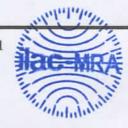


Report No.: SZ11050006S01





SAR TEST REPO

Issued to

Z.T.S. International Industrial Co. Ltd.

For

Mobile Phone

Model Name

: G150i

Trade Name

: G-TiDE

Brand Name

: G-TiDE

FCC ID

: YROG150I

Standard

: FCC Oet65 Supplement C Jun.2001

47CFR 2.1093

ANSI C95.1-1999

IEEE 1528-2003

MAX SAR

: Head: 1.122W/kg

Test date

: May. 11, 2011

Issue date

: Jun. 2, 2011

Shenzhen MORLAB Communication Technology Co., Ltd.

Date

Date



IEEE 1725

OTA











FCC Reg. No.

BQTF

741109

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	Change History					
Issue	Date	Reason for change				
1.0	May 16, 2011	First edition				
1.1	Jun. 2, 2011	Secondly 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
Facsimile: +86 755 86130218

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 (Annex A)

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)	2010-9-26	1year
3	Voltmeter	Keithley (2000, SN:1000572)	2010-9-24	1year
4	Synthetizer	Rohde&Schwarz (SML_03, SN:101868)	2010-9-24	1 year
5	Amplifier	Nucl udes (ALB216, SN:10800)	2010-9-24	1year
6	Power Meter	Rohde&Schwarz (NRVD, SN:101066)	2010-9-24	1year
7	Probe	Satimo (SN:SN_3708_EP80)	2010-9-24	1year
8	Phantom	Satimo (SN:SN_36_08_SAM62)	2010-9-24	1year
9	Liquid	Satimo (Last Calibration:21 08 08)	2010-8-21	1year
10	Dipole 835MHz	Satimo (SN 36/08 DIPC 99)	2010-9-23	1 year
11	Dipole 1900MHz	Satimo (SN 36/08 DIPF 102)	2010-9-23	1 year



2. Technical Information

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

2.1. Identification of Applicant

Company Name: Z.T.S. International Industrial Co. Ltd.

Address: 12 BC Jinrun Building, chegongmiao, Shennan Road, Futian

District, Shenzhen Guangdong China

2.2. Identification of Manufacturer

Company Name: N/A Address: N/A

2.3. Equipment Under Test (EUT)

Brand Name: G-TiDE
Type Name: G-TiDE
Marking Name: G150i
Hardware Version: N/A
Software Version: N/A

Frequency Bands: GSM 850MHz / PCS 1900MHz

Modulation Mode: GSM: GMSK

Multislot Class GPRS: N/A, EDGE: N/A
Antenna type: Fixed Internal Antenna
Development Stage: Identical prototype

Battery Model: G150i

Battery specification: 800mAh 3.7V

2.3.1. Photographs of the EUT

Please see for photographs of the EUT.

2.3.2. Identification of all used EUTs

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:

No.	Identity	Document Title
1	47 CFR § 2. 1093	Radiofrequency Radiation Exposure Evaluation: Portable Devices
2	FCC OET	Evaluating Compliance with FCC Guidelines for Human
	Bulletin 65	Exposure to Radiofrequency Electromagnetic Fields
	(Edition 97-01),	
	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.

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

Normal Temperature (NT): 20 ... 25 °C Relative Humidity: 30 ... 75 %

Air Pressure: 980 ... 1020 hPa
Test frequency: GSM 850MHz

PCS 1900MHz

Operation mode: Call established

Power Level: GSM 850 MHz Maximum output power(level 5)

PCS 1900 MHz Maximum output power(level 0)

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 128, 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, The EUT, The EUT is 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.



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:

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

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)



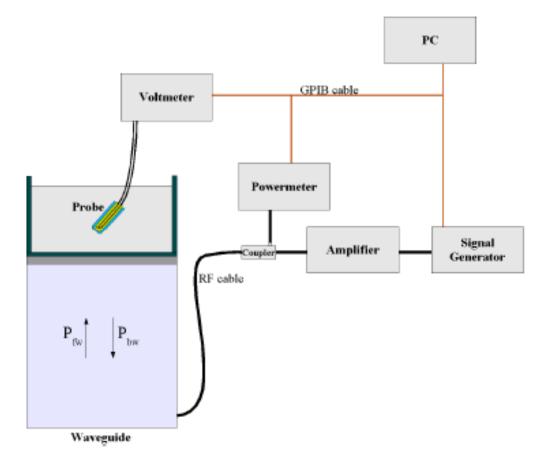
- Probe linearity: <0.25 dB- Axial Isotropy: <0.25 dB

