Date of Issue: April 11, 2011

ANSI/IEEE Std. C95.1-1992 In accordance with the requirements of FCC Report and Order: ET Docket 93-62, and OET Bulletin 65 Supplement C

FCC SAR TEST REPORT

For

GSM Quad Band GPRS Digital Mobile Phone

Model: i610

Trade Name: Verykool

Issued to

VeryKool USA Inc 4350 Executive Dr.#100, San Diego, CA 92121

Issued by

Compliance Certification Services Inc.

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1. CERTIFICATE OF COMPLIANCE (SAR EVALUATION)

Applicant: VeryKool USA Inc

4350 Executive Dr.#100, San Diego, CA 92121

Manufacturer: SHENZHEN KONKA TELECOMMUNICATION TECHNOLOGY CO.,LTD

No.9008 Shennan Road, Overseas Chinese Town, ShenZhen,

Date of Issue: April 11, 2011

Guangdong, China

Equipment Under Test: GSM Quad Band GPRS Digital Mobile Phone

Trade Name: Verykool

Model Number: i610

Devices supporting GPRS: Class B

Description Test Modes(worst case): SIM1

Date of Test: April 11, 2011

Device Category: PORTABLE DEVICES

Exposure Category: GENERAL POPULATION/UNCONTROLLED EXPOSURE

Application Type: Certification

APPLICABLE STANDARDS									
STANDARD TEST RESULT									
FCC OET 65 Supplement C	No non-compliance noted								
Deviation from Appli	Deviation from Applicable Standard								
None	••								

The device was tested by Compliance Certification Services Inc. in accordance with the measurement methods and procedures specified in OET Bulletin 65 Supplement C (Edition 01-01). The test results in this report apply only to the tested sample of the stated device/equipment. Other similar device/equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Approved by:

Tested by

Hadiif Hoo

RF Manager

Compliance Certification Services Inc.

factivit. 400

Super Wang Test Engineer

Compliance Certification Services Inc

2. EUT DESCRIPTION

Droduct	COM Overal Destal ODDO Divis	al Makila Dhana					
Product	GSM Quad Band GPRS Digital Mobile Phone						
Model Number	610						
Trade Name	Verykool						
Model Discrepancy	N/A						
Frequency Range	GSM / GPRS: 850: 824.2 ~ 848.8 MHz GSM / GPRS: 1900: 1850.2 ~ 1909.8 MHz Bluetooth: 2402 ~ 2480 MHz						
Operating Mode	Maximum continuous output						
Transmit Power(Average)	850 Band: 1900 Band: GSM 850: 31.75 dBm GSM 1900:						
	Bluetooth (GFSK): 3.12 dBm						
Max. SAR (1g):	GSM 850: Head: 0.77 W/kg (Left head 0 Body: 0.37 W/kg (Body position GPRS: 0.34 W/kg (Body position GPRS: 0.68 W/kg (Left head 0 Body: 0.40 W/kg (Body position GPRS: 0.38 W/kg (BPRS: 0.38 W/kg (BP	ion) ition) Cheek position) ion) ition)					
Modulation Technique		4-DQPSK(2 Mbps),8-					
Hardware Version	V1.2						
Software Version	KAAW310_IDC_En_Id_0.01.2	221s					
IMEI	866743000000198						
Antenna Specification	Antenna. Type: GSM: PIFA antenna						
Accessories	Li-ion Battery: Model:KLB100N200 Voltage:3.7V Limited Charge Voltage: 4.2V	,					



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3. REQUIREMENTS FOR COMPLIANCE TESTING DEFINED BY THE FCC

The US Federal Communications Commission has released the report and order "Guidelines for Evaluating the Environmental Effects of RF Radiation", ET Docket No. 93-62 in August 1996. The order requires routine SAR evaluation prior to equipment authorization of portable transmitter devices, including portable telephones. For consumer products, the applicable limit is 1.6 mW/g for an uncontrolled environment and 8.0 mW/g for an occupational/controlled environment as recommended by the ANSI/IEEE standard C95.1-1992. According to the Supplement C of OET Bulletin 65 "Evaluating Compliance with FCC Guide-lines for Human Exposure to Radio frequency Electromagnetic Fields", released on Jun 29, 2001 by the FCC, the device should be evaluated at maximum output power (radiated from the antenna) under "worst-case" conditions for normal or intended use, incorporating normal antenna operating positions, device peak performance frequencies and positions for maximum RF energy coupling.

4. TEST METHODOLOGY

The Specific Absorption Rate (SAR) testing specification, method and procedure for this Mobile Phone is in accordance with the following standards:

47 CFR Part 2 (2.1093)

OET Bulletin 65 Supplement C (Edition 01-01)

IEEE C95.1-1999

IEEE 1528 – 2003 IEEE Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Technique

KDB 248227 D01 SAR measurement procedures for 802.11 a/b/g transmitters KDB 648474 D01 SAR evaluation considerations for handsets with multiple transmitters and antennas

5. DOSIMETRIC ASSESSMENT SETUP

These measurements were performed with the automated near-field scanning system OPENSAR from ATTENNESSA. The system is based on a high precision robot (working range greater than 0.9 m), which positions the probes with a positional repeatability of better than ± 0.02 mm. Special E-and H-field probes have been developed for measurements close to material discontinuity, the sensors of which are directly loaded with a Schottky diode and connected via highly resistive lines to the data acquisition unit. The SAR measurements were conducted with the dosimetric probe EP100 1109 (manufactured by SATIMO), designed in the classical triangular configuration and optimized for dosimetric evaluation. The probe has been calibrated according to the procedure described in [7] with accuracy of better than ±10%. The spherical isotropy was evaluated with the procedure described in [8] and found to be better than ±0.25 dB. The phantom used was the SAM Twin Phantom as described in FCC supplement C, IEEE1528 and CENELEC EN50361.

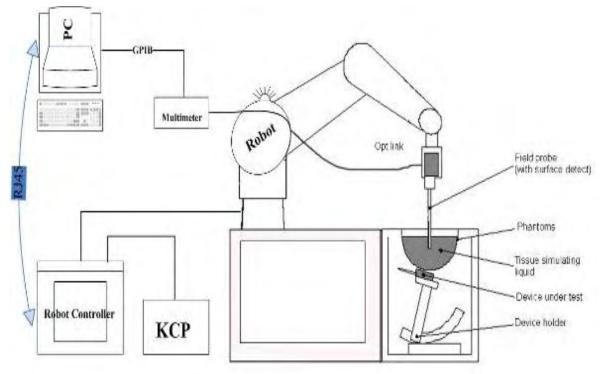
The Tissue simulation liquid used for each test is in according with the FCC OET65 supplement C as listed below.

Ingredients	Frequency (MHz)									
(% by weight)	4	5 <i>0</i>	835		915		1900		2450	
Tissue Type	Head	Body	Head	Body	Head	Body	Head	Body	Head	Body
Water	38.56	51.16	41.45	52.4	41.05	56.0	54.9	40.4	62.7	73.2
Salt (NaCl)	3.95	1.49	1.45	1.4	1.35	0.76	0.18	0.5	0.5	0.04
Sugar	56.32	46.78	56.0	45.0	56.5	41.76	0.0	58.0	0.0	0.0
HEC	0.98	0.52	1.0	1.0	1.0	1.21	0.0	1.0	0.0	0.0
Bactericide	0.19	0.05	0.1	0.1	0.1	0.27	0.0	0.1	0.0	0.0
Triton X-100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	36.8	0.0
DGBE	0.0	0.0	0.0	0.0	0.0	0.0	44.92	0.0	0.0	26.7
Dielectric Constant	43.42	58.0	42.54	56.1	42.0	56.8	39.9	54.0	39.8	52.5
Conductivity (S/m)	0.85	0.83	0.91	0.95	1.0	1.07	1.42	1.45	1.88	1.78

(Ca)

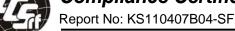
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5.1 MEASUREMENT SYSTEM DIAGRAM



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

- A standard high precision 6-axis robot (KUKA) with controller and software.
- KUKA Control Panel (KCP).
- A dosimetric probe, i.e., an isotropic E-field probe optimized and calibrated for usage in tissue simulating liquid. The probe is equipped with an optical surface detector system.
- The functions of the PC plug-in card are to perform the time critical task such as signal filtering, surveillance of the robot operation fast movement interrupts.
- A computer operating Windows 95.
- OPENSAR software.
- Remote control with teaches pendant and additional circuitry for robot safety such as warning lamps, etc.
- The SAM phantom enabling testing left-hand right-hand and body usage.
- The Position device for handheld EUT.
- Tissue simulating liquid mixed according to the given recipes (see Application Note).
- System validation dipoles to validate the proper functioning of the system.



5.2 SYSTEM COMPONENTS

Comosar is a system that is able to determine the SAR distribution inside a phantom of human being according to different standards. The Comosar system consists of the following items:

- Main computer to control all the system
- 6 axis robot
- Data acquisition system
- Miniature E-field probe
- Phone holder
- Head simulating tissue

The following figure shows the system.

COMOSAR bench

The mobile phone under test operating at the maximum power level is placed in the phone holder, under the phantom, which is filled with head simulating liquid. The E-Field probe measures the electric field inside the phantom. The OpenSAR software computes the results to give a SAR value in a 1g or 10 g mass.



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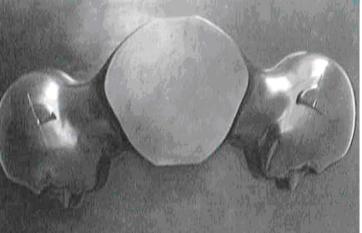
COMOSAR bench

Sam Phantom

The SAM Phantom SAM29 is constructed of a fiberglass shell integrated in a wooden table. The shape of the shell is in compliance with the specification set in IEEE P1528 and CENELEC EN62209-1. The phantom enables the dosimetric evaluation of left and right hand phone usage as well as body mounted usage at the flat phantom region. A cover prevents the evaporation of the liquid. Reference markings on the Phantom allow the complete setup of all predefined phantom positions and measurement grids by manually teaching three points in the robot.

Shell thickness: 2 mm +/-0.2 mm Filling Volume: Approx. 25 liters

Dimensions (H x L x W): 810 x 1000 x 500 mm



Probe

For the measurements the Specific Dosimetric E-Field Probe SN11/09 EP100 with following specifications is used.

Dynamic range: 0.01-100 W/kg

Tip Diameter: 5 mm

Distance between probe tip and sensor center:

2.5 mm

Distance between sensor center and inner phantom surface: 4 mm(repeatability better than

+/- 1 mm)

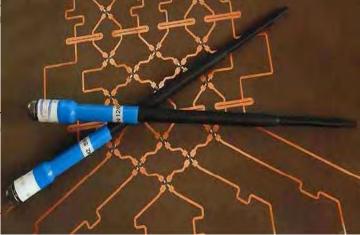
Probe linearity : <0.25 dB Axial Isotropy: <0.25 dB Spherical Isotropy: <0.50 dB

Calibration range: 835 to 2500 MHz for head &

body simulating liquid

Angle between probe axis (evaluation axis) and

surface normal line : less than 30°





Keithley multimeter

In the measurement chain, the Keithley multimeter is located just after the probe. It measures voltages returned by each dipole, results are then sent to the

PC on the GPIB interface.



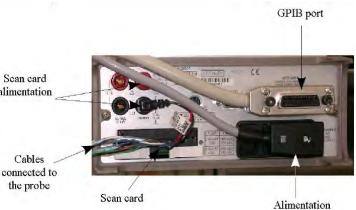
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Scan card

The scan card is an option of the multimeter to make measurements on several channels (10 channels in this case).

Antennessa dosimetric probes are made of 3 orthogonal sensors. For each field measurement, three voltage values must be read. The scan Scan card card, controlled by the PC, will switch between alimentation the 3 channels.

The scan card is installed in the multimeter by Antennessa and should not be removed without Antennessa's approval.



Device holder

The SAR value is approximatively inversely proportional to the square of the distance between the

source and the internal phantom surface. For a source

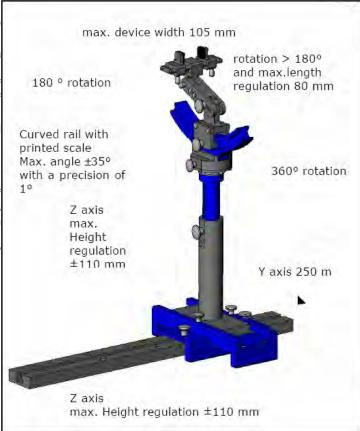
at 5 mm distance, a positioning uncertainty of ±0.5 mm would produce a SAR uncertainty of ±20 %. An

accurate device positioning is therefore essential for

accurate and repeatable measurements.

This Positioning system allows the translation of the mobile phone along the x, y and z axis, as well as the required rotation around the phantom ear, for the 2

positions defined by standards (0° "cheek" position and 15° "tilt" position).



Validation dipoles

Frequencies:

Antennessa has a full range of dipoles corresponding to the frequencies defines by the standards :835, 900, 1800, 1900, 2000, 2450MHz

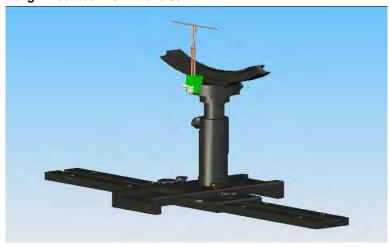
Adaptation: S11 < -20dB in specified validation position.

Maximum input Power: 100W

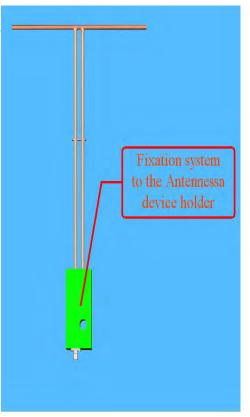
Connectors: SMA

Dimensions: (depends on the dipole frequency)

Height: between 200 mm and 300 mm **Length:** between 25 mm and 83 mm



Positioning system for the validation dipole



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6. EVALUATION PROCEDURES

DATA EVALUATION

The COMOSAR post processing software (OPENSAR) automatically executes the following procedures to calculate the field units from the microvolt readings at the probe connector. The parameters used in the evaluation are stored in the configuration modules of the software:

Probe parameters: - Sensitivity Norm_i, a_{i0} , a_{i1} , a_{i2}

Conversion factor ConvF_i
 Diode compression point dcp_i

Device parameters: - Frequency f

- Crest factor cf

Media parameters: - Conductivity σ

- Density ho

These parameters must be set correctly in the software. They can be found in the component documents or be imported into the software from the configuration files issued for the COMOSAR components. In the direct measuring mode of the multi-meter option, the parameters of the actual system setup are used. In the scan visualization and export modes, the parameters stored in the corresponding document files are used.

The first step of the evaluation is a linearization of the filtered input signal to account for the compression characteristics of the detector diode. The compensation depends on the input signal, the diode type and the DC-transmission factor from the diode to the evaluation electronics. If the exciting field is pulsed, the crest factor of the signal must be known to correctly compensate for peak power. The formula for each channel can be given as:

 $V_i = U_i + U_i^2 \cdot \frac{cf}{dcp_i}$

with V_i = Compensated signal of channel i(i = x, y, z)

 U_i = Input signal of channel i (i = x, y, z)

cf = Crest factor of exciting field (COMOSAR parameter) dcp_i = Diode compression point (COMOSAR parameter)

From the compensated input signals the primary field data for each channel can be evaluated:

E-field probes:

$$E_{i} = \sqrt{\frac{V_{i}}{Norm_{i} \cdot ConvF}}$$

H-field probes:

$$H_i = \sqrt{Vi} \cdot \frac{a_{i10} + a_{i11}f + a_{i12}f^2}{f}$$

with V_i = Compensated signal of channel i(i = x, y, z)

 $Norm_i$ = Sensor sensitivity of channel i (i = x, y, z)

 $\mu V/(V/m)^2$ for E0field Probes

ConvF = Sensitivity enhancement in solution

aij = Sensor sensitivity factors for H-field probes

f = Carrier frequency (GHz)

Ei = Electric field strength of channel i in V/m

Hi = Magnetic field strength of channel i in A/m

The RSS value of the field components gives the total field strength (Hermitian magnitude):

$$\boldsymbol{E}_{tot} = \sqrt{\boldsymbol{E}_{x}^{2} + \boldsymbol{E}_{y}^{2} + \boldsymbol{E}_{z}^{2}}$$

The primary field data are used to calculate the derived field units.

$$SAR = E_{tot}^2 \cdot \frac{\sigma}{\rho \cdot 1000}$$

with SAR = local specific absorption rate in mW/g

 E_{tot} = total field strength in V/m

σ = conductivity in [mho/m] or [Siemens/m]

 ρ = equivalent tissue density in g/cm³

Note that the density is normally set to 1 (or 1.06), to account for actual brain density rather than the density of the simulation liquid.

The power flow density is calculated assuming the excitation field as a free space field.

$$P_{pwe} = \frac{E_{tot}^2}{3770}$$
 or $P_{pwe} = H_{tot}^2 \cdot 37.7$

with P_{pwe} = Equivalent power density of a plane wave in mW/cm²

 E_{tot} = total electric field strength in V/m

 H_{tot} = total magnetic field strength in A/m

SAR EVALUATION PROCEDURES

The procedure for assessing the peak spatial-average SAR value consists of the following steps:

Power Reference Measurement



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The reference and drift jobs are useful jobs for monitoring the power drift of the device under test in the batch process. Both jobs measure the field at a specified reference position, at a selectable distance from the phantom surface. The reference position can be either the selected section's grid reference point or a user point in this section. The reference job projects the selected point onto the phantom surface, orients the probe perpendicularly to the surface, and approaches the surface using the selected detection method.

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Area Scan

The area scan is used as a fast scan in two dimensions to find the area of high field values, before doing a finer measurement around the hot spot. The sophisticated interpolation routines implemented in COMOSAR software can find the maximum locations even in relatively coarse grids. The scan area is defined by an editable grid. This grid is anchored at the grid reference point of the selected section in the phantom. When the area scan's property sheet is brought-up, grid was at to 15 mm by 15 mm and can be edited by a user.

Zoom Scan

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. The default zoom scan measures 5 x 5 x 7 points within a cube whose base faces are centered around the maximum found in a preceding area scan job within the same procedure. If the preceding Area Scan job indicates more then one maximum, the number of Zoom Scans has to be enlarged accordingly (The default number inserted is 1).

Power Drift measurement

The drift job measures the field at the same location as the most recent reference job within the same procedure, and with the same settings. The drift measurement gives the field difference in dB from the reading conducted within the last reference measurement. Several drift measurements are possible for one reference measurement. This allows a user to monitor the power drift of the device under test within a batch process. In the properties of the Drift job, the user can specify a limit for the drift and have COMOSAR software stop the measurements if this limit is exceeded.

SPATIAL PEAK SAR EVALUATION

The procedure for spatial peak SAR evaluation has been implemented according to the IEEE1529 standard. It can be conducted for 1 g and 10 g.

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The COMOSAR system allows evaluations that combine measured data and robot positions, such as:

- maximum search
- extrapolation
- boundary correction
- · peak search for averaged SAR

During a maximum search, global and local maximum searches are automatically performed in 2-D after each Area Scan measurement with at least 6 measurement points. It is based on the evaluation of the local SAR gradient calculated by the Quadratic Shepard's method. The algorithm will find the global maximum and all local maxima within -2 dB of the global maxima for all SAR distributions.

Extrapolation

Extrapolation routines are used to obtain SAR values between the lowest measurement points and the inner phantom surface. The extrapolation distance is determined by the surface detection distance and the probe sensor offset. Several measurements at different distances are necessary for the extrapolation.

Extrapolation routines require at least 10 measurement points in 3-D space. They are used in the Cube Scan to obtain SAR values between the lowest measurement points and the inner phantom surface. The routine uses the modified Quadratic Shepard's method for extrapolation. For a grid using 5x5x7 measurement points with 5mm resolution amounting to 175 measurement points, the uncertainty of the extrapolation routines is less than 1% for 1 g and 10 g cubes.

Boundary effect

For measurements in the immediate vicinity of a phantom surface, the field coupling effects between the probe and the boundary influence the probe characteristics. Boundary effect errors of different dosimetric probe types have been analyzed by measurements and using a numerical probe model. As expected, both methods showed an enhanced sensitivity in the immediate vicinity of the boundary. The effect strongly depends on the probe dimensions and disappears with increasing distance from the boundary. The sensitivity can be approximately given as:

$$S \approx S_o + S_b exp(-\frac{z}{a})cos(\pi \frac{z}{\lambda})$$

Since the decay of the boundary effect dominates for small probes (a<< λ), the cos-term can be omitted. Factors Sb (parameter Alpha in the COMOSAR software) and a (parameter Delta in the COMOSAR software) are assessed during probe calibration and used for numerical compensation of the boundary effect. Several simulations and measurements have confirmed that the compensation is valid for different field and boundary configurations.

This simple compensation procedure can largely reduce the probe uncertainty near boundaries. It works well as long as:

- the boundary curvature is small
- the probe axis is angled less than 30_ to the boundary normal
- the distance between probe and boundary is larger than 25% of the probe diameter
- the probe is symmetric (all sensors have the same offset from the probe tip)

Since all of these requirements are fulfilled in a COMOSAR system, the correction of the probe boundary effect in the vicinity of the phantom surface is performed in a fully automated manner via the measurement data extraction during post processing.



7. MEASUREMENT UNCERTAINTY

Uncertainty Component	Sec.	Tol (+- %)	Prob Dist.	Div.	Ci (1g)	Ci (10g)	1g Ui (+- %)	10g Ui (+- %)	Vi
Measurement System	Ī	•	_						
Probe calibration	E.2.1	4.7	N	1.0	1.0	1.0	4.7	4.7	00
Axial Isotropy	E.2.2	2.5	R	√3	(1-Cp) ^{1/2}	(1-C _P) ^{1/2}	1.0	1.0	00
Hemispherical Isotropy	E.2.2	4.0	R	√3	√Cp	√Cp	1.6	1.6	000
Boundary effect	E.2.3	1.0	R	√3	1.0	1.0	0.6	0.6	00
Linearity	E.2.4	5.0	R	√3	1.0	1.0	2.9	2.9	80
System detection limits	E.2.5	1.0	R	√3	1.0	1.0	0.6	0.6	00
Readout Electronics	E.2.6	1.0	N	1	1.0	1.0	1.0	1.0	00
Reponse Time	E.2.7	0.8	R	√3	1.0	1.0	0.5	0.5	80
Integration Time	E.2.8	2.0	R	√3	1.0	1.0	1.2	1.2	00
RF ambient Conditions-Noise	E.6.1	3.0	R	√3	1.0	1.0	1.7	1.7	00
RF ambient Conditions-Reflections	E.6.1	3.0	R	√3	1.0	1.0	1.7	1.7	00
Probe positioner Mechanical Tolerance	E.6.2	2.0	R	√3	1.0	1.0	1.2	1.2	00
Probe positioning with respect to	E.6.3	0.4	R	√3	1.0	1.0	0.2	0.2	00
Extrapolation, interpolation and integration Algoritms for Max. SAR Evaluation	E.5	1.0	R	√3	1.0	1.0	0.6	0.6	∞
Test sample Related	1	1	1	1				1	
Test Sample Positioning	E.4.2	1.1	N	1.0	1.0	1.0	1.1	1.1	N- 1
Device Holder Uncertainty	E.4.1	5.0	N	1.0	1.0	V	5.0	5.0	N- 1
Output Power Variation - SAR drift measurement	6.6.2	1.0	R	√3	1.0	1.0	1.7	1.7	80
Phantom and Tissue Parameters	1	1	1	1				1	1
Phantom Uncertainty (Shape and thickness tolerances)	E.3.1	4.0	R	√3	1.0	1.0	2.3	2.3	000
Liquid conductivity - deviation from target value	E.3.2	5.0	R	√3	0.6	0.4	1.8	1.2	00
Liquid conductivity - measurement uncertainty	E.3.3	5.0	N	1.0	0.6	0.4	3.2	2.2	М
Liquid permitivity - deviation from target value	E.3.2	3.0	R	√3	0.6	0.5	1.0	0.9	88
Liquid permitivity - measurement uncertainty	E.3.3	2.5	N	1.0	0.6	0.5	1.5	1.2	М
Combined Standard Uncertainty			RSS				9.8	9.5	
Expanded Uncertainty (95% Confidence interval)			K				19.6	19.0	

8. EXPOSURE LIMIT

(A). Limits for Occupational/Controlled Exposure (W/kg)

Whole-Body	Partial-Body	Hands, Wrists, Feet and Ankles
0.4	8.0	20.0

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

Whole-Body	Partial-Body	Hands, Wrists, Feet and Ankles
0.08	1.6	4.0

NOTE: *Whole-Body SAR* is averaged over the entire body, *partial-body SAR* is averaged over any 1 gram of tissue defined as a tissue volume in the shape of a cube. *SAR for hands, wrists, feet and ankles* is averaged over any 10 grams of tissue defined as a tissue volume in the shape of a cube.

Population/Uncontrolled Environments:

are defined as locations where there is the exposure of individuals who have no knowledge or control of their exposure.

Occupational/Controlled Environments:

are defined as locations where there is exposure that may be incurred by people who are aware of the potential for exposure, (i.e. as a result of employment or occupation).

NOTE GENERAL POPULATION/UNCONTROLLED EXPOSURE PARTIAL BODY LIMIT 1.6 W/kg



9. EUT ARRANGEMENT

Please refer to IEEE P1528 illustration below.

9.1 ANTHROPOMORPHIC HEAD PHANTOM

Figure 7-1a shows the front, back and side views of SAM. The point "M" is the reference point for the center of mouth, "LE" is the left ear reference point (ERP), and "RE" is the right ERP. The ERPs are 15 mm posterior to the entrance to ear canal (EEC) along the B-M line (Back-Mouth), as shown in Figure 7-1b. The plane passing through the two ear reference points and M is defined as the Reference Plane. The line N-F (Neck-Front) perpendicular to the reference plane and passing through the RE (or LE) is called the Reference Pivoting Line (see Figure 7-1c). Line B-M is perpendicular to the N-F line. Both N-F and B-M lines should be marked on the external phantom shell to facilitate handset positioning. Posterior to the N-F line, the thickness of the phantom shell with the shape of an ear is a flat surface 6 mm thick at the ERPs. Anterior to the N-F line, the ear is truncated as illustrated in Figure 7-1b. The ear truncation is introduced to avoid the handset from touching the ear lobe, which can cause unstable handset positioning at the cheek.

Figure 7-1a
Front, back and side view of SAM (model for the phantom shell)



Figure 7-1b
Close up side view of phantom showing the ear region

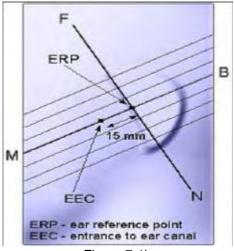


Figure 7-1b
Close up side view of phantom showing the ear region

Figure 7-1c
Side view of the phantom showing relevant markings and the 7
cross sectional plane locations

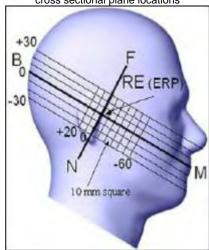


Figure 7-1c
Side view of the phantom showing relevant markings and the 7
cross sectional plane locations



9.2 DEFINITION OF THE "CHEEK/TOUCH" POSITION

The "cheek" or "touch" position is defined as follows:

 Ready the handset for talk operation, if necessary. For example, for handsets with a cover piece, open the cover. (If the handset can also be used with the cover closed both configurations must be tested.)

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- b. Define two imaginary lines on the handset: the vertical centerline and the horizontal line. The vertical centerline passes through two points on the front side of the handset: the midpoint of the width wt of the handset at the level of the acoustic output (point A on Figures 7-2a and 7-2b), and the midpoint of the width wb of the bottom of the handset (point B). The horizontal line is perpendicular to the vertical centerline and passes through the center of the acoustic output (see Figure 7-2a). 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 parallel to the front face of the handset (see Figure 7-2b), especially for clamshell handsets, handsets with flip pieces, and other irregularly-shaped handsets.
- c. Position the handset close to the surface of the phantom such that point A is on the (virtual) extension of the line passing through points RE and LE on the phantom (see Figure 7-2c), such that the plane defined by the vertical center line and the horizontal line of the handset is approximately parallel to the sagittal plane of the phantom.
- d. Translate the handset towards the phantom along the line passing through RE and LE until the handset touches the pinna.
- e. e) While maintaining the handset in this plane, rotate it around the LE-RE line until the vertical centerline is in the plane normal to MB-NF including the line MB (called the reference plane).
- f. Rotate the handset around the vertical centerline until the handset (horizontal line) is symmetrical with respect to the line NF.
- g. While maintaining the vertical centerline in the reference plane, keeping point A on the line passing through RE and LE and maintaining the handset contact with the pinna, rotate the handset about the line NF until any point on the handset is in contact with a phantom point below the pinna (cheek). See Figure 7-2c. The physical angles of rotation should be noted.

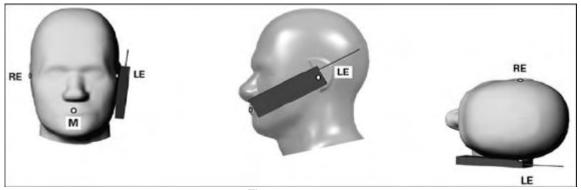


Figure 7.2c

Phone "cheek" or "touch" position. The reference points for the right ear (RE), left ear (LE) and mouth (M), which define the reference plane for handset positioning, are indicated.

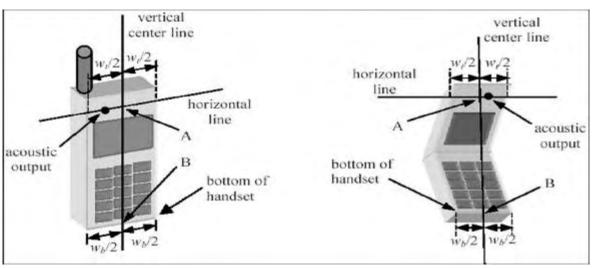


Figure 7.2a

Figure 7.2b

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9.3 DEFINITION OF THE "TILTED" POSITION

The "tilted" position is defined as follows:

- a. Repeat steps (a) (g) of 7.2 to place the device in the "cheek position."
- b. While maintaining the orientation of the handset move the handset away from the pinna along the line passing through RE and LE in order to enable a rotation of the handset by 15 degrees.
- c. Rotate the handset around the horizontal line by 15 degrees.
- d. While maintaining the orientation of the handset, move the handset towards the phantom on a line passing through RE and LE until any part of the handset touches the ear. The tilted position is obtained when the contact is on the pinna. If the contact is at any location other than the pinna (e.g., the antenna with the back of the phantom head), the angle of the handset should be reduced. In this case, the tilted position is obtained if any part of the handset is in contact with the pinna as well as a second part of the handset is contact with the phantom (e.g., the antenna with the back of the head).

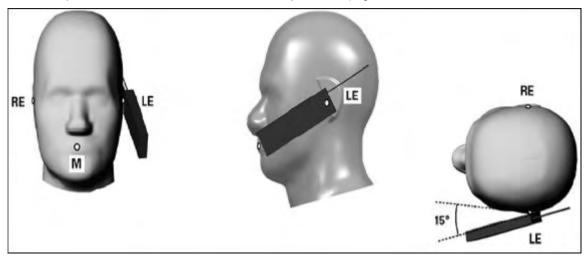


Figure 7-3

Phone "tilted" position. The reference points for the right ear (RE), left ear (LE) and mouth (M), which define the reference plane for handset positioning, are indicated.

10. MEASUREMENT RESULTS

10.1 TEST LIQUIDS CONFIRMATION

SIMULATING LIQUIDS PARAMETER CHECK

The simulating liquids should be checked at the beginning of a series of SAR measurements to determine of the dielectric parameters are within the tolerances of the specified target values

The relative permittivity and conductivity of the tissue material should be within \pm 5% of the values given in the table below. 5% may not be easily achieved at certain frequencies. Under such circumstances, 10% tolerance may be used until more precise tissue recipes are available

IEEE SCC-34/SC-2 P1528 RECOMMENDED TISSUE DIELECTRIC PARAMETERS

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 and extrapolated according to the head parameters specified in P1528

Target Frequency	He	ad	Во	dy
(MHz)	ε _r	σ (S/m)	ε _r	σ (S/m)
150	52.3	0.76	61.9	0.80
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	0.98	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	45.3	5.27	48.2	6.00

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

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LIQUID MEASUREMENT RESULTS

53%

	Head Simulatinf Liquid			Param eters	Target	Maggyrad	Deviation[%]	Limited[%]
I	Frequency	Temp. [°C]	Depth [cm]	rarameters	Target	Measured	Deviation[%]	Limited[%]
ſ	835 MHz	20.30	15.00	Permitivity:	41.50	41.80	0.72	±5
	633 M H Z	20.30	15.00	Conductivity:	0.90	0.89	-1.11	± 5

Date: April 11, 2011 **Ambient condition:** Temperature 21.2°C; Relative humidity: 53%

ĺ	Body	Simulatinf	Liquid	Do som otoso	Tomost	Massaurad	Daviation[0/]	I :m : to d[0/]
ĺ	Frequency	Temp. [°C]	Depth [cm]	Param eters	Target	Measured	Deviation[%]	Limited[%]
ĺ	835 MHz	20.30	15.00	Permitivity:	55.20	55.52	0.58	±5
	OSS MINZ	20.30	13.00	Conductivity:	0.97	0.97	0.00	± 5

Date: April 11, 2011 **Ambient condition:** Temperature 21°C; Relative humidity: 54%

Неас	Head Simulating Liquid		Danamatana	Towast	Magazinad	Deviation[%]	Limitad[0/]
Frequency	Temp. [°C]	Depth (cm)	Parameters	Target	Measured	Deviation[%]	Limited[%]
1000 MHz	1900 MHz 20.40 15.00	15.00	Permiti vit y:	40.00	39.18	-2.05	± 5
1900 MHz		15.00	Conductivity:	1.40	1.42	1.43	± 5

Date: April 11, 2011 **Ambient condition:** Temperature 21°C; Relative humidity: 54%

Body Simulating Liquid		Parameters	Target	Managemad	Deviation[%]	Limitad[0/]	
Frequency	Temp. [°C]	Depth (cm)	Parameters	Target	Measured	Deviation[%]	Limited[%]
1900 MHz	20.40	15.00	Permiti vit y:	53.30	53.76	0.86	± 5
1900 MHZ	20.40	13.00	Conductivity:	1.52	1.53	0.66	± 5



10.2 SYSTEM PERFORMANCE CHECK

The system performance check is performed prior to any usage of the system in order to guarantee reproducible results. The system performance check verifies that the system operates within its specifications of $\pm 10\%$. The system performance check results are tabulated below. And also the corresponding SAR plot is attached as well in the SAR plots files.

