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# SAR Test Report

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Report No.: AGC06P120901S1

**FCC ID** : UOSAM62  
**PRODUCT DESIGNATION** : Mobile Phone  
**BRAND NAME** : AMG00  
**MODEL NAME** : AM62  
**CLIENT** : Amgoo Telecom Co., Ltd.  
**DATE OF ISSUE** : Sep. 24.2012  
**STANDARD(S)** : FCC Oet65 Supplement C June 2001  
: IEEE Std. 1528-2003,47CFR § 2.1093  
**REPORT VERSION** : V1.0

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

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# Test Report Certification

Applicant Name	:	Amgoo Telecom Co., Ltd.
Applicant Address	:	6/F,Block 3,Tongjian Building,NO.2013,Middle Shennan Rd.,Futian District,Shenzhen,China
Manufacturer Name	:	Topology Communication Technology(Shenzhen)CO.,LTD
Manufacturer Address	:	KaiXinDa Technology Park,No.49 Zhou Shi Road, Shiyan County, Bao'an District,Shenzhen,China
Product Designation	:	mobile phone
Brand Name	:	AMGOO
Model Name	:	AM62
EUT Voltage	:	DC3.7V by battery
Applicable Standard	:	FCC Oet65 Supplement C June 2001 IEEE Std. 1528-2003,47CFR § 2.1093
Test Date	:	Sep.24,2012
Test Results	:	MAX SAR MEASUREMENT(1g) Head:0.647 W/Kg Body:0.766W/Kg (2G) Head: 0.526W/Kg Body:0.635 W/Kg(Scaling SAR=0.769 W/Kg)(3G)
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

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## TABLE OF CONTENTS

<b>1. GENERAL INFORMATION.....</b>	<b>3</b>
1.1. EUT DESCRIPTION.....	3
<b>GMSK FOR GSM/GPRS.....</b>	<b>3</b>
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 .....	8
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>22</b>
9.1. SAR TEST RESULTS SUMMARY.....	22
<b>APPENDIX B. SAR MEASUREMENT DATA .....</b>	<b>35</b>
<b>APPENDIX C. TEST SETUP PHOTOGRAPHS &amp;EUT PHOTOGRAPS .....</b>	<b>107</b>
<b>APPENDIX D. PROBE CALIBRATION DATA.....</b>	<b>118</b>
<b>APPENDIX E. DIPOLE CALIBRATION DATA.....</b>	<b>127</b>

## 1. General Information

### 1.1. EUT Description

<b>General Information</b>	
Product Designation	Mobile Phone
Test Model	AM62
Hardware Version	W700M06-B10 V0.6
Software Version	W700_B601_DCAM_FM_WF_V1.0_4G+2G_20120830
Device Category	Portable
RF Exposure Environment	Uncontrolled
Antenna Type	Internal
<b>GSM and GPRS</b>	
Support Band	<input checked="" type="checkbox"/> GSM 850 <input checked="" type="checkbox"/> PCS 1900 (U.S. Bands) <input checked="" type="checkbox"/> GSM 900 <input checked="" type="checkbox"/> DCS 1800 (Non-U.S. Bands)
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: 32.78dBm ( 32.87dBm Peak Power) PCS1900:29.52 dBm (29.59dBm Peak Power)
Max. Output Power (Radiated)	GSM850: 30.11 dBm- ERP PCS1900: 28.07dBm- EIRP
<b>WCDMA</b>	
Support Band	U.S. Bands: <input checked="" type="checkbox"/> UMTS FDD Band II <input checked="" type="checkbox"/> UMTS FDD Band V Non-U.S. Bands: <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	WCDMA FDD BAND II: 1852.4 -1907.6MHz WCDMA FDD BAND V: 826.4-846.6MHz
RX Frequency Range	WCDMA FDD BAND II: 1930-1990MHz WCDMA FDD BAND V: 869-894MHz
Release Version	Rel-6
Type of modulation	QPSK
Antenna Gain	1.0dBi for GSM850 and UMTS BAND V 1.0dBi for PCS1900 and UMTS BAND II
Max. Output Power (Avg. Burst Power)	Band II: 23.26dBm (23.32dBm Peak Power) Band V: 23.35dBm (23.37dBm Peak Power)
Max. Output Power (Radiated)	Band II: 20.91dBm- ERP Band V: 21.54dBm- EIRP
<b>Bluetooth</b>	
Bluetooth Version	<input type="checkbox"/> V2.0 <input checked="" type="checkbox"/> V2.1 <input type="checkbox"/> V2.1+EDR <input type="checkbox"/> V3.0 <input type="checkbox"/> V3.0+EDR
Operation Frequency	2402~2480MHz
Type of modulation	<input checked="" type="checkbox"/> GFSK <input type="checkbox"/> π/4-DQPSK <input type="checkbox"/> 8-DPSK
Max. Output Power (Peak Conducted)	3.15dBm
Antenna Gain	1.2dBi
<b>WIFI</b>	
WIFI Specifi-Mobile Phone	<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
Max. Output Power	11b:12.47dBm,11g:11.51dBm,11n(20):10.44dBm,11n(40):10.39dBm
Antenna Gain	Antenna (max): 0.8dBi
<b>Accessories</b>	
Battery	Brand name: AMGOO Model No. : AM-4LB Voltage and Capacitance: 3.7 V &1400mA
Adapter	Brand name: AMGOO Model No. : CH7 Input: AC 100-240V~500mA    Output: DC 5V
Earphone	Brand name: N/A Model No. : N/A

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 U.S. bands

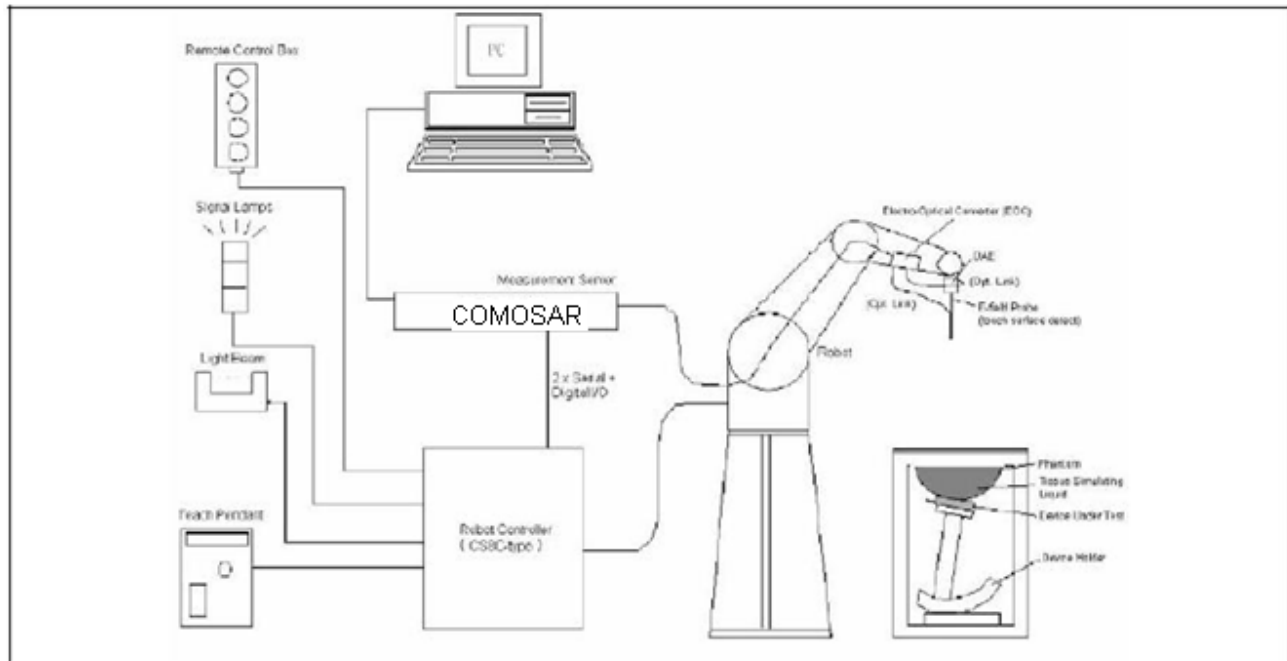
1.3. Test Environment

Ambient conditions in the laboratory:

Items	Required	Actual
Temperature (°C)	18-25	21± 2
Humidity (%RH)	30-70	55±2

## 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 Communicate Mobile Mobile Phone 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.

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

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

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



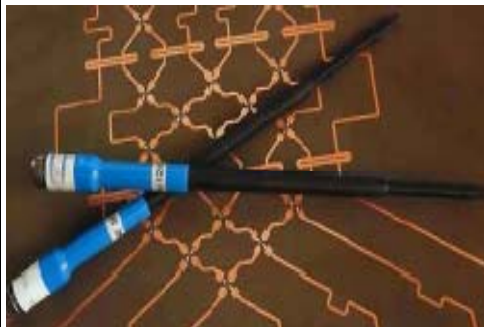
## 2.2. COMOSAR E-Field Probe

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

Model	SSE5	
Manufacture	Satimo	
frequency	0.3 GHz-6GHz Linearity:±0.2dB(300 MHz-6GHz)	
Dynamic Range	0.01W/Kg-100W/Kg Linearity:±0.2dB	
Dimensions	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	
Appli-Mobile Phone	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.

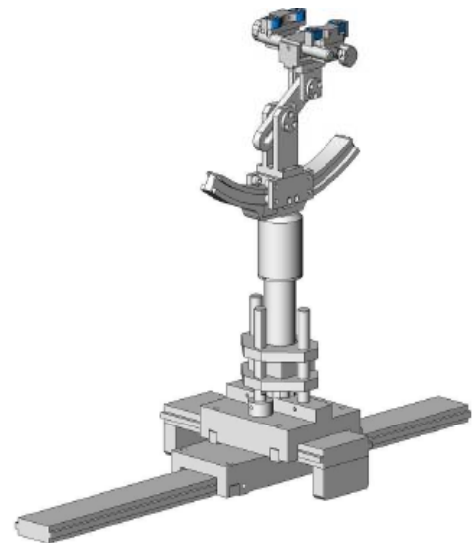


## 2.5. Device Holder

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.

### 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>	1.42	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	$\epsilon_r$ 41.51 39.43-43.58	$\delta$ [s/m] 0.90 0.86-0.95	N/A
	Sep. 24, 2012	41.73	0.92	21

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
	Sep. 24, 2012	55.13	1.01	21

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
	Sep.24,2012	41.21	1.42	21

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
	Sep.24,2012	53.36	1.51	21

### 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.

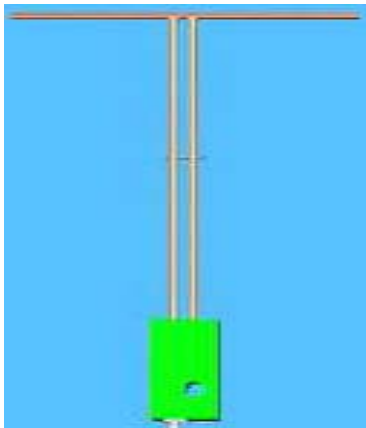
Target Frequency (MHz)	head		body	
	$\epsilon_r$	$\sigma$ (S/m)	$\epsilon_r$	$\sigma$ (S/m)
300	45.3	0.87	58.2	0.92
450	43.5	0.87	56.7	0.94
<b>835</b>	<b>41.5</b>	<b>0.90</b>	<b>55.2</b>	<b>0.97</b>
900	41.5	0.97	55.0	1.05
915	41.5	1.01	55.0	1.06
1450	40.5	1.20	54.0	1.30
1610	40.3	1.29	53.8	1.40
<b>1800 – 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



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

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

**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]
835 MHz	Reference result ± 10% window	10.9 9.81 to 11.99	6.99 6.29 to 7.69	N/A
	Sep. 24, 2012	10.34	6.92	21.0
<b>Validation Kit: SN 46/11DIP 1G1900-187</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
	Sep. 24, 2012	41.57	20.42	21.0
Note: All SAR values are normalized to 1W forward power.				

#### 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 location 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

## 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	03/30/2012	03/29/2013
Network Analyzer	Rhode & Schwarz ZVA	SN100132	02/07/2012	02/06/2013

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  $5\Omega$  of calibrated measurement.

## 7. Measurement Uncertainty

Satimo Uncertainty									
Measurement uncertainty for 300 MHz to 6 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	√3	$(1-C_p)^{1/2}$	$(1-C_p)^{1/2}$	1.22474	1.22474	∞
Hemispherical Isotropy	E.2.2	5	R	√3	$\sqrt{C_p}$	$\sqrt{C_p}$	2.04124	2.04124	∞
Boundary Effects	E.2.3	1	R	√3	1	1	0.57735	0.57735	∞
Linearity	E.2.4	5	R	√3	1	1	2.88675	2.88675	∞
System Detection Limits	E.2.5	1	R	√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	√3	1	1	0.11547	0.11547	∞
Integration Time	E.2.8	2	R	√3	1	1	1.1547	1.1547	∞
RF Ambient Noise	E.6.1	3	R	√3	1	1	1.73205	1.73205	∞
Probe Positioner Mechanical Tolerance	E.6.2	2	R	√3	1	1	1.1547	1.1547	∞
Probe Positioning with Respect to Phantom Shell	E.6.3	1	R	√3	1	1	0.57735	0.57735	∞
Extrapolation, interpolation and Integration Algorithms for Max. SAR Evaluation	E.5.2	1.5	R	√3	1	1	0.86603	0.86603	∞
<b>Dipole</b>									
Device Positioning	8,E.4.2	1	N	√3	1	1	0.57735	0.57735	N-1
Power Drift	8.6.6.2	2	R	√3	1	1	1.1547	1.1547	∞
<b>Phantom and Tissue Parameters</b>									
Phantom Uncertainty	E.3.1	4	R	√3	1	1	2.3094	2.3094	∞
Liquid Conductivity (target)	E.3.2	5	R	√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	√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				16.18544	15.8592	

## 8. Conducted Power Measurement

Mode	Frequency(MHz)	Peak Power	Avg. Burst Power(dBm)	Duty cycle Factor(dBm)	Frame Power(dBm)
Maximum Power					
GSM850	824.2	<b>32.87</b>	<b>32.78</b>	-9	23.78
	836.6	32.57	32.44	-9	23.44
	848.8	32.45	32.41	-9	23.41
GPRS850 (1 Slot)	824.2	32.25	32.19	-9	23.19
	836.6	32.45	32.38	-9	23.38
	848.8	32.61	32.47	-9	23.47
GPRS850 (2 Slot)	824.2	29.14	29.01	-6	23.01
	836.6	29.28	29.21	-6	23.21
	848.8	29.57	29.46	-6	23.46
GPRS850 (3 Slot)	824.2	27.39	26.91	-4.26	22.66
	836.6	27.38	27.32	-4.26	23.07
	848.8	27.74	27.65	-4.26	23.40
GPRS850 (4 Slot)	824.2	26.14	25.94	-3	22.94
	836.6	26.35	26.04	-3	23.04
	848.8	26.59	26.51	-3	23.51
PCS1900	1850.2	<b>29.59</b>	<b>29.52</b>	-9	20.52
	1880	29.42	29.39	-9	20.39
	1909.8	29.34	29.31	-9	20.31
GPRS1900 (1 Slot)	1850.2	29.31	29.28	-9	20.28
	1880	29.43	29.38	-9	20.38
	1909.8	29.57	29.49	-9	20.49
GPRS1900 (2 Slot)	1850.2	26.36	26.32	-6	20.32
	1880	26.39	26.34	-6	20.34
	1909.8	26.51	26.46	-6	20.46
GPRS850 (3 Slot)	1850.2	24.71	24.65	-4.26	20.40
	1880	24.81	24.73	-4.26	20.48
	1909.8	24.96	24.91	-4.26	20.66
GPRS850 (4 Slot)	1850.2	23.41	23.35	-3	20.35
	1880	23.56	23.53	-3	20.53
	1909.8	23.72	23.68	-3	20.68

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) -4.26dB

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

**UMTS BAND II**

Mode	Frequency (MHz)	Peak Power	Avg. Burst Power
WCDMA 1900 RMC(12.2bps)	1852.4	23.02	22.97
	1880	23.14	23.11
	1907.6	<b>23.32</b>	<b>23.26</b>
HSPA Subtest 1	1852.4	22.41	22.36
	1880	22.61	22.57
	1907.6	22.71	22.67
HSPA Subtest 2	1852.4	22.36	22.31
	1880	22.41	22.36
	1907.6	22.54	22.51
HSPA Subtest 3	1852.4	22.35	22.31
	1880	22.49	22.42
	1907.6	22.56	22.51
HSPA Subtest 4	1852.4	22.41	22.35
	1880	22.53	22.50
	1907.6	22.65	22.59

**UMTS BAND V**

Mode	Frequency (MHz)	Peak Power	Avg. Burst Power
WCDMA 850 RMC	826.4	23.11	23.05
	835.0	23.26	23.25
	846.6	<b>23.37</b>	<b>23.35</b>
HSPA Subtest 1	826.4	22.54	22.51
	835.0	22.56	22.53
	846.6	22.71	22.68
HSPA Subtest 2	826.4	22.76	22.73
	835.0	22.81	22.75
	846.6	22.87	22.82
HSPA Subtest 3	826.4	22.68	22.63
	835.0	22.75	22.71
	846.6	22.83	22.79
HSPA Subtest 4	826.4	22.62	22.54
	835.0	22.64	22.59
	846.6	22.68	22.61

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	$0 \leq CM \leq 3.5$	$MAX(CM-1,0)$
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.

## **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 multi-slot class 12 device capable of 4 uplink timeslots. During the head SAR test, the device was transmitting with maximum 1 uplink timeslot; during the body SAR test, it was transmitting with maximum 4 uplink timeslots. Additionally, this device doesn't support dual transfer mode (DTM).

#### **9.1.4. Co-located**

According to KDB 447498 and KDB 648474, due to the Max peak power for Bluetooth is 3.15dBm less than Pref and the Max peak power for Wi-Fi is less than 13.8dBm, the Maximum SAR for GSM part < 1.2W/Kg, thus, regardless the closest separation distance between the GSM antenna and Bluetooth Antenna( The distance between the GSM antenna and Bluetooth Antenna is less than 5cm;The Bluetooth and the Wi-Fi share with the same antenna ), stand-alone SAR and simultaneous transmission SAR is not required.

Other reference document: KDB 941225.

SAR MEASUREMENT									
Ambient Temperature (°C) : 21 ± 2						Relative Humidity (%): 55			
Liquid Temperature (°C) : 21 ± 2						Depth of Liquid (cm):>15			
Product: Mobile Phone									
Test Mode: GSM850 with GMSK modulation									
Configuration			Antenna Position	Frequency		Avg. Burst Power (dBm)	Power Drift (<±0.2 dB)	SAR (1g) (W/kg)	Limit (W/kg)
SIM	Position	Status		channel	MHz				
<1>	Left Head	Cheek	Fixed	128	824.2	32.78	--	--	1.6
				190	836.6	32.44	-0.02	<b>0.524</b>	1.6
				251	848.8	32.41	--	--	1.6
		Tilted	Fixed	128	824.2	32.78	--	--	1.6
				190	836.6	32.44	-0.02	0.367	1.6
				251	848.8	32.41	--	--	1.6
	Right Head	Cheek	Fixed	128	824.2	32.78	--	--	1.6
				190	836.6	32.44	-0.10	0.418	1.6
				251	848.8	32.41	--	--	1.6
		Tilted	Fixed	128	824.2	32.78	--	--	1.6
				190	836.6	32.44	-0.03	0.384	1.6
				251	848.8	32.41	--	--	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.



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

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

Ambient Temperature (°C) :  $21 \pm 2$

Relative Humidity (%): 55

Liquid Temperature (°C) :  $21 \pm 2$

Depth of Liquid (cm):>15

Product: Mobile Phone

Test Mode: GSM1900 with GMSK modulation

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

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

Ambient Temperature (°C) :  $21 \pm 2$

Relative Humidity (%): 55

Liquid Temperature (°C) :  $21 \pm 2$

Depth of Liquid (cm):>15

Product: Mobile Phone

Test Mode: WCDMA band II with QPSK modulation

Configuration			Antenna Position	Frequency		Avg. Burst Power (dBm)	Power Drift (<±0.2 dB)	SAR (1g) (W/kg)	Limit (W/kg)
SIM	Position	Status		channel	MHz				
<2>	Left Head	Cheek	Fixed	9262	1852.4	22.97	--	--	1.6
				9400	1880	23.11	-0.05	0.383	1.6
				9538	1907.6	23.26	--	--	1.6
		Tilted	Fixed	9262	1852.4	22.97	--	--	1.6
				9400	1880	23.11	-0.03	0.326	1.6
				9538	1907.6	23.26	--	--	1.6
	Right Head	Cheek	Fixed	9262	1852.4	22.97	--	--	1.6
				9400	1880	23.11	0.10	<b>0.479</b>	1.6
				9538	1907.6	23.26	--	--	1.6
		Tilted	Fixed	9262	1852.4	22.97	--	--	1.6
				9400	1880	23.11	-0.01	0.123	1.6
				9538	1907.6	23.26	--	--	1.6

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

Ambient Temperature (°C) :  $21 \pm 2$

Relative Humidity (%): 55

Liquid Temperature (°C) :  $21 \pm 2$

Depth of Liquid (cm):>15

Product: Mobile Phone

Test Mode: WCDMA band II with QPSK modulation

Configuration			Antenna Position	Frequency		Avg. Burst Power (dBm)	Power Drift ( $\pm 0.2$ dB)	SAR (1g) (W/kg)	Limit (W/kg)
SIM	Position	Status		channel	MHz				
<2>	Body	RMC (towards grounds)	Fixed	9262	1852.4	22.97	--	--	1.6
				9400	1880	23.11	-0.03	<b>0.635</b>	1.6
				9538	1907.6	23.26	--	--	1.6
		RMC (towards phantom)	Fixed	9262	1852.4	22.97	--	--	1.6
				9400	1880	23.11	-0.01	0.453	1.6
				9538	1907.6	23.26	--	--	1.6
		HSPA (towards grounds)	Fixed	9262	1852.4	22.36	--	--	1.6
				9400	1880	22.57	-0.04	0.420	1.6
				9538	1907.6	22.67	--	--	1.6
		RMC Earphone (towards grounds)	Fixed	9262	1852.4	22.97	--	--	1.6
				9400	1880	23.11	-0.02	0.433	1.6
				9538	1907.6	23.26	--	--	1.6

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

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

Ambient Temperature (°C) :  $21 \pm 2$

Relative Humidity (%): 55

Liquid Temperature (°C) :  $21 \pm 2$

Depth of Liquid (cm):>15

Product: Mobile Phone

Test Mode: WCDMA band V with QPSK modulation

Configuration			Antenna Position	Frequency		Avg. Burst Power (dBm)	Power Drift ( $\pm 0.2$ dB)	SAR (1g) (W/kg)	Limit (W/kg)
SIM	Position	Status		channel	MHz				
<2>	Body	RMC (towards grounds)	Fixed	4132	826.4	23.05	--	--	1.6
				4182	835.0	23.25	-0.05	0.246	1.6
				4233	846.6	23.35	--	--	1.6
		RMC (towards phantom)	Fixed	4132	826.4	23.05	--	--	1.6
				4182	835.0	23.25	-0.09	0.157	1.6
				4233	846.6	23.35	--	--	1.6
		HSPA (towards grounds)	Fixed	4132	826.4	22.51	--	--	1.6
				4182	835.0	22.53	-0.06	0.214	1.6
				4233	846.6	22.68	--	--	1.6
		HSPA Earphone (towards grounds)	Fixed	4132	826.4	23.05	--	--	1.6
				4182	835.0	23.25	-0.08	<b>0.263</b>	1.6
				4233	846.6	23.35	--	--	1.6

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

**Appendix A. SAR System Validation Data****Date: Sep.24,2012**

Test Laboratory: AGC Lab

**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; Conv.F=6.79

Frequency: 850 MHz; Medium parameters used:  $f = 850$  MHz;  $\sigma = 0.92$  mho/m;  $\epsilon_r = 41.73$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;

