the hot spot. The center of the hot spot is represented by a bright red color, which transitions through yellow and green to a dark blue at the edges. The overall shape is roughly rectangular, matching the component's footprint.

Attestation of Global Compliance

Test Laboratory: AGC Lab

data time: 2012-02-25

GPRS 850 Mid-body- Worn (4up) (With headset)

**DUT: Mobile Phone; Type: HG-M306+**

Communication System: GPRS-4 Slot; Communication System Band: GSM 850;Duty Cycle:1:2.1 ; ConvF=6.79

Frequency: 836.6 MHz; Medium parameters used:  $f = 835$  MHz;  $\sigma = 0.98$  mho/m;  $\epsilon_r = 53.68$ ;  $\rho = 1000$ kg/m<sup>3</sup> ; Phantom section: Flat Section

Ambient temperature (°C): 21.0, Liquid temperature (°C): 21.0

Satimo Configuration:

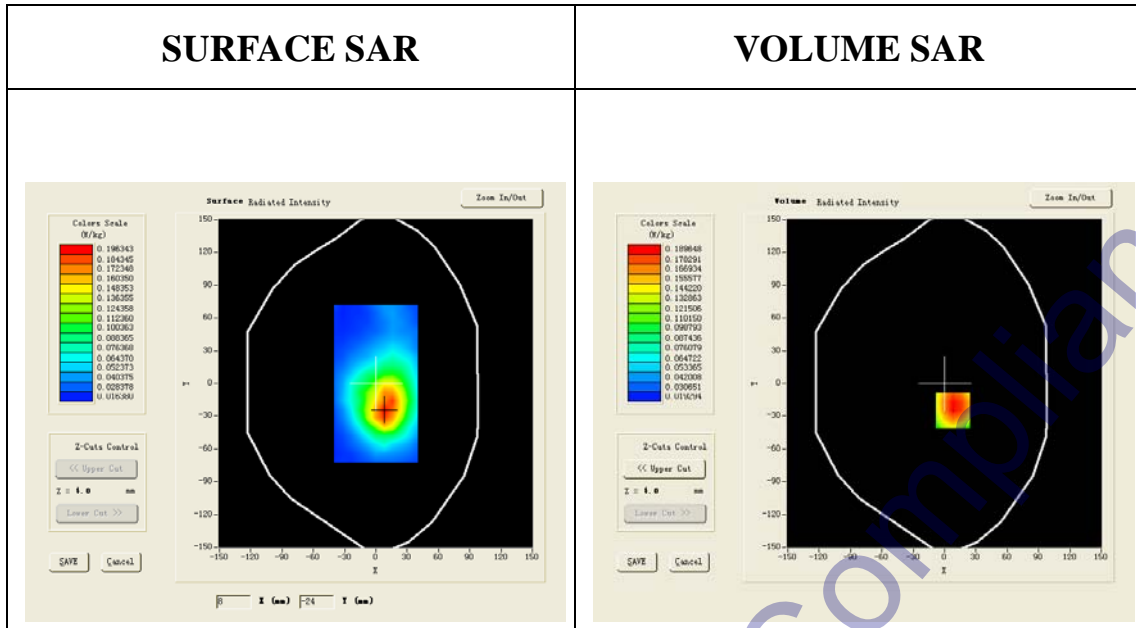
Probe:SSE5; Calibrated: 09/12/2011

- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM1; Type: SAM
- Measurement SW: OpenSAR V4\_02\_01

**Configuration/GPRS850 Mid Body-Back/Area Scan:** Measurement grid: dx=20mm, dy=20mm**Configuration/GPRS850 Mid Body-Back/Zoom Scan:** Measurement grid: dx=8mm, dy=8mm, dz=5mm;**SAR(1 g) = 0.183W/Kg; SAR(10 g) = 0.117 W/Kg; Zoom SAR(1g) = 0.190 W/Kg**

<b>Area Scan</b>	surf_sam_plan.txt
<b>ZoomScan</b>	5x5x7,dx=8mm dy=8mm dz=5mm,Very fast
<b>Phantom</b>	Validation plane
<b>Device Position</b>	Body
<b>Band</b>	GSM850
<b>Channels</b>	Tilt
<b>Signal</b>	TDMA (Crest factor: 2.0)