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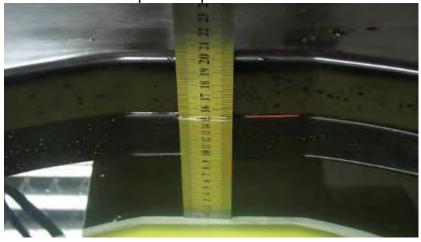
IEEE P1528 Recommended Reference Value

IEEE F1326 Recommended Reference Value							
Frequency (MHz)	1 g SAR	10 g SAR	Local SAR at surface (Above feed point)	Local SAR at surface (y=2cm offset from feed point)			
300	3.0	2.0	4.4	2.1			
450	4.9	3.3	7.2	3.2			
835	9.5	6.2	14.1	4.9			
900	10.8	6.9	16.4	5.4			
1450	29.0	16.0	50.2	6.5			
1800	38.1	19.8	69.5	6.8			
1900	38.8	20.4	67.6	6.6			
2000	41.1	21.1	74.6	6.5			
2450	52.4	24.0	104.2	7.7			
3000	63.8	25.7	140.2	9.5			

SYSTEM PERFORMANCE CHECK MEASUREMENT CONDITIONS

- The measurements were performed in the flat section of the SAM twin phantom filled with head and body simulating liquid of the following parameters.
- The OPENSAR system with an E-field probe EP_100 SN:1109 was used for the measurements.
- The dipole was mounted on the small tripod so that the dipole feed point was positioned below the
 center marking of the flat phantom section and the dipole was oriented parallel to the body axis (the
 long side of the phantom). The standard measuring distance was 15 mm (below 1 GHz) and
 10 mm (above 1 GHz) from dipole center to the simulating liquid surface.
- The coarse grid with a grid spacing of 10mm was aligned with the dipole.
- Special 7x7x7 fine cube was chosen for cube integration (dx= 5 mm, dy= 5 mm, dz= 5 mm).
- Distance between probe sensors and phantom surface was set to 2.5 mm.
- The dipole input power was 1W±3%.
- The results are normalized to 1 W input power.

The depth of Liquid must above 15cm



SYSTEM PERFORMANCE CHECK RESULTS

Dipole: DIPOLE850 SN:SN 48/05 DIPC32

Date: April 11, 2011 Ambient condition: Temperature 21.2°C; Relative humidity: 53%

Head Simulatinf Liquid		Donom otono	Toncot	Maaannad	Daviation [0/]	Limitad[0/]	
Frequency	Temp. [°C]	Depth [cm]	Parameters	Target	Measured	Deviation[%]	Limited[%]
		Permitivity:	41.50	41.80	0.72	±5	
835 MHz	835 MHz 20.30	15.00	Conductivity:	0.90	0.89	-1.11	± 5
		1 g S A R:	9.39	9.37	-0.21	± 5	

Dipole: DIPOLE850 SN:SN 48/05 DIPC32

Date: April 11, 2011 Ambient condition: Temperature 21.2°C; Relative humidity: 53%

Body Simulatinf Liquid		Daramatara	Torgot	Maggyrad	Daviation [0/]	Limitad[%]	
Frequency	Temp. [°C]	Depth [cm]	Parameters	Target	Measured	Deviation[%]	Limited[%]
		Permitivity:	55.20	55.52	0.58	±5	
835MHz	835MHz 20.30	15.00	Conductivity:	0.97	0.97	0.00	± 5
		1 g S A R:	9.62	9.56	-0.62	± 5	

Dipole: DIPOLE1900 SN:SN 48/05 DIPG35

Date: April 11, 2011 Ambient condition: Temperature 21°C; Relative humidity: 54%

Head Simulatinf Liquid		Dorom otors	Target	Measured	Deviation[%]	Limited[%]	
Frequency	Temp. [°C]	Depth [cm]	Parameters	rarget	Measured	Deviation[%]	Limited[%]
		Permitivity:	40.00	39.18	-2.05	±5	
1900MHz	1900MHz 20.40	15.00	Conductivity:	1.40	1.42	1.43	± 5
		1 g S A R:	39.60	40.20	1.52	± 5	

Dipole: DIPOLE1900 SN:SN 48/05 DIPG35

Date: April 11, 2011 Ambient condition: Temperature 21°C; Relative humidity: 54%

Body Simulatinf Liquid		Daramatara	Target	Measured	Daviation [0/]	Limitad[0/]	
Frequency	Temp. [°C]	Depth [cm]	Parameters	rarget	Measured	Deviation[%]	Limited[%]
			Permitivity:	53.30	53.76	0.86	±5
1900MHz	20.40	15.00	Conductivity:	1.52	1.53	0.66	± 5
			1 g S A R:	41.60	41.65	0.12	± 5



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10.3 EUT TUNE-UP PROCEDURES

The following procedures had been used to prepare the EUT for the SAR test.

• To setup the desire channel frequency and the maximum output power. A Radio Communication Tester "CMU200" was used to program the EUT.

GSM 850 / GPRS850

Network Support: GSM / GPRS

Main Service: Circuit Switched / Packet data

Power Setting: 33dBm / 33dBm Class: 12 (4 Up / 1 Down)

GSM 1900 / GPRS 1900

Network Support: GSM / GPRS

Main Service: Circuit Switched / Packet data

Power Setting: 30dBm / 30dBm

Class: 12 (4 Up / 1Down)

 Maximum conducted power was measured by replacing the antenna with an adapter for conductive measurement.

Bluetooth

- a. The client supplied a special driver to program the EUT, allowing it to continually transmit the specified maximum power and change the channel frequency.
- b. The conducted power was measured at the high, middle and low channel frequency before and after the SAR measurement.
- c. During SAR test, the highest output channel per band measured first, and then if necessary, the other channels were measured according to the normal procedures.

Conducted output power (Average)(dBm)

GSN	1 850	GSM mode	
824.20	Ch 128	31.58	
836.60	Ch 190	31.75	
848.8	Ch 251	31.70	
PCS 1900			
PCS	1900	GSM mode	
PCS 1850.20	1900 Ch 512	GSM mode 28.09	
	ı		



10.4 KDB 648474 SAR HANDSETS MULTI XMITER ASSESSMENT

Summary of Measurement Results (Bluetooth function)

The distance between BT antenna and GSM antenna is 5.8cm. The location of the antennas inside mobile phone is shown below:

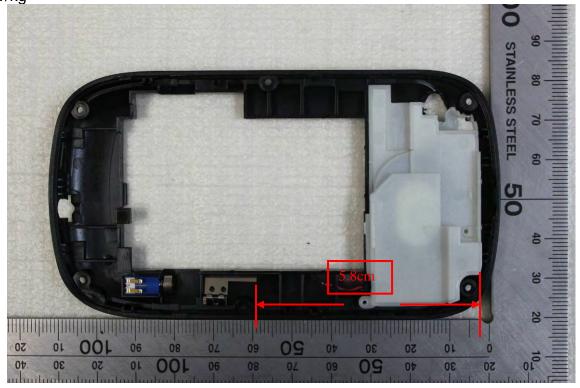
Bluetooth output power (Average) (dBm)

Mode	DATA1 1M					
Frequency	before test	after test				
2402 MHz	2.66	N/A				
2441 MHz	3.12	SAR measurement is not				
2480 MHz	2.24	required				

Mode	DATA1 3M				
Frequency	before test	after test			
2402 MHz	2.88	N/A			
2441 MHz	2.23	SAR measurement is not			
2480 MHz	2.27	required			

Ps. (1)3.12dBm=2.05mW is less than 24.58mW(60/f), so **Bluetooth stand-alone SAR is not required**.

According to the output power measurement result and the SAR values, we can draw the conclusion that : stand-alone SAR and simultaneous transmission SAR are not required for BT transmitter, because the all SAR measurement results of GSM transmitter are < 1.2W/kg





10.5 SAR MEASUREMENT RESULTS Left head / Right Head mode:



Left Cheek position



Left Tilted position



Right Cheek position



Right Tilted position

SM 850 , Duty	y Cycle: 12.5%,	Depth of liquid	d: 15.0 cm		
Antonna	Frequency		Liquid	SAR (1g)	Limit
Antenna	Channel	MHz	Temp_°C	(W/kg)	(W/kg)
Fixed	128	824.2	20.3	0.61	
Fixed	190	836.6	20.3	0.53	
Fixed	251	848.8	20.3	0.41	
Fixed	128	824.2	20.3	0.37	
Fixed	190	836.6	20.3	0.56	
Fixed	251	848.8	20.3	0.46	1.6
Fixed	128	824.2	20.3	0.61	1.0
Fixed	190	836.6	20.3	0.53	
Fixed	251	848.8	20.3	0.77	
Fixed	128	824.2	20.3	0.41	
Fixed	190	836.6	20.3	0.35	
Fixed	251	848.8	20.3	0.51	
	Antenna Fixed Fixed	Antenna Frequence Channel Channel Fixed 128 Fixed 251 Fixed 128 Fixed 190 Fixed 251 Fixed 190 Fixed 190 Fixed 251 Fixed 128 Fixed 190 Fixed 190 Fixed 190 Fixed 251	Antenna Channel MHz Fixed 128 824.2 Fixed 190 836.6 Fixed 251 848.8 Fixed 128 824.2 Fixed 190 836.6 Fixed 128 824.2 Fixed 190 836.6 Fixed 251 848.8 Fixed 128 824.2 Fixed 128 824.2 Fixed 190 836.6 Fixed 190 836.6 Fixed 251 848.8	Antenna Frequency Liquid Temp_°C Fixed 128 824.2 20.3 Fixed 190 836.6 20.3 Fixed 251 848.8 20.3 Fixed 128 824.2 20.3 Fixed 190 836.6 20.3 Fixed 128 824.2 20.3 Fixed 190 836.6 20.3 Fixed 251 848.8 20.3 Fixed 128 824.2 20.3 Fixed 128 824.2 20.3 Fixed 190 836.6 20.3	Frequency Liquid Temp_°C SAR (1g) (W/kg) Fixed 128 824.2 20.3 0.61 Fixed 190 836.6 20.3 0.53 Fixed 251 848.8 20.3 0.41 Fixed 128 824.2 20.3 0.37 Fixed 190 836.6 20.3 0.56 Fixed 251 848.8 20.3 0.46 Fixed 128 824.2 20.3 0.61 Fixed 190 836.6 20.3 0.53 Fixed 251 848.8 20.3 0.77 Fixed 128 824.2 20.3 0.41 Fixed 190 836.6 20.3 0.41 Fixed 190 836.6 20.3 0.35 Fixed 190 836.6 20.3 0.35 Fixed 190 836.6 20.3 0.35 Fixed 251 848.8



Left head / Right Head mode:



Left Cheek position



Left Tilted position

EUT Position Antenna

Left Tilted

Left Tilted

Left Tilted

Fixed

Fixed

Fixed

Test mode: GSM1900, Duty Cycle: 12.5%, Crest Factor: 8

Frequency



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Right Cheek position



Right Tilted position

SAR (1g)

0.52

0.49

0.32

Depth of liquid: 15.0 cm

Liquid

20.4

20.4

LOT TOOLIGIT	, antornia	Channel	MHz	Temp_°C	(W/kg)	
Right Cheek	Fixed	512	1850.2	20.4	0.56	
Right Cheek	Fixed	661	1880.0	20.4	0.38	
Right Cheek	Fixed	810	1910.0	20.4	0.51	
Right Tilted	Fixed	512	1850.2	20.4	0.54	
Right Tilted	Fixed	661	1880.0	20.4	0.52	Limit
Right Tilted	Fixed	810	1910.0	20.4	0.44	(W/kg)
Left Cheek	Fixed	512	1850.2	20.4	0.55	
Left Cheek	Fixed	661	1880.0	20.4	0.51	
Left Cheek	Fixed	810	1910.0	20.4	0.68	
Left Tilted	Fixed	512	1850.2	20.4	0.52	

1850.2

1880.0

1910.0

Notes: 1) Please refer to attachment for the result presentation in plot format.

512

661

810



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Body position:



Body position face up



Body position face down

Test mode: GSM 850 , Duty Cycle: 12.5%, Crest Factor: 8 Depth of liquid: 15.0 cm						cm		
FLIT Desition Antonno	Antenna	Frequ	uency	Liquid	SAR (1g)	Limit		
EUT Position	Antenna	Channel	MHz	Temp_°C	(W/kg)	(W/kg)		
Face Up	Fixed	128	824.2	20.3	0.37			
Face Up	Fixed	190	836.6	20.3	0.35			
Face Up	Fixed	251	848.8	20.3	0.34	4.0		
Face Down	Fixed	128	824.2	20.3	0.32	1.6		
Face Down	Fixed	190	836.6	20.3	0.30			
Face Down	Fixed	251	848.8	20.3	0.31			
	D 11 (1) 11 450							

Test mode: **GPRS 850**, Duty Cycle: 50%, Crest Factor: 2 Depth of liquid: 15.0 cm

EUT Position Antenna	Antenna	Frequency		Liquid	SAR (1g)	Limit
2011 0011011	7 intornia	Channel	MHz	Temp_°C	(W/kg)	(W/kg)
Face Up	Fixed	128	824.2	20.3	0.33	
Face Up	Fixed	190	836.6	20.3	0.28	
Face Up	Fixed	251	848.8	20.3	0.32	1.6
Face Down	Fixed	128	824.2	20.3	0.29	1.6
Face Down	Fixed	190	836.6	20.3	0.34	
Face Down	Fixed	251	848.8	20.3	0.31	

Notes: 1) Front panel / Bottom face in parallel with flat phantom

2) Please refer to attachment for the result presentation in plot format.



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Body position:



Body position face up



Body position face down

Test mode: GSM 1900 , Duty Cycle: 12.5%, Crest Factor: 8 Depth of liquid: 15.0 cm						
EUT Position	Antenna	Frequency		Liquid	SAR (1g)	Limit
EUT POSITION	Antenna	Channel	MHz	Temp_°C	(W/kg)	(W/kg)
Face Up	Fixed	512	1850.2	20.4	0.37	
Face Up	Fixed	661	1880.0	20.4	0.38	
Face Up	Fixed	810	1910.0	20.4	0.40	1.6
Face Down	Fixed	512	1850.2	20.4	0.34	1.6
Face Down	Fixed	661	1880.0	20.4	0.35	
Face Down	Fixed	810	1910.0	20.4	0.36	

Test mode: **GPRS 1900**, Duty Cycle: 50%, Crest Factor: 2 Depth of liquid: 15.0 cm

EUT Position	Antenna	Frequency		Liquid	SAR (1g)	Limit
EUT FUSITION	Antenna	Channel	MHz	Temp_°C	(W/kg)	(W/kg)
Face Up	Fixed	512	1850.2	20.4	0.29	
Face Up	Fixed	661	1880.0	20.4	0.37	
Face Up	Fixed	810	1910.0	20.4	0.38	1.6
Face Down	Fixed	512	1850.2	20.4	0.28	1.0
Face Down	Fixed	661	1880.0	20.4	0.36	
Face Down	Fixed	810	1910.0	20.4	0.27	

Notes: 1) Front panel / Bottom face in parallel with flat phantom

2) Please refer to attachment for the result presentation in plot format.



11. EUT PHOTO







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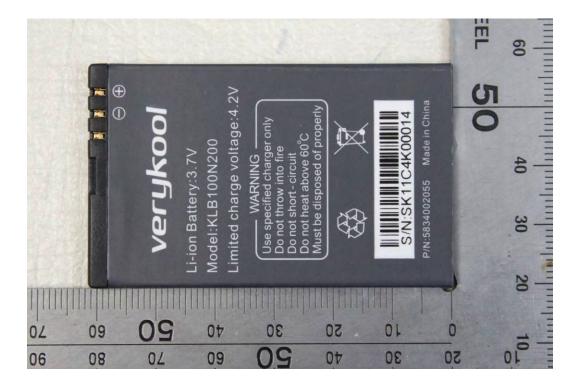












12. EQUIPMENT LIST & CALIBRATION STATUS

Name of Equipment	Manufacturer	Type/Model	Serial Number	Calibration Due
PC	HP	PV 3.06GHz	375052-AA1	N/A
Signal Generator	Agilent	E8257C	MY43321570	03/24/2012
MultiMeter	Keithley	2000	1015843	05/25/2011
S-Parameter Network Analyzer	Agilent	E5071B	MY42301382	03/24/2012
Wireless Communication Test Set	R&S	CMU200	SN:B23-03291	05/25/2011
Power Meter	Agilent	E4416A	QB41292714	03/24/2012
E-field PROBE	ANTENNESSA	EP_100	SN1109	05/04/2011
DIPOLE 835	ANTENNESSA	DIPC32	SN 48/05	02/09/2012
DIPOLE 1900	ANTENNESSA	DIPG35	SN 48/05	02/09/2012
POSITIONING DEVICE	ANTENNESSA	MSH_14	SN 41_05	N/A
DUMMY PROBE	ANTENNESSA	DP_12	SN 39_05	N/A
SAM PHANTOM	ANTENNESSA	SAM29	SN 41_05	N/A
PHANTON WOOD TABLE	ANTENNESSA	N/A	N/A	N/A
6 AXIS ROBOT	KUKA	KR3	846428	N/A
ROBOT KRC	KUKA	KCP2	01436	N/A
CHANELS SCAN CARD	KEITHLEY	2000	2000-172-01B	N/A
PROBE/ROBOT POSITIONING DEVICE	ANTENNESSA	MSH14	SN 41_05	N/A
LIQUID CALIBRATION KIT	ANTENNESSA	41/05 OCP9	00425167	N/A



13. FACILITIES

All measurement facilities used to collect the measurement data are located at

No.10, Weiye Rd., Innovation Park, Eco & Tec. Development Part, Kunshan City, Jiangsu Province, China.

Date of Issue: April 11, 2011

14. REFERENCES

- [1] Federal Communications Commission, \Report and order: Guidelines for evaluating the environ-mental effects of radiofrequency radiation", Tech. Rep. FCC 96-326, FCC, Washington, D.C. 20554, 1996.
- [2] FCC 47 CFR Part 2 "Frequency Allocations and Radio Treaty Matters; General Rules and Regulations"
- [3] IEEE Std. C95.1-1999, "IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz", 1999
- [4] IEEE Std. 1528-2003, "Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", December 2003
- [5] FCC OET Bulletin 65 (Edition 97-01) Supplement C (Edition 01-01), "Evaluating Compliance with FCC Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields", June 2001
- [6] SATIMO ANTENNESSA System Handbook
- [7] FCC KDB 248227 D01 v01r02, "SAR Measurement Procedures for 802.11 a/b/g Transmitters", May 2007
- [8] FCC KDB 447498 D01 v04, "Mobile and Portable Device RF Exposure Procedures and Equipment Authorization Policies", November 2009
- [9] FCC KDB 447498 D02 v02, "SAR Measurement Procedures for USB Dongle Transmitters", November 2009
- [10] FCC KDB 616217 D01 v01r01, "SAR Evaluation Considerations for Laptop Computers with Antennas Built-in on Display Screens", November 2009
- [11] FCC KDB 616217 D03 v01, "SAR Evaluation Considerations for Laptop/Notebook/Notebook and Tablet Computers", November 2009
- [12] FCC KDB 648474 D01 v01r05, "SAR Evaluation Considerations for Handsets with Multiple Transmitters and Antennas", September 2008
- [13] FCC KDB 941225 D01 v02, "SAR Measurement Procedures for 3G Devices CDMA 2000 / Ev-Do / WCDMA / HSDPA / HSPA", October 2007
- [14] FCC KDB 941225 D03 v01, "Recommended SAR Test Reduction Procedures for GSM / GPRS / EDGE", December 2008
- [15] FCC KDB 941225 D04 v01, "Evaluating SAR for GSM/(E)GPRS Dual Transfer Mode", January 27 2010

15. ATTACHMENTS

Exhibit	Content
1	System Performance Check Plots
2	SAR Test Plots
3	Probe calibration report EP100 sn11/09
4	Dipole calibration report DIPOLE850 SN:SN 48/05 DIPC32
5	Dipole calibration report DIPOLE1900 SN: SN 48/05 DIPG35

END OF REPORT

System Performance Check Data (850MHz Head)

Date of Issue: April 11, 2011

Date of measurement: April 11, 2011

Zoom Scan: 5 x 5 x 7 dx=5mm dy=5mm dz=5mm

Z Axis Scan: 1 x 1 x 21 dx=20mm dy=20mm dz=5mm

A. Experimental conditions.

Phantom File	surf_sam_plan.txt, Adaptative 2 max
Phantom	Validation plane
Device Position	Head
Band	GSM850
Channels	Middle
Signal	CW

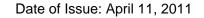
B. Instrumentations.

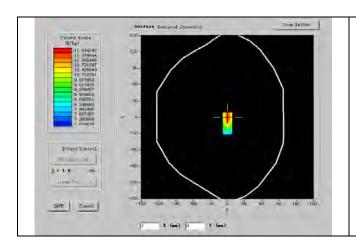
Di Hibti amentation	76	
PC	HP (Pentium(R) V3.06GHz, SN:375052-AA1)	Calibration Due: N/A
Wireless Communication Test Set	R&S (CMU200, SN:B23-03291)	Calibration Due: 05/25/2011
Network Analyzer	Agilent(E5071B, MY42301382)	Calibration Due: 03/24/2012
Voltmeter	Keithley (2000, SN:1015843)	Calibration Due: 05/25/2011
Signal Generator	Agilent (E8257C, SN:MY43321570)	Calibration Due: 03/24/2012
Amplifier	Mini-Circuits (ZHL-42, SN:110405)	Calibration Due: 07/29/2011
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibration Due: 03/24/2012
Probe	Antennessa (SN:SN_1109_EP_100)	Calibration Due: 05/04/2011
DIPOLE 835	Antennessa (DIPC32,SN 48/05)	Calibration Due: 02/09/2012
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibration Due: N/A
Liquid	Antennessa	Calibration Due: N/A
Measurement SW	OPEN SAR V2.1	Calibration Due: N/A

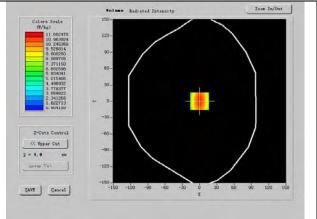
C. SAR Measurement Results

Frequency (MHz)	835.000024
Relative permitivity (real part)	41.796807
Relative permitivity (imaginary part)	20.020350
Conductivity (S/m)	0.886423
Variation (%)	-0.470000
Ambient Temperature:	21.2 °C
Liquid Temperature:	20.3 °C
ConvF:	20.66, 20.51, 28.36
Crest factor:	1:1

SURFACE SAR VOLUME SAR



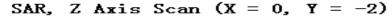


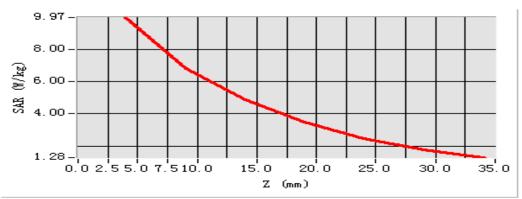


Maximum location: X=0.00, Y=-5.00

SAR 10g (W/Kg)	6.331547
SAR 1g (W/Kg)	9.367938

Z Axis Scan





System Performance Check Data (850MHz Head)

Date of Issue: April 11, 2011

Date of measurement: April 11, 2011

Zoom Scan: 5 x 5 x 7 dx=5mm dy=5mm dz=5mm

Z Axis Scan: 1 x 1 x 21 dx=20mm dy=20mm dz=5mm

A. Experimental conditions.

Phantom File	surf_sam_plan.txt, Adaptative 2 max
Phantom	Validation plane
Device Position	Body
Band	GSM850
Channels	Middle
Signal	CW

B. Instrumentations.

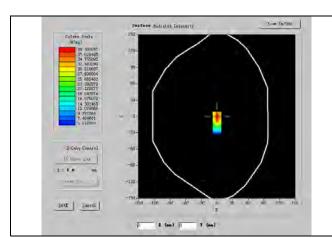
	<u></u>	
PC	HP (Pentium(R) V3.06GHz,	Calibration Due: N/A
	SN:375052-AA1)	
Wireless Communication	R&S (CMU200, SN:B23-03291)	Calibration Due: 05/25/2011
Test Set		
Network Analyzer	Agilent(E5071B, MY42301382)	Calibration Due: 03/24/2012
Voltmeter	Keithley (2000, SN:1015843)	Calibration Due: 05/25/2011
Signal Generator	Agilent (E8257C, SN:MY43321570)	Calibration Due: 03/24/2012
Amplifier	Mini-Circuits (ZHL-42,	Calibration Due: 07/29/2011
	SN:110405)	
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibration Due: 03/24/2012
Probe	Antennessa (SN:SN_1109_EP_100)	Calibration Due: 05/04/2011
DIPOLE 835	Antennessa (DIPC32,SN 48/05)	Calibration Due: 02/09/2012
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibration Due: N/A
Liquid	Antennessa	Calibration Due: N/A
Measurement SW	OPEN SAR V2.1	Calibration Due: N/A

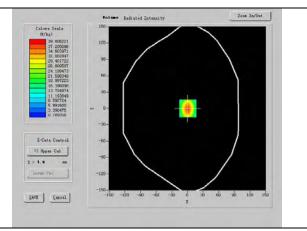
Frequency (MHz)	835.000024
Relative permitivity (real part)	55.517942
Relative permitivity (imaginary part)	21.866249
Conductivity (S/m)	0.961646
Variation (%)	-0.740000
Ambient Temperature:	21.2 °C
Liquid Temperature:	20.3 °C
ConvF:	20.00, 19.88, 27.77
Crest factor:	1:1

SURFACE SAR	VOLUME SAR



Report No: KS110407B04-SF Date of Issue: April 11, 2011

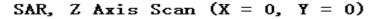


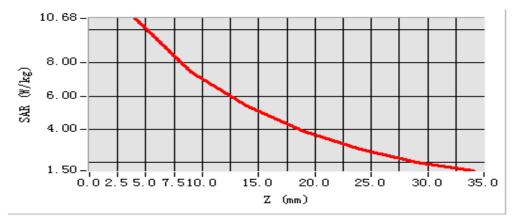


Maximum location: X=0.00, Y=-5.00

SAR 10g (W/Kg)	6.821470
SAR 1g (W/Kg)	9.559126

Z Axis Scan





System Performance Check Data (1900MHz Head)

Date of Issue: April 11, 2011

Date of measurement: April 11, 2011

Zoom Scan: 5 x 5 x 7 dx=5mm dy=5mm dz=5mm

Z Axis Scan: 1 x 1 x 21 dx=20mm dy=20mm dz=5mm

A. Experimental conditions.

Phantom File	surf_sam_plan.txt, Adaptative 2 max
Phantom	Validation plane
Device Position	Body
Band	GSM1900
Channels	Middle
Signal	CW

B. Instrumentations.

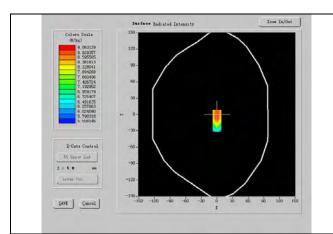
PC	HP (Pentium(R) V3.06GHz,	Calibration Due: N/A
	SN:375052-AA1)	
Wireless Communication Test Set	R&S (CMU200, SN:B23-03291)	Calibration Due: 05/25/2011
Network Analyzer	Agilent(E5071B, MY42301382)	Calibration Due: 03/24/2012
Voltmeter	Keithley (2000, SN:1015843)	Calibration Due: 05/25/2011
Signal Generator	Agilent (E8257C, SN:MY43321570)	Calibration Due: 03/24/2012
Amplifier	Mini-Circuits (ZHL-42,	Calibration Due: 07/29/2011
	SN:110405)	
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibration Due: 03/24/2012
Probe	Antennessa (SN:SN_1109_EP_100)	Calibration Due: 05/04/2011
DIPOLE 1900	Antennessa (DIPG35,SN 48/05)	Calibration Due: 02/09/2012
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibration Due: N/A
Liquid	Antennessa	Calibration Due: N/A
Measurement SW	OPEN SAR V2.1	Calibration Due: N/A

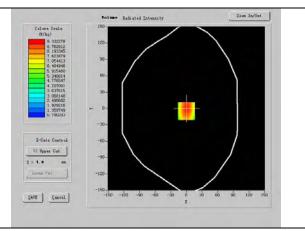
Frequency (MHz)	1900.000000
Relative permitivity (real part)	39.172980
Relative permitivity (imaginary part)	13.506150
Conductivity (S/m)	1.418709
Variation (%)	-0.460000
Ambient Temperature	21 °C
Liquid Temperature	20.4 °C
ConvF	41.05, 42.35, 55.45
Crest factor	1:1

SURFACE SAR	VOLUME SAR



Report No: KS110407B04-SF Date of Issue: April 11, 2011



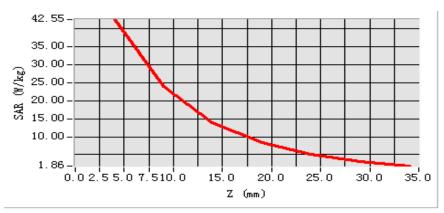


Maximum location: X=0.00, Y=-5.00

SAR 10g (W/Kg)	21.131205
SAR 1g (W/Kg)	40.198274

Z Axis Scan

SAR, Z Axis Scan (X = 0, Y = 0)



System Performance Check Data (1900MHz Head)

Date of Issue: April 11, 2011

Date of measurement: April 11, 2011

Zoom Scan: 5 x 5 x 7 dx=5mm dy=5mm dz=5mm

Z Axis Scan: 1 x 1 x 21 dx=20mm dy=20mm dz=5mm

A. Experimental conditions.

Phantom File	surf_sam_plan.txt, Adaptative 2 max
Phantom	Validation plane
Device Position	Body
Band	GSM1900
Channels	Middle
Signal	CW

B. Instrumentations.

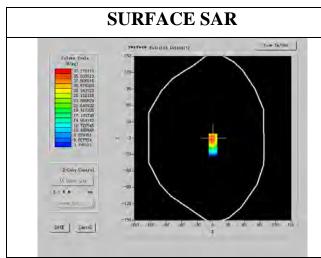
PC	HP (Pentium(R) V3.06GHz, SN:375052-AA1)	Calibration Due: N/A
Wireless Communication Test Set	R&S (CMU200, SN:B23-03291)	Calibration Due: 05/25/2011
Network Analyzer	Agilent(E5071B, MY42301382)	Calibration Due: 03/24/2012
Voltmeter	Keithley (2000, SN:1015843)	Calibration Due: 05/25/2011
Signal Generator	Agilent (E8257C, SN:MY43321570)	Calibration Due: 03/24/2012
Amplifier	Mini-Circuits (ZHL-42,	Calibration Due: 07/29/2011
	SN:110405)	
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibration Due: 03/24/2012
Probe	Antennessa (SN:SN_1109_EP_100)	Calibration Due: 05/04/2011
DIPOLE 1900	Antennessa (DIPG35,SN 48/05)	Calibration Due: 02/09/2012
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibration Due: N/A
Liquid	Antennessa	Calibration Due: N/A
Measurement SW	OPEN SAR V2.1	Calibration Due: N/A

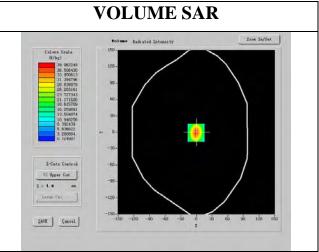
Frequency (MHz)	1900.000000
Relative permitivity (real part)	53.750756
Relative permitivity (imaginary part)	13.691050
Conductivity (S/m)	1.529226
Variation (%)	-0.450000
Ambient Temperature	21 °C
Liquid Temperature	20.4 °C
ConvF	40.42, 41.12, 54.75



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Crest factor 1:1



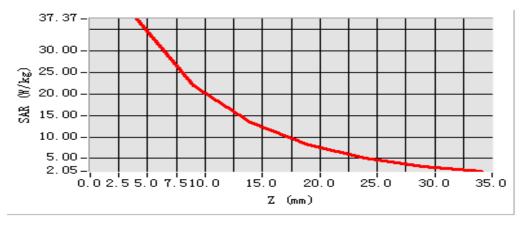


Maximum location: X=0.00, Y=-1.00

SAR 10g (W/Kg)	20.231245
SAR 1g (W/Kg)	41.641640

Z Axis Scan

SAR, Z Axis Scan (X = 0, Y = -1)



I. 850MHz Band RESULTS

TYPE	<u>PARAMETERS</u>
	Measurement 1: Left Head with Cheek device position on Low Channel in GSM850 mode
	Measurement 2: Left Head with Cheek device position on Middle Channel in GSM850 mode
	Measurement 3: Left Head with Cheek device position on High Channel in GSM850 mode
	Measurement 4: Left Head with Tilt device position on Low Channel in GSM850 mode
	Measurement 5: Left Head with Tilt device position on Middle Channel in GSM850 mode
	Measurement 6: Left Head with Tilt device position on High Channel in GSM850 mode
	Measurement 7: Right Head with Cheek device position on Low Channel in GSM850 mode
	Measurement 8: Right Head with Cheek device position on Middle Channel in GSM850 mode
	Measurement 9: Right Head with Cheek device position on High Channel in GSM850 mode
	Measurement 10: Right Head with Tilt device position on Low Channel in GSM850 mode
	Measurement 11: Right Head with Tilt device position on Middle Channel in GSM850 mode
	Measurement 12: Right Head with Tilt device position on High Channel in GSM850 mode
<u>Phone</u>	Measurement 13: Front Side toward phantom 15mm, Low Channel in GSM850 mode
	Measurement 14: Front Side toward phantom 15mm, MiddleChannel in GSM850 mode
	Measurement 15: Front Side toward phantom 15mm, High Channel in GSM850 mode
	Measurement 16: Back Side toward phantom 15mm, Low Channel in GSM850 mode
	Measurement 17: Back Side toward phantom 15mm, Middle Channel in GSM850 mode
	Measurement 18: BackSide toward phantom 15mm, High Channel in GSM850 mode
	Measurement 19: Front Side toward phantom 15mm, Low Channel in GPRS850 mode
	Measurement 20: Front Side toward phantom 15mm, Middle Channel in GPRS850 mode
	Measurement 21: Front Side toward phantom 15mm, High Channel in GPRS850 mode
	Measurement 22: Back Side toward phantom 15mm, Low Channel in GPRS850 mode
	Measurement 23: Back Side toward phantom 15mm, Middle Channel in GPRS850 mode
	Measurement 24: Back Side toward phantom 15mm, High Channel in GPRS850 mode

Date of Issue: April 11, 2011

Date of measurement: April 11, 2011

A. Experimental conditions.

Phantom File	zinf15.txt, Adaptative 2 max
Phantom	Left Head
Device Position	Cheek
Band	GSM850
Channels	Low
Signal	GSM

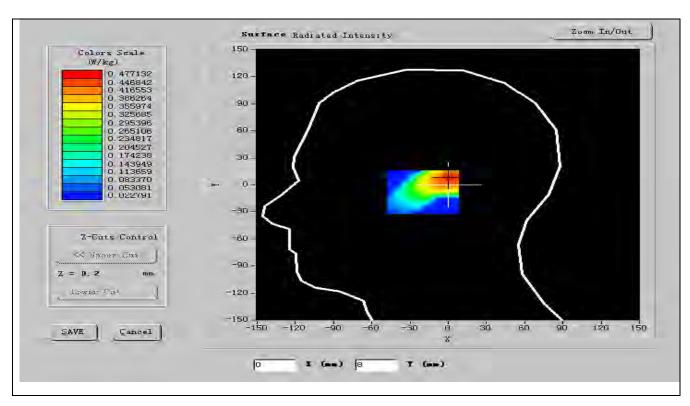
B. Instrumentations.