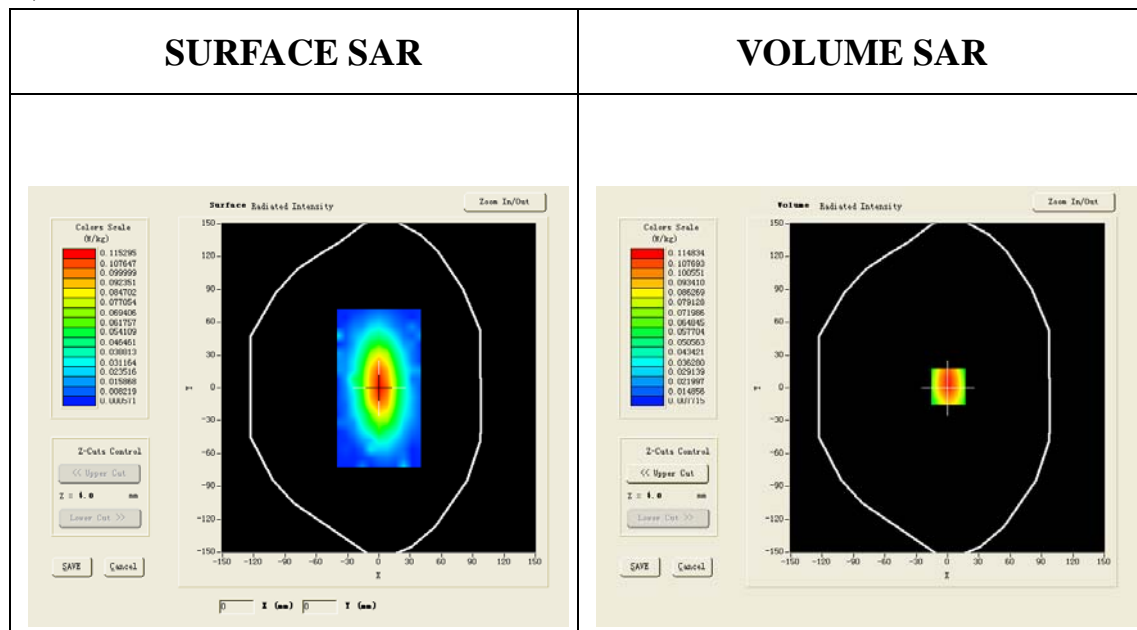
Phantom section: Flat Section ; Input Power=10dBm

Ambient temperature (°C): 21, Liquid temperature (°C): 21

Satimo Configuration:

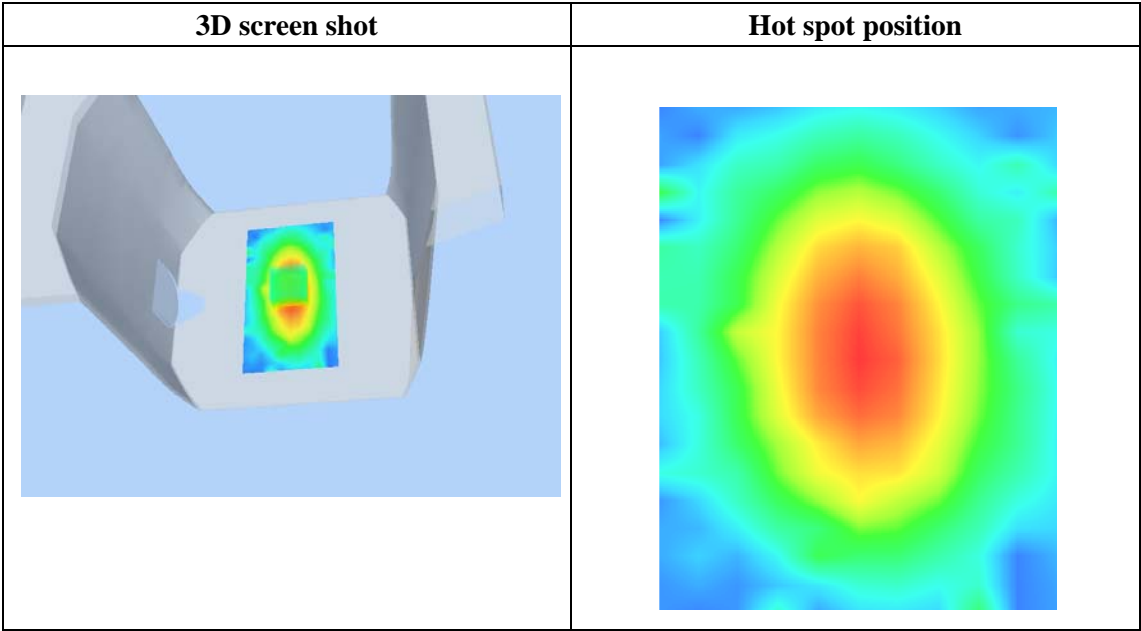
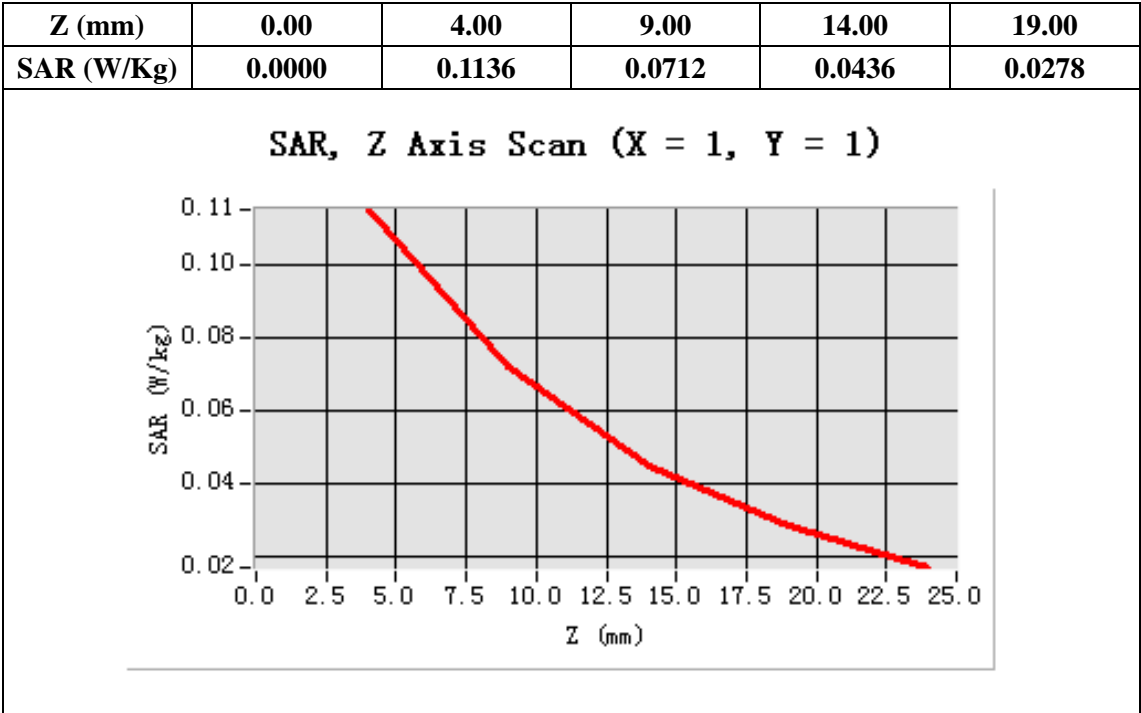
Probe:SSE5; Calibrated: 12/09/2011

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

<b>SAR 10g (W/Kg)</b>	0.069167
<b>SAR 1g (W/Kg)</b>	0.103429





Test Laboratory: AGC Lab

Date: Sep.24,2012

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=6.42Frequency: 1900 MHz; Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.42$  mho/m;  $\epsilon_r = 41.21$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;

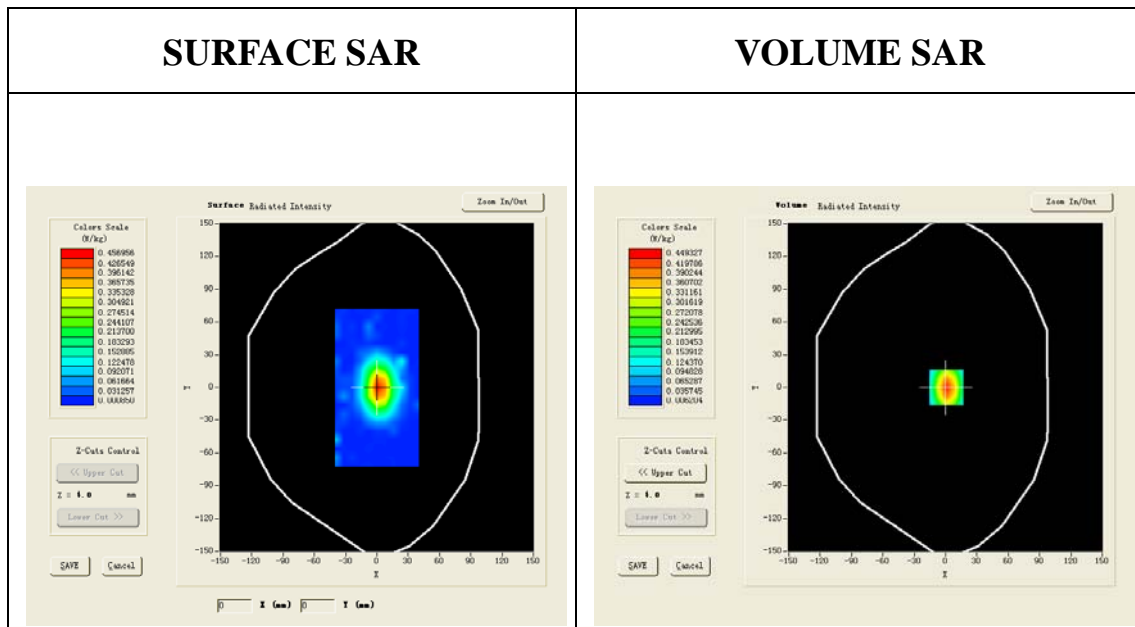
Phantom section: Flat Section ; Input Power=10dBm

Ambient temperature (°C): 21, Liquid temperature (°C): 21

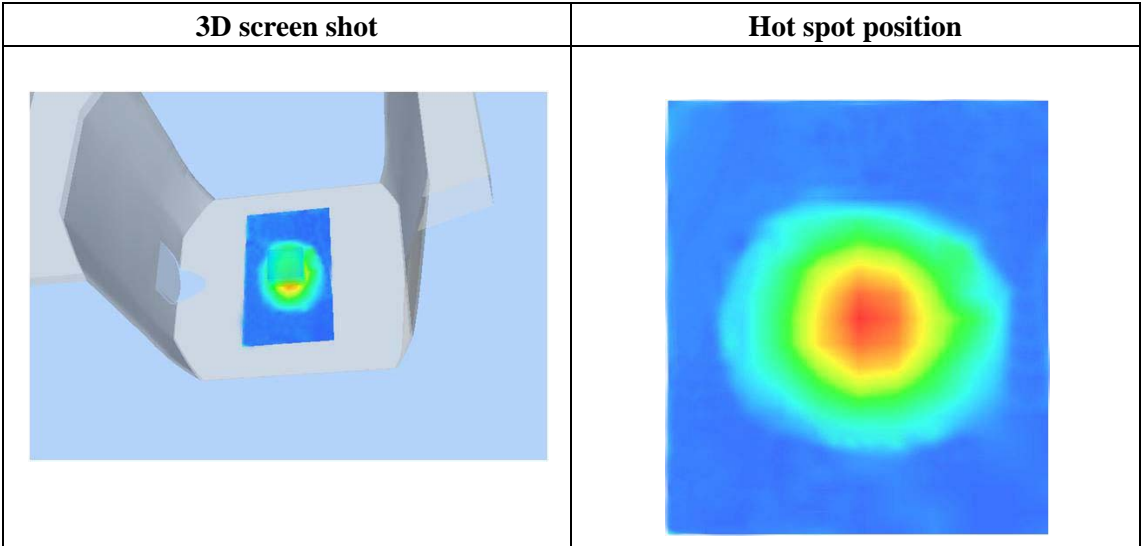
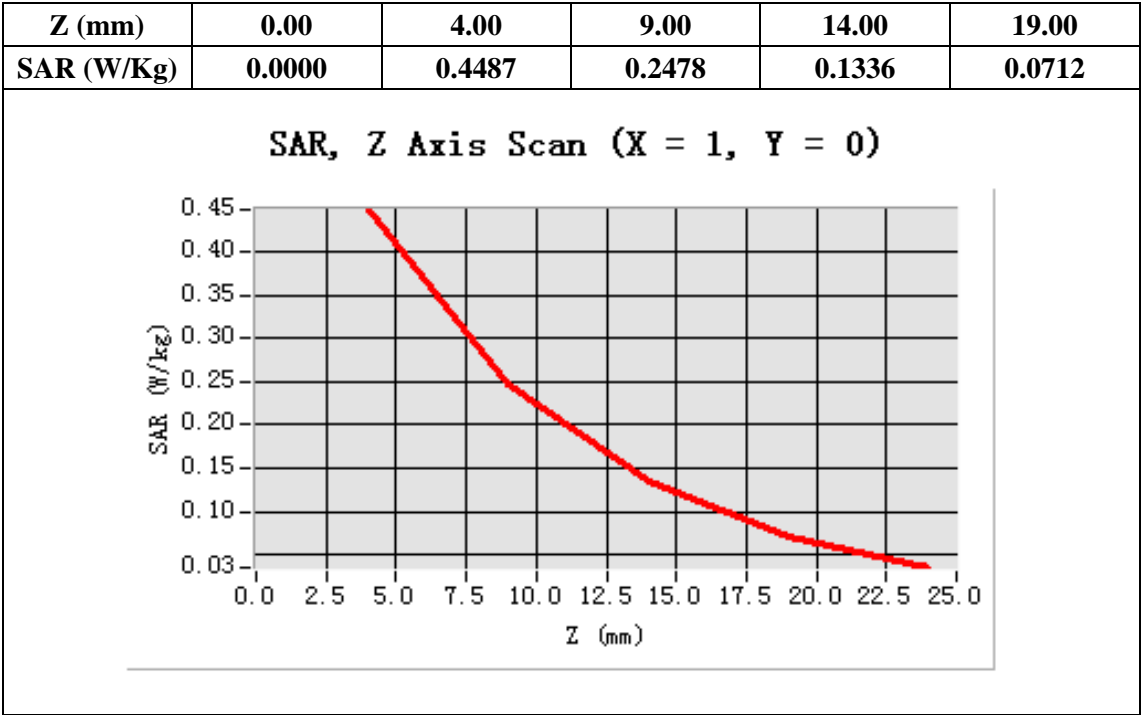
Satimo Configuration:

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

<b>SAR 10g (W/Kg)</b>	0.204236
<b>SAR 1g (W/Kg)</b>	0.415698



Appendix B. SAR measurement Data

Test Laboratory: AGC Lab

Date: Sep.24,2012

GSM 850 Middle-touch-Left

DUT: Mobile Phone ; Type: AM62

Communication System: Generic GSM; Communication System Band: GSM 850; Duty Cycle: 1:8.3;  
Conv.F=6.79 Frequency: 836.6 MHz; Medium parameters used:  $f = 835$  MHz;  $\sigma = 0.92$  mho/m;  $\epsilon_r = 41.73$ ;  
 $\rho = 1000$  kg/m<sup>3</sup> ;

Phantom section: Left Section

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

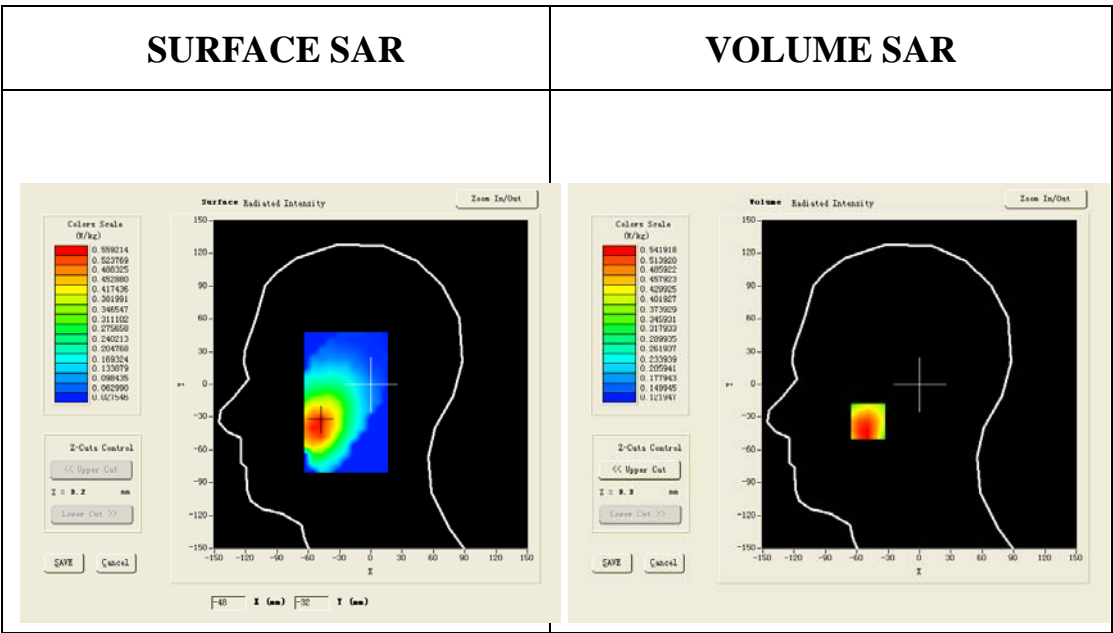
Satimo Configuration:

Probe:SSE5; Calibrated: 12/09/2011

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

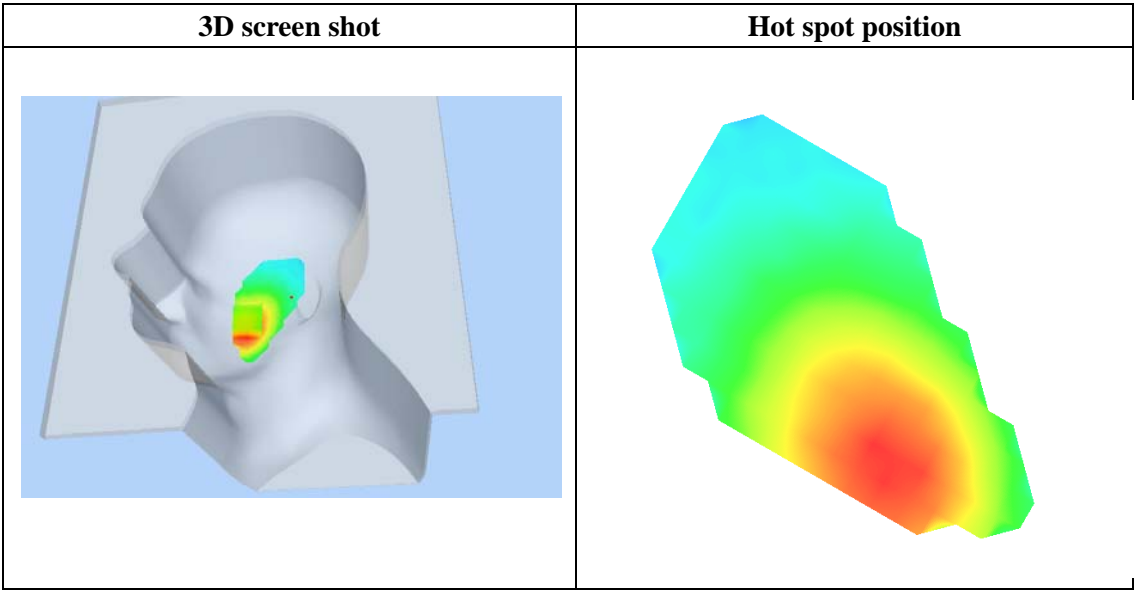
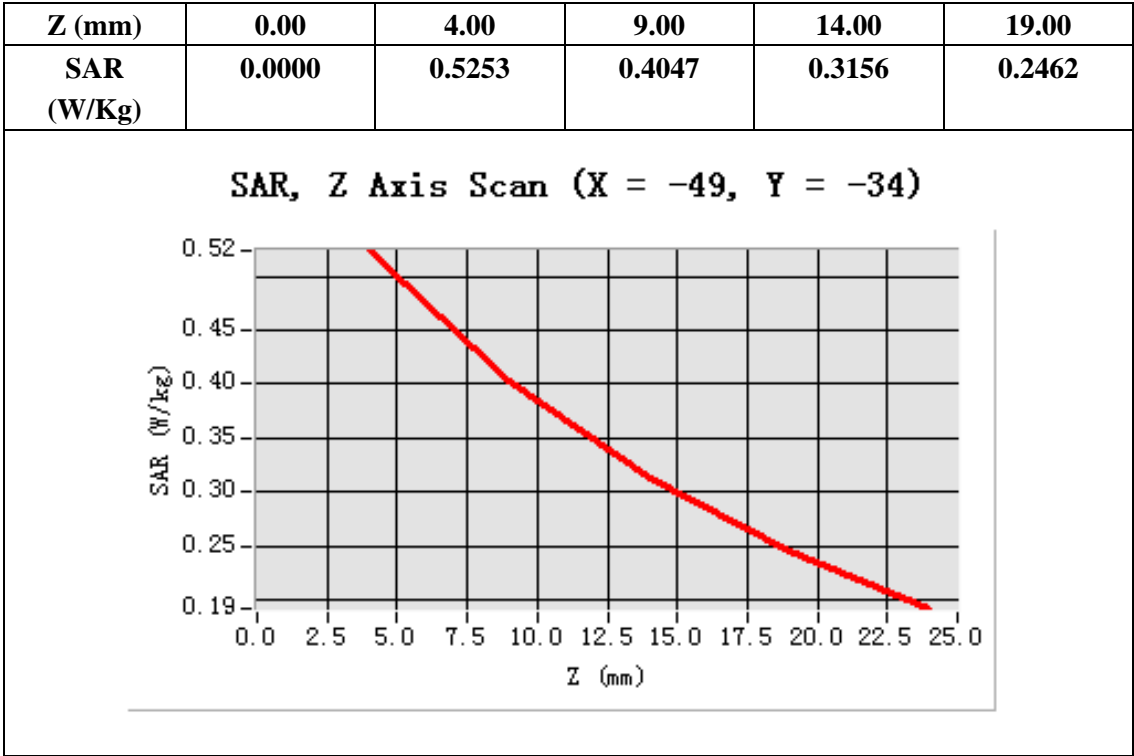
Configuration/GSM850 Mid Touch-Left/Area Scan (6x8x1): Measurement grid: dx=20mm, dy=20mm  
Configuration/GSM850 Mid Touch-Left/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

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



Maximum location: X=-49.00, Y=-34.00

SAR 10g (W/Kg)	0.385278
SAR 1g (W/Kg)	0.524167



**Test Laboratory: AGC Lab****Date: Sep.24,2012****GSM 850 Mid Tilt-left****DUT: Mobile Phone ; Type: AM62**

Communication System: Generic GSM; Communication System Band: GSM 850; Duty

Cycle: 1:8.3; Conv.F=6.79;Frequency: 836.6 MHz; Medium parameters used:  $f = 835$  MHz;  $\sigma = 0.92$  mho/m;  $\epsilon_r = 41.73$  ;  $\rho = 1000$  kg/m<sup>3</sup> ;