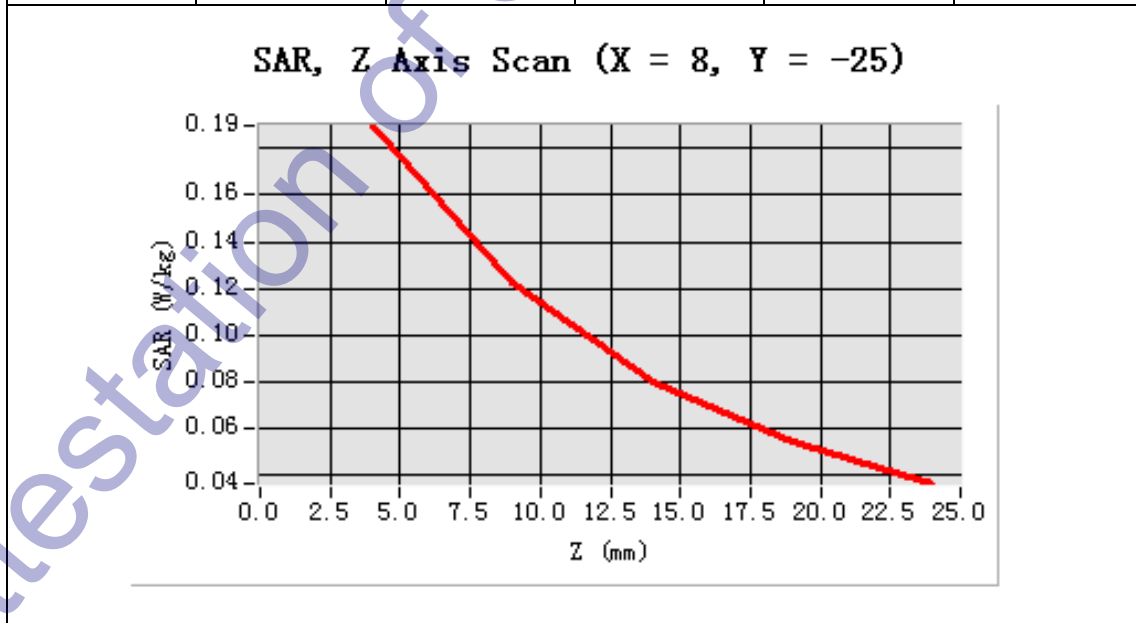


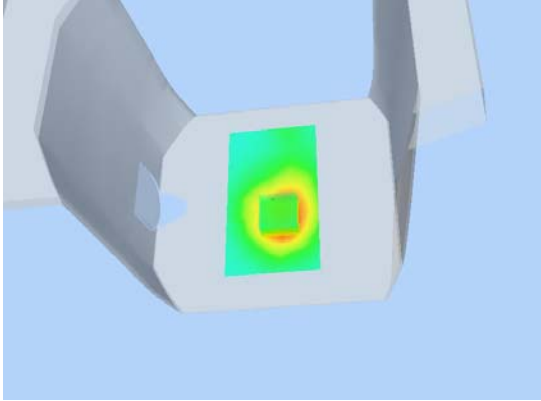
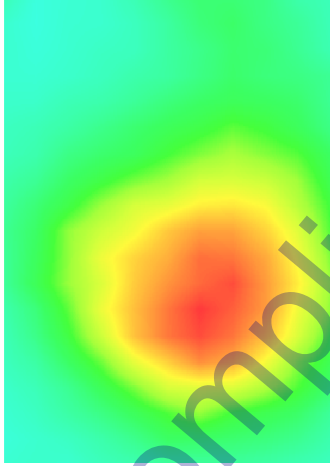


**Maximum location: X=8.00, Y=-25.00**

<b>SAR 10g (W/Kg)</b>	0.116753
<b>SAR 1g (W/Kg)</b>	0.183364

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.1896	0.1221	0.0800	0.0542



3D screen shot	Hot spot position
 A 3D perspective view of a grey mechanical component. A rectangular area on the front face of the component is highlighted with a color gradient from green to red, indicating a hot spot. The background is a light blue.	 A 2D heatmap showing the spatial distribution of the hot spot. The center of the hot spot is represented by a red color, transitioning through yellow and green to a light green background. The shape is roughly circular and centered within a rectangular frame.

Attestation of Global Compliance

Test Laboratory: AGC Lab

data time: 2012-02-25

PCS 1900 Mid-Touch Left

**DUT: Mobile Phone; Type: HG-M306+**

Communication System: Generic GSM;Communication System Band: PCS 1900;Duty Cycle:1:8;ConvF=6.42

Frequency: 1880 MHz; Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.41$  mho/m;  $\epsilon_r = 39.87$ ; $\rho = 1000$  kg/m<sup>3</sup> ; Phantom section: Left Section

Ambient temperature (°C): 21.5, Liquid temperature (°C): 21.0

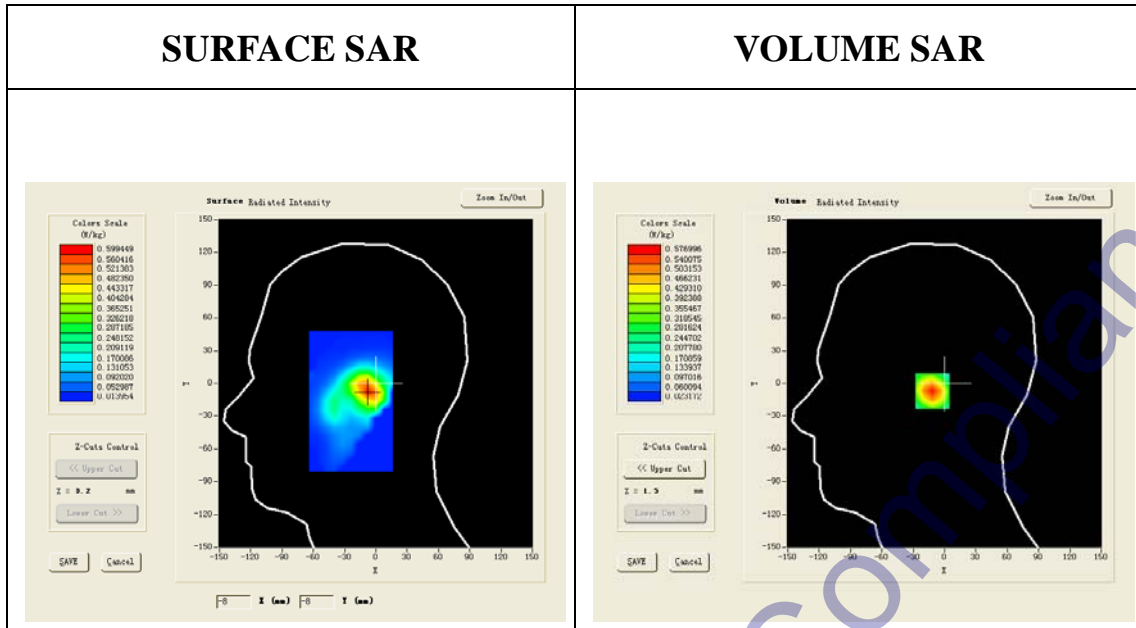
Satimo Configuration:

Probe:SSE5; Calibrated: 09/12/2011

- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM1; Type: SAM
- Measurement SW: OpenSAR V4\_02\_01

**Configuration/PCS1900 Mid Touch-Left/Area Scan:** Measurement grid: dx=20mm, dy=20mm**Configuration/PCS1900 Mid Touch-Left/Zoom Scan:** Measurement grid: dx=8mm, dy=8mm, dz=5mm;**SAR(1 g) = 0.538W/Kg; SAR(10 g) = 0.305W/Kg; Zoom SAR (1g)= 0.577W/Kg**

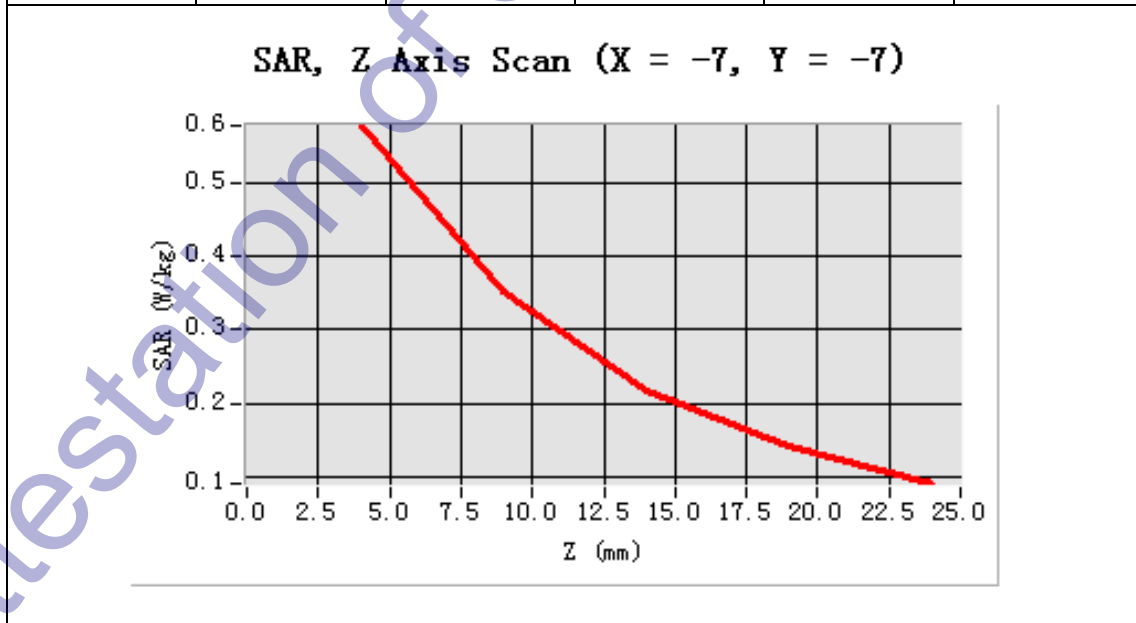
<b>Area Scan</b>	sam_direct_droit2_surf8mm.txt
<b>ZoomScan</b>	5x5x7,dx=8mm dy=8mm dz=5mm,Very fast
<b>Phantom</b>	Left head
<b>Device Position</b>	Cheek
<b>Band</b>	GSM1900
<b>Channels</b>	Middle
<b>Signal</b>	TDMA (Crest factor: 8.0)