- 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 62209 Annex technique using reference guide at the five frequencies.



$$SAR = \frac{4\left(P_{fw} - P_{bw}\right)}{ab\delta} \cos^2\left(\pi \frac{y}{a}\right) e^{-(2z/\delta)}$$

Where:

Pfw = Forward Power Pbw = Backward Power

a and b = Waveguide dimensions

1 = Skin depth 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)

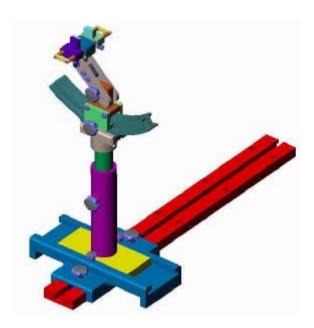
where DCP is the diode compression point in mV.

4.3. 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 +/- 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.

4.4. 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 GSM 850MHz PCS 1900MHz, 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 is 15cm.

Gives the recipes for one liter of head and body tissue simulating liquid for frequency band 835 MHz and 1900 MHz.

Ingredients	Frequency Band	Frequency Band
(% by weight)	835MHz	1900MHz
Tissue Type	Head	Head
Water	41.45	55.36
Salt(NaCl)	1.45	0.35
Sugar	56.0	30.45
HEC	1.0	0.0
Bactericide	0.1	0.0
Triton	0.0	0.0
DGBE	0.0	13.84
Acticide SPX	0.0	0.0
Dielectric Constant	42.45	41.00
Conductivity (S/m)	0.91	1.38

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

Temperature: 23.0~23.8°C, humidity: 54~60%.							
/	Frequency	Permittivity ε	Conductivity σ (S/m)				
Target value	835 MHZ	41.5	0.90				
Validation value (May 11)	835 MHZ	41.675999	0.894409				
Target value	1900 MHZ	40	1.40				
Validation value (May 11)	1900 MHZ	39.993999	1.395397				



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

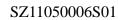
a	b	c	d	e= f(d,k)	f	g	h=	i=	k
							c*f/e	c*g/e	
Uncertainty Component	Sec.	Tol	Prob.	Div.	Ci (1g)	Ci	1g Ui	10g Ui	V
		(+- %	Dist.			(10g)	(+-%)	(+-%)	i
)							
Measurement System		•							
Probe calibration	E.2.1	7.0	N	1	1	1	7.00	7.00	
Axial Isotropy	E.2.2	2.5	R	V3	0.7	0.7	1.01	1.01	
Hemispherical Isotropy	E.2.2	4.0	R	√3	0.7	0.7	1.62	1.62	
Boundary effect	E.2.3	1.0	R	√3	1	1	0.58	0.58	
Linearity	E.2.4	5.0	R	V3	1	1	2.89	2.89	
System detection limits	E.2.5	1.0	R	√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	V3	1	1	1.73	1.73	
Integration Time	E.2.8	2.0	R	V3	1	1	1.15	1.15	
RF ambient Conditions	E.6.1	3.0	R	√3	1	1	1.73	1.73	
Probe positioner Mechanical	E.6.2	2.0	R	√3	1	1	1.15	1.15	
Tolerance				13					
Probe positioning with respect to	E.6.3	0.05	R	√3	1	1	0.03	0.03	
Phantom Shell Extrapolation, interpolation and	E.5.2	5.0	R		1	1	2.89	2.89	
integration Algoritms for Max.	E.3.2	3.0	K	√3	1	1	2.89	2.89	
SAR Evaluation									
Test sample Related									
Test sample positioning	E.4.2.1	0.03	N	1	1	1	0.03	0.03	N
Test sample positioning	12.4.2.1	0.03	11	1	1	1	0.03	0.03	_
									1
Device Holder Uncertainty	E.4.1.1	5.00	N	1	1	1	5.00	5.00	-
Output power Variation - SAR	6.6.2	2.74	R	,E	1	1	1.58	1.58	
drift measurement				√3					
Phantom and Tissue Parameters	<u> </u>		•		ı				•
Phantom Uncertainty (Shape and	E.3.1	0.05	R	√3	1	1	0.03	0.03	
thickness tolerances)				¥3					
Liquid conductivity - deviation	E.3.2	4.57	R	√3	0.64	0.43	1.69	1.13	
from target value				43					
			· · · · · · · · · · · · · · · · · · ·						