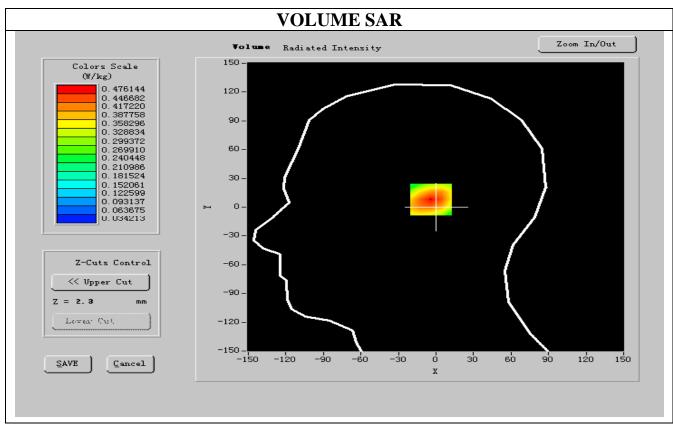
PC	HP (Pentium(R) V3.06GHz,	Calibration Due: N/A
	SN:375052-AA1)	
Wireless Communication	R&S (CMU200, SN:B23-03291)	Calibration Due: 05/25/2011
Test Set		
Network Analyzer	Agilent(E5071B, MY42301382)	Calibration Due: 03/24/2012
Voltmeter	Keithley (2000, SN:1015843)	Calibration Due: 05/25/2011
Signal Generator	Agilent (E8257C, SN:MY43321570)	Calibration Due: 03/24/2012
Amplifier	Mini-Circuits (ZHL-42,	Calibration Due: 07/29/2011
	SN:110405)	
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibration Due: 03/24/2012
Probe	Antennessa (SN:SN_1109_EP_100)	Calibration Due: 05/04/2011
DIPOLE 835	Antennessa (DIPC32,SN 48/05)	Calibration Due: 02/09/2012
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibration Due: N/A
Liquid	Antennessa	Calibration Due: N/A
Measurement SW	OPEN SAR V2.1	Calibration Due: N/A

Frequency (MHz)	824.200000
Relative permitivity (real part)	41.466999
Relative permitivity (imaginary part)	19.511101
Conductivity (S/m)	0.923392
Variation (%)	-1.490000
Ambient Temperature:	21.2°C
Liquid Temperature:	20.3 °C
ConvF:	20.66, 20.51, 28.36
Crest factor:	8:1
SURFACE SA	AR

Report No: KS110407B04-SF

Date of Issue: April 11, 2011

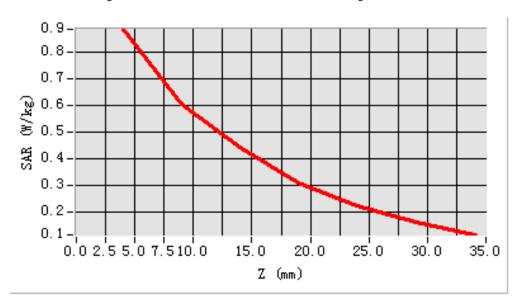




SAR 10g (W/Kg)	0.442827
SAR 1g (W/Kg)	0.601092



SAR, Z Axis Scan (X = -13, Y = -3)



Date of Issue: April 11, 2011

Date of measurement: April 11, 2011

A. Experimental conditions.

Phantom File	zinf15.txt, Adaptative 2 max
Phantom	Left Head
Device Position	Cheek
Band	GSM850
Channels	Middle
Signal	GSM

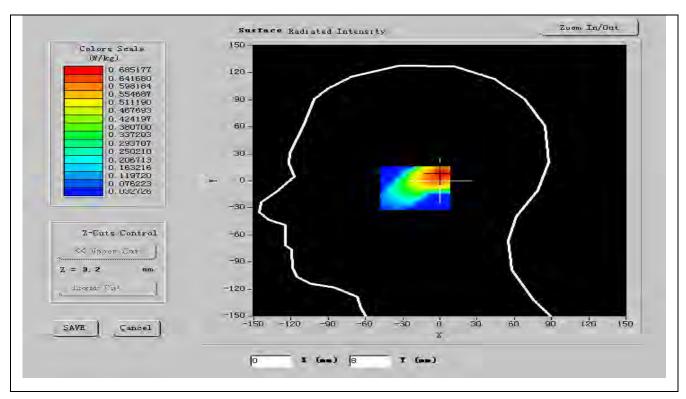
B. Instrumentations.

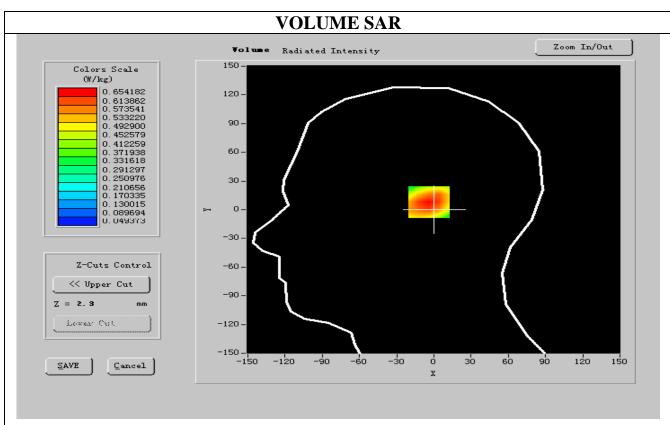
PC	HP (Pentium(R) V3.06GHz,	Calibration Due: N/A
	SN:375052-AA1)	
Wireless Communication	R&S (CMU200, SN:B23-03291)	Calibration Due: 05/25/2011
Test Set		
Network Analyzer	Agilent(E5071B, MY42301382)	Calibration Due: 03/24/2012
Voltmeter	Keithley (2000, SN:1015843)	Calibration Due: 05/25/2011
Signal Generator	Agilent (E8257C, SN:MY43321570)	Calibration Due: 03/24/2012
Amplifier	Mini-Circuits (ZHL-42,	Calibration Due: 07/29/2011
	SN:110405)	
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibration Due: 03/24/2012
Probe	Antennessa (SN:SN_1109_EP_100)	Calibration Due: 05/04/2011
DIPOLE 835	Antennessa (DIPC32,SN 48/05)	Calibration Due: 02/09/2012
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibration Due: N/A
Liquid	Antennessa	Calibration Due: N/A
Measurement SW	OPEN SAR V2.1	Calibration Due: N/A

Frequency (MHz)	836.600000
Relative permitivity (real part)	41.466999
Relative permitivity (imaginary part)	19.511101
Conductivity (S/m)	0.916616
Variation (%)	-0.110000
Ambient Temperature:	21.2 °C
Liquid Temperature:	20.3 °C
ConvF:	20.66, 20.51, 28.36
Crest factor:	8:1
SURFACE SAR	

Report No: KS110407B04-SF

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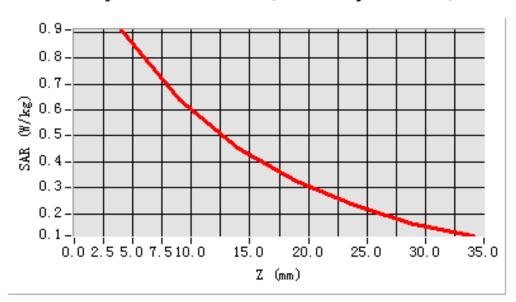
Maximum location: X=-13.00, Y=-3.00

SAR 10g (W/Kg)	0.357079
SAR 1g (W/Kg)	0.520796

Z Axis Scan



SAR, Z Axis Scan (X = -13, Y = -3)



Date of Issue: April 11, 2011

Date of measurement: April 11, 2011

A. Experimental conditions.

Phantom File	zinf15.txt, Adaptative 2 max
Phantom	Left Head
Device Position	Cheek
Band	GSM850
Channels	High
Signal	GSM

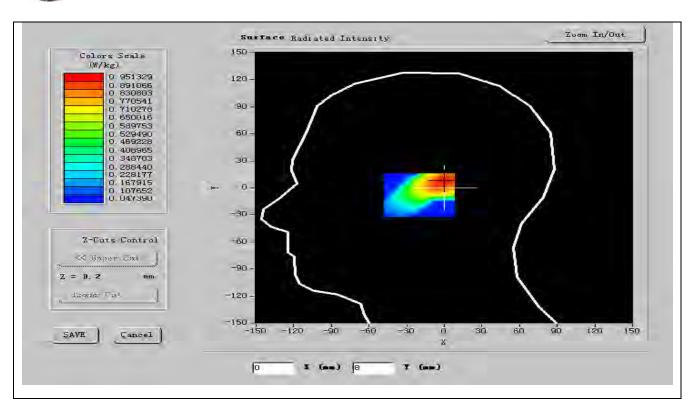
B. Instrumentations.

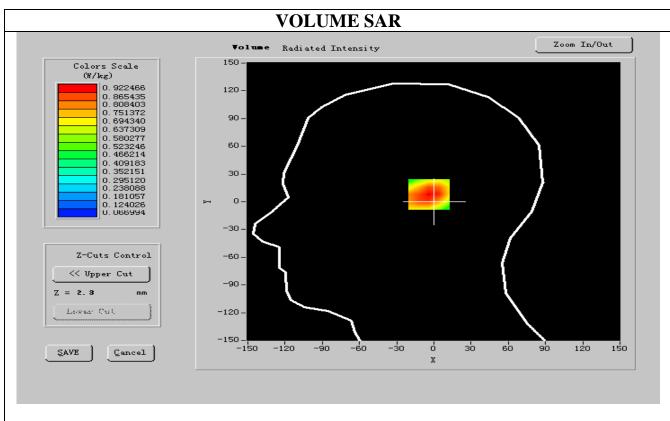
PC	HP (Pentium(R) V3.06GHz,	Calibration Due: N/A
	SN:375052-AA1)	
Wireless Communication Test Set	R&S (CMU200, SN:B23-03291)	Calibration Due: 05/25/2011
Network Analyzer	Agilent(E5071B, MY42301382)	Calibration Due: 03/24/2012
Voltmeter	Keithley (2000, SN:1015843)	Calibration Due: 05/25/2011
Signal Generator	Agilent (E8257C, SN:MY43321570)	Calibration Due: 03/24/2012
Amplifier	Mini-Circuits (ZHL-42,	Calibration Due: 07/29/2011
	SN:110405)	
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibration Due: 03/24/2012
Probe	Antennessa (SN:SN_1109_EP_100)	Calibration Due: 05/04/2011
DIPOLE 835	Antennessa (DIPC32,SN 48/05)	Calibration Due: 02/09/2012
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibration Due: N/A
Liquid	Antennessa	Calibration Due: N/A
Measurement SW	OPEN SAR V2.1	Calibration Due: N/A

Frequency (MHz)	848.80000	
Relative permitivity (real part)	41.262001	
Relative permitivity (imaginary part)	19.598200	
Conductivity (S/m)	0.923946	
Variation (%)	-0.110000	
Ambient Temperature:	21.2 °C	
Liquid Temperature:	20.3 °C	
ConvF:	20.66, 20.51, 28.36	
Crest factor:	8:1	
SURFACE SAR		

Report No: KS110407B04-SF

Date of Issue: April 11, 2011

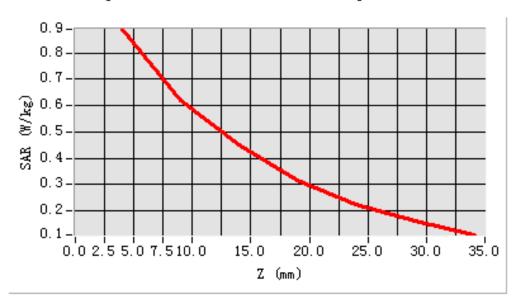




SAR 10g (W/Kg)	0.589410
SAR 1g (W/Kg)	0.764474



SAR, Z Axis Scan (X = -13, Y = -3)



Date of Issue: April 11, 2011

Date of measurement: April 11, 2011

A. Experimental conditions.

Phantom File	zinf15.txt, Adaptative 2 max
Phantom	Left Head
Device Position	Tilt
Band	GSM850
Channels	Low
Signal	GSM

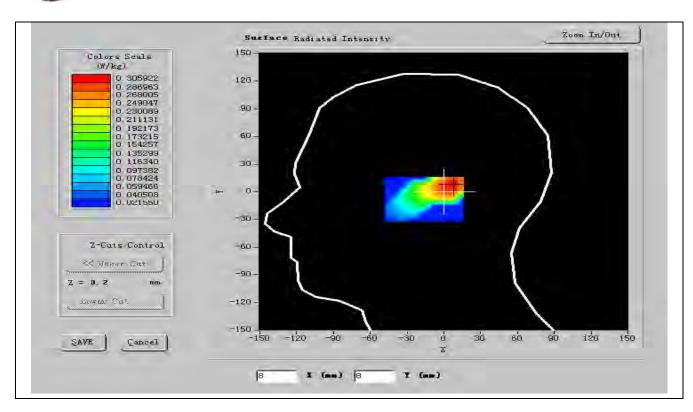
B. Instrumentations.

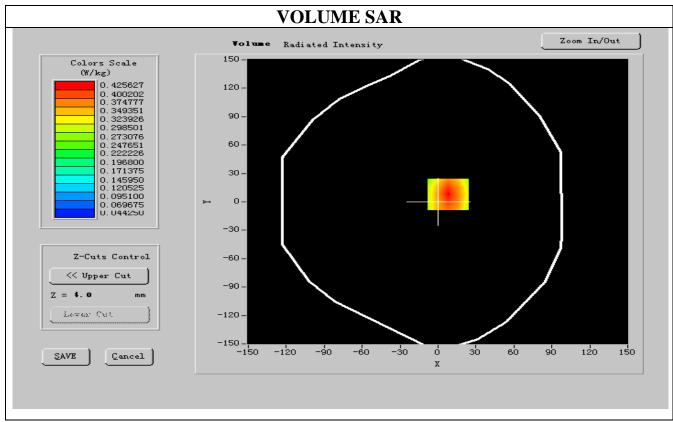
PC	HP (Pentium(R) V3.06GHz,	Calibration Due: N/A
	SN:375052-AA1)	
Wireless Communication	R&S (CMU200, SN:B23-03291)	Calibration Due: 05/25/2011
Test Set		
Network Analyzer	Agilent(E5071B, MY42301382)	Calibration Due: 03/24/2012
Voltmeter	Keithley (2000, SN:1015843)	Calibration Due: 05/25/2011
Signal Generator	Agilent (E8257C, SN:MY43321570)	Calibration Due: 03/24/2012
Amplifier	Mini-Circuits (ZHL-42,	Calibration Due: 07/29/2011
	SN:110405)	
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibration Due: 03/24/2012
Probe	Antennessa (SN:SN_1109_EP_100)	Calibration Due: 05/04/2011
DIPOLE 835	Antennessa (DIPC32,SN 48/05)	Calibration Due: 02/09/2012
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibration Due: N/A
Liquid	Antennessa	Calibration Due: N/A
Measurement SW	OPEN SAR V2.1	Calibration Due: N/A

CV STILL TYLEAGUE CHICAGO TECSATOS		
Frequency (MHz)	824.200000	
Relative permitivity (real part)	41.466999	
Relative permitivity (imaginary part)	19.511101	
Conductivity (S/m)	0.913392	
Variation (%)	-3.070000	
Ambient Temperature:	21.2 °C	
Liquid Temperature:	20.3 °C	
ConvF:	20.66, 20.51, 28.36	
Crest factor:	8:1	
SURFACE SAR		

Report No: KS110407B04-SF

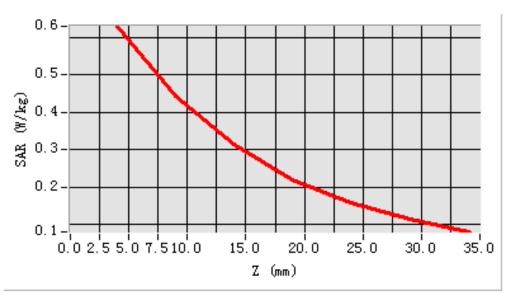
Date of Issue: April 11, 2011





SAR 10g (W/Kg)	0.273533
SAR 1g (W/Kg)	0.400195

SAR, Z Axis Scan (X = -9, Y = -6)



Date of Issue: April 11, 2011

Date of measurement: April 11, 2011

A. Experimental conditions.

Phantom File	zinf15.txt, Adaptative 2 max
Phantom	Left Head
Device Position	Tilt
Band	GSM850
Channels	Middle
Signal	GSM

B. Instrumentations.

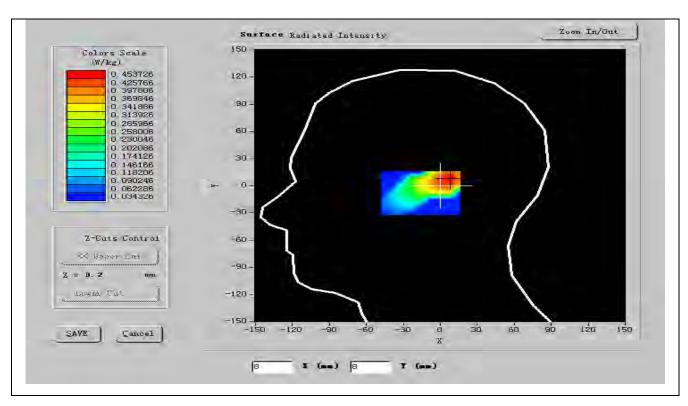
PC	HP (Pentium(R) V3.06GHz,	Calibration Due: N/A
	SN:375052-AA1)	
Wireless Communication	R&S (CMU200, SN:B23-03291)	Calibration Due: 05/25/2011
Test Set		
Network Analyzer	Agilent(E5071B, MY42301382)	Calibration Due: 03/24/2012
Voltmeter	Keithley (2000, SN:1015843)	Calibration Due: 05/25/2011
Signal Generator	Agilent (E8257C, SN:MY43321570)	Calibration Due: 03/24/2012
Amplifier	Mini-Circuits (ZHL-42,	Calibration Due: 07/29/2011
	SN:110405)	
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibration Due: 03/24/2012
Probe	Antennessa (SN:SN_1109_EP_100)	Calibration Due: 05/04/2011
DIPOLE 835	Antennessa (DIPC32,SN 48/05)	Calibration Due: 02/09/2012
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibration Due: N/A
Liquid	Antennessa	Calibration Due: N/A
Measurement SW	OPEN SAR V2.1	Calibration Due: N/A

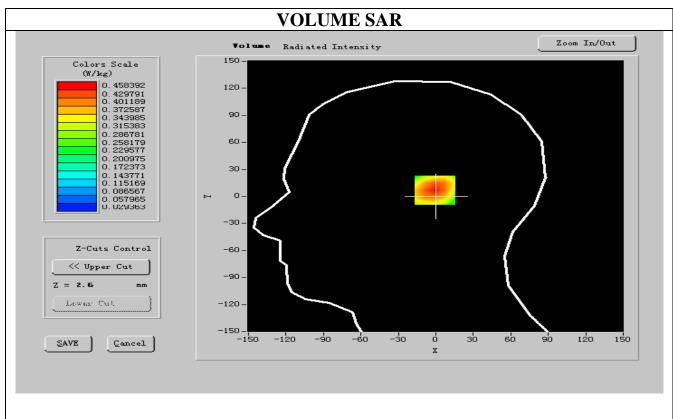
Frequency (MHz)	836.600000
Relative permitivity (real part)	41.466999
Relative permitivity (imaginary part)	19.511101
Conductivity (S/m)	0.913636
Variation (%)	-0.880000
Ambient Temperature:	21.2 °C
Liquid Temperature:	20.3 °C
ConvF:	20.66, 20.51, 28.36
Crest factor:	8:1
SURFACE SA	AR



Report No: KS110407B04-SF

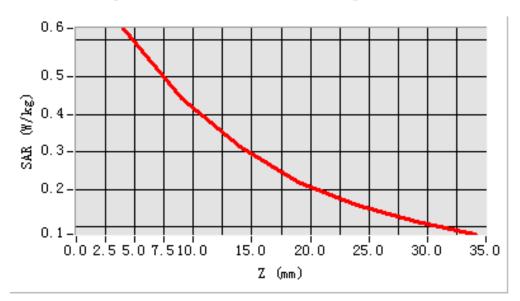
Date of Issue: April 11, 2011





SAR 10g (W/Kg)	0.237303
SAR 1g (W/Kg)	0.346004

SAR, Z Axis Scan (X = -9, Y = -6)



Date of Issue: April 11, 2011

Date of measurement: April 11, 2011

Zoom Scan: 5 x 5 x 7 dx=5mm dy=5mm dz=5mm Z Axis Scan: 1 x 1 x 21 dx=20mm dy=20mm dz=5mm

A. Experimental conditions.

Phantom File	zinf15.txt, Adaptative 2 max
Phantom	Left Head
Device Position	Tilt
Band	GSM850
Channels	High
Signal	GSM

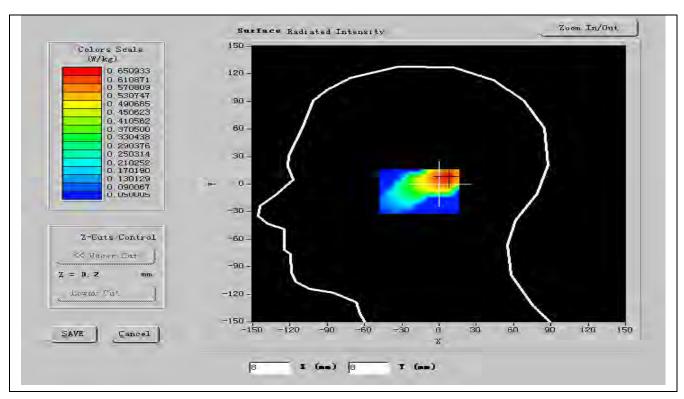
B. Instrumentations.

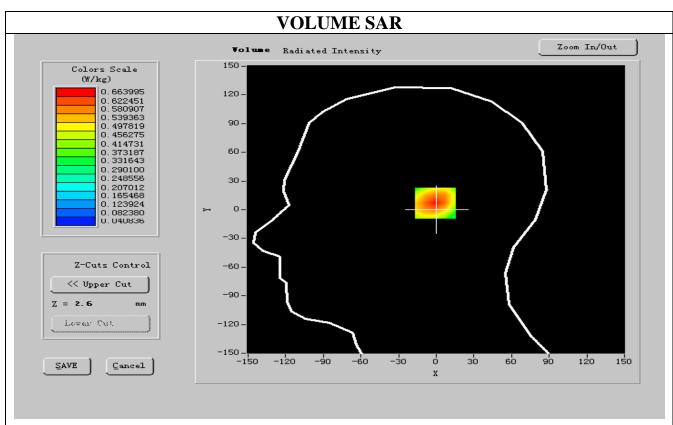
PC	HP (Pentium(R) V3.06GHz,	Calibration Due: N/A
	SN:375052-AA1)	
Wireless Communication Test Set	R&S (CMU200, SN:B23-03291)	Calibration Due: 05/25/2011
Network Analyzer	Agilent(E5071B, MY42301382)	Calibration Due: 03/24/2012
Voltmeter	Keithley (2000, SN:1015843)	Calibration Due: 05/25/2011
Signal Generator	Agilent (E8257C, SN:MY43321570)	Calibration Due: 03/24/2012
Amplifier	Mini-Circuits (ZHL-42,	Calibration Due: 07/29/2011
	SN:110405)	
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibration Due: 03/24/2012
Probe	Antennessa (SN:SN_1109_EP_100)	Calibration Due: 05/04/2011
DIPOLE 835	Antennessa (DIPC32,SN 48/05)	Calibration Due: 02/09/2012
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibration Due: N/A
Liquid	Antennessa	Calibration Due: N/A
Measurement SW	OPEN SAR V2.1	Calibration Due: N/A

CV STILL TYLEASON CHICAL RESULES	
Frequency (MHz)	848.800000
Relative permitivity (real part)	41.262001
Relative permitivity (imaginary part)	19.598200
Conductivity (S/m)	0.923946
Variation (%)	-3.070000
Ambient Temperature:	21.2 °C
Liquid Temperature:	20.3 °C
ConvF:	20.66, 20.51, 28.36
Crest factor:	8:1
SURFACE SA	AR

Report No: KS110407B04-SF

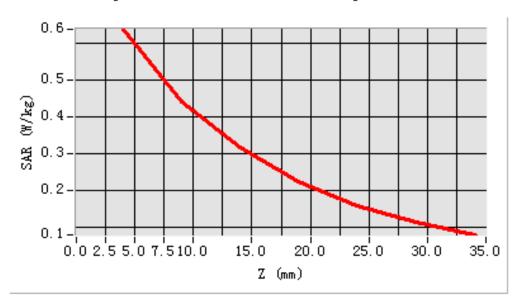
Date of Issue: April 11, 2011





SAR 10g (W/Kg)	0.333406
SAR 1g (W/Kg)	0.504236

SAR, Z Axis Scan (X = -9, Y = -6)



Date of Issue: April 11, 2011

Date of measurement: April 11, 2011

Zoom Scan: 5 x 5 x 7 dx=5mm dy=5mm dz=5mm Z Axis Scan: 1 x 1 x 21 dx=20mm dy=20mm dz=5mm

A. Experimental conditions.

Phantom File	zinf15.txt, Adaptative 2 max
Phantom	Right head
Device Position	Cheek
Band	GSM850
Channels	Low
Signal	GSM

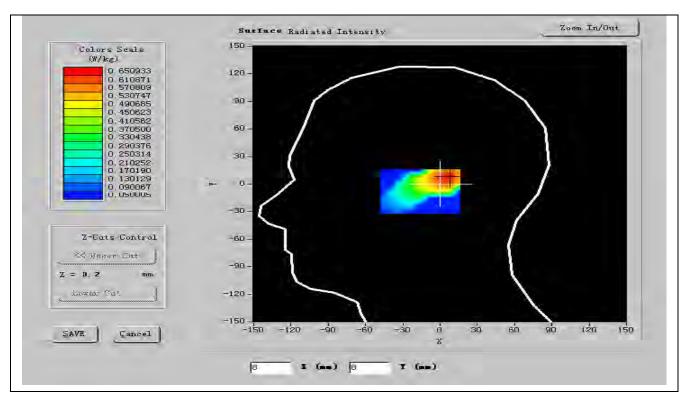
B. Instrumentations.

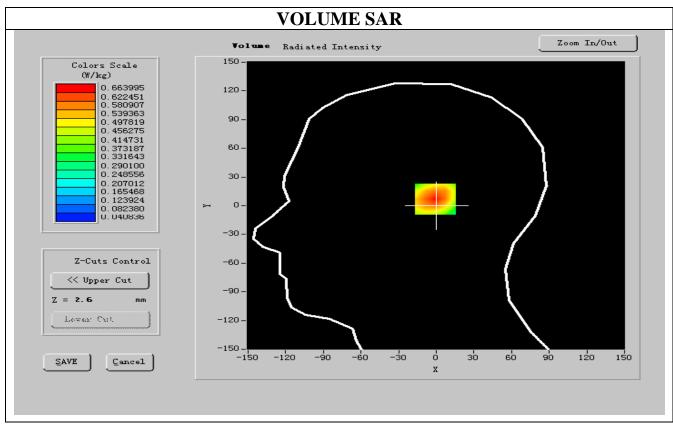
PC	HP (Pentium(R) V3.06GHz,	Calibration Due: N/A
	SN:375052-AA1)	
Wireless Communication	R&S (CMU200, SN:B23-03291)	Calibration Due: 05/25/2011
Test Set		
Network Analyzer	Agilent(E5071B, MY42301382)	Calibration Due: 03/24/2012
Voltmeter	Keithley (2000, SN:1015843)	Calibration Due: 05/25/2011
Signal Generator	Agilent (E8257C, SN:MY43321570)	Calibration Due: 03/24/2012
Amplifier	Mini-Circuits (ZHL-42,	Calibration Due: 07/29/2011
	SN:110405)	
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibration Due: 03/24/2012
Probe	Antennessa (SN:SN_1109_EP_100)	Calibration Due: 05/04/2011
DIPOLE 835	Antennessa (DIPC32,SN 48/05)	Calibration Due: 02/09/2012
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibration Due: N/A
Liquid	Antennessa	Calibration Due: N/A
Measurement SW	OPEN SAR V2.1	Calibration Due: N/A

Frequency (MHz)	824.200000
Relative permitivity (real part)	41.466999
Relative permitivity (imaginary part)	19.511101
Conductivity (S/m)	0.923372
Variation (%)	-1.240000
Ambient Temperature:	21.2 °C
Liquid Temperature:	20.3 °C
ConvF:	20.66, 20.51, 28.36
Crest factor:	8:1
SURFACE SA	AR

Report No: KS110407B04-SF

Date of Issue: April 11, 2011

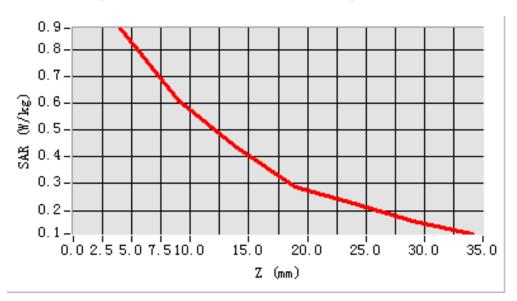




SAR 10g (W/Kg)	0.501003
SAR 1g (W/Kg)	0.604459



SAR, Z Axis Scan (X = -25, Y = -11)



Date of Issue: April 11, 2011

Date of measurement: April 11, 2011

A. Experimental conditions.

Phantom File	zinf15.txt, Adaptative 2 max
Phantom	Right head
Device Position	Cheek
Band	GSM850
Channels	Middle
Signal	GSM

B. Instrumentations.

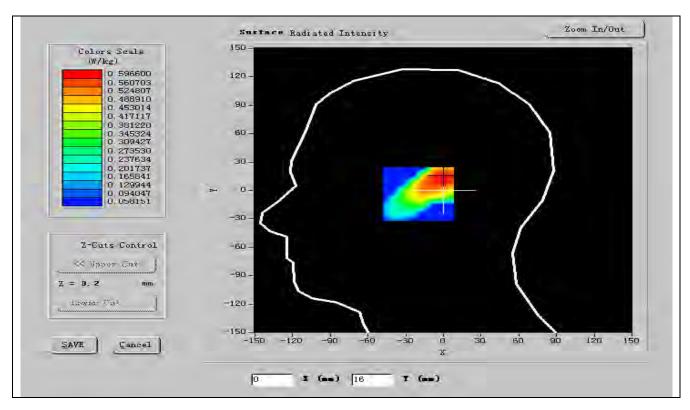
PC	HP (Pentium(R) V3.06GHz,	Calibration Due: N/A
	SN:375052-AA1)	
Wireless Communication Test Set	R&S (CMU200, SN:B23-03291)	Calibration Due: 05/25/2011
Network Analyzer	Agilent(E5071B, MY42301382)	Calibration Due: 03/24/2012
Voltmeter	Keithley (2000, SN:1015843)	Calibration Due: 05/25/2011
Signal Generator	Agilent (E8257C, SN:MY43321570)	Calibration Due: 03/24/2012
Amplifier	Mini-Circuits (ZHL-42,	Calibration Due: 07/29/2011
	SN:110405)	
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibration Due: 03/24/2012
Probe	Antennessa (SN:SN_1109_EP_100)	Calibration Due: 05/04/2011
DIPOLE 835	Antennessa (DIPC32,SN 48/05)	Calibration Due: 02/09/2012
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibration Due: N/A
Liquid	Antennessa	Calibration Due: N/A
Measurement SW	OPEN SAR V2.1	Calibration Due: N/A

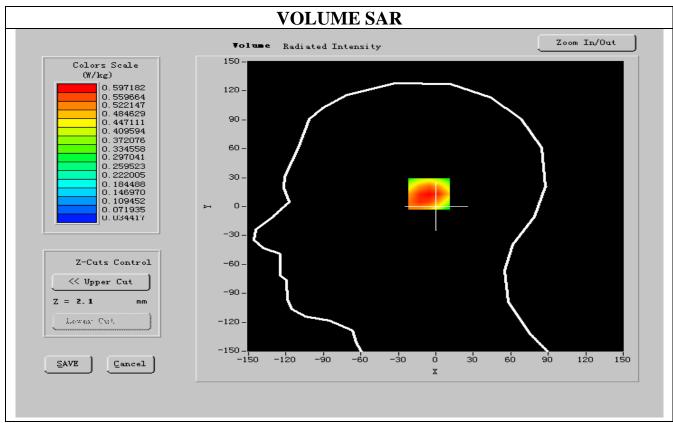
Frequency (MHz)	836.600000
Relative permitivity (real part)	41.466999
Relative permitivity (imaginary part)	19.511101
Conductivity (S/m)	0.9163242
Variation (%)	-1.240000
Ambient Temperature:	21.2 °C
Liquid Temperature:	20.3 °C
ConvF:	20.66, 20.51, 28.36
Crest factor:	8:1
SURFACE SA	AR

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Report No: KS110407B04-SF

Date of Issue: April 11, 2011

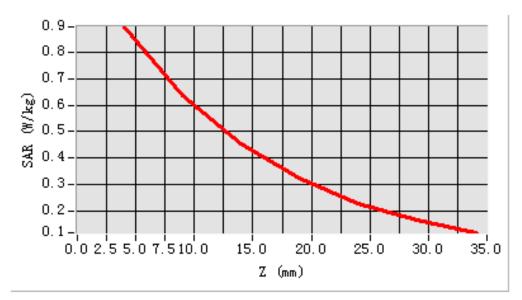




SAR 10g (W/Kg)	0.402991
SAR 1g (W/Kg)	0.520282

Report No: KS110407B04-SF Date of Issue: April 11, 2011

SAR, Z Axis Scan (X = -25, Y = -11)



Date of Issue: April 11, 2011

Date of measurement: April 11, 2011

A. Experimental conditions.

Phantom File	zinf15.txt, Adaptative 2 max
Phantom	Right head
Device Position	Cheek
Band	GSM850
Channels	High
Signal	GSM

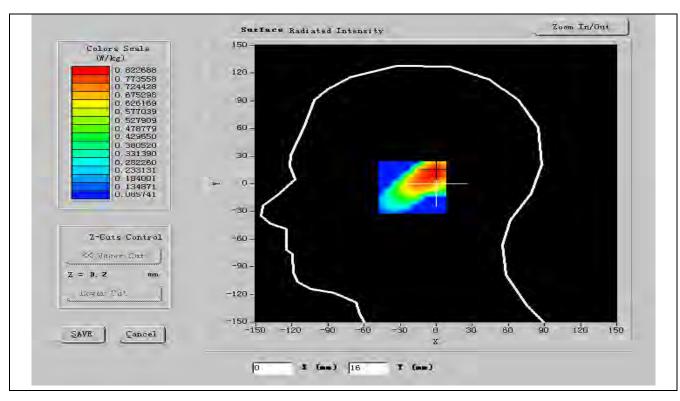
B. Instrumentations.

