



Report No.:AGC00946130901FH01

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SAR Test Report

Report No.: AGC00946130901FH01

FCC ID : Y3GGALAPAD6
APPLICATION PURPOSE : Original Equipment
PRODUCT DESIGNATION : Smart Phone
BRAND NAME : Galapad, Sosmart
MODEL NAME : Galapad 6
CLIENT : Galaxy Microsystems Ltd.
DATE OF ISSUE : Sep.13, 2013
STANDARD(S) : IEEE Std. 1528:2003
 : 47CFR § 2.1093
 : IEEE/ANSI C95.1
REPORT VERSION : V1.0

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



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Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Sep.13, 2013	Valid	Original Report

Test Report Certification

Applicant Name :	Galaxy Microsystems Ltd.
Applicant Address :	Room1101-1103, 11/F, Enterprise Square Tow, 3 Sheung, Yuet Road, Kowloon Bay, Kowloon, Hong Kong
Manufacturer Name :	Shen Zhen Project Enterprise Co., LTD.
Manufacturer Address :	R106, 30 Building, Ziheng Industrial Park, Nantou Checkpoint, Nanshan District, Shenzhen
Product Designation :	Smart Phone
Brand Name :	Galapad, Sosmart
Model Name :	Galapad 6
Different Description	N/A
EUT Voltage :	DC3.7V by battery
Applicable Standard :	IEEE Std. 1528:2003 47CFR § 2.1093 IEEE/ANSI C95.1
Test Date :	Sep.12, 2013
Test Results :	MAX SAR MEASUREMENT(1g) Head: 0.406 W/Kg Body: 0.266 W/Kg (2G) Head: 0.933 W/Kg Body: 0.697 W/Kg (3G) (Maximum Scaling SAR = 1.018 W/Kg) simultaneous transmission: 1.129 W/Kg
Performed Location	Attestation of Global Compliance(Shenzhen) Co., Ltd. 2 F, Building 2, No.1-No.4, Chaxi Sanwei Technical Industrial Park, Gushu, Xixiang Street, Bao'an District, Shenzhen, China
Report Template	AGCRT-US-3G/SAR (2013-03-01)

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1. General Information

1.1. EUT Description

General Information	
Product Designation	Smart Phone
Test Model	Galapad 6
Hardware Version	TJ63-MB-V1.0
Software Version	N/A
Device Category	Portable
RF Exposure Environment	Uncontrolled
Antenna Type	Internal
GSM and GPRS	
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
Avg. Burst Power (Max. Output Power)	GSM835: 31.56dBm(32.47dBm- Peak Power) PCS1900: 28.71dBm(29.64dBm-Peak Power)
WCDMA	
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 checked="" 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	0.8dBi
Avg. Burst Power (Max. Output Power)	Band II: 22.62dBm (23.60dBm- Peak Power) Band V: 23.06dBm (23.33dBm- Peak Power)
Bluetooth	
Bluetooth Version	<input type="checkbox"/> V2.0 <input type="checkbox"/> V2.1 <input checked="" type="checkbox"/> V2.1+EDR <input type="checkbox"/> V3.0 <input type="checkbox"/> V3.0+EDR <input type="checkbox"/> V4.0
Operation Frequency	2402~2480MHz
Type of modulation	<input checked="" type="checkbox"/> GFSK <input checked="" type="checkbox"/> Π/4-DQPSK <input checked="" type="checkbox"/> 8-DPSK
Avg. Burst Power	2.31dBm
Antenna Gain	1.2dBi
WIFI	
WIFI Specification	<input type="checkbox"/> 802.11a <input checked="" type="checkbox"/> 802.11b <input checked="" type="checkbox"/> 802.11g <input checked="" type="checkbox"/> 802.11n(20) <input checked="" type="checkbox"/> 802.11n(40)
Operation Frequency	2412~2462MHz
Avg. Burst Power	11b: 10.03 dBm, 11g: 9.02dBm, 11n(20): 8.43dBm, 11n(40): 5.66dBm
Antenna Gain	1.2dBi
Accessories	
Battery	Brand name: Galapad, Sosmart Model No. : ADFSZ-013-TJ63 Voltage and Capacitance: 3.7 V & 3000mAh
Adapter	Brand name: Galapad, Sosmart Model No. : JT-M05100 Input: AC 100-240V, 50-60Hz,150mA Output: DC5.0V, 1A
Earphone	Brand name: N/A Model No. : N/A

Note:

1. The EUT is a model of GSM Portable Mobile Station (MS). It supports GSM/GPRS, BT, WIFI, and support hot spot mode.
2. 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 8960, and test them respectively at U.S. bands

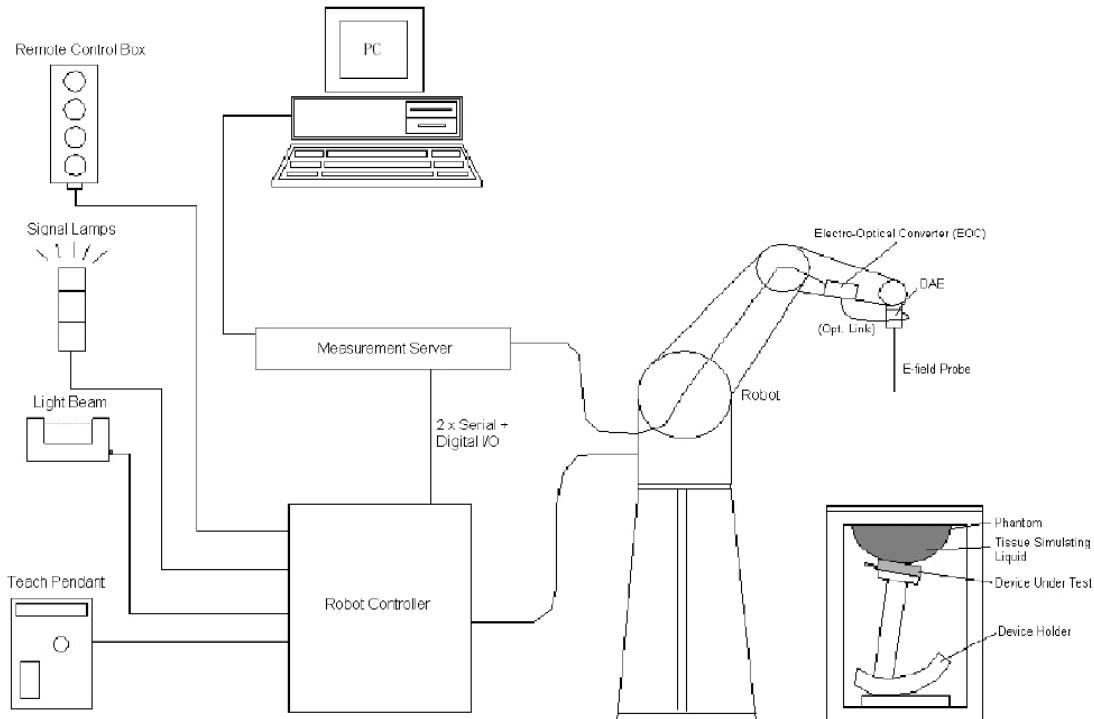
1.3. Test Environment

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 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 10mm² 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/m³ 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.

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

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

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

2.2. COMOSAR E-Field Probe

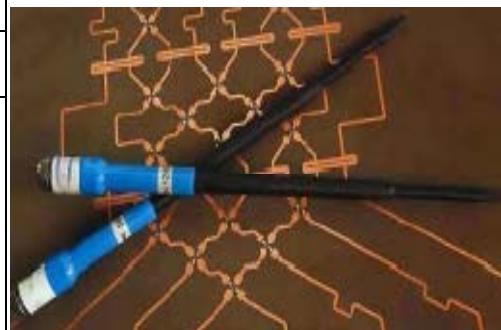
The SAR measurement is conducted with the dissymmetric probe manufactured by SATIMO.

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.

SATIMO 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	EP165
Manufacture	SATIMO
Frequency	0.03GHz-3 GHz Linearity: $\pm 0.2\text{dB}$ (30 MHz-3 GHz)
Dynamic Range	0.01W/Kg-100W/Kg Linearity: $\pm 0.2\text{dB}$
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
Application	High precision dosimetric measurements in any exposure scenario (e.g., very strong gradient fields). Only probe which enables compliance testing for frequencies up to 3 GHz with precision of better 30%.



2.3. Robot

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

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

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

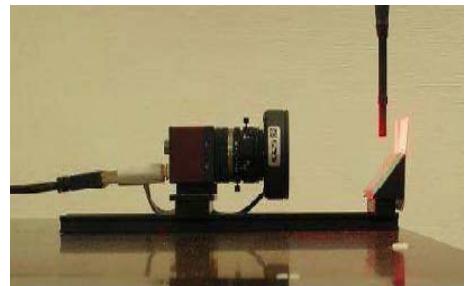


2.4. Video Positioning System

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.

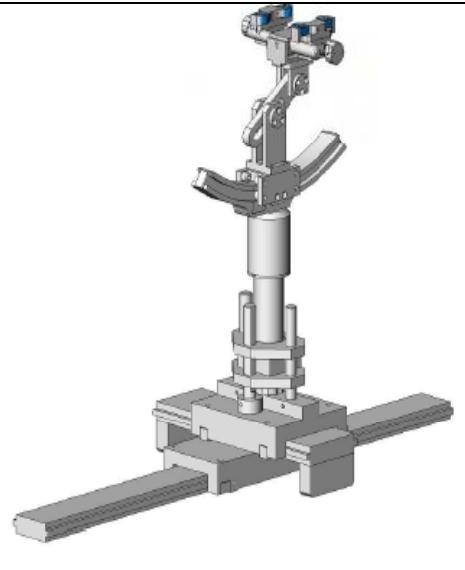


2.5. Device Holder

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	2450MHz	2450MHz
(% Weight)	Head	Body	Head	Body	Head	Body
Water	40.45	52.4	54.90	40.5	46.7	73.2
Salt	1.42	1.40	0.18	0.50	0.00	0.04
Sugar	57.6	45.0	0.00	58.0	0.00	0.00
HEC	0.40	1.00	0.00	0.50	0.00	0.00
Preventol	0.10	0.20	0.00	0.50	0.00	0.00
DGBE	0.00	0.00	44.92	0.00	53.3	26.7
TWEEN	0.00	0.00	0.00	0.00	0.00	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 .

Tissue Stimulant Measurement for GSM 835					
Frequency (MHz)	Parts	Description	Dielectric Parameters		Tissue Temp [°C]
835MHz	Head	Reference result ±5% window	ε _r 41.50 39.425-43.575	δ[s/m] 0.90 0.855-0.945	N/A
		Sep.12, 2013	39.97	0.91	21
835MHz	Body	Reference result ±5% window	ε _r 55.20 52.44-57.96	δ[s/m] 0.97 0.9215-1.0185	N/A
		Sep.12, 2013	53.26	0.95	21

Tissue Stimulant Measurement for PCS 1900					
Frequency (MHz)	Parts	Description	Dielectric Parameters		Tissue Temp [°C]
1900MHz	Head	Reference result ±5% window	ε _r 40.00 38.00-42.00	δ[s/m] 1.40 1.33-1.47	N/A
		Sep.12, 2013	40.33	1.38	21
1900MHz	Body	Reference result ±5% window	ε _r 53.30 50.635-55.965	δ[s/m] 1.52 1.444-1.596	N/A
		Sep.12, 2013	54.12	1.53	21

Tissue Stimulant Measurement for 2450					
Frequency (MHz)	Parts	Description	Dielectric Parameters		Tissue Temp [°C]
2450MHz	Head	Reference result ±5% window	ε _r 39.2 37.24-41.16	δ[s/m] 1.80 1.71-1.89	N/A
		Sep.12, 2013	40.57	1.78	21
	Body	Reference result ±5% window	ε _r 52.7 50.065-55.335	δ[s/m] 1.95 1.8525-2.0475	N/A
		Sep.12, 2013	53.46	1.89	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	
	ϵ_r	σ (S/m)	ϵ_r	σ (S/m)
300	45.3	0.87	58.2	0.92
450	43.5	0.87	56.7	0.94
835	41.5	0.90	55.2	0.97
900	41.5	0.97	55.0	1.05
915	41.5	1.01	55.0	1.06
1450	40.5	1.20	54.0	1.30
1610	40.3	1.29	53.8	1.40
1800 – 2000	40.0	1.40	53.3	1.52
2450	39.2	1.80	52.7	1.95
3000	38.5	2.40	52.0	2.73
5800	35.3	5.27	48.2	6.00

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

4. SAR Measurement Procedure

4.1. SAR System Validation

4.1.1. Validation Dipoles

	<p>The dipoles used is based on the IEEE-1528 standard, and is complied with mechanical and electrical specifications in line with the requirements of both IEEE and FCC Supplement C. the table below provides details for the mechanical and electrical Specifications for the dipoles.</p>
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Frequency	L (mm)	h (mm)	d (mm)
900 MHz	149	83.3	3.6
1900MHz	68	39.5	3.6
2450MHz	51.5	30.4	3.6

4.1.2. Validation Result

System Performance Check at 835 MHz &1900MHz for Head				
Validation Kit: SN 46/11DIP 0G900-185				
Frequency [MHz]	Description	SAR [w/kg] 1g	SAR [w/kg] 10g	Tissue Temp.[°C]
835MHz	Reference result ± 10% window	10.9 9.81 to 11.99	6.99 6.29 to 7.69	N/A
	Sep.12, 2013	10.73	6.46	21.0
Validation Kit: SN 46/11DIP 1G900-187				
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.12, 2013	42.65	22.43	21.0
Validation Kit: SN 46/11DIP 2G450-189				
Frequency [MHz]	Description	SAR [w/kg] 1g	SAR [w/kg] 10g	Tissue Temp.[°C]
2450 MHz	Reference result ± 10% window	52.4 47.16 to 57.64	24.0 21.6 to 26.4	N/A
	Sep.12, 2013	49.74	24.36	21
Note: All SAR values are normalized to 1W forward power.				

4.2. SAR Measurement Procedure

The COMOSAR calculates SAR using the following equation,

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

σ : represents the simulated tissue conductivity

ρ : 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 1mm²) 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 1mm³).

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 04/13 EP165	01/31/2013	01/30/2014
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	02/28/2013	02/27/2014
Comm Tester	Agilent-8960	GB46310822	10/22/2012	10/21/2013
Multimeter	Keithley 2000	1188656	02/28/2013	02/27/2014
Dipole	SATIMO SID900	SN46/11 DIP 0G900-185	12/09/2011	12/08/2013
Dipole	SATIMO SID1900	SN46/11 DIP 1G900-187	12/09/2011	12/08/2013
Dipole	SATIMO SID2450	SN46/11 DIP 2G450-189	12/09/2011	12/08/2013
Amplifier	Aethercomm	SN 046	12/08/2012	12/07/2013
Signal Generator	Agilent-E4421B	MY43351603	05/13/2013	05/12/2014
Power Probe	NRP-Z23	US38261498	02/28/2013	02/27/2014
SPECTRUM ANALYZER	Agilent/E4440A	MY44303916	10/22/2012	10/21/2013
Power Attenuator	BED	DLA-5W	07/30/2013	07/29/2014
Network Analyzer	Rhode & Schwarz ZVA	SN100132	02/28/2013	02/27/2014

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 30 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) Ve ff
Measurement System									
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	∞
Dipole									
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	∞
Phantom and Tissue Parameters									
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				16.18544	15.8592	

8. Conducted Power Measurement

GSM BAND

Mode	Frequency(MHz)	Avg. Burst Power(dBm)	Duty cycle Factor(dBm)	Frame Power(dBm)
Maximum Power <1>				
GSM 835	824.2	31.56	-9	22.56
	836.6	31.49	-9	22.49
	848.8	31.45	-9	22.45
GPRS 835 (1 Slot)	824.2	31.47	-9	22.47
	836.6	31.42	-9	22.42
	848.8	31.31	-9	22.31
GPRS 835 (2 Slot)	824.2	28.52	-6	22.52
	836.6	28.46	-6	22.46
	848.8	28.41	-6	22.41
GPRS 835 (3 Slot)	824.2	26.37	-4.26	22.11
	836.6	26.44	-4.26	22.18
	848.8	26.63	-4.26	22.37
GPRS 835 (4 Slot)	824.2	25.68	-3	22.68
	836.6	25.56	-3	22.56
	848.8	25.51	-3	22.51
PCS1900	1850.2	28.71	-9	19.71
	1880	28.66	-9	19.66
	1909.8	28.52	-9	19.52
GPRS1900 (1 Slot)	1850.2	28.62	-9	19.62
	1880	28.52	-9	19.52
	1909.8	28.48	-9	19.48
GPRS1900 (2 Slot)	1850.2	25.73	-6	19.73
	1880	25.65	-6	19.65
	1909.8	25.61	-6	19.61
GPRS1900 (3 Slot)	1850.2	24.72	-4.26	20.46
	1880	24.63	-4.26	20.37
	1909.8	24.55	-4.26	20.29
GPRS1900 (4 Slot)	1850.2	22.64	-3	19.64
	1880	22.72	-3	19.72
	1909.8	22.63	-3	19.63
Maximum Power <2>				
GSM 835	824.2	31.49	-9	22.49
PCS1900	1850.2	28.66	-9	19.66

Note 1:

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

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

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

Frame Power = Max burst power (3 Up Slot) - 4.26 dB

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

UMTS BAND II

Mode	Frequency (MHz)	Avg.Burst Power
WCDMA 1900 RMC	1852.4	22.53
	1880	22.62
	1907.6	22.58
WCDMA 1900 AMR	1852.4	22.19
	1880	22.27
	1907.6	22.07
HSDPA Subtest 1	1852.4	22.17
	1880	22.07
	1907.6	22.31
HSDPA Subtest 2	1852.4	22.36
	1880	22.32
	1907.6	22.35
HSDPA Subtest 3	1852.4	22.31
	1880	22.35
	1907.6	22.47
HSDPA Subtest 4	1852.4	22.36
	1880	22.28
	1907.6	22.3
HSUPA Subtest 1	1852.4	22.29
	1880	22.21
	1907.6	22.18
HSUPA Subtest 2	1852.4	22.22
	1880	22.12
	1907.6	22.27
HSUPA Subtest 3	1852.4	22.25
	1880	22.33
	1907.6	22.31
HSUPA Subtest 4	1852.4	22.38
	1880	22.21
	1907.6	22.19
HSUPA Subtest 5	1852.4	22.63
	1880	22.49
	1907.6	22.32

UMTS BAND V

Mode	Frequency (MHz)	Avg.Burst Power
WCDMA 850 RMC	826.4	23.06
	835.0	22.99
	846.6	23.04
WCDMA 850 AMR	826.4	22.99
	835.0	21.95
	846.6	21.91
HSDPA Subtest 1	826.4	21.95
	835.0	22.05
	846.6	22.32
HSDPA Subtest 2	826.4	22.26
	835.0	22.30
	846.6	22.26
HSDPA Subtest 3	826.4	22.22
	835.0	22.16
	846.6	22.37
HSDPA Subtest 4	826.4	22.34
	835.0	22.12
	846.6	22.21
HSUPA Subtest 1	826.4	22.14
	835.0	22.03
	846.6	22.06
HSUPA Subtest 2	826.4	22.04
	835.0	21.99
	846.6	22.04
HSUPA Subtest 3	826.4	21.94
	835.0	21.92
	846.6	21.9
HSUPA Subtest 4	826.4	21.95
	835.0	21.98
	846.6	22.00
HSUPA Subtest 5	826.4	22.12
	835.0	22.21
	846.6	22.27

WIFI

Mode	Data Rate (Mbps)	Channel	Frequency(MHz)	Avg. Burst Power(dBm)
802.11b	1	01	2412	9.85
		06	2437	9.95
		11	2462	10.03
802.11g	6	01	2412	8.88
		06	2437	8.96
		11	2462	9.02
802.11n(20)	6.5	01	2412	8.25
		06	2437	8.35
		11	2462	8.43
802.11n(40)	13.5	03	2422	5.57
		06	2437	5.53
		09	2452	5.66

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

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

UE Transmit Channel Configuration	CM(db)	MPR(db)
For all combinations of ,DPDCH,DPCCH HS-DPDCH,E-DPDCH and E-DPCCH	0≤ CM≤3.5	MAX(CM-1,0)
Note: CM=1 for $\beta_d/\beta_d=12/15$, $\beta_{hs}/\beta_c=24/15$.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 5mm from the phantom; the overall device length and width(16.7cmx8.8cm) are >9cmx5cm, Hotspot mode with a test separation distance of 10mm.

9.1.2. Operation Mode

- According to KDB 447498 D01 v05r01 ,for each exposure position, if the highest 1-g SAR is $\leq 0.8 \text{ W/kg}$, testing for low and high channel is optional.
- Per KDB 865664 D01 v01r01,for each frequency band, if the measured SAR is $\geq 0.8 \text{ W/Kg}$, testing for repeated SAR measurement is required , that the highest measured SAR is only to be tested .
- Body-worn exposure conditions are intended to voice call operations, therefore GSM voice call mode is selected to be test.
- According to KDB 648474 D04 v01r01,when the reported SAR for a body-worn accessory measured without a headset connected to the handset is $\leq 1.2 \text{ W/Kg}$, SAR testing with a headset connected is not required.
- According to 941225 D06, when the overall device length and width are >9cmx5cm, Hotspot mode with a test separation distance of 10mm. For device with form factors smaller than 9cmx5cm, Hotspot mode with a test separation distance of 5mm. Body SAR was also performed with the headset attached and without.
- According to 248227 D01, SAR is not required for 802.11g channels when the maximum average output power is less than 1/4dB higher than measured on the corresponding 802.11b channels.
- Maximum Scaling SAR in order to calculate the Maximum SAR values to test under the standard Peak Power, Calculation method is as follows:
Maximum Scaling SAR = tested SAR (Max.) \times (GSM standard Peak Power (mw)/ tested Max. Peak Power (mw))

9.1.3. SAR Test Results Summary

SAR MEASUREMENT												
Ambient Temperature (°C) : 21 ± 2					Relative Humidity (%): 55							
Liquid Temperature (°C) : 21 ± 2					Depth of Liquid (cm):>15							
Product: Smart Phone												
Test Mode: PCS1900 with GMSK modulation												
Configuration			Antenna Position	Frequency		Power Drift (<±5%)	SAR (1g) (W/kg)	Limit (W/kg)				
SIM	Position	Status		channel	MHz							
<1>	Left Head	Cheek	Fixed	512	1850.2	--	--	--				
				661	1880.0	-0.15	0.264	1.6				
				810	1909.8	--	--	--				
		Tilted	Fixed	512	1850.2	--	--	--				
				661	1880.0	-0.42	0.205	1.6				
				810	1909.8	--	--	--				
	Right Head	Cheek	Fixed	512	1850.2	--	--	--				
				661	1880.0	-0.33	0.406	1.6				
				810	1909.8	--	--	--				
		Tilted	Fixed	512	1850.2	--	--	--				
				661	1880.0	0.15	0.295	1.6				
				810	1909.8	--	--	--				
<2>	Right	Cheek	Fixed	661	1880.0	0.27	0.406	1.6				

SAR MEASUREMENT											
Ambient Temperature (°C) : 21 ± 2				Relative Humidity (%): 55							
Liquid Temperature (°C) : 21 ± 2				Depth of Liquid (cm):>15							
Product: Smart Phone											
Test Mode: WCDMA Band II with QPSK modulation											
Configuration			Antenna Position	Frequency		Power Drift (<±5%)	SAR (1g) (W/kg)	Limit (W/kg)			
SIM	Position	Status		channel	MHz						
<1>	Left Head	Cheek	Fixed	9262	1852.4	--	--	--			
				9400	1880	-0.14	0.654	1.6			
				9538	1907.6	--	--	--			
		Tilted	Fixed	9262	1852.4	--	--	--			
				9400	1880	-0.06	0.216	1.6			
				9538	1907.6	--	--	--			
	Right Head	Cheek	Fixed	9262	1852.4	1.25	0.864	1.6			
				9400	1880	0.63	0.933	1.6			
				9538	1907.6	0.77	0.882	1.6			
		Tilted	Fixed	9262	1852.4	--	--	--			
				9400	1880	-0.45	0.203	1.6			
				9538	1907.6	--	--	--			

SAR MEASUREMENT										
Ambient Temperature (°C) : 21 ± 2			Relative Humidity (%): 55							
Liquid Temperature (°C) : 21 ± 2			Depth of Liquid (cm):>15							
Product: Smart Phone										
Test Mode: WCDMA Band V with QPSK modulation										
Configuration			Antenna Position	Frequency		Power Drift (<±5%)				
SIM	Position	Status		channel	MHz					
<1>	Left Head	Cheek	Fixed	4132	826.4	--	--	--		
				4182	835.0	-0.01	0.344	1.6		
				4233	846.6	--	--	--		
		Tilted	Fixed	4132	826.4	--	--	--		
				4182	835.0	-0.63	0.322	1.6		
				4233	846.6	--	--	--		
	Right Head	Cheek	Fixed	4132	826.4	--	--	--		
				4182	835.0	-0.45	0.428	1.6		
				4233	846.6	--	--	--		
		Tilted	Fixed	4132	826.4	--	--	--		
				4182	835.0	0.28	0.365	1.6		
				4233	846.6	--	--	--		

SAR MEASUREMENT											
Ambient Temperature (°C) : 21 ± 2				Relative Humidity (%): 55							
Liquid Temperature (°C) : 21 ± 2				Depth of Liquid (cm):>15							
Product: Smart Phone											
Test Mode: 802.11b											
Configuration			Antenna Position	Frequency		Power Drift (<±5%)	SAR (1g) (W/kg)	Limit (W/kg)			
Test Mode	Position	Status		channel	MHz						
802.11b	Left Head	Cheek	Fixed	1	2412	--	--	--			
				6	2437	-0.05	0.153	1.6			
				11	2462	--	--	--			
		Tilted	Fixed	1	2412	--	--	--			
				6	2437	-0.45	0.073	1.6			
				11	2462	--	--	--			
	Right Head	Cheek	Fixed	1	2412	--	--	--			
				6	2437	-0.63	0.147	1.6			
				11	2462	--	--	--			
		Tilted	Fixed	1	2412	--	--	--			
				6	2437	0.27	0.124	1.6			
				11	2462	--	--	--			

SAR MEASUREMENT											
Ambient Temperature (°C) : 21 ± 2				Relative Humidity (%): 55							
Liquid Temperature (°C) : 21 ± 2				Depth of Liquid (cm):>15							
Product: Smart Phone											
Test Mode: 802.11b											
Configuration			Antenna Position	Frequency		Power Drift (<±5%)	SAR (1g) (W/kg)				
Test Mode	Position	Status		channel	MHz			Limit (W/kg)			
802.11b	Body Back	MS	Fixed	1	2412	--	--				
				6	2437	0.02	0.207				
				11	2462	--	--				
	Body front	MS	Fixed	1	2412	--	--				
				6	2437	-0.13	0.095				
				11	2462	--	--				

Note1: when the 1-g SAR is ≤ 0.8 W/kg, testing for low and high channel is optional.
Note2: IEEE802.11b support DBPSK, DQPSK, CCK modulation mode, IEEE802.11g/n support OFDM, 16-QAM, 64-QAM modulation mode.

SAR MEASUREMENT											
Ambient Temperature (°C) : 21 ± 2				Relative Humidity (%): 55							
Liquid Temperature (°C) : 21 ± 2				Depth of Liquid (cm):>15							
Product: Smart Phone											
Test Mode: Hotspot											
Configuration			Antenna Position	Frequency		Power Drift (<±5%)	SAR (1g) (W/kg)				
Test Mode	Position	Status		channel	MHz			Limit (W/kg)			
Hotspot	Left Head	Cheek	Fixed	1	2412	--	--				
				6	2437	-0.05	0.127				
				11	2462	--	--				
		Tilted	Fixed	1	2412	--	--				
				6	2437	0.13	0.113				
				11	2462	--	--				
	Right Head	Cheek	Fixed	1	2412	--	--				
				6	2437	-0.37	0.196				
				11	2462	--	--				
		Tilted	Fixed	1	2412	--	--				
				6	2437	0.46	0.099				
				11	2462	--	--				

SAR MEASUREMENT											
Ambient Temperature (°C) : 21 ± 2				Relative Humidity (%): 55							
Liquid Temperature (°C) : 21 ± 2				Depth of Liquid (cm):>15							
Product: Smart Phone											
Test Mode: Hotspot											
Configuration			Antenna Position	Frequency		Power Drift (<±5%)	SAR (1g) (W/kg)				
Test Mode	Position	Status		channel	MHz						
Hotspot	Body Back	MS	Fixed	1	2412	--	--				
				6	2437	0.02	0.244				
				11	2462	--	--				
	Body front	MS	Fixed	1	2412	--	--				
				6	2437	-1.13	0.164				
				11	2462	--	--				

Simultaneous Multi-band Transmission Evaluation:

Position	Simultaneous state
Head	1.WWAN(voice)+WLAN 2.4GHz band
	2.WWAN(voice)+Bluetooth
	3.WWAN(voice)+ HOTSPOT 2.4GHz band
Body	4. WWAN(voice)+WLAN 2.4GHz band
	5. WWAN(voice)+Bluetooth
	6.WWAN(voice)+ HOTSPOT 2.4GHz band

NOTE:

1. WLAN and BT share the same antenna, and cannot transmit simultaneously.
2. Simultaneous with every transmitter must be the same test position.
3. Based upon KDB 447498 D01 v05, BT SAR is excluded as below table.
4. Based upon KDB 447498 D01 v05, for handsets the test separation distance is determined by the smallest distance between the outer surface of the device and the user; which is 0mm for head SAR AND 5mm for body-worn SAR.
5. If the test separation distance is <5mm, 5mm is used for excluded SAR calculation.
6. For minimum test separation distance \leq 50mm, Bluetooth standalone SAR is excluded according to $[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm}) \cdot (\sqrt{f(\text{GHz})} / x)] \leq 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR
7. KDB 447498 / 4.3.2 (2) when standalone SAR test exclusion applies to an antenna that transmits simultaneously with other antennas, the standalone SAR must be estimated according to following to determine simultaneous transmission SAR test exclusion:
 - a) $(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm}) \cdot (\sqrt{f(\text{GHz})} / x) \text{ W/kg}$ for test separation distances $\leq 50 \text{ mm}$; Where $x = 7.5$ for 1-g SAR, and $x = 18.75$ for 10-g SAR.
 - b) 0.4 W/Kg for 1-g SAR and 1.0 W/Kg for 10-g SAR, when the separation distance is $>50\text{mm}$.

		Maximum Average Power		Antenna to user (mm)	SAR exclusion threshold (mW)	SAR testing required (Yes/No)	Head (0mm gap)	Body (5mm gap)
		dBm	mW					
BT	Head	2.31	1.702	5	10	NO	0.0710 W/kg	0.0710 W/kg
	Body			5	10	NO		

Maximum test results (WWAN) with BT and WIFI/ HOTSPOT Simultaneous Transmission SAR:

BT: Head (0 cm gap): 0.0710 W/kg and Body (0.5 cm gap): 0.0710 W/kg

Head (WWAN (voice) +BT): 0.933 W/kg + 0.0710 W/kg = 1.004 W/kg
 Body (WWAN (voice) +BT): 0.697 W/kg + 0.0710 W/kg = 0.768 W/kg

HOTSPOT

Head					
Conditions (SAR1+SAR2)	Position	Max. SAR1	Max. SAR2	SAR Summation	Limit (W/kg)
GSM835 + Hotspot (voice)	Right Cheek	0.212	0.196	0.408	1.6
PCS1900 + Hotspot (voice)	Right Cheek	0.406	0.196	0.602	1.6
WCDMA Band II + Hotspot (voice)	Right Cheek	0.933	0.196	1.129	1.6
WCDMA Band V + Hotspot (voice)	Right Cheek	0.428	0.196	0.624	1.6
Body					
Conditions (SAR1+SAR2)	Position	Max. SAR1	Max. SAR2	SAR Summation	Limit (W/kg)
GSM835 + Hotspot (voice)	Body Back (MS)	0.225	0.244	0.469	1.6
PCS1900 + Hotspot (voice)	Body Back (MS)	0.266	0.244	0.510	1.6
WCDMA Band II + Hotspot (voice)	RMC (towards grounds)	0.614	0.244	0.858	1.6
WCDMA Band V + Hotspot (voice)	RMC (towards grounds)	0.697	0.244	0.941	1.6

Appendix A. SAR System Validation Data

Test Laboratory: AGC Lab

Date: Sep.12, 2013

System Check Head 835 MHz

DUT: Dipole 900 MHz Type: SID 900

Communication System CW; Communication System Band: D835 (835.0 MHz); Duty Cycle: 1:1; Conv.F=5.30

Frequency: 835 MHz; Medium parameters used: $f = 835$ MHz; $\sigma=0.91$ mho/m; $\epsilon_r =39.97$; $\rho= 1000$ kg/m³ ;

Phantom section: Flat Section ; Input Power=10dBm

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

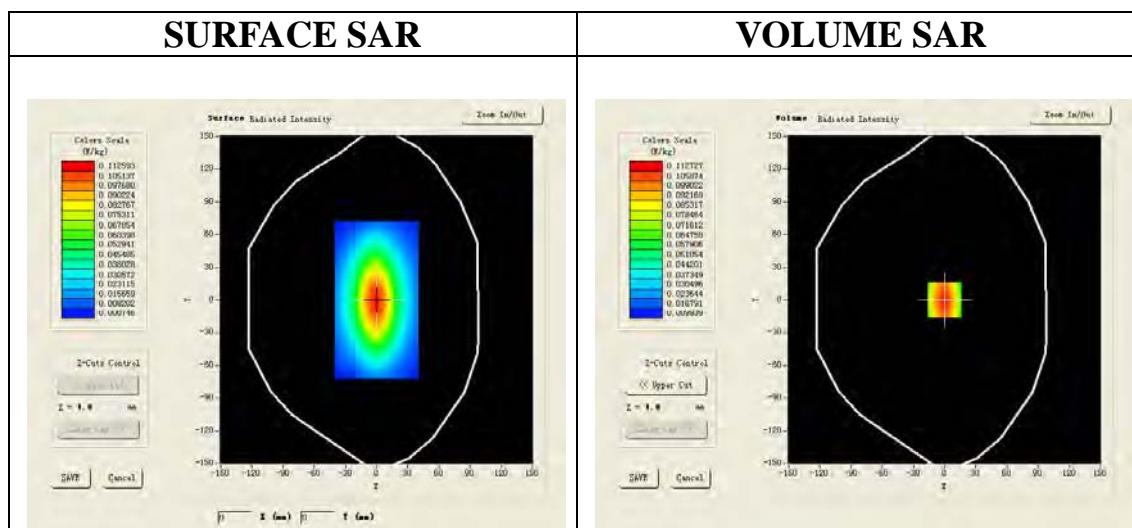
SATIMO Configuration:

Probe: EP165; Calibrated: 01/31/2013

- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: Flat Phantom; Type: Elliptical Phantom
- Measurement SW: OpenSAR V4_02_01

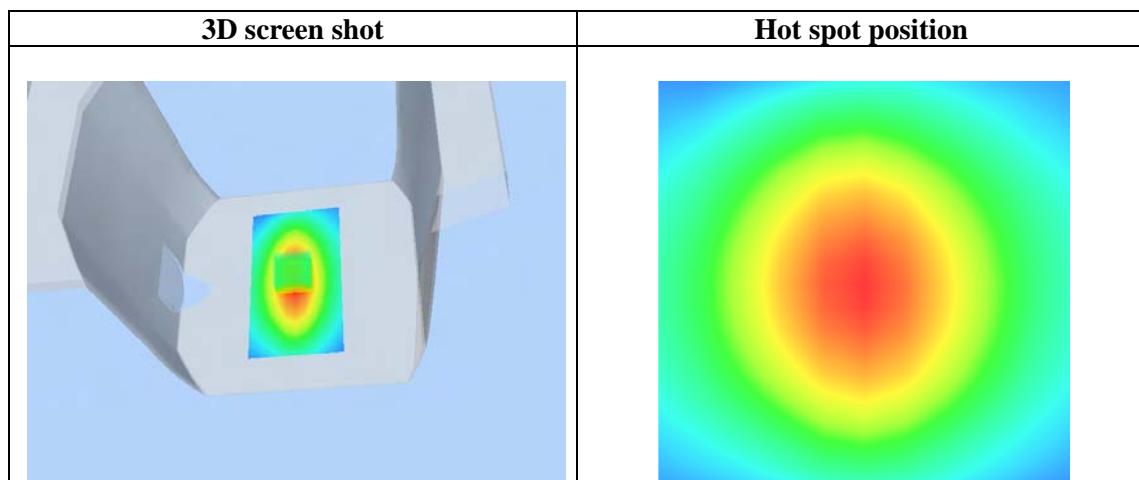
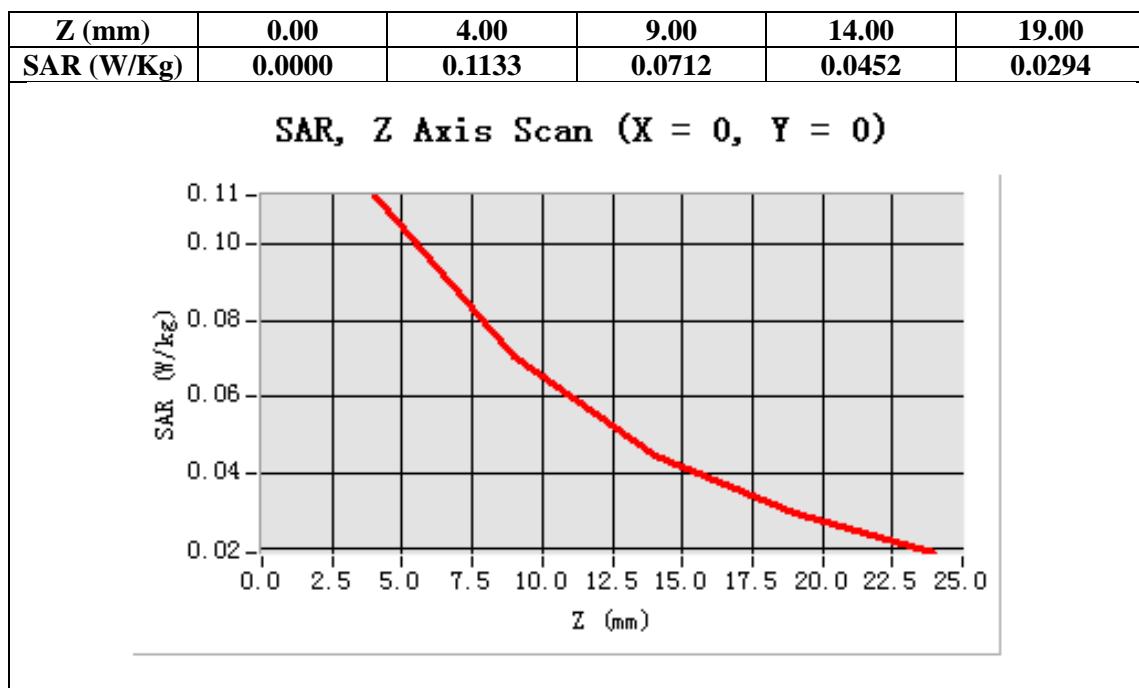
Configuration/System Check GSM 835 Head/Area Scan: Measurement grid: dx=8mm,dy=8mm

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



Maximum location: X=0.00, Y=0.00

SAR 10g (W/Kg)	0.064627
SAR 1g (W/Kg)	0.107315



Test Laboratory: AGC Lab
System Check Head 1900MHz
DUT: Dipole 1900 MHz; Type: SID 1900

Date: Sep.12, 2013

Communication System: CW; Communication System Band: D1900 (1900.0 MHz); Duty Cycle:1:1; Conv.F=4.72
Frequency: 1900 MHz; Medium parameters used: $f = 1900$ MHz; $\sigma=1.38$ mho/m; $\epsilon_r =40.33$; $\rho= 1000$ kg/m³ ;
Phantom section: Flat Section ; Input Power=10dBm
Ambient temperature (°C): 21, Liquid temperature (°C): 21

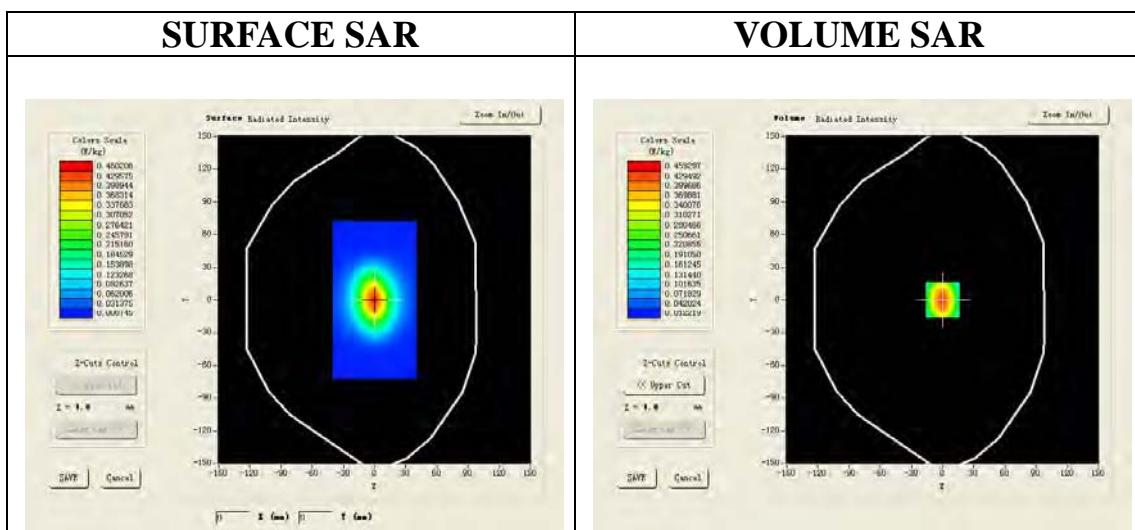
SATIMO Configuration:

Probe: EP165; Calibrated: 01/31/2013

- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: Flat Phantom; Type: Elliptical Phantom
- Measurement SW: OpenSAR V4_02_01

