

SAR Test Report

Report No.: AGC01321140701FH01

FCC ID : 2ABGBQ55

APPLICATION PURPOSE : Original Equipment

PRODUCT DESIGNATION : Mobile Phone

BRAND NAME : QUE

MODEL NAME : QUE 5.5

CLIENT : Complex International Limited

DATE OF ISSUE : July 11,2014

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	/	July 11,2014	Valid	Original Report

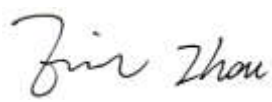
The test plans were performed in accordance with IEEE Std. 1528:2003; 47CFR § 2.1093; IEEE/ANSI C95.1 and the following specific FCC Test Procedures:

- KDB 447498 D01 General RF Exposure Guidance v05r02
- KDB 648474 D04 SAR Handsets Multi Xmitter and Ant v01
- KDB 865664 D01 SAR measurement 100 MHz to 6 GHz v01r03
- KDB 941225 D01 SAR test for 3G devices v02
- KDB 941225 D02 Guidance for 3GPP R6 and R7 HSPA v02r02
- KDB 941225 D03 SAR Test Reduction GSM GPRS EDGE v01
- KDB 941225 D06 Hot Spot SAR v01
- KDB 248227 D01 SAR meas for 802 11 a b g v01r02

Test Report Certification

Applicant Name	Complex International Limited
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Manufacturer Name	Complex International Limited
Manufacturer Address	Unit 902-904, 9th Floor, Tower B, Hung Hom Commercial Centre, 37, Ma Tau Wai Road, Hung Hum, Kowloon, HongKong
Product Designation	Mobile Phone
Brand Name	QUE
Model Name	QUE 5.5
Different Description	5.5 inch 3G smart phone
EUT Voltage	DC3.7V by battery
Applicable Standard	IEEE Std. 1528:2003 47CFR § 2.1093 IEEE/ANSI C95.1
Test Date	July 10,2014
Performed Location	Attestation of Global Compliance(Shenzhen) Co., Ltd. 2 F, Building 2, No.1-No.4, Chaxi Sanwei Technical Industrial Park, Gushu, Xixiang Street, Bao'an District, Shenzhen, China
Report Template	AGCRT-US-3G3/SAR (2014-04-01)

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1. SUMMARY OF MAXIMUM SAR VALUE

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

Highest Report standalone SAR Summary

Exposure Position	Frequency Band	Highest Tested 1g-SAR(W/Kg)	Highest Scaled Maximum SAR(W/Kg)
Head	GSM 835	0.301	0.316
	PCS 1900	0.475	0.496
	WCDMA Band II	1.113	1.136
	WCDMA Band V	0.785	0.796
	WCDMA Band IV	0.745	0.752
Body- worn	GSM 835	0.513	0.538
	PCS 1900	0.736	0.769
	WCDMA Band II	1.156	1.175
	WCDMA Band V	0.937	0.950
	WCDMA Band IV	1.073	1.083

Exposure Position	Test Mode	Highest Tested 1g-SAR(W/Kg)	Highest Scaled Maximum SAR(W/Kg)
Head	802.11b	0.197	0.205
Body	802.11b	0.184	0.191
	HOTSPOT	0.184	0.191

Exposure Position	Frequency Band	Highest Simultaneous SAR(W/Kg)
Head	GSM 835+WLAN	0.521
	PCS 1900+WLAN	0.701
	WCDMA Band II+WLAN	1.341
	WCDMA Band V+WLAN	1.001
	WCDMA Band IV+WLAN	0.886
Body- worn	GSM 835+WLAN	0.712
	PCS 1900+WLAN	0.943
	WCDMA Band II+WLAN	1.349
	WCDMA Band V+WLAN	1.124
	WCDMA Band IV+WLAN	1.257

Highest Simultaneous transmission SAR Summary

This device is compliance with Specific Absorption Rate (SAR) for general population/uncontrolled exposure limits (1.6W/Kg) specified in FCC 47 CFR part 2 (2.1093) and ANSI/IEEE C95.1, and had been tested in accordance with measurement methods and procedures specified in IEEE 1528-2003 and the relevant KDB files like KDB 941225 D01 , KDB 941225 D03 ,KDB 865664 D02....etc.

2. GENERAL INFORMATION

2.1. EUT Description

General Information	
Product Designation	Mobile Phone
Test Model	QUE 5.5
Hardware Version	K28_MB_V2.0
Software Version	N/A
Device Category	Portable
RF Exposure Environment	Uncontrolled
Antenna Type	Internal
GSM and GPRS&EGPRS	
Support Band	☒ GSM 850 ☒ PCS 1900 (U.S. Bands) ☒ GSM 900 ☒ DCS 1800 (Non-U.S. Bands)
GPRS &EGPRS Type	Class B
GPRS &EGPRS Class	Class 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, GMSK&8-PSK for EGPRS
Antenna Gain	-1.0dBi(GSM/WCDMA 850), -0.8dBi (GSM/WCDMA 1900) -0.7dBi (WCDMA 1700)
Max. Average Power (Max. Peak Power)	GSM850: 31.82dBm(32.46dBm- Peak Power) PCS1900: 28.86dBm(29.44dBm-Peak Power)

EUT Description(Continue)

WCDMA	
Support Band	U.S. Bands: ☒ UMTS FDD Band II ☒ UMTS FDD Band V ☒ UMTS FDD Band IV Non-U.S. Bands: ☐ UMTS FDD Band I ☐ UMTS FDD Band III ☐ 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 WCDMA FDD Band IV: 1710-1755MHz
RX Frequency Range	WCDMA FDD Band II: 1930-1990MHz WCDMA FDD Band V: 869-894MHz WCDMA FDD Band IV: 2110.4-2155MHz
Release Version	Rel-6
Type of modulation	QPSK
Antenna Gain	-1.0dBi(GSM/WCDMA 850), -0.8dBi (GSM/WCDMA 1900) -0.7dBi (WCDMA 1700)
Max. Average Power (Max. Peak Power)	Band II: 22.95dBm (23. 23.41dBm- Peak Power) Band V: 22.92dBm (23.37dBm- Peak Power) Band IV: 22.67dBm (23.13dBm- Peak Power)
Bluetooth	
Bluetooth Version	☐ V2.0 ☐ V2.1 ☐ V2.1+EDR ☒ V3.0 ☐ V3.0+HS ☒ V4.0
Operation Frequency	2402~2480MHz
Type of modulation	☒ GFSK ☒ PI/4-DQPSK ☒ 8-DPSK
Avg. Burst Power	2.71dBm
Antenna Gain	0.8dBi
WIFI	
WIFI Specification	☐ 802.11a ☒ 802.11b ☒ 802.11g ☒ 802.11n(20) ☒ 802.11n(40)
Operation Frequency	2412~2462MHz
Avg. Burst Power	11b:13.33dBm,11g:10.66dBm,11n(20):11.36Bm,11n(40):8.7dBm
Antenna Gain	0.8dBi
Accessories	
Battery	Brand name: QUE Model No. : QUE 5.5 Voltage and Capacitance: 3.7 V & 2650mAh
Adapter	Brand name: QUE Model No. : QUE 5.5 Input: AC 100-240V, 50/60Hz, 0.2A Output: DC 5V, 1A
Earphone	Brand name: N/A Model No. : N/A

Note:CMU200 can measure the average power and Peak power at the same time

Product	Type	
	☒ Production unit	☐ Identical Prototype

2.2. 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

2.3. Test Environment

Ambient conditions in the laboratory:

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

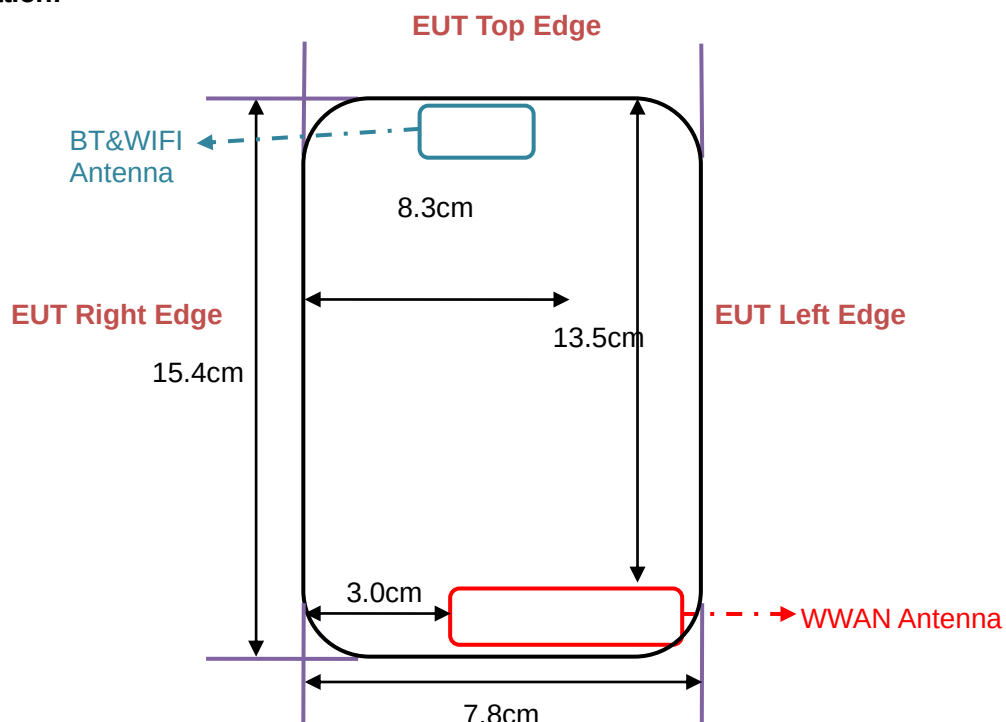
2.4. Test Configuration and setting

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

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

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

Antenna Location:



The separation distance for antenna to edge:

Antenna	To Top Side(cm)	To Bottom Side(cm)	To Left Side(cm)	To Right Side(cm)
WWAN	13.5	0.2	3.0	0.2
BT/WIFI	0.1	14.6	1.8	3.2

The simultaneous transmission possibilities are listed as below:

Simultaneous TX Combination	Configuration	Head	Body	Hotspot
1	GSM835(Voice)+WLAN/BT	Yes	Yes	Yes
2	PCS 1900(Voice)+WLAN/BT	Yes	Yes	Yes
3	WCDMA Band II+WLAN/BT	Yes	Yes	Yes
4	WCDMA Band V +WLAN/BT	Yes	Yes	Yes
5	WCDMA Band IV +WLAN/BT	Yes	Yes	Yes

3. SAR MEASUREMENT SYSTEM

3.1. Specific Absorption Rate (SAR)

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

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

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

SAR is expressed in units of Watts per kilogram (W/Kg)

SAR can be obtained using either of the following equations:

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

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

Where

SAR	is the specific absorption rate in watts per kilogram;
E	is the r.m.s. value of the electric field strength in the tissue in volts per meter;
σ	is the conductivity of the tissue in siemens per metre;
ρ	is the density of the tissue in kilograms per cubic metre;
c_h	is the heat capacity of the tissue in joules per kilogram and Kelvin;

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

3.2. SAR Measurement Procedure

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

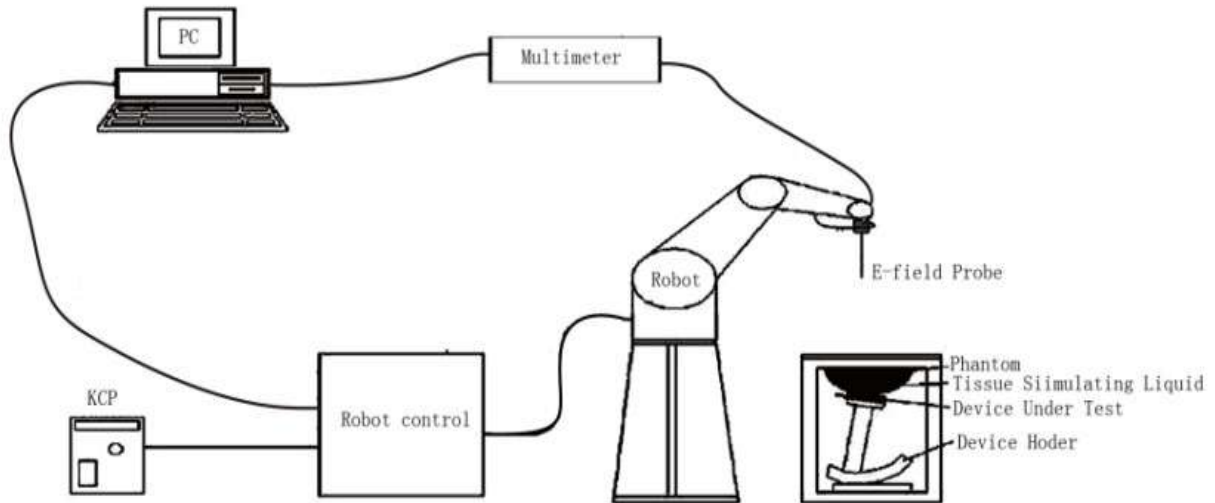
Pre-scans are made on the device to establish the location for the transmitting antenna, using a large area scan in either air or tissue simulation fluid.

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

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

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.

3.3. COMOSAR System Description



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

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

3.3.1. 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.

3.3.2. 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).

3.3.3. 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.

3.3.4. 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.

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

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

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

3.4. 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.

3.5. Isotropic E-Field Probe Specification

Model	SSE5	
Manufacture	SATIMO	
Frequency	0.3GHz-3GHz Linearity:±0.09dB(300MHz-3GHz)	
Dynamic Range	0.01W/Kg-100W/Kg Linearity:±0.09dB	
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%.	

3.6. Robot

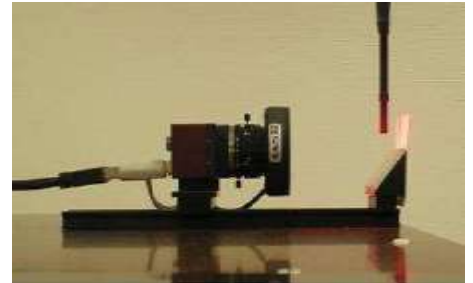
The COMOSAR system uses the KUKA robot from SATIMO SA (France).For the 6-axis controller COMOSAR system, the KUKA robot controller version from SATIMO is used. The XL robot series have many features that are important for our application: ☐ High precision (repeatability 0.02 mm) ☐ High reliability (industrial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

The video positioning system is used in OpenSAR to check the probe. Which is composed of a camera, LED, mirror and mechanical parts. The camera is piloted by the main computer with firewire link.

During the process, the actual position of the probe tip with respect to the robot arm is measured, as well as the probe length and the horizontal probe offset. The software then corrects all movements, such that the robot coordinates are valid for the probe tip.

The repeatability of this process is better than 0.1 mm. If a position has been taught with an aligned probe, the same position will be reached with another aligned probe within 0.1 mm, even if the other probe has different dimensions. During probe rotations, the probe tip will keep its actual position.

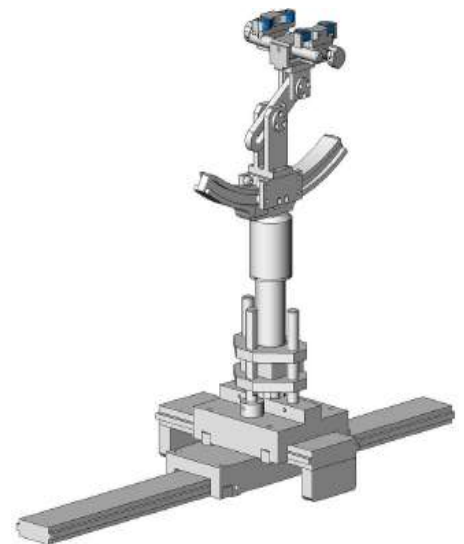


3.8. Device Holder

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.



3.9. 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.

4. TISSUE SIMULATING LIQUID

For SAR measurement of the field distribution inside the phantom, the phantom must be filled with homogeneous tissue simulating liquid to a depth of at least 15cm. For head SAR testing the liquid height from the ear reference point (ERP) of the phantom to the liquid top surface is larger than 15cm For body SAR testing, the liquid height from the center of the flat phantom to the liquid top surface is larger than 15cm. The nominal dielectric values of the tissue simulating liquids in the phantom and the tolerance of 5% are listed in 4.2

4.1. The composition of the tissue simulating liquid

[illegible]

4.2. 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 GSM835							
Fr. (MHz)	Ch.	Dielectric Parameters (±5%)				Tissue Temp [°C]	Test time
		head		body			
		ϵ_r 41.5 39.425-43.575	δ [s/m] 0.90 0.855-0.945	ϵ_r 55.20 52.44-57.96	δ [s/m] 0.97 0.9215-1.0185		
835	128	41.67	0.89	55.48	0.95	21	July 10,2014
835	190	41.01	0.89	55.19	0.96	21	July 10,2014
835	251	41.75	0.91	55.67	0.97	21	July 10,2014

Tissue Stimulant Measurement for 1800MHz							
Fr. (MHz)	Ch.	Dielectric Parameters (±5%)				Tissue Temp [°C]	Test time
		head		body			
		εr 40.00 38.00-42.00	δ[s/m] 1.40 1.33-1.47	εr 53.30 50.635-55.965	δ[s/m] 1.52 1.444-1.596		
1800	Low	39.61	1.38	53.12	1.44	21	July 10,2014
1800	Mid	39.45	1.40	53.47	1.50	21	July 10,2014
1800	High	40.26	1.42	53.73	1.54	21	July 10,2014

Tissue Stimulant Measurement for PCS 1900							
Fr. (MHz)	Ch.	Dielectric Parameters (±5%)				Tissue Temp [°C]	Test time
		head		body			
		εr 40.00 38.00-42.00	δ[s/m] 1.40 1.33-1.47	εr 53.30 50.635-55.965	δ[s/m] 1.52 1.444-1.596		
1900	512	40.16	1.41	53.26	1.50	21	July 10,2014
1900	661	39.62	1.39	52.96	1.48	21	July 10,2014
1900	810	40.10	1.42	53.00	1.53	21	July 10,2014

Tissue Stimulant Measurement for 2450MHz							
Fr. (MHz)	Ch.	Dielectric Parameters (±5%)				Tissue Temp [°C]	Test time
		head		body			
		εr 39.2 37.24-41.16	δ[s/m] 1.80 1.71-1.89	εr 52.7 50.065-55.335	δ[s/m] 1.95 1.8525-2.0475		
2450	1	39.42	1.75	52.77	1.90	21	July 10,2014
2450	6	39.24	1.82	52.36	1.93	21	July 10,2014
2450	11	39.19	1.80	53.14	1.90	21	July 10,2014

4.3. 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

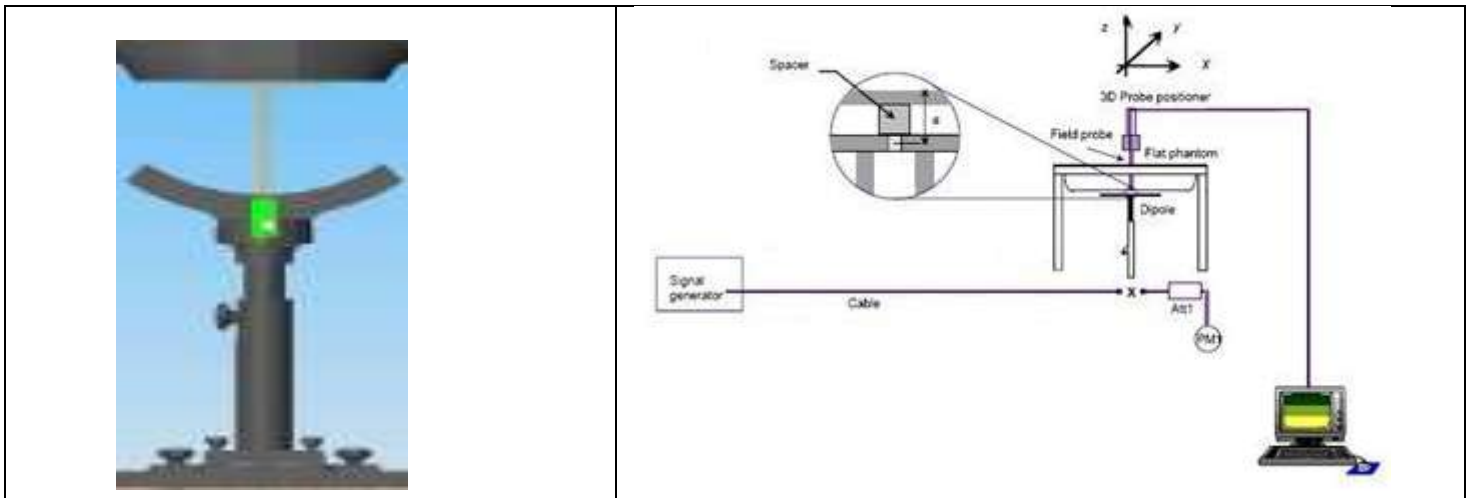
(ϵ_r = relative permittivity, σ = conductivity and ρ = 1000 kg/m³)

5. SAR MEASUREMENT PROCEDURE

5.1. SAR System Validation Procedures

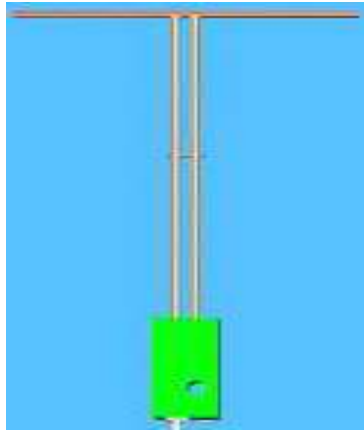
Each SATIMO system is equipped with one or more system validation kits. These units, together with the predefined measurement procedures within the SATIMO software, enable the user to conduct the system performance check and system validation. System kit includes a dipole, and dipole device holder.

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



5.2. SAR System Validation

5.2.1. Validation Dipoles



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

Frequency	L (mm)	h (mm)	d (mm)
900 MHz	149.0	83.3	3.6
1800MHz	71.6	41.7	3.6
1900MHz	68	39.5	3.6
2450MHz	51.5	30.4	3.6

5.2.2. Validation Result

System Performance Check at 835 MHz &1800MHz &1900MHz & 2450MHz for Head								
Validation Kit: SN 46/11DIP 0G900-185 & SN 46/11DIP 1G900-186 & SN 46/11DIP 1G900-187 &SN 46/11DIP 2G450-189								
Frequency [MHz]	Target Value(W/Kg)		Reference Result ($\pm 10\%$)		Tested Value(W/Kg)		Tissue Temp. [°C]	Test time
	1g	10g	1g	10g	1g	10g		
835	10.70	6.72	9.63-11.77	6.048-7.392	10.88	6.70	21	July 10,2014
1800	38.17	19.98	34.353-41.987	17.982-21.978	38.84	20.72	21	July 10,2014
1900	39.65	20.24	35.685-43.615	18.216-22.264	38.52	20.41	21	July 10,2014
2450	54.40	23.75	48.96-59.84	21.375-26.125	49.82	23.98	21	July 10,2014

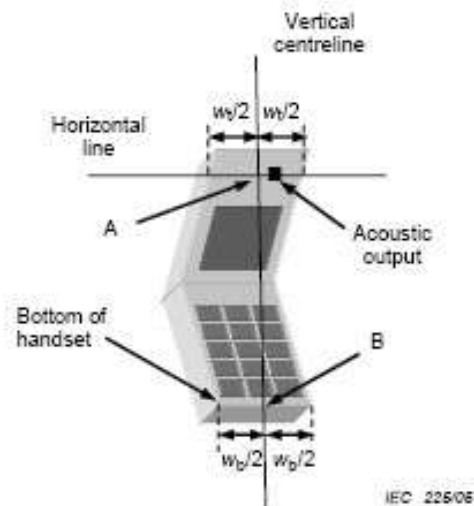
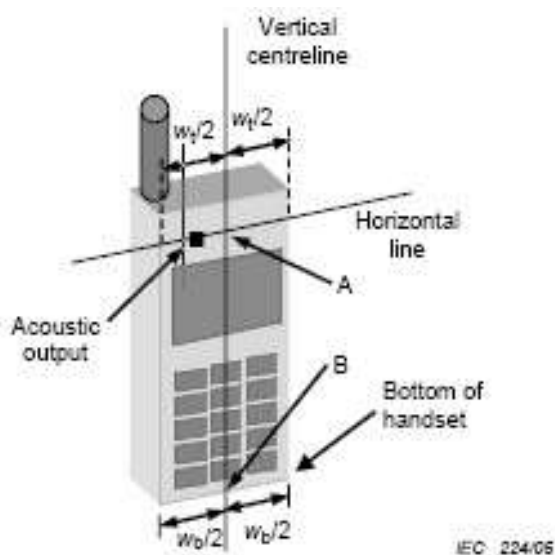
System Performance Check at 835 MHz &1800MHz &1900MHz & 2450MHz for Body								
Validation Kit: SN 46/11DIP 0G900-185 & SN 46/11DIP 1G900-186 & SN 46/11DIP 1G900-187 &SN 46/11DIP 2G450-189								
Frequency [MHz]	Target Value(W/Kg)		Reference Result ($\pm 10\%$)		Tested Value(W/Kg)		Tissue Temp. [°C]	Test time
	1g	10g	1g	10g	1g	10g		
835	11.27	7.18	10.143-12.397	6.462-7.898	10.90	6.82	21	July 10,2014
1800	38.28	20.89	34.452-42.108	18.801-22.979	38.72	20.90	21	July 10,2014
1900	40.74	21.43	36.666-44.814	19.287-23.573	40.22	20.11	21	July 10,2014
2450	54.19	24.96	48.771-59.609	22.464-27.456	50.08	24.10	21	July 10,2014

6. EUT TEST POSITION

This EUT was tested in **Right Cheek, Right Titled, Left Cheek, Left Titled, Front Face and Rear Face.**

6.1. Define Two Imaginary Lines on the Handset

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



6.2. Cheek Position

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



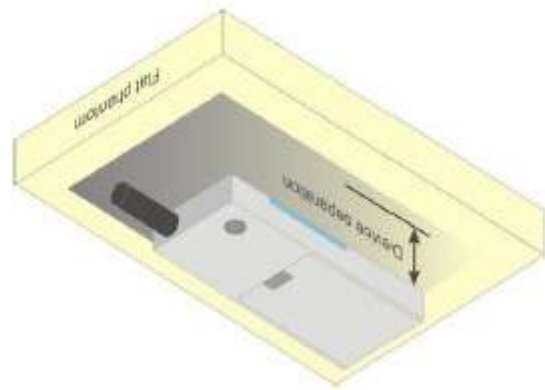
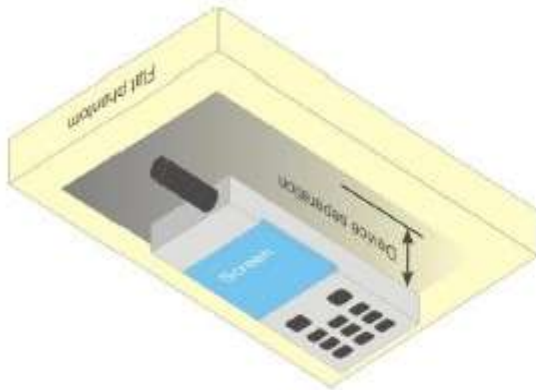
6.3. Title Position

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



6.4. Body Worn Position

- (1) To position the EUT parallel to the phantom surface.
- (2) To adjust the EUT parallel to the flat phantom.
- (3) To adjust the distance between the EUT surface and the flat phantom to **5mm**.



7. 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

8. TEST EQUIPMENT LIST

Equipment description	Manufacturer/ Model	Identification No.	Current calibration date	Next calibration date
SAR Probe	SATIMO	SN 22/12 EP159	01/12/2014	01/11/2015
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	02/17/2014	02/16/2015
Comm Tester	Agilent-8960	GB46310822	02/17/2014	02/16/2015
Multimeter	Keithley 2000	1188656	02/17/2014	02/16/2015
Dipole	SATIMO SID900	SN46/11 DIP 0G900-185	11/14/2013	11/13/2015
Dipole	SATIMO SID1800	SN46/11 DIP 1G800-186	11/14/2013	11/13/2015
Dipole	SATIMO SID1900	SN46/11 DIP 1G900-187	11/14/2013	11/13/2015
Dipole	SATIMO SID2450	SN46/11 DIP 2G450-189	11/14/2013	11/13/2015
Amplifier	Aethercomm	SN 046	12/08/2013	12/07/2014
Signal Generator	Agilent- E4438C	MY44260051	02/23/2014	02/22/2015
Power Probe	HP E4418A	US38261498	02/17/2014	02/16/2015
SPECTRUM ANALYZER	Agilent/E4440A	MY44303916	10/22/2013	10/21/2014
Power Attenuator	BED	DLA-5W	07/30/2013	07/29/2014
Network Analyzer	Rhode & Schwarz ZVA	SN100132	02/17/2014	02/16/2015

Note: Per KDB 865664 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.

9. MEASUREMENT UNCERTAINTY

SATIMO Uncertainty									
Measurement uncertainty for 300MHz to 3GHz averaged over 1 gram / 10 gram.									
Error Description	Sec	Sec	Tol (±%)	Prob. Dist.	(Ci) 1g	(Ci) 10g	Std. Unc. (1g) (±%)	Std. Unc. (10g)(±%)	(Vi) Veff
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	

10. 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	31.82	-9	22.82
	836.6	31.79	-9	22.79
	848.8	31.72	-9	22.72
GPRS 835 (1 Slot)	824.2	31.74	-9	22.74
	836.6	31.63	-9	22.63
	848.8	31.61	-9	22.61
GPRS 835 (2 Slot)	824.2	28.75	-6	22.75
	836.6	28.69	-6	22.69
	848.8	28.66	-6	22.66
GPRS 835 (3 Slot)	824.2	26.67	-4.26	22.41
	836.6	26.55	-4.26	22.29
	848.8	26.54	-4.26	22.28
GPRS 835 (4 Slot)	824.2	25.67	-3	22.67
	836.6	25.56	-3	22.56
	848.8	25.48	-3	22.48
EGPRS 835 (1 Slot)	824.2	26.33	-9	17.33
	836.6	26.22	-9	17.22
	848.8	26.19	-9	17.19
EGPRS 835 (2 Slot)	824.2	24.76	-6	18.76
	836.6	24.69	-6	18.69
	848.8	24.66	-6	18.66
EGPRS 835 (3 Slot)	824.2	22.75	-4.26	18.49
	836.6	22.66	-4.26	18.40
	848.8	22.58	-4.26	18.32
EGPRS 835 (4 Slot)	824.2	21.71	-3	18.71
	836.6	21.67	-3	18.67
	848.8	21.64	-3	18.64

Continue

Mode	Frequency(MHz)	Avg. Burst Power(dBm)	Duty cycle Factor(dBm)	Frame Power(dBm)
Maximum Power <1>				
PCS1900	1850.2	28.86	-9	19.86
	1880	28.81	-9	19.81
	1909.8	28.76	-9	19.76
GPRS1900 (1 Slot)	1850.2	28.75	-9	19.75
	1880	28.63	-9	19.63
	1909.8	28.58	-9	19.58
GPRS1900 (2 Slot)	1850.2	25.74	-6	19.74
	1880	25.65	-6	19.65
	1909.8	25.61	-6	19.61
GPRS1900 (3 Slot)	1850.2	23.89	-4.26	19.63
	1880	23.86	-4.26	19.6
	1909.8	23.74	-4.26	19.48
GPRS1900 (4 Slot)	1850.2	22.73	-3	19.73
	1880	22.71	-3	19.71
	1909.8	22.68	-3	19.68
EGPRS1900 (1 Slot)	1850.2	25.25	-9	16.25
	1880	25.18	-9	16.18
	1909.8	25.11	-9	16.11
EGPRS1900 (2 Slot)	1850.2	23.79	-6	17.79
	1880	23.74	-6	17.74
	1909.8	23.67	-6	17.67
EGPRS1900 (3 Slot)	1850.2	22.33	-4.26	18.07
	1880	22.29	-4.26	18.03
	1909.8	22.22	-4.26	17.96
EGPRS1900 (4 Slot)	1850.2	20.86	-3	17.86
	1880	20.82	-3	17.82
	1909.8	20.76	-3	17.76
Maximum Power <2>				
GSM 835	824.2	31.41	-9	22.41
PCS1900	1850.2	28.44	-9	19.44

UMTS BAND II

Mode	Frequency (MHz)	Avg. Burst Power (dBm)
WCDMA 1900 RMC	1852.4	22.95
	1880	22.88
	1907.6	22.86
WCDMA 1900 AMR	1852.4	22.17
	1880	22.15
	1907.6	22.11
HSDPA Subtest 1	1852.4	22.09
	1880	22.07
	1907.6	22.06
HSDPA Subtest 2	1852.4	22.14
	1880	22.12
	1907.6	22.09
HSDPA Subtest 3	1852.4	22.28
	1880	22.24
	1907.6	22.19
HSDPA Subtest 4	1852.4	22.24
	1880	22.16
	1907.6	22.14
HSUPA Subtest 1	1852.4	22.13
	1880	22.11
	1907.6	22.08
HSUPA Subtest 2	1852.4	22.16
	1880	22.14
	1907.6	22.06
HSUPA Subtest 3	1852.4	22.17
	1880	22.14
	1907.6	22.09
HSUPA Subtest 4	1852.4	22.08
	1880	22.04
	1907.6	22.02
HSUPA Subtest 5	1852.4	22.28
	1880	22.26
	1907.6	22.15

UMTS BAND IV

Mode	Frequency (MHz)	Avg. Burst Power (dBm)
WCDMA 1700 RMC	1712.4	22.67
	1732.6	22.63
	1752.6	22.58
WCDMA 1700 AMR	1712.4	22.32
	1732.6	22.28
	1752.6	22.24
HSDPA Subtest 1	1712.4	22.16
	1732.6	22.14
	1752.6	22.13
HSDPA Subtest 2	1712.4	22.19
	1732.6	22.16
	1752.6	22.14
HSDPA Subtest 3	1712.4	22.33
	1732.6	22.31
	1752.6	22.28
HSDPA Subtest 4	1712.4	22.27
	1732.6	22.19
	1752.6	22.16
HSUPA Subtest 1	1712.4	22.17
	1732.6	22.16
	1752.6	22.09
HSUPA Subtest 2	1712.4	22.14
	1732.6	22.12
	1752.6	22.04
HSUPA Subtest 3	1712.4	22.13
	1732.6	22.12
	1752.6	22.05
HSUPA Subtest 4	1712.4	22.11
	1732.6	22.07
	1752.6	22.05
HSUPA Subtest 5	1712.4	22.29
	1732.6	22.21
	1752.6	22.14

UMTS BAND V

Mode	Frequency (MHz)	Avg. Burst Power (dBm)
WCDMA 835 RMC	826.4	22.92
	836.6	22.86
	846.6	22.84
WCDMA 835 AMR	826.4	22.16
	836.6	22.18
	846.6	22.11
HSDPA Subtest 1	826.4	22.15
	836.6	22.12
	846.6	22.08
HSDPA Subtest 2	826.4	22.13
	836.6	22.11
	846.6	22.09
HSDPA Subtest 3	826.4	22.16
	836.6	22.12
	846.6	22.1
HSDPA Subtest 4	826.4	22.18
	836.6	22.14
	846.6	22.11
HSUPA Subtest 1	826.4	22.18
	836.6	22.16
	846.6	22.14
HSUPA Subtest 2	826.4	22.19
	836.6	22.15
	846.6	22.12
HSUPA Subtest 3	826.4	22.15
	836.6	22.11
	846.6	22.08
HSUPA Subtest 4	826.4	22.13
	836.6	22.08
	846.6	22.06
HSUPA Subtest 5	826.4	22.09
	836.6	22.05
	846.6	22.03

WIFI

Mode	Data Rate (Mbps)	Channel	Frequency(MHz)	Avg. Burst Power(dBm)
802.11b	1	01	2412	13.1
		06	2437	13.33
		11	2462	13.13
802.11g	6	01	2412	9.67
		06	2437	10.66
		11	2462	9.48
802.11n(20)	6.5	01	2412	10.24
		06	2437	11.36
		11	2462	10.63
802.11n(40)	13.5	03	2422	6.6
		06	2437	8.7
		09	2452	6.63

Bluetooth

Modulation	Channel	Frequency(MHz)	Average Power (dBm)
GFSK	0	2402	2.58
	39	2441	2.71
	78	2480	2.35
π /4-DQPSK	0	2402	1.66
	39	2441	1.82
	78	2480	1.38
8-DPSK	0	2402	1.62
	39	2441	1.79
	78	2480	1.41

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

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

UE Transmit Channel Configuration	CM(db)	MPR(db)
For all combinations of ,DPDCH,DPCCH HS-DPDCH,E-DPDCH and E-DPCCH	$0 \leq CM \leq 3.5$	$MAX(CM-1,0)$
Note: CM=1 for $\beta_c/\beta_d=12/15$, $\beta_{hs}/\beta_c=24/15$.For all other combinations of DPDCH, DPCCH, HS-DPCCH, E-DPDCH and E-DPCCH the MPR is based on the relative CM difference.		

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

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

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

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

11. TEST RESULTS

11.1. SAR Test Results Summary

11.1.1. 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; Body SAR was also performed with the headset attached and without. The overall device length and width(15.1cm×7.2cm) are >9cm×5cm, Hotspot mode with a test separation distance of 10mm.

11.1.2. Operation Mode

- According to KDB 447498 D01 v05r01 ,for each exposure position, if the highest 1-g SAR is ≤ 0.8 W/kg, testing for low and high channel is optional.
- Per KDB 865664 D01 v01r01,for each frequency band, if the measured SAR is ≥ 0.8 W/Kg, testing for repeated SAR measurement is required , that the highest measured SAR is only to be tested. When the SAR results are near the limit, the following procedures are required for each device to verify these types of SAR measurement related variation concerns by repeating the highest measured SAR configuration in each frequency band.
 - (1) When the original highest measured SAR is ≥ 0.8 W/Kg, repeat that measurement once.
 - (2) Perform a second repeated measurement only if the ratio of largest to smallest SAR for the original and first repeated measurements is > 1.20 or when the original or repeated measurement is ≥ 1.45 W/Kg.
 - (3) Perform a third repeated measurement only if the original, first and second repeated measurement is ≥ 1.5 W/Kg and ratio of largest to smallest SAR for the original, first and second measurement is ≥ 1.20 .
- 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 ≤ 1.2 W/Kg, SAR testing with a headset connected is not required.
- According to 941225 D06, when the overall device length and width are >9cm×5cm, Hotspot mode with a test separation distance of 10mm. For device with form factors smaller than 9cm×5cm, 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.) × [maximum turn-up power (mw)/ maximum measurement output power(mw)]

11.1.3. Test Result

SAR MEASUREMENT									
Ambient Temperature (°C) : 21 ± 2					Relative Humidity (%): 55				
Liquid Temperature (°C) : 21 ± 2					Depth of Liquid (cm):>15				
Product: Mobile Phone									
Test Mode: GSM835 with GMSK modulation									
Position	Mode	Ch.	Fr. (MHz)	Power Drift (<±5%)	SAR (1g) (W/kg)	Max. Turn-up Power (dBm)	Meas. output Power (dBm)	Scaled SAR (W/Kg)	Limit W/kg
SIM 1 Card									
Left Cheek	voice	190	836.6	0.63	0.301	32.00	31.79	0.316	1.6
Left Tilt	voice	190	836.6	-0.19	0.246	32.00	31.79	0.258	1.6
Right Cheek	voice	190	836.6	-1.03	0.274	32.00	31.79	0.288	1.6
Right Tilt	voice	190	836.6	0.26	0.263	32.00	31.79	0.276	1.6
Body back	voice	190	836.6	-0.95	0.513	32.00	31.79	0.538	1.6
Body front	voice	190	836.6	0.45	0.284	32.00	31.79	0.298	1.6
SIM 2 Card									
Left Cheek	voice	190	836.6	-0.52	0.296	32.00	31.79	0.311	1.6

Note:

- The test separation of all above table for body part is 5mm.
- The worst mode is voice mode.

SAR MEASUREMENT									
Ambient Temperature (°C) : 21 ± 2					Relative Humidity (%): 55				
Liquid Temperature (°C) : 21 ± 2					Depth of Liquid (cm):>15				
Product: Mobile Phone									
Test Mode: GSM1900 with GMSK modulation									
Position	Mode	Ch.	Fr. (MHz)	Power Drift (<±5%)	SAR (1g) (W/kg)	Max. Turn-up Power (dBm)	Meas. output Power (dBm)	Scaled SAR (W/Kg)	Limit W/kg
SIM 1 Card									
Left Cheek	voice	661	1880.0	-0.31	0.475	29.00	28.81	0.496	1.6
Left Tilt	voice	661	1880.0	0.45	0.185	29.00	28.81	0.193	1.6
Right Cheek	voice	661	1880.0	-0.95	0.366	29.00	28.81	0.382	1.6
Right Tilt	voice	661	1880.0	1.02	0.358	29.00	28.81	0.374	1.6
Body back	voice	661	1880.0	-0.66	0.736	29.00	28.81	0.769	1.6
Body front	voice	661	1880.0	0.17	0.404	29.00	28.81	0.422	1.6
SIM 2 Card									
Left Cheek	voice	661	1880.0	-0.17	0.444	29.00	28.81	0.464	1.6

Note:

- The test separation of all above table for body part is 5mm.
- The worst mode is voice mode.

SAR MEASUREMENT									
Ambient Temperature (°C) : 21 ± 2					Relative Humidity (%): 55				
Liquid Temperature (°C) : 21 ± 2					Depth of Liquid (cm):>15				
Product: Mobile Phone									
Test Mode: WCDMA Band II with QPSK modulation									
Position	Mode	Ch.	Fr. (MHz)	Power Drift (<±5%)	SAR (1g) (W/kg)	Max. Turn-up Power (dBm)	Meas. output Power (dBm)	Scaled SAR (W/Kg)	Limit W/kg
SIM 1 Card									
Left Cheek	RMC 12.2kbps	9262	1852.4	-0.12	0.533	22.95	22.95	0.533	1.6
Left Cheek	RMC 12.2kbps	9400	1880	0.62	0.941	22.95	22.88	0.956	1.6
Left Cheek	RMC 12.2kbps	9538	1907.6	-0.13	1.113	22.95	22.86	1.136	1.6
Left Tilt	RMC 12.2kbps	9400	1880	0.98	0.194	22.95	22.88	0.197	1.6
Right Cheek	RMC 12.2kbps	9400	1880	-0.46	0.662	22.95	22.88	0.673	1.6
Right Tilt	RMC 12.2kbps	9400	1880	-1.02	0.165	22.95	22.88	0.168	1.6
Body back	RMC 12.2kbps	9262	1852.4	0.36	0.995	22.95	22.95	0.995	1.6
Body back	RMC 12.2kbps	9400	1880	0.78	1.156	22.95	22.88	1.175	1.6
Body back	RMC 12.2kbps	9538	1907.6	-1.16	0.994	22.95	22.86	1.015	1.6
Body front	RMC 12.2kbps	9400	1880	0.23	0.784	22.95	22.88	0.797	1.6

Note:

- The test separation of all above table for body part is 5mm.
- The worst mode is voice mode.

SAR MEASUREMENT									
Ambient Temperature (°C) : 21 ± 2					Relative Humidity (%): 55				
Liquid Temperature (°C) : 21 ± 2					Depth of Liquid (cm):>15				
Product: Mobile Phone									
Test Mode: WCDMA Band V with QPSK modulation									
Position	Mode	Ch.	Fr. (MHz)	Power Drift (<±5%)	SAR (1g) (W/kg)	Max. Turn-up Power (dBm)	Meas. output Power (dBm)	Scaled SAR (W/Kg)	Limit W/kg
SIM 1 Card									
Left Cheek	RMC 12.2kbps	4183	836.6	-0.85	0.785	22.92	22.86	0.796	1.6
Left Tilt	RMC 12.2kbps	4183	836.6	1.14	0.384	22.92	22.86	0.389	1.6
Right Cheek	RMC 12.2kbps	4183	836.6	-0.32	0.585	22.92	22.86	0.593	1.6
Right Tilt	RMC 12.2kbps	4183	836.6	0.74	0.414	22.92	22.86	0.420	1.6
Body back	RMC 12.2kbps	4132	826.4	-0.25	0.746	22.92	22.92	0.746	1.6
Body back	RMC 12.2kbps	4183	836.6	0.33	0.937	22.92	22.86	0.950	1.6
Body back	RMC 12.2kbps	4233	846.6	-0.98	0.863	22.92	22.84	0.897	1.6
Body front	RMC 12.2kbps	4183	836.6	0.75	0.556	22.92	22.86	0.564	1.6

Note:

- The test separation of all above table for body part is 5mm.
- The worst mode is voice mode.

SAR MEASUREMENT									
Ambient Temperature (°C) : 21 ± 2					Relative Humidity (%): 55				
Liquid Temperature (°C) : 21 ± 2					Depth of Liquid (cm):>15				
Product: Mobile Phone									
Test Mode: WCDMA Band IV with QPSK modulation									
Position	Mode	Ch.	Fr. (MHz)	Power Drift (<±5%)	SAR (1g) (W/kg)	Max. Turn-up Power (dBm)	Meas. output Power (dBm)	Scaled SAR (W/Kg)	Limit W/kg
SIM 1 Card									
Left Cheek	RMC 12.2kbps	1413	1732.6	-0.15	0.685	22.67	22.63	0.691	1.6
Left Tilt	RMC 12.2kbps	1413	1732.6	1.12	0.245	22.67	22.63	0.247	1.6
Right Cheek	RMC 12.2kbps	1413	1732.6	-0.36	0.745	22.67	22.63	0.752	1.6
Right Tilt	RMC 12.2kbps	1413	1732.6	0.74	0.201	22.67	22.63	0.203	1.6
Body back	RMC 12.2kbps	1312	1712.4	-0.59	0.959	22.67	22.67	0.959	1.6
Body back	RMC 12.2kbps	1413	1732.6	0.61	1.073	22.67	22.63	1.083	1.6
Body back	RMC 12.2kbps	1513	1752.6	-0.23	0.955	22.67	22.58	0.975	1.6
Body front	RMC 12.2kbps	1413	1732.6	-0.43	0.561	22.67	22.63	0.566	1.6

Note:

- The test separation of all above table for body part is 5mm.
- The worst mode is voice mode.

Repeated SAR								
Ambient Temperature (°C) : 21 ± 2					Relative Humidity (%): 55			
Liquid Temperature (°C) : 21 ± 2					Depth of Liquid (cm):>15			
Product: Mobile Phone								
Test Mode: WCDMA Band II& WCDMA Band V& WCDMA Band IV with QPSK modulation								
Position	Mode	Ch.	Fr. (MHz)	Power Drift (<±5%)	Once SAR (1g) (W/kg)	Twice SAR (1g) (W/kg)	Third SAR (1g) (W/kg)	Limit W/kg
Left Cheek	RMC 12.2kbps	9538	1907.6	0.74	1.056	--	--	1.6
Body back	RMC 12.2kbps	9400	1880	-0.26	0.973	--	--	1.6
Body back	RMC 12.2kbps	4183	836.6	0.31	0.915	--	--	1.6
Body back	RMC 12.2kbps	1413	1732.6	-0.55	0.853	--	--	1.6

SAR MEASUREMENT									
Ambient Temperature (°C) : 21 ± 2					Relative Humidity (%): 55				
Liquid Temperature (°C) : 21 ± 2					Depth of Liquid (cm):>15				
Product: Mobile Phone									
Test Mode:802.11b									
Position	Mode	Ch.	Fr. (MHz)	Power Drift (<±5%)	SAR (1g) (W/kg)	Max. Turn-up Power (dBm)	Meas. output Power (dBm)	Scaled SAR (W/Kg)	Limit W/kg
SIM 1 Card									
Left Cheek	DTS	6	2437	-0.56	0.197	13.50	13.33	0.205	1.6
Left Tilt	DTS	6	2437	1.07	0.114	13.50	13.33	0.119	1.6
Right Cheek	DTS	6	2437	0.95	0.129	13.50	13.33	0.134	1.6
Right Tilt	DTS	6	2437	-0.46	0.097	13.50	13.33	0.101	1.6
Body back	DTS	6	2437	1.02	0.167	13.50	13.33	0.174	1.6
Body front	DTS	6	2437	-0.74	0.184	13.50	13.33	0.191	1.6

Note:

- According to KDB248227, SAR is not required for 802.11n HT20/HT40 channels when the maximum average output power is less than 1/4 dB higher than that measured on the corresponding 802.11a/b channels.
- All of above "DTS" means data transmitters.
- The test separation of all above table for body part is 10mm.

SAR MEASUREMENT									
Ambient Temperature (°C) : 21 ± 2					Relative Humidity (%): 55				
Liquid Temperature (°C) : 21 ± 2					Depth of Liquid (cm):>15				
Product: Mobile Phone									
Test Mode: Hotspot									
Position	Mode	Ch.	Fr. (MHz)	Power Drift (<±5%)	SAR (1g) (W/kg)	Max. Turn-up Power (dBm)	Meas. output Power (dBm)	Scaled SAR (W/Kg)	Limit W/kg
SIM 1 Card									
Body back	DTS	6	2437	0.79	0.167	13.50	13.33	0.174	1.6
Body front	DTS	6	2437	-1.09	0.184	13.50	13.33	0.191	1.6

Note:

- According to KDB248227, SAR is not required for 802.11n HT20/HT40 channels when the maximum average output power is less than 1/4 dB higher than that measured on the corresponding 802.11a/b channels.
- All of above "DTS" means data transmitters.
- The test separation of all above table for body part is 10mm.

Simultaneous Multi-band Transmission Evaluation:

NO	Simultaneous state	Portable Handset			Note
		Head	Body-worn	Hotspot	
1	GSM(voice)+WLAN 2.4GHz (data)	Yes	Yes	-	-
2	WCDMA(voice)+WLAN 2.4GHz (data)	Yes	Yes	-	-
3	GSM(voice)+Bluetooth(data)	Yes	Yes	-	-
4	WCDMA(voice)+Bluetooth(data)	Yes	Yes	-	-
5	GSM(voice)+WLAN 2.4GHz (data)	-	Yes	Yes	2.4GHz Hotspot
6	WCDMA(voice)+WLAN 2.4GHz (data)	-	Yes	Yes	2.4GHz Hotspot

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 $\leq 50\text{mm}$, 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) $(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm}) \cdot \sqrt{f \text{ (GHz)}} / x$ 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) 0.4W/Kg for 1-g SAR and 1.0W/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	3	1.995	5	10	NO	0.0831 W/kg	0.0831 W/kg
	Body			5	10	NO		

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

BT: Head (0 cm gap): 0.0831W/kg and Body (0.5 cm gap): 0.0831 W/kg

WIFI: Head (0 cm gap): 0.205W/kg and Body (0.5 cm gap): 0.191 W/kg

HOTSPOT: Body (0.5/1.0 cm gap): 0.191 W/kg

WIFI

Position	Max. WWAN SAR (W/Kg)	Max. WLAN SAR (W/Kg)	SAR Summation	Limit (W/kg)	SPLSR ≤ 0.04 (Yes/No)
GSM850+WLAN 2.4G-DTS					
Left Cheek	0.316	0.205	0.521	1.6	No
Left Tilt	0.258	0.119	0.377	1.6	No
Right Cheek	0.288	0.134	0.422	1.6	No
Right Tilt	0.276	0.101	0.377	1.6	No
Body back	0.538	0.174	0.712	1.6	No
Body front	0.298	0.191	0.489	1.6	No
PCS1900+WLAN 2.4G-DTS					
Left Cheek	0.496	0.205	0.701	1.6	No
Left Tilt	0.193	0.119	0.312	1.6	No
Right Cheek	0.382	0.134	0.516	1.6	No
Right Tilt	0.374	0.101	0.475	1.6	No
Body back	0.769	0.174	0.943	1.6	No
Body front	0.422	0.191	0.613	1.6	No
WCDMA Band II +WLAN 2.4G-DTS					
Left Cheek	1.136	0.205	1.341	1.6	No
Left Tilt	0.197	0.119	0.316	1.6	No
Right Cheek	0.673	0.134	0.807	1.6	No
Right Tilt	0.168	0.101	0.269	1.6	No
Body back	1.175	0.174	1.349	1.6	No
Body front	0.797	0.191	0.988	1.6	No
WCDMA Band V +WLAN 2.4G-DTS					
Left Cheek	0.796	0.205	1.001	1.6	No
Left Tilt	0.389	0.119	0.508	1.6	No
Right Cheek	0.593	0.134	0.727	1.6	No
Right Tilt	0.420	0.101	0.521	1.6	No
Body back	0.950	0.174	1.124	1.6	No
Body front	0.564	0.191	0.755	1.6	No
WCDMA Band IV +WLAN 2.4G-DTS					
Left Cheek	0.691	0.205	0.896	1.6	No
Left Tilt	0.247	0.119	0.366	1.6	No
Right Cheek	0.752	0.134	0.886	1.6	No
Right Tilt	0.203	0.101	0.304	1.6	No
Body back	1.083	0.174	1.257	1.6	No
Body front	0.566	0.191	0.757	1.6	No

HOTSPOT

Position	Max. WWAN SAR (W/Kg)	Max. WLAN SAR (W/Kg)	SAR Summation	Limit (W/kg)	SPLSR ≤ 0.04 (Yes/No)
GSM850+ HOTSPOT					
Body back	0.538	0.174	0.712	1.6	No
Body front	0.298	0.191	0.489	1.6	No
PCS1900+ HOTSPOT					
Body back	0.769	0.174	0.943	1.6	No
Body front	0.422	0.191	0.613	1.6	No
WCDMA Band II + HOTSPOT					
Body back	1.175	0.174	1.349	1.6	No
Body front	0.797	0.191	0.988	1.6	No
WCDMA Band V + HOTSPOT					
Body back	0.950	0.174	1.124	1.6	No
Body front	0.564	0.191	0.755	1.6	No
WCDMA Band IV + HOTSPOT					
Body back	1.083	0.174	1.257	1.6	No
Body front	0.566	0.191	0.757	1.6	No

BT

Position	Max. WWAN SAR (W/Kg)	Estimated SAR (W/Kg)	SAR Summation	Limit (W/kg)	SPLSR ≤ 0.04 (Yes/No)
GSM850+ BT					
Left Cheek	0.316	0.0831	0.399	1.6	No
Left Tilt	0.258	0.0831	0.341	1.6	No
Right Cheek	0.288	0.0831	0.371	1.6	No
Right Tilt	0.276	0.0831	0.359	1.6	No
Body back	0.538	0.0831	0.621	1.6	No
Body front	0.298	0.0831	0.381	1.6	No
PCS1900+ BT					
Left Cheek	0.496	0.0831	0.579	1.6	No
Left Tilt	0.193	0.0831	0.276	1.6	No
Right Cheek	0.382	0.0831	0.465	1.6	No
Right Tilt	0.374	0.0831	0.457	1.6	No
Body back	0.769	0.0831	0.852	1.6	No
Body front	0.422	0.0831	0.505	1.6	No
WCDMA Band II + BT					
Left Cheek	1.136	0.0831	1.219	1.6	No
Left Tilt	0.197	0.0831	0.280	1.6	No
Right Cheek	0.673	0.0831	0.756	1.6	No
Right Tilt	0.168	0.0831	0.251	1.6	No
Body back	1.175	0.0831	1.258	1.6	No
Body front	0.797	0.0831	0.880	1.6	No
WCDMA Band V + BT					
Left Cheek	0.796	0.0831	0.879	1.6	No
Left Tilt	0.389	0.0831	0.472	1.6	No
Right Cheek	0.593	0.0831	0.676	1.6	No
Right Tilt	0.420	0.0831	0.503	1.6	No
Body back	0.950	0.0831	1.033	1.6	No
Body front	0.564	0.0831	0.647	1.6	No
WCDMA Band IV + BT					
Left Cheek	0.691	0.0831	0.774	1.6	No
Left Tilt	0.247	0.0831	0.330	1.6	No
Right Cheek	0.752	0.0831	0.835	1.6	No
Right Tilt	0.203	0.0831	0.286	1.6	No
Body back	1.083	0.0831	1.166	1.6	No
Body front	0.566	0.0831	0.649	1.6	No

APPENDIX A. SAR SYSTEM VALIDATION DATA

Test Laboratory: AGC Lab

Date: July 10,2014

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=5.27

Frequency: 835 MHz; Medium parameters used: $f = 835$ MHz; $\sigma=0.89$ mho/m; $\epsilon_r=41.01$; $\rho= 1000$ kg/m³ ;

Phantom section: Flat Section; Input Power=10dBm

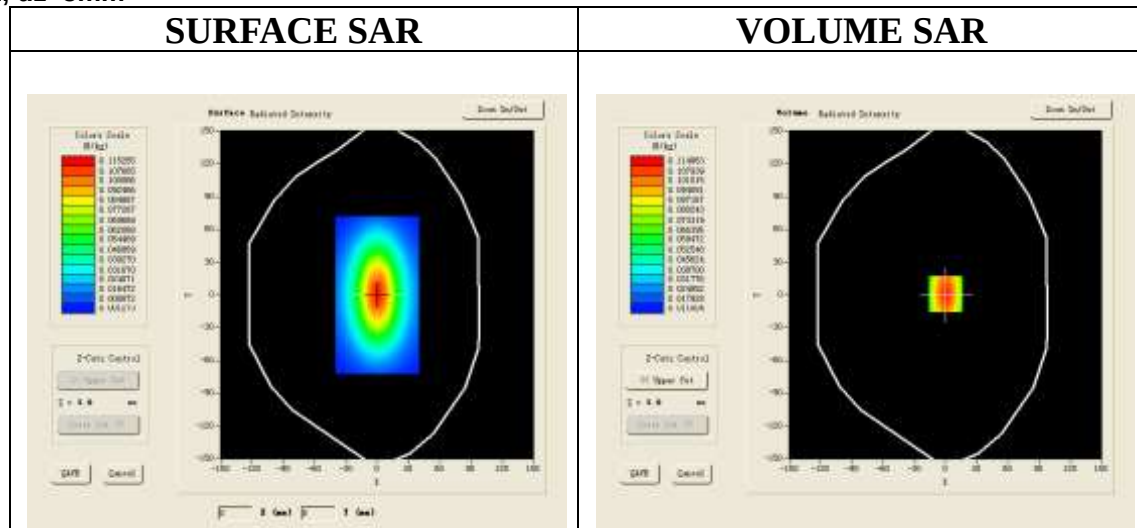
Ambient temperature (°C): 21, Liquid temperature (°C): 21

SATIMO Configuration:

- Probe: SSE5; Calibrated: 01/12/2014; Serial No.:SN 22/12 EP159
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: Flat Phantom; Type: Elliptical Phantom
- Measurement SW: OpenSAR V4_02_01

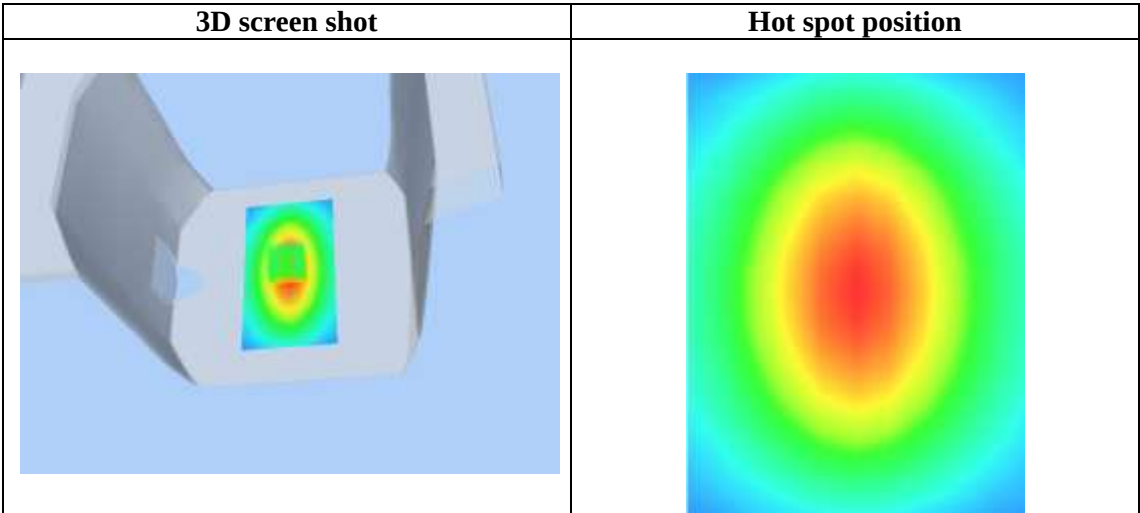
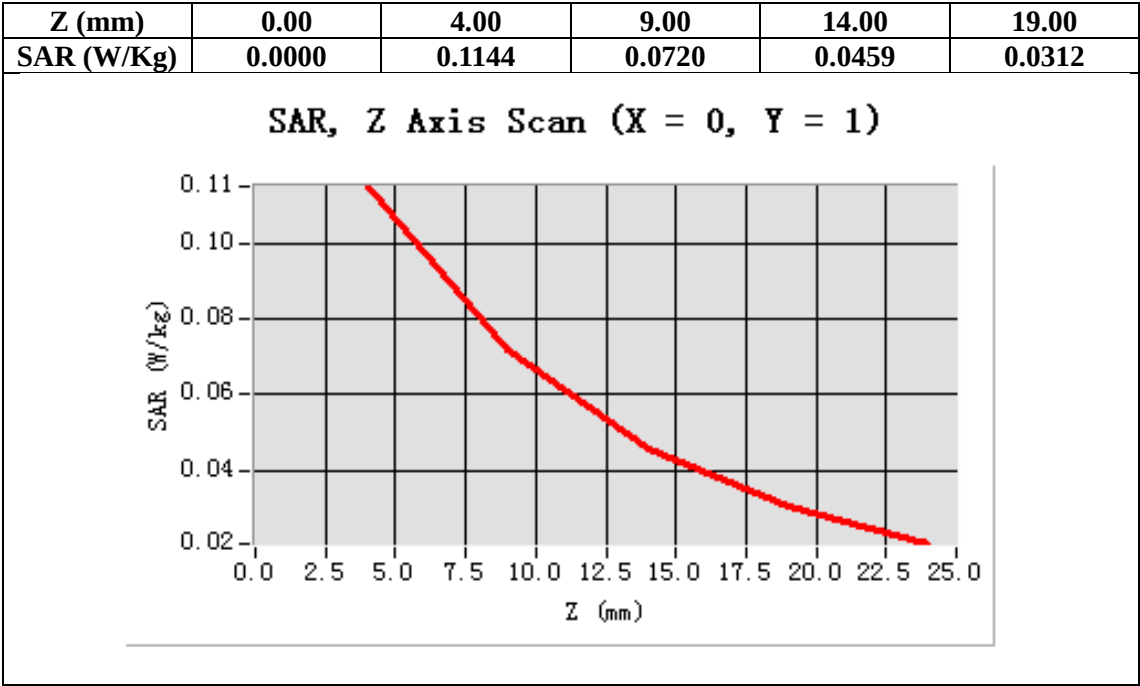
Configuration/System Check GSM 835 Head/Area Scan: Measurement grid: dx=8mm, dy=8mm

