

Report No.: SZ12070197S01



SAR TEST REPO

Issued to

Verykool USA Inc

For

3G Mobile Phone

Model Name Trade Name Brand Name FCC ID Standard	 S635 verykool verykool WA6S635 FCC Oet65 Supplement C Jun.2001 47CFR 2.1093 ANSI C95.1-1999 IEEE 1528-2003 	
MAX SAR	: Head: 0.718W/kg Body: 0.727W/kg	
Test date	2012-7-28	
Issue date Shenzhen MORL	2012-8-6 Certification All & oromunication Stechnology Co., Ltd. 0 M. System Certification	
Tested by Zhu Zhan Approved by 2 agreed Review by Sund-pog Zhu Zhan Wei Yanquan Samuel. Peng Date 2012. 8.6 Date 2012. 8.6		
CTIA Authorized Test Lab LAB CODE 20081223-00 IEEE 1725 OTA 電訊管理	FCC Reg. No. 741109	

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Change History		
Issue Date Reason for change		
1.0	Aug. 6, 2012	First edition



1. Testing Laboratory

1.1. Identification of the Responsible Testing Laboratory

Company Name:	Shenzhen Morlab Communications Technology Co., Ltd.		
Department:	Morlab Laboratory		
Address:	3/F, Electronic Testing Building, Shahe Road, Nanshan		
	District, Shenzhen, 518055 P. R. China		
Responsible Test Lab Manager:	Mr. Shu Luan		
Telephone:	+86 755 86130268		
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1			

1.2. Identification of the Responsible Testing Location

Name:	Shenzhen Morlab Communications Technology Co., Ltd.	
	Morlab Laboratory	
Address:	3/F, Electronic Testing Building, Shahe Road, Nanshan	
	District, Shenzhen, 518055 P. R. China	

1.3. Accreditation Certificate

Accredited Testing Laboratory:	No. CNAS L3572
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1.4. List of Test Equipments

No.	Instrument	Туре	Cal. Date	Cal. Due
1	PC	Dell (Pentium IV 2.4GHz, SN:X10-23533)	(n.a)	(n.a)
2	Network Emulator	Rohde&Schwarz (CMU200, SN:105894)	2011-9-26	1 year
3	Voltmeter	Keithley (2000, SN:1000572)	2011-9-24	1 year
4	Synthetizer	Rohde&Schwarz (SML_03, SN:101868)	2011-9-24	1 year
5	Amplifier	Nucl udes (ALB216, SN:10800)	2011-9-24	1 year
6	Power Meter	Rohde&Schwarz (NRVD, SN:101066)	2011-9-24	1 year
7	Probe	Satimo (SN:SN_3708_EP80)	2011-9-24	1 year
8	Phantom	Satimo (SN:SN_36_08_SAM62)	2011-9-24	1 year
9	Liquid	Satimo (Last Calibration: 2012-7-28)	N/A	N.A
10	Dipole 835MHz	Satimo (SN 36/08 DIPC 99)	2011-9-24	1 year
11	Dipole 1900MHz	Satimo (SN 36/08 DIPF 102)	2011-9-24	1year
12	Dipole 2450MHz	Satimo (SN 36/08 DIPJ 103)	2011-9-24	lyear



2. Technical Information

Note: the following data is based on the information by the applicant.

2.1. Identification of Applicant

Company Name:	Verykool USA Inc
Address:	4350 Executive Dr. #100, San Diego

2.2. Identification of Manufacturer

Company Name:	Shenzhen SanMu Communication Technology Co.,Ltd		
Address:	3/F Block T2-A, Shenzhen Software Park, Southern Zone, Hi-Tech		
	Industrial Pack, Nanshan, Shenzhen		

2.3. Equipment Under Test (EUT)

Model Name:	S635
Trade Name:	verykool
Brand Name:	verykool
Hardware Version:	N/A
Software Version:	N/A
Frequency Bands:	GSM 850MHz / PCS 1900MHz; WCDMA 850MHz/1900MHz;
	WIFI802.11 B/G/N;
Modulation Mode:	GSM/GPRS: GMSK; EDGE: 8PSK
	WIFI802.11B: DSSS; WIFI802.11G: OFDM
Multislot Class	GPRS: Multislot Class 12; EDGE: Multislot Class 12
Antenna type:	Fixed Internal Antenna
Development Stage:	Identical prototype
Battery Model:	4U
Battery specification:	1000mAh3.7V

2.3.1. Photographs of the EUT

Please see for photographs of the EUT.

2.3.2. Identification of all used EUT

The EUT identity consists of numerical and letter characters, the letter character indicates the test sample, and the following two numerical characters indicate the software version of the test sample.

EUT Identity	Hardware Version	Software Version
1#	N/A	N/A



2.4. Applied Reference Documents

Leading reference documents for testing:

Leading							
No.	Identity	Document Title					
1	47 CFR§2.1093	Radiofrequency Radiation Exposure Evaluation: Portable					
		Devices					
2	FCC OET Bulletin	Evaluating Compliance with FCC Guidelines for Human					
	65 (Edition 97-01),	Exposure to Radiofrequency Electromagnetic Fields					
	Supplement C						
	(Edition 01-01)						
3	ANSI C95.1-1999	IEEE Standard for Safety Levels with Respect to Human					
		Exposure to Radio Frequency Electromagnetic Fields, 3kHz to					
		300 GHz					
4	IEEE 1528-2003	Recommended Practice for Determining the Peak					
		Spatial-Average Specific Absorption Rate(SAR) in the Human					
		Body Due to Wireless Communications Devices: Experimental					
		Techniques.					
5	KDB 648474 D1	SAR Evaluation Considerations for Handsets with Multiple					
		Transmitters and Antennas					
6	KDB941225D1 v02	SAR Measurement Procedures for 3G Devices					
7	KDB 2484227	SAR Measurement Procedures for 802.11 a/b/g Transmitters					

2.5. Device Category and SAR Limits

This device belongs to portable device category because its radiating structure is allowed to be used within 20 centimeters of the body of the user. Limit for General Population/Uncontrolled exposure should be applied for this device, it is 1.6 W/kg as averaged over any 1 gram of tissue.



2.6. Test Environment/Conditions

20 25 °C
30 75 %
980 1020 hPa
GSM 850MHz PCS 1900MHz
WCDMA 850MHz WCDMA1900MHz
WIFI 802.11B
Call established
GSM 850 MHz Maximum output power(level 5)
PCS 1900 MHz Maximum output power(level 0)
WCDMA Maximum output power
WIFI Maximum output power

During SAR test, EUT is in Traffic Mode (Channel Allocated) at Normal Voltage Condition. A communication link is set up with a System Simulator (SS) by air link, and a call is established. The Absolute Radio Frequency Channel Number (ARFCN) is allocated to 125, 190 and 251 respectively in the case of GSM 850 MHz, or to 512, 661 and 810 respectively in the case of PCS

1900 MHz ,or to 9262, 9400 and 9538 respectively in the case of WCDMA 1900, or to 4132, 4182 and 4233 respectively in the case of WCDMA 850. The EUT is commanded to operate at maximum transmitting power.

During WIFI SAR test, the EUT was located at channel 1, 6, 11. And EUT was commanded to operate at maximum transmitting power.

The EUT shall use its internal transmitter. The antenna(s), battery and accessories shall be those specified by the manufacturer. The EUT battery must be fully charged and checked periodically during the test to ascertain uniform power output. If a wireless link is used, the antenna connected to the output of the base station simulator shall be placed at least 50 cm away from the handset.

The signal transmitted by the simulator to the antenna feeding point shall be lower than the output power level of the handset by at least 35 dB.

For SAR testing, EUT is in GPRS/EDGE or WCDMA link mode. In GPRS/EDGE link mode, its crest factor is 2, because EUT is set in GPRS/EDGE multi-slot class 12 with 4 uplink slots. In WCDMA and WIFI mode, its crest factor is 1.



3. Specific Absorption Rate (SAR)

3.1. Introduction

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

3.2. SAR Definition

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

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

SAR is expressed in units of Watts per kilogram (W/kg) SAR measurement can be either related to the temperature elevation in tissue by

$$SAR = C \frac{\delta T}{\delta t}$$

, where C is the specific head capacity, δ T is the temperature rise and δ t the exposure duration, or related to the electrical field in the tissue by

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

, where σ is the conductivity of the tissue, ρ is the mass density of the tissue and E is the rms electrical field strength.

However for evaluating SAR of low power transmitter, electrical field measurement is typically applied.



4. SAR Measurement Setup

4.1. The Measurement System

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.



The EUT 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 10g mass.

4.2. Probe

For the measurements the Specific Dosimetric E-Field Probe SN 37/08 EP80 with following specifications is used

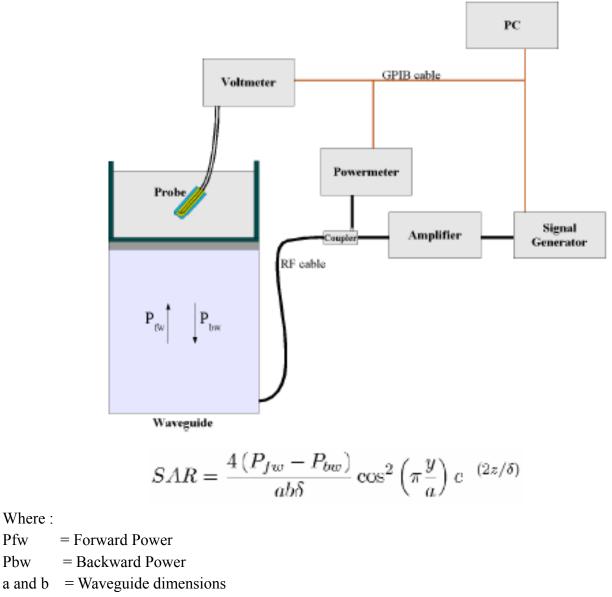
- Dynamic range: 0.01-100 W/kg
- Tip Diameter : 6.5 mm
- Distance between probe tip and sensor center: 2.5mm
- Distance between sensor center and the inner phantom surface: 4 mm (repeatability better than +/- 1mm)



- Probe linearity: < 0.25 dB
- Axial Isotropy: <0.25 dB
- Spherical Isotropy: <0.25 dB
- Calibration range: 835to 2500MHz for head & body simulating liquid.

Angle between probe axis (evaluation axis) and suface normal line:1ess than 30°

Probe calibration is realized, in compliance with CENELEC EN 62209 and IEEE 1528 std, with CALISAR, Antennessa proprietary calibration system. The calibration is performed with the EN 622091 annexe technique using reference guide at the five frequencies.



= Skin depth 1

Where : Pfw

Pbw

Keithley configuration:

Rate = Medium; Filter =ON; RDGS=10; FILTER TYPE =MOVING AVERAGE; RANGE AUTO After each calibration, a SAR measurement is performed on a validation dipole and compared with a NPL calibrated probe, to verify it.



The calibration factors, CF(N), for the 3 sensors corresponding to dipole 1, dipole 2 and dipole 3 are:

$$CF(N)=SAR(N)/Vlin(N)$$
 (N=1,2,3)

The linearised output voltage Vlin(N) is obtained from the displayed output voltage V(N) using

Vlin(N)=V(N)*(1+V(N)/DCP(N)) (N=1,2,3)

where DCP is the diode compression point in mV.

4.3. Probe Calibration Process

4.3.1 Dosimetric Assessment Procedure

Each E-Probe/Probe Amplifier combination has unique calibration parameters. SATIMO Probe calibration procedure is conducted to determine the proper amplifier settings to enter in the probe parameters. The amplifier settings are determined for a given frequency by subjecting the probe to a known E-field density (1 mW/cm2) using an with CALISAR, Antenna proprietary calibration system.

4.3.2 Free Space Assessment Procedure

The free space E-field from amplified probe outputs is determined in a test chamber. This calibration can be performed in a TEM cell if the frequency is below 1 GHz and in a waveguide or other methodologies above 1 GHz for free space. For the free space calibration, the probe is placed in the volumetric center of the cavity and at the proper orientation with the field. The probe is rotated 360 degrees until the three channels show the maximum reading. The power density readings equates to 1 mW/cm2.

4.3.2 Temperature Assessment Procedure

E-field temperature correlation calibration is performed in a flat phantom filled with the appropriate simulated head tissue. The E-field in the medium correlates with the temperature rise in the dielectric medium. For temperature correlation calibration a RF transparent thermistor-based temperature probe is used in conjunction with the E-field probe.

SAR = $C \frac{\Delta T}{\Delta t}$ Where: $\Delta t = \text{exposure time (30 seconds),}$ C = heat capacity of tissue (brain or muscle), $\Delta T = \text{temperature increase due to RF exposure.}$

SAR is proportional to $\Delta T/\Delta t$, the initial rate of tissue heating, before thermal diffusion takes place. The electric field in the simulated tissue can be used to estimate SAR by equating the thermally derived SAR to that with the E- field component.

	Where:
$SAR = \frac{ E ^2 \cdot \sigma}{1 - \frac{ E ^2}{2} \cdot \sigma}$	σ = simulated tissue conductivity,
ρ	ρ = Tissue density (1.25 g/cm3 for brain tissue)

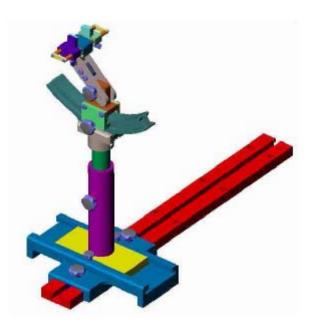


4.4. Phantom

For the measurements the Specific Anthropomorphic Mannequin (SAM) defined by the IEEE SCC-34/SC2 group is used. The phantom is a polyurethane shell integrated in a wooden table. The thickness of the phantom amounts to $2mm \pm 0.2mm$. It enables the dosimetric evaluation of left and right phone usage and includes an additional flat phantom part for the simplified performance check. The phantom set-up includes a cover, which prevents the evaporation of the liquid.

4.5. Device Holder

The positioning system allows obtaining cheek and tilting position with a very good accuracy. In compliance with CENELEC, the tilt angle uncertainty is lower than 1°.



Device holder

System Material	Permittivity	Loss Tangent
Delrin	3.7	0.005



5. Tissue Simulating Liquids

Simulant liquids that are used for testing at frequencies of 850, 1900MHz and 2450MHz. which are made mainly of sugar, salt and water solutions may be left in the phantoms. Approximately 20litres are needed for an upright head compared to about 25 litres for a horizontal bath phantom. The liquid height from the ear reference point (ERP) of the phantom to the liquid top surface is (head SAR) or from the flat phantom to the liquid top surface (body SAR) is 15cm.

Following are the recipes for one liter of head and body tissue simulating liquid for frequency band 835 MHz, 1900 MHz and 2450 MHz.

Ingredients	Frequen	cy Band	Frequen	cy Band	Frequency Band		
(% by weight)	835]	MHz	1900	MHz	2450	MHz	
Tissue Type	Head	Body	Head	Body	Head	Body	
Water	41.45	52.4	54.9	40.4	62.7	73.2	
Salt(NaCl)	1.45	1.4	0.18	0.5	0.5	0.04	
Sugar	56.0	45.0	0.0	58.0	0.0	0.0	
HEC	1.0	1.0	0.0	1.0	0.0	0.0	
Bactericide	0.1	0.1	0.0	0.1	0.0	0.0	
Triton	0.0	0.0	0.0	0.0	0.0	0.0	
DGBE	0.0	0.0	44.92	0.0	36.8	0.0	
Acticide SPX	0.0	0.0	0.0	0.0	0.0	26.7	
Dielectric Constant	42.45	56.1	39.9	54.0	39.8	52.5	
Conductivity (S/m)	0.91	0.95	1.42	1.45	1.88	1.97	

Recipes for Tissue Simulating Liquid

The dielectric parameters of the liquids were verified prior to the SAR evaluation using an Agilent 85033E Dielectric Probe Kit and an Agilent Network Analyzer.

Table 1: Dielectric Performance of Head Tissue Simulating Liquid

perature: 22.0~23.8°C, humidity: 54~60%.							
Frequency	Description	Permittivity ε	Conductivity σ (S/m				
	Reference result	41.5	0.90				
925 MIL-	$\pm 5\%$ window	39.425 to 43.575	0.855 to 0.945				
835 MHz	Validation value	41 (75000	0.004400				
	(Jul. 28)	41.675999	0.894409				
	Reference result	40	1.40				
1000 MIL-	$\pm 5\%$ window	38 to 42	1.33 to 1.47				
1900 MHz	Validation value	29,50000	1.42(111				
	(Jul. 28)	38.509998	1.436111				
	Reference result	39.2	1.80				
2450 1 (14	$\pm 5\%$ window	27.24 to 41.16	1.71 to 1.89				
2450 MHz	Validation value	20 (22957	1.054710				
	(Jul. 28)	39.622857	<mark>1.854712</mark>				



For body-worn measurements, the device was tested against flat phantom representing the user body. Under measurement phone was put on in the phone holder.

Temperature: 22.0~2	mperature: 22.0~23.8°C, humidity: 54~60%.						
Frequency	Description	Permittivity ε	Conductivity σ (S/m)				
	Reference result	55.2	0.97				
835 MHz	\pm 5% window	52.44 to 57.96	0.9215 to 1.0185				
833 WITZ	Validation value	55,709999	0.9809033				
	(Jul. 28)	55.709999	0.9609035				
	Reference result	53.3	1.52				
1900 MHz	\pm 5% window	50.635 to 55.965	1.444 to 1.596				
1900 MIRZ	Validation value (Jul. 28)	52.548876	1.553978				
	Reference result	52.7	1.95				
2450 MIL-	$\pm 5\%$ window	50.065 to 55.335	1.853 to 2.048				
2450 MHz	Validation value (Jul. 28)	52.548876	1.974257				

Table 2: Dielectric Performance of Body Tissue Simulating Liquid



6. Uncertainty Assessment

The following table includes the uncertainty table of the IEEE 1528. The values are determined by Antennessa.

6.1. UNCERTAINTY EVALUATION FOR HANDSET SAR TEST

a	b	c	d	e=f(d,k)	f	g	h=c*f/e	i= c*g/ e	k
Uncertainty Component	Sec.	Tol (+- %)	Prob. Dist.	Div.	Ci (1g)	Ci (10g)	1g Ui (+-%)	10g Ui (+- %)	Vi
Measurement System									
Probe calibration	E.2.1	4.76	N	1	1	1	4.76	4.76	~
Axial Isotropy	E.2.2	2.5	R	$\sqrt{3}$	0.7	0.7	1.01	1.01	~
Hemispherical Isotropy	E.2.2	4.0	R	$\sqrt{3}$	0.7	0.7	1.62	1.62	~
Boundary effect	E.2.3	1.0	R	$\sqrt{3}$	1	1	0.58	0.58	~
Linearity	E.2.4	5.0	R	$\sqrt{3}$	1	1	2.89	2.89	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
System detection limits	E.2.5	1.0	R	$\sqrt{3}$	1	1	0.58	0.58	~
Readout Electronics	E.2.6	0.02	N	1	1	1	0.02	0.02	~
Reponse Time	E.2.7	3.0	R	$\sqrt{3}$	1	1	1.73	1.73	~
Integration Time	E.2.8	2.0	R	$\sqrt{3}$	1	1	1.15	1.15	~
RF ambient Conditions	E.6.1	3.0	R	$\sqrt{3}$	1	1	1.73	1.73	~
Probe positioner Mechanical Tolerance	E.6.2	2.0	R	$\sqrt{3}$	1	1	1.15	1.15	~
Probe positioning with respect to Phantom Shell	E.6.3	0.05	R	$\sqrt{3}$	1	1	0.03	0.03	~
Extrapolation, interpolation and integration Algoritms for Max. SAR Evaluation	E.5.2	5.0	R	$\sqrt{3}$	1	1	2.89	2.89	×
Test sample Related									
Test sample positioning	E.4.2.1	0.03	N	1	1	1	0.03	0.03	N 1
Device Holder Uncertainty	E.4.1.1	5.00	N	1	1	1	5.00	5.00	N 1
Output power Power drift - SAR drift measurement	6.6.2	4.04	R	$\sqrt{3}$	1	1	2.33	2.33	×
Phantom and Tissue Parameter	rs		<u>I</u>						
Phantom Uncertainty (Shape and thickness tolerances)	E.3.1	0.05	R	$\sqrt{3}$	1	1	0.03	0.03	×



Liquid conductivity - deviation	E.3.2	4.57	R	$\sqrt{3}$	0.64	0.43	1.69	1.13	8
from target value									
Liquid conductivity -	E.3.3	5.00	N	1	0.64	0.43	3.20	2.15	М
measurement uncertainty									
Liquid permittivity - deviation	E.3.2	3.69	R	$\sqrt{3}$	0.6	0.49	1.28	1.04	∞
from target value									
Liquid permittivity -	E.3.3	10.00	N	1	0.6	0.49	6.00	4.90	М
measurement uncertainty									
Combined Standard			RSS				11.55	10.6	
Uncertainty								7	
Expanded Uncertainty			K=2				23.11	21.3	
(95% Confidence interval)								3	

6.2. UNCERTAINTY FOR SYSTEM PERFORMANCE CHECK

a	b	c	d	e=f(d,k)	f	g	h = c*f/e	i=	k
								c*g/	
								e	
Uncertainty Component	Sec.	Tol	Prob.	Div.	Ci	Ci	1g Ui	10g	Vi
		(+- %	Dist.		(1g)	(10g)	(+-%)	Ui	
)						(+-	
								%)	
Measurement System	1	1	1	1	.1	1	1		1
Probe calibration	E.2.1	4.76	N	1	1	1	4.76	4.76	∞
Axial Isotropy	E.2.2	2.5	R	$\sqrt{3}$	0.7	0.7	1.01	1.01	∞
Hemispherical Isotropy	E.2.2	4.0	R	$\sqrt{3}$	0.7	0.7	1.62	1.62	∞
Boundary effect	E.2.3	1.0	R	$\sqrt{3}$	1	1	0.58	0.58	∞
Linearity	E.2.4	5.0	R	$\sqrt{3}$	1	1	2.89	2.89	∞
System detection limits	E.2.5	1.0	R	$\sqrt{3}$	1	1	0.58	0.58	∞
Readout Electronics	E.2.6	0.02	N	1	1	1	0.02	0.02	8
Reponse Time	E.2.7	3.0	R	$\sqrt{3}$	1	1	1.73	1.73	∞
Integration Time	E.2.8	2.0	R	$\sqrt{3}$	1	1	1.15	1.15	∞
RF ambient Conditions	E.6.1	3.0	R	$\sqrt{3}$	1	1	1.73	1.73	∞
Probe positioner Mechanical	E.6.2	2.0	R	$\sqrt{3}$	1	1	1.15	1.15	∞
Tolerance									
Probe positioning with respect	E.6.3	0.05	R	$\sqrt{3}$	1	1	0.03	0.03	∞
to Phantom Shell									
Extrapolation, interpolation and	E.5.2	5.0	R	$\sqrt{3}$	1	1	2.89	2.89	∞
integration Algoritms for Max.									
SAR Evaluation									
Dipole						_			
Dipole axis to liquid Distance	8,E.4.2	1.00	N	$\sqrt{3}$	1	1	0.58	0.58	∞



Input power and SAR drift	8,6.6.2	4.04	R	$\sqrt{3}$	1	1	2.33	2.33	8
measurement								!	
Phantom and Tissue Parameter	rs								
Phantom Uncertainty (Shape	E.3.1	0.05	R	$\sqrt{3}$	1	1	0.03	0.03	∞
and thickness tolerances)								!	
Liquid conductivity - deviation	E.3.2	4.57	R	$\sqrt{3}$	0.64	0.43	1.69	1.13	∞
from target value									
Liquid conductivity -	E.3.3	5.00	N	$\sqrt{3}$	0.64	0.43	1.85	1.24	М
measurement uncertainty								!	
Liquid permittivity - deviation	E.3.2	3.69	R	$\sqrt{3}$	0.6	0.49	1.28	1.04	∞
from target value								!	
Liquid permittivity -	E.3.3	10.00	N	$\sqrt{3}$	0.6	0.49	3.46	2.83	М
measurement uncertainty								!	
Combined Standard			RSS				8.83	8.37	
Uncertainty								!	
Expanded Uncertainty			K=2				17.66	16.7	
(95% Confidence interval)								3	



7. SAR Measurement Evaluation

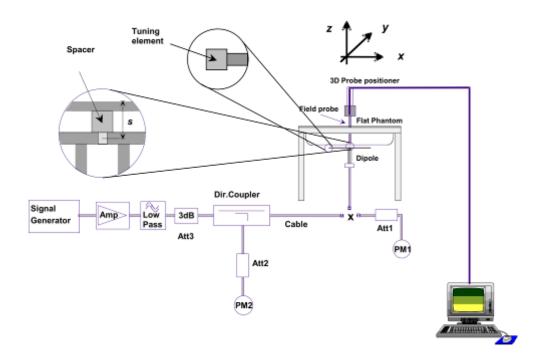
7.1. System Setup

In the simplified setup for system evaluation, the DUT is replaced by a calibrated dipole and the power source is replaced by a continuous wave which comes from a signal generator at frequency 835 MHz, 1900 MHz and 2450MHz. The calibrated dipole must be placed beneath the flat phantom section of the SAM twin phantom with the correct distance holder. The distance holder should touch the phantom surface with a light pressure at the reference marking and be oriented parallel to the long side of the phantom.