Phantom section: Left Section

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

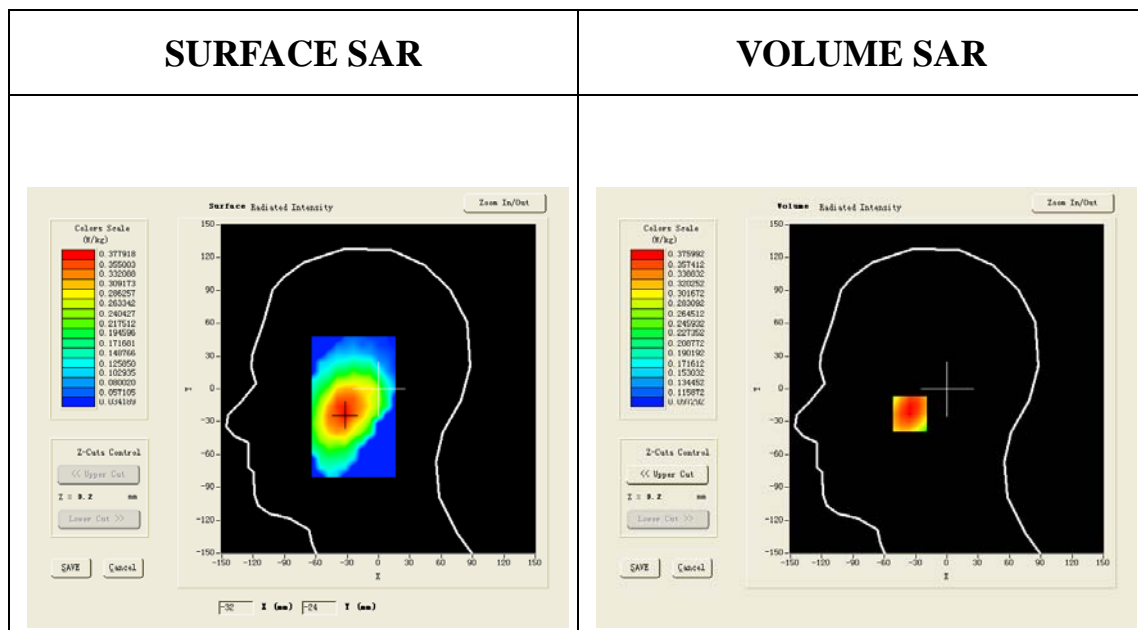
Satimo Configuration:

Probe:SSE5; Calibrated: 12/09/2011

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

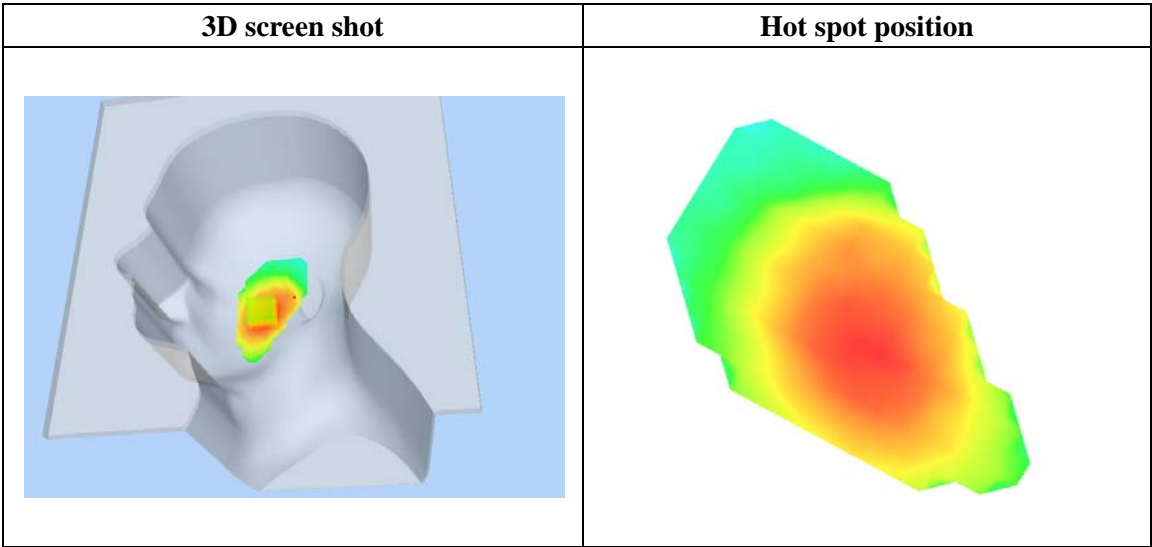
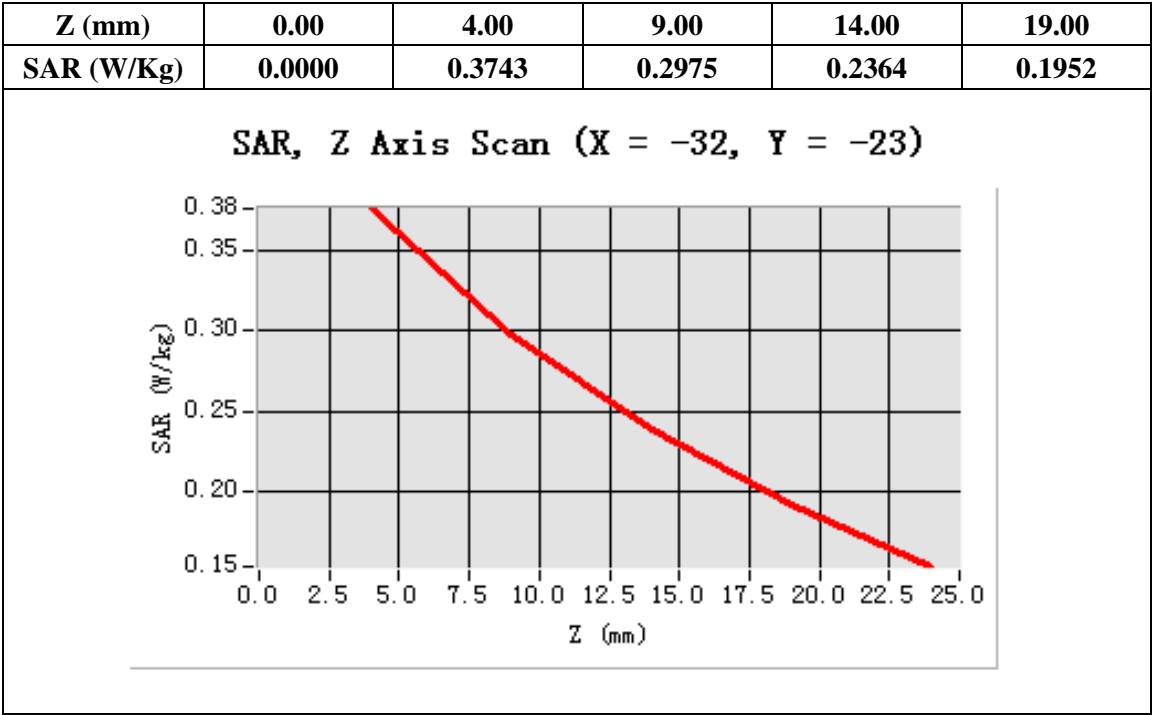
**Configuration/GSM850 Mid Tilt-Left/Area Scan (6x8x1): Measurement grid: dx=20mm, dy=20mm****Configuration/GSM850 Mid Tilt-Left/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm,dz=5mm;**

<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=-32.00, Y=-23.00

SAR 10g (W/Kg)	0.277147
SAR 1g (W/Kg)	0.366749



**Test Laboratory: AGC Lab****Date: Sep.24,2012****GSM 850 Middle touch-Right****DUT: Mobile Phone ; Type: AM62**

Communication System: Generic GSM; Communication System Band: GSM 850; Duty Cycle: 1:8.3;

Conv.F=6.79;Frequency: 836.6 MHz; Medium parameters used:  $f = 835$  MHz;  $\sigma = 0.92$  mho/m; $\epsilon_r = 41.73$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;

Phantom section: Right Section

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

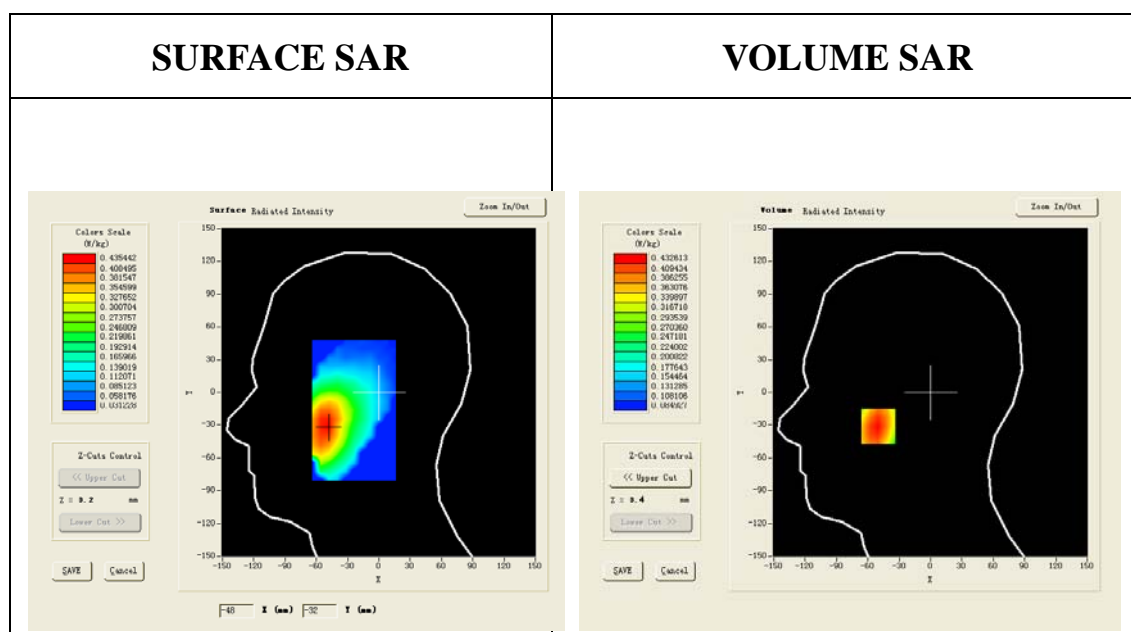
Satimo Configuration:

Probe:SSE5; Calibrated: 12/09/2011

- 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;**

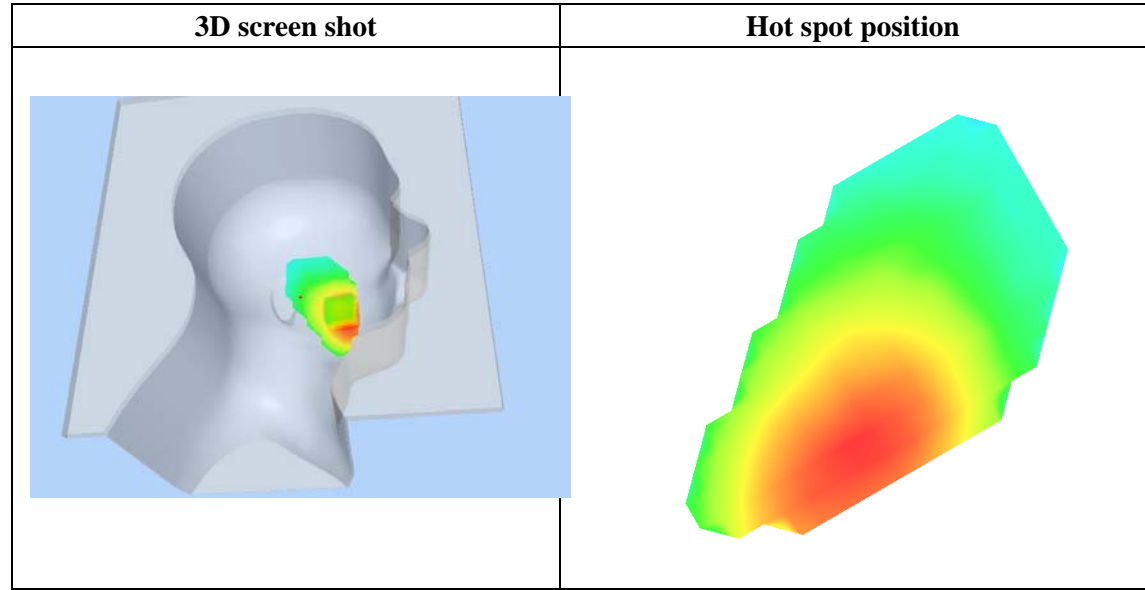
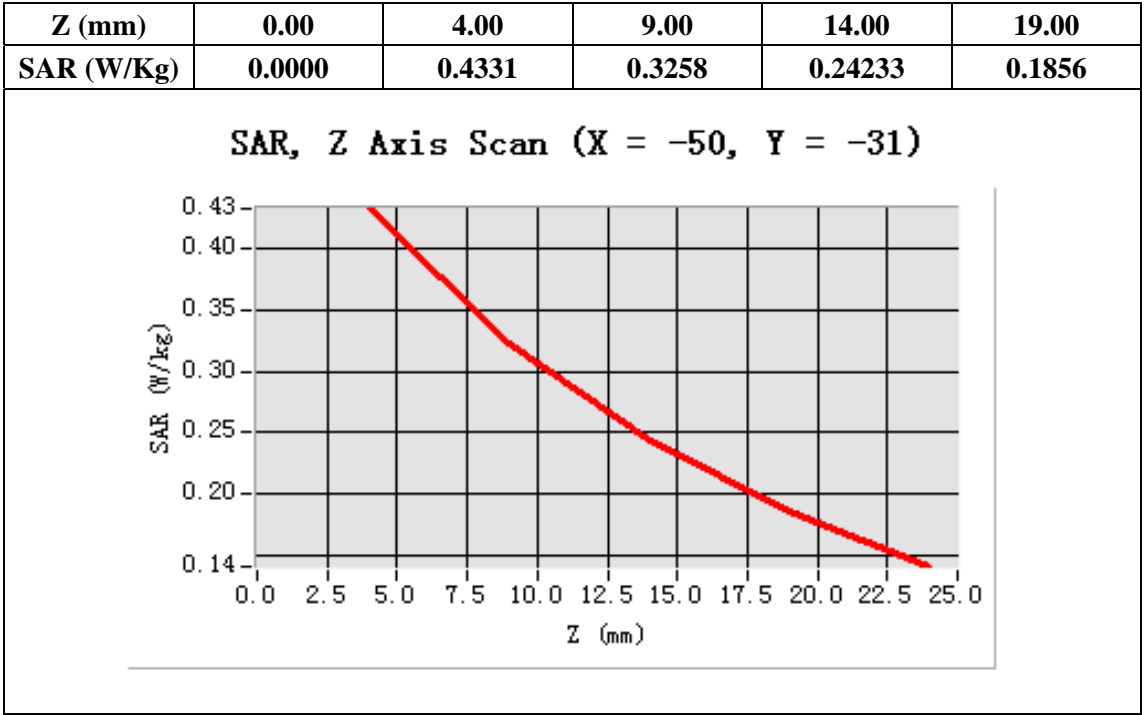
<b>Area Scan</b>	sam_direct_droit2_surf8mm.txt
<b>ZoomScan</b>	5x5x7,dx=8mm dy=8mm dz=5mm,Very fast
<b>Phantom</b>	Right head
<b>Device Position</b>	Cheek
<b>Band</b>	GSM850
<b>Channels</b>	Middle
<b>Signal</b>	TDMA (Crest factor: 8.0)





Maximum location: X=-50.00, Y=-31.00

SAR 10g (W/Kg)	0.298267
SAR 1g (W/Kg)	0.417533



**Test Laboratory: AGC Lab****Date: Sep.24,2012****GSM 850 Mid-tilt-Right****DUT: Mobile Phone ; Type: AM62**

Communication System: Generic GSM; Communication System Band: GSM 850; Duty Cycle: 1:8.3;

Conv.F=6.79;Frequency: 836.6 MHz; Medium parameters used:  $f = 835$  MHz;  $\sigma = 0.92$  mho/m;  $\epsilon_r = 41.73$  ; $\rho = 1000$  kg/m<sup>3</sup> ;

Phantom section: Right Section

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

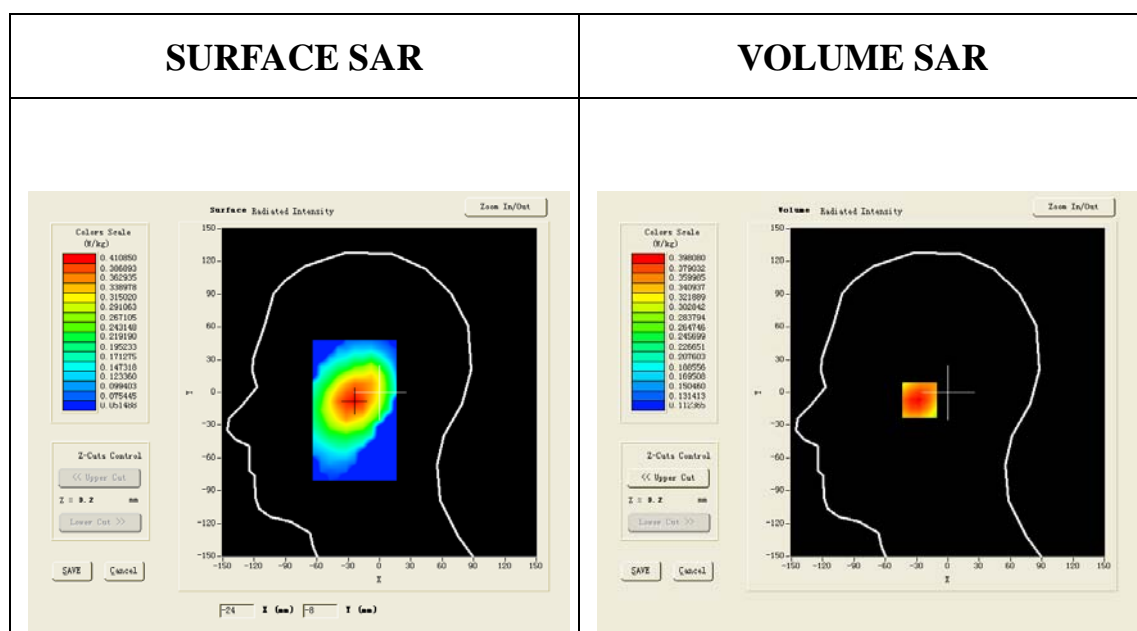
Satimo Configuration:

Probe:SSE5; Calibrated: 12/09/2011

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

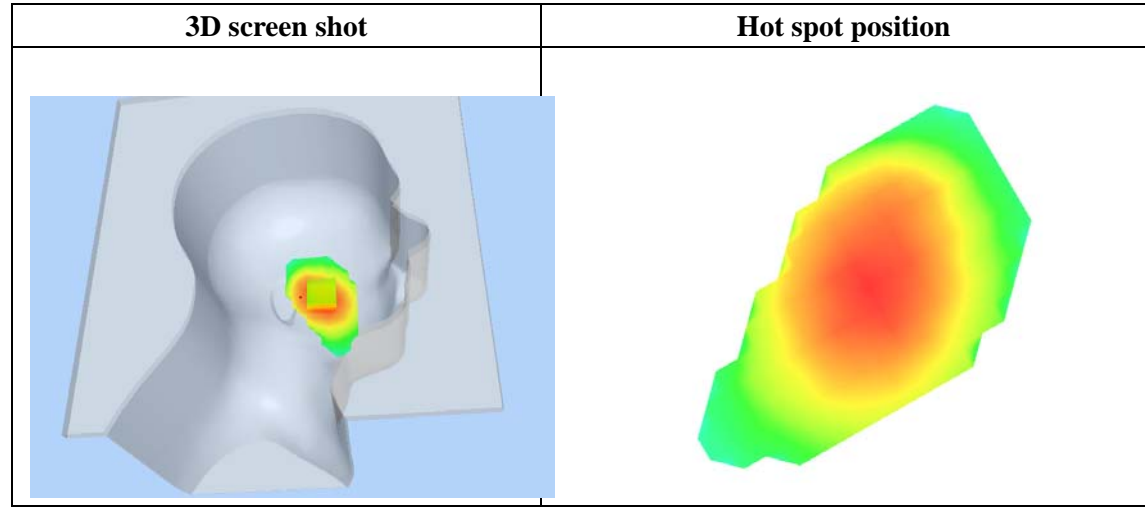
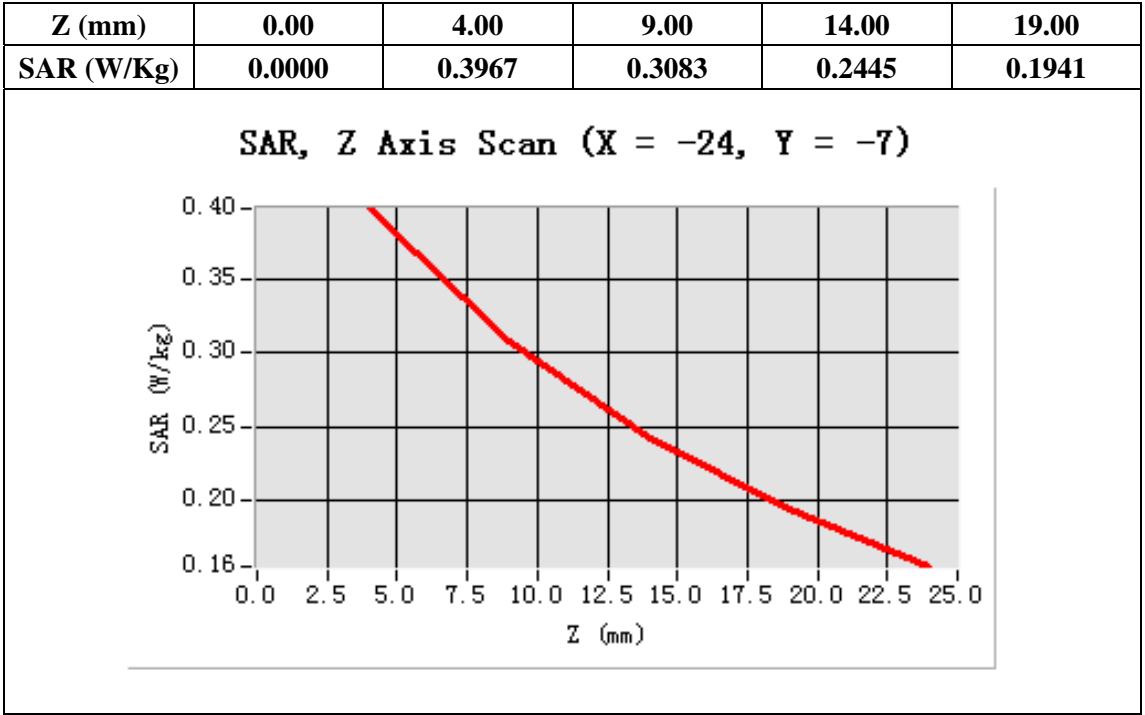
**Configuration/GSM850 Mid Tilt-Right/Area Scan: Measurement grid: dx=20mm, dy=20mm****Configuration/GSM850 Mid Tilt-Right/Zoom Scan: Measurement grid: dx=8mm, dy=8mm, dz=5mm;**

<b>Area Scan</b>	sam_direct_droit2_surf8mm.txt
<b>Zoom Scan</b>	5x5x7,dx=8mm dy=8mm dz=5mm,Very fast
<b>Phantom</b>	Right 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=-24.00, Y=-7.00

SAR 10g (W/Kg)	0.287064
SAR 1g (W/Kg)	0.384453



**Test Laboratory: AGC Lab****Date: Sep.24,2012****GSM 850 Mid- Body-Back****DUT: Mobile Phone; Type: AM62**

Communication System: Generic GSM; Communication System Band: GSM 850; Duty Cycle: 1:8.3;

Conv.F=6.79;Frequency: 836.6 MHz; Medium parameters used:  $f = 835$  MHz;  $\sigma = 1.01$  mho/m;  $\epsilon_r = 55.13$ ; $\rho = 1000$  kg/m<sup>3</sup> ;