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



Maximum location: X=0.00, Y=1.00

SAR 10g (W/Kg)	0.067013
SAR 1g (W/Kg)	0.108762



Test Laboratory: AGC Lab
System Check Body 835 MHz
DUT: Dipole 900 MHz Type: SID 900

Date: July 10,2014

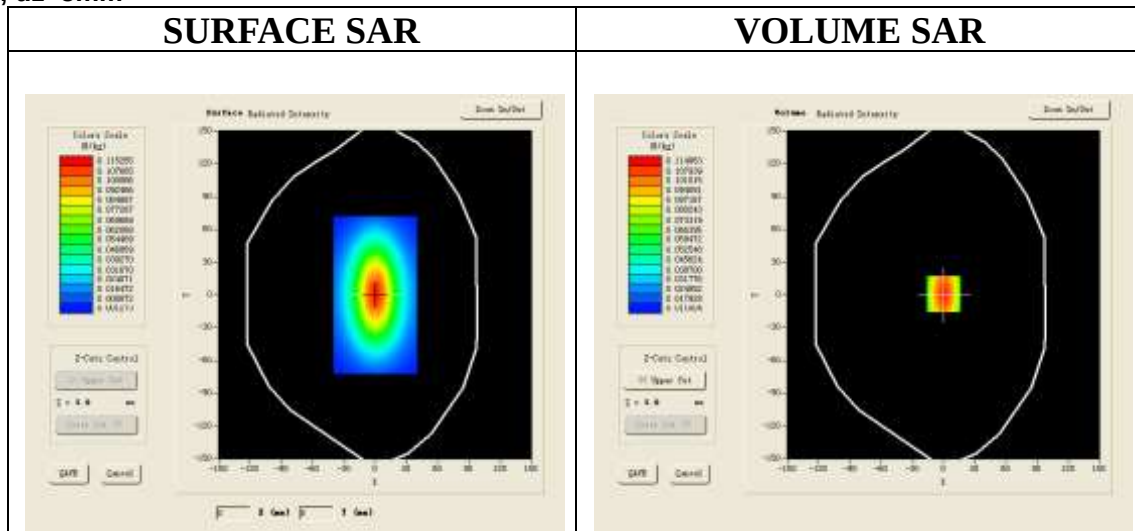
Communication System CW; Communication System Band: D835 (835.0 MHz); Duty Cycle: 1:1; Conv.F=5.48
Frequency: 835 MHz; Medium parameters used: $f = 835 \text{ MHz}$; $\sigma=0.96 \text{ mho/m}$; $\epsilon_r=55.19$; $\rho= 1000 \text{ kg/m}^3$;
Phantom section: Flat Section; Input Power=10dBm
Ambient temperature ($^{\circ}\text{C}$): 21, Liquid temperature ($^{\circ}\text{C}$): 21

SATIMO Configuration:

- Probe: SSE5; Calibrated: 01/12/2014; Serial No.:SN 22/12 EP159
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: Flat Phantom; Type: Elliptical Phantom
- Measurement SW: OpenSAR V4_02_01

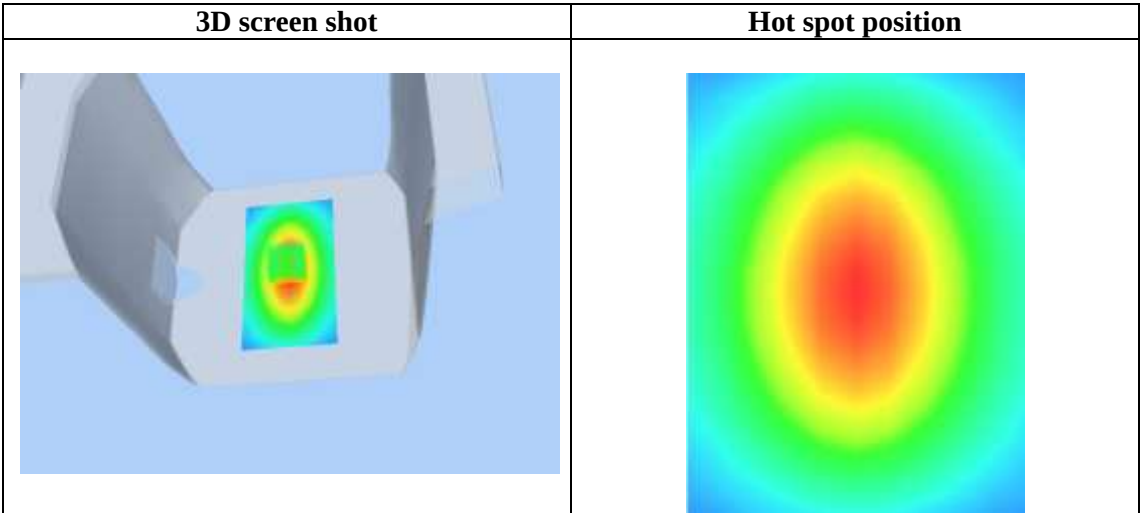
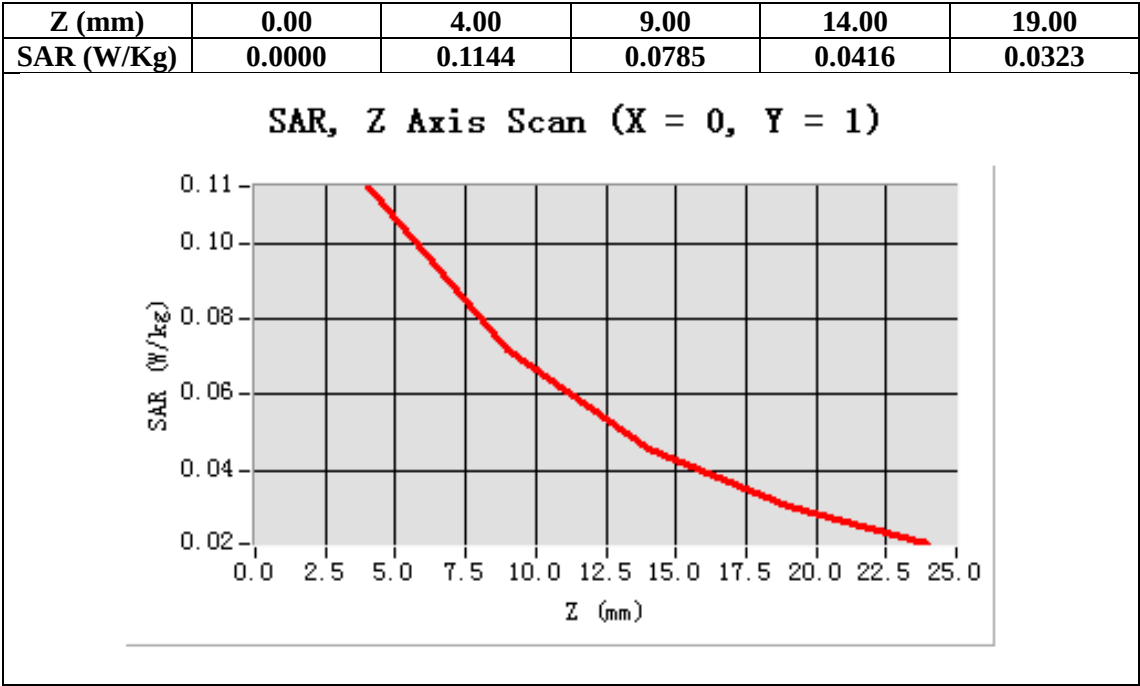
Configuration/System Check GSM 835 Body/Area Scan: Measurement grid: dx=8mm, dy=8mm

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



Maximum location: X=0.00, Y=1.00

SAR 10g (W/Kg)	0.068174
SAR 1g (W/Kg)	0.109045



Test Laboratory: AGC Lab
System Check Head 1700MHz
DUT: Dipole 1700 MHz; Type: SID 1800

Date: July 10,2014

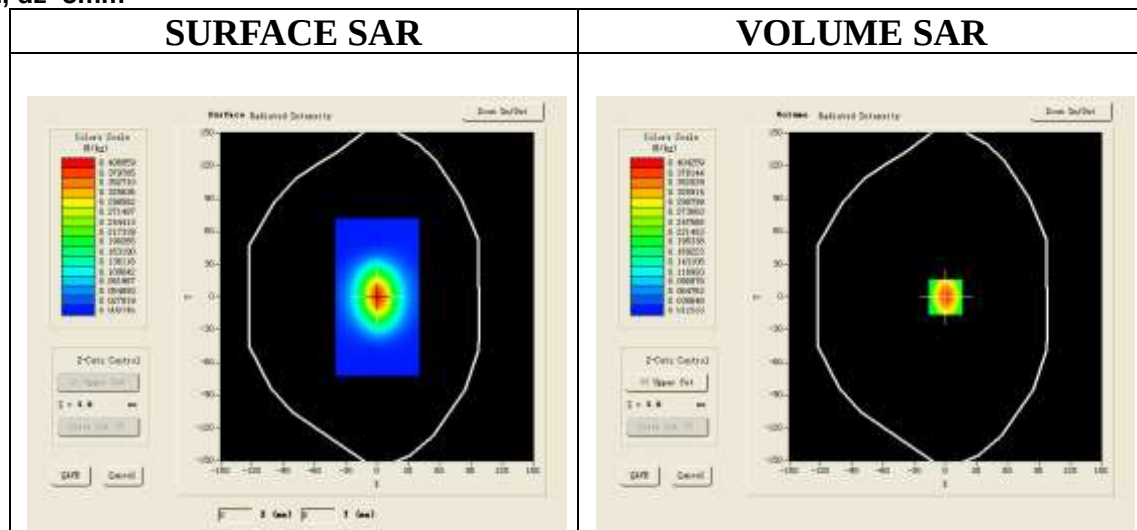
Communication System: CW; Communication System Band: D1700 (1700.0 MHz); Duty Cycle:1:1; Conv.F=4.58
Frequency: 1700 MHz; Medium parameters used: $f = 1732.6$ MHz; $\sigma = 1.40$ mho/m; $\epsilon_r = 39.45$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section; Input Power=10dBm
Ambient temperature (°C): 21, Liquid temperature (°C): 21

SATIMO Configuration:

- Probe: SSE5; Calibrated: 01/12/2014; Serial No.:SN 22/12 EP159
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: Flat Phantom; Type: Elliptical Phantom
- Measurement SW: OpenSAR V4_02_01

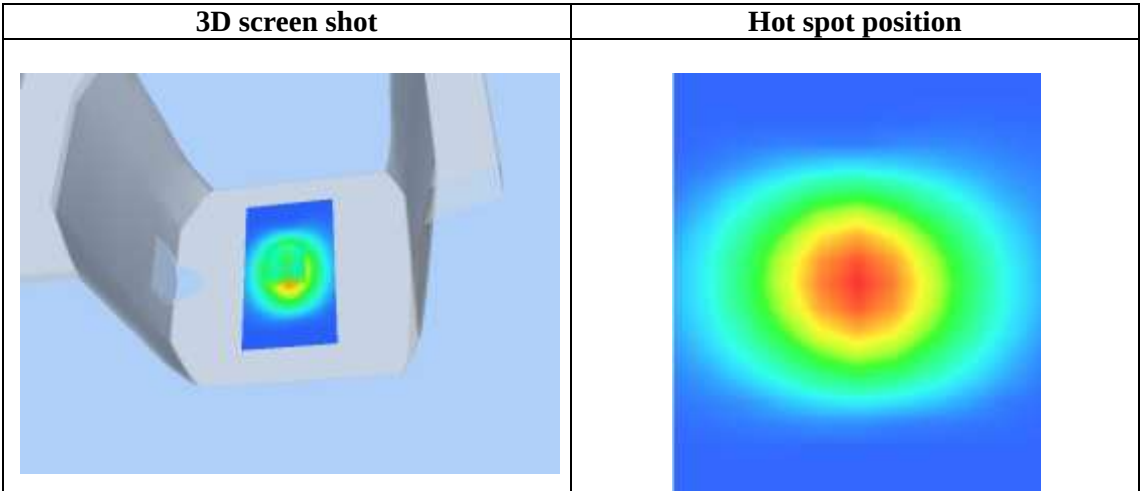
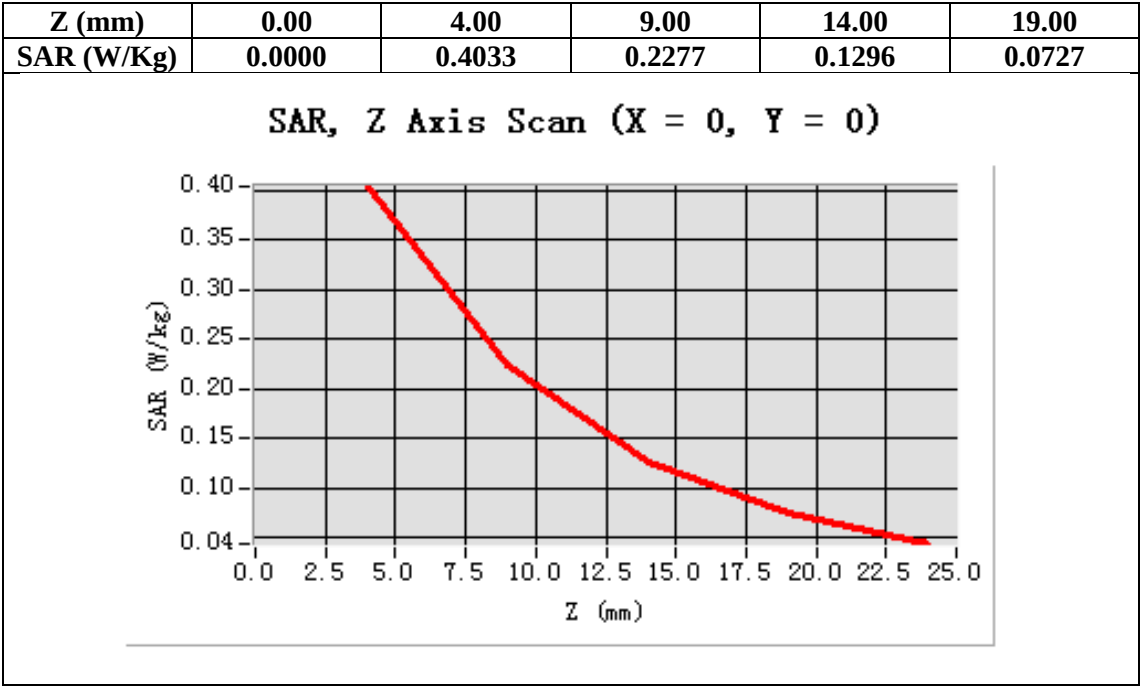
Configuration/System Check PCS1700 Head/Area Scan: Measurement grid: dx=8mm,dy=8mm

Configuration/System Check PCS1700 Head/Zoom Scan: Measurement grid: dx=8mm, dy=8mm, dz=5mm



Maximum location: X=0.00, Y=0.00

SAR 10g (W/Kg)	0.207213
SAR 1g (W/Kg)	0.388417



Test Laboratory: AGC Lab
System Check Body 1700MHz
DUT: Dipole 1700 MHz; Type: SID 1800

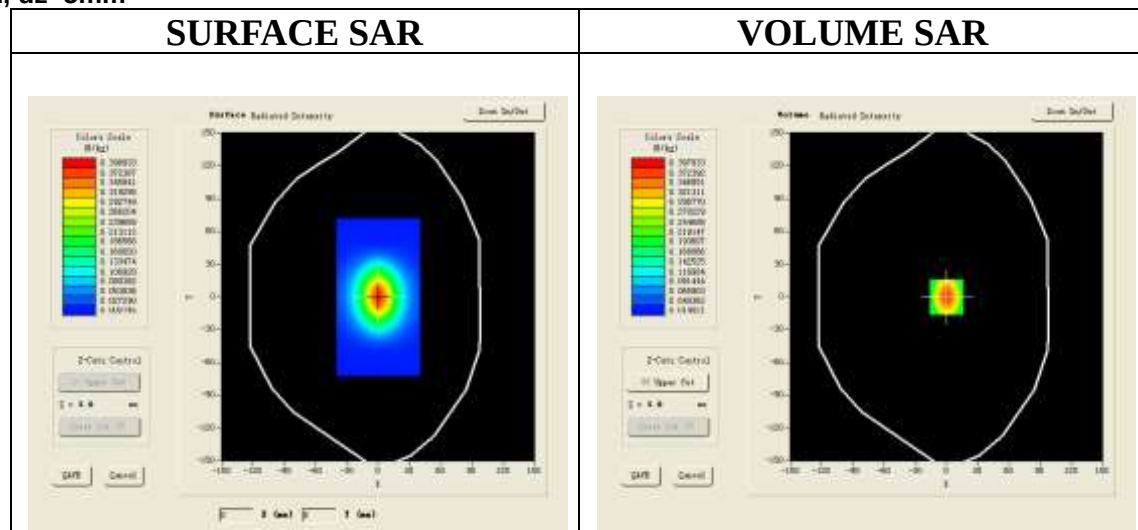
Date: July 10,2014

Communication System: CW; Communication System Band: D1700 (1700.0 MHz); Duty Cycle:1:1; Conv.F=4.71
Frequency: 1700 MHz; Medium parameters used: $f = 1732.6\text{MHz}$; $\sigma=1.50\text{mho/m}$; $\epsilon_r=53.47$; $\rho= 1000 \text{ kg/m}^3$;
Phantom section: Flat Section; Input Power=10dBm
Ambient temperature ($^{\circ}\text{C}$): 21, Liquid temperature ($^{\circ}\text{C}$): 21

SATIMO Configuration:

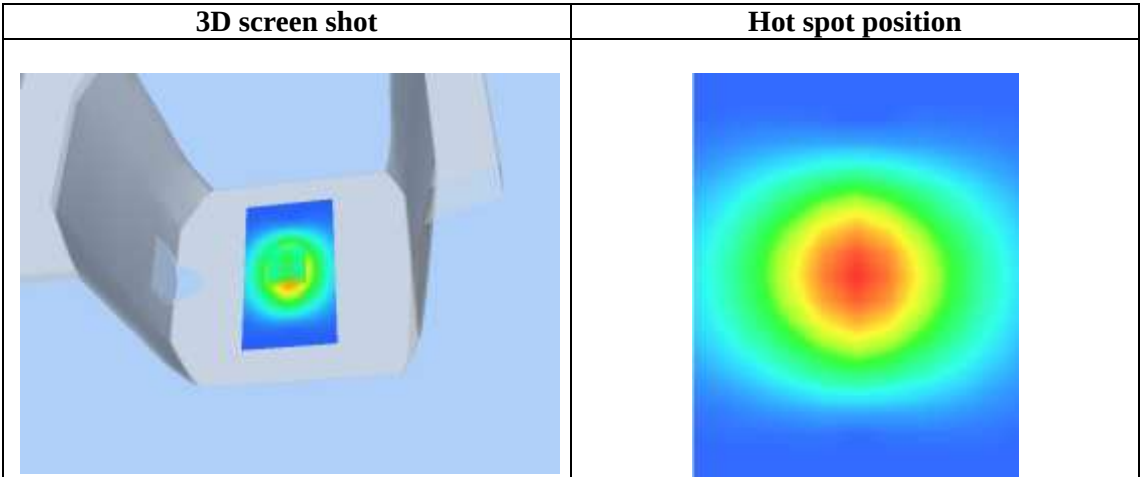
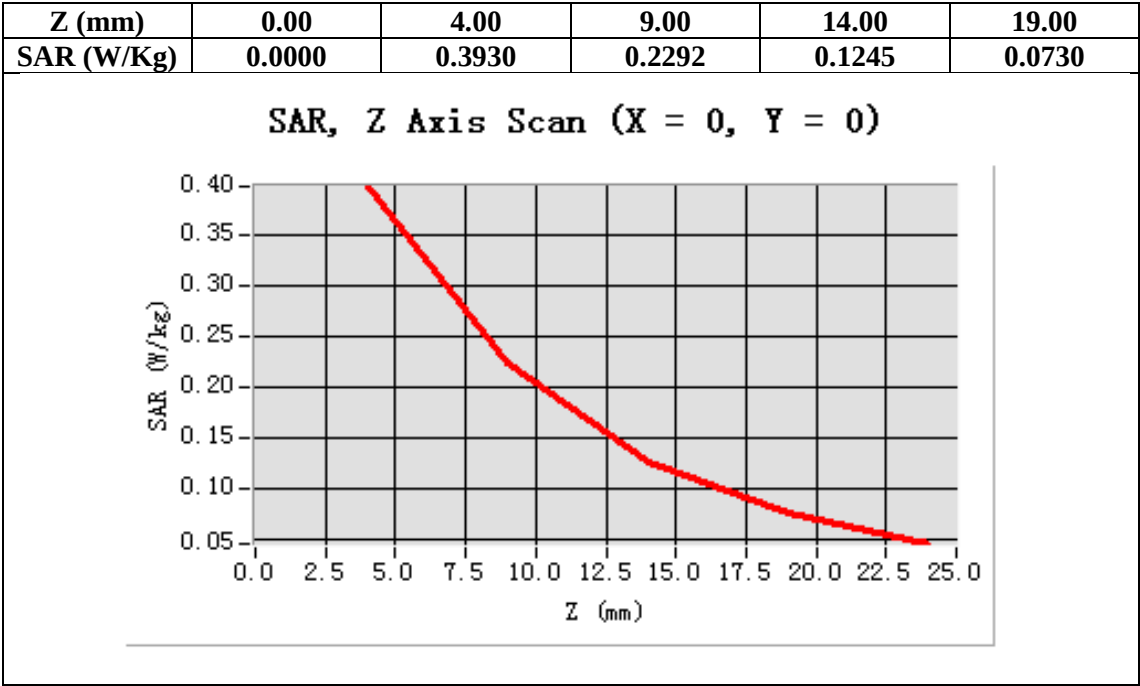
- Probe: SSE5; Calibrated: 01/12/2014; Serial No.:SN 22/12 EP159
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: Flat Phantom; Type: Elliptical Phantom
- Measurement SW: OpenSAR V4_02_01

Configuration/System Check PCS 1700 Body/Area Scan: Measurement grid: $dx=8\text{mm}, dy=8\text{mm}$
Configuration/System Check PCS 1700 Body/Zoom Scan: Measurement grid: $dx=8\text{mm}, dy=8\text{mm}, dz=5\text{mm}$



Maximum location: X=0.00, Y=0.00

SAR 10g (W/Kg)	0.209020
SAR 1g (W/Kg)	0.387216



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

Date: July 10,2014

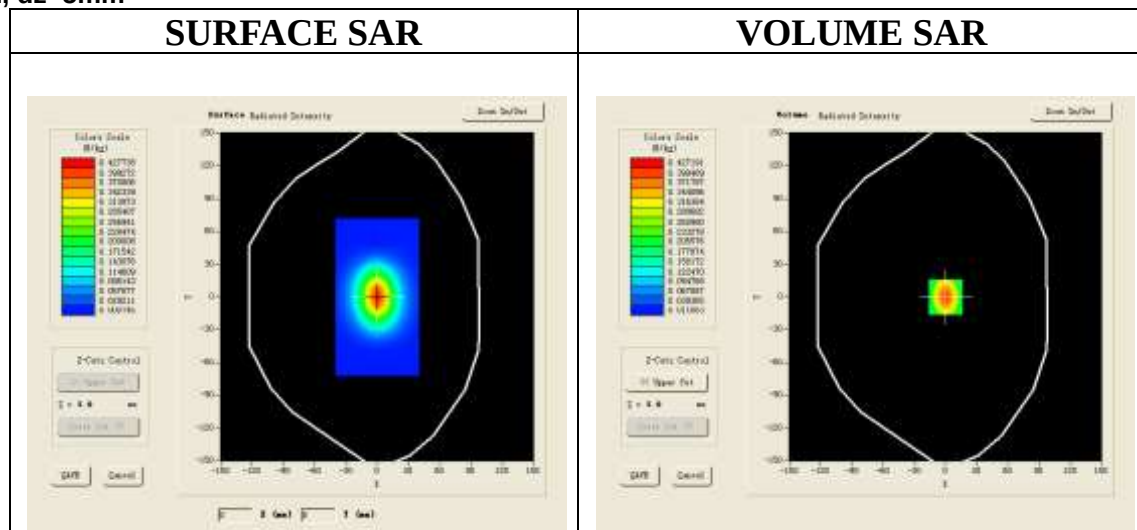
Communication System: CW; Communication System Band: D1900 (1900.0 MHz); Duty Cycle:1:1; Conv.F=4.51
Frequency: 1900 MHz; Medium parameters used: $f = 1900$ MHz; $\sigma = 1.39$ mho/m; $\epsilon_r = 39.62$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section; Input Power=10dBm
Ambient temperature (°C): 21, Liquid temperature (°C): 21

SATIMO Configuration:

- Probe: SSE5; Calibrated: 01/12/2014; Serial No.:SN 22/12 EP159
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: Flat Phantom; Type: Elliptical Phantom
- Measurement SW: OpenSAR V4_02_01

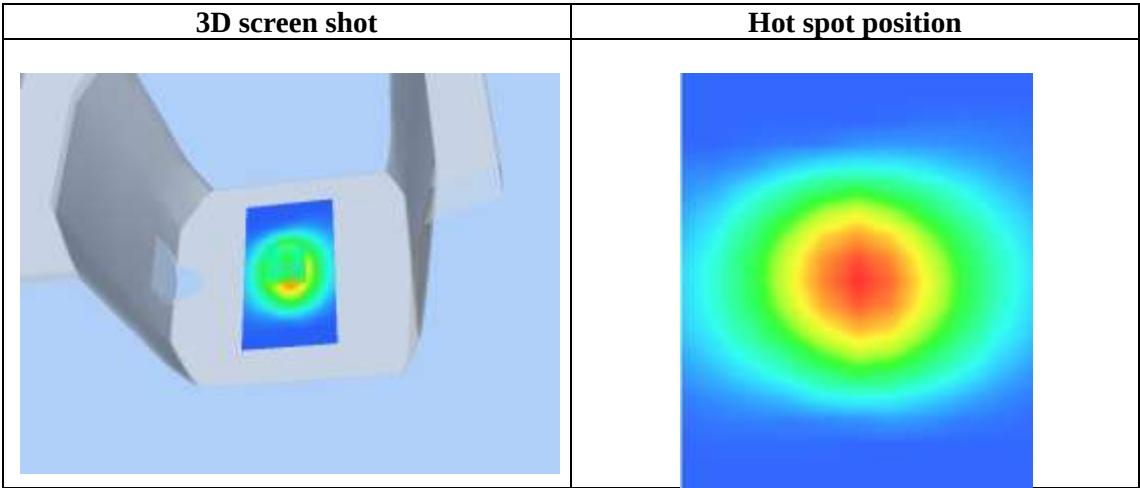
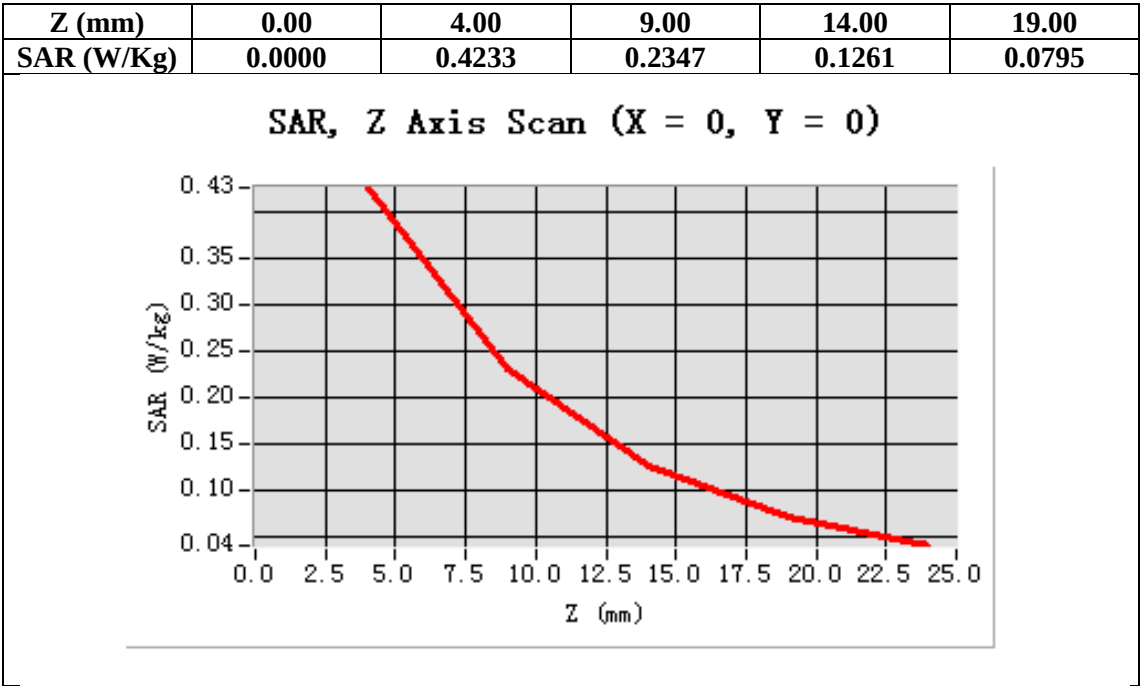
Configuration/System Check PCS1900 Head/Area Scan: Measurement grid: dx=8mm,dy=8mm

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)	0.204077
SAR 1g (W/Kg)	0.385210



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

Date: July 10,2014

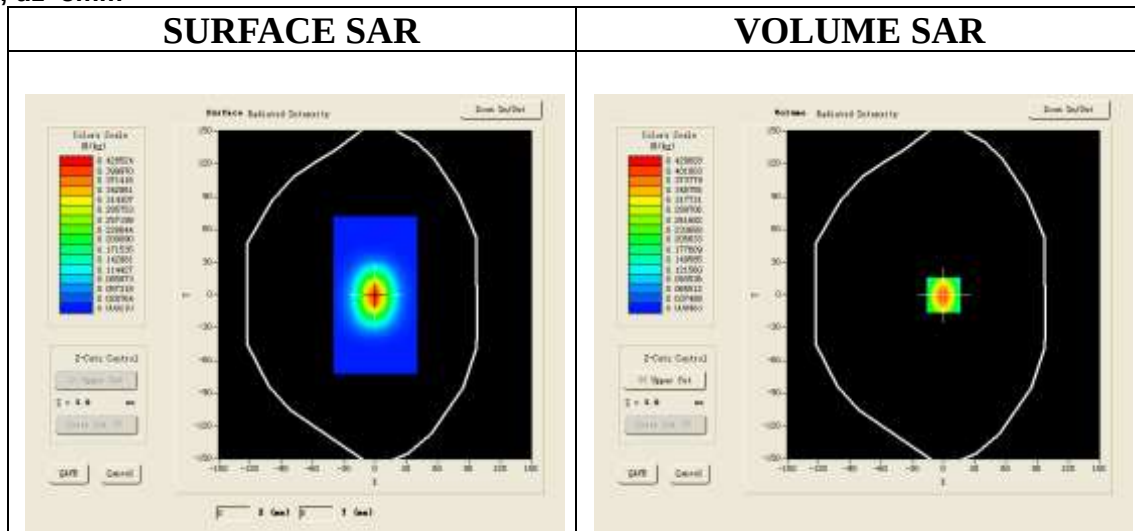
Communication System: CW; Communication System Band: D1900 (1900.0 MHz); Duty Cycle:1:1; Conv.F=4.45
Frequency: 1900 MHz; Medium parameters used: $f = 1900$ MHz; $\sigma=1.48$ mho/m; $\epsilon_r=52.96$; $\rho= 1000$ kg/m³ ;
Phantom section: Flat Section; Input Power=10dBm
Ambient temperature (°C): 21, Liquid temperature (°C): 21

SATIMO Configuration:

- Probe: SSE5; Calibrated: 01/12/2014; Serial No.:SN 22/12 EP159
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: Flat Phantom; Type: Elliptical Phantom
- Measurement SW: OpenSAR V4_02_01

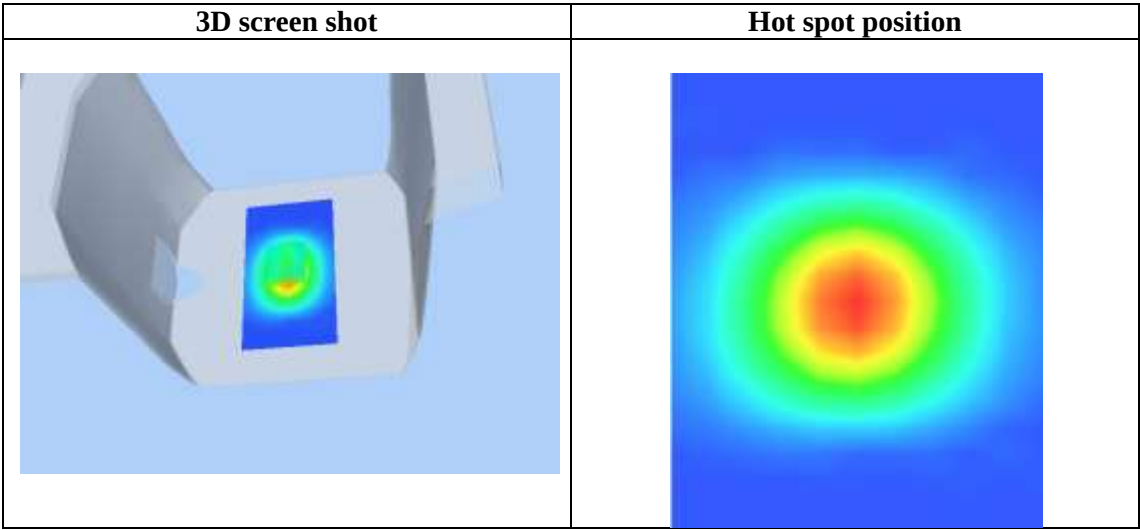
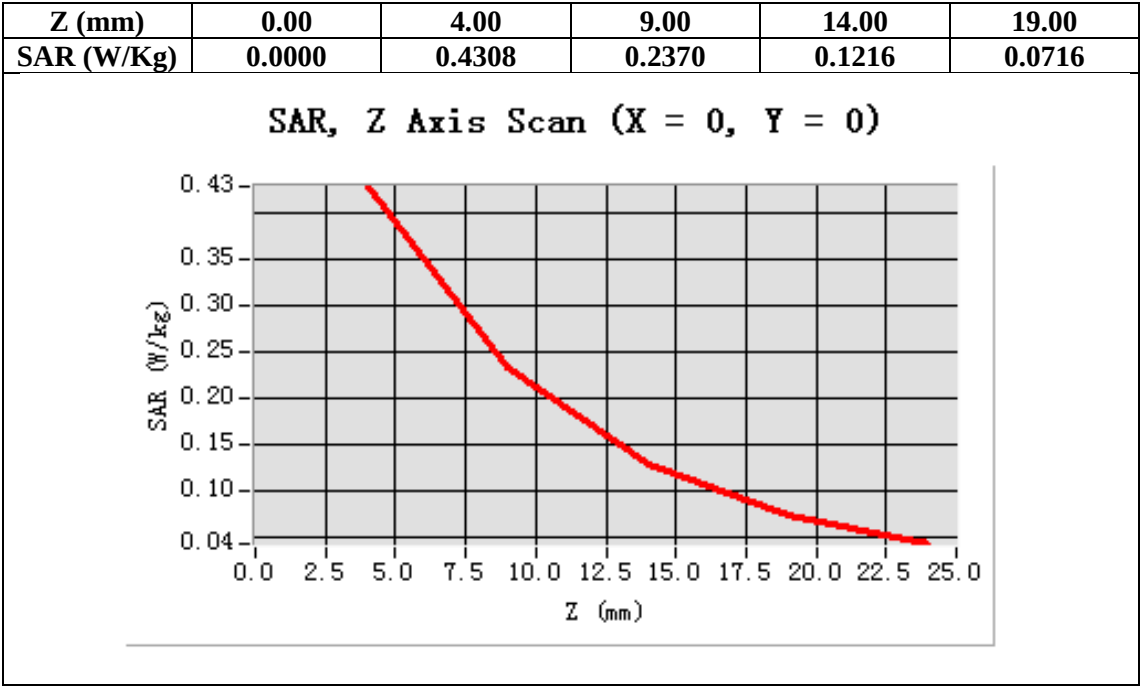
Configuration/System Check PCS1900 Body/Area Scan: Measurement grid: dx=8mm,dy=8mm

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



Maximum location: X=0.00, Y=0.00

SAR 10g (W/Kg)	0.201085
SAR 1g (W/Kg)	0.402239



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

Date: July 10,2014

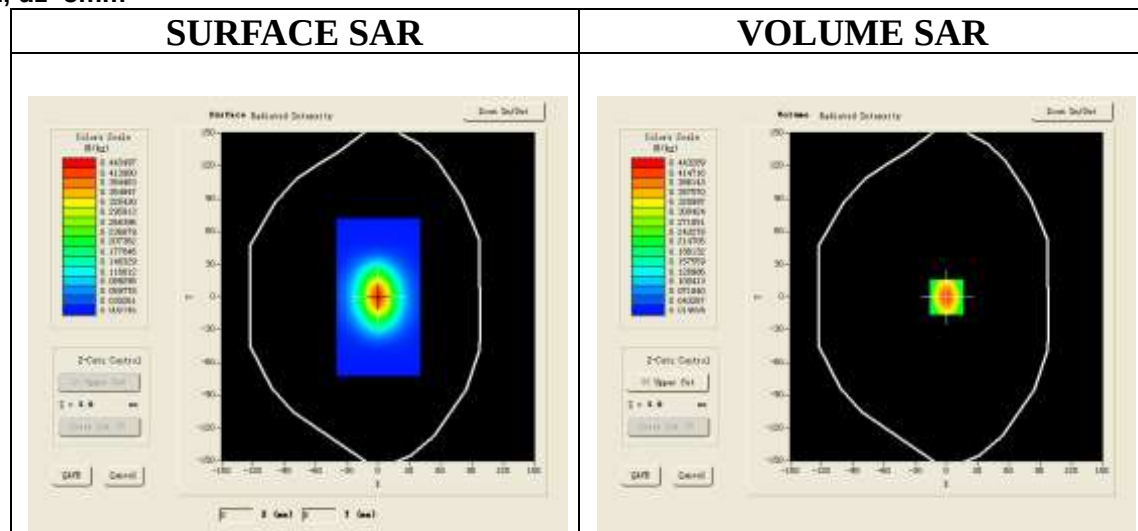
Communication System: CW; Communication System Band: D2450 (2450.0 MHz); Duty Cycle: 1:1; Conv.F=4.42
Frequency: 2450 MHz; Medium parameters used: $f = 2450$ MHz; $\sigma = 1.82$ mho/m; $\epsilon_r = 39.24$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section; Input Power=10dBm
Ambient temperature (°C): 21, Liquid temperature (°C): 21

SATIMO Configuration:

- Probe: SSE5; Calibrated: 01/12/2014; Serial No.:SN 22/12 EP159
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: Flat Phantom; Type: Elliptical Phantom
- Measurement SW: OpenSAR V4_02_01

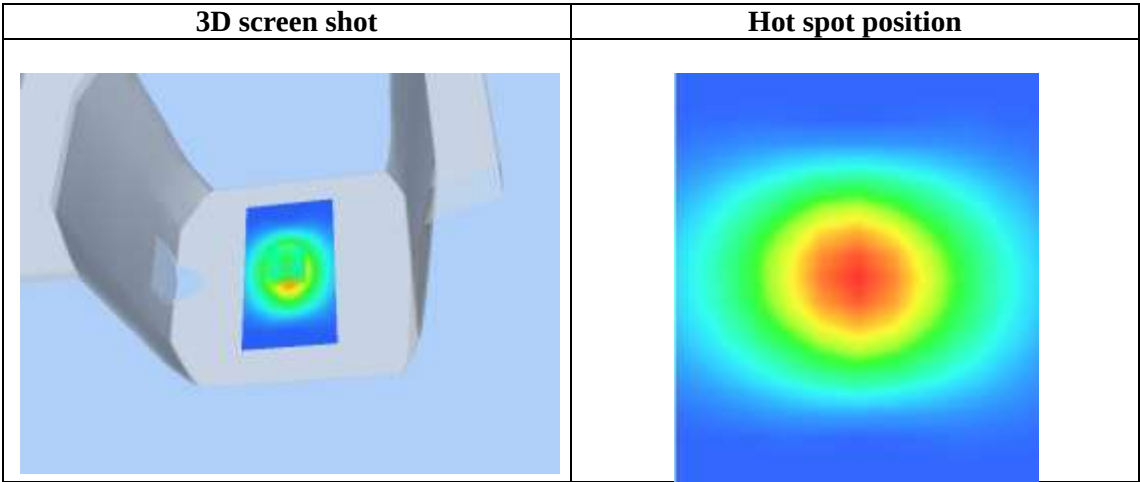
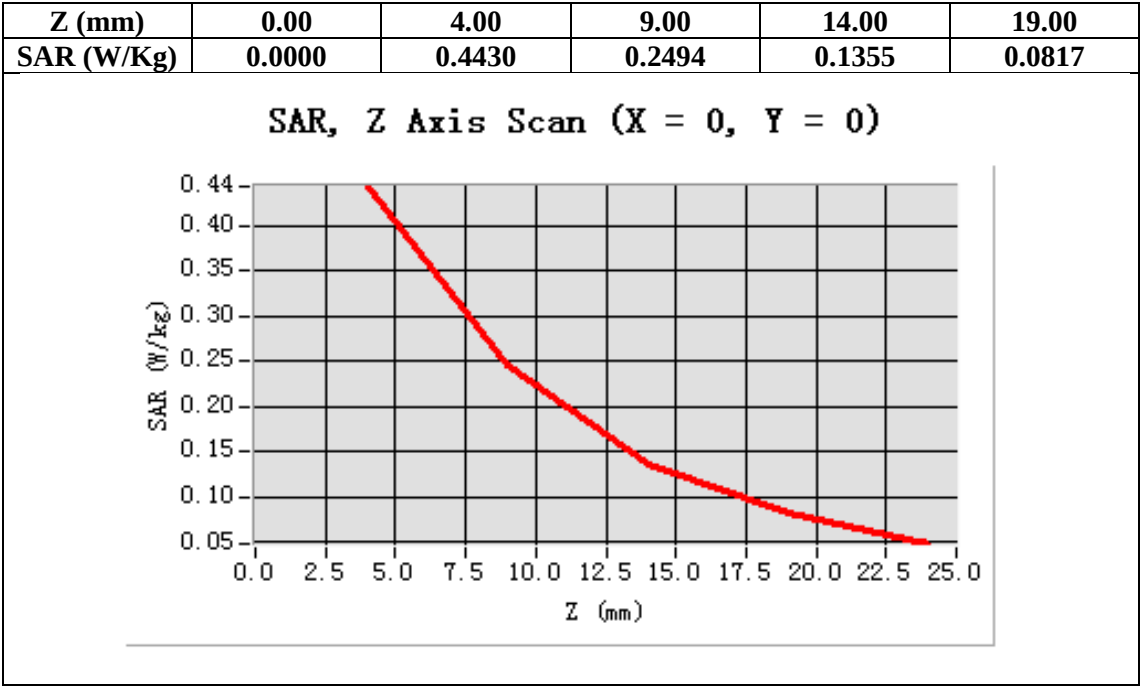
Configuration/System Check 2450 MHz Head/Area Scan: Measurement grid: dx=8mm,dy=8mm

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)	0.239814
SAR 1g (W/Kg)	0.498176



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

Date: July 10,2014

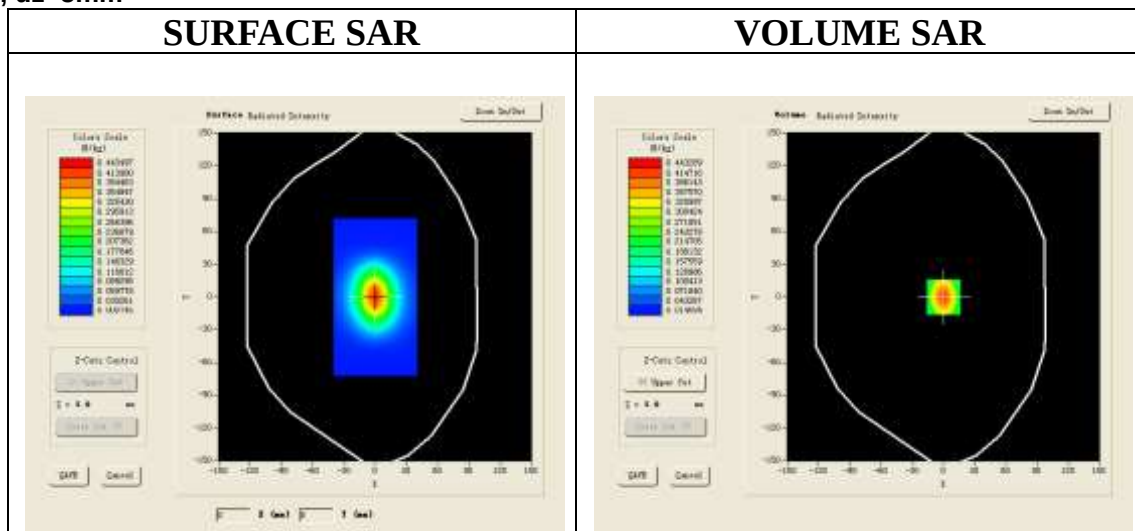
Communication System: CW; Communication System Band: D2450 (2450.0 MHz); Duty Cycle: 1:1; Conv.F=4.31
Frequency: 2450 MHz; Medium parameters used: $f = 2450$ MHz; $\sigma = 1.93$ mho/m; $\epsilon_r = 52.36$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section; Input Power=10dBm
Ambient temperature (°C): 21, Liquid temperature (°C): 21

SATIMO Configuration:

- Probe: SSE5; Calibrated: 01/12/2014; Serial No.:SN 22/12 EP159
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: Flat Phantom; Type: Elliptical Phantom
- Measurement SW: OpenSAR V4_02_01

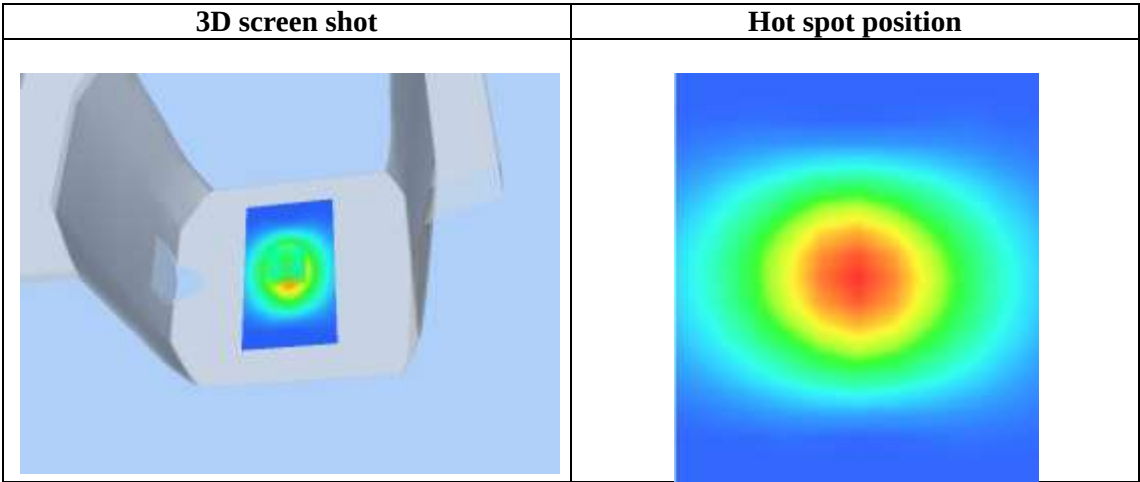
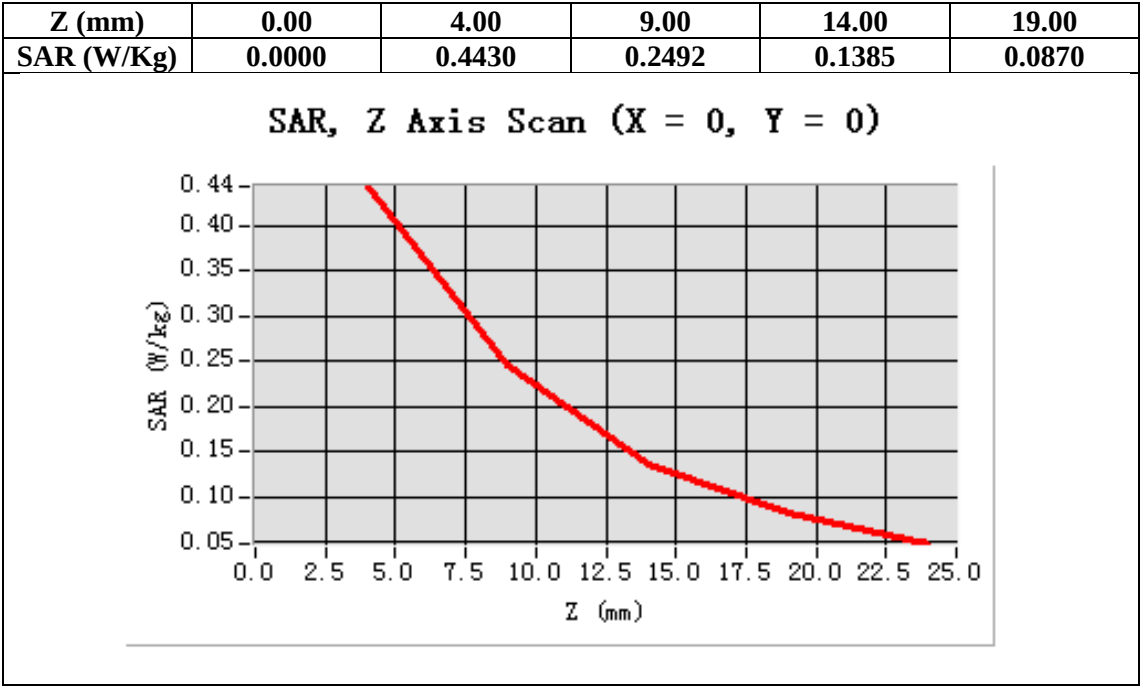
Configuration/System Check 2450 MHz Body/Area Scan: Measurement grid: dx=8mm,dy=8mm

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



Maximum location: X=0.00, Y=0.00

SAR 10g (W/Kg)	0.241020
SAR 1g (W/Kg)	0.500673



APPENDIX B. SAR MEASUREMENT DATA

Test Laboratory: AGC Lab

Date: July 10,2014

GSM 835 Mid-Touch-Left <SIM 1>

DUT: Mobile Phone; Type: QUE 5.5

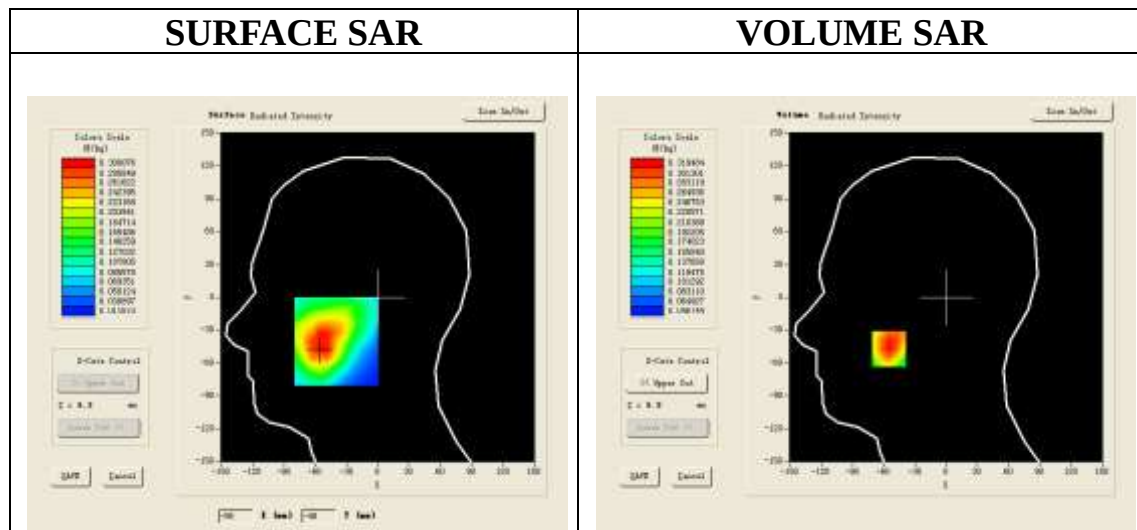
Communication System: Generic GSM; Communication System Band: GSM 835; Duty Cycle: 1:8.3; Conv.F=5.27
Frequency: 836.6 MHz; Medium parameters used: $f = 835$ MHz; $\sigma = 0.89$ mho/m; $\epsilon_r = 41.01$; $\rho = 1000$ kg/m³ ;
Phantom section: Left Section
Ambient temperature (°C): 21.0, Liquid temperature (°C): 21.0

SATIMO Configuration:

- Probe: SSE5; Calibrated: 01/12/2014; Serial No.:SN 22/12 EP159
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: Flat Phantom; Type: Elliptical Phantom
- Measurement SW: OpenSAR V4_02_01

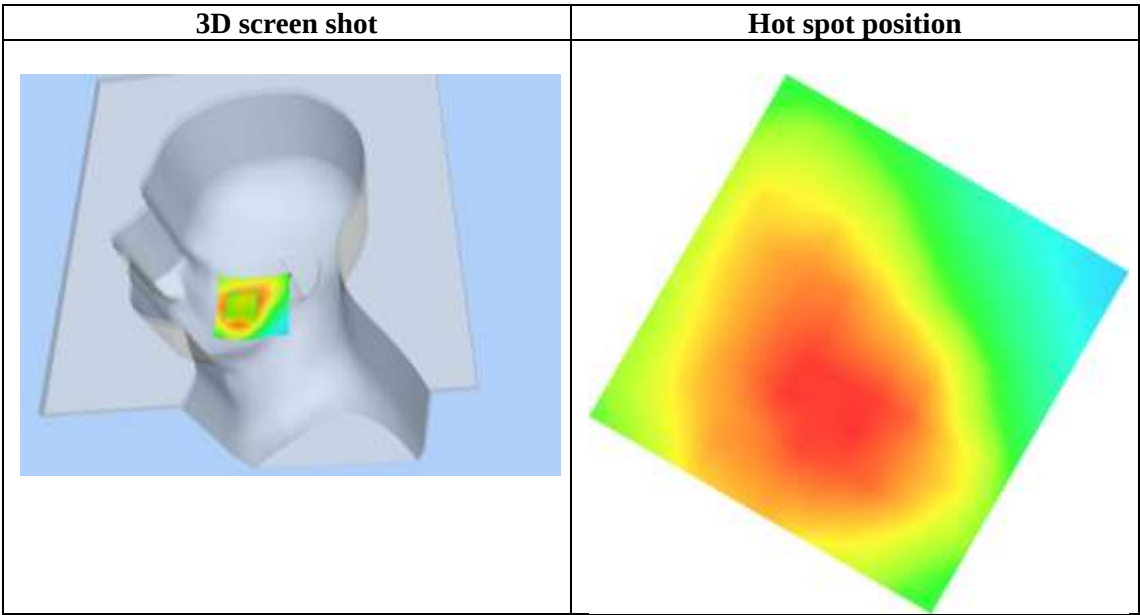
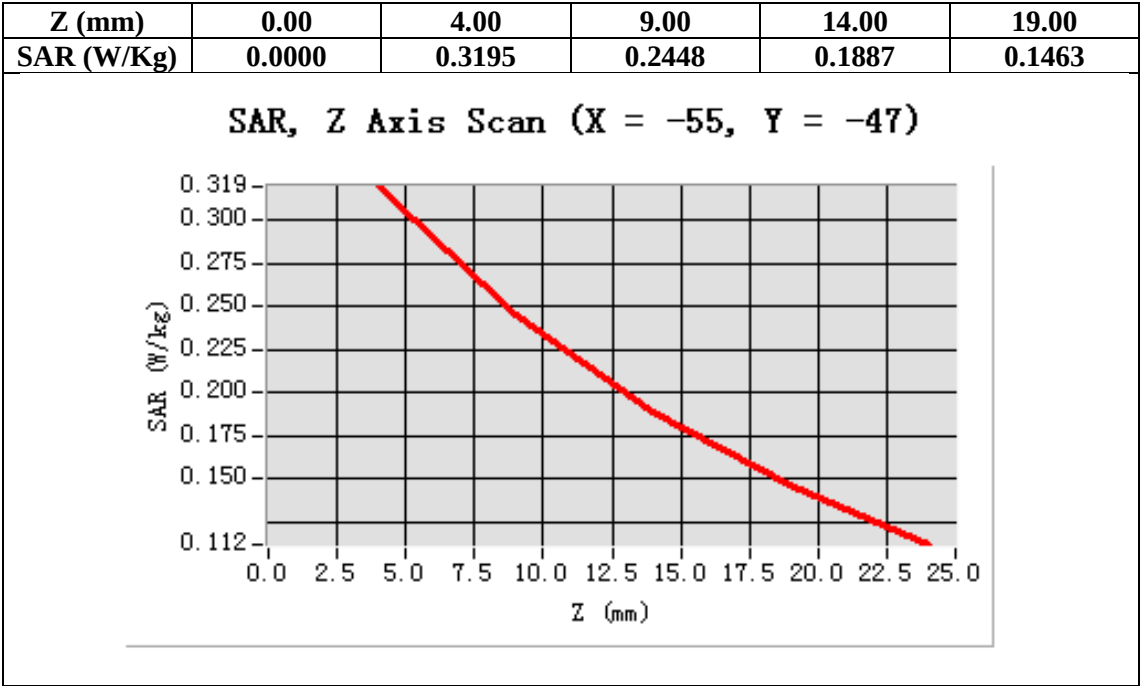
Configuration/GSM 835 Mid-Touch-Left/Area Scan (6x8x1): Measurement grid: dx=8mm, dy=8mm
Configuration/GSM 835 Mid-Touch-Left/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

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=-55.00, Y=-47.00

SAR 10g (W/Kg)	0.224563
SAR 1g (W/Kg)	0.301274



Test Laboratory: AGC Lab
GSM 835 Mid-Tilt-Left <SIM 1>
DUT: Mobile Phone; Type: QUE 5.5

Date: July 10,2014

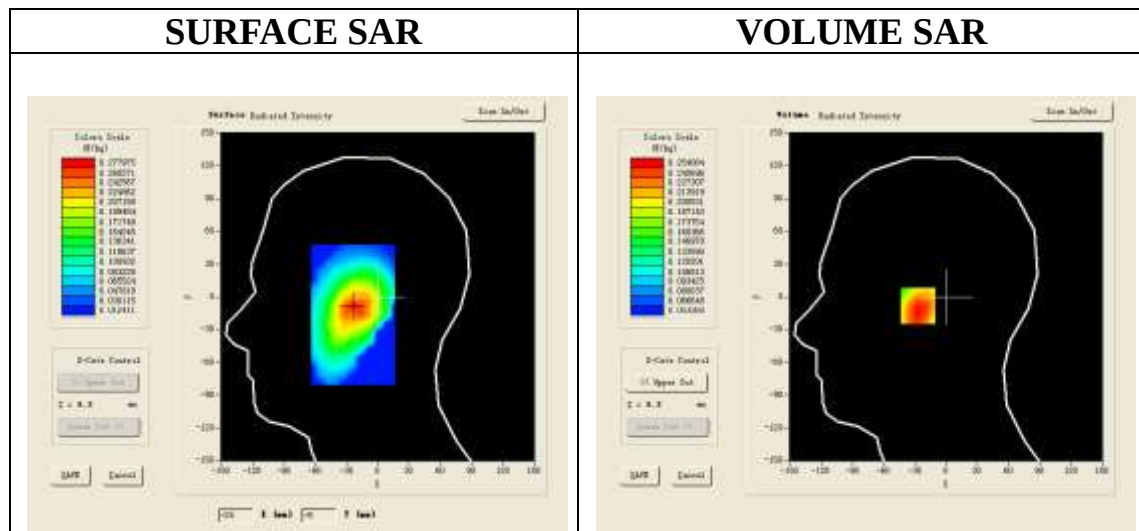
Communication System: Generic GSM; Communication System Band: GSM 835; Duty Cycle: 1:8.3; Conv.F=5.27;
Frequency: 836.6 MHz; Medium parameters used: $f = 835$ MHz; $\sigma = 0.89$ mho/m; $\epsilon_r = 41.01$; $\rho = 1000$ kg/m³ ;
Phantom section: Left Section
Ambient temperature (°C): 21.0, Liquid temperature(°C): 21.0

SATIMO Configuration:

- Probe: SSE5; Calibrated: 01/12/2014; Serial No.:SN 22/12 EP159
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: Flat Phantom; Type: Elliptical Phantom
- Measurement SW: OpenSAR V4_02_01