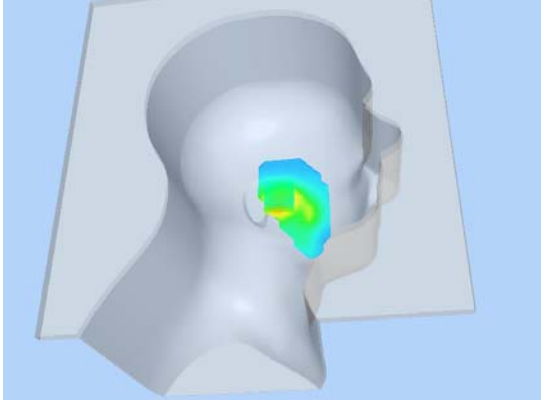
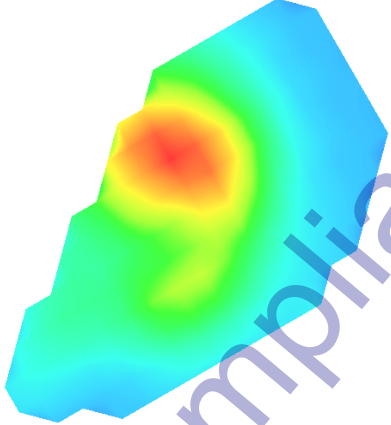


**Maximum location: X=-7.00, Y=-7.00**

<b>SAR 10g (W/Kg)</b>	0.304515
<b>SAR 1g (W/Kg)</b>	0.537698

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.5770	0.3519	0.2184	0.1414



3D screen shot	Hot spot position
 A 3D rendering of a human head and neck model in profile, facing right. A localized area on the ear is highlighted with a color gradient from blue to red, indicating a hot spot. The rest of the head and neck are shown in a light gray color.	 A close-up view of the hot spot area, showing a color gradient from blue (low intensity) to red (high intensity). The hot spot is located in the center of the ear area, with a yellow and orange ring around it, indicating a peak in intensity.

Attestation of Global Compliance

Test Laboratory: AGC Lab

data time : 2012-02-25

PCS 1900 Mid-Tilt-Left

**DUT: Mobile Phone; Type: HG-M306+**

Communication System: Generic GSM; Communication System Band: PCS 1900; Duty Cycle: 1:8; ConvF=6.42

Frequency: 1880 MHz; Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.41$  mho/m;  $\epsilon_r = 39.87$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;

Phantom section: Left Section

Ambient temperature (°C): 21.0, Liquid temperature (°C): 21.0

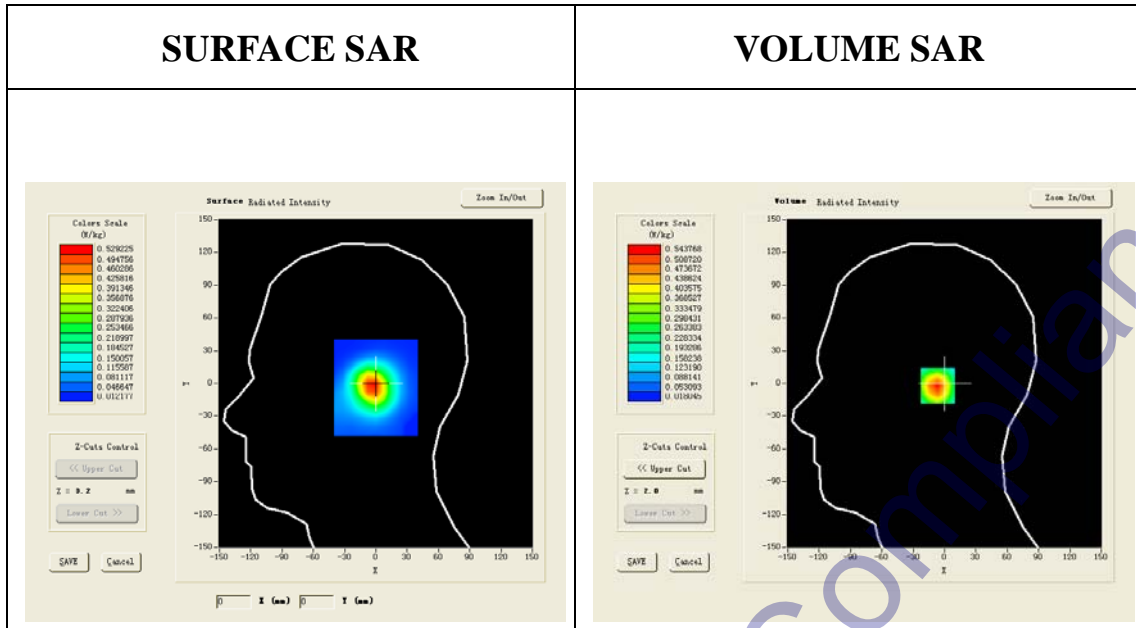
Satimo Configuration:

Probe:SSE5; Calibrated: 09/12/2011

- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM1; Type: SAM
- Measurement SW: OpenSAR V4\_02\_01

**Configuration/PCS1900 Mid Tilt-Left/Area Scan:** Measurement grid: dx=20mm, dy=20mm**Configuration/PCS1900 Mid Tilt-Left/Zoom Scan:** Measurement grid: dx=8mm, dy=8mm, dz=5mm;**SAR(1 g) = 0.509 W/Kg; SAR(10 g) = 0.276 W/Kg; Zoom SAR(1g)= 0.544 W/Kg**