Equipments:

name	Type and specification
Signal generator	E4433B
Directional coupler	450MHz-3GHz
Amplifier	3W 502(10-2500MHz)
Reference dipole	835MHz:SN 36/08 DIPC 99
	1900MHz:SN 36/08 DIPF 102
	2450MHz:SN 36/08 DIPJ 103

System Verification Setup Block Diagram





7.2. Validation Results

Comparing to the original SAR value provided by SATIMO, the validation data should be within its specification of 10 %.

Frequency	835MHz(Head)	835MHz(Body)	1900MHz(Head)	1900MHz(Body)
Target value (1g)	9.714 W/Kg	9.714 W/Kg	39.89 W/Kg	39.89 W/Kg
250 mW input power	2.478 W/Kg	2.386 W/Kg	9.455 W/Kg	9.740 W/Kg
Test value (1g)	9.912 W/Kg	9.544W/Kg	37.820 W/Kg	38.960 W/Kg

Frequency	2450MHz(Head)	2450MHz(Body)
Target value (1g)	53.850 W/Kg	50.820 W/Kg
250 mW input power	12.443 W/Kg	12.789 W/Kg
Test value (1g)	49.772 W/Kg	51.156W/Kg

Note: System checks the specific test data please see page 122~133.

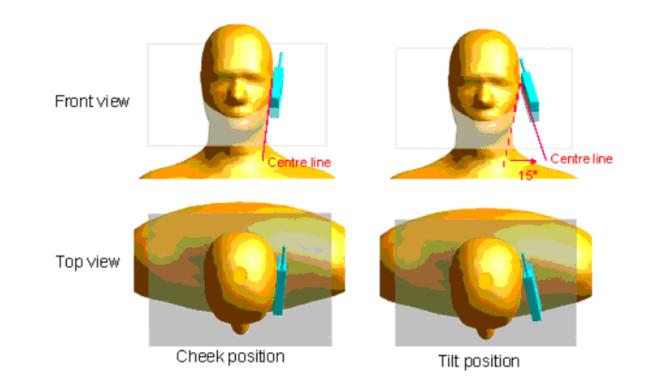


8. Operational Conditions During Test

8.1. Informations on the testing

The mobile phone antenna and battery are those specified by the manufacturer. The battery is fully charged before each measurement. The output power and frequency are controlled using a base station simulator. The mobile phone is set to transmit at its highest output peak power level.

The mobile phone is test in the "cheek" and "tilted" positions on the left and right sides of the phantom. The mobile phone is placed with the vertical centre line of the body of the mobile phone and the horizontal line crossing the centre of the earpiece in a plane parallel to the sagittal plane of the phantom.



Description of the "cheek" position:

The mobile phone is well placed in the reference plane and the earpiece is in contact with the ear. Then the mobile phone is moved until any point on the front side get in contact with the cheek of the phantom or until contact with the ear is lost.

Description of the "tilted" position:

The mobile phone is well placed in the "cheek" position as described above. Then the mobile phone is moved outward away from the month by an angle of 15 degrees or until contact with the ear lost.

Remark: Please refer to Appendix B for the test setup photos.

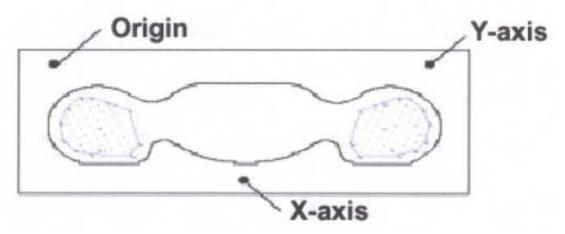


8.2. Body-worn Configurations

The body-worn configurations shall be tested with the supplied accessories (belt-clips, holsters, etc.) attached to the device in normal use configuration.

The depth of the body tissue was 15.1cm. The distance between the back of the device and the bottom of the flat phantom is 1.5cm(taking into account of the IEEE 1528 and the place of the antenna)

For body-worn and other configurations a flat phantom shall be used which is comprised of material with electrical properties similar to the corresponding tissues.



SAR Measurement Points in Area Scan

8.3. Measurement procedure

The following steps are used for each test position

- Establish a call with the maximum output power with a base station simulator. The connection between the mobile and the base station simulator is established via air interface
- Measurement of the local E-field value at a fixed location. This value serves as a reference value for calculating a possible power drift.
- Measurement of the SAR distribution with a grid of 8 to 16mm * 8 to16 mm and a constant distance to the inner surface of the phantom. Since the sensors can not directly measure at the inner phantom surface, the values between the sensors and the inner phantom surface are extrapolated. With these values the area of the maximum SAR is calculated by an interpolation scheme.
- Around this point, a cube of 30 * 30 * 30 mm or 32 * 32 * 32 mm is assessed by measuring 5 or 8
 * 5 or 8*4 or 5 mm. With these data, the peak spatial-average SAR value can be calculated.



8.4. Description of interpolation/extrapolation scheme

The local SAR inside the phantom is measured using small dipole sensing elements inside a probe body. The probe tip must not be in contact with the phantom surface in order to minimize measurements errors, but the highest local SAR will occur at the surface of the phantom.

An extrapolation is using to determinate this highest local SAR values. The extrapolation is based on a fourth-order least-square polynomial fit of measured data. The local SAR value is then extrapolated from the liquid surface with a 1mm step.

The measurements have to be performed over a limited time (due to the duration of the battery) so the step of measurement is high. It could vary between 5 and 8 mm. To obtain an accurate assessment of the maximum SAR averaged over 10 grams and 1 gram requires a very fine resolution in the three dimensional scanned data array.



9. 3G MEASUREMENT PROCEDURES

9.1. Procedures Used To Establish Test Signal

The handset was placed into a simulated call using a base station simulator in a shielded chamber. Such test signals offer a consistent means for testing SAR and are recommended for evaluating SAR. SAR measurements were taken with a fully charged battery. In order to verify that the device was tested and maintained at full power, this was configured with the base station simulator. The SAR measurement software calculates a reference point at the start and end of the test to check for power drifts. If conducted power deviations of more then 5% occurred, the tests were repeated.

9.2. SAR Measurement Conditions for WCDMA

These procedures were followed according to FCC KDB 941225, October, 2007.

9.3. Output Power Verification

Maximum output power is verified on the High, Middle and Low channels according to the general descriptions in section 5.2 of 3GPP TS 34.121, using the appropriate RMC or AMR with TPC(transmit power control) set to all "1s". Results for all applicable physical channel configurations (DPCCH, DPDCH and spreading codes) should be tabulated in the test report. All configurations that are not supported by the EUT or cannot be measured due to technical or equipment limitations should be clearly identified.



9.4. Measurement Of Conducted Peak Output Power.

1. WCDMA Conducted peak output power

	band	W	CDMA 8	50	W	CDMA 19	900
Item	ARFCN	4132	4175	4233	9262	9400	9538
	subtest		dBm			dBm	
5.2(WCDMA)	non	22.27	22.78	22.59	21.53	21.86	21.69
	1	22.25	22.76	22.57	21.51	21.83	21.68
HSDPA	2	22.24	22.77	22.57	21.49	21.86	21.67
пэрга	3	21.81	22.29	22.12	21.05	21.39	21.21
	4	21.79	22.28	22.11	21.11	21.41	21.23
	1	22.26	22.77	22.61	21.52	21.85	21.68
	2	20.29	20.79	20.59	19.56	19.89	19.72
HSUPA	3	21.28	21.80	21.60	20.54	20.88	20.71
	4	20.31	20.81	20.62	19.59	19.87	19.69
	5	22.29	22.76	22.58	21.52	21.84	21.67

2. GSM Conducted peak output power

Band	Channel	Frequency (MHz)	Output Power (dBm)
GSM	128	824.2	33.14
850	190	836.6	33.19
850	251	848.8	33.19
DCG	512	1850.2	29.83
PCS 1900	661	1880.0	29.88
1900	810	1909.8	30.11

2. GPRS Mode Conducted peak output power

Dand	Channal	Frequency		Output Power(dBm)			
Band	Channel	(MHz)		Slot 2	Slot 3	Slot 4	
CSM	128	824.2	33.11	31.94	28.88	28.02	
GSM 850	190	836.6	33.10	31.69	28.90	28.00	
830	251	848.8	32.97	32.18	28.95	28.09	
DCG	512	1850.2	29.02	28.19	26.43	25.34	
PCS 1900	661	1880.0	28.99	28.18	26.44	25.36	
1900	810	1909.8	29.18	28.44	26.65	25.59	



GPRS Mode Average peak output power

Dand	Channel	Frequency		Output Power(dBm)			
Band	Channel	(MHz)	Slot 1	Slot 2	Slot 3	Slot 4	
CSM	128	824.2	24.11	25.92	24.62	25.01	
GSM 850	190	836.6	24.10	25.67	24.64	24.99	
830	251	848.8	23.97	26.16	24.69	25.08	
DCG	512	1850.2	20.02	22.17	22.17	22.33	
PCS 1900	661	1880.0	19.99	22.16	22.18	22.35	
1900	810	1909.8	20.18	22.42	22.39	22.58	

3. EDGE Mode Conducted peak output power

Dand	Channel	End Frequency Output Power(dBm)				
Band	Channel	(MHz)	Slot 1	Slot 2	Slot 3	Slot 4
CGM	128	824.2	27.19	26.48	24.58	23.38
GSM 850	190	836.6	27.22	26.54	24.67	23.64
830	251	848.8	27.28	26.61	24.78	23.65
DCG	512	1850.2	26.44	25.80	23.42	22.32
PCS 1900	661	1880.0	26.35	25.91	23.26	22.07
1900	810	1909.8	26.28	25.84	23.31	21.93

EDGE Mode Average peak output power

Dond	Channal	Frequency	Output Power(dBm)			
Band	Channel	(MHz)	Slot 1	Slot 2	Slot 3	Slot 4
CSM	128	824.2	18.19	20.46	20.32	20.37
GSM 850	190	836.6	18.22	20.52	20.41	20.63
830	251	848.8	18.28	20.59	20.52	20.64
DCG	512	1850.2	17.44	19.78	19.16	19.31
PCS 1900	661	1880.0	17.35	19.89	19.00	19.06
1900	810	1909.8	17.28	19.82	19.05	18.92

Timeslot consignations:

No. Of Slots	Slot 1	Slot 2	Slot 3	Slot 4
Slot Consignation	1Up4Down	2Up2Down	3Up2Down	4Up1Down
Duty Cycle	1:8	1:4	1:2.67	1:2
Correct Factor	-9.00dB	-6.02dB	-4.26dB	-3.01dB



4. Wifi peak output power

		Frequen	Output Power(dBm)				
Band	Channel	cy	802.11B	802.11G	802.11N20		
	(MHz)	(DSSS)	(OFDM)	(OFDM)			
	1	2412	14.68	14.70	14.53		
WiFi	6	2437	14.92	13.18	15.85		
	11	2462	16.57	14.93	14.99		

Band	Channel	Frequenc y (MHz)	Output Power(dBm) 802.11N40 (OFDM)
	3	2422	14.31
WiFi	6	2437	14.40
	9	2452	13.71

5. Bluetooth peak output power

Dand	Channel	Frequency	Output Pow	ver(dBm)
Band	Channel	(MHz)	GFSK	8DPSK
	0	2402	10.61	10.25
BT	39	2441	10.34	9.927
	78	2480	9.977	9.471



10.Test Results List

Summary of Measurement Results (GSM 850MHz Band)

Temperature: 21.0~23.8°C, humidity: 54~60%.						
				SAR	(W/Kg), 1g	Peak
Phanto	m	Device Test	Antenna	Device Test channel,		nnel,
Configura	tions	Positions	Positions	Channel	Channel	Channel
				128	190	251
Right S	ide	Cheek/Touch	Internal	/	0.705	0.714
Of Head		Ear/Tilt	Internal	/	0.205	0.165
Left Side		Cheek/Touch	Internal	/	0.718	0.646
Of Hea	Of Head		Internal	/	0.272	0.204
	COM	Back upward	Internal	/	0.482	0.461
Body	GSM	Face Upward	Internal	/	0.212	0.210
(15mm	CDDC	Back upward	Internal	/	/	0.642
Separation)	GPRS	Face Upward	Internal	/	/	0.329
	EDGE	Back upward	Internal	/	/	0.579

Summary of Measurement Results (GSM 1900MHz Band)

Temperature: 21.0~23.8°C, humidity: 54~60%.						
				SAR	(W/Kg), 1g	Peak
Phanto	m	Device Test	Antenna	Device Test channel,		
Configura	tions	Positions	Positions	Channel	Channel	Channel
				512	661	810
Right S	ide	Cheek/Touch	Internal	/	/	0.603
Of Head		Ear/Tilt Interna		/	/	0.202
Left Side		Cheek/Touch	Internal	/	/	0.495
Of Head		Ear/Tilt	Internal	/	/	0.183
	GSM	Back upward	Internal	/	/	0.241
Body	USM	Face Upward	Internal	/	/	0.144
(15mm	GPRS	Back upward	Internal	/	/	0.727
Separation)	UrKS	Face Upward	Internal	/	/	0.433
	EDGE	Back upward	Internal	/	0.618	/

Note:

1. The SAR test shall be performed at the high, middle and low frequency channels of each operating mode, when the SAR of highest power channel of each configurations is less than 0.8 W/kg, refer to KDB 648474, testing for the other channels is not required.



Temperature: 21.0~23.8°C, humidity: 54~60%.					
			SAR(W/Kg), 1g Peak		
Phantom	Device Test	Antenna	De	vice Test chan	nel
Configurations	Positions	Positions	Channel	Channel	Channel
			4132	4175	4233
Right Side	Cheek/Touch	Internal	/	0.250	/
Of Head	Ear/Tilt	Internal	/	0.058	/
Left Side	Cheek/Touch	Internal	/	0.307	/
Of Head	Ear/Tilt	Internal	/	0.075	/
Body (15mm	Back upward	Internal	/	0.379	/
Separation)	Face Upward	Internal	/	0.223	/

Summary of Measurement Results (WCDMA 850MHz Band)

Note:

1. Maximum SAR for 12.2kbps RMC is 0.379 W/Kg \leq 75% of the SAR limit (i.e. 1.2W/Kg 1g) and maximum average output of each RF channel with HSUPA/HSDPA active is less than 1/4 dB higher than that measured without HSUPA/HSDPA using 12.2kbps RMC (refer to Page 24 of the report), according to KDB 941225D01v02, SAR is not required for this handset with HSPA capabilities.

Summary of Measurement Results (WCDMA 1900MHz Band)

Temperature: 21.0~23.8°C, humidity: 54~60%.					
			SAR(W/Kg), 1g Peak		
Phantom	Device Test	Antenna	De	vice Test chan	nel
Configurations	Positions	Positions	Channel	Channel	Channel
			9262	9400	9538
Right Side	Cheek/Touch	Internal	/	0.652	/
Of Head	Ear/Tilt	Internal	/	0.357	/
Left Side	Cheek/Touch	Internal	/	0.645	/
Of Head	Ear/Tilt	Internal	/	0.267	/
Body	Back upward	Internal	/	0.406	/
(15mm Separation)	Face Upward	Internal	/	0.205	/

Note:

1. Maximum SAR for 12.2kbps RMC is $0.652W/Kg \le 75\%$ of the SAR limit (i.e. $1.2W/Kg \ 1g$) and maximum average output of each RF channel with HSUPA/HSDPA active is less than 1/4 dB higher than that measured without HSUPA/HSDPA using 12.2kbps RMC (refer to Page 24 of the report), according to KDB 941225D01v02, SAR is not required for this handset with HSPA capabilities.

2. The SAR test shall be performed at the high, middle and low frequency channels of each



operating mode, when the SAR of highest power channel of each configurations is less than 0.8 W/kg, refer to KDB 648474, testing for the other channels is not required.

Summary of Measurement Results (WLAN 802.11B Band)

Temperature: 21	Temperature: 21.0~23.8°C, humidity: 54~60%.				
			SAR(W/Kg), 1g Peak		
Phantom	Device Test	Antenna	De	vice Test chan	nel
Configurations	Positions	Positions	Channel	Channel	Channel
			1	6	11
Right Side	Cheek/Touch	Internal	/	/	0.040
Of Head	Ear/Tilt	Internal	/	/	0.016
Left Side	Cheek/Touch	Internal	/	/	0.075
Of Head	Ear/Tilt	Internal	/	/	0.035
Body	Back upward	Internal	/	/	0.035
(15mm Separation)	Face Upward	Internal	/	/	0.024

Note:

1.Based on the Measurement Of Conducted Peak Output Power, the max power of 801.11b is 45.mW> 24mW(13.8dBm) ,the SAR test for 802.11b is required,but 802.11g/HT20/HT40 is not required, for the maximum average output power is not 1/4 dB higher than measured on the corresponding 802.11b channels





Stand-alone SAR

- The Max. Peak output power of Wifi transmitter is 45mW > 12mW (Pref=12mW), stand-alone SAR evaluation is required for Wifi.
- The BT Max. Peak output power is $12mW \le 2*$ Pref(Pref= 12mW), and the distance between BT antenna and main antenna is 5cm > 2.5 cm, standalone SAR evaluation is not required for Bluetooth antenna.

Simultaneous SAR

The GSM and WCDMA can't simultaneous transmitting. The BT and Wifi can't simultaneous transmitting.

Test	GSM&WCDMA	Bluetooth	WiFi	∑1-g SARMax(W/Kg)	
Position	SARMax(W/Kg)	SAR(W/Kg)	SAR(W/Kg)	BT&Main Ant	WiFi&Main Ant
Head SAR	0.718	0	0.075	0.718	0.793
Body SAR	0.727	0	0.035	0.727	0.762

Simultaneous Transmission SAR evaluation is not required for BT and GSM&WCDMA, because the sum of 1g SARMax is 0.727W/Kg < 1.6W/Kg for BT and GSM&WCDMA.

Simultaneous Transmission SAR evaluation is not required for WiFi and GSM&WCDMA, because the sum of 1g SAR_{Max} is 0.793W/Kg < 1.6W/Kg for BT and GSM&WCDMA.



Annex A EUT Setup Photos

1 EUT Left Head Touch Cheek Position



2 EUT Left Head Tilt15 Position





3 EUT Right Head Touch Cheek Position

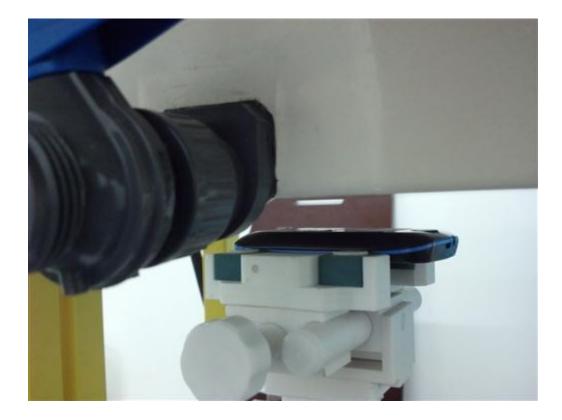


4 EUT Right Head Tilt15 Position

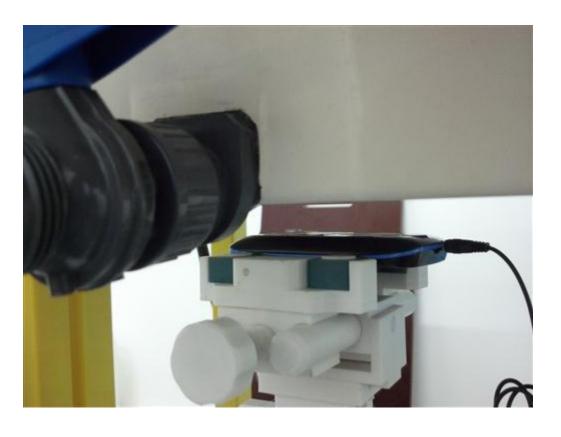




5 Side Position



6 Side position with earphone





Liquid Level Photo





Annex B Graph Test Results

BAND	PARAMETERS
	Measurement 1: Right Head with Cheek device position on Middle
	Channel in GSM mode
	Measurement 2: Right Head with Cheek device position on High
	Channel in GSM mode
	Measurement 3: Right Head with Tilt device position on Middle
	Channel in GSM mode
	Measurement 4: Right Head with Tilt device position on High
	Channel in GSM mode
	Measurement 5: Left Head with Cheek device position on Middle
	Channel in GSM mode
	Measurement 6: Left Head with Cheek device position on High
<u>GSM850</u>	Channel in GSM mode
	Measurement 7: Left Head with Tilt device position on Middle
	Channel in GSM mode
	Measurement 8: Left Head with Tilt device position on High
	Channel in GSM mode
	Measurement 9: Body position on Middle Channel in GSM mode
	Measurement 10: Body position on High Channel in GSM mode
	Measurement 11: Body position on Middle Channel in GSM mode
	Measurement 12: Body position on High Channel in GSM mode
	Measurement 13: Body position on Middle Channel in GPRS mode
	Measurement 14: Body position on Middle Channel in GPRS mode
	Measurement 15: Body position on High Channel in EDGE mode
	Measurement 16: Right Head with Cheek device position on High
	Channel in GSM mode
	Measurement 17: Right Head with Tilt device position on High
	Channel in GSM mode
	Measurement 18: Left Head with Cheek device position on High
	Channel in GSM mode
<u>GSM1900</u>	Measurement 19: Left Head with Tilt device position on High
	Channel in GSM mode
	Measurement 20: Body position on High Channel in GSM mode
	Measurement 21: Body position on High Channel in GSM mode
	Measurement 22: Body position on High Channel in GPRS mode
	Measurement 23: Body position on High Channel in GPRS mode
	Measurement 24: Body position on Middle Channel in EDGE mod
	Measurement 25: Right Head with Cheek device position on Middle
WCDMA	Channel in CDMA mode
<u>WCDMA</u> <u>850</u>	Measurement 26: Right Head with Tilt device position on Middle
	Channel in CDMA mode



	Measurement 27: Left Head with Cheek device position on Middle
	Channel in CDMA mode
	Measurement 28: Left Head with Tilt device position on Middle
	Channel in CDMA mode
	Measurement 29: Body position on Middle Channel in CDMA
	mode
	Measurement 30: Body position on Middle Channel in CDMA
	mode
	Measurement 31: Right Head with Cheek device position on Middle
	Channel in CDMA mode
	Measurement 32: Right Head with Tilt device position on Middle
	Channel in CDMA mode
	Measurement 33: Left Head with Cheek device position on Middle
<u>WCDMA</u>	Channel in CDMA mode
<u>1900</u>	Measurement 34: Left Head with Tilt device position on Middle
	Channel in CDMA mode
	Measurement 35: Body position on Middle Channel in CDMA
	mode
	Measurement 36: Body position on Middle Channel in CDMA
	mode
	Measurement 37: Right Head with Cheek device position on High
	Channel in DSSS mode
	Measurement 38: Right Head with Tilt device position on High
	Channel in DSSS mode
802.11b	Measurement 39: Left Head with Cheek device position on High
002.110	Channel in DSSS mode
	Measurement 40: Left Head with Tilt device position on High
	Channel in DSSS mode
	Measurement 41: Body position on High Channel in DSSS mode
	Measurement 42: Body position on High Channel in DSSS mode



Type: Phone measurement (Complete) Area scan resolution: dx=8mm,dy=8mm Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm Date of measurement: 28/7/2012 Measurement duration: 8 minutes 1 seconds

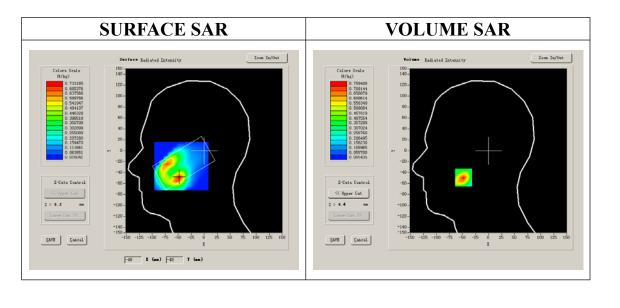
A. Experimental conditions.