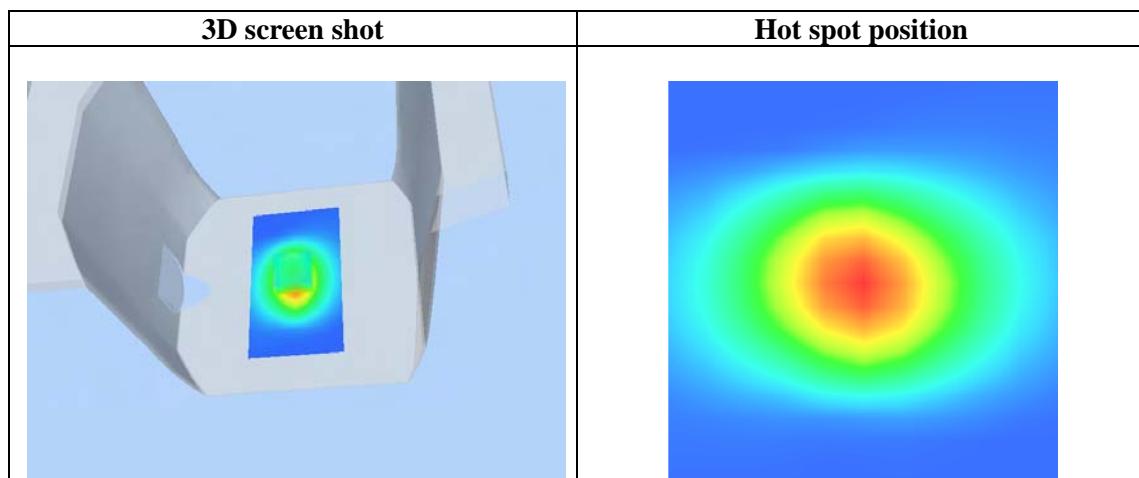
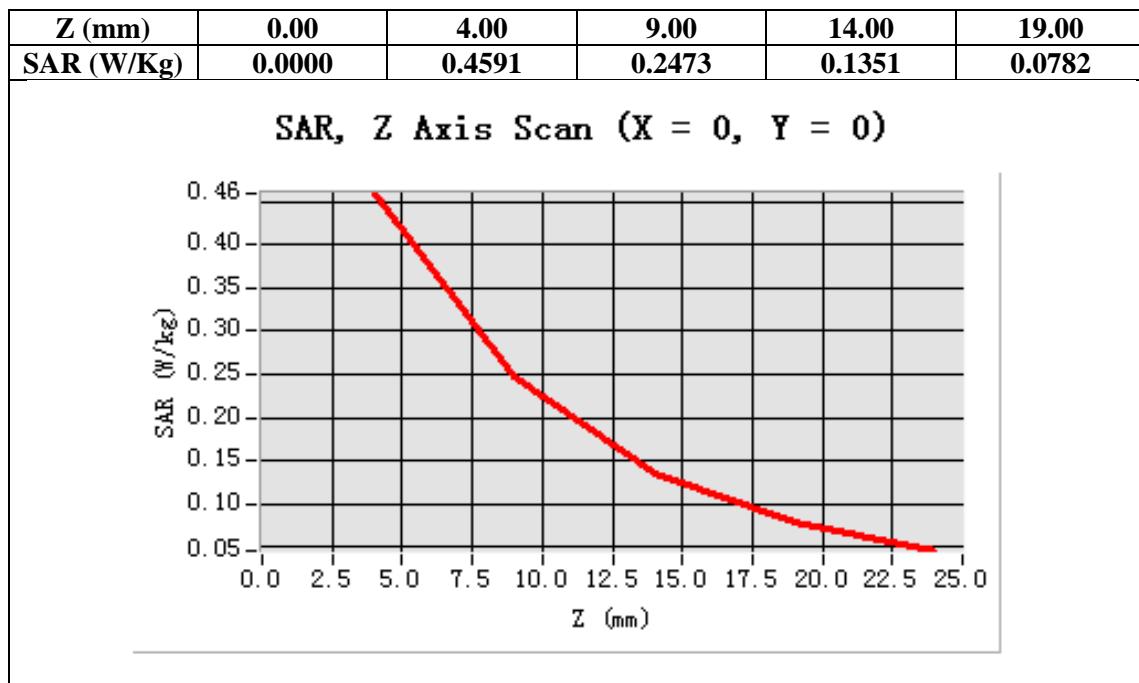
Configuration/System Check PCS1900 Head/Area Scan: Measurement grid: dx=8mm,dy=8mm

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



Maximum location: X=0.00, Y=0.00

SAR 10g (W/Kg)	0.224312
SAR 1g (W/Kg)	0.426457



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

Date: Sep.12, 2013

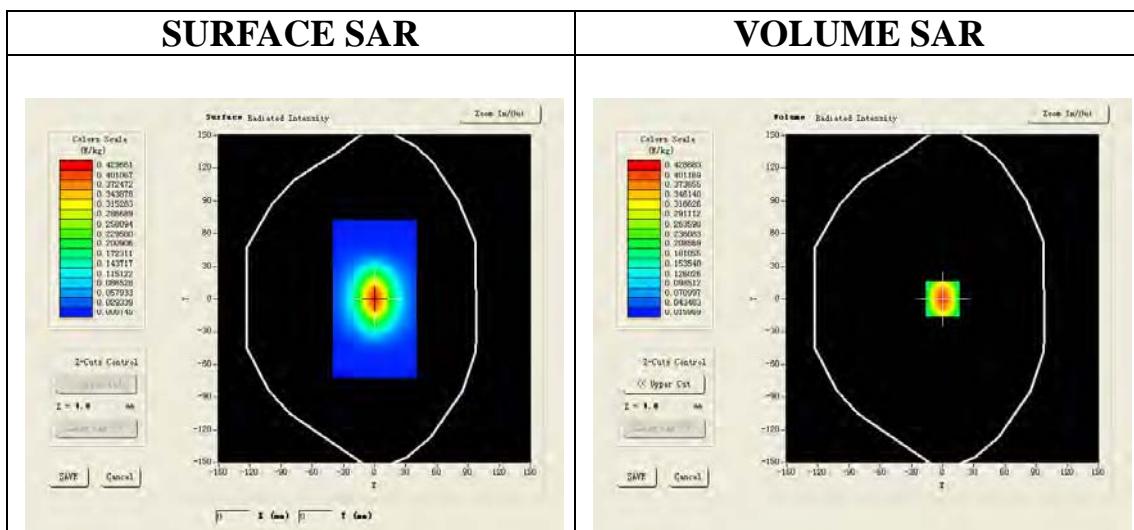
Communication System: CW; Communication System Band: D2450 (2450.0 MHz); Duty Cycle: 1:1; Conv.F=4.19
Frequency: 2450 MHz; Medium parameters used: $f = 2450$ MHz; $\sigma = 1.78$ mho/m; $\epsilon_r = 40.57$; $p = 1000$ kg/m³ ;
Phantom section: Flat Section; Input Power=10dBm
Ambient temperature (°C): 21, Liquid temperature (°C): 21

SATIMO Configuration:

- Probe: EP165; Calibrated: 01/31/2013
- Sensor-Surface: 4mm (Mechanical Surface Detection)
 - Phantom: Flat Phantom; Type: Elliptical Phantom
 - Measurement SW: OpenSAR V4_02_01

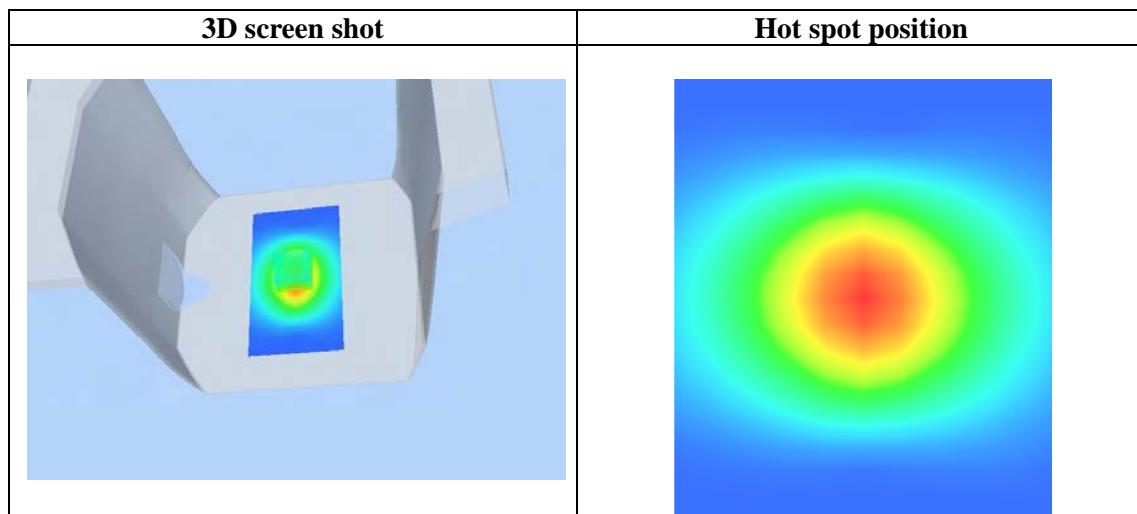
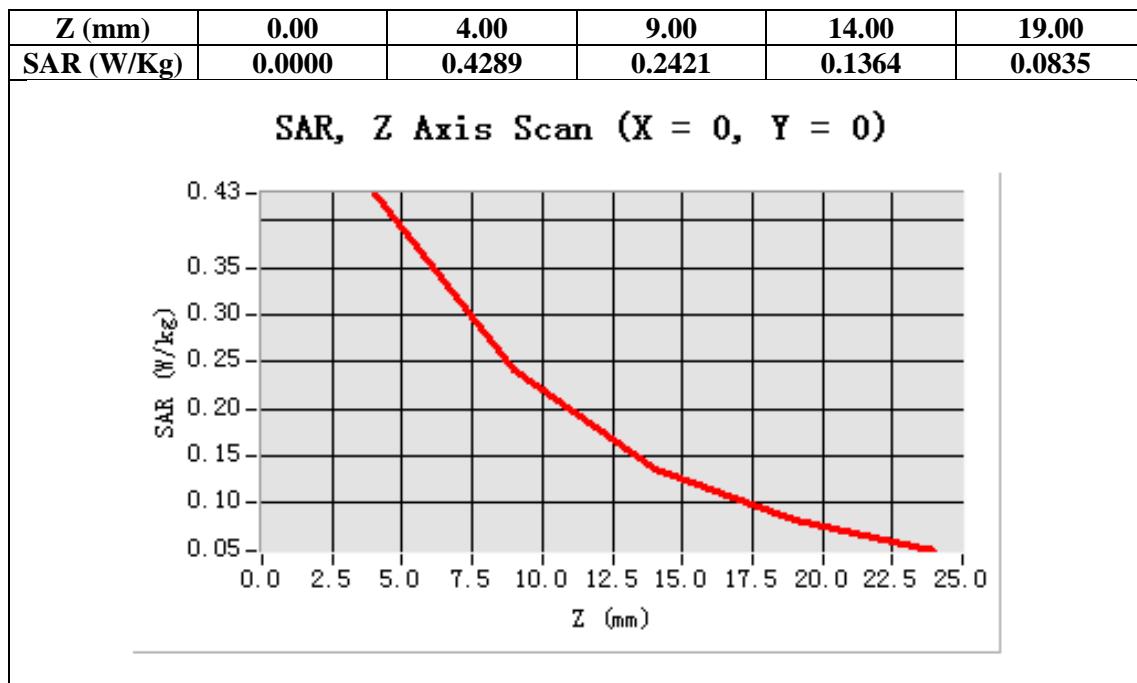
Configuration/System Check 2450 MHz Head/Area Scan: Measurement grid: dx=8mm,dy=8mm

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



Maximum location: X=0.00, Y=0.00

SAR 10g (W/Kg)	0.243648
SAR 1g (W/Kg)	0.497412



Appendix B. SAR measurement Data

Test Laboratory: AGC Lab

Date: Sep.12, 2013

GSM 835 Mid-Touch-Left <SIM 1>

DUT: Smart Phone; **Type:** Galapad 6

Communication System: Generic GSM; Communication System Band: GSM 835; Duty Cycle: 1:8.3; Conv.F=5.30

Frequency: 836.6 MHz; Medium parameters used: $f = 835$ MHz; $\sigma = 0.91$ mho/m; $\epsilon_r = 39.97$; $\rho = 1000$ kg/m³ ;

Phantom section: Left Section

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

SATIMO Configuration:

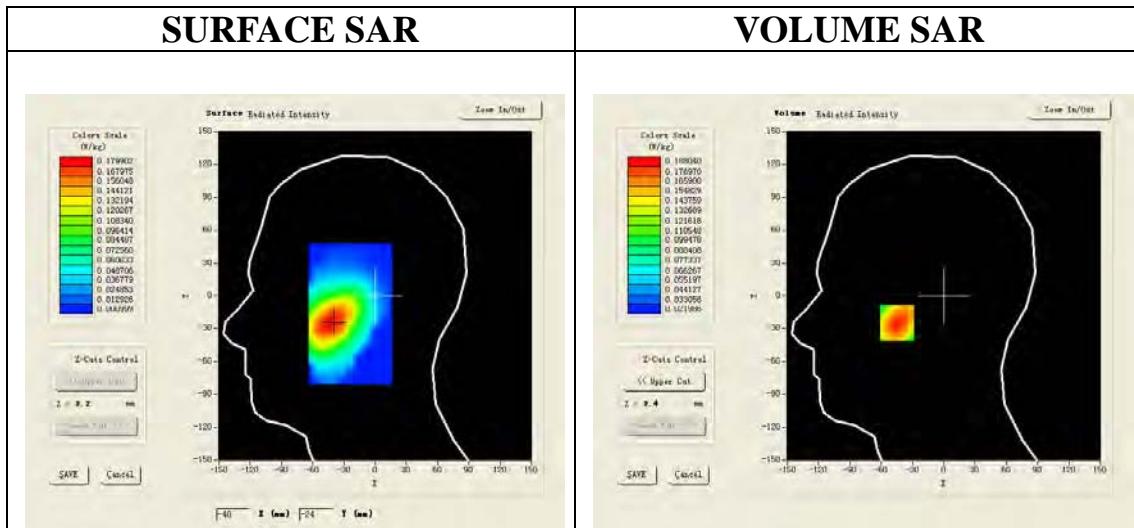
Probe: EP165; Calibrated: 01/31/2013

- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: Flat Phantom; Type: Elliptical Phantom
- Measurement SW: OpenSAR V4_02_01

Configuration/GSM 835 Mid-Touch-Left/Area Scan (6x8x1): Measurement grid: dx=8mm, dy=8mm

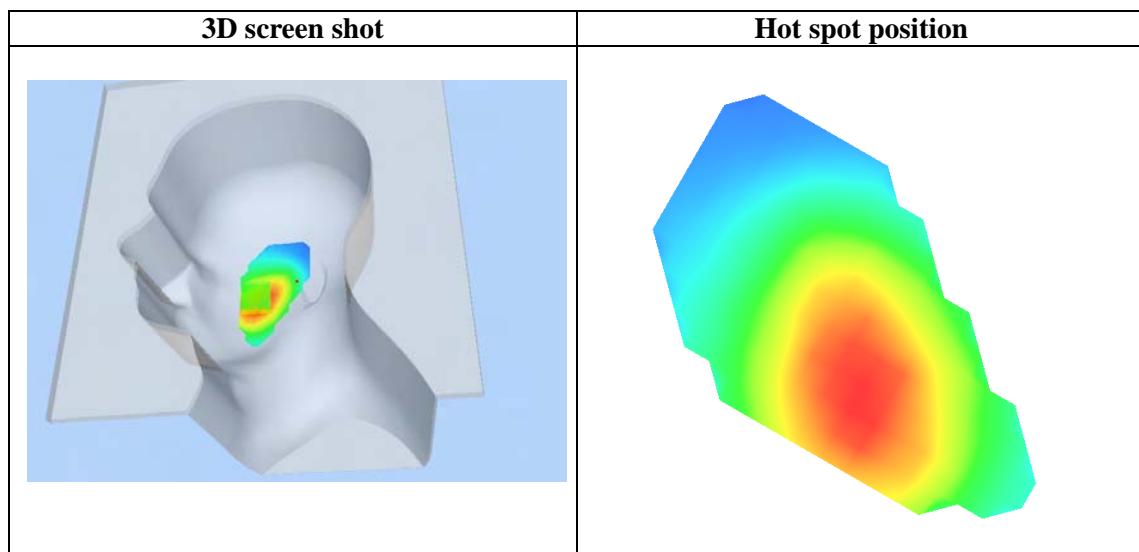
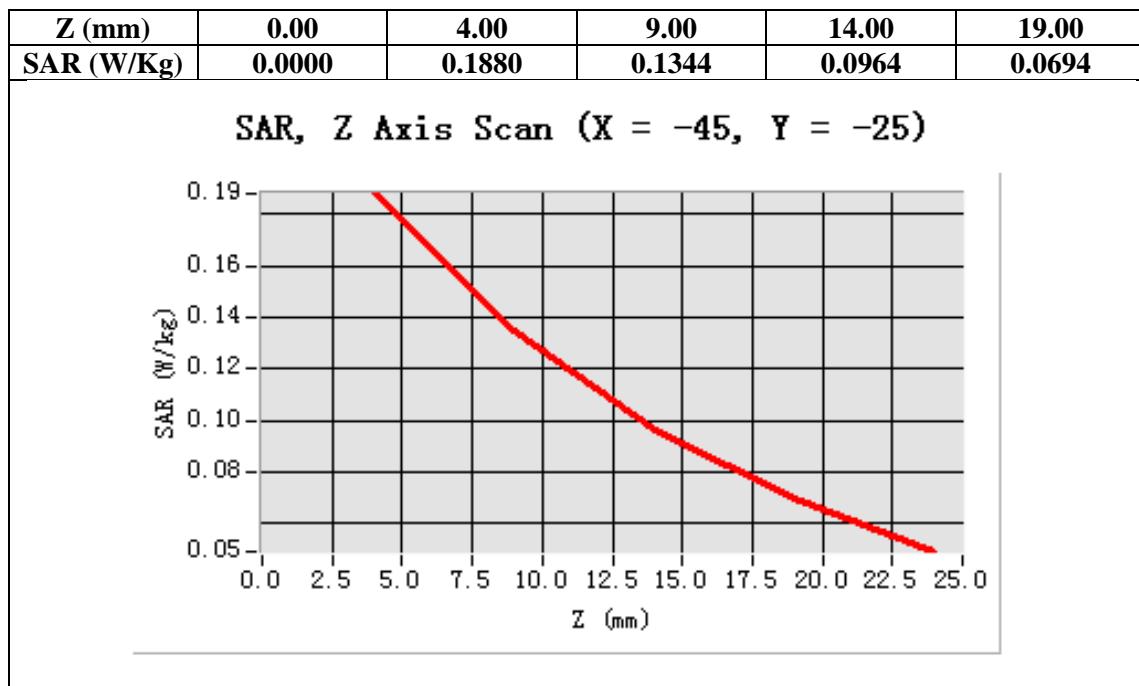
Configuration/GSM 835 Mid-Touch-Left/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Area Scan	sam_direct_droit2_surf8mm.txt
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Very fast
Phantom	Left head
Device Position	Cheek
Band	GSM 835
Channels	Middle
Signal	TDMA (Crest factor: 8.0)



Maximum location: X=-45.00, Y=-25.00

SAR 10g (W/Kg)	0.121275
SAR 1g (W/Kg)	0.178437



Test Laboratory: AGC Lab
GSM 835 Mid-Tilt-Left <SIM 1>
DUT: Smart Phone; Type: Galapad 6

Date: Sep.12, 2013

Communication System: Generic GSM; Communication System Band: GSM 835; Duty Cycle: 1:8.3; Conv.F=5.30;
Frequency: 836.6 MHz; Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.91 \text{ mho/m}$; $\epsilon_r = 39.97$; $\rho = 1000 \text{ kg/m}^3$;
Phantom section: Left Section
Ambient temperature ($^{\circ}\text{C}$): 21.0, Liquid temperature($^{\circ}\text{C}$): 21.0

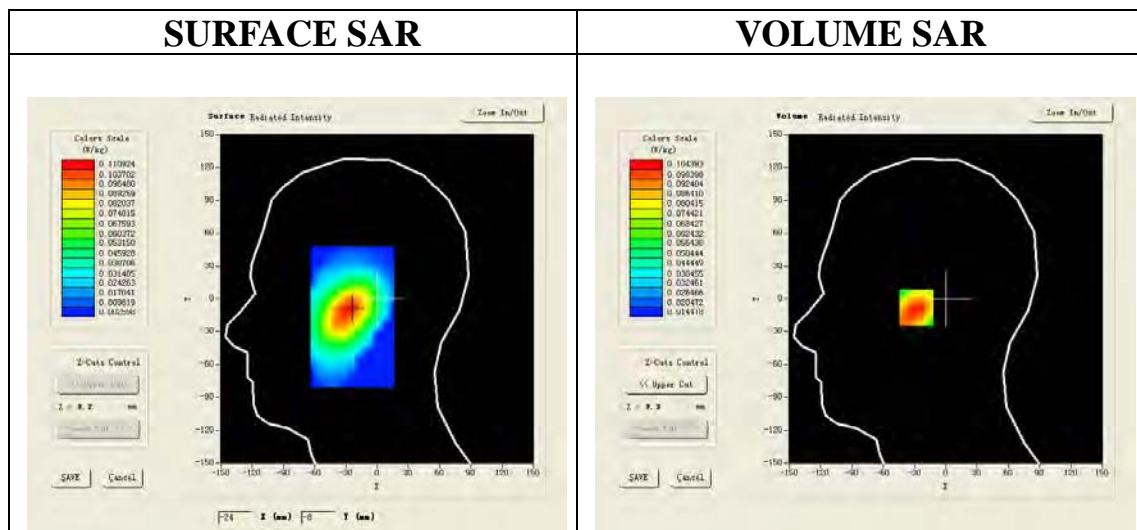
SATIMO Configuration:

- Probe: EP165; Calibrated: 01/31/2013
- Sensor-Surface: 4mm (Mechanical Surface Detection)
 - Phantom: Flat Phantom; Type: Elliptical Phantom
 - Measurement SW: OpenSAR V4_02_01

Configuration/GSM 835 Mid-Tilt-Left/Area Scan (6x8x1): Measurement grid: dx=8mm, dy=8mm

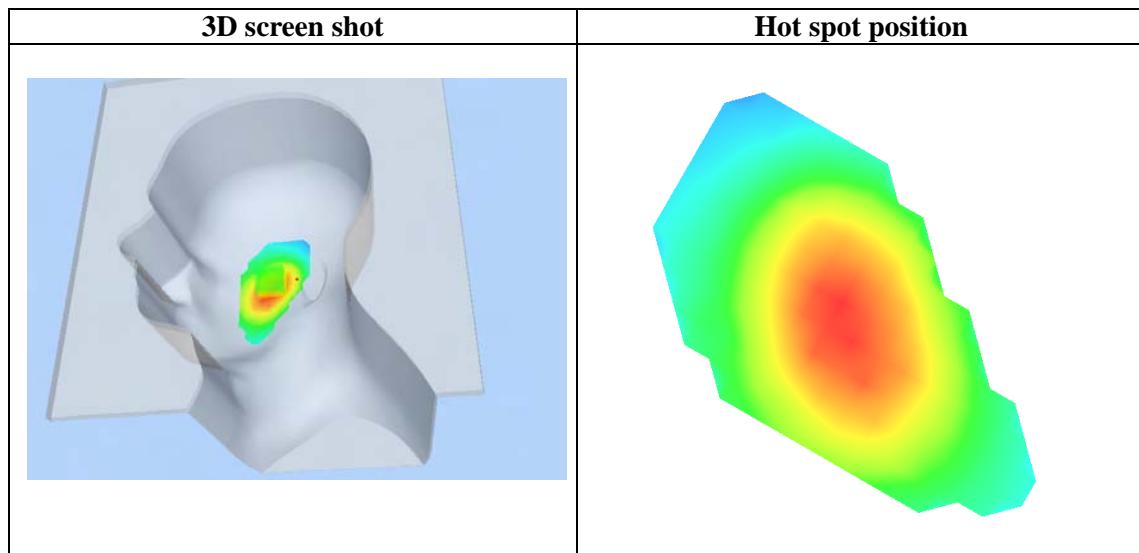
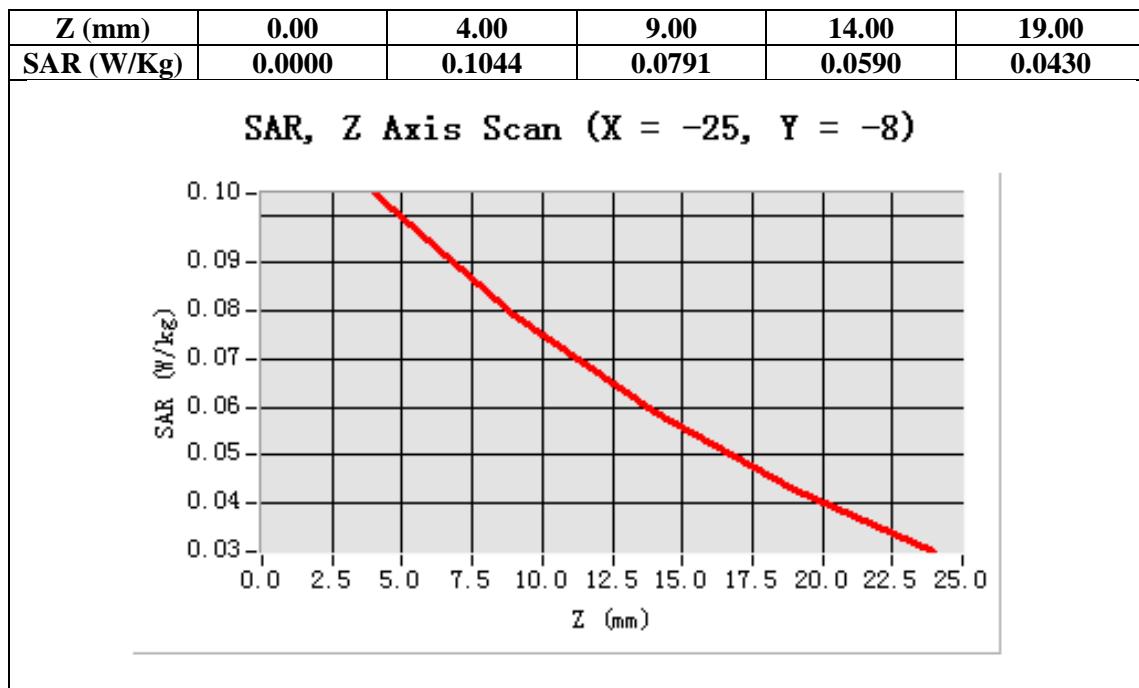
Configuration/GSM 835 Mid-Tilt-Left/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm,dz=5mm;

Area Scan	sam_direct_droit2_surf8mm.txt
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Very fast
Phantom	Left head
Device Position	Tilt
Band	GSM 835
Channels	Middle
Signal	TDMA (Crest factor: 8.0)



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

SAR 10g (W/Kg)	0.067143
SAR 1g (W/Kg)	0.098854



Test Laboratory: AGC Lab
GSM 835 Mid-Touch-Right <SIM 1>
DUT: Smart Phone; Type: Galapad 6

Date: Sep.12, 2013

Communication System: Generic GSM; Communication System Band: GSM 835; Duty Cycle: 1:8.3; Conv.F=5.30;
Frequency: 836.6 MHz; Medium parameters used: $f = 835$ MHz; $\sigma = 0.91$ mho/m; $\epsilon_r = 39.97$; $\rho = 1000$ kg/m³ ;
Phantom section: Right Section
Ambient temperature (°C): 21.0, Liquid temperature (°C): 21.0

SATIMO Configuration:

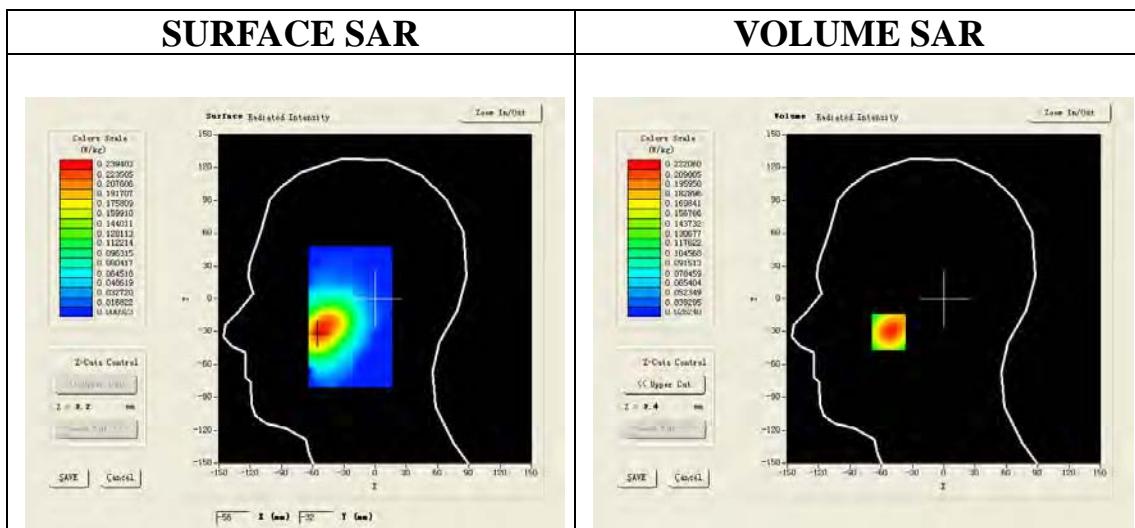
Probe: EP165; Calibrated: 01/31/2013

- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: Flat Phantom; Type: Elliptical Phantom
- Measurement SW: OpenSAR V4_02_01

Configuration/GSM 835 Mid-Touch-Right/Area Scan: Measurement grid: dx=8mm, dy=8mm

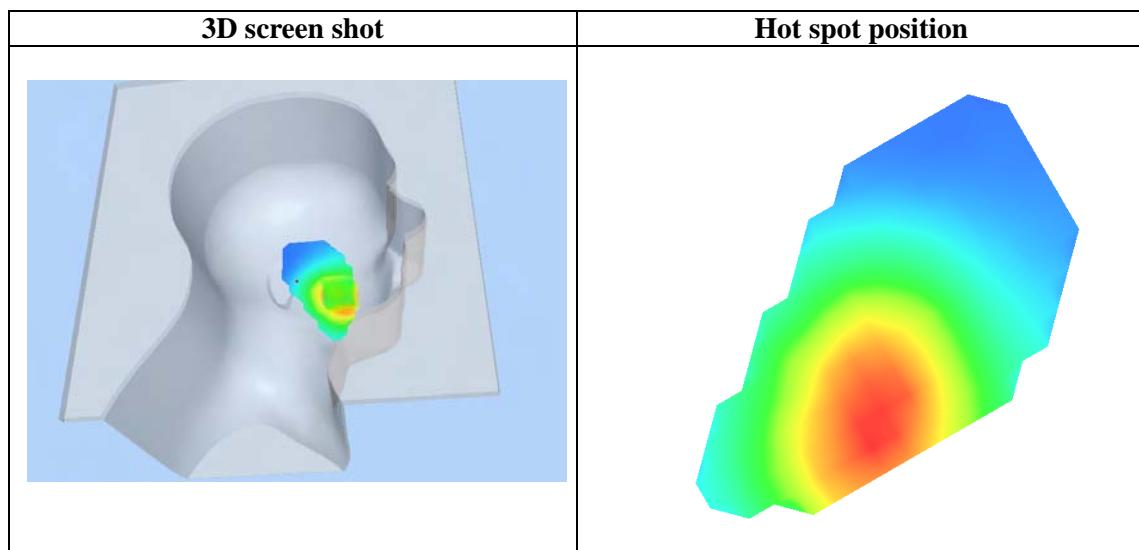
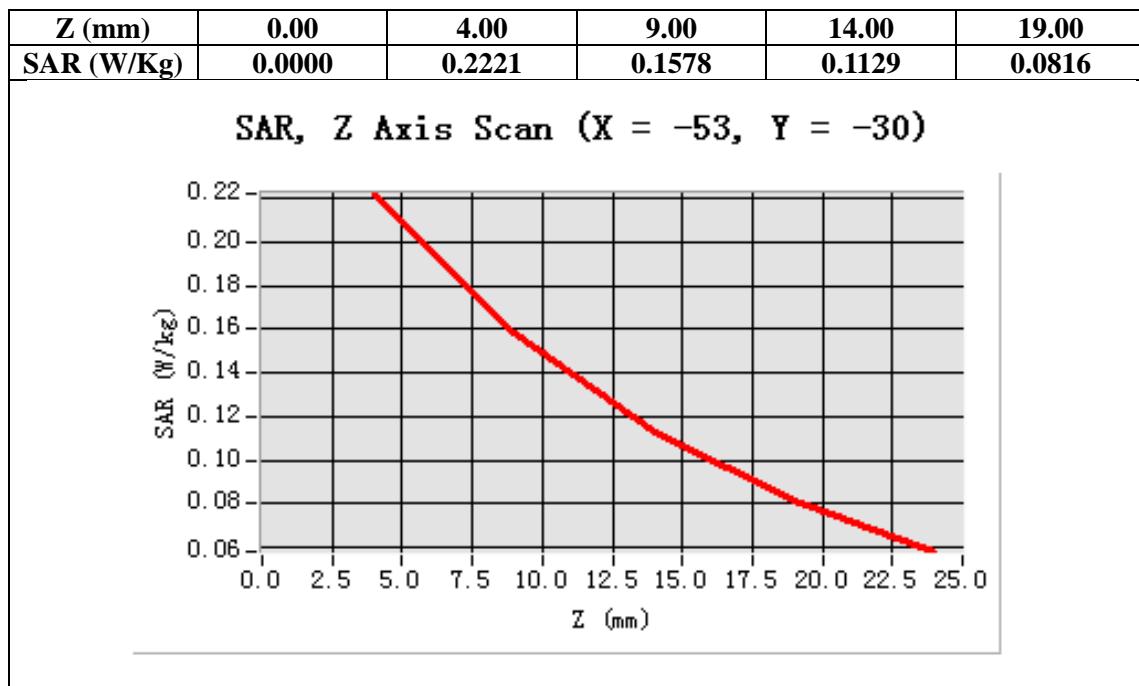
Configuration/GSM 835 Mid-Touch-Right/Zoom Scan: Measurement grid: dx=8mm, dy=8mm, dz=5mm;

Area Scan	sam_direct_droit2_surf8mm.txt
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Very fast
Phantom	Right head
Device Position	Cheek
Band	GSM 835
Channels	Middle
Signal	TDMA (Crest factor: 8.0)



Maximum location: X=-53.00, Y=-30.00

SAR 10g (W/Kg)	0.141035
SAR 1g (W/Kg)	0.212247



Test Laboratory: AGC Lab
GSM 835 Mid-Tilt-Right <SIM 1>
DUT: Smart Phone; Type: Galapad 6

Date: Sep.12, 2013

Communication System: Generic GSM; Communication System Band: GSM 835; Duty Cycle: 1:8.3; Conv.F=5.30;
Frequency: 836.6 MHz; Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.91 \text{ mho/m}$; $\epsilon_r = 39.97$; $\rho = 1000 \text{ kg/m}^3$;
Phantom section: Right Section
Ambient temperature ($^{\circ}\text{C}$): 21.0, Liquid temperature ($^{\circ}\text{C}$): 21.0

SATIMO Configuration:

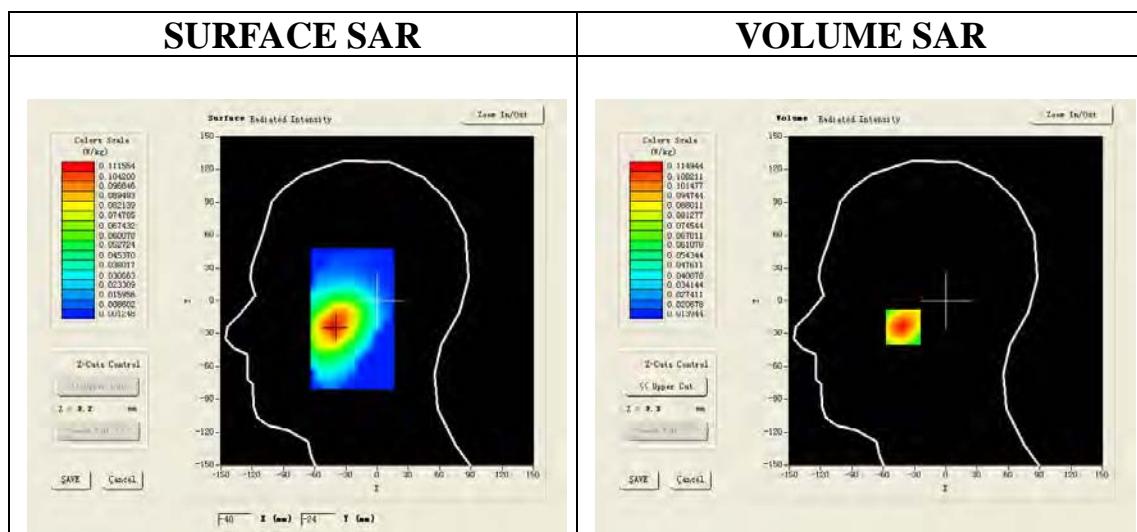
Probe: EP165; Calibrated: 01/31/2013

- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: Flat Phantom; Type: Elliptical Phantom
- Measurement SW: OpenSAR V4_02_01

Configuration/GSM 835 Mid-Tilt-Right/Area Scan: Measurement grid: dx=8mm, dy=8mm

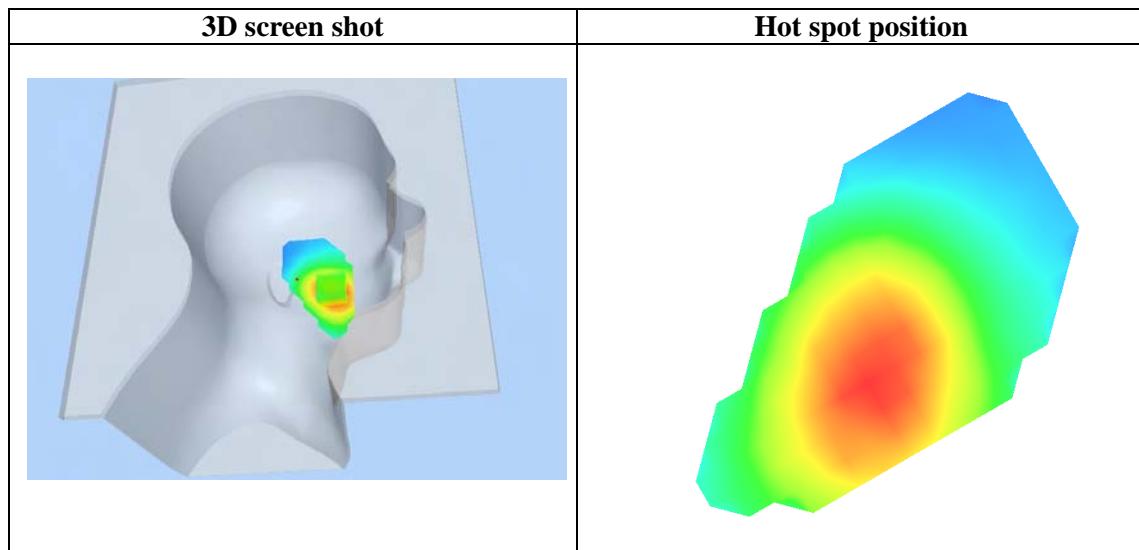
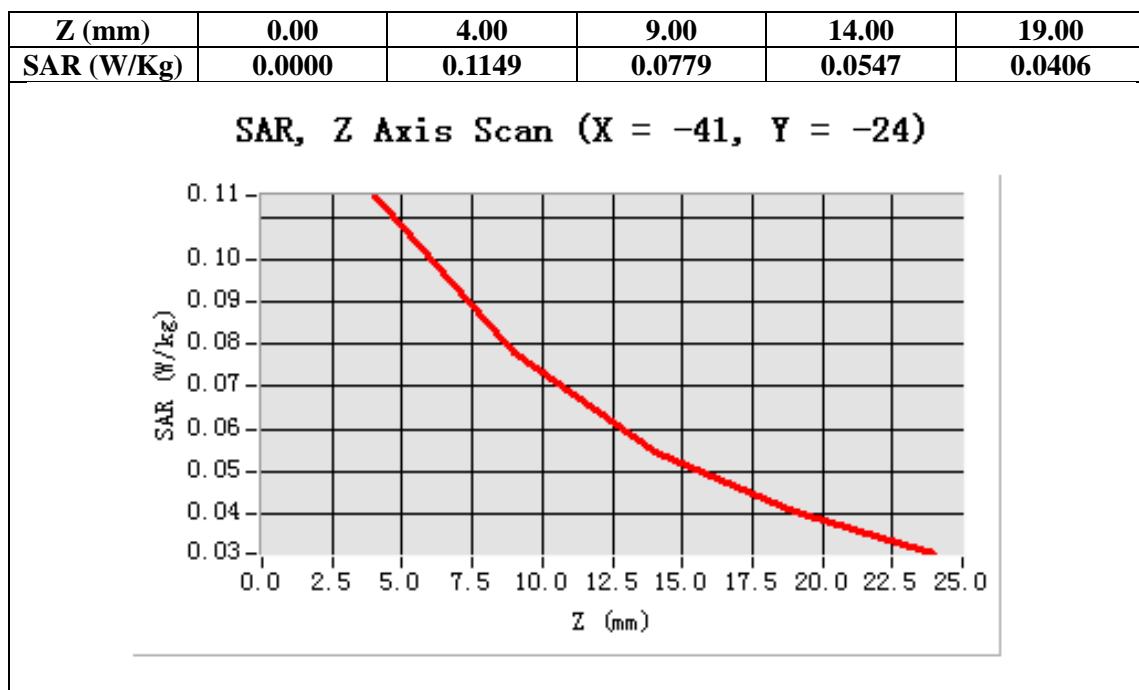
Configuration/GSM 835 Mid-Tilt-Right/Zoom Scan: Measurement grid: dx=8mm, dy=8mm, dz=5mm;

Area Scan	sam_direct_droit2_surf8mm.txt
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Very fast
Phantom	Right head
Device Position	Tilt
Band	GSM 835
Channels	Middle
Signal	TDMA (Crest factor: 8.0)



Maximum location: X=-41.00, Y=-24.00

SAR 10g (W/Kg)	0.072471
SAR 1g (W/Kg)	0.108528



Test Laboratory: AGC Lab
GSM 835 Mid-Touch-Right <SIM 2>
DUT: Smart Phone; Type: Galapad 6

Date: Sep.12, 2013

Communication System: Generic GSM; Communication System Band: GSM 835; Duty Cycle: 1:8.3; Conv.F=5.30
Frequency: 836.6 MHz; Medium parameters used: $f = 835$ MHz; $\sigma = 0.91$ mho/m; $\epsilon_r = 39.97$; $\rho = 1000$ kg/m³ ;
Phantom section: Right Section
Ambient temperature (°C): 21.0, Liquid temperature (°C): 21.0

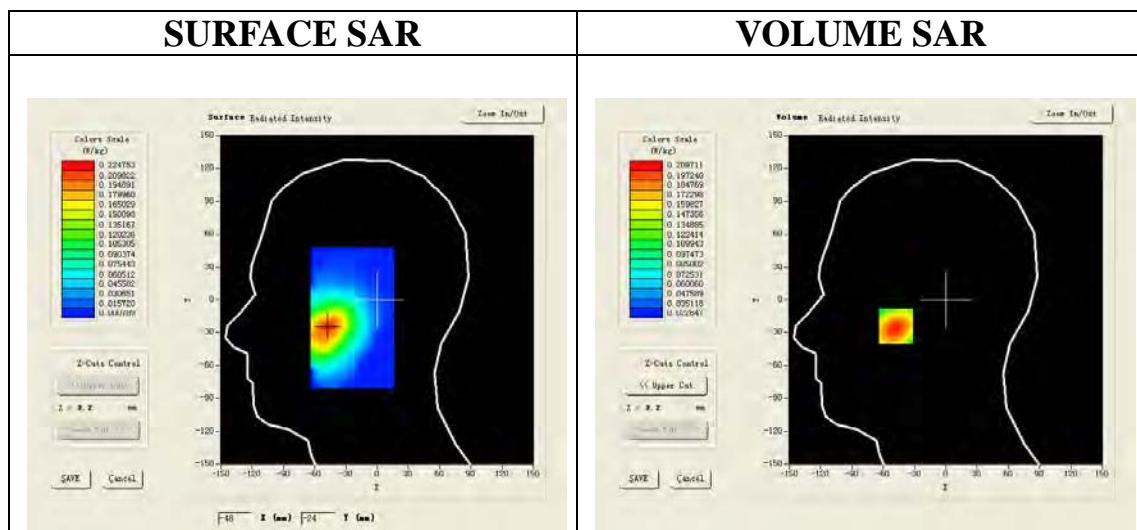
SATIMO Configuration:

- Probe: EP165; Calibrated: 01/31/2013
- Sensor-Surface: 4mm (Mechanical Surface Detection)
 - Phantom: Flat Phantom; Type: Elliptical Phantom
 - Measurement SW: OpenSAR V4_02_01