Phantom section: Flat Section

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

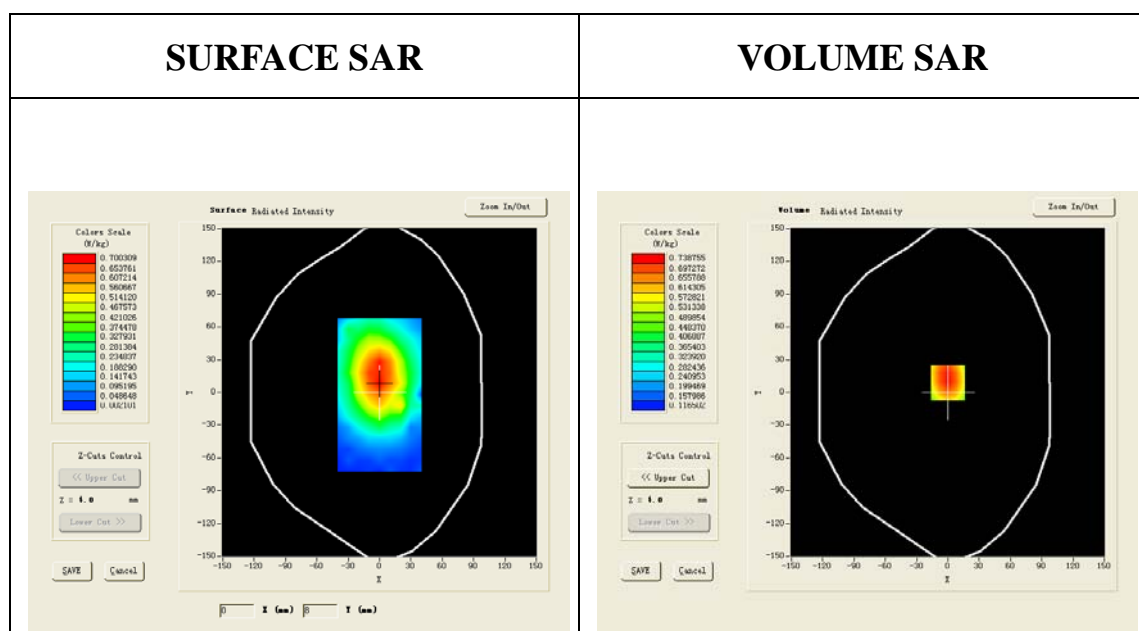
Satimo Configuration:

Probe:SSE5; Calibrated: 12/09/2011

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

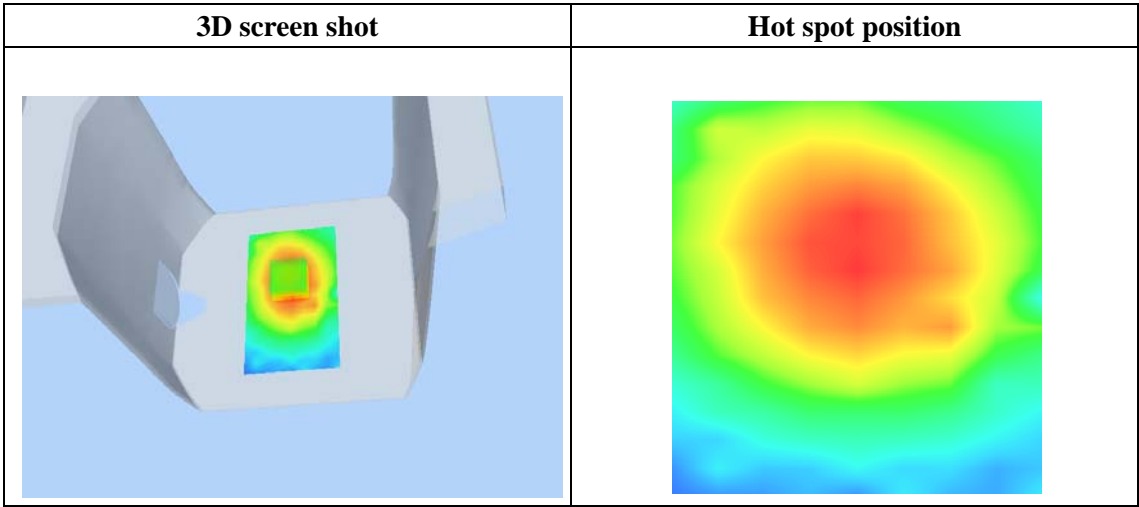
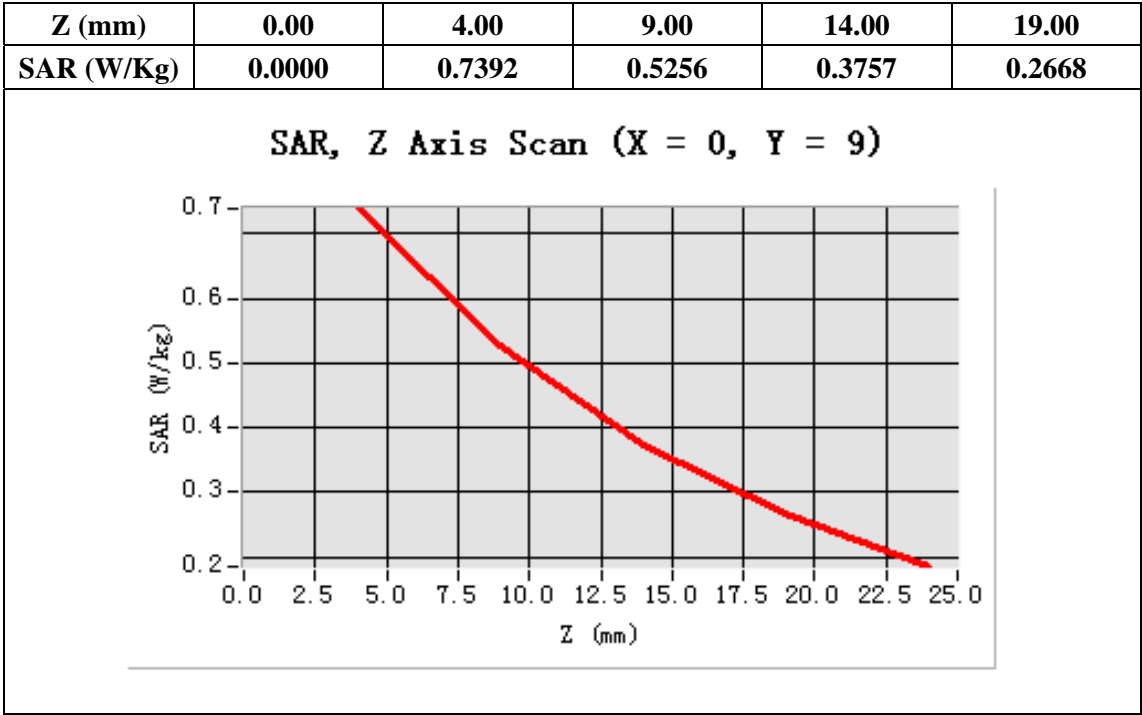
**Configuration/GSM850 Mid Body-Back/Area Scan (6x8x1): Measurement grid: dx=20mm, dy=20mm****Configuration/GSM850 Mid Body-Back/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm;**

<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=0.00, Y=9.00

SAR 10g (W/Kg)	0.518345
SAR 1g (W/Kg)	0.766177



Test Laboratory: AGC Lab  
GSM 850 Mid- body- Back (2up)  
DUT: Mobile Phone; Type: AM62

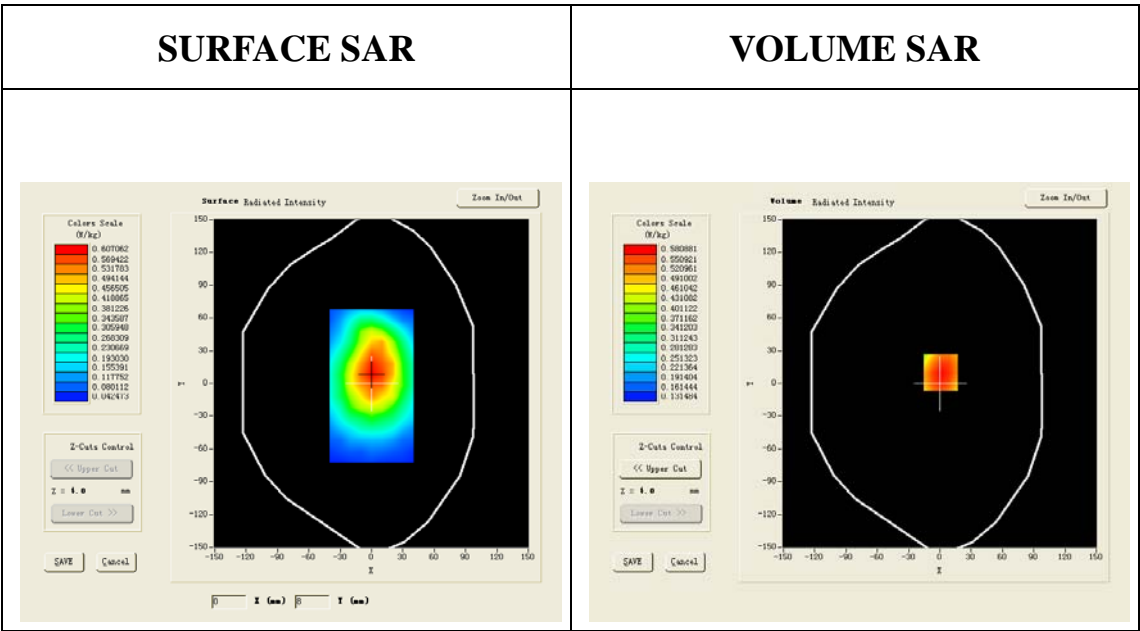
Date: Sep.24,2012

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;  $\sigma = 1.01$  mho/m;  $\epsilon_r = 55.13$ ;  
 $\rho = 1000\text{kg/m}^3$  ;  
Phantom section: Flat Section  
Ambient temperature ( $^{\circ}\text{C}$ ): 21.0, Liquid temperature ( $^{\circ}\text{C}$ ): 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

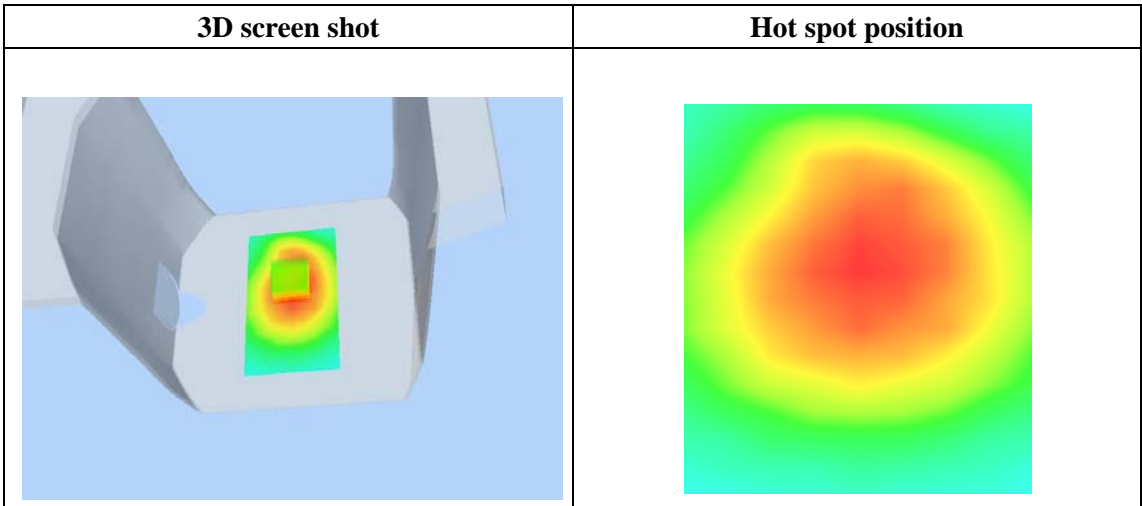
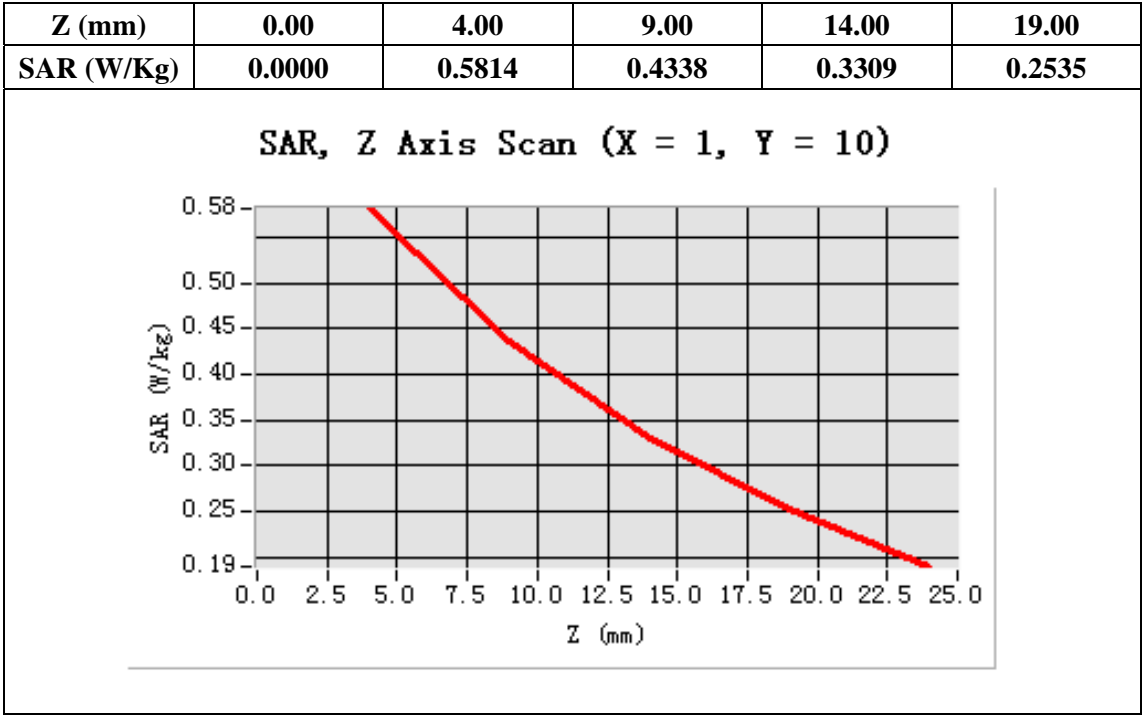
Configuration/GPRS850 Mid Body-Back/Area Scan (6x8x1): Measurement grid: dx=20mm, dy=20mm  
Configuration/GPRS850 Mid Body-Back/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm;

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



Maximum location: X=1.00, Y=10.00

SAR 10g (W/Kg)	0.442352
SAR 1g (W/Kg)	0.606472



**Test Laboratory: AGC Lab****Date: Sep.24,2012****GPRS 850 Mid-Body-back (3up)****DUT: Mobile Phone; Type: AM62**

Communication System: GPRS -3 Slot; Communication System Band: GSM 850; Duty Cycle: 1:2.8 ;  
 Conv.F=6.79;Frequency: 836.6 MHz; Medium parameters used:  $f = 835$  MHz;  $\sigma = 1.01$  mho/m;  $\epsilon_r = 55.13$ ;  
 $\rho = 1000\text{kg/m}^3$  ;

Phantom section: Flat Section

Ambient temperature ( $^{\circ}\text{C}$ ): 21.0, Liquid temperature ( $^{\circ}\text{C}$ ): 21.0

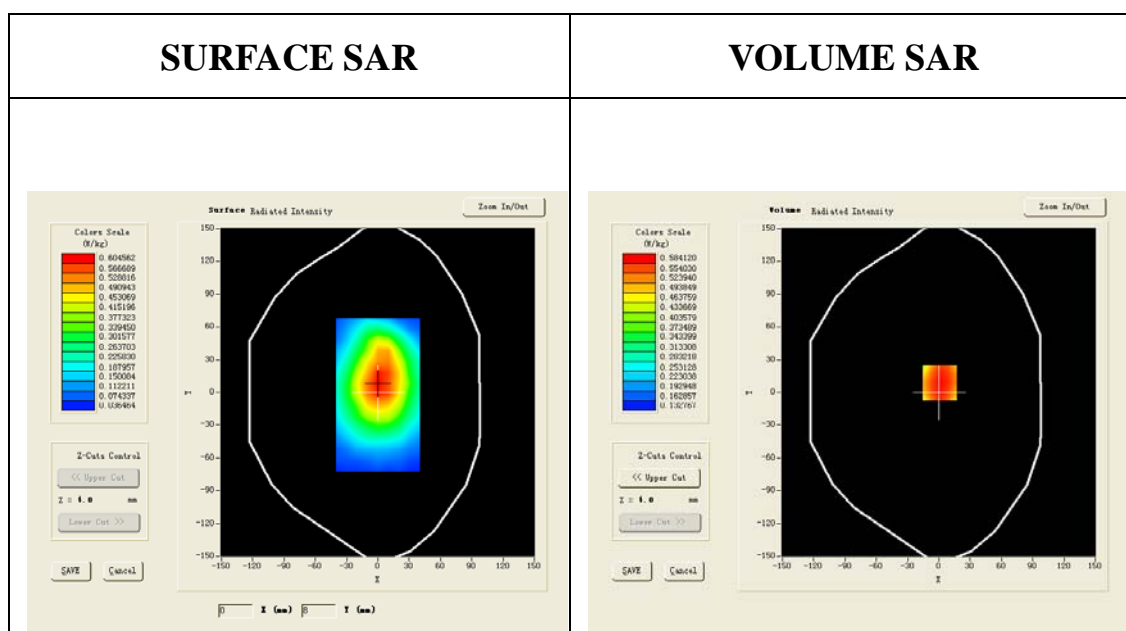
Satimo Configuration:

Probe:SSE5; Calibrated: 12/09/2011

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

**Configuration/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;**

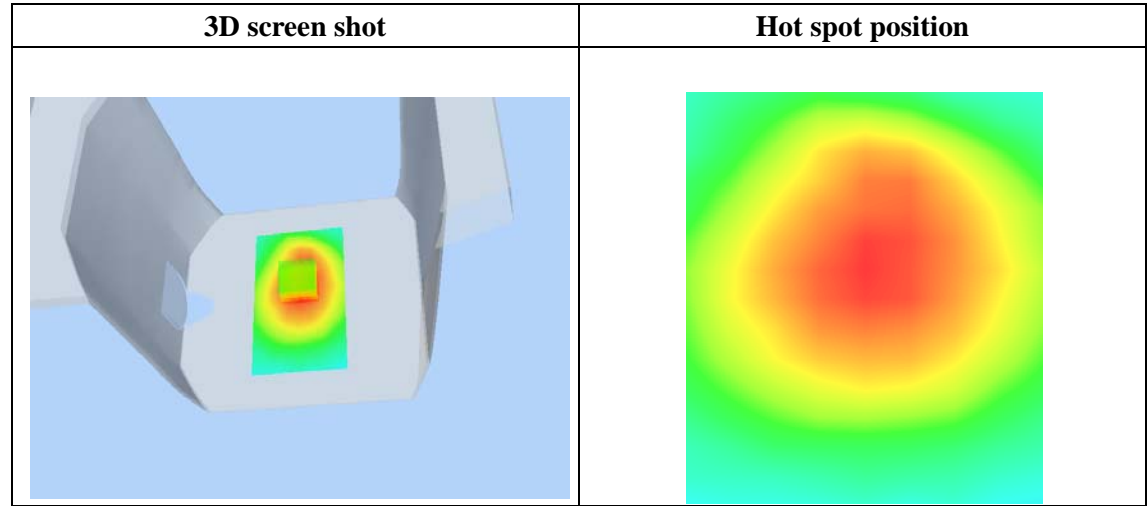
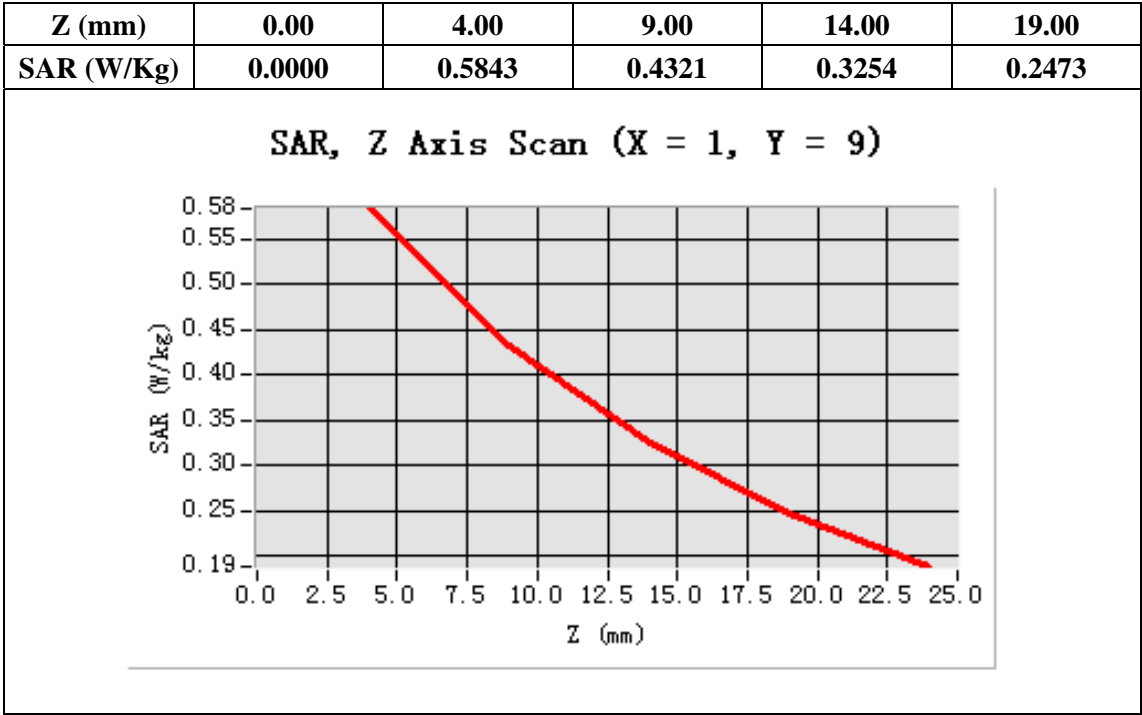
<b>Area Scan</b>	surf_sam_plan.txt
<b>ZoomScan</b>	5x5x7,dx=8mm dy=8mm dz=5mm,Very fast
<b>Phantom</b>	Validation plane
<b>Device Position</b>	Body
<b>Band</b>	GSM850
<b>Channels</b>	Middle
<b>Signal</b>	TDMA (Crest factor:2.7)





Maximum location: X=1.00, Y=9.00

SAR 10g (W/Kg)	0.443005
SAR 1g (W/Kg)	0.609357



Test Laboratory: AGC Lab

Date: Sep.24,2012

GPRS 850 Mid-body-Back (4up)

DUT: Mobile Phone; Type: AM62

Communication System: GPRS -4 Slot; Communication System Band: GSM 850; Duty Cycle: 1:2.1 ;  
Conv.F=6.79;Frequency: 836.6 MHz; Medium parameters used: f = 835 MHz;  $\sigma$  = 1.01 mho/m;  $\epsilon_r$  = 55.13;  
 $\rho$  = 1000kg/m<sup>3</sup> ;  
Phantom section: Flat Section  
Ambient temperature (°C): 21.0, Liquid temperature (°C): 21.0