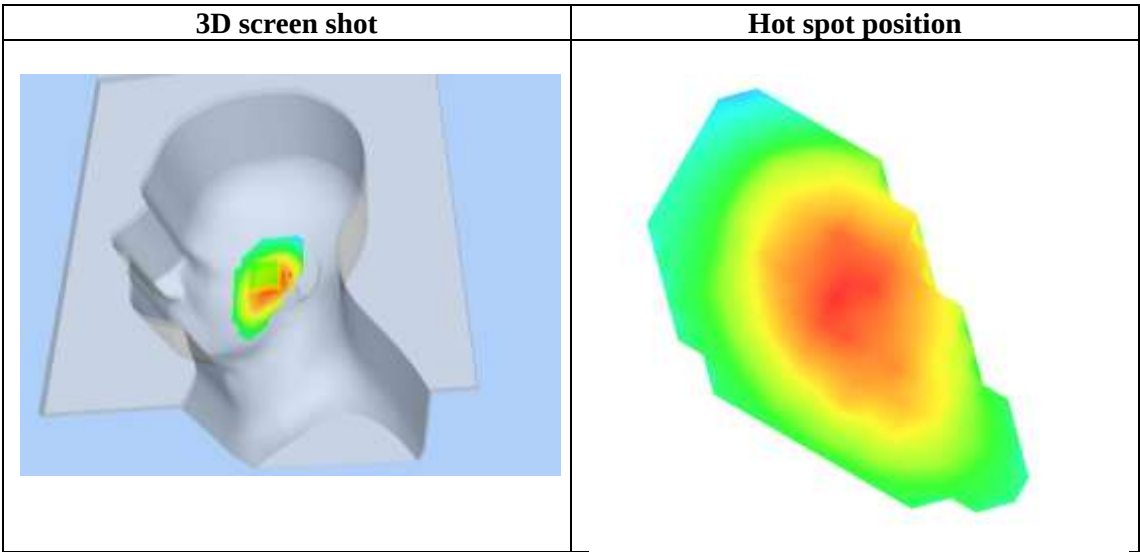
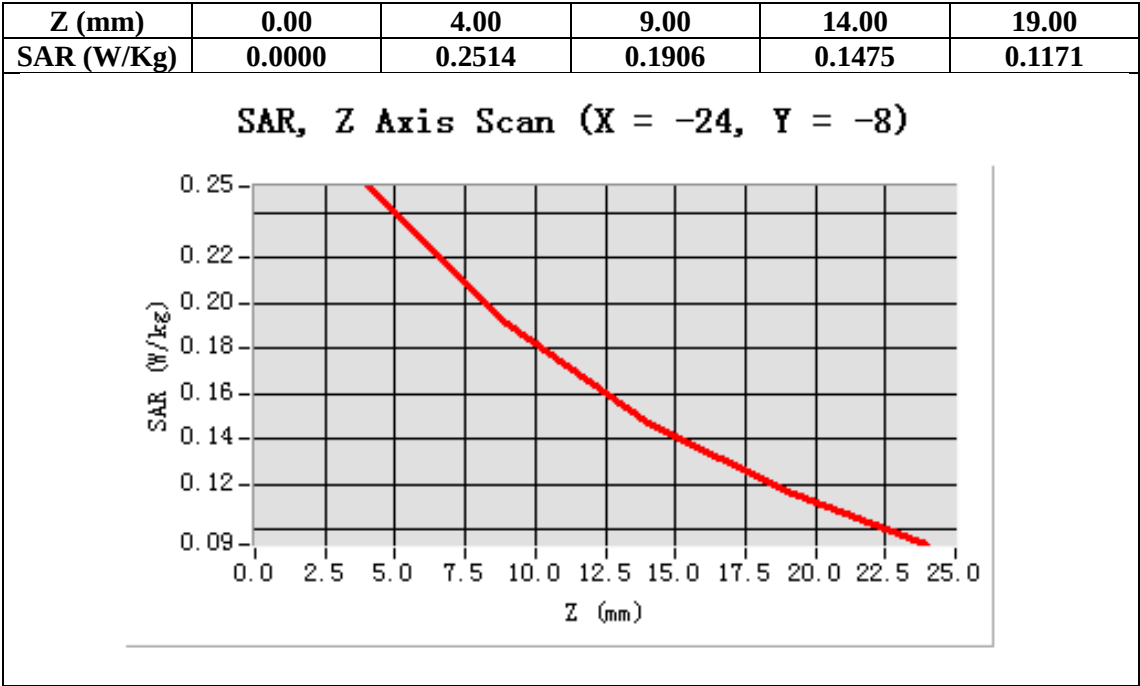
Configuration/GSM 835 Mid-Tilt-Left/Area Scan (6x8x1): Measurement grid: dx=8mm, dy=8mm
Configuration/GSM 835 Mid-Tilt-Left/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm,dz=5mm;

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=-24.00, Y=-8.00

SAR 10g (W/Kg)	0.171380
SAR 1g (W/Kg)	0.246425



Test Laboratory: AGC Lab
GSM 835 Mid-Touch-Right <SIM 1>
DUT: Mobile Phone; Type: QUE 5.5

Date: July 10,2014

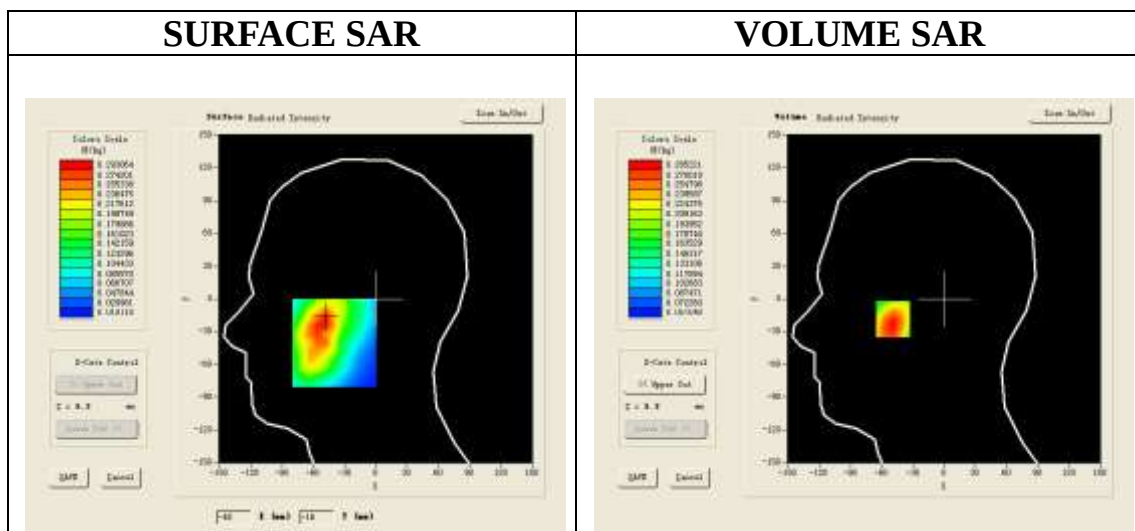
Communication System: Generic GSM; Communication System Band: GSM 835; Duty Cycle: 1:8.3; Conv.F=5.27;
Frequency: 836.6 MHz; Medium parameters used: $f = 835$ MHz; $\sigma = 0.89$ mho/m; $\epsilon_r = 41.01$; $\rho = 1000$ kg/m³ ;
Phantom section: Right Section
Ambient temperature (°C): 21.0, Liquid temperature (°C): 21.0

SATIMO Configuration:

- Probe: SSE5; Calibrated: 01/12/2014; Serial No.:SN 22/12 EP159
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: Flat Phantom; Type: Elliptical Phantom
- Measurement SW: OpenSAR V4_02_01

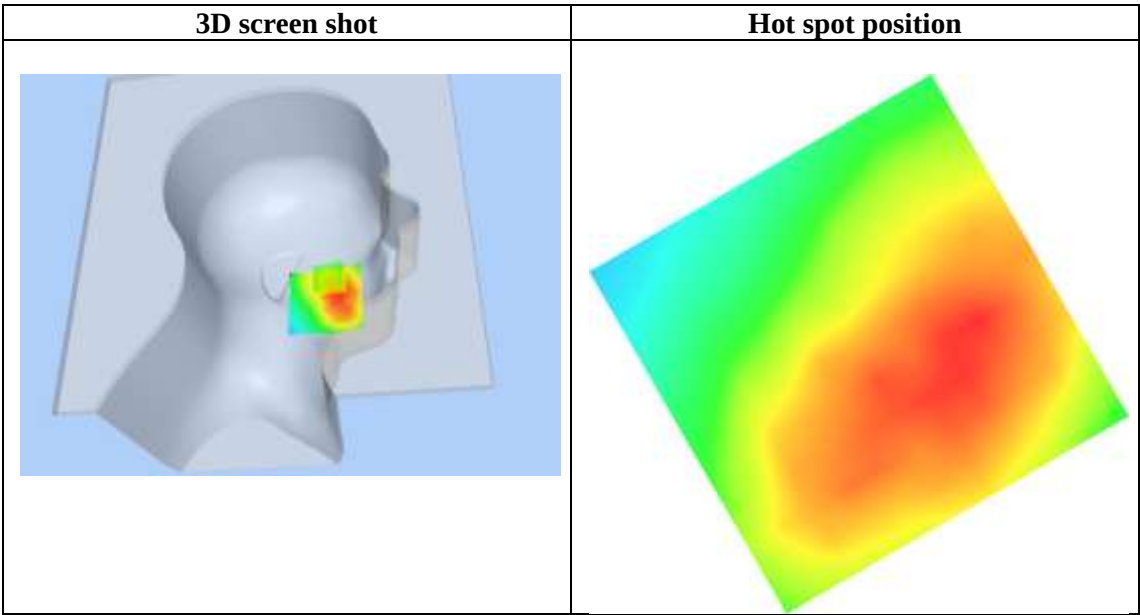
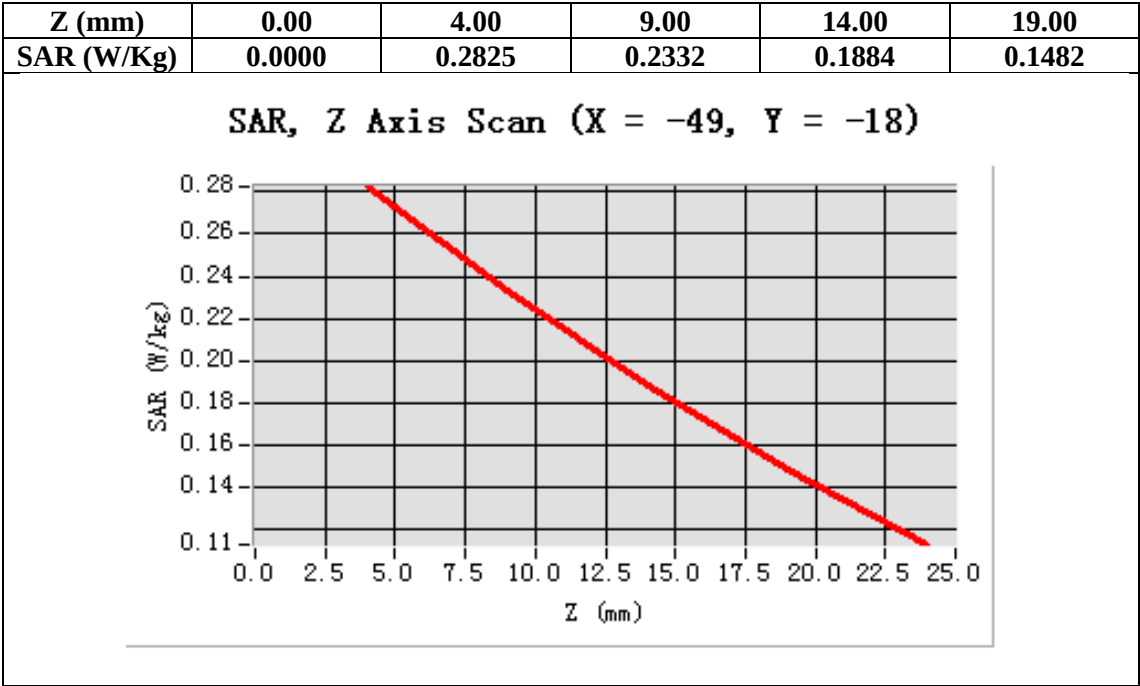
Configuration/GSM 835 Mid-Touch-Right/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/GSM 835 Mid-Touch-Right/Zoom Scan: Measurement grid: dx=8mm,
dy=8mm, dz=5mm;

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=-49.00, Y=-18.00

SAR 10g (W/Kg)	0.203126
SAR 1g (W/Kg)	0.274075



Test Laboratory: AGC Lab
GSM 835 Mid-Tilt-Right <SIM 1>
DUT: Mobile Phone; Type: QUE 5.5

Date: July 10,2014

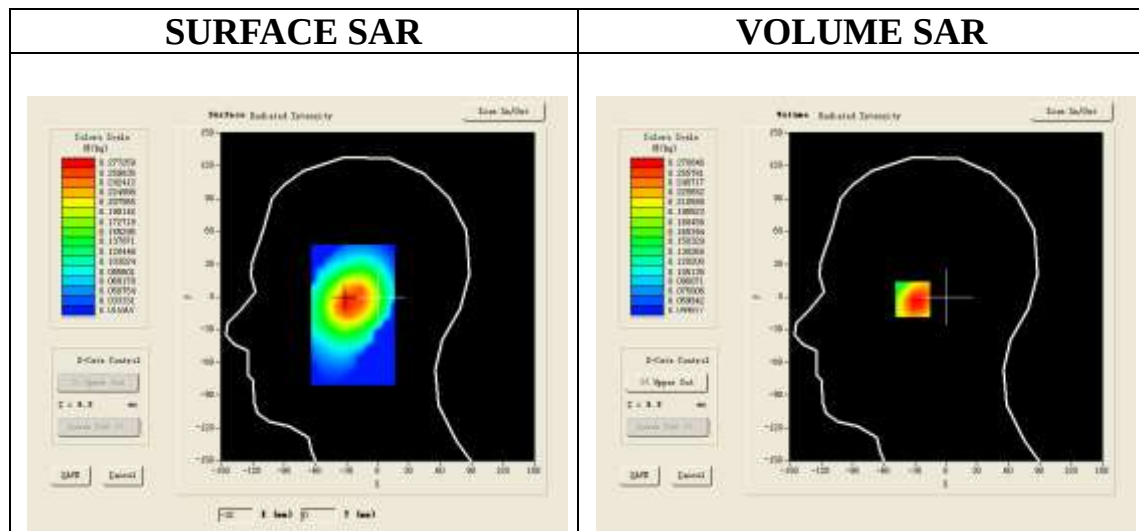
Communication System: Generic GSM; Communication System Band: GSM 835; Duty Cycle: 1:8.3; Conv.F=5.27;
Frequency: 836.6 MHz; Medium parameters used: $f = 835$ MHz; $\sigma = 0.89$ mho/m; $\epsilon_r = 41.01$; $\rho = 1000$ kg/m³ ;
Phantom section: Right Section
Ambient temperature (°C): 21.0, Liquid temperature (°C): 21.0

SATIMO Configuration:

- Probe: SSE5; Calibrated: 01/12/2014; Serial No.:SN 22/12 EP159
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: Flat Phantom; Type: Elliptical Phantom
- Measurement SW: OpenSAR V4_02_01

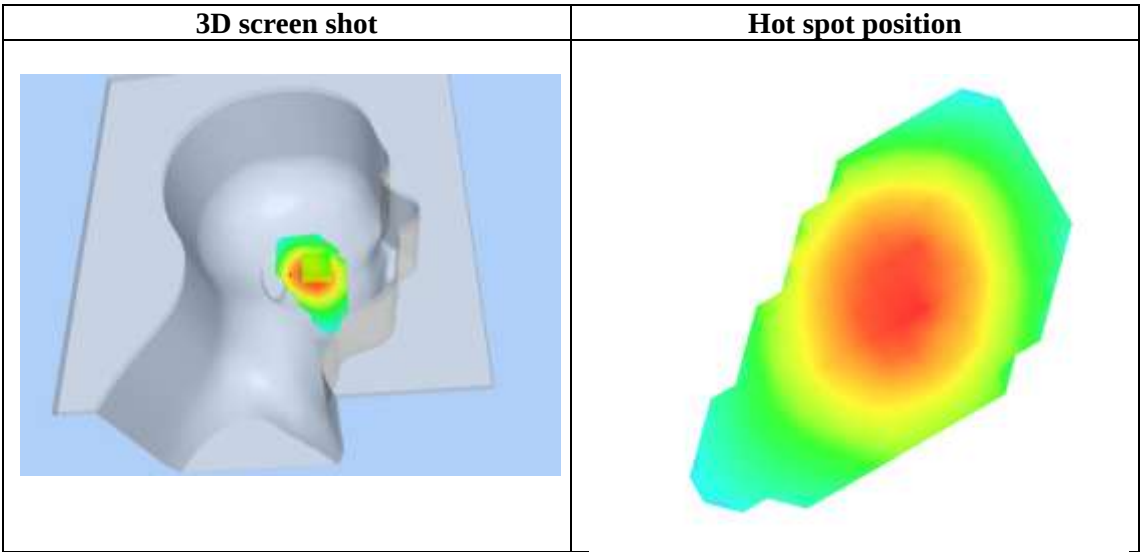
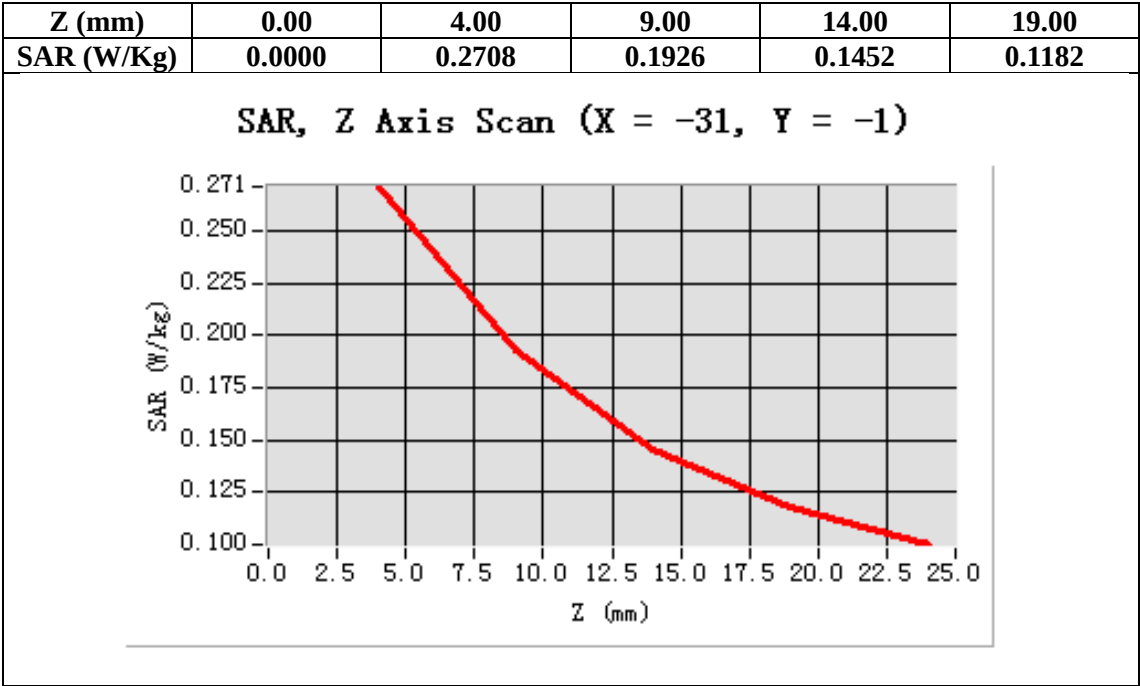
Configuration/GSM 835 Mid-Tilt-Right/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/GSM 835 Mid-Tilt-Right/Zoom Scan: Measurement grid: dx=8mm,
dy=8mm, dz=5mm;

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=-31.00, Y=-1.00

SAR 10g (W/Kg)	0.184312
SAR 1g (W/Kg)	0.262750



Test Laboratory: AGC Lab
GSM 835 Mid-Touch-Left <SIM 2>
DUT: Mobile Phone; Type: QUE 5.5

Date: July 10,2014

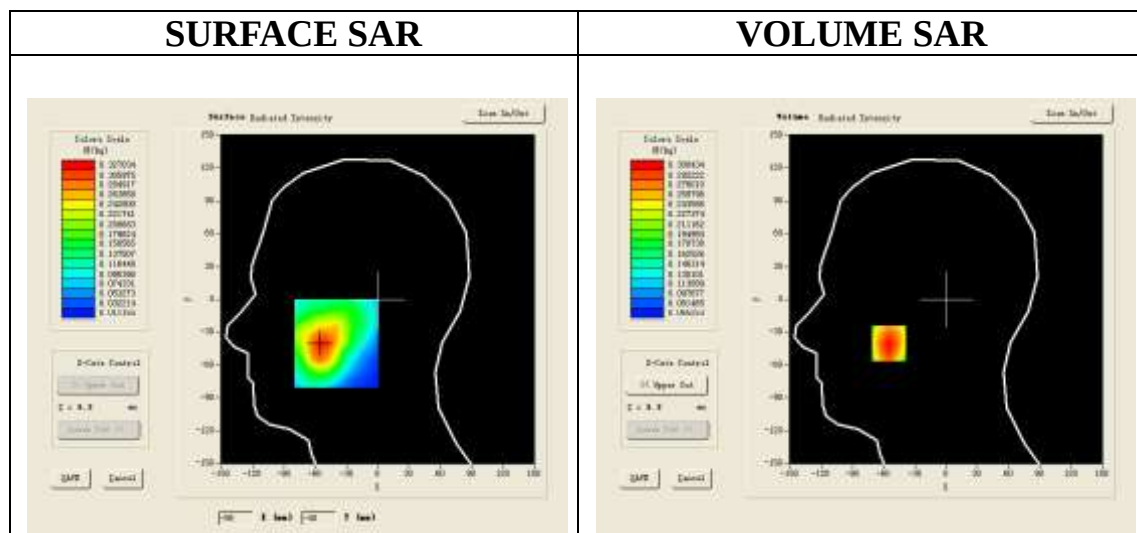
Communication System: Generic GSM; Communication System Band: GSM 835; Duty Cycle: 1:8.3; Conv.F=5.27
Frequency: 836.6 MHz; Medium parameters used: $f = 835$ MHz; $\sigma = 0.89$ mho/m; $\epsilon_r = 41.01$; $\rho = 1000$ kg/m³ ;
Phantom section: Left Section
Ambient temperature (°C): 21.0, Liquid temperature (°C): 21.0

SATIMO Configuration:

- Probe: SSE5; Calibrated: 01/12/2014; Serial No.:SN 22/12 EP159
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: Flat Phantom; Type: Elliptical Phantom
- Measurement SW: OpenSAR V4_02_01

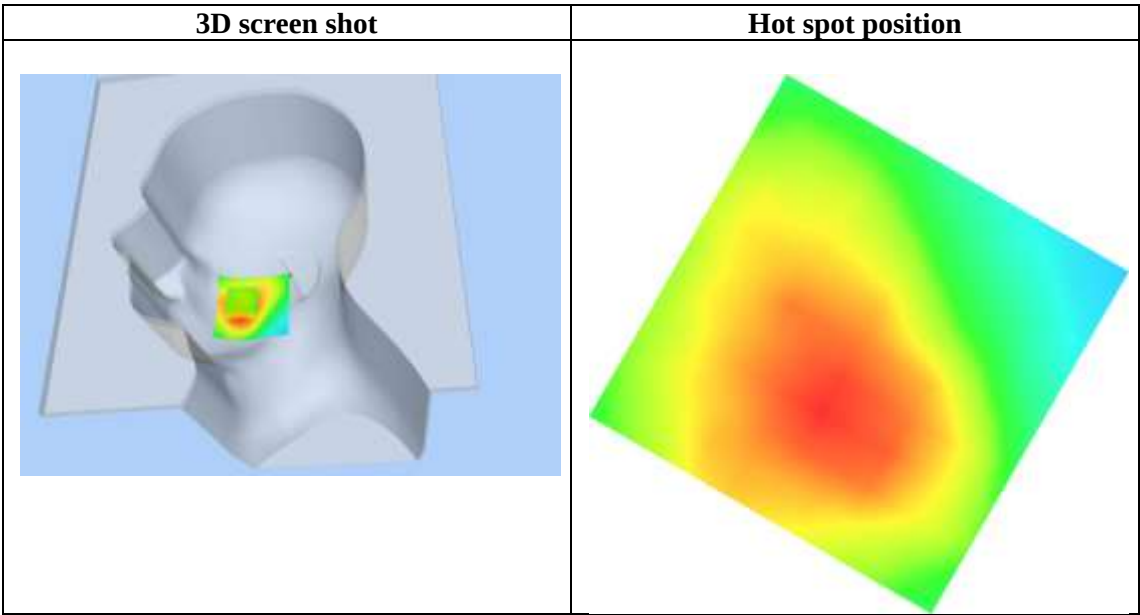
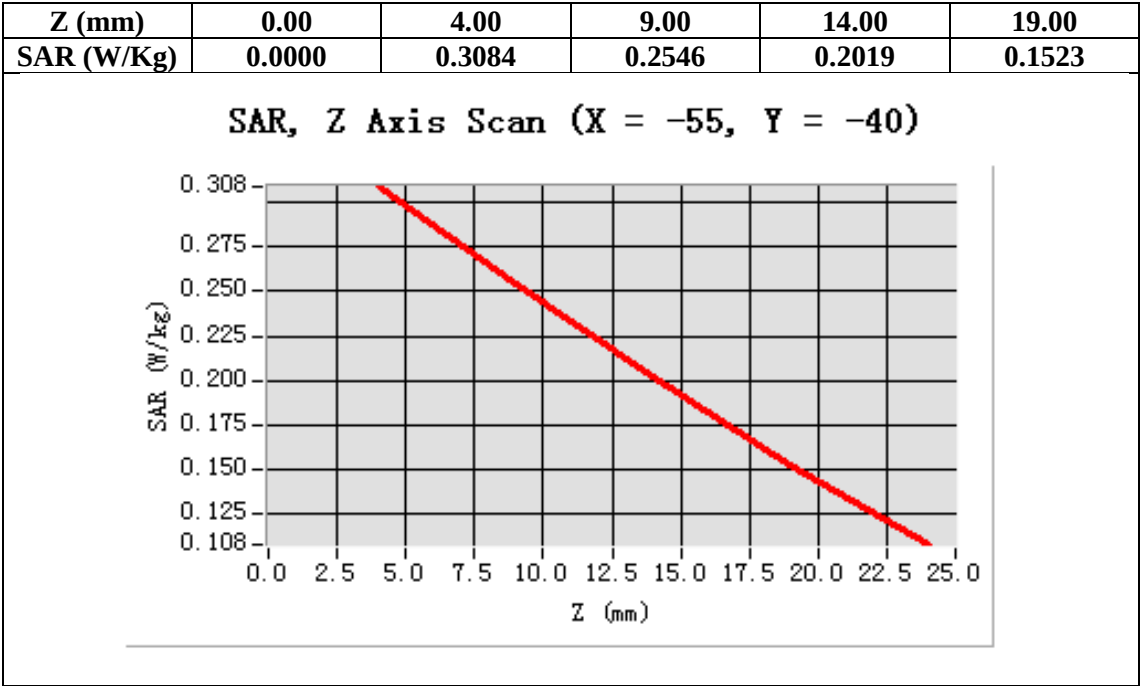
Configuration/GSM 835 Mid-Touch-Left/Area Scan (6x8x1): Measurement grid: dx=8mm, dy=8mm
Configuration/GSM 835 Mid-Touch-Left/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

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=-55.00, Y=-40.00

SAR 10g (W/Kg)	0.225214
SAR 1g (W/Kg)	0.296321



Test Laboratory: AGC Lab
GSM 835 Mid- Body- Back <SIM 1>
DUT: Mobile Phone; Type: QUE 5.5

Date: July 10,2014

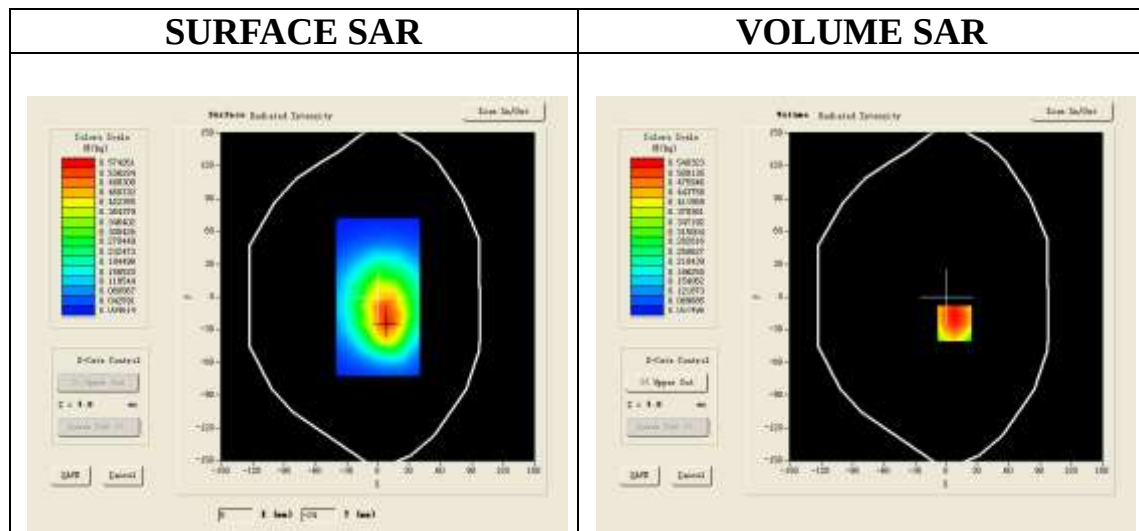
Communication System: Generic GSM; Communication System Band: GSM 835; Duty Cycle: 1:8.3; Conv.F=5.48;
Frequency: 836.6 MHz; Medium parameters used: $f = 835$ MHz; $\sigma = 0.96$ mho/m; $\epsilon_r = 55.19$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section
Ambient temperature (°C): 21.0, Liquid temperature (°C): 21.0

SATIMO Configuration:

- Probe: SSE5; Calibrated: 01/12/2014; Serial No.:SN 22/12 EP159
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: Flat Phantom; Type: Elliptical Phantom
- Measurement SW: OpenSAR V4_02_01

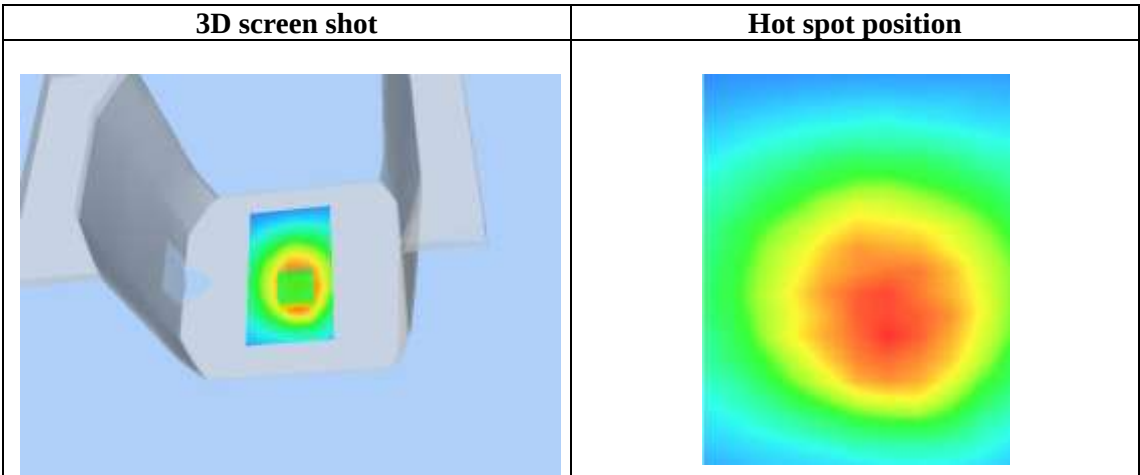
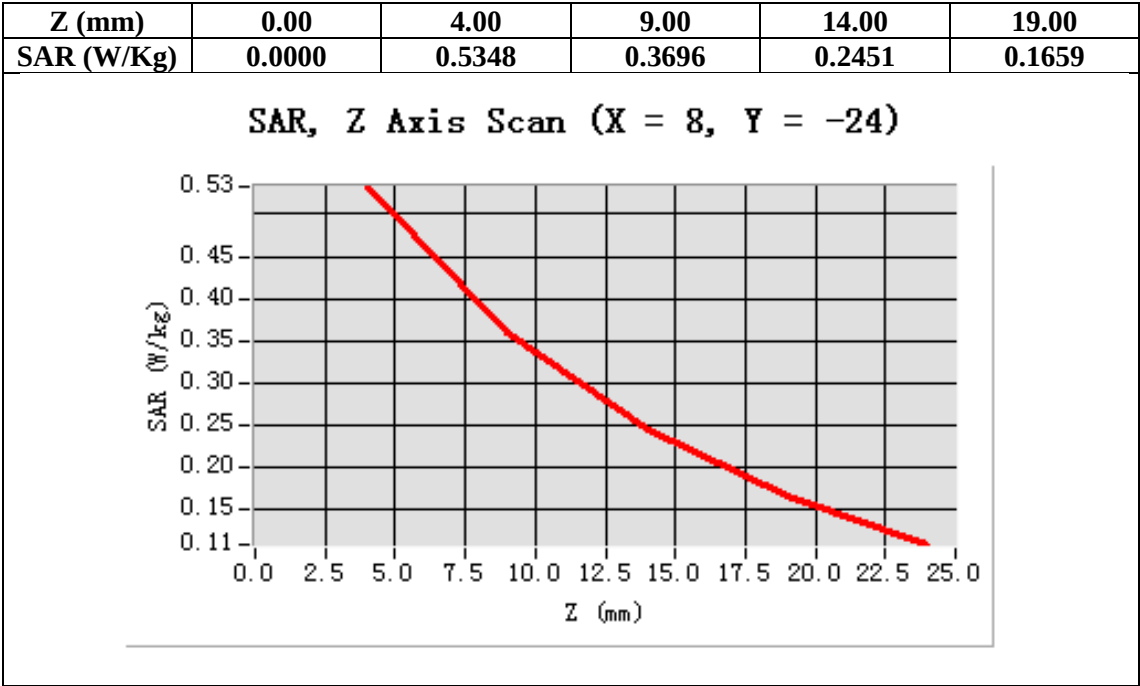
Configuration/GSM 835 Mid-Body-Back/Area Scan (6x8x1): Measurement grid: dx=8mm, dy=8mm
Configuration/GSM 835 Mid-Body-Back/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm;

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=-24.00

SAR 10g (W/Kg)	0.344975
SAR 1g (W/Kg)	0.513127



Test Laboratory: AGC Lab
GSM 835 Mid- Body- Front (MS) <SIM 1>
DUT: Mobile Phone; Type: QUE 5.5

Date: July 10,2014

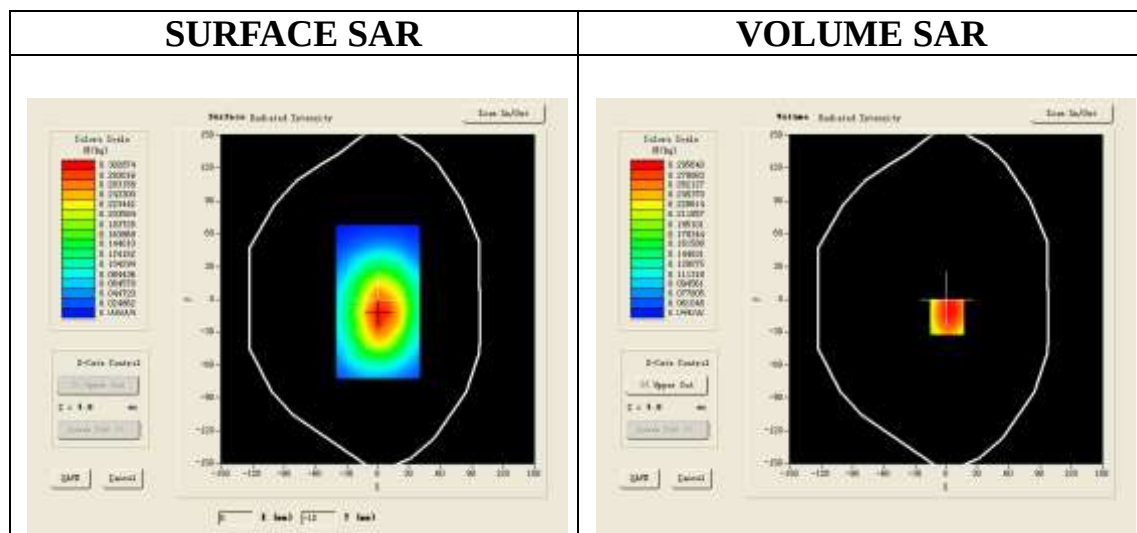
Communication System: Generic GSM; Communication System Band: GSM 835; Duty Cycle: 1:8.3; Conv.F=5.48;
Frequency: 836.6 MHz; Medium parameters used: $f = 835$ MHz; $\sigma = 0.96$ mho/m; $\epsilon_r = 55.19$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section
Ambient temperature (°C): 21.0, Liquid temperature (°C): 21.0

SATIMO Configuration:

- Probe: SSE5; Calibrated: 01/12/2014; Serial No.:SN 22/12 EP159
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: Flat Phantom; Type: Elliptical Phantom
- Measurement SW: OpenSAR V4_02_01

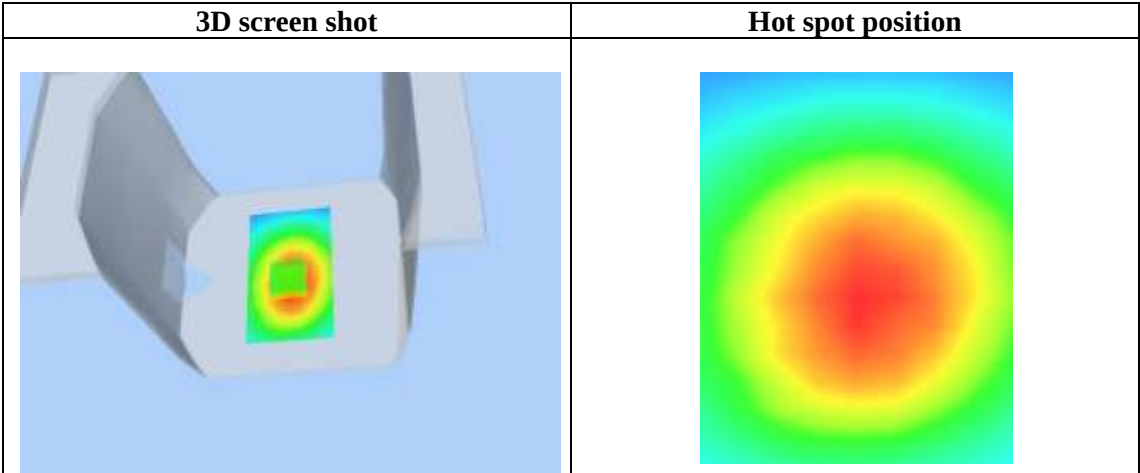
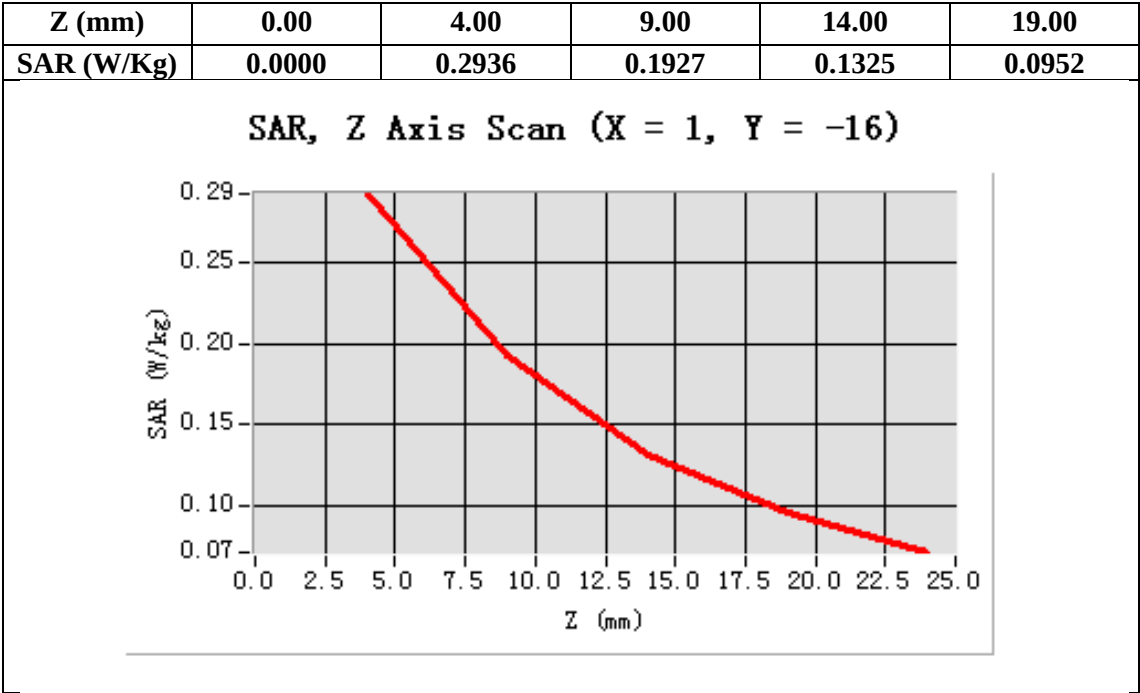
Configuration/GSM 835 Mid-Body- Front /Area Scan (6x8x1): Measurement grid: dx=8mm, dy=8mm
Configuration/GSM 835 Mid-Body- Front Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm;

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=1.00, Y=-16.00

SAR 10g (W/Kg)	0.195094
SAR 1g (W/Kg)	0.284218



Test Laboratory: AGC Lab
PCS 1900 Mid-Touch-Left <SIM 1>
DUT: Mobile Phone; Type: QUE 5.5

Date: July 10,2014

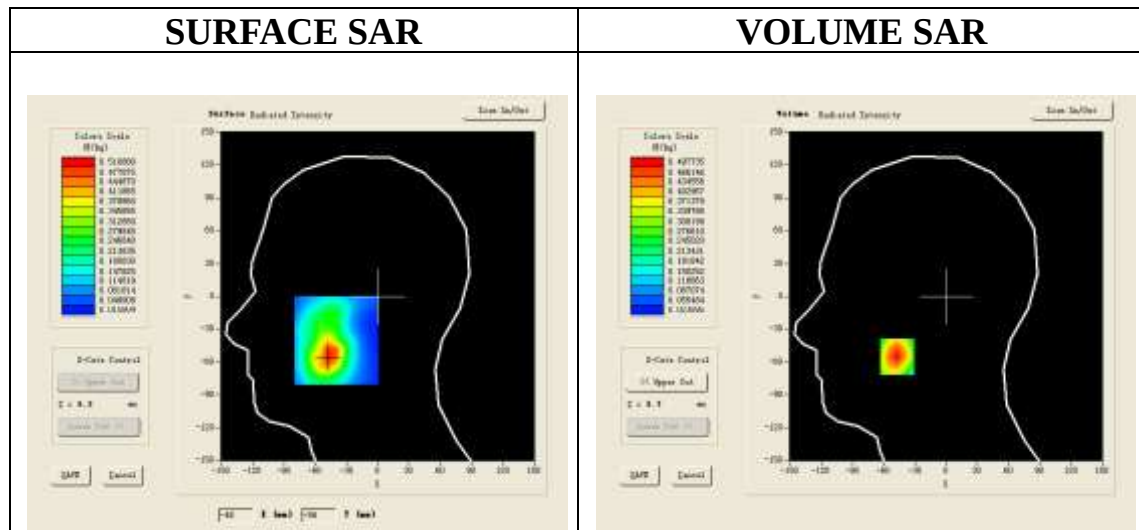
Communication System: Generic GSM; Communication System Band: PCS 1900; Duty Cycle: 1:8.3; Conv.F=4.51;
Frequency: 1880 MHz; Medium parameters used: $f = 1900$ MHz; $\sigma = 1.39$ mho/m; $\epsilon_r = 39.62$; $\rho = 1000$ kg/m³ ;
Phantom section: Left Section
Ambient temperature (°C): 21.0, Liquid temperature (°C): 21.0

SATIMO Configuration:

- Probe: SSE5; Calibrated: 01/12/2014; Serial No.:SN 22/12 EP159
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: Flat Phantom; Type: Elliptical Phantom
- Measurement SW: OpenSAR V4_02_01

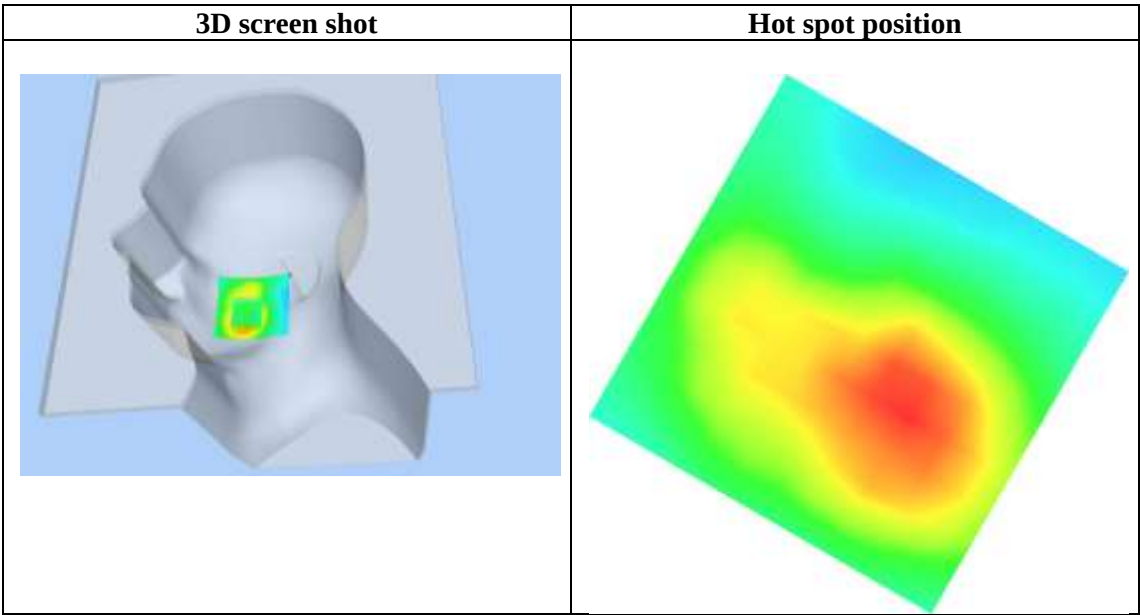
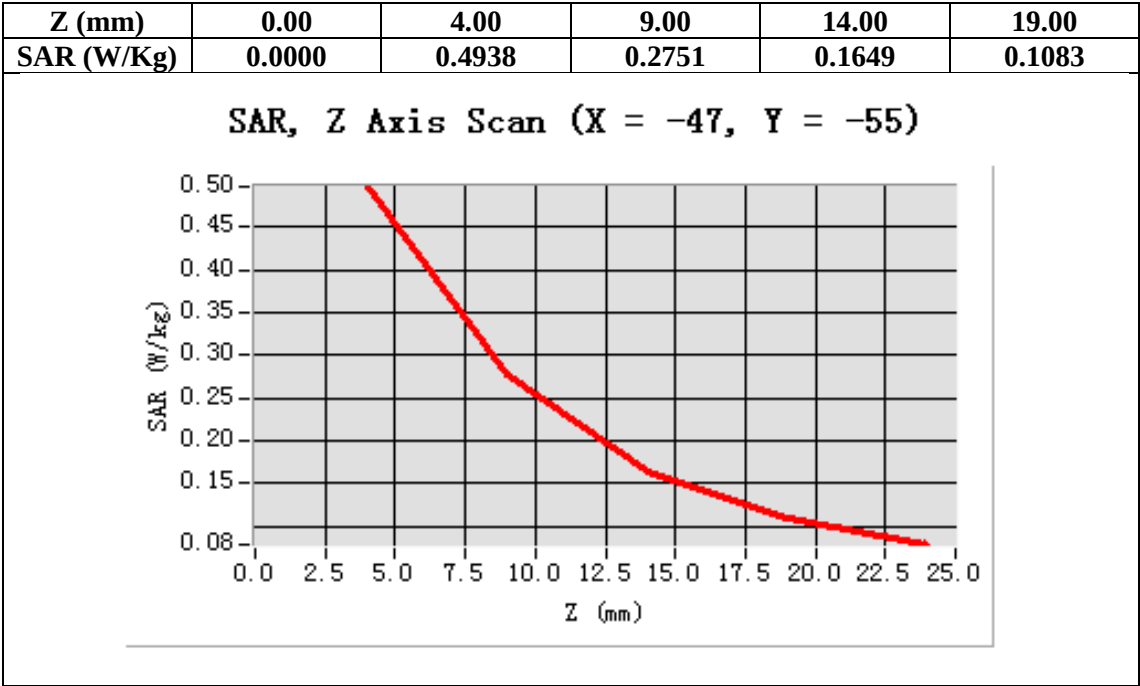
Configuration/PCS1900 Mid-Touch-Left/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/PCS1900 Mid-Touch-Left/Zoom Scan: Measurement grid: dx=8mm,
dy=8mm, dz=5mm;

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=-47.00, Y=-55.00

SAR 10g (W/Kg)	0.262419
SAR 1g (W/Kg)	0.475327



Test Laboratory: AGC Lab
PCS 1900 Mid-Tilt-Left <SIM 1>
DUT: Mobile Phone; Type: QUE 5.5

Date: July 10,2014

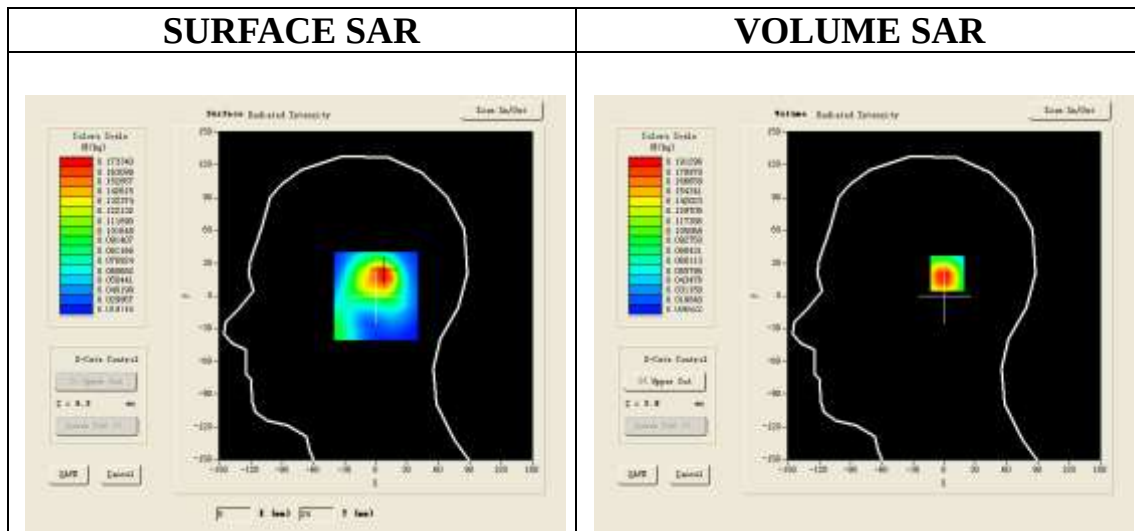
Communication System: Generic GSM; Communication System Band: PCS 1900; Duty Cycle: 1:8.3; Conv.F=4.51;
Frequency: 1880 MHz; Medium parameters used: $f = 1900$ MHz; $\sigma = 1.39$ mho/m; $\epsilon_r = 39.62$; $\rho = 1000$ kg/m³ ;
Phantom section: Left Section
Ambient temperature (°C): 21.0, Liquid temperature (°C): 21.0

SATIMO Configuration:

- Probe: SSE5; Calibrated: 01/12/2014; Serial No.:SN 22/12 EP159
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: Flat Phantom; Type: Elliptical Phantom
- Measurement SW: OpenSAR V4_02_01

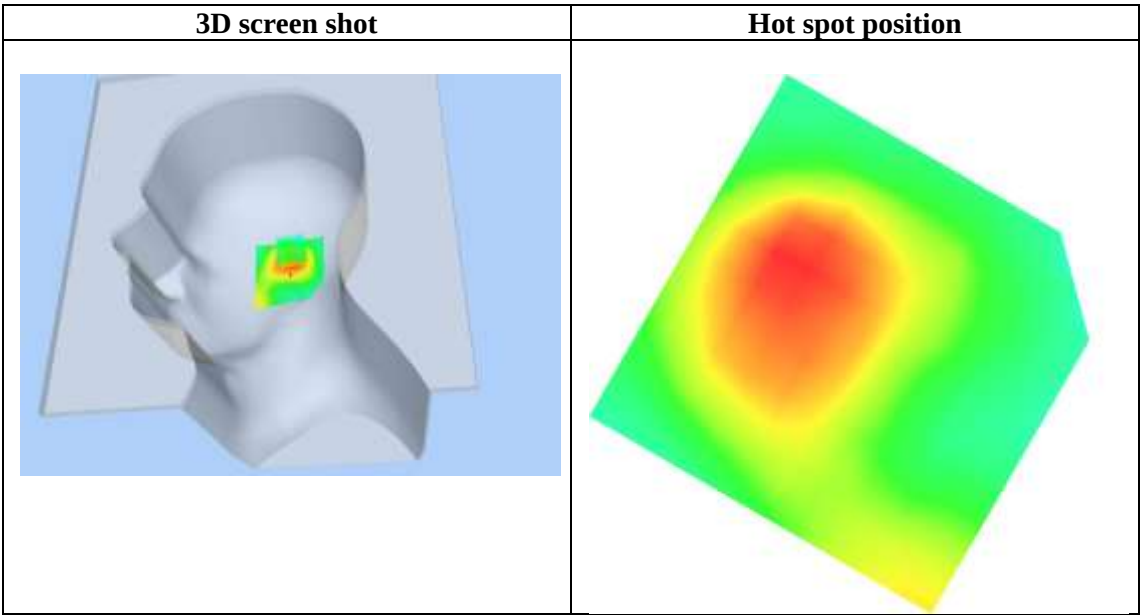
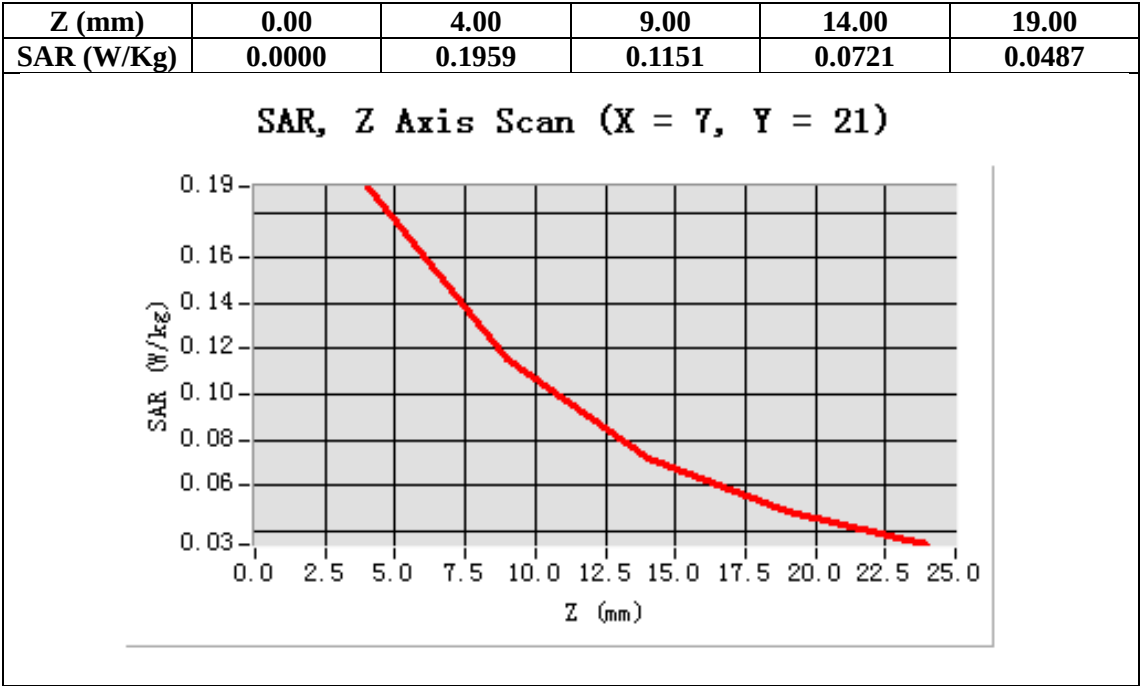
Configuration/PCS1900 Mid-Tilt-Left/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/PCS1900 Mid-Tilt-Left/Zoom Scan: Measurement grid: dx=8mm,
dy=8mm,dz=5mm;

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=7.00, Y=21.00

SAR 10g (W/Kg)	0.104317
SAR 1g (W/Kg)	0.185236



Test Laboratory: AGC Lab
PCS 1900 Mid-Touch-Right <SIM 1>
DUT: Mobile Phone; Type: QUE 5.5

Date: July 10,2014

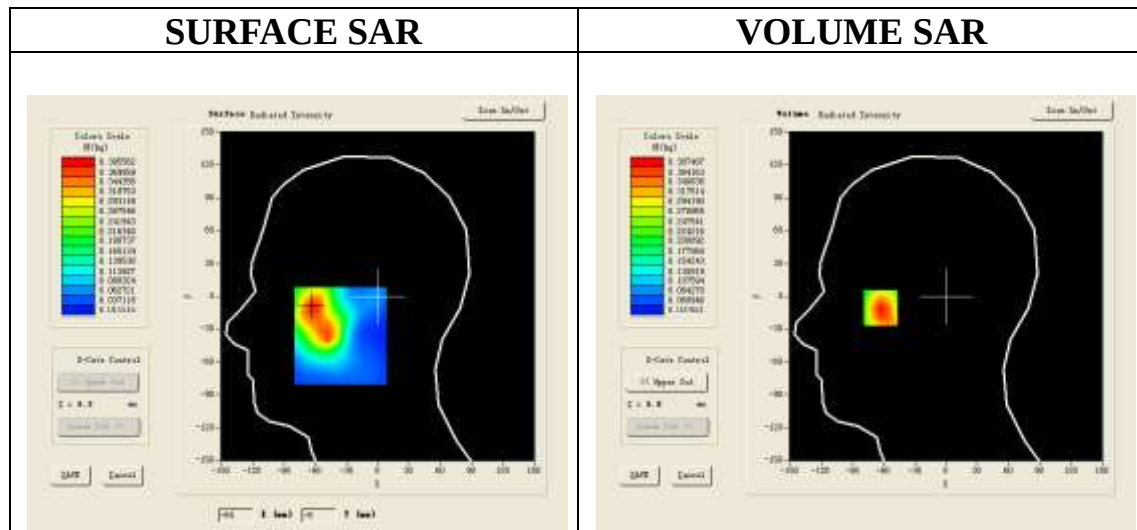
Communication System: Generic GSM; Communication System Band: PCS 1900; Duty Cycle: 1:8.3; Conv.F=4.51;
Frequency: 1880 MHz; Medium parameters used: $f = 1900$ MHz; $\sigma = 1.39$ mho/m; $\epsilon_r = 39.62$; $\rho = 1000$ kg/m³ ;
Phantom section: Right Section
Ambient temperature (°C): 21.0, Liquid temperature (°C): 21.0

SATIMO Configuration:

- Probe: SSE5; Calibrated: 01/12/2014; Serial No.:SN 22/12 EP159
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: Flat Phantom; Type: Elliptical Phantom
- Measurement SW: OpenSAR V4_02_01

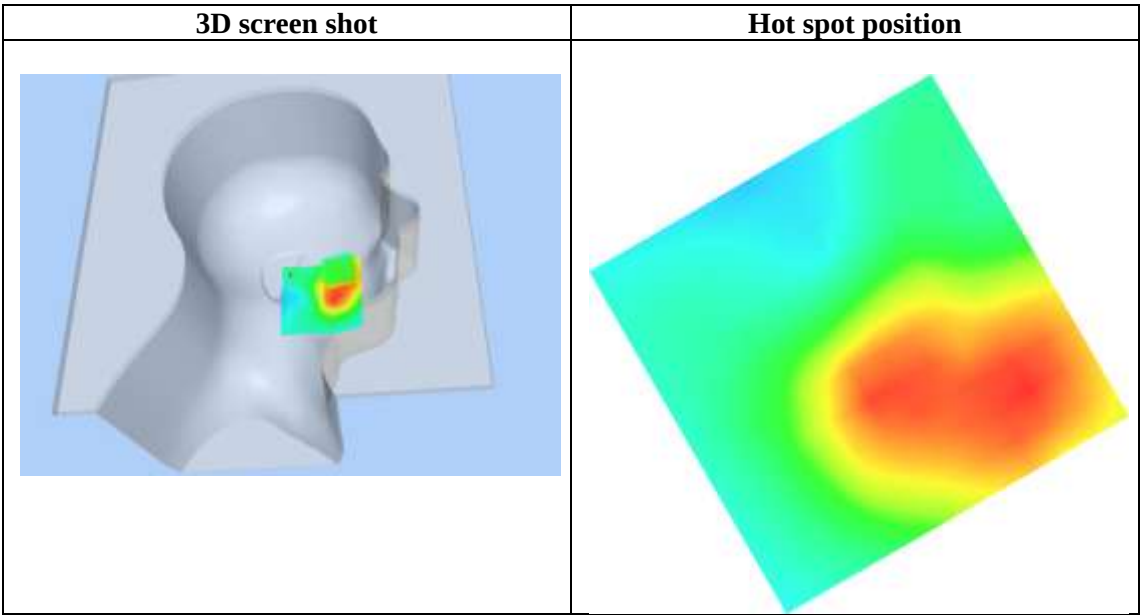
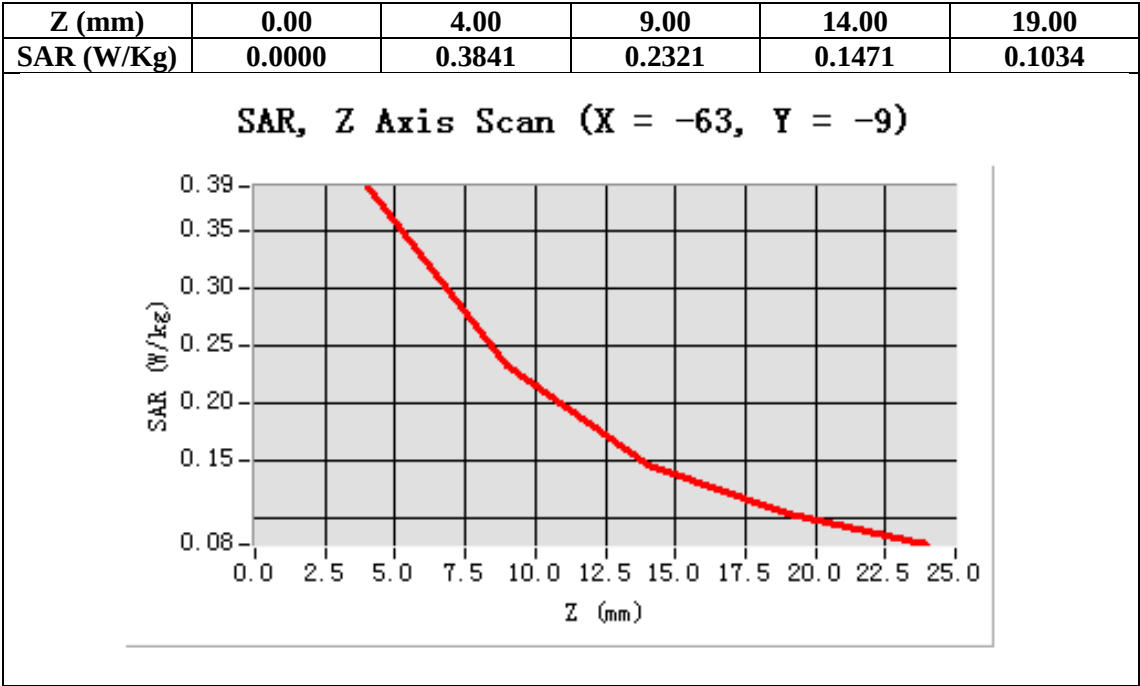
Configuration/PCS1900 Mid-Touch-Right/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/PCS1900 Mid-Touch-Right/Zoom Scan: Measurement grid: dx=8mm, dy=8mm, dz=5mm;