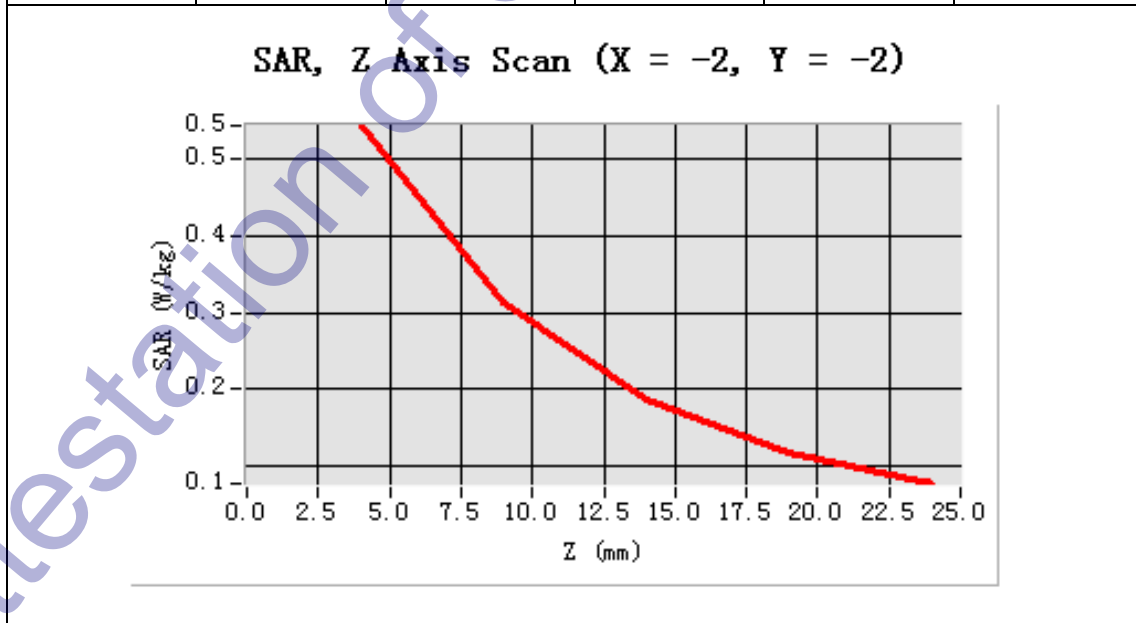
<b>Area Scan</b>	sam_direct_droit2_surf8mm.txt
<b>ZoomScan</b>	5x5x7,dx=8mm dy=8mm dz=5mm,Very fast
<b>Phantom</b>	Left head
<b>Device Position</b>	Tilt
<b>Band</b>	GSM1900
<b>Channels</b>	Middle
<b>Signal</b>	TDMA (Crest factor: 8.0)

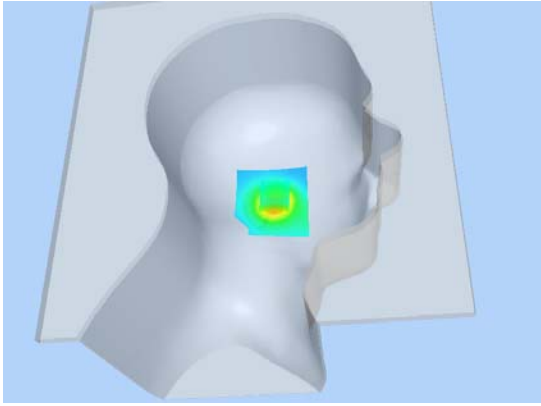
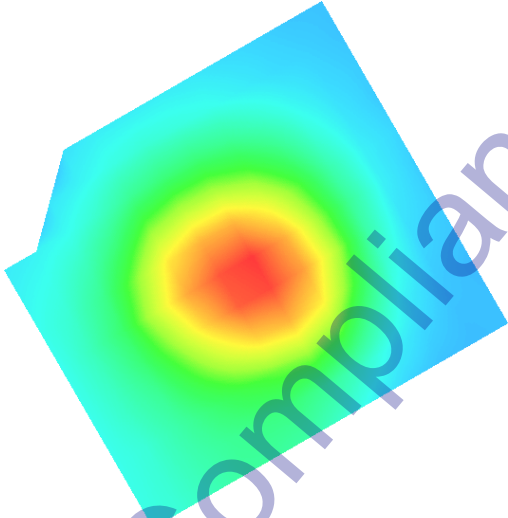


**Maximum location: X=-2.00, Y=-2.00**

<b>SAR 10g (W/Kg)</b>	0.275595
<b>SAR 1g (W/Kg)</b>	0.508706

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.5438	0.3131	0.1854	0.1179



3D screen shot	Hot spot position
 A 3D rendering of a grey mannequin head in profile, facing right. A small, square-shaped hot spot is visible on the forehead area, showing a color gradient from blue to red.	 A diagram showing a hot spot position. It features a color gradient from blue (low intensity) to red (high intensity), with a central red area surrounded by yellow, green, and cyan. The shape is roughly pentagonal.

Attestation of Global Compliance



Test Laboratory: AGC Lab

data time: 2012-02-25

PCS 1900 Mid-Touch Right

**DUT: Mobile Phone; Type: HG-M306+**

Communication System: Generic GSM; Communication System Band: PCS 1900; Duty Cycle: 1:8; ConvF=6.42

Frequency: 1880 MHz; Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.41$  mho/m;  $\epsilon_r = 39.87$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;