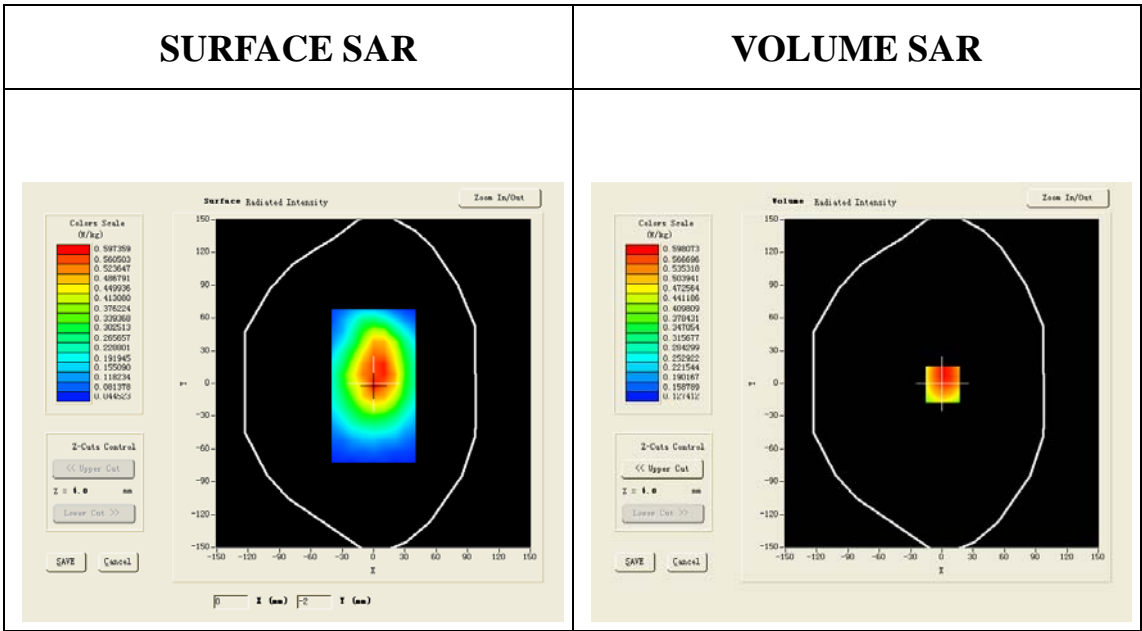
Satimo Configuration:

Probe:SSE5; Calibrated: 12/09/2011

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

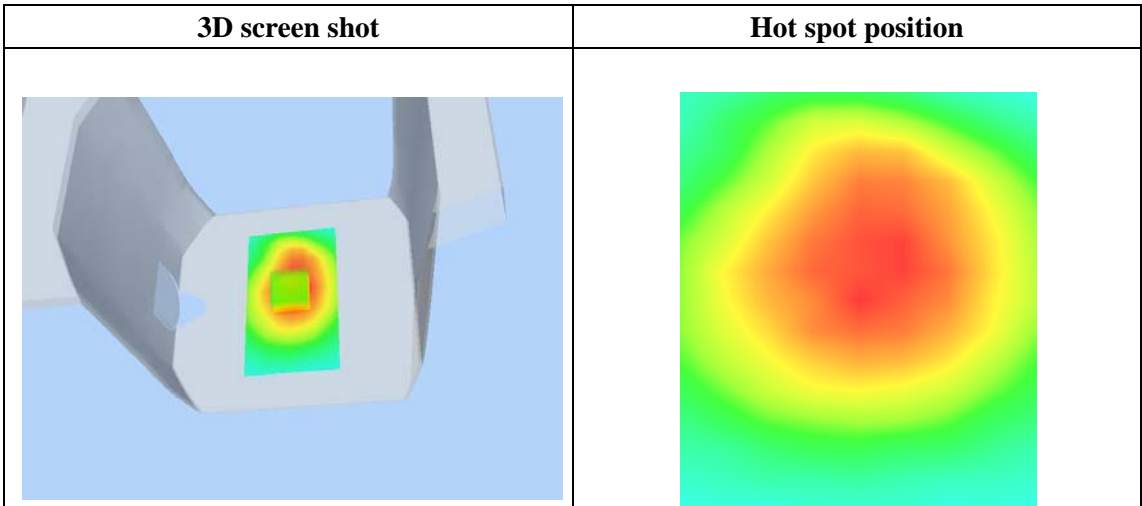
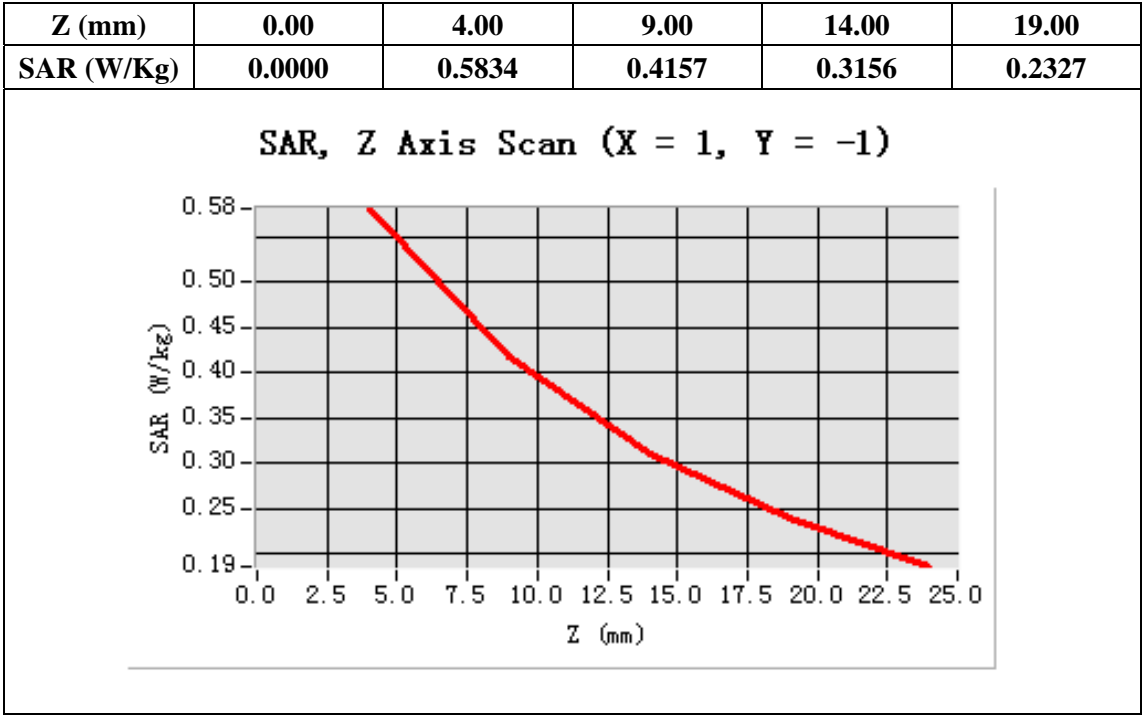
Configuration/GPRS850 Mid Body-Back/Area Scan: Measurement grid: dx=20mm, dy=20mm  
Configuration/GPRS850 Mid Body-Back/Zoom Scan: Measurement grid: dx=8mm, dy=8mm, dz=5mm;

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



Maximum location: X=1.00, Y=-1.00

SAR 10g (W/Kg)	0.446757
SAR 1g (W/Kg)	0.623251



**Test Laboratory: AGC Lab****Date: Sep.24,2012****GSM 850 Mid- Body- Front ( MS)****DUT: Mobile Phone; Type: AM62**

Communication System: Generic GSM; Communication System Band: GSM 850; Duty Cycle: 1:8.3;

Conv.F=6.79;Frequency: 836.6 MHz; Medium parameters used:  $f = 835$  MHz;  $\sigma = 1.01$  mho/m;  $\epsilon_r = 55.13$ ; $\rho = 1000$  kg/m<sup>3</sup> ;

Phantom section: Flat Section

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

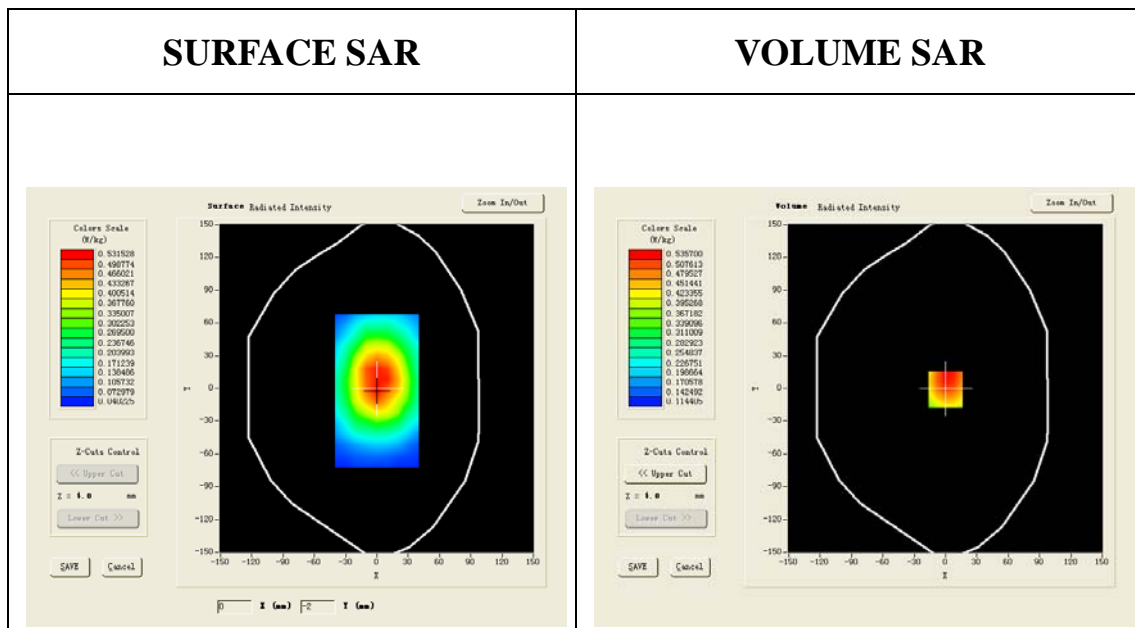
Satimo Configuration:

Probe:SSE5; Calibrated: 12/09/2011

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

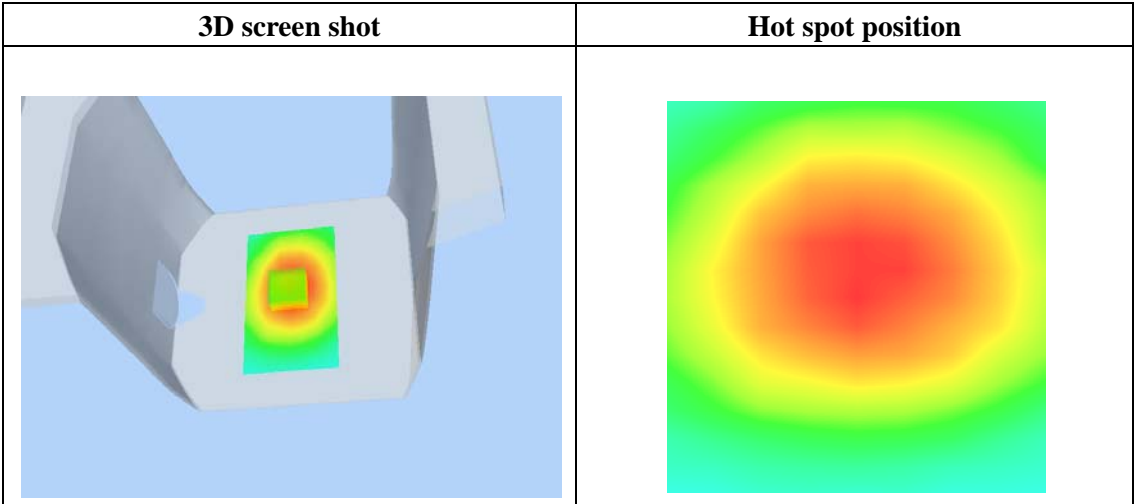
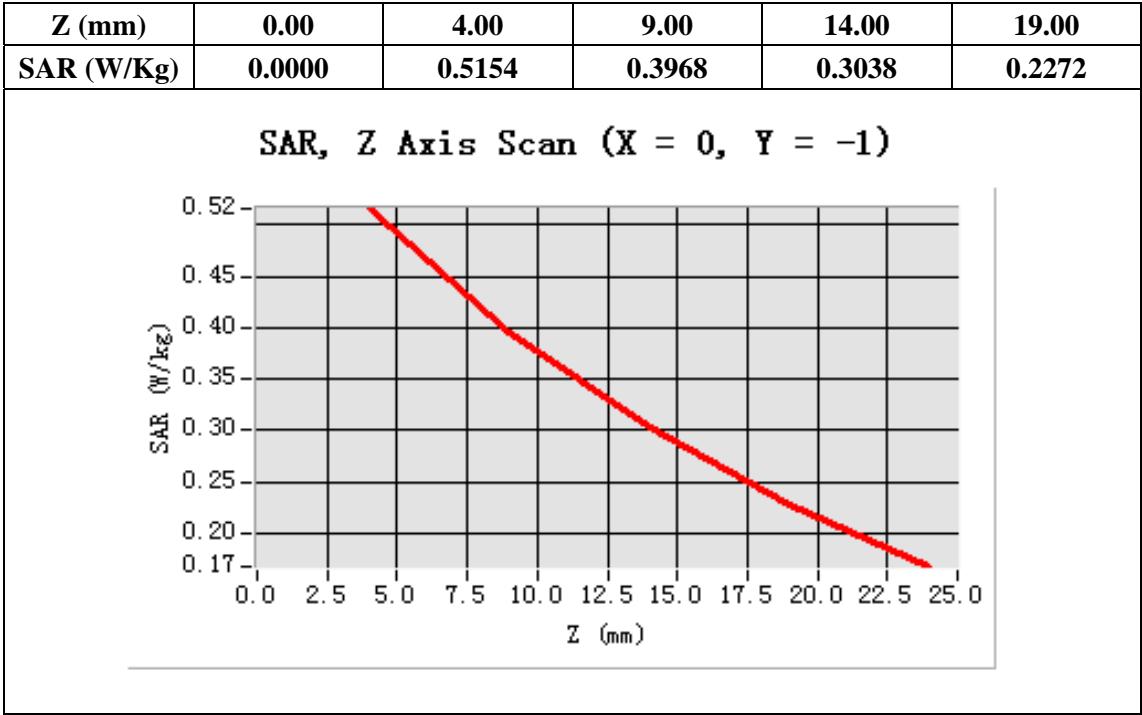
**Configuration/GSM850 Mid Body- Front /Area Scan (6x8x1): Measurement grid: dx=20mm, dy=20mm****Configuration/GSM850 Mid Body- Front Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm;**

<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=0.00, Y=-1.00

SAR 10g (W/Kg)	0.407437
SAR 1g (W/Kg)	0.561588



Test Laboratory: AGC Lab

Date: Sep.24,2012

GSM 850 Mid- Body- Back (MS with earphone)

DUT: Mobile Phone; Type: AM62

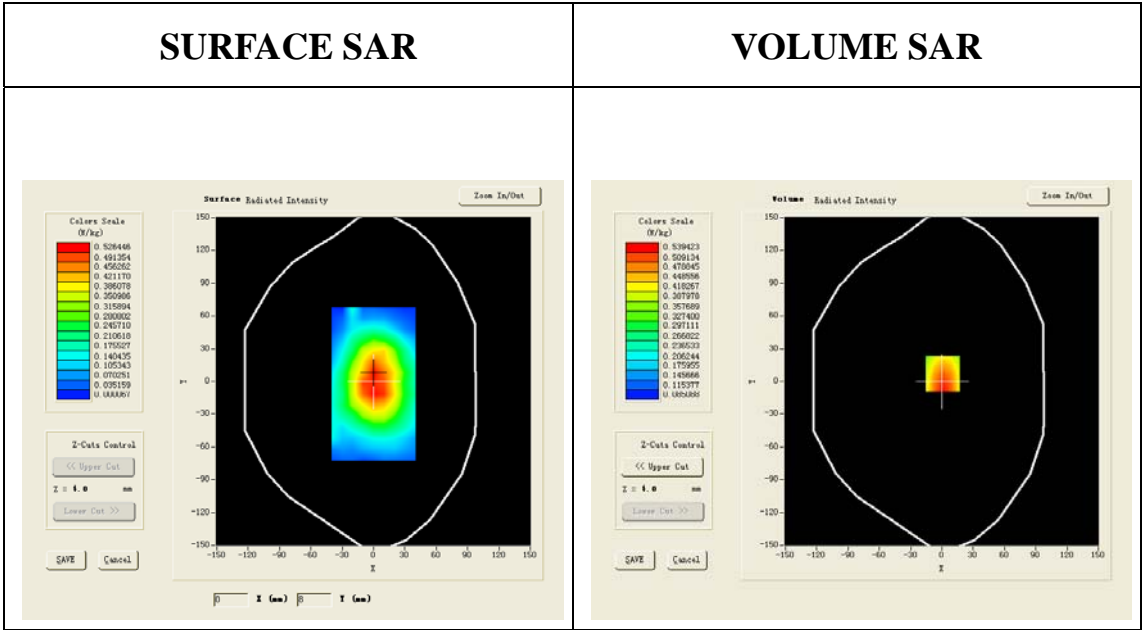
Communication System: Generic GSM; Communication System Band: GSM 850; Duty Cycle: 1:8.3;  
Conv.F=6.79;Frequency: 836.6 MHz; Medium parameters used:  $f = 835$  MHz;  $\sigma = 1.01$  mho/m;  $\epsilon_r = 55.13$ ;  
 $\rho = 1000$  kg/m<sup>3</sup> ;  
Phantom section: Flat Section  
Ambient temperature (°C): 21.0, Liquid temperature (°C): 21.0

Satimo Configuration:

- Probe:SSE5; Calibrated: 12/09/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
  - Phantom: SAM1; Type: SAM
  - Measurement SW: OpenSAR V4\_02\_01

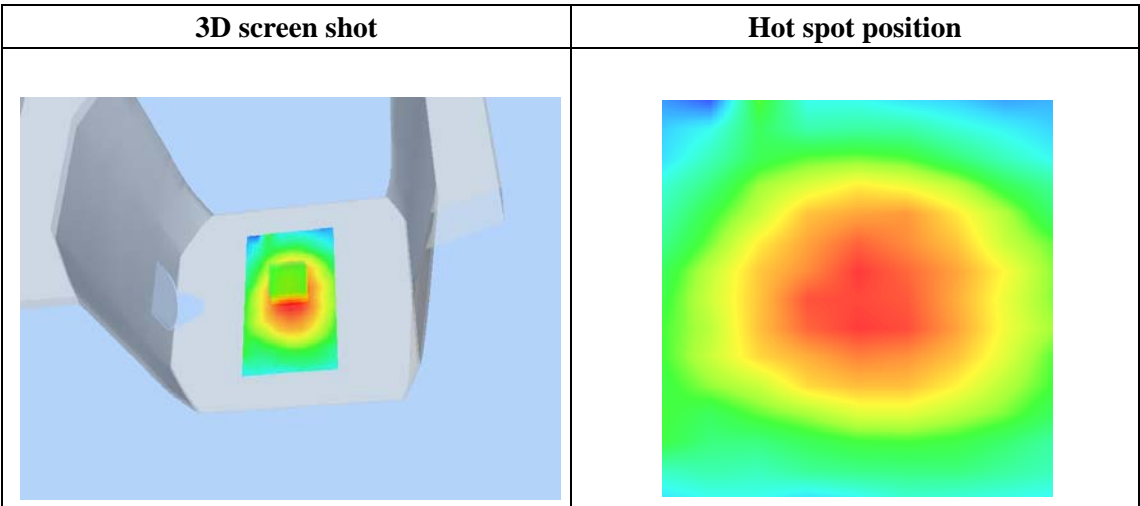
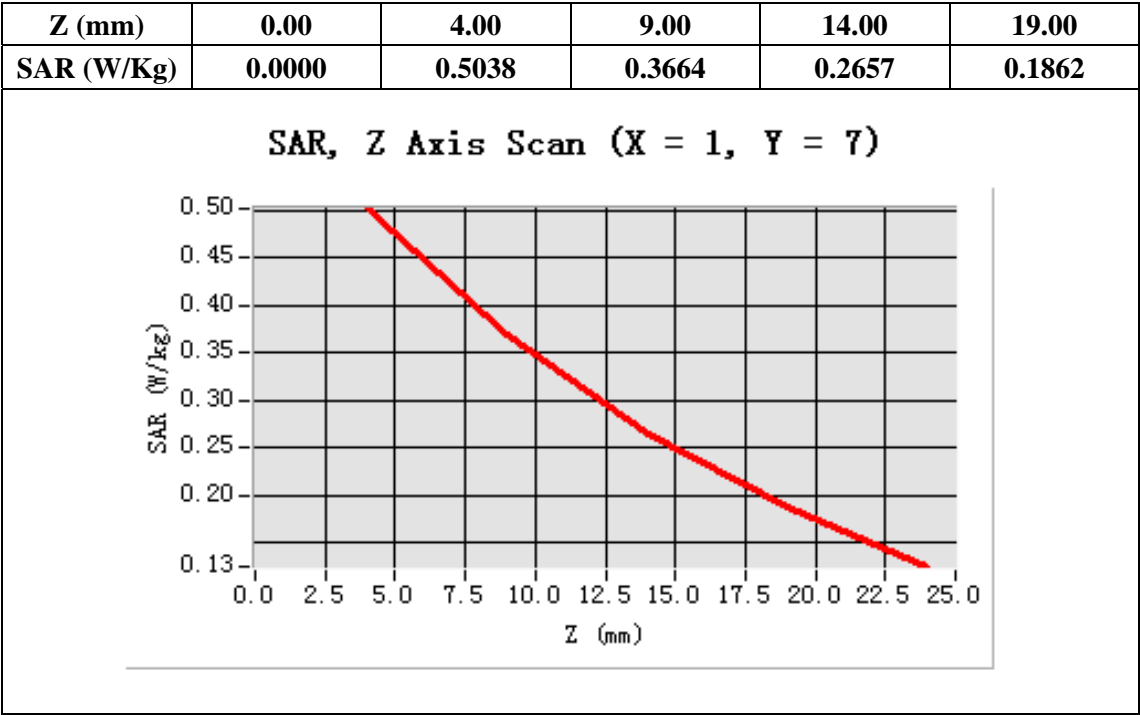
Configuration/GSM850 Mid Body-Back/Area Scan (6x8x1): Measurement grid: dx=20mm, dy=20mm  
Configuration/GSM850 Mid Body-Back/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm;

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



Maximum location: X=1.00, Y=7.00

SAR 10g (W/Kg)	0.373576
SAR 1g (W/Kg)	0.547324



Test Laboratory: AGC Lab

Date: Sep.24,2012

PCS 1900 Mid-Touch Left

DUT: Mobile Phone; Type: AM62

Communication System: Generic GSM; Communication System Band: PCS 1900; Duty Cycle: 1:8.3;  
Conv.F=6.42;Frequency: 1880 MHz; Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.42$  mho/m;  $\epsilon_r = 41.21$ ;  
 $\rho = 1000$  kg/m<sup>3</sup> ;  
Phantom section: Left Section  
Ambient temperature (°C): 21.0, Liquid temperature (°C): 21.0

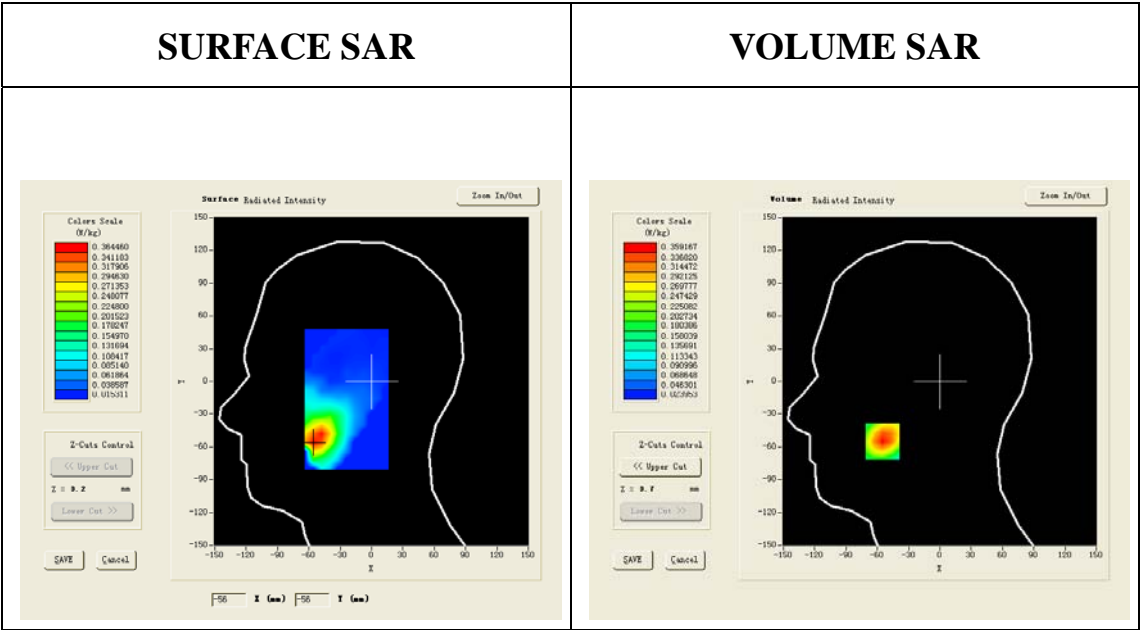
Satimo Configuration:

- Probe:SSE5; Calibrated: 12/09/2011
- 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;

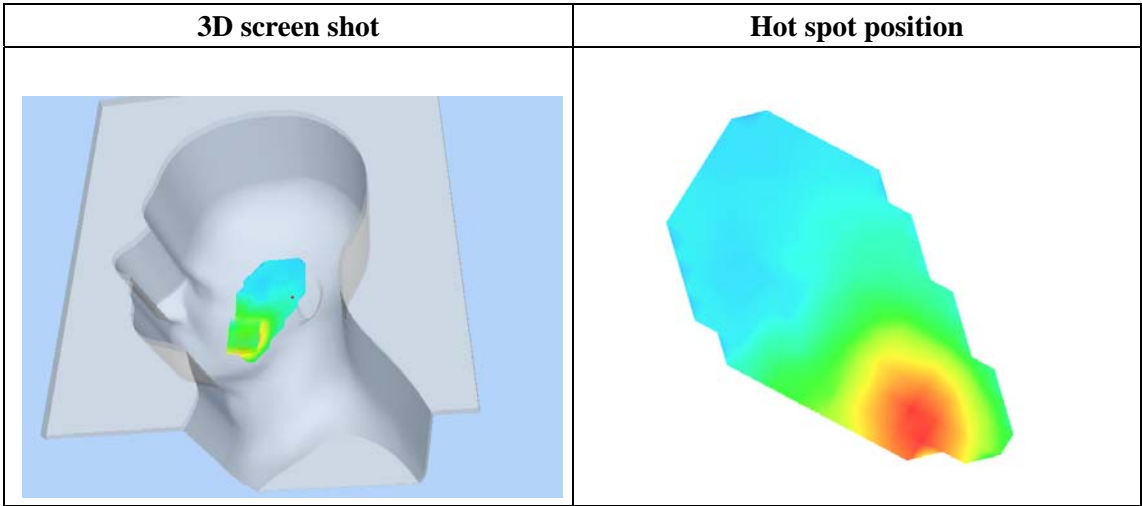
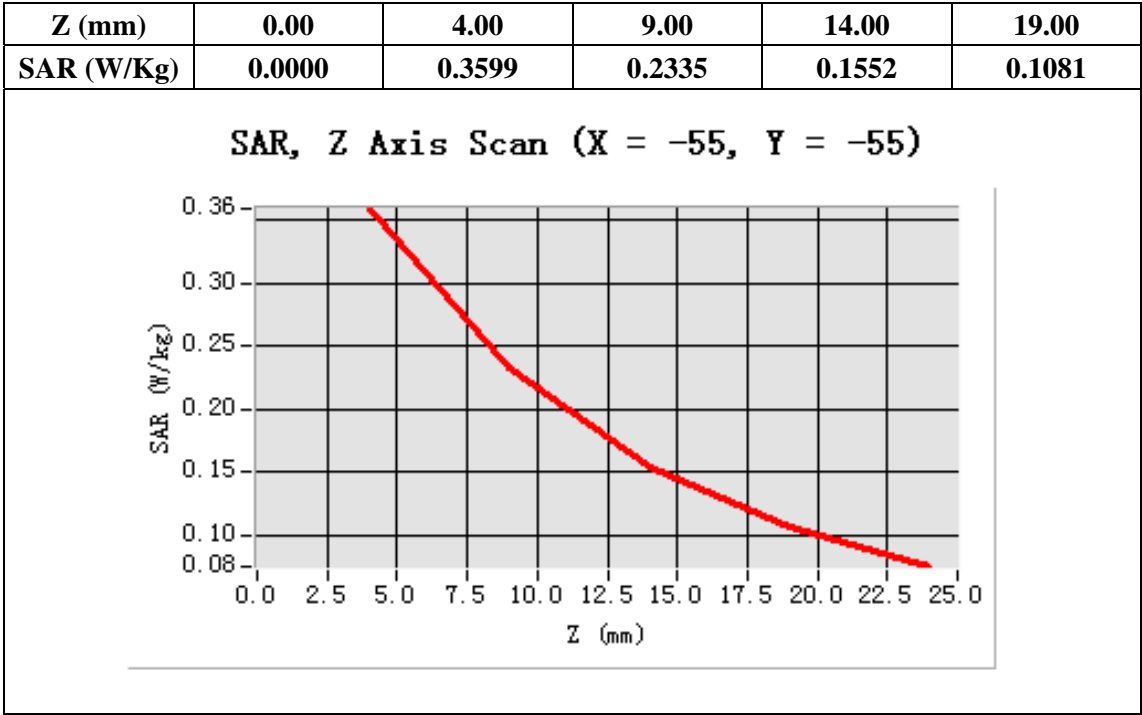
Area Scan	sam_direct_droit2_surf8mm.txt
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Very fast
Phantom	Left head
Device Position	Cheek
Band	GSM1900
Channels	Middle
Signal	TDMA (Crest factor: 8.0)





Maximum location: X=-55.00, Y=-55.00

SAR 10g (W/Kg)	0.209537
SAR 1g (W/Kg)	0.342194



**Test Laboratory: AGC Lab****Date: Sep.24,2012****PCS 1900 Mid-Tilt-Left****DUT: Mobile Phone; Type: AM62**

Communication System: Generic GSM; Communication System Band: PCS 1900; Duty Cycle: 1:8.3;

Conv.F=6.42;Frequency: 1880 MHz; Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.42$  mho/m;  $\epsilon_r = 41.21$ ; $\rho = 1000$  kg/m<sup>3</sup> ;

Phantom section: Left Section

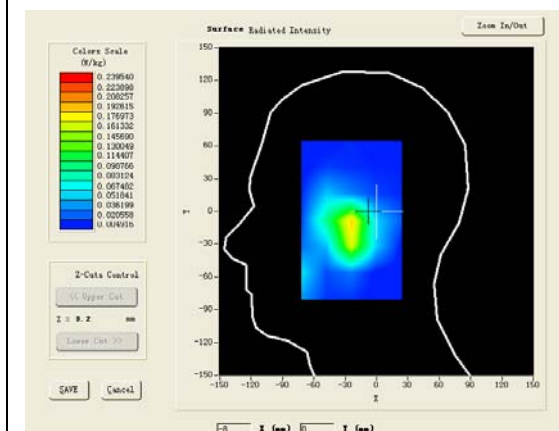
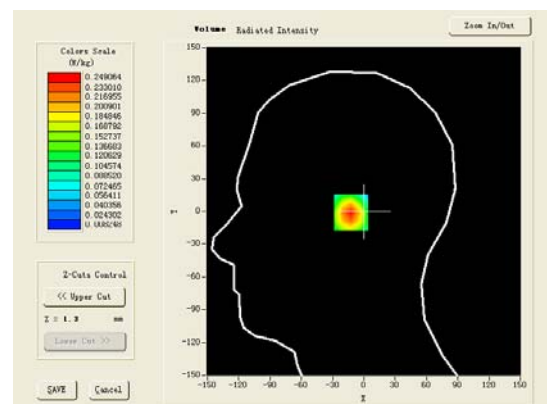
Ambient temperature (°C): 21.0, Liquid temperature (°C): 21.0

Satimo Configuration:

- Probe:SSE5; Calibrated: 12/09/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM1; Type: SAM
- Measurement SW: OpenSAR V4\_02\_01

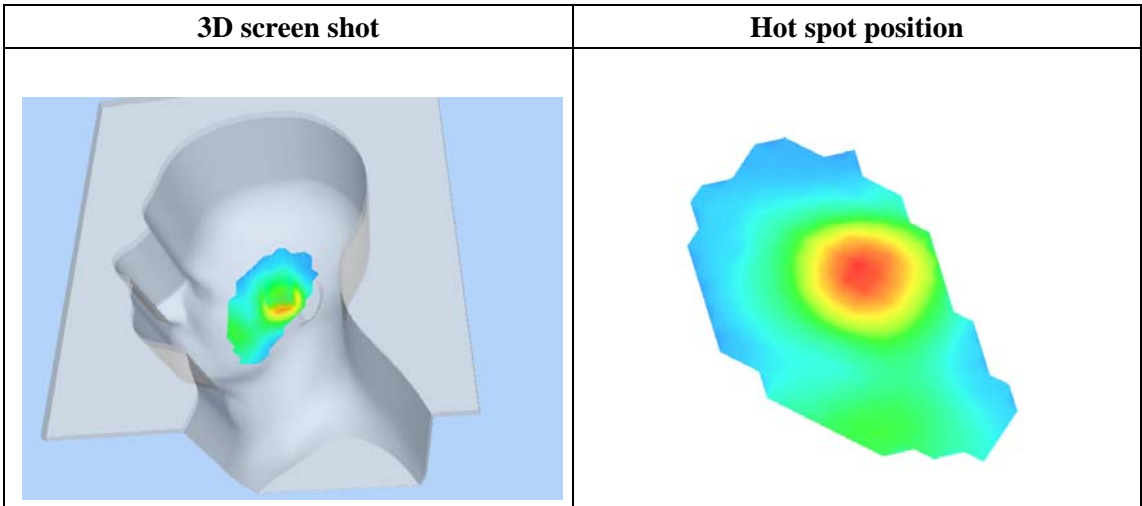
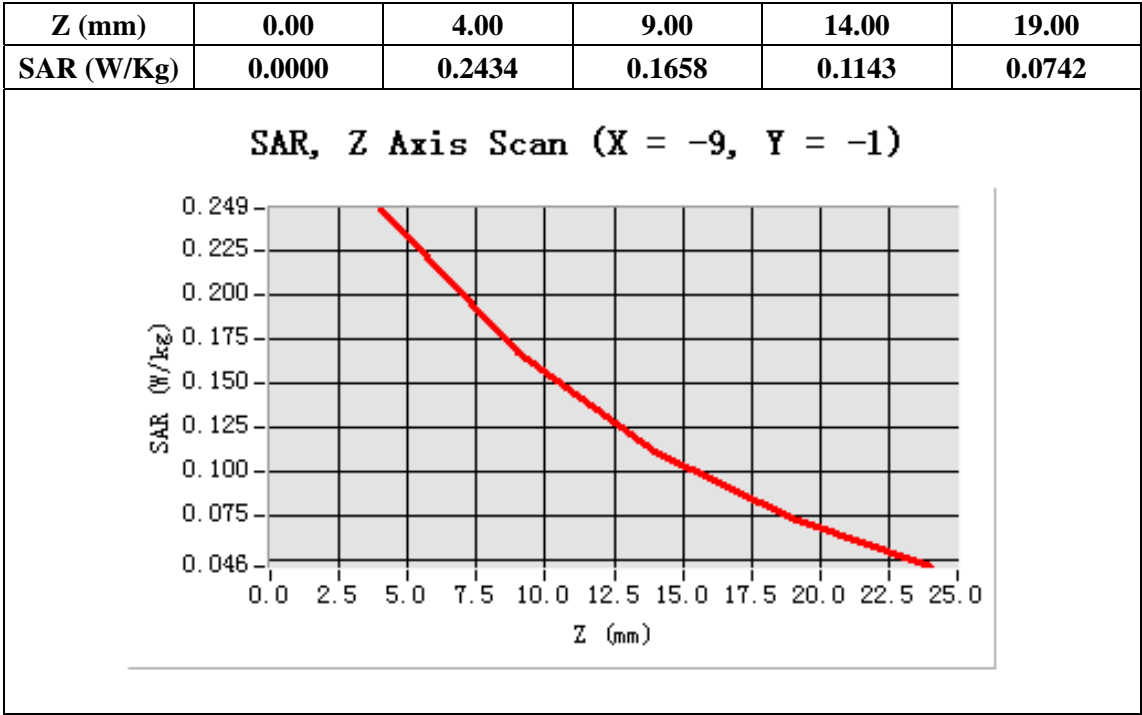
**Configuration/PCS1900 Mid Tilt-Left/Area Scan: Measurement grid: dx=20mm, dy=20mm****Configuration/PCS1900 Mid Tilt-Left/Zoom Scan: Measurement grid: dx=8mm, dy=8mm, dz=5mm;**

<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)

**SURFACE SAR****VOLUME SAR**

Maximum location: X=-9.00, Y=-1.00

SAR 10g (W/Kg)	0.139022
SAR 1g (W/Kg)	0.233583



Test Laboratory: AGC Lab

Date: Sep.24,2012

PCS 1900 Mid-Touch Right

DUT: Mobile Phone; Type: AM62

Communication System: Generic GSM; Communication System Band: PCS 1900; Duty Cycle: 1:8.3;  
Conv.F=6.42;Frequency: 1880 MHz; Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.42$  mho/m;  $\epsilon_r = 41.21$ ;  
 $\rho = 1000$  kg/m<sup>3</sup> ;

Phantom section: Right Section

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

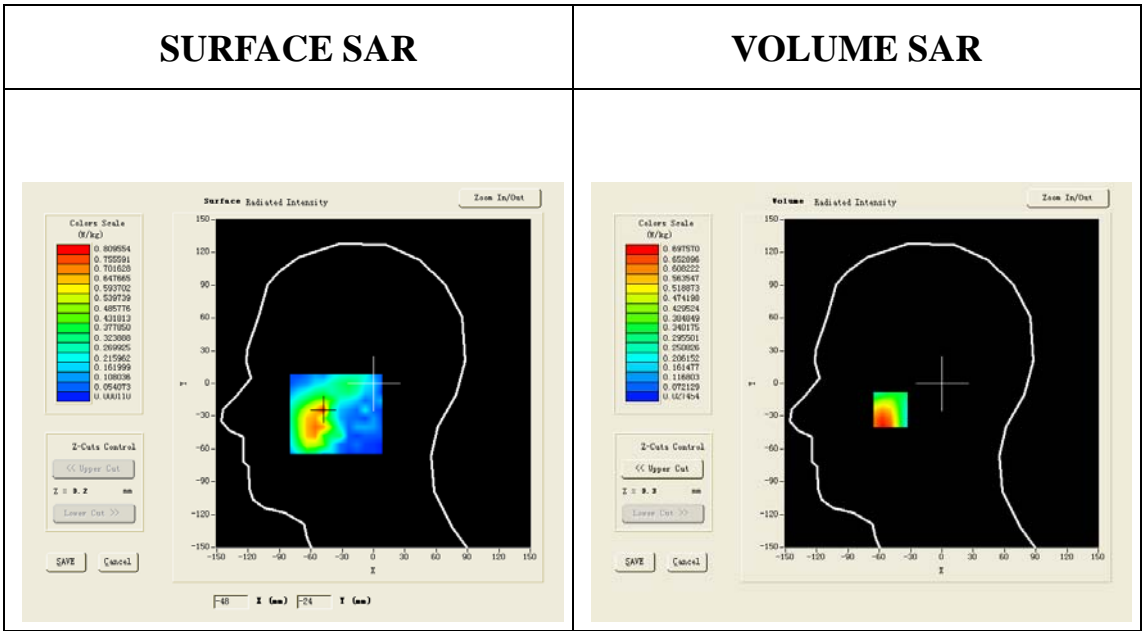
Satimo Configuration:

- Probe:SSE5; Calibrated: 12/09/2011
- 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

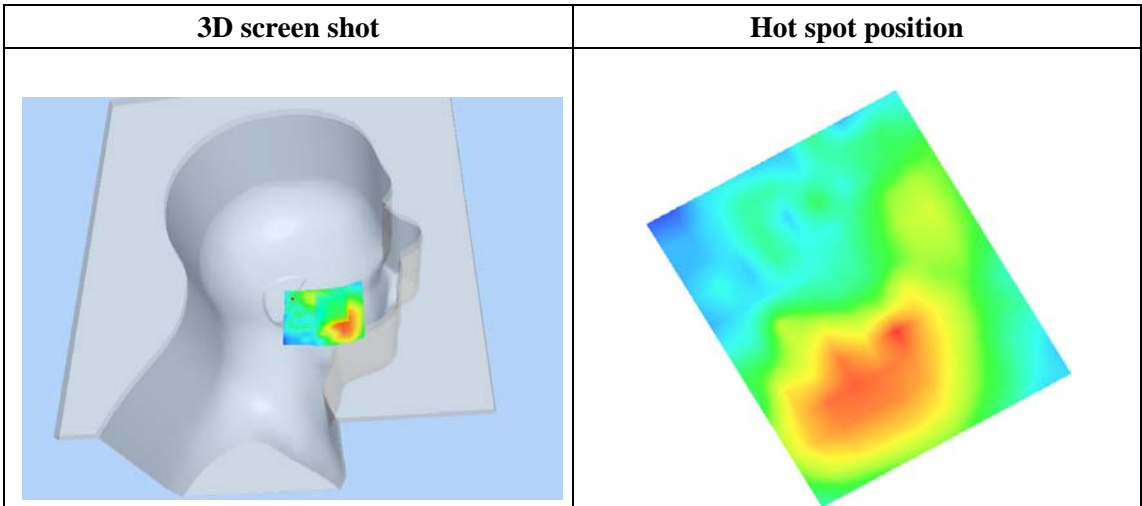
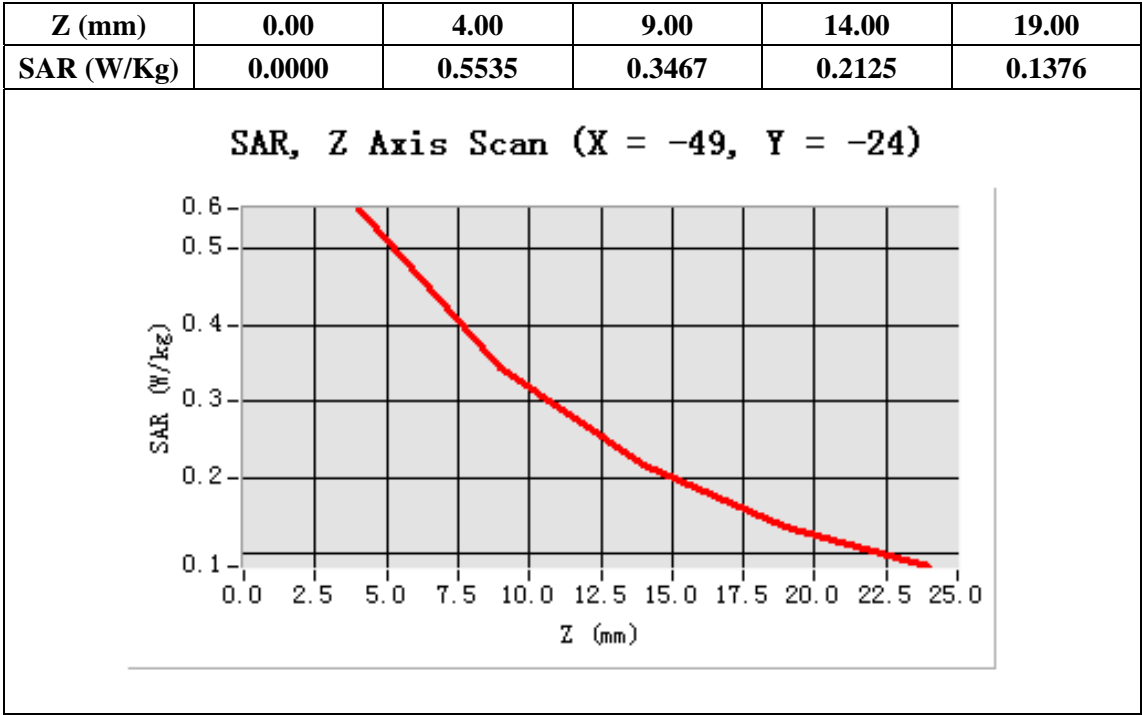
Configuration/PCS1900 Mid Touch-Right/Zoom Scan: Measurement grid: dx=8mm,  
dy=8mm, dz=5mm;

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



Maximum location: X=-49.00, Y=-24.00

SAR 10g (W/Kg)	0.381572
SAR 1g (W/Kg)	0.647036



Test Laboratory: AGC Lab

Date: Sep.24,2012

PCS 1900 Mid-Tilt Right

DUT: Mobile Phone; Type: AM62

Communication System: Generic GSM; Communication System Band: PCS 1900; Duty Cycle: 1:8.3;  
Conv.F=6.42; Frequency: 1880 MHz; Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.42$  mho/m;  $\epsilon_r = 41.21$ ;  
 $\rho = 1000$  kg/m<sup>3</sup> ;

Phantom section: Right Section

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

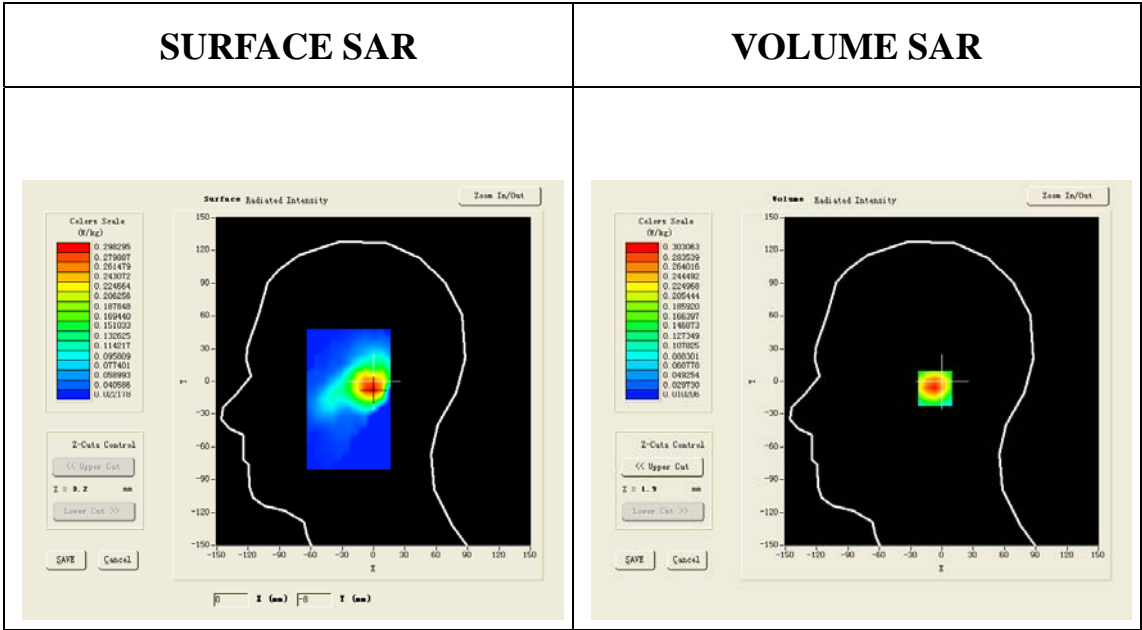
Satimo Configuration:

- Probe:SSE5; Calibrated: 12/09/2011
- 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