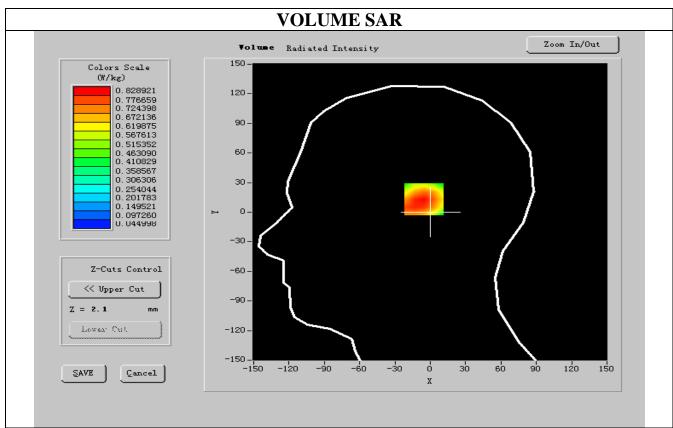
PC	HP (Pentium(R) V3.06GHz,	Calibration Due: N/A
	SN:375052-AA1)	
Wireless Communication	R&S (CMU200, SN:B23-03291)	Calibration Due: 05/25/2011
Test Set		
Network Analyzer	Agilent(E5071B, MY42301382)	Calibration Due: 03/24/2012
Voltmeter	Keithley (2000, SN:1015843)	Calibration Due: 05/25/2011
Signal Generator	Agilent (E8257C, SN:MY43321570)	Calibration Due: 03/24/2012
Amplifier	Mini-Circuits (ZHL-42,	Calibration Due: 07/29/2011
	SN:110405)	
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibration Due: 03/24/2012
Probe	Antennessa (SN:SN_1109_EP_100)	Calibration Due: 05/04/2011
DIPOLE 835	Antennessa (DIPC32,SN 48/05)	Calibration Due: 02/09/2012
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibration Due: N/A
Liquid	Antennessa	Calibration Due: N/A
Measurement SW	OPEN SAR V2.1	Calibration Due: N/A

Frequency (MHz)	848.800000	
Relative permitivity (real part)	41.278801	
Relative permitivity (imaginary part)	19.598200	
Conductivity (S/m)	0.923946	
Variation (%)	-1.200000	
Ambient Temperature:	21.2 °C	
Liquid Temperature:	20.3 °C	
ConvF:	20.66, 20.51, 28.36	
Crest factor:	8:1	
SURFACE SAR		

Report No: KS110407B04-SF

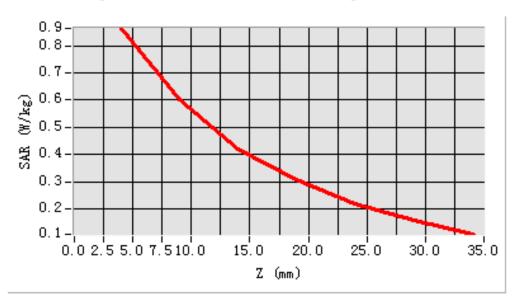
Date of Issue: April 11, 2011





SAR 10g (W/Kg)	0.269946
SAR 1g (W/Kg)	0.404345

SAR, Z Axis Scan (X = -25, Y = -11)



Date of Issue: April 11, 2011

Date of measurement: April 11, 2011

A. Experimental conditions.

Phantom File	zinf15.txt, Adaptative 2 max
Phantom	Right head
Device Position	Tilt
Band	GSM850
Channels	Low
Signal	GSM

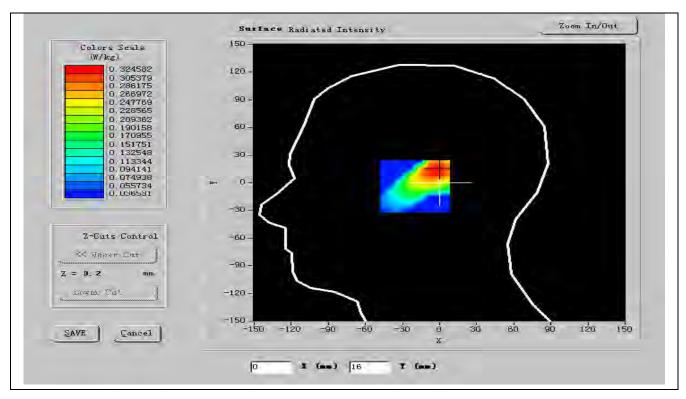
B. Instrumentations.

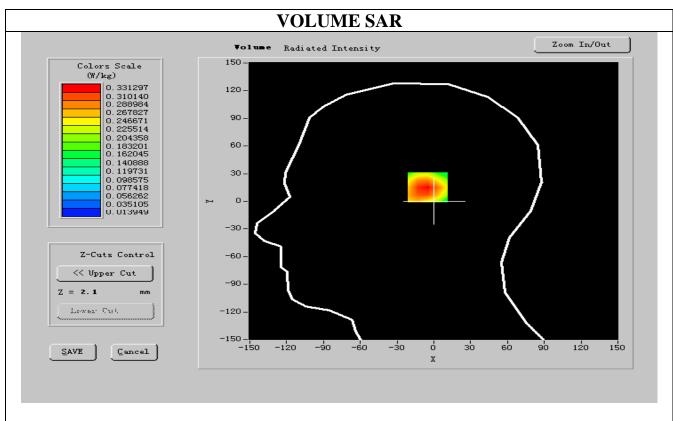
PC	HP (Pentium(R) V3.06GHz,	Calibration Due: N/A
	SN:375052-AA1)	
Wireless Communication	R&S (CMU200, SN:B23-03291)	Calibration Due: 05/25/2011
Test Set		
Network Analyzer	Agilent(E5071B, MY42301382)	Calibration Due: 03/24/2012
Voltmeter	Keithley (2000, SN:1015843)	Calibration Due: 05/25/2011
Signal Generator	Agilent (E8257C, SN:MY43321570)	Calibration Due: 03/24/2012
Amplifier	Mini-Circuits (ZHL-42,	Calibration Due: 07/29/2011
	SN:110405)	
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibration Due: 03/24/2012
Probe	Antennessa (SN:SN_1109_EP_100)	Calibration Due: 05/04/2011
DIPOLE 835	Antennessa (DIPC32,SN 48/05)	Calibration Due: 02/09/2012
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibration Due: N/A
Liquid	Antennessa	Calibration Due: N/A
Measurement SW	OPEN SAR V2.1	Calibration Due: N/A

31 STILL WILLIAM CHICAL TESTING	
Frequency (MHz)	824.200000
Relative permitivity (real part)	41.466365
Relative permitivity (imaginary part)	19.511101
Conductivity (S/m)	0.923253
Variation (%)	-0.170000
Ambient Temperature:	21.2 °C
Liquid Temperature:	20.3 °C
ConvF:	20.66, 20.51, 28.36
Crest factor:	8:1
SURFACE SA	AR

Report No: KS110407B04-SF

Date of Issue: April 11, 2011

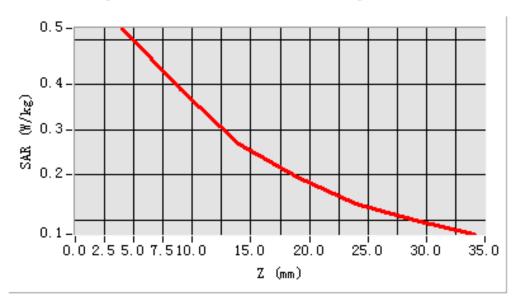




SAR 10g (W/Kg)	0.243051
SAR 1g (W/Kg)	0.369038



SAR, Z Axis Scan (X = -22, Y = -6)



Date of Issue: April 11, 2011

Date of measurement: April 11, 2011

A. Experimental conditions.

Phantom File	zinf15.txt, Adaptative 2 max
Phantom	Right head
Device Position	Tilt
Band	GSM850
Channels	Middle
Signal	GSM

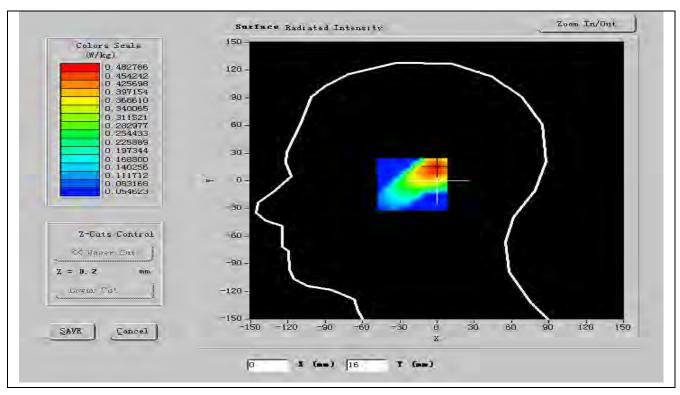
B. Instrumentations.

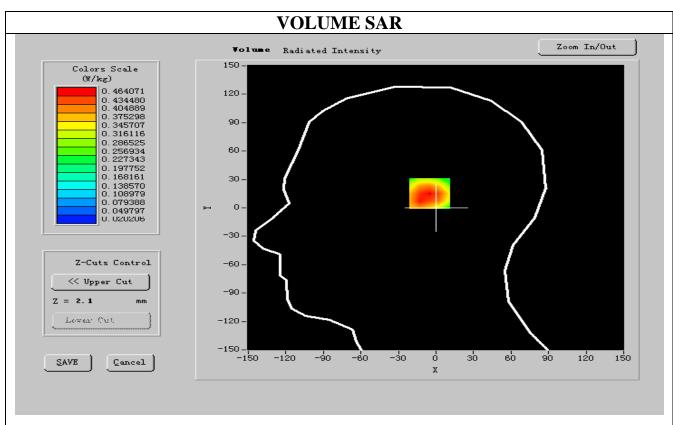
PC	HP (Pentium(R) V3.06GHz,	Calibration Due: N/A
	SN:375052-AA1)	
Wireless Communication	R&S (CMU200, SN:B23-03291)	Calibration Due: 05/25/2011
Test Set		
Network Analyzer	Agilent(E5071B, MY42301382)	Calibration Due: 03/24/2012
Voltmeter	Keithley (2000, SN:1015843)	Calibration Due: 05/25/2011
Signal Generator	Agilent (E8257C, SN:MY43321570)	Calibration Due: 03/24/2012
Amplifier	Mini-Circuits (ZHL-42,	Calibration Due: 07/29/2011
	SN:110405)	
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibration Due: 03/24/2012
Probe	Antennessa (SN:SN_1109_EP_100)	Calibration Due: 05/04/2011
DIPOLE 835	Antennessa (DIPC32,SN 48/05)	Calibration Due: 02/09/2012
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibration Due: N/A
Liquid	Antennessa	Calibration Due: N/A
Measurement SW	OPEN SAR V2.1	Calibration Due: N/A

Frequency (MHz)	836.600000
Relative permitivity (real part)	41.467953
Relative permitivity (imaginary part)	19.511101
Conductivity (S/m)	0.916214
Variation (%)	-1.170000
Ambient Temperature:	21.2 °C
Liquid Temperature:	20.3 °C
ConvF:	20.66, 20.51, 28.36
Crest factor:	8:1
SURFACE SA	AR

Report No: KS110407B04-SF

Date of Issue: April 11, 2011

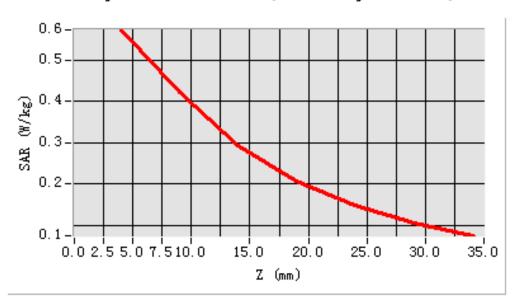




SAR 10g (W/Kg)	0.388580
SAR 1g (W/Kg)	0.554812



SAR, Z Axis Scan (X = -22, Y = -6)



Date of Issue: April 11, 2011

Date of measurement: April 11, 2011

A. Experimental conditions.

Phantom File	zinf15.txt, Adaptative 2 max
Phantom	Right head
Device Position	Tilt
Band	GSM850
Channels	High
Signal	GSM

B. Instrumentations.

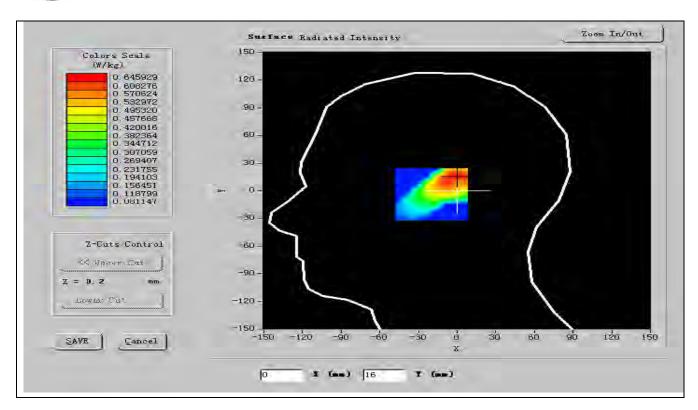
PC	HP (Pentium(R) V3.06GHz,	Calibration Due: N/A
	SN:375052-AA1)	
Wireless Communication	R&S (CMU200, SN:B23-03291)	Calibration Due: 05/25/2011
Test Set		
Network Analyzer	Agilent(E5071B, MY42301382)	Calibration Due: 03/24/2012
Voltmeter	Keithley (2000, SN:1015843)	Calibration Due: 05/25/2011
Signal Generator	Agilent (E8257C, SN:MY43321570)	Calibration Due: 03/24/2012
Amplifier	Mini-Circuits (ZHL-42,	Calibration Due: 07/29/2011
	SN:110405)	
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibration Due: 03/24/2012
Probe	Antennessa (SN:SN_1109_EP_100)	Calibration Due: 05/04/2011
DIPOLE 835	Antennessa (DIPC32,SN 48/05)	Calibration Due: 02/09/2012
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibration Due: N/A
Liquid	Antennessa	Calibration Due: N/A
Measurement SW	OPEN SAR V2.1	Calibration Due: N/A

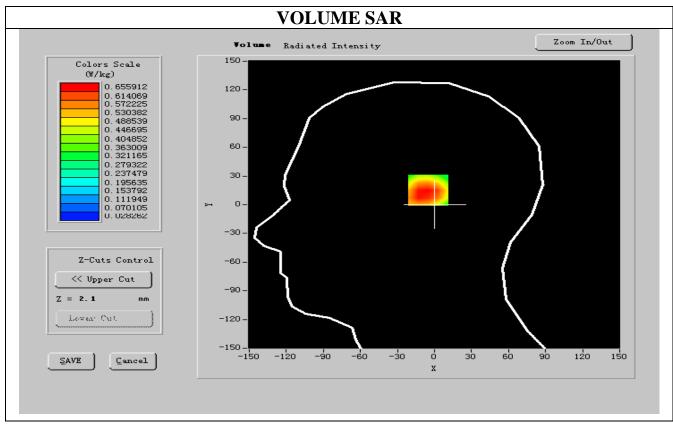
Frequency (MHz)	848.800000
Relative permitivity (real part)	41.262023
Relative permitivity (imaginary part)	19.598200
Conductivity (S/m)	0.923946
Variation (%)	-1.000000
Ambient Temperature:	21.2 °C
Liquid Temperature:	20.3 °C
ConvF:	20.66, 20.51, 28.36
Crest factor:	8:1
SURFACE SA	AR

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Report No: KS110407B04-SF

Date of Issue: April 11, 2011

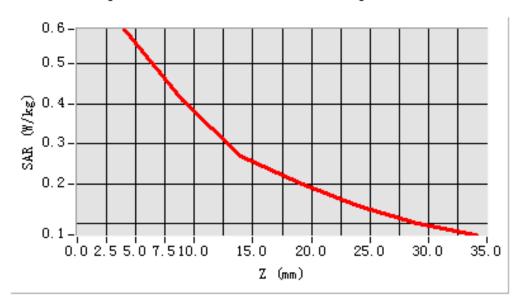




SAR 10g (W/Kg)	0.282879
SAR 1g (W/Kg)	0.452102



SAR, Z Axis Scan (X = -22, Y = -6)



Date of Issue: April 11, 2011

Date of measurement: April 11, 2011

A. Experimental conditions.

Phantom File	zinf15.txt, Adaptative 2 max
Phantom	Body
Device Position	FrontSide toward phantom
Band	GSM850
Channels	Low
Signal	GSM

B. Instrumentations.

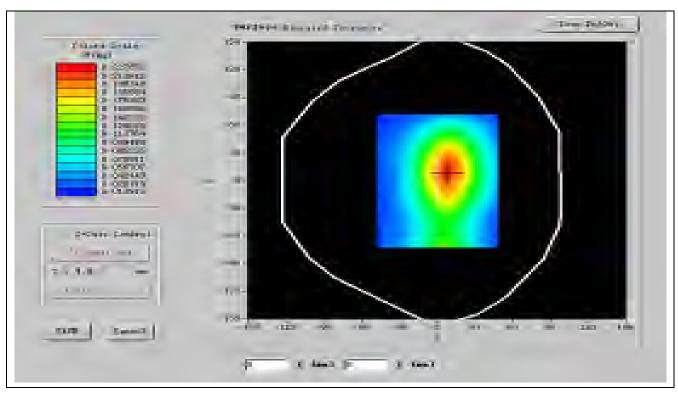
PC	HP (Pentium(R) V3.06GHz,	Calibration Due: N/A
	SN:375052-AA1)	
Wireless Communication Test Set	R&S (CMU200, SN:B23-03291)	Calibration Due: 05/25/2011
Network Analyzer	Agilent(E5071B, MY42301382)	Calibration Due: 03/24/2012
Voltmeter	Keithley (2000, SN:1015843)	Calibration Due: 05/25/2011
Signal Generator	Agilent (E8257C, SN:MY43321570)	Calibration Due: 03/24/2012
Amplifier	Mini-Circuits (ZHL-42,	Calibration Due: 07/29/2011
	SN:110405)	
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibration Due: 03/24/2012
Probe	Antennessa (SN:SN_1109_EP_100)	Calibration Due: 05/04/2011
DIPOLE 835	Antennessa (DIPC32,SN 48/05)	Calibration Due: 02/09/2012
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibration Due: N/A
Liquid	Antennessa	Calibration Due: N/A
Measurement SW	OPEN SAR V2.1	Calibration Due: N/A

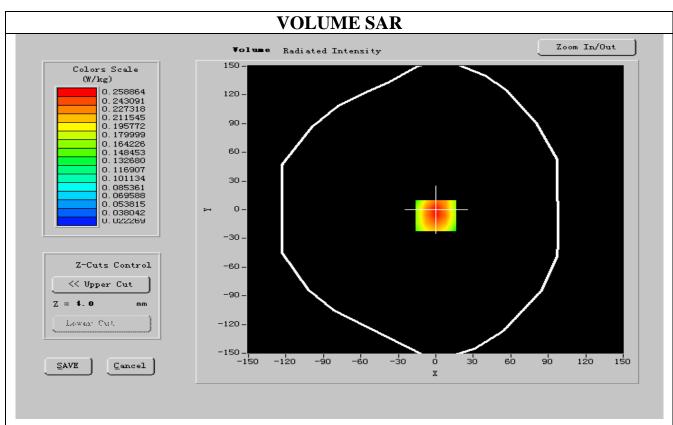
Frequency (MHz)	824.200000
Relative permitivity (real part)	56.514000
Relative permitivity (imaginary part)	21.654150
Conductivity (S/m)	0.984519
Variation (%)	-2.120000
Ambient Temperature:	21.2 °C
Liquid Temperature:	20.3 °C
ConvF:	20.00, 19.88, 27.77
Crest factor:	8:1
SURFACE SA	AR



Report No: KS110407B04-SF

Date of Issue: April 11, 2011

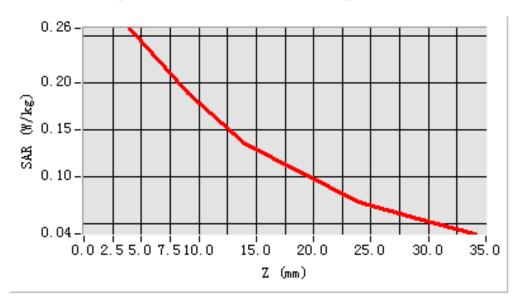




SAR 10g (W/Kg)	0.182513
SAR 1g (W/Kg)	0.365339



SAR, Z Axis Scan (X = 0, Y = -6)



Date of Issue: April 11, 2011

Date of measurement: April 11, 2011

A. Experimental conditions.

Phantom File	zinf15.txt, Adaptative 2 max
Phantom	Body
Device Position	FrontSide toward phantom
Band	GSM850
Channels	Middle
Signal	GSM

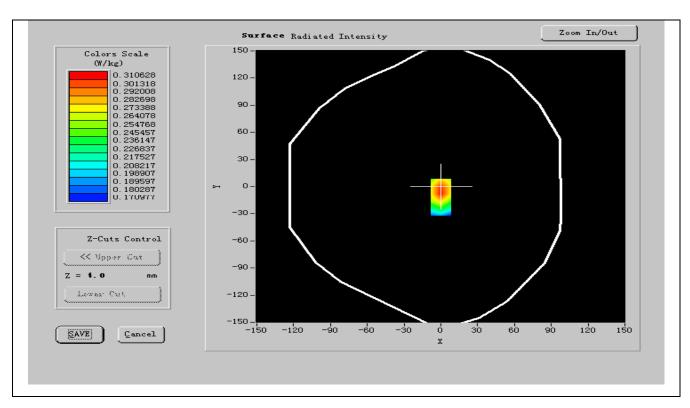
B. Instrumentations.

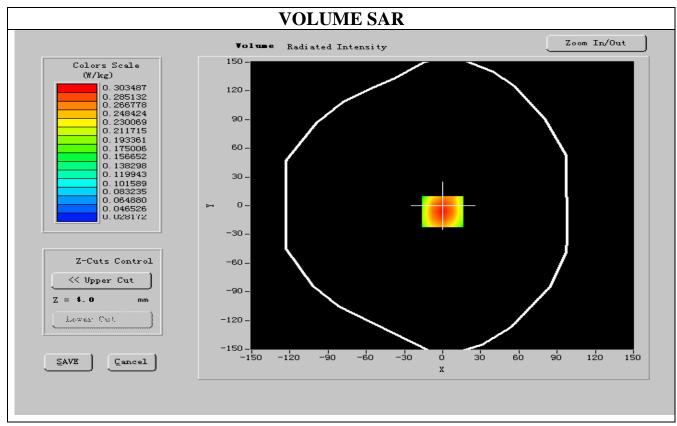
PC	HP (Pentium(R) V3.06GHz,	Calibration Due: N/A
	SN:375052-AA1)	
Wireless Communication	R&S (CMU200, SN:B23-03291)	Calibration Due: 05/25/2011
Test Set		
Network Analyzer	Agilent(E5071B, MY42301382)	Calibration Due: 03/24/2012
Voltmeter	Keithley (2000, SN:1015843)	Calibration Due: 05/25/2011
Signal Generator	Agilent (E8257C, SN:MY43321570)	Calibration Due: 03/24/2012
Amplifier	Mini-Circuits (ZHL-42,	Calibration Due: 07/29/2011
	SN:110405)	
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibration Due: 03/24/2012
Probe	Antennessa (SN:SN_1109_EP_100)	Calibration Due: 05/04/2011
DIPOLE 835	Antennessa (DIPC32,SN 48/05)	Calibration Due: 02/09/2012
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibration Due: N/A
Liquid	Antennessa	Calibration Due: N/A
Measurement SW	OPEN SAR V2.1	Calibration Due: N/A

Frequency (MHz)	836.600000	
Relative permitivity (real part)	56.501935	
Relative permitivity (imaginary part)	21.866249	
Conductivity (S/m)	0.986052	
Variation (%)	-2.120000	
Ambient Temperature:	21.2 °C	
Liquid Temperature:	20.3 °C	
ConvF:	20.00, 19.88, 27.77	
Crest factor:	8:1	
SURFACE SAR		

Report No: KS110407B04-SF

Date of Issue: April 11, 2011

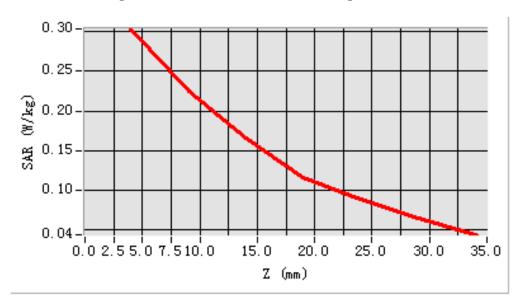




SAR 10g (W/Kg)	0.153874
SAR 1g (W/Kg)	0.346912



SAR, Z Axis Scan (X = 0, Y = -6)



Date of Issue: April 11, 2011

Date of measurement: April 11, 2011

A. Experimental conditions.

Phantom File	zinf15.txt, Adaptative 2 max
Phantom	Body
Device Position	FrontSide toward phantom
Band	GSM850
Channels	High
Signal	GSM

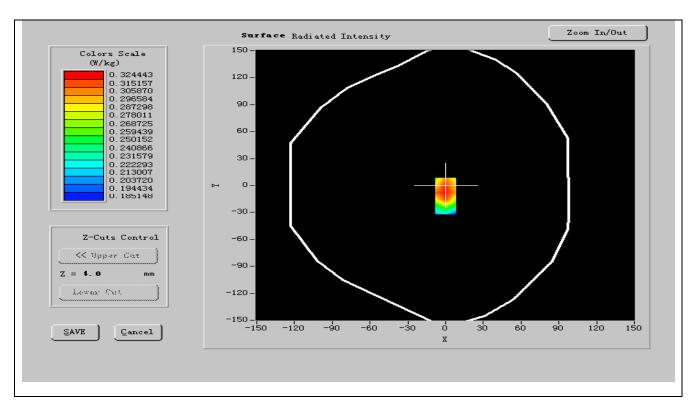
B. Instrumentations.

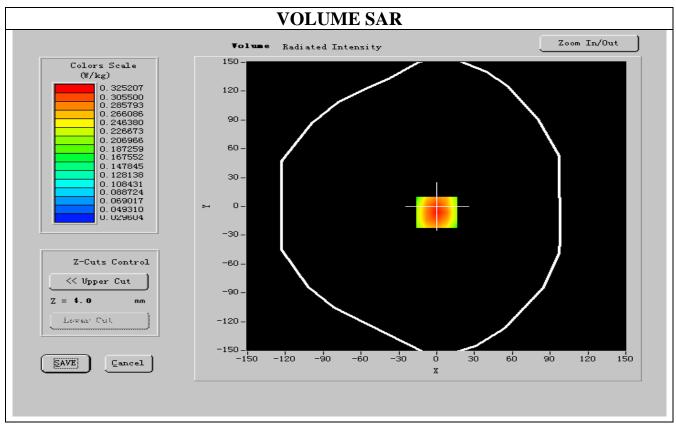
PC	HP (Pentium(R) V3.06GHz,	Calibration Due: N/A
	SN:375052-AA1)	
Wireless Communication	R&S (CMU200, SN:B23-03291)	Calibration Due: 05/25/2011
Test Set		
Network Analyzer	Agilent(E5071B, MY42301382)	Calibration Due: 03/24/2012
Voltmeter	Keithley (2000, SN:1015843)	Calibration Due: 05/25/2011
Signal Generator	Agilent (E8257C, SN:MY43321570)	Calibration Due: 03/24/2012
Amplifier	Mini-Circuits (ZHL-42,	Calibration Due: 07/29/2011
	SN:110405)	
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibration Due: 03/24/2012
Probe	Antennessa (SN:SN_1109_EP_100)	Calibration Due: 05/04/2011
DIPOLE 835	Antennessa (DIPC32,SN 48/05)	Calibration Due: 02/09/2012
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibration Due: N/A
Liquid	Antennessa	Calibration Due: N/A
Measurement SW	OPEN SAR V2.1	Calibration Due: N/A

Frequency (MHz)	848.800000
Relative permitivity (real part)	56.508121
Relative permitivity (imaginary part)	21.726601
Conductivity (S/m)	0.983288
Variation (%)	-1.120000
Ambient Temperature:	21.2°C
Liquid Temperature:	20.3 °C
ConvF:	20.00, 19.88, 27.77
Crest factor:	8:1
SURFACE SA	AR

Report No: KS110407B04-SF

Date of Issue: April 11, 2011

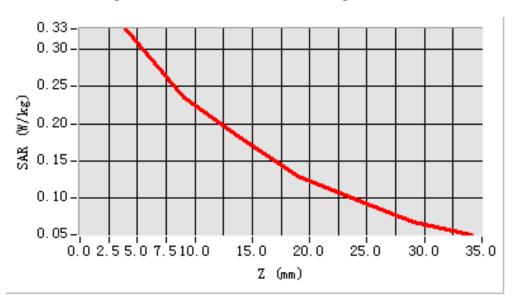




SAR 10g (W/Kg)	0.178396
SAR 1g (W/Kg)	0.331489



SAR, Z Axis Scan (X = 0, Y = -6)



Date of Issue: April 11, 2011

Date of measurement: April 11, 2011

A. Experimental conditions.

Phantom File	zinf15.txt, Adaptative 2 max
Phantom	Body
Device Position	BackSide toward phantom
Band	GSM850
Channels	Low
Signal	GSM

B. Instrumentations.

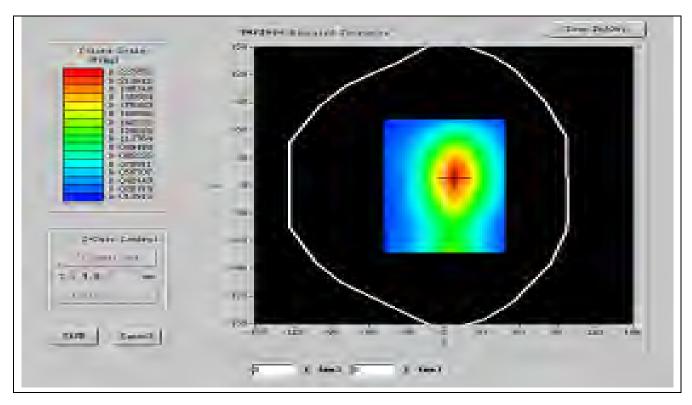
PC	HP (Pentium(R) V3.06GHz,	Calibration Due: N/A
	SN:375052-AA1)	
Wireless Communication Test Set	R&S (CMU200, SN:B23-03291)	Calibration Due: 05/25/2011
Network Analyzer	Agilent(E5071B, MY42301382)	Calibration Due: 03/24/2012
Voltmeter	Keithley (2000, SN:1015843)	Calibration Due: 05/25/2011
Signal Generator	Agilent (E8257C, SN:MY43321570)	Calibration Due: 03/24/2012
Amplifier	Mini-Circuits (ZHL-42,	Calibration Due: 07/29/2011
	SN:110405)	
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibration Due: 03/24/2012
Probe	Antennessa (SN:SN_1109_EP_100)	Calibration Due: 05/04/2011
DIPOLE 835	Antennessa (DIPC32,SN 48/05)	Calibration Due: 02/09/2012
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibration Due: N/A
Liquid	Antennessa	Calibration Due: N/A
Measurement SW	OPEN SAR V2.1	Calibration Due: N/A

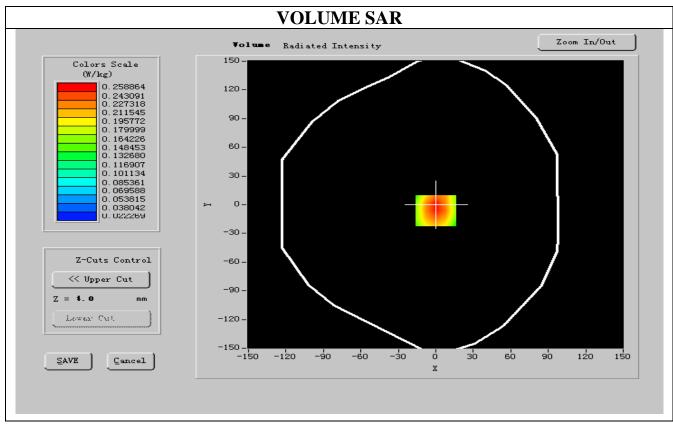
Frequency (MHz)	824.200000
Relative permitivity (real part)	56.514000
Relative permitivity (imaginary part)	21.654150
Conductivity (S/m)	0.984519
Variation (%)	-2.120000
Ambient Temperature:	21.2 °C
Liquid Temperature:	20.3 °C
ConvF:	20.00, 19.88, 27.77
Crest factor:	8:1
SURFACE SA	AR



Report No: KS110407B04-SF

Date of Issue: April 11, 2011

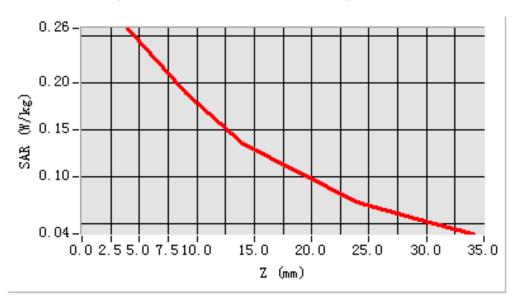




SAR 10g (W/Kg)	0.148815
SAR 1g (W/Kg)	0.318415



SAR, Z Axis Scan (X = 0, Y = -6)



Date of Issue: April 11, 2011

Date of measurement: April 11, 2011

A. Experimental conditions.

Phantom File	zinf15.txt, Adaptative 2 max
Phantom	Body
Device Position	BackSide toward phantom
Band	GSM850
Channels	Middle
Signal	GSM

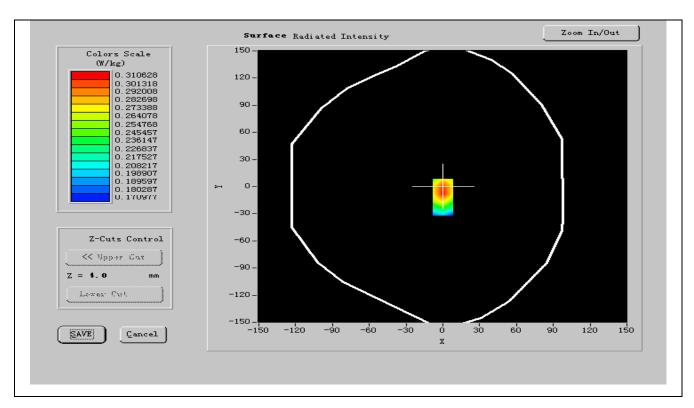
B. Instrumentations.