Phantom File	sam_direct_droit2_surf8mm.txt			
Phantom	Right head			
Device Position	Cheek			
Band	GSM850			
Channels	Middle			
Signal	GSM			

B. SAR Measurement Results

Middle Band SAR (Channel 190):

Frequency (MHz)	836.600000			
Relative permittivity (real part)	41.675999			
Relative permittivity	19.120001			
Conductivity (S/m)	0.894409			
Power drift (%)	-0.190000			
Ambient Temperature:	22.7°C			
Liquid Temperature:	22.8°C			
ConvF:	28.479,25.214,27.196			
Crest factor:	1:8			





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

SAR 10g (W/Kg)	0.334369		
SAR 1g (W/Kg)	0.705188		

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	0.7594	0.3448	0.1661	0.0797	0.0373	0.0188
	0.8- 0.6- (24)0.5- (24)0.4- 0.4- 0.2- 0.1- 0.0-	, Z Axis			8, Y = -		





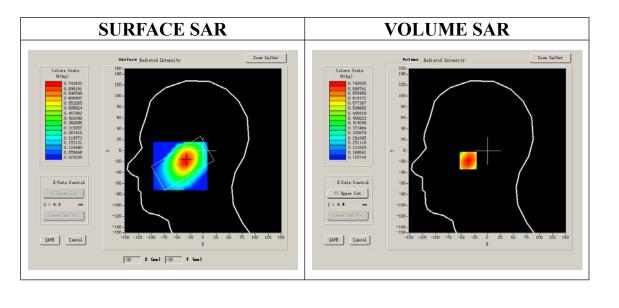
Type: Phone measurement (Complete) Area scan resolution: dx=8mm,dy=8mm Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm Date of measurement: 28/7/2012 Measurement duration: 8 minutes 1 seconds

A. Experimental conditions.

Phantom File	sam_direct_droit2_surf8mm.txt			
Phantom	Right head			
Device Position	Cheek			
Band	GSM850			
Channels	High			
Signal	GSM			

B. SAR Measurement Results

Frequency (MHz)	848.800000
Relative permittivity (real part)	41.675999
Relative permittivity	19.120001
Conductivity (S/m)	0.894409
Power drift (%)	-0.520000
Ambient Temperature:	22.7°C
Liquid Temperature:	22.8°C
ConvF:	28.479,25.214,27.196
Crest factor:	1:8

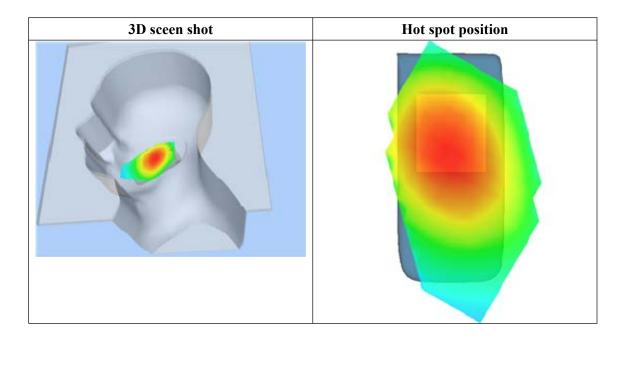




Maximum location: X=-34.00, Y=-18.00

SAR 10g (W/Kg)	0.551738		
SAR 1g (W/Kg)	0.713791		

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	0.7405	0.6174	0.4984	0.4253	0.3454	0.3010
	SAR	, Z Axis	s Scan	(X = −3¢	4, Y = -	-18)	
	0.7- 0.7-						
	0.6-						
	(³) ³ , ²		$+ \mathbb{N}$				
	er 0.4-		+ $+$ $+$				
	0.3-						
	0.02	. 5 5. 0 7. 51		20.0 (mm)	25.0 30	.0 35.0	





Type: Phone measurement (Complete) Area scan resolution: dx=8mm,dy=8mm Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm Date of measurement: 28/7/2012 Measurement duration: 7 minutes 39 seconds

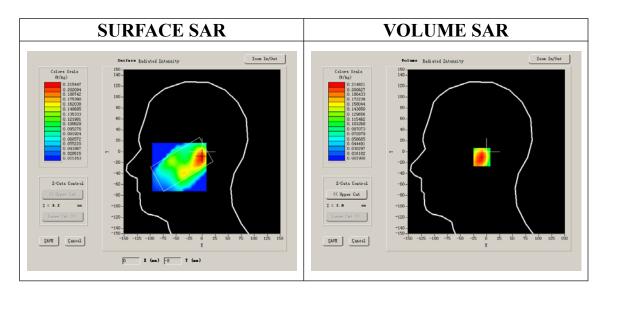
A. Experimental conditions.

Phantom File	sam_direct_droit2_surf8mm.txt			
Phantom	Right head			
Device Position	Tilt			
Band	GSM850			
Channels	Middle			
Signal GSM				

B. SAR Measurement Results

Middle Band SAR (Channel 190):

Frequency (MHz)	836.600000			
Relative permittivity (real part)	41.675999			
Relative permittivity	19.120001			
Conductivity (S/m)	0.894409			
Power drift (%)	-0.480000			
Ambient Temperature:	22.7°C			
Liquid Temperature:	22.8°C			
ConvF:	28.479,25.214,27.196			
Crest factor:	1:8			

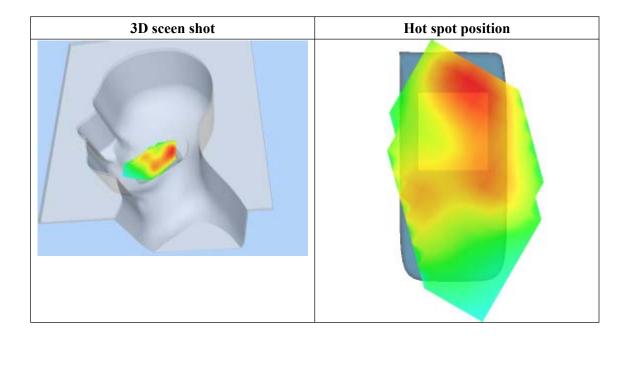




Maximum location: X=-1.00, Y=-10.00

SAR 10g (W/Kg)	0.114175		
SAR 1g (W/Kg)	0.205243		

Z (mm) SAR (W/Kg)	0.00	4.00 0.2148	9.00 0.1191	14.00 0.0648	19.00 0.0356	24.00 0.0198	29.00 0.0112
	SAF	R, Z Axi	s Scan	$(\mathbf{X} = -1)$	y = -3	10)	
	0.215-						
	0. 175 -						
	_ 0. 150	+ $+$ $+$					
	0.125						
	문 0.100	+ $+$ $+$					
	요 0.100 중 0.075						
	0.050	+ $+$ $+$					
	0.025 -	+ $+$ $+$					
	0.005 -						
	0.0	2.5 5.0 7.5		0 20.0 Z (mm)	25.0 30	.0 35.0	





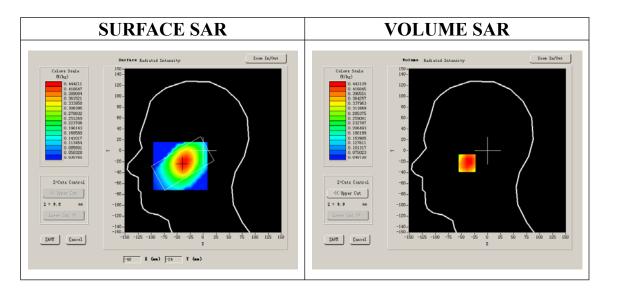
Type: Phone measurement (Complete) Area scan resolution: dx=8mm,dy=8mm Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm Date of measurement: 28/7/2012 Measurement duration: 7 minutes 39 seconds

A. Experimental conditions.

Phantom File	sam_direct_droit2_surf8mm.txt			
Phantom	Right head			
Device Position	Tilt			
Band	GSM850			
Channels	High			
Signal	GSM			

B. SAR Measurement Results

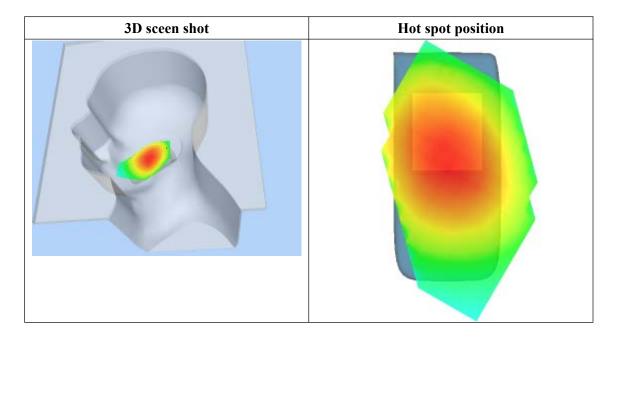
Frequency (MHz)	848.800000
Relative permittivity (real part)	41.675999
Relative permittivity	19.120001
Conductivity (S/m)	0.894409
Power drift (%)	-0.510000
Ambient Temperature:	22.7°C
Liquid Temperature:	22.8°C
ConvF:	28.479,25.214,27.196
Crest factor:	1:8





SAR 10g (W/Kg) 0.090112 SAR 1g (W/Kg) 0.164502 Z Axis Scan Z (mm) 0.00 4.00 9.00 14.00 19.00 24.00 29.00 SAR 0.0000 0.1714 0.0943 0.0502 0.0275 0.0136 0.0087 (W/Kg) SAR, Z Axis Scan (X = -3, Y = -20) 0.17-0.14-0.12- (\mathbb{W}/k_g) 0.10-0.08-0.00-80.06-0.04-0.02 0.00-ļ 30. 0 35.0 0.0 2.5 5.0 7.510.0 15.0 20.0 25.0 Z (mm)

Maximum location: X=-3.00, Y=-20.00





Type: Phone measurement (Complete) Area scan resolution: dx=8mm,dy=8mm Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm Date of measurement: 28/7/2012 Measurement duration: 8 minutes 0 seconds

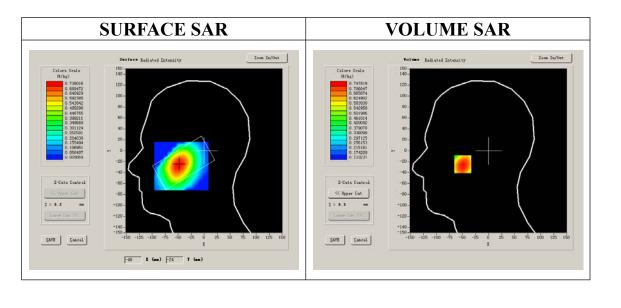
A. Experimental conditions.

Phantom File	sam_direct_droit2_surf8mm.txt			
Phantom	Left head			
Device Position	Cheek			
Band	GSM850			
Channels	Middle			
Signal	GSM			

B. SAR Measurement Results

Middle Band SAR (Channel 190):

Frequency (MHz)	836.600000
Relative permittivity (real part)	41.675999
Relative permittivity	19.120001
Conductivity (S/m)	0.894409
Power drift (%)	-0.170000
Ambient Temperature:	22.7°C
Liquid Temperature:	22.8°C
ConvF:	28.479,25.214,27.196
Crest factor:	1:8

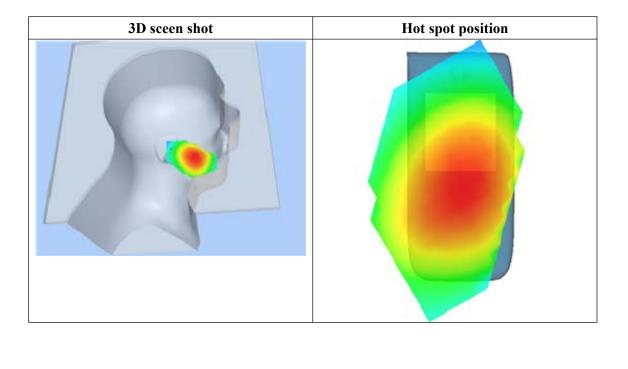




Maximum location: X=-49.00, Y=-25.00

SAR 10g (W/Kg)	0.561016
SAR 1g (W/Kg)	0.718724

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	0.7478	0.6358	0.5291	0.4235	0.3460	0.2915
	SAR	, Z Axis	s Scan	(X = -49	9, Y = -	-25)	
	0.7-						
	0.7-		+ $+$ $+$				
	0.6-						
	() ¥ 2€ 0.5-		\mid \mid \mid				
	₩ 0.4-						
	0.3-						
	0.02	.5 5.0 7.51			25.0 30	.0 35.0	
			2	(mm)			





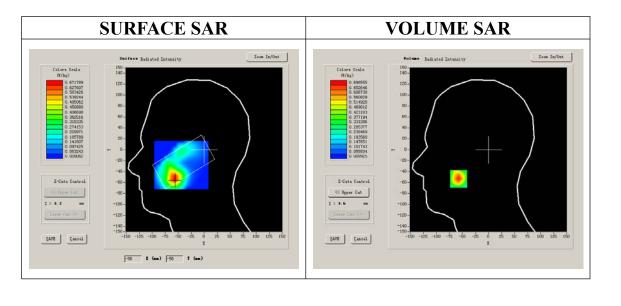
Type: Phone measurement (Complete) Area scan resolution: dx=8mm,dy=8mm Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm Date of measurement: 28/7/2012 Measurement duration: 8 minutes 0 seconds

A. Experimental conditions.

Phantom File	sam_direct_droit2_surf8mm.txt			
Phantom	Left head			
Device Position	Cheek			
Band	GSM850			
Channels	High			
Signal	GSM			

B. SAR Measurement Results

Frequency (MHz)	848.800000
Relative permittivity (real part)	41.675999
Relative permittivity	19.120001
Conductivity (S/m)	0.894409
Power drift (%)	-1.810000
Ambient Temperature:	22.7°C
Liquid Temperature:	22.8°C
ConvF:	28.479,25.214,27.196
Crest factor:	1:8

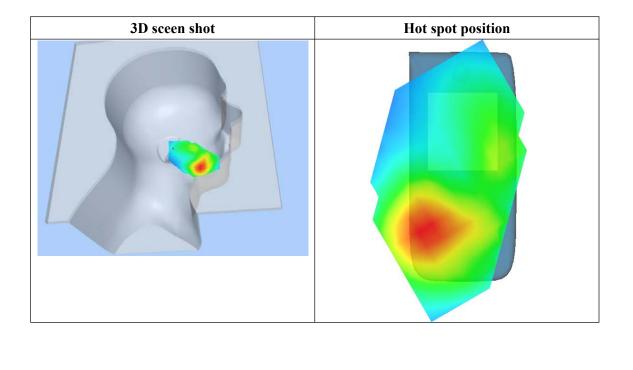




Maximum location: X=-57.00, Y=-53.00

SAR 10g (W/Kg)	0.347849
SAR 1g (W/Kg)	0.645669

	0.6986	0.3922	0.2218	0.1278	0.0766	0.0455
SAR,	Z Axis	s Scan	(X = -51	7, ¥ = -	-53)	
0. 7 -						
0.6-						
0.5-						
0.4-	-					
		\mathbb{N}				
0.2-						
0.1-						
0.0-						
0.02.	5 5.0 7.51			25.0 30.	.0 35.0	
	0.7- 0.6- 0.5- 0.4- 0.3- 0.2- 0.1- 0.0-	0.7- 0.6- 0.5- 0.4- 0.3- 0.2- 0.1- 0.0-	0.7- 0.6- 0.5- 0.4- 0.3- 0.2- 0.1- 0.0 2.5 5.0 7.510.0 15.0	0.7- 0.6- 0.5- 0.4- 0.3- 0.2- 0.1- 0.0-	0.7- 0.6- 0.5- 0.4- 0.3- 0.2- 0.1- 0.02.5 5.0 7.510.0 15.0 20.0 25.0 30	0.6- 0.5- 0.4- 0.3- 0.2- 0.1- 0.0 2.5 5.0 7.510.0 15.0 20.0 25.0 30.0 35.0





Type: Phone measurement (Complete) Area scan resolution: dx=8mm,dy=8mm Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm Date of measurement: 28/7/2012 Measurement duration: 7 minutes 38 seconds

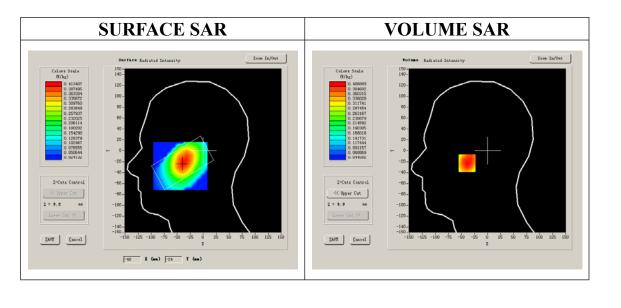
A. Experimental conditions.

Phantom File	sam_direct_droit2_surf8mm.txt			
Phantom	Left head			
Device Position	Tilt			
Band	GSM850			
Channels	Middle			
Signal	GSM			

B. SAR Measurement Results

Middle Band SAR (Channel 190):

Frequency (MHz)	836.600000
Relative permittivity (real part)	41.675999
Relative permittivity	19.120001
Conductivity (S/m)	0.894409
Power drift (%)	-0.580000
Ambient Temperature:	22.7°C
Liquid Temperature:	22.8°C
ConvF:	28.479,25.214,27.196
Crest factor:	1:8

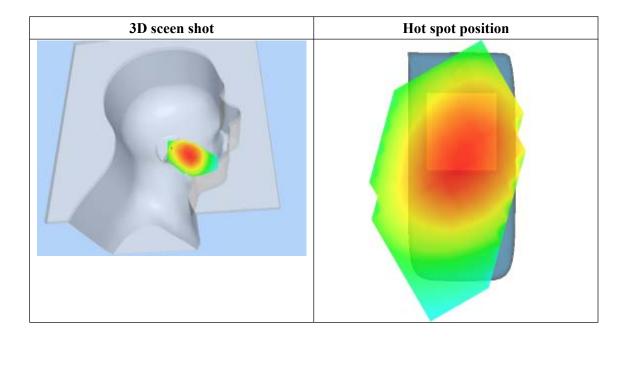




Maximum location: X=-22.00, Y=7.00

SAR 10g (W/Kg)	0.153770
SAR 1g (W/Kg)	0.271938

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.2825	0.1576	0.0893	0.0490	0.0276	0.0147
(W/Kg)							
	SI	AR, Z Ax	is Scan	(X = -)	22, Y =	7)	
	0. 28						
	0.25-	+					
	0.20 % * * * *						
	Ê 0.15-						
	₩ 0.10-						
	01 0.10-						
	0.05						
	0.01-					┝╼┶┶╺	
	0.0	2.5 5.0 7.5			25.0 30	i.o 35i.o	
_				Z (mm)			
_							





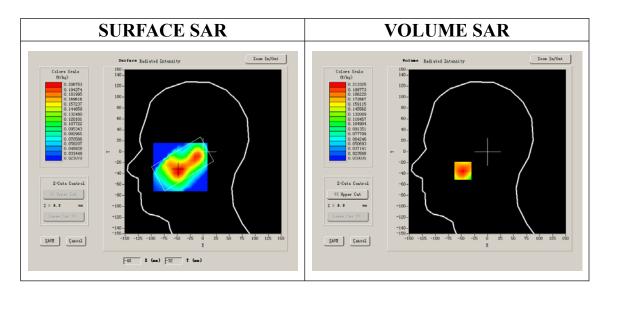
Type: Phone measurement (Complete) Area scan resolution: dx=8mm,dy=8mm Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm Date of measurement: 28/7/2012 Measurement duration: 7 minutes 38 seconds

A. Experimental conditions.

Phantom File	sam_direct_droit2_surf8mm.txt
Phantom	Left head
Device Position	Tilt
Band	GSM850
Channels	High
Signal	GSM

B. SAR Measurement Results

Frequency (MHz)	848.800000
Relative permittivity (real part)	41.675999
Relative permittivity	19.120001
Conductivity (S/m)	0.894409
Power drift (%)	-1.620000
Ambient Temperature:	22.7°C
Liquid Temperature:	22.8°C
ConvF:	28.479,25.214,27.196
Crest factor:	1:8



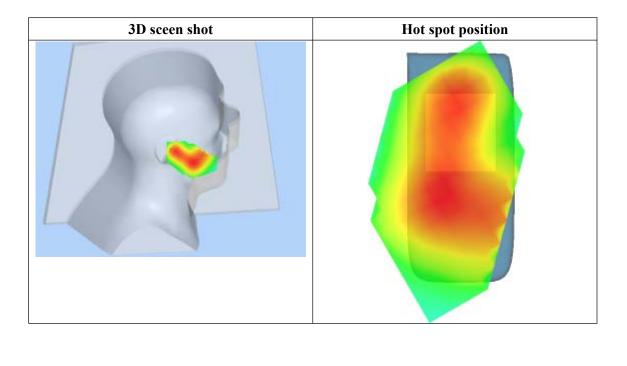


Maximum location: X=-47.00, Y=-35.00

SAR 10g (W/Kg)	0.124184
SAR 1g (W/Kg)	0.204286

Z Axis Scan

Z (mm) SAR (W/Kg)	0.00 0.0000	4.00 0.2133	9.00 0.1279	14.00 0.0808	19.00 0.0533	24.00 0.0320	29.00 0.0197
	SAR	, Z Axi	s Scan	(X = -47	7, Y = -	-35)	
	0. 175 0. 150 0. 125						
	0. 150						
	0.014 - 0.0	2.55.07.5		0 20.0 Z (mm)	25.0 30	.0 35.0	





Type: Phone measurement (Complete) Area scan resolution: dx=8mm,dy=8mm Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm Date of measurement: 28/7/2012 Measurement duration: 9 minutes 6 seconds

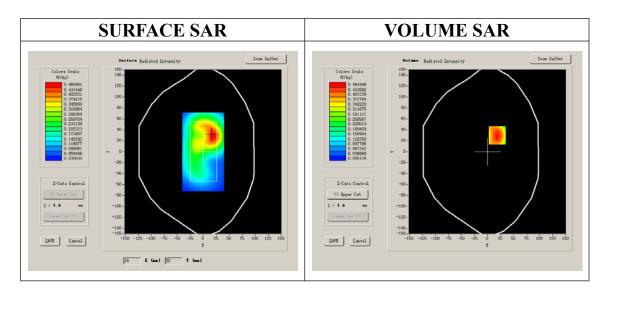
A. Experimental conditions.