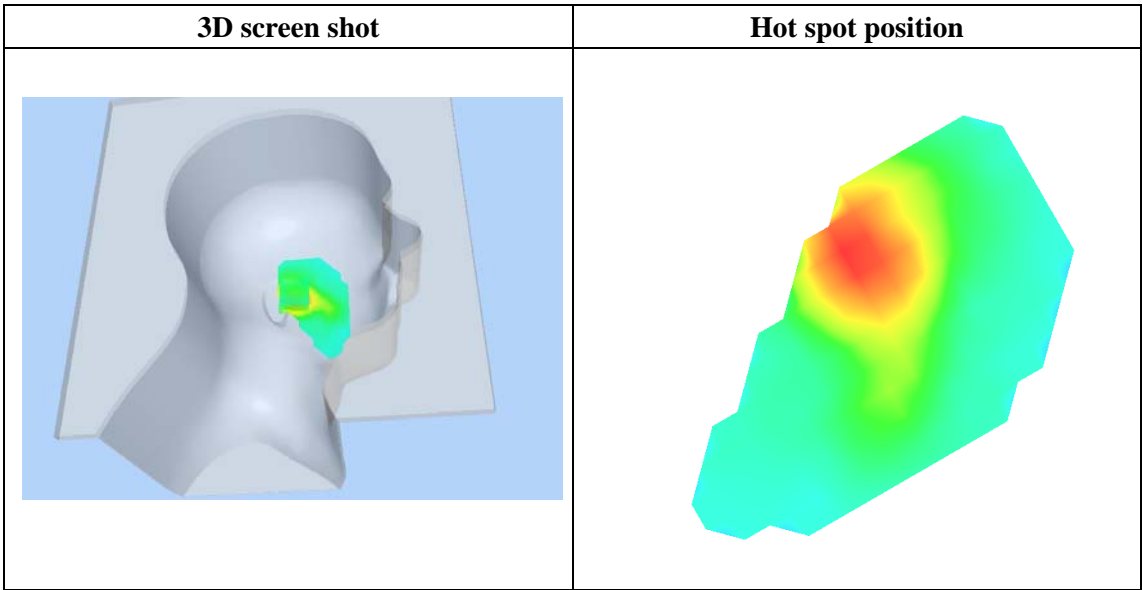
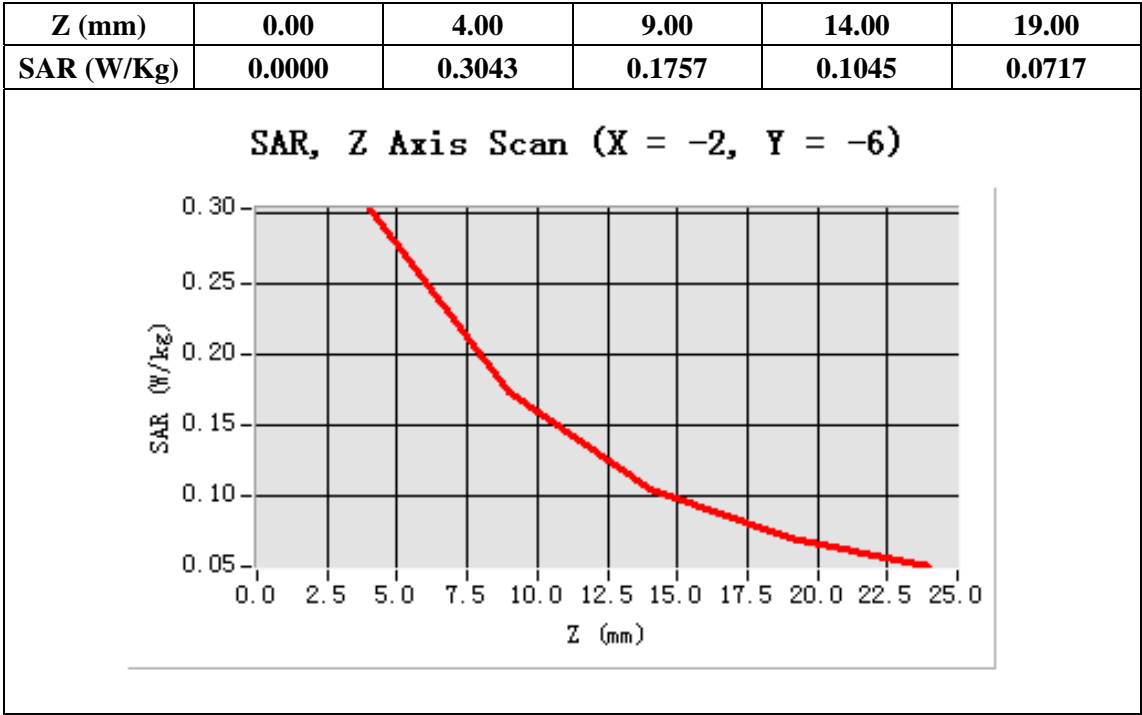
Configuration/PCS1900 Mid Tilt-Right/Zoom Scan: Measurement grid: dx=8mm, dy=8mm, dz=5mm;

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



Maximum location: X=-2.00, Y=-6.00

SAR 10g (W/Kg)	0.158376
SAR 1g (W/Kg)	0.286345



**Test Laboratory: AGC Lab****Date: Sep.24,2012****PCS 1900 Mid-Body Back****DUT: Mobile Phone; Type: AM62**

Communication System: Generic GSM; Communication System Band: PCS 1900; Duty Cycle: 1:8.3;

Conv.F=6.42;Frequency: 1880 MHz; Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.51$  mho/m;  $\epsilon_r = 53.36$ ; $\rho = 1000$  kg/m<sup>3</sup> ;

Phantom section: Flat Section

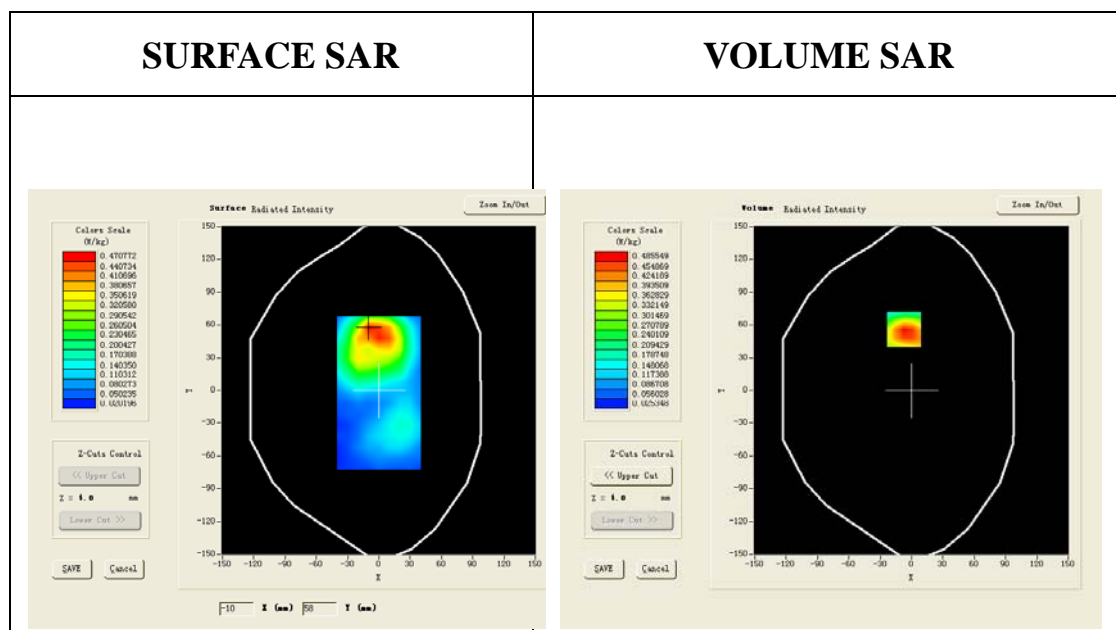
Ambient temperature (°C): 21.0, Liquid temperature (°C): 21.0

Satimo Configuration:

- Probe:SSE5; Calibrated: 12/09/2011
- 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;**

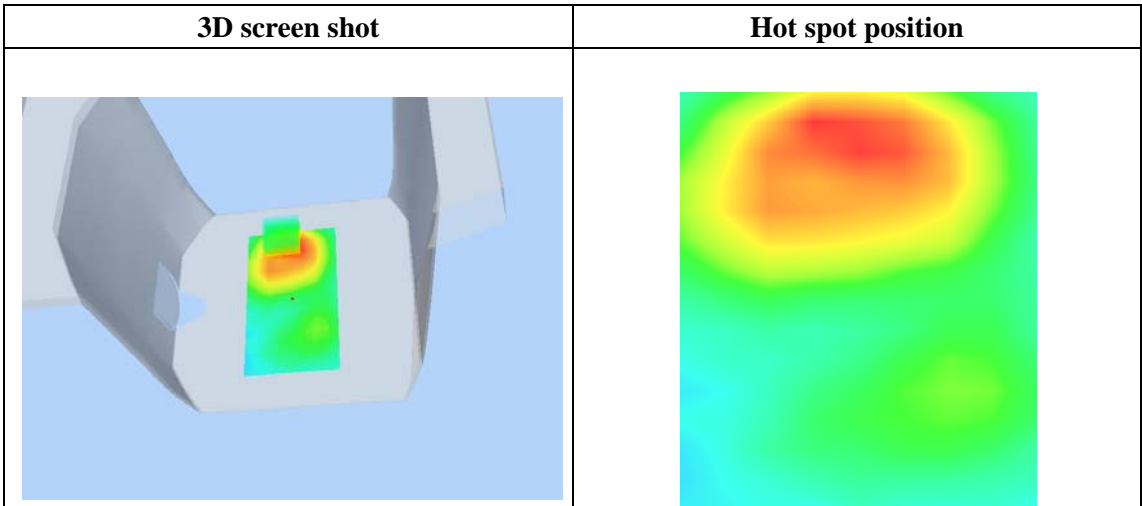
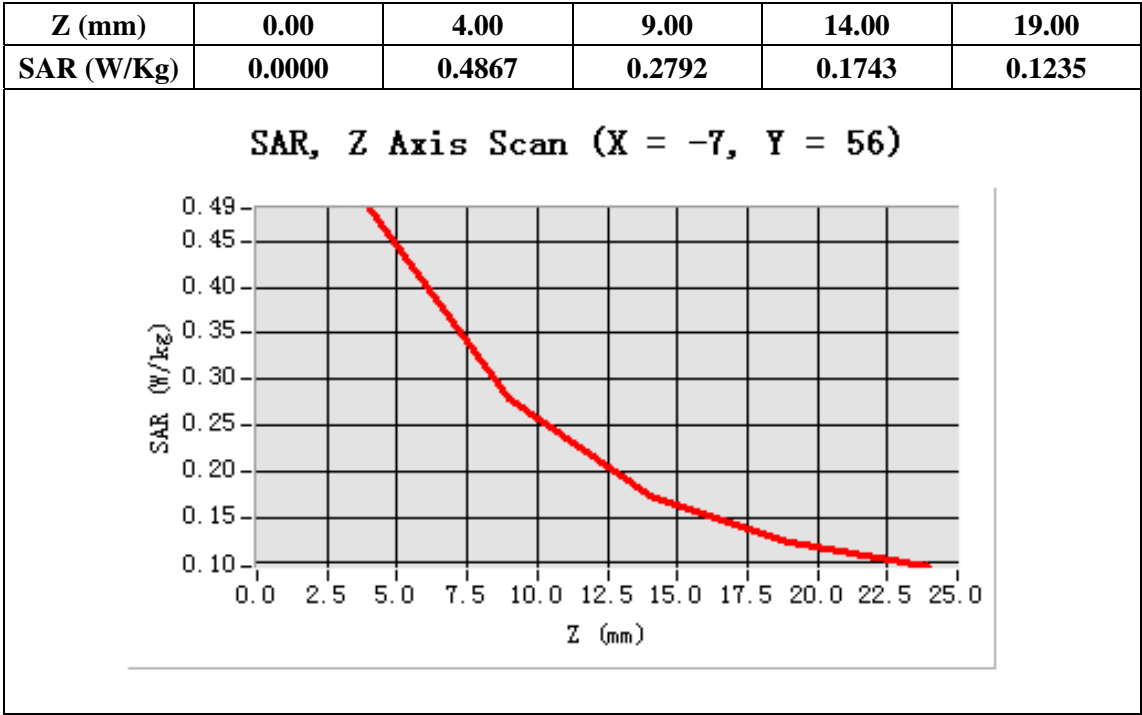
<b>Area Scan</b>	surf_sam_plan.txt
<b>ZoomScan</b>	5x5x7,dx=8mm dy=8mm dz=5mm,Very fast
<b>Phantom</b>	Validation plane
<b>Device Position</b>	Body
<b>Band</b>	GSM1900
<b>Channels</b>	Middle
<b>Signal</b>	TDMA (Crest factor: 8.0)





Maximum location: X=-7.00, Y=56.00

SAR 10g (W/Kg)	0.301756
SAR 1g (W/Kg)	0.507238



Test Laboratory: AGC Lab

Date: Sep.24,2012

PCS 1900 Mid-Body Back (2up)

DUT: Mobile Phone; Type: AM62

Communication System: GPRS-2 Slot; Communication System Band: PCS1900; Duty Cycle: 1:4.2 ;  
Conv.F=6.42; Frequency: 1880 MHz; Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.51$  mho/m;  $\epsilon_r = 53.36$ ;  
 $\rho = 1000$  kg/m<sup>3</sup> ;  
Phantom section: Flat Section  
Ambient temperature (°C): 21.0, Liquid temperature (°C): 21.0

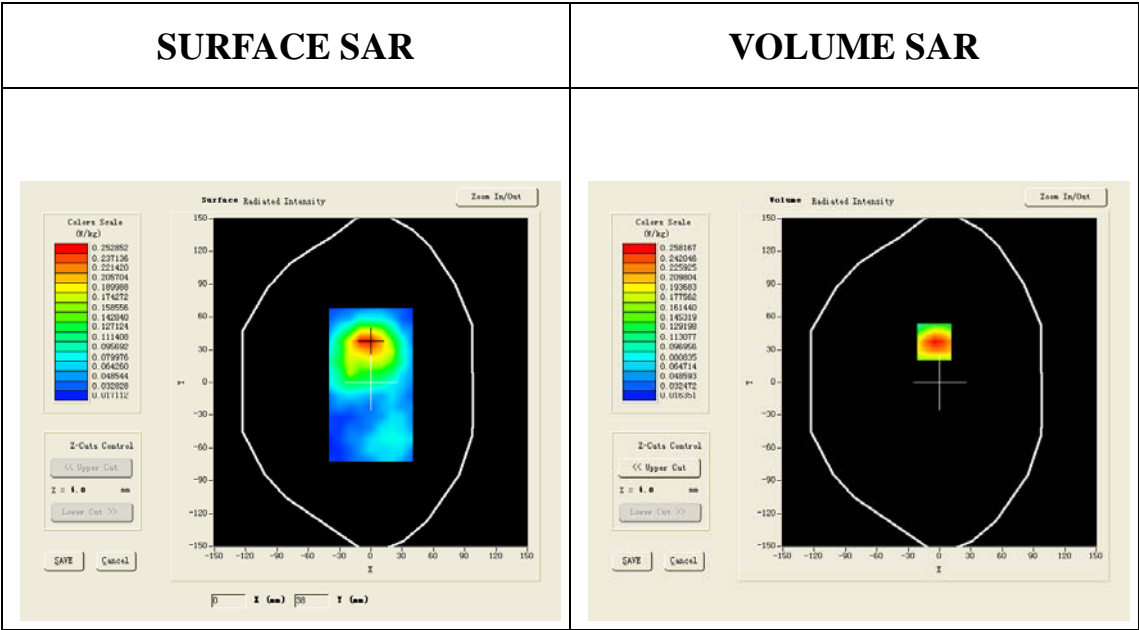
Satimo Configuration:

- Probe:SSE5; Calibrated: 12/09/2011
- 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

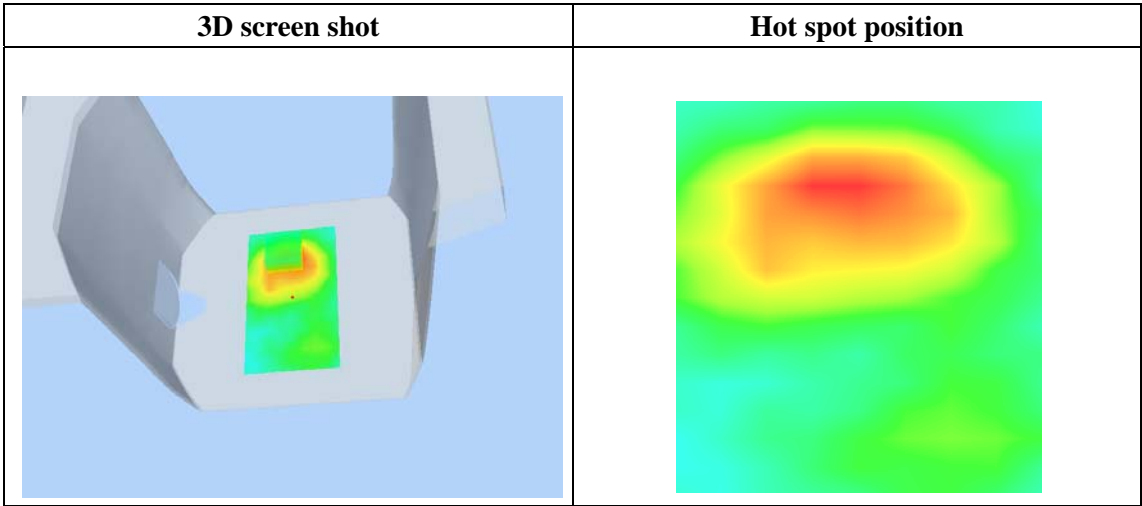
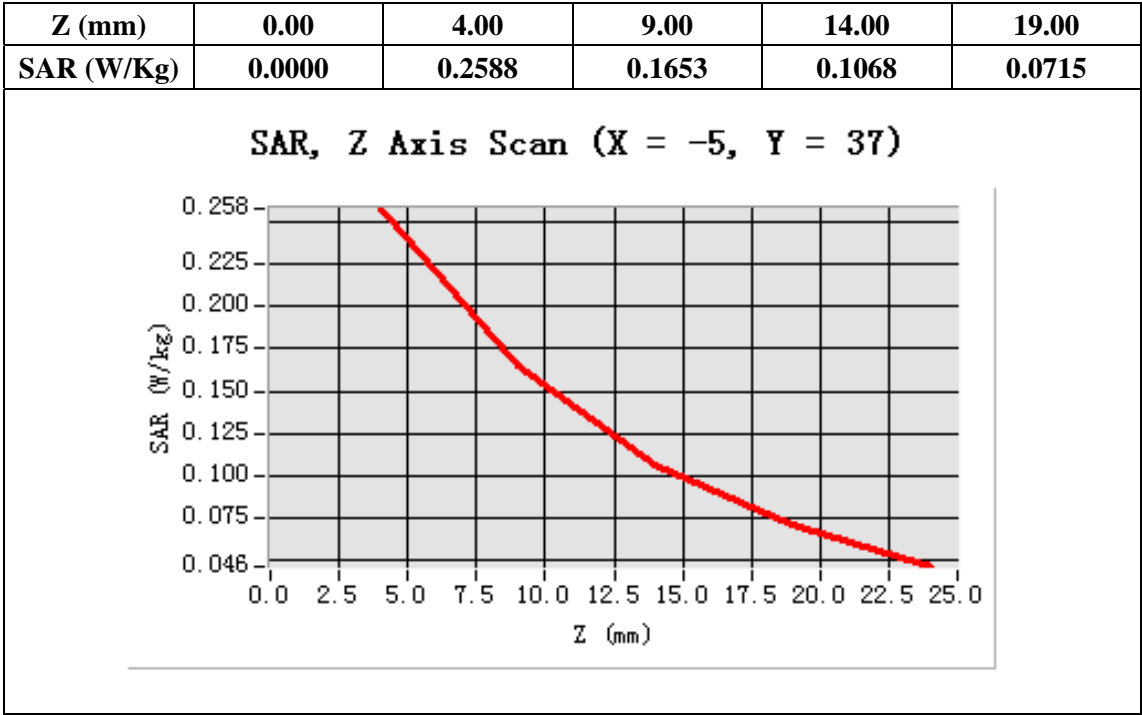
Configuration/GPRS1900 Mid Body-Back/Zoom Scan: Measurement grid: dx=8mm,  
dy=8mm, dz=5mm;

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



Maximum location: X=-5.00, Y=37.00

SAR 10g (W/Kg)	0.161255
SAR 1g (W/Kg)	0.265139



**Test Laboratory: AGC Lab****Date: Sep.24,2012****PCS 1900 Mid-Body Back (3up)****DUT: Mobile Phone; Type: AM62**

Communication System: GPRS-3 Slot; Communication System Band: PCS 1900; Duty Cycle:1:2.8 ;

Conv.F=6.42; Frequency: 1880 MHz; Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.51$  mho/m;  $\epsilon_r = 53.36$  $\rho = 1000\text{kg/m}^3$  ;

Phantom section: Flat Section

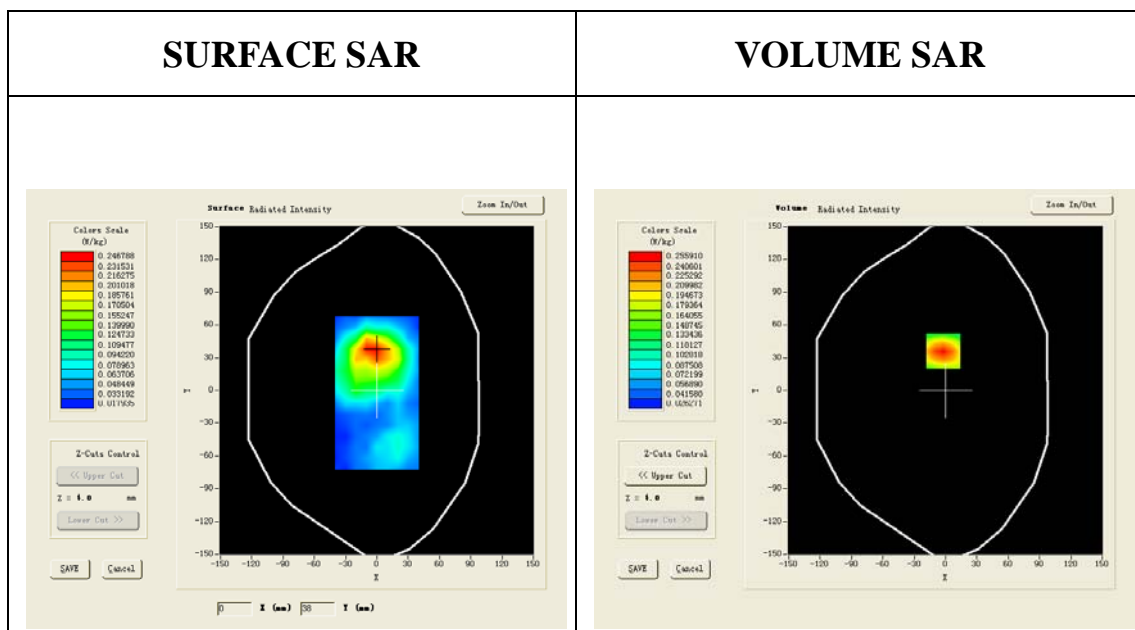
Ambient temperature ( $^{\circ}\text{C}$ ): 21.0, Liquid temperature ( $^{\circ}\text{C}$ ): 21.0

Satimo Configuration:

- Probe:SSE5; Calibrated: 12/09/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM1; Type: SAM
- Measurement SW: OpenSAR V4\_02\_01