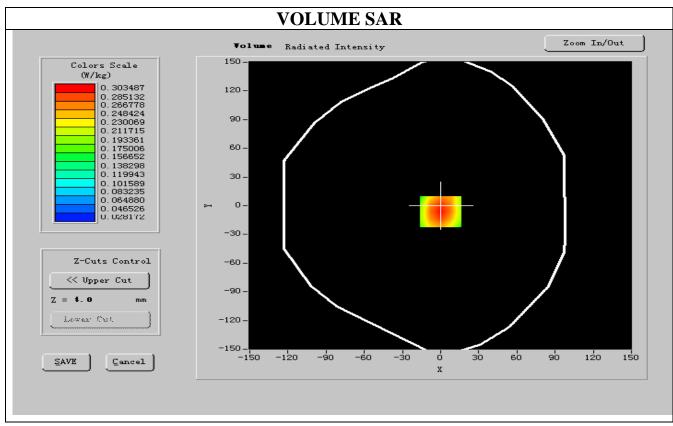
PC	HP (Pentium(R) V3.06GHz,	Calibration Due: N/A
	SN:375052-AA1)	
Wireless Communication	R&S (CMU200, SN:B23-03291)	Calibration Due: 05/25/2011
Test Set		
Network Analyzer	Agilent(E5071B, MY42301382)	Calibration Due: 03/24/2012
Voltmeter	Keithley (2000, SN:1015843)	Calibration Due: 05/25/2011
Signal Generator	Agilent (E8257C, SN:MY43321570)	Calibration Due: 03/24/2012
Amplifier	Mini-Circuits (ZHL-42,	Calibration Due: 07/29/2011
	SN:110405)	
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibration Due: 03/24/2012
Probe	Antennessa (SN:SN_1109_EP_100)	Calibration Due: 05/04/2011
DIPOLE 835	Antennessa (DIPC32,SN 48/05)	Calibration Due: 02/09/2012
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibration Due: N/A
Liquid	Antennessa	Calibration Due: N/A
Measurement SW	OPEN SAR V2.1	Calibration Due: N/A

Frequency (MHz)	836.600000
Relative permitivity (real part)	56.501935
Relative permitivity (imaginary part)	21.866249
Conductivity (S/m)	0.986052
Variation (%)	-2.120000
Ambient Temperature:	21.2 °C
Liquid Temperature:	20.3 °C
ConvF:	20.00, 19.88, 27.77
Crest factor:	8:1
SURFACE SA	AR

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Date of Issue: April 11, 2011

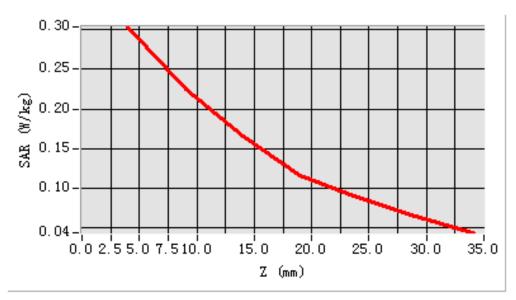




SAR 10g (W/Kg)	0.169889
SAR 1g (W/Kg)	0.293699



SAR, Z Axis Scan (X = 0, Y = -6)



Date of Issue: April 11, 2011

Date of measurement: April 11, 2011

Zoom Scan: 5 x 5 x 7 dx=5mm dy=5mm dz=5mm Z Axis Scan: 1 x 1 x 21 dx=20mm dy=20mm dz=5mm

A. Experimental conditions.

Phantom File	zinf15.txt, Adaptative 2 max
Phantom	Body
Device Position	BackSide toward phantom
Band	GSM850
Channels	High
Signal	GSM

B. Instrumentations.

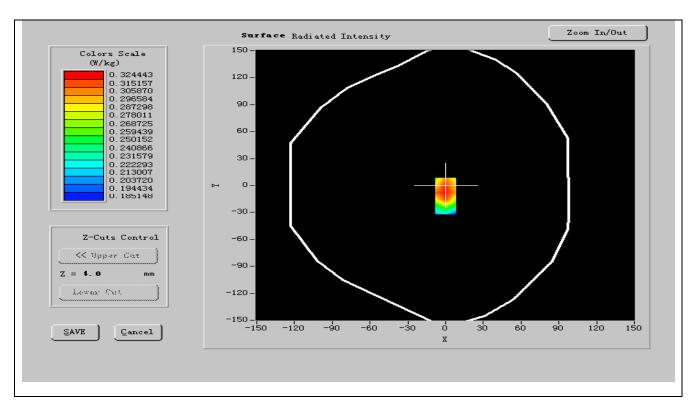
PC	HP (Pentium(R) V3.06GHz,	Calibration Due: N/A
	SN:375052-AA1)	
Wireless Communication	R&S (CMU200, SN:B23-03291)	Calibration Due: 05/25/2011
Test Set		
Network Analyzer	Agilent(E5071B, MY42301382)	Calibration Due: 03/24/2012
Voltmeter	Keithley (2000, SN:1015843)	Calibration Due: 05/25/2011
Signal Generator	Agilent (E8257C, SN:MY43321570)	Calibration Due: 03/24/2012
Amplifier	Mini-Circuits (ZHL-42,	Calibration Due: 07/29/2011
	SN:110405)	
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibration Due: 03/24/2012
Probe	Antennessa (SN:SN_1109_EP_100)	Calibration Due: 05/04/2011
DIPOLE 835	Antennessa (DIPC32,SN 48/05)	Calibration Due: 02/09/2012
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibration Due: N/A
Liquid	Antennessa	Calibration Due: N/A
Measurement SW	OPEN SAR V2.1	Calibration Due: N/A

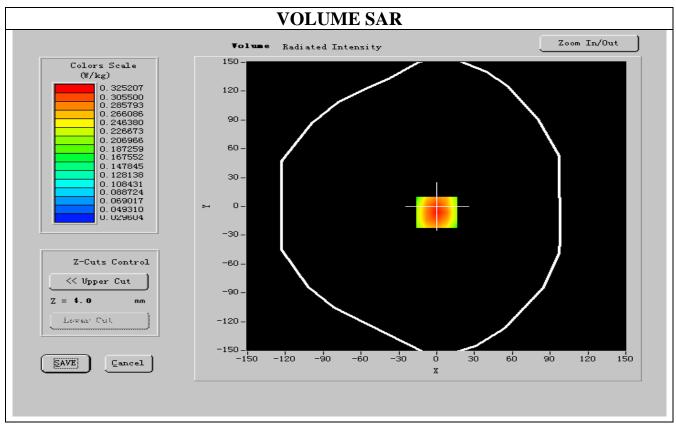
Frequency (MHz)	848.800000
Relative permitivity (real part)	56.508121
Relative permitivity (imaginary part)	21.726601
Conductivity (S/m)	0.983288
Variation (%)	-1.120000
Ambient Temperature:	21.2 °C
Liquid Temperature:	20.3 °C
ConvF:	20.00, 19.88, 27.77
Crest factor:	8:1
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Report No: KS110407B04-SF

Date of Issue: April 11, 2011

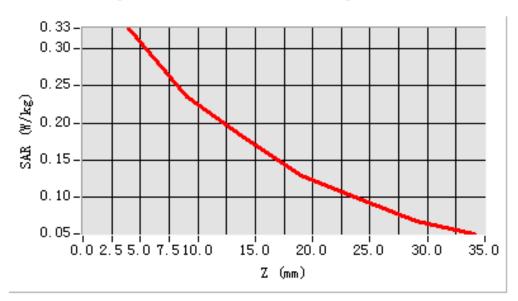




SAR 10g (W/Kg)	0.141190
SAR 1g (W/Kg)	0.309930



SAR, Z Axis Scan (X = 0, Y = -6)



Date of Issue: April 11, 2011

Date of measurement: April 11, 2011

A. Experimental conditions.

Phantom File	zinf15.txt, Adaptative 2 max
Phantom	Body
Device Position	FrontSide toward phantom
Band	GPRS850
Channels	Low
Signal	GPRS

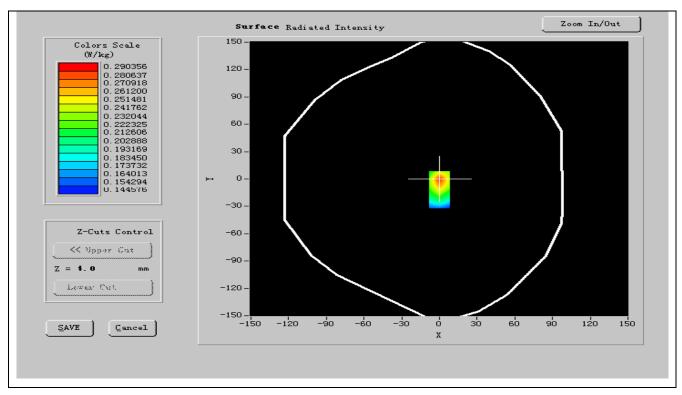
B. Instrumentations.

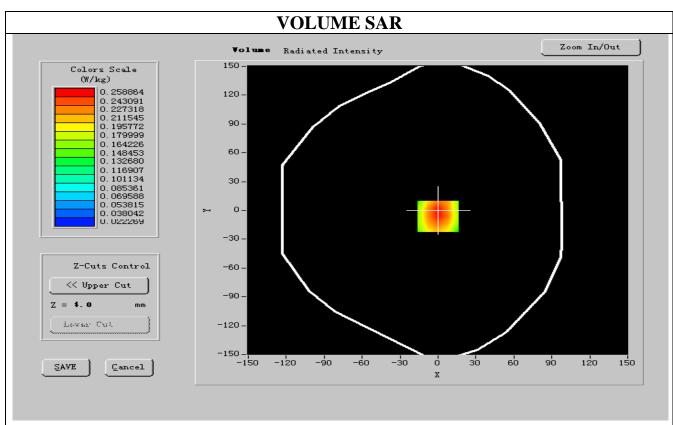
PC	HP (Pentium(R) V3.06GHz,	Calibration Due: N/A
	SN:375052-AA1)	
Wireless Communication Test Set	R&S (CMU200, SN:B23-03291)	Calibration Due: 05/25/2011
Network Analyzer	Agilent(E5071B, MY42301382)	Calibration Due: 03/24/2012
Voltmeter	Keithley (2000, SN:1015843)	Calibration Due: 05/25/2011
Signal Generator	Agilent (E8257C, SN:MY43321570)	Calibration Due: 03/24/2012
Amplifier	Mini-Circuits (ZHL-42,	Calibration Due: 07/29/2011
	SN:110405)	
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibration Due: 03/24/2012
Probe	Antennessa (SN:SN_1109_EP_100)	Calibration Due: 05/04/2011
DIPOLE 835	Antennessa (DIPC32,SN 48/05)	Calibration Due: 02/09/2012
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibration Due: N/A
Liquid	Antennessa	Calibration Due: N/A
Measurement SW	OPEN SAR V2.1	Calibration Due: N/A

Frequency (MHz)	824.200000	
Relative permitivity (real part)	56.584000	
Relative permitivity (imaginary part)	21.654150	
Conductivity (S/m)	0.971519	
Variation (%)	-1.120000	
Ambient Temperature:	21.2 °C	
Liquid Temperature:	20.3 °C	
ConvF:	20.00, 19.88, 27.77	
Crest factor:	2:1	
SURFACE SAR		

Report No: KS110407B04-SF

Date of Issue: April 11, 2011

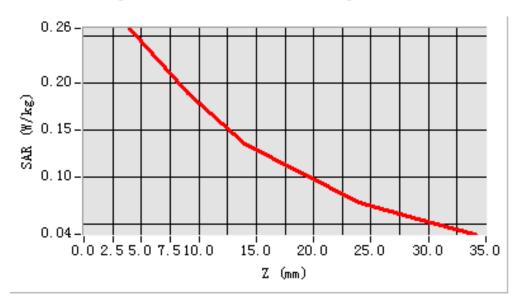




SAR 10g (W/Kg)	0.172990
SAR 1g (W/Kg)	0.328005



SAR, Z Axis Scan (X = 0, Y = -6)



Date of Issue: April 11, 2011

Date of measurement: April 11, 2011

A. Experimental conditions.

Phantom File	zinf15.txt, Adaptative 2 max
Phantom	Body
Device Position	FrontSide toward phantom
Band	GPRS850
Channels	Middle
Signal	GPRS

B. Instrumentations.

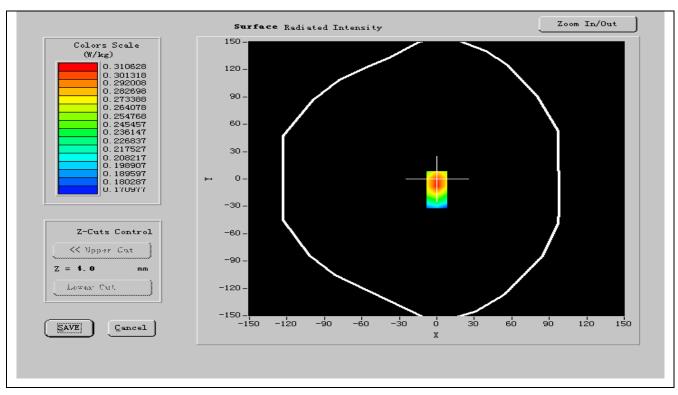
PC	HP (Pentium(R) V3.06GHz,	Calibration Due: N/A
	SN:375052-AA1)	
Wireless Communication	R&S (CMU200, SN:B23-03291)	Calibration Due: 05/25/2011
Test Set		
Network Analyzer	Agilent(E5071B, MY42301382)	Calibration Due: 03/24/2012
Voltmeter	Keithley (2000, SN:1015843)	Calibration Due: 05/25/2011
Signal Generator	Agilent (E8257C, SN:MY43321570)	Calibration Due: 03/24/2012
Amplifier	Mini-Circuits (ZHL-42,	Calibration Due: 07/29/2011
	SN:110405)	
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibration Due: 03/24/2012
Probe	Antennessa (SN:SN_1109_EP_100)	Calibration Due: 05/04/2011
DIPOLE 835	Antennessa (DIPC32,SN 48/05)	Calibration Due: 02/09/2012
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibration Due: N/A
Liquid	Antennessa	Calibration Due: N/A
Measurement SW	OPEN SAR V2.1	Calibration Due: N/A

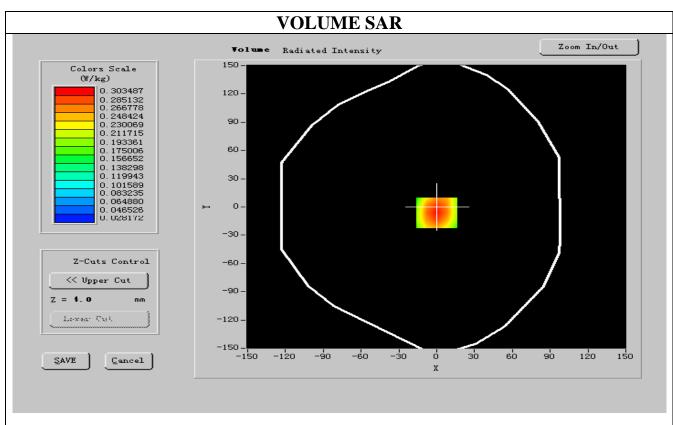
Frequency (MHz)	836.600000
Relative permitivity (real part)	55.501999
Relative permitivity (imaginary part)	21.866249
Conductivity (S/m)	1.006342
Variation (%)	-0.200000
Ambient Temperature:	21.2 °C
Liquid Temperature:	20.3 °C
ConvF:	20.00, 19.88, 27.77
Crest factor:	2:1
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Report No: KS110407B04-SF

Date of Issue: April 11, 2011

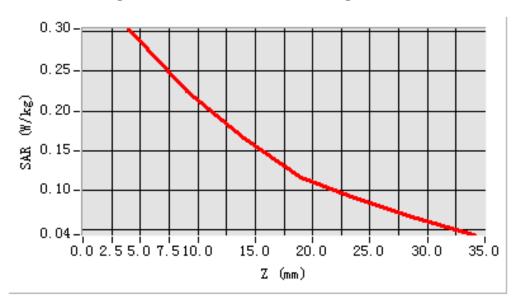




SAR 10g (W/Kg)	0.168597
SAR 1g (W/Kg)	0.270348



SAR, Z Axis Scan (X = 0, Y = -6)



Date of Issue: April 11, 2011

Date of measurement: April 11, 2011

A. Experimental conditions.

Phantom File	zinf15.txt, Adaptative 2 max
Phantom	Body
Device Position	FrontSide toward phantom
Band	GPRS850
Channels	High
Signal	GPRS

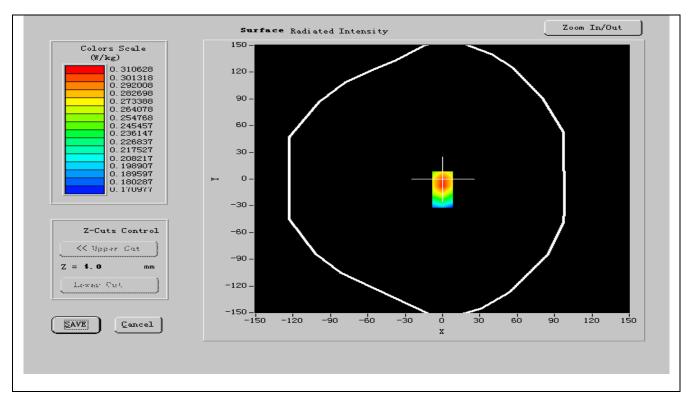
B. Instrumentations.

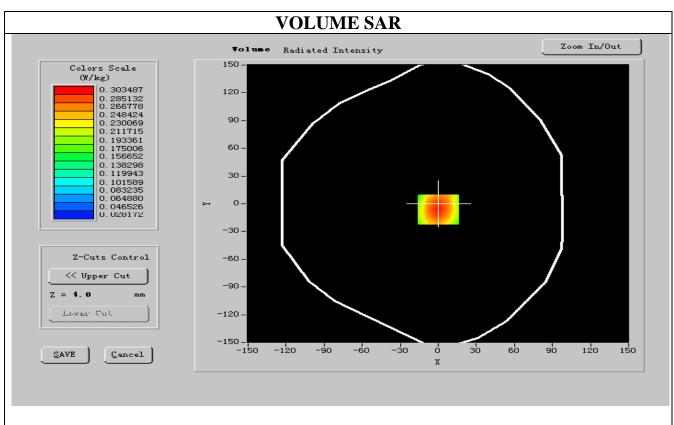
PC	HP (Pentium(R) V3.06GHz,	Calibration Due: N/A
	SN:375052-AA1)	
Wireless Communication	R&S (CMU200, SN:B23-03291)	Calibration Due: 05/25/2011
Test Set		
Network Analyzer	Agilent(E5071B, MY42301382)	Calibration Due: 03/24/2012
Voltmeter	Keithley (2000, SN:1015843)	Calibration Due: 05/25/2011
Signal Generator	Agilent (E8257C, SN:MY43321570)	Calibration Due: 03/24/2012
Amplifier	Mini-Circuits (ZHL-42,	Calibration Due: 07/29/2011
	SN:110405)	
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibration Due: 03/24/2012
Probe	Antennessa (SN:SN_1109_EP_100)	Calibration Due: 05/04/2011
DIPOLE 835	Antennessa (DIPC32,SN 48/05)	Calibration Due: 02/09/2012
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibration Due: N/A
Liquid	Antennessa	Calibration Due: N/A
Measurement SW	OPEN SAR V2.1	Calibration Due: N/A

Frequency (MHz)	848.800000	
Relative permitivity (real part)	55.576000	
Relative permitivity (imaginary part)	21.726601	
Conductivity (S/m)	0.974288	
Variation (%)	-0.220000	
Ambient Temperature:	21.2 °C	
Liquid Temperature:	20.3 °C	
ConvF:	20.00, 19.88, 27.77	
Crest factor:	2:1	
SURFACE SAR		

Report No: KS110407B04-SF

Date of Issue: April 11, 2011

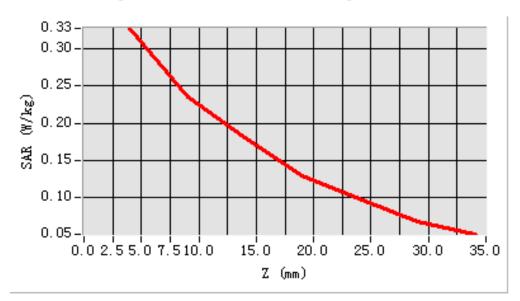




SAR 10g (W/Kg)	0.172852
SAR 1g (W/Kg)	0.311462



SAR, Z Axis Scan (X = 0, Y = -6)



Date of Issue: April 11, 2011

Date of measurement: April 11, 2011

A. Experimental conditions.

Phantom File	zinf15.txt, Adaptative 2 max
Phantom	Body
Device Position	BackSide toward phantom
Band	GPRS850
Channels	Low
Signal	GPRS

B. Instrumentations.

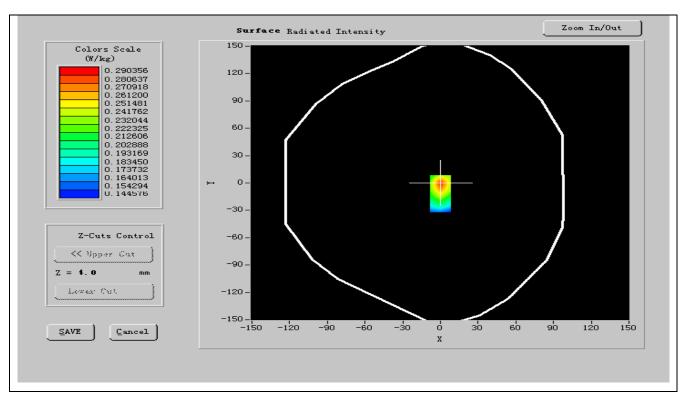
PC	HP (Pentium(R) V3.06GHz,	Calibration Due: N/A
	SN:375052-AA1)	
Wireless Communication	R&S (CMU200, SN:B23-03291)	Calibration Due: 05/25/2011
Test Set		
Network Analyzer	Agilent(E5071B, MY42301382)	Calibration Due: 03/24/2012
Voltmeter	Keithley (2000, SN:1015843)	Calibration Due: 05/25/2011
Signal Generator	Agilent (E8257C, SN:MY43321570)	Calibration Due: 03/24/2012
Amplifier	Mini-Circuits (ZHL-42,	Calibration Due: 07/29/2011
	SN:110405)	
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibration Due: 03/24/2012
Probe	Antennessa (SN:SN_1109_EP_100)	Calibration Due: 05/04/2011
DIPOLE 835	Antennessa (DIPC32,SN 48/05)	Calibration Due: 02/09/2012
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibration Due: N/A
Liquid	Antennessa	Calibration Due: N/A
Measurement SW	OPEN SAR V2.1	Calibration Due: N/A

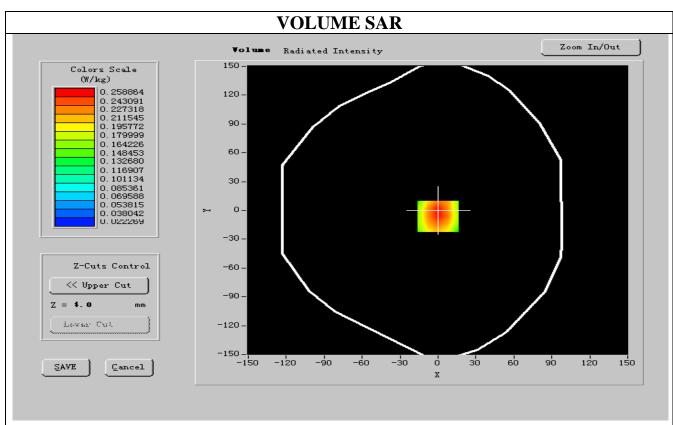
Frequency (MHz)	824.200000	
Relative permitivity (real part)	56.584000	
Relative permitivity (imaginary part)	21.654150	
Conductivity (S/m)	0.971519	
Variation (%)	-1.120000	
Ambient Temperature:	21.2 °C	
Liquid Temperature:	20.3 °C	
ConvF:	20.00, 19.88, 27.77	
Crest factor:	2:1	
SURFACE SAR		

Com Report

Report No: KS110407B04-SF

Date of Issue: April 11, 2011

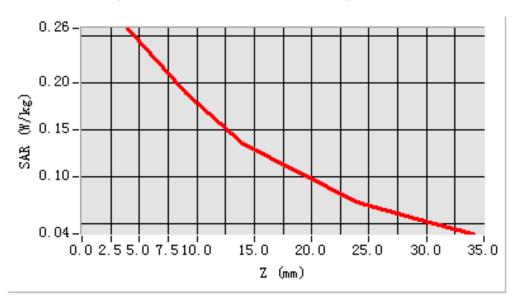




SAR 10g (W/Kg)	0.169397
SAR 1g (W/Kg)	0.284973



SAR, Z Axis Scan (X = 0, Y = -6)



Date of Issue: April 11, 2011

Date of measurement: April 11, 2011

Zoom Scan: 5 x 5 x 7 dx=5mm dy=5mm dz=5mm Z Axis Scan: 1 x 1 x 21 dx=20mm dy=20mm dz=5mm

A. Experimental conditions.

Phantom File	zinf15.txt, Adaptative 2 max	
Phantom	Body	
Device Position	BackSide toward phantom	
Band	GPRS850	
Channels	Middle	
Signal	GPRS	

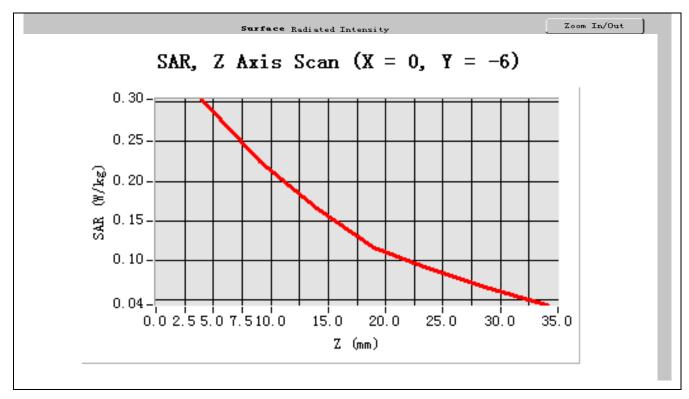
B. Instrumentations.

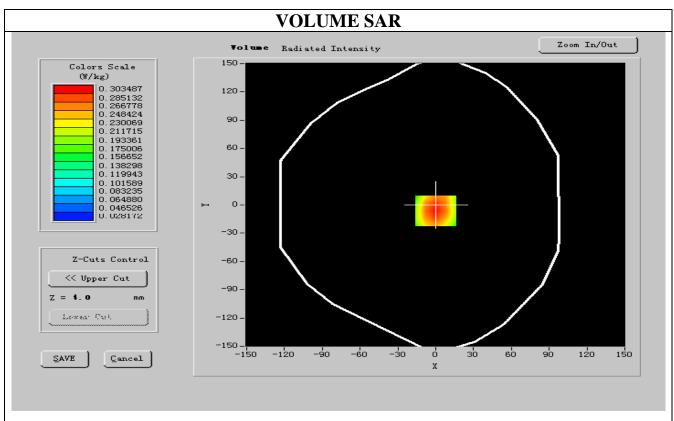
PC	HP (Pentium(R) V3.06GHz,	Calibration Due: N/A
	SN:375052-AA1)	
Wireless Communication	R&S (CMU200, SN:B23-03291)	Calibration Due: 05/25/2011
Test Set		
Network Analyzer	Agilent(E5071B, MY42301382)	Calibration Due: 03/24/2012
Voltmeter	Keithley (2000, SN:1015843)	Calibration Due: 05/25/2011
Signal Generator	Agilent (E8257C, SN:MY43321570)	Calibration Due: 03/24/2012
Amplifier	Mini-Circuits (ZHL-42,	Calibration Due: 07/29/2011
	SN:110405)	
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibration Due: 03/24/2012
Probe	Antennessa (SN:SN_1109_EP_100)	Calibration Due: 05/04/2011
DIPOLE 835	Antennessa (DIPC32,SN 48/05)	Calibration Due: 02/09/2012
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibration Due: N/A
Liquid	Antennessa	Calibration Due: N/A
Measurement SW	OPEN SAR V2.1	Calibration Due: N/A

Frequency (MHz)	836.600000
Relative permitivity (real part)	55.501999
Relative permitivity (imaginary part)	21.866249
Conductivity (S/m)	1.006342
Variation (%)	-0.200000
Ambient Temperature:	21.2 °C
Liquid Temperature:	20.3 °C
ConvF:	20.00, 19.88, 27.77
Crest factor:	2:1
SURFACE SA	AR



Date of Issue: April 11, 2011

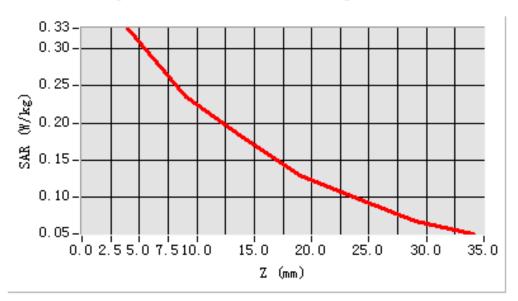




SAR 10g (W/Kg)	0.167352
SAR 1g (W/Kg)	0.333152



SAR, Z Axis Scan (X = 0, Y = -6)



Date of Issue: April 11, 2011

Date of measurement: April 11, 2011

A. Experimental conditions.

Phantom File	zinf15.txt, Adaptative 2 max	
Phantom	Body	
Device Position	BackSide toward phantom	
Band	GPRS850	
Channels	High	
Signal	GPRS	

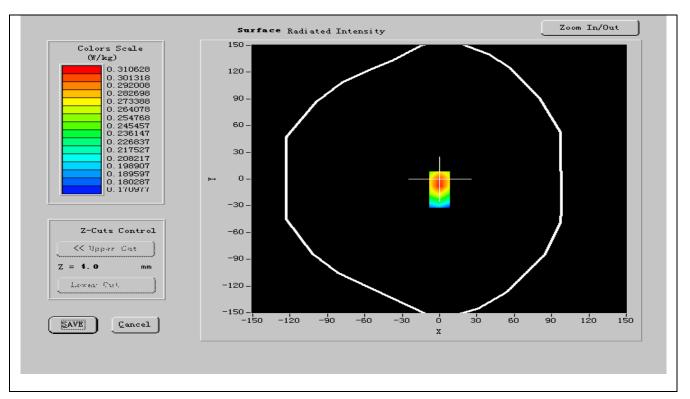
B. Instrumentations.