Configuration/GSM 835 Mid-Touch-Right/Area Scan (6x8x1): Measurement grid: dx=8mm, dy=8mm

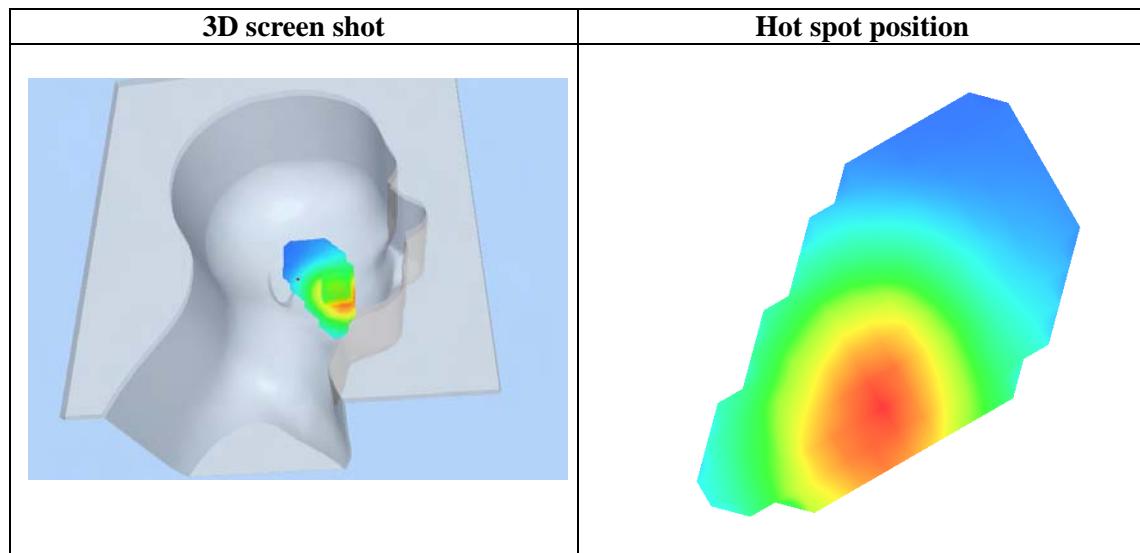
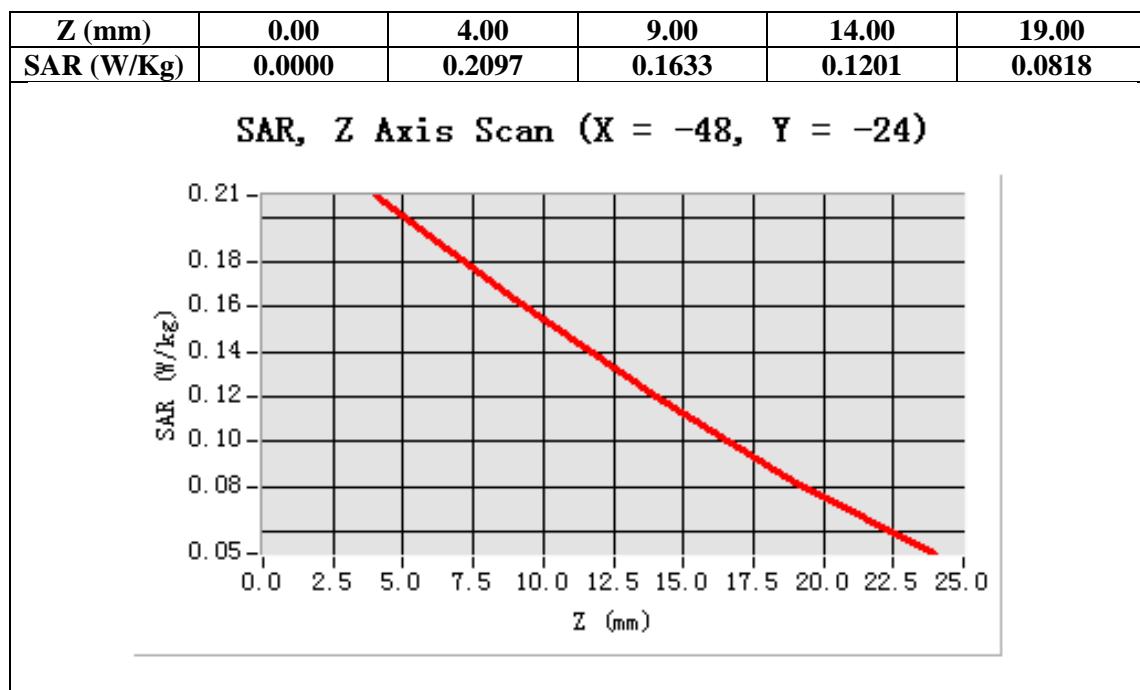
Configuration/GSM 835 Mid-Touch-Right/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Area Scan	sam_direct_droit2_surf8mm.txt
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Very fast
Phantom	Right head
Device Position	Cheek
Band	GSM 835
Channels	Middle
Signal	TDMA (Crest factor: 8.0)



Maximum location: X=-48.00, Y=-24.00

SAR 10g (W/Kg)	0.134275
SAR 1g (W/Kg)	0.202217



Test Laboratory: AGC Lab
GSM 835 Mid- Body- Back <SIM 1>
DUT: Smart Phone; Type: Galapad 6

Date: Sep.12, 2013

Communication System: Generic GSM; Communication System Band: GSM 835; Duty Cycle: 1:8.3; Conv.F=5.46;
Frequency: 836.6 MHz; Medium parameters used: $f = 835$ MHz; $\sigma = 0.95\text{mho/m}$; $\epsilon_r = 53.26$; $\rho = 1000 \text{ kg/m}^3$;
Phantom section: Flat Section
Ambient temperature ($^{\circ}\text{C}$): 21.0, Liquid temperature ($^{\circ}\text{C}$): 21.0

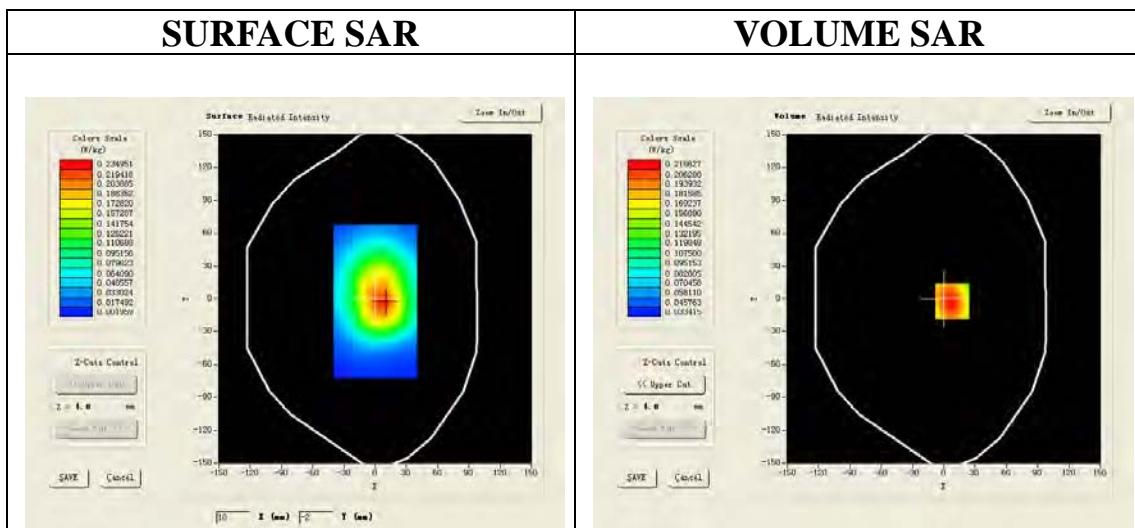
SATIMO Configuration:

- Probe: EP165; Calibrated: 01/31/2013
- Sensor-Surface: 4mm (Mechanical Surface Detection)
 - Phantom: Flat Phantom; Type: Elliptical Phantom
 - Measurement SW: OpenSAR V4_02_01

Configuration/GSM 835 Mid-Body-Back/Area Scan (6x8x1): Measurement grid: dx=8mm, dy=8mm

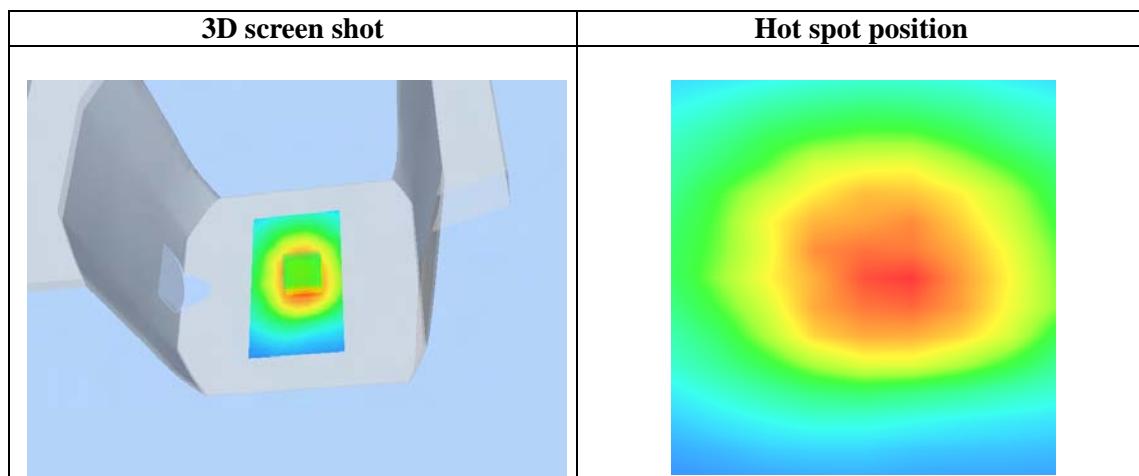
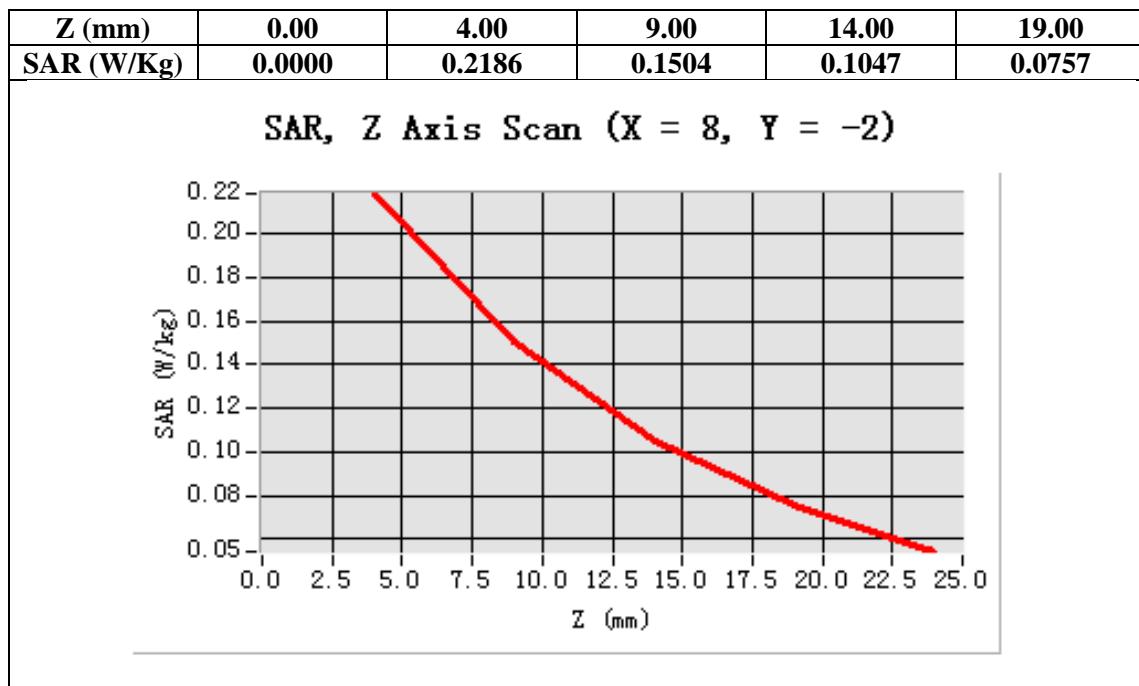
Configuration/GSM 835 Mid-Body-Back/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm;

Area Scan	surf_sam_plan.txt
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Very fast
Phantom	Validation plane
Device Position	Body Back
Band	GSM 835
Channels	Middle
Signal	TDMA (Crest factor: 8.0)



Maximum location: X=8.00, Y=-2.00

SAR 10g (W/Kg)	0.151357
SAR 1g (W/Kg)	0.224682



Test Laboratory: AGC Lab
GSM 835 Mid- Body- Front (MS) <SIM 1>
DUT: Smart Phone; Type: Galapad 6

Date: Sep.12, 2013

Communication System: Generic GSM; Communication System Band: GSM 835; Duty Cycle: 1:8.3; Conv.F=5.46;
Frequency: 836.6 MHz; Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.95 \text{ mho/m}$; $\epsilon_r = 53.26$; $\rho = 1000 \text{ kg/m}^3$;
Phantom section: Flat Section
Ambient temperature ($^{\circ}\text{C}$): 21.0, Liquid temperature ($^{\circ}\text{C}$): 21.0

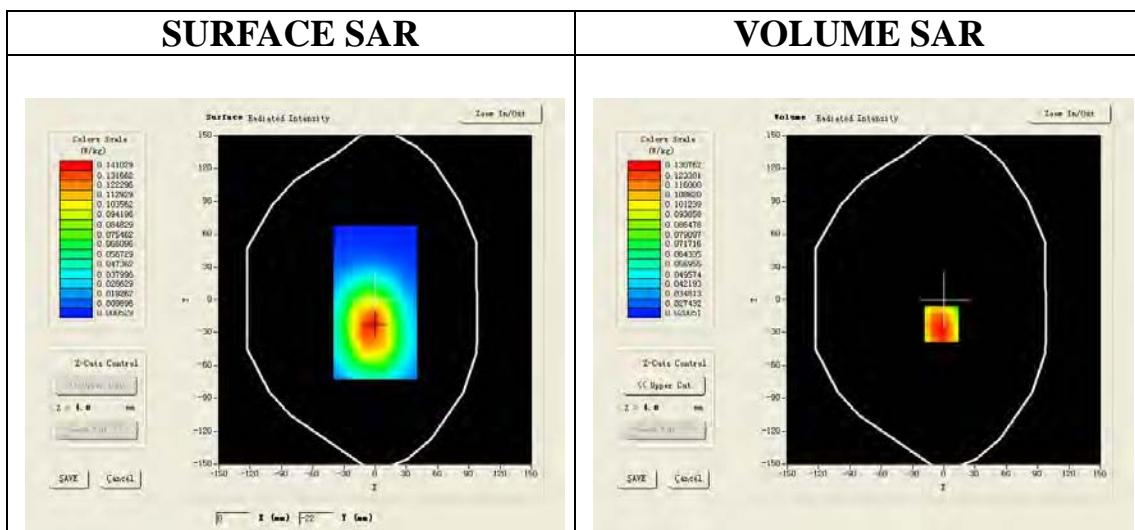
SATIMO Configuration:

- Probe: EP165; Calibrated: 01/31/2013
- Sensor-Surface: 4mm (Mechanical Surface Detection)
 - Phantom: Flat Phantom; Type: Elliptical Phantom
 - Measurement SW: OpenSAR V4_02_01

Configuration/GSM 835 Mid-Body- Front /Area Scan (6x8x1): Measurement grid: dx=8mm, dy=8mm

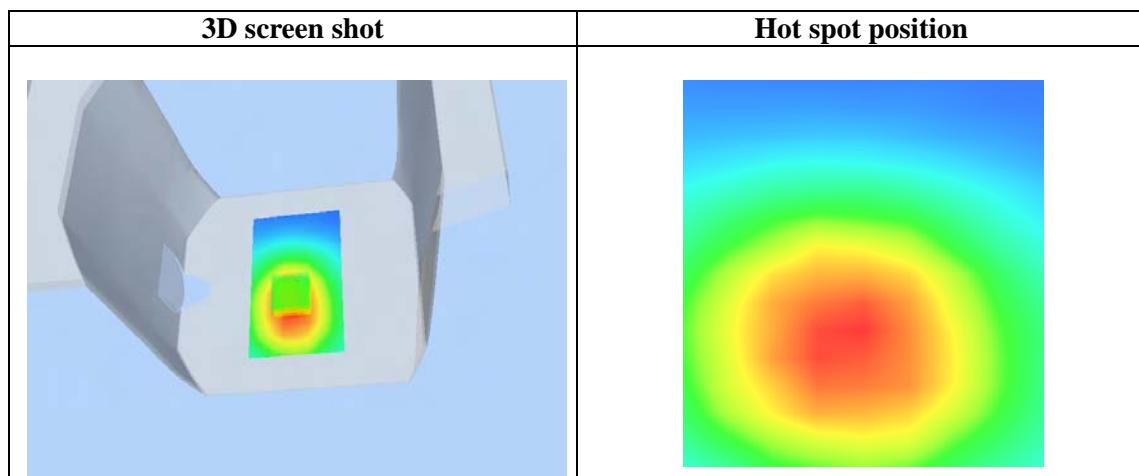
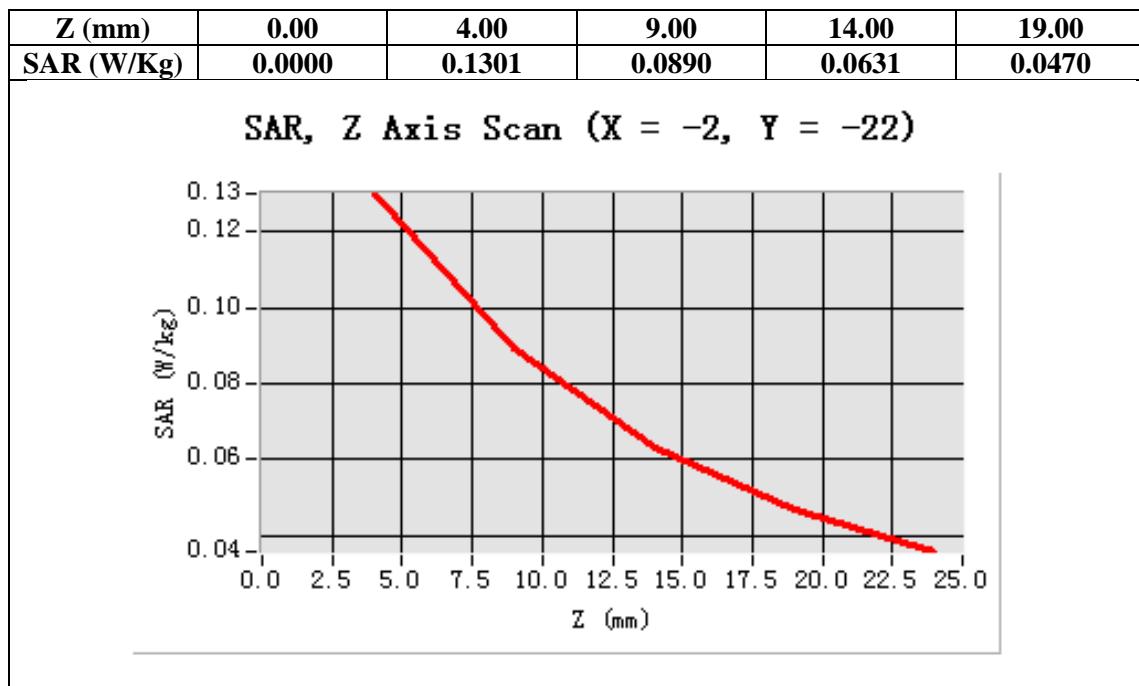
Configuration/GSM 835 Mid-Body- Front Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm;

Area Scan	surf_sam_plan.txt
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Very fast
Phantom	Validation plane
Device Position	Body Front
Band	GSM 835
Channels	Middle
Signal	TDMA (Crest factor: 8.0)



Maximum location: X=-2.00, Y=-22.00

SAR 10g (W/Kg)	0.093574
SAR 1g (W/Kg)	0.132761



Test Laboratory: AGC Lab
PCS 1900 Mid-Touch-Left <SIM 1>
DUT: Smart Phone; Type: Galapad 6

Date: Sep.12, 2013

Communication System: Generic GSM; Communication System Band: PCS 1900; Duty Cycle: 1:8.3; Conv.F=4.72;
Frequency: 1880 MHz; Medium parameters used: $f = 1900$ MHz; $\sigma = 1.38$ mho/m; $\epsilon_r = 40.33$; $\rho = 1000$ kg/m³ ;
Phantom section: Left Section
Ambient temperature (°C): 21.0, Liquid temperature (°C): 21.0

SATIMO Configuration:

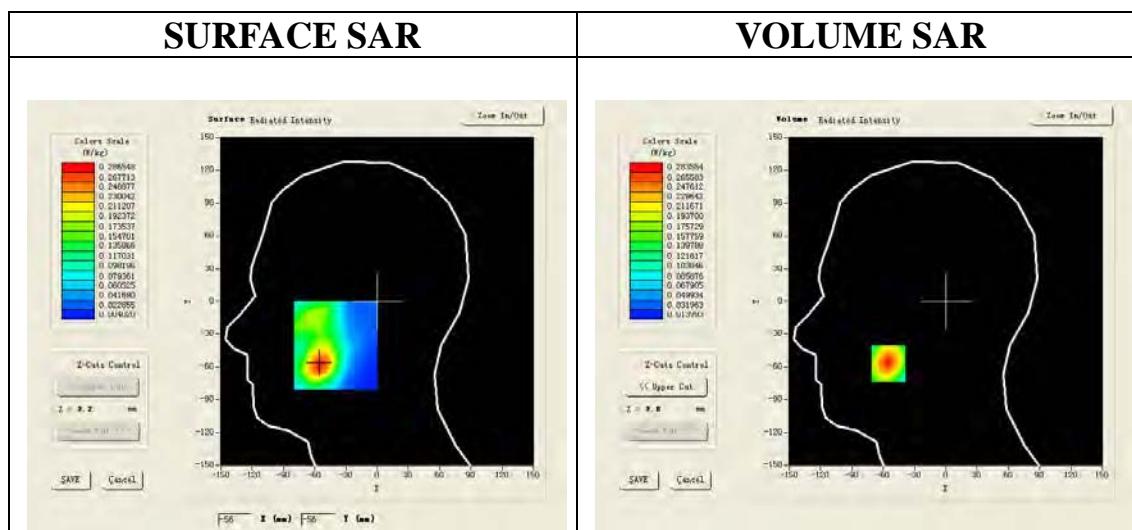
Probe: EP165; Calibrated: 01/31/2013

- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: Flat Phantom; Type: Elliptical Phantom
- Measurement SW: OpenSAR V4_02_01

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

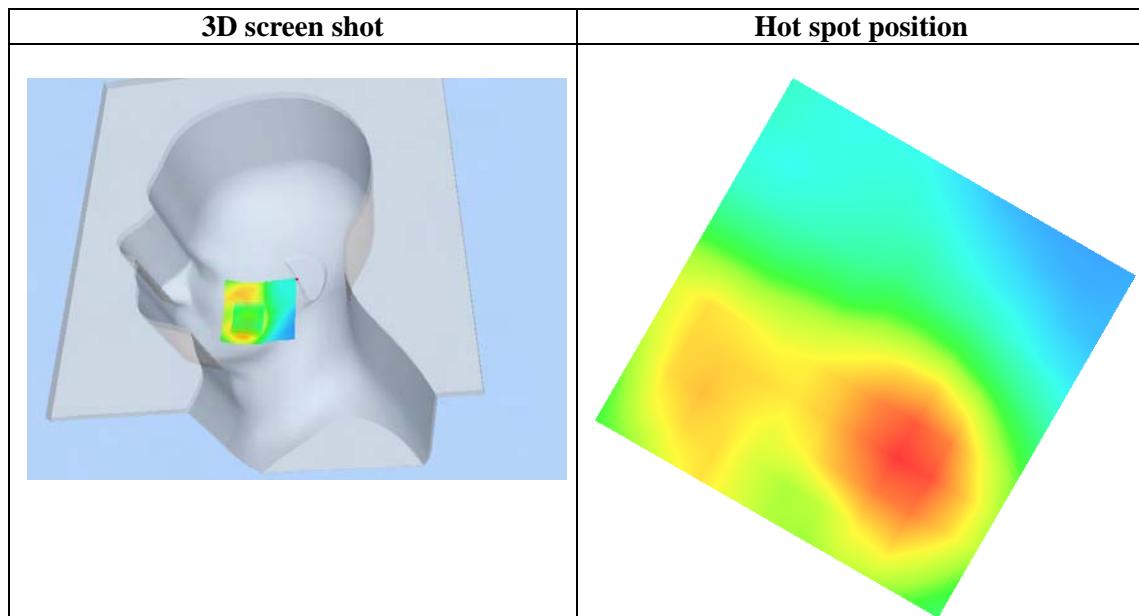
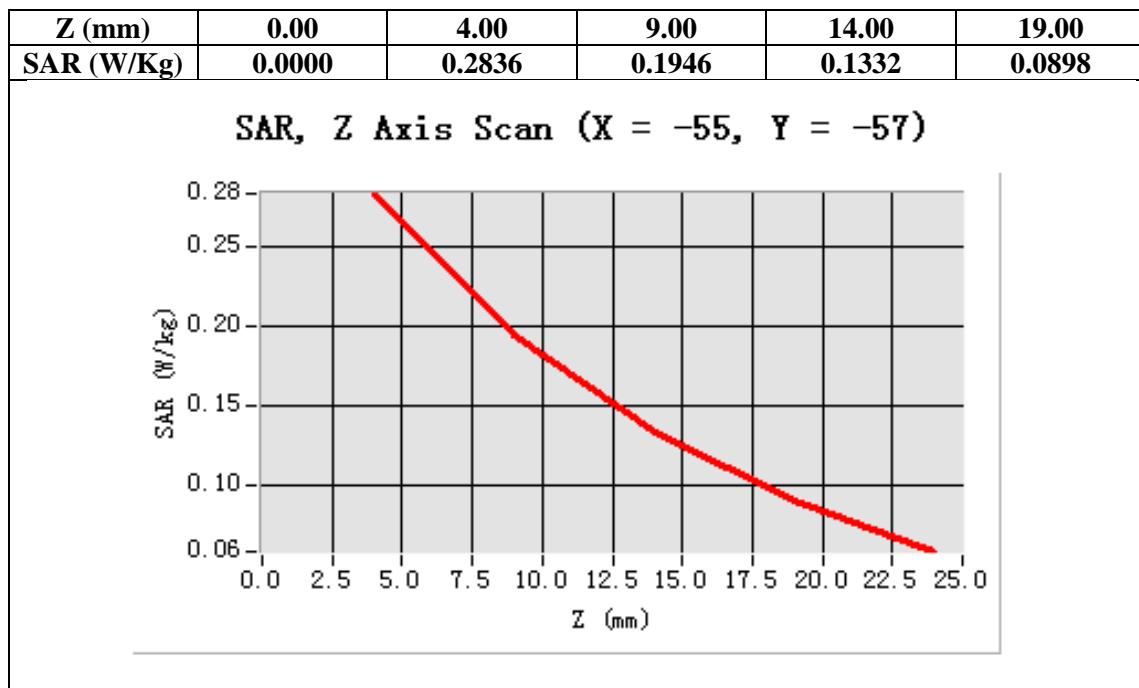
Configuration/PCS1900 Mid-Touch-Left/Zoom Scan: Measurement grid: dx=8mm, dy=8mm, dz=5mm;

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



Maximum location: X=-55.00, Y=-57.00

SAR 10g (W/Kg)	0.165274
SAR 1g (W/Kg)	0.263846



Test Laboratory: AGC Lab
PCS 1900 Mid-Tilt-Left <SIM 1>
DUT: Smart Phone; Type: Galapad 6

Date: Sep.12, 2013

Communication System: Generic GSM; Communication System Band: PCS 1900; Duty Cycle: 1:8.3; Conv.F=4.72;
Frequency: 1880 MHz; Medium parameters used: $f = 1900$ MHz; $\sigma = 1.38$ mho/m; $\epsilon_r = 40.33$; $\rho = 1000$ kg/m³ ;
Phantom section: Left Section
Ambient temperature (°C): 21.0, Liquid temperature (°C): 21.0

SATIMO Configuration:

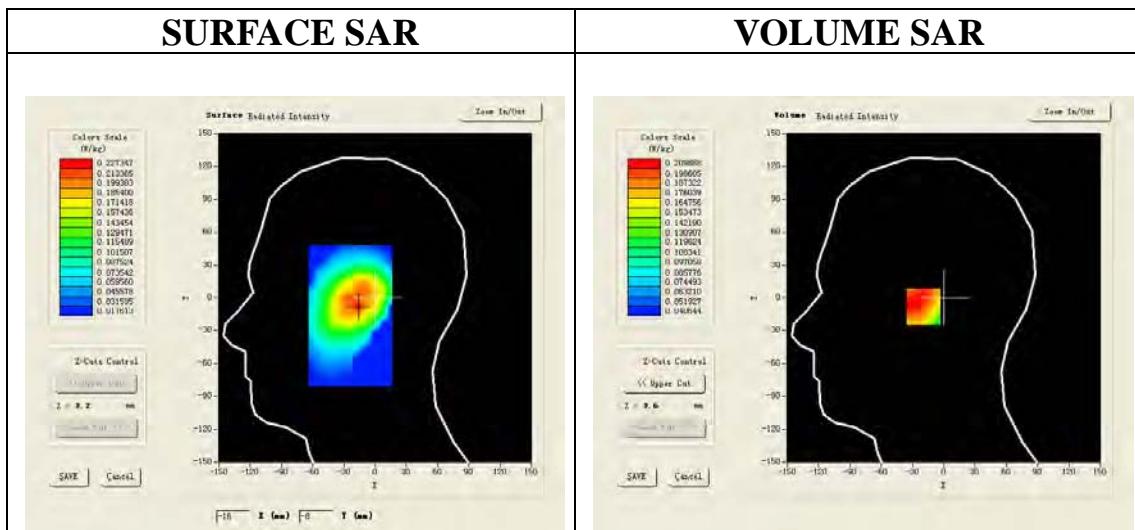
Probe: EP165; Calibrated: 01/31/2013

- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: Flat Phantom; Type: Elliptical Phantom
- Measurement SW: OpenSAR V4_02_01

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

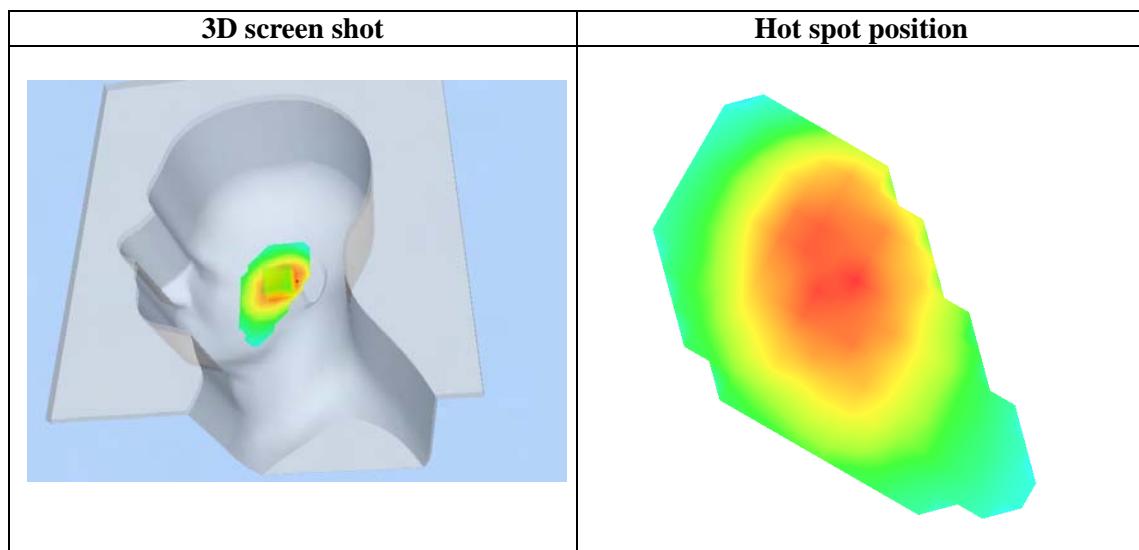
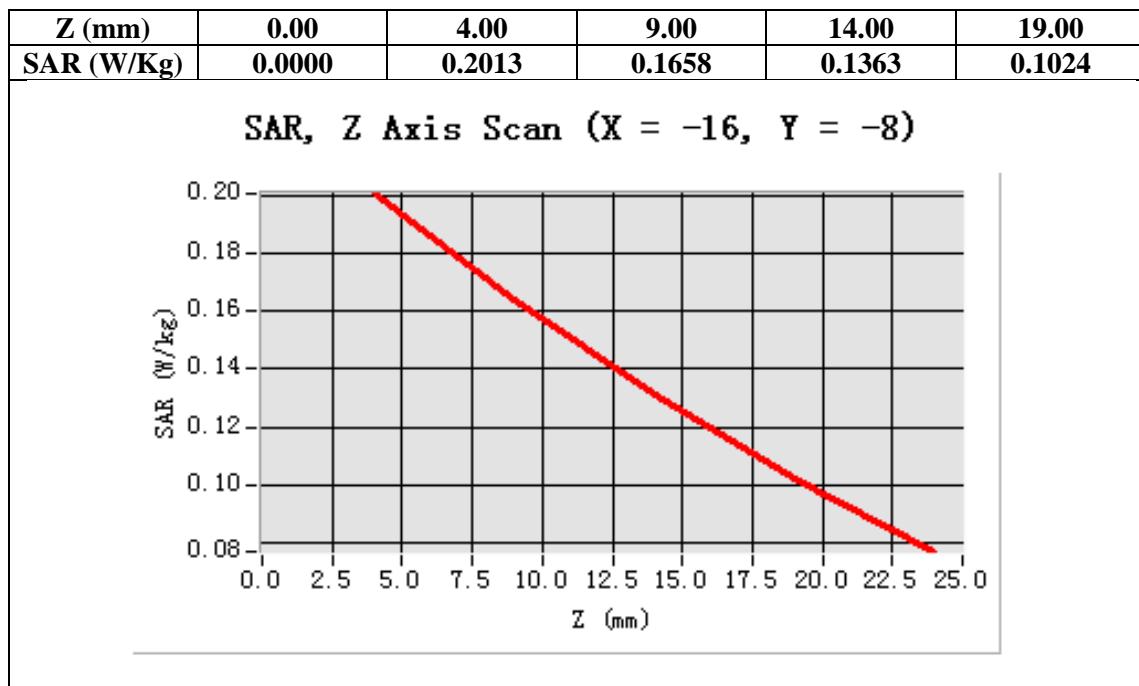
Configuration/PCS1900 Mid-Tilt-Left/Zoom Scan: Measurement grid: dx=8mm, dy=8mm,dz=5mm;

Area Scan	sam_direct_droit2_surf8mm.txt
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Very fast
Phantom	Left head
Device Position	Tilt
Band	PCS 1900
Channels	Middle
Signal	TDMA (Crest factor: 8.0)



Maximum location: X=-16.00, Y=-8.00

SAR 10g (W/Kg)	0.157548
SAR 1g (W/Kg)	0.205372



Test Laboratory: AGC Lab
PCS 1900 Mid-Touch-Right <SIM 1>
DUT: Smart Phone; Type: Galapad 6

Date: Sep.12, 2013

Communication System: Generic GSM; Communication System Band: PCS 1900; Duty Cycle: 1:8.3; Conv.F=4.72;
Frequency: 1880 MHz; Medium parameters used: $f = 1900$ MHz; $\sigma = 1.38$ mho/m; $\epsilon_r = 40.33$; $\rho = 1000$ kg/m³ ;
Phantom section: Right Section
Ambient temperature (°C): 21.0, Liquid temperature (°C): 21.0

SATIMO Configuration:

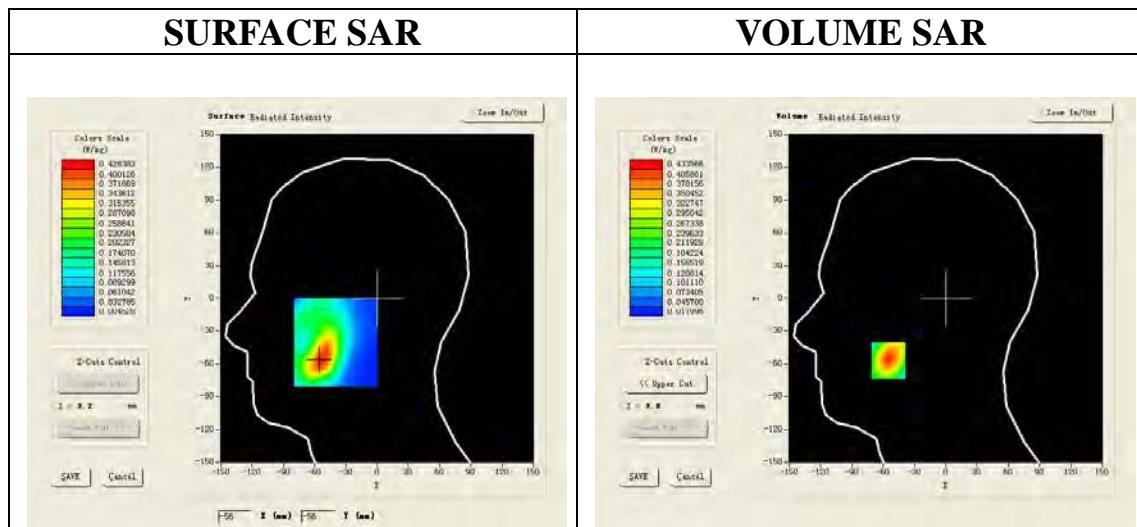
Probe: EP165; Calibrated: 01/31/2013

- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: Flat Phantom; Type: Elliptical Phantom
- Measurement SW: OpenSAR V4_02_01

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

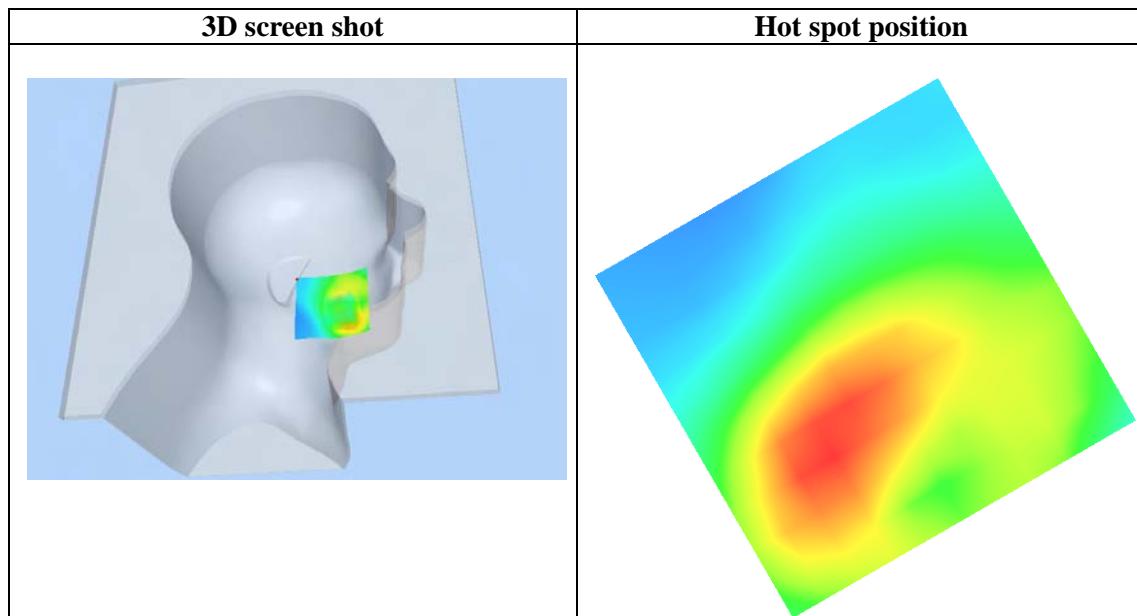
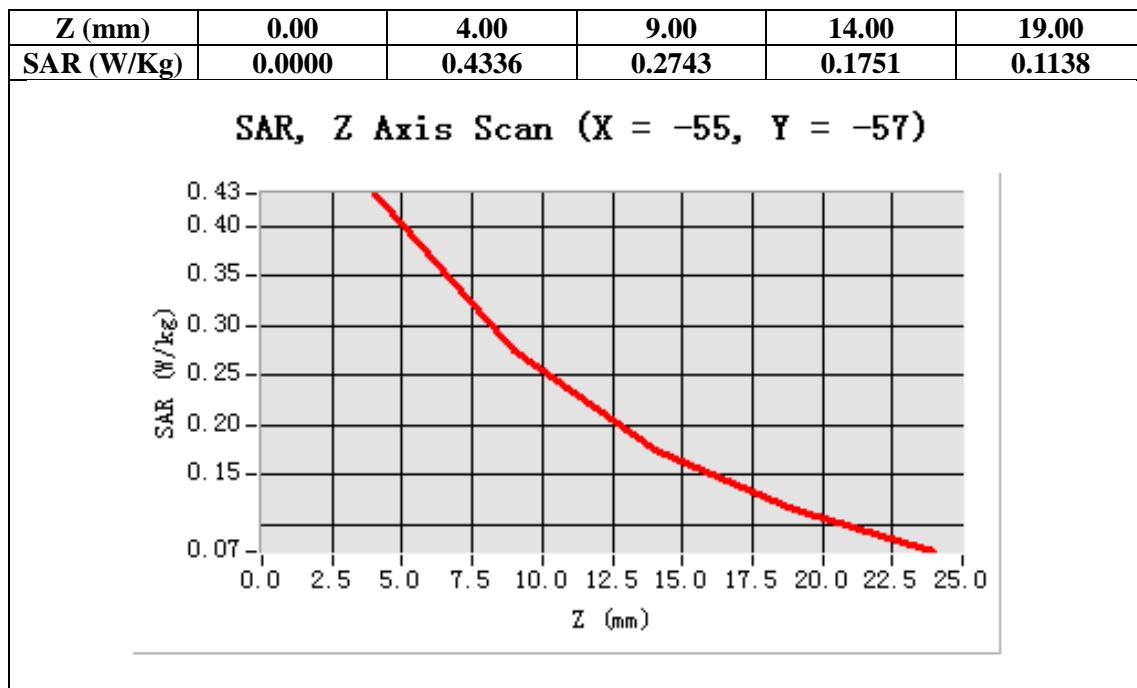
Configuration/PCS1900 Mid-Touch-Right/Zoom Scan: Measurement grid: dx=8mm, dy=8mm, dz=5mm;

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



Maximum location: X=-55.00, Y=-57.00

SAR 10g (W/Kg)	0.237124
SAR 1g (W/Kg)	0.406258



Test Laboratory: AGC Lab
PCS 1900 Mid-Tilt-Right <SIM 1>
DUT: Smart Phone; Type: Galapad 6

Date: Sep.12, 2013

Communication System: Generic GSM; Communication System Band: PCS 1900; Duty Cycle: 1:8.3; Conv.F=4.72;
Frequency: 1880 MHz; Medium parameters used: $f = 1900$ MHz; $\sigma = 1.38$ mho/m; $\epsilon_r = 40.33$; $\rho = 1000$ kg/m³ ;
Phantom section: Right Section
Ambient temperature (°C): 21.0, Liquid temperature (°C): 21.0

SATIMO Configuration:

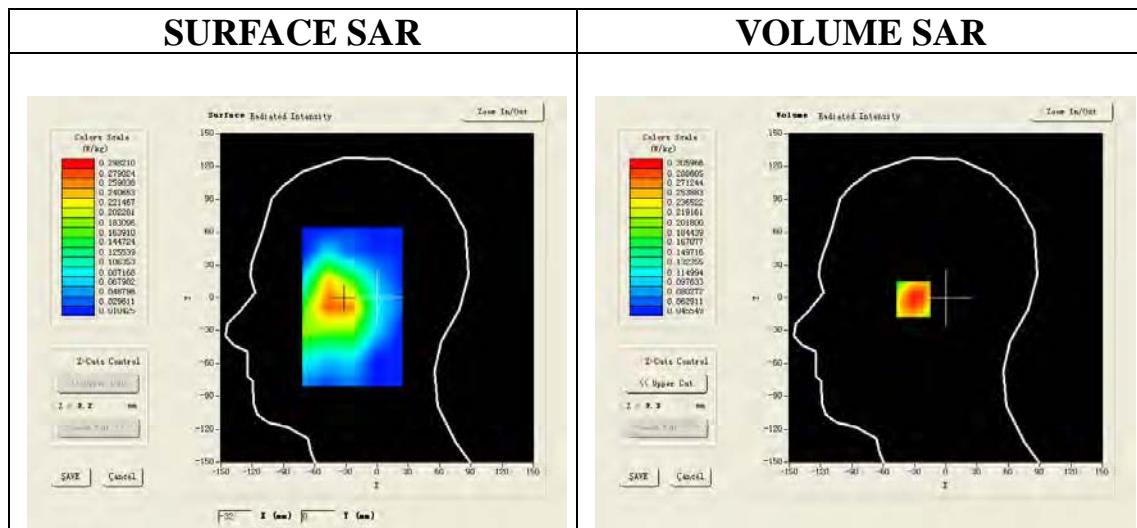
Probe: EP165; Calibrated: 01/31/2013

- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: Flat Phantom; Type: Elliptical Phantom
- Measurement SW: OpenSAR V4_02_01

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

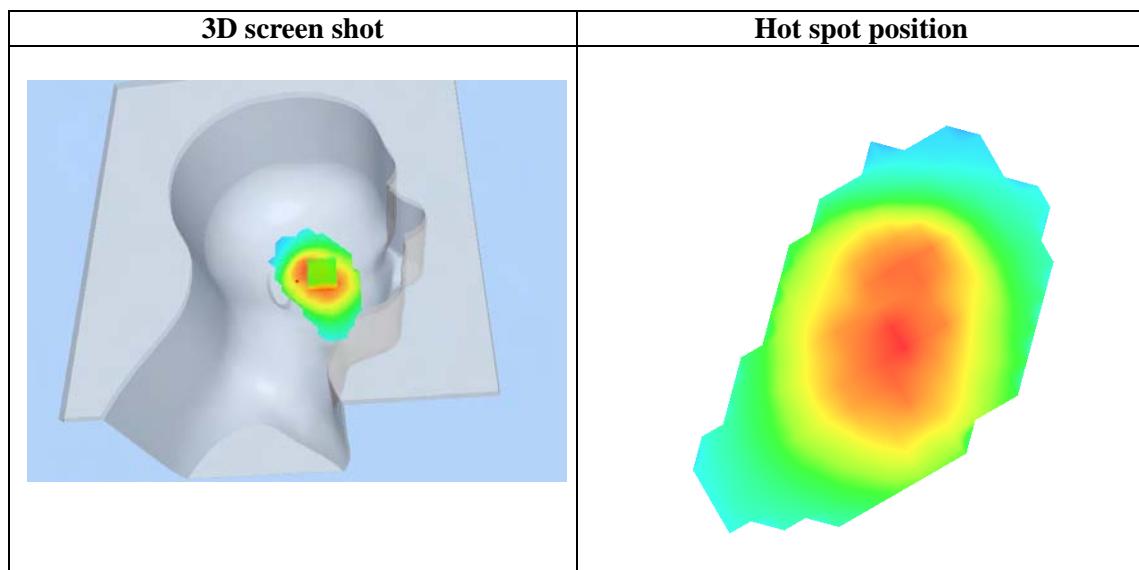
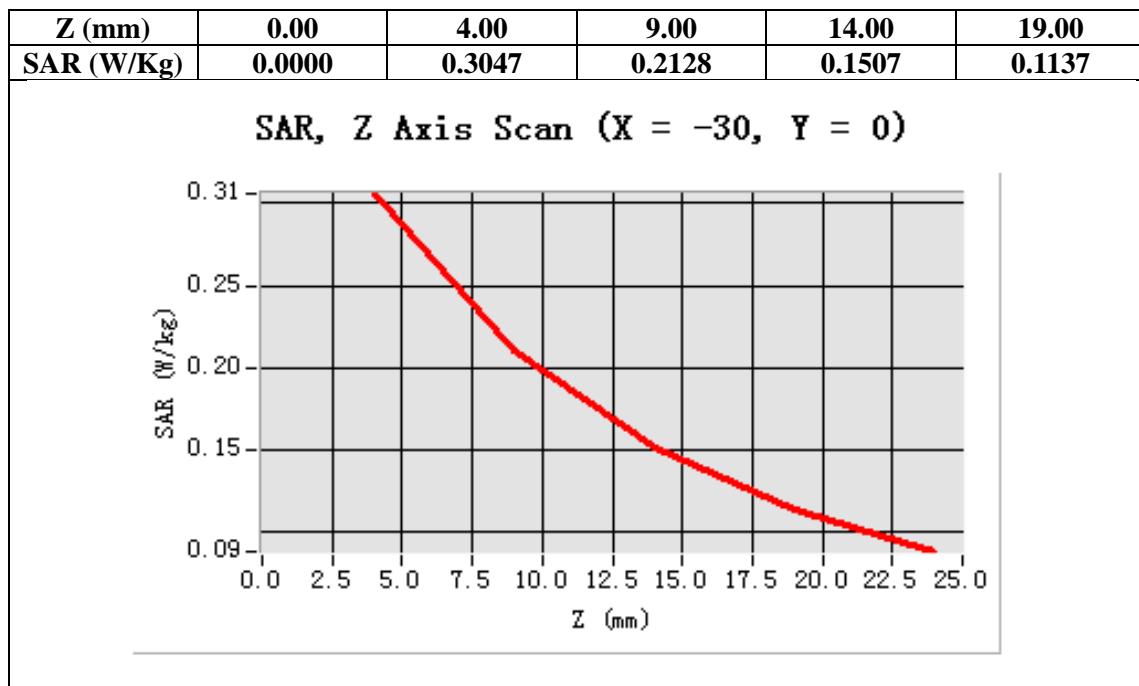
Configuration/PCS1900 Mid-Tilt-Right/Zoom Scan: Measurement grid: dx=8mm, dy=8mm, dz=5mm;

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



Maximum location: X=-30.00, Y=0.00

SAR 10g (W/Kg)	0.195721
SAR 1g (W/Kg)	0.294628



Test Laboratory: AGC Lab
PCS 1900 Mid-Touch-Right <SIM 2>
DUT: Smart Phone; Type: Galapad 6

Date: Sep.12, 2013

Communication System: Generic GSM; Communication System Band: PCS 1900; Duty Cycle: 1:8.3; Conv.F=4.72;
Frequency: 1880 MHz; Medium parameters used: $f = 1900$ MHz; $\sigma = 1.38$ mho/m; $\epsilon_r = 40.33$; $\rho = 1000$ kg/m³ ;
Phantom section: Right Section
Ambient temperature (°C): 21.0, Liquid temperature (°C): 21.0

SATIMO Configuration:

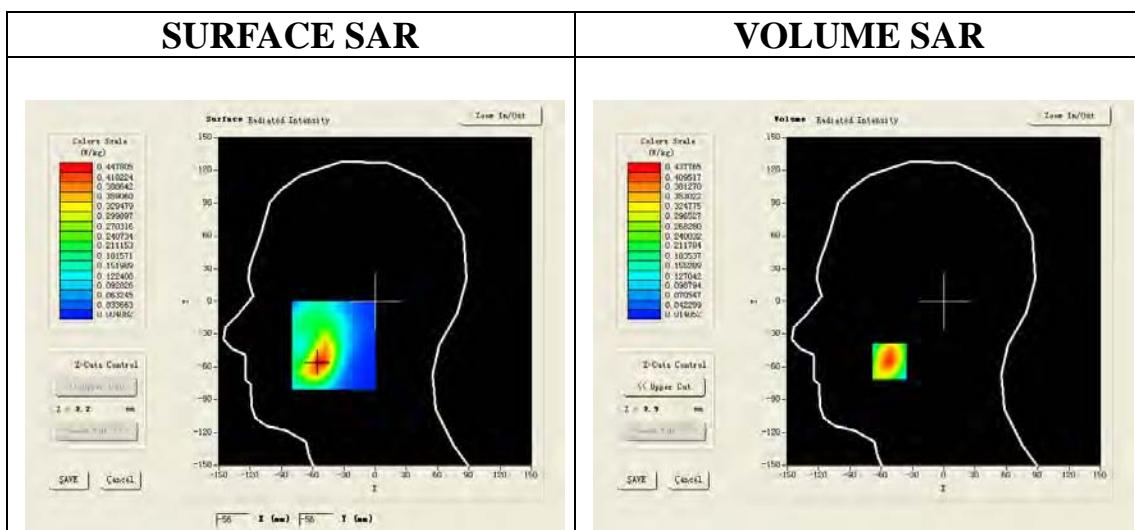
Probe: EP165; Calibrated: 01/31/2013

- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: Flat Phantom; Type: Elliptical Phantom
- Measurement SW: OpenSAR V4_02_01

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

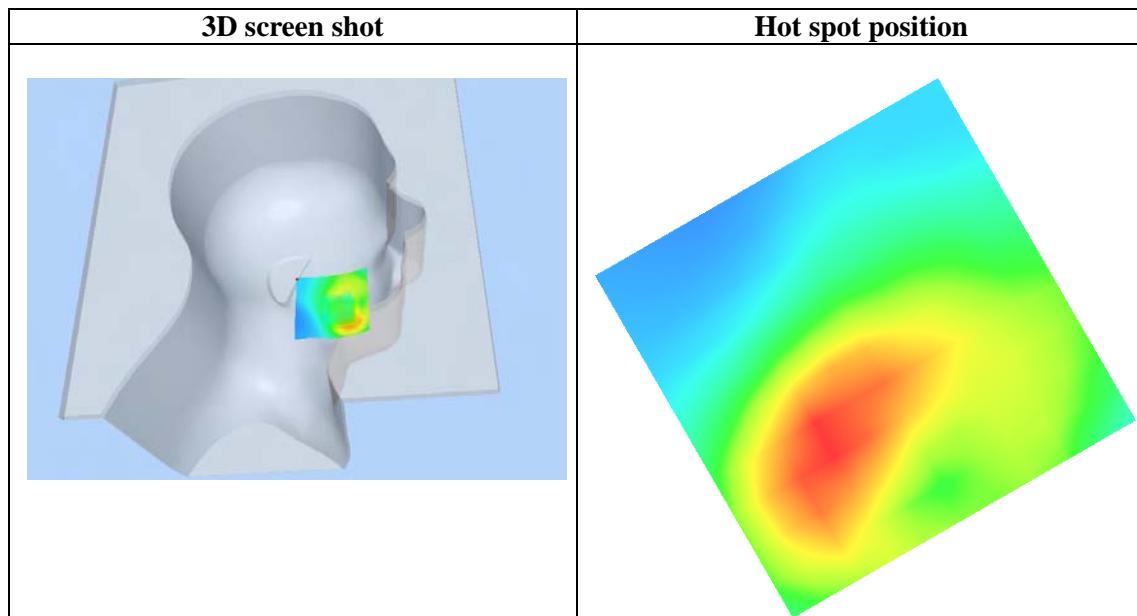
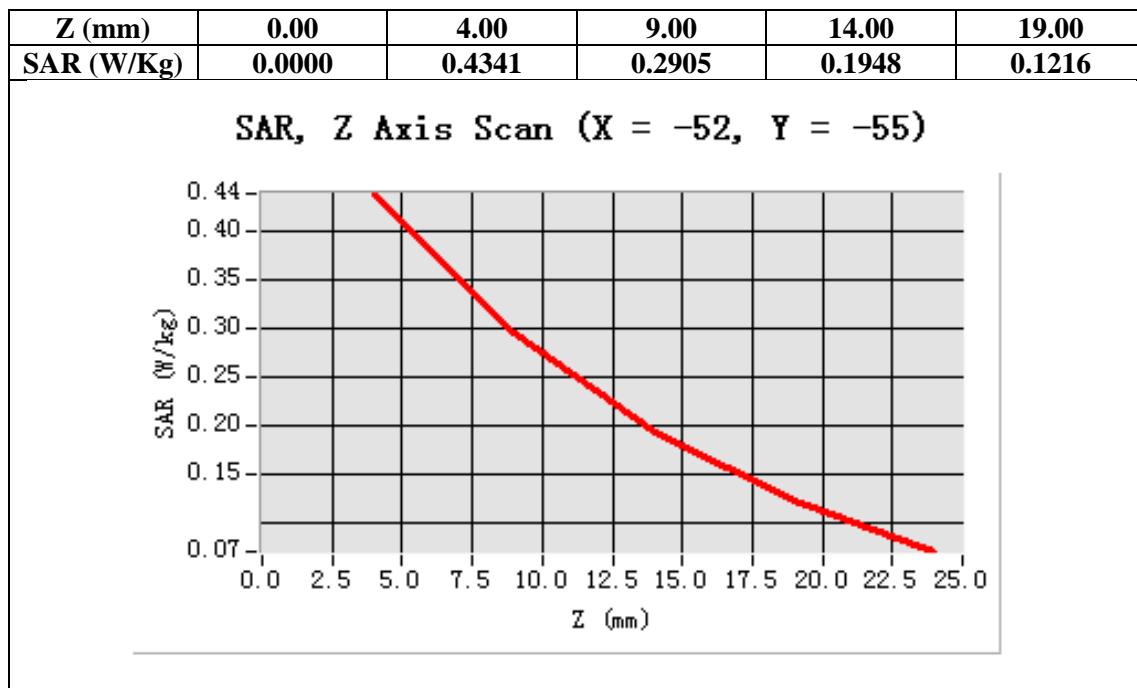
Configuration/PCS1900 Mid-Touch-Right/Zoom Scan: Measurement grid: dx=8mm, dy=8mm, dz=5mm;

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



Maximum location: X=-52.00, Y=-55.00

SAR 10g (W/Kg)	0.243907
SAR 1g (W/Kg)	0.405539



Test Laboratory: AGC Lab
PCS 1900 Mid-Body- Back <SIM 1>
DUT: Smart Phone; Type: Galapad 6

Date: Sep.12, 2013

Communication System: Generic GSM; Communication System Band: PCS 1900; Duty Cycle: 1:8.3; Conv.F=4.84;
Frequency: 1880 MHz; Medium parameters used: $f = 1900$ MHz; $\sigma = 1.53$ mho/m; $\epsilon_r = 54.12$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section
Ambient temperature (°C): 21.0, Liquid temperature (°C): 21.0

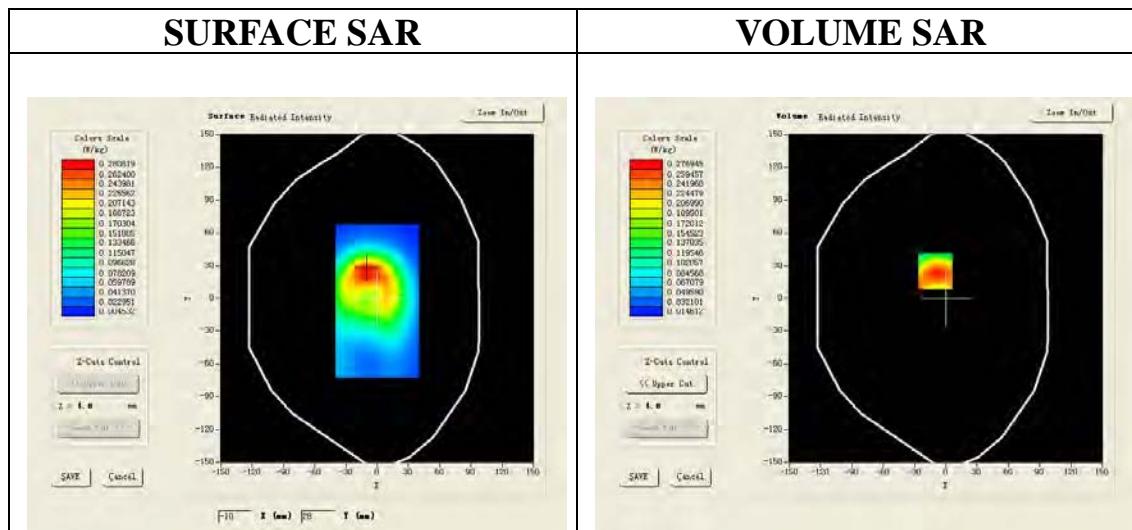
SATIMO Configuration:

- Probe: EP165; Calibrated: 01/31/2013
- Sensor-Surface: 4mm (Mechanical Surface Detection)
 - Phantom: Flat Phantom; Type: Elliptical Phantom
 - Measurement SW: OpenSAR V4_02_01

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

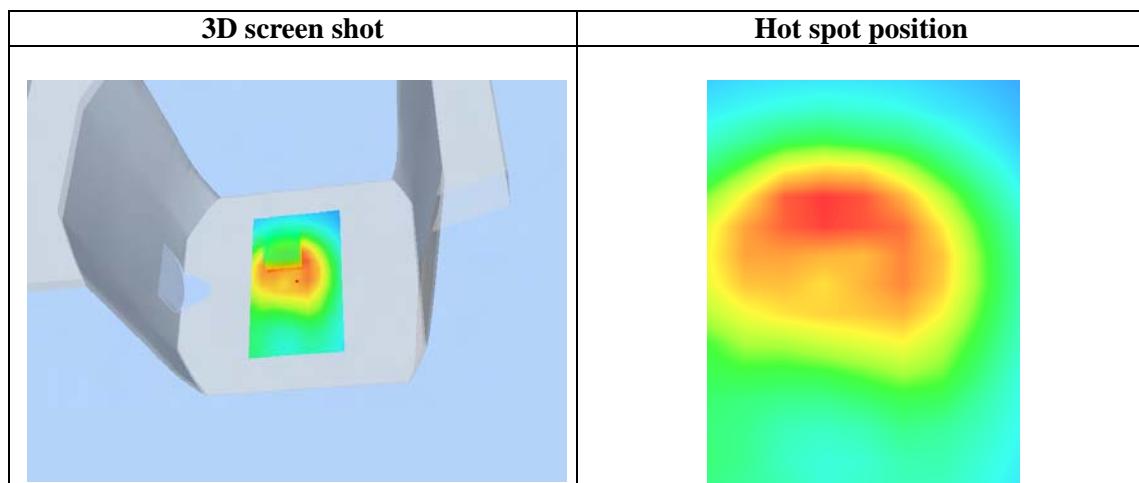
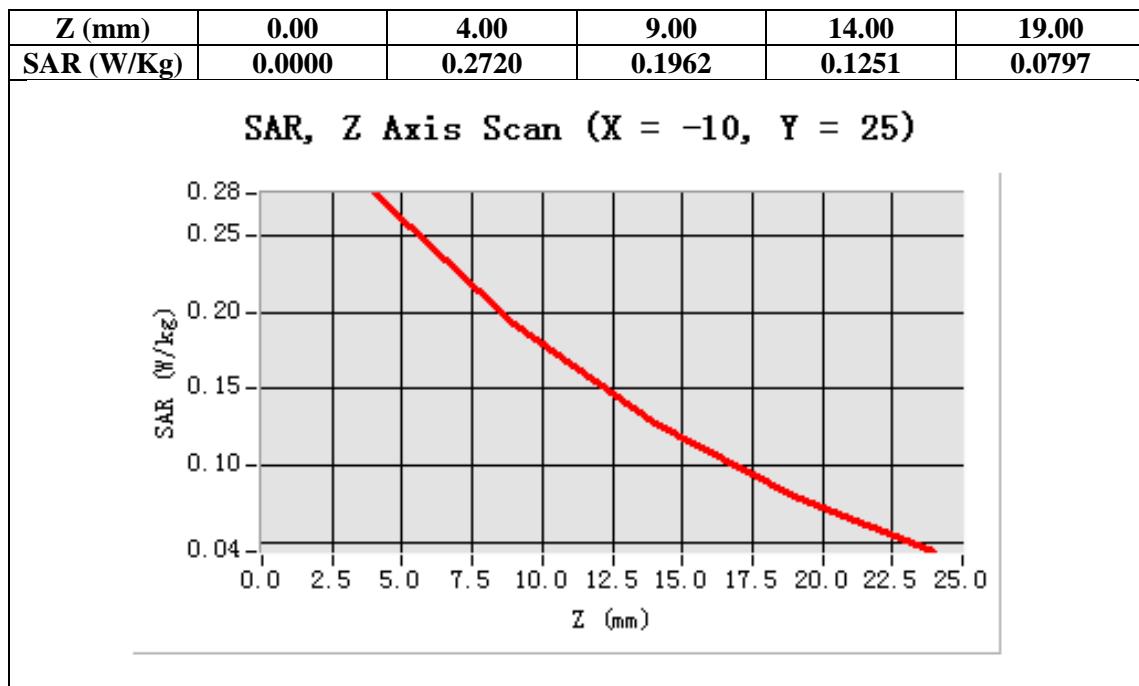
Configuration/PCS1900 Mid-Body-Back/Zoom Scan: Measurement grid: dx=8mm, dy=8mm, dz=5mm;

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



Maximum location: X=-10.00, Y=25.00

SAR 10g (W/Kg)	0.164284
SAR 1g (W/Kg)	0.265724



Test Laboratory: AGC Lab
PCS 1900 Mid-Body -Front (MS) <SIM 1>
DUT: Smart Phone; Type: Galapad 6

Date: Sep.12, 2013

Communication System: Generic GSM; Communication System Band: PCS 1900; Duty Cycle: 1:8.3; Conv.F=4.84;
Frequency: 1880 MHz; Medium parameters used: $f = 1900$ MHz; $\sigma = 1.53$ mho/m; $\epsilon_r = 54.12$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section
Ambient temperature (°C): 21.0, Liquid temperature (°C): 21.0

SATIMO Configuration:

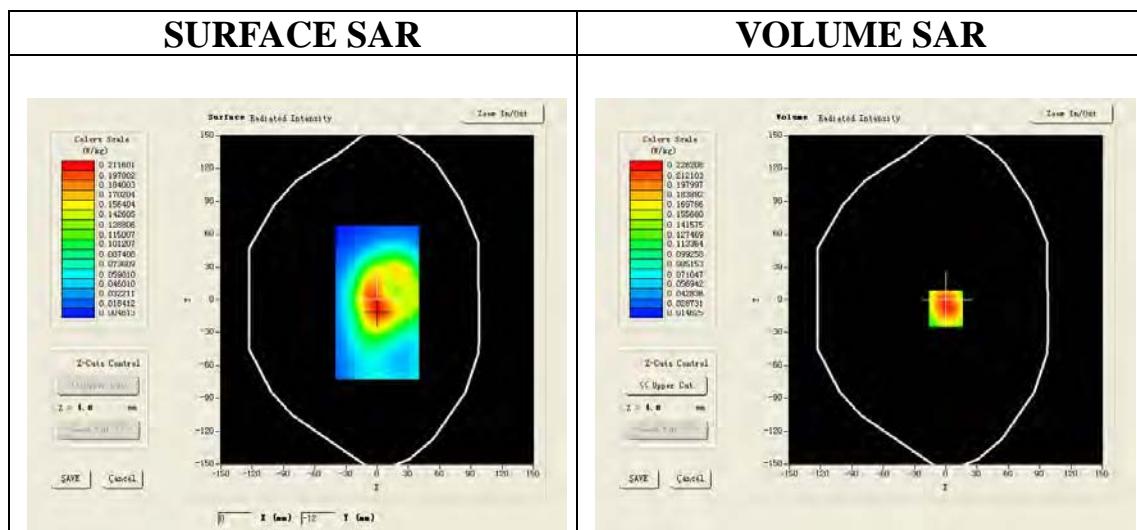
Probe: EP165; Calibrated: 01/31/2013

- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: Flat Phantom; Type: Elliptical Phantom
- Measurement SW: OpenSAR V4_02_01

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

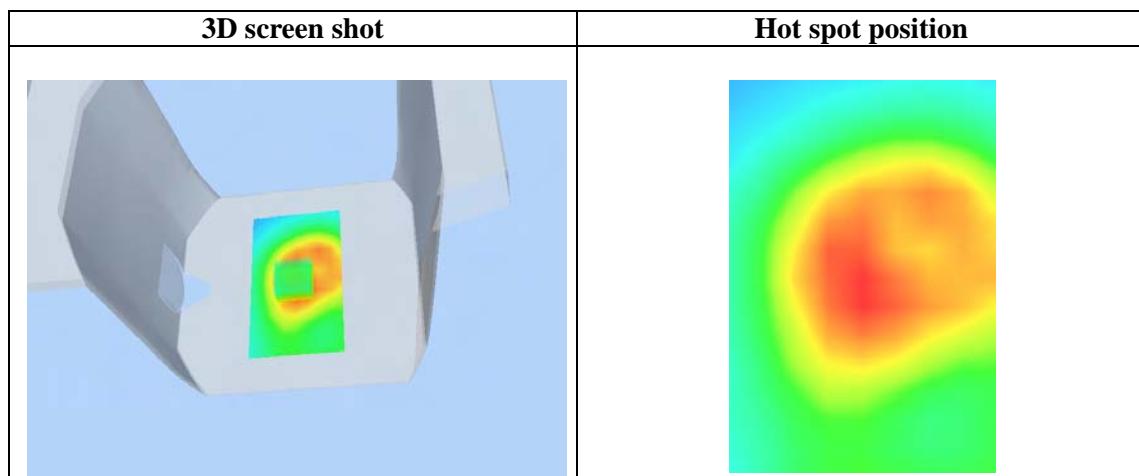
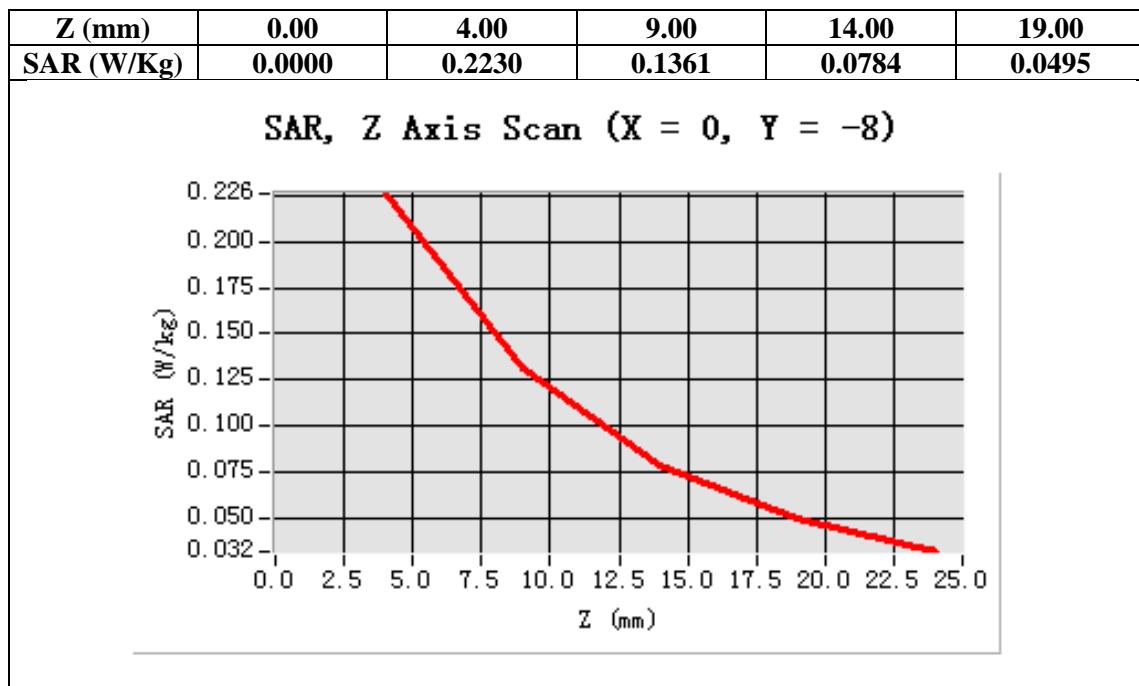
Configuration/PCS1900 Mid-Body- Front /Zoom Scan: Measurement grid: dx=8mm, dy=8mm, dz=5mm;

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



Maximum location: X=0.00, Y=-8.00

SAR 10g (W/Kg)	0.123128
SAR 1g (W/Kg)	0.214273



Test Laboratory: AGC Lab
WCDMA Band II Mid-Touch-Left (RMC)
DUT: Smart Phone; Type: Galapad 6

Date: Sep.12, 2013

Communication System: UMTS; Communication System Band: Band II UTRA/FDD ;Duty Cycle:1:1;Conv.F=4.72 Frequency: 1880 MHz; Medium parameters used: $f = 1900$ MHz; $\sigma = 1.38$ mho/m; $\epsilon_r = 40.33$; $\rho = 1000$ kg/m³ ; Phantom section: Left Section
Ambient temperature (°C):21, Liquid temperature (°C):21

SATIMO Configuration:

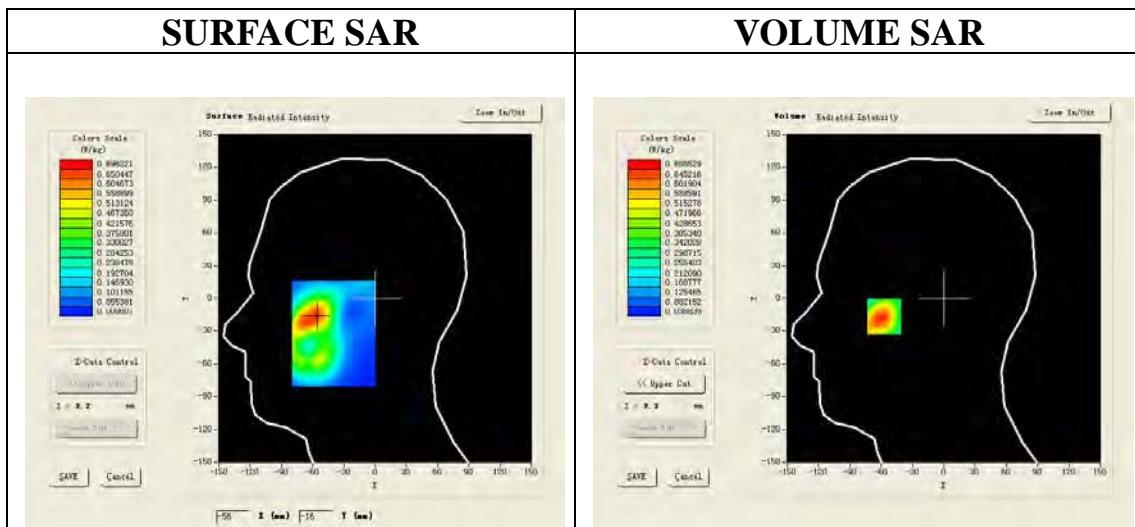
Probe: EP165; Calibrated: 01/31/2013

- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: Flat Phantom; Type: Elliptical Phantom
- Measurement SW: OpenSAR V4_02_01

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

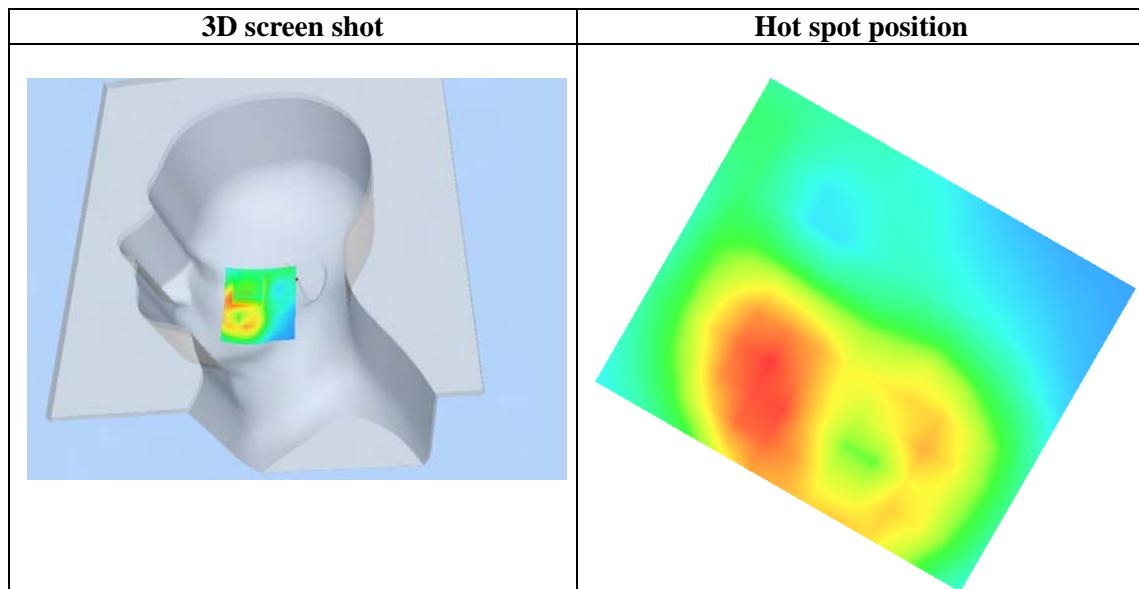
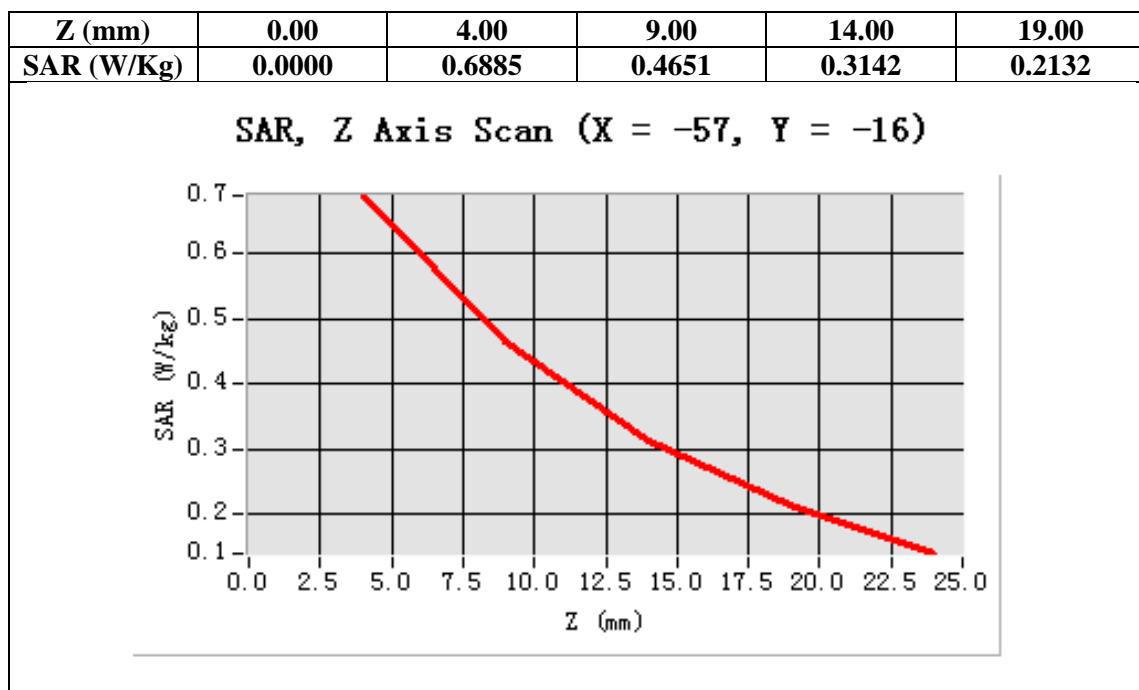
**Configuration/ WCDMA Band II Mid-Touch-Left/Zoom Scan: Measurement grid:
dx=8mm,dy=8mm,dz=5mm;**

Area Scan	sam_direct_droit2_surf8mm.txt
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Very fast
Phantom	Left head
Device Position	Cheek
Band	WCDMA Band II
Channels	Middle
Signal	TDMA (Crest factor: 1.0)



Maximum location: X=-57.00, Y=-16.00

SAR 10g (W/Kg)	0.395837
SAR 1g (W/Kg)	0.654217



Test Laboratory: AGC Lab
WCDMA Band II Mid-Tilt-Left (RMC)
DUT: Smart Phone; Type: Galapad 6

Date: Sep.12, 2013

Communication System: UMTS; Communication System Band: Band II UTRA/FDD ;Duty Cycle:1:1; Conv.F=4.72
Frequency: 1880 MHz; Medium parameters used: $f = 1900$ MHz; $\sigma = 1.38$ mho/m; $\epsilon_r = 40.33$; $\rho = 1000$ kg/m³ ;
Phantom section: Left Section
Ambient temperature (°C):21, Liquid temperature (°C):21

SATIMO Configuration:

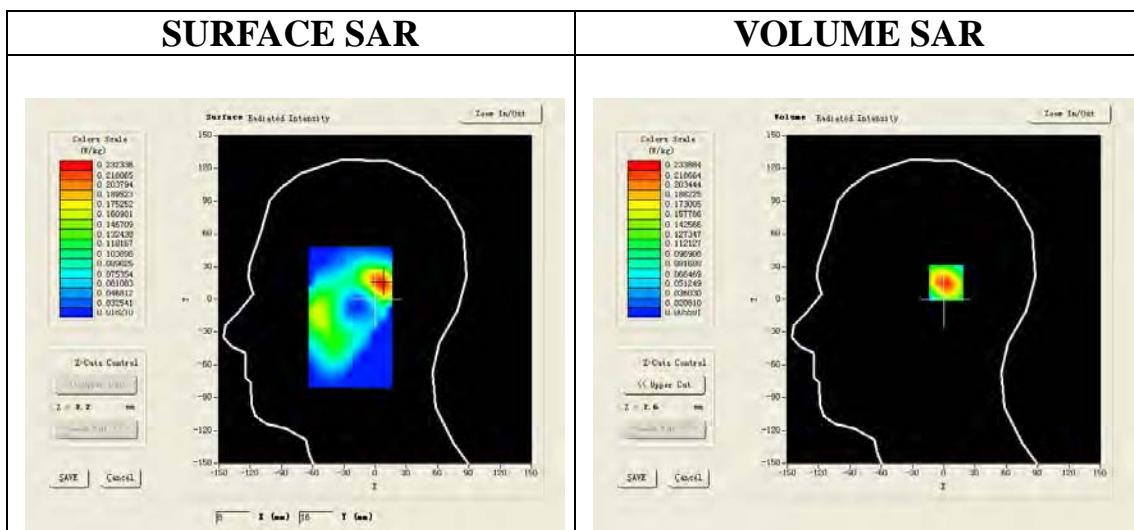
Probe: EP165; Calibrated: 01/31/2013

- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: Flat Phantom; Type: Elliptical Phantom
- Measurement SW: OpenSAR V4_02_01

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

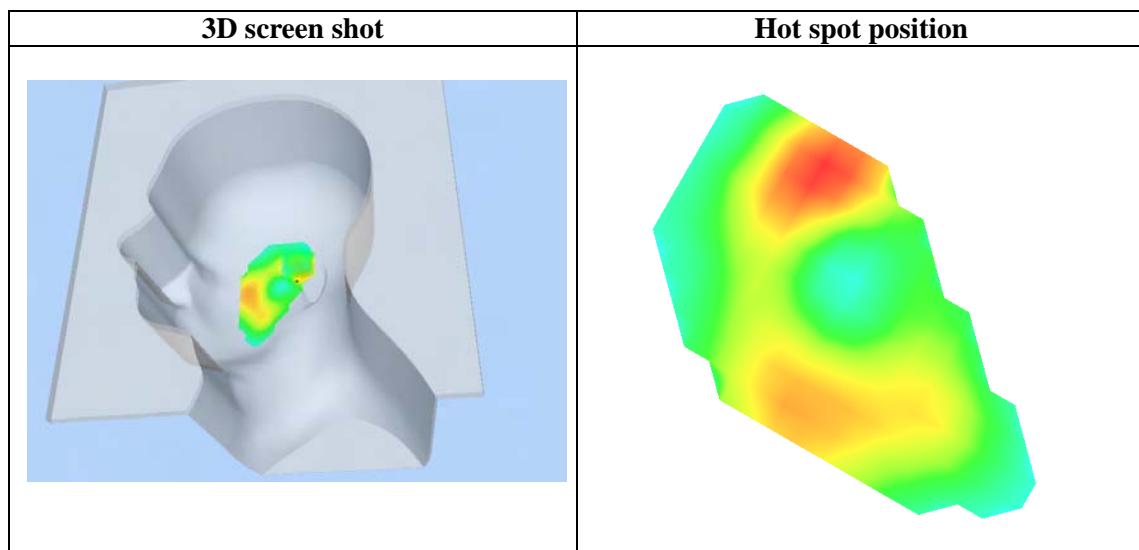
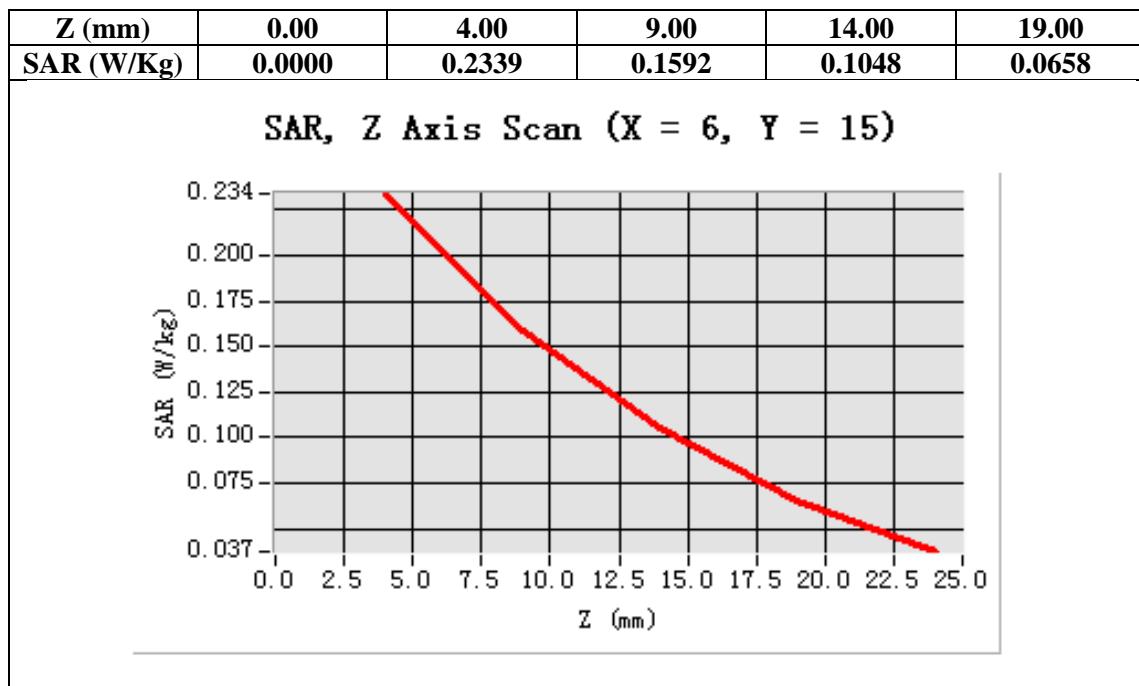
Configuration/ WCDMA Band II Mid-Tilt-Left/Zoom Scan: Measurement grid: dx=8mm, dy=8mm, dz=5mm;

Area Scan	sam_direct_droit2_surf8mm.txt
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Very fast
Phantom	Left head
Device Position	Tilt
Band	WCDMA Band II
Channels	Middle
Signal	TDMA (Crest factor: 1.0)