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=-63.00, Y=-9.00

SAR 10g (W/Kg)	0.225129
SAR 1g (W/Kg)	0.365594



Test Laboratory: AGC Lab
PCS 1900 Mid-Tilt-Right <SIM 1>
DUT: Mobile Phone; Type: QUE 5.5

Date: July 10,2014

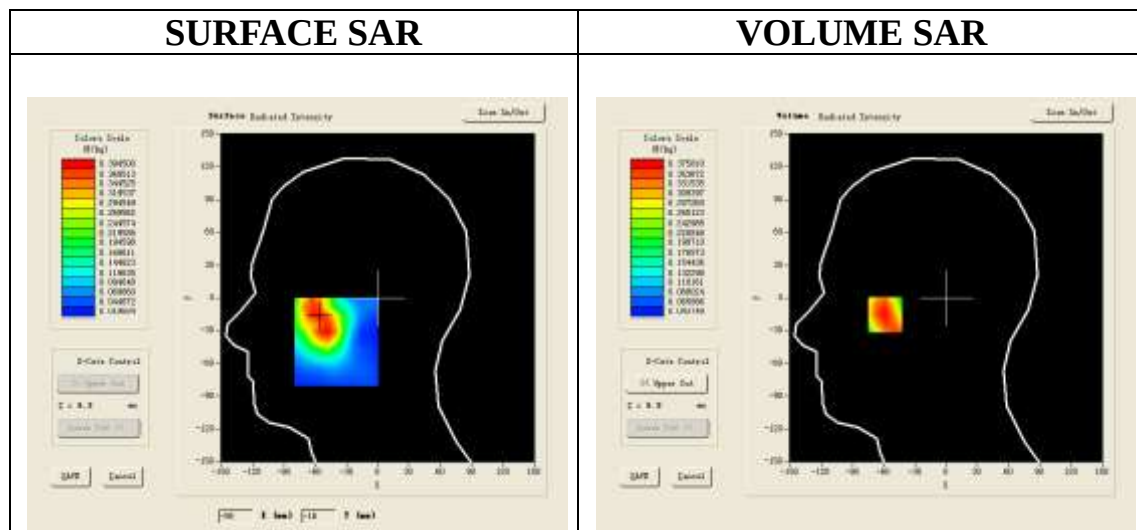
Communication System: Generic GSM; Communication System Band: PCS 1900; Duty Cycle: 1:8.3; Conv.F=4.51;
Frequency: 1880 MHz; Medium parameters used: $f = 1900$ MHz; $\sigma = 1.39$ mho/m; $\epsilon_r = 39.62$; $\rho = 1000$ kg/m³ ;
Phantom section: Right Section
Ambient temperature (°C): 21.0, Liquid temperature (°C): 21.0

SATIMO Configuration:

- Probe: SSE5; Calibrated: 01/12/2014; Serial No.:SN 22/12 EP159
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: Flat Phantom; Type: Elliptical Phantom
- Measurement SW: OpenSAR V4_02_01

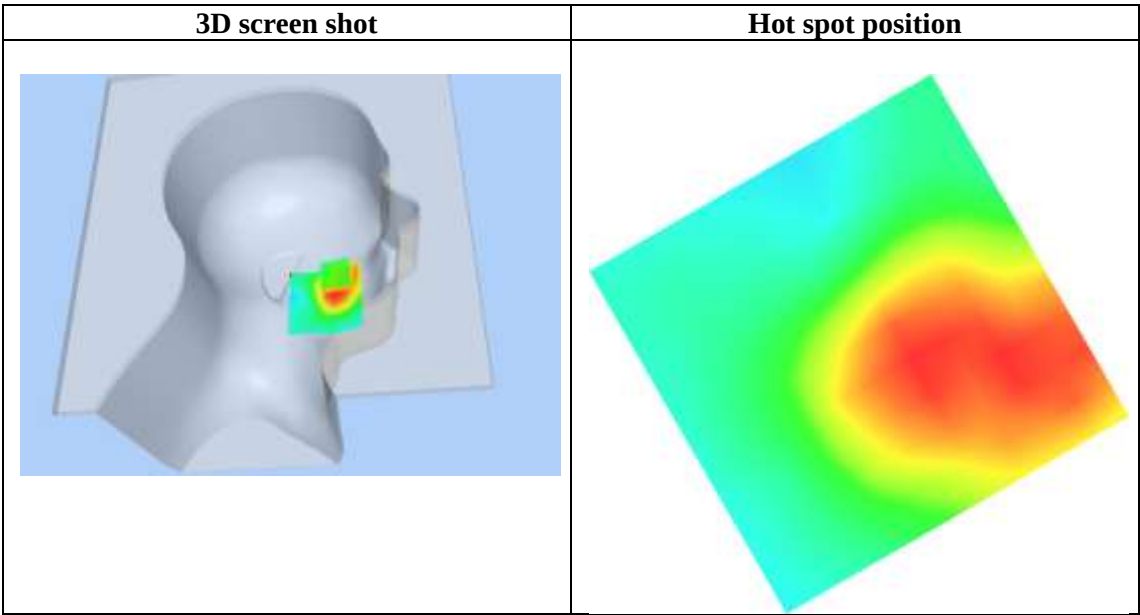
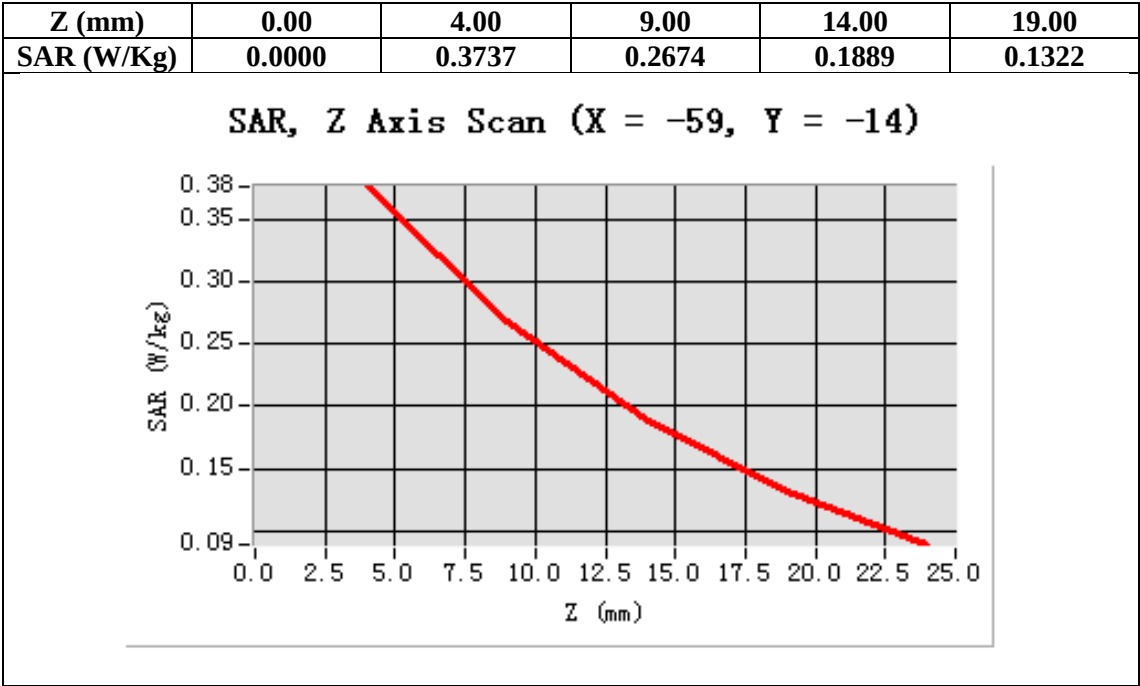
Configuration/PCS1900 Mid-Tilt-Right/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/PCS1900 Mid-Tilt-Right/Zoom Scan: Measurement grid: dx=8mm, dy=8mm, dz=5mm;

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=-59.00, Y=-14.00

SAR 10g (W/Kg)	0.243427
SAR 1g (W/Kg)	0.357523



Test Laboratory: AGC Lab
PCS 1900 Mid-Touch-Left <SIM 2>
DUT: Mobile Phone; Type: QUE 5.5

Date: July 10,2014

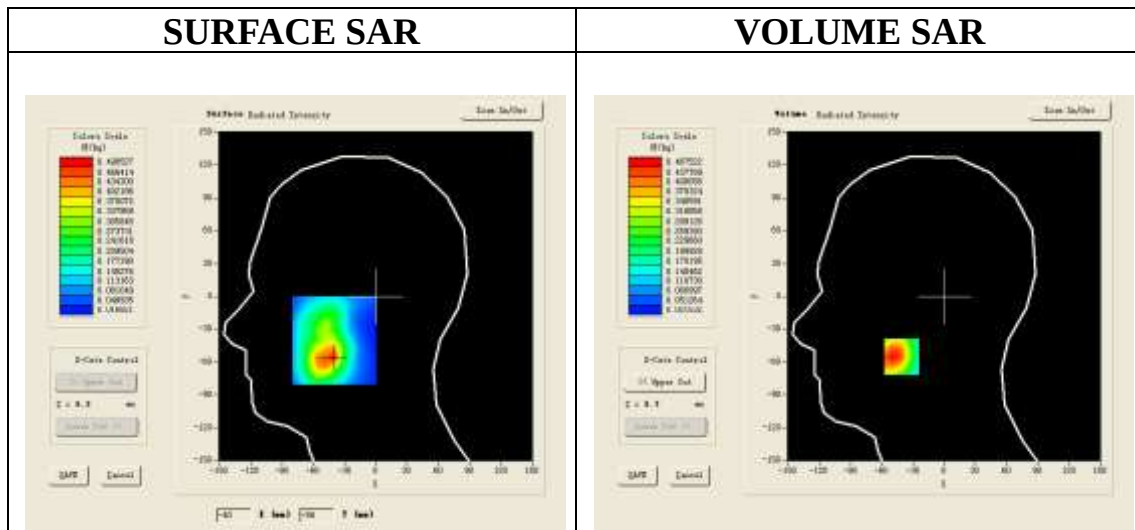
Communication System: Generic GSM; Communication System Band: PCS 1900; Duty Cycle: 1:8.3; Conv.F=4.51;
Frequency: 1880 MHz; Medium parameters used: $f = 1900$ MHz; $\sigma = 1.39$ mho/m; $\epsilon_r = 39.62$; $\rho = 1000$ kg/m³ ;
Phantom section: Left Section
Ambient temperature (°C): 21.0, Liquid temperature (°C): 21.0

SATIMO Configuration:

- Probe: SSE5; Calibrated: 01/12/2014; Serial No.:SN 22/12 EP159
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: Flat Phantom; Type: Elliptical Phantom
- Measurement SW: OpenSAR V4_02_01

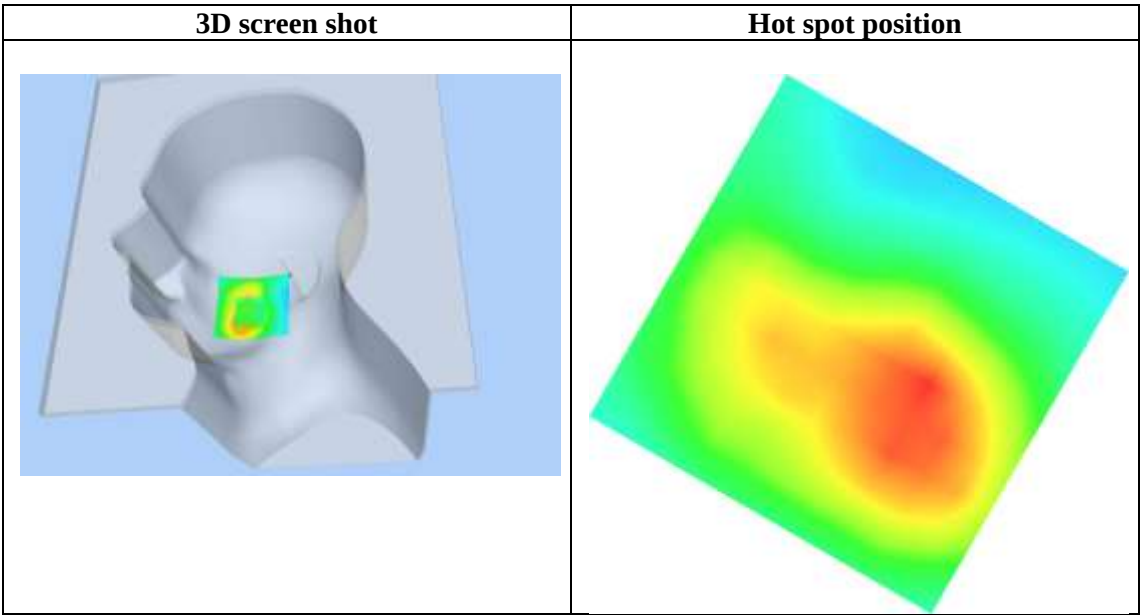
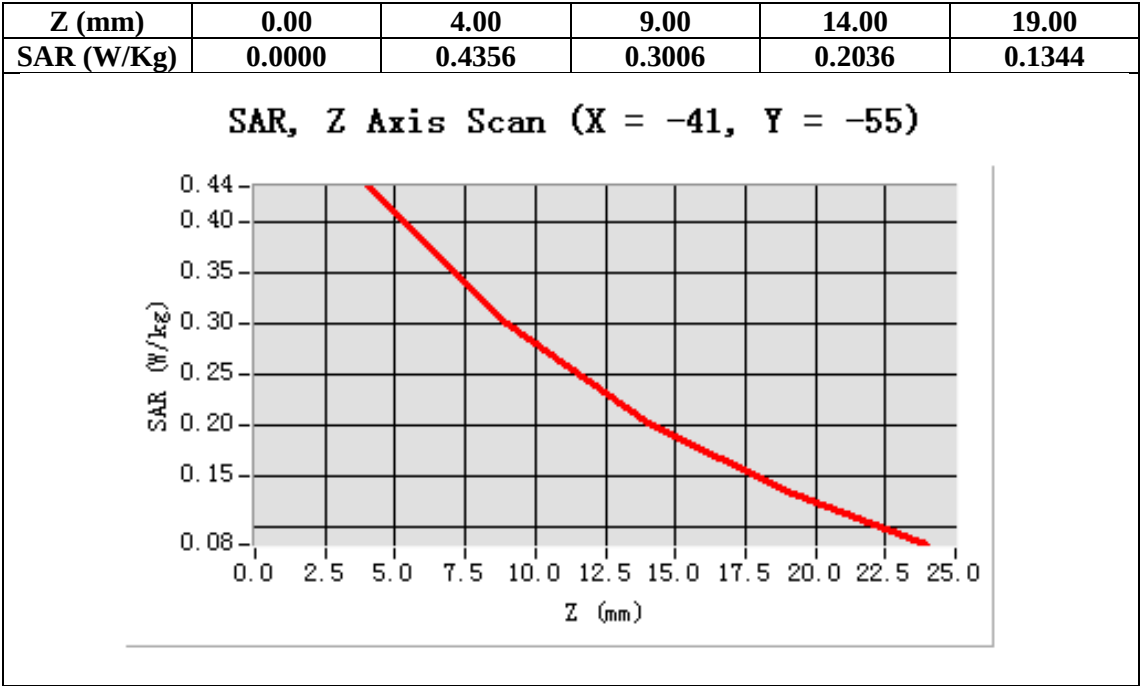
Configuration/PCS1900 Mid-Touch-Left/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/PCS1900 Mid-Touch-Left/Zoom Scan: Measurement grid: dx=8mm,
dy=8mm, dz=5mm;

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=-41.00, Y=-55.00

SAR 10g (W/Kg)	0.273196
SAR 1g (W/Kg)	0.444095



Test Laboratory: AGC Lab
PCS 1900 Mid-Body- Back <SIM 1>
DUT: Mobile Phone; Type: QUE 5.5

Date: July 10,2014

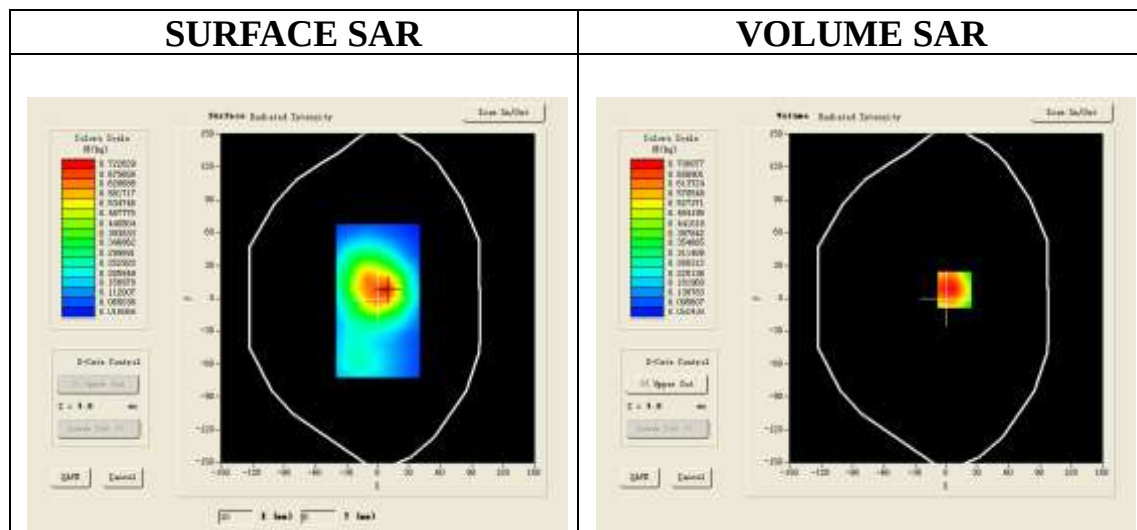
Communication System: Generic GSM; Communication System Band: PCS 1900; Duty Cycle: 1:8.3; Conv.F=4.45;
Frequency: 1880 MHz; Medium parameters used: $f = 1900$ MHz; $\sigma = 1.48$ mho/m; $\epsilon_r = 52.96$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section
Ambient temperature (°C): 21.0, Liquid temperature (°C): 21.0

SATIMO Configuration:

- Probe: SSE5; Calibrated: 01/12/2014; Serial No.:SN 22/12 EP159
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: Flat Phantom; Type: Elliptical Phantom
- Measurement SW: OpenSAR V4_02_01

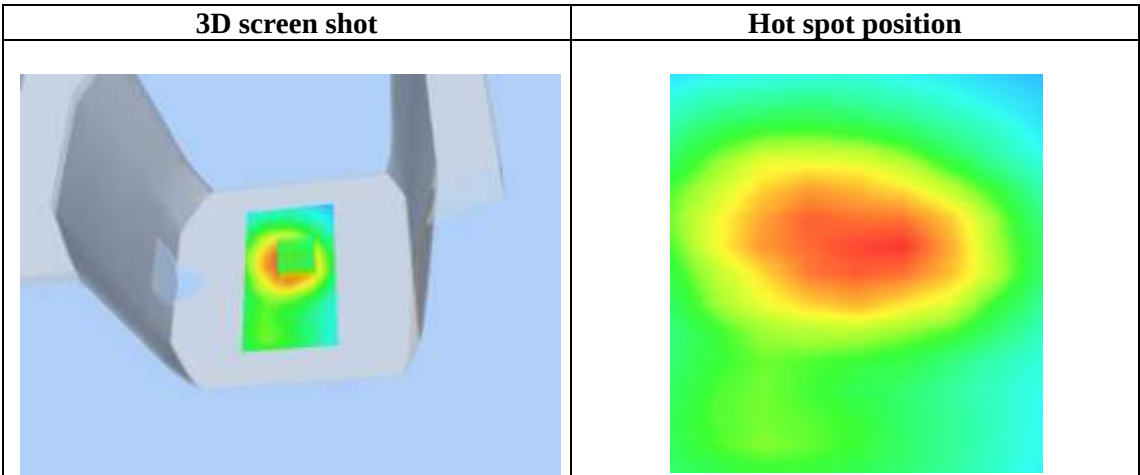
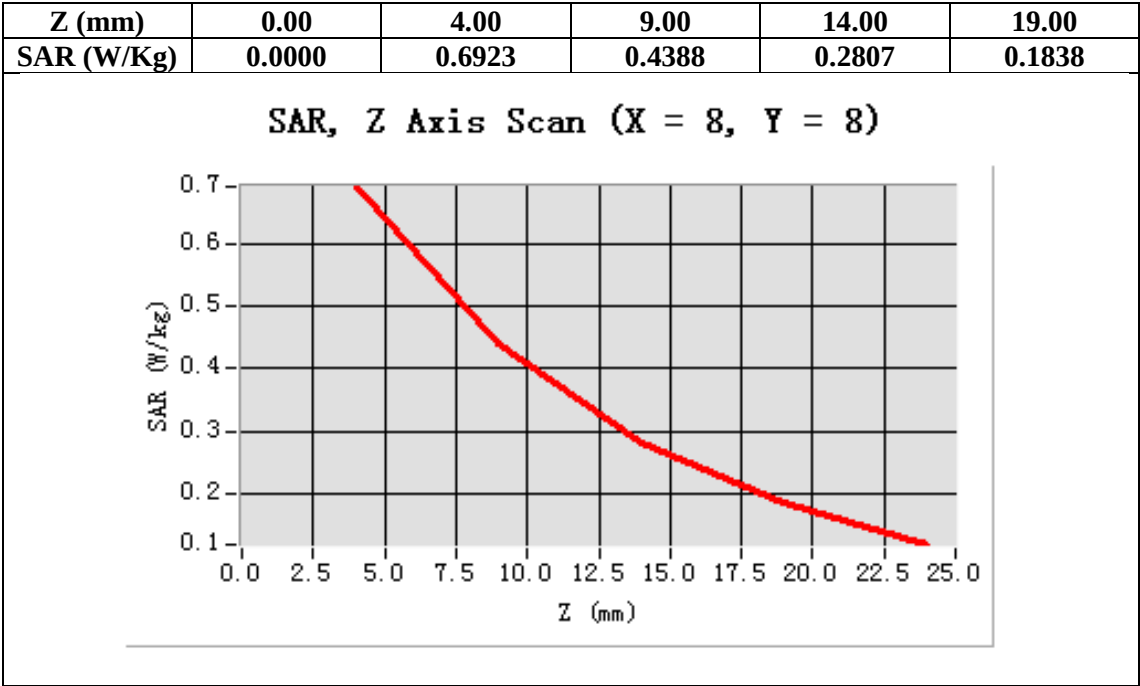
Configuration/PCS1900 Mid-Body-Back/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/PCS1900 Mid-Body-Back/Zoom Scan: Measurement grid: dx=8mm,
dy=8mm, dz=5mm;

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=8.00, Y=8.00

SAR 10g (W/Kg)	0.453137
SAR 1g (W/Kg)	0.736341



Test Laboratory: AGC Lab
PCS 1900 Mid-Body -Front (MS) <SIM 1>
DUT: Mobile Phone; Type: QUE 5.5

Date: July 10,2014

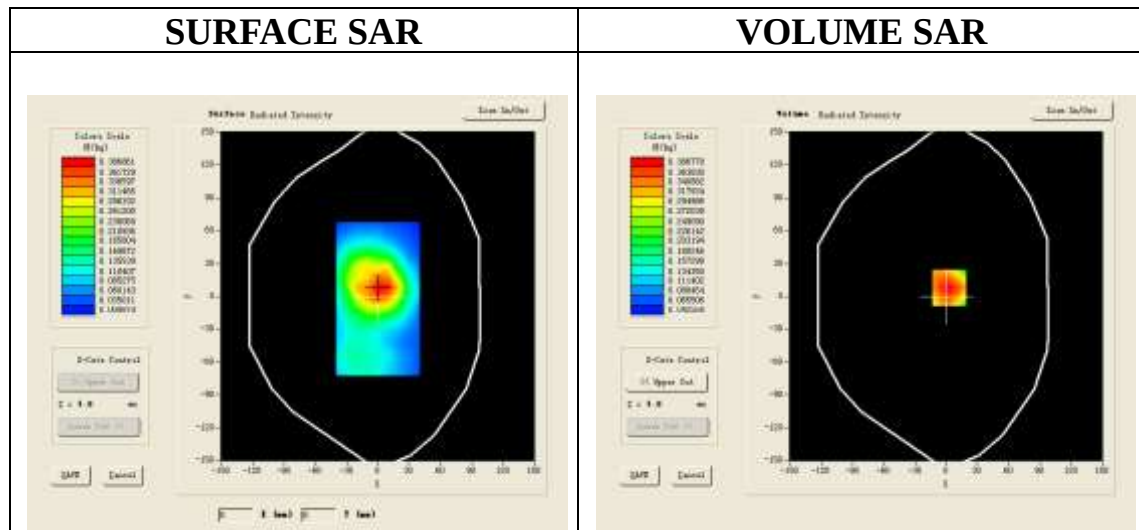
Communication System: Generic GSM; Communication System Band: PCS 1900; Duty Cycle: 1:8.3; Conv.F=4.45;
Frequency: 1880 MHz; Medium parameters used: $f = 1900$ MHz; $\sigma = 1.48$ mho/m; $\epsilon_r = 52.96$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section
Ambient temperature (°C): 21.0, Liquid temperature (°C): 21.0

SATIMO Configuration:

- Probe: SSE5; Calibrated: 01/12/2014; Serial No.:SN 22/12 EP159
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: Flat Phantom; Type: Elliptical Phantom
- Measurement SW: OpenSAR V4_02_01

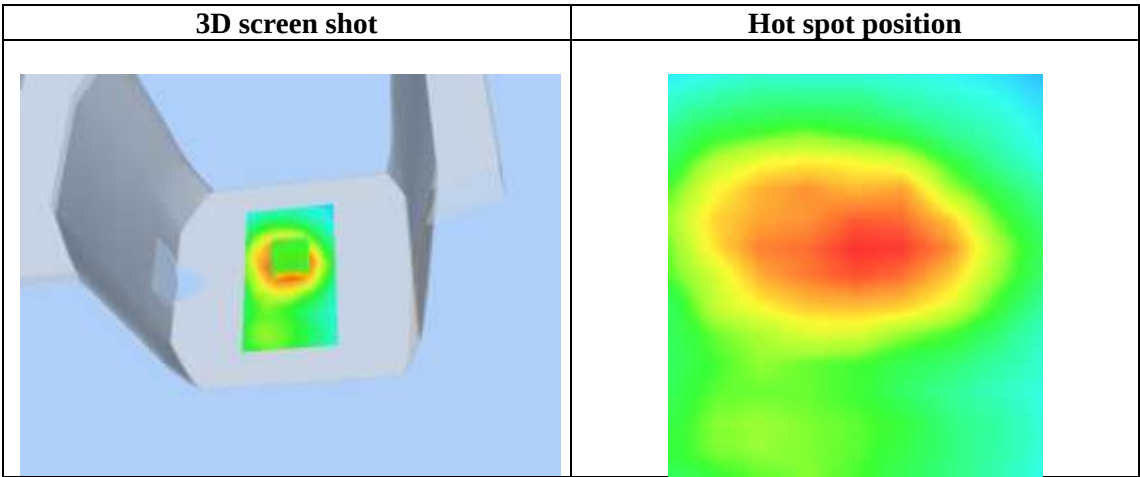
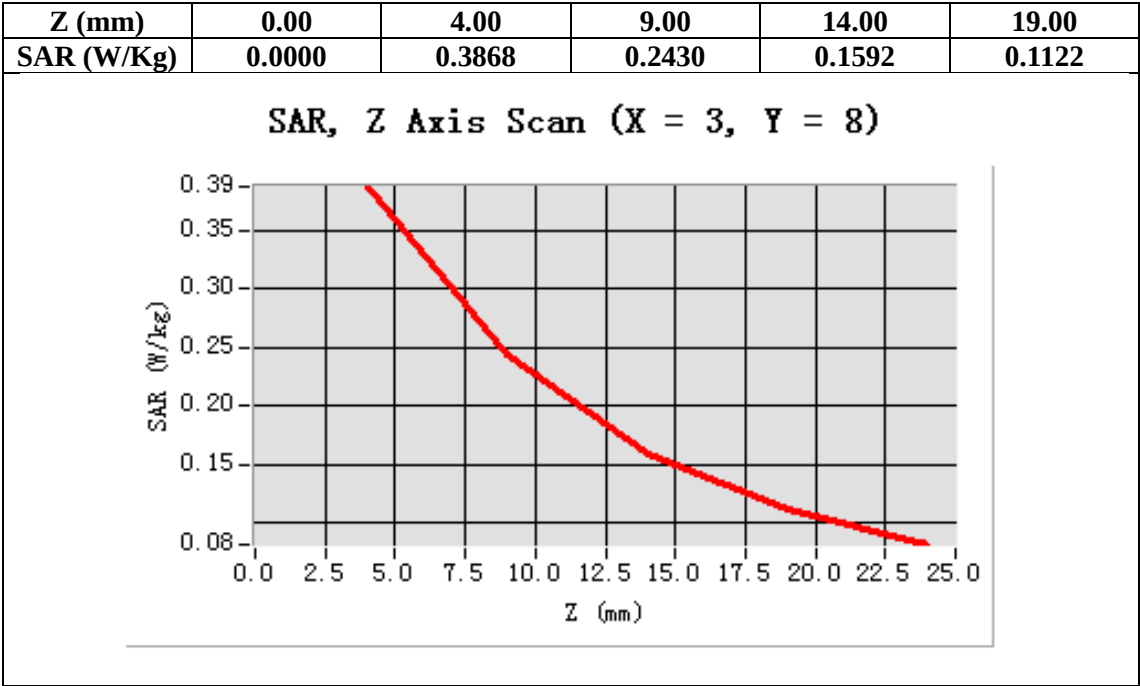
Configuration/PCS1900 Mid-Body- Front /Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/PCS1900 Mid-Body- Front /Zoom Scan: Measurement grid: dx=8mm,
dy=8mm, dz=5mm;

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=3.00, Y=8.00

SAR 10g (W/Kg)	0.255642
SAR 1g (W/Kg)	0.404219



Test Laboratory: AGC Lab
WCDMA Band II Low-Touch-Left (RMC)
DUT: Mobile Phone; **Type:** QUE 5.5

Date: July 10,2014

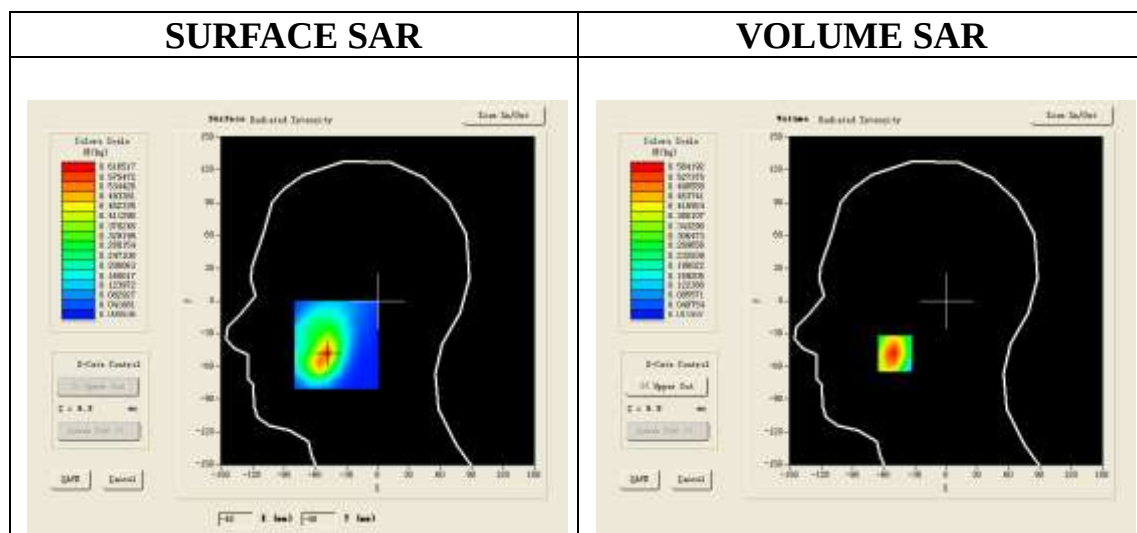
Communication System: UMTS; Communication System Band: Band II UTRA/FDD ;Duty Cycle:1:1;Conv.F=4.51
Frequency: 1907.6 MHz; Medium parameters used: $f = 1900$ MHz; $\sigma = 1.41$ mho/m; $\epsilon_r = 40.16$; $\rho = 1000$ kg/m³ ;
Phantom section: Left Section
Ambient temperature (°C):21, Liquid temperature (°C):21

SATIMO Configuration:

- Probe: SSE5; Calibrated: 01/12/2014; Serial No.:SN 22/12 EP159
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: Flat Phantom; Type: Elliptical Phantom
- Measurement SW: OpenSAR V4_02_01

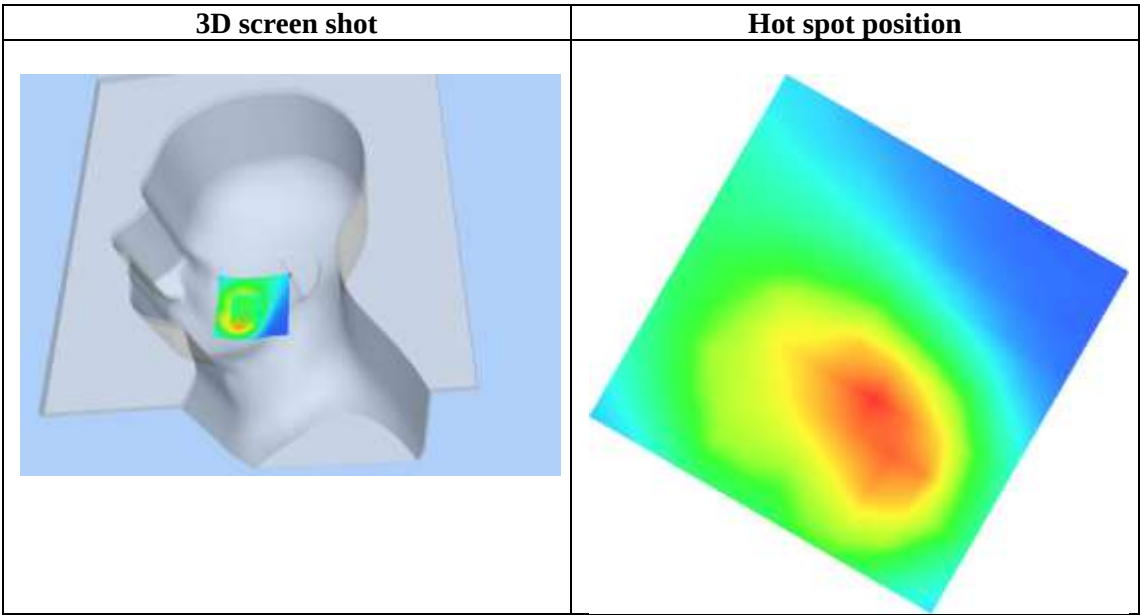
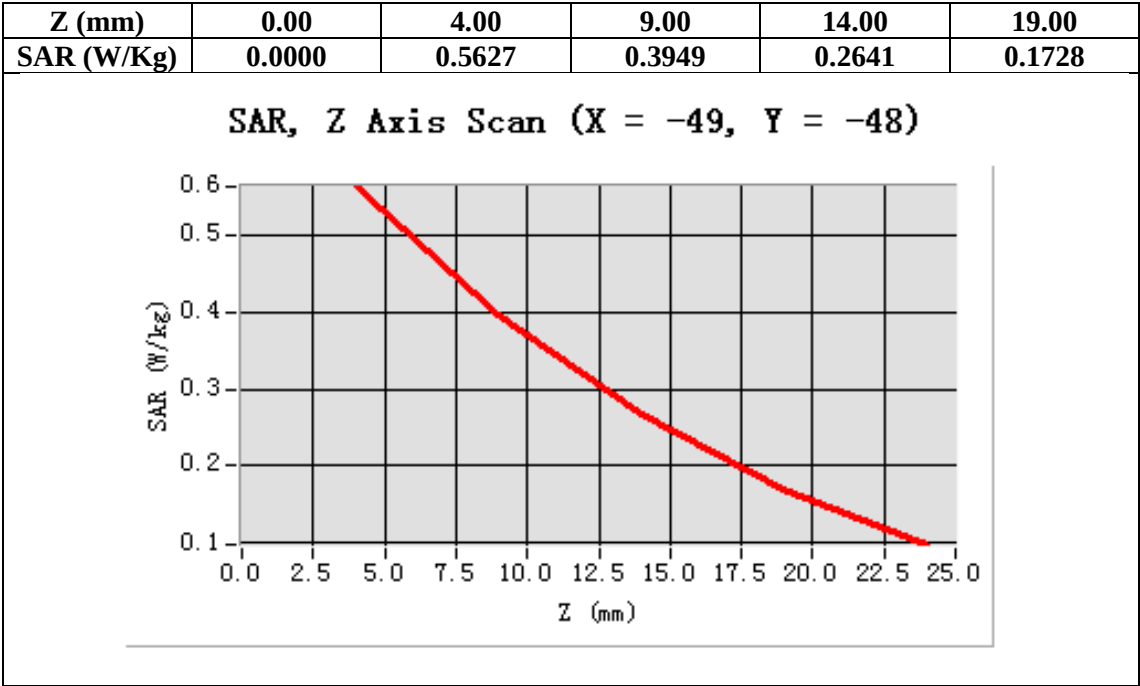
Configuration/ WCDMA Band II Low-Touch-Left/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/ WCDMA Band II Low-Touch-Left/Zoom Scan: Measurement grid:
dx=8mm,dy=8mm,dz=5mm;

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	Low
Signal	CDMA (Crest factor: 1.0)



Maximum location: X=-49.00, Y=-48.00

SAR 10g (W/Kg)	0.312086
SAR 1g (W/Kg)	0.533137



Test Laboratory: AGC Lab
WCDMA Band II Mid-Touch-Left (RMC)
DUT: Mobile Phone; Type: QUE 5.5

Date: July 10,2014

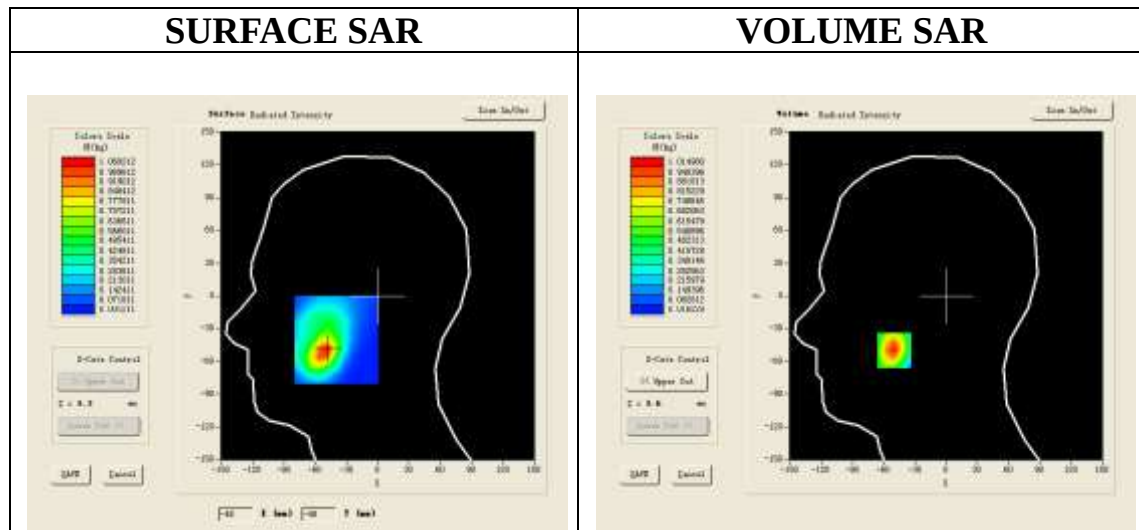
Communication System: UMTS; Communication System Band: Band II UTRA/FDD ;Duty Cycle:1:1;Conv.F=4.51
Frequency: 1880 MHz; Medium parameters used: $f = 1900$ MHz; $\sigma = 1.39$ mho/m; $\epsilon_r = 39.62$; $\rho = 1000$ kg/m³ ;
Phantom section: Left Section
Ambient temperature (°C):21, Liquid temperature (°C):21

SATIMO Configuration:

- Probe: SSE5; Calibrated: 01/12/2014; Serial No.:SN 22/12 EP159
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: Flat Phantom; Type: Elliptical Phantom
- Measurement SW: Open SAR V4_02_01

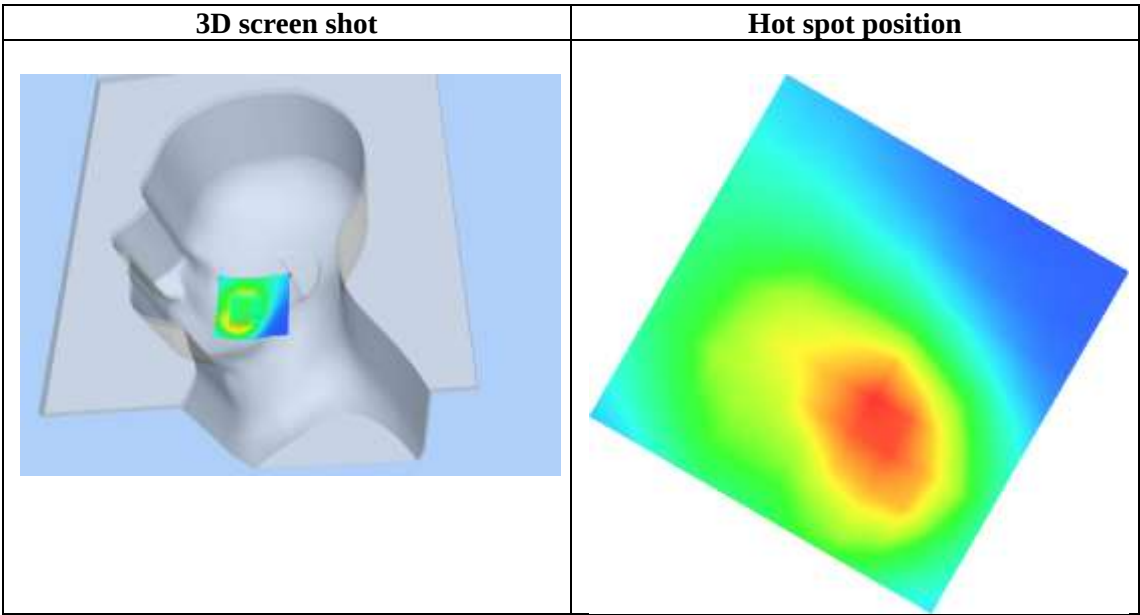
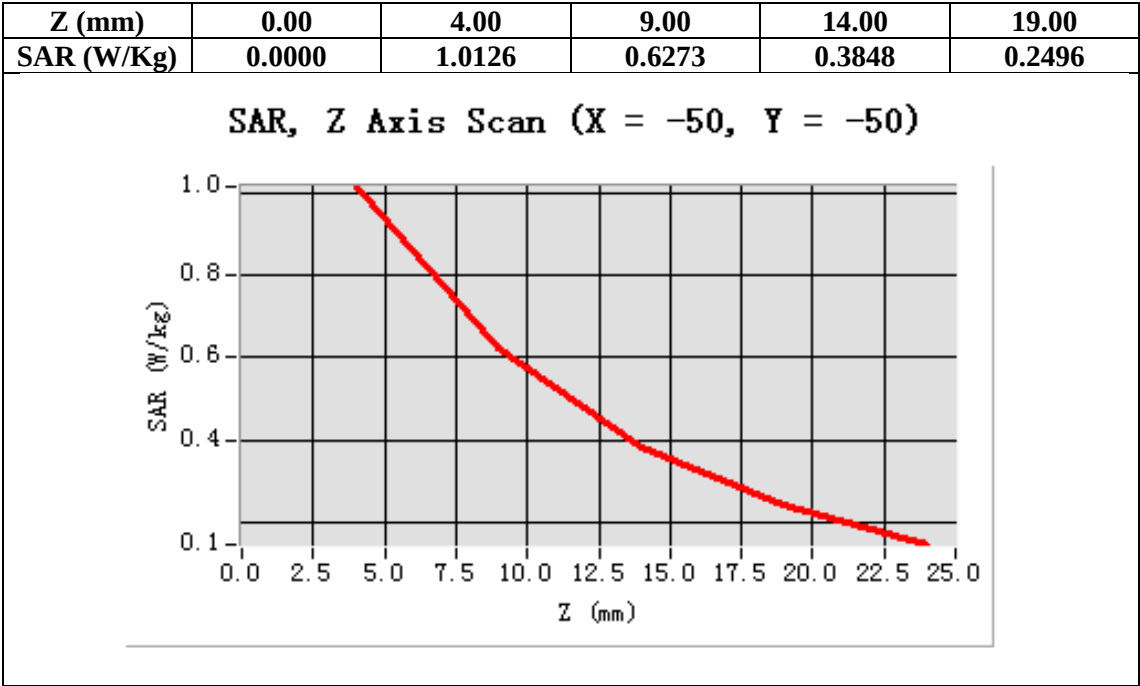
Configuration/ WCDMA Band II Mid-Touch-Left/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/ WCDMA Band II Mid-Touch-Left/Zoom Scan: Measurement grid:
dx=8mm,dy=8mm,dz=5mm;

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	CDMA (Crest factor: 1.0)



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

SAR 10g (W/Kg)	0.523572
SAR 1g (W/Kg)	0.941270



Test Laboratory: AGC Lab
WCDMA Band II High-Touch-Left (RMC)
DUT: Mobile Phone; **Type:** QUE 5.5

Date: July 10,2014

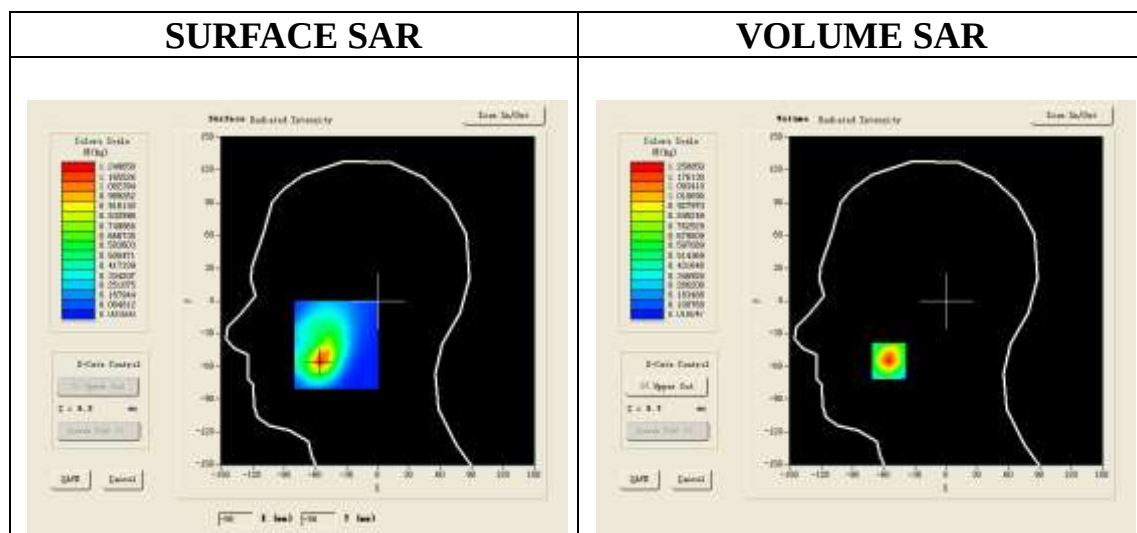
Communication System: UMTS; Communication System Band: Band II UTRA/FDD ;Duty Cycle:1:1;Conv.F=4.51
Frequency:1852.4 MHz; Medium parameters used: $f = 1900$ MHz; $\sigma = 1.42$ mho/m; $\epsilon_r = 40.10$; $\rho = 1000$ kg/m³ ;
Phantom section: Left Section
Ambient temperature (°C):21, Liquid temperature (°C):21

SATIMO Configuration:

- Probe: SSE5; Calibrated: 01/12/2014; Serial No.:SN 22/12 EP159
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: Flat Phantom; Type: Elliptical Phantom
- Measurement SW: OpenSAR V4_02_01

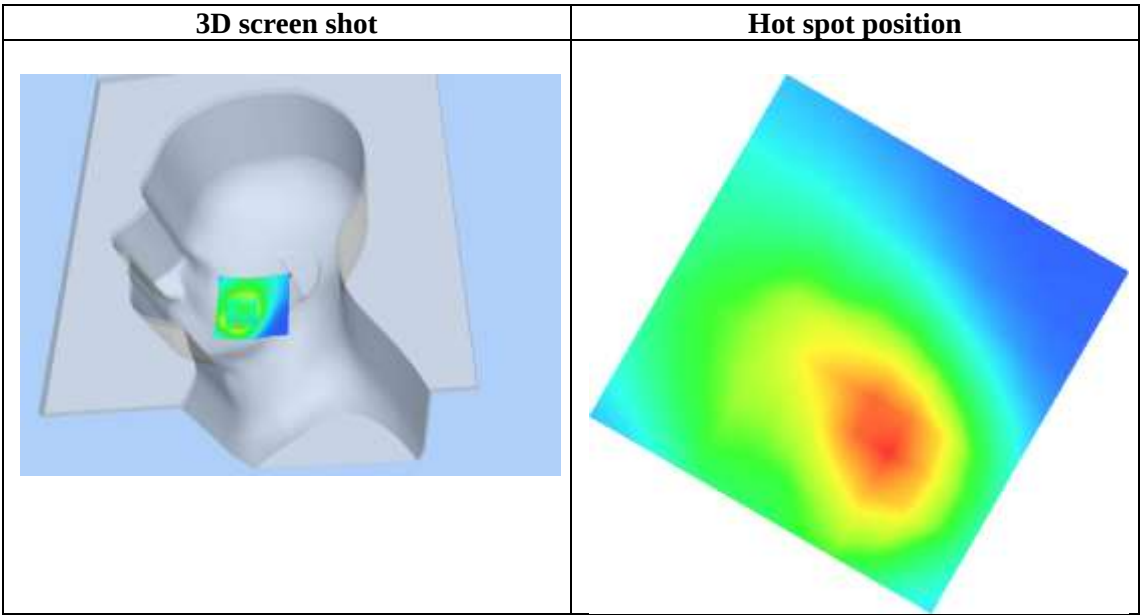
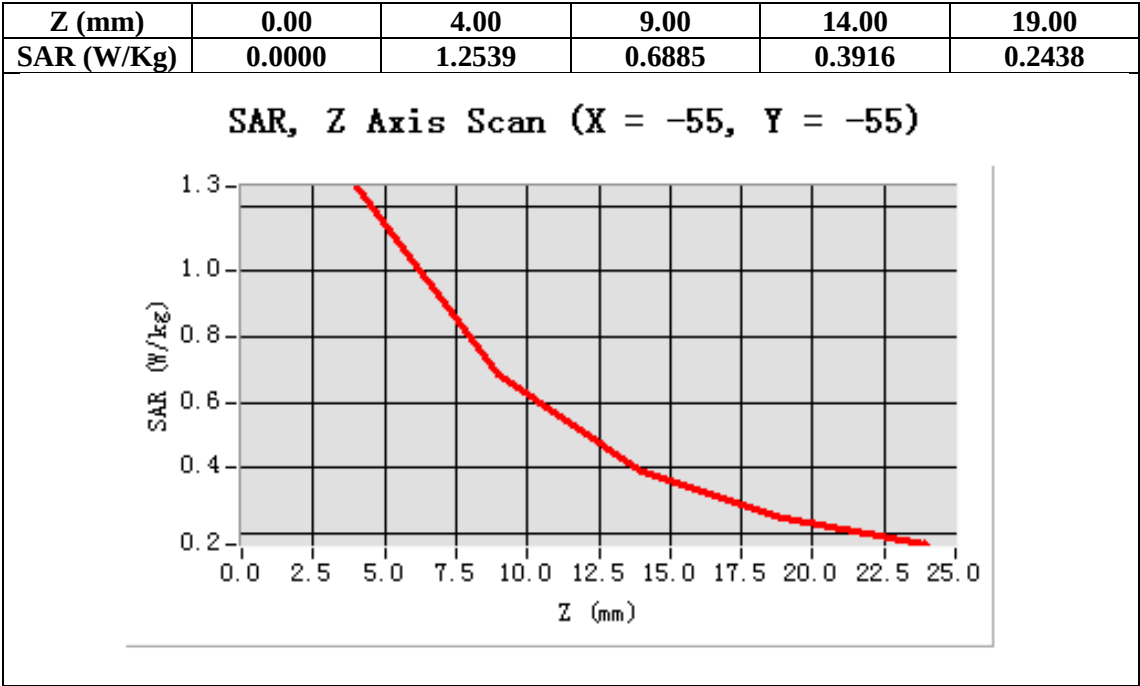
Configuration/ WCDMA Band II High-Touch-Left/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/ WCDMA Band II High-Touch-Left/Zoom Scan: Measurement grid:
dx=8mm,dy=8mm,dz=5mm;

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	High
Signal	CDMA (Crest factor: 1.0)



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

SAR 10g (W/Kg)	0.603805
SAR 1g (W/Kg)	1.112774



Test Laboratory: AGC Lab
WCDMA Band II Mid-Tilt-Left (RMC)
DUT: Mobile Phone; Type: QUE 5.5

Date: July 10,2014

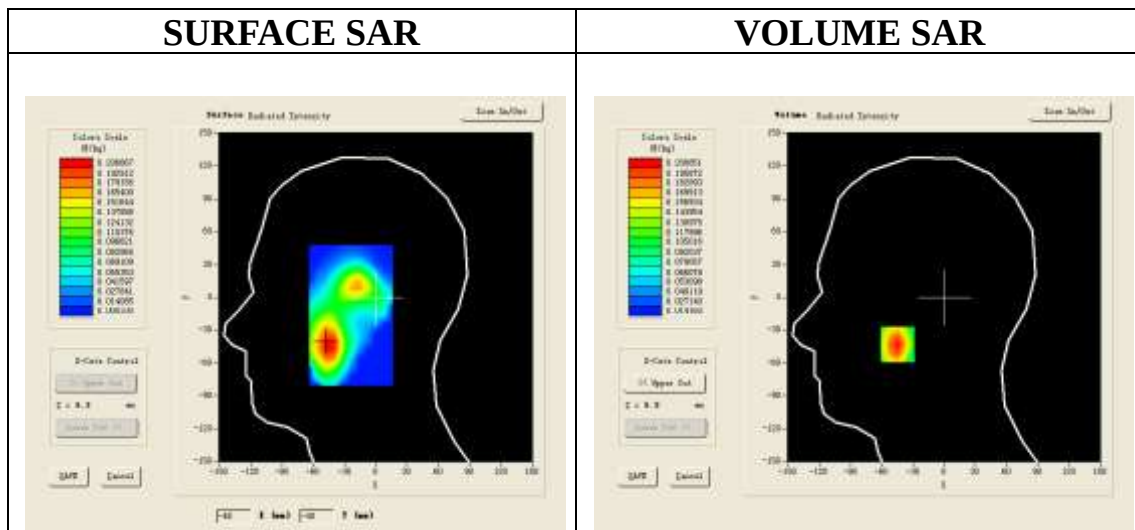
Communication System: UMTS; Communication System Band: Band II UTRA/FDD ;Duty Cycle:1:1; Conv.F=4.51
Frequency: 1880 MHz; Medium parameters used: $f = 1900$ MHz; $\sigma = 1.39$ mho/m; $\epsilon_r = 39.62$; $\rho = 1000$ kg/m³ ;
Phantom section: Left Section
Ambient temperature (°C):21, Liquid temperature (°C):21

SATIMO Configuration:

- Probe: SSE5; Calibrated: 01/12/2014; Serial No.:SN 22/12 EP159
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: Flat Phantom; Type: Elliptical Phantom
- Measurement SW: OpenSAR V4_02_01

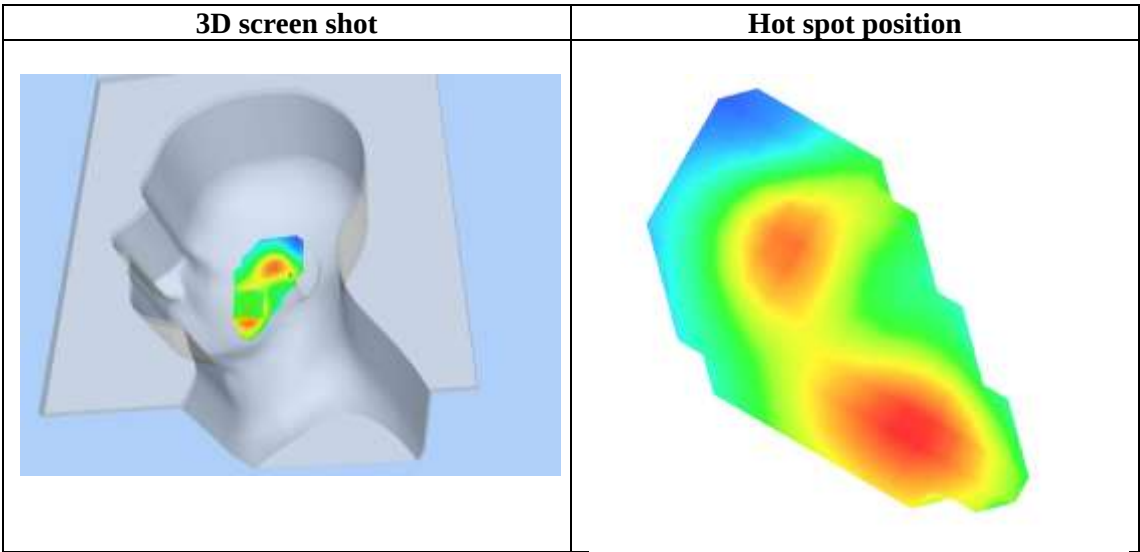
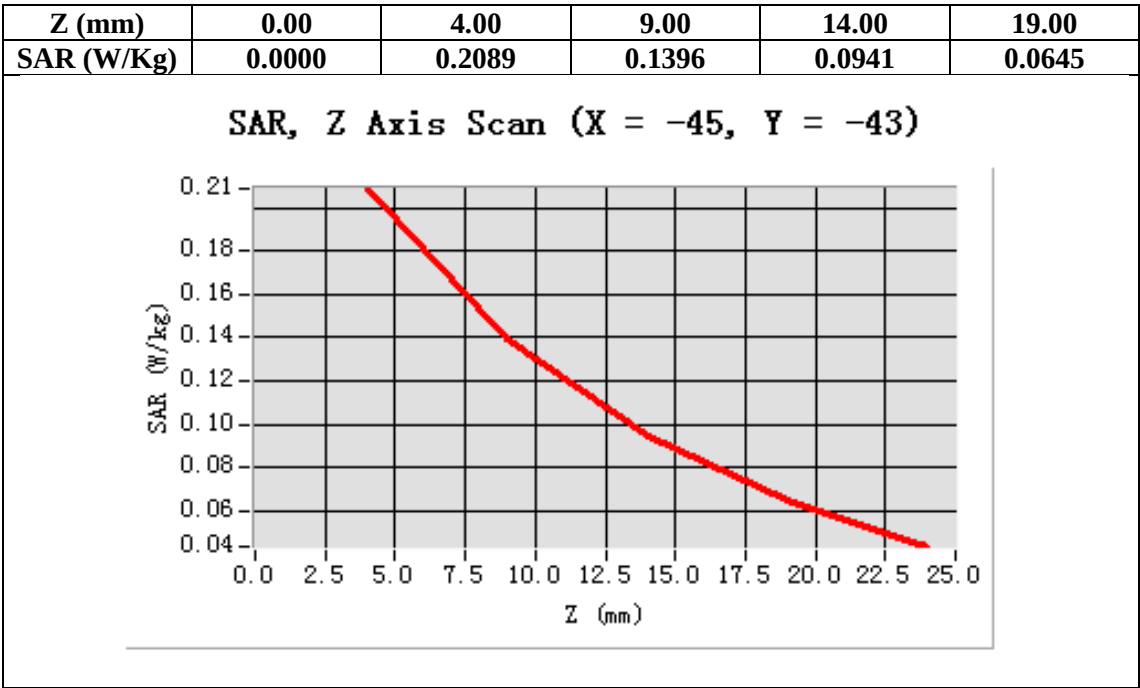
Configuration/ WCDMA Band II Mid-Tilt-Left/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/ WCDMA Band II Mid-Tilt-Left/Zoom Scan: Measurement grid: dx=8mm, dy=8mm, dz=5mm;