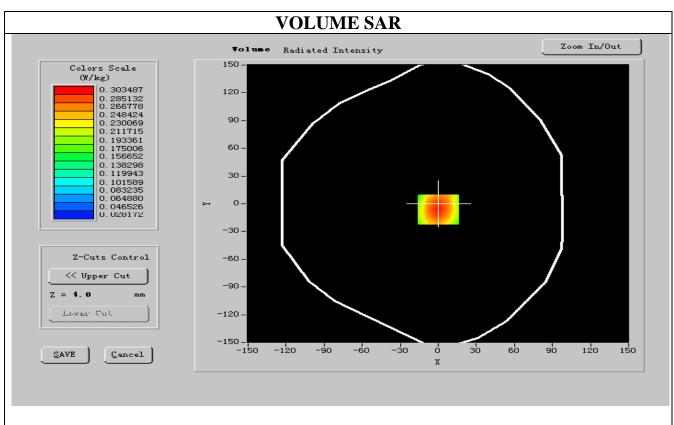
PC	HP (Pentium(R) V3.06GHz,	Calibration Due: N/A
	SN:375052-AA1)	
Wireless Communication Test Set	R&S (CMU200, SN:B23-03291)	Calibration Due: 05/25/2011
Network Analyzer	Agilent(E5071B, MY42301382)	Calibration Due: 03/24/2012
Voltmeter	Keithley (2000, SN:1015843)	Calibration Due: 05/25/2011
Signal Generator	Agilent (E8257C, SN:MY43321570)	Calibration Due: 03/24/2012
Amplifier	Mini-Circuits (ZHL-42,	Calibration Due: 07/29/2011
	SN:110405)	
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibration Due: 03/24/2012
Probe	Antennessa (SN:SN_1109_EP_100)	Calibration Due: 05/04/2011
DIPOLE 835	Antennessa (DIPC32,SN 48/05)	Calibration Due: 02/09/2012
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibration Due: N/A
Liquid	Antennessa	Calibration Due: N/A
Measurement SW	OPEN SAR V2.1	Calibration Due: N/A

Frequency (MHz)	848.800000	
Relative permitivity (real part)	55.576000	
Relative permitivity (imaginary part)	21.726601	
Conductivity (S/m)	0.974288	
Variation (%)	-0.220000	
Ambient Temperature:	21.2 °C	
Liquid Temperature:	20.3 °C	
ConvF:	20.00, 19.88, 27.77	
Crest factor:	2:1	
SURFACE SAR		

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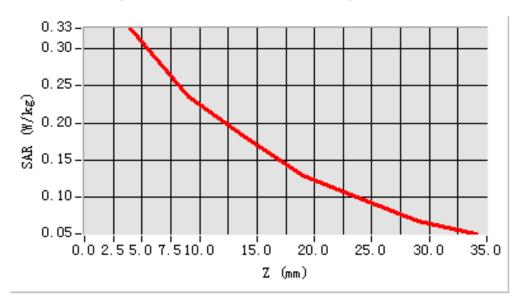




SAR 10g (W/Kg)	0.159804
SAR 1g (W/Kg)	0.300318



SAR, Z Axis Scan (X = 0, Y = -6)



□. 1900MHz Band RESULTS

ш. 190	OMHZ Band RESULTS
TYPE	PARAMETERS
	Measurement 1: Left Head with Cheek device position on Low Channel in GSM1900 mode
	Measurement 2: Left Head with Cheek device position on Middle Channel in GSM1900 mode
	Measurement 3: Left Head with Cheek device position on High Channel in GSM1900 mode
	Measurement 4: Left Head with Tilt device position on Low Channel in GSM1900 mode
	Measurement 5: Left Head with Tilt device position on Middle Channel in GSM1900
	mode Measurement 6: Left Head with Tilt device position on High Channel in GSM1900
	mode <u>Measurement 7:</u> Right Head with Cheek device position on Low Channel in GSM1900
	mode Measurement 8: Right Head with Cheek device position on Middle Channel in
	GSM1900 mode Measurement 9: Right Head with Cheek device position on High Channel in GSM1900
	mode Measurement 10: Right Head with Tilt device position on Low Channel in GSM1900
	mode Measurement 11: Right Head with Tilt device position on Middle Channel in
Phone	GSM1900 mode Measurement 12: Right Head with Tilt device position on High Channel in GSM1900
	mode
	Measurement 13: Front Side toward phantom 15mm, Low Channel in GSM1900 mode Measurement 14: Front Side toward phantom 15mm, Middle Channel in GSM1900
	mode
	Measurement 15: Front Side toward phantom 15mm, High Channel in GSM1900 mode
	Measurement 16: Back Side toward phantom 15mm, Low Channel in GSM1900 mode Measurement 17: Back Side toward phantom 15mm, Middle Channel in GSM1900
	mode
	Measurement 18: Back Side toward phantom 15mm, High Channel in GSM1900 mode
	Measurement 19: Front Side toward phantom 15mm, Low Channel in GPRS1900 mode
	Measurement 20: Front Side toward phantom 15mm, Middle Channel in GPRS1900
	mode Measurement 21: Front Side toward phantom 15mm, High Channel in GPRS1900
	mode Measurement 22: Back Side toward phantom 15mm, Low Channel in GPRS1900 mode
	Measurement 23: Back Side toward phantom 15mm, Middle Channel in GPRS1900 mode
	Measurement 24: Back Side toward phantom 15mm, High Channel in GPRS1900 mode

Date of Issue: April 11, 2011

Date of measurement: April 11, 2011

Zoom Scan: 5 x 5 x 7 dx=5mm dy=5mm dz=5mm Z Axis Scan: 1 x 1 x 21 dx=20mm dy=20mm dz=5mm

A. Experimental conditions.

Phantom File	zinf15.txt, Adaptative 2 max	
Phantom	Left Head	
Device Position	Cheek	
Band	GSM1900	
Channels	Low	
Signal	GSM	

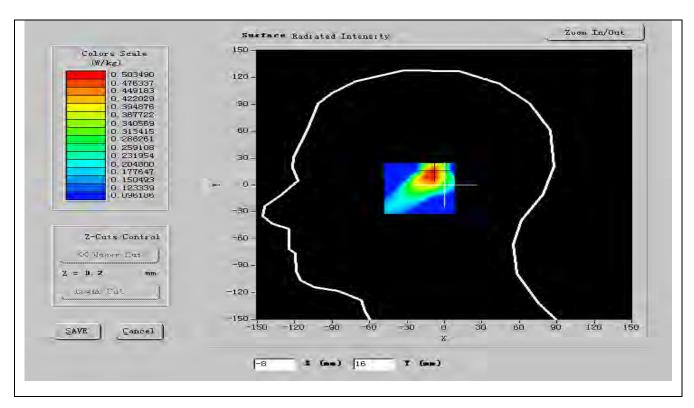
B. Instrumentations.

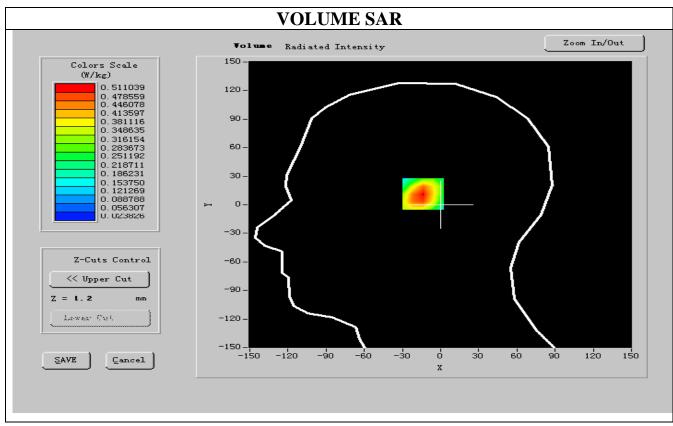
D. Histi differitations	<u></u>	
PC	HP (Pentium(R) V3.06GHz, SN:375052-AA1)	Calibration Due: N/A
Wireless Communication Test Set	R&S (CMU200, SN:B23-03291)	Calibration Due: 05/25/2011
Network Analyzer	Agilent(E5071B, MY42301382)	Calibration Due: 03/24/2012
Voltmeter	Keithley (2000, SN:1015843)	Calibration Due: 05/25/2011
Signal Generator	Agilent (E8257C, SN:MY43321570)	Calibration Due: 03/24/2012
Amplifier	Mini-Circuits (ZHL-42,	Calibration Due: 07/29/2011
	SN:110405)	
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibration Due: 03/24/2012
Probe	Antennessa (SN:SN_1109_EP_100)	Calibration Due: 05/04/2011
DIPOLE 1900	Antennessa (DIPG35,SN 48/05)	Calibration Due: 02/09/2012
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibration Due: N/A
Liquid	Antennessa	Calibration Due: N/A
Measurement SW	OPEN SAR V2.1	Calibration Due: N/A

Frequency (MHz)	1850.200000	
Relative permitivity (real part)	40.213000	
Relative permitivity (imaginary part)	13.584900	
Conductivity (S/m)	1.410528	
Variation (%)	-1.220000	
Ambient Temperature:	21 °C	
Liquid Temperature:	20.4 °C	
ConvF:	41.05, 42.35, 55.45	
Crest factor:	8:1	
SURFACE SAR		

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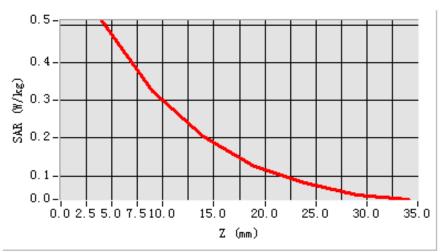




SAR 10g (W/Kg)	0.352363
SAR 1g (W/Kg)	0.540081



SAR, Z Axis Scan (X = -10, Y = 12)



Date of Issue: April 11, 2011

Date of measurement: April 11, 2011

A. Experimental conditions.

Phantom File	zinf15.txt, Adaptative 2 max
Phantom	Left Head
Device Position	Cheek
Band	GSM1900
Channels	Middle
Signal	GSM

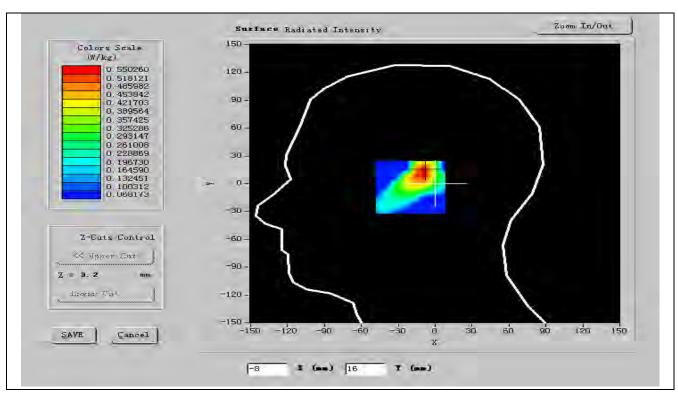
B. Instrumentations.

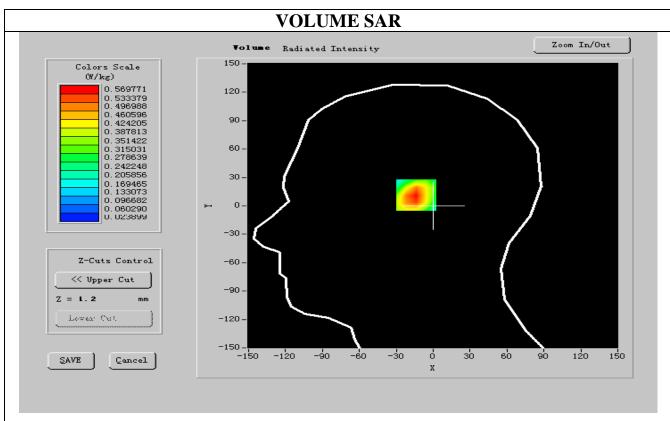
PC	HP (Pentium(R) V3.06GHz,	Calibration Due: N/A
	SN:375052-AA1)	
Wireless Communication Test Set	R&S (CMU200, SN:B23-03291)	Calibration Due: 05/25/2011
Network Analyzer	Agilent(E5071B, MY42301382)	Calibration Due: 03/24/2012
Voltmeter	Keithley (2000, SN:1015843)	Calibration Due: 05/25/2011
Signal Generator	Agilent (E8257C, SN:MY43321570)	Calibration Due: 03/24/2012
Amplifier	Mini-Circuits (ZHL-42,	Calibration Due: 07/29/2011
	SN:110405)	
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibration Due: 03/24/2012
Probe	Antennessa (SN:SN_1109_EP_100)	Calibration Due: 05/04/2011
DIPOLE 1900	Antennessa (DIPG35,SN 48/05)	Calibration Due: 02/09/2012
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibration Due: N/A
Liquid	Antennessa	Calibration Due: N/A
Measurement SW	OPEN SAR V2.1	Calibration Due: N/A

Frequency (MHz)	1880.000000
Relative permitivity (real part)	40.198001
Relative permitivity (imaginary part)	13.813800
Conductivity (S/m)	1.422775
Variation (%)	-0.210000
Ambient Temperature:	21 °C
Liquid Temperature:	20.4 °C
ConvF:	41.05, 42.35, 55.45
Crest factor:	8:1
SURFACE SA	AR

Report No: KS110407B04-SF

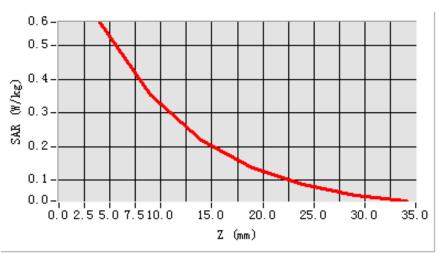
Date of Issue: April 11, 2011





SAR 10g (W/Kg)	0.365669
SAR 1g (W/Kg)	0.507274

SAR, Z Axis Scan (X = -10, Y = 12)



Date of Issue: April 11, 2011

Date of measurement: April 11, 2011

A. Experimental conditions.

Phantom File	zinf15.txt, Adaptative 2 max
Phantom	Left Head
Device Position	Cheek
Band	GSM1900
Channels	High
Signal	GSM

B. Instrumentations.

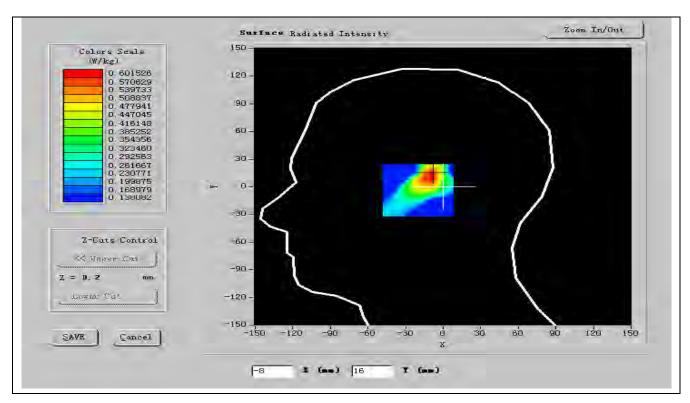
PC	HP (Pentium(R) V3.06GHz,	Calibration Due: N/A
	SN:375052-AA1)	
Wireless Communication Test Set	R&S (CMU200, SN:B23-03291)	Calibration Due: 05/25/2011
Network Analyzer	Agilent(E5071B, MY42301382)	Calibration Due: 03/24/2012
Voltmeter	Keithley (2000, SN:1015843)	Calibration Due: 05/25/2011
Signal Generator	Agilent (E8257C, SN:MY43321570)	Calibration Due: 03/24/2012
Amplifier	Mini-Circuits (ZHL-42,	Calibration Due: 07/29/2011
	SN:110405)	
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibration Due: 03/24/2012
Probe	Antennessa (SN:SN_1109_EP_100)	Calibration Due: 05/04/2011
DIPOLE 1900	Antennessa (DIPG35,SN 48/05)	Calibration Due: 02/09/2012
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibration Due: N/A
Liquid	Antennessa	Calibration Due: N/A
Measurement SW	OPEN SAR V2.1	Calibration Due: N/A

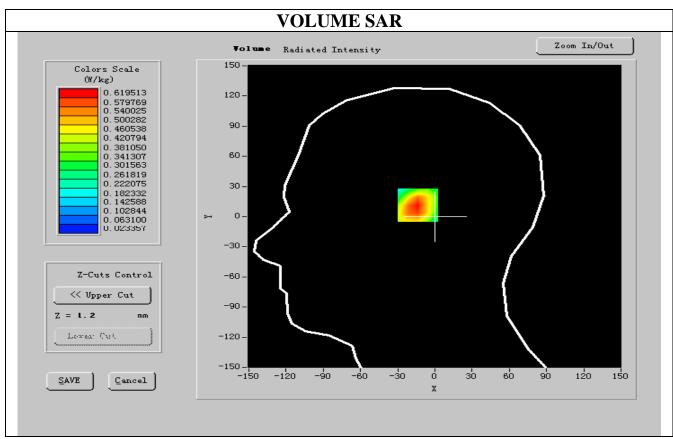
Frequency (MHz)	1909.800000
Relative permitivity (real part)	40.205999
Relative permitivity (imaginary part)	13.669900
Conductivity (S/m)	1.420413
Variation (%)	-0.030000
Ambient Temperature:	21 °C
Liquid Temperature:	20.4 °C
ConvF:	41.05, 42.35, 55.45
Crest factor:	8:1
SURFACE SA	AR



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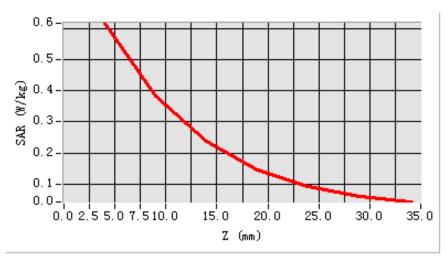


SAR 10g (W/Kg)	0.497197
SAR 1g (W/Kg)	0.677355



Date of Issue: April 11, 2011

SAR, Z Axis Scan (X = -10, Y = 12)



Date of Issue: April 11, 2011

Date of measurement: April 11, 2011

Zoom Scan: 5 x 5 x 7 dx=5mm dy=5mm dz=5mm Z Axis Scan: 1 x 1 x 21 dx=20mm dy=20mm dz=5mm

A. Experimental conditions.

Phantom File	zinf15.txt, Adaptative 2 max
Phantom	Left Head
Device Position	Tilt
Band	GSM1900
Channels	Low
Signal	GSM

B. Instrumentations.

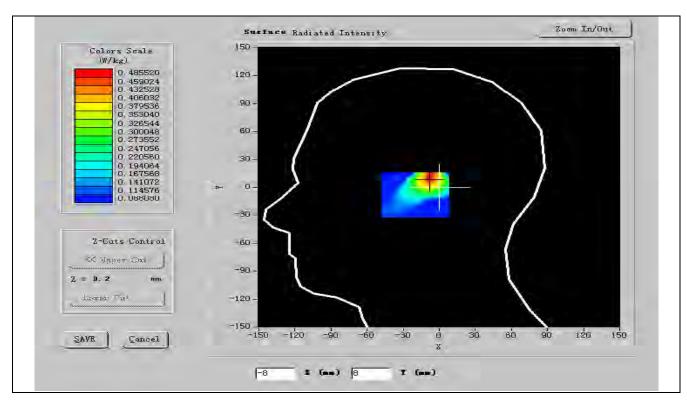
PC	HP (Pentium(R) V3.06GHz,	Calibration Due: N/A
	SN:375052-AA1)	
Wireless Communication	R&S (CMU200, SN:B23-03291)	Calibration Due: 05/25/2011
Test Set		
Network Analyzer	Agilent(E5071B, MY42301382)	Calibration Due: 03/24/2012
Voltmeter	Keithley (2000, SN:1015843)	Calibration Due: 05/25/2011
Signal Generator	Agilent (E8257C, SN:MY43321570)	Calibration Due: 03/24/2012
Amplifier	Mini-Circuits (ZHL-42,	Calibration Due: 07/29/2011
	SN:110405)	
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibration Due: 03/24/2012
Probe	Antennessa (SN:SN_1109_EP_100)	Calibration Due: 05/04/2011
DIPOLE 1900	Antennessa (DIPG35,SN 48/05)	Calibration Due: 02/09/2012
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibration Due: N/A
Liquid	Antennessa	Calibration Due: N/A
Measurement SW	OPEN SAR V2.1	Calibration Due: N/A

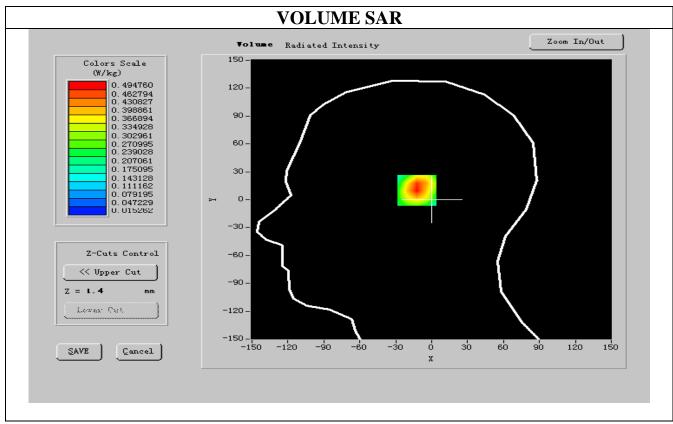
Frequency (MHz)	1850.200000	
Relative permitivity (real part)	40.213000	
Relative permitivity (imaginary part)	13.584900	
Conductivity (S/m)	1.426657	
Variation (%)	-1.400000	
Ambient Temperature:	21 °C	
Liquid Temperature:	20.4 °C	
ConvF:	41.05, 42.35, 55.45	
Crest factor:	8:1	
SURFACE SAR		

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Date of Issue: April 11, 2011

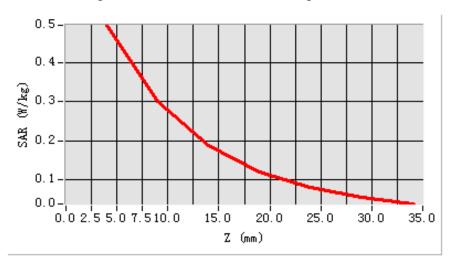




SAR 10g (W/Kg)	0.329233
SAR 1g (W/Kg)	0.511840



SAR, Z Axis Scan (X = -8, Y = 10)



Date of Issue: April 11, 2011

Date of measurement: April 11, 2011

A. Experimental conditions.

Phantom File	zinf15.txt, Adaptative 2 max
Phantom	Left Head
Device Position	Tilt
Band	GSM1900
Channels	Middle
Signal	GSM

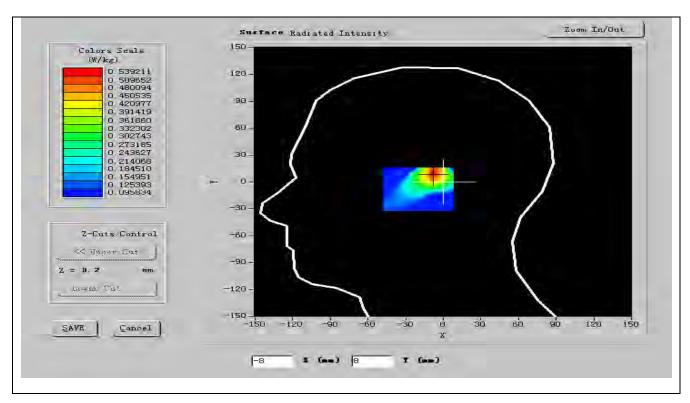
B. Instrumentations.

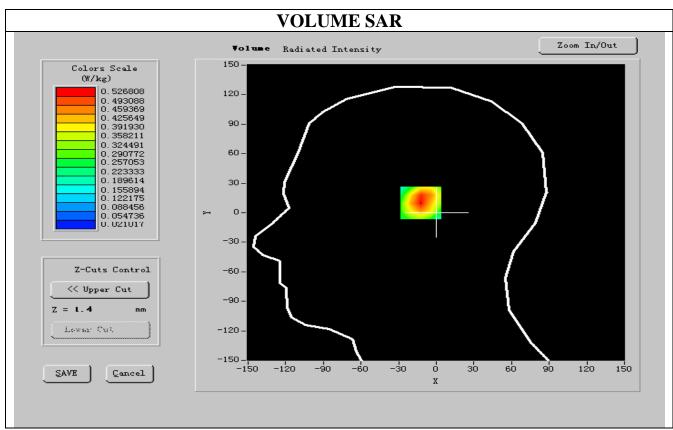
PC	HP (Pentium(R) V3.06GHz,	Calibration Due: N/A
	SN:375052-AA1)	
Wireless Communication	R&S (CMU200, SN:B23-03291)	Calibration Due: 05/25/2011
Test Set		
Network Analyzer	Agilent(E5071B, MY42301382)	Calibration Due: 03/24/2012
Voltmeter	Keithley (2000, SN:1015843)	Calibration Due: 05/25/2011
Signal Generator	Agilent (E8257C, SN:MY43321570)	Calibration Due: 03/24/2012
Amplifier	Mini-Circuits (ZHL-42,	Calibration Due: 07/29/2011
	SN:110405)	
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibration Due: 03/24/2012
Probe	Antennessa (SN:SN_1109_EP_100)	Calibration Due: 05/04/2011
DIPOLE 1900	Antennessa (DIPG35,SN 48/05)	Calibration Due: 02/09/2012
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibration Due: N/A
Liquid	Antennessa	Calibration Due: N/A
Measurement SW	OPEN SAR V2.1	Calibration Due: N/A

Frequency (MHz)	1880.000000
Relative permitivity (real part)	40.193001
Relative permitivity (imaginary part)	13.813800
Conductivity (S/m)	1.422173
Variation (%)	-0.420000
Ambient Temperature:	21 °C
Liquid Temperature:	20.4 °C
ConvF:	41.05, 42.35, 55.45
Crest factor:	8:1
SURFACE SA	AR

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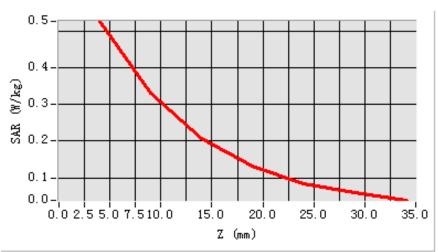


SAR 10g (W/Kg)	0.324185
SAR 1g (W/Kg)	0.488868



Date of Issue: April 11, 2011

SAR, Z Axis Scan (X = -8, Y = 10)



Date of Issue: April 11, 2011

Date of measurement: April 11, 2011

A. Experimental conditions.

Phantom File	zinf15.txt, Adaptative 2 max
Phantom	Left Head
Device Position	Tilt
Band	GSM1900
Channels	High
Signal	GSM

B. Instrumentations.

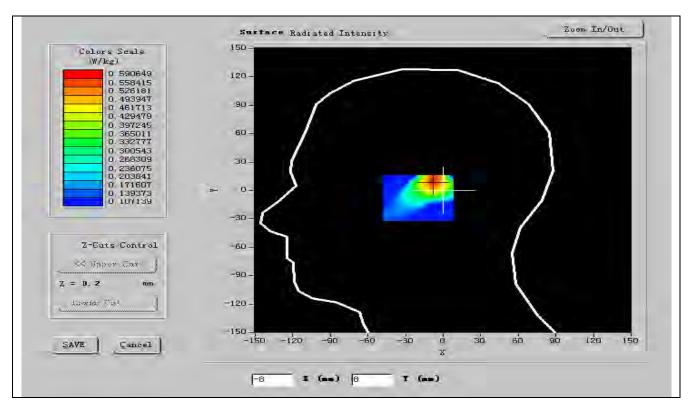
PC	HP (Pentium(R) V3.06GHz,	Calibration Due: N/A
	SN:375052-AA1)	
Wireless Communication Test Set	R&S (CMU200, SN:B23-03291)	Calibration Due: 05/25/2011
Network Analyzer	Agilent(E5071B, MY42301382)	Calibration Due: 03/24/2012
Voltmeter	Keithley (2000, SN:1015843)	Calibration Due: 05/25/2011
Signal Generator	Agilent (E8257C, SN:MY43321570)	Calibration Due: 03/24/2012
Amplifier	Mini-Circuits (ZHL-42,	Calibration Due: 07/29/2011
	SN:110405)	
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibration Due: 03/24/2012
Probe	Antennessa (SN:SN_1109_EP_100)	Calibration Due: 05/04/2011
DIPOLE 1900	Antennessa (DIPG35,SN 48/05)	Calibration Due: 02/09/2012
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibration Due: N/A
Liquid	Antennessa	Calibration Due: N/A
Measurement SW	OPEN SAR V2.1	Calibration Due: N/A

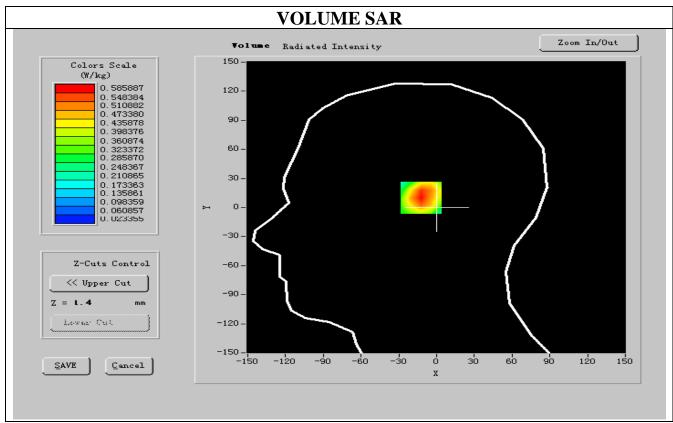
Frequency (MHz)	1909.800000
Relative permitivity (real part)	40.205999
Relative permitivity (imaginary part)	13.669900
Conductivity (S/m)	1.400224
Variation (%)	-1.500000
Ambient Temperature:	21 °C
Liquid Temperature:	20.4 °C
ConvF:	41.05, 42.35, 55.45
Crest factor:	8:1
SURFACE SA	AR



Report No: KS110407B04-SF

Date of Issue: April 11, 2011

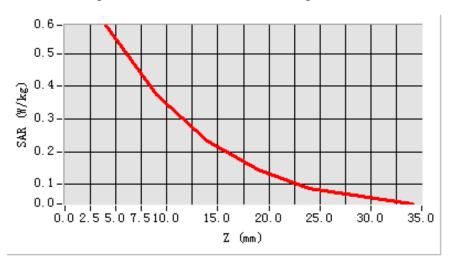




SAR 10g (W/Kg)	0.197397
SAR 1g (W/Kg)	0.316333



SAR, Z Axis Scan (X = -8, Y = 10)



Date of Issue: April 11, 2011

Date of measurement: April 11, 2011

A. Experimental conditions.

Phantom File	zinf15.txt, Adaptative 2 max
Phantom	Right head
Device Position	Cheek
Band	GSM1900
Channels	Low
Signal	GSM

B. Instrumentations.

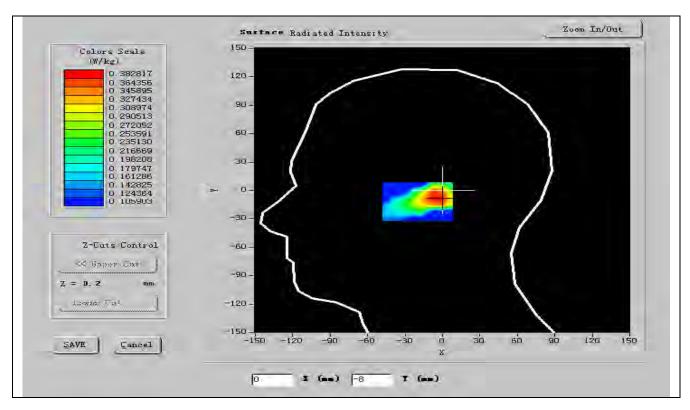
PC	HP (Pentium(R) V3.06GHz,	Calibration Due: N/A
	SN:375052-AA1)	
Wireless Communication	R&S (CMU200, SN:B23-03291)	Calibration Due: 05/25/2011
Test Set		
Network Analyzer	Agilent(E5071B, MY42301382)	Calibration Due: 03/24/2012
Voltmeter	Keithley (2000, SN:1015843)	Calibration Due: 05/25/2011
Signal Generator	Agilent (E8257C, SN:MY43321570)	Calibration Due: 03/24/2012
Amplifier	Mini-Circuits (ZHL-42,	Calibration Due: 07/29/2011
	SN:110405)	
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibration Due: 03/24/2012
Probe	Antennessa (SN:SN_1109_EP_100)	Calibration Due: 05/04/2011
DIPOLE 1900	Antennessa (DIPG35,SN 48/05)	Calibration Due: 02/09/2012
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibration Due: N/A
Liquid	Antennessa	Calibration Due: N/A
Measurement SW	OPEN SAR V2.1	Calibration Due: N/A

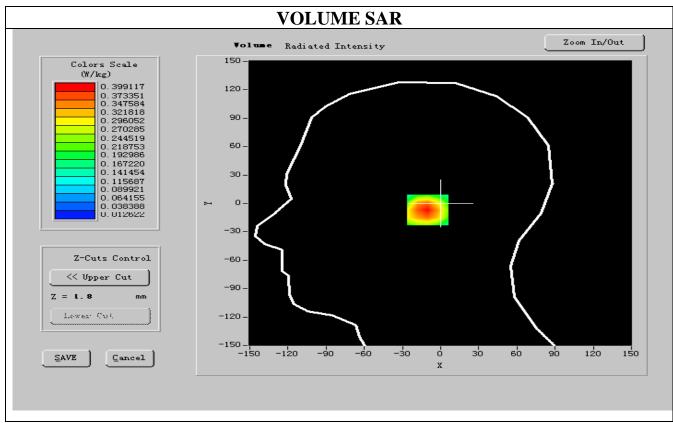
Frequency (MHz)	1850.200000
Relative permitivity (real part)	40.313000
Relative permitivity (imaginary part)	13.584900
Conductivity (S/m)	1.416528
Variation (%)	0.400000
Ambient Temperature:	21 °C
Liquid Temperature:	20.4 °C
ConvF:	41.05, 42.35, 55.45
Crest factor:	8:1
SURFACE SA	AR

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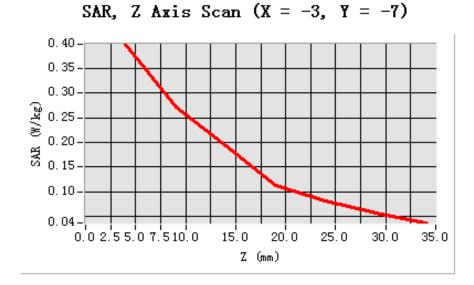
Date of Issue: April 11, 2011





SAR 10g (W/Kg)	0.410397
SAR 1g (W/Kg)	0.558878





Date of Issue: April 11, 2011

Date of measurement: April 11, 2011

Zoom Scan: 5 x 5 x 7 dx=5mm dy=5mm dz=5mm Z Axis Scan: 1 x 1 x 21 dx=20mm dy=20mm dz=5mm

A. Experimental conditions.

Phantom File	zinf15.txt, Adaptative 2 max
Phantom	Right head
Device Position	Cheek
Band	GSM1900
Channels	Middle
Signal	GSM

B. Instrumentations.

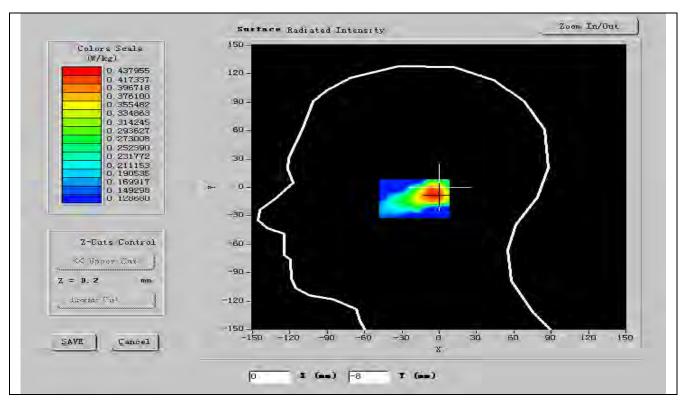
PC	HP (Pentium(R) V3.06GHz,	Calibration Due: N/A
	SN:375052-AA1)	
Wireless Communication	R&S (CMU200, SN:B23-03291)	Calibration Due: 05/25/2011
Test Set		
Network Analyzer	Agilent(E5071B, MY42301382)	Calibration Due: 03/24/2012
Voltmeter	Keithley (2000, SN:1015843)	Calibration Due: 05/25/2011
Signal Generator	Agilent (E8257C, SN:MY43321570)	Calibration Due: 03/24/2012
Amplifier	Mini-Circuits (ZHL-42,	Calibration Due: 07/29/2011
	SN:110405)	
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibration Due: 03/24/2012
Probe	Antennessa (SN:SN_1109_EP_100)	Calibration Due: 05/04/2011
DIPOLE 1900	Antennessa (DIPG35,SN 48/05)	Calibration Due: 02/09/2012
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibration Due: N/A
Liquid	Antennessa	Calibration Due: N/A
Measurement SW	OPEN SAR V2.1	Calibration Due: N/A

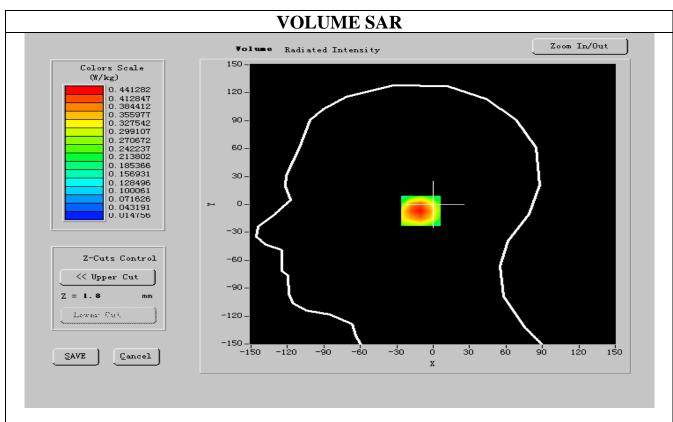
Frequency (MHz)	1880.000000
Relative permitivity (real part)	40.193001
Relative permitivity (imaginary part)	13.813800
Conductivity (S/m)	1.412324
Variation (%)	1.300000
Ambient Temperature:	21 °C
Liquid Temperature:	20.4 °C
ConvF:	41.05, 42.35, 55.45
Crest factor:	8:1
SURFACE SA	AR



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Date of Issue: April 11, 2011

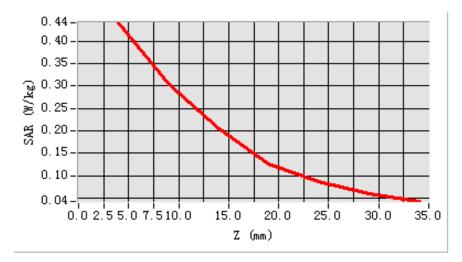




1:20:11:12:01:12:12:12:12:12:12:12:12:12:12:12:12:12		
SAR 10g (W/Kg)	0.269684	
SAR 1g (W/Kg)	0.371370	



SAR, Z Axis Scan (X = -3, Y = -7)



Date of Issue: April 11, 2011

Date of measurement: April 11, 2011

Zoom Scan: 5 x 5 x 7 dx=5mm dy=5mm dz=5mm Z Axis Scan: 1 x 1 x 21 dx=20mm dy=20mm dz=5mm

A. Experimental conditions.

Phantom File	zinf15.txt, Adaptative 2 max
Phantom	Right head
Device Position	Cheek
Band	GSM1900
Channels	High
Signal	GSM

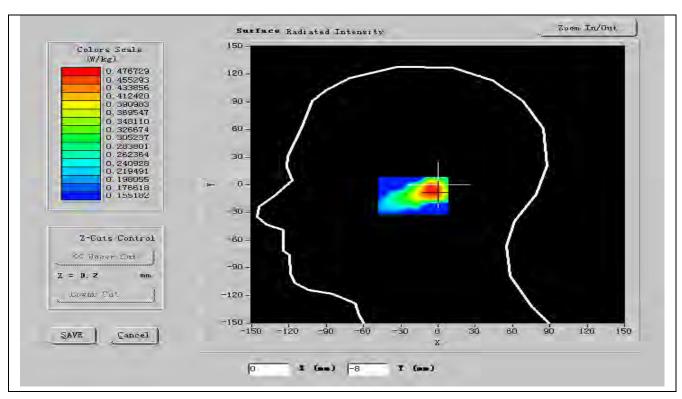
B. Instrumentations.