Phantom section: Right Section

Ambient temperature (°C): 21.0, Liquid temperature (°C): 21.0

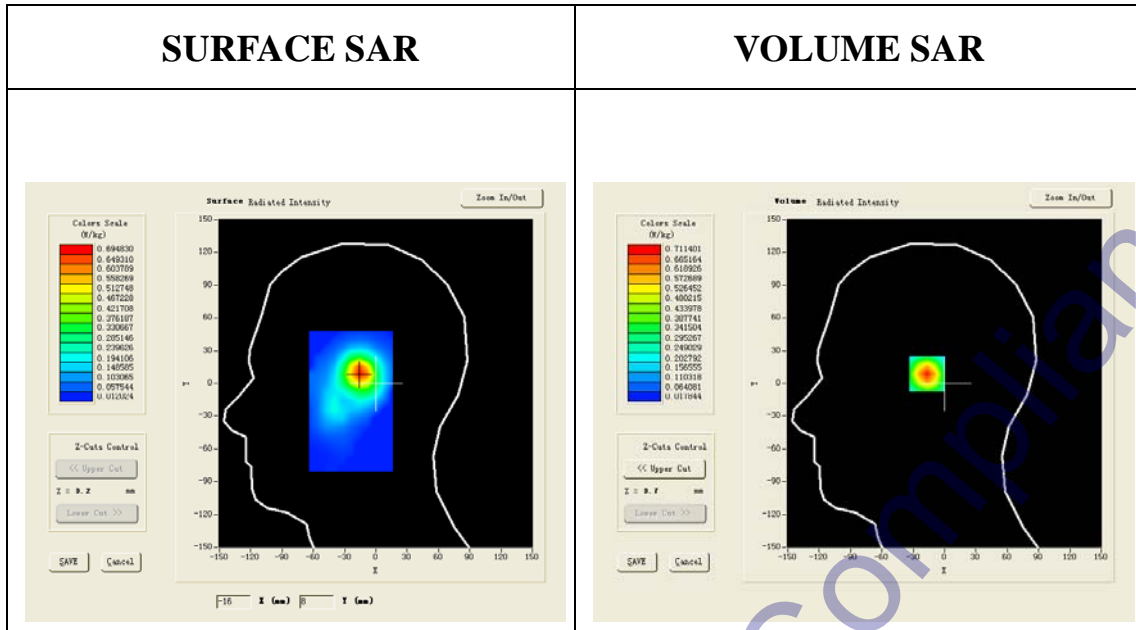
Satimo Configuration:

Probe:SSE5; Calibrated: 09/12/2011

- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM1; Type: SAM
- Measurement SW: OpenSAR V4\_02\_01

**Configuration/PCS1900 Mid Touch-Right/Area Scan:** Measurement grid: dx=20mm, dy=20mm**Configuration/PCS1900 Mid Touch-Right/Zoom Scan:** Measurement grid: dx=8mm, dy=8mm, dz=5mm;**SAR(1 g) = 0.657 W/Kg; SAR(10 g) = 0.349 W/Kg; Zoom SAR(1g)= 0.711 W/Kg**

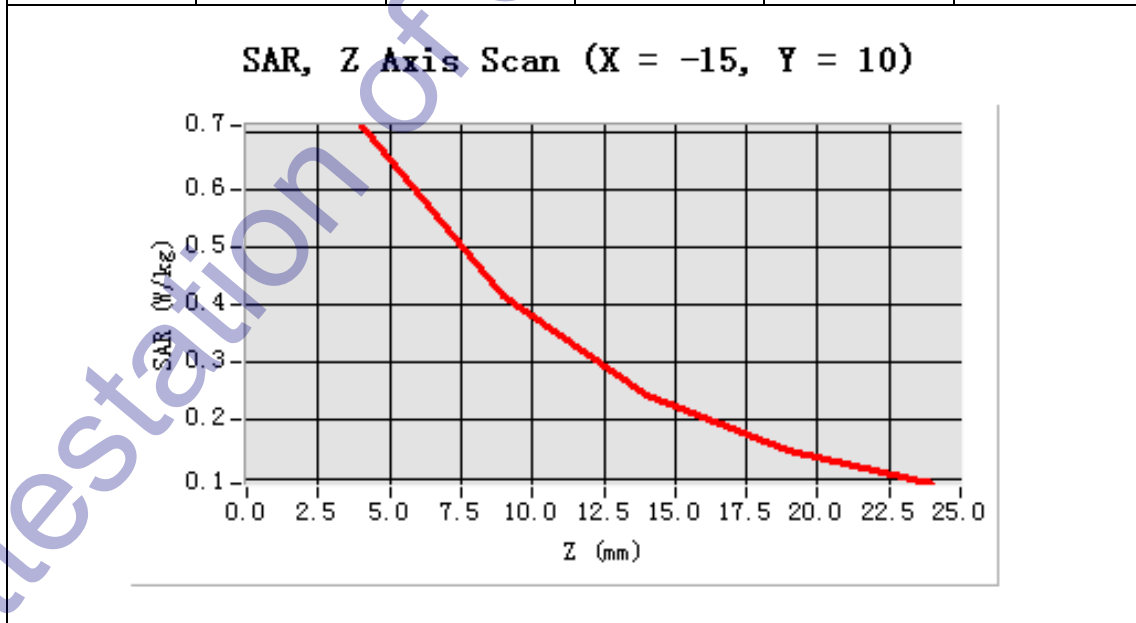
<b>Area Scan</b>	sam_direct_droit2_surf8mm.txt
<b>ZoomScan</b>	5x5x7,dx=8mm dy=8mm dz=5mm,Very fast
<b>Phantom</b>	Right head
<b>Device Position</b>	Cheek
<b>Band</b>	GSM1900
<b>Channels</b>	Middle
<b>Signal</b>	TDMA (Crest factor: 8.0)

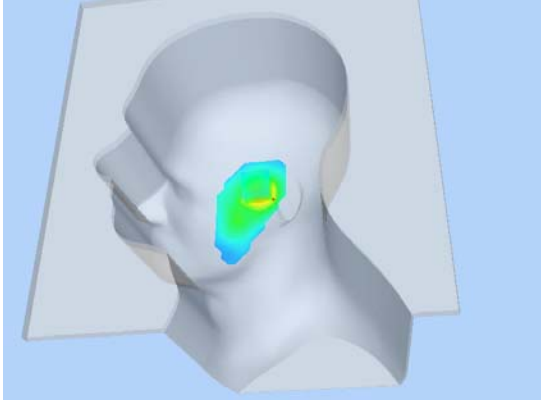
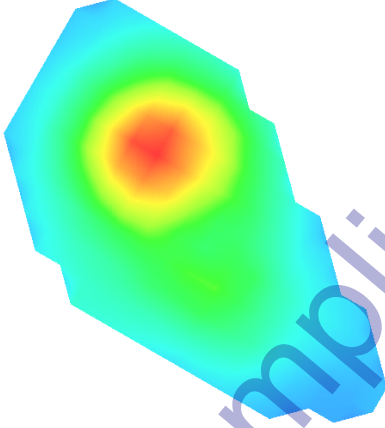


**Maximum location: X=-15.00, Y=10.00**

<b>SAR 10g (W/Kg)</b>	0.349146
<b>SAR 1g (W/Kg)</b>	0.657170

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.7114	0.4145	0.2440	0.1495



3D screen shot	Hot spot position
 A 3D rendered model of a human head in profile, facing left. A localized area on the side of the face is highlighted with a color gradient from blue to red, indicating a hot spot. The rest of the head model is a light grey color.	 A close-up view of the hot spot area. It shows a color gradient from blue on the outer edges to a bright red center, indicating the highest intensity of the hot spot. The shape is roughly oval and irregular.