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	CDMA (Crest factor: 1.0)



Maximum location: X=-45.00, Y=-43.00

SAR 10g (W/Kg)	0.123770
SAR 1g (W/Kg)	0.194218



Test Laboratory: AGC Lab
WCDMA Band II Mid-Touch-Right (RMC)
DUT: Mobile Phone; Type: QUE 5.5

Date: July 10,2014

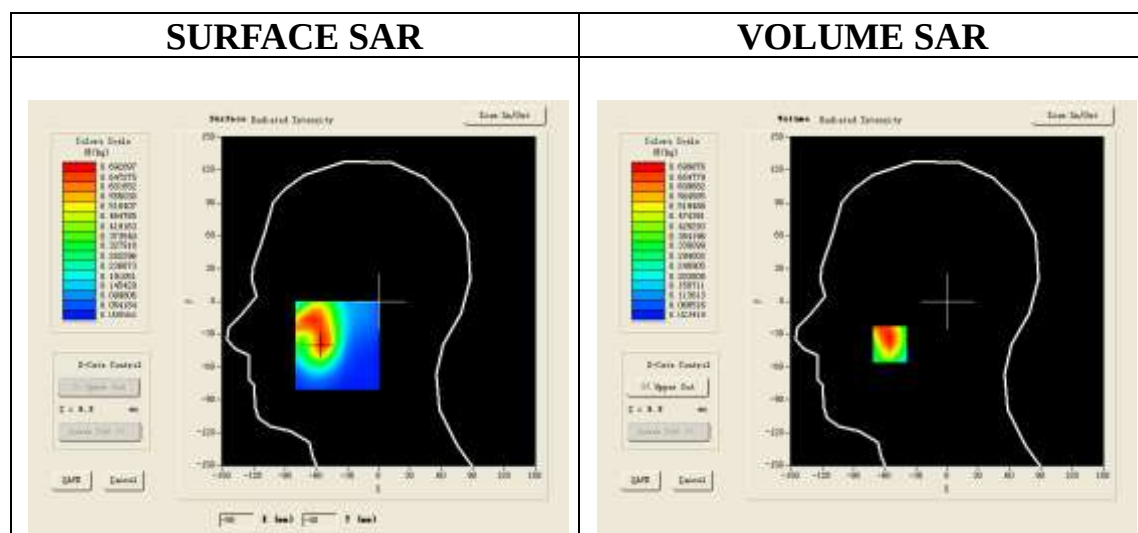
Communication System: UMTS; Communication System Band: Band II UTRA/FDD ;Duty Cycle:1:1; Conv.F=4.51
Frequency: 1880 MHz; Medium parameters used: $f = 1900$ MHz; $\sigma = 1.39$ mho/m; $\epsilon_r = 39.62$; $\rho = 1000$ kg/m³ ;
Phantom section: Right Section
Ambient temperature (°C):21, Liquid temperature (°C):21

SATIMO Configuration:

- Probe: SSE5; Calibrated: 01/12/2014; Serial No.:SN 22/12 EP159
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: Flat Phantom; Type: Elliptical Phantom
- Measurement SW: OpenSAR V4_02_01

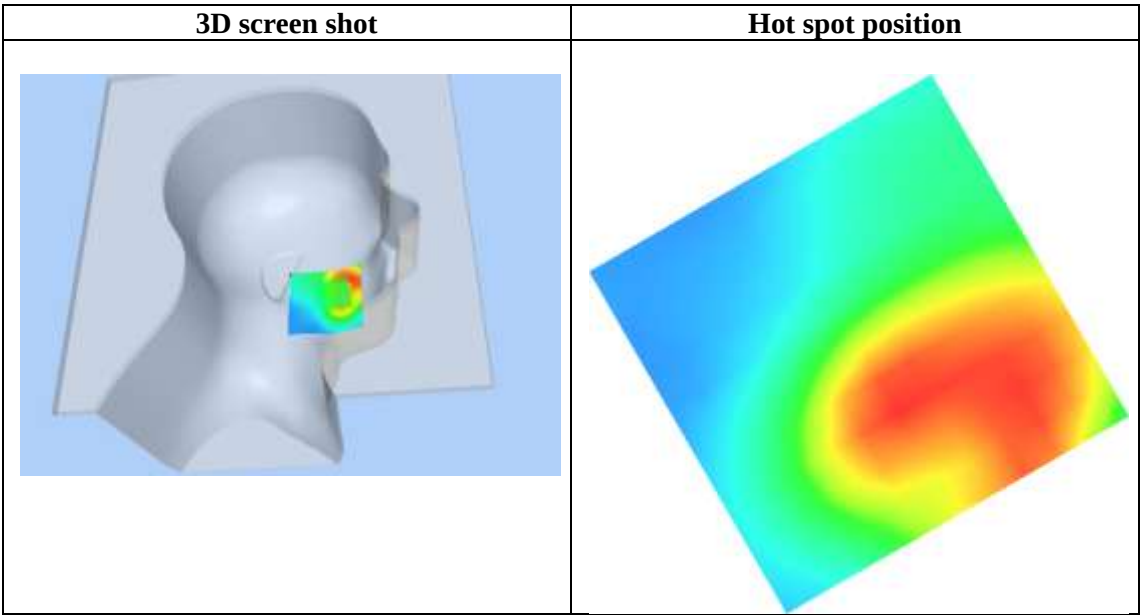
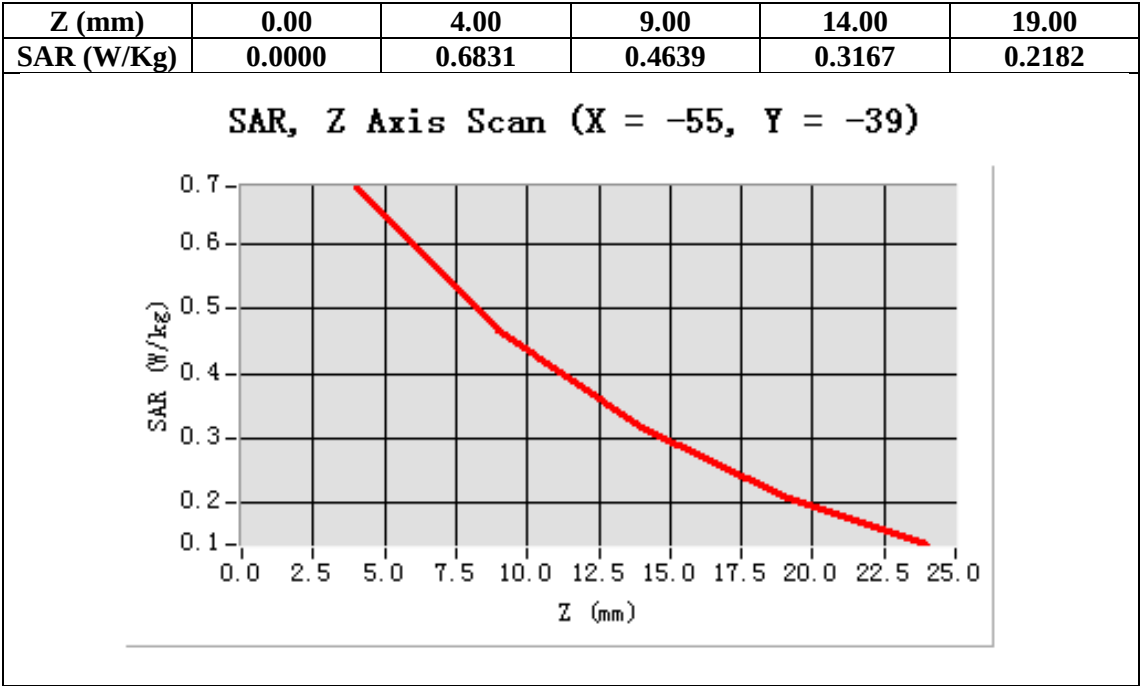
Configuration/ WCDMA band II Mid-Touch-Right/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/ WCDMA band II Mid-Touch-Right/Zoom Scan: Measurement grid: dx=8mm, dy=8mm, dz=5mm;

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	CDMA (Crest factor: 1.0)



Maximum location: X=-55.00, Y=-39.00

SAR 10g (W/Kg)	0.413390
SAR 1g (W/Kg)	0.661659



Test Laboratory: AGC Lab
WCDMA Band II Mid-Tilt-Right <RMC>
DUT: Mobile Phone; Type: QUE 5.5

Date: July 10,2014

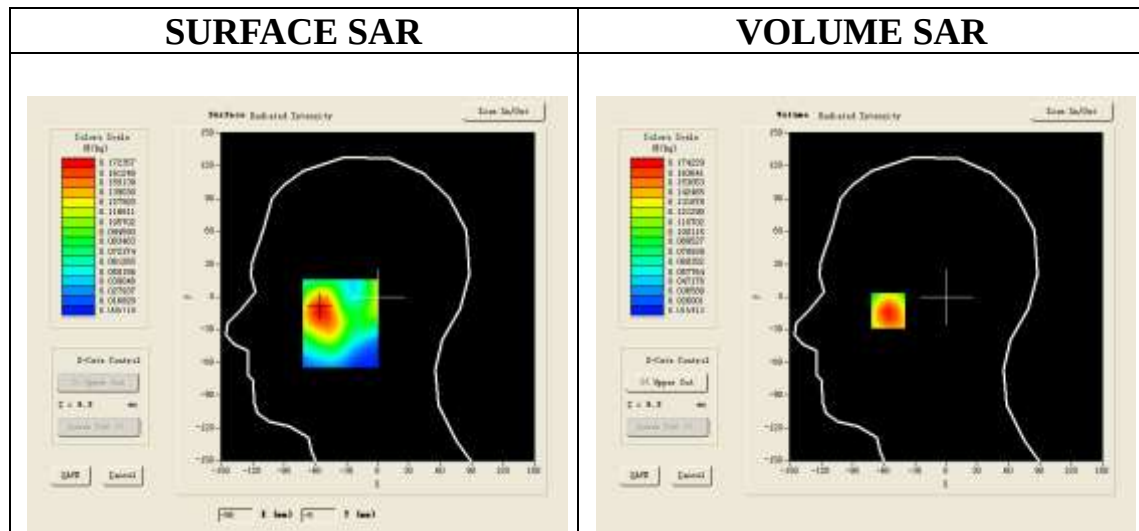
Communication System: UMTS; Communication System Band: Band II UTRA/FDD ;Duty Cycle:1:1; Conv.F=4.51
Frequency: 1880 MHz; Medium parameters used: $f = 1900$ MHz; $\sigma = 1.39$ mho/m; $\epsilon_r = 39.62$; $\rho = 1000$ kg/m³ ;
Phantom section: Right Section
Ambient temperature (°C):21, Liquid temperature (°C):21

SATIMO Configuration:

- Probe: SSE5; Calibrated: 01/12/2014; Serial No.:SN 22/12 EP159
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: Flat Phantom; Type: Elliptical Phantom
- Measurement SW: OpenSAR V4_02_01

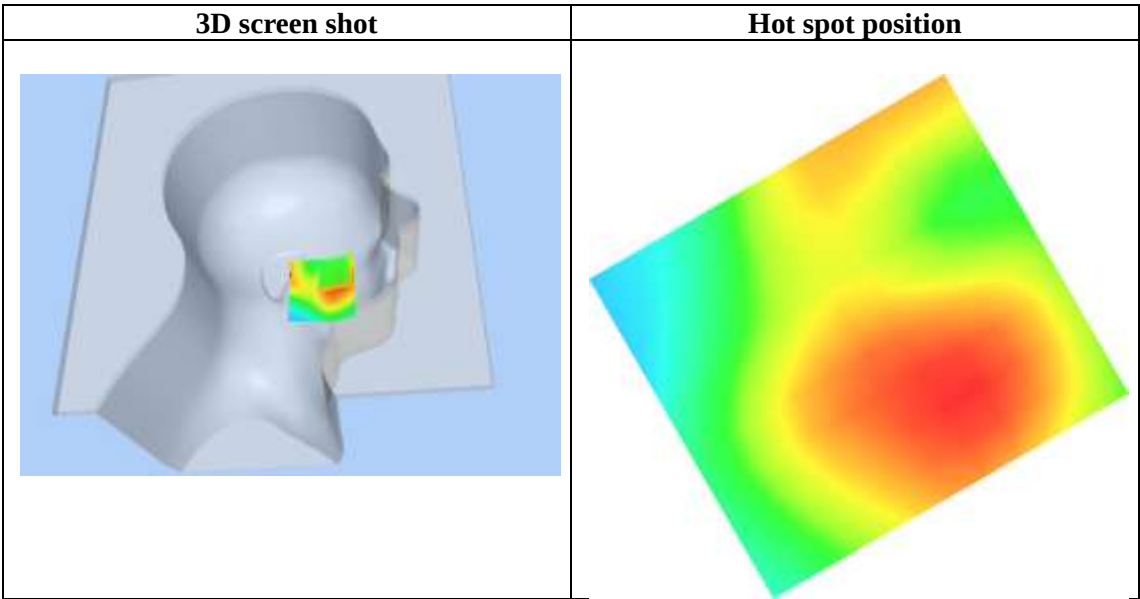
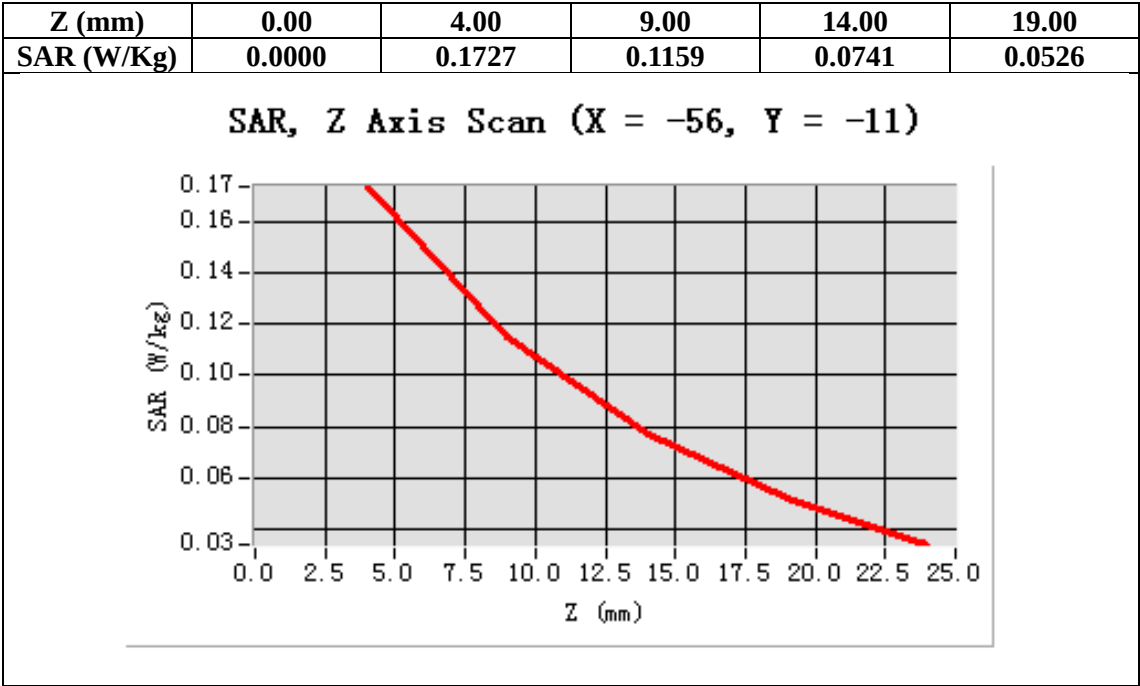
Configuration/PCS1900 Mid-Tilt-Right/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/PCS1900 Mid-Tilt-Right/Zoom Scan: Measurement grid: dx=8mm, dy=8mm, dz=5mm;

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	CDMA (Crest factor: 1.0)



Maximum location: X=-56.00, Y=-11.00

SAR 10g (W/Kg)	0.104096
SAR 1g (W/Kg)	0.164521



Test Laboratory: AGC Lab
WCDMA Band II Low-Body-Towards Grounds (RMC 12.2kbps)
DUT: Mobile Phone; **Type:** QUE 5.5

Date: July 10,2014

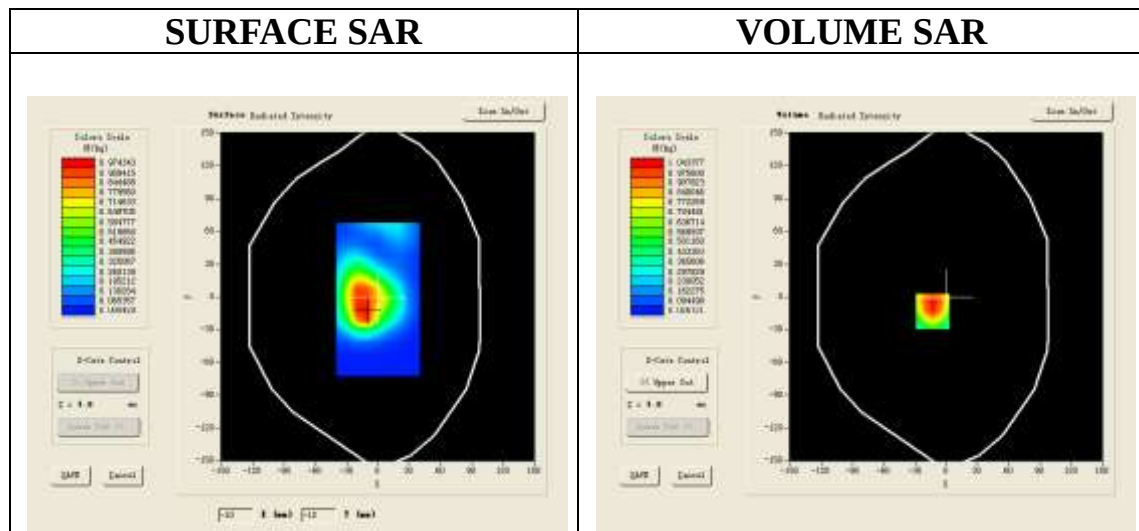
Communication System: UMTS; Communication System Band: Band II UTRA/FDD ;Duty Cycle:1:1; Conv.F=4.45
Frequency: 1985.2MHz; Medium parameters used: $f = 1900$ MHz; $\sigma = 1.50$ mho/m; $\epsilon_r = 53.26$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section
Ambient temperature (°C):21, Liquid temperature (°C):21

SATIMO Configuration:

- Probe: SSE5; Calibrated: 01/12/2014; Serial No.:SN 22/12 EP159
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: Flat Phantom; Type: Elliptical Phantom
- Measurement SW: Open SAR V4_02_01

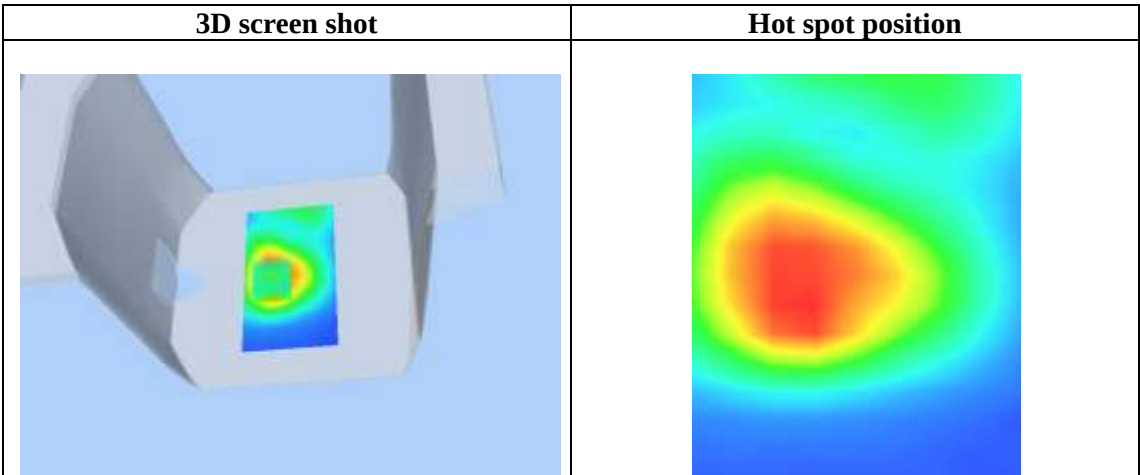
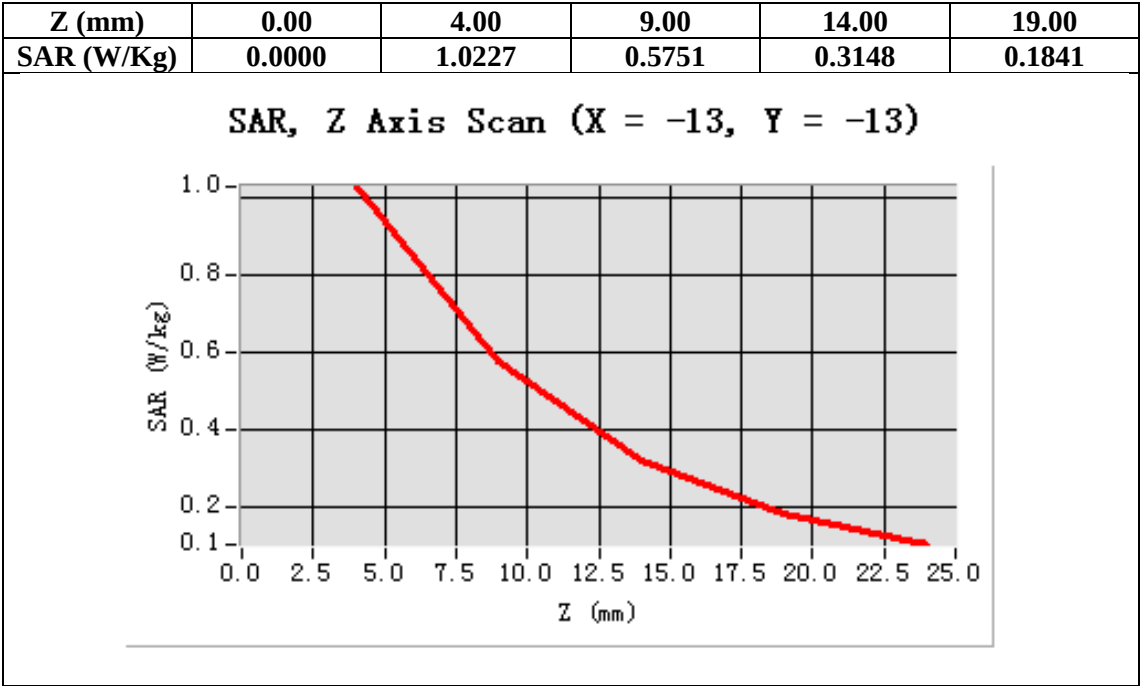
Configuration/ WCDMA band II Low -Body-back/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/ WCDMA band II Low -Body-back/Zoom Scan: Measurement grid: dx=8mm, dy=8mm, dz=5mm;

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



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

SAR 10g (W/Kg)	0.553210
SAR 1g (W/Kg)	0.994529



Test Laboratory: AGC Lab
WCDMA Band II Mid-Body-Towards Grounds (RMC 12.2kbps)
DUT: Mobile Phone; **Type:** QUE 5.5

Date: July 10,2014

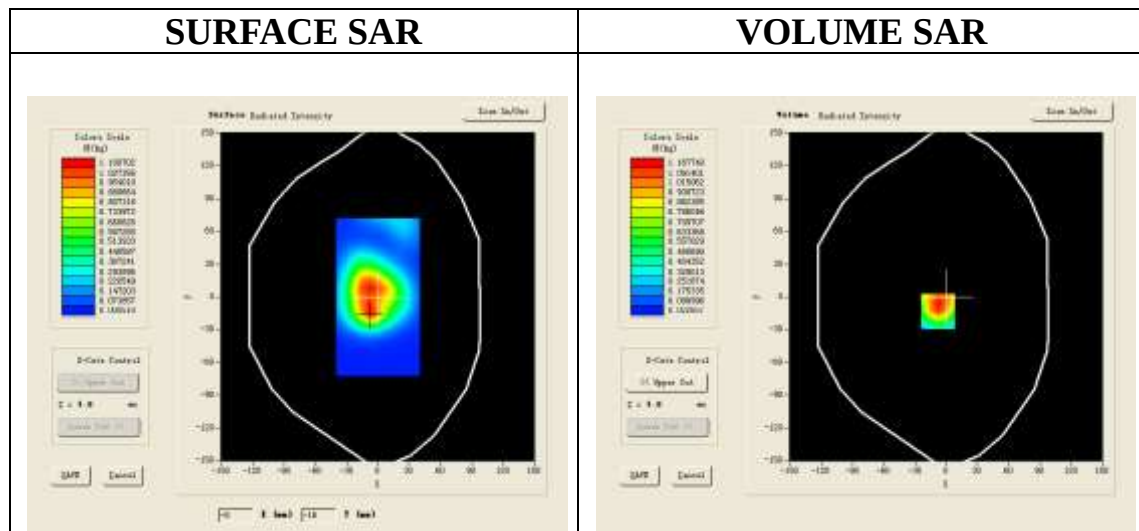
Communication System: UMTS; Communication System Band: Band II UTRA/FDD ;Duty Cycle:1:1; Conv.F=4.45
Frequency: 1880 MHz; Medium parameters used: $f = 1900$ MHz; $\sigma = 1.48$ mho/m; $\epsilon_r = 52.96$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section
Ambient temperature (°C):21, Liquid temperature (°C):21

SATIMO Configuration:

- Probe: SSE5; Calibrated: 01/12/2014; Serial No.:SN 22/12 EP159
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: Flat Phantom; Type: Elliptical Phantom
- Measurement SW: OpenSAR V4_02_01

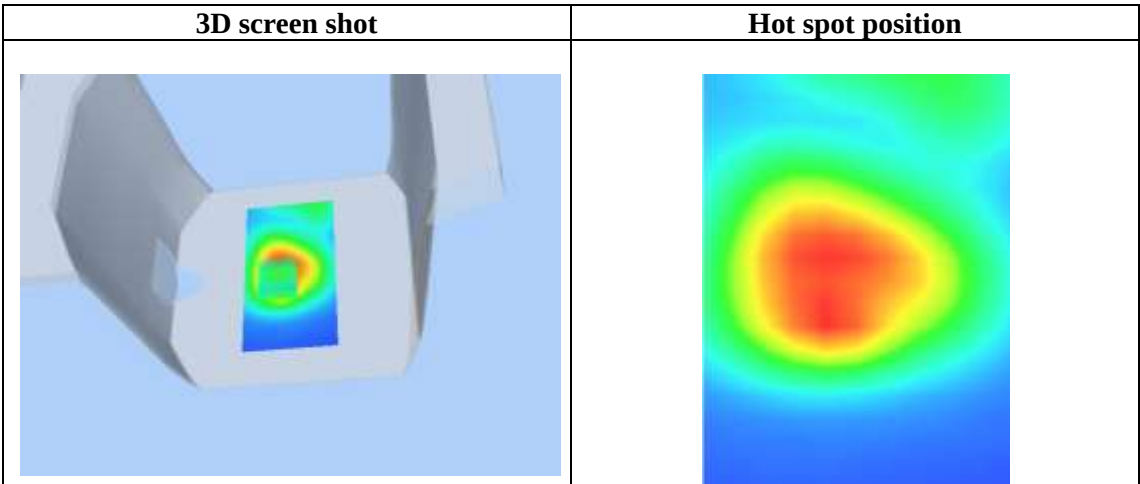
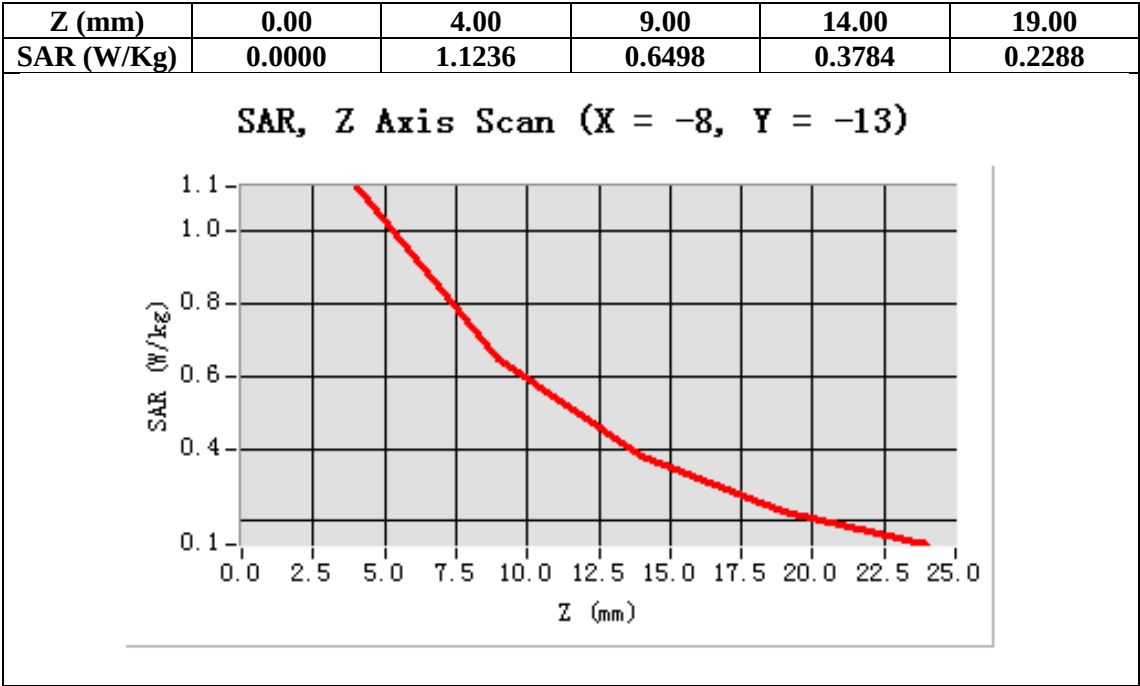
Configuration/ WCDMA band II Mid-Body-back/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/ WCDMA band II Mid-Body-back/Zoom Scan: Measurement grid: dx=8mm, dy=8mm, dz=5mm;

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 II
Channels	Middle
Signal	CDMA (Crest factor: 1.0)



Maximum location: X=-8.00, Y=-13.00

SAR 10g (W/Kg)	0.625731
SAR 1g (W/Kg)	1.156319



Test Laboratory: AGC Lab
WCDMA Band II High-Body-Towards Grounds (RMC 12.2kbps)
DUT: Mobile Phone; **Type:** QUE 5.5

Date: July 10,2014

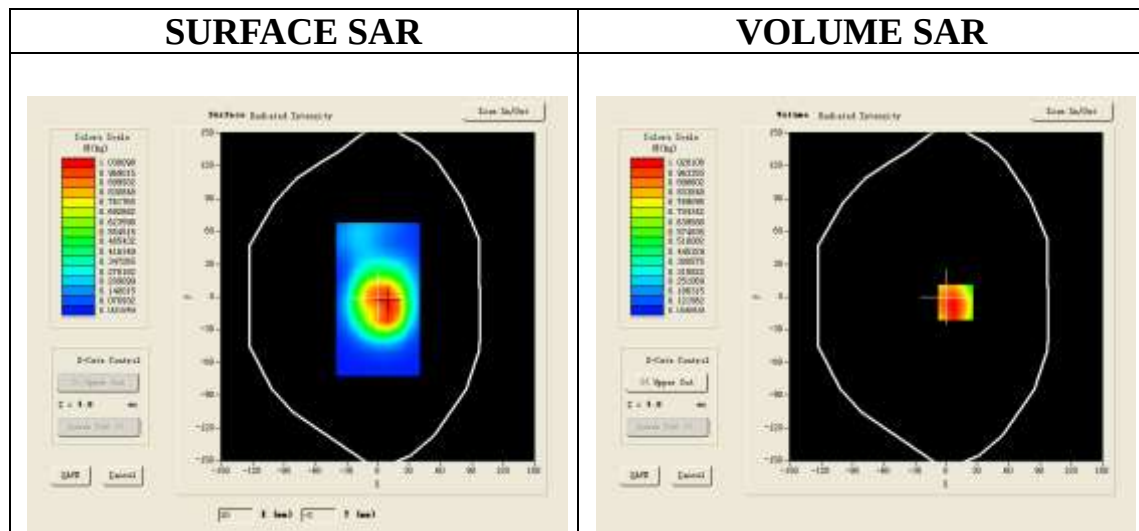
Communication System: UMTS; Communication System Band: Band II UTRA/FDD ;Duty Cycle:1:1; Conv.F=4.45
Frequency:1907.6 MHz; Medium parameters used: $f = 1900$ MHz; $\sigma = 1.53$ mho/m; $\epsilon_r = 53.00$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section
Ambient temperature (°C):21, Liquid temperature (°C):21

SATIMO Configuration:

- Probe: SSE5; Calibrated: 01/12/2014; Serial No.:SN 22/12 EP159
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: Flat Phantom; Type: Elliptical Phantom
- Measurement SW: OpenSAR V4_02_01

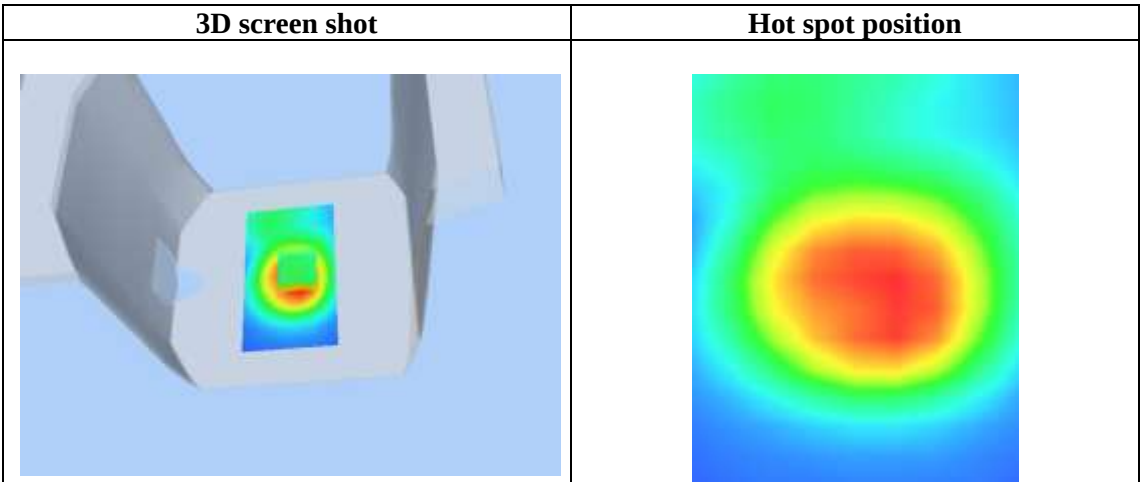
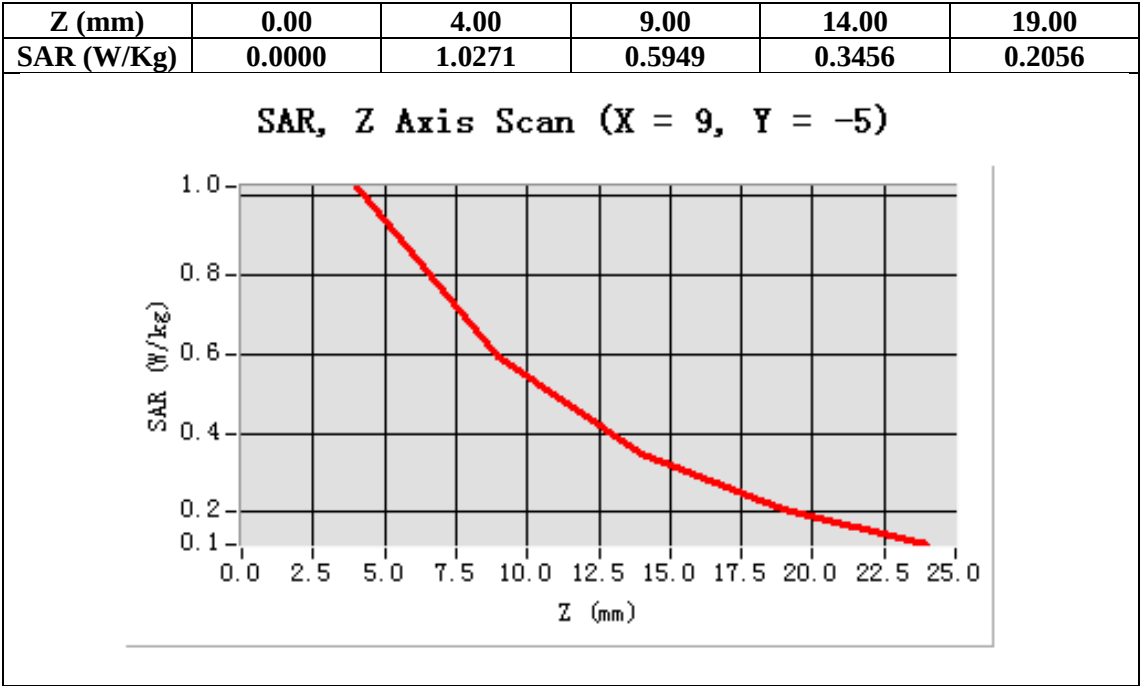
Configuration/ WCDMA band II High -Body-back/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/ WCDMA band II High -Body-back/Zoom Scan: Measurement grid: dx=8mm, dy=8mm, dz=5m;

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	High
Signal	CDMA (Crest factor: 1.0)



Maximum location: X=9.00, Y=-5.00

SAR 10g (W/Kg)	0.585085
SAR 1g (W/Kg)	0.994317



Test Laboratory: AGC Lab
WCDMA Band II Mid-Body-Towards Phantom (RMC 12.2kbps)
DUT: Mobile Phone; Type: QUE 5.5

Date: July 10,2014

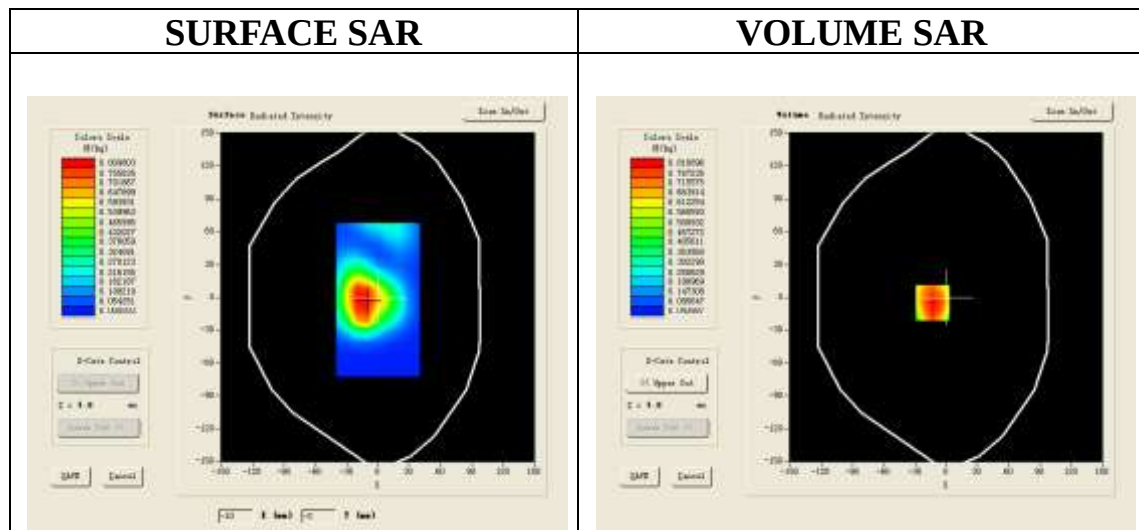
Communication System: UMTS; Communication System Band: Band II UTRA/FDD ;Duty Cycle:1:1; Conv.F=4.45
Frequency: 1880 MHz; Medium parameters used: $f = 1900$ MHz; $\sigma = 1.48$ mho/m; $\epsilon_r = 52.96$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section
Ambient temperature (°C):21, Liquid temperature (°C):21

SATIMO Configuration:

- Probe: SSE5; Calibrated: 01/12/2014; Serial No.:SN 22/12 EP159
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: Flat Phantom; Type: Elliptical Phantom
- Measurement SW: Open SAR V4_02_01

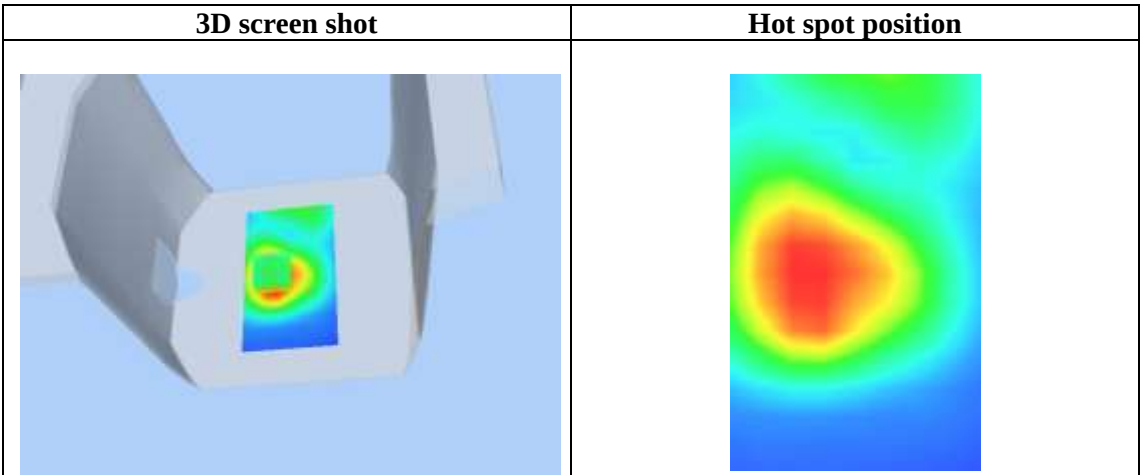
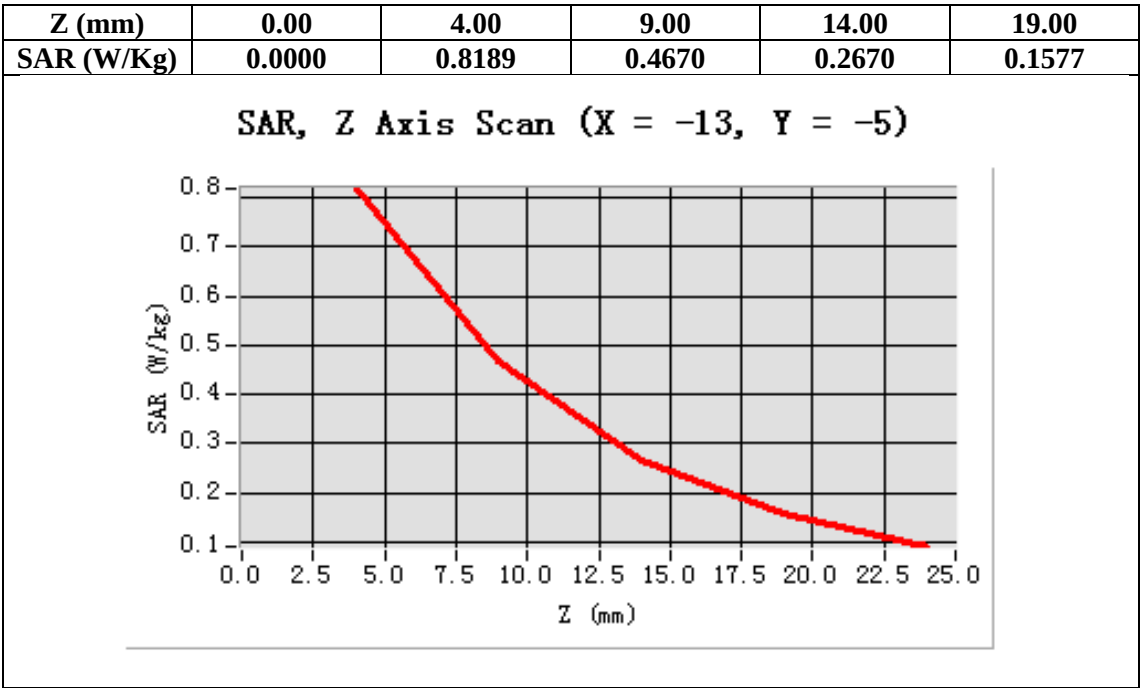
Configuration/ WCDMA band II Mid-Body-Front/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/ WCDMA band II Mid-Body-Front/Zoom Scan: Measurement grid: dx=8mm, dy=8mm, dz=5mm;

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	CDMA (Crest factor: 1.0)



Maximum location: X=-13.00, Y=-5.00

SAR 10g (W/Kg)	0.455344
SAR 1g (W/Kg)	0.784148



Test Laboratory: AGC Lab

Date: July 10,2014

WCDMA Band V Mid-Touch-Left (RMC)

DUT: Mobile Phone; Type: QUE 5.5

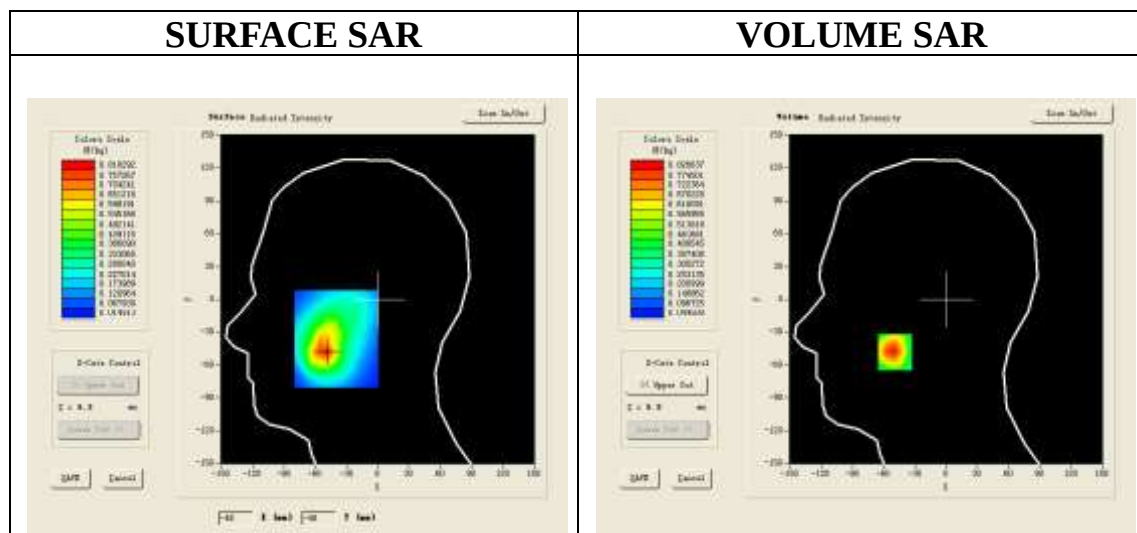
Communication System: UMTS; Communication System Band: BAND V UTRA/FDD ; Duty Cycle:1: 1; Conv.F=5.27
Frequency: 835 MHz; Medium parameters used: $f = 836.6$ MHz; $\sigma=0.89$ mho/m; $\epsilon_r=41.01$; $\rho= 1000$ kg/m³ ;
Phantom section: Left Section
Ambient temperature (°C): 21, Liquid temperature (°C): 21

SATIMO Configuration:

- Probe: SSE5; Calibrated: 01/12/2014; Serial No.:SN 22/12 EP159
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: Flat Phantom; Type: Elliptical Phantom
- Measurement SW: OpenSAR V4_02_01

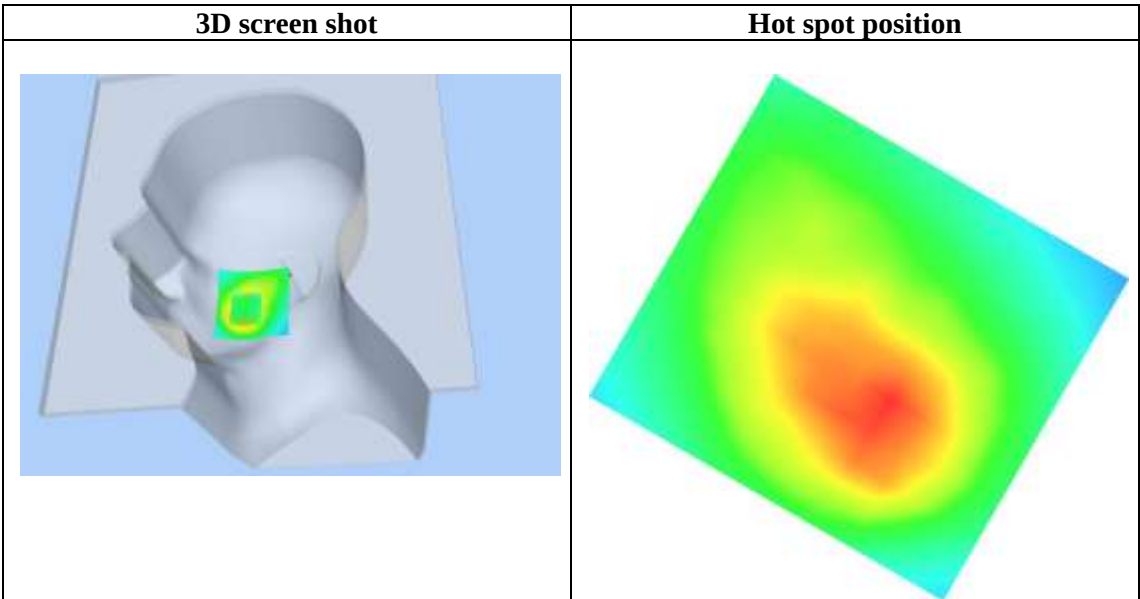
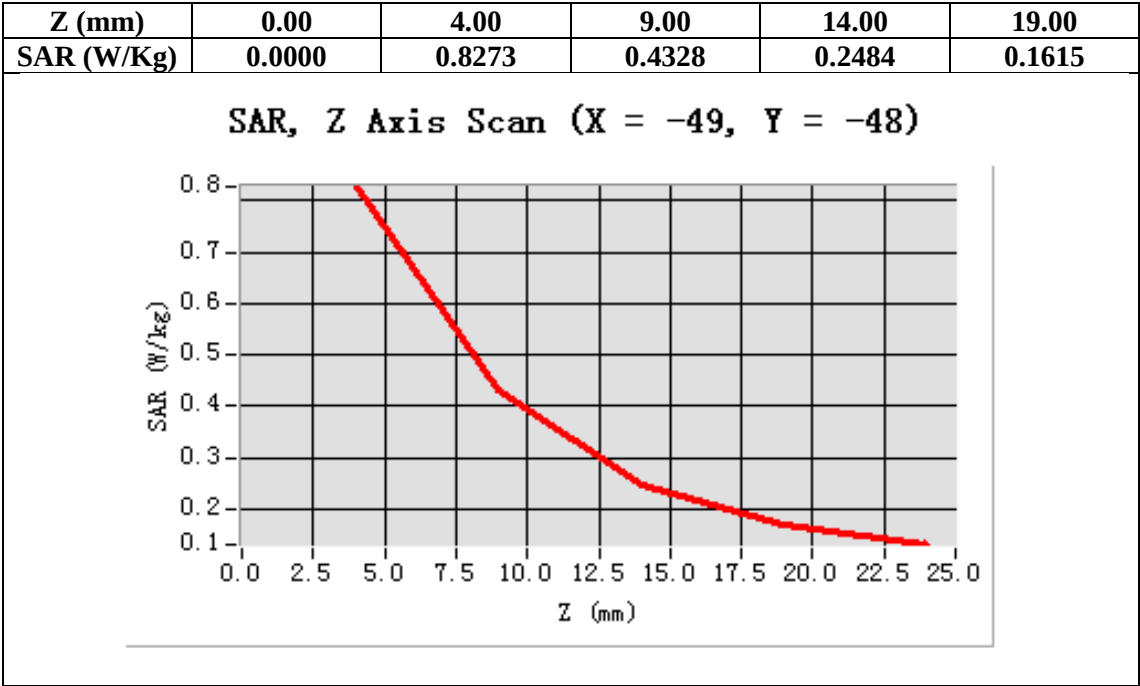
Configuration/ WCDMA Band V Mid-Touch-Left/Area Scan (6x8x1): Measurement grid: dx=8mm, dy=8mm
Configuration/ WCDMA Band V Mid-Touch-Left/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

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	CDMA (Crest factor: 1.0)



Maximum location: X=-49.00, Y=-48.00

SAR 10g (W/Kg)	0.433127
SAR 1g (W/Kg)	0.785095



Test Laboratory: AGC Lab

Date: July 10,2014

WCDMA Band V Mid-Tilt-Left (RMC)

DUT: Mobile Phone; Type: QUE 5.5

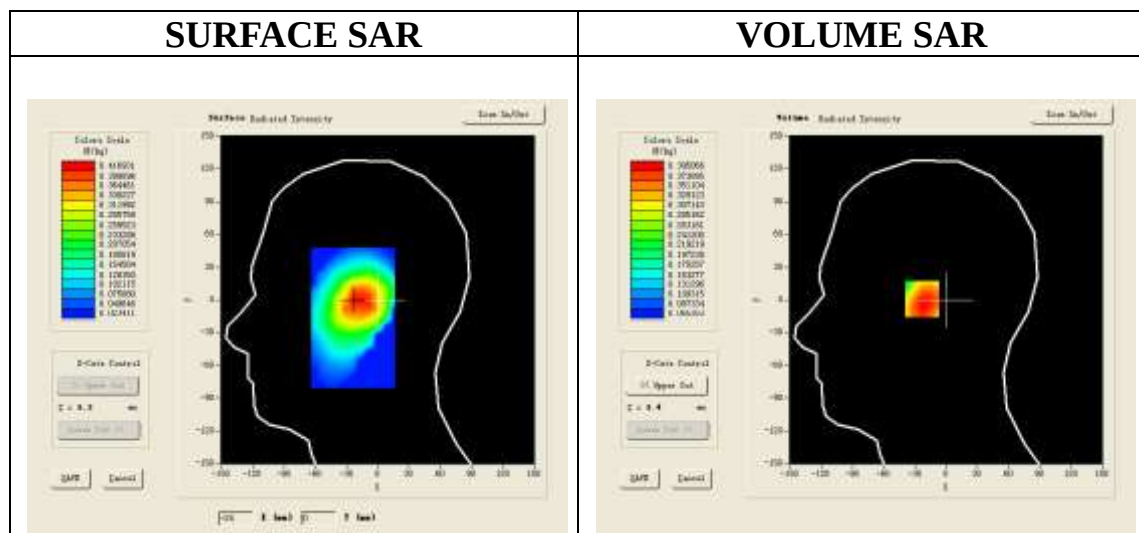
Communication System: UMTS; Communication System Band: BAND V UTRA/FDD ; Duty Cycle:1: 1; Conv.F=5.27
Frequency: 835 MHz; Medium parameters used: $f = 836.6\text{MHz}$; $\sigma=0.89\text{ mho/m}$; $\epsilon_r=41.01$; $\rho=1000\text{ kg/m}^3$;
Phantom section: Left Section
Ambient temperature ($^{\circ}\text{C}$): 21, Liquid temperature ($^{\circ}\text{C}$): 21

SATIMO Configuration:

- Probe: SSE5; Calibrated: 01/12/2014; Serial No.:SN 22/12 EP159
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: Flat Phantom; Type: Elliptical Phantom
- Measurement SW: OpenSAR V4_02_01

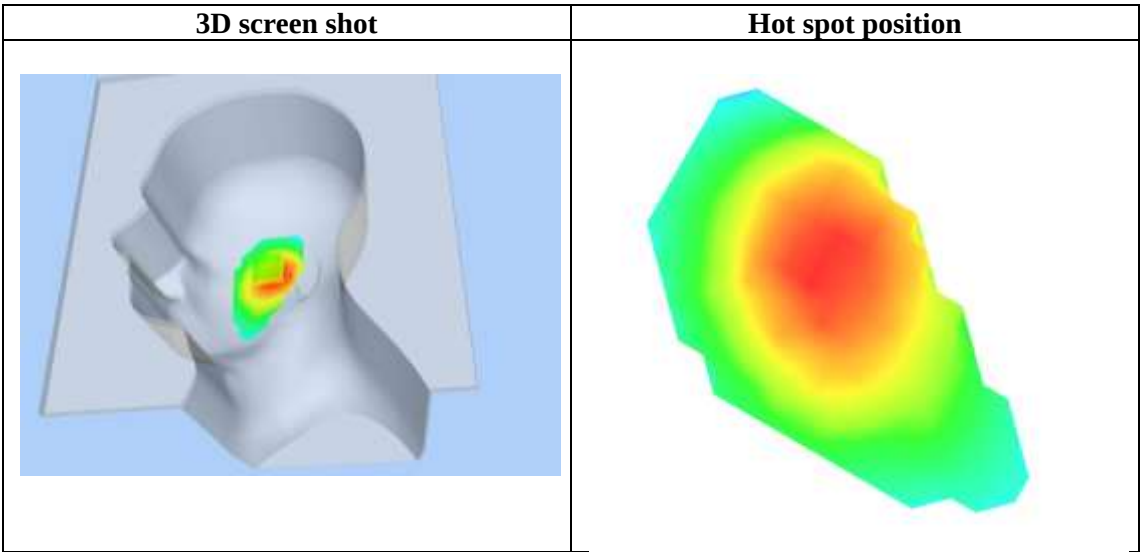
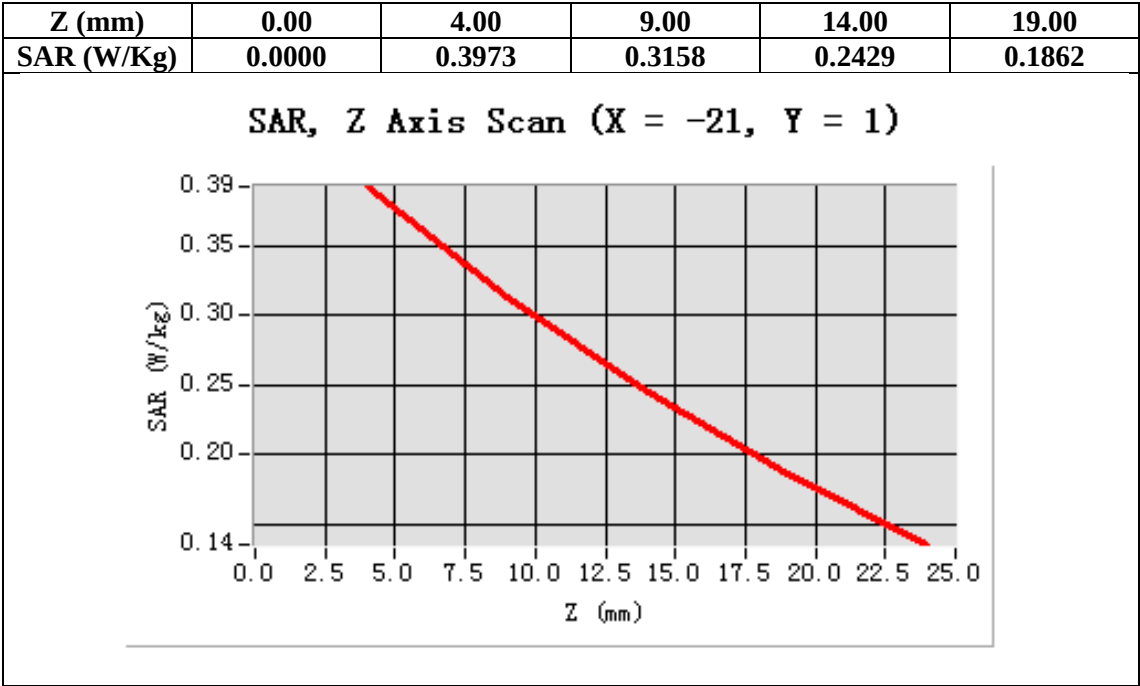
Configuration/ WCDMA Band V Mid-Tilt-Left/Area Scan (6x8x1): Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$
Configuration/ WCDMA Band V Mid-Tilt-Left/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$;

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	CDMA (Crest factor: 1.0)



Maximum location: X=-21.00, Y=1.00

SAR 10g (W/Kg)	0.282175
SAR 1g (W/Kg)	0.384083



Test Laboratory: AGC Lab

Date: July 10,2014

WCDMA Band V Mid- Touch-Right (RMC)

DUT: Mobile Phone; Type: QUE 5.5

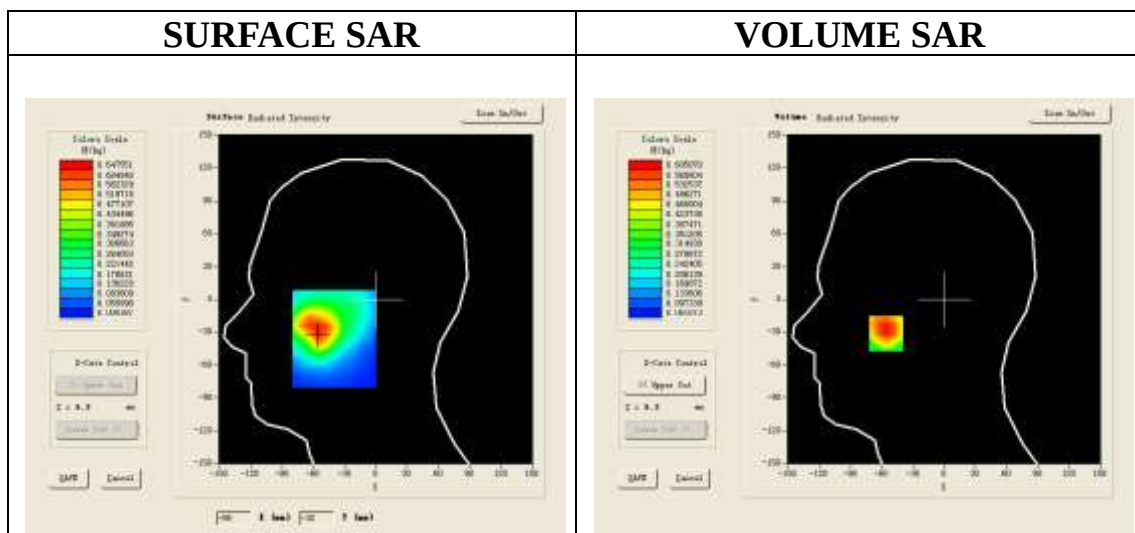
Communication System: UMTS; Communication System Band: BAND V UTRA/FDD ; Duty Cycle:1: 1; Conv.F=5.27
Frequency: 835 MHz; Medium parameters used: $f = 836.6$ MHz; $\sigma=0.89$ mho/m; $\epsilon_r=41.01$; $\rho= 1000$ kg/m³ ;
Phantom section: Right Section
Ambient temperature (°C): 21, Liquid temperature (°C): 21