Maximum location: X=6.00, Y=15.00

SAR 10g (W/Kg)	0.126274
SAR 1g (W/Kg)	0.215843



Test Laboratory: AGC Lab
WCDMA Band II Low-Touch-Right (RMC)
DUT: Smart Phone; Type: Galapad 6

Date: Sep.12, 2013

Communication System: UMTS; Communication System Band: Band II UTRA/FDD ;Duty Cycle:1:1; Conv.F=4.72 Frequency: 1852.4 MHz; Medium parameters used: $f = 1900$ MHz; $\sigma = 1.38$ mho/m; $\epsilon_r = 40.33$; $\rho = 1000$ kg/m³ ; Phantom section: Right Section
Ambient temperature (°C):21, Liquid temperature (°C):21

SATIMO Configuration:

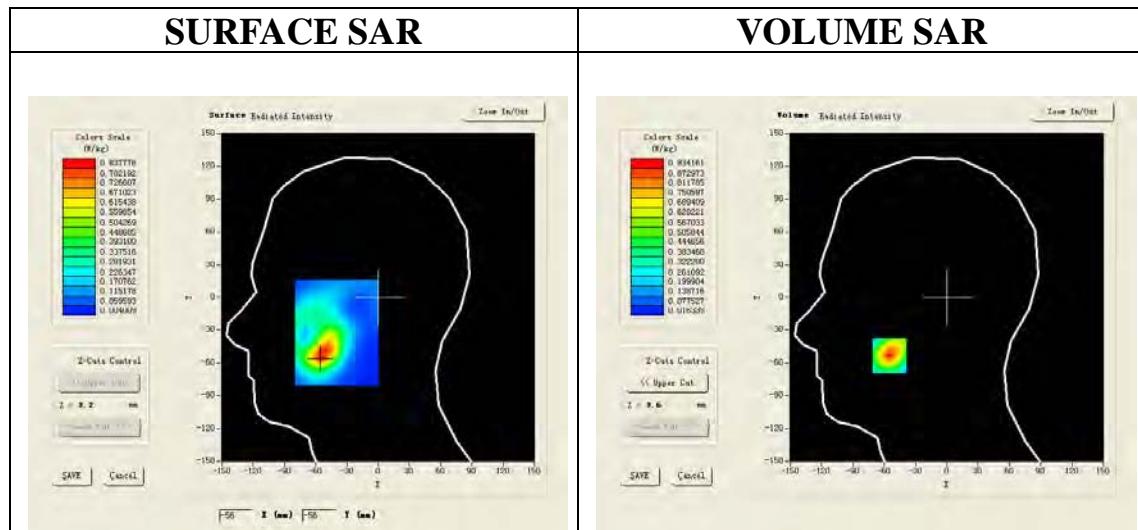
Probe: EP165; Calibrated: 01/31/2013

- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: Flat Phantom; Type: Elliptical Phantom
- Measurement SW: OpenSAR V4_02_01

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

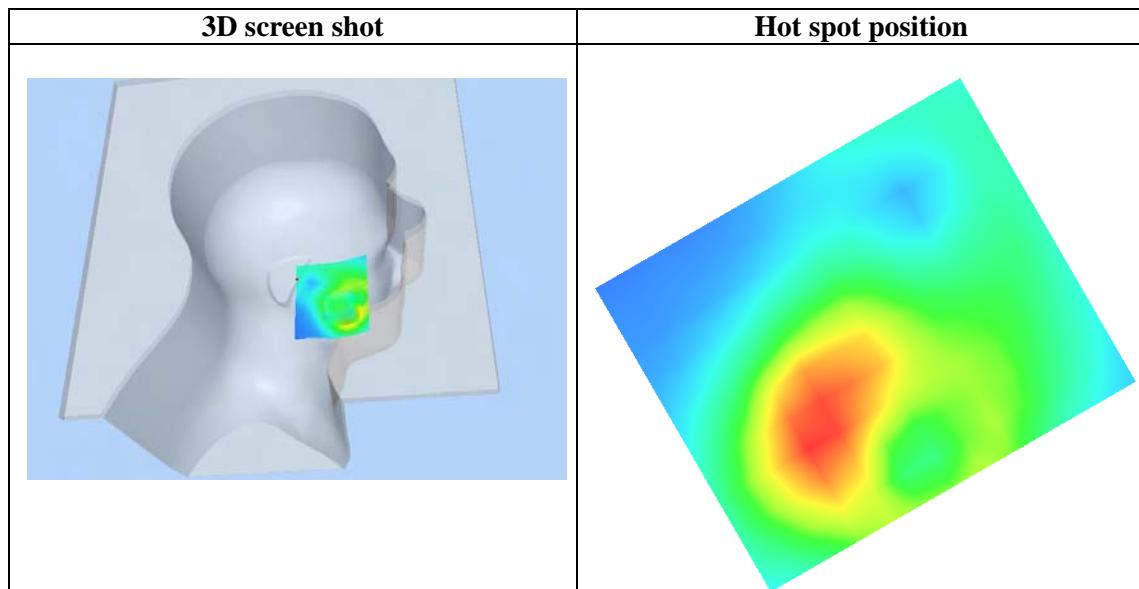
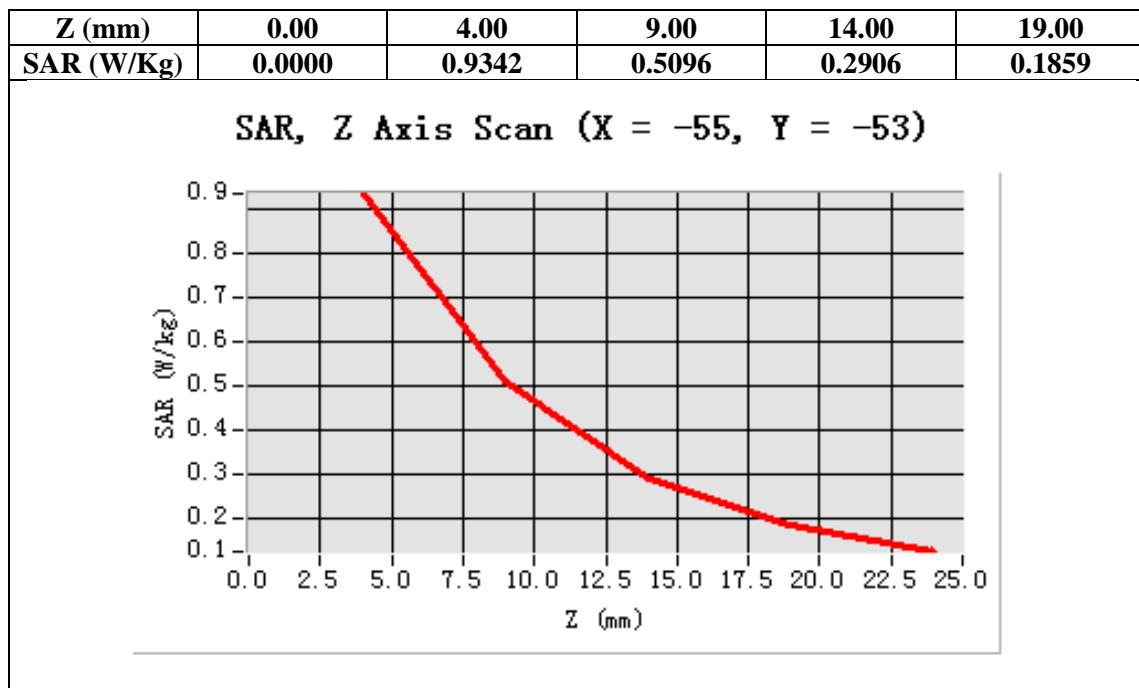
Configuration/ WCDMA band II Low-Touch-Right/Zoom Scan: Measurement grid: dx=8mm, dy=8mm, dz=5mm;

Area Scan	sam_direct_droit2_surf8mm.txt
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Very fast
Phantom	Right head
Device Position	Cheek
Band	WCDMA band II
Channels	Low
Signal	TDMA (Crest factor: 1.0)



Maximum location: X=-55.00, Y=-53.00

SAR 10g (W/Kg)	0.452307
SAR 1g (W/Kg)	0.864271



Test Laboratory: AGC Lab
WCDMA Band II Mid-Touch-Right (RMC)
DUT: Smart Phone; Type: Galapad 6

Date: Sep.12, 2013

Communication System: UMTS; Communication System Band: Band II UTRA/FDD ;Duty Cycle:1:1; Conv.F=4.72 Frequency: 1880 MHz; Medium parameters used: $f = 1900$ MHz; $\sigma = 1.38$ mho/m; $\epsilon_r = 40.33$; $\rho = 1000$ kg/m³ ; Phantom section: Right Section Ambient temperature (°C):21, Liquid temperature (°C):21

SATIMO Configuration:

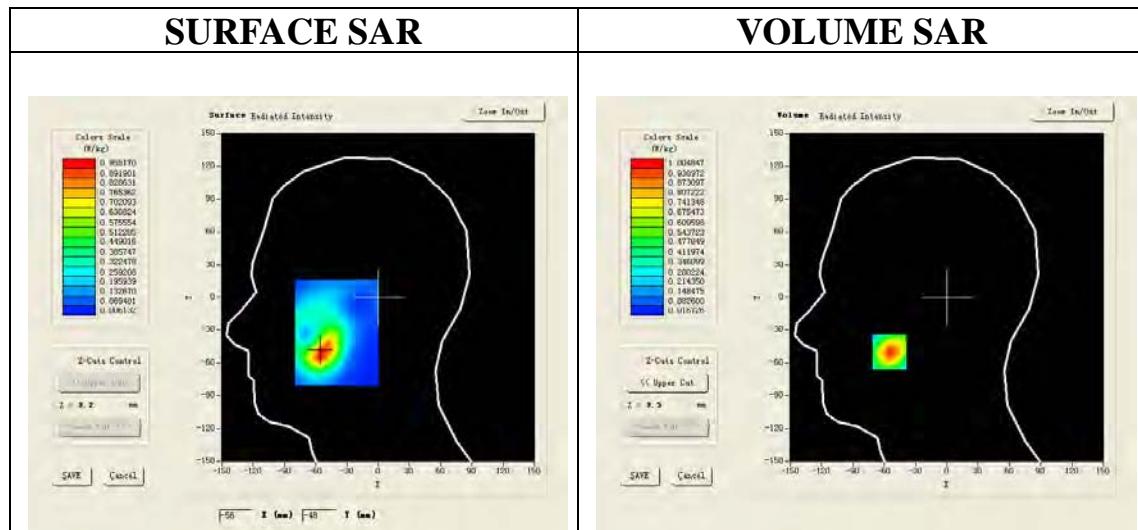
Probe: EP165; Calibrated: 01/31/2013

- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: Flat Phantom; Type: Elliptical Phantom
- Measurement SW: OpenSAR V4_02_01

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

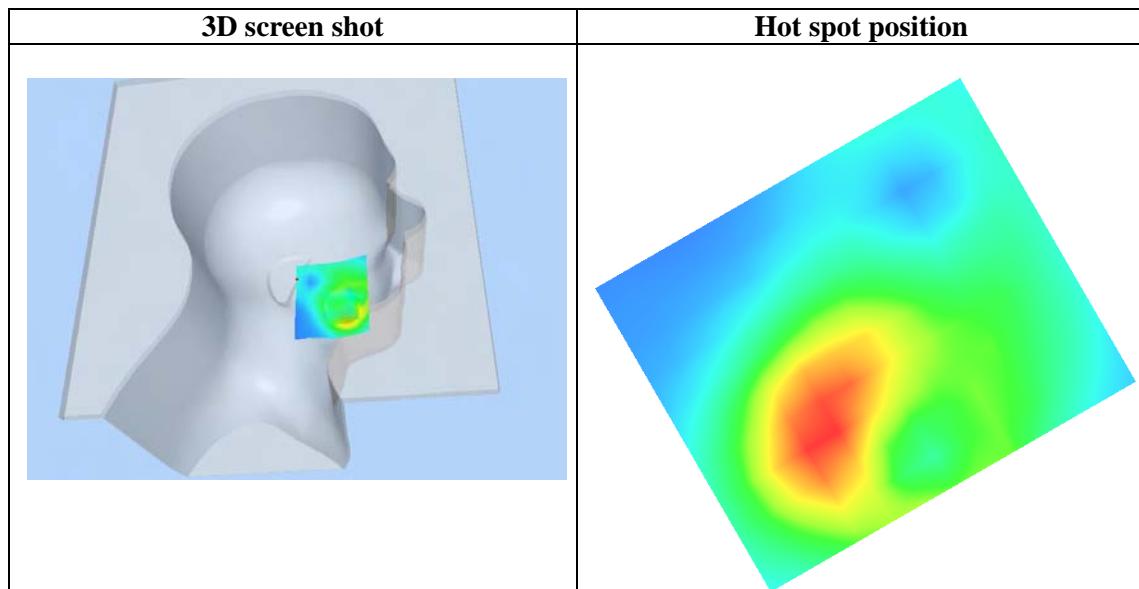
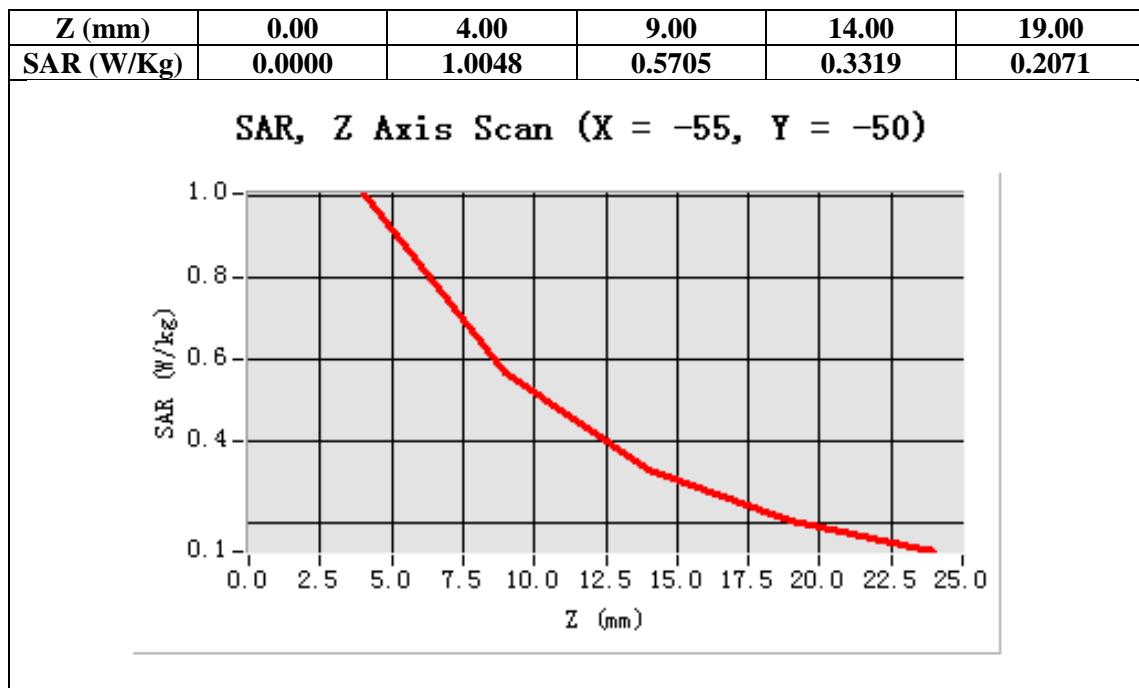
Configuration/ WCDMA band II Mid-Touch-Right/Zoom Scan: Measurement grid: dx=8mm, dy=8mm, dz=5mm;

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



Maximum location: X=-55.00, Y=-50.00

SAR 10g (W/Kg)	0.496271
SAR 1g (W/Kg)	0.932846



Test Laboratory: AGC Lab
WCDMA Band II High-Touch-Right (RMC)
DUT: Smart Phone; Type: Galapad 6

Date: Sep.12, 2013

Communication System: UMTS; Communication System Band: Band II UTRA/FDD ;Duty Cycle:1:1; Conv.F=4.72
Frequency: 1907.6 MHz; Medium parameters used: $f = 1900$ MHz; $\sigma = 1.38$ mho/m; $\epsilon_r = 40.33$; $\rho = 1000$ kg/m³ ;
Phantom section: Right Section
Ambient temperature (°C):21, Liquid temperature (°C):21

SATIMO Configuration:

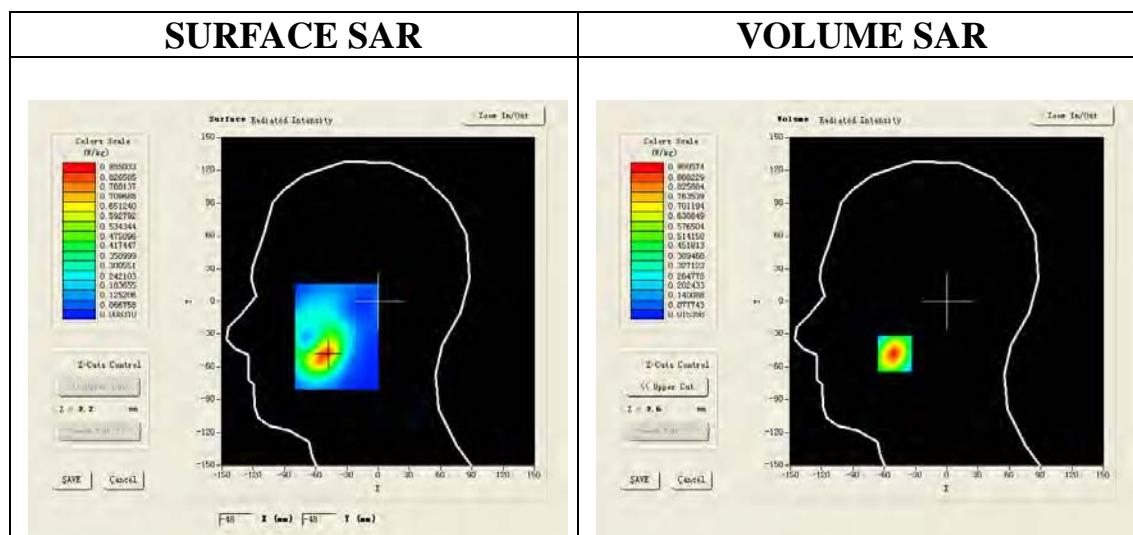
Probe: EP165; Calibrated: 01/31/2013

- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: Flat Phantom; Type: Elliptical Phantom
- Measurement SW: OpenSAR V4_02_01

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

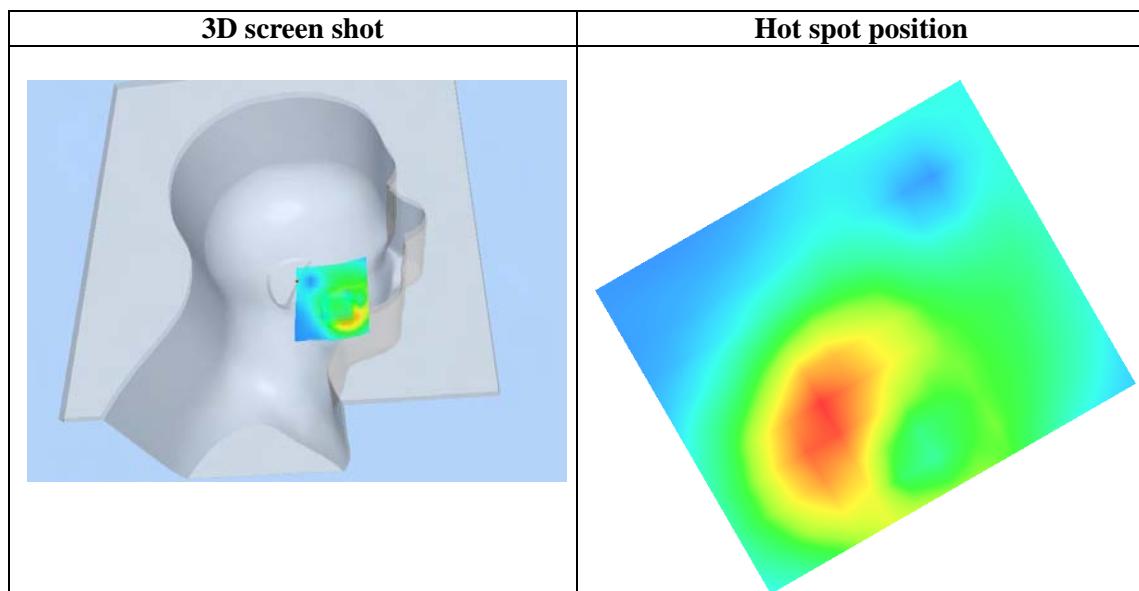
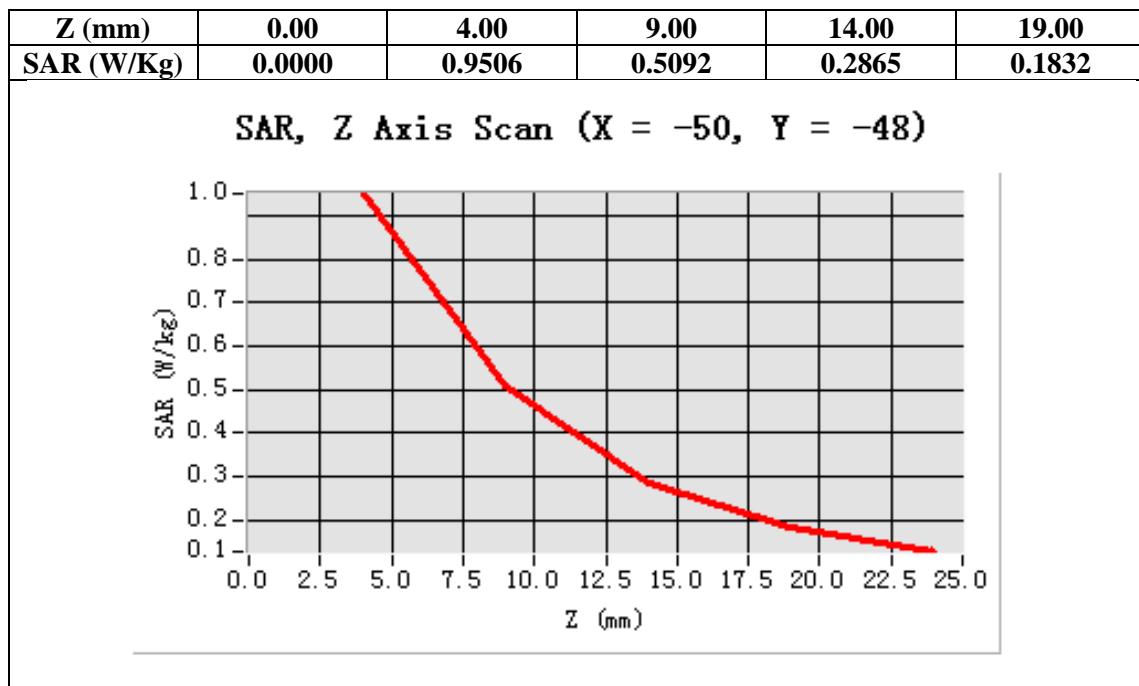
Configuration/ WCDMA band II High-Touch-Right/Zoom Scan: Measurement grid: dx=8mm, dy=8mm, dz=5mm;

Area Scan	sam_direct_droit2_surf8mm.txt
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Very fast
Phantom	Right head
Device Position	Cheek
Band	WCDMA band II
Channels	High
Signal	TDMA (Crest factor: 1.0)



Maximum location: X=-50.00, Y=-48.00

SAR 10g (W/Kg)	0.456271
SAR 1g (W/Kg)	0.882248



Test Laboratory: AGC Lab
WCDMA Band II Mid-Tilt-Right <RMC>
DUT: Smart Phone; Type: Galapad 6

Date: Sep.12, 2013

Communication System: UMTS; Communication System Band: Band II UTRA/FDD ;Duty Cycle:1:1; Conv.F=4.72
Frequency: 1880 MHz; Medium parameters used: $f = 1900$ MHz; $\sigma = 1.38$ mho/m; $\epsilon_r = 40.33$; $\rho = 1000$ kg/m³ ;
Phantom section: Right Section
Ambient temperature (°C):21, Liquid temperature (°C):21

SATIMO Configuration:

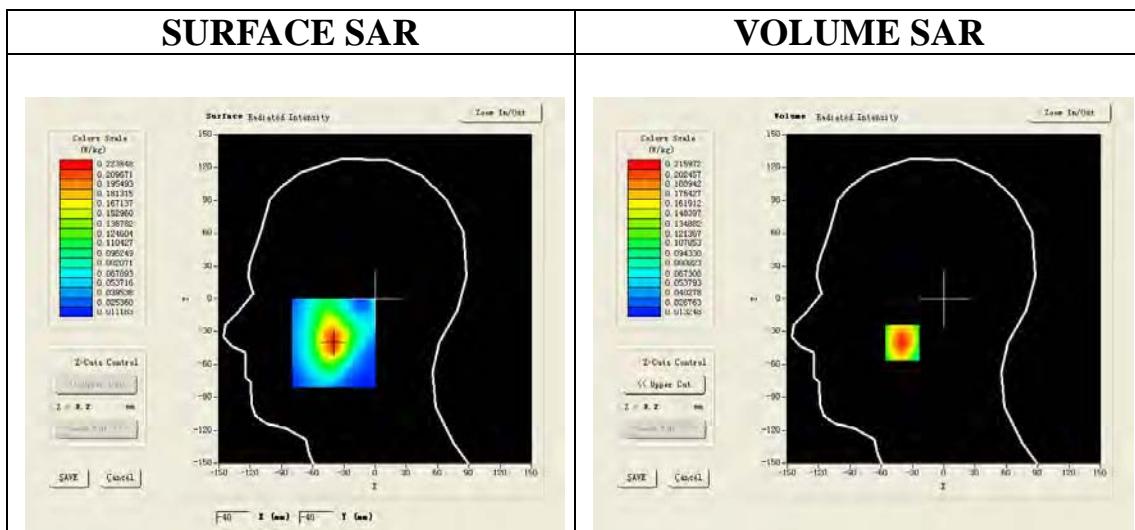
Probe: EP165; Calibrated: 01/31/2013

- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: Flat Phantom; Type: Elliptical Phantom
- Measurement SW: OpenSAR V4_02_01

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

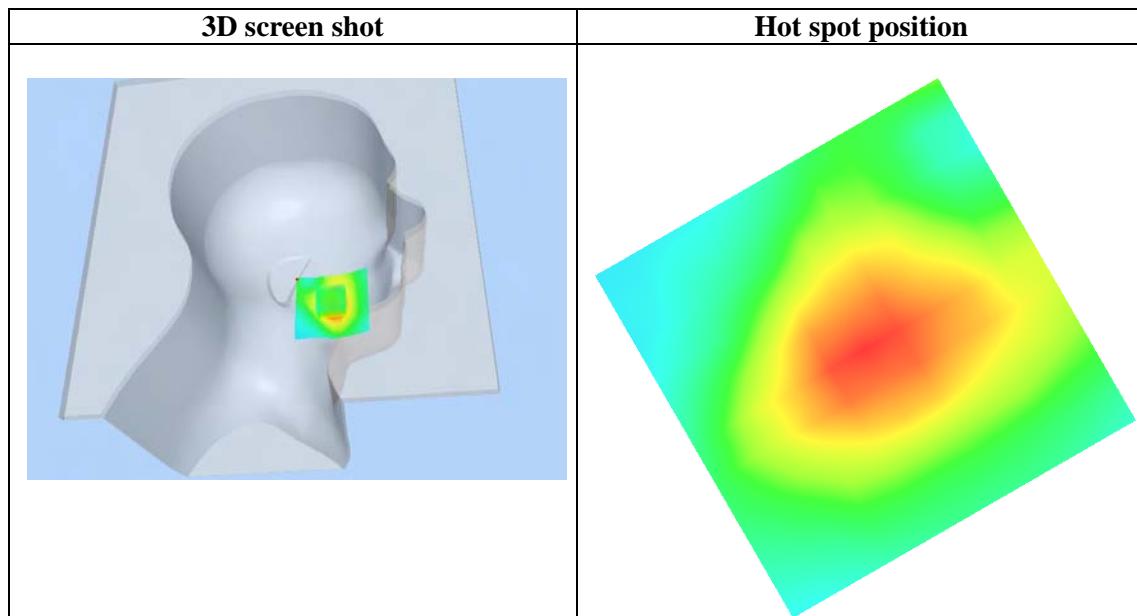
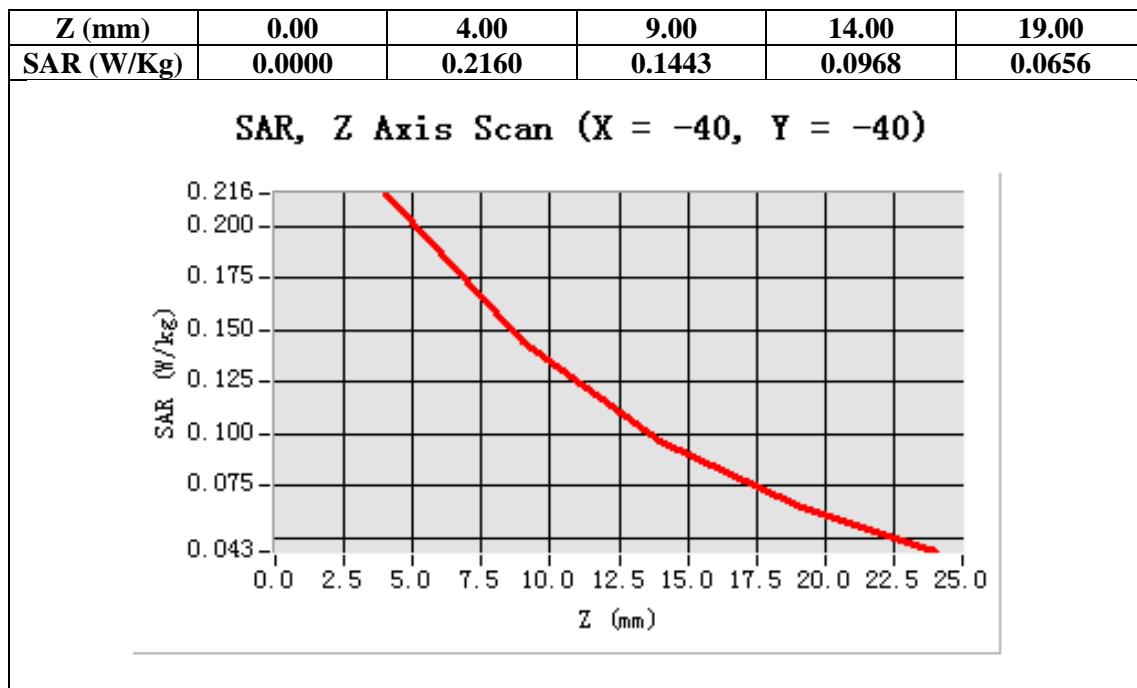
Configuration/PCS1900 Mid-Tilt-Right/Zoom Scan: Measurement grid: dx=8mm, dy=8mm, dz=5mm;

Area Scan	sam_direct_droit2_surf8mm.txt
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Very fast
Phantom	Right head
Device Position	Tilt
Band	WCDMA band II
Channels	Middle
Signal	TDMA (Crest factor: 1.0)



Maximum location: X=-40.00, Y=-40.00

SAR 10g (W/Kg)	0.124281
SAR 1g (W/Kg)	0.202846



Test Laboratory: AGC Lab
WCDMA Band II Mid-Body-Towards Grounds (RMC)
DUT: Smart Phone; Type: Galapad 6

Date: Sep.12, 2013

Communication System: UMTS; Communication System Band: Band II UTRA/FDD ;Duty Cycle:1:1; ConvF=4.84
Frequency: 1880 MHz; Medium parameters used: $f = 1900$ MHz; $\sigma=1.53$ mho/m; $\epsilon_r =54.12$; $\rho= 1000$ kg/m³ ;
Phantom section: Flat Section
Ambient temperature (°C):21, Liquid temperature (°C):21

SATIMO Configuration:

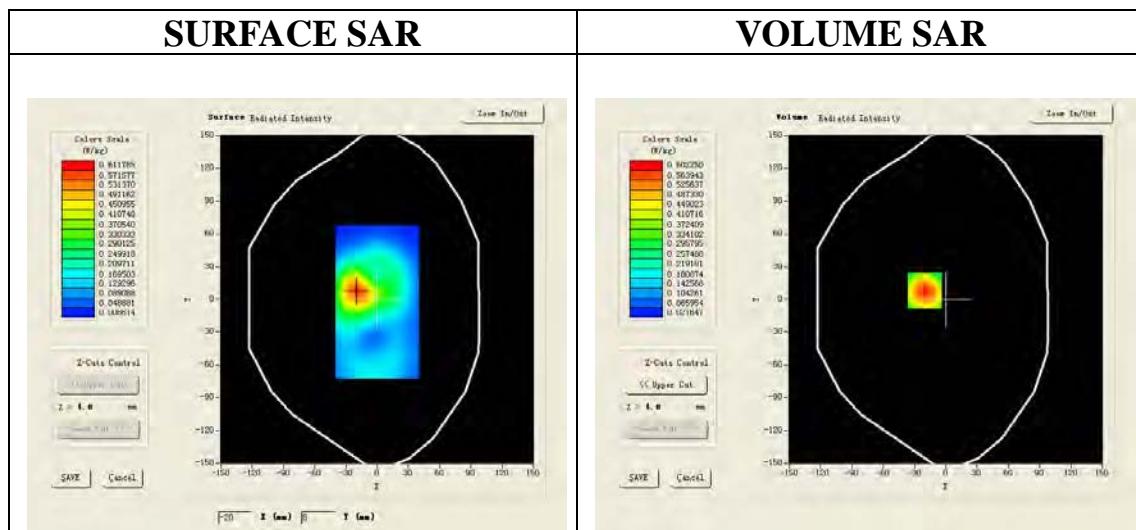
Probe: EP165; Calibrated: 01/31/2013

- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: Flat Phantom; Type: Elliptical Phantom
- Measurement SW: OpenSAR V4_02_01

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

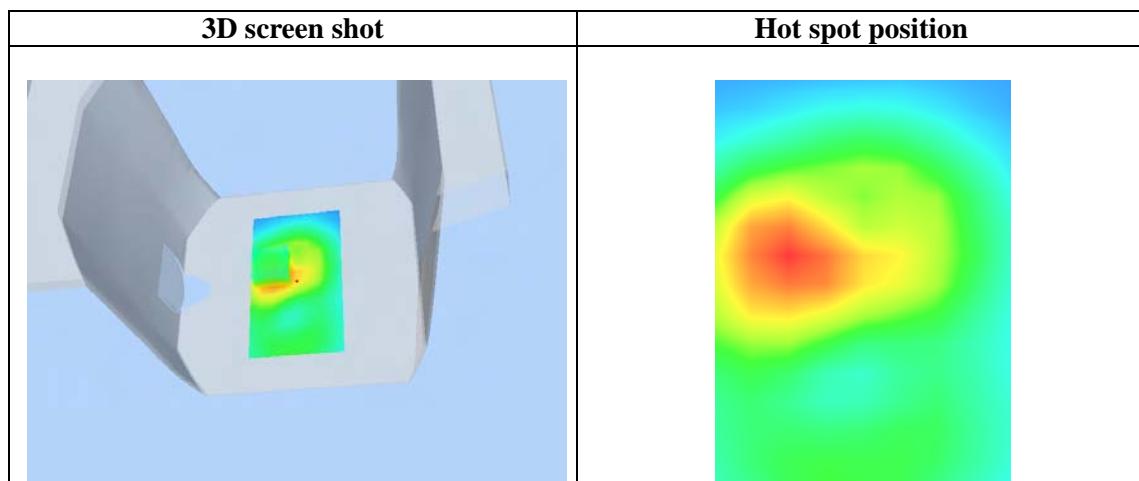
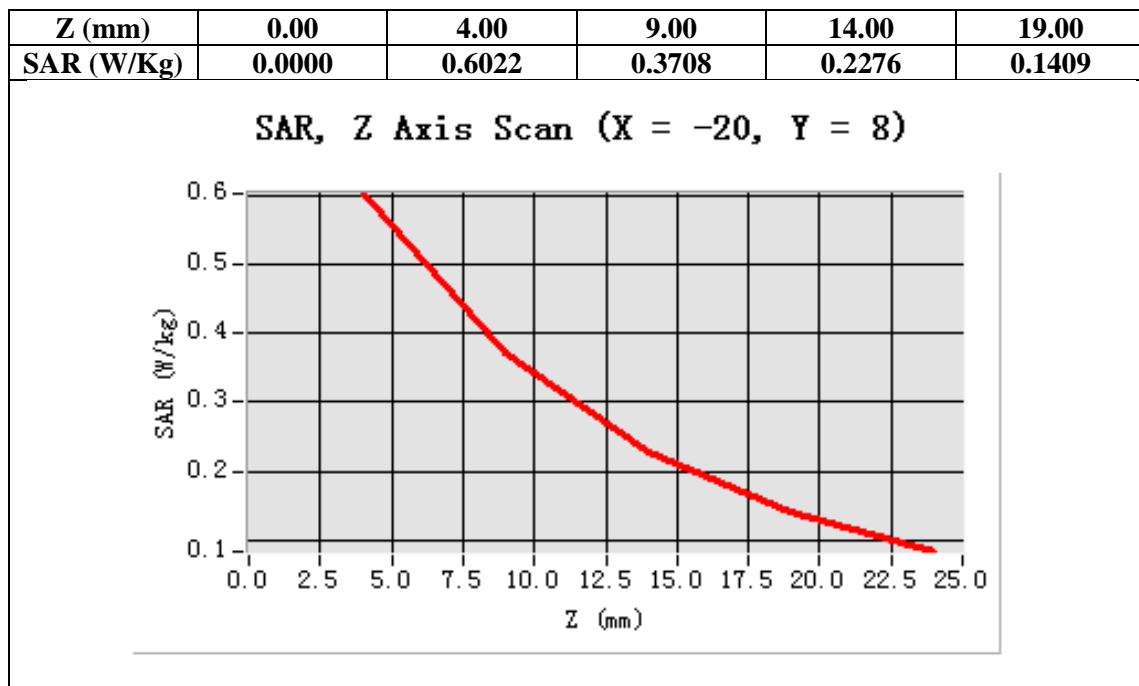
Configuration/ WCDMA band II Mid-Body-back/Zoom Scan: Measurement grid: dx=8mm, dy=8mm, dz=5m;

Area Scan	surf_sam_plan.txt
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Very fast
Phantom	Validation plane
Device Position	Body Back
Band	WCDMA band II
Channels	Middle
Signal	TDMA (Crest factor: 1.0)



Maximum location: X=-20.00, Y=8.00

SAR 10g (W/Kg)	0.354627
SAR 1g (W/Kg)	0.613854



Test Laboratory: AGC Lab
WCDMA Band II Mid-Body-Towards Phantom (RMC)
DUT: Smart Phone; Type: Galapad 6

Date: Sep.12, 2013

Communication System: UMTS; Communication System Band: Band II UTRA/FDD ;Duty Cycle:1:1; ConvF=4.84
Frequency: 1880 MHz; Medium parameters used: $f = 1900$ MHz; $\sigma=1.53$ mho/m; $\epsilon_r =54.12$; $\rho= 1000$ kg/m³ ;
Phantom section: Flat Section
Ambient temperature (°C):21, Liquid temperature (°C):21

SATIMO Configuration:

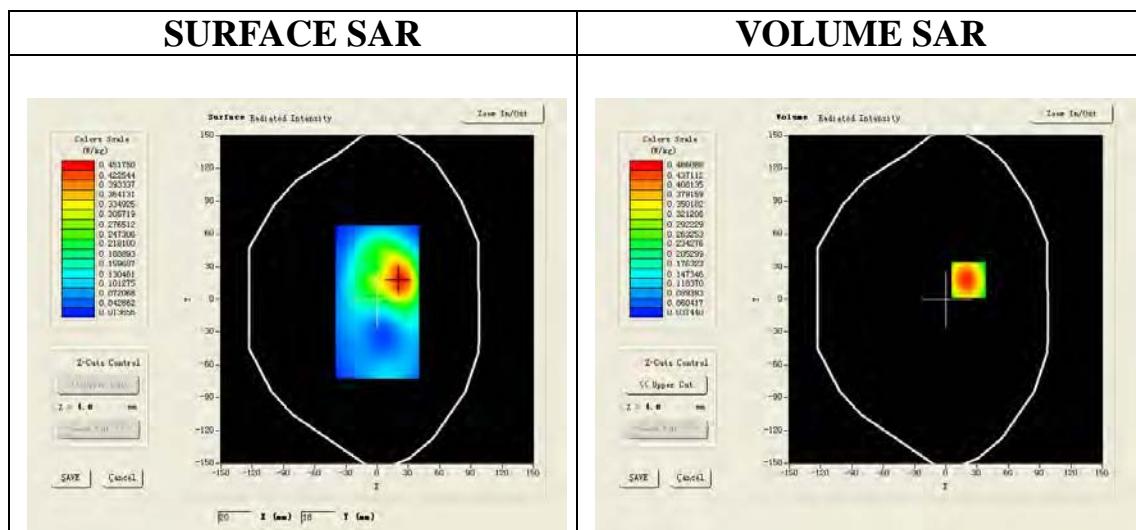
Probe: EP165; Calibrated: 01/31/2013

- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: Flat Phantom; Type: Elliptical Phantom
- Measurement SW: OpenSAR V4_02_01

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

Configuration/ WCDMA band II Mid-Body-Front/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 Front
Band	WCDMA band II
Channels	Middle
Signal	TDMA (Crest factor: 1.0)

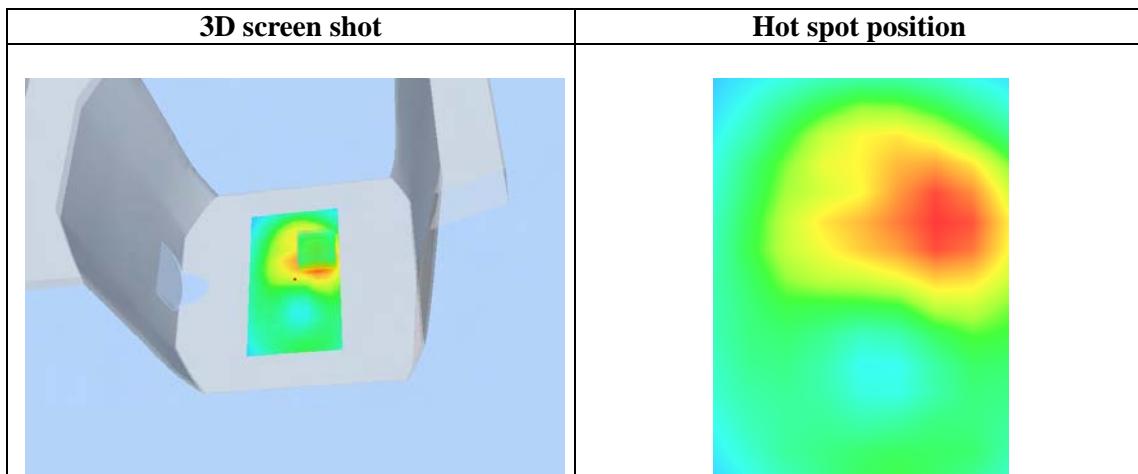
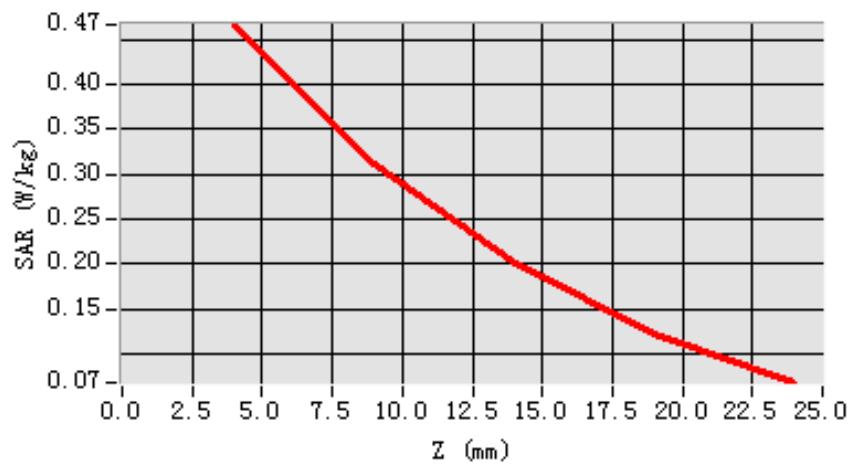