Attestation of Global Compliance

Test Laboratory: AGC Lab

data time: 2012-02-25

PCS 1900 Mid-Tilt Right

**DUT: Mobile Phone; Type: HG-M306+**

Communication System: Generic GSM; Communication System Band: PCS 1900; Duty Cycle: 1:8; ConvF=6.42

Frequency: 1880 MHz; Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.41$  mho/m;  $\epsilon_r = 39.87$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;

Phantom section: Right Section

Ambient temperature (°C): 21.0, Liquid temperature (°C): 21.0

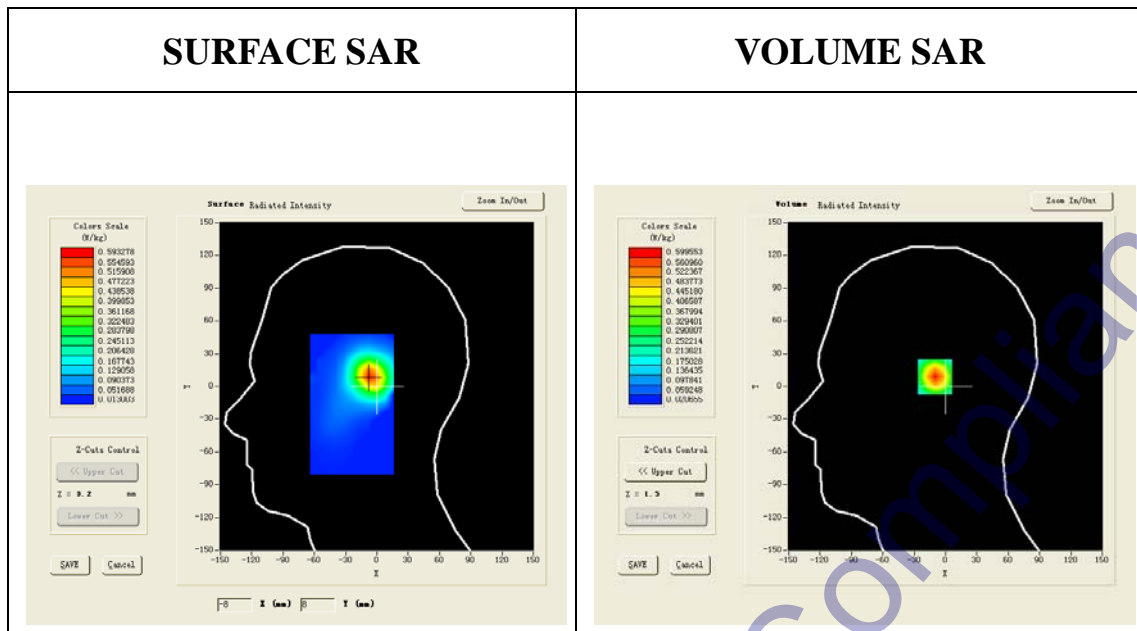
Satimo Configuration:

Probe:SSE5; Calibrated: 09/12/2011

- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM1; Type: SAM
- Measurement SW: OpenSAR V4\_02\_01

**Configuration/PCS1900 Mid Tilt-Right/Area Scan:** Measurement grid: dx=20mm, dy=20mm**Configuration/PCS1900 Mid Tilt-Right/Zoom Scan:** Measurement grid: dx=8mm, dy=8mm, dz=5mm;**SAR(1 g) = 0.553W/Kg; SAR(10 g) = 0.303W/Kg; Zoom SAR (1g)=0.560W/Kg**

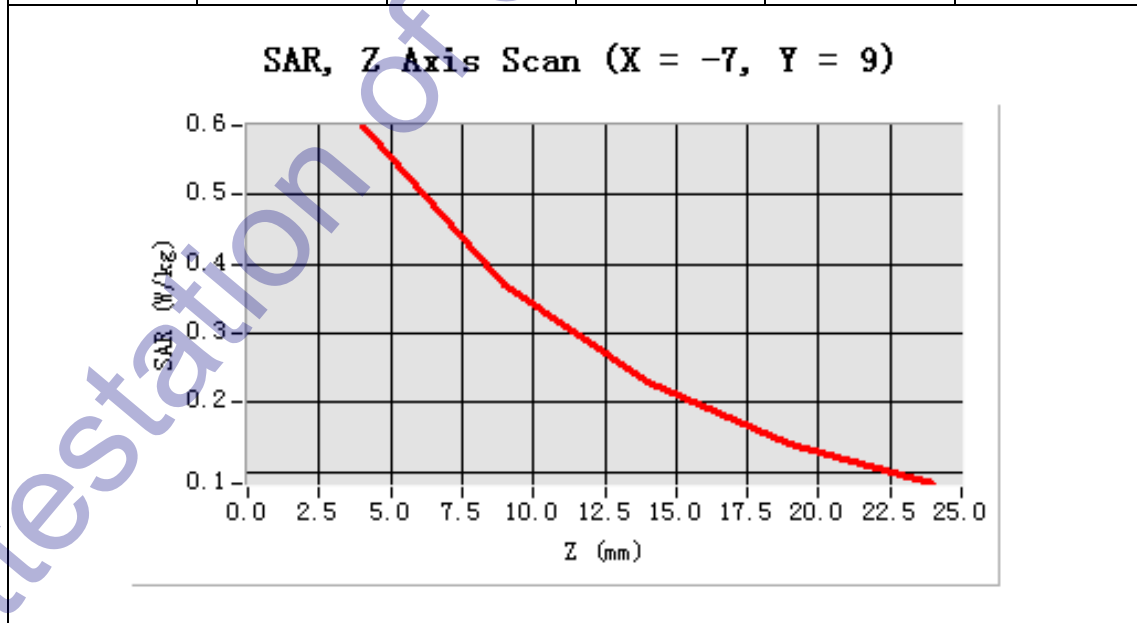
<b>Area Scan</b>	sam_direct_droit2_surf8mm.txt
<b>ZoomScan</b>	5x5x7,dx=8mm dy=8mm dz=5mm,Very fast
<b>Phantom</b>	Right head
<b>Device Position</b>	Tilt
<b>Band</b>	GSM1900
<b>Channels</b>	Middle
<b>Signal</b>	TDMA (Crest factor: 8.0)

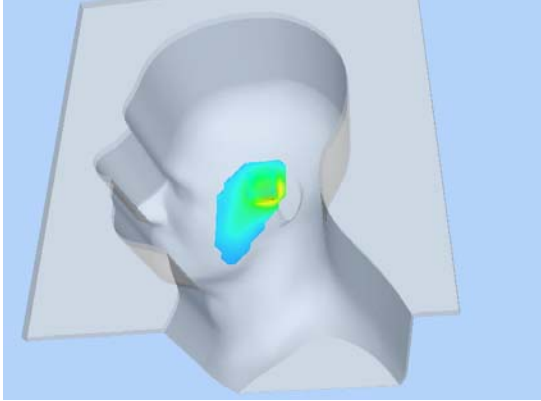
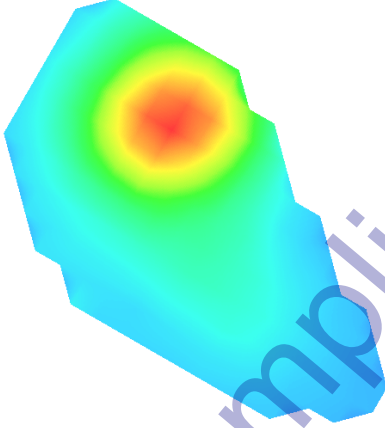