SATIMO Configuration:

- Probe: SSE5; Calibrated: 01/12/2014; Serial No.:SN 22/12 EP159
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: Flat Phantom; Type: Elliptical Phantom
- Measurement SW: OpenSAR V4_02_01

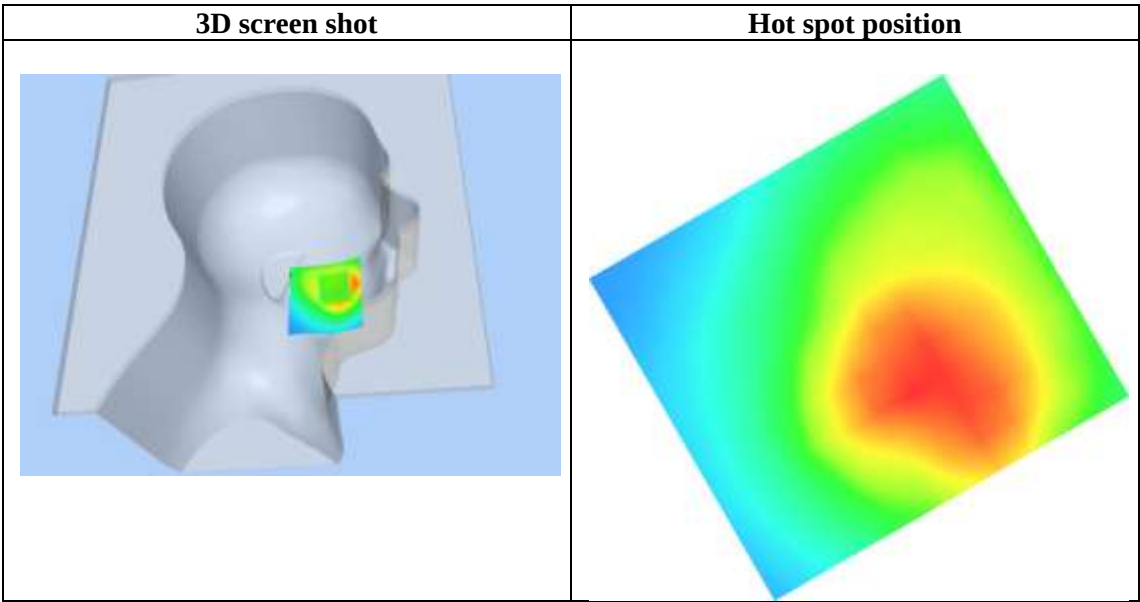
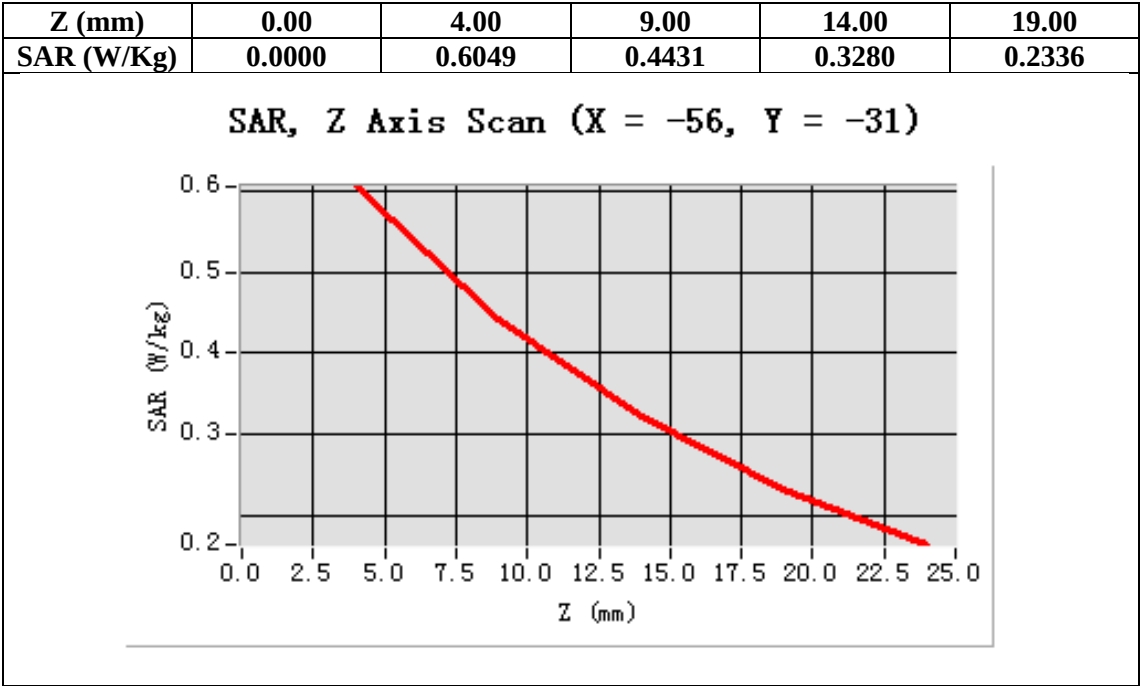
Configuration/ WCDMA Band V Mid-Touch-Right/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/ WCDMA Band V Mid-Touch-Right/Zoom Scan: Measurement grid: dx=8mm, dy=8mm, dz=5mm;

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	CDMA (Crest factor: 1.0)



Maximum location: X=-56.00, Y=-31.00

SAR 10g (W/Kg)	0.392518
SAR 1g (W/Kg)	0.585431



Test Laboratory: AGC Lab

Date: July 10,2014

WCDMA Band V Mid-Tilt-Right (RMC)

DUT: Mobile Phone; Type: QUE 5.5

Communication System: UMTS; Communication System Band: BAND V UTRA/FDD ; Duty Cycle:1: 1; Conv.F=5.27
Frequency: 835 MHz; Medium parameters used: $f = 836.6$ MHz; $\sigma=0.89$ mho/m; $\epsilon_r=41.01$; $\rho= 1000$ kg/m³ ;
Phantom section: Right Section
Ambient temperature (°C): 21, Liquid temperature (°C): 21

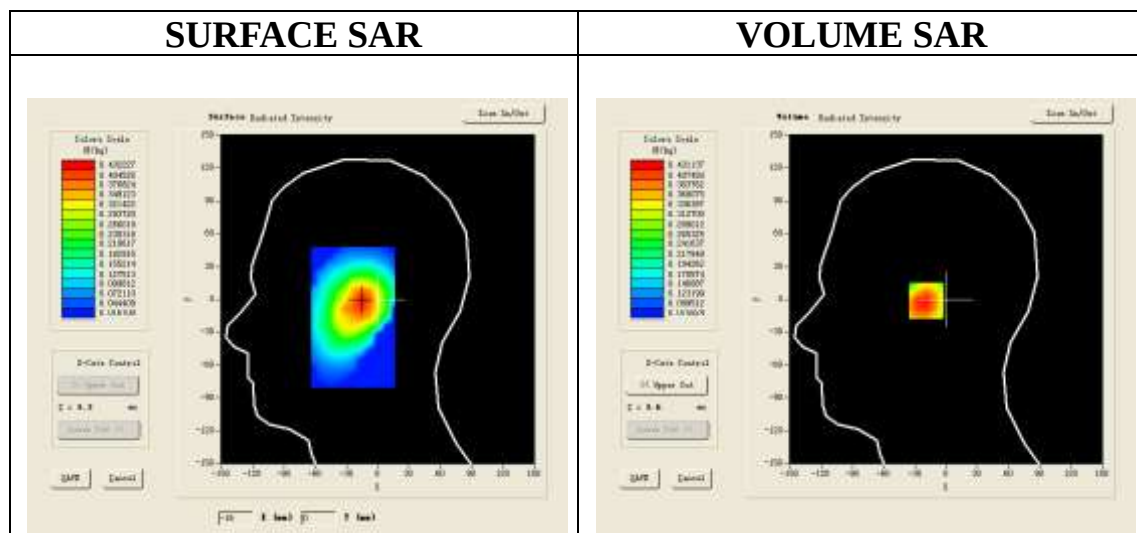
SATIMO Configuration:

- Probe: SSE5; Calibrated: 01/12/2014; Serial No.:SN 22/12 EP159
- 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

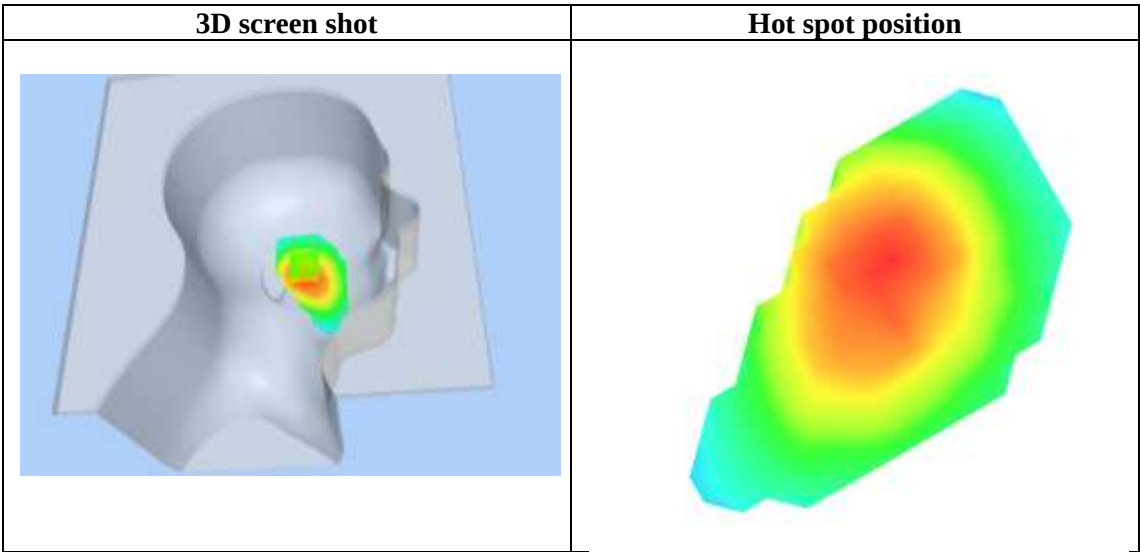
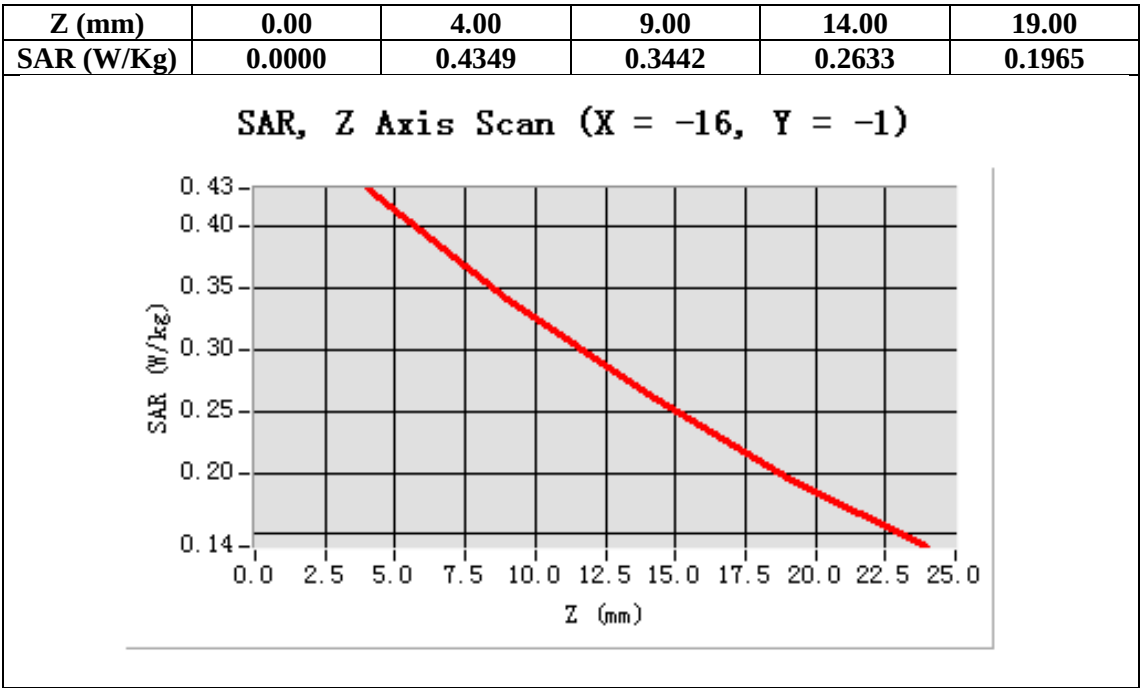
Configuration/ WCDMA Band V Mid-Tilt-Right/Zoom Scan: Measurement grid: dx=8mm, dy=8mm, dz=5mm;

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	CDMA (Crest factor: 1.0)



Maximum location: X=-16.00, Y=-1.00

SAR 10g (W/Kg)	0.291279
SAR 1g (W/Kg)	0.414316



Test Laboratory: AGC Lab

Date: July 10,2014

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

DUT: Mobile Phone; Type: QUE 5.5

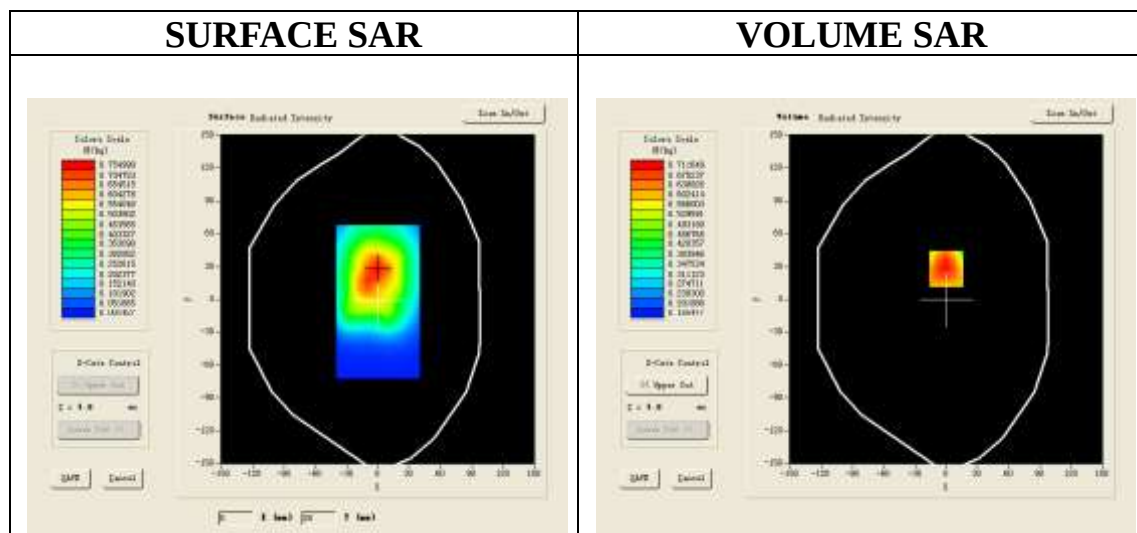
Communication System: UMTS; Communication System Band: BAND V UTRA/FDD; Duty Cycle:1: 1; Conv.F=5.48
Frequency: 826.4 MHz; Medium parameters used: $f = 836.6$ MHz; $\sigma = 0.95$ mho/m; $\epsilon_r = 55.48$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section
Ambient temperature (°C):21, Liquid temperature (°C):21

SATIMO Configuration:

- Probe: SSE5; Calibrated: 01/12/2014; Serial No. :SN 22/12 EP159
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: Flat Phantom; Type: Elliptical Phantom
- Measurement SW: Open SAR V4_02_01

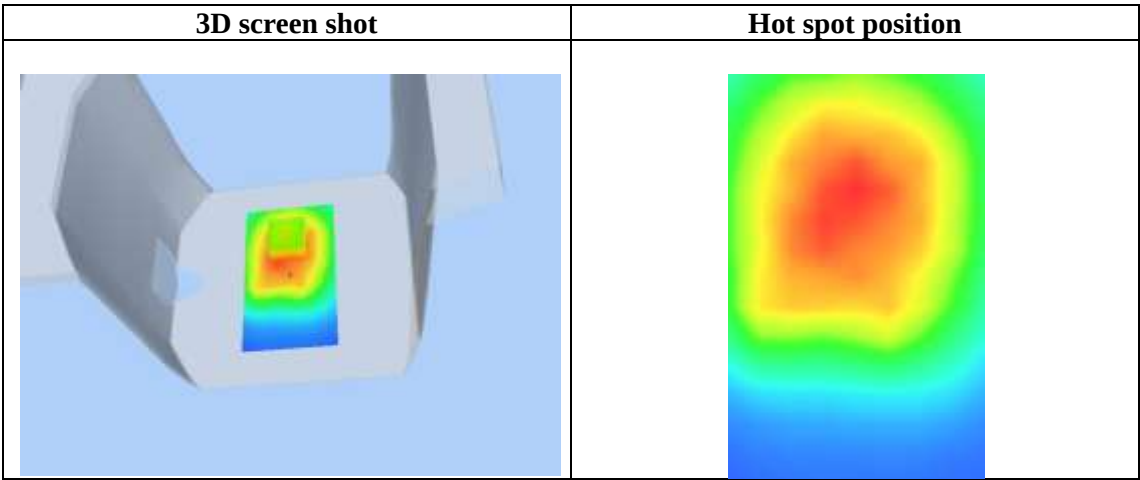
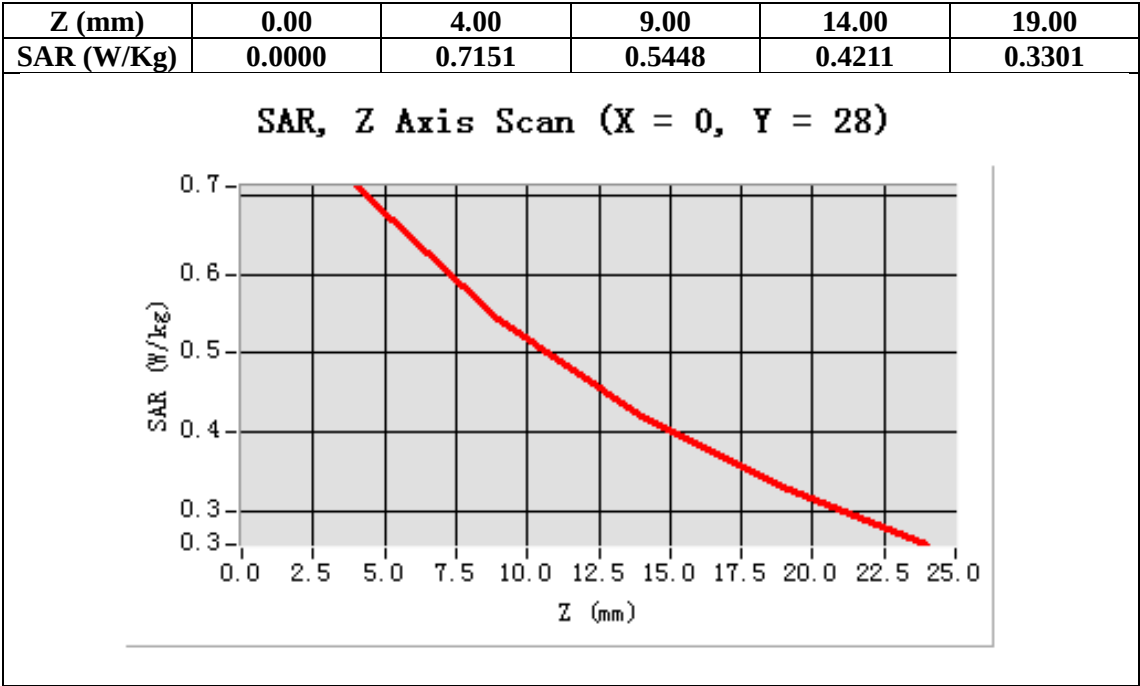
Configuration/ WCDMA Band V Low -Body-Back/Area Scan (6x8x1): Measurement grid: dx=8mm, dy=8mm
Configuration/ WCDMA Band V Low -Body-Back/Zoom Scan (5x5x7)/Cube 0: Measurement grid:
dx=8mm,dy=8mm, dz=5mm;

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



Maximum location: X=0.00, Y=28.00

SAR 10g (W/Kg)	0.543143
SAR 1g (W/Kg)	0.746421



Test Laboratory: AGC Lab

Date: July 10,2014

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

DUT: Mobile Phone; Type: QUE 5.5

Communication System: UMTS; Communication System Band: BAND V UTRA/FDD; Duty Cycle:1: 1; Conv.F=5.48
Frequency: 835 MHz; Medium parameters used: $f = 836.6$ MHz; $\sigma=0.96$ mho/m; $\epsilon_r=55.19$; $\rho= 1000$ kg/m³ ;
Phantom section: Flat Section
Ambient temperature (°C):21, Liquid temperature (°C):21

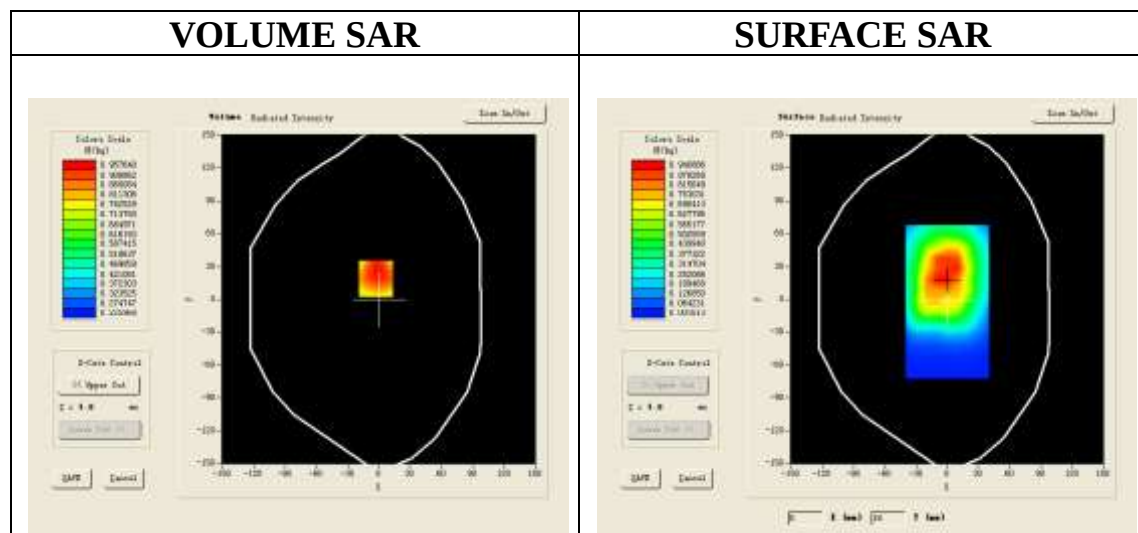
SATIMO Configuration:

- Probe: SSE5; Calibrated: 01/12/2014; Serial No.:SN 22/12 EP159
- 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

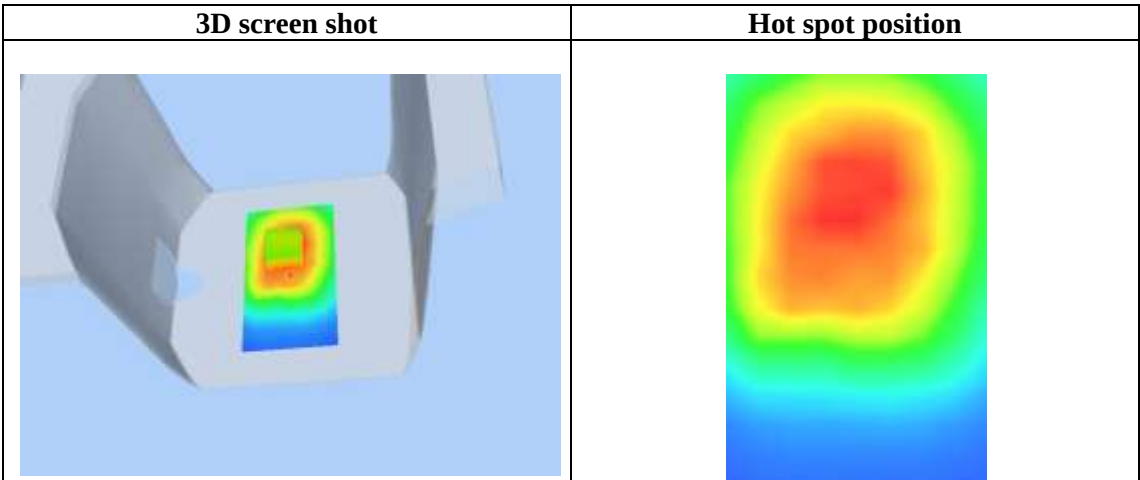
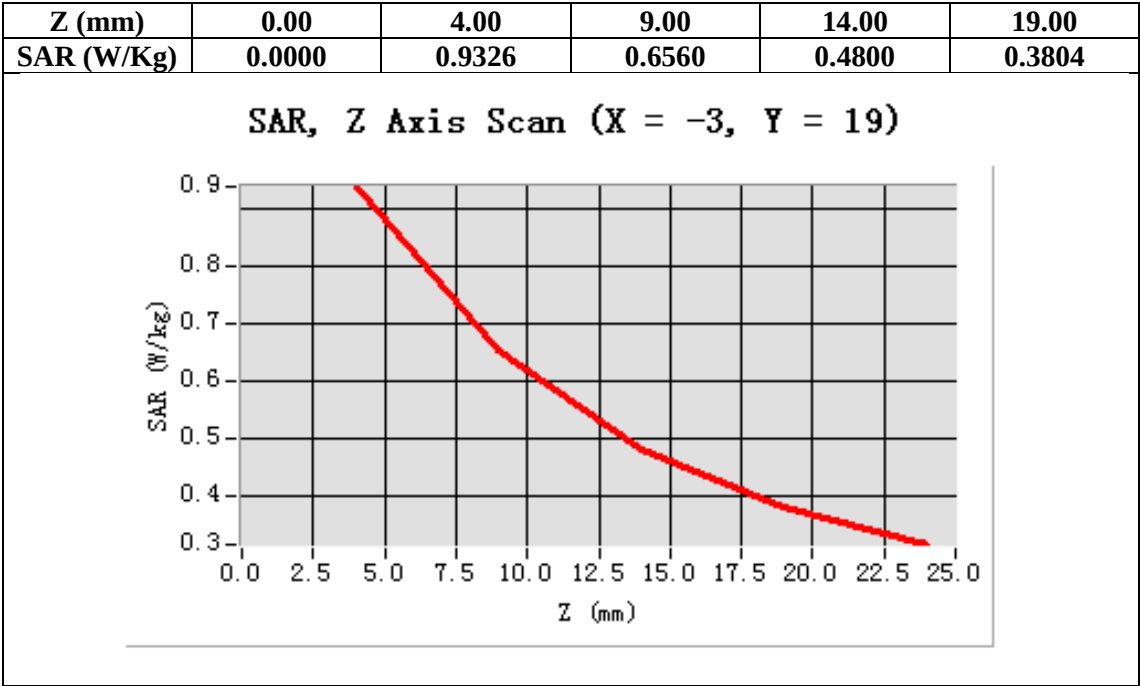
Configuration/ WCDMA Band V Mid-Body-Back/Zoom Scan (5x5x7)/Cube 0: Measurement grid:
dx=8mm,dy=8mm, dz=5mm;

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



Maximum location: X=-3.00, Y=19.00

SAR 10g (W/Kg)	0.663412
SAR 1g (W/Kg)	0.936752



Test Laboratory: AGC Lab

Date: July 10,2014

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

DUT: Mobile Phone; Type: QUE 5.5

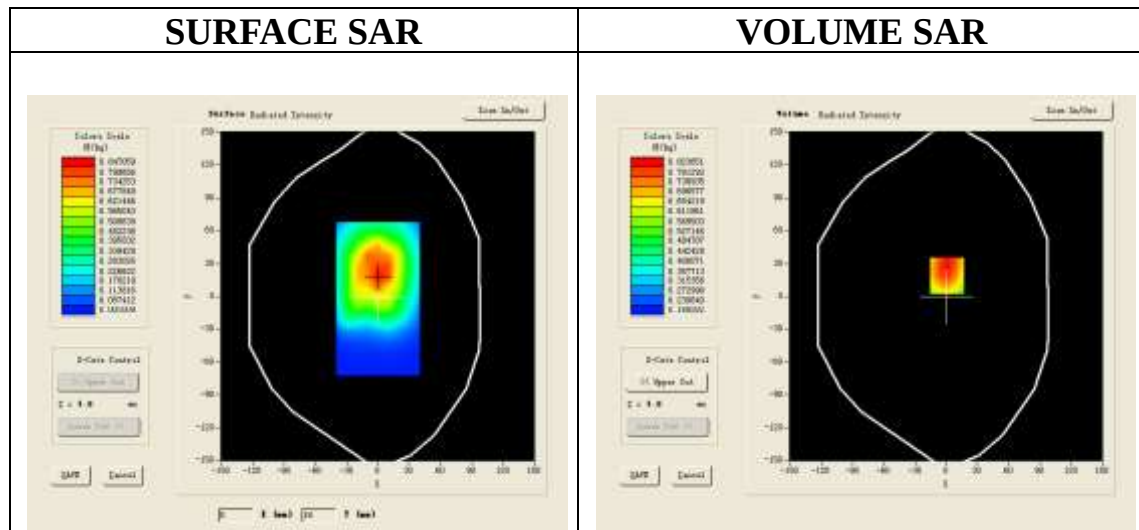
Communication System: UMTS; Communication System Band: BAND V UTRA/FDD; Duty Cycle:1: 1; Conv.F=5.48
Frequency: 846.6 MHz; Medium parameters used: $f = 836.6$ MHz; $\sigma = 0.97$ mho/m; $\epsilon_r = 52.67$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section
Ambient temperature (°C):21, Liquid temperature (°C):21

SATIMO Configuration:

- Probe: SSE5; Calibrated: 01/12/2014; Serial No.:SN 22/12 EP159
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: Flat Phantom; Type: Elliptical Phantom
- Measurement SW: OpenSAR V4_02_01

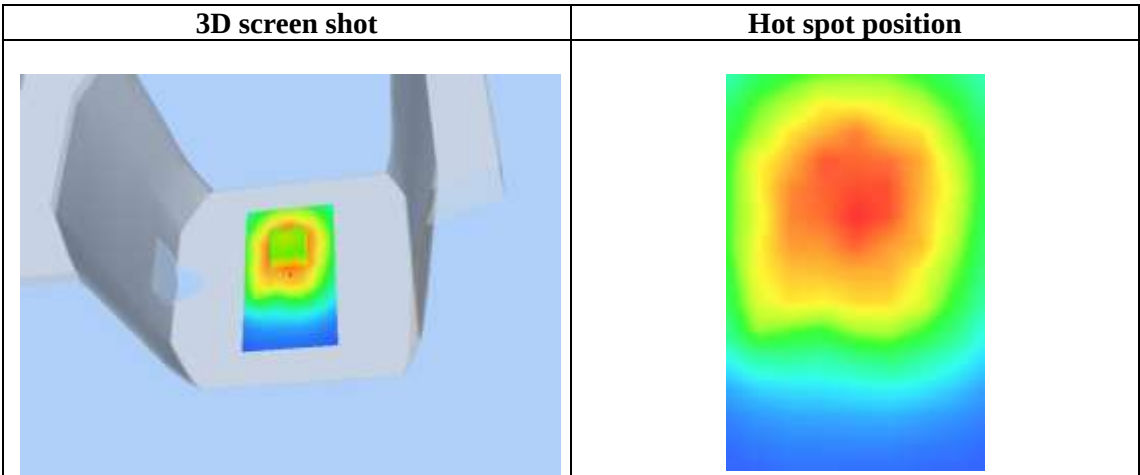
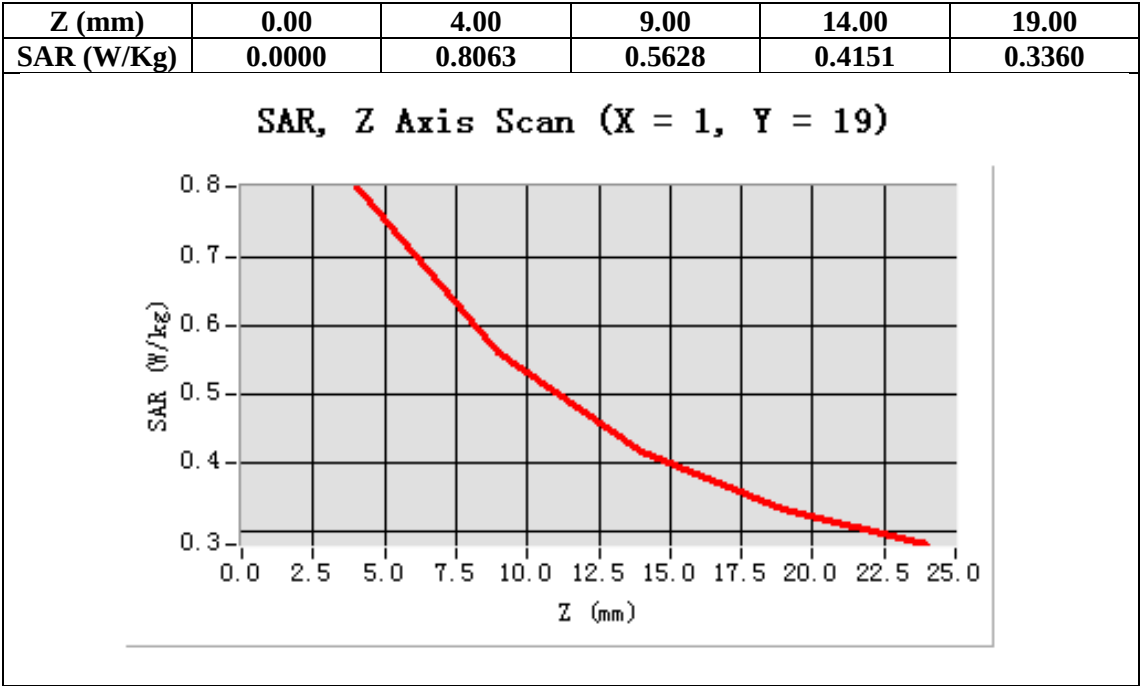
Configuration/ WCDMA Band V High -Body-Back/Area Scan (6x8x1): Measurement grid: dx=8mm, dy=8mm
Configuration/ WCDMA Band V High -Body-Back/Zoom Scan (5x5x7)/Cube 0: Measurement grid:
dx=8mm,dy=8mm, dz=5mm;

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



Maximum location: X=1.00, Y=19.00

SAR 10g (W/Kg)	0.613417
SAR 1g (W/Kg)	0.863482



Test Laboratory: AGC Lab

Date: July 10,2014

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

DUT: Mobile Phone; Type: QUE 5.5

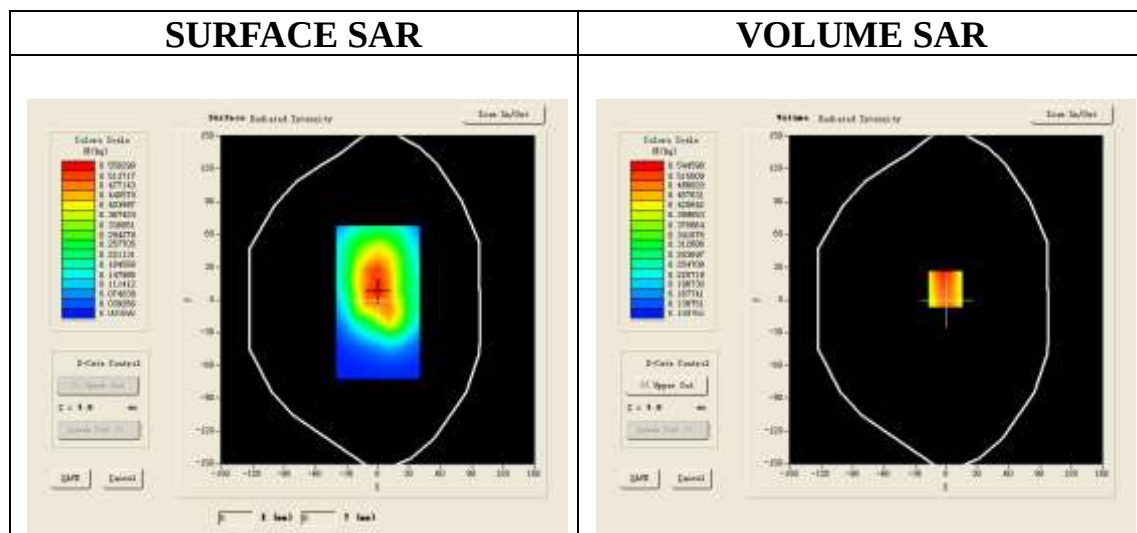
Communication System: UMTS; Communication System Band: BAND V UTRA/FDD ; Duty Cycle:1: 1; Conv.F=5.48
Frequency: 835 MHz; Medium parameters used: $f = 836.6$ MHz; $\sigma=0.96$ mho/m; $\epsilon_r =55.19$; $\rho= 1000\text{kg/m}^3$;
Phantom section: Flat Section
Ambient temperature ($^{\circ}\text{C}$):21, Liquid temperature ($^{\circ}\text{C}$):21

SATIMO Configuration:

- Probe: SSE5; Calibrated: 01/12/2014; Serial No.:SN 22/12 EP159
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: Flat Phantom; Type: Elliptical Phantom
- Measurement SW: OpenSAR V4_02_01

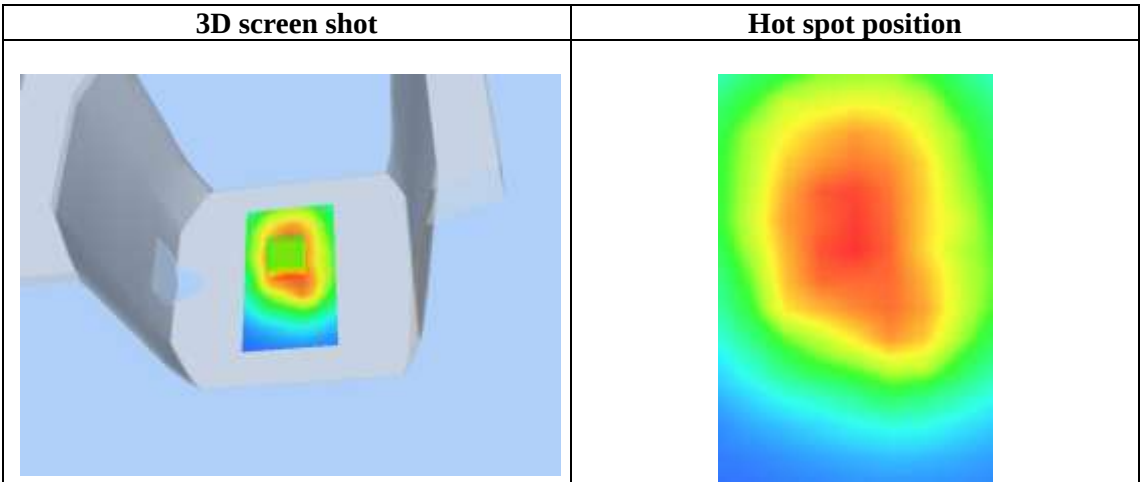
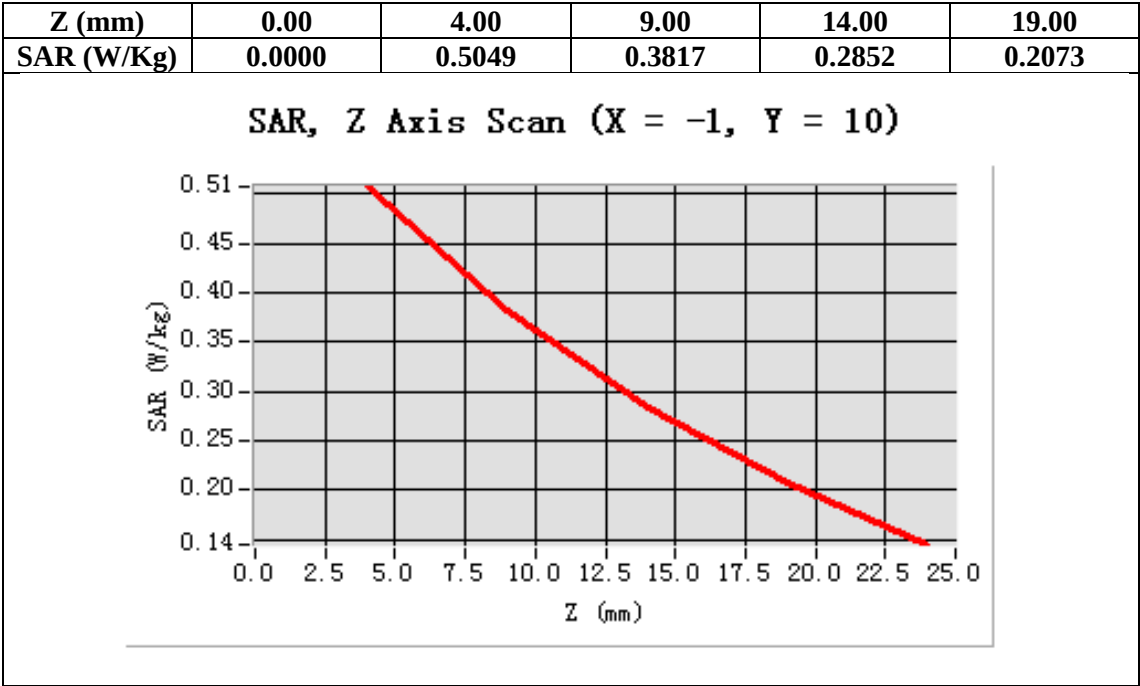
Configuration/ WCDMA Band V Mid-Body-Front/Area Scan (6x8x1): Measurement grid: dx=8mm, dy=8mm
Configuration/ WCDMA Band V Mid-Body-Front/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm;

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



Maximum location: X=-1.00, Y=10.00

SAR 10g (W/Kg)	0.385087
SAR 1g (W/Kg)	0.556243



Test Laboratory: AGC Lab
WCDMA Band IV Mid-Touch-Left (RMC)
DUT: Mobile Phone; Type: QUE 5.5

Date: July 10,2014

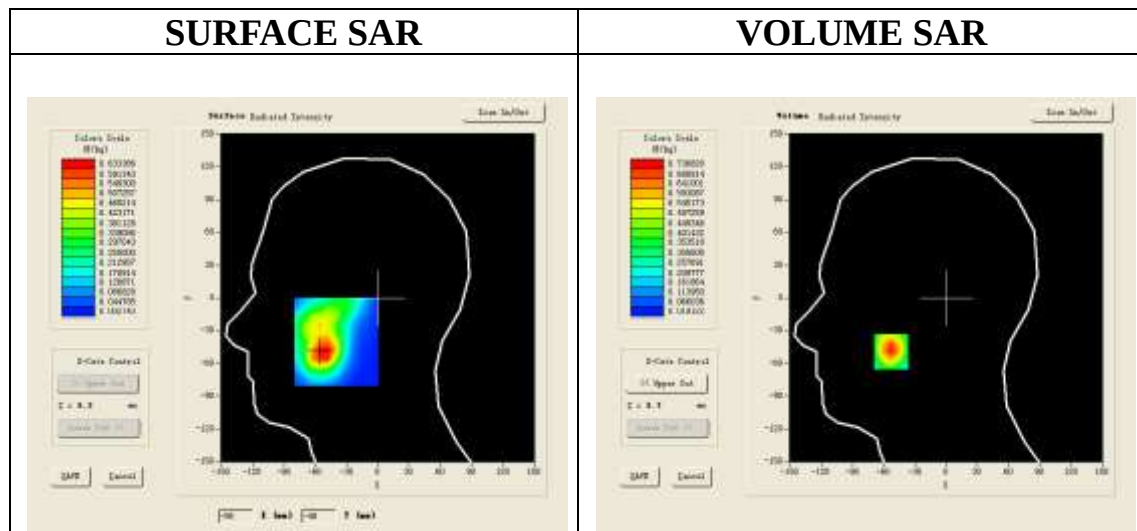
Communication System: UMTS; Communication System Band: BAND IV UTRA/FDD ; Duty Cycle:1: 1; Conv F=4.58
Frequency: 1700 MHz; Medium parameters used: $f = 1732.6$ MHz; $\sigma = 1.40$ mho/m; $\epsilon_r = 39.45$; $\rho = 1000$ kg/m³ ;
Phantom section: Left Section
Ambient temperature (°C): 21, Liquid temperature (°C): 21

SATIMO Configuration:

- Probe: SSE5; Calibrated: 01/12/2014; Serial No.:SN 22/12 EP159
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: Flat Phantom; Type: Elliptical Phantom
- Measurement SW: OpenSAR V4_02_01

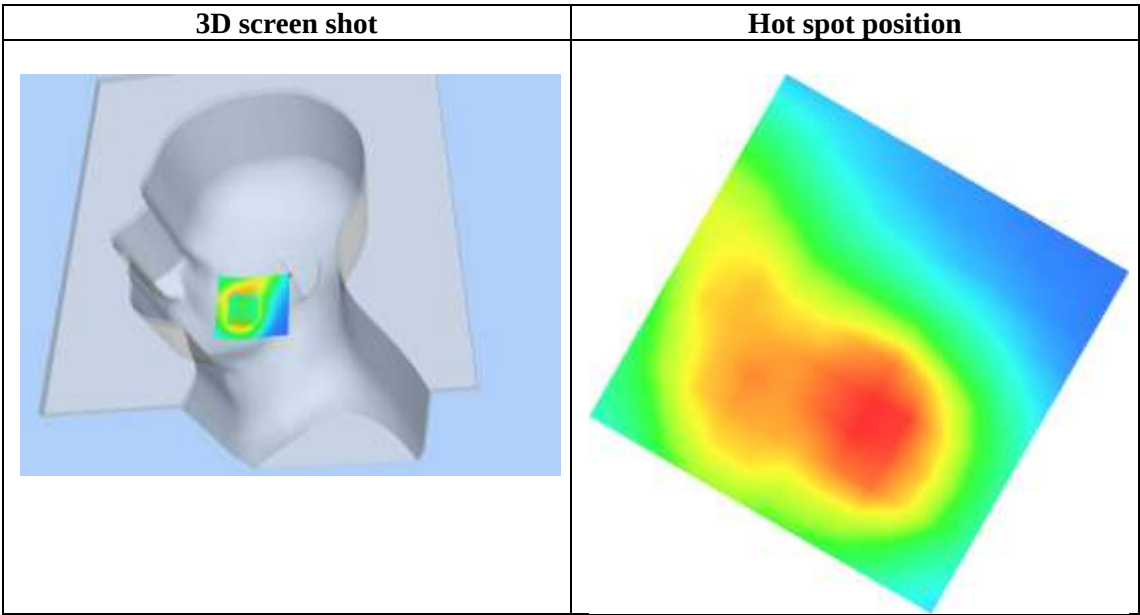
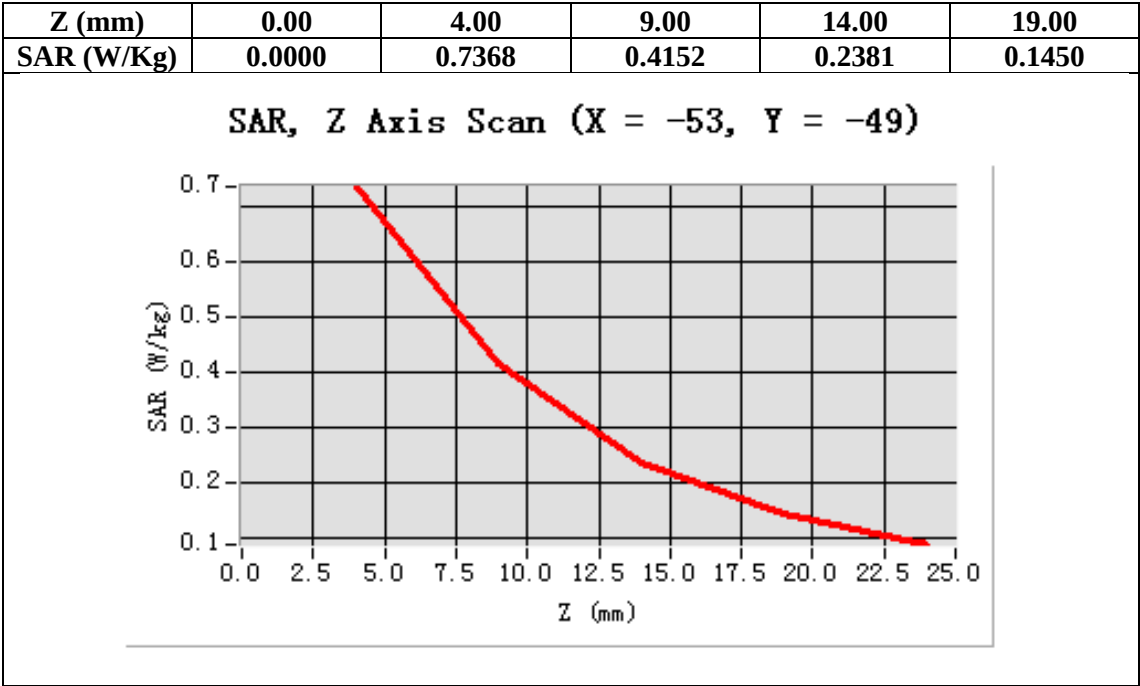
Configuration/ WCDMA Band IV Mid-Touch-Left/Area Scan (6x8x1): Measurement grid: dx=8mm, dy=8mm
Configuration/ WCDMA Band IV Mid-Touch-Left/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

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 IV
Channels	Middle
Signal	CDMA (Crest factor: 1.0)



Maximum location: X=-53.00, Y=-49.00

SAR 10g (W/Kg)	0.374216
SAR 1g (W/Kg)	0.685407



Test Laboratory: AGC Lab
WCDMA Band IV Mid-Tilt-Left (RMC)
DUT: Mobile Phone; Type: QUE 5.5

Date: July 10,2014

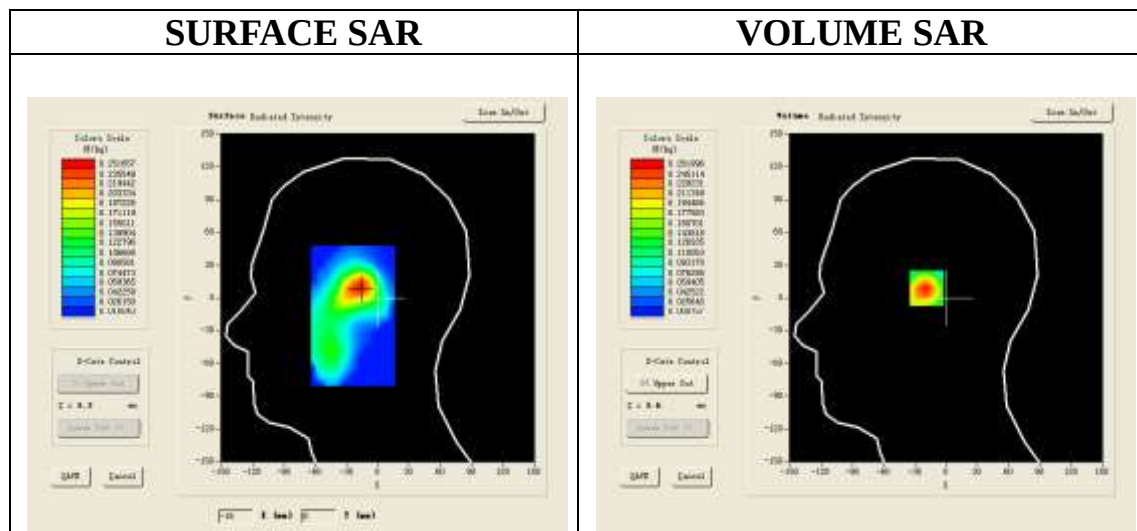
Communication System: UMTS; Communication System Band: BAND IV UTRA/FDD ; Duty Cycle:1: 1; Conv.F=4.58
Frequency: 1700 MHz; Medium parameters used: $f = 1732.6$ MHz; $\sigma = 1.40$ mho/m; $\epsilon_r = 39.45$; $\rho = 1000$ kg/m³ ;
Phantom section: Left Section
Ambient temperature (°C): 21, Liquid temperature (°C): 21

SATIMO Configuration:

- Probe: SSE5; Calibrated: 01/12/2014; Serial No.:SN 22/12 EP159
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: Flat Phantom; Type: Elliptical Phantom
- Measurement SW: Open SAR V4_02_01

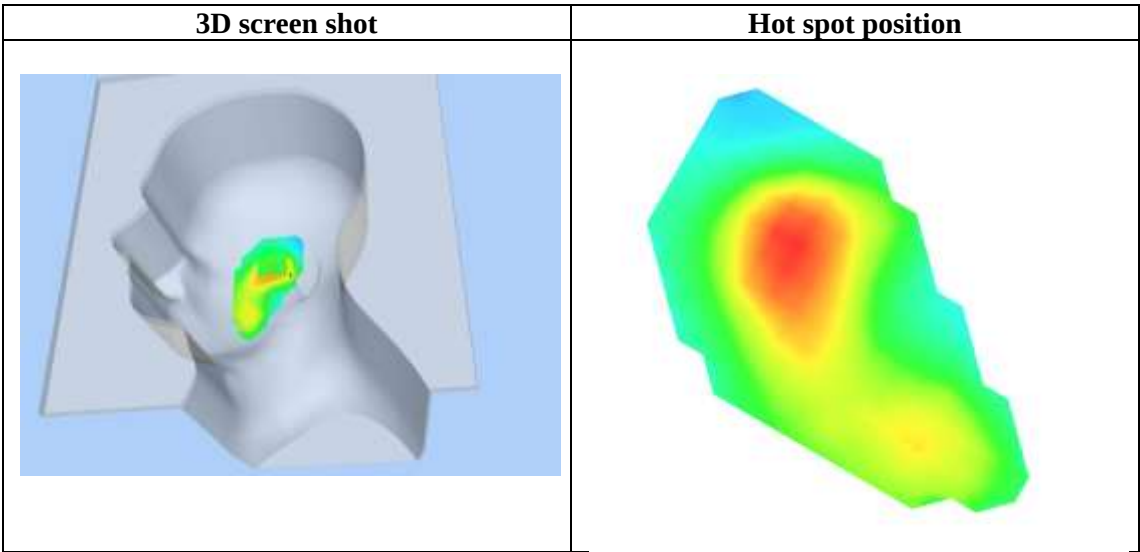
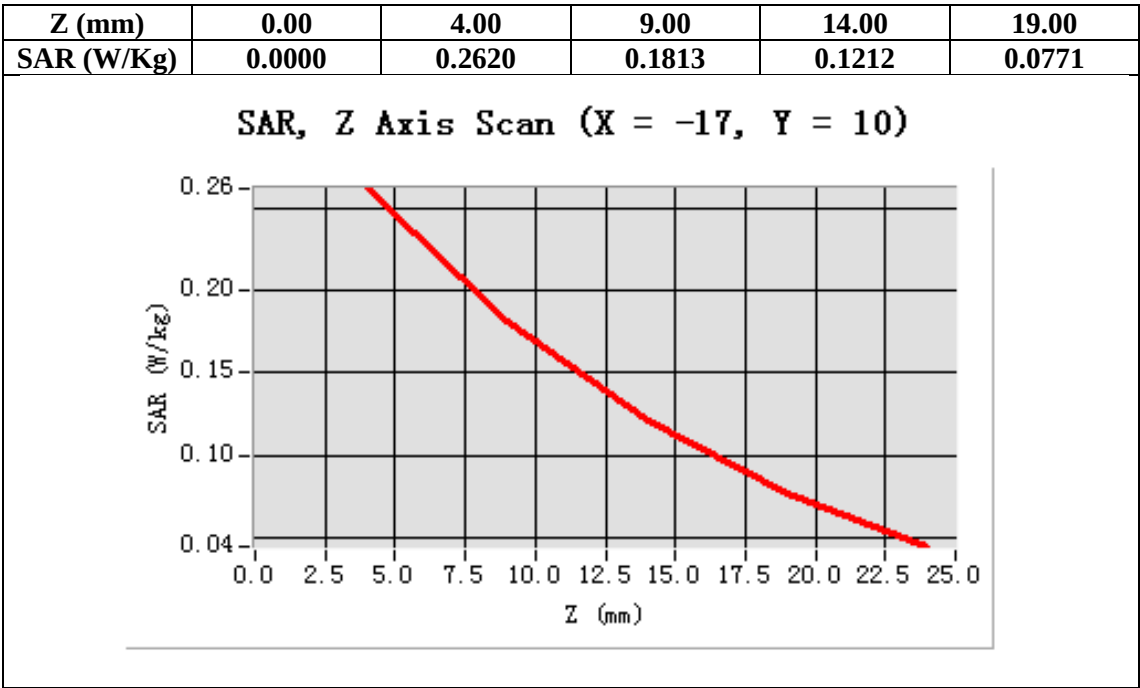
Configuration/ WCDMA Band IV Mid-Tilt-Left/Area Scan (6x8x1): Measurement grid: dx=8mm, dy=8mm
Configuration/ WCDMA Band IV Mid-Tilt-Left/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm;

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 IV
Channels	Middle
Signal	CDMA (Crest factor: 1.0)



Maximum location: X=-17.00, Y=10.00

SAR 10g (W/Kg)	0.142376
SAR 1g (W/Kg)	0.244731



Test Laboratory: AGC Lab
WCDMA Band IV Mid- Touch-Right (RMC)
DUT: Mobile Phone; Type: QUE 5.5

Date: July 10,2014

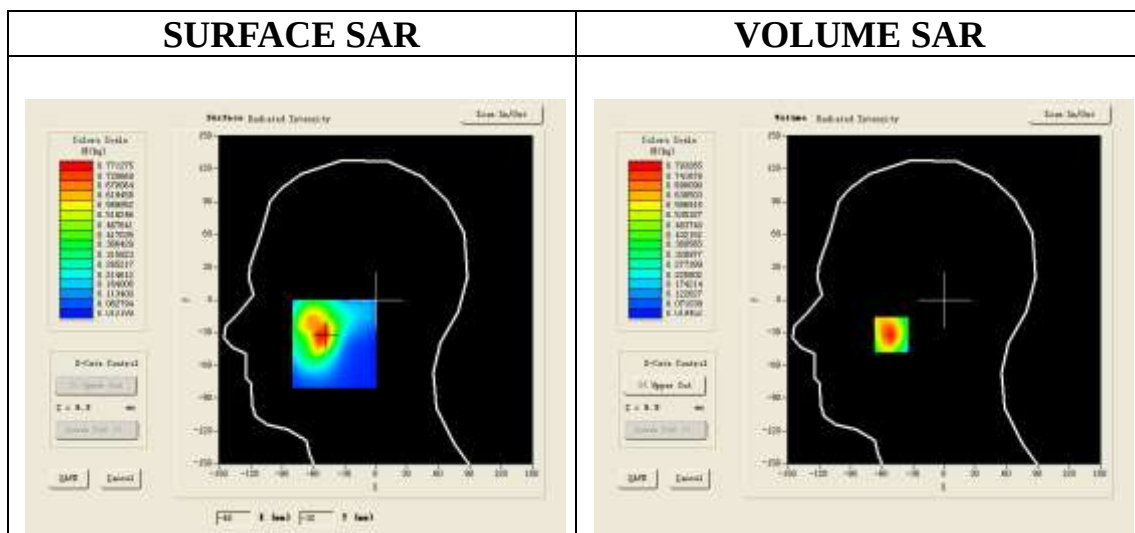
Communication System: UMTS; Communication System Band: BAND IV UTRA/FDD ; Duty Cycle:1: 1; Conv.F=4.58
Frequency: 1700 MHz; Medium parameters used: $f = 1732.6$ MHz; $\sigma = 1.40$ mho/m; $\epsilon_r = 39.45$; $\rho = 1000$ kg/m³ ;
Phantom section: Right Section
Ambient temperature (°C): 21, Liquid temperature (°C): 21

SATIMO Configuration:

- Probe: SSE5; Calibrated: 01/12/2014; Serial No.:SN 22/12 EP159
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: Flat Phantom; Type: Elliptical Phantom
- Measurement SW: OpenSAR V4_02_01