Maximum location: X=22.00, Y=18.00

SAR 10g (W/Kg)	0.292024
SAR 1g (W/Kg)	0.478948

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.4661	0.3109	0.2006	0.1234

SAR, Z Axis Scan (X = 22, Y = 18)



Test Laboratory: AGC Lab

Date: Sep.12, 2013

WCDMA Band V Mid-Touch-Left (RMC)

DUT: Smart Phone; Type: Galapad 6

Communication System: UMTS; Communication System Band: BAND V UTRA/FDD ; Duty Cycle:1: 1; Conv.F=5.30 Frequency: 835 MHz; Medium parameters used: $f = 850$ MHz; $\sigma=0.91$ mho/m; $\epsilon_r =39.97$; $\rho= 1000$ kg/m³ ;

Phantom section: Left Section

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

SATIMO Configuration:

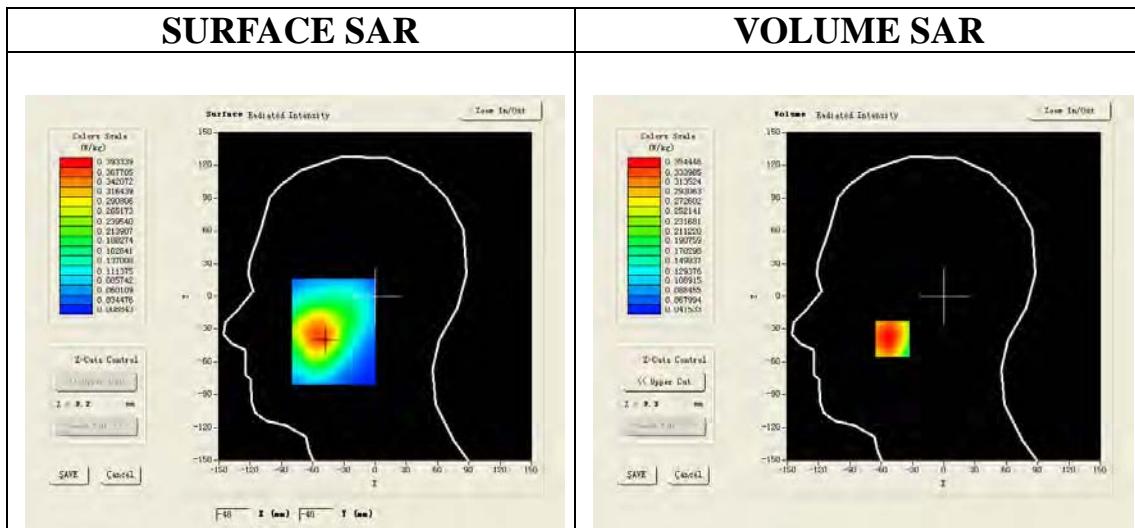
Probe: EP165; Calibrated: 01/31/2013

- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: Flat Phantom; Type: Elliptical Phantom
- Measurement SW: OpenSAR V4_02_01

Configuration/ WCDMA Band V Mid-Touch-Left/Area Scan (6x8x1): Measurement grid: dx=8mm, dy=8mm

Configuration/ WCDMA Band V 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	WCDMA Band V
Channels	Middle
Signal	TDMA (Crest factor: 1.0)

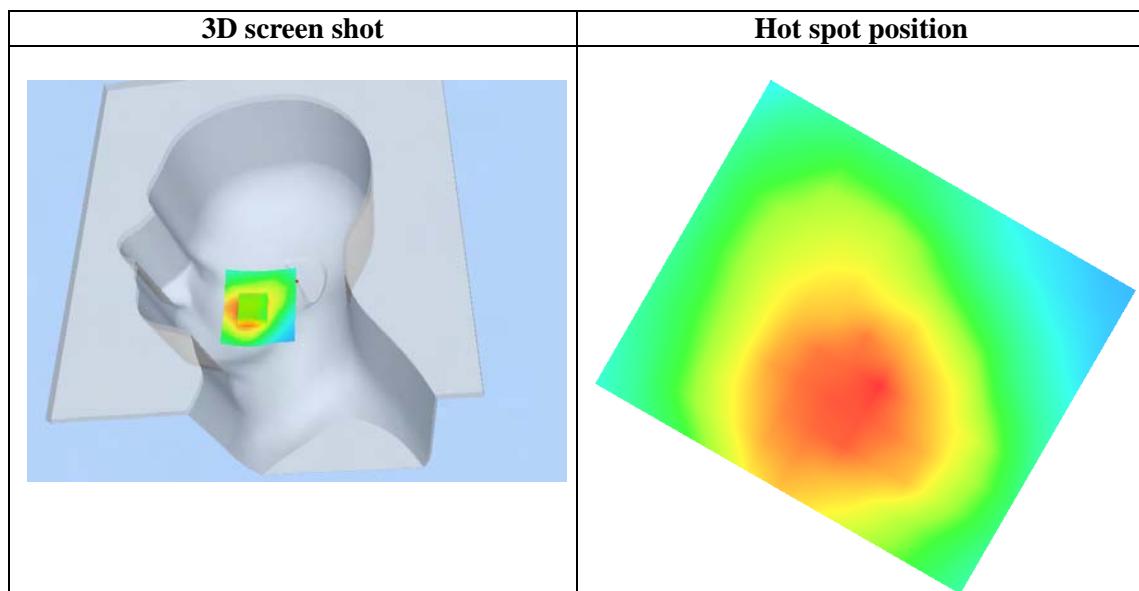
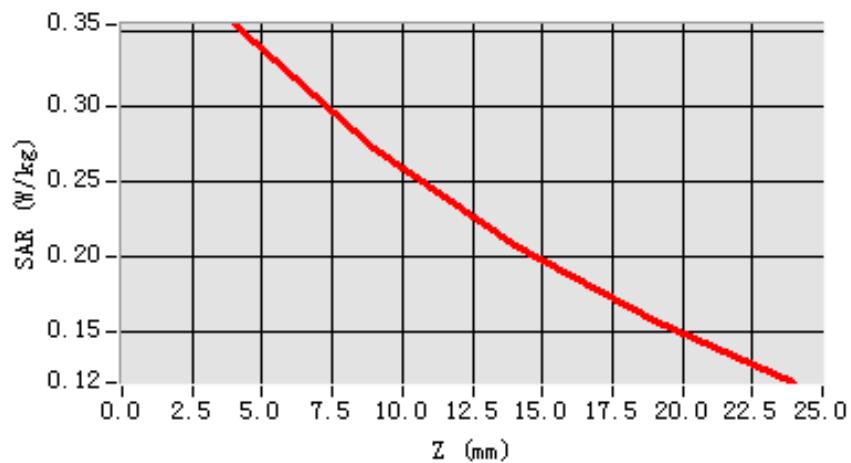


Maximum location: X=-49.00, Y=-39.00

SAR 10g (W/Kg)	0.245284
SAR 1g (W/Kg)	0.344276

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.3544	0.2716	0.2072	0.1572

SAR, Z Axis Scan (X = -49, Y = -39)



Test Laboratory: AGC Lab
WCDMA Band V Mid-Tilt-Left (RMC)
DUT: Smart Phone; Type: Galapad 6

Date: Sep.12, 2013

Communication System: UMTS; Communication System Band: BAND V UTRA/FDD ; Duty Cycle:1: 1; Conv.F=5.30
Frequency: 835 MHz; Medium parameters used: $f = 850$ MHz; $\sigma=0.91$ mho/m; $\epsilon_r =39.97$; $\rho= 1000$ kg/m³ ;
Phantom section: Left Section
Ambient temperature (°C): 21, Liquid temperature (°C): 21

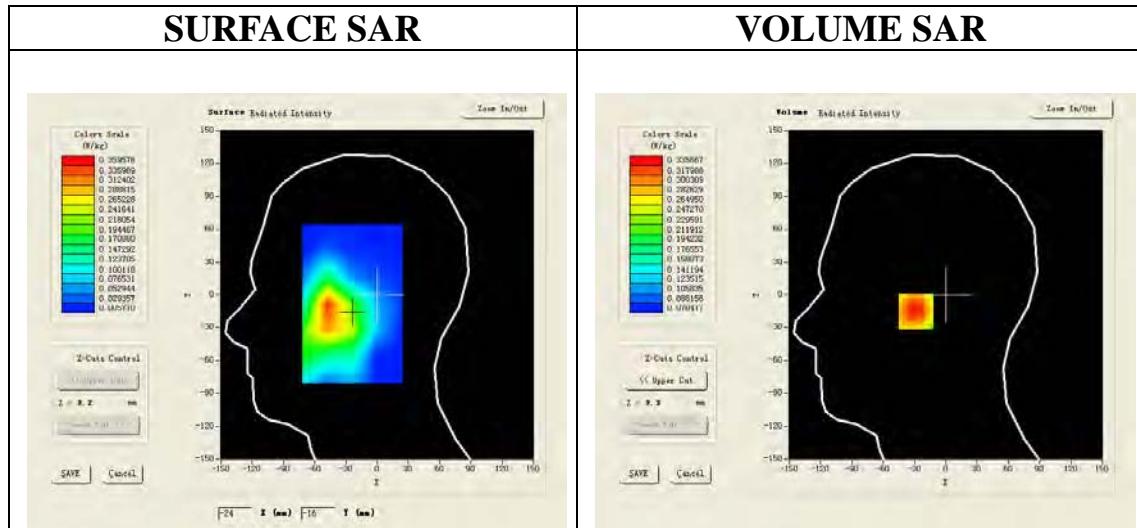
SATIMO Configuration:

Probe: EP165; Calibrated: 01/31/2013

- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: Flat Phantom; Type: Elliptical Phantom
- Measurement SW: OpenSAR V4_02_01

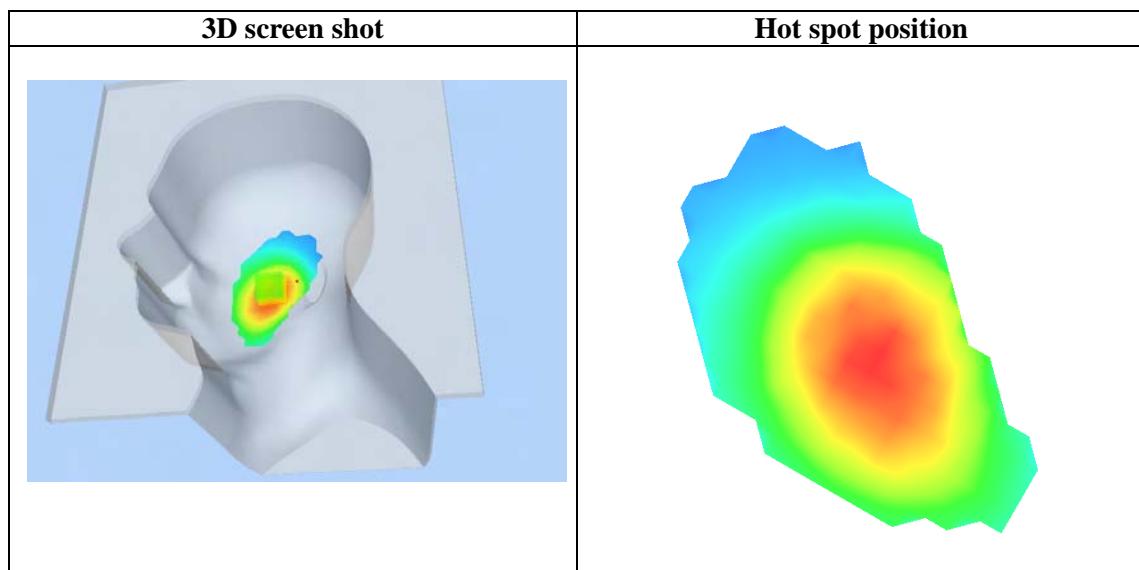
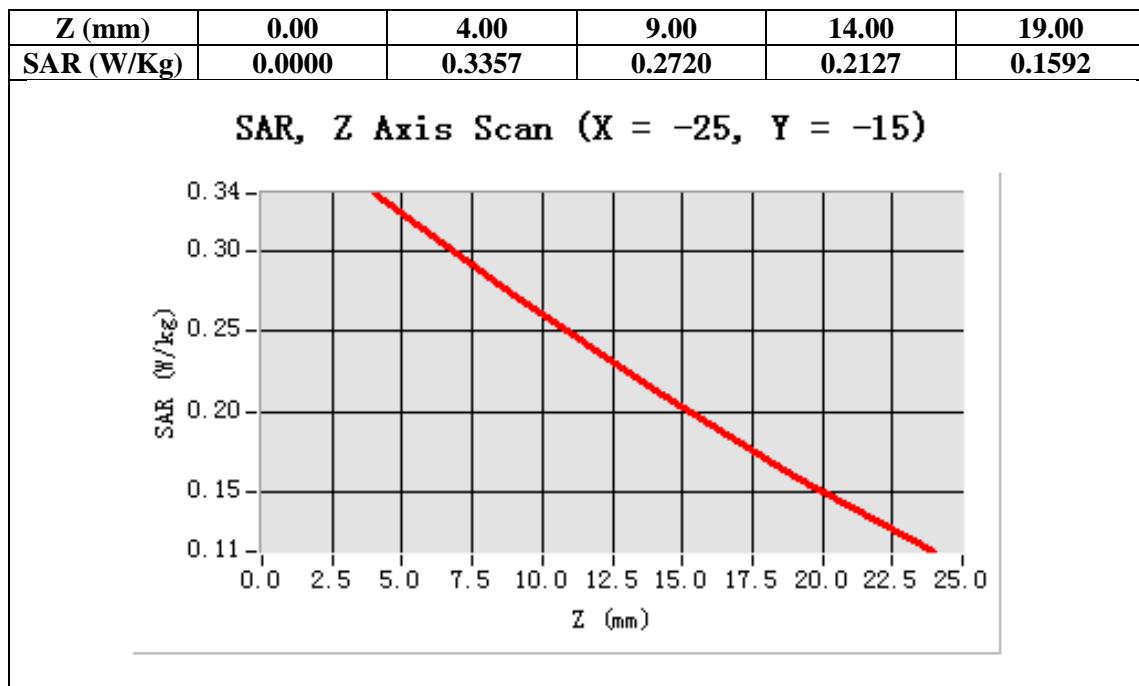
Configuration/ WCDMA Band V Mid-Tilt-Left/Area Scan (6x8x1): Measurement grid: dx=8mm, dy=8mm
Configuration/ WCDMA Band V Mid-Tilt-Left/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm;

Area Scan	sam_direct_droit2_surf8mm.txt
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Very fast
Phantom	Left head
Device Position	Tilt
Band	WCDMA Band V
Channels	Middle
Signal	TDMA (Crest factor: 1.0)



Maximum location: X=-25.00, Y=-15.00

SAR 10g (W/Kg)	0.237246
SAR 1g (W/Kg)	0.322257



Test Laboratory: AGC Lab

Date: Sep.12, 2013

WCDMA Band V Mid-Touch-Right (RMC)

DUT: Smart Phone; Type: Galapad 6

Communication System: UMTS; Communication System Band: BAND V UTRA/FDD ; Duty Cycle:1: 1; Conv.F=5.30
Frequency: 835 MHz; Medium parameters used: $f = 850 \text{ MHz}$; $\sigma = 0.91 \text{ mho/m}$; $\epsilon_r = 39.97$; $\rho = 1000 \text{ kg/m}^3$;
Phantom section: Right Section
Ambient temperature ($^{\circ}\text{C}$): 21, Liquid temperature ($^{\circ}\text{C}$): 21

SATIMO Configuration:

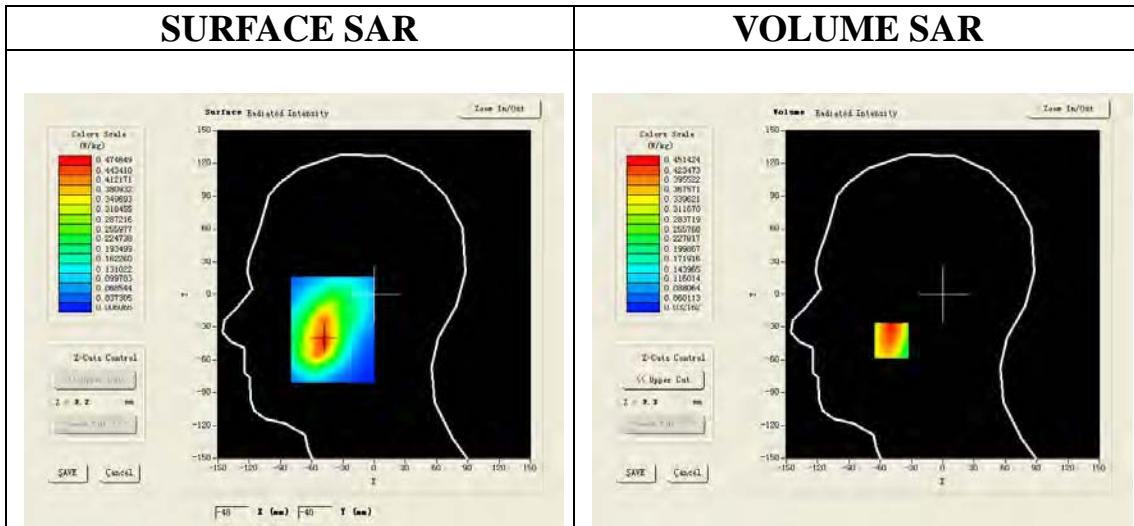
Probe: EP165; Calibrated: 01/31/2013

- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: Flat Phantom; Type: Elliptical Phantom
- Measurement SW: OpenSAR V4_02_01

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

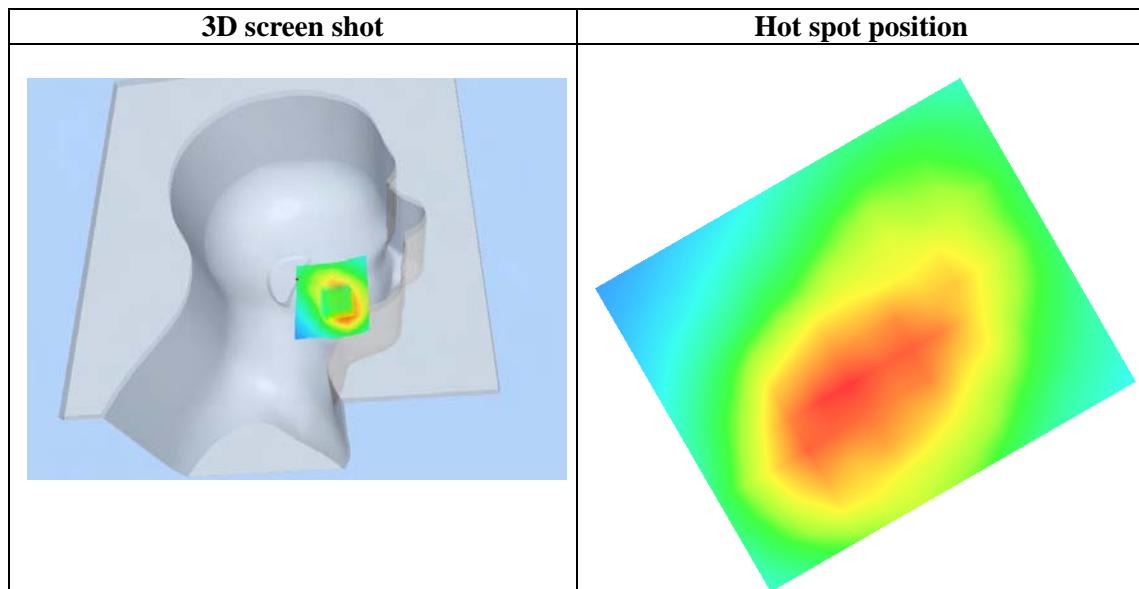
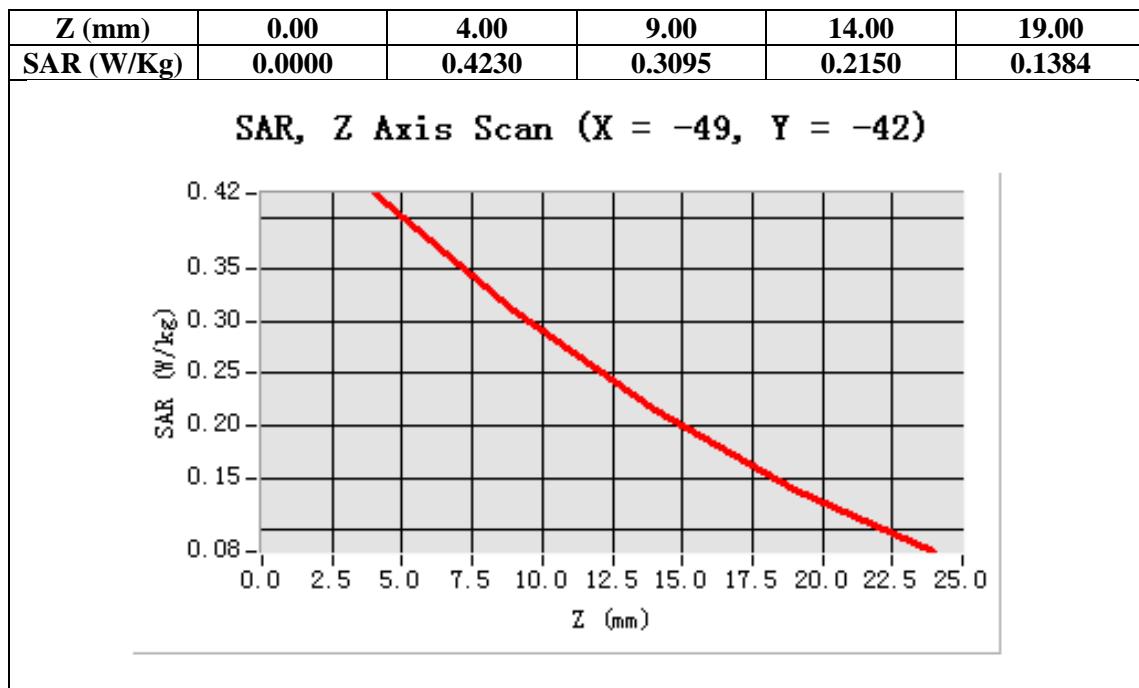
Configuration/ WCDMA Band V Mid-Touch-Right/Zoom Scan: Measurement grid: dx=8mm, dy=8mm, dz=5mm;

Area Scan	sam_direct_droit2_surf8mm.txt
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Very fast
Phantom	Right head
Device Position	Cheek
Band	WCDMA Band V
Channels	Middle
Signal	TDMA (Crest factor: 1.0)



Maximum location: X=-49.00, Y=-42.00

SAR 10g (W/Kg)	0.272576
SAR 1g (W/Kg)	0.427721



Test Laboratory: AGC Lab
WCDMA Band V Mid-Tilt-Right (RMC)
DUT: Smart Phone; Type: Galapad 6

Date: Sep.12, 2013

Communication System: UMTS; Communication System Band: BAND V UTRA/FDD ; Duty Cycle:1: 1; Conv.F=5.30
Frequency: 835 MHz; Medium parameters used: $f = 850$ MHz; $\sigma=0.91$ mho/m; $\epsilon_r =39.97$; $\rho= 1000$ kg/m³ ;
Phantom section: Right Section
Ambient temperature (°C): 21, Liquid temperature (°C): 21

SATIMO Configuration:

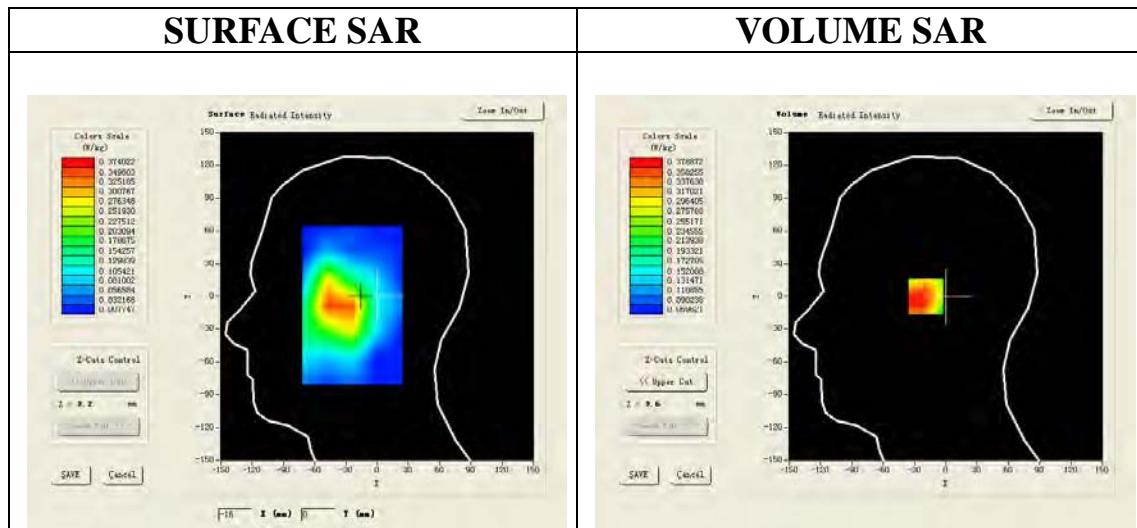
Probe: EP165; Calibrated: 01/31/2013

- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: Flat Phantom; Type: Elliptical Phantom
- Measurement SW: OpenSAR V4_02_01

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

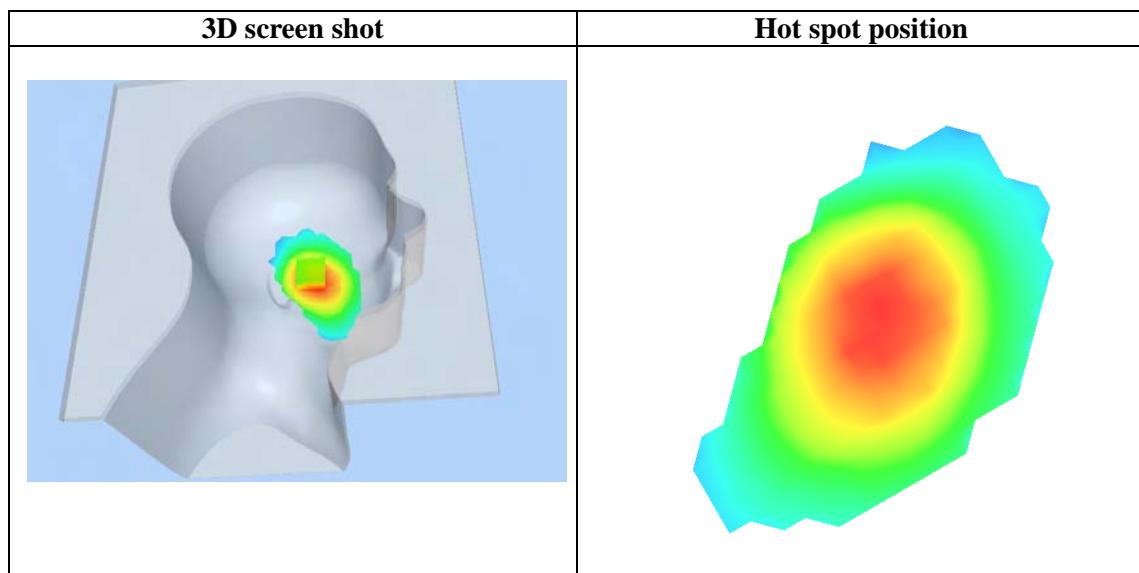
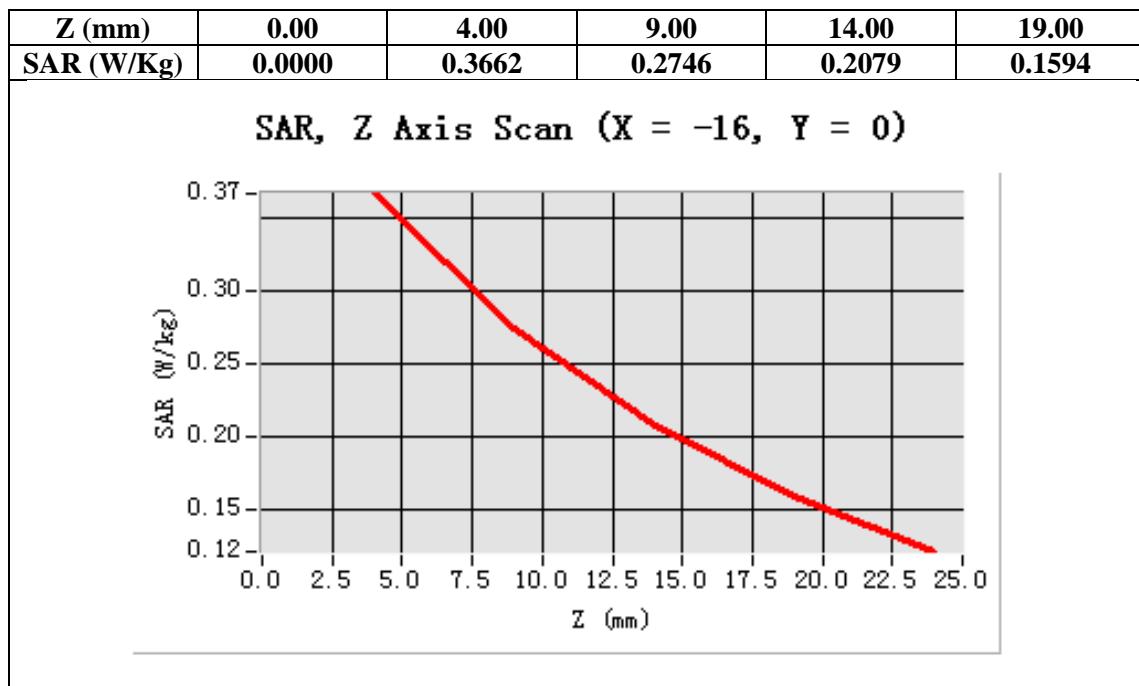
Configuration/ WCDMA Band V Mid-Tilt-Right/Zoom Scan: Measurement grid: dx=8mm, dy=8mm, dz=5mm;

Area Scan	sam_direct_droit2_surf8mm.txt
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Very fast
Phantom	Right head
Device Position	Tilt
Band	WCDMA Band V
Channels	Middle
Signal	TDMA (Crest factor: 1.0)



Maximum location: X=-16.00, Y=0.00

SAR 10g (W/Kg)	0.264127
SAR 1g (W/Kg)	0.365274



Test Laboratory: AGC Lab

Date: Sep.12, 2013

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

DUT: Smart Phone; Type: Galapad 6

Communication System: UMTS; Communication System Band: BAND V UTRA/FDD; Duty Cycle:1: 1; Conv.F=5.46 Frequency: 835 MHz; Medium parameters used: $f = 850 \text{ MHz}$; $\sigma = 0.95 \text{ mho/m}$; $\epsilon_r = 53.26$; $\rho = 1000 \text{ kg/m}^3$;

Phantom section: Flat Section

Ambient temperature ($^{\circ}\text{C}$):21, Liquid temperature ($^{\circ}\text{C}$):21

SATIMO Configuration:

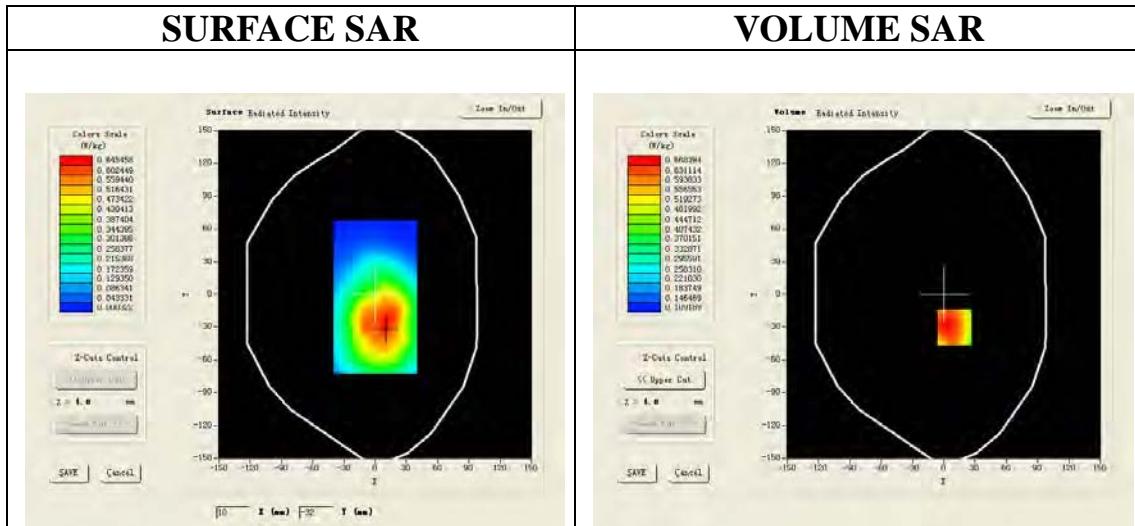
Probe: EP165; Calibrated: 01/31/2013

- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: Flat Phantom; Type: Elliptical Phantom
- Measurement SW: OpenSAR V4_02_01

Configuration/ WCDMA Band V Mid-Body-Front/Area Scan (6x8x1): Measurement grid: dx=8mm, dy=8mm

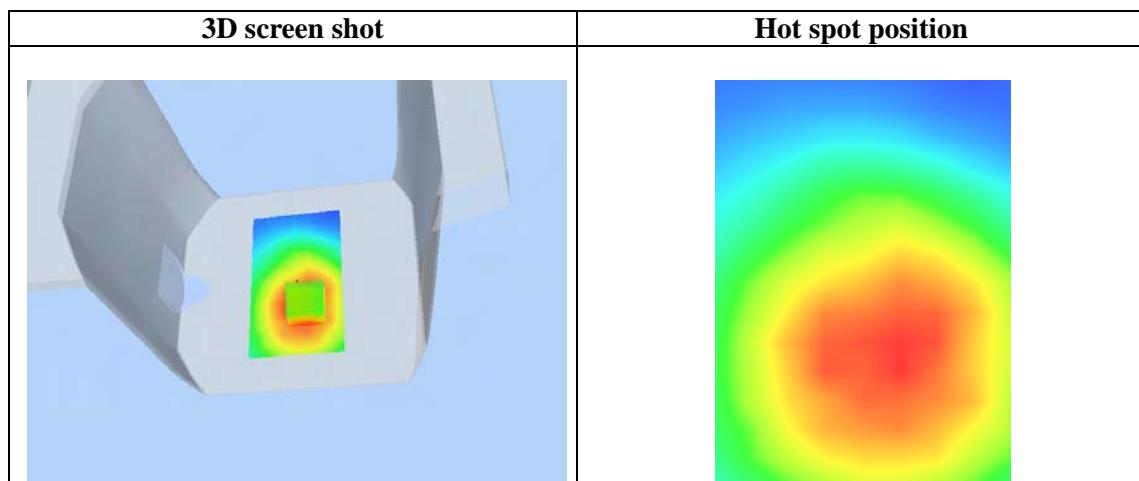
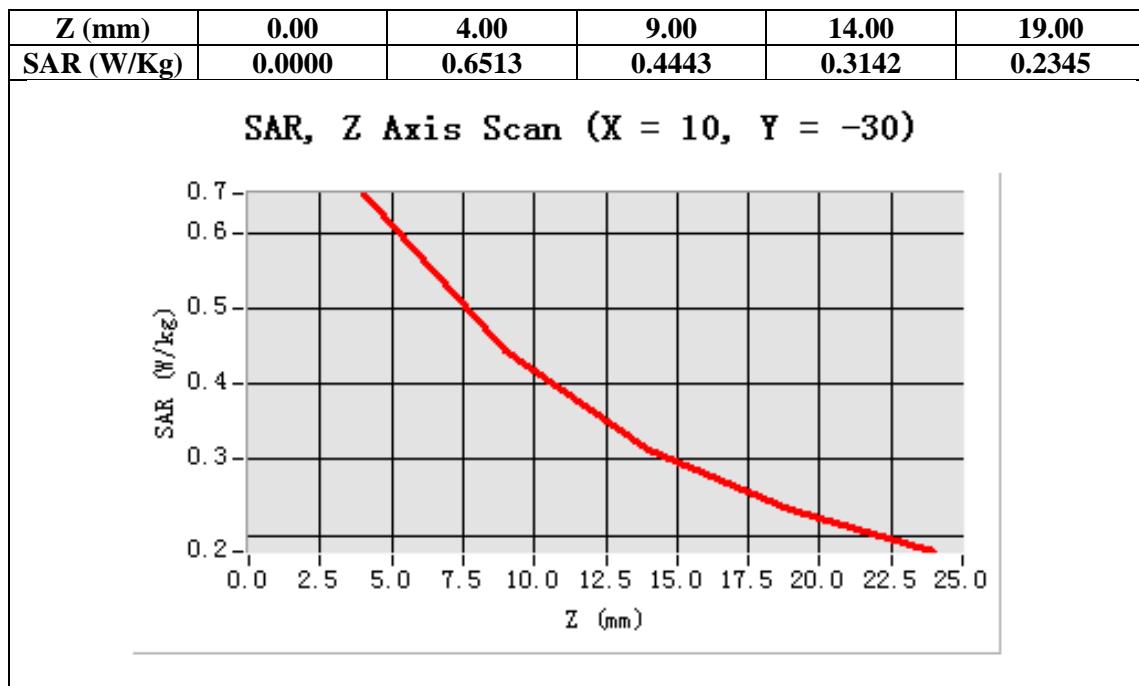
Configuration/ WCDMA Band V Mid-Body-Front/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm,dy=8mm, dz=5mm;

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



Maximum location: X=10.00, Y=-30.00

SAR 10g (W/Kg)	0.481024
SAR 1g (W/Kg)	0.697328



Test Laboratory: AGC Lab

Date: Sep.12, 2013

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

DUT: Smart Phone; Type: Galapad 6

Communication System: UMTS; Communication System Band: BAND V UTRA/FDD ; Duty Cycle:1: 1; Conv.F=5.46 Frequency: 835 MHz; Medium parameters used: $f = 850$ MHz; $\sigma=0.95$ mho/m; $\epsilon_r =53.26$; $\rho= 1000\text{kg/m}^3$;

Phantom section: Flat Section

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

SATIMO Configuration:

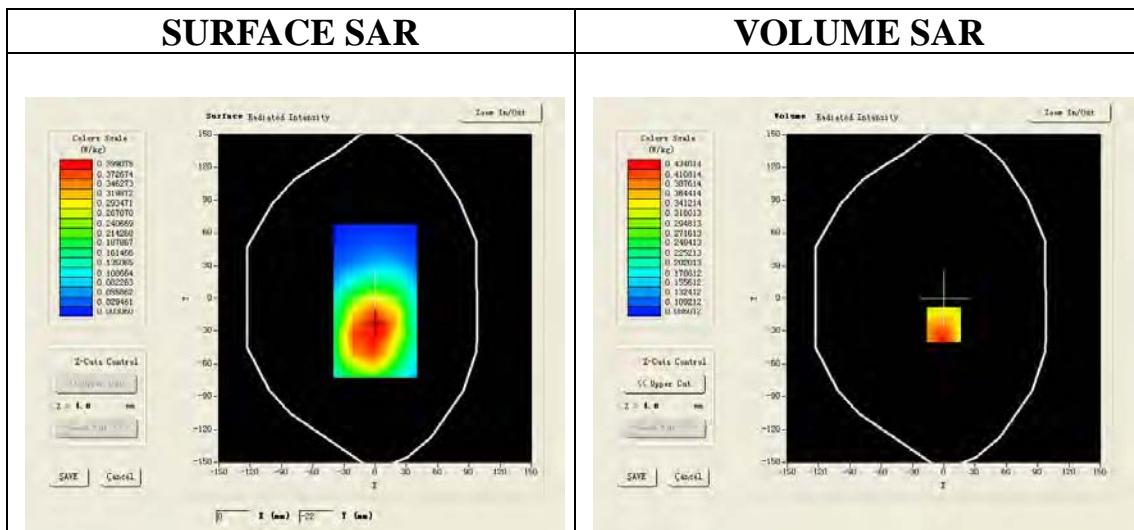
Probe: EP165; Calibrated: 01/31/2013

- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: Flat Phantom; Type: Elliptical Phantom
- Measurement SW: OpenSAR V4_02_01

Configuration/ WCDMA Band V Mid-Body- Back /Area Scan (6x8x1): Measurement grid: dx=8mm, dy=8mm

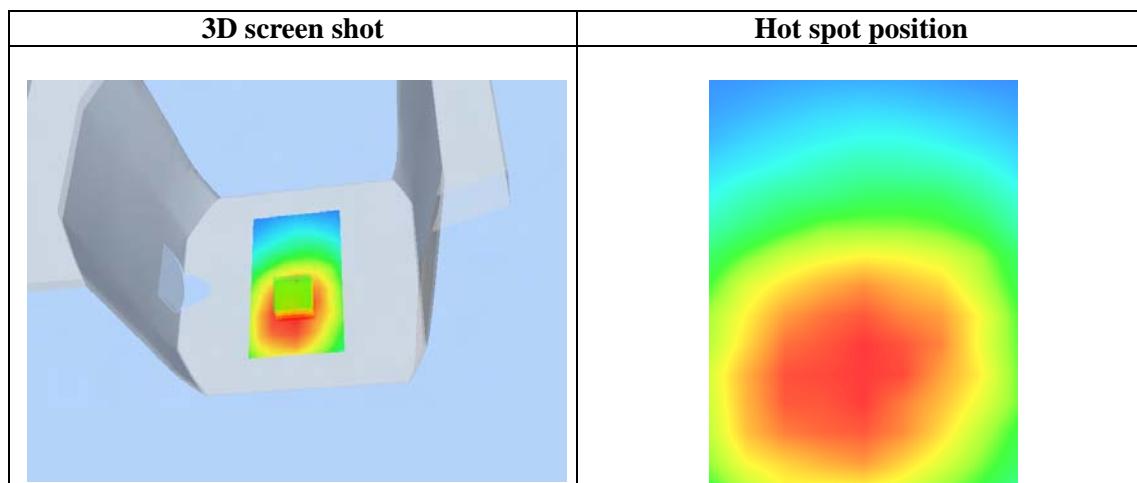
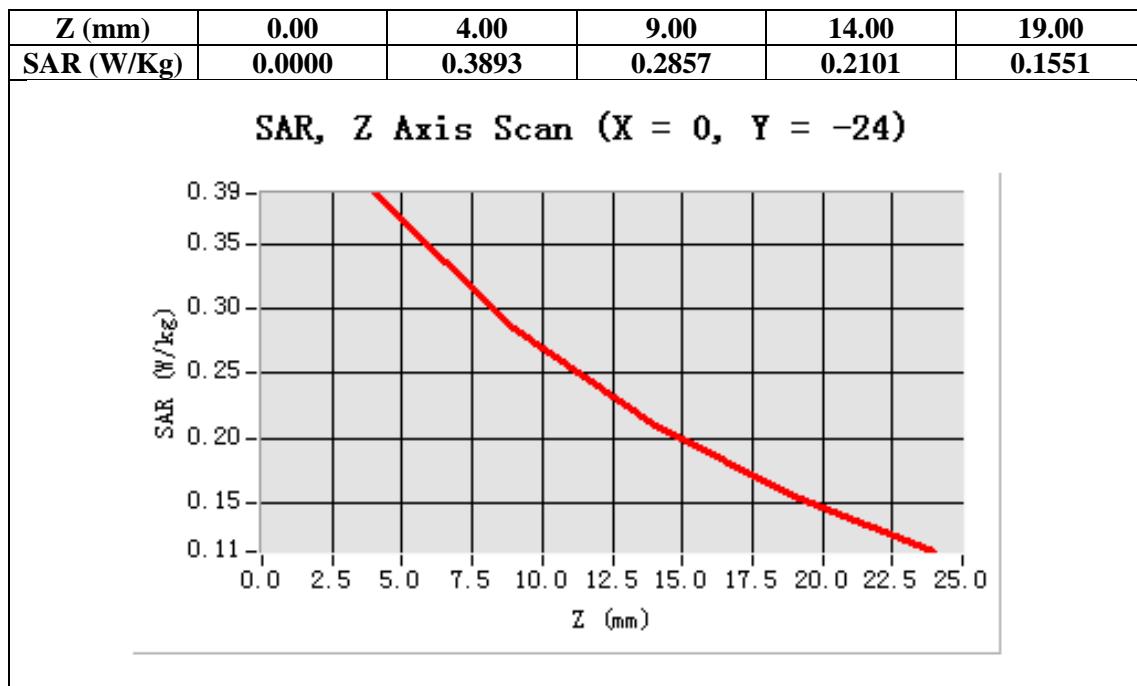
Configuration/ WCDMA Band V Mid-Body- Back /Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm;