Phantom File	surf_sam_plan.txt
Phantom	Validation plane
Device Position	Body
Band	GSM850
Channels	Middle
Signal	GSM

B. SAR Measurement Results

Middle Band SAR (Channel 190):

Frequency (MHz)	836.600000
Relative permittivity (real part)	55.709999
Relative permittivity	21.284550
Conductivity (S/m)	0.980903
Power drift (%)	-0.520000
Ambient Temperature:	22.7°C
Liquid Temperature:	22.8°C
ConvF:	28.559, 25.681, 27.588
Crest factor:	1:8

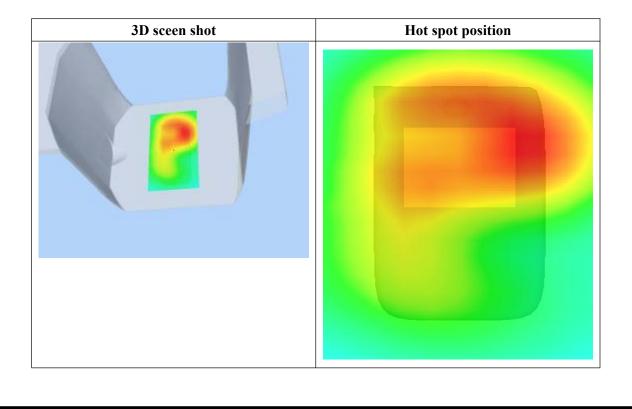




Maximum location: X=19.00, Y=30.00

SAR 10g (W/Kg)	0.264184
SAR 1g (W/Kg)	0.481997

Z (mm) SAR (W/Kg)	0.00 0.0000	4.00 0.5057	9.00 0.2553	14.00 0.1525	19.00 0.0647	24.00 0.0331	29.00 0.0188
	0.5- 0.4- (37) 0.3- 0.2- 0.1- 0.0-	R , Z Ax	0.0 15.0		9, Y = 3		1





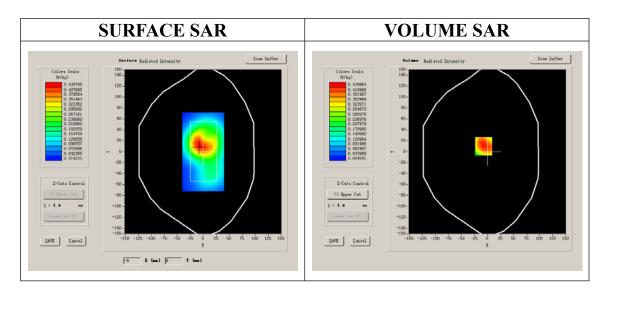
Type: Phone measurement (Complete) Area scan resolution: dx=8mm,dy=8mm Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm Date of measurement: 28/7/2012 Measurement duration: 9 minutes 8 seconds

A. Experimental conditions.

Phantom File	surf_sam_plan.txt
Phantom	Validation plane
Device Position	Body
Band	GSM850
Channels	High
Signal	GSM

B. SAR Measurement Results

Frequency (MHz)	848.800000
Relative permittivity (real part)	55.709999
Relative permittivity	21.284550
Conductivity (S/m)	0.980903
Power drift (%)	-1.320000
Ambient Temperature:	22.7°C
Liquid Temperature:	22.8°C
ConvF:	28.559, 25.681, 27.588
Crest factor:	1:8

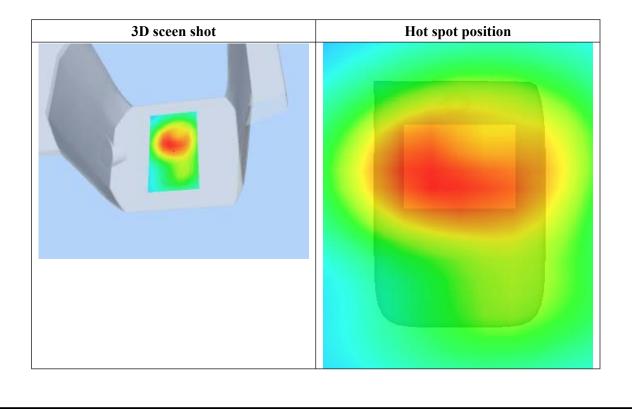




Maximum location: X=-7.00, Y=10.00

SAR 10g (W/Kg)	0.250638
SAR 1g (W/Kg)	0.461141

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.4791	0.2380	0.1197	0.0600	0.0294	0.0169
(W/Kg)							
	SA	R, Z Ax	is Scan	$(\mathbf{X} = -\mathbf{X})$	7, ¥ = 1	.0)	
	0.5-						
	0.5-						
	0.4-	$+ \mathbf{N} +$	+ $+$ $+$	+ + +			
	_	N					
	(ஜ)0.3- —						
	8						
	8 0.2-						
	0.1-						
	0.0-						
	0.02	5 5.0 7.51			25.0 30	.0 35.0	
			Z	(mm)			





Type: Phone measurement (Complete) Area scan resolution: dx=8mm,dy=8mm Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm Date of measurement: 28/7/2012 Measurement duration: 9 minutes 6 seconds

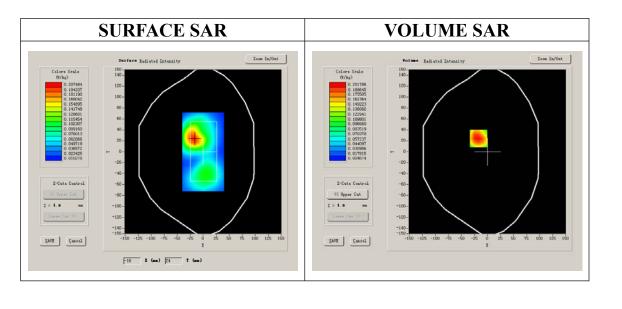
A. Experimental conditions.

Phantom File	surf_sam_plan.txt
Phantom	Validation plane
Device Position	Body
Band	GSM850
Channels	Middle
Signal	GSM

B. SAR Measurement Results

Middle Band SAR (Channel 190):

Frequency (MHz)	836.600000
Relative permittivity (real part)	55.709999
Relative permittivity	21.284550
Conductivity (S/m)	0.980903
Power drift (%)	-0.650000
Ambient Temperature:	22.7°C
Liquid Temperature:	22.8°C
ConvF:	28.559, 25.681, 27.588
Crest factor:	1:8

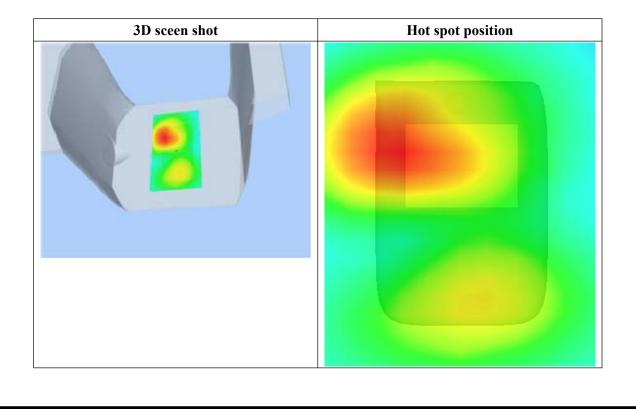




Maximum location: X=-17.00, Y=24.00

SAR 10g (W/Kg)	0.124256
SAR 1g (W/Kg)	0.211871

0.00	4.00 0.2197	9.00 0.1322	14.00 0.0806	19.00 0.0465	24.00 0.0297	29.00 0.0163
SAF	R, Z Axi	is Scan	(X = -1	7, Y = 3	24)	
0.220-						
0.175-	+ N					
എ 0. 150 - 🗕						
🚆 0. 125 - 🗕		\mathbf{N}				
៊ី 0.075						
0.050						
0.012-	2 5 5 0 7 9	510.0 15		25.0 30	0 35 0	
0.0	2.00.01.			20.0 00	.0 .0.0	
	0.0000 SAF 0.220 - 0.200 - 0.175 - 0.150 - 0.125 - 0.100 - 0.075 - 0.050 - 0.050 -	0.0000 0.2197 SAR, Z Axi 0.220- 0.200- 0.175- 0.150- 0.125- 0.100- 0.075- 0.050- 0.012-	0.0000 0.2197 0.1322 SAR, Z Axis Scan 0.220- 0.200- 0.175- 0.150- 0.125- 0.100- 0.075- 0.050- 0.012- 0.02.55.07.510.0 15.	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{array}{c c c c c c c c c c c c c c c c c c c $





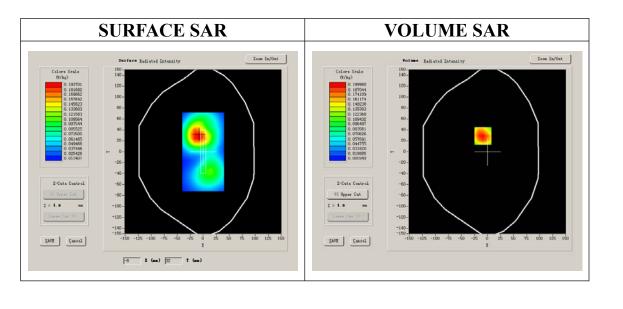
Type: Phone measurement (Complete) Area scan resolution: dx=8mm,dy=8mm Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm Date of measurement: 28/7/2012 Measurement duration: 9 minutes 8 seconds

A. Experimental conditions.

Phantom File	surf_sam_plan.txt			
Phantom	Validation plane			
Device Position	Body			
Band	GSM850			
Channels	High			
Signal	GSM			

B. SAR Measurement Results

Frequency (MHz)	848.800000
Relative permittivity (real part)	55.709999
Relative permittivity	21.284550
Conductivity (S/m)	0.980903
Power drift (%)	-0.290000
Ambient Temperature:	22.7°C
Liquid Temperature:	22.8°C
ConvF:	28.559, 25.681, 27.588
Crest factor:	1:8

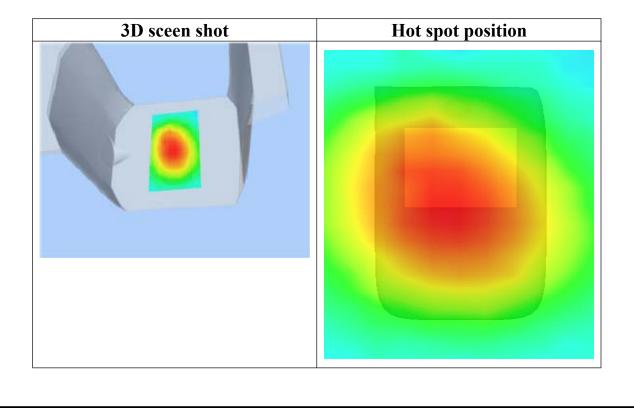




Maximum location: X=-9.00, Y=29.00

SAR 10g (W/Kg)	0.122451
SAR 1g (W/Kg)	0.210156

					24.00	29.00
0.0000	0.2178	0.1278	0.0763	0.0459	0.0296	0.0172
	R, Z Ax	is Scan	(X = -9	9, Y = 2	29)	
0.218-	+					
0. 175						
_ 0. 150 –	+					
0.125		\mathbf{N}				
0.100						
⁵ 0.075 – –						
0. 050						
0. 012 - 0. 0	2.5 5.0 7.5	510.0 15.	0 20.0	25.0 30	.0 35.0	
		:	Z (mm)			
	SA 0. 218 - 0. 200 - 0. 175 - 0. 150 - 0. 125 - 0. 100 - 0. 075 - 0. 050 - 0. 012 -	SAR, Z Ax 0.218- 0.200- 0.175- 0.150- 0.125- 0.100- 0.075- 0.050- 0.012-	SAR, Z Axis Scan	SAR, Z Axis Scan (X = -9	SAR, Z Axis Scan $(X = -9, Y = 2)$ 0.218 0.200 0.175 0.150 0.150 0.125 0.100 0.075 0.050 0.012 0.02.5 5.0 7.510.0 15.0 20.0 25.0 30	SAR, Z Axis Scan $(X = -9, Y = 29)$ 0.218 0.200 0.175 0.150 0.125 0.125 0.100 0.075 0.050 0.012





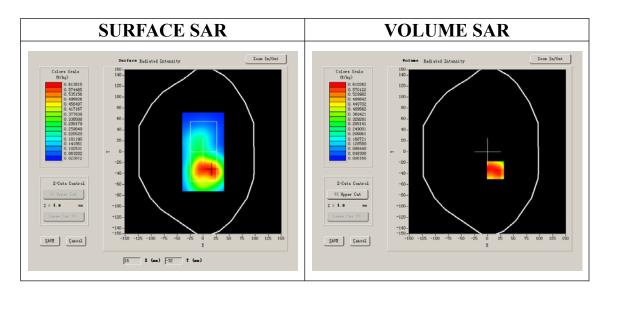
Type: Phone measurement (Complete) Area scan resolution: dx=8mm,dy=8mm Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm Date of measurement: 28/7/2012 Measurement duration: 9 minutes 7 seconds

A. Experimental conditions.

Phantom File	surf_sam_plan.txt			
Phantom	Validation plane			
Device Position	Body			
Band	GSM850			
Channels	High			
Signal	GPRS (2 uplink slots)			

B. SAR Measurement Results

Frequency (MHz)	848.800000
Relative permittivity (real part)	55.709999
Relative permittivity	21.284550
Conductivity (S/m)	0.980903
Power drift (%)	0.120000
Ambient Temperature:	22.7°C
Liquid Temperature:	22.8°C
ConvF:	28.559, 25.681, 27.588
Crest factor:	1:2

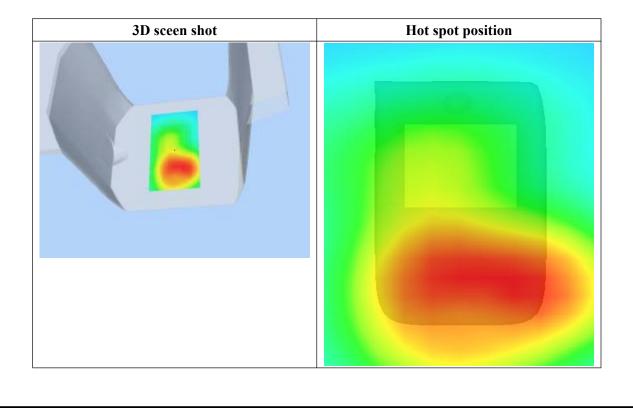




Maximum location: X=15.00, Y=-34.00

SAR 10g (W/Kg)	0.356468
SAR 1g (W/Kg)	0.642300

Z (mm) SAR (W/Kg)	0.00 0.0000	4.00 0.6645	9.00 0.3397	14.00 0.1715	19.00 0.0899	24.00 0.0453	29.00 0.0235
	0.7- 0.6- 0.5- 0.4- 0.3- 0.2- 0.1- 0.0-	R, Z Axi	0.0 15.0		Y = -		





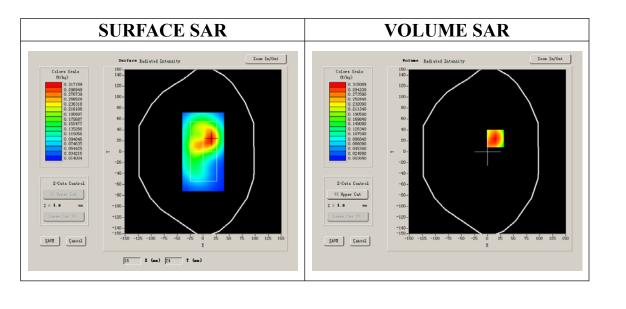
Type: Phone measurement (Complete) Area scan resolution: dx=8mm,dy=8mm Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm Date of measurement: 28/7/2012 Measurement duration: 9 minutes 8 seconds

A. Experimental conditions.

Phantom File	surf_sam_plan.txt
Phantom	Validation plane
Device Position	Body
Band	GSM850
Channels	High
Signal	GPRS (2 uplink slots)

B. SAR Measurement Results

Frequency (MHz)	848.800000
Relative permittivity (real part)	55.709999
Relative permittivity	21.284550
Conductivity (S/m)	0.980903
Power drift (%)	-0.770000
Ambient Temperature:	22.7°C
Liquid Temperature:	22.8°C
ConvF:	28.559, 25.681, 27.588
Crest factor:	1:4

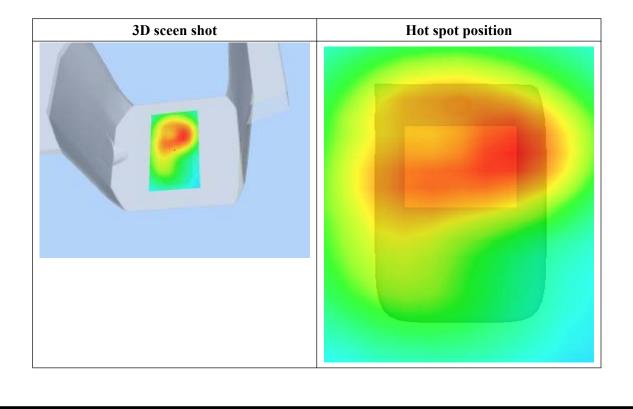




Maximum location: X=15.00, Y=24.00

SAR 10g (W/Kg)	0.178412
SAR 1g (W/Kg)	0.329215

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	0.3431	0.1689	0.0864	0.0441	0.0223	0.0127
	0.34 - 0.30 - 0.25 - 0.25 - 0.20 - 0.15 - 0.10 - 0.05 - 0.01 -	R, Z Ax	10.0 15.0	(X = 19		24)	





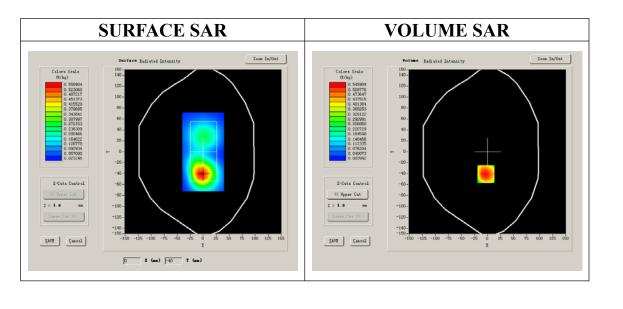
Type: Phone measurement (Complete) Area scan resolution: dx=8mm,dy=8mm Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm Date of measurement: 28/7/2012 Measurement duration: 9 minutes 4 seconds

A. Experimental conditions.

Phantom File	surf_sam_plan.txt
Phantom	Validation plane
Device Position	Body
Band	GSM850
Channels	High
Signal	EDGE

B. SAR Measurement Results

Frequency (MHz)	848.800000
Relative permittivity (real part)	55.709999
Relative permittivity	21.284550
Conductivity (S/m)	0.980903
Power drift (%)	-0.440000
Ambient Temperature:	22.7°C
Liquid Temperature:	22.8°C
ConvF:	28.559, 25.681, 27.588
Crest factor:	1:2

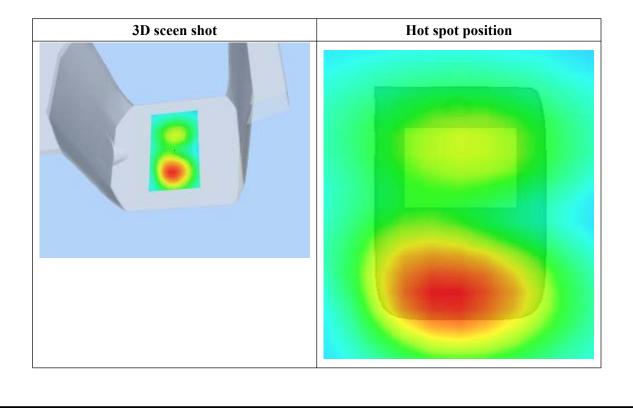




Maximum location: X=-3.00, Y=-41.00

SAR 10g (W/Kg)	0.304311
SAR 1g (W/Kg)	0.578816

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	0.5944	0.3024	0.1426	0.0704	0.0373	0.0188
	SAF	R, Z Axi	s Scan	(X = −3	, Y = -	41)	
	0.6-						
	0.5-		+ $+$ $+$	+ + +			
	(j) 0.4- ⊯ 8 0.3-	+	+ $+$ $+$				
	¥ 0.2-		\mathbb{N}^+	+ + +			
	0.1-						
	0.0-						
	0.02	.5 5.0 7.51		20.0 (mm)	25.0 30	.0 35.0	
_							





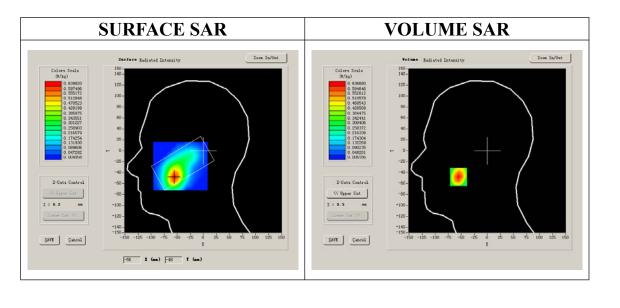
Type: Phone measurement (Complete) Area scan resolution: dx=8mm,dy=8mm Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm Date of measurement:28/7/2012 Measurement duration: 8 minutes 13 seconds

A. Experimental conditions.

Phantom File	sam_direct_droit2_surf8mm.txt
Phantom	Right head
Device Position	Cheek
Band	GSM1900
Channels	High
Signal	GSM

B. SAR Measurement Results

Frequency (MHz)	1909.800000
Relative permittivity (real part)	38.509998
Relative permittivity	13.750000
Conductivity (S/m)	1.436111
Power drift (%)	2.040000
Ambient Temperature:	22.6°C
Liquid Temperature:	22.7°C
ConvF:	40.136,34.843,38.721
Crest factor:	1:8