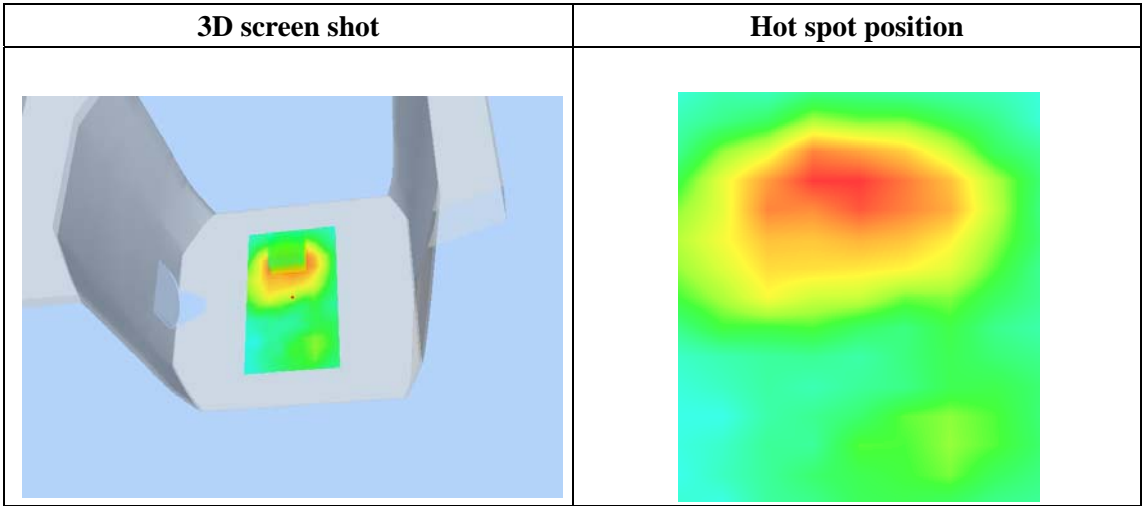
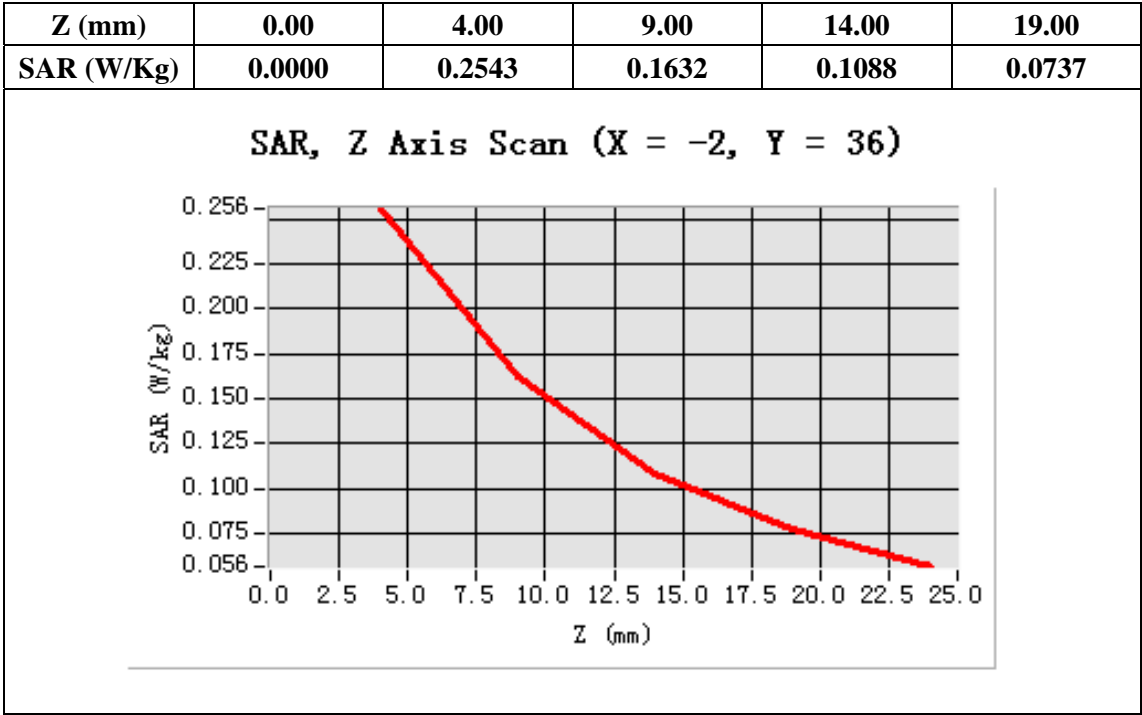
**Configuration/GPRS1900 Mid Body-Back/Area Scan: Measurement grid: dx=20mm, dy=20mm****Configuration/GPRS1900 Mid Body-Back/Zoom Scan: Measurement grid: dx=8mm, dy=8mm, dz=5mm;**

<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: 2.7)



Maximum location: X=-2.00, Y=36.00

SAR 10g (W/Kg)	0.161431
SAR 1g (W/Kg)	0.263754



Test Laboratory: AGC Lab

Date: Sep.24,2012

PCS 1900 Mid-Body Back (4up)

DUT: Mobile Phone; Type: AM62

Communication System: GPRS-4 Slot; Communication System Band: PCS 1900; Duty Cycle:1:2.1 ;  
Conv.F=6.42;Frequency: 1880 MHz; Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.51$  mho/m;  $\epsilon_r = 53.36$ ;  
 $\rho = 1000\text{kg/m}^3$  ;

Phantom section: Flat Section

Ambient temperature ( $^{\circ}\text{C}$ ): 21.0, Liquid temperature ( $^{\circ}\text{C}$ ): 21.0

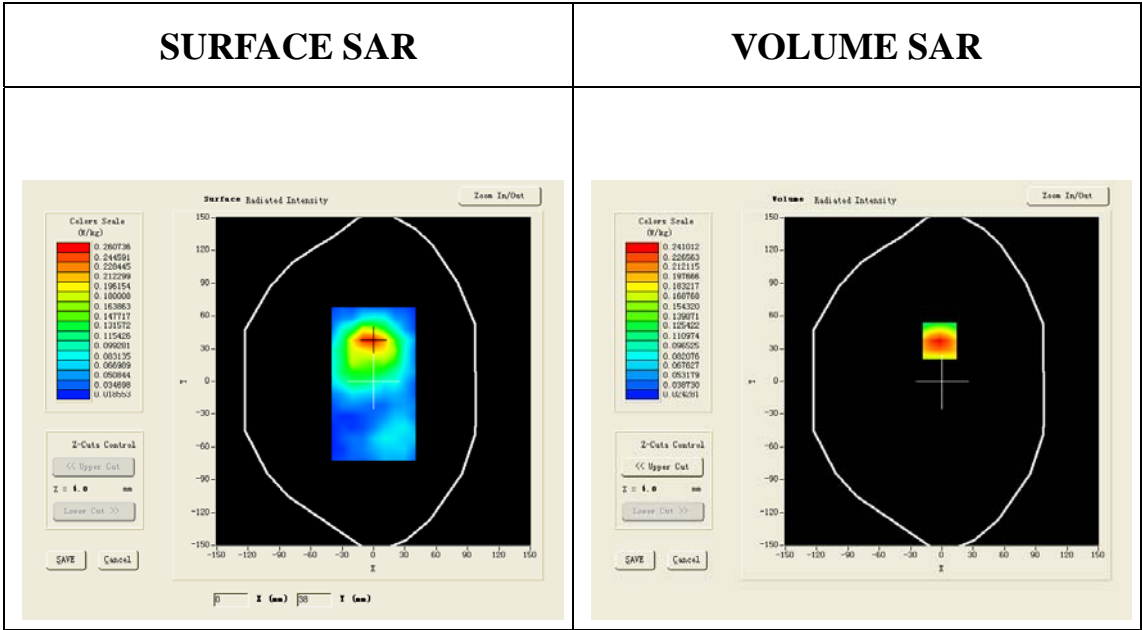
Satimo Configuration:

- Probe:SSE5; Calibrated: 12/09/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM1; Type: SAM
- Measurement SW: OpenSAR V4\_02\_01

Configuration/GPRS1900 Mid Body-Back/Area Scan: Measurement grid:  $dx=20\text{mm}$ ,  $dy=20\text{mm}$

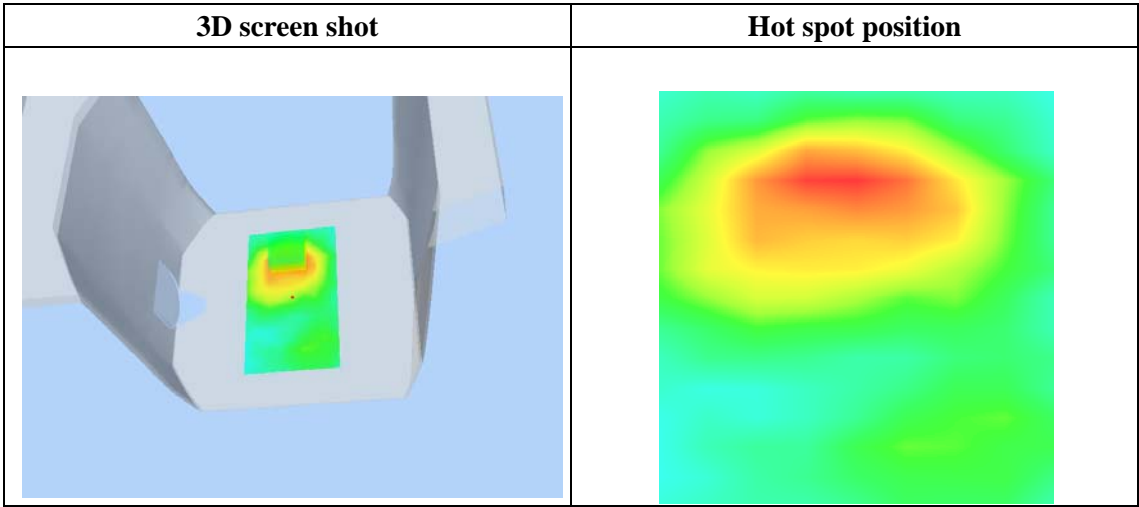
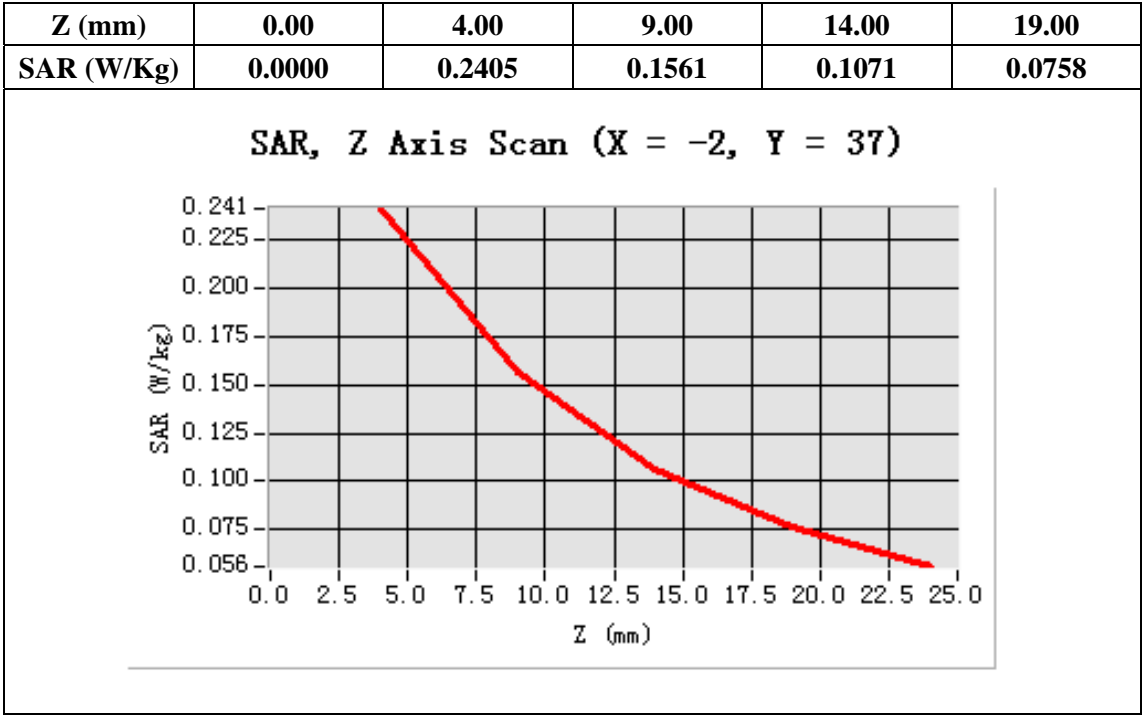
Configuration/GPRS1900 Mid Body-Back/Zoom Scan: Measurement grid:  $dx=8\text{mm}$ ,  
 $dy=8\text{mm}$ ,  $dz=5\text{mm}$ ;

Area Scan	surf_sam_plan.txt
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Very fast
Phantom	Validation plane
Device Position	Body
Band	GSM1900
Channels	Middle
Signal	TDMA (Crest factor: 2.0)



Maximum location: X=-2.00, Y=37.00

SAR 10g (W/Kg)	0.156437
SAR 1g (W/Kg)	0.247340



**Test Laboratory: AGC Lab****Date: Sep.24,2012****PCS 1900 Mid-Body -Front (MS)****DUT: Mobile Phone; Type: AM62**

Communication System: Generic GSM; Communication System Band: PCS 1900; Duty Cycle: 1:8.3;

Conv.F=6.42;Frequency: 1880 MHz; Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.51$  mho/m;  $\epsilon_r = 53.36$ ; $\rho = 1000$  kg/m<sup>3</sup> ;

Phantom section: Flat Section

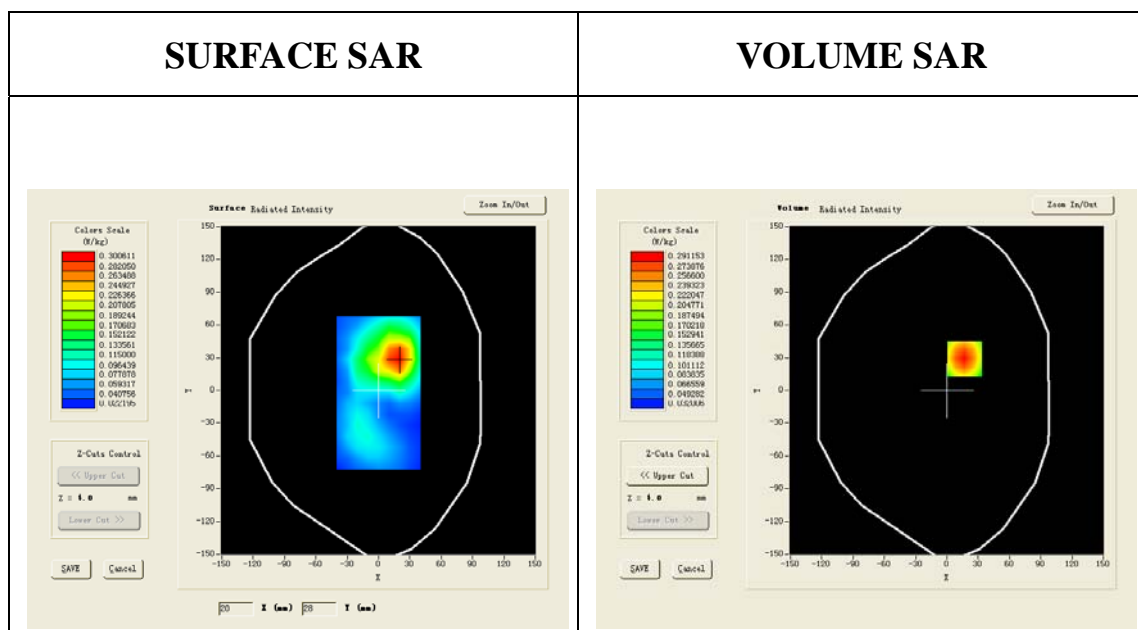
Ambient temperature (°C): 21.0, Liquid temperature (°C): 21.0

Satimo Configuration:

- Probe:SSE5; Calibrated: 12/09/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM1; Type: SAM
- Measurement SW: OpenSAR V4\_02\_01

**Configuration/PCS1900 Mid Body- Front /Area Scan: Measurement grid: dx=20mm, dy=20mm****Configuration/PCS1900 Mid Body- Front /Zoom Scan: Measurement grid: dx=8mm, dy=8mm, dz=5mm;**

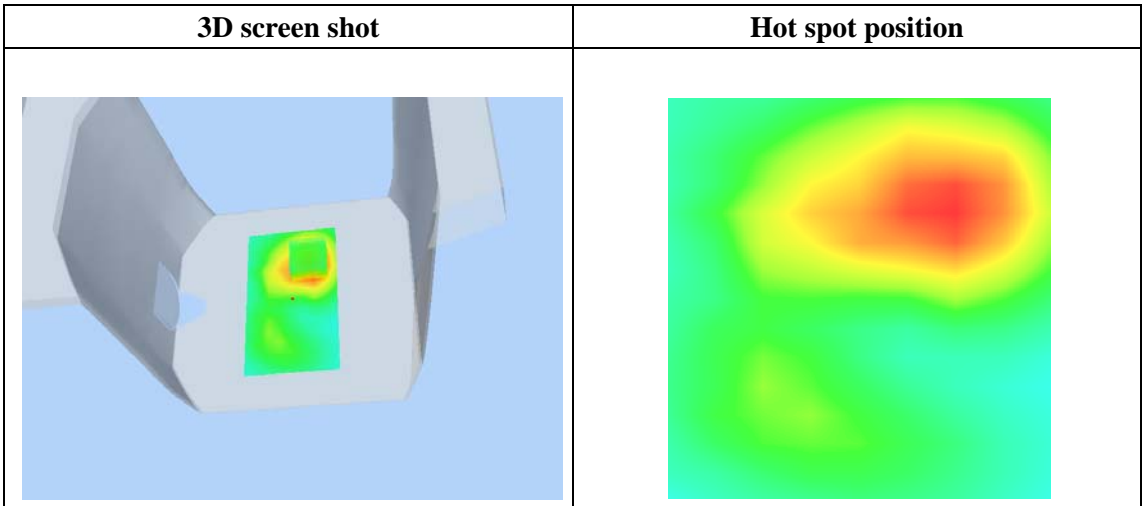
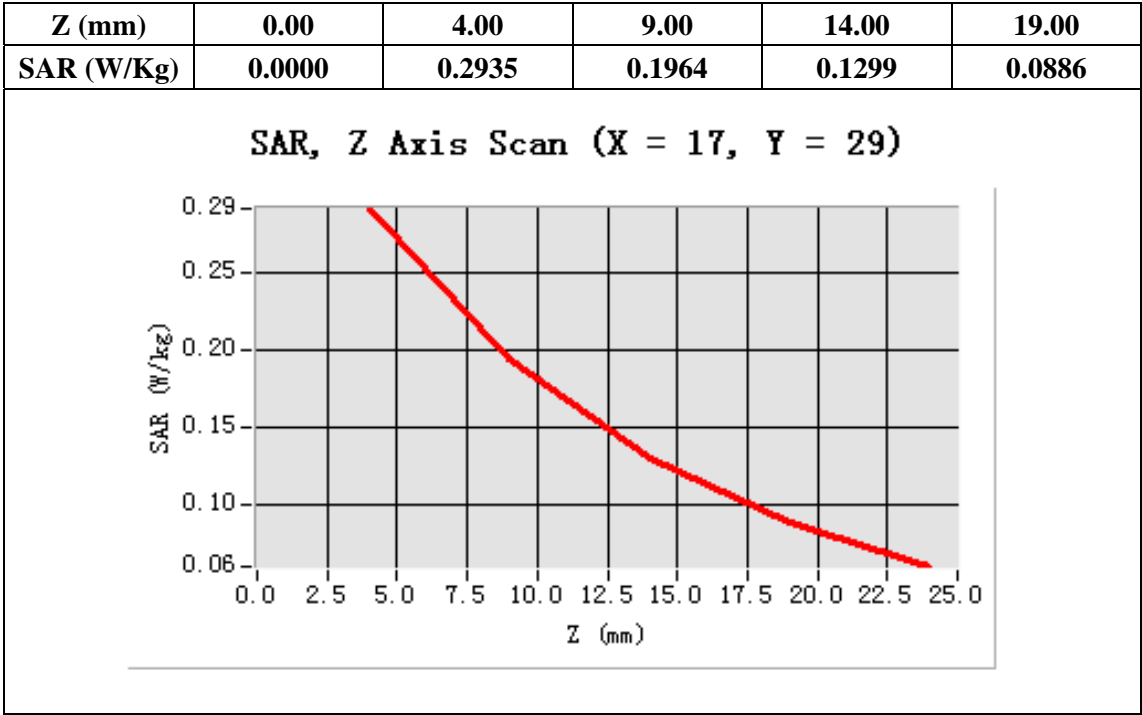
<b>Area Scan</b>	surf_sam_plan.txt
<b>ZoomScan</b>	5x5x7,dx=8mm dy=8mm dz=5mm,Very fast
<b>Phantom</b>	Validation plane
<b>Device Position</b>	Body
<b>Band</b>	GSM1900
<b>Channels</b>	Middle
<b>Signal</b>	TDMA (Crest factor: 8.0)





Maximum location: X=17.00, Y=29.00

SAR 10g (W/Kg)	0.191357
SAR 1g (W/Kg)	0.297108



**Test Laboratory: AGC Lab****Date: Sep.24,2012****PCS 1900 Mid-Body- Back (MS with earphone)****DUT: Mobile Phone; Type: AM62**

Communication System: Generic GSM; Communication System Band: PCS 1900; Duty Cycle: 1:8.3;

Conv.F=6.42;Frequency: 1880 MHz; Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.51$  mho/m;  $\epsilon_r = 53.36$ ; $\rho = 1000$  kg/m<sup>3</sup> ;

Phantom section: Flat Section

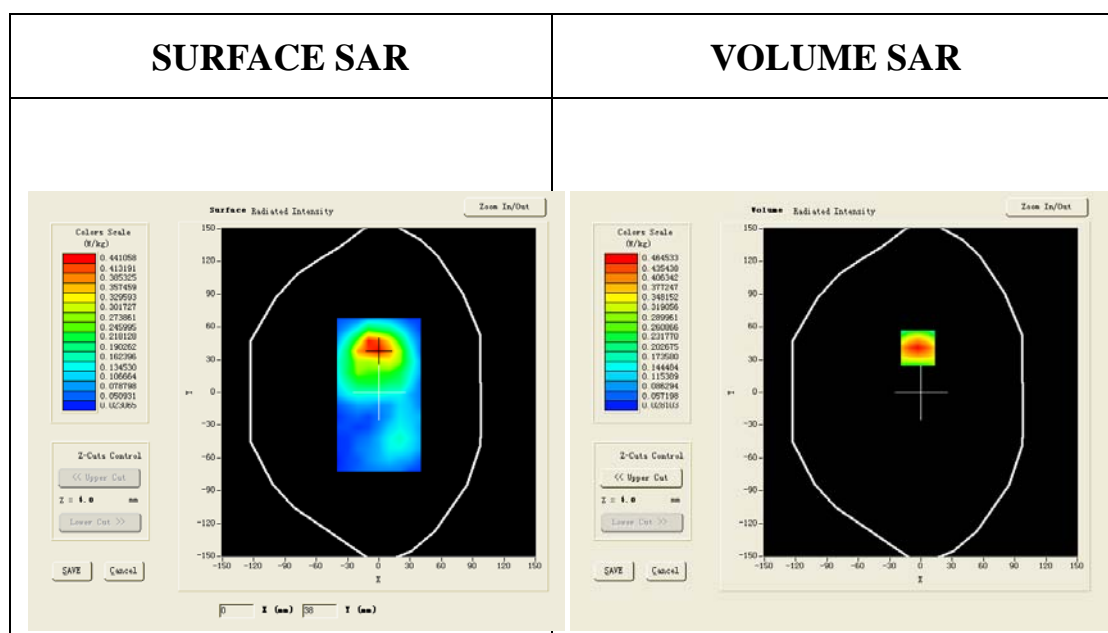
Ambient temperature (°C): 21.0, Liquid temperature (°C): 21.0

Satimo Configuration:

- Probe:SSE5; Calibrated: 12/09/2011
- 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;**

<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=-3.00, Y=41.00

SAR 10g (W/Kg)	0.275547
SAR 1g (W/Kg)	0.472436