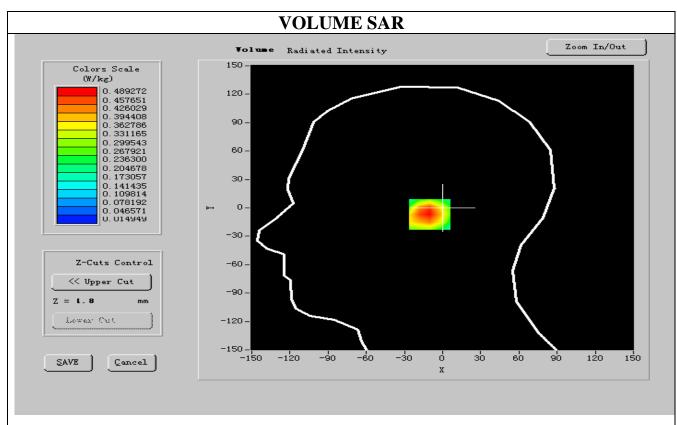
PC	HP (Pentium(R) V3.06GHz,	Calibration Due: N/A
	SN:375052-AA1)	
Wireless Communication	R&S (CMU200, SN:B23-03291)	Calibration Due: 05/25/2011
Test Set		
Network Analyzer	Agilent(E5071B, MY42301382)	Calibration Due: 03/24/2012
Voltmeter	Keithley (2000, SN:1015843)	Calibration Due: 05/25/2011
Signal Generator	Agilent (E8257C, SN:MY43321570)	Calibration Due: 03/24/2012
Amplifier	Mini-Circuits (ZHL-42,	Calibration Due: 07/29/2011
	SN:110405)	
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibration Due: 03/24/2012
Probe	Antennessa (SN:SN_1109_EP_100)	Calibration Due: 05/04/2011
DIPOLE 1900	Antennessa (DIPG35,SN 48/05)	Calibration Due: 02/09/2012
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibration Due: N/A
Liquid	Antennessa	Calibration Due: N/A
Measurement SW	OPEN SAR V2.1	Calibration Due: N/A

Frequency (MHz)	1909.800000
Relative permitivity (real part)	40.285999
Relative permitivity (imaginary part)	13.669900
Conductivity (S/m)	1.410242
Variation (%)	0.400000
Ambient Temperature:	21 °C
Liquid Temperature:	20.4 °C
ConvF:	41.05, 42.35, 55.45
Crest factor:	8:1
SURFACE SA	AR

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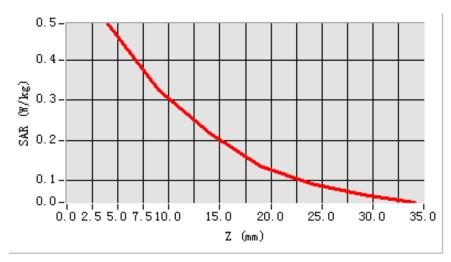




SAR 10g (W/Kg)	0.340376
SAR 1g (W/Kg)	0.500679



SAR, Z Axis Scan (X = -3, Y = -7)



Date of Issue: April 11, 2011

Date of measurement: April 11, 2011

Zoom Scan: 5 x 5 x 7 dx=5mm dy=5mm dz=5mm Z Axis Scan: 1 x 1 x 21 dx=20mm dy=20mm dz=5mm

A. Experimental conditions.

Phantom File	zinf15.txt, Adaptative 2 max
Phantom	Right head
Device Position	Tilt
Band	GSM1900
Channels	Low
Signal	GSM

B. Instrumentations.

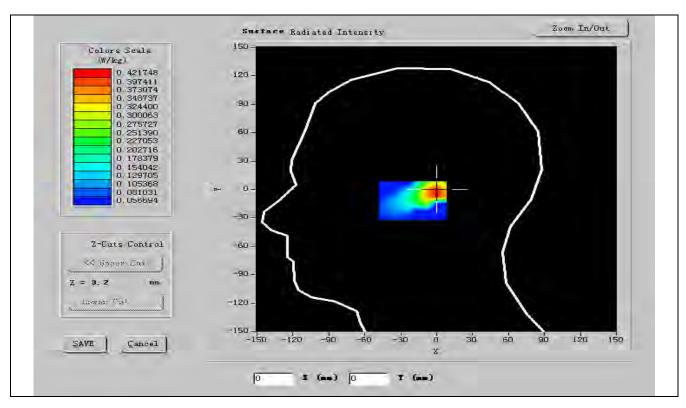
PC	HP (Pentium(R) V3.06GHz,	Calibration Due: N/A
	SN:375052-AA1)	
Wireless Communication	R&S (CMU200, SN:B23-03291)	Calibration Due: 05/25/2011
Test Set		
Network Analyzer	Agilent(E5071B, MY42301382)	Calibration Due: 03/24/2012
Voltmeter	Keithley (2000, SN:1015843)	Calibration Due: 05/25/2011
Signal Generator	Agilent (E8257C, SN:MY43321570)	Calibration Due: 03/24/2012
Amplifier	Mini-Circuits (ZHL-42,	Calibration Due: 07/29/2011
	SN:110405)	
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibration Due: 03/24/2012
Probe	Antennessa (SN:SN_1109_EP_100)	Calibration Due: 05/04/2011
DIPOLE 1900	Antennessa (DIPG35,SN 48/05)	Calibration Due: 02/09/2012
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibration Due: N/A
Liquid	Antennessa	Calibration Due: N/A
Measurement SW	OPEN SAR V2.1	Calibration Due: N/A

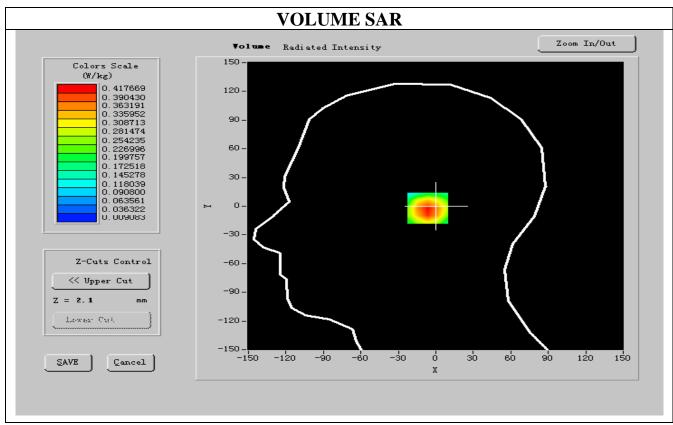
Frequency (MHz)	1850.200000
Relative permitivity (real part)	40.313134
Relative permitivity (imaginary part)	13.584900
Conductivity (S/m)	1.416243
Variation (%)	-0.700000
Ambient Temperature:	21 °C
Liquid Temperature:	20.4 °C
ConvF:	41.05, 42.35, 55.45
Crest factor:	8:1
SURFACE SA	AR

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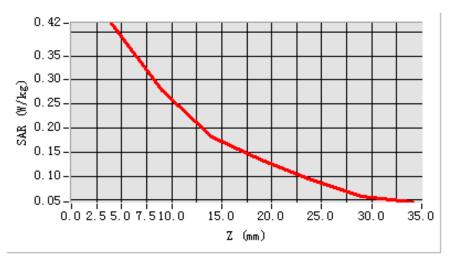




	,
SAR 10g (W/Kg)	0.333816
SAR 1g (W/Kg)	0.532324



SAR, Z Axis Scan (X = 0, Y = -2)



Date of Issue: April 11, 2011

Date of measurement: April 11, 2011

Zoom Scan: 5 x 5 x 7 dx=5mm dy=5mm dz=5mm Z Axis Scan: 1 x 1 x 21 dx=20mm dy=20mm dz=5mm

A. Experimental conditions.

Phantom File	zinf15.txt, Adaptative 2 max
Phantom	Right head
Device Position	Tilt
Band	GSM1900
Channels	Middle
Signal	GSM

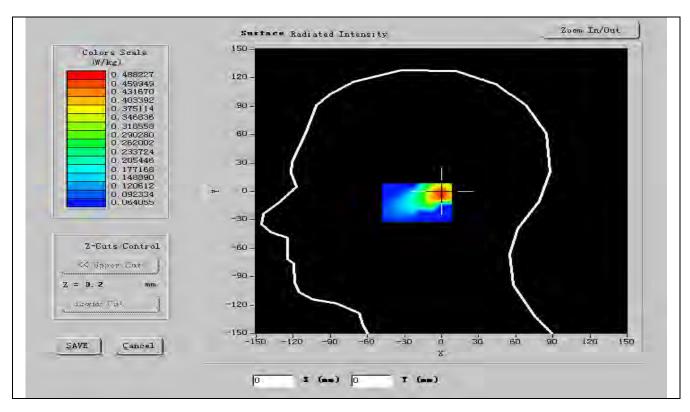
B. Instrumentations.

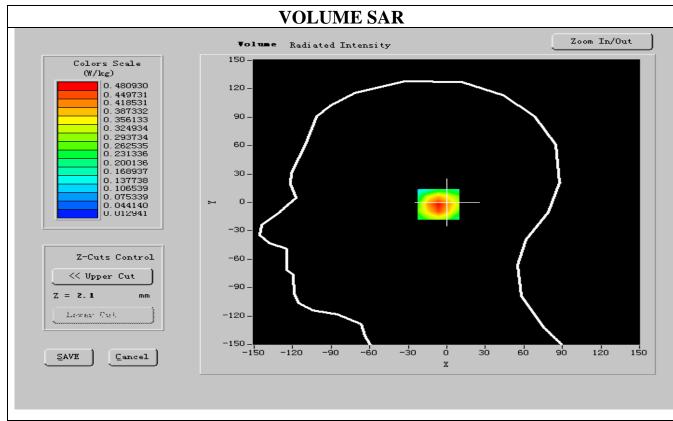
PC	HP (Pentium(R) V3.06GHz,	Calibration Due: N/A
	SN:375052-AA1)	
Wireless Communication	R&S (CMU200, SN:B23-03291)	Calibration Due: 05/25/2011
Test Set		
Network Analyzer	Agilent(E5071B, MY42301382)	Calibration Due: 03/24/2012
Voltmeter	Keithley (2000, SN:1015843)	Calibration Due: 05/25/2011
Signal Generator	Agilent (E8257C, SN:MY43321570)	Calibration Due: 03/24/2012
Amplifier	Mini-Circuits (ZHL-42,	Calibration Due: 07/29/2011
	SN:110405)	
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibration Due: 03/24/2012
Probe	Antennessa (SN:SN_1109_EP_100)	Calibration Due: 05/04/2011
DIPOLE 1900	Antennessa (DIPG35,SN 48/05)	Calibration Due: 02/09/2012
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibration Due: N/A
Liquid	Antennessa	Calibration Due: N/A
Measurement SW	OPEN SAR V2.1	Calibration Due: N/A

Frequency (MHz)	1880.000000	
Relative permitivity (real part)	40.193001	
Relative permitivity (imaginary part)	13.813800	
Conductivity (S/m)	1.413245	
Variation (%)	-1.100000	
Ambient Temperature:	21 °C	
Liquid Temperature:	20.4 °C	
ConvF:	41.05, 42.35, 55.45	
Crest factor:	8:1	
SURFACE SAR		

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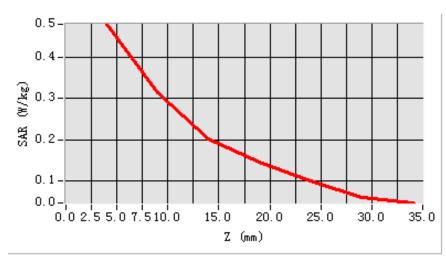




SAR 10g (W/Kg)	0.377439
SAR 1g (W/Kg)	0.512913



SAR, Z Axis Scan (X = 0, Y = -2)



Date of Issue: April 11, 2011

Date of measurement: April 11, 2011

A. Experimental conditions.

Phantom File	zinf15.txt, Adaptative 2 max
Phantom	Right head
Device Position	Tilt
Band	GSM1900
Channels	High
Signal	GSM

B. Instrumentations.

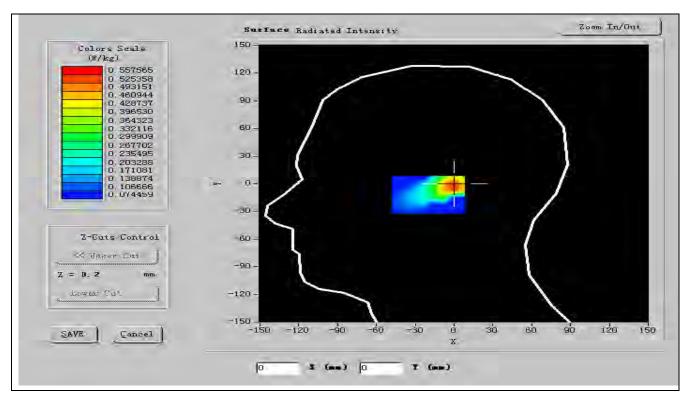
PC	HP (Pentium(R) V3.06GHz,	Calibration Due: N/A
	SN:375052-AA1)	
Wireless Communication	R&S (CMU200, SN:B23-03291)	Calibration Due: 05/25/2011
Test Set		
Network Analyzer	Agilent(E5071B, MY42301382)	Calibration Due: 03/24/2012
Voltmeter	Keithley (2000, SN:1015843)	Calibration Due: 05/25/2011
Signal Generator	Agilent (E8257C, SN:MY43321570)	Calibration Due: 03/24/2012
Amplifier	Mini-Circuits (ZHL-42,	Calibration Due: 07/29/2011
	SN:110405)	
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibration Due: 03/24/2012
Probe	Antennessa (SN:SN_1109_EP_100)	Calibration Due: 05/04/2011
DIPOLE 1900	Antennessa (DIPG35,SN 48/05)	Calibration Due: 02/09/2012
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibration Due: N/A
Liquid	Antennessa	Calibration Due: N/A
Measurement SW	OPEN SAR V2.1	Calibration Due: N/A

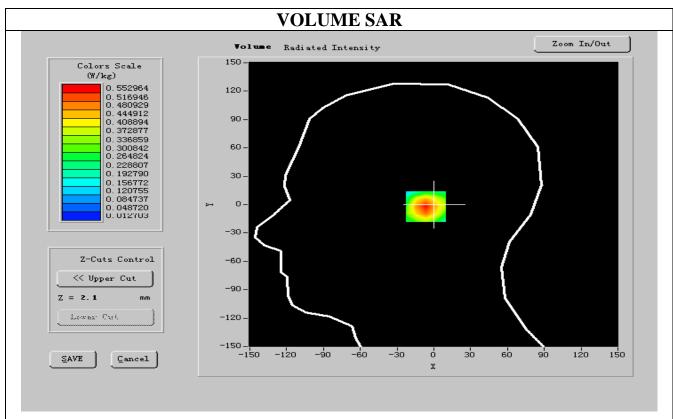
Frequency (MHz)	1909.800000
Relative permitivity (real part)	40.285999
Relative permitivity (imaginary part)	13.669900
Conductivity (S/m)	1.420225
Variation (%)	-1.130000
Ambient Temperature:	21 °C
Liquid Temperature:	20.4 °C
ConvF:	41.05, 42.35, 55.45
Crest factor:	8:1
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Date of Issue: April 11, 2011

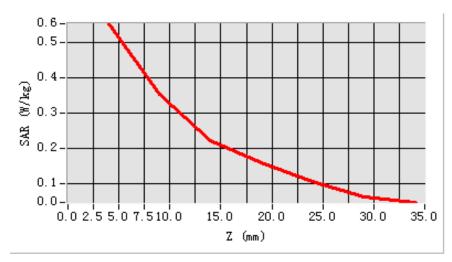




SAR 10g (W/Kg)	0.242510
SAR 1g (W/Kg)	0.431094



SAR, Z Axis Scan (X = 0, Y = -2)



Date of Issue: April 11, 2011

Date of measurement: April 11, 2011

Zoom Scan: 5 x 5 x 7 dx=5mm dy=5mm dz=5mm Z Axis Scan: 1 x 1 x 21 dx=20mm dy=20mm dz=5mm

A. Experimental conditions.

Phantom File	zinf15.txt, Adaptative 2 max
Phantom	Body
Device Position	FrontSide toward phantom
Band	GSM1900
Channels	Low
Signal	GSM

B. Instrumentations.

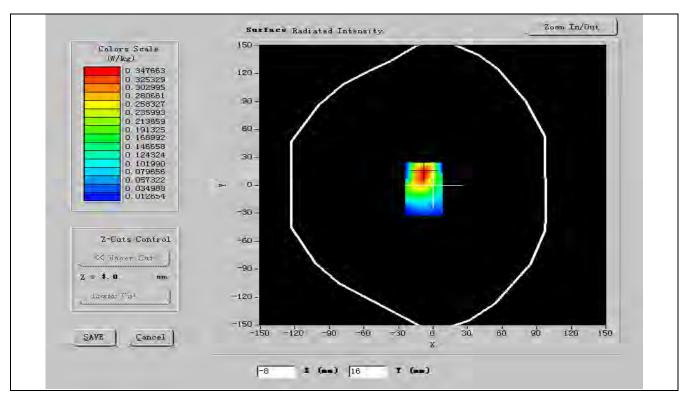
PC	HP (Pentium(R) V3.06GHz,	Calibration Due: N/A
	SN:375052-AA1)	
Wireless Communication	R&S (CMU200, SN:B23-03291)	Calibration Due: 05/25/2011
Test Set		
Network Analyzer	Agilent(E5071B, MY42301382)	Calibration Due: 03/24/2012
Voltmeter	Keithley (2000, SN:1015843)	Calibration Due: 05/25/2011
Signal Generator	Agilent (E8257C, SN:MY43321570)	Calibration Due: 03/24/2012
Amplifier	Mini-Circuits (ZHL-42,	Calibration Due: 07/29/2011
	SN:110405)	
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibration Due: 03/24/2012
Probe	Antennessa (SN:SN_1109_EP_100)	Calibration Due: 05/04/2011
DIPOLE 1900	Antennessa (DIPG35,SN 48/05)	Calibration Due: 02/09/2012
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibration Due: N/A
Liquid	Antennessa	Calibration Due: N/A
Measurement SW	OPEN SAR V2.1	Calibration Due: N/A

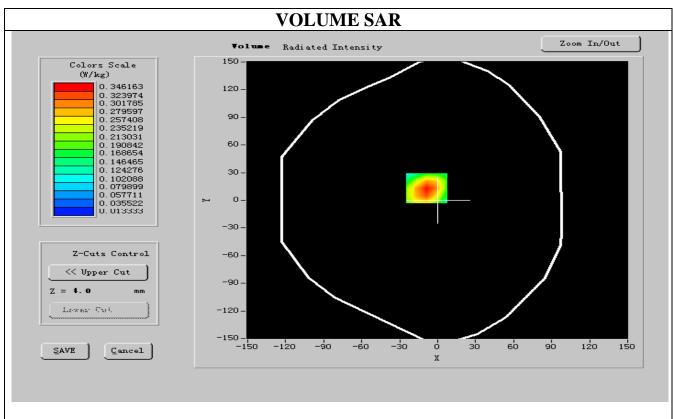
e. Still incusurement results	
Frequency (MHz)	1850.200000
Relative permitivity (real part)	52.313000
Relative permitivity (imaginary part)	13.584900
Conductivity (S/m)	1.416522
Variation (%)	-0.130000
Ambient Temperature:	21 °C
Liquid Temperature:	20.4 °C
ConvF:	40.42, 41.12, 54.75
Crest factor:	8:1
SURFACE SA	AR

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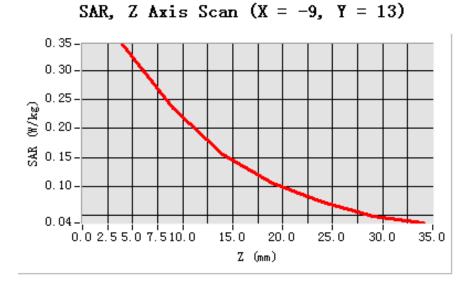
Date of Issue: April 11, 2011





SAR 10g (W/Kg)	0.186104
SAR 1g (W/Kg)	0.367083





Date of Issue: April 11, 2011

Date of measurement: April 11, 2011

Zoom Scan: 5 x 5 x 7 dx=5mm dy=5mm dz=5mm Z Axis Scan: 1 x 1 x 21 dx=20mm dy=20mm dz=5mm

A. Experimental conditions.

Phantom File	zinf15.txt, Adaptative 2 max
Phantom	Body
Device Position	FrontSide toward phantom
Band	GSM1900
Channels	Middle
Signal	GSM

B. Instrumentations.

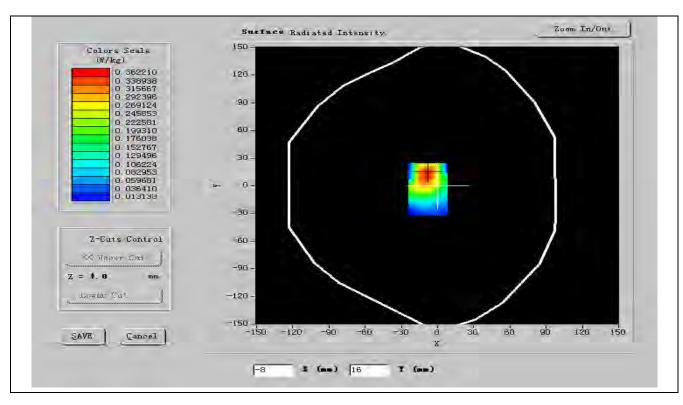
PC	HP (Pentium(R) V3.06GHz,	Calibration Due: N/A
	SN:375052-AA1)	
Wireless Communication	R&S (CMU200, SN:B23-03291)	Calibration Due: 05/25/2011
Test Set		
Network Analyzer	Agilent(E5071B, MY42301382)	Calibration Due: 03/24/2012
Voltmeter	Keithley (2000, SN:1015843)	Calibration Due: 05/25/2011
Signal Generator	Agilent (E8257C, SN:MY43321570)	Calibration Due: 03/24/2012
Amplifier	Mini-Circuits (ZHL-42,	Calibration Due: 07/29/2011
	SN:110405)	
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibration Due: 03/24/2012
Probe	Antennessa (SN:SN_1109_EP_100)	Calibration Due: 05/04/2011
DIPOLE 1900	Antennessa (DIPG35,SN 48/05)	Calibration Due: 02/09/2012
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibration Due: N/A
Liquid	Antennessa	Calibration Due: N/A
Measurement SW	OPEN SAR V2.1	Calibration Due: N/A

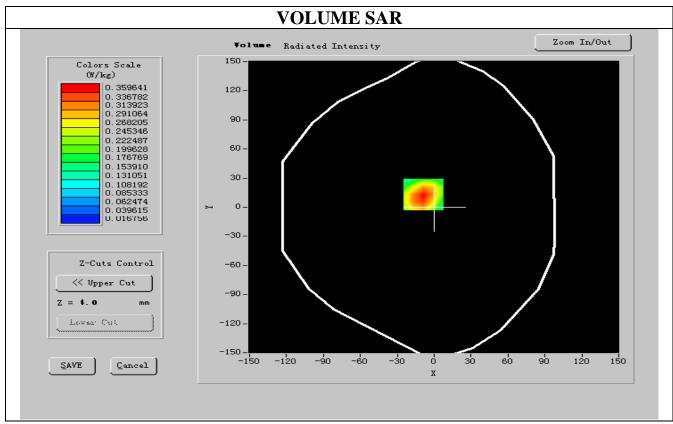
Frequency (MHz)	1880.000000
Relative permitivity (real part)	52.893001
Relative permitivity (imaginary part)	13.813800
Conductivity (S/m)	1.512775
Variation (%)	-0.700000
Ambient Temperature:	21 °C
Liquid Temperature:	20.4 °C
ConvF:	40.42, 41.12, 54.75
Crest factor:	8:1
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Date of Issue: April 11, 2011



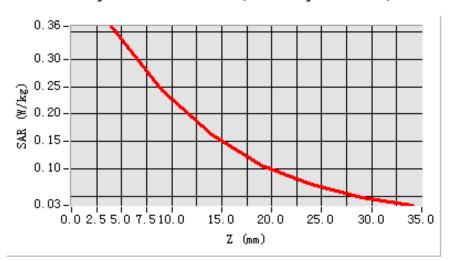


SAR 10g (W/Kg)	0.252802
SAR 1g (W/Kg)	0.370165



Date of Issue: April 11, 2011

SAR, Z Axis Scan (X = -9, Y = 13)



Date of Issue: April 11, 2011

Date of measurement: April 11, 2011

A. Experimental conditions.

Phantom File	zinf15.txt, Adaptative 2 max
Phantom	Body
Device Position	FrontSide toward phantom
Band	GSM1900
Channels	High
Signal	GSM

B. Instrumentations.

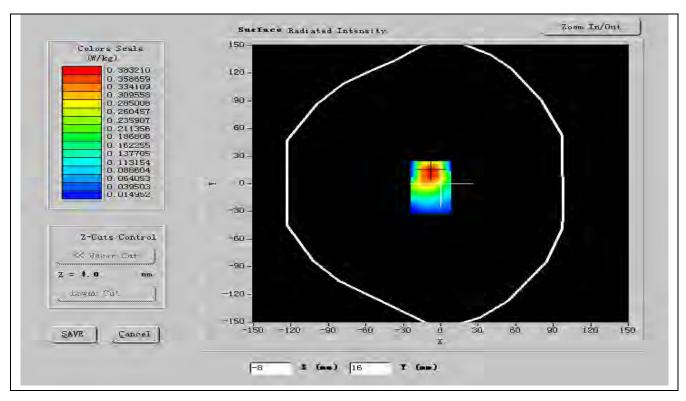
PC	HP (Pentium(R) V3.06GHz,	Calibration Due: N/A
	SN:375052-AA1)	
Wireless Communication Test Set	R&S (CMU200, SN:B23-03291)	Calibration Due: 05/25/2011
Network Analyzer	Agilent(E5071B, MY42301382)	Calibration Due: 03/24/2012
Voltmeter	Keithley (2000, SN:1015843)	Calibration Due: 05/25/2011
Signal Generator	Agilent (E8257C, SN:MY43321570)	Calibration Due: 03/24/2012
Amplifier	Mini-Circuits (ZHL-42,	Calibration Due: 07/29/2011
	SN:110405)	
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibration Due: 03/24/2012
Probe	Antennessa (SN:SN_1109_EP_100)	Calibration Due: 05/04/2011
DIPOLE 1900	Antennessa (DIPG35,SN 48/05)	Calibration Due: 02/09/2012
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibration Due: N/A
Liquid	Antennessa	Calibration Due: N/A
Measurement SW	OPEN SAR V2.1	Calibration Due: N/A

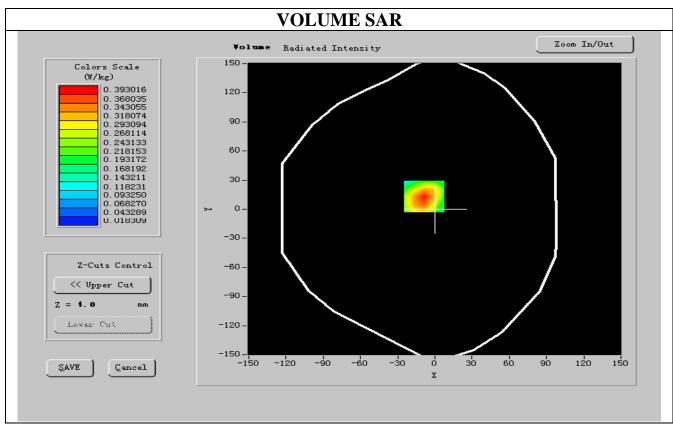
Frequency (MHz)	1909.800000
Relative permitivity (real part)	52.885999
Relative permitivity (imaginary part)	13.669900
Conductivity (S/m)	1.510225
Variation (%)	-0.600000
Ambient Temperature:	21 °C
Liquid Temperature:	20.4 °C
ConvF:	40.42, 41.12, 54.75
Crest factor:	8:1
SURFACE SA	AR

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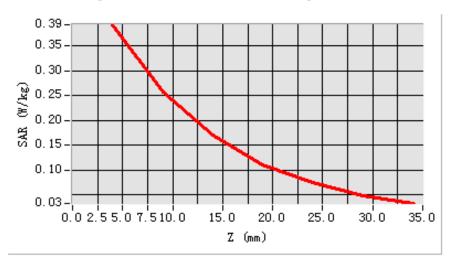




SAR 10g (W/Kg)	0.230637
SAR 1g (W/Kg)	0.391896



SAR, Z Axis Scan (X = -9, Y = 13)



Date of Issue: April 11, 2011

Date of measurement: April 11, 2011

Zoom Scan: 5 x 5 x 7 dx=5mm dy=5mm dz=5mm Z Axis Scan: 1 x 1 x 21 dx=20mm dy=20mm dz=5mm

A. Experimental conditions.

Phantom File	zinf15.txt, Adaptative 2 max
Phantom	Body
Device Position	BackSide toward phantom
Band	GSM1900
Channels	Low
Signal	GSM

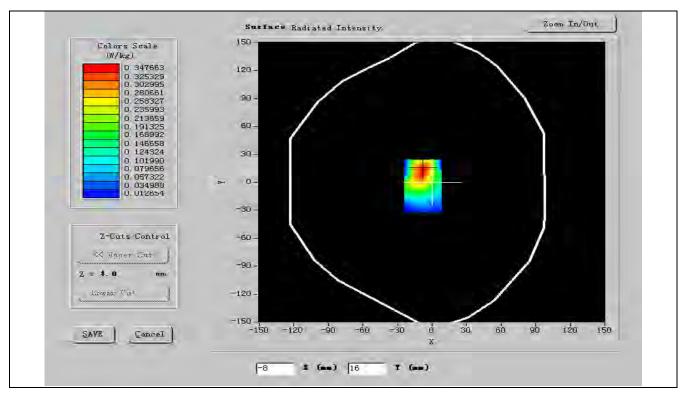
B. Instrumentations.