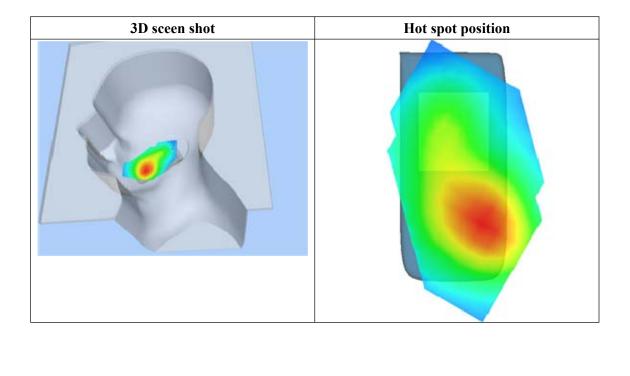




Maximum location: X=-55.00, Y=-48.00

SAR 10g (W/Kg)	0.324157
SAR 1g (W/Kg)	0.603270

Z (mm) SAR (W/Kg)	0.00 0.0000	4.00 0.6367	9.00 0.3508	14.00 0.1843	19.00 0.1072	24.00 0.0596	29.00 0.0348
	SAR	, Z Axi	e Scan	(x = –5∙	5 Y = -	-48)	
	0.6-	, <i>D</i> NAI	s bean	(22 - 0.	, I –		
	0.0-						
	0.5-						
	ୁଞ୍ଚ 0.4			+ + +			
	(29,0.4- (29,0.3- (29,0.3- 1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,						
	8 0.2-						
	0.1-						
	0.0-				╺╼┿╼╼┾╼╼		
		5 5.0 7.51			25.0 30	.0 35.0	
_			Ζ	(mm)			





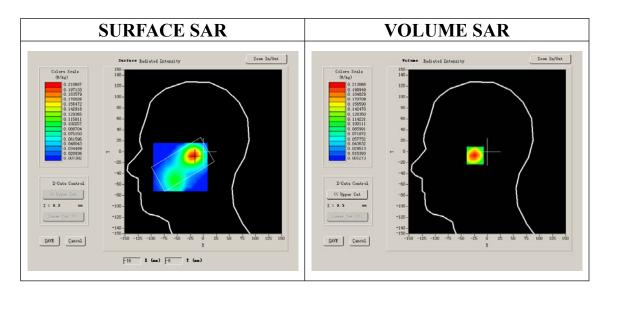
Type: Phone measurement (Complete) Area scan resolution: dx=8mm,dy=8mm Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm Date of measurement: 28/7/2012 Measurement duration: 7 minutes 27 seconds

A. Experimental conditions.

Phantom File	sam_direct_droit2_surf8mm.txt			
Phantom	Right head			
Device Position	Tilt			
Band	GSM1900			
Channels	High			
Signal	GSM			

B. SAR Measurement Results

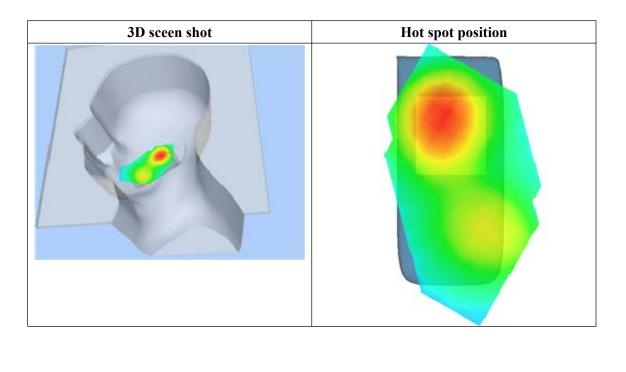
Frequency (MHz)	1909.800000
Relative permittivity (real part)	38.509998
Relative permittivity	13.750000
Conductivity (S/m)	1.436111
Power drift (%)	-1.190000
Ambient Temperature:	22.6°C
Liquid Temperature:	22.7°C
ConvF:	40.136,34.843,38.721
Crest factor:	1:8





SAR 10g (W/Kg) SAR 1g (W/Kg)			0.111855						
			0.202062						
Z Axis Scan									
Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00		
SAR (W/Kg)	0.0000	0.2131	0.1232	0.0747	0.0452	0.0246	0.0123		
	GYE) 7 4	a Soor	(X = -1	o v –	_7)			
	0.213-	, 2 AXI	s scan	(X – –I	0, 1 -	-1) 			
	0. 175 -	$+ \times +$							
	0.150								
-	0. 150								
•	g 0.100-								
i									
	0.050								
	0.009-								
	0.0	2.5 5.0 7.5		0 20.0 Z(mm)	25.0 30	.0 35.0			
				2 (MM)					

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





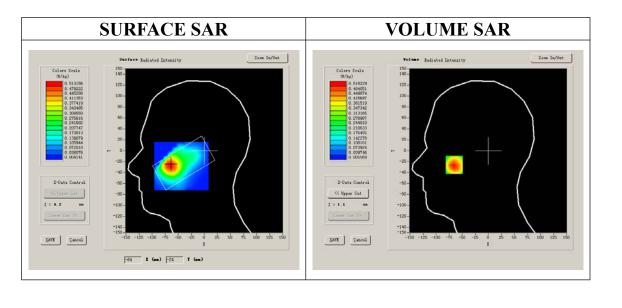
Type: Phone measurement (Complete) Area scan resolution: dx=8mm,dy=8mm Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm Date of measurement: 28/7/2012 Measurement duration: 8 minutes 8 seconds

A. Experimental conditions.

Phantom File	sam_direct_droit2_surf8mm.txt			
Phantom	Left head			
Device Position	Cheek			
Band	GSM1900			
Channels	High			
Signal	GSM			

B. SAR Measurement Results

Frequency (MHz)	1909.800000
52.540001	38.509998
14.070000	13.750000
1.469533	1.436111
Power drift (%)	0.590000
Ambient Temperature	22.6°C
Liquid Temperature	22.7°C
ConvF:	40.136,34.843,38.721
Crest factor:	1:8



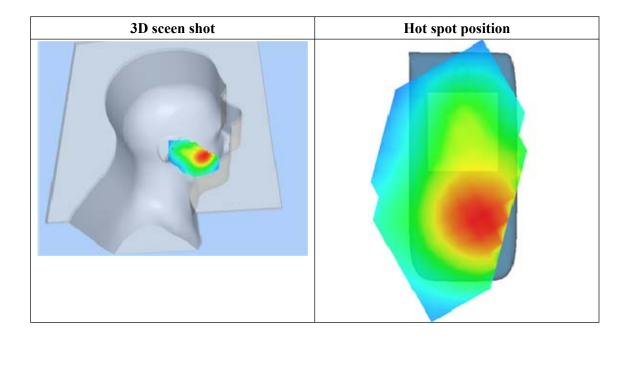


Maximum location: X=-65.00, Y=-26.00

SAR 10g (W/Kg)	0.278519
SAR 1g (W/Kg)	0.494751

Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	0.5182	0.2939	0.1735	0.0971	0.0540	0.0324
		, Z Axi	s Scan	(X = -6	5, ¥ = ·	-26)	
	0.5-						
	0.4-						
-	ĝ	$ \rangle$					
	¥ 0.2-						
	0.1-		+				
	0.0-	5 5.0 7.51	0.0 15.0	20.0	25.0 30	.0 35.0	
	0.0 2			(mm)	20.0 00		





Type: Phone measurement (Complete) Area scan resolution: dx=8mm,dy=8mm Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm Date of measurement: 28/7/2012 Measurement duration: 7 minutes 24 seconds

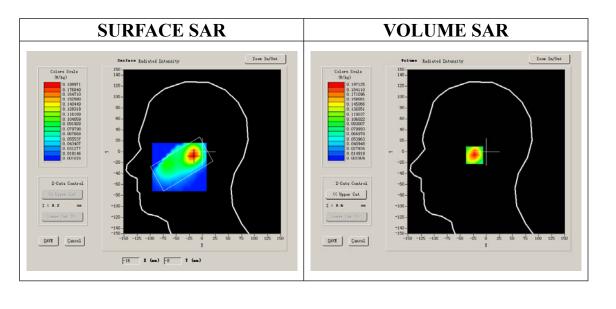
A. Experimental conditions.

Phantom File	sam_direct_droit2_surf8mm.txt			
Phantom	Left head			
Device Position	Tilt			
Band	GSM1900			
Channels	High			
Signal	GSM			

B. SAR Measurement Results

Higher Band SAR (Channel 810):

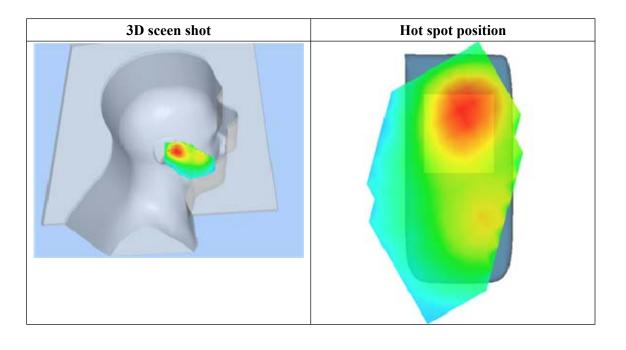
Frequency (MHz)	1909.800000
Relative permittivity (real part)	38.509998
Relative permittivity	13.750000
Conductivity (S/m)	1.436111
Power drift (%)	-0.150000
Ambient Temperature:	22.6°C
Liquid Temperature:	22.7°C
ConvF:	40.136,34.843,38.721
Crest factor:	1:8





SAR 10g (W/Kg)				0.100751 0.183236			
SAR 1g (W/Kg)							
			<u>Z Axi</u>	<u>s Scan</u>			
Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	0.1971	0.1140	0.0659	0.0340	0.0249	0.0124
	SAF	R, Z Axi	s Scan	(X = -1	7, Y =	-6)	
	0. 197 –						
0.175-							
	0.150	++					
	ୁହି 0.125- € 0.100-						
	g 0.075		+N				
	0.050-						
	0.025						
	0.0	2.55.07.5			25.0 30	.0 35.0	
				Z (mm)			

Maximum location: X=-17.00, Y=-6.00





Type: Phone measurement (Complete) Area scan resolution: dx=8mm,dy=8mm Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm Date of measurement: 28/7/2012 Measurement duration: 9 minutes 7 seconds

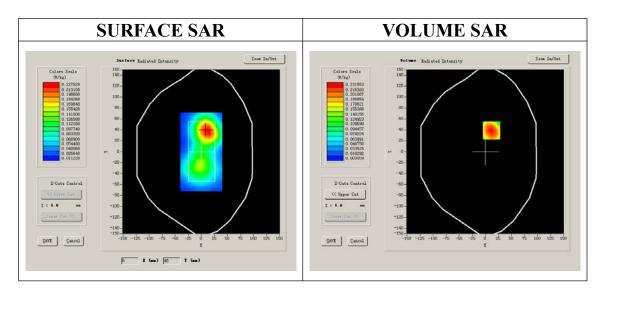
A. Experimental conditions.

Phantom File	surf_sam_plan.txt
Phantom	Validation plane
Device Position	Body
Band	GSM1900
Channels	High
Signal	GSM

B. SAR Measurement Results

Higher Band SAR (Channel 810):

Frequency (MHz)	1909.800000
Relative permittivity (real part)	52.548876
Relative permittivity	14.070000
Conductivity (S/m)	1.553978
Power drift (%)	-0.560000
Ambient Temperature:	22.6°C
Liquid Temperature:	22.7°C
ConvF:	40.625,34.773,38.535
Crest factor:	1:8

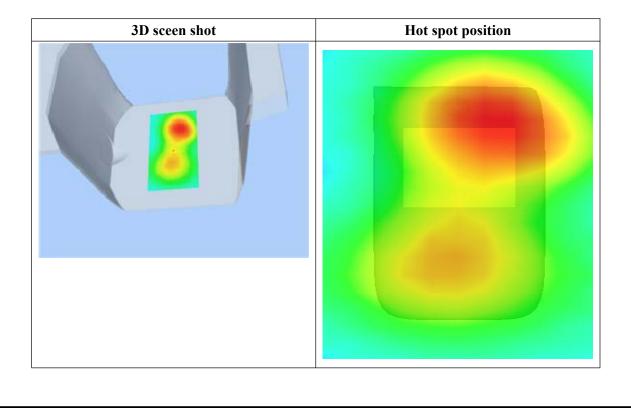




Maximum location: X=12.00, Y=39.00

SAR 10g (W/Kg)	0.135153
SAR 1g (W/Kg)	0.240931

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	0.2521	0.1392	0.0735	0.0359	0.0256	0.0129
	0. 25	R, Z Ax	is Scan	(X = 12	2, Y = 3	39)	
	0.01 - 0.0 :	2.55.07.5) 20.0 (mm)	25.0 30	.0 35.0	





Type: Phone measurement (Complete) Area scan resolution: dx=8mm,dy=8mm Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm Date of measurement: 28/7/2012 Measurement duration: 9 minutes 3 seconds

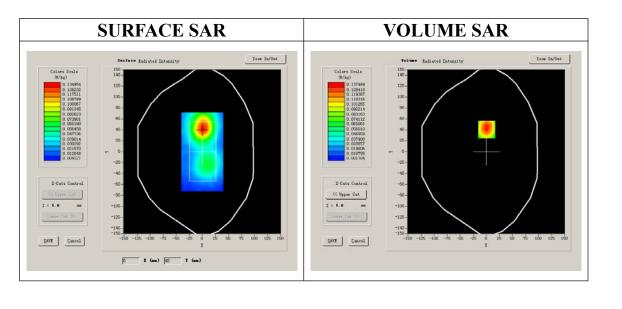
A. Experimental conditions.

Phantom File	surf_sam_plan.txt
Phantom	Validation plane
Device Position	Body
Band	GSM1900
Channels	High
Signal	GSM

B. SAR Measurement Results

Higher Band SAR (Channel 810):

Frequency (MHz)	1909.800000
Relative permittivity (real part)	52.548876
Relative permittivity	14.070000
Conductivity (S/m)	1.553978
Power drift (%)	0.970000
Ambient Temperature:	22.6°C
Liquid Temperature:	22.7°C
ConvF:	40.625,34.773,38.535
Crest factor:	1:8

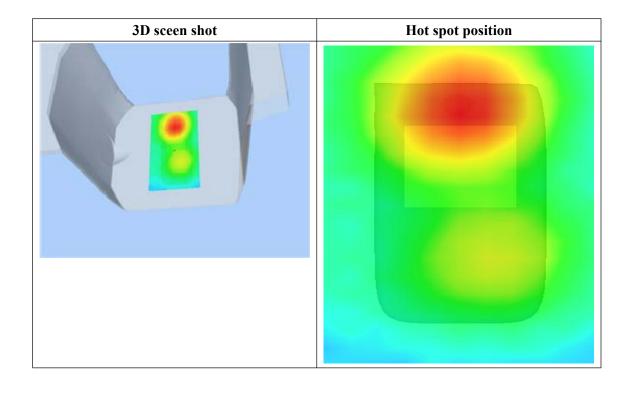




Maximum location: X=1.00, Y=41.00

SAR 10g (W/Kg)	0.079668
SAR 1g (W/Kg)	0.143619

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	0.1497	0.0787	0.0464	0.0254	0.0189	0.0072
	s	R Z Av	is Scan	(X = 1	¥ = 4	1)	
	0.15-				,		
		+					
	0.12						
	ິງ 0.10- ສິ ອີ 0.08-	++					
	뙰 0.06				_		
	0.04-		++				
	0.02-						
	0.0 :	2.5 5.0 7.5		D 20.0 Z(mm)	25.0 30	i.o 35.0	
_							





Type: Phone measurement (Complete) Area scan resolution: dx=8mm,dy=8mm Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm Date of measurement: 28/7/2012 Measurement duration: 9 minutes 8 seconds

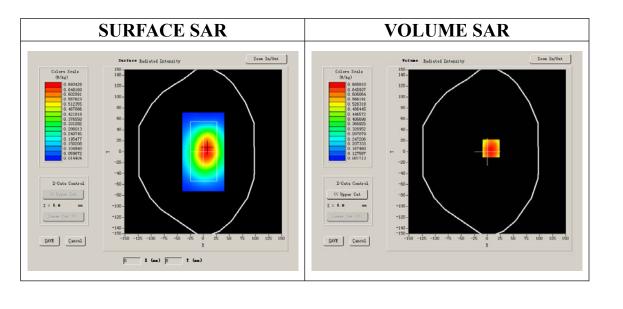
A. Experimental conditions.

Phantom File	surf_sam_plan.txt
Phantom	Validation plane
Device Position	Body
Band	GSM1900
Channels	High
Signal	GPRS (2 uplink slots)

B. SAR Measurement Results

Higher Band SAR (Channel 810):

Frequency (MHz)	1909.800049
Relative permittivity (real part)	52.548876
Relative permittivity	14.070000
Conductivity (S/m)	1.553978
Power drift (%)	-1.190000
Ambient Temperature:	22.6°C
Liquid Temperature:	22.7°C
ConvF:	40.625,34.773,38.535
Crest factor:	1:4

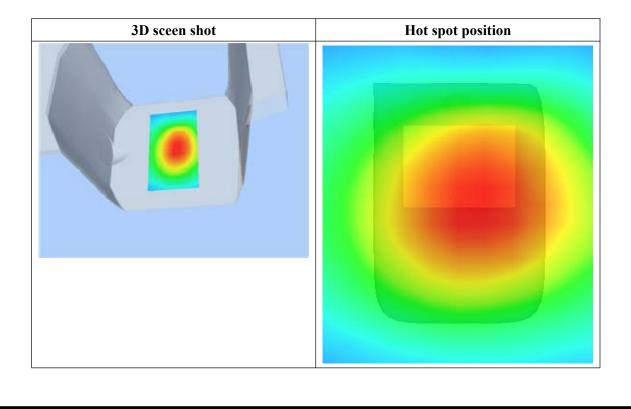




Maximum location: X=7.00, Y=6.00

SAR 10g (W/Kg)	0.527177
SAR 1g (W/Kg)	0.726593

Z (mm) SAR (W/Kg)	0.00 0.0000	4.00 0.7529	9.00 0.5785	14.00 0.4357	19.00 0.3279	24.00 0.2535	29.00 0.1879
	s	AR ZA	vis Scar	- (X = '	7, Y = 6	3	
	0.8-			. (A -	·, · - ·		
	0.7-						
	0.6-	$ \rangle$					
	ي ۲ 0.5-		\mathbb{N}^{+}				
	(³ 7, 0.5- (%) 845 845		\perp N				
	5 0.3						
	0.2-						
	0.1-	.5 5.0 7.51	0.0 15.0	20.0	25.0 30.	.0 35.0	
	0.02	.5 5.0 1.51		20.0 (mm)	23.0 30.	.0 33.0	





Type: Phone measurement (Complete) Area scan resolution: dx=8mm,dy=8mm Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm Date of measurement: 28/7/2012 Measurement duration: 9 minutes 10 seconds

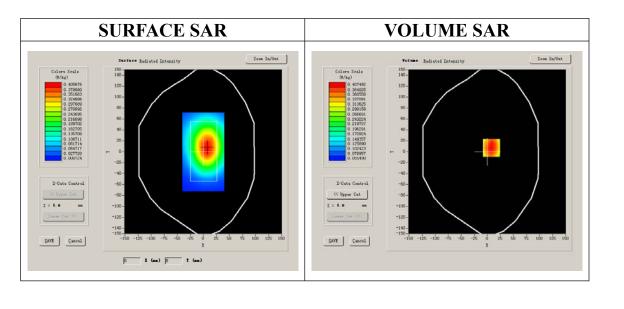
A. Experimental conditions.

Phantom File	surf_sam_plan.txt			
Phantom	Validation plane			
Device Position	Body			
Band	GSM1900			
Channels	High			
Signal	GPRS (2 uplink slots)			

B. SAR Measurement Results

Higher Band SAR (Channel 810):

Frequency (MHz)	1909.800049
Relative permittivity (real part)	52.548876
Relative permittivity	14.070000
Conductivity (S/m)	1.553978
Power drift (%)	-0.870000
Ambient Temperature:	22.6°C
Liquid Temperature:	22.7°C
ConvF:	40.625,34.773,38.535
Crest factor:	1:4





Maximum location: X=8.00, Y=7.00

SAR 10g (W/Kg)	0.309891
SAR 1g (W/Kg)	0.433300

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.4473	0.3490	0.2543	0.1912	0.1464	0.1105
(W/Kg)							
	S	AR, Z A	xis Scar	n (X = 3	8, Y = 7	r)	
	0.45-						
	0.40-						
	0.35-						
	ê						
	(² ¥) 0.30- ∭ 0.25- ¥¥ 0.20-						
	0. 15 -						
	0.13-						
	0.08-						
	0.03	2.5 5.0 7.5:) 20.0 :(mm)	25.0 30	.0 35.0	
				, (1007)			

3D sceen shot	Hot spot position



Type: Phone measurement (Complete) Area scan resolution: dx=8mm,dy=8mm Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm Date of measurement: 28/7/2012 Measurement duration: 9 minutes 7 seconds

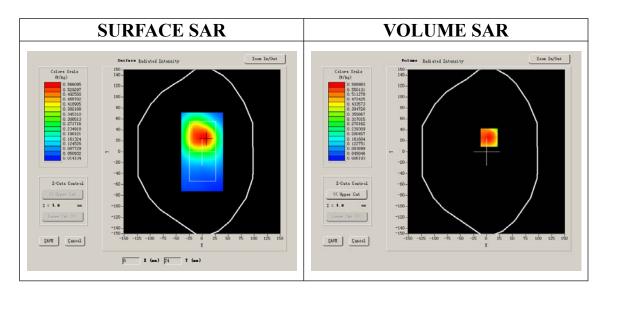
A. Experimental conditions.

Phantom File	surf_sam_plan.txt			
Phantom	Validation plane			
Device Position	Body			
Band	GSM1900			
Channels	High			
Signal	EDGE			

B. SAR Measurement Results

Higher Band SAR (Channel 810):

Frequency (MHz)	1909.800000
Relative permittivity (real part)	52.548876
Relative permittivity	14.070000
Conductivity (S/m)	1.553978
Power drift (%)	-2.820000
Ambient Temperature:	22.6°C
Liquid Temperature:	22.7°C
ConvF:	40.625,34.773,38.535
Crest factor:	1:2

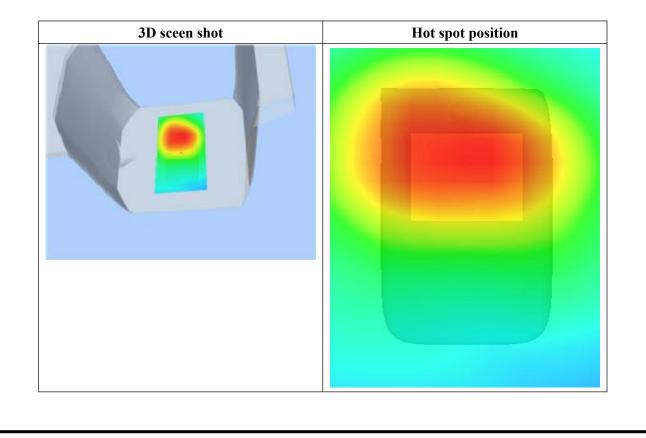




SAR 10g (W/Kg)				0.341236			
	SAR 1g	(W/Kg)		0.618008			
			<u>Z Axis</u>	<u>s Scan</u>			
Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.6413	0.3179	0.1598	0.0847	0.0431	0.0244
(W/Kg)							
	0.5-			+ $+$ $+$			
	0.5-						
	ୁର୍ଚ୍ଚ ୦. 4	++					
	(%)0.4- ∭2.0.3- 1988 0.3-						
	8 0.2-		\mathbb{N}^{\perp}				
	0.2- 0.1-						
	0.2-	.5 5.0 7.51	0.0 15.0	20.0	25.0 30.		