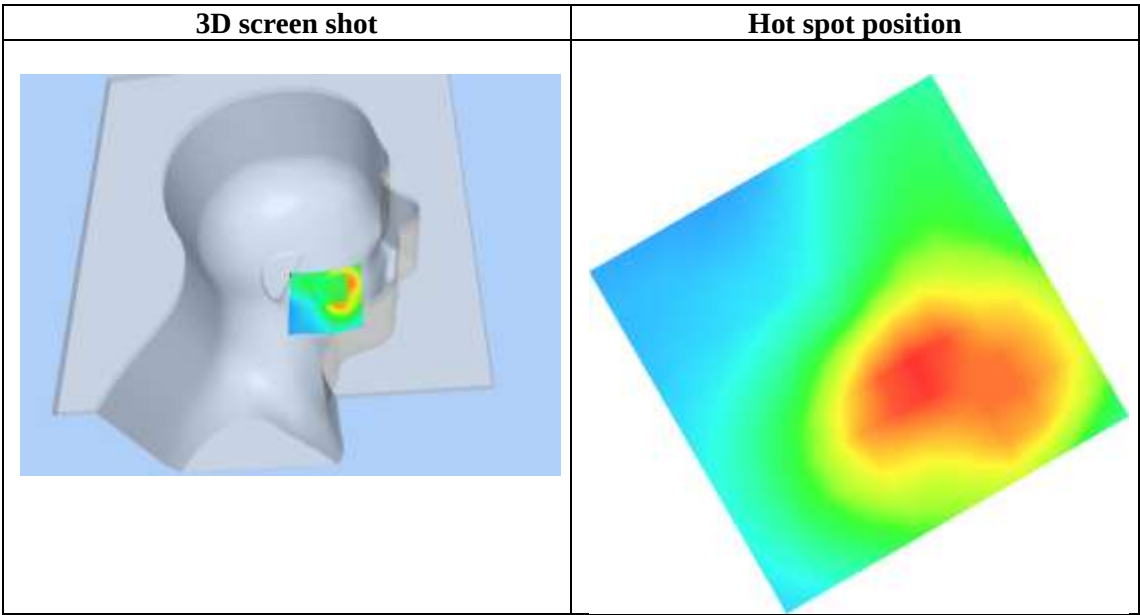
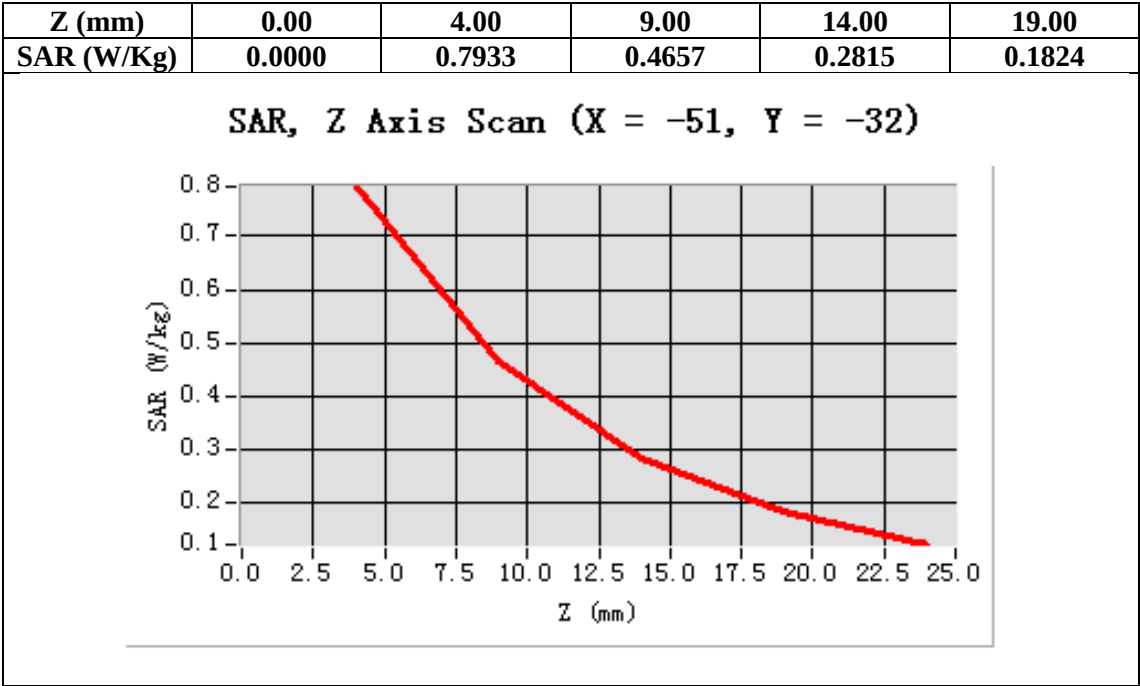
Configuration/ WCDMA Band IV Mid-Touch-Right/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/ WCDMA Band IV Mid-Touch-Right/Zoom Scan: Measurement grid: dx=8mm, dy=8mm, dz=5mm;

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 IV
Channels	Middle
Signal	CDMA (Crest factor: 1.0)



Maximum location: X=-51.00, Y=-32.00

SAR 10g (W/Kg)	0.423126
SAR 1g (W/Kg)	0.745095



Test Laboratory: AGC Lab
WCDMA Band IV Mid-Tilt-Right (RMC)
DUT: Mobile Phone; Type: QUE 5.5

Date: July 10,2014

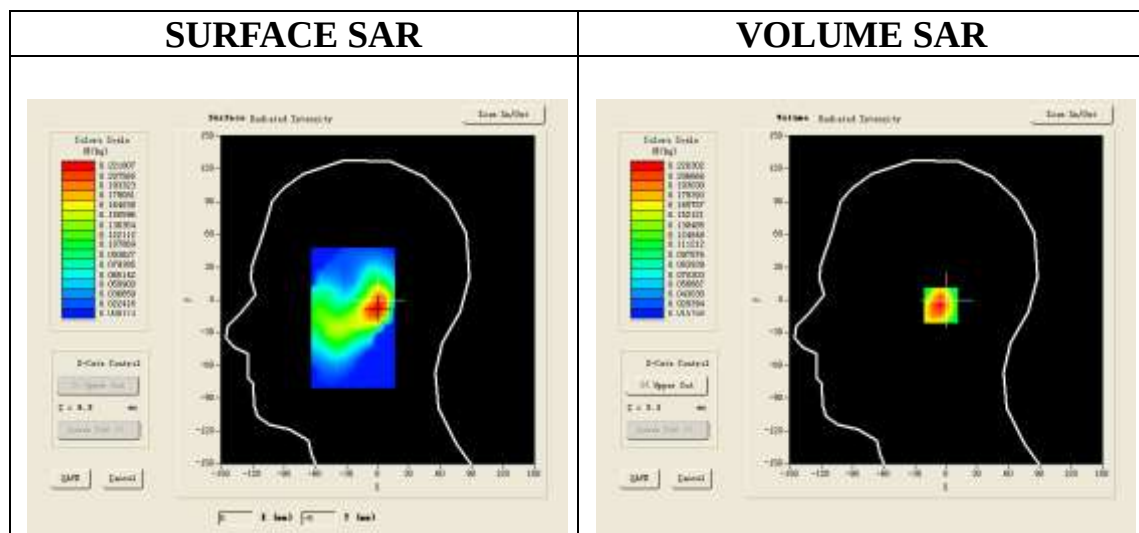
Communication System: UMTS; Communication System Band: BAND IV UTRA/FDD ; Duty Cycle:1: 1; Conv.F=4.58
Frequency: 1700 MHz; Medium parameters used: $f = 1732.6$ MHz; $\sigma = 1.40$ mho/m; $\epsilon_r = 39.45$; $\rho = 1000$ kg/m³ ;
Phantom section: Right Section
Ambient temperature (°C): 21, Liquid temperature (°C): 21

SATIMO Configuration:

- Probe: SSE5; Calibrated: 01/12/2014; Serial No.:SN 22/12 EP159
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: Flat Phantom; Type: Elliptical Phantom
- Measurement SW: Open SAR V4_02_01

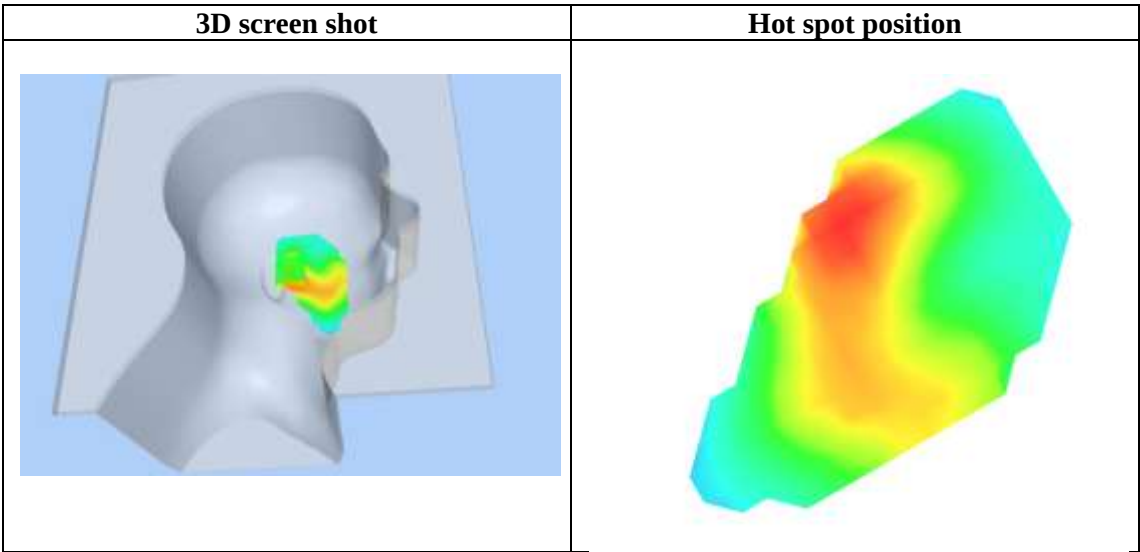
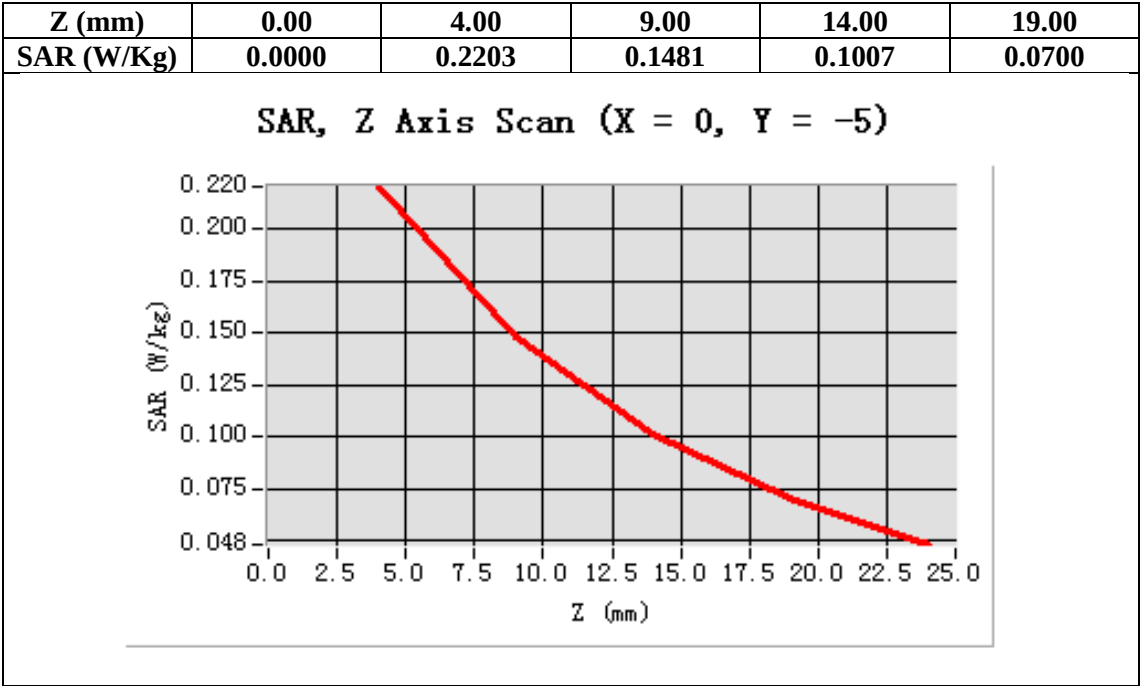
Configuration/ WCDMA Band IV Mid-Tilt-Right/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/ WCDMA Band IV Mid-Tilt-Right/Zoom Scan: Measurement grid: dx=8mm, dy=8mm, dz=5mm;

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 IV
Channels	Middle
Signal	CDMA (Crest factor: 1.0)



Maximum location: X=0.00, Y=-5.00

SAR 10g (W/Kg)	0.125623
SAR 1g (W/Kg)	0.200842



Test Laboratory: AGC Lab
WCDMA Band IV Low-Body-Towards Grounds (RMC)
DUT: Mobile Phone; Type: QUE 5.5

Date: July 10,2014

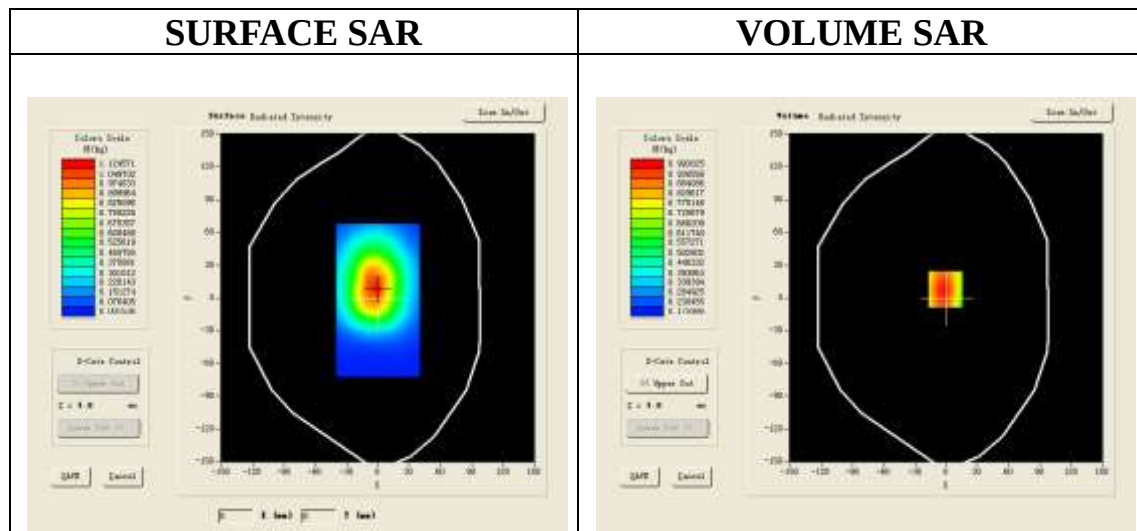
Communication System: UMTS; Communication System Band: BAND IV UTRA/FDD; Duty Cycle:1: 1; Conv.F=4.71
Frequency: 1712.4 MHz; Medium parameters used: $f = 1732.6\text{MHz}$; $\sigma=1.44\text{mho/m}$; $\epsilon_r=53.12$; $\rho= 1000 \text{ kg/m}^3$;
Phantom section: Flat Section
Ambient temperature ($^{\circ}\text{C}$):21, Liquid temperature ($^{\circ}\text{C}$):21

SATIMO Configuration:

- Probe: SSE5; Calibrated: 01/12/2014; Serial No.:SN 22/12 EP159
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: Flat Phantom; Type: Elliptical Phantom
- Measurement SW: OpenSAR V4_02_01

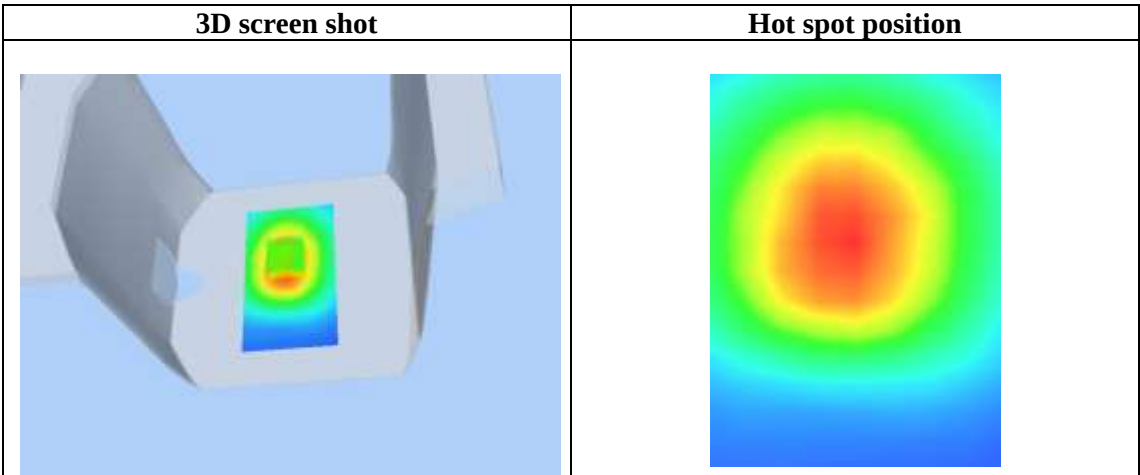
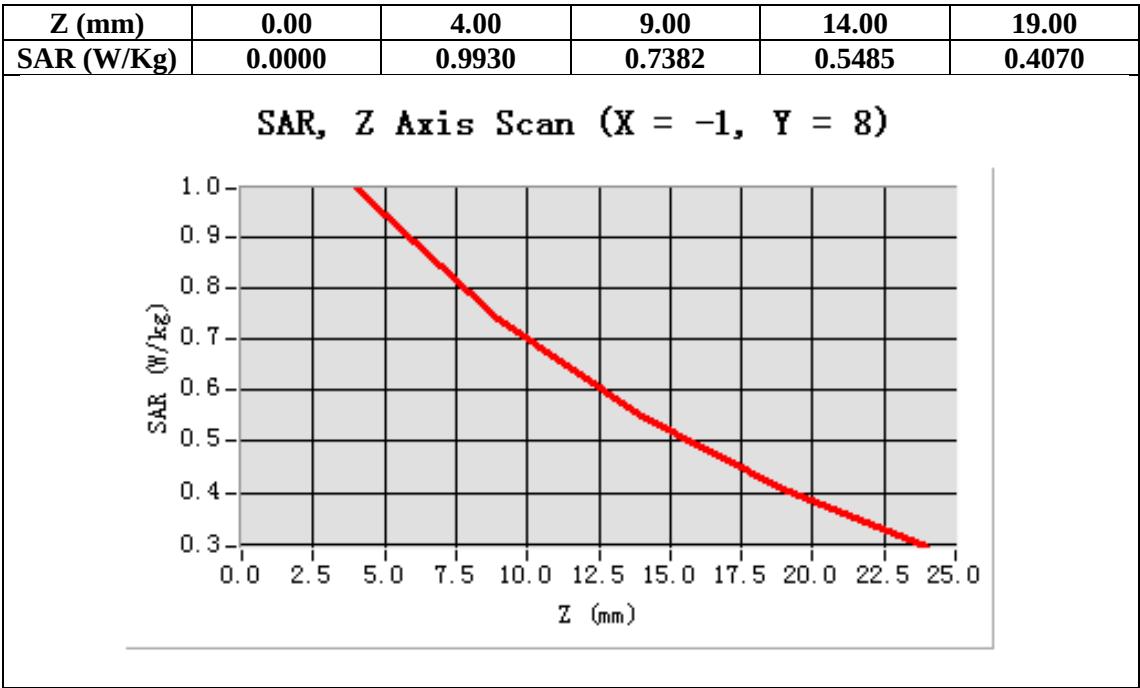
Configuration/ WCDMA Band IV Low -Body-Back/Area Scan (6x8x1): Measurement grid: dx=8mm, dy=8mm
Configuration/ WCDMA Band IV Low -Body-Back/Zoom Scan (5x5x7)/Cube 0: Measurement grid:
dx=8mm,dy=8mm, dz=5mm;

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



Maximum location: X=-1.00, Y=8.00

SAR 10g (W/Kg)	0.665623
SAR 1g (W/Kg)	0.959052



Test Laboratory: AGC Lab
WCDMA Band IV Mid-Body-Towards Grounds (RMC)
DUT: Mobile Phone; **Type:** QUE 5.5

Date: July 10,2014

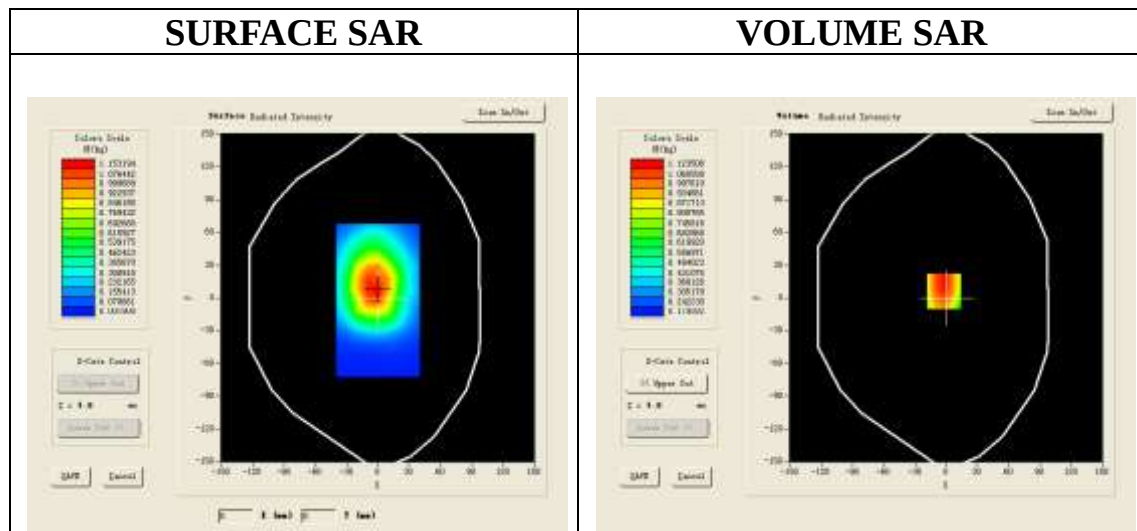
Communication System: UMTS; Communication System Band: BAND IV UTRA/FDD; Duty Cycle:1: 1; Conv.F=4.71
Frequency: 1700 MHz; Medium parameters used: $f = 1732.6\text{MHz}$; $\sigma = 1.50\text{mho/m}$; $\epsilon_r = 53.47$; $\rho = 1000\text{ kg/m}^3$;
Phantom section: Flat Section
Ambient temperature ($^{\circ}\text{C}$):21, Liquid temperature ($^{\circ}\text{C}$):21

SATIMO Configuration:

- Probe: SSE5; Calibrated: 01/12/2014; Serial No.:SN 22/12 EP159
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: Flat Phantom; Type: Elliptical Phantom
- Measurement SW: OpenSAR V4_02_01

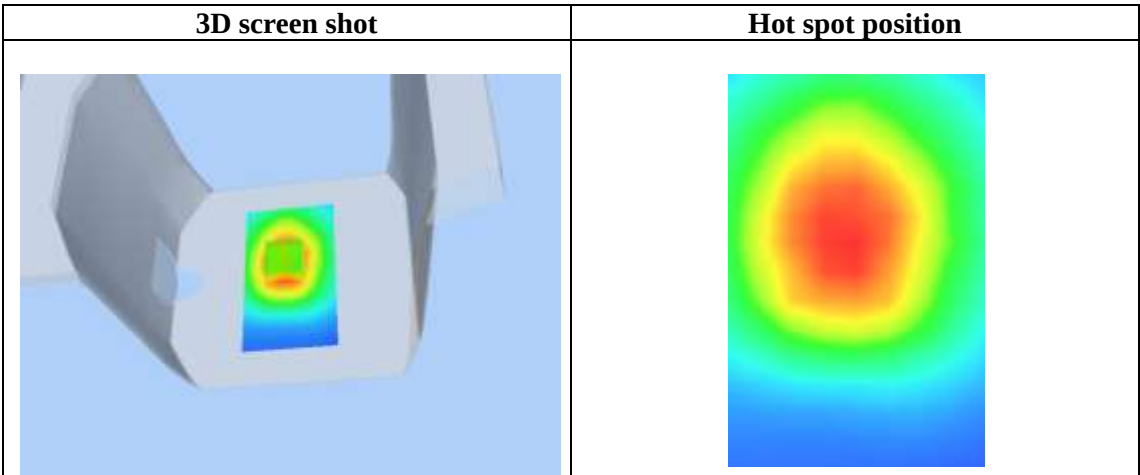
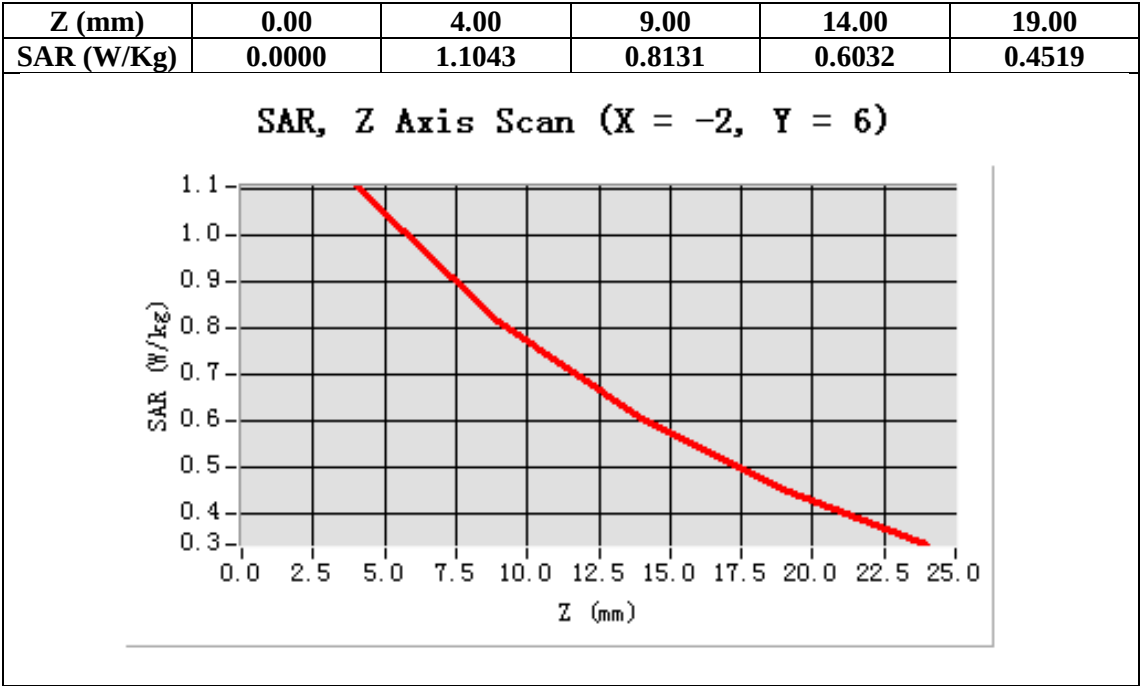
Configuration/ WCDMA Band IV Mid-Body-Back/Area Scan (6x8x1): Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$
Configuration/ WCDMA Band IV Mid-Body-Back/Zoom Scan (5x5x7)/Cube 0: Measurement grid:
 $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$;

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



Maximum location: X=-2.00, Y=6.00

SAR 10g (W/Kg)	0.755217
SAR 1g (W/Kg)	1.073796



Test Laboratory: AGC Lab
WCDMA Band IV High-Body-Towards Grounds (RMC)
DUT: Mobile Phone; Type: QUE 5.5

Date: July 10,2014

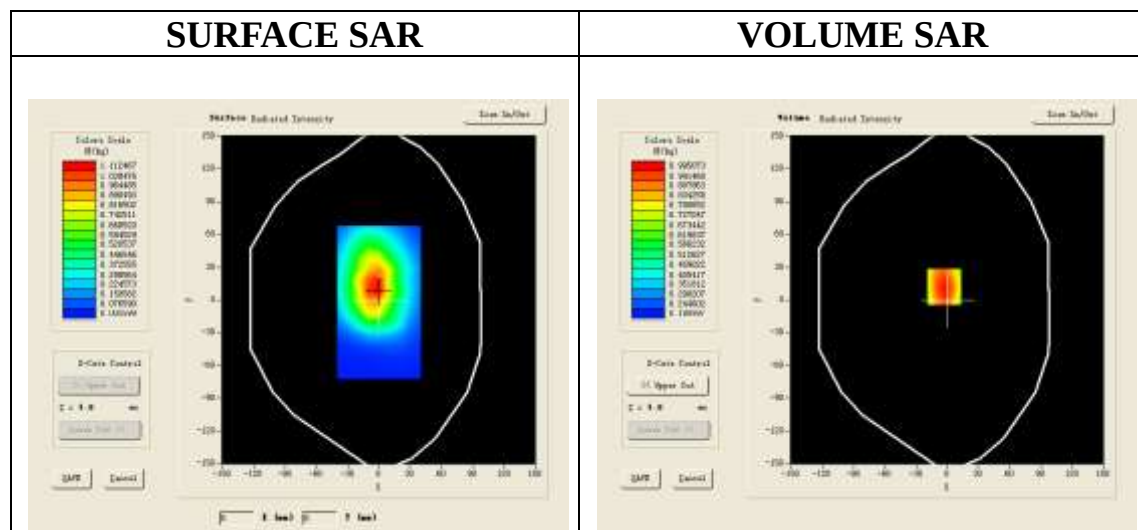
Communication System: UMTS; Communication System Band: BAND IV UTRA/FDD; Duty Cycle:1: 1; Conv.F=4.71
Frequency: 1752.6 MHz; Medium parameters used: $f = 1732.6\text{MHz}$; $\sigma=1.54\text{mho/m}$; $\epsilon_r=53.73$; $\rho= 1000 \text{ kg/m}^3$;
Phantom section: Flat Section
Ambient temperature ($^{\circ}\text{C}$):21, Liquid temperature ($^{\circ}\text{C}$):21

SATIMO Configuration:

- Probe: SSE5; Calibrated: 01/12/2014; Serial No.:SN 22/12 EP159
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: Flat Phantom; Type: Elliptical Phantom
- Measurement SW: OpenSAR V4_02_01

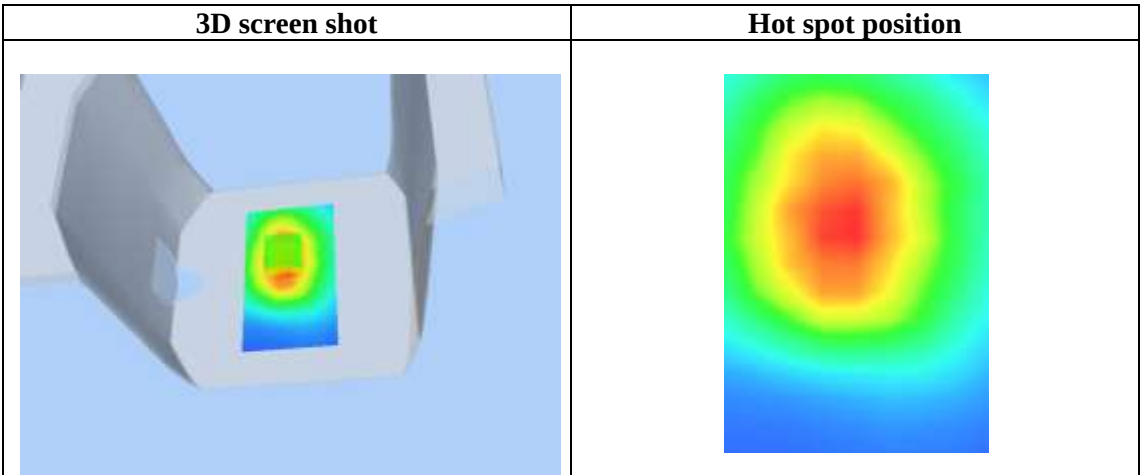
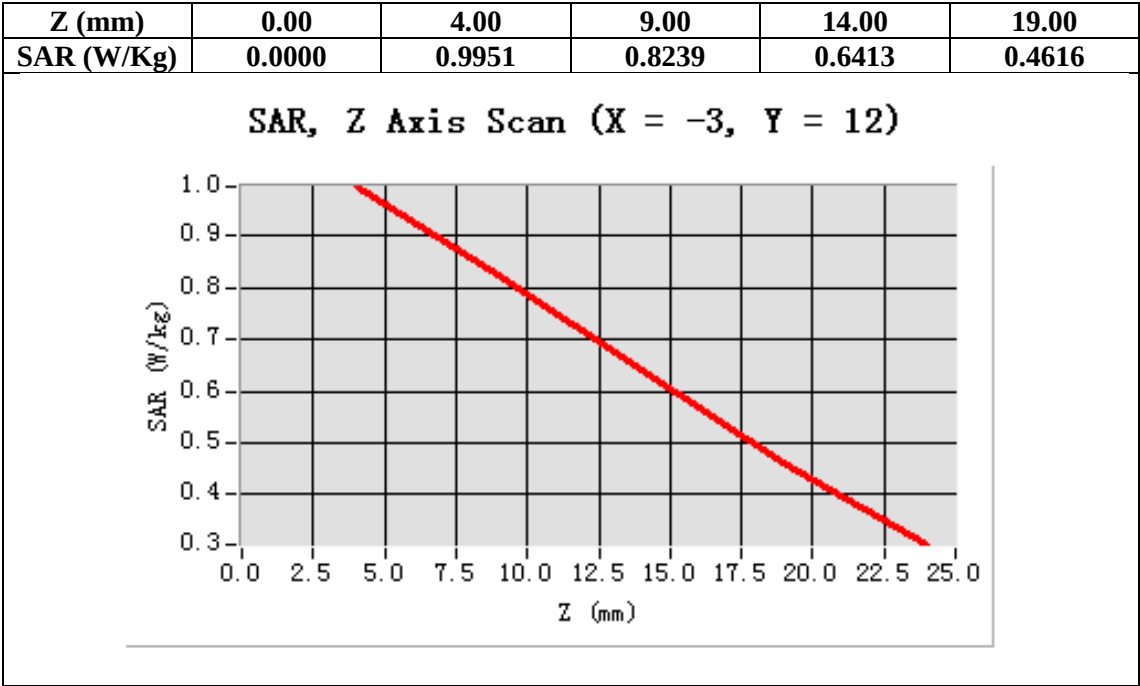
Configuration/ WCDMA Band IV High-Body-Back/Area Scan (6x8x1): Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$
Configuration/ WCDMA Band IV High-Body-Back/Zoom Scan (5x5x7)/Cube 0: Measurement grid:
 $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$;

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



Maximum location: X=-3.00, Y=12.00

SAR 10g (W/Kg)	0.691479
SAR 1g (W/Kg)	0.955428



Test Laboratory: AGC Lab
WCDMA Band IV Mid- Body - Towards Phantom (RMC)
DUT: Mobile Phone; Type: QUE 5.5

Date: July 10,2014

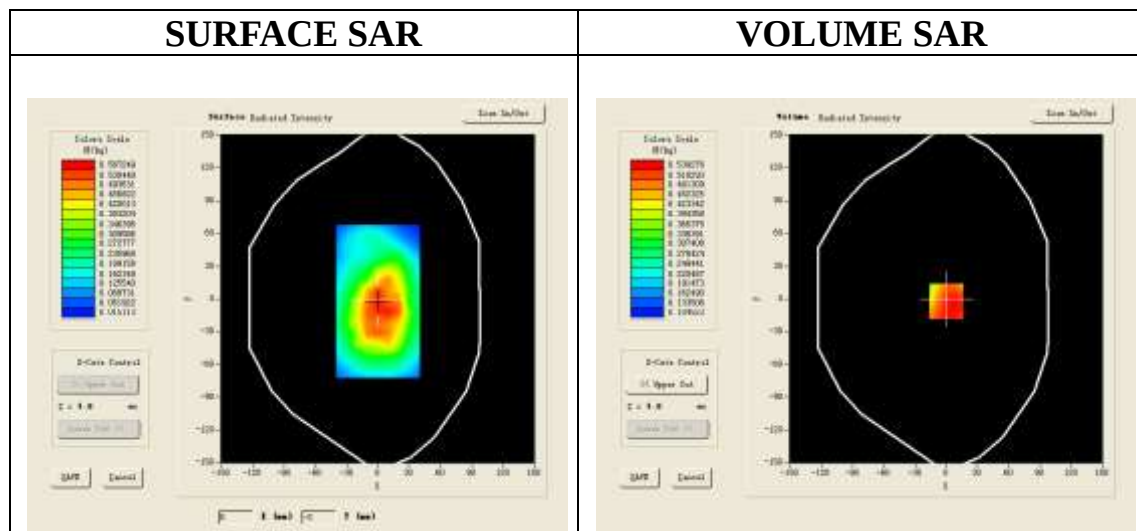
Communication System: UMTS; Communication System Band: BAND IV UTRA/FDD ; Duty Cycle:1: 1; Conv.F=4.71
Frequency: 1700 MHz; Medium parameters used: $f = 1732.6\text{MHz}$; $\sigma = 1.50\text{mho/m}$; $\epsilon_r = 53.47$; $\rho = 1000\text{ kg/m}^3$;
Phantom section: Flat Section
Ambient temperature ($^{\circ}\text{C}$):21, Liquid temperature ($^{\circ}\text{C}$):21

SATIMO Configuration:

- Probe: SSE5; Calibrated: 01/12/2014; Serial No.:SN 22/12 EP159
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: Flat Phantom; Type: Elliptical Phantom
- Measurement SW: OpenSAR V4_02_01

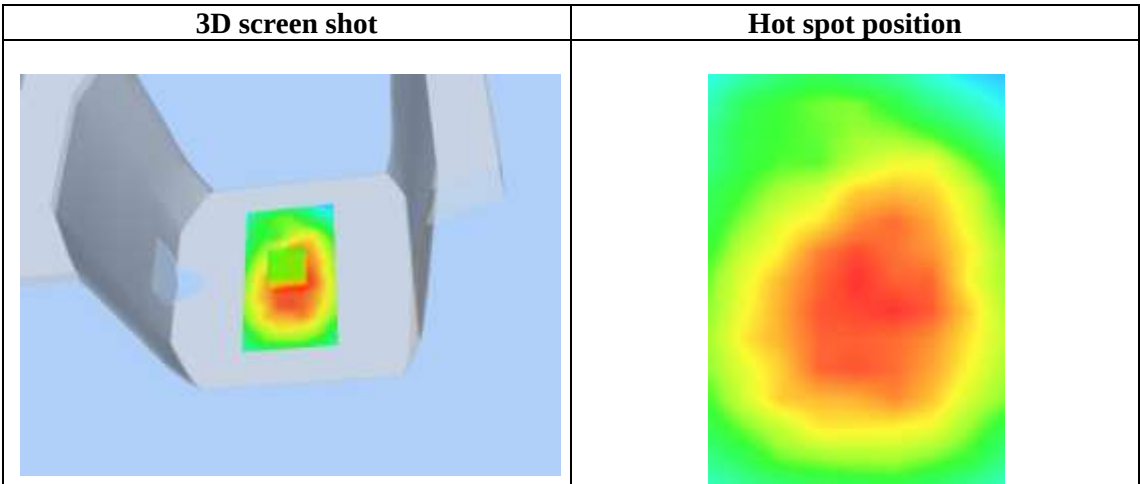
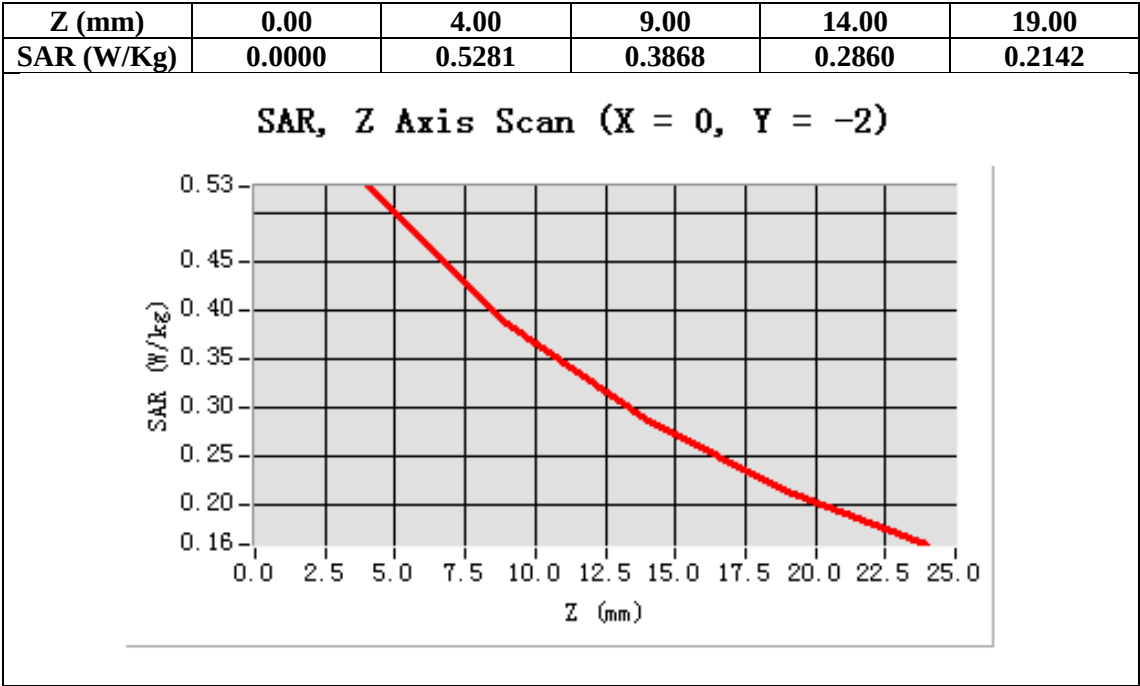
Configuration/ WCDMA Band IV Mid-Body-Front/Area Scan (6x8x1): Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$
Configuration/ WCDMA Band IV Mid-Body-Front/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$;

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



Maximum location: X=0.00, Y=-2.00

SAR 10g (W/Kg)	0.415722
SAR 1g (W/Kg)	0.561268



WIFI MODE

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

Date: July 10,2014

DUT: Mobile Phone; Type: QUE 5.5

Communication System: Wi-Fi; Communication System Band: 802.11b; Duty Cycle: 1:1; Conv.F=4.42;
Frequency: 2437 MHz; Medium parameters used: $f = 2450$ MHz; $\sigma = 1.82$ mho/m; $\epsilon_r = 39.24$; $\rho = 1000$ kg/m³ ;
Phantom section: Left Section
Ambient temperature (°C): 21, Liquid temperature (°C): 21

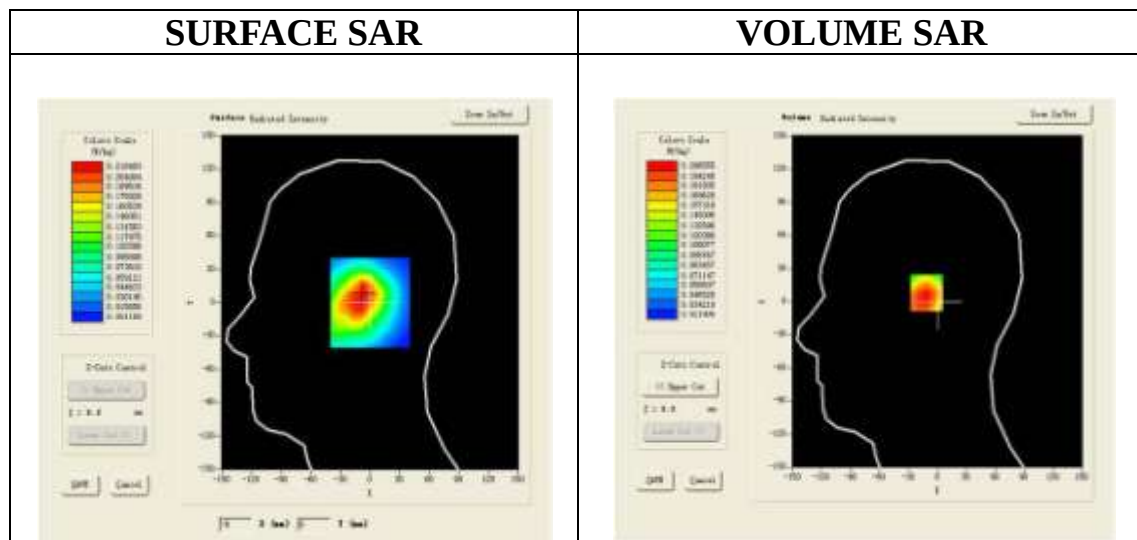
SATIMO Configuration:

- Probe: SSE5; Calibrated: 01/12/2014; Serial No.:SN 22/12 EP159
- 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

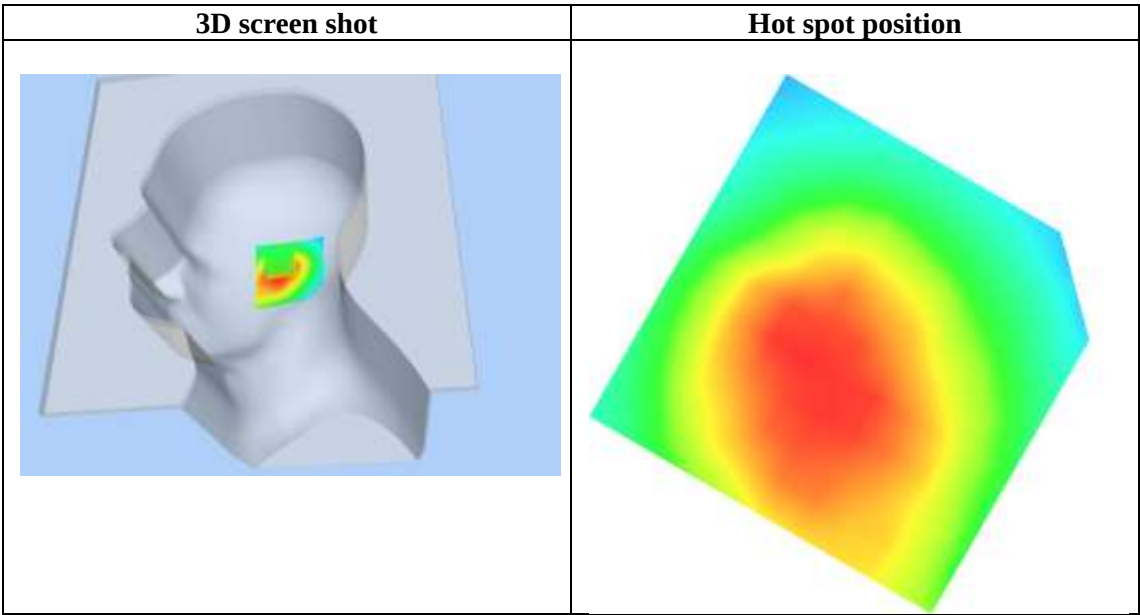
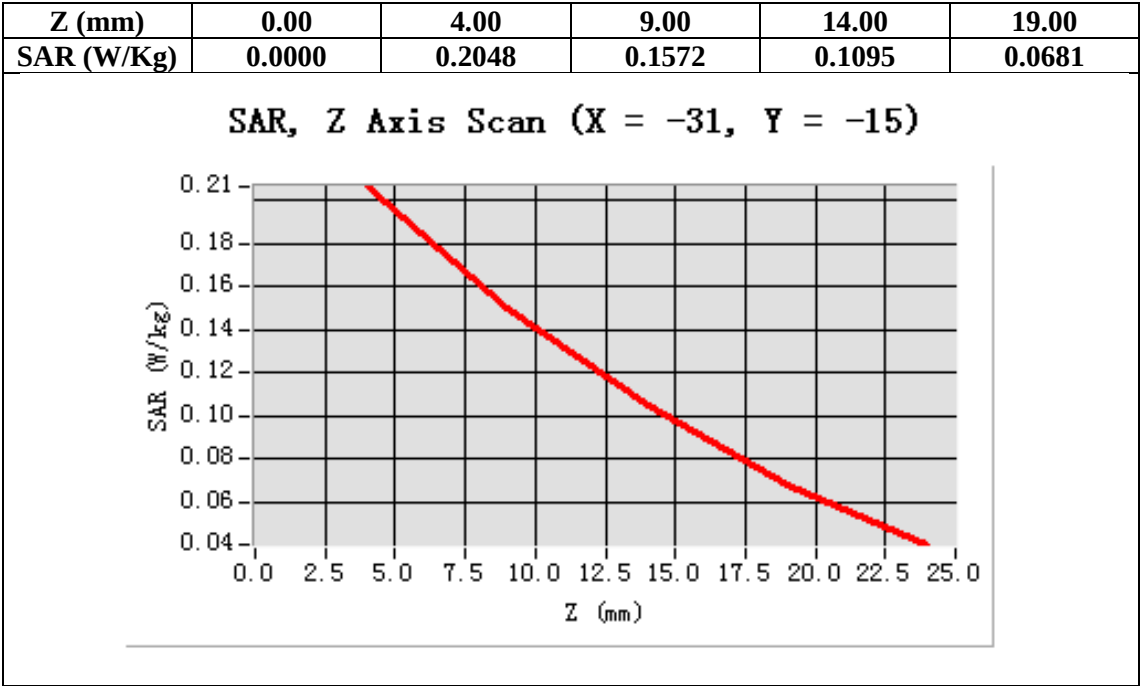
Configuration/802.11b Mid- Touch-Left/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

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	Crest factor: 1.0



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

SAR 10g (W/Kg)	0.138359
SAR 1g (W/Kg)	0.197152



Test Laboratory: AGC Lab
802.11b Mid -Tilt-Left -DTS
DUT: Mobile Phone; Type: QUE 5.5

Date: July 10,2014

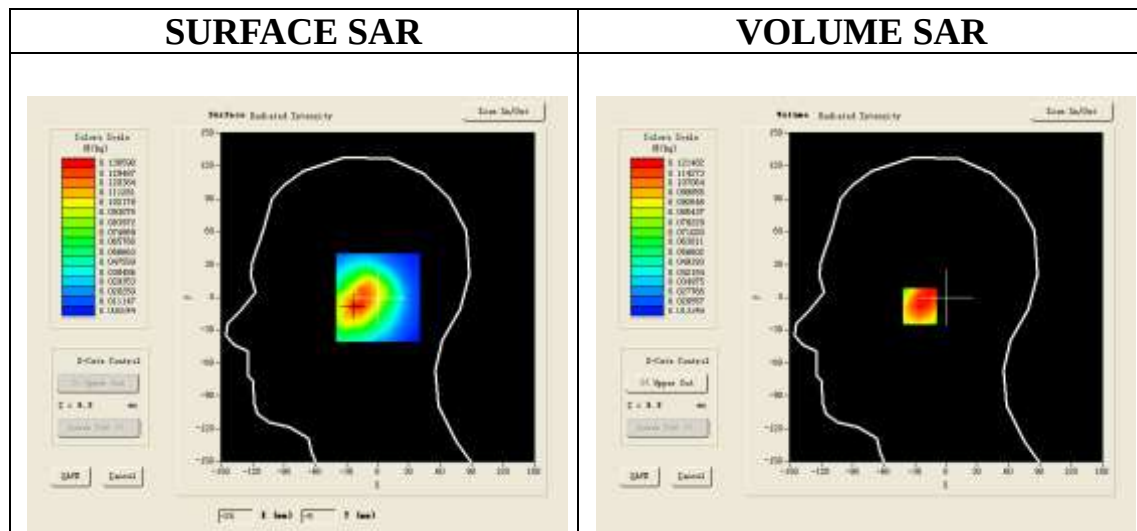
Communication System: Wi-Fi; Communication System Band: 802.11b; Duty Cycle: 1:1; Conv.F=4.42;
Frequency: 2437 MHz; Medium parameters used: $f = 2450$ MHz; $\sigma = 1.82$ mho/m; $\epsilon_r = 39.24$; $\rho = 1000$ kg/m³ ;
Phantom section: Left Section
Ambient temperature (°C): 21, Liquid temperature (°C): 21

SATIMO Configuration:

- Probe: SSE5; Calibrated: 01/12/2014; Serial No.:SN 22/12 EP159
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: Flat Phantom; Type: Elliptical Phantom
- Measurement SW: OpenSAR V4_02_01

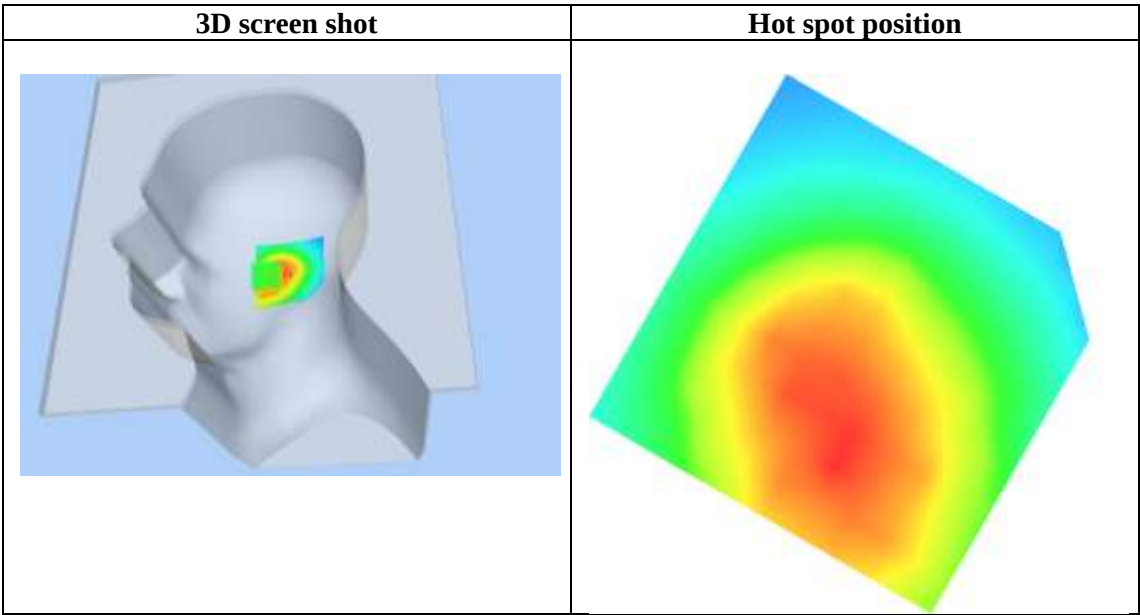
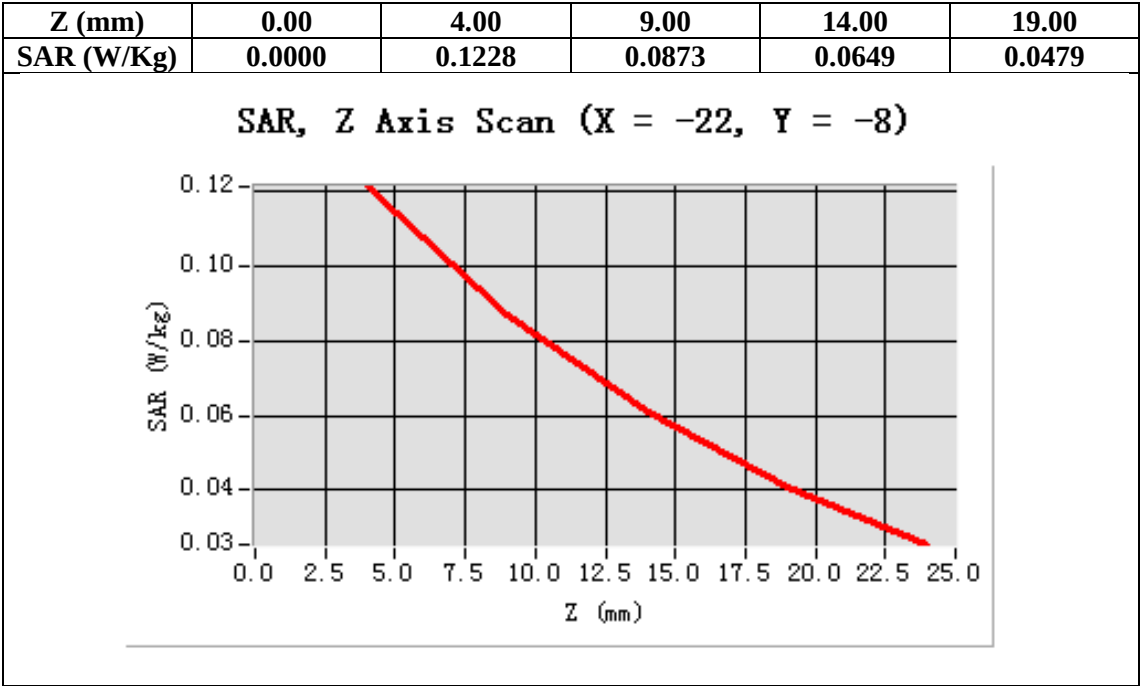
Configuration/802.11b Mid- Tilt-Left/Area Scan (6x8x1): Measurement grid: dx=8mm, dy=8mm
Configuration/802.11b Mid- Tilt-Left/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm,dz=5mm;

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	Crest factor: 1.0



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

SAR 10g (W/Kg)	0.079032
SAR 1g (W/Kg)	0.114172



Test Laboratory: AGC Lab
802.11b Mid- Touch-Right -DTS
DUT: Mobile Phone; Type: QUE 5.5

Date: July 10,2014

Communication System: Wi-Fi; Communication System Band: 802.11b; Duty Cycle: 1:1; Conv.F=4.42;
Frequency: 2437 MHz; Medium parameters used: $f = 2450$ MHz; $\sigma = 1.82$ mho/m; $\epsilon_r = 39.24$; $\rho = 1000$ kg/m³ ;
Phantom section: Right Section
Ambient temperature (°C): 21, Liquid temperature (°C): 21

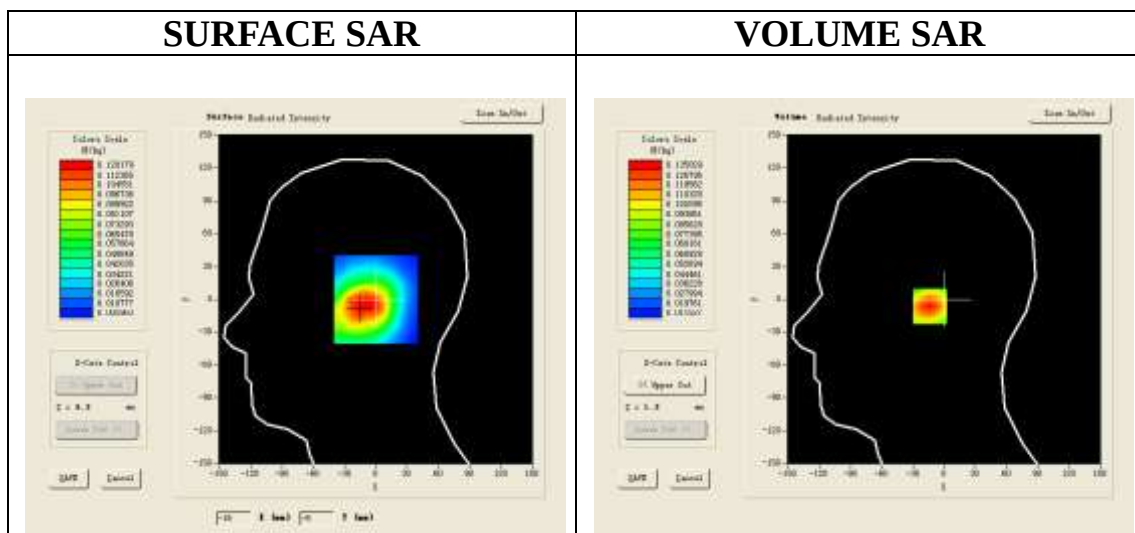
SATIMO Configuration:

- Probe: SSE5; Calibrated: 01/12/2014; Serial No.:SN 22/12 EP159
- 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

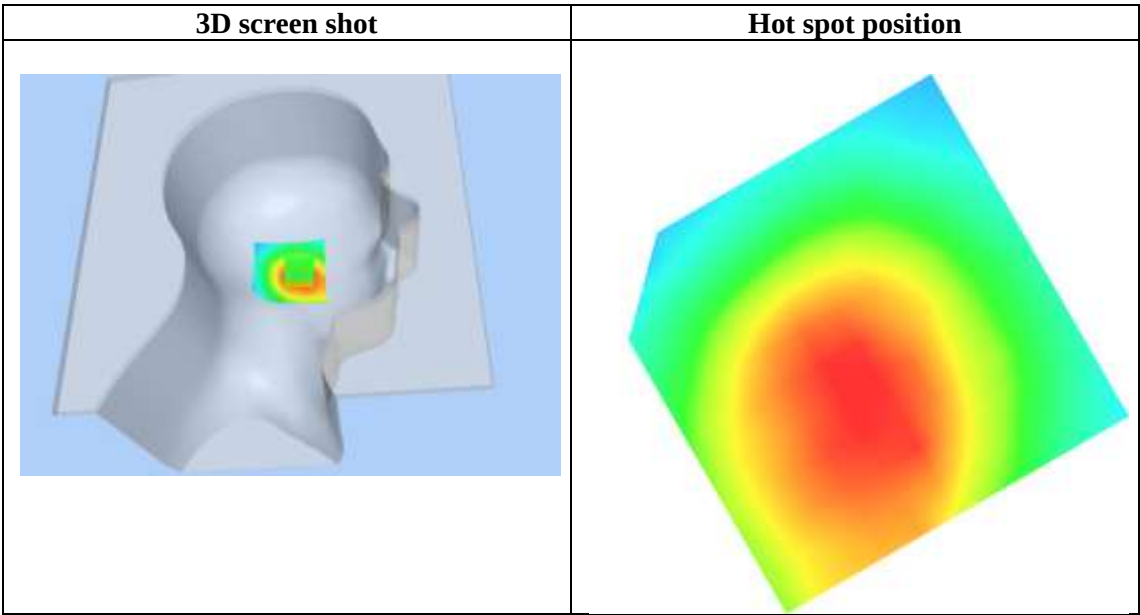
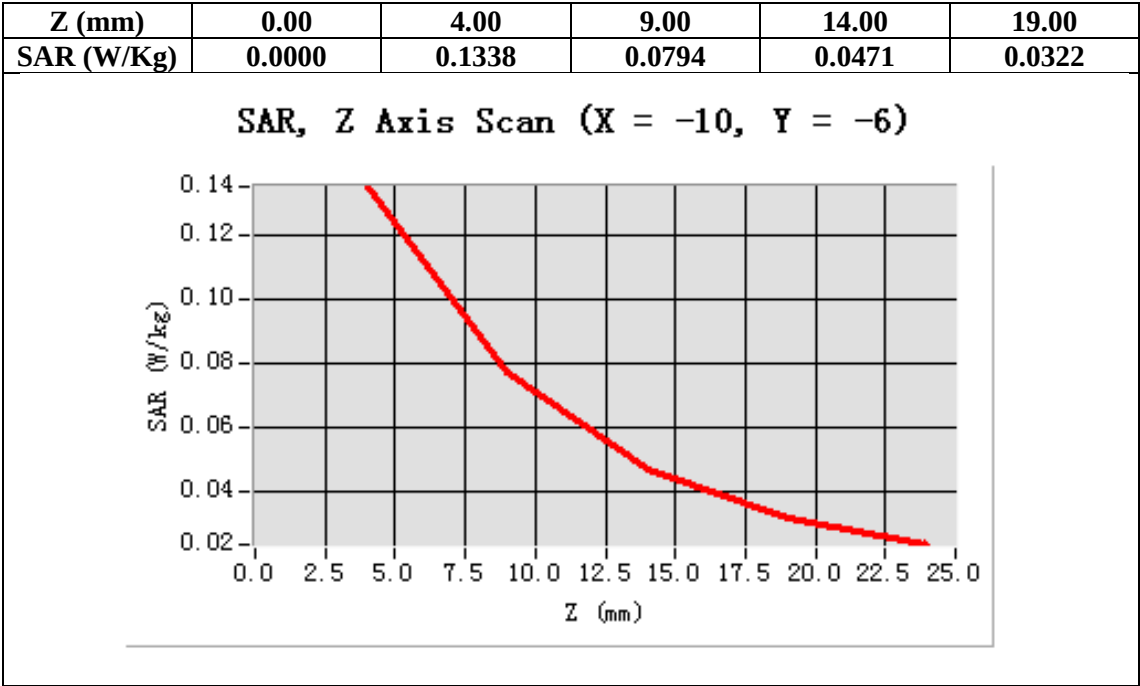
Configuration/802.11b Mid- Touch-Right /Zoom Scan: Measurement grid: dx=8mm, dy=8mm, dz=5mm;