Area Scan	surf_sam_plan.txt
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Very fast
Phantom	Validation plane
Device Position	Body Front
Band	WCDMA Band V
Channels	Middle
Signal	TDMA (Crest factor: 1.0)



Maximum location: X=0.00, Y=-24.00

SAR 10g (W/Kg)	0.306425
SAR 1g (W/Kg)	0.440286



WIFI MODE

Test Laboratory: AGC Lab
802.11b Mid-Touch-Left

DUT: Smart Phone; Type: Galapad 6

Date: Sep.12, 2013

Communication System: Wi-Fi; Communication System Band: 802.11b; Duty Cycle: 1:1; Conv.F=4.19;
Frequency: 2437 MHz; Medium parameters used: $f = 2450$ MHz; $\sigma = 1.78$ mho/m; $\epsilon_r = 40.57$; $\rho = 1000$ kg/m³ ;
Phantom section: Left Section
Ambient temperature (°C): 21, Liquid temperature (°C): 21

SATIMO Configuration:

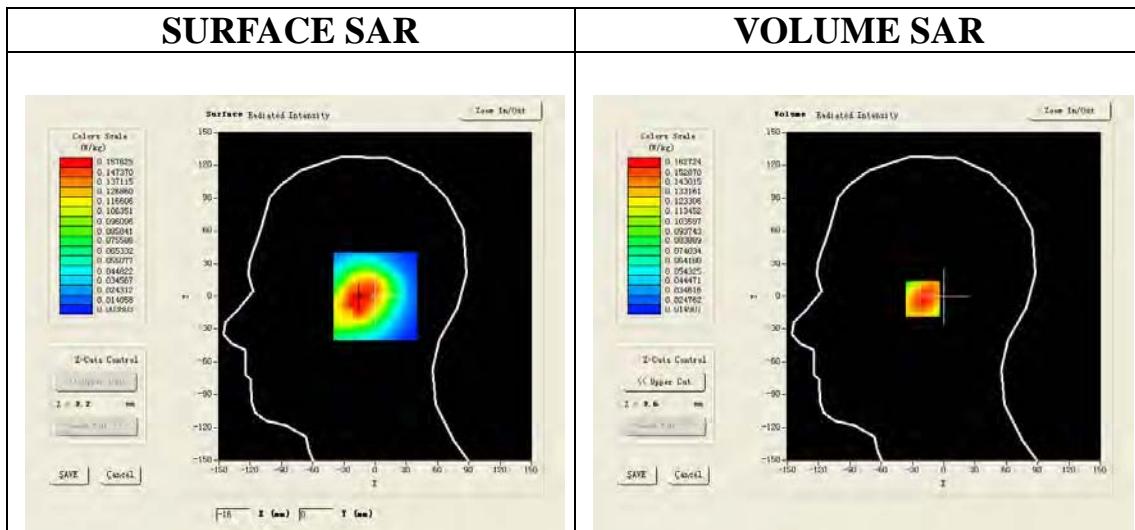
Probe: EP165; Calibrated: 01/31/2013

- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: Flat Phantom; Type: Elliptical Phantom
- Measurement SW: OpenSAR V4_02_01

Configuration/802.11b Mid- Touch-Left/Area Scan (6x8x1): Measurement grid: dx=8mm, dy=8mm

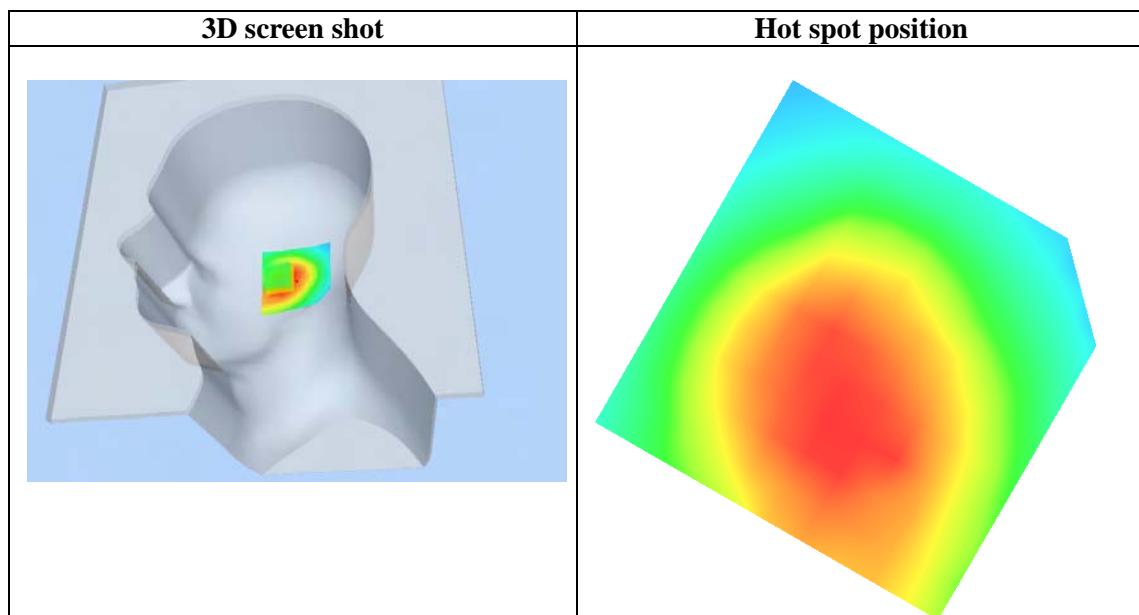
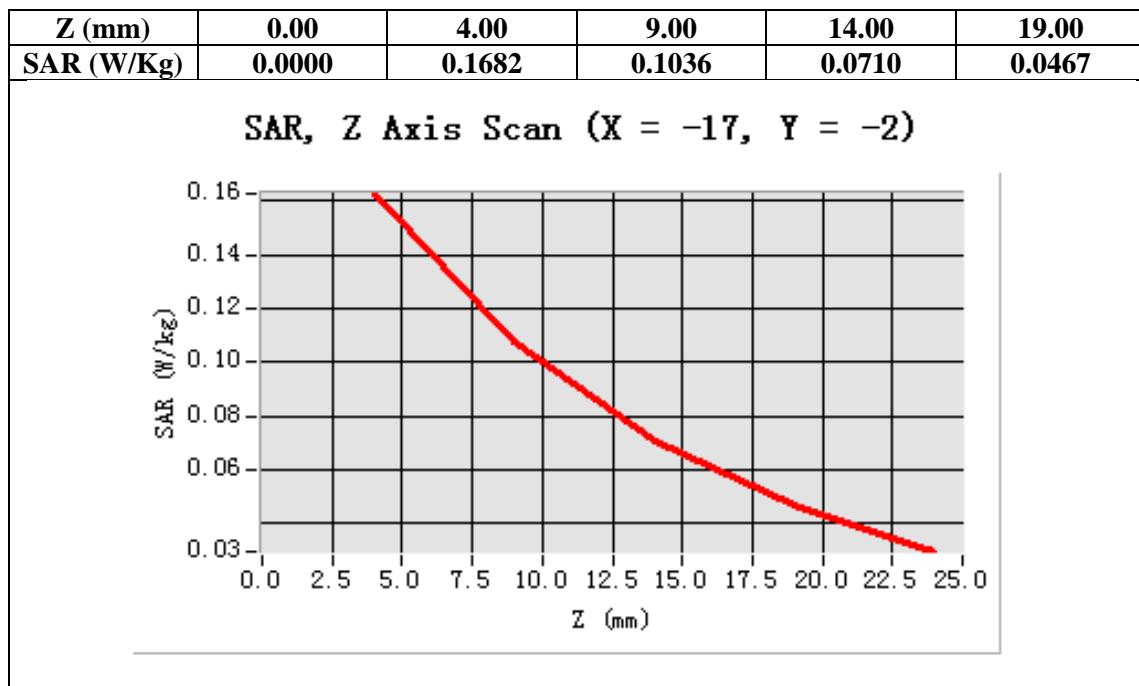
Configuration/802.11b Mid- Touch-Left/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Area Scan	sam_direct_droit2_surf8mm.txt
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Very fast
Phantom	Left head
Device Position	Cheek
Band	2450MHz
Channels	Middle
Signal	TDMA (Crest factor: 8.0)



Maximum location: X=-17.00, Y=-2.00

SAR 10g (W/Kg)	0.094127
SAR 1g (W/Kg)	0.152831



Test Laboratory: AGC Lab
802.11b Mid -Tilt-Left

Date: Sep.12, 2013

DUT: Smart Phone; Type: Galapad 6

Communication System: Wi-Fi; Communication System Band: 802.11b; Duty Cycle: 1:1; Conv.F=4.19;
Frequency: 2437 MHz; Medium parameters used: $f = 2450$ MHz; $\sigma = 1.78$ mho/m; $\epsilon_r = 40.57$; $\rho = 1000$ kg/m³ ;
Phantom section: Left Section
Ambient temperature (°C): 21, Liquid temperature (°C): 21

SATIMO Configuration:

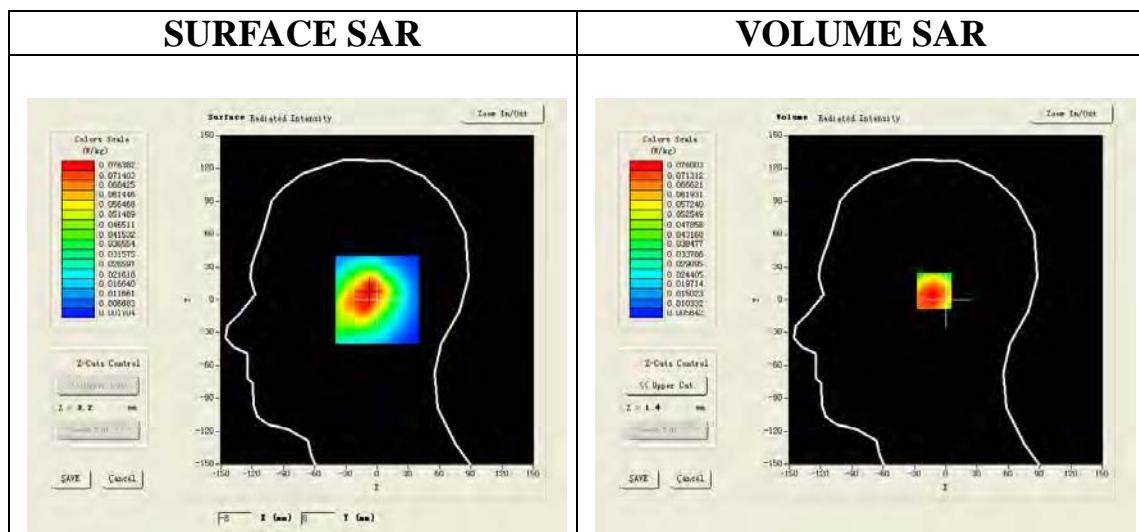
Probe: EP165; Calibrated: 01/31/2013

- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: Flat Phantom; Type: Elliptical Phantom
- Measurement SW: OpenSAR V4_02_01

Configuration/802.11b Mid- Tilt-Left/Area Scan (6x8x1): Measurement grid: dx=8mm, dy=8mm

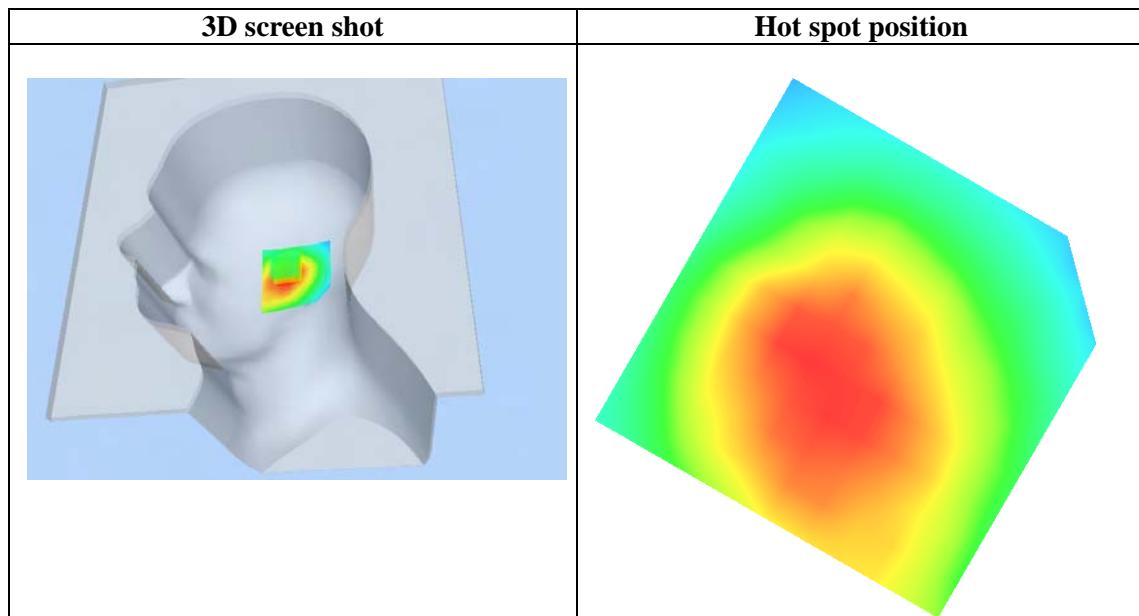
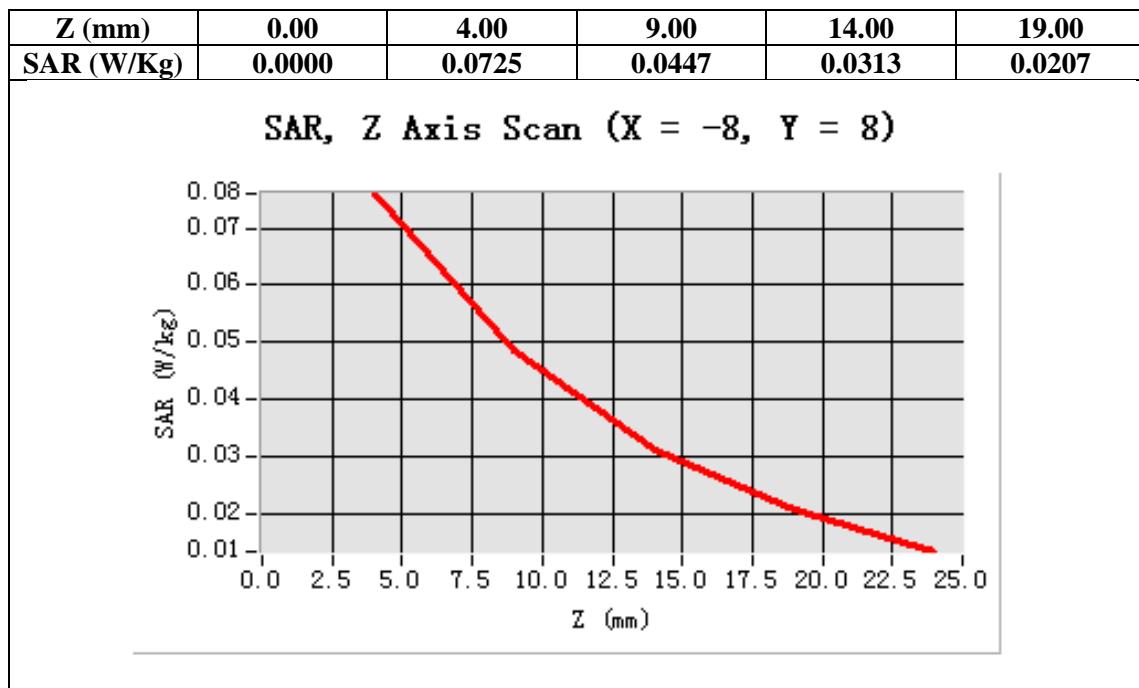
Configuration/802.11b Mid- Tilt-Left/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm,
dy=8mm,dz=5mm;

Area Scan	sam_direct_droit2_surf8mm.txt
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Very fast
Phantom	Left head
Device Position	Tilt
Band	2450MHz
Channels	Middle
Signal	TDMA (Crest factor: 8.0)



Maximum location: X=-8.00, Y=8.00

SAR 10g (W/Kg)	0.046127
SAR 1g (W/Kg)	0.072846



Test Laboratory: AGC Lab
802.11b Mid- Touch-Right

Date: Sep.12, 2013

DUT: Smart Phone; Type: Galapad 6

Communication System: Wi-Fi; Communication System Band: 802.11b; Duty Cycle: 1:1; Conv.F=4.19;
Frequency: 2437 MHz; Medium parameters used: $f = 2450$ MHz; $\sigma = 1.78$ mho/m; $\epsilon_r = 40.57$; $\rho = 1000$ kg/m³ ;
Phantom section: Right Section
Ambient temperature (°C): 21, Liquid temperature (°C): 21

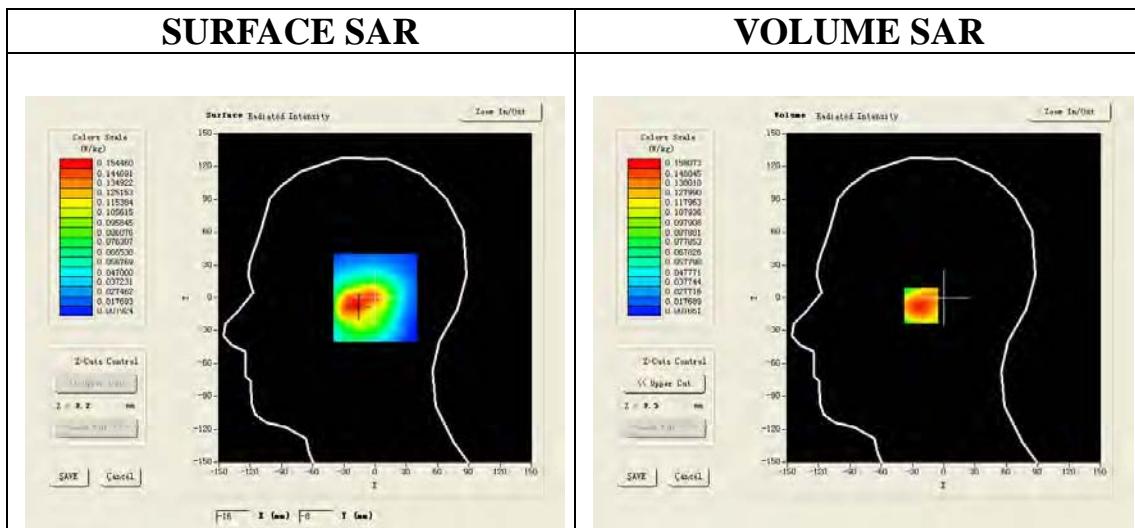
SATIMO Configuration:

- Probe: EP165; Calibrated: 01/31/2013
- Sensor-Surface: 4mm (Mechanical Surface Detection)
 - Phantom: Flat Phantom; Type: Elliptical Phantom
 - Measurement SW: OpenSAR V4_02_01

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

Configuration/802.11b Mid- Touch-Right /Zoom Scan: Measurement grid: dx=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	2450MHz
Channels	Middle
Signal	TDMA (Crest factor: 8.0)

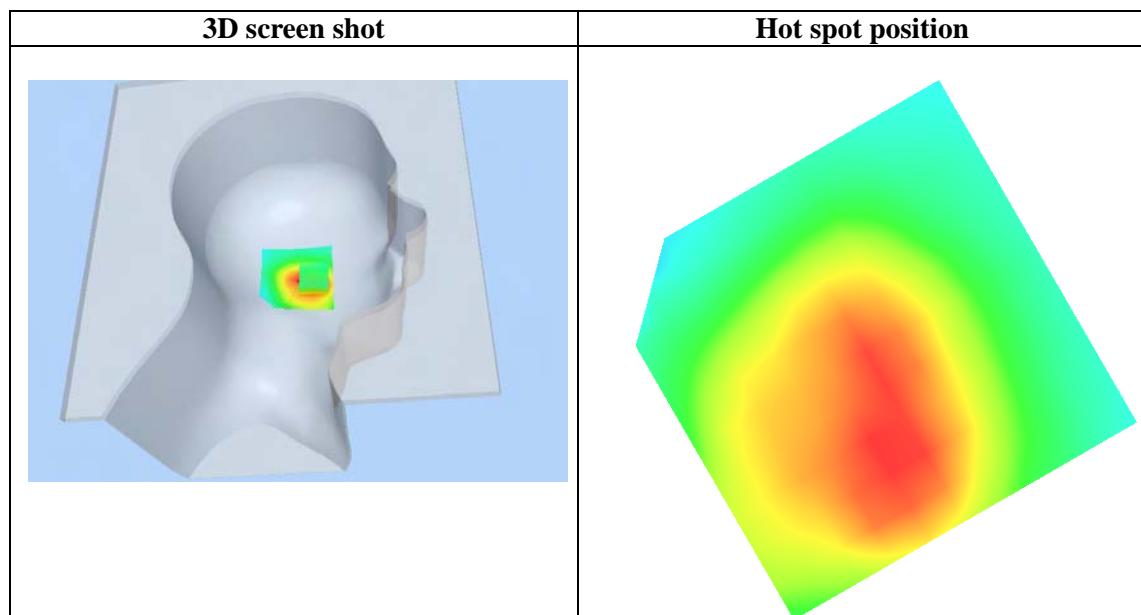
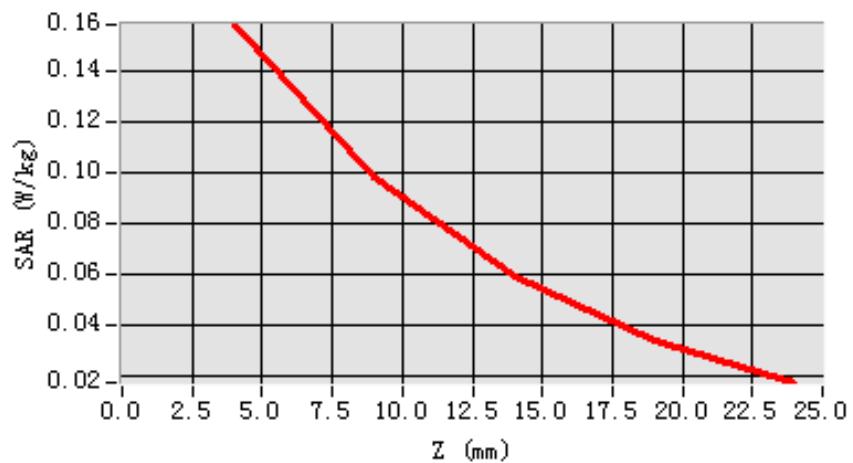


Maximum location: X=-18.00, Y=-7.00

SAR 10g (W/Kg)	0.084305
SAR 1g (W/Kg)	0.146817

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.1551	0.0948	0.0591	0.0343

SAR, Z Axis Scan (X = -18, Y = -7)



Test Laboratory: AGC Lab
802.11b Mid-Tilt-Right

Date: Sep.12, 2013

DUT: Smart Phone; Type: Galapad 6

Communication System: Wi-Fi; Communication System Band: 802.11b; Duty Cycle: 1:1; Conv.F=4.19;
Frequency: 2437 MHz; Medium parameters used: $f = 2450$ MHz; $\sigma = 1.78$ mho/m; $\epsilon_r = 40.57$; $\rho = 1000$ kg/m³ ;
Phantom section: Right Section
Ambient temperature (°C): 21, Liquid temperature (°C): 21

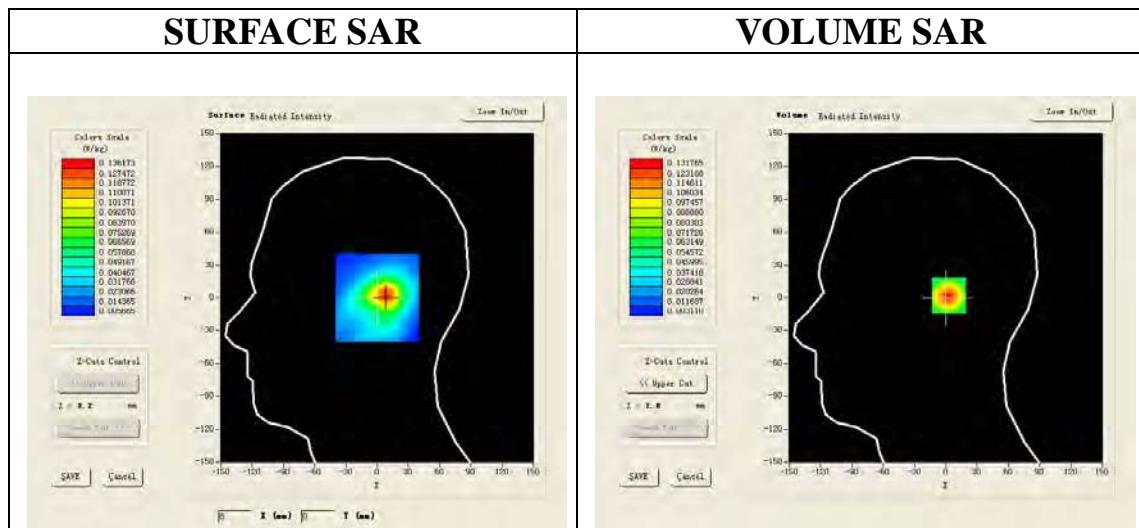
SATIMO Configuration:

- Probe: EP165; Calibrated: 01/31/2013
- Sensor-Surface: 4mm (Mechanical Surface Detection)
 - Phantom: Flat Phantom; Type: Elliptical Phantom
 - Measurement SW: OpenSAR V4_02_01

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

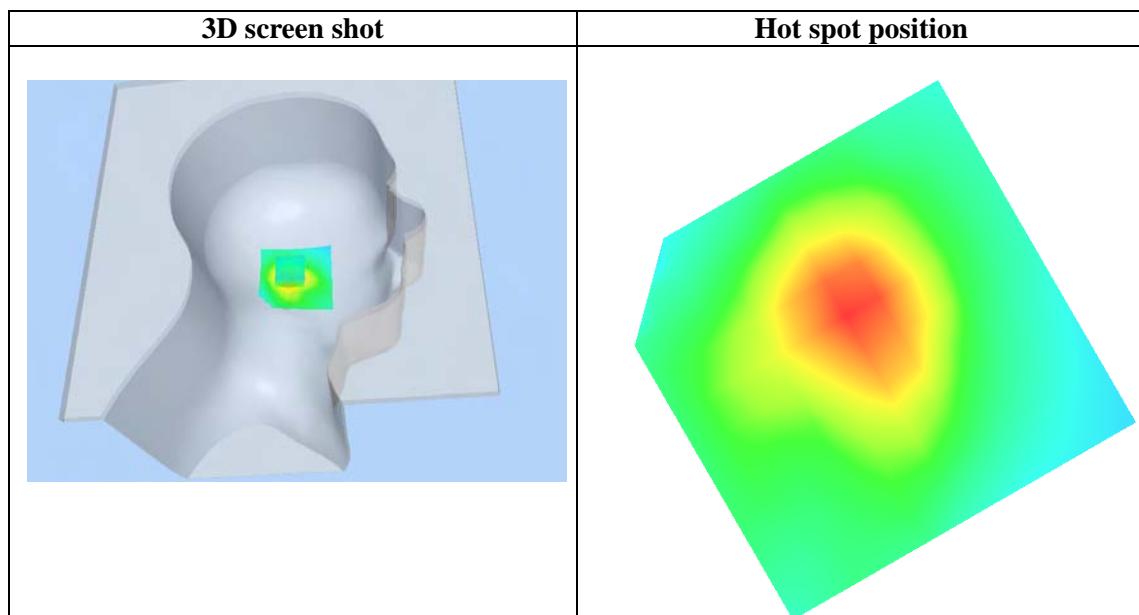
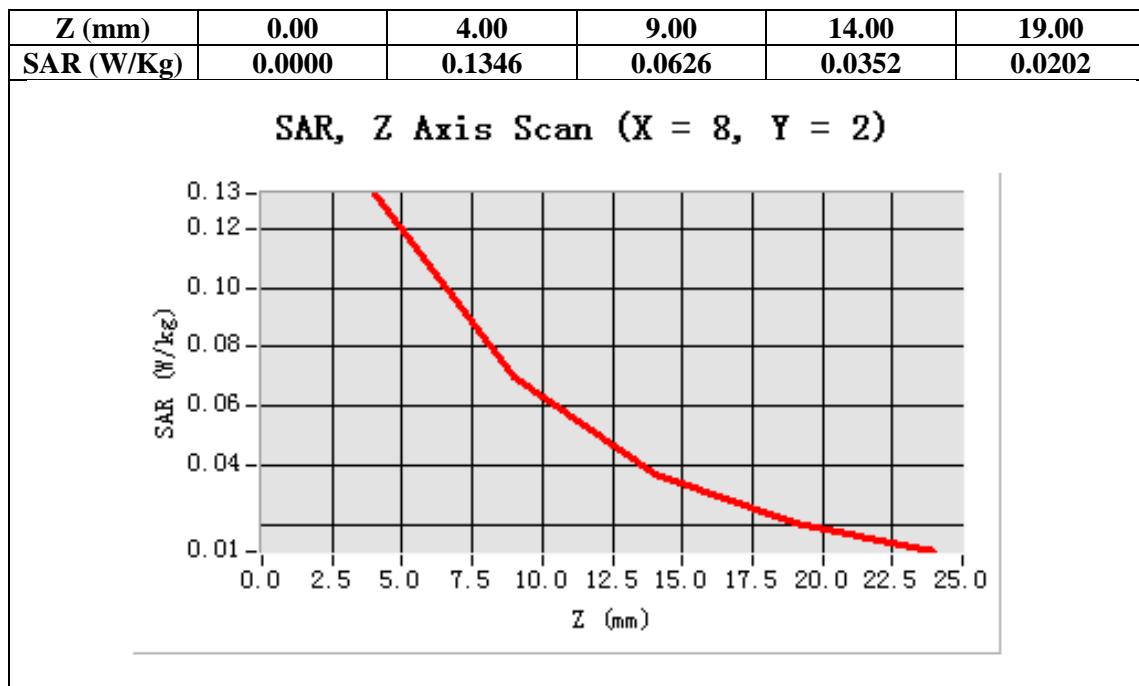
Configuration/802.11b Mid- Tilt-Right/Zoom Scan: Measurement grid: dx=8mm,
dy=8mm, dz=5mm;

Area Scan	sam_direct_droit2_surf8mm.txt
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Very fast
Phantom	Right head
Device Position	Tilt
Band	2450MHz
Channels	Middle
Signal	TDMA (Crest factor: 8.0)



Maximum location: X=8.00, Y=2.00

SAR 10g (W/Kg)	0.067218
SAR 1g (W/Kg)	0.124128



Test Laboratory: AGC Lab
802.11b Mid-Body-Worn- Back
DUT: Smart Phone; Type: Galapad 6

Date: Sep.12, 2013

Communication System: Wi-Fi; Communication System Band: 802.11b; Duty Cycle: 1:1; Conv.F=4.32;
Frequency: 2437 MHz; Medium parameters used: $f = 2450$ MHz; $\sigma = 1.89$ mho/m; $\epsilon_r = 53.46$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section
Ambient temperature (°C):21, Liquid temperature (°C):21

SATIMO Configuration:

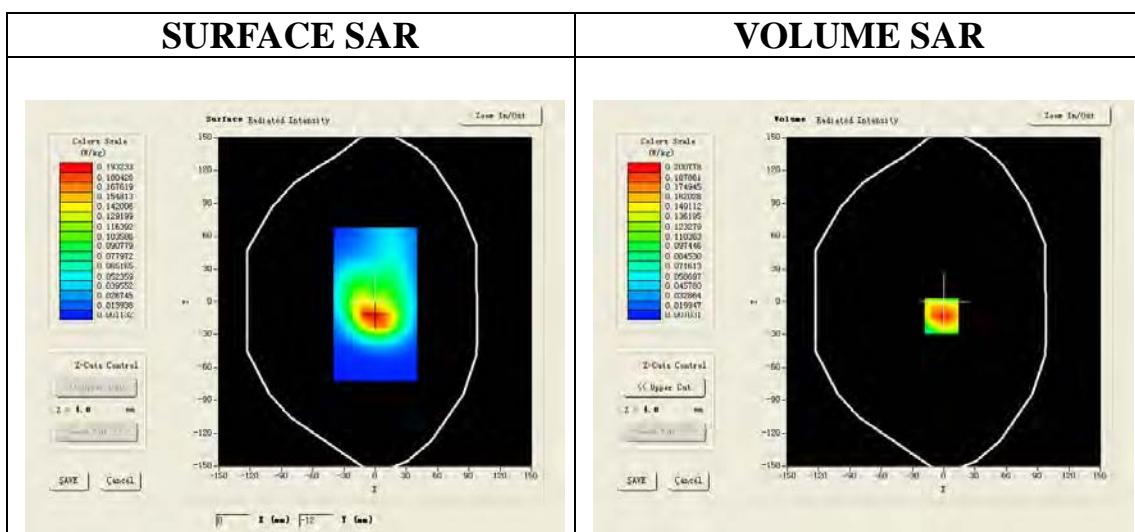
Probe: EP165; Calibrated: 01/31/2013

- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: Flat Phantom; Type: Elliptical Phantom
- Measurement SW: OpenSAR V4_02_01

Configuration/802.11b Mid- Body- Back /Area Scan (6x8x1): Measurement grid: dx=8mm, dy=8mm

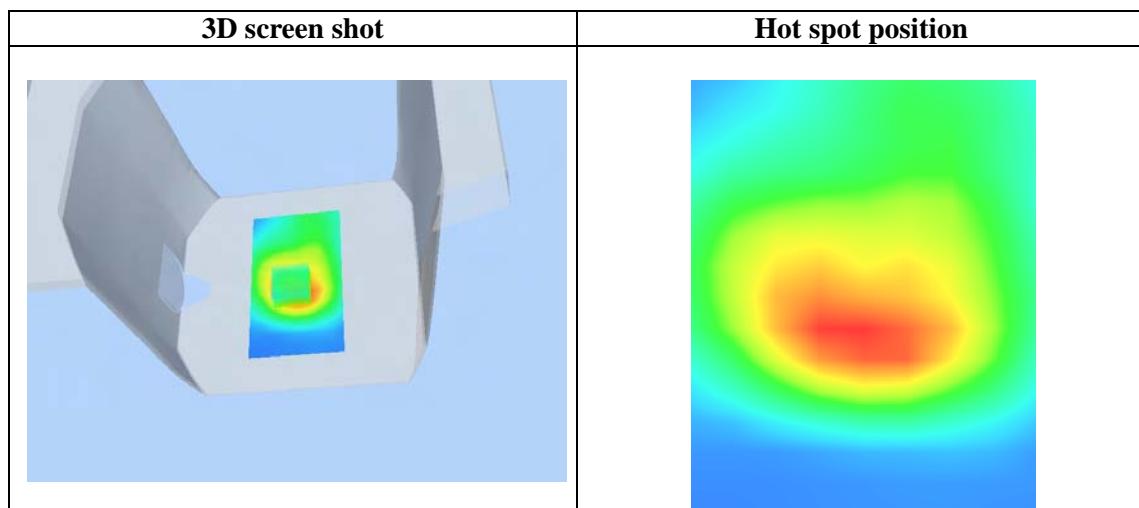
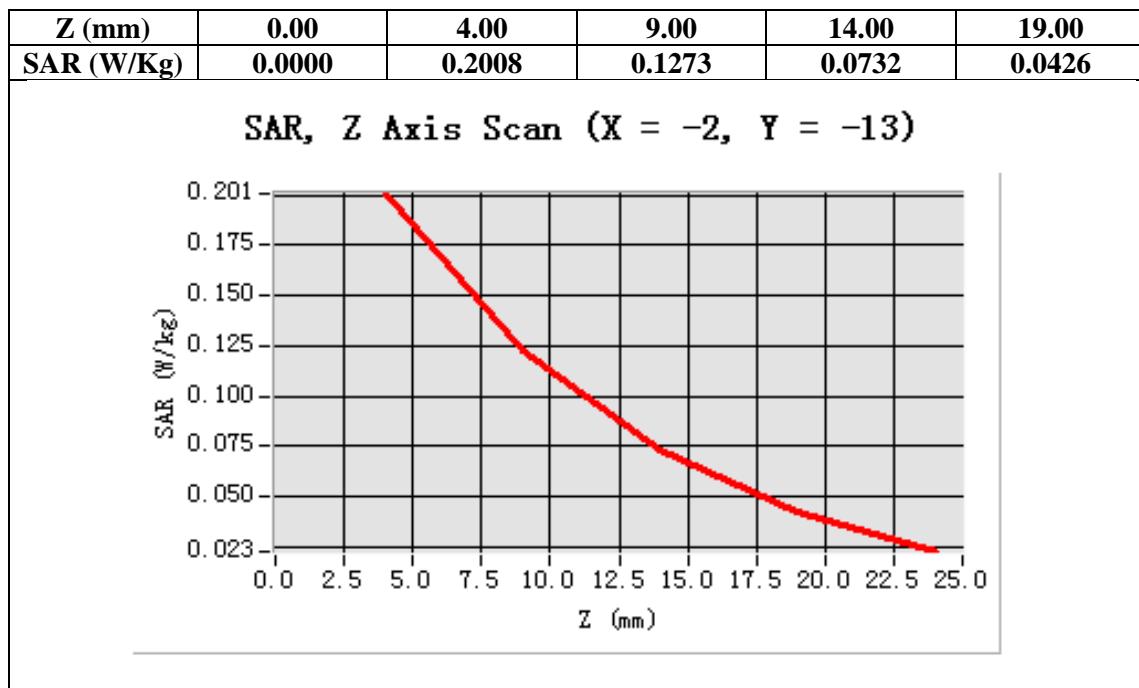
Configuration/802.11b Mid- Body- Back /Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm;

Area Scan	surf_sam_plan.txt
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Very fast
Phantom	Validation plane
Device Position	Body Back
Band	2450MHz
Channels	Middle
Signal	TDMA (Crest factor: 8.0)



Maximum location: X=-2.00, Y=-13.00

SAR 10g (W/Kg)	0.116218
SAR 1g (W/Kg)	0.207215



Test Laboratory: AGC Lab
802.11b Mid-Body -Front
DUT: Smart Phone; Type: Galapad 6

Date: Sep.12, 2013

Communication System: Wi-Fi; Communication System Band: 802.11b; Duty Cycle: 1:1; Conv.F=4.32;
Frequency: 2437 MHz; Medium parameters used: $f = 2450$ MHz; $\sigma = 1.89$ mho/m; $\epsilon_r = 53.46$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section
Ambient temperature (°C):21, Liquid temperature (°C):21

SATIMO Configuration:

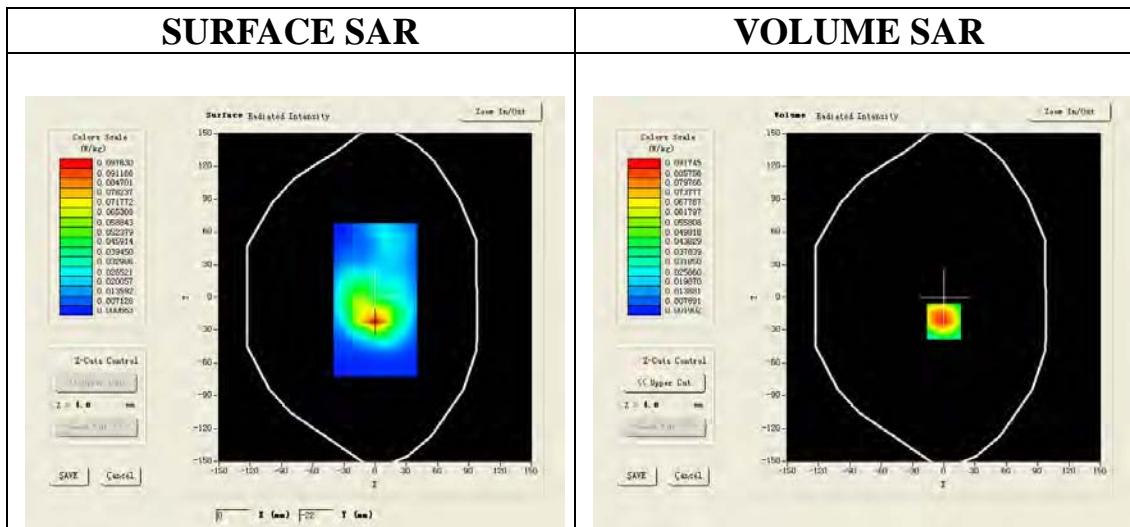
Probe: EP165; Calibrated: 01/31/2013

- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: Flat Phantom; Type: Elliptical Phantom
- Measurement SW: OpenSAR V4_02_01