Z (mm)

Maximum location: X=5.00, Y=26.00





Type: Phone measurement (Complete) Area scan resolution: dx=8mm,dy=8mm Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm Date of measurement: 28/7/2012 Measurement duration: 7 minutes 59 seconds

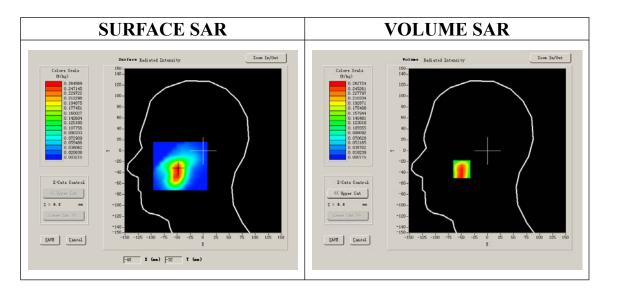
A. Experimental conditions.

Phantom File	sam_direct_droit2_surf8mm.txt			
Phantom	Right head			
Device Position	Cheek			
Band	WCDMA850			
Channels	Middle			
Signal	CDMA			

B. SAR Measurement Results

Middle Band SAR (Channel 4175):

Frequency (MHz)	835.000000
Relative permittivity (real part)	41.675999
Relative permittivity	19.120001
Conductivity (S/m)	0.894409
Power drift (%)	0.450000
Ambient Temperature:	22.7°C
Liquid Temperature:	22.8°C
ConvF:	28.479, 25.214, 27.196
Crest factor:	1:1

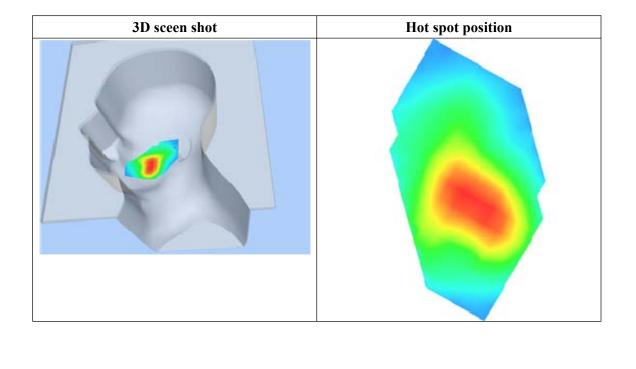




Maximum location: X=-49.00, Y=-34.00

SAR 10g (W/Kg)	0.130327
SAR 1g (W/Kg)	0.249887

Z (mm) SAR (W/Kg)	0.00	4.00 0.2570	9.00 0.1287	14.00 0.0604	19.00 0.0285	24.00 0.0138	29.00 0.0077
	0.26- 0.20-	, Z Axis	s Scan	(X = -49	9, Y = -	-34)	
	2 0.10 0.05 0.00 0.00 0.02	2.5 5.0 7.5) 20.0 2 (mm)	25.0 30	.0 35.0	





Type: Phone measurement (Complete) Area scan resolution: dx=8mm,dy=8mm Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm Date of measurement: 28/7/2012 Measurement duration: 7 minutes 41 seconds

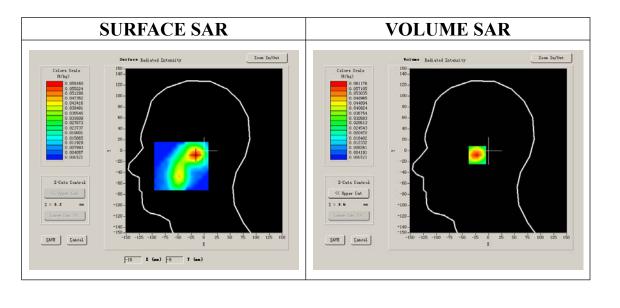
A. Experimental conditions.

Phantom File	sam_direct_droit2_surf8mm.txt			
Phantom	Right head			
Device Position	Tilt			
Band	WCDMA850			
Channels	Middle			
Signal	CDMA			

B. SAR Measurement Results

Middle Band SAR (Channel 4175):

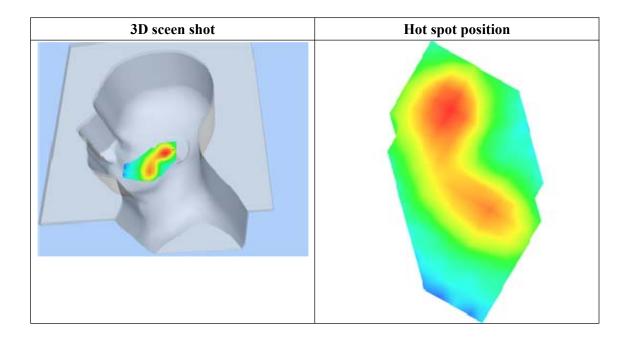
Frequency (MHz)	835.000000
Relative permittivity (real part)	41.675999
Relative permittivity	19.120001
Conductivity (S/m)	0.894409
Power drift (%)	0.020000
Ambient Temperature:	22.7°C
Liquid Temperature:	22.8°C
ConvF:	28.479, 25.214, 27.196
Crest factor:	1:1





SAR 10g (W/Kg) SAR 1g (W/Kg)			0.029243 0.057718				
			<u>Z Axi</u>	<u>s Scan</u>			
Z (mm) SAR (W/Kg)	0.00 0.0000	4.00 0.0612	9.00 0.0318	14.00 0.0146	19.00 0.0081	24.00 0.0038	29.00 0.0021
	0.06 - 0.05 - 0.04 - 0.03 - 0.02 - 0.01 - 0.00 -	2.55.07.5	10.0 15.1	(X = -1	6, Y =		

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





Type: Phone measurement (Complete) Area scan resolution: dx=8mm,dy=8mm Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm Date of measurement: 28/7/2012 Measurement duration: 7 minutes 53 seconds

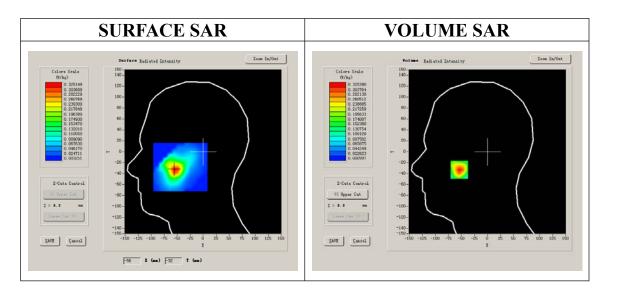
A. Experimental conditions.

Phantom File	sam_direct_droit2_surf8mm.txt			
Phantom	Left head			
Device Position	Cheek			
Band	WCDMA850			
Channels	Middle			
Signal	CDMA			

B. SAR Measurement Results

Middle Band SAR (Channel 4175):

Frequency (MHz)	835.000000
Relative permittivity (real part)	41.675999
Relative permittivity	19.120001
Conductivity (S/m)	0.894409
Power drift (%)	-0.500000
Ambient Temperature:	22.7°C
Liquid Temperature:	22.8°C
ConvF:	28.479, 25.214, 27.196
Crest factor:	1:1

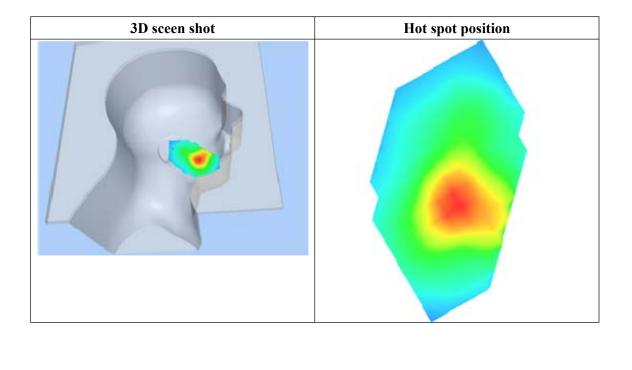




Maximum location: X=-54.00, Y=-33.00

SAR 10g (W/Kg)	0.148538
SAR 1g (W/Kg)	0.307296

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.3254	0.1526	0.0703	0.0314	0.0153	0.0083
(W/Kg)							
	SAR	, Z Axis	s Scan	(X = -54)	1, Y = -	-33)	
						1	
	0.33-						
	0.05	$ \mathbf{N} $					
	0.25-						
	꽃 0.20	++					
	(22) 0.20						
	8 0.10-						
	0.05-						
	0.00-				╺╼┾╼┿╼┷		
	0.02	2.55.07.5			25.0 30	.0 35.0	
			2	Z (mm)			





Type: Phone measurement (Complete) Area scan resolution: dx=8mm,dy=8mm Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm Date of measurement: 28/7/2012 Measurement duration: 7 minutes 40 seconds

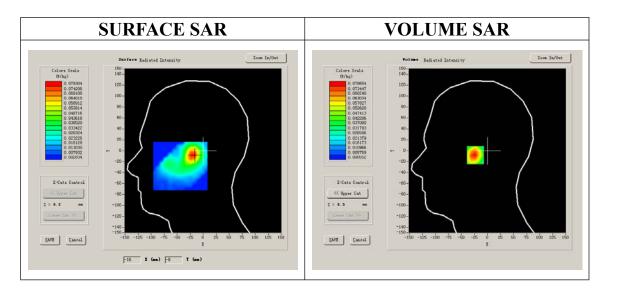
A. Experimental conditions.

Phantom File	sam_direct_droit2_surf8mm.txt			
Phantom	Left head			
Device Position	Tilt			
Band	WCDMA850			
Channels	Middle			
Signal	CDMA			

B. SAR Measurement Results

Middle Band SAR (Channel 4175):

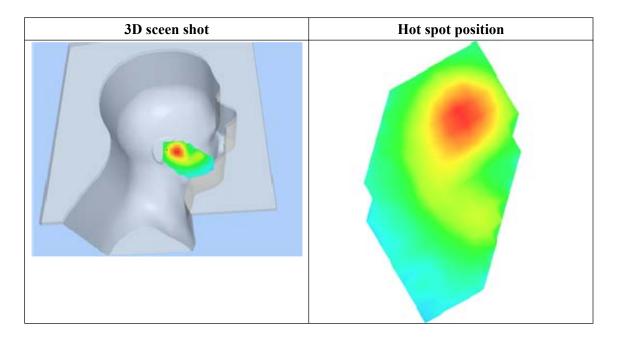
Frequency (MHz)	835.000000
Relative permittivity (real part)	41.675999
Relative permittivity	19.120001
Conductivity (S/m)	0.894409
Power drift (%)	-0.380000
Ambient Temperature:	22.7°C
Liquid Temperature:	22.8°C
ConvF:	28.479, 25.214, 27.196
Crest factor:	1:1





	SAR 10g	g (W/Kg)		0.038414			
SAR 1g (W/Kg)				0.075255			
			<u>Z Axi</u>	s Scan			
Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	0.0787	0.0391	0.0190	0.0096	0.0064	0.0025
	SAF	R. 7. Axi	s Scan	(X = −1	8. Y =	-8)	
	0.08-	., <i>-</i>			-, -		
	0.00-						
	0.06-	$+ \mathbf{N}$					
	ଭୁ 0.05 - 🗕	+					
	ີໝຼີ 0.05- ຂີ່ 0.04-						
	🖁 0.03-	+ $+$ $+$					
	0.02-		+N				
0.01-							
0.00-0.02.55.07.510.015.020.025.030.035.0							
	Z (mm)						

Maximum location: X=-18.00, Y=-8.00





Type: Phone measurement (Complete) Area scan resolution: dx=8mm,dy=8mm Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm Date of measurement: 28/7/2012 Measurement duration: 9 minutes 15 seconds

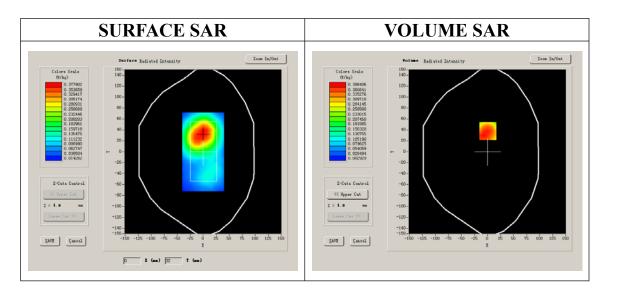
A. Experimental conditions.

Phantom File	surf_sam_plan.txt		
Phantom	Validation plane		
Device Position	Body		
Band	WCDMA850		
Channels	Middle		
Signal	CDMA		

B. SAR Measurement Results

Middle Band SAR (Channel 4175):

Frequency (MHz)	835.000000
Relative permittivity (real part)	55.709999
Relative permittivity	21.709999
Conductivity (S/m)	0.980903
Power drift (%)	-0.030000
Ambient Temperature:	22.7°C
Liquid Temperature:	22.8°C
ConvF:	28.559, 25.681, 27.588
Crest factor:	1:1

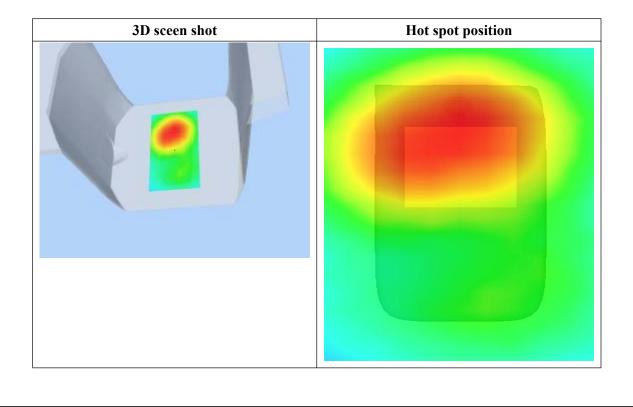




Maximum location: X=1.00, Y=38.00

SAR 10g (W/Kg)	0.208873
SAR 1g (W/Kg)	0.379165

Z (mm) SAR	0.00	4.00 0.3835	9.00 0.1870	14.00 0.0989	19.00 0.0513	24.00 0.0193	29.00 0.0104
(W/Kg)	0.0000	0.3055	0.1070	0.0989	0.0315	0.0175	0.0104
	si	AR, Z Ax	is Scan	(X = 1	. Y = 3	8)	
	0.38-				· · ·		
	0.35-	+ $+$ $+$					
	0.30-	$+ \mathbb{N}+$					
	പ്പ 0. 25 - 🗕	++					
	(25	+ $+$	+++				
	쭕 0.15						
	0.10-						
	0.05	+ $+$ $+$					
	0.01-	2.55.07.5	10.0 15.0	0 20.0	25.0 30	.0 35.0	
	0.0	2.00.01.0		5 20.0 [(mm)	20.0 00	.0 .0.0	





Type: Phone measurement (Complete) Area scan resolution: dx=8mm,dy=8mm Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm Date of measurement: 28/7/2012 Measurement duration: 9 minutes 16 seconds

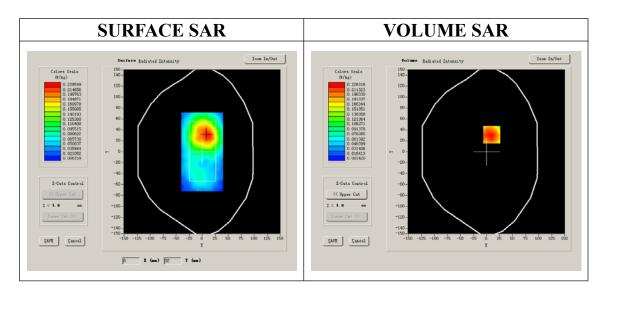
A. Experimental conditions.

Phantom File	surf_sam_plan.txt		
Phantom	Validation plane		
Device Position	Body		
Band	WCDMA850		
Channels	Middle		
Signal	CDMA		

B. SAR Measurement Results

Middle Band SAR (Channel 4175):

Frequency (MHz)	835.000000
Relative permittivity (real part)	55.709999
Relative permittivity	21.709999
Conductivity (S/m)	0.980903
Power drift (%)	-1.390000
Ambient Temperature:	22.7°C
Liquid Temperature:	22.8°C
ConvF:	28.559, 25.681, 27.588
Crest factor:	1:1

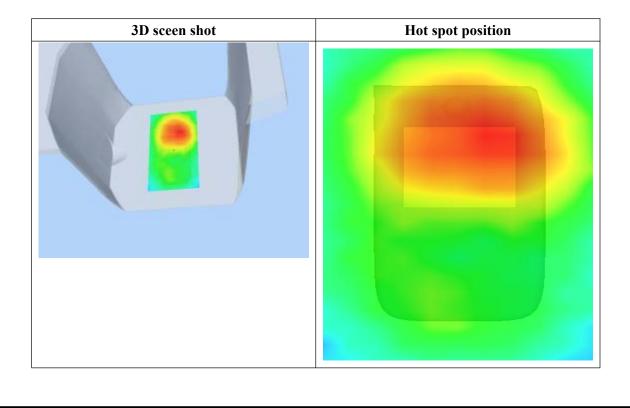




Maximum location: X=10.00, Y=31.00

SAR 10g (W/Kg)	0.119680
SAR 1g (W/Kg)	0.223116

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	0.2316	0.1126	0.0528	0.0237	0.0120	0.0068
	SA 0. 23 -	R, Z Ax	is Scan	(X = 10), ¥ = 3	31)	
	0.20	İN					
	ag 0.10-						
	0. 05 - 0. 00 - 0. 0 :	2.5 5.0 7.5	10.0 15.0	20.0	25.0 30	.0 35.0	
_			2	: (mm)			





Type: Phone measurement (Complete) Area scan resolution: dx=8mm,dy=8mm Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm Date of measurement: 28/7/2012 Measurement duration: 8 minutes 9 seconds

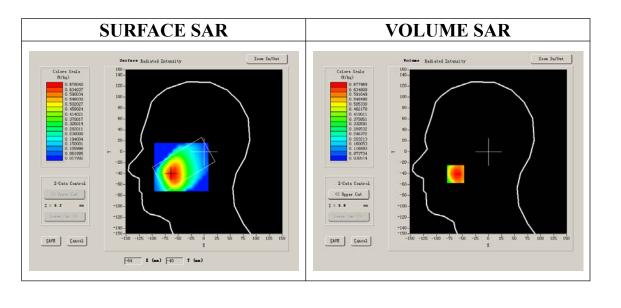
A. Experimental conditions.

Phantom File	sam_direct_droit2_surf8mm.txt		
Phantom	Right head		
Device Position	Cheek		
Band	WCDMA1900		
Channels	Middle		
Signal	CDMA		

B. SAR Measurement Results

Middle Band SAR (Channel 9400):

Frequency (MHz)	1880.000000
Relative permittivity (real part)	38.509998
Relative permittivity	13.230000
Conductivity (S/m)	1.436111
Power drift (%)	0.280000
Ambient Temperature:	22.6°C
Liquid Temperature:	22.7°C
ConvF:	40.136,34.843,38.721
Crest factor:	1:1

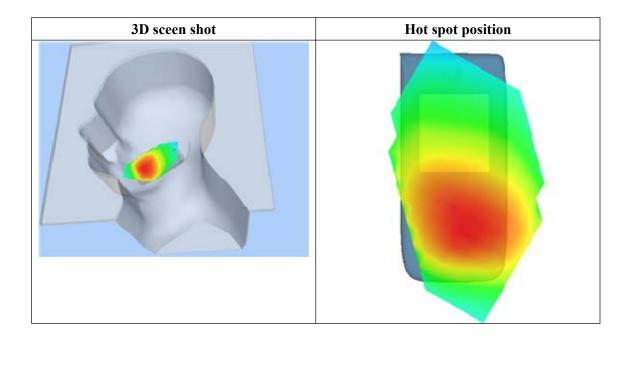




Maximum location: X=-63.00, Y=-41.00

SAR 10g (W/Kg)	0.439039
SAR 1g (W/Kg)	0.651747

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.6702	0.4745	0.3282	0.2268	0.1562	0.1070
(W/Kg)							
	SAR	, Z Axis	s Scan	(X = -63)	3, ¥ = -	-41)	
	0.7-						
	0.6-						
		N					
	0.5						
	(³) ₩ 10.4		\mathbb{N}				
			N				
	g 0.3-						
	0.2-						
	0.1-	.5 5.0 7.51	0.0 15.0	20.0	25.0 30	.0 35.0	
	0.02	.55.01.51		20.0 (mm)	20.0 00	.0	
			1	Ann 5			





Type: Phone measurement (Complete) Area scan resolution: dx=8mm,dy=8mm Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm Date of measurement: 28/7/2012 Measurement duration: 7 minutes 28 seconds

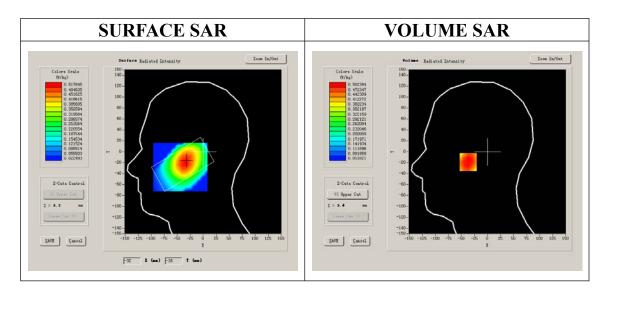
A. Experimental conditions.

Phantom File	sam_direct_droit2_surf8mm.txt		
Phantom	Right head		
Device Position	Tilt		
Band	WCDMA1900		
Channels	Middle		
Signal	CDMA		

B. SAR Measurement Results

Middle Band SAR (Channel 9400):

Frequency (MHz)	1880.000000
Relative permittivity (real part)	38.509998
Relative permittivity	13.230000
Conductivity (S/m)	1.436111
Power drift (%)	0.160000
Ambient Temperature:	22.6°C
Liquid Temperature:	22.7°C
ConvF:	40.136,34.843,38.721
Crest factor:	1:1

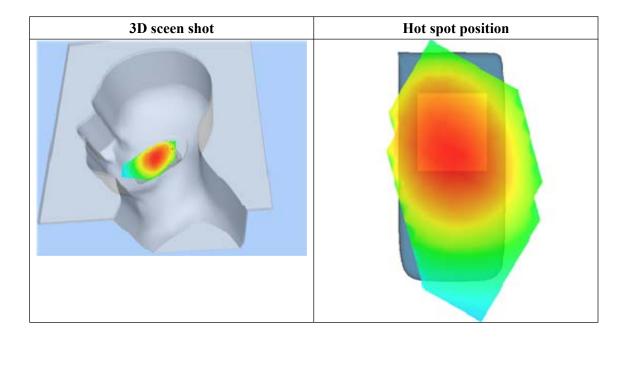




Maximum location: X=-17.00, Y=3.00

SAR 10g (W/Kg)	0.193414
SAR 1g (W/Kg)	0.356657

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.3746	0.2010	0.1064	0.0586	0.0323	0.0177
(W/Kg)							
						_	
	SA	R, Z Ax	is Scan	(X = -)	17, Y =	3)	
	0. 37 -						
		+					
	0.30-	+	+ $+$ $+$				
	എ 0.25 - —	++	+ $+$ $+$				
	() 0.25 2 0.20						
	뛇 0.15-						
	0.10-		$\perp N$				
	0.05-						
	0.01-						
		2.55.07.5	10.0 15.0	0 20.0	25.0 30	.0 35.0	
			2	(mm)			





Type: Phone measurement (Complete) Area scan resolution: dx=8mm,dy=8mm Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm Date of measurement: 28/7/2012 Measurement duration: 8 minutes 7 seconds

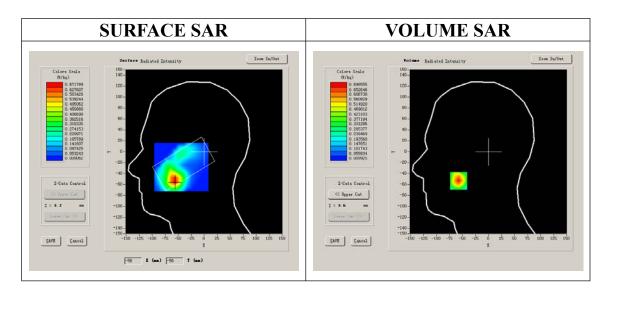
A. Experimental conditions.