E.3.3	5.00	N	1	0.64	0.43	3.20	2.15	M
E.3.2	3.69	R	\[\sqrt{2}	0.6	0.49	1.28	1.04	
			¥3					
E.3.3	10.00	N	1	0.6	0.49	6.00	4.90	M
		RSS				12.52	11.71	
		k				25.05	23.42	
	E.3.2	E.3.2 3.69	E.3.2 3.69 R E.3.3 10.00 N RSS	E.3.2 3.69 R \(\sqrt{3}\) E.3.3 10.00 N 1	E.3.2 3.69 R 0.6 E.3.3 10.00 N 1 0.6 RSS	E.3.2 3.69 R 0.6 0.49 E.3.3 10.00 N 1 0.6 0.49 RSS	E.3.2 3.69 R	E.3.2 3.69 R

6.2. UNCERTAINTY FOR SYSTEM PERFORMANCE CHECK

	T	1	1	1	1	1	1		т —
	b	С	d	e=f(d,k)	f	g	h=	i=	k
							c*f/e	c*g/e	
rtainty Component	Sec.	Tol	Prob.	Div.	Ci (1g)	Ci	1g Ui	10g Ui	V
		(+- %	Dist.			(10g)	(+-%)	(+-%)	i
)							
surement System									
calibration	E.2.1	7.0	N	1	1	1	7.00	7.00	
Isotropy	E.2.2	2.5	R	√3	0.7	0.7	1.01	1.01	
spherical Isotropy	E.2.2	4.0	R	V3	0.7	0.7	1.62	1.62	
dary effect	E.2.3	1.0	R	V3	1	1	0.58	0.58	
rity	E.2.4	5.0	R	√3	1	1	2.89	2.89	
m detection limits	E.2.5	1.0	R	V3	1	1	0.58	0.58	
out Electronics	E.2.6	0.02	N	1	1	1	0.02	0.02	
nse Time	E.2.7	3.0	R	√3	1	1	1.73	1.73	
ration Time	E.2.8	2.0	R	V3	1	1	1.15	1.15	
nbient Conditions	E.6.1	3.0	R	V3	1	1	1.73	1.73	
e positioner Mechanical	E.6.2	2.0	R	√3	1	1	1.15	1.15	
ance				13					
e positioning with respect to	E.6.3	0.05	R	√3	1	1	0.03	0.03	
om Shell				15					
polation, interpolation and	E.5.2	5.0	R	√3	1	1	2.89	2.89	
ration Algoritms for Max.				,,,					
Evaluation									
le				•					
e axis to liquid Distance	8,E.4.2	1.00	N		1	1	0.58	0.58	N
				√3					_
									1
power and SAR drift	8,6.6.2	2.74	R		1	1	1.58	1.58	
-				¥3					
		1	1					1	1
power and SAR drift urement tom and Tissue Parameters		2.74	R	√3	1	1	1.58		1.58





Phantom Uncertainty (Shape and	E.3.1	0.05	R	√3	1	1	0.03	0.03	
thickness tolerances)				13					
Liquid conductivity - deviation	E.3.2	4.57	R	√3	0.64	0.43	1.69	1.13	
from target value				13					
Liquid conductivity -	E.3.3	5.00	N	1	0.64	0.43	3.20	2.15	M
measurement uncertainty									
Liquid permittivity - deviation	E.3.2	3.69	R	√3	0.6	0.49	1.28	1.04	
from target value				13					
Liquid permittivity -	E.3.3	10.00	N	1	0.6	0.49	6.00	4.90	M
measurement uncertainty									
Combined Standard Uncertainty			RSS				11.50	10.61	
Expanded Uncertainty			k				23.00	21.21	
(95% Confidence interval)									



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 and 1900 MHz. 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		

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	1900MHz
Target value (1g)	9.805 W/Kg	39.18 W/Kg
250 mW input power	2.383 W/Kg	9.716 W/Kg
Test value (1g)	9.532 W/Kg	38.864 W/Kg

Note: System checks the specific test data please see page 74-77.