**Maximum location: X=-7.00, Y=9.00**

<b>SAR 10g (W/Kg)</b>	0.302903
<b>SAR 1g (W/Kg)</b>	0.552974

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.5996	0.3706	0.2278	0.1406



3D screen shot	Hot spot position
 A 3D model of a human head in profile, facing left. A color-coded hot spot is visible on the ear area, transitioning from blue to green to yellow to red.	 A close-up view of the hot spot, showing a red core surrounded by yellow, green, and blue, indicating a concentration of energy or heat.

Attestation of Global Compliance

Test Laboratory: AGC Lab

data time: 2012-02-25

PCS 1900 Mid-Body-worn

**DUT: Mobile Phone; Type: HG-M306+**

Communication System: Generic GSM; Communication System Band: PCS 1900; Duty Cycle: 1:8; ConvF=6.42

Frequency: 1880 MHz; Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.50$  mho/m;  $\epsilon_r = 52.66$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;

Phantom section: Flat Section

Ambient temperature (°C): 21.0, Liquid temperature (°C): 21.0

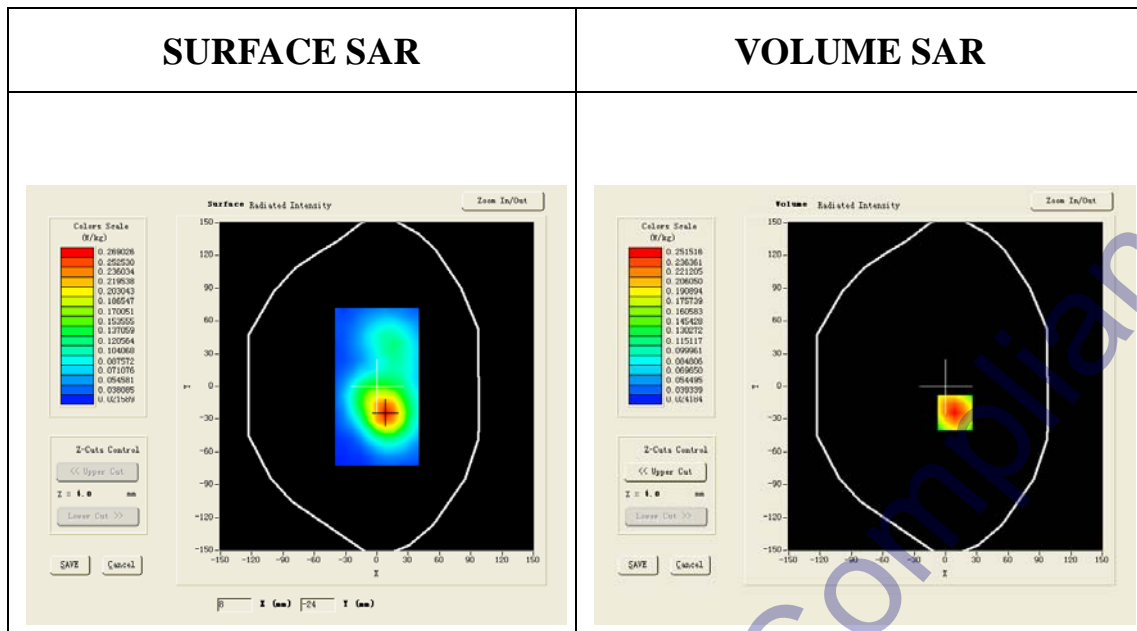
Satimo Configuration:

Probe:SSE5; Calibrated: 09/12/2011

- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM1; Type: SAM
- Measurement SW: OpenSAR V4\_02\_01

**Configuration/PCS1900 Mid Body-Back/Area Scan:** Measurement grid: dx=20mm, dy=20mm**Configuration/PCS1900 Mid Body-Back/Zoom Scan:** Measurement grid: dx=8mm, dy=8mm, dz=5mm;**SAR(1 g) = 0.238 W/Kg; SAR(10 g) = 0.149 W/Kg; Zoom SAR (1g)=0.252 W/Kg**

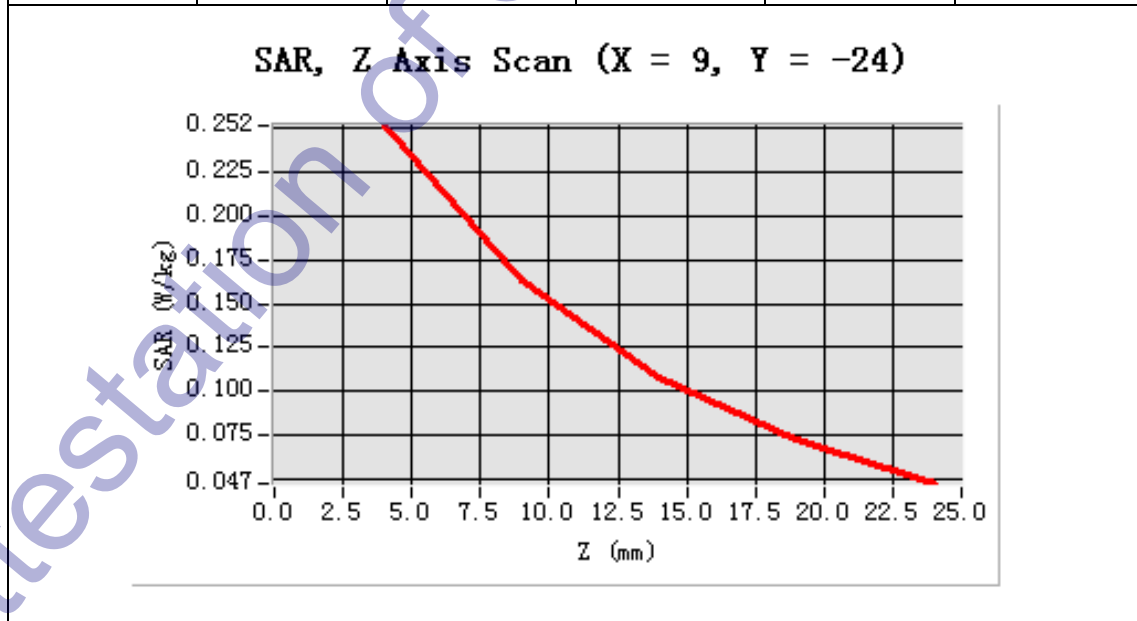
<b>Area Scan</b>	surf_sam_plan.txt
<b>ZoomScan</b>	5x5x7,dx=8mm dy=8mm dz=5mm,Very fast
<b>Phantom</b>	Validation plane
<b>Device Position</b>	Body
<b>Band</b>	GSM1900
<b>Channels</b>	Middle
<b>Signal</b>	TDMA (Crest factor: 8.0)