Phantom File	sam_direct_droit2_surf8mm.txt		
Phantom	Left head		
Device Position	Cheek		
Band	WCDMA1900		
Channels	Middle		
Signal	CDMA		

B. SAR Measurement Results

Middle Band SAR (Channel 9400):

Frequency (MHz)	1880.000000
Relative permittivity (real part)	38.509998
Relative permittivity	13.230000
Conductivity (S/m)	1.436111
Power drift (%)	-0.500000
Ambient Temperature:	22.6°C
Liquid Temperature:	22.7°C
ConvF:	40.136,34.843,38.721
Crest factor:	1:1

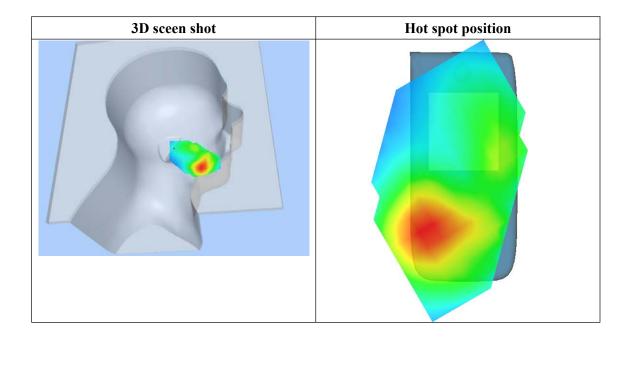




Maximum location: X=-57.00, Y=-53.00

SAR 10g (W/Kg)	0.347849
SAR 1g (W/Kg)	0.645669

Z (mm) SAR (W/Kg)	0.00 0.0000	4.00 0.6986	9.00 0.3922	14.00 0.2218	19.00 0.1278	24.00 0.0766	29.00 0.0455
	SAR	, Z Axis	s Scan	(X = -51	7, ¥ = -	-53)	
	0. 7 -						
	0.6-						
	0.5-						
	(2) 4 2) 2) 2) 2) 2) 2) 2) 2) 2) 2) 2) 2) 2)	\vdash					
	e 19 0.3		\mathbb{N}^{+}				
	⁶⁷ 0.2-		N				
	0.1-						
	0.0-	5 5.0 7.51			25 0 20		
	0.0 2.	55.01.51		20.0 (mm)	25.0 30	.0 35.0	
			Z	(mm)			





Type: Phone measurement (Complete) Area scan resolution: dx=8mm,dy=8mm Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm Date of measurement: 28/7/2012 Measurement duration: 7 minutes 30 seconds

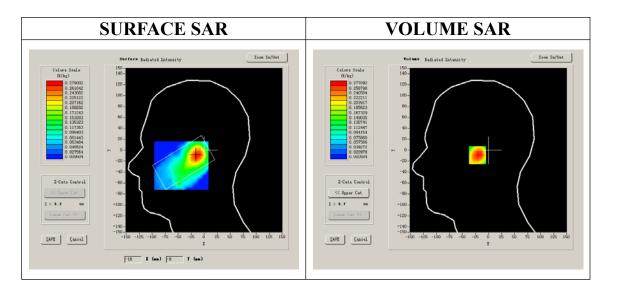
A. Experimental conditions.

Phantom File	sam_direct_droit2_surf8mm.txt		
Phantom	Left head		
Device Position	Tilt		
Band	WCDMA1900		
Channels	Middle		
Signal	CDMA		

B. SAR Measurement Results

Middle Band SAR (Channel 9400):

Frequency (MHz)	1880.000000
Relative permittivity (real part)	38.509998
Relative permittivity	13.230000
Conductivity (S/m)	1.436111
Power drift (%)	0.190000
Ambient Temperature:	22.6°C
Liquid Temperature:	22.7°C
ConvF:	40.136,34.843,38.721
Crest factor:	1:1



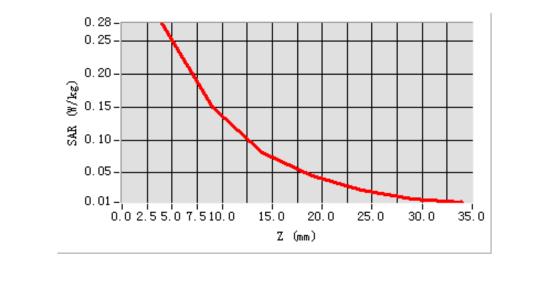


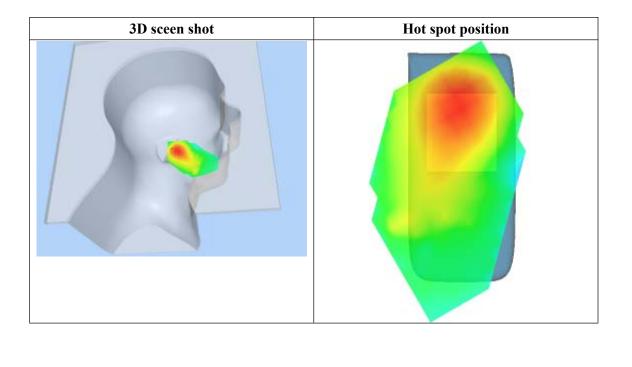
Maximum location: X=-15.00, Y=-9.00

SAR 10g (W/Kg)	0.146488
SAR 1g (W/Kg)	0.267326

Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	0.2771	0.1490	0.0811	0.0451	0.0240	0.0114
	SAR	R, Z Axi	s Scan	(X = -1)	5, ¥ = ·	-9)	







Type: Phone measurement (Complete) Area scan resolution: dx=8mm,dy=8mm Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm Date of measurement: 28/7/2012 Measurement duration: 9 minutes 7 seconds

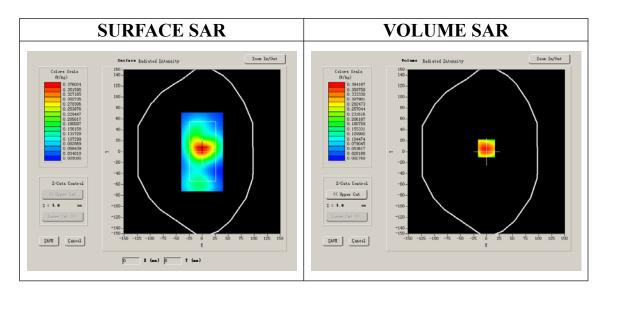
A. Experimental conditions.

Phantom File	surf_sam_plan.txt			
Phantom	Validation plane			
Device Position	Body			
Band	WCDMA1900			
Channels	Middle			
Signal	CDMA			

B. SAR Measurement Results

Middle Band SAR (Channel 9400):

Frequency (MHz)	1880.000000			
Relative permittivity (real part)	52.548876			
Relative permittivity	15.877050			
Conductivity (S/m)	1.553978			
Power drift (%)	0.060000			
Ambient Temperature:	22.6°C			
Liquid Temperature:	22.7°C			
ConvF:	40.625,34.773,38.535			
Crest factor:	1:1			

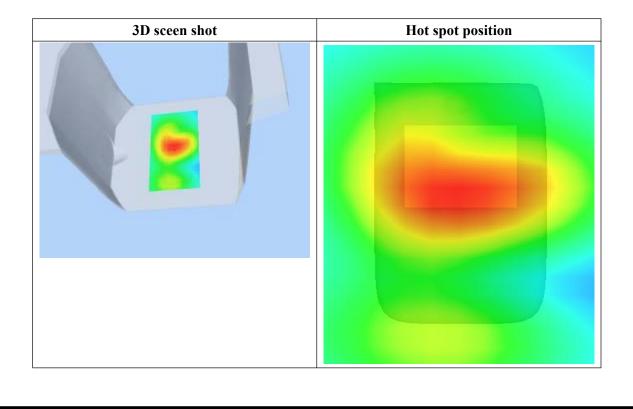




Maximum location: X=0.00, Y=6.00

SAR 10g (W/Kg)	0.218696
SAR 1g (W/Kg)	0.406177

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.4183	0.2127	0.1029	0.0574	0.0287	0.0140
(W/Kg)							
	S	AR, Z A	xis Scar	$\mathbf{h} (\mathbf{X} = 0)$	Ο, Ϋ = θ	5)	
	0. 42 -						
	0.35-						
	0.30-						
	ب ۲ 0.25	\downarrow \downarrow					
	€ _{0.20-}						
	🖁 0. 15 - 🗕	+ $+$ $+$					
	0.10-	+ $+$ $+$	+ N				
	0.05-						
	0.01-	2.55.07.5	10.0 15.0) 20.0	25.0 30	.0 35.0	
	0.0 .	2.33.01.3		; (mm)	23.0 30	.0 33.0	
			-	· • • • • • • • • • • • • • • • • • • •			





Type: Phone measurement (Complete) Area scan resolution: dx=8mm,dy=8mm Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm Date of measurement: 28/7/2012 Measurement duration: 9 minutes 14 seconds

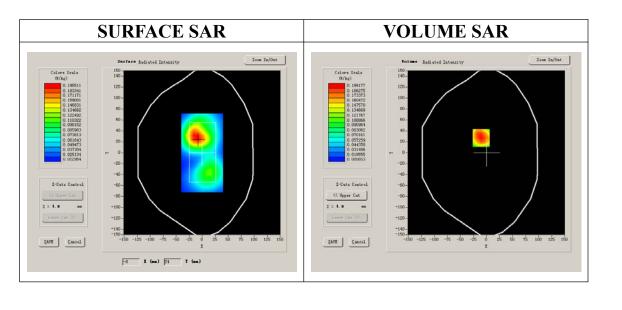
A. Experimental conditions.

Phantom File	surf_sam_plan.txt			
Phantom	Validation plane			
Device Position	Body			
Band	WCDMA1900			
Channels	Middle			
Signal	CDMA			

B. SAR Measurement Results

Middle Band SAR (Channel 9400):

Frequency (MHz)	1880.000000			
Relative permittivity (real part)	52.548876			
Relative permittivity	15.877050			
Conductivity (S/m)	1.553978			
Power drift (%)	0.080000			
Ambient Temperature:	22.6°C			
Liquid Temperature:	22.7°C			
ConvF:	40.625,34.773,38.535			
Crest factor:	1:1			

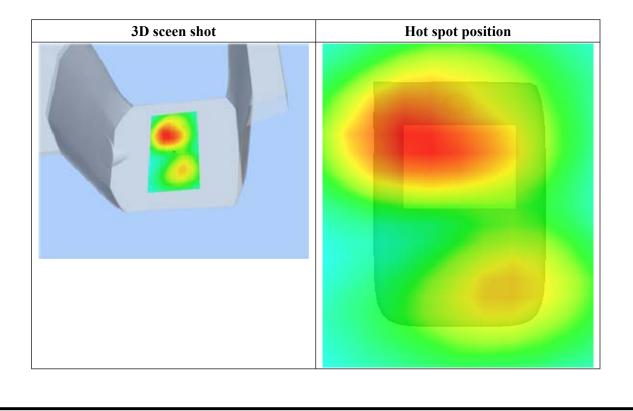




Maximum location: X=-10.00, Y=27.00

SAR 10g (W/Kg)	0.123137
SAR 1g (W/Kg)	0.208097

Z (mm) SAR (W/Kg)	0.00 0.0000	4.00 0.2169	9.00 0.1279	14.00 0.0778	19.00 0.0476	24.00 0.0281	29.00 0.0177
	0. 217 -	2, Z Axi	s Scan	(X = -1	0, Y =	27)	1
	0. 175 0. 150 0. 125						
	8 0. 100						
	0.050- 0.012- 0.0	2.55.07.5	510.0 15.	0 20.0	25.0 30	.0 35.0	
_				Z (mm)			





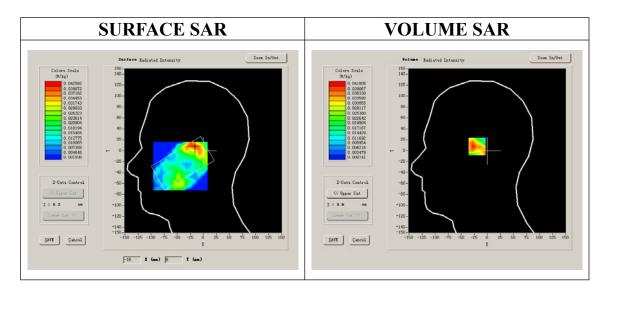
Type: Phone measurement (Complete) Area scan resolution: dx=8mm,dy=8mm Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm Date of measurement: 28/7/2012 Measurement duration: 8 minutes 17 seconds

A. Experimental conditions.

Phantom File	surf_sam_plan.txt			
Phantom	Right head			
Device Position	Cheek			
Band	802.11B			
Channels	High			
Signal	DSSS			

B. SAR Measurement Results

Frequency (MHz)	2462.000000
Relative permittivity (real part)	39.622857
Relative permittivity	12.991650
Conductivity (S/m)	1.854712
Power drift (%)	-0.430000
Ambient Temperature:	22.3°C
Liquid Temperature:	21.5°C
ConvF:	39.563,33.614,37.677
Crest factor:	1:1

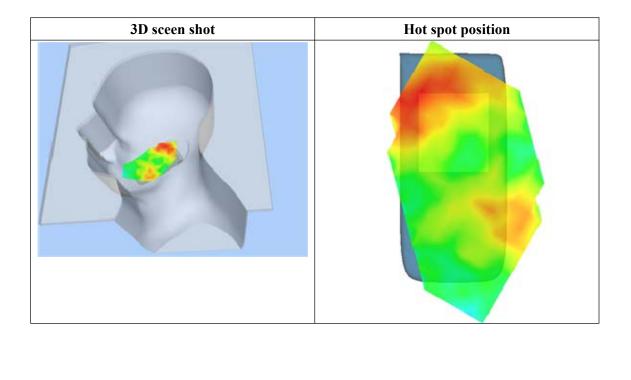




Maximum location: X=-16.00, Y=8.00

SAR 10g (W/Kg)	0.021193		
SAR 1g (W/Kg)	0.039778		

Z (mm) SAR (W/Kg)	0.00	4.00 0.0367	9.00 0.0166	14.00 0.0097	19.00 0.0044	24.00 0.0074	29.00 0.0061
		R, Z Ax	is Scan	(X = -1	L6, ¥ =	8)	
	0. 037 -						
4	ଲୁ 0.025 ଛି 0.020						
	0.015-						
	0.010	2.55.07.5	510.0 15.	0 20.0	25.0 30	.0 35.0	
				Z (mm)			





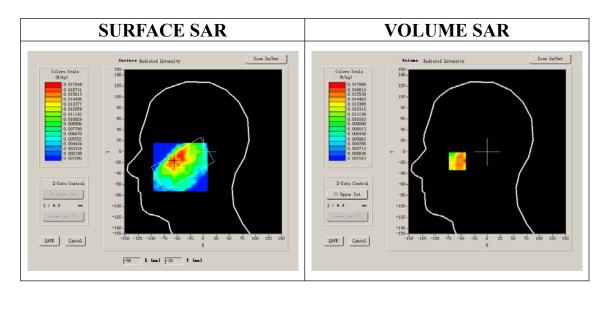
Type: Phone measurement (Complete) Area scan resolution: dx=8mm,dy=8mm Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm Date of measurement: 28/7/2012 Measurement duration: 8 minutes 15 seconds

A. Experimental conditions.

Phantom File	surf_sam_plan.txt			
Phantom	Right head			
Device Position	Tilt			
Band	802.11B			
Channels	High			
Signal	DSSS			

B. SAR Measurement Results

Frequency (MHz)	2462.000000
Relative permittivity (real part)	39.622857
Relative permittivity	12.991650
Conductivity (S/m)	1.854712
Power drift (%)	-0.630000
Ambient Temperature:	22.3°C
Liquid Temperature:	21.5°C
ConvF:	39.563,33.614,37.677
Crest factor:	1:1

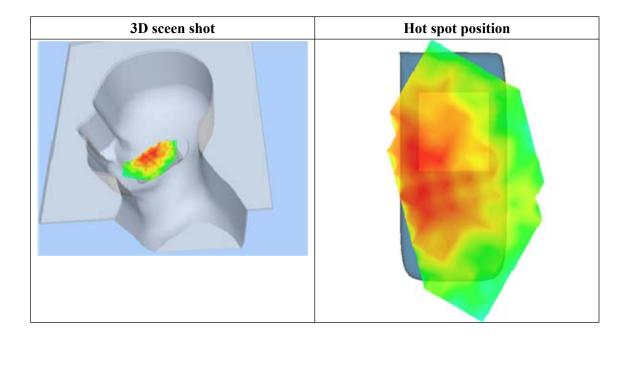




Maximum location: X=-57.00, Y=-16.00

SAR 10g (W/Kg)	0.011208		
SAR 1g (W/Kg)	0.015786		

Z (mm) SAR (W/Kg)	0.00	4.00 0.0152	9.00 0.0138	14.00 0.0075	19.00 0.0052	24.00 0.0072	29.00 0.0061
	SAR	, Z Axi	s Scan	(X = -51	7, ¥ = -	-16)	
	0.015-						
	0.014-						
	0.012- ∰ € 0.010-						
	0.008		+N				
	0.005-	2.55.07.	510.0 15.	0 20.0	25.0 30	.0 35.0	
				Z (mm)			





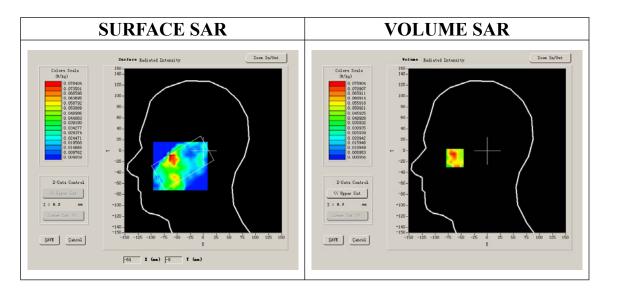
Type: Phone measurement (Complete) Area scan resolution: dx=8mm,dy=8mm Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm Date of measurement: 28/7/2012 Measurement duration: 8 minutes 17 seconds

A. Experimental conditions.

Phantom File	surf_sam_plan.txt		
Phantom Left head			
Device Position Cheek			
Band	802.11B		
Channels	High		
Signal	DSSS		

B. SAR Measurement Results

Frequency (MHz)	2462.000000
Relative permittivity (real part)	39.622857
Relative permittivity	12.991650
Conductivity (S/m)	1.854712
Power drift (%)	0.510000
Ambient Temperature:	22.3°C
Liquid Temperature:	21.5°C
ConvF:	39.563,33.614,37.677
Crest factor:	1:1

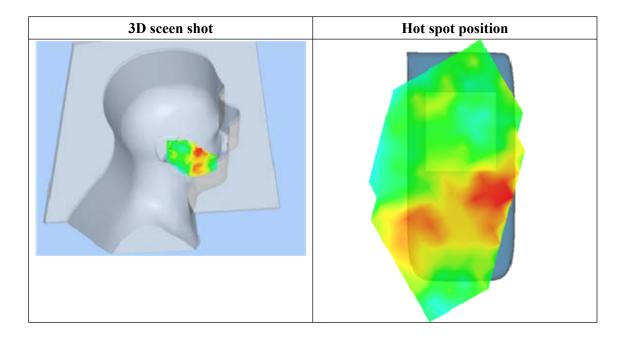




Maximum location: X=-62.00, Y=-11.00

SAR 10g (W/Kg)	0.037081		
SAR 1g (W/Kg)	0.074511		

Z (mm) SAR (W/Kg)	0.00 0.0000	4.00 0.0699	9.00 0.0417	14.00 0.0278	19.00 0.0171	24.00 0.0169	29.00 0.0019
	0.07 - 0.06 - 0.05 - 0.04 - 0.03 - 0.02 - 0.01 - 0.00 -	, Z Axi:	10.0 15.0			-11)	<u>.</u>





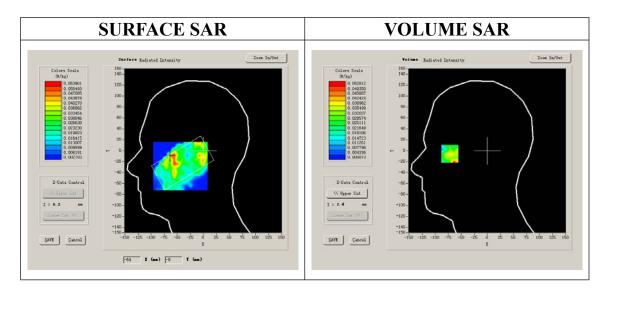
Type: Phone measurement (Complete) Area scan resolution: dx=8mm,dy=8mm Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm Date of measurement: 28/7/2012 Measurement duration: 8 minutes 17 seconds

A. Experimental conditions.

Phantom File	surf_sam_plan.txt		
Phantom	Left head		
Device Position	Tilt		
Band	802.11B		
Channels	High		
Signal	DSSS		

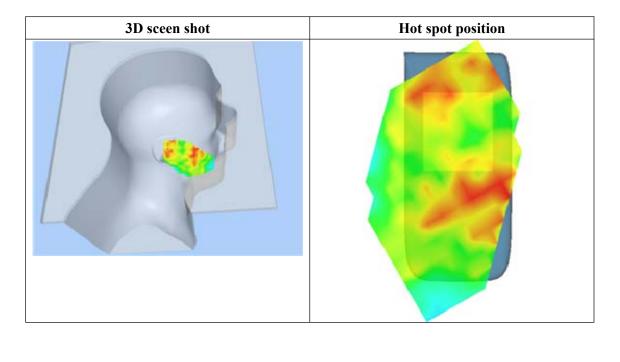
B. SAR Measurement Results

Frequency (MHz)	2462.000000
Relative permittivity (real part)	39.622857
Relative permittivity	12.991650
Conductivity (S/m)	1.854712
Power drift (%)	0.620000
Ambient Temperature:	22.3°C
Liquid Temperature:	21.5°C
ConvF:	39.563,33.614,37.677
Crest factor:	1:1