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

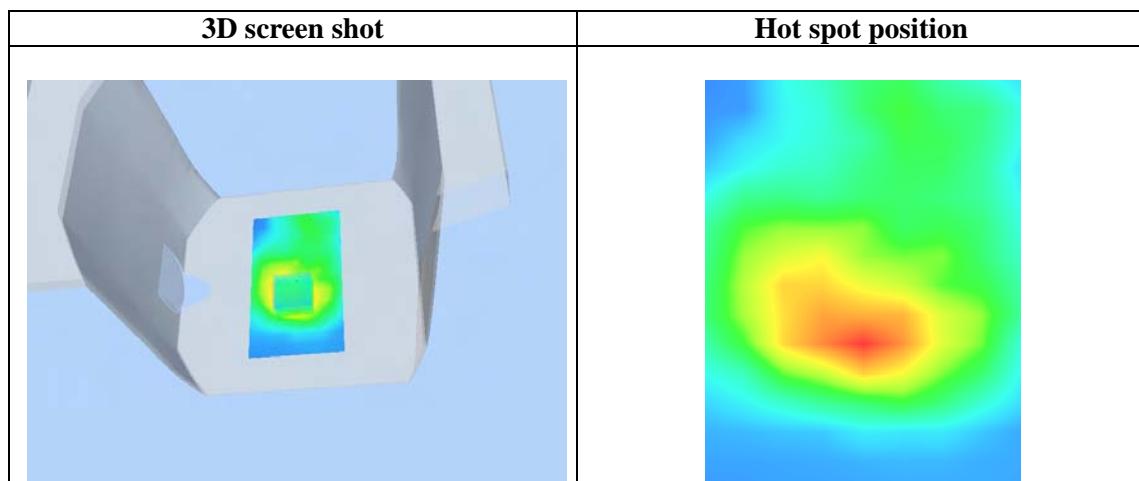
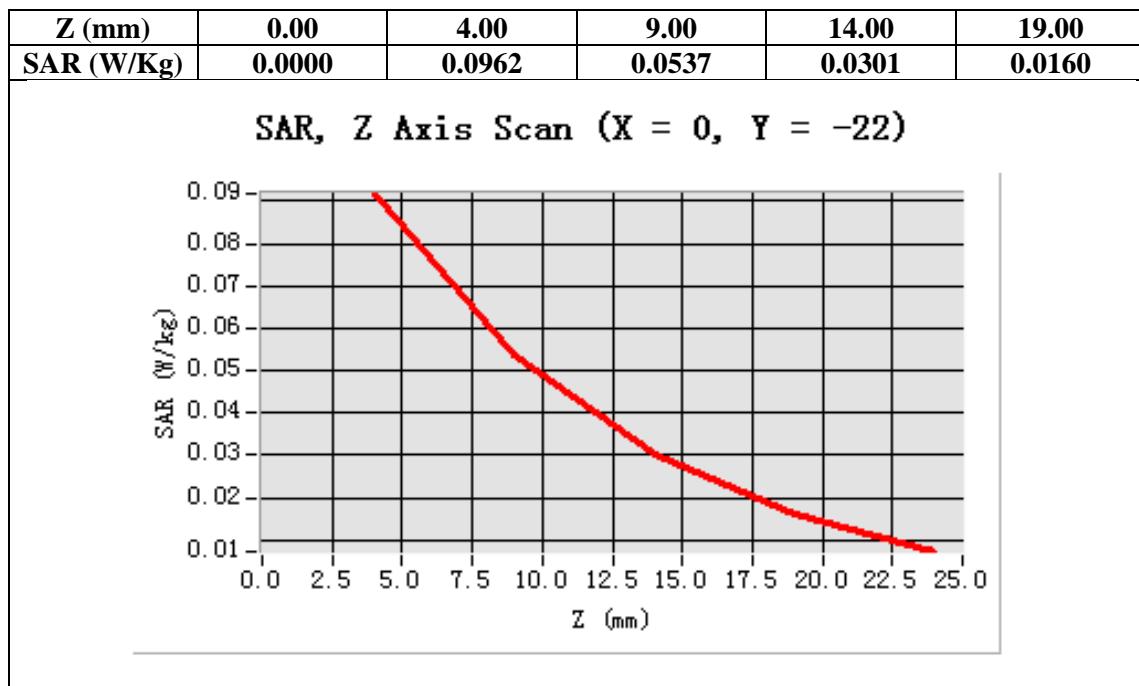
Configuration/802.11b Mid-Body- Front /Zoom Scan: Measurement grid: dx=8mm,
dy=8mm, dz=5mm;

Area Scan	surf_sam_plan.txt
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Very fast
Phantom	Validation plane
Device Position	Body Front
Band	2450MHz
Channels	Middle
Signal	TDMA (Crest factor: 8.0)



Maximum location: X=0.00, Y=-22.00

SAR 10g (W/Kg)	0.057208
SAR 1g (W/Kg)	0.095237



HOTSPOT MODE

Test Laboratory: AGC Lab
Hotspot Mid-Touch-Left

DUT: Smart Phone; Type: Galapad 6

Date: Sep.12, 2013

Communication System: Wi-Fi; Communication System Band: Hotspot; Duty Cycle: 1:1; Conv.F=4.19;
Frequency: 2437 MHz; Medium parameters used: $f = 2450$ MHz; $\sigma = 1.78$ mho/m; $\epsilon_r = 40.57$; $\rho = 1000$ kg/m³ ;
Phantom section: Left Section
Ambient temperature (°C): 21, Liquid temperature (°C): 21

SATIMO Configuration:

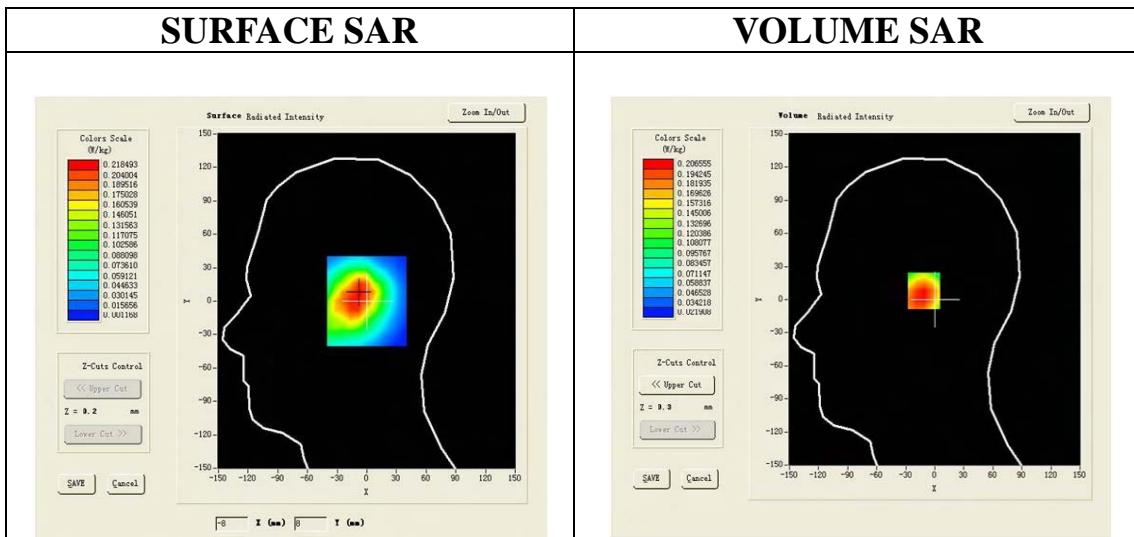
Probe: EP165; Calibrated: 01/31/2013

- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: Flat Phantom; Type: Elliptical Phantom
- Measurement SW: OpenSAR V4_02_01

Configuration/Hotspot Mid- Touch-Left/Area Scan (6x8x1): Measurement grid: dx=8mm, dy=8mm

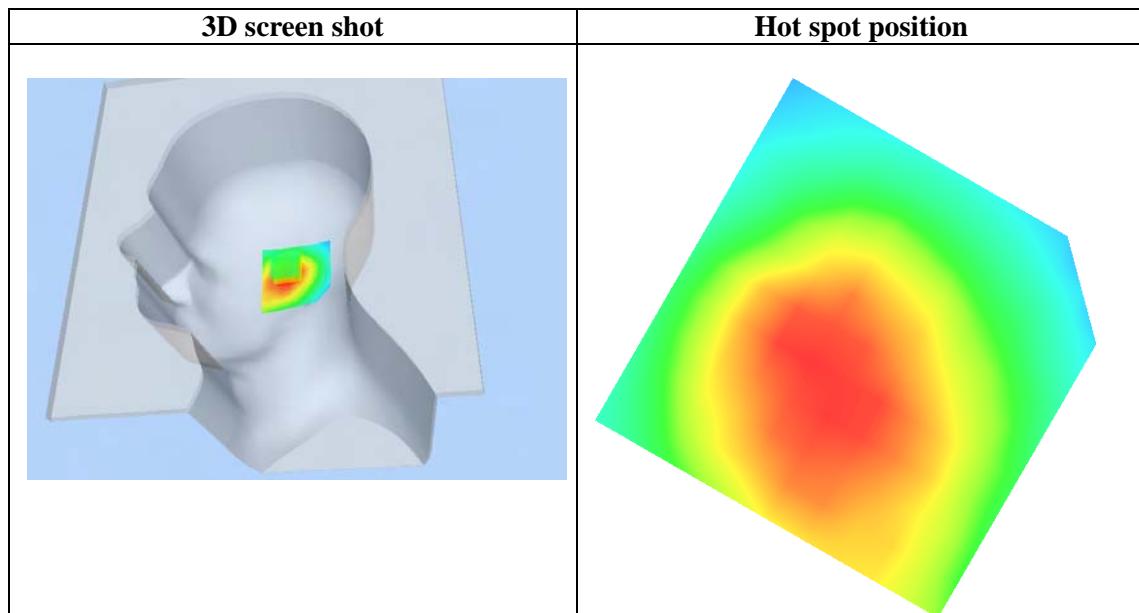
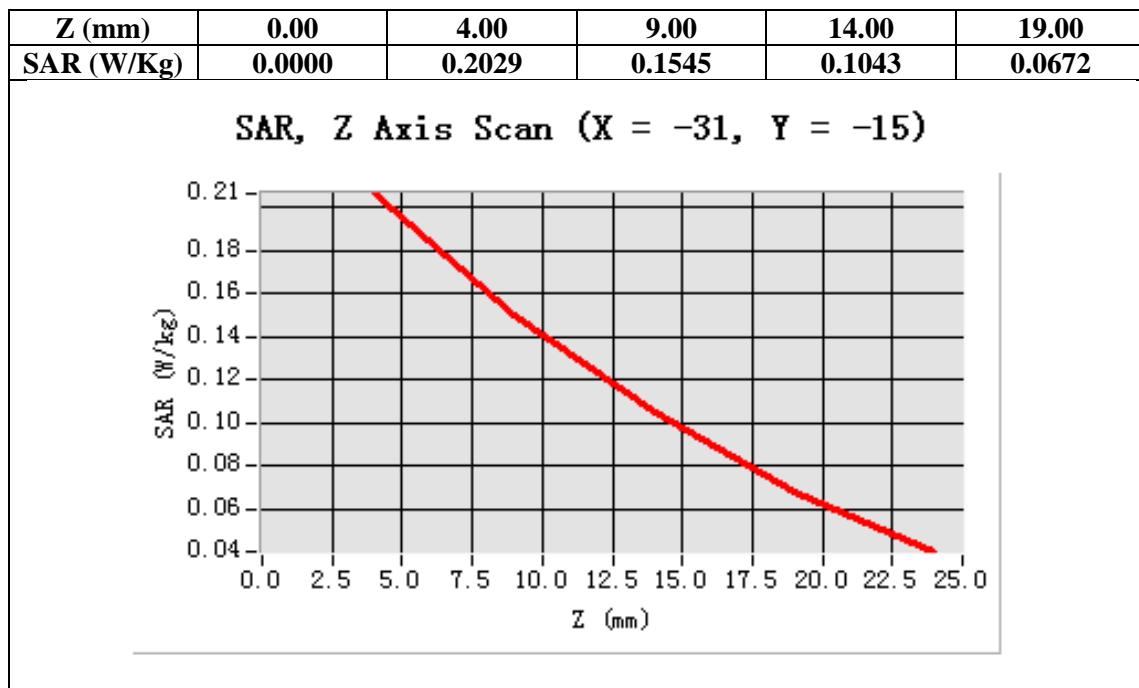
Configuration/Hotspot Mid- Touch-Left/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Area Scan	sam_direct_droit2_surf8mm.txt
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Very fast
Phantom	Left head
Device Position	Cheek
Band	2450MHz
Channels	Middle
Signal	TDMA (Crest factor: 8.0)



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

SAR 10g (W/Kg)	0.079208
SAR 1g (W/Kg)	0.127108



Test Laboratory: AGC Lab
Hotspot Mid -Tilt-Left

Date: Sep.12, 2013

DUT: Smart Phone; Type: Galapad 6

Communication System: Wi-Fi; Communication System Band: Hotspot; Duty Cycle: 1:1; Conv.F=4.19;
Frequency: 2437 MHz; Medium parameters used: $f = 2450$ MHz; $\sigma = 1.78$ mho/m; $\epsilon_r = 40.57$; $\rho = 1000$ kg/m³ ;
Phantom section: Left Section
Ambient temperature (°C): 21, Liquid temperature (°C): 21

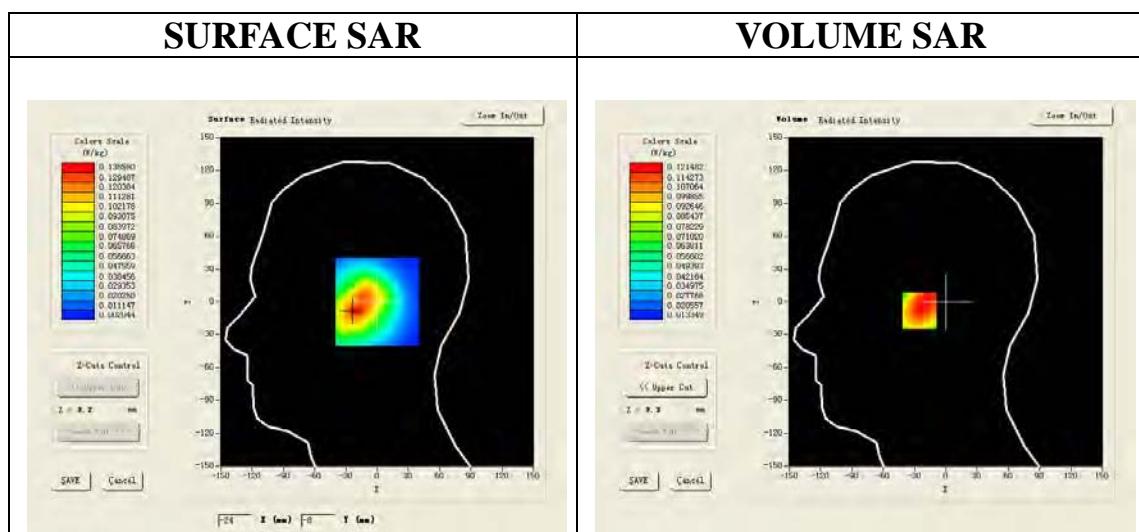
SATIMO Configuration:

- Probe: EP165; Calibrated: 01/31/2013
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: Flat Phantom; Type: Elliptical Phantom
- Measurement SW: OpenSAR V4_02_01

Configuration/Hotspot Mid- Tilt-Left/Area Scan (6x8x1): Measurement grid: dx=8mm, dy=8mm

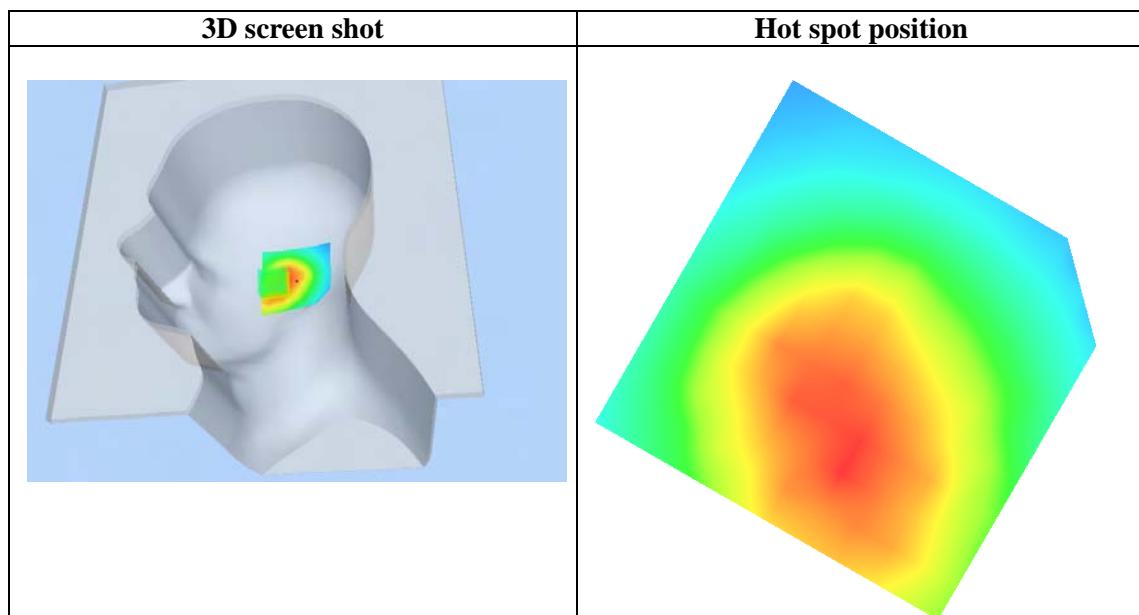
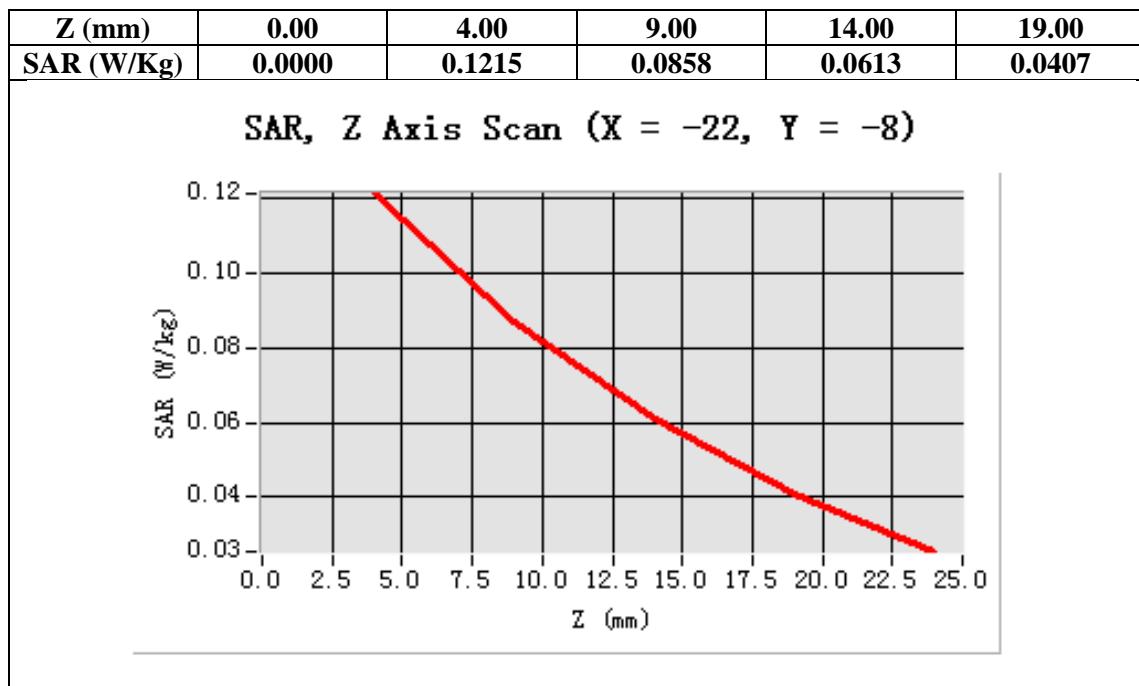
Configuration/Hotspot Mid- Tilt-Left/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm,
dy=8mm,dz=5mm;

Area Scan	sam_direct_droit2_surf8mm.txt
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Very fast
Phantom	Left head
Device Position	Tilt
Band	2450MHz
Channels	Middle
Signal	TDMA (Crest factor: 8.0)



Maximum location: X=-22.00, Y=-8.00

SAR 10g (W/Kg)	0.077218
SAR 1g (W/Kg)	0.112840



Test Laboratory: AGC Lab
Hotspot Mid- Touch-Right
DUT: Smart Phone; Type: Galapad 6

Date: Sep.12, 2013

Communication System: Wi-Fi; Communication System Band: Hotspot; Duty Cycle: 1:1; Conv.F=4.19;
Frequency: 2437 MHz; Medium parameters used: $f = 2450$ MHz; $\sigma = 1.78$ mho/m; $\epsilon_r = 40.57$; $\rho = 1000$ kg/m³ ;
Phantom section: Right Section
Ambient temperature (°C): 21, Liquid temperature (°C): 21

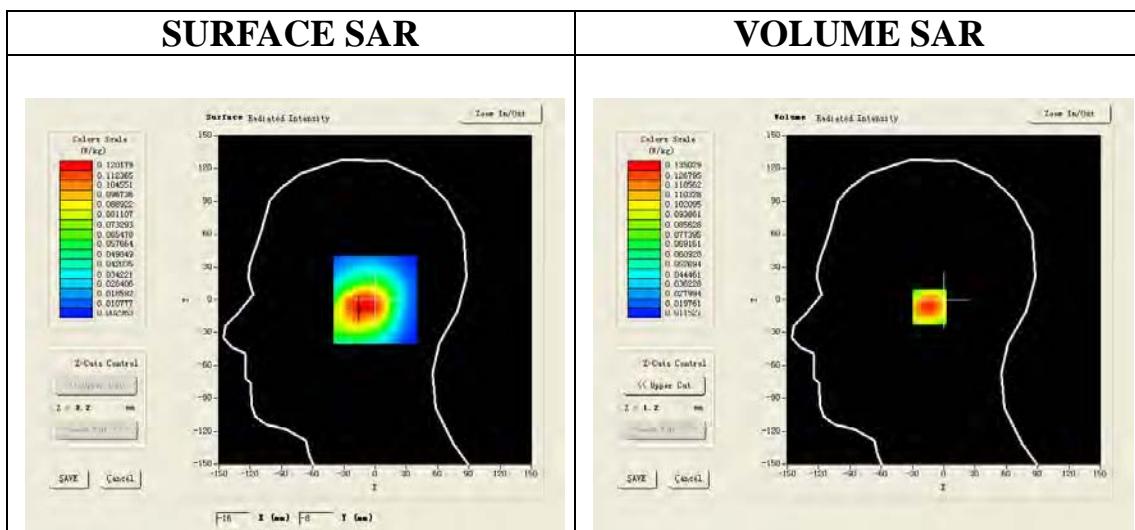
SATIMO Configuration:

- Probe: EP165; Calibrated: 01/31/2013
- Sensor-Surface: 4mm (Mechanical Surface Detection)
 - Phantom: Flat Phantom; Type: Elliptical Phantom
 - Measurement SW: OpenSAR V4_02_01

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

Configuration/Hotspot 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	2450MHz
Channels	Middle
Signal	TDMA (Crest factor: 8.0)

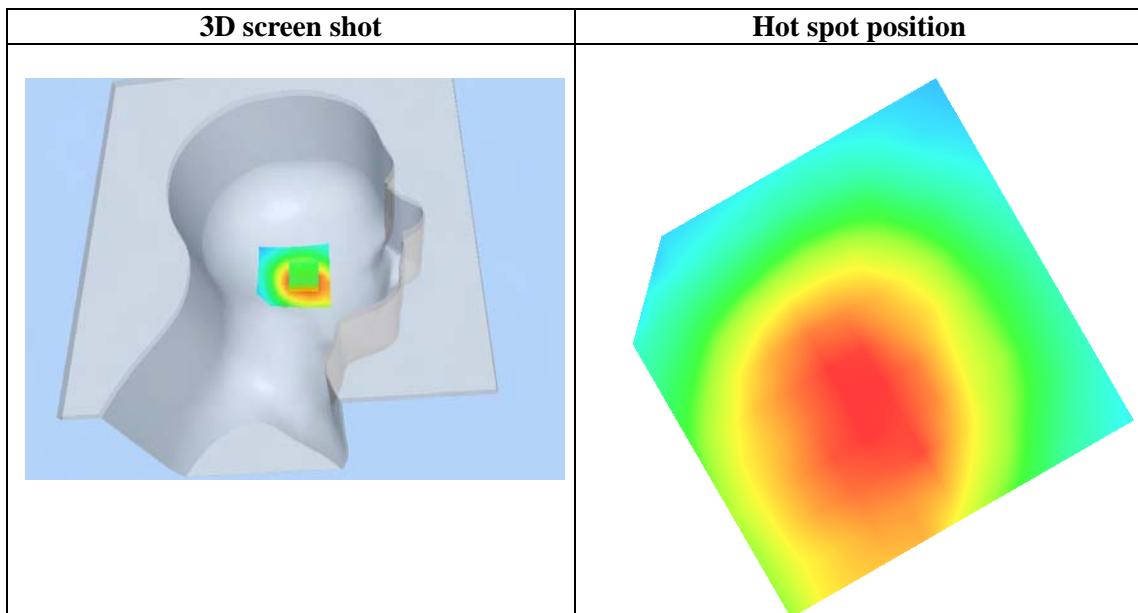
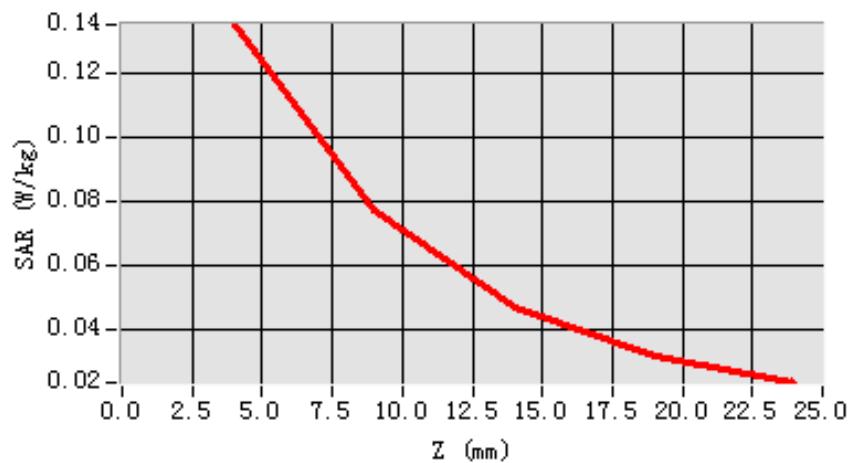


Maximum location: X=-10.00, Y=-6.00

SAR 10g (W/Kg)	0.134281
SAR 1g (W/Kg)	0.196128

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.1358	0.0781	0.0483	0.0336

SAR, Z Axis Scan (X = -10, Y = -6)



Test Laboratory: AGC Lab
Hotspot Mid-Tilt-Right
DUT: Smart Phone; Type: Galapad 6

Date: Sep.12, 2013

Communication System: Wi-Fi; Communication System Band: Hotspot; Duty Cycle: 1:1; Conv.F=4.19;
Frequency: 2437 MHz; Medium parameters used: $f = 2450$ MHz; $\sigma = 1.78$ mho/m; $\epsilon_r = 40.57$; $\rho = 1000$ kg/m³ ;
Phantom section: Right Section
Ambient temperature (°C): 21, Liquid temperature (°C): 21

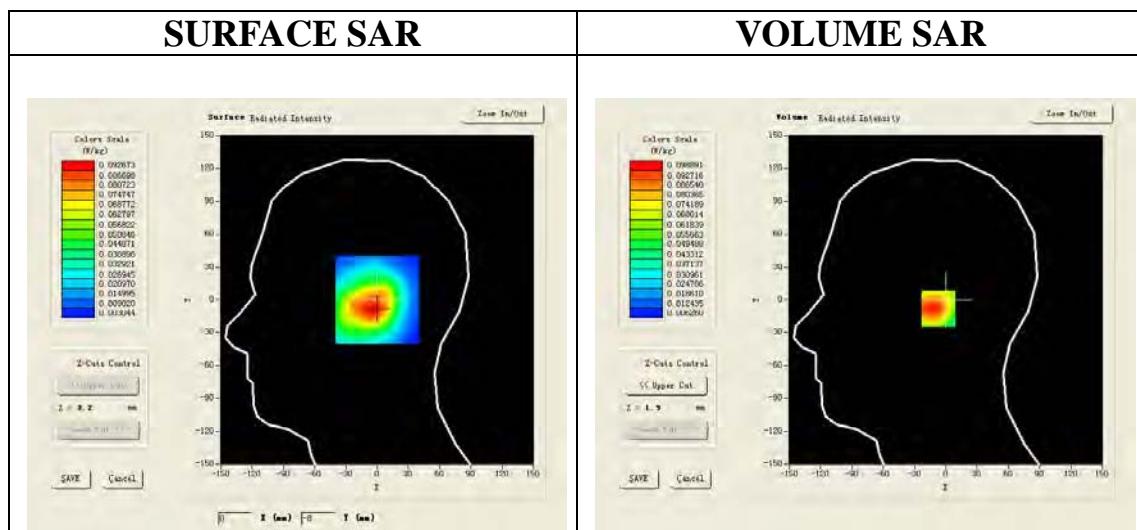
SATIMO Configuration:

- Probe: EP165; Calibrated: 01/31/2013
- Sensor-Surface: 4mm (Mechanical Surface Detection)
 - Phantom: Flat Phantom; Type: Elliptical Phantom
 - Measurement SW: OpenSAR V4_02_01

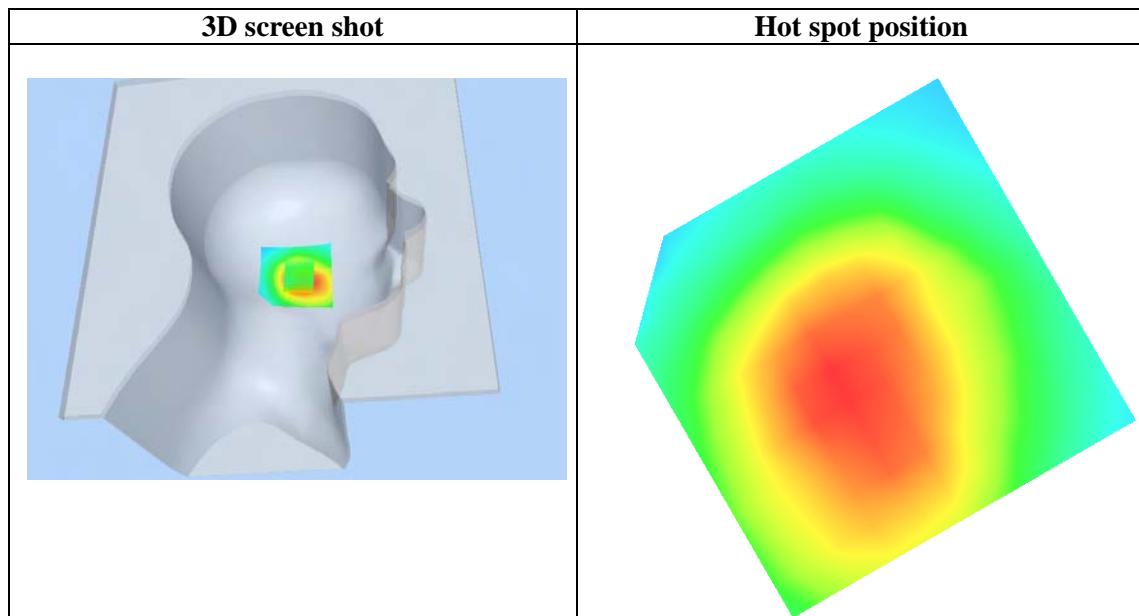
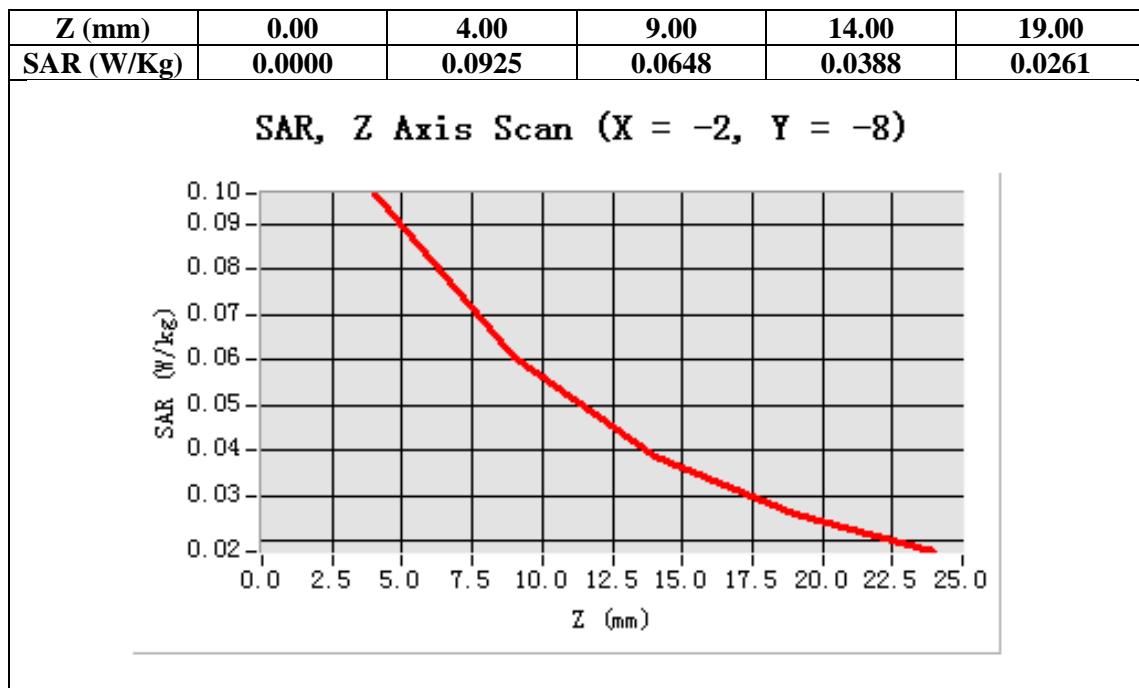
Configuration/Hotspot Mid- Tilt-Right/Area Scan: Measurement grid: dx=8mm, dy=8mm

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

Area Scan	sam_direct_droit2_surf8mm.txt
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Very fast
Phantom	Right head
Device Position	Tilt
Band	2450MHz
Channels	Middle
Signal	TDMA (Crest factor: 8.0)



SAR 10g (W/Kg)	0.053128
SAR 1g (W/Kg)	0.098514



Test Laboratory: AGC Lab
Hotspot Mid-Body-Worn- Back
DUT: Smart Phone; Type: Galapad 6

Date: Sep.12, 2013

Communication System: Wi-Fi; Communication System Band: Hotspot; Duty Cycle: 1:1; Conv.F=4.32;
Frequency: 2437 MHz; Medium parameters used: $f = 2450$ MHz; $\sigma = 1.89$ mho/m; $\epsilon_r = 53.46$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section
Ambient temperature (°C):21, Liquid temperature (°C):21

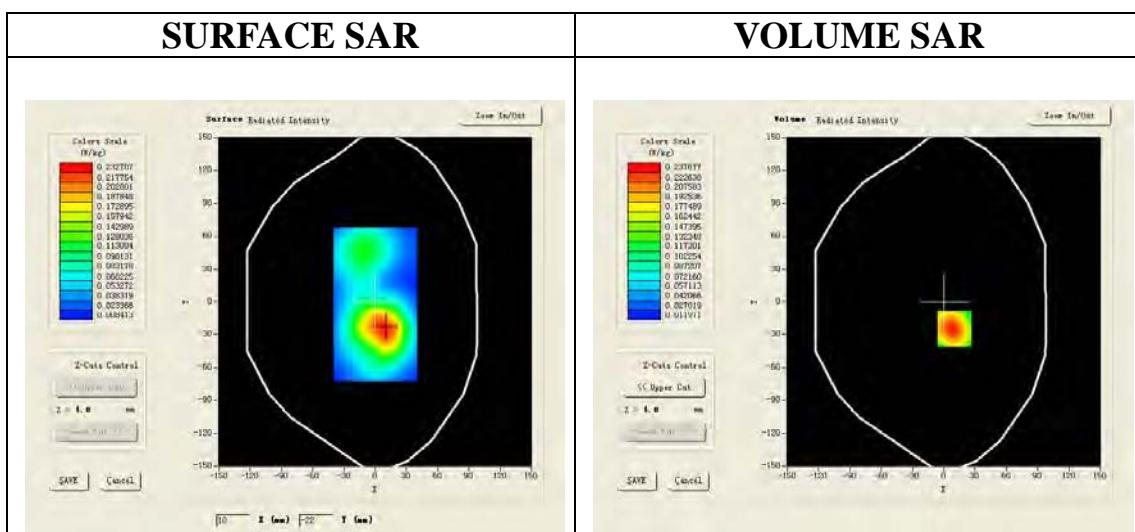
SATIMO Configuration:

- Probe: EP165; Calibrated: 01/31/2013
- Sensor-Surface: 4mm (Mechanical Surface Detection)
 - Phantom: Flat Phantom; Type: Elliptical Phantom
 - Measurement SW: OpenSAR V4_02_01

Configuration/Hotspot Mid- Body- Back /Area Scan (6x8x1): Measurement grid: dx=8mm, dy=8mm

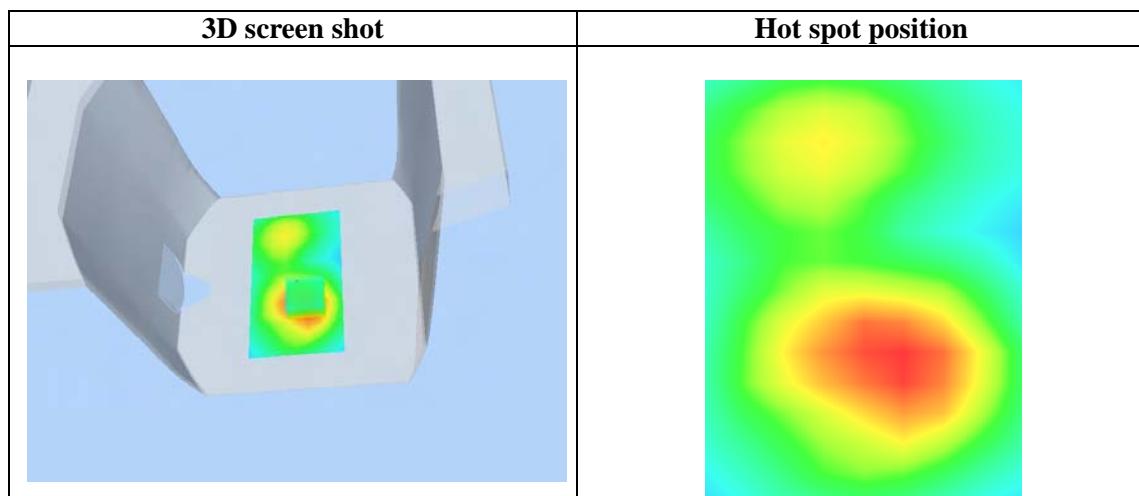
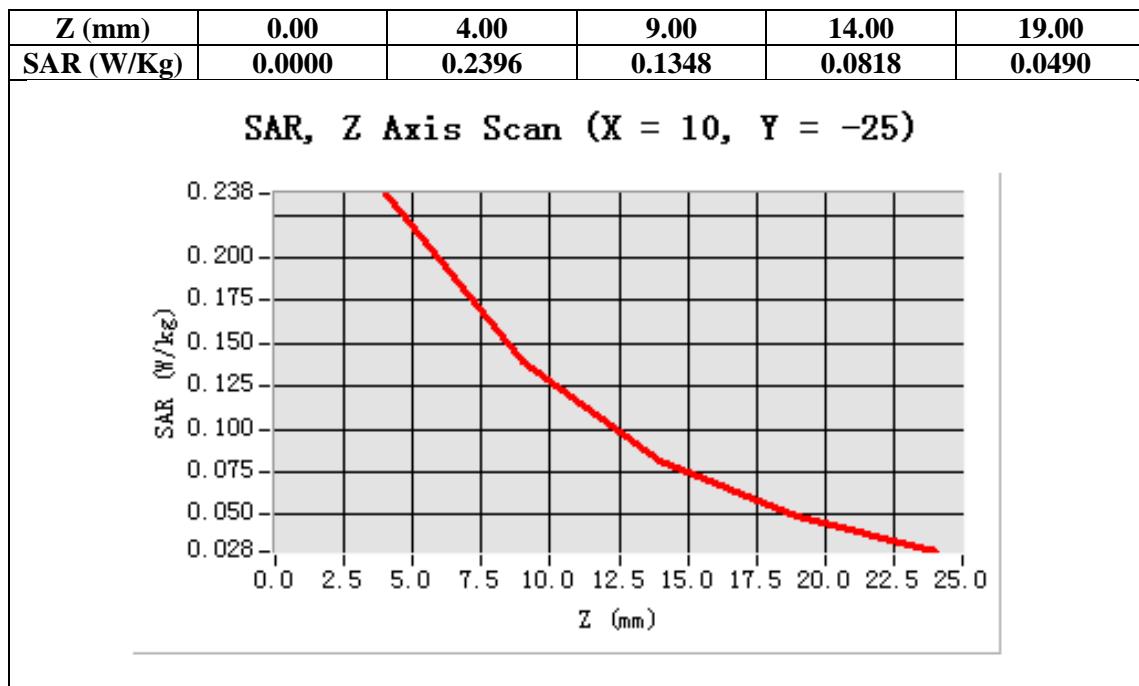
Configuration/Hotspot Mid- Body- Back /Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm;

Area Scan	surf_sam_plan.txt
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Very fast
Phantom	Validation plane
Device Position	Body Back
Band	2450MHz
Channels	Middle
Signal	TDMA (Crest factor: 8.0)



Maximum location: X=10.00, Y=-25.00

SAR 10g (W/Kg)	0.147501
SAR 1g (W/Kg)	0.244205



Test Laboratory: AGC Lab
Hotspot Mid-Body -Front
DUT: Smart Phone; Type: Galapad 6

Date: Sep.12, 2013

Communication System: Wi-Fi; Communication System Band: Hotspot; Duty Cycle: 1:1; Conv.F=4.32;
Frequency: 2437 MHz; Medium parameters used: $f = 2450$ MHz; $\sigma = 1.89$ mho/m; $\epsilon_r = 53.46$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section
Ambient temperature (°C):21, Liquid temperature (°C):21

SATIMO Configuration:

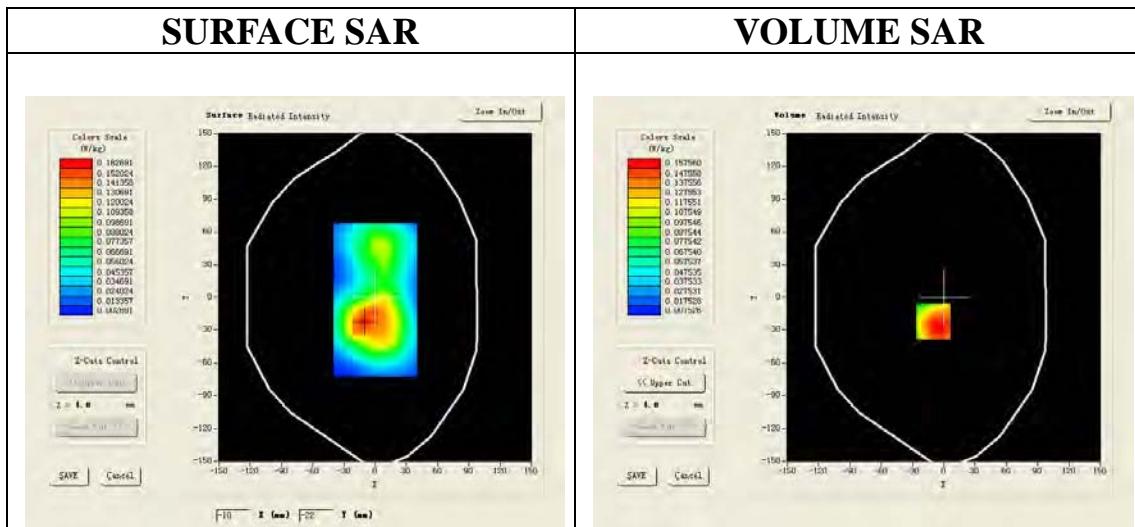
Probe: EP165; Calibrated: 01/31/2013

- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: Flat Phantom; Type: Elliptical Phantom
- Measurement SW: OpenSAR V4_02_01

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

Configuration/Hotspot Mid-Body- Front /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 Front
Band	2450MHz
Channels	Middle
Signal	TDMA (Crest factor: 8.0)



Maximum location: X=-10.00, Y=-22.00

SAR 10g (W/Kg)	0.097124
SAR 1g (W/Kg)	0.164208