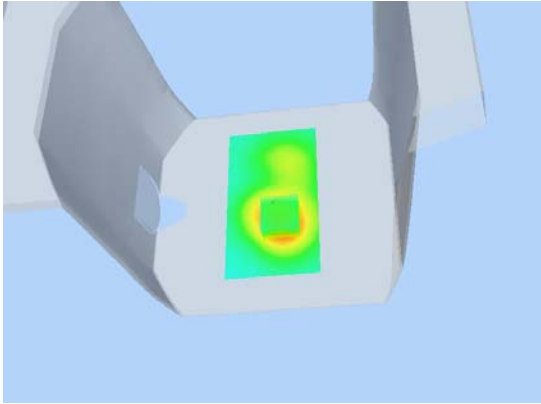
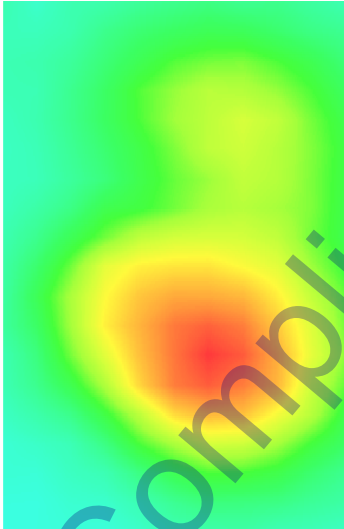
**Maximum location: X=9.00, Y=-24.00**

<b>SAR 10g (W/Kg)</b>	0.149071
<b>SAR 1g (W/Kg)</b>	0.238299

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.2515	0.1637	0.1075	0.0720





3D screen shot	Hot spot position
 A 3D perspective view of a grey, rectangular device. A small rectangular area on the front face of the device is highlighted with a color gradient from green to yellow to red, indicating a hot spot. The device is set against a light blue background.	 A 2D heatmap representing the hot spot position. The image shows a vertical rectangular area with a color gradient from green at the edges to a bright red/yellow center, indicating the location of the highest temperature or activity.

Attestation of Global Compliance

Test Laboratory: AGC Lab

data time: 2012-02-25

PCS 1900 Mid-Body- worn (2up)

**DUT: Mobile Phone; Type: HG-M306+**

Communication System: GPRS-2 Slot; Communication System Band: PCS1900;Duty Cycle: 1:4.2; convF=6.42

Frequency: 1880 MHz; Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.50$  mho/m;  $\epsilon_r = 52.66$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;

Phantom section: Flat Section

Ambient temperature (°C): 21.0, Liquid temperature (°C): 21.0

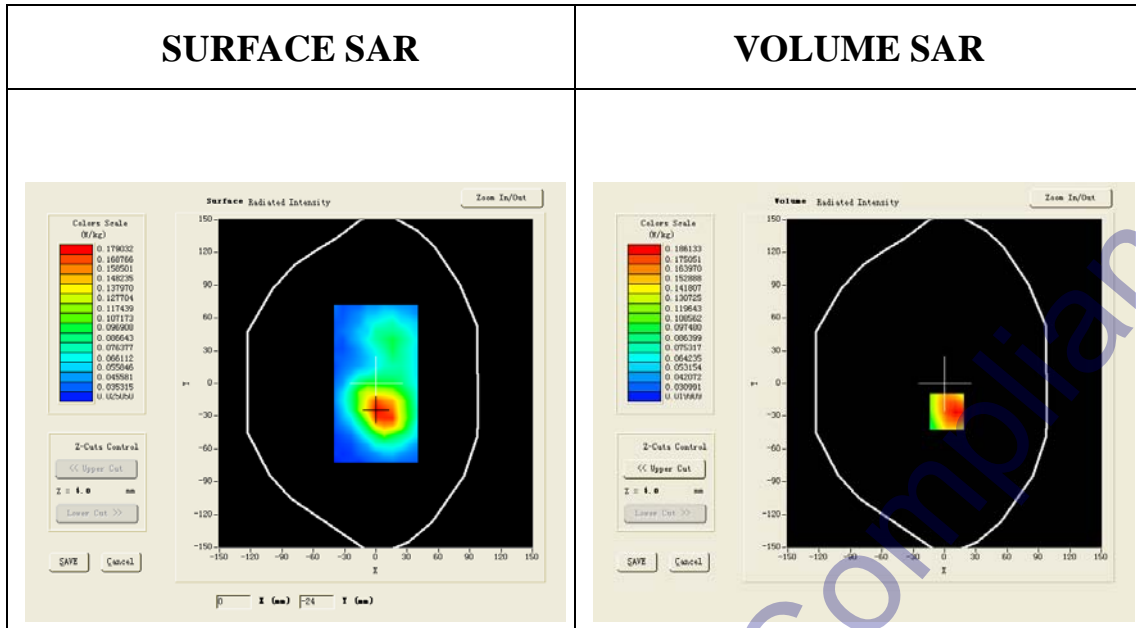
Satimo Configuration:

Probe:SSE5; Calibrated: 09/12/2011

- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM1; Type: SAM
- Measurement SW: OpenSAR V4\_02\_01

**Configuration/GPRS1900 Mid Body-Back/Area Scan:** Measurement grid: dx=20mm, dy=20mm**Configuration/GPRS1900 Mid Body-Back/Zoom Scan:** Measurement grid: dx=8mm, dy=8mm, dz=5mm;**SAR(1 g) = 0.178 W/Kg; SAR(10 g) = 0.119 W/Kg; Zoom SAR(1g)=0.176 W/Kg**

<b>Area Scan</b>	surf_sam_plan.txt
<b>ZoomScan</b>	5x5x7,dx=8mm dy=8mm dz=5mm,Very fast
<b>Phantom</b>	Validation plane
<b>Device Position</b>	Body
<b>Band</b>	GSM1900
<b>Channels</b>	Middle
<b>Signal</b>	TDMA (Crest factor: 4.0)



**Maximum location: X=2.00, Y=-26.00**

<b>SAR 10g (W/Kg)</b>	0.118573
<b>SAR 1g (W/Kg)</b>	0.178283

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.1758	0.1194	0.0827	0.0591