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	Crest factor: 1.0



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

SAR 10g (W/Kg)	0.071205
SAR 1g (W/Kg)	0.129357



Test Laboratory: AGC Lab
802.11b Mid-Tilt-Right -DTS
DUT: Mobile Phone; Type: QUE 5.5

Date: July 10,2014

Communication System: Wi-Fi; Communication System Band: 802.11b; Duty Cycle: 1:1; Conv.F=4.42;
Frequency: 2437 MHz; Medium parameters used: $f = 2450$ MHz; $\sigma = 1.82$ mho/m; $\epsilon_r = 39.24$; $\rho = 1000$ kg/m³ ;
Phantom section: Right Section
Ambient temperature (°C): 21, Liquid temperature (°C): 21

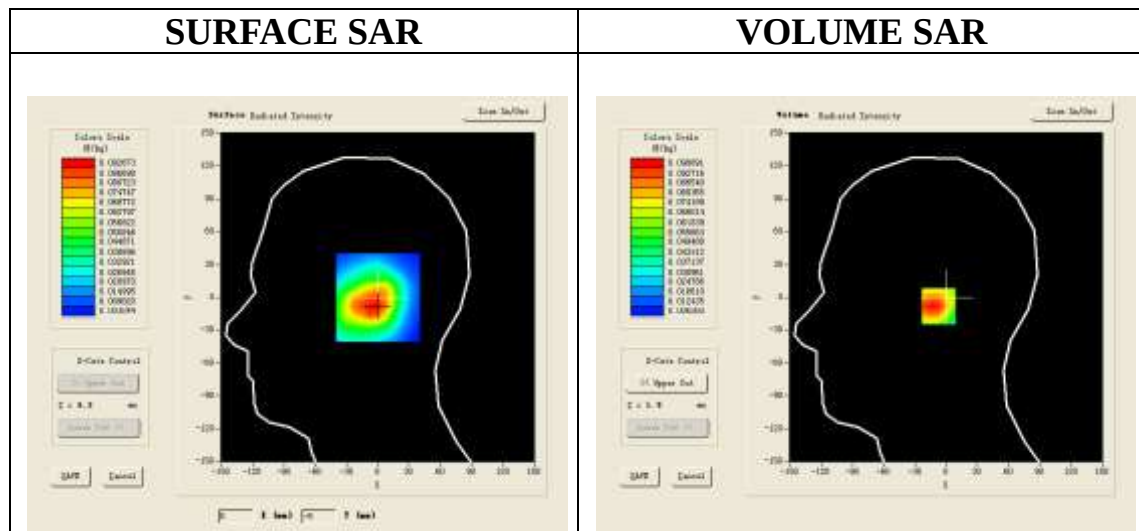
SATIMO Configuration:

- Probe: SSE5; Calibrated: 01/12/2014; Serial No.:SN 22/12 EP159
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: Flat Phantom; Type: Elliptical Phantom
- Measurement SW: Open SAR V4_02_01

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

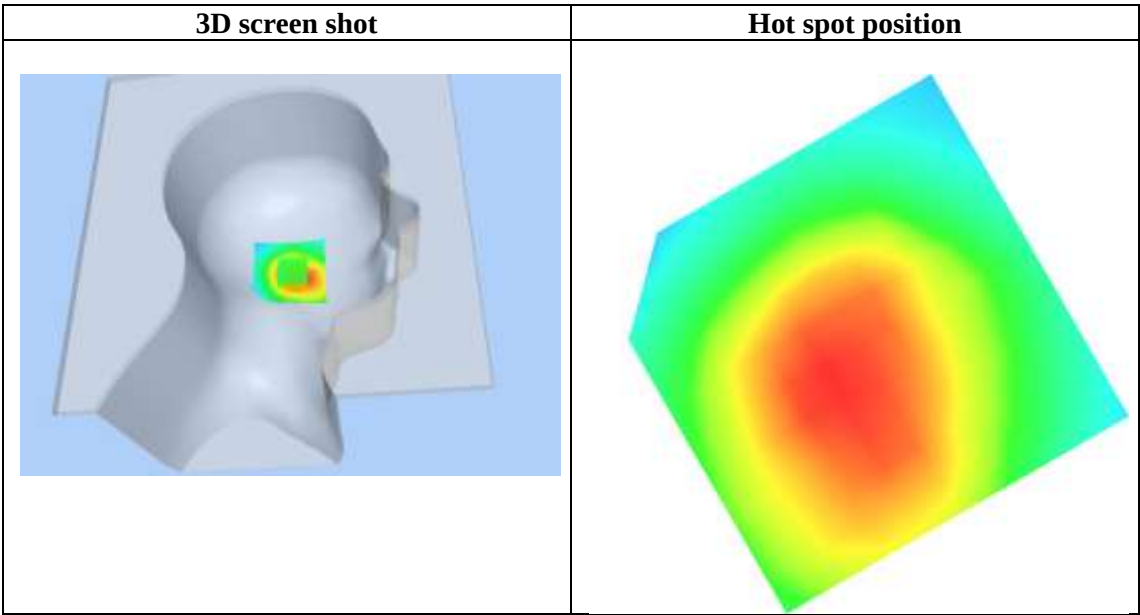
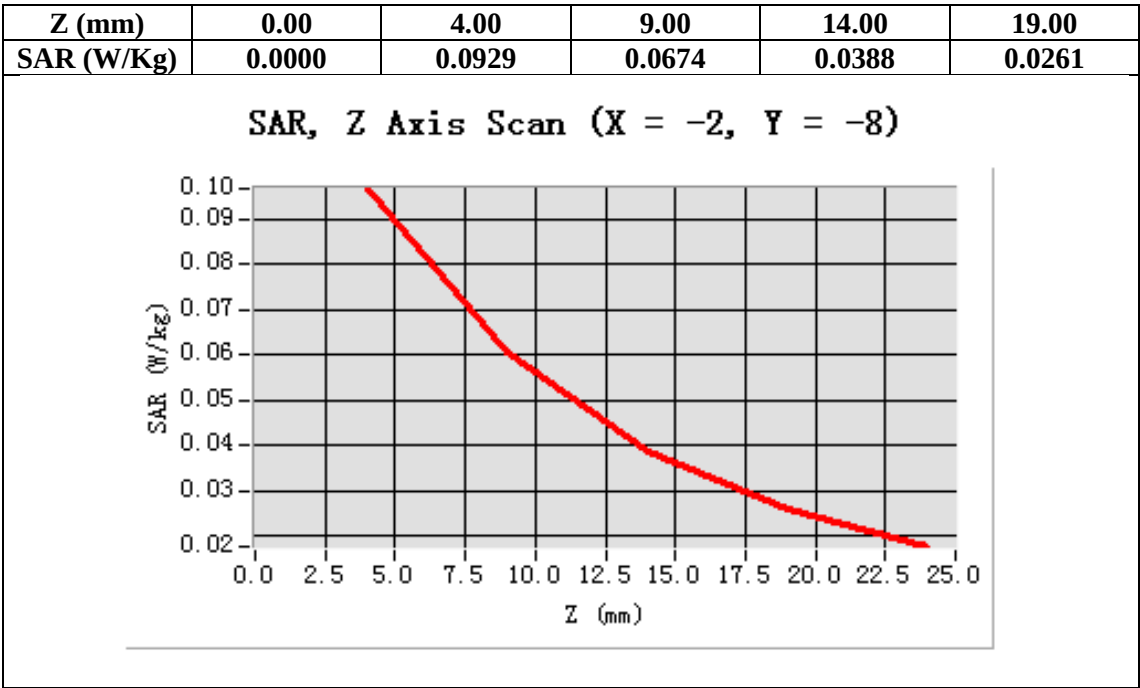
Configuration/802.11b Mid- Tilt-Right/Zoom Scan: Measurement grid: dx=8mm,
dy=8mm, dz=5mm;

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	Crest factor: 1.0



Maximum location: X=-2.00, Y=-8.00

SAR 10g (W/Kg)	0.053146
SAR 1g (W/Kg)	0.096936



Test Laboratory: AGC Lab
802.11b Mid-Body-Worn- Back (DTS)
DUT: Mobile Phone; Type: QUE 5.5

Date: July 10,2014

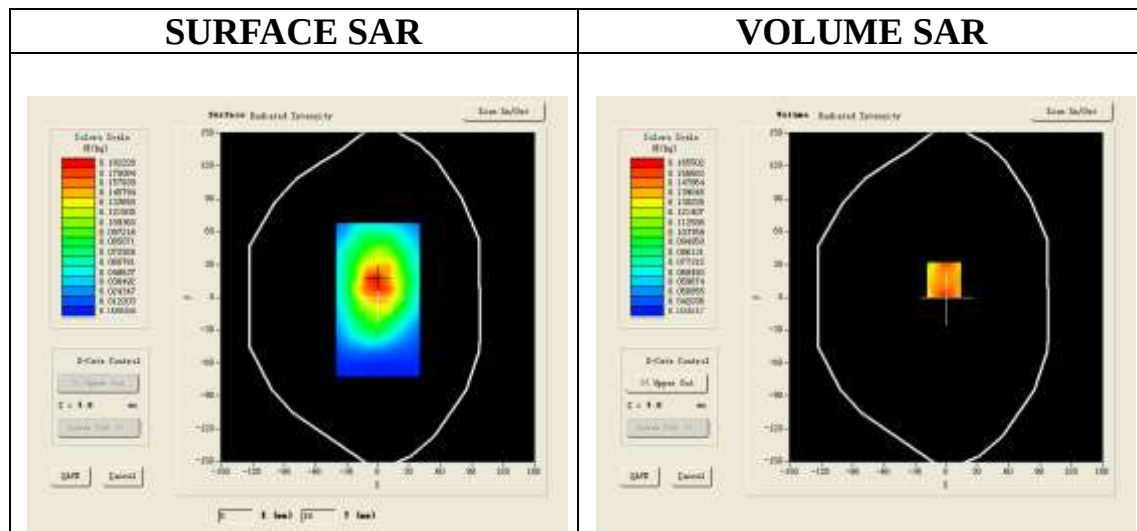
Communication System: Wi-Fi; Communication System Band: 802.11b; Duty Cycle: 1:1; Conv.F=4.31;
Frequency: 2437 MHz; Medium parameters used: $f = 2450$ MHz; $\sigma = 1.93$ mho/m; $\epsilon_r = 52.36$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section
Ambient temperature (°C):21, Liquid temperature (°C):21

SATIMO Configuration:

- Probe: SSE5; Calibrated: 01/12/2014; Serial No.:SN 22/12 EP159
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: Flat Phantom; Type: Elliptical Phantom
- Measurement SW: OpenSAR V4_02_01

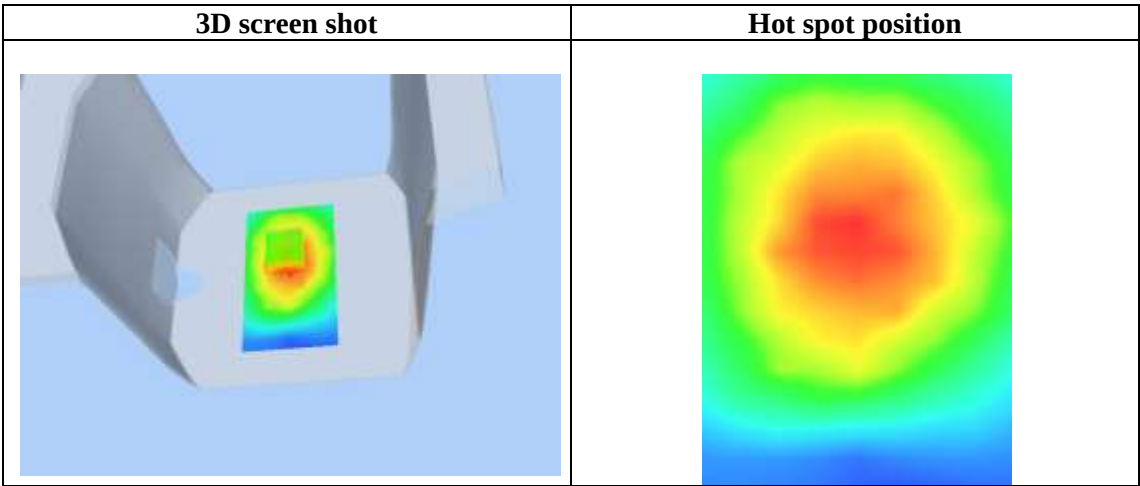
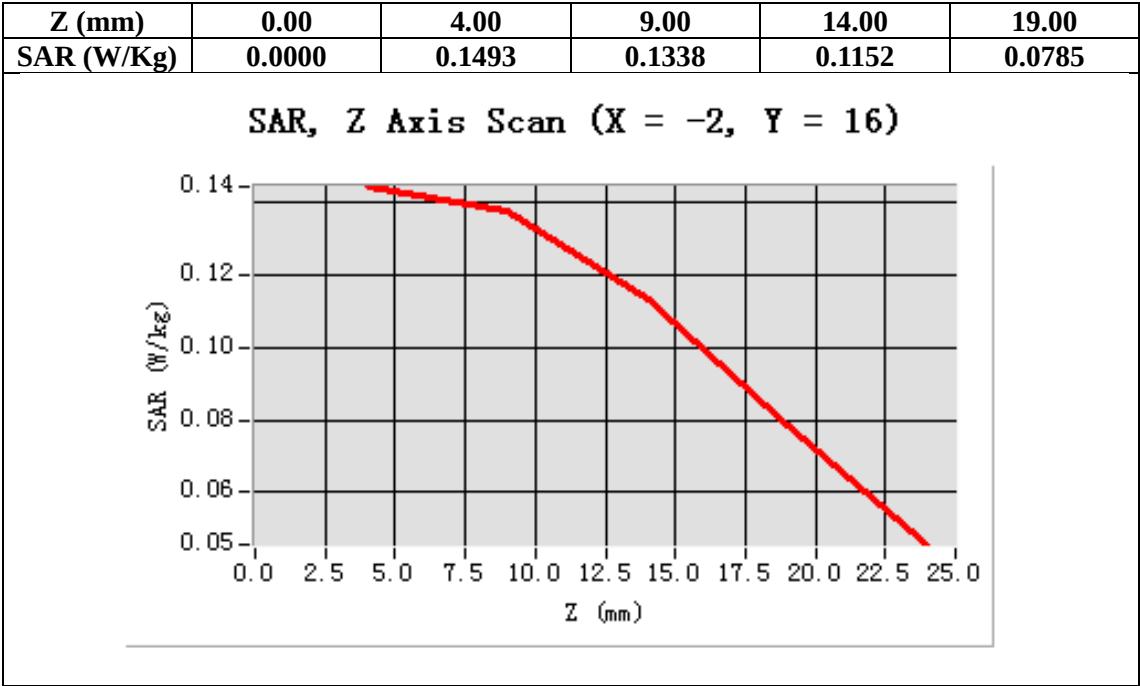
Configuration/802.11b Mid- Body- Back /Area Scan (6x8x1): Measurement grid: dx=8mm, dy=8mm
Configuration/802.11b Mid- Body- Back /Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm;

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	Crest factor: 1.0



Maximum location: X=-2.00, Y=16.00

SAR 10g (W/Kg)	0.123805
SAR 1g (W/Kg)	0.167421



Test Laboratory: AGC Lab
802.11b Mid-Body -Front (DTS)
DUT: Mobile Phone; Type: QUE 5.5

Date: July 10,2014

Communication System: Wi-Fi; Communication System Band: 802.11b; Duty Cycle: 1:1; Conv.F=4.31;
Frequency: 2437 MHz; Medium parameters used: $f = 2450$ MHz; $\sigma = 1.93$ mho/m; $\epsilon_r = 52.36$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section
Ambient temperature (°C):21, Liquid temperature (°C):21

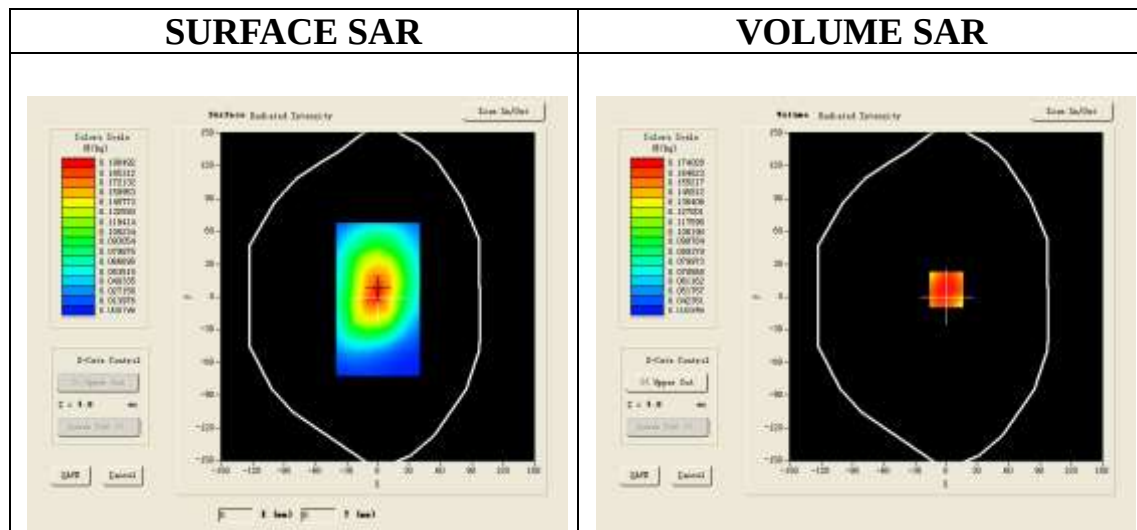
SATIMO Configuration:

- Probe: SSE5; Calibrated: 01/12/2014; Serial No.:SN 22/12 EP159
- 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

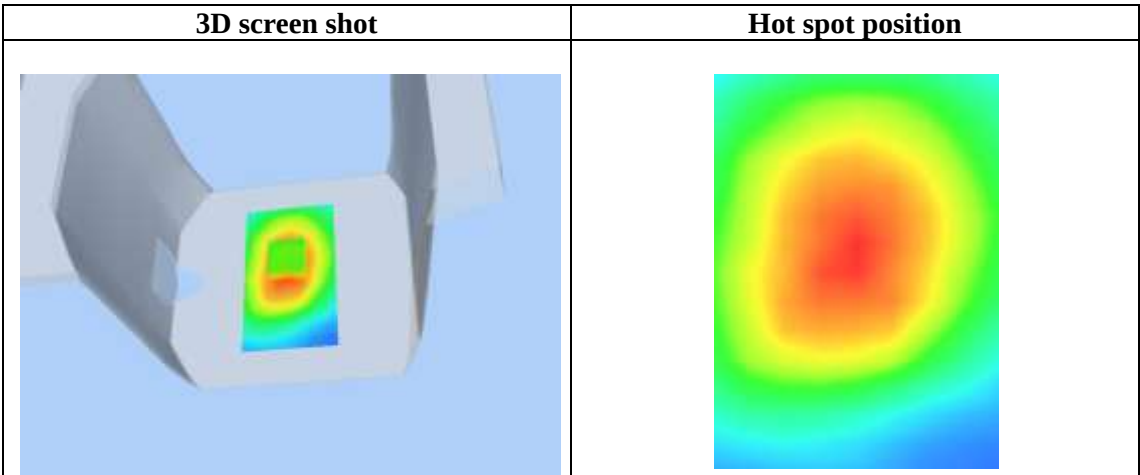
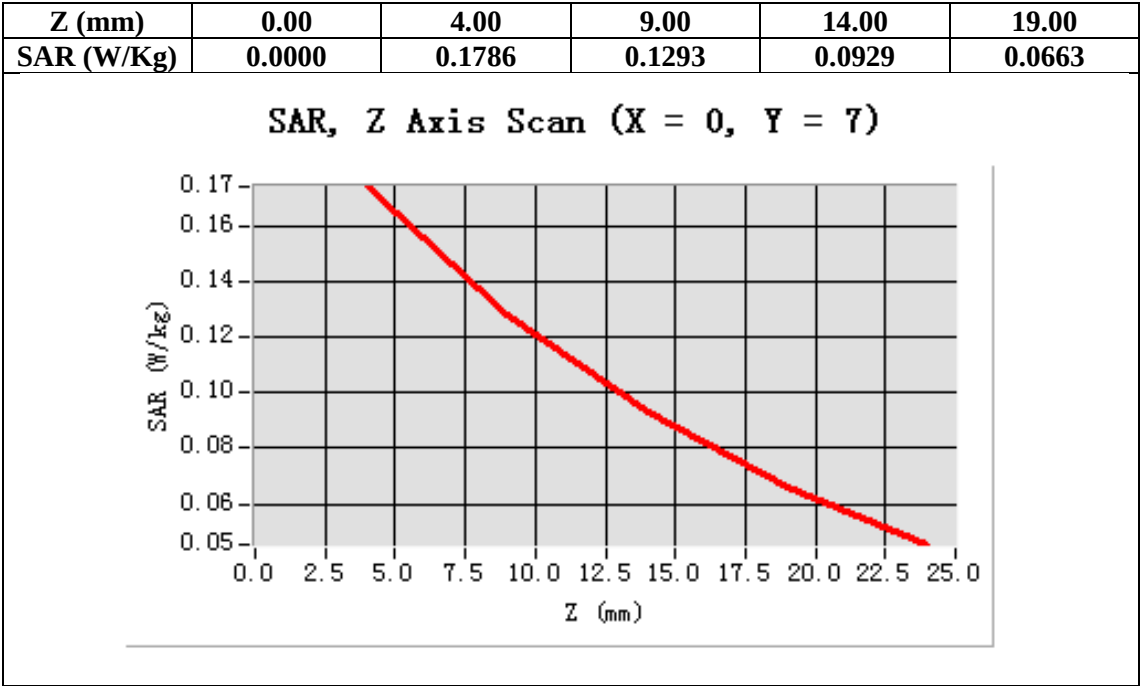
Configuration/802.11b Mid-Body- Front /Zoom Scan: Measurement grid: dx=8mm,
dy=8mm, dz=5mm;

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	Crest factor: 1.0



Maximum location: X=0.00, Y=7.00

SAR 10g (W/Kg)	0.126237
SAR 1g (W/Kg)	0.183729



HOTSPOT MODE

Test Laboratory: AGC Lab

Hotspot Mid-Body-Worn- Back (DTS)

DUT: Mobile Phone; Type: QUE 5.5

Date: July 10,2014

Communication System: Wi-Fi; Communication System Band: Hotspot; Duty Cycle: 1:1; Conv.F=4.31;

Frequency: 2437 MHz; Medium parameters used: $f = 2450$ MHz; $\sigma = 1.93$ mho/m; $\epsilon_r = 52.36$; $\rho = 1000$ kg/m³ ;

Phantom section: Flat Section

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

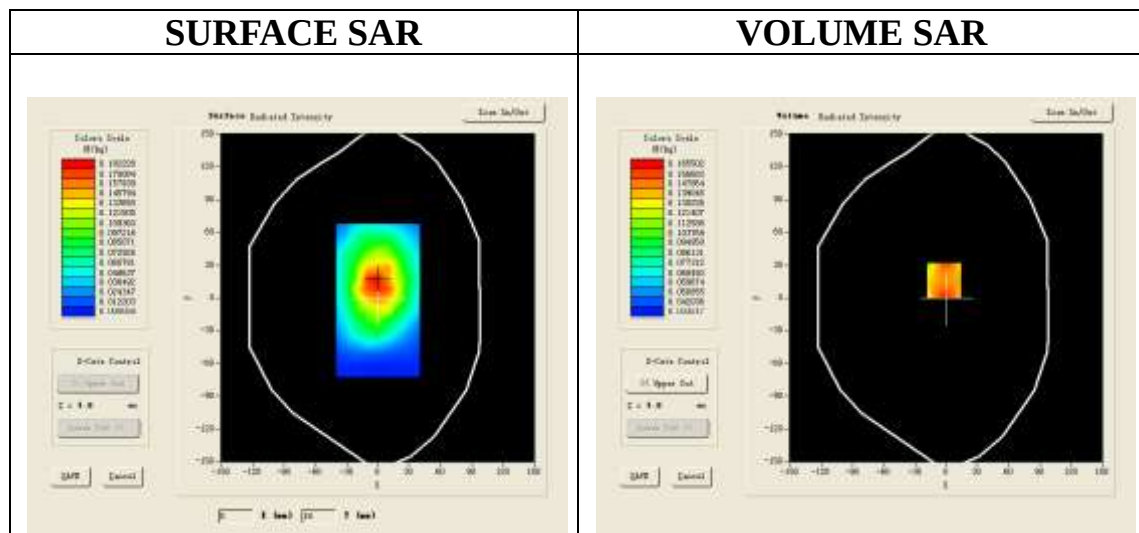
SATIMO Configuration:

- Probe: SSE5; Calibrated: 01/12/2014; Serial No.:SN 22/12 EP159
- 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

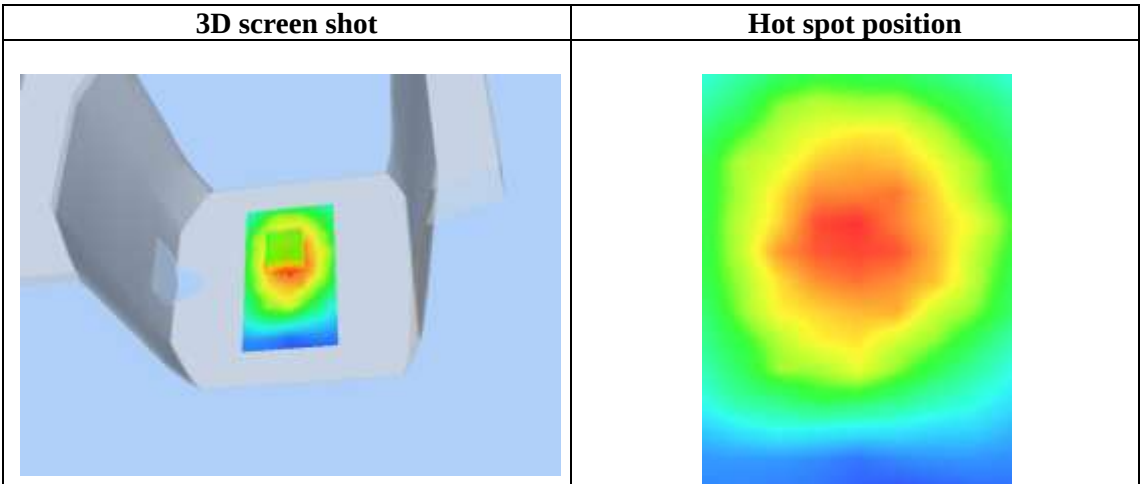
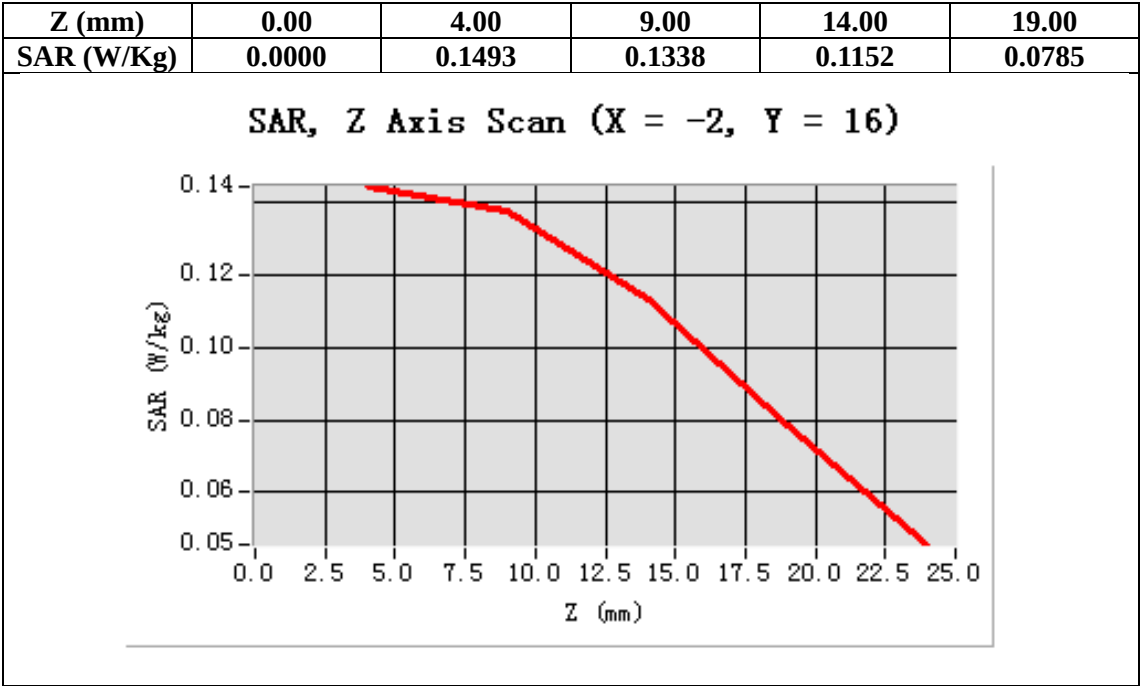
Configuration/Hotspot Mid- Body- Back /Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm;

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	Crest factor: 1.0



Maximum location: X=-2.00, Y=16.00

SAR 10g (W/Kg)	0.123805
SAR 1g (W/Kg)	0.167421



Test Laboratory: AGC Lab
Hotspot Mid-Body -Front (DTS)
DUT: Mobile Phone; Type: QUE 5.5

Date: July 10,2014

Communication System: Wi-Fi; Communication System Band: Hotspot; Duty Cycle: 1:1; Conv.F=4.31;
Frequency: 2437 MHz; Medium parameters used: $f = 2450$ MHz; $\sigma = 1.93$ mho/m; $\epsilon_r = 52.36$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section
Ambient temperature (°C):21, Liquid temperature (°C):21

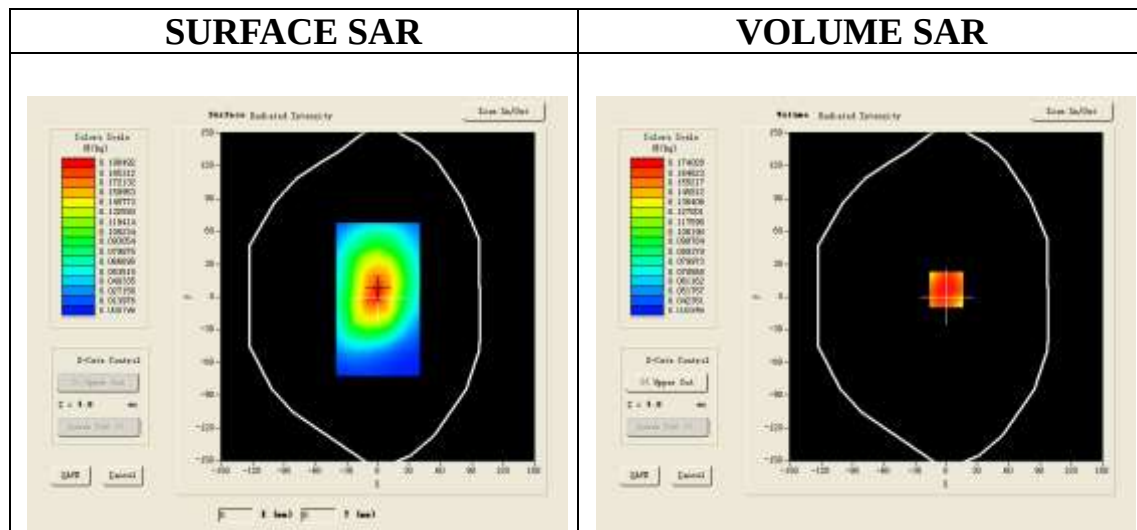
SATIMO Configuration:

- Probe: SSE5; Calibrated: 01/12/2014; Serial No.:SN 22/12 EP159
- 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

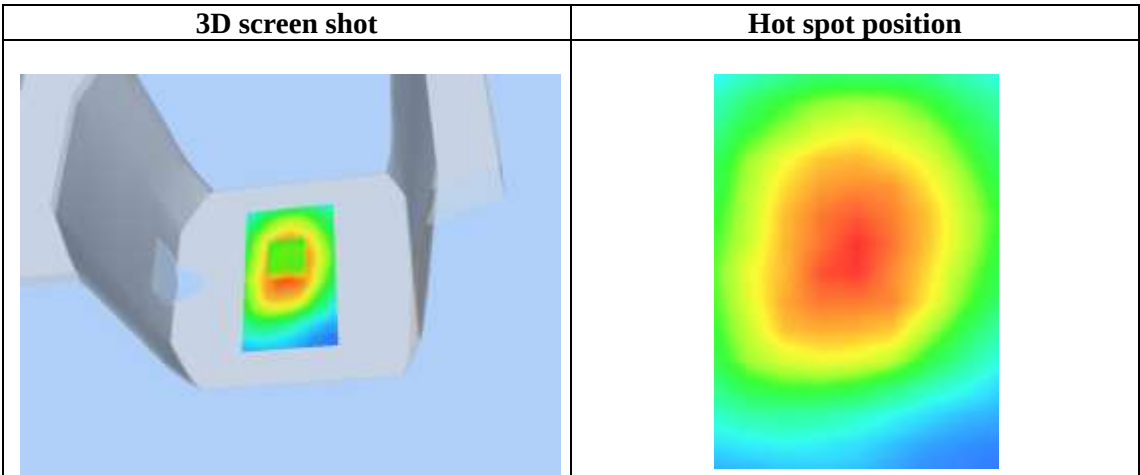
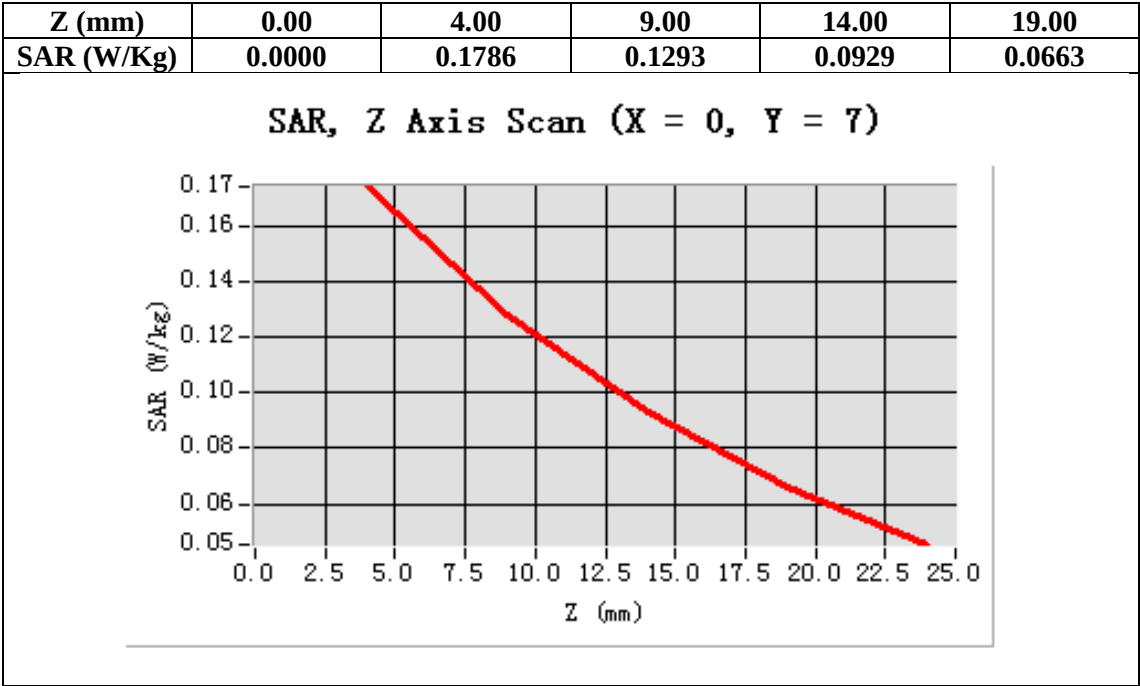
Configuration/Hotspot Mid-Body- Front /Zoom Scan: Measurement grid: dx=8mm, dy=8mm, dz=5mm;

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	Crest factor: 1.0



Maximum location: X=0.00, Y=7.00

SAR 10g (W/Kg)	0.126237
SAR 1g (W/Kg)	0.183729



Repeated Mode

Test Laboratory: AGC Lab

Date: July 10,2014

WCDMA Band II High-Touch-Left (RMC)

DUT: Mobile Phone; Type: QUE 5.5

Communication System: UMTS; Communication System Band: Band II UTRA/FDD ;Duty Cycle:1:1;Conv.F=4.51
Frequency:1852.4 MHz; Medium parameters used: $f = 1900$ MHz; $\sigma = 1.41$ mho/m; $\epsilon_r = 40.16$; $\rho = 1000$ kg/m³ ;
Phantom section: Left Section
Ambient temperature (°C):21, Liquid temperature (°C):21

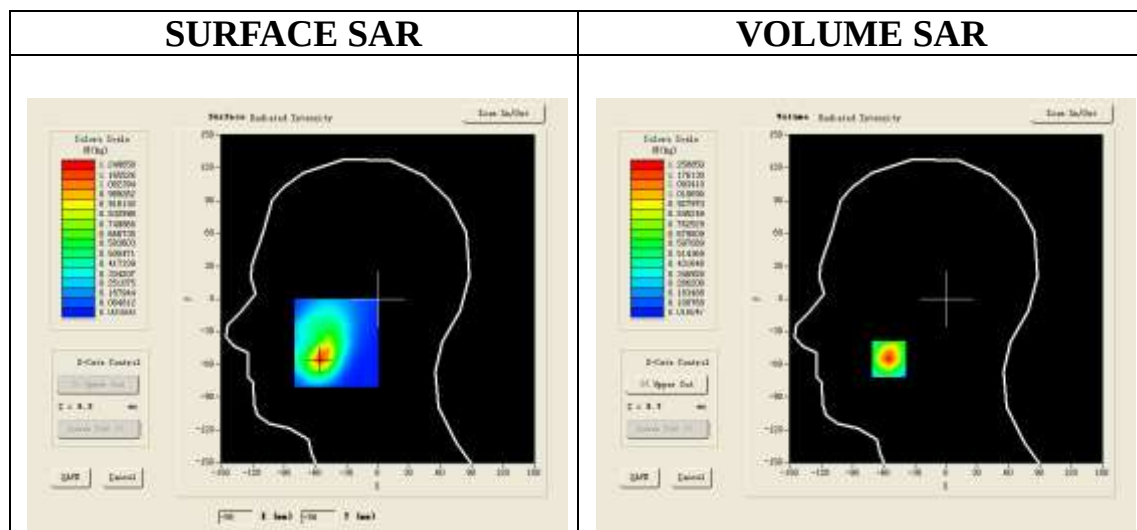
SATIMO Configuration:

- Probe: SSE5; Calibrated: 01/12/2014; Serial No.:SN 22/12 EP159
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: Flat Phantom; Type: Elliptical Phantom
- Measurement SW: OpenSAR V4_02_01

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

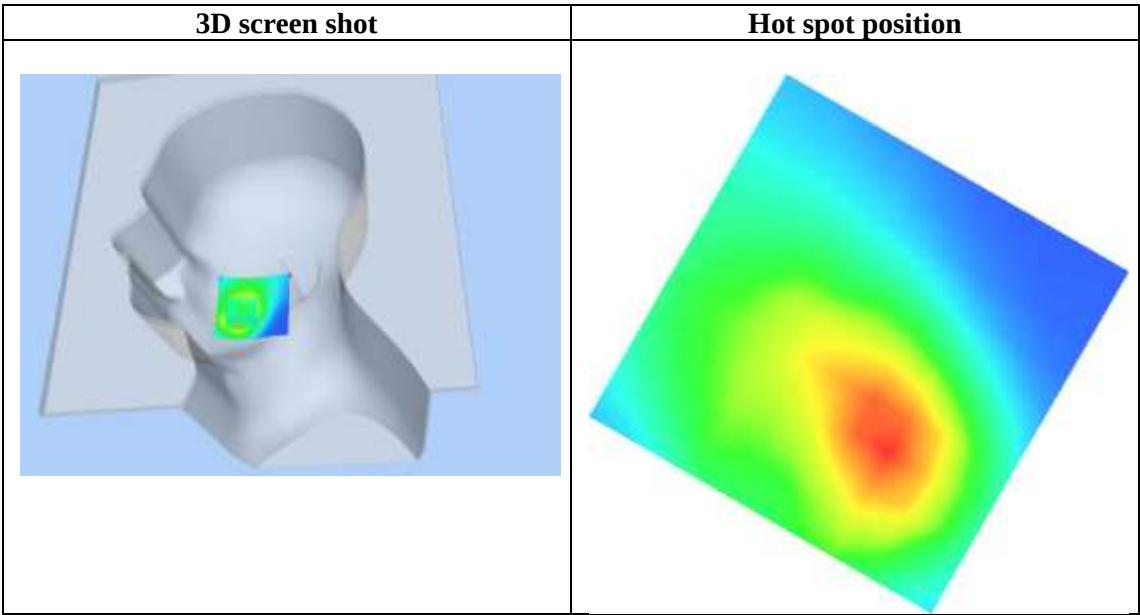
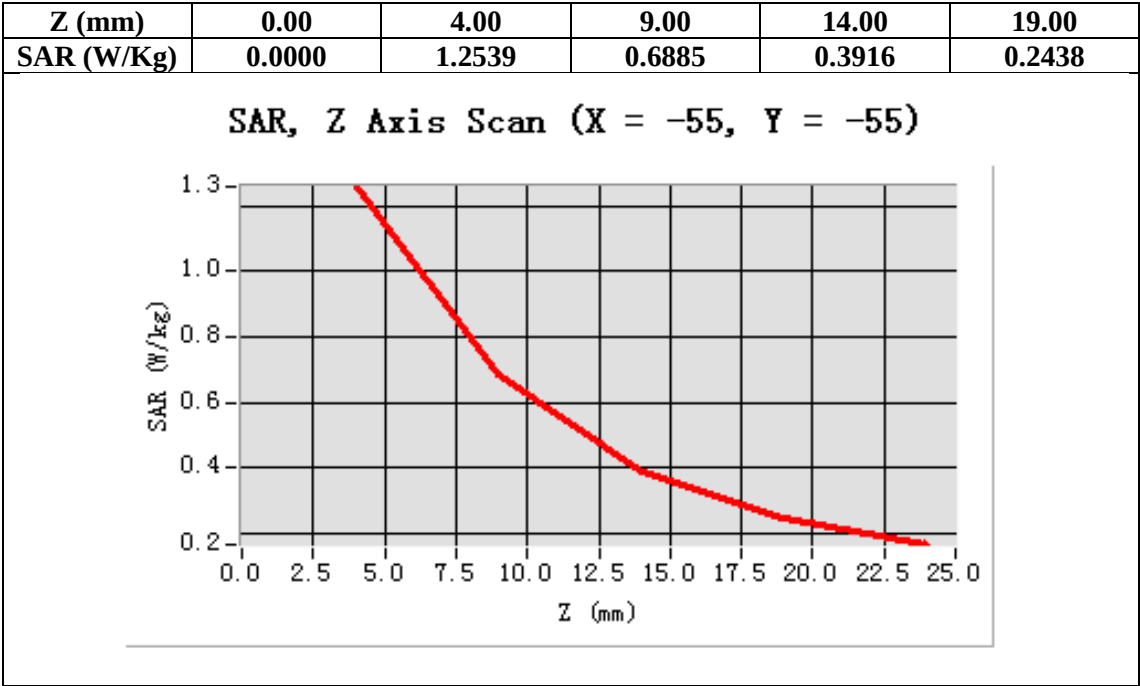
Configuration/ WCDMA Band II High-Touch-Left/Zoom Scan: Measurement grid:
dx=8mm,dy=8mm,dz=5mm;

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	High
Signal	CDMA (Crest factor: 1.0)



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

SAR 10g (W/Kg)	0.602896
SAR 1g (W/Kg)	1.056372



Test Laboratory: AGC Lab
WCDMA Band II Mid-Body-Towards Grounds (RMC 12.2kbps)
DUT: Mobile Phone; **Type:** QUE 5.5

Date: July 10,2014

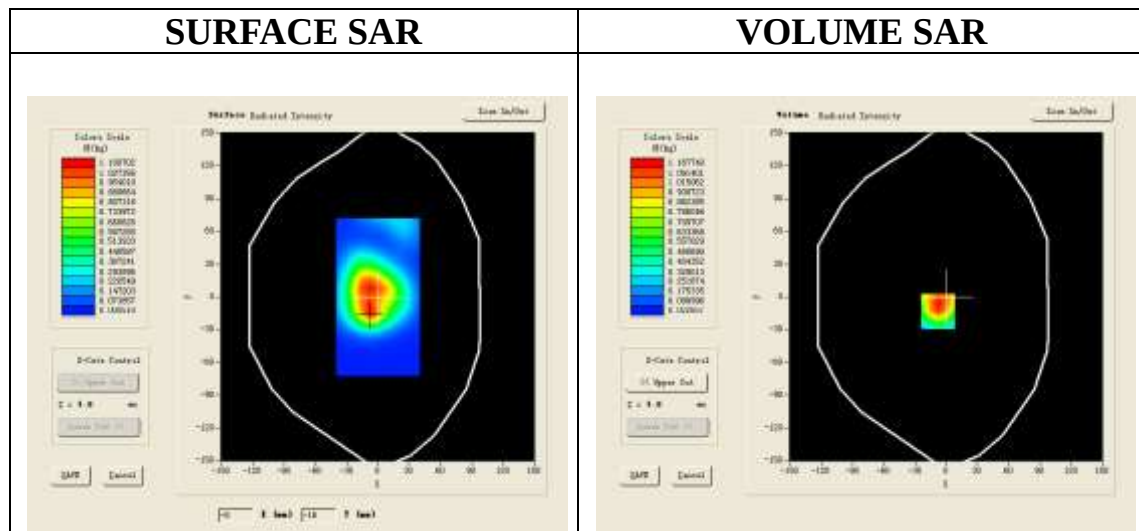
Communication System: UMTS; Communication System Band: Band II UTRA/FDD ;Duty Cycle:1:1; Conv.F=4.45
Frequency: 1880 MHz; Medium parameters used: $f = 1900$ MHz; $\sigma = 1.48$ mho/m; $\epsilon_r = 52.96$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section
Ambient temperature (°C):21, Liquid temperature (°C):21

SATIMO Configuration:

- Probe: SSE5; Calibrated: 01/12/2014; Serial No.:SN 22/12 EP159
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: Flat Phantom; Type: Elliptical Phantom
- Measurement SW: OpenSAR V4_02_01

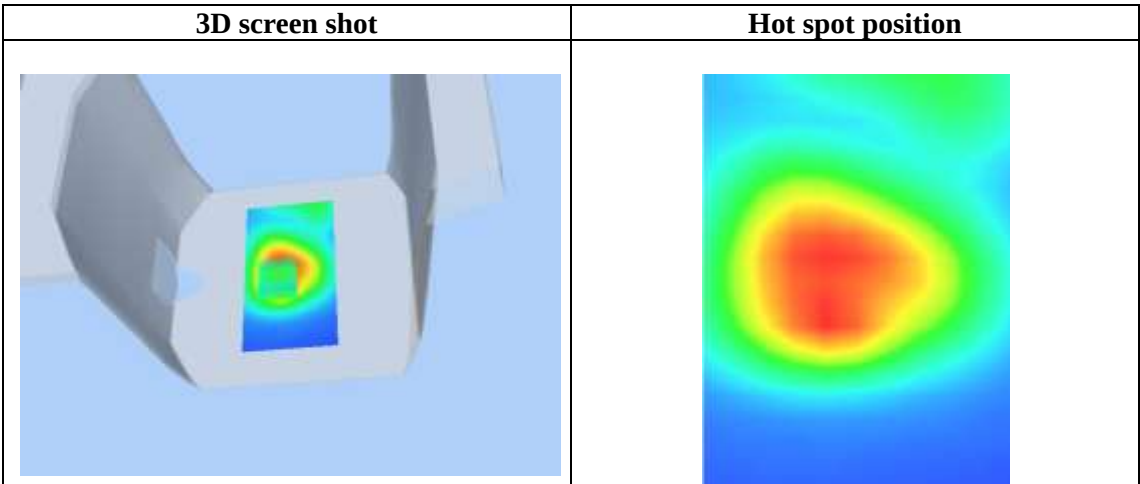
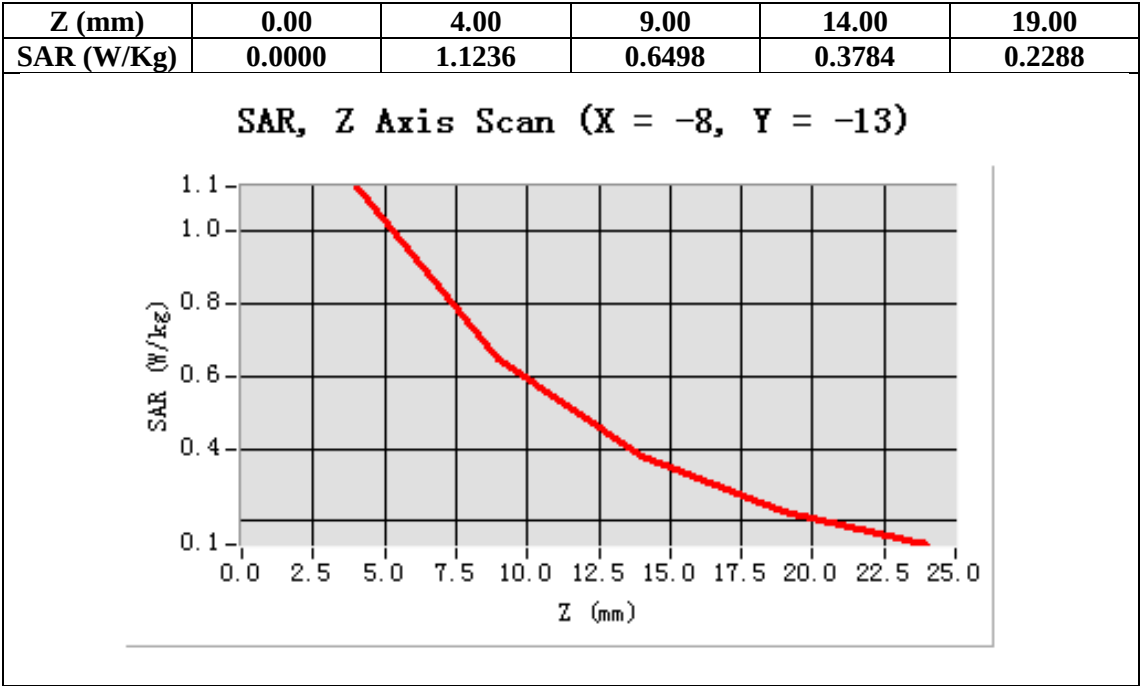
Configuration/ WCDMA band II Mid-Body-back/Area Scan: Measurement grid: dx=8mm, dy=8mm
Configuration/ WCDMA band II Mid-Body-back/Zoom Scan: Measurement grid: dx=8mm, dy=8mm, dz=5mm;

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 II
Channels	Middle
Signal	CDMA (Crest factor: 1.0)



Maximum location: X=-8.00, Y=-13.00

SAR 10g (W/Kg)	0.61237
SAR 1g (W/Kg)	0.97281



Test Laboratory: AGC Lab

Date: July 10,2014

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

DUT: Mobile Phone; Type: QUE 5.5

Communication System: UMTS; Communication System Band: BAND V UTRA/FDD; Duty Cycle:1: 1; Conv.F=5.48
Frequency: 835 MHz; Medium parameters used: $f = 836.6$ MHz; $\sigma = 0.96$ mho/m; $\epsilon_r = 55.19$; $\rho = 1000$ kg/m³ ;
Phantom section: Flat Section
Ambient temperature (°C):21, Liquid temperature (°C):21

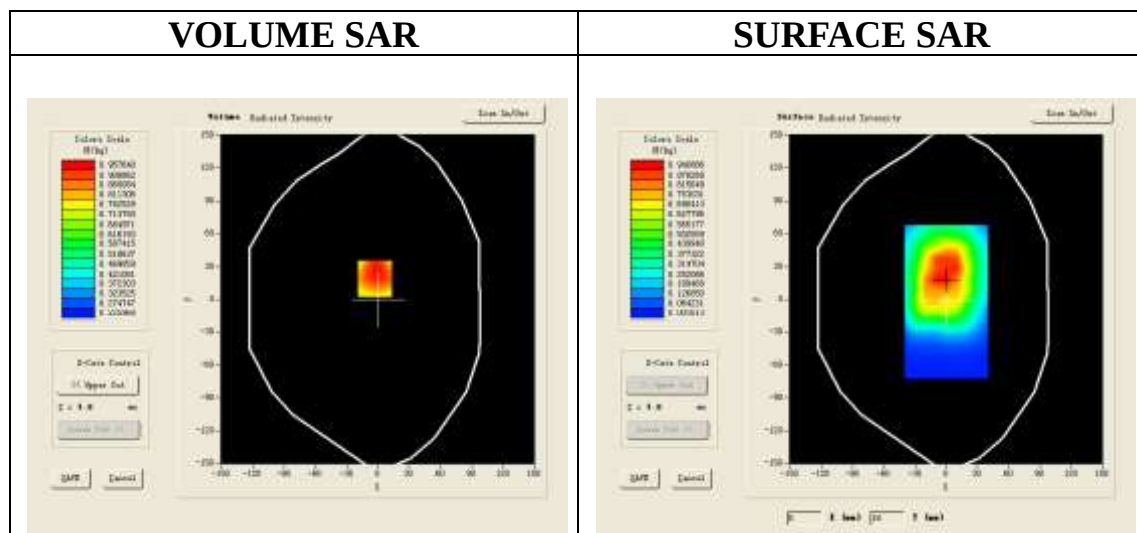
SATIMO Configuration:

- Probe: SSE5; Calibrated: 01/12/2014; Serial No.:SN 22/12 EP159
- 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

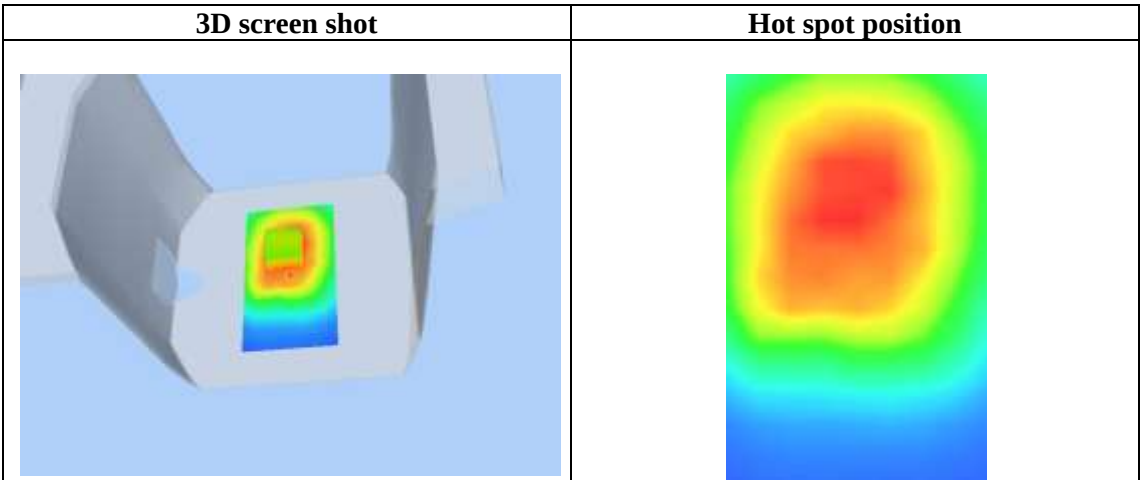
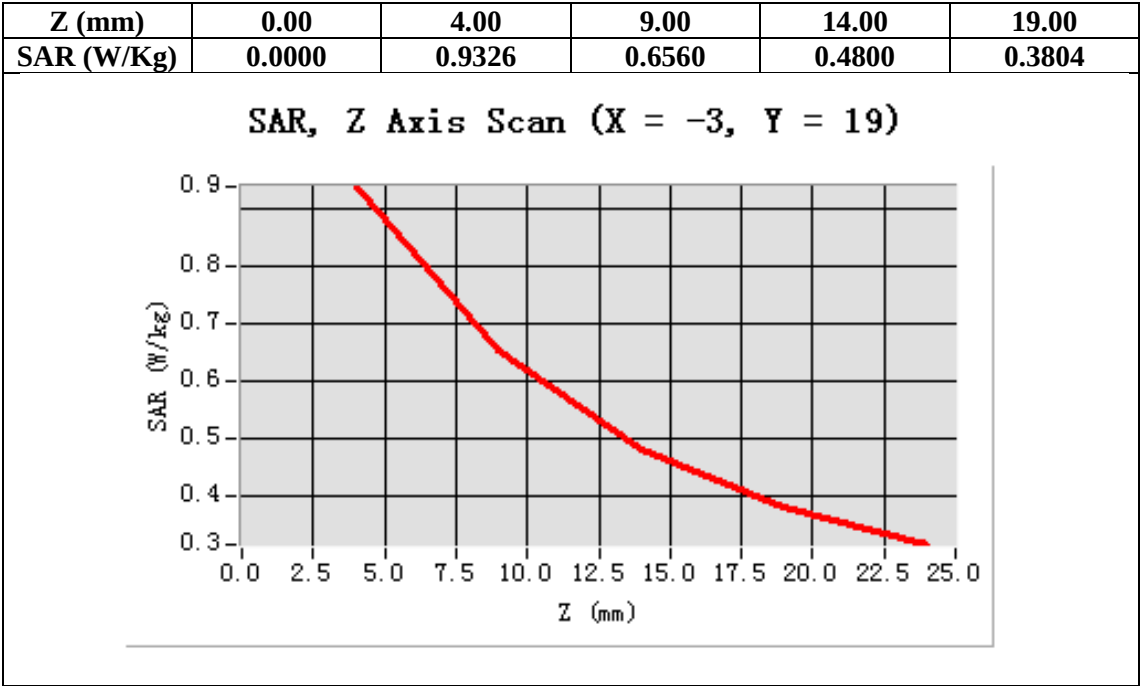
Configuration/ WCDMA Band V Mid-Body-Back/Zoom Scan (5x5x7)/Cube 0: Measurement grid:
dx=8mm,dy=8mm, dz=5mm;

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



Maximum location: X=-3.00, Y=19.00

SAR 10g (W/Kg)	0.647625
SAR 1g (W/Kg)	0.915366



Test Laboratory: AGC Lab
WCDMA Band IV Mid-Body-Towards Grounds (RMC)
DUT: Mobile Phone; **Type:** QUE 5.5

Date: July 10,2014

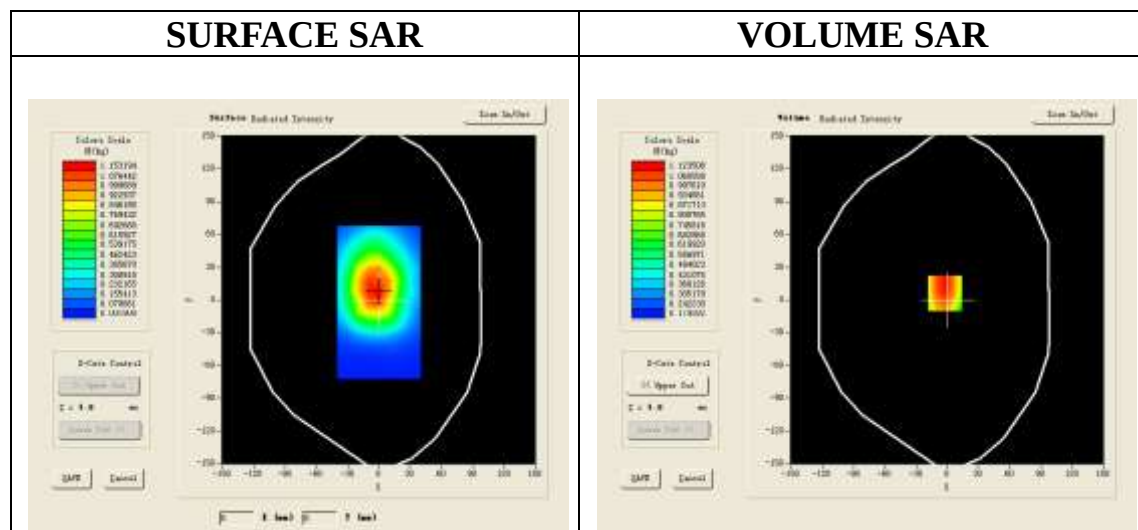
Communication System: UMTS; Communication System Band: BAND IV UTRA/FDD; Duty Cycle:1: 1; Conv.F=4.71
Frequency: 1700 MHz; Medium parameters used: $f = 1732.6\text{MHz}$; $\sigma = 1.50\text{mho/m}$; $\epsilon_r = 53.47$; $\rho = 1000\text{ kg/m}^3$;
Phantom section: Flat Section
Ambient temperature ($^{\circ}\text{C}$):21, Liquid temperature ($^{\circ}\text{C}$):21

SATIMO Configuration:

- Probe: SSE5; Calibrated: 01/12/2014; Serial No.:SN 22/12 EP159
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: Flat Phantom; Type: Elliptical Phantom
- Measurement SW: OpenSAR V4_02_01

Configuration/ WCDMA Band IV Mid-Body-Back/Area Scan (6x8x1): Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$
Configuration/ WCDMA Band IV Mid-Body-Back/Zoom Scan (5x5x7)/Cube 0: Measurement grid:
 $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$;

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



Maximum location: X=-2.00, Y=6.00

SAR 10g (W/Kg)	0.705375
SAR 1g (W/Kg)	0.852973