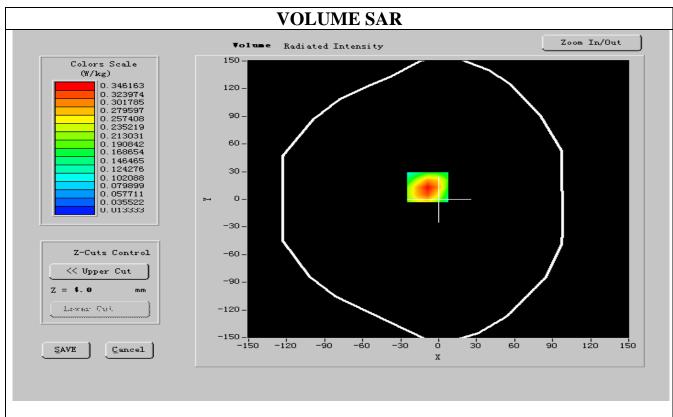
PC	HP (Pentium(R) V3.06GHz,	Calibration Due: N/A
	SN:375052-AA1)	
Wireless Communication	R&S (CMU200, SN:B23-03291)	Calibration Due: 05/25/2011
Test Set		
Network Analyzer	Agilent(E5071B, MY42301382)	Calibration Due: 03/24/2012
Voltmeter	Keithley (2000, SN:1015843)	Calibration Due: 05/25/2011
Signal Generator	Agilent (E8257C, SN:MY43321570)	Calibration Due: 03/24/2012
Amplifier	Mini-Circuits (ZHL-42,	Calibration Due: 07/29/2011
	SN:110405)	
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibration Due: 03/24/2012
Probe	Antennessa (SN:SN_1109_EP_100)	Calibration Due: 05/04/2011
DIPOLE 1900	Antennessa (DIPG35,SN 48/05)	Calibration Due: 02/09/2012
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibration Due: N/A
Liquid	Antennessa	Calibration Due: N/A
Measurement SW	OPEN SAR V2.1	Calibration Due: N/A

Frequency (MHz)	1850.200000
Relative permitivity (real part)	52.313000
Relative permitivity (imaginary part)	13.584900
Conductivity (S/m)	1.416522
Variation (%)	-0.130000
Ambient Temperature:	21 °C
Liquid Temperature:	20.4 °C
ConvF:	40.42, 41.12, 54.75
Crest factor:	8:1
SURFACE SA	AR

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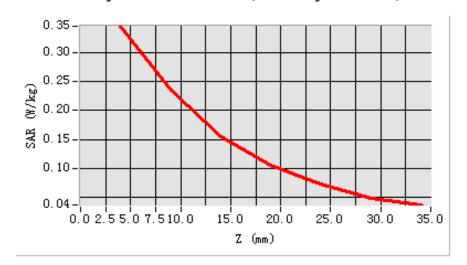




SAR 10g (W/Kg)	0.149777
SAR 1g (W/Kg)	0.338960



SAR, Z Axis Scan (X = -9, Y = 13)



Date of Issue: April 11, 2011

Date of measurement: April 11, 2011

A. Experimental conditions.

Phantom File	zinf15.txt, Adaptative 2 max
Phantom	Body
Device Position	BackSide toward phantom
Band	GSM1900
Channels	Middle
Signal	GSM

B. Instrumentations.

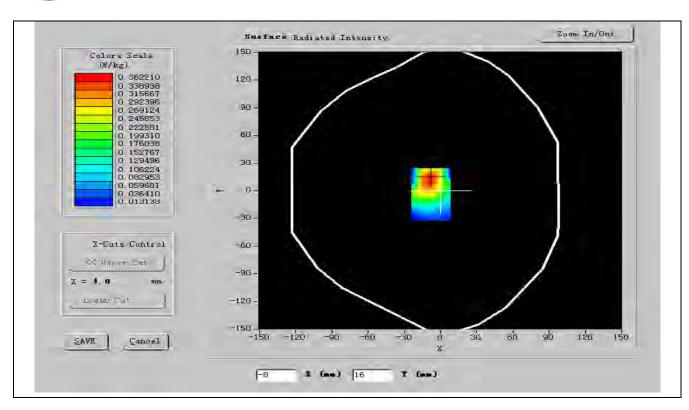
PC	HP (Pentium(R) V3.06GHz,	Calibration Due: N/A
	SN:375052-AA1)	
Wireless Communication	R&S (CMU200, SN:B23-03291)	Calibration Due: 05/25/2011
Test Set		
Network Analyzer	Agilent(E5071B, MY42301382)	Calibration Due: 03/24/2012
Voltmeter	Keithley (2000, SN:1015843)	Calibration Due: 05/25/2011
Signal Generator	Agilent (E8257C, SN:MY43321570)	Calibration Due: 03/24/2012
Amplifier	Mini-Circuits (ZHL-42,	Calibration Due: 07/29/2011
	SN:110405)	
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibration Due: 03/24/2012
Probe	Antennessa (SN:SN_1109_EP_100)	Calibration Due: 05/04/2011
DIPOLE 1900	Antennessa (DIPG35,SN 48/05)	Calibration Due: 02/09/2012
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibration Due: N/A
Liquid	Antennessa	Calibration Due: N/A
Measurement SW	OPEN SAR V2.1	Calibration Due: N/A

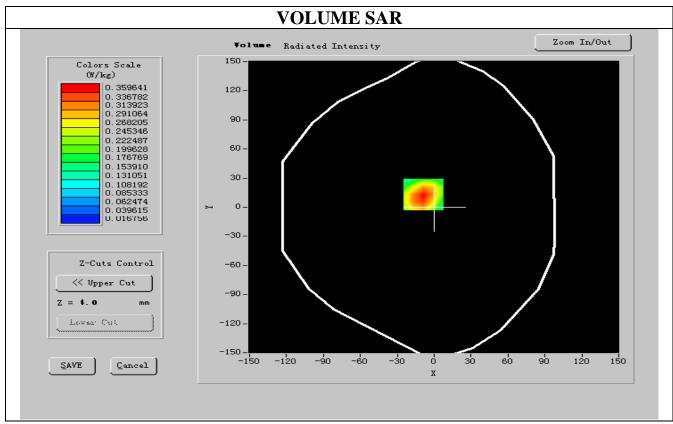
Frequency (MHz)	1880.000000
Relative permitivity (real part)	52.893001
Relative permitivity (imaginary part)	13.813800
Conductivity (S/m)	1.512775
Variation (%)	-0.700000
Ambient Temperature:	21 °C
Liquid Temperature:	20.4 °C
ConvF:	40.42, 41.12, 54.75
Crest factor:	8:1
SURFACE SA	AR

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Report No: KS110407B04-SF

Date of Issue: April 11, 2011

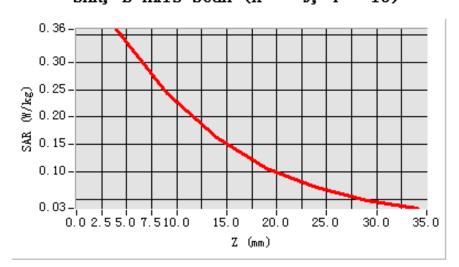




SAR 10g (W/Kg)	0.173320
SAR 1g (W/Kg)	0.343642



SAR, Z Axis Scan (X = -9, Y = 13)



Date of Issue: April 11, 2011

Date of measurement: April 11, 2011

A. Experimental conditions.

Phantom File	zinf15.txt, Adaptative 2 max
Phantom	Body
Device Position	BackSide toward phantom
Band	GSM1900
Channels	High
Signal	GSM

B. Instrumentations.

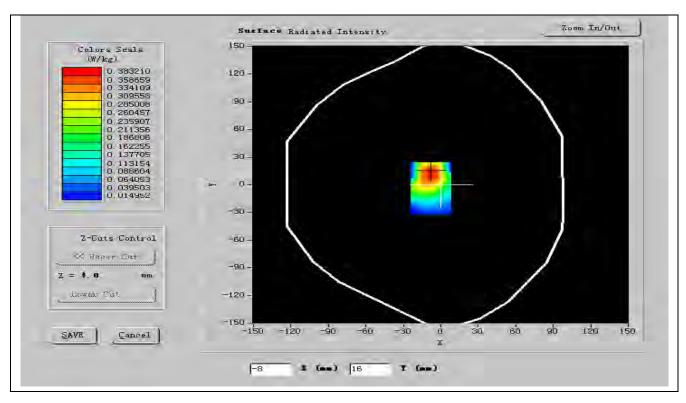
PC	HP (Pentium(R) V3.06GHz,	Calibration Due: N/A
	SN:375052-AA1)	
Wireless Communication Test Set	R&S (CMU200, SN:B23-03291)	Calibration Due: 05/25/2011
Network Analyzer	Agilent(E5071B, MY42301382)	Calibration Due: 03/24/2012
Voltmeter	Keithley (2000, SN:1015843)	Calibration Due: 05/25/2011
Signal Generator	Agilent (E8257C, SN:MY43321570)	Calibration Due: 03/24/2012
Amplifier	Mini-Circuits (ZHL-42,	Calibration Due: 07/29/2011
	SN:110405)	
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibration Due: 03/24/2012
Probe	Antennessa (SN:SN_1109_EP_100)	Calibration Due: 05/04/2011
DIPOLE 1900	Antennessa (DIPG35,SN 48/05)	Calibration Due: 02/09/2012
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibration Due: N/A
Liquid	Antennessa	Calibration Due: N/A
Measurement SW	OPEN SAR V2.1	Calibration Due: N/A

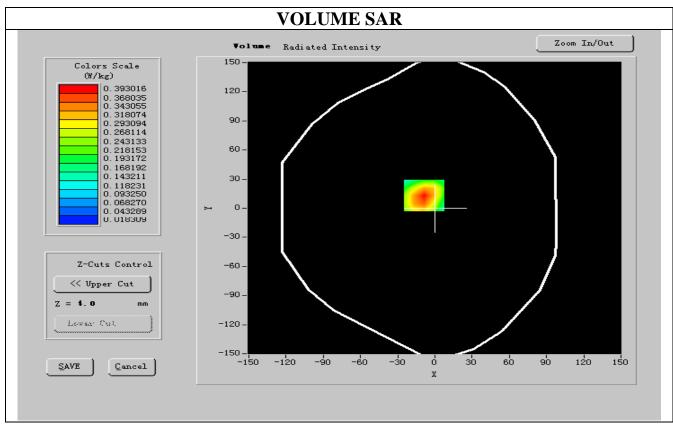
Frequency (MHz)	1909.800000
Relative permitivity (real part)	52.885999
Relative permitivity (imaginary part)	13.669900
Conductivity (S/m)	1.510225
Variation (%)	-0.600000
Ambient Temperature:	21 °C
Liquid Temperature:	20.4 °C
ConvF:	40.42, 41.12, 54.75
Crest factor:	8:1
SURFACE SA	AR

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Date of Issue: April 11, 2011



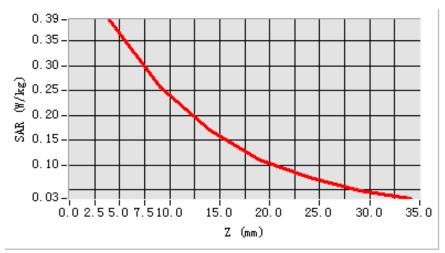


SAR 10g (W/Kg)	0.250306
SAR 1g (W/Kg)	0.351227



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SAR, Z Axis Scan (X = -9, Y = 13)



Date of Issue: April 11, 2011

Date of measurement: April 11, 2011

Zoom Scan: 5 x 5 x 7 dx=5mm dy=5mm dz=5mm Z Axis Scan: 1 x 1 x 21 dx=20mm dy=20mm dz=5mm

A. Experimental conditions.

Phantom File	zinf15.txt, Adaptative 2 max
Phantom	Body
Device Position	FrontSide toward phantom
Band	GPRS1900
Channels	Low
Signal	GPRS

B. Instrumentations.

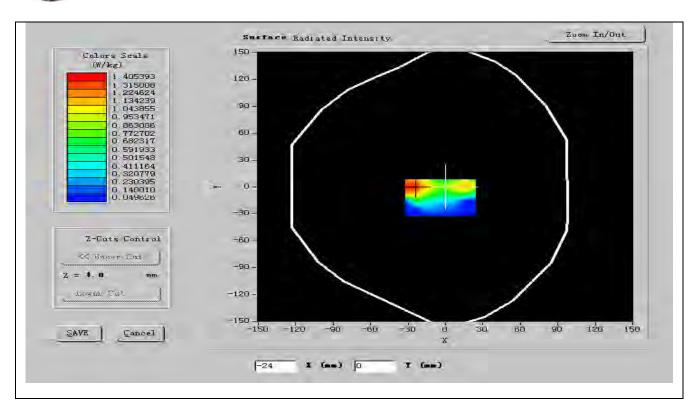
PC	HP (Pentium(R) V3.06GHz,	Calibration Due: N/A
	SN:375052-AA1)	
Wireless Communication	R&S (CMU200, SN:B23-03291)	Calibration Due: 05/25/2011
Test Set		
Network Analyzer	Agilent(E5071B, MY42301382)	Calibration Due: 03/24/2012
Voltmeter	Keithley (2000, SN:1015843)	Calibration Due: 05/25/2011
Signal Generator	Agilent (E8257C, SN:MY43321570)	Calibration Due: 03/24/2012
Amplifier	Mini-Circuits (ZHL-42,	Calibration Due: 07/29/2011
	SN:110405)	
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibration Due: 03/24/2012
Probe	Antennessa (SN:SN_1109_EP_100)	Calibration Due: 05/04/2011
DIPOLE 1900	Antennessa (DIPG35,SN 48/05)	Calibration Due: 02/09/2012
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibration Due: N/A
Liquid	Antennessa	Calibration Due: N/A
Measurement SW	OPEN SAR V2.1	Calibration Due: N/A

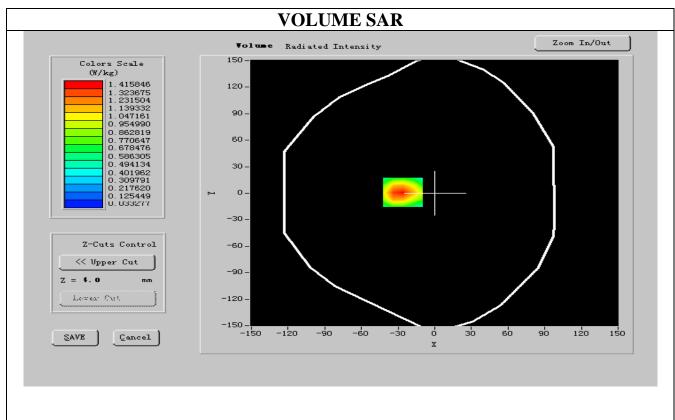
Frequency (MHz)	1850.200000	
Relative permitivity (real part)	52.347400	
Relative permitivity (imaginary part)	14.450693	
Conductivity (S/m)	1.533698	
Variation (%)	-0.400000	
Ambient Temperature:	21 °C	
Liquid Temperature:	20.4 °C	
ConvF:	40.42, 41.12, 54.75	
Crest factor:	2:1	
SURFACE SAR		

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Report No: KS110407B04-SF

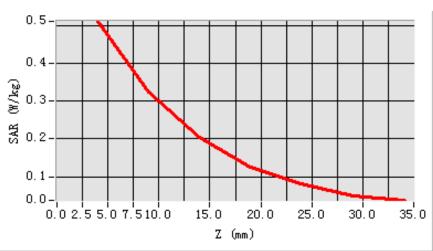
Date of Issue: April 11, 2011





SAR 10g (W/Kg)	0.102899
SAR 1g (W/Kg)	0.283723

SAR, Z Axis Scan (X = -10, Y = 12)



Date of Issue: April 11, 2011

Date of measurement: April 11, 2011

Zoom Scan: 5 x 5 x 7 dx=5mm dy=5mm dz=5mm Z Axis Scan: 1 x 1 x 21 dx=20mm dy=20mm dz=5mm

A. Experimental conditions.

Phantom File	zinf15.txt, Adaptative 2 max	
Phantom	Body	
Device Position	FrontSide toward phantom	
Band	GPRS1900	
Channels	Middle	
Signal	GPRS	

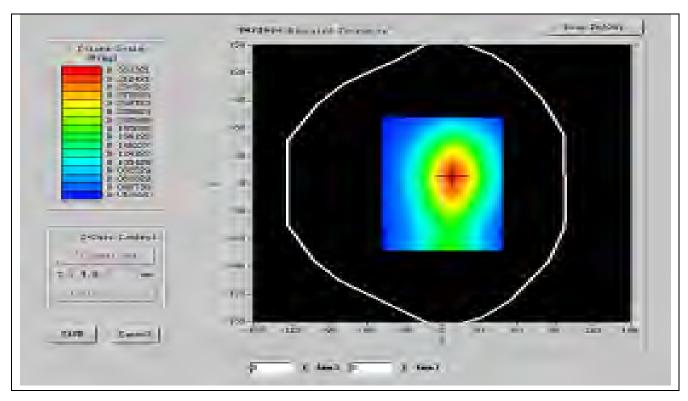
B. Instrumentations.

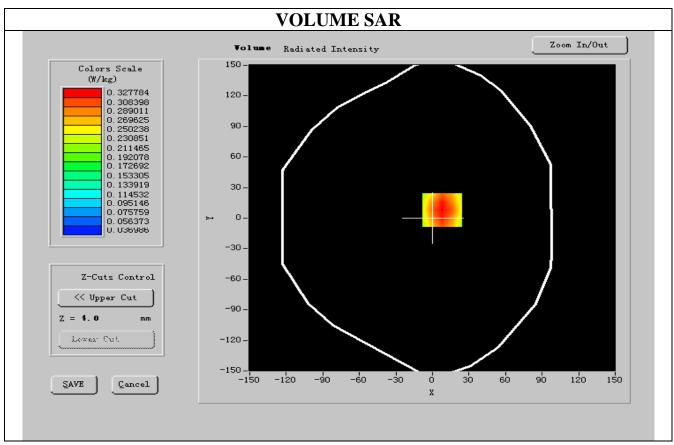
PC	HP (Pentium(R) V3.06GHz,	Calibration Due: N/A
	SN:375052-AA1)	
Wireless Communication	R&S (CMU200, SN:B23-03291)	Calibration Due: 05/25/2011
Test Set		
Network Analyzer	Agilent(E5071B, MY42301382)	Calibration Due: 03/24/2012
Voltmeter	Keithley (2000, SN:1015843)	Calibration Due: 05/25/2011
Signal Generator	Agilent (E8257C, SN:MY43321570)	Calibration Due: 03/24/2012
Amplifier	Mini-Circuits (ZHL-42,	Calibration Due: 07/29/2011
	SN:110405)	
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibration Due: 03/24/2012
Probe	Antennessa (SN:SN_1109_EP_100)	Calibration Due: 05/04/2011
DIPOLE 1900	Antennessa (DIPG35,SN 48/05)	Calibration Due: 02/09/2012
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibration Due: N/A
Liquid	Antennessa	Calibration Due: N/A
Measurement SW	OPEN SAR V2.1	Calibration Due: N/A

Frequency (MHz)	1880.000000
Relative permitivity (real part)	51.417028
Relative permitivity (imaginary part)	14.293556
Conductivity (S/m)	1.514286
Variation (%)	-1.010000
Ambient Temperature:	21 °C
Liquid Temperature:	20.4 °C
ConvF:	40.42, 41.12, 54.75
Crest factor:	2:1
SURFACE SA	AR



Date of Issue: April 11, 2011



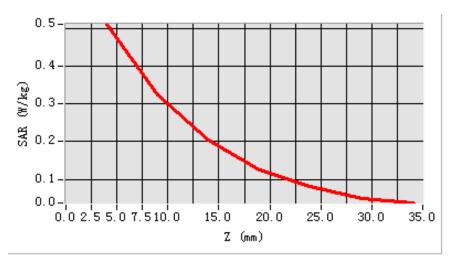




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SAR 1g (W/Kg)	0.360335

SAR, Z Axis Scan (X = -10, Y = 12)



Date of Issue: April 11, 2011

Date of measurement: April 11, 2011

A. Experimental conditions.

Phantom File	zinf15.txt, Adaptative 2 max
Phantom	Body
Device Position	FrontSide toward phantom
Band	GPRS1900
Channels	High
Signal	GPRS

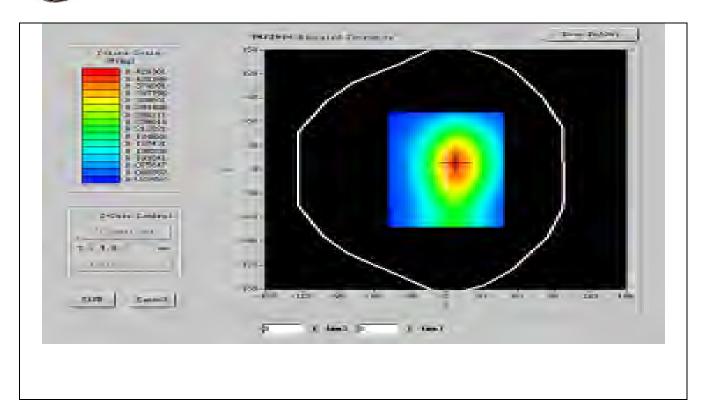
B. Instrumentations.

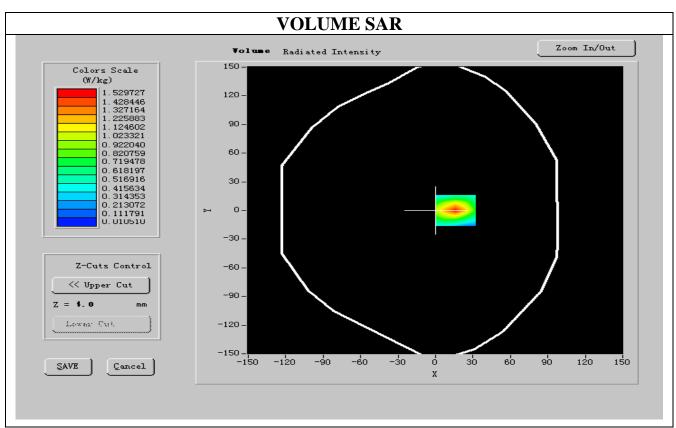
PC	HP (Pentium(R) V3.06GHz, SN:375052-AA1)	Calibration Due: N/A
Wireless Communication Test Set	R&S (CMU200, SN:B23-03291)	Calibration Due: 05/25/2011
Network Analyzer	Agilent(E5071B, MY42301382)	Calibration Due: 03/24/2012
Voltmeter	Keithley (2000, SN:1015843)	Calibration Due: 05/25/2011
Signal Generator	Agilent (E8257C, SN:MY43321570)	Calibration Due: 03/24/2012
Amplifier	Mini-Circuits (ZHL-42,	Calibration Due: 07/29/2011
	SN:110405)	
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibration Due: 03/24/2012
Probe	Antennessa (SN:SN_1109_EP_100)	Calibration Due: 05/04/2011
DIPOLE 1900	Antennessa (DIPG35,SN 48/05)	Calibration Due: 02/09/2012
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibration Due: N/A
Liquid	Antennessa	Calibration Due: N/A
Measurement SW	OPEN SAR V2.1	Calibration Due: N/A

Frequency (MHz)	1909.800000
Relative permitivity (real part)	51.813332
Relative permitivity (imaginary part)	14.319230
Conductivity (S/m)	1.513224
Variation (%)	-0.130000
Ambient Temperature:	21 °C
Liquid Temperature:	20.4 °C
ConvF:	40.42, 41.12, 54.75
Crest factor:	2:1
SURFACE SA	AR

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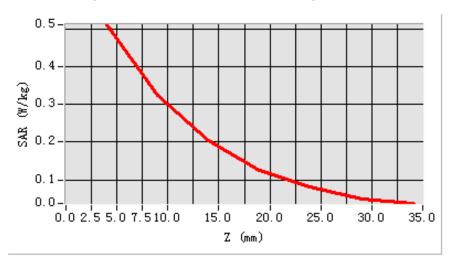




SAR 10g (W/Kg)	0.192754
SAR 1g (W/Kg)	0.378465



SAR, Z Axis Scan (X = -10, Y = 12)



Date of Issue: April 11, 2011

Date of measurement: April 11, 2011

A. Experimental conditions.

Phantom File	zinf15.txt, Adaptative 2 max	
Phantom	Body	
Device Position	BackSide toward phantom	
Band	GPRS1900	
Channels	Low	
Signal	GPRS	

B. Instrumentations.

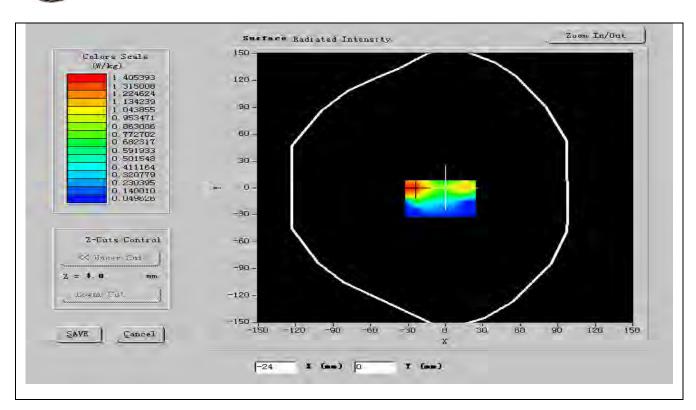
PC	HP (Pentium(R) V3.06GHz,	Calibration Due: N/A
	SN:375052-AA1)	
Wireless Communication	R&S (CMU200, SN:B23-03291)	Calibration Due: 05/25/2011
Test Set		
Network Analyzer	Agilent(E5071B, MY42301382)	Calibration Due: 03/24/2012
Voltmeter	Keithley (2000, SN:1015843)	Calibration Due: 05/25/2011
Signal Generator	Agilent (E8257C, SN:MY43321570)	Calibration Due: 03/24/2012
Amplifier	Mini-Circuits (ZHL-42,	Calibration Due: 07/29/2011
	SN:110405)	
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibration Due: 03/24/2012
Probe	Antennessa (SN:SN_1109_EP_100)	Calibration Due: 05/04/2011
DIPOLE 1900	Antennessa (DIPG35,SN 48/05)	Calibration Due: 02/09/2012
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibration Due: N/A
Liquid	Antennessa	Calibration Due: N/A
Measurement SW	OPEN SAR V2.1	Calibration Due: N/A

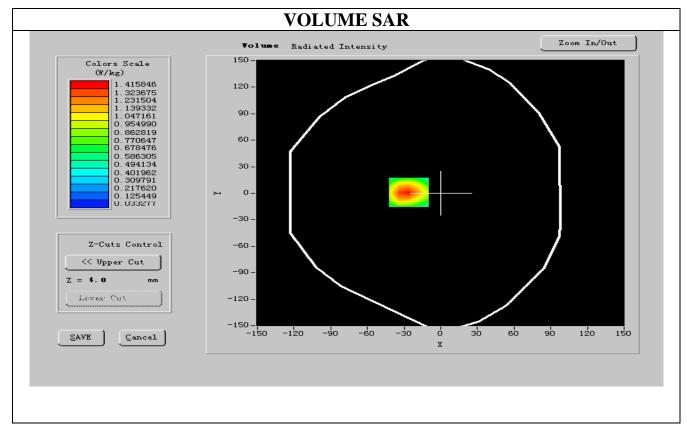
Frequency (MHz)	1850.200000
Relative permitivity (real part)	52.347400
Relative permitivity (imaginary part)	14.450693
Conductivity (S/m)	1.533698
Variation (%)	-0.400000
Ambient Temperature:	21 °C
Liquid Temperature:	20.4 °C
ConvF:	40.42, 41.12, 54.75
Crest factor:	2:1
SURFACE SA	AR

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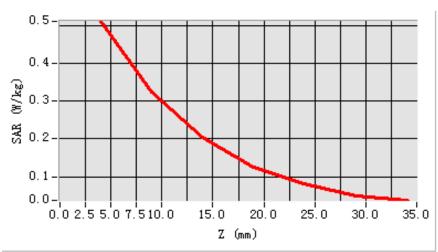


SAR 10g (W/Kg)	0.144114
SAR 1g (W/Kg)	0.277409



Date of Issue: April 11, 2011

SAR, Z Axis Scan (X = -10, Y = 12)



Date of Issue: April 11, 2011

Date of measurement: April 11, 2011

A. Experimental conditions.

Phantom File	zinf15.txt, Adaptative 2 max
Phantom	Body
Device Position	BackSide toward phantom
Band	GPRS1900
Channels	Middle
Signal	GPRS

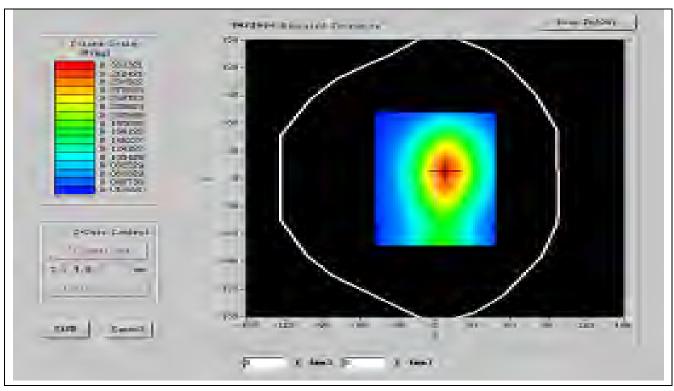
B. Instrumentations.

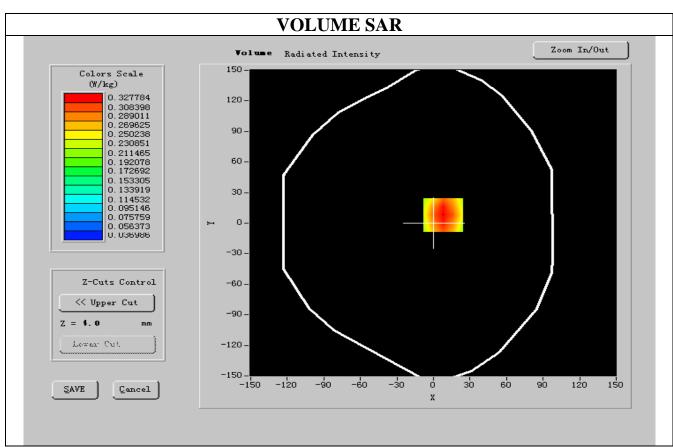
PC	HP (Pentium(R) V3.06GHz,	Calibration Due: N/A
	SN:375052-AA1)	
Wireless Communication	R&S (CMU200, SN:B23-03291)	Calibration Due: 05/25/2011
Test Set		
Network Analyzer	Agilent(E5071B, MY42301382)	Calibration Due: 03/24/2012
Voltmeter	Keithley (2000, SN:1015843)	Calibration Due: 05/25/2011
Signal Generator	Agilent (E8257C, SN:MY43321570)	Calibration Due: 03/24/2012
Amplifier	Mini-Circuits (ZHL-42,	Calibration Due: 07/29/2011
	SN:110405)	
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibration Due: 03/24/2012
Probe	Antennessa (SN:SN_1109_EP_100)	Calibration Due: 05/04/2011
DIPOLE 1900	Antennessa (DIPG35,SN 48/05)	Calibration Due: 02/09/2012
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibration Due: N/A
Liquid	Antennessa	Calibration Due: N/A
Measurement SW	OPEN SAR V2.1	Calibration Due: N/A

Frequency (MHz)	1880.000000
Relative permitivity (real part)	51.417028
Relative permitivity (imaginary part)	14.293556
Conductivity (S/m)	1.514286
Variation (%)	-1.010000
Ambient Temperature:	21 °C
Liquid Temperature:	20.4 °C
ConvF:	40.42, 41.12, 54.75
Crest factor:	2:1
SURFACE SA	AR

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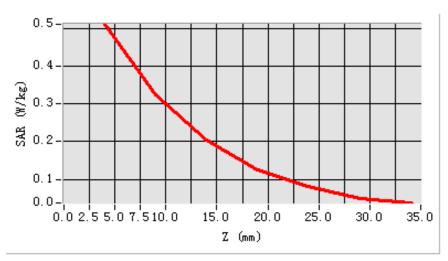


SAR 10g (W/Kg)	0.178016
SAR 1g (W/Kg)	0.351096



Date of Issue: April 11, 2011

SAR, Z Axis Scan (X = -10, Y = 12)



Date of Issue: April 11, 2011

Date of measurement: April 11, 2011

Zoom Scan: 5 x 5 x 7 dx=5mm dy=5mm dz=5mm Z Axis Scan: 1 x 1 x 21 dx=20mm dy=20mm dz=5mm

A. Experimental conditions.

Phantom File	zinf15.txt, Adaptative 2 max
Phantom	Body
Device Position	BackSide toward phantom
Band	GPRS1900
Channels	High
Signal	GPRS

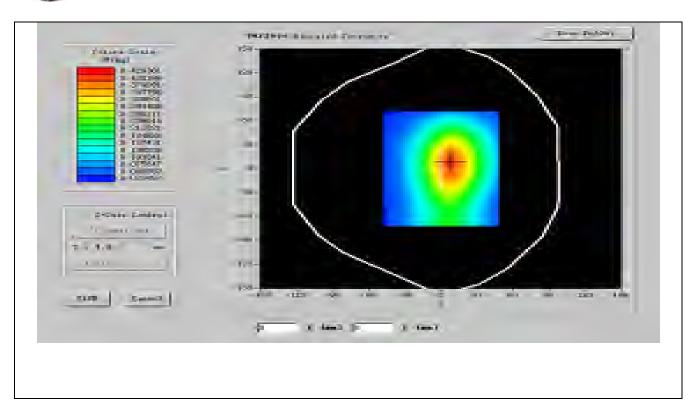
B. Instrumentations.

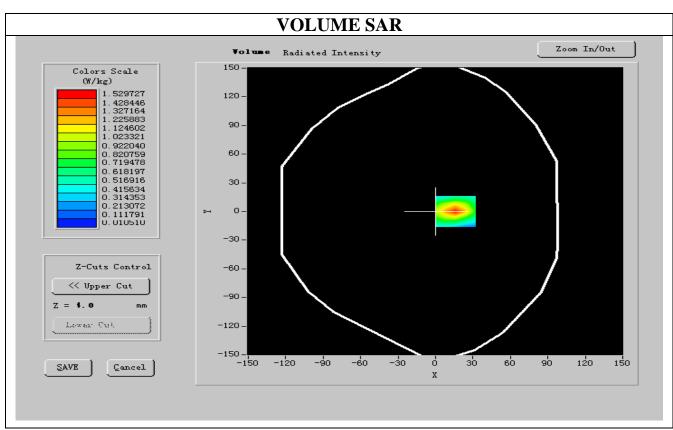
PC	HP (Pentium(R) V3.06GHz, SN:375052-AA1)	Calibration Due: N/A
Wireless Communication Test Set	R&S (CMU200, SN:B23-03291)	Calibration Due: 05/25/2011
Network Analyzer	Agilent(E5071B, MY42301382)	Calibration Due: 03/24/2012
Voltmeter	Keithley (2000, SN:1015843)	Calibration Due: 05/25/2011
Signal Generator	Agilent (E8257C, SN:MY43321570)	Calibration Due: 03/24/2012
Amplifier	Mini-Circuits (ZHL-42,	Calibration Due: 07/29/2011
	SN:110405)	
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibration Due: 03/24/2012
Probe	Antennessa (SN:SN_1109_EP_100)	Calibration Due: 05/04/2011
DIPOLE 1900	Antennessa (DIPG35,SN 48/05)	Calibration Due: 02/09/2012
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibration Due: N/A
Liquid	Antennessa	Calibration Due: N/A
Measurement SW	OPEN SAR V2.1	Calibration Due: N/A

Frequency (MHz)	1909.800000
Relative permitivity (real part)	51.813332
Relative permitivity (imaginary part)	14.319230
Conductivity (S/m)	1.513224
Variation (%)	-0.130000
Ambient Temperature:	21 °C
Liquid Temperature:	20.4 °C
ConvF:	40.42, 41.12, 54.75
Crest factor:	2:1
SURFACE SA	AR

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SAR 10g (W/Kg)	0.143279
SAR 1g (W/Kg)	0.268141



Date of Issue: April 11, 2011

SAR, Z Axis Scan (X = -10, Y = 12)