	CAD 10-	- (W/IZ -)			0.02	2400	
		$\frac{g(W/Kg)}{W/W}$		0.022408 0.035254			
	SAR 1g	(W/Kg)					
			<u>Z Axi</u>	<u>s Scan</u>			
Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.0391	0.0092	0.0046	0.0118	0.0077	0.0097
(W/Kg)							
	0.039-	2, Z Axi	s Scan	(X = -7	2, Y =	-2)	
- - 	0. 039 - 0. 035 - 0. 030 -	2, Z Axi	s Scan	(X = -7	2, Y =	-2)	
	0.039 - 0.035 - 0.030 - 0.025 -	2 Axi	s Scan	(X = -7	2, Y =	-2)	





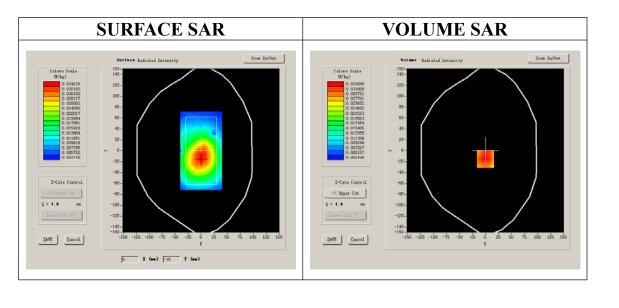
Type: Phone measurement (Complete) Area scan resolution: dx=8mm,dy=8mm Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm Date of measurement: 28/7/2012 Measurement duration: 9 minutes 10 seconds

A. Experimental conditions.

Phantom File	surf_sam_plan.txt
Phantom	Validation plane
Device Position	Body
Band	802.11B
Channels	High
Signal	DSSS

B. SAR Measurement Results

Frequency (MHz)	2462.000000
Relative permittivity (real part)	52.548876
Relative permittivity	15.500000
Conductivity (S/m)	1.974257
Power drift (%)	-1.710000
Ambient Temperature:	22.0°C
Liquid Temperature:	21.8°C
ConvF:	39.772,33.946,37.835
Crest factor:	1:1

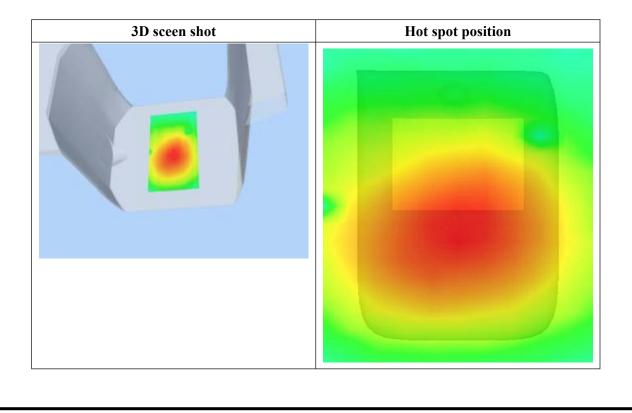




Maximum location: X=0.00, Y=-15.00

SAR 10g (W/Kg)	0.024740
SAR 1g (W/Kg)	0.035394

Z (mm) SAR	0.00 0.0000	4.00 0.0372	9.00 0.0283	14.00 0.0209	19.00 0.0142	24.00 0.0105	29.00 0.0083
(W/Kg)							
				(-)	
	SA	R, Z Ax	is Scan	$(\mathbf{X} = 0,$	$\mathbf{Y} = -1$.5)	
	0. 037 -						
	0.030						
	ୁଞ୍ଚ 0. 025 - <mark>-</mark>	+ + +					
	(≌) 0.025 ∭2 0.020 NY 0.020		+N				
	8 0.015						
	0.010						
	0.006-	2.55.07.	510.0 15.	0 20.0	25.0 30	.0 35.0	
	0.0	2.00.01.		υ 20.0 Ζ (mm)	20.0 00	.0 .0.0	
_				- (1007)			





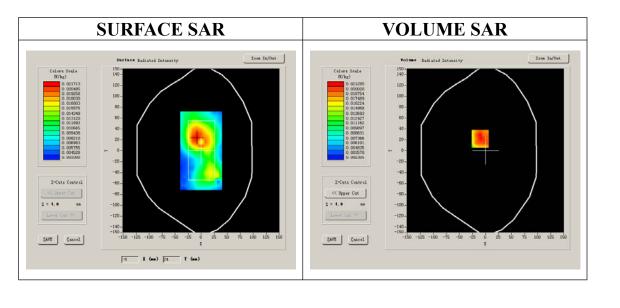
Type: Phone measurement (Complete) Area scan resolution: dx=8mm,dy=8mm Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm Date of measurement: 28/7/2012 Measurement duration: 9 minutes 10 seconds

A. Experimental conditions.

Phantom File	surf_sam_plan.txt		
Phantom	Validation plane		
Device Position	Body		
Band	802.11B		
Channels	High		
Signal	DSSS		

B. SAR Measurement Results

Frequency (MHz)	2462.000000
Relative permittivity (real part)	52.548876
Relative permittivity	15.500000
Conductivity (S/m)	1.974257
Power drift (%)	-1.520000
Ambient Temperature:	22.0°C
Liquid Temperature:	21.8°C
ConvF:	39.772,33.946,37.835
Crest factor:	1:1

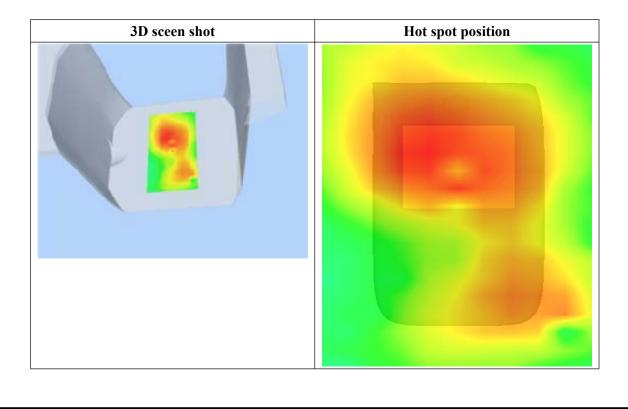




Maximum location: X=-10.00, Y=22.00

SAR 10g (W/Kg)	0.015390
SAR 1g (W/Kg)	0.024456

Z (mm) SAR (W/Kg)	0.00	4.00 0.0253	9.00 0.0164	14.00 0.0097	19.00 0.0065	24.00 0.0049	29.00 0.0037
	SAF	R, Z Axi	is Scan	(X = -1	0, Y =	22)	
	0. 025 -						
	0.020	+ N					
	ĝ € 0.015-—		\mathbf{X}				
	₹ 0.010						
	0. 003 – 0. 0	2.55.07.	510.0 15.	0 20.0	25.0 30	.0 35.0	
				Z (mm)			





System Performance Check Data(Head)

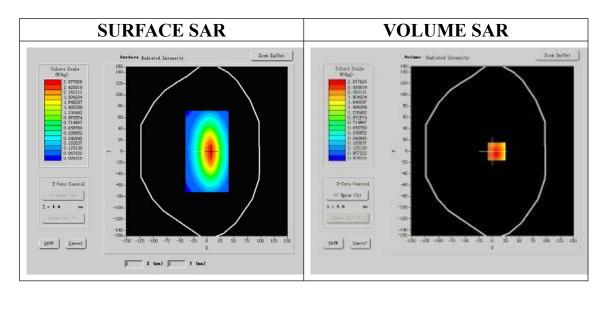
Type: Phone measurement (Complete) Area scan resolution: dx=8mm,dy=8mm Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm Date of measurement: 28/7/2012 Measurement duration: 13 minutes 27 seconds

A. Experimental conditions.

Phantom File	surf_sam_plan.txt		
Phantom	Validation plane		
Device Position			
Band	835MHz		
Channels			
Signal	CW		

B. SAR Measurement Results

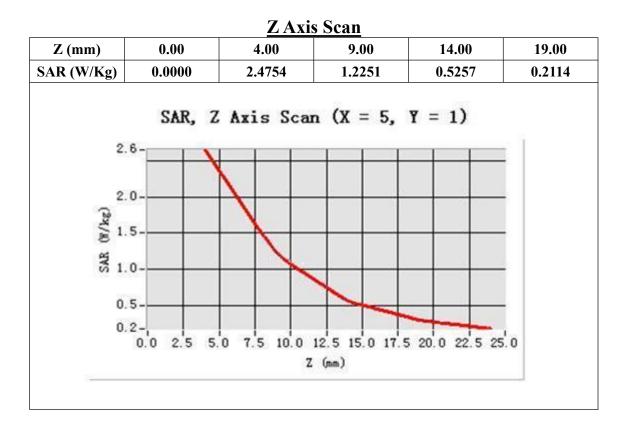
Frequency (MHz)	835.000000	
Relative permittivity (real part)	41.675999	
Relative permittivity	15.070000	
Conductivity (S/m)	0.894409	
Power drift (%)	-0.050000	
Ambient Temperature:	22.4°C	
Liquid Temperature:	21.5°C	
ConvF:	28.479,25.214,27.196	
Crest factor:	1:1	

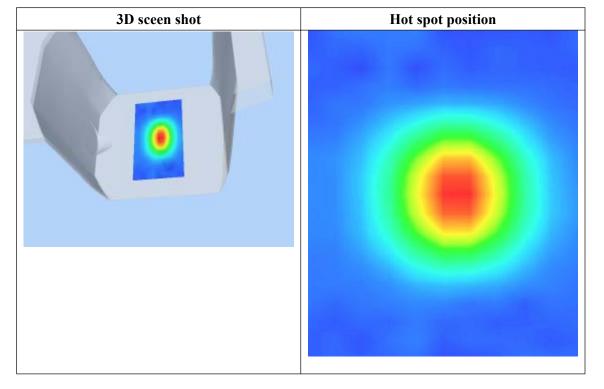




Maximum location: X=5.	00, Y=1.00
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SAR 10g (W/Kg)	1.685732	
SAR 1g (W/Kg)	2.478462	







System Performance Check Data(Body)

Type: Phone measurement (Complete) Area scan resolution: dx=8mm,dy=8mm Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm Date of measurement: 28/7/2012

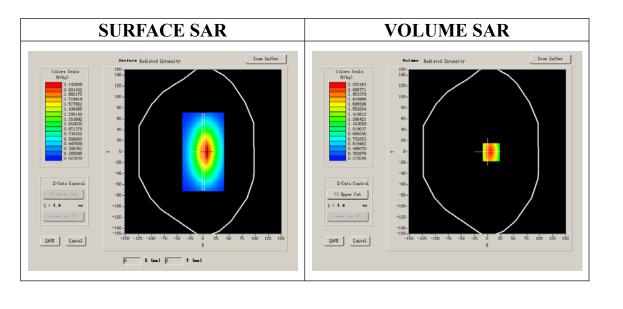
Measurement duration: 13 minutes 27 seconds

A. Experimental conditions.

Phantom File	surf_sam_plan.txt	
Phantom	Validation plane	
Device Position		
Band	835MHz	
Channels		
Signal	CW	

B. SAR Measurement Results

Frequency (MHz)	835.000000	
Relative permittivity (real part)	55.709999	
Relative permittivity	21.709999	
Conductivity (S/m)	0.9809033	
Power drift (%)	-0.170000	
Ambient Temperature:	22.4°C	
Liquid Temperature:	21.5°C	
ConvF:	28.559,25.681,27.588	
Crest factor:	1:1	



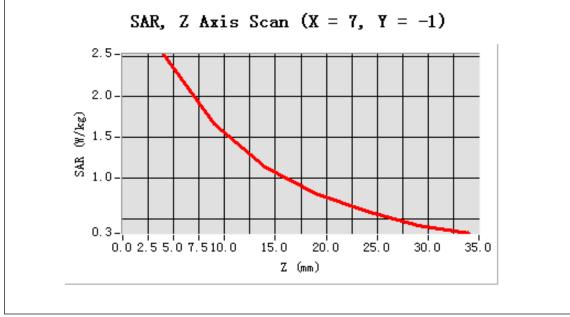


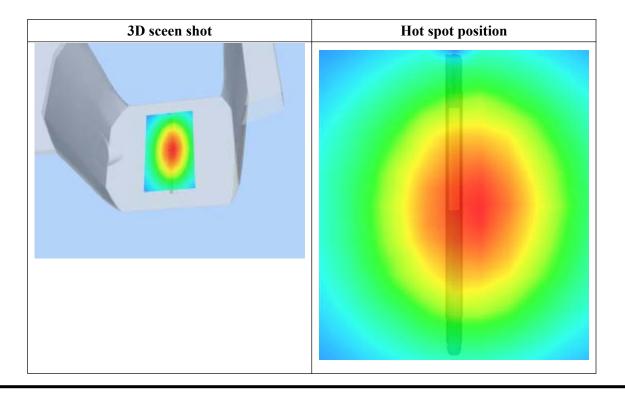
Maximum location: X=7.00, Y=-1.00

SAR 10g (W/Kg)	1.539476	
SAR 1g (W/Kg)	2.385979	

Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	2.5209	1.6629	1.1437	0.8075	0.5889	0.4143
(W/Kg)							







System Performance Check Data(Head)

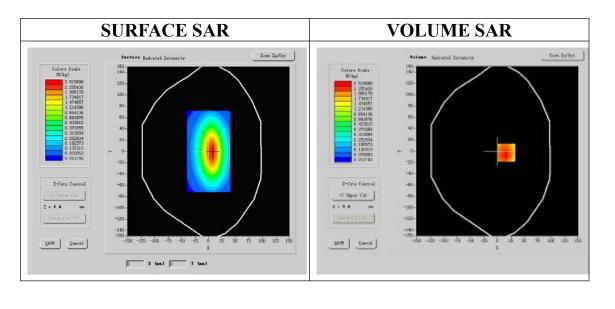
Type: Phone measurement (Complete) Area scan resolution: dx=8mm,dy=8mm Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm Date of measurement: 28/7/2012 Measurement duration: 13 minutes 27 seconds

A. Experimental conditions.

Phantom File	surf_sam_plan.txt	
Phantom	Validation plane	
Device Position		
Band	1900MHz	
Channels		
Signal	CW	

B. SAR Measurement Results

Frequency (MHz)	1900.000000	
Relative permittivity (real part)	38.509998	
Relative permittivity	15.070000	
Conductivity (S/m)	1.436111	
Power drift (%)	-0.140000	
Ambient Temperature:	22.3°C	
Liquid Temperature:	22.6°C	
ConvF:	40.136,34.843,38.721	
Crest factor:	1:1	

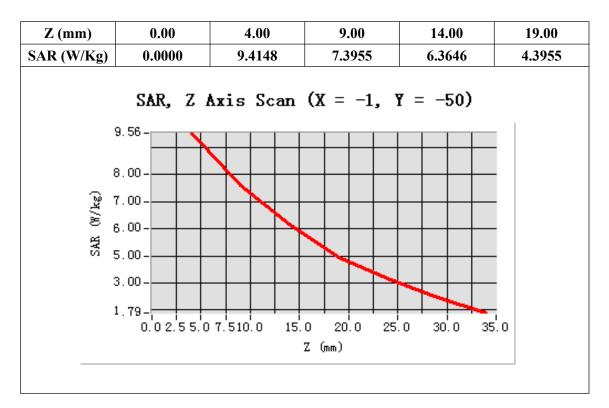


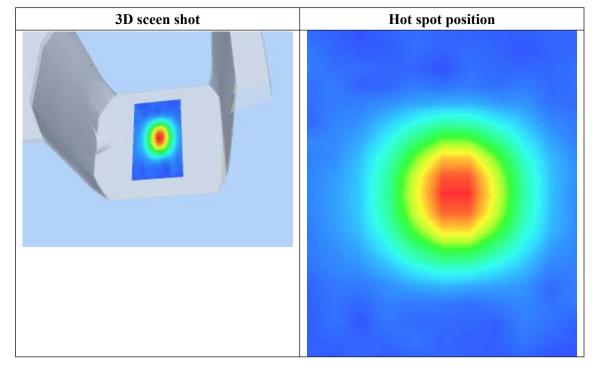


Maximum location: X=-1.00, Y=-50.00	
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SAR 10g (W/Kg)	4.884149	
SAR 1g (W/Kg)	9.454628	

Z Axis Scan







System Performance Check Data(Body)

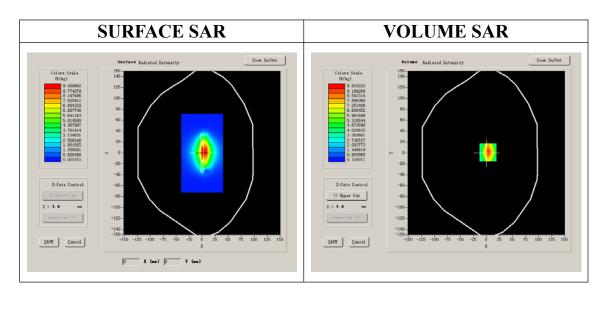
Type: Phone measurement (Complete) Area scan resolution: dx=8mm,dy=8mm Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm Date of measurement: 28/7/2012 Measurement duration: 13 minutes 26 seconds

A. Experimental conditions.

Phantom File	surf_sam_plan.txt	
Phantom	Validation plane	
Device Position		
Band	1900MHz	
Channels		
Signal	CW	

B. SAR Measurement Results

Frequency (MHz)	1900.000000
Relative permittivity (real part)	52.548876
Relative permittivity	14.070000
Conductivity (S/m)	1.553978
Power drift (%)	-0.030000
Ambient Temperature:	22.3°C
Liquid Temperature:	22.6°C
ConvF:	40.625,34.773,38.535
Crest factor:	1:1

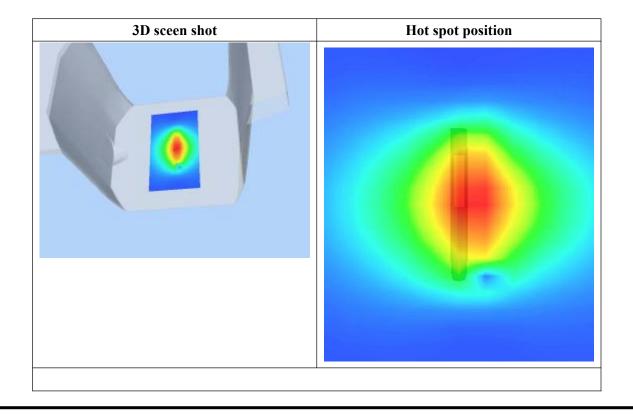




Maximum location: X=3.00, Y=1.00

SAR 10g (W/Kg)	4.981611
SAR 1g (W/Kg)	9.740177

SAR	0 0000	10.0(31	9.00	14.00	19.00	24.00	29.00
(W/Kg)	0.0000	10.0621	5.6445	3.6226	2.1642	1.4521	0.9078
			• •	(17 - 0		`	
		AR, Z A	kis scar	$\mathbf{h} (\mathbf{X} = \mathbf{x})$	5, I = 1	.,	
	10.06						
	8.00-	$+ \mathbf{N}$					
1	£ 6.00-	\					
	5						
67.0 2	몇 4.00		+N				
	2.00						
	0.64-				╺╼┿╼┿╼╸		
	0.0	2.5 5.0 7.5		0 20.0 Z (mm)	25.0 30	0 35.0	
				2 (MM)			





System Performance Check Data(Head)

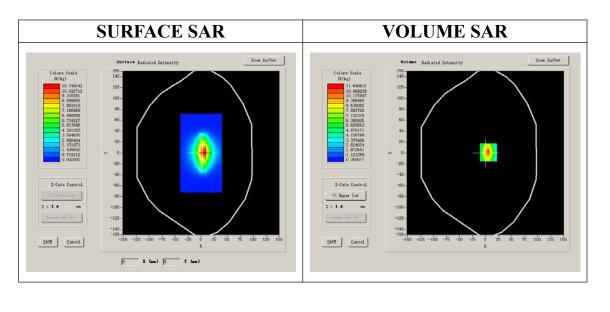
Type: Phone measurement (Complete) Area scan resolution: dx=8mm,dy=8mm Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm Date of measurement: 28/7/2012 Measurement duration: 13 minutes 27 seconds

A. Experimental conditions.

Phantom File	surf_sam_plan.txt			
Phantom	Validation plane			
Device Position				
Band	2450MHz			
Channels				
Signal	CW			

B. SAR Measurement Results

Frequency (MHz)	2450.000000
Relative permittivity (real part)	39.622857
Relative permittivity	12.991650
Conductivity (S/m)	1.854712
Power Drift (%)	0.560000
Ambient Temperature:	22.0°C
Liquid Temperature:	21.8°C
ConvF:	39.563,33.614,37.677
Crest factor:	1:1

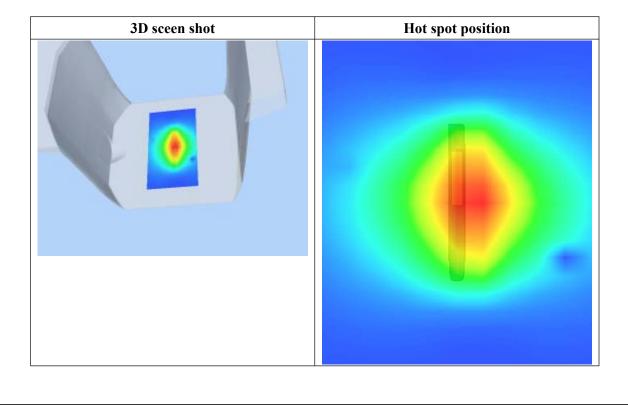




Maximum location: X=6.00, Y=1.00

SAR 10g (W/Kg)	5.938478
SAR 1g (W/Kg)	12.442675

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	12.7015	6.2096	3.8187	2.4504	1.5036	1.0219
(W/Kg)							
	c	AR, Z A	vic Sca	x = 0	6 V = 1)	
		MA, 2 M.	ars bea	u (x -)	, 1 – 1	.,	
	12.61 -	N					
	10.00						
53	B 8.00-						
	£ 6.00						
	R.		N				
	4.00						
	2.00	+++					
	0.66-	2.5 5.0 7.5	10.0 15.	0 20.0	25.0 30	.0 35.0	
				Z (mm)			
-							





System Performance Check Data(Body)

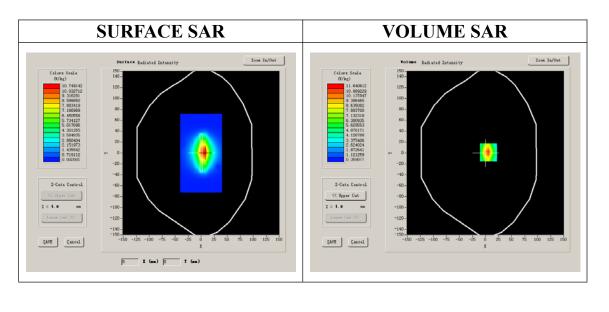
Type: Phone measurement (Complete) Area scan resolution: dx=8mm,dy=8mm Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm Date of measurement: 28/7/2012 Measurement duration: 13 minutes 27 seconds

A. Experimental conditions.

Phantom File	surf_sam_plan.txt			
Phantom	Validation plane			
Device Position				
Band	2450MHz			
Channels				
Signal	CW			

B. SAR Measurement Results

Frequency (MHz)	2450.000000
Relative permittivity (real part)	52.548876
Relative permittivity	12.991650
Conductivity (S/m)	1.974257
Power Drift (%)	1.080000
Ambient Temperature:	22.0°C
Liquid Temperature:	21.8°C
ConvF:	39.772,33.946,37.835
Crest factor:	1:1





Maximum location: X=-1.00, Y=-50.00

SAR 10g (W/Kg)	6.256773
SAR 1g (W/Kg)	12.789110

Z Axis Scan