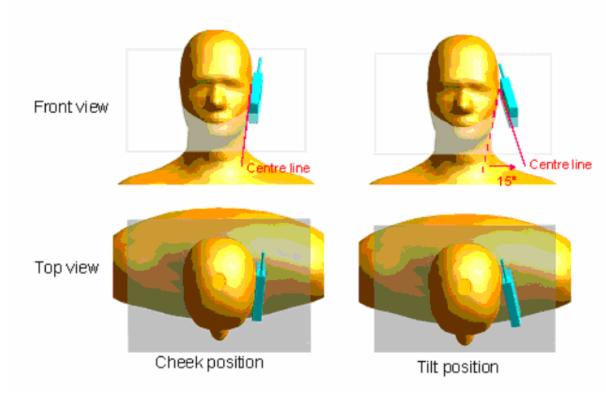


8. Operational Conditions During Test

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. 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 to 16 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.

8.3. 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. Test Results List

Summary of Measurement Results (GSM 850MHz Band)

Temperature: 21.0~23.8°C, humidity: 54~60%.						
		SAR(W/Kg)				
Phantom	Device Test	Device T	Device Test channel, Frequency			
Configurations	Positions			Channel		
	rositions			251		
		824.2MHz	836.6MHz	848.8MHz		
Right Side	Cheek/Touch	1.026	1.114	1.122		
Of Head	Ear/Tilt	0.630	0.690	0.612		
Left Side	Left Side Cheek/Touch		1.057	1.078		
Of Head	Ear/Tilt	0.714	0.691	0.622		

Summary of Measurement Results (GSM 1900MHz Band)

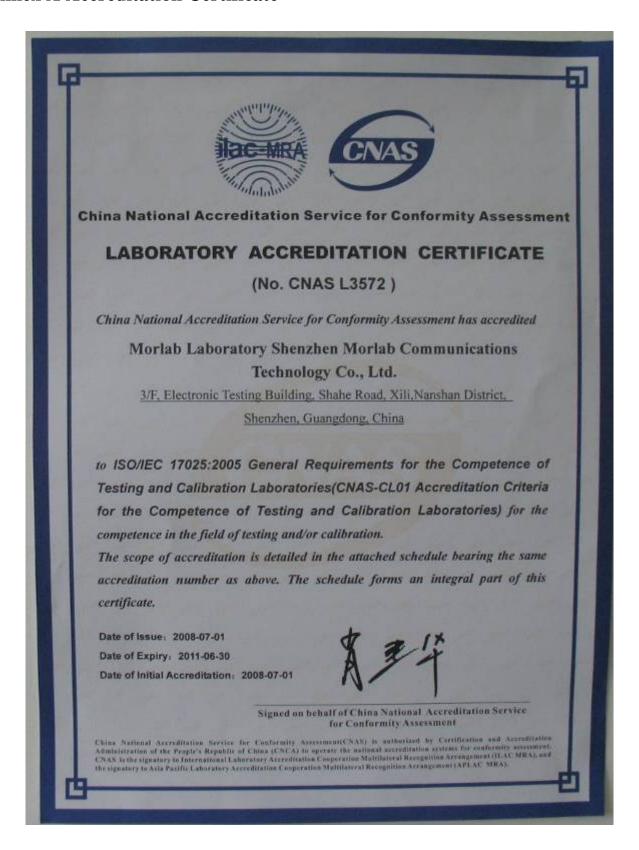
Temperature: 21.0~23.8°C, humidity: 54~60%.							
		SAR(W/Kg)					
Phantom Configurations	Device Test	Device T	requency				
	Positions	Channel	Channel	Channel			
		512	661	810			
		1850.2MHz	1880.0MHz	1909.8MHz			
Right Side	Cheek/Touch	0.501	0.406	0.556			
Of Head	Of Head Ear/Tilt		0.375	0.440			
Left Side	Left Side Cheek/Touch		0.531	0.550			
Of Head	Ear/Tilt	0.382	0.410	0.411			

Output Power

Band	Channal	Frequency (MHz)	Output Power		
	Channel		(dBm)		
GSM (GMSK)	128	824.2	31.74		
	192	836.6	32.02		
	251	848.8	32.24		
PCS (GMSK)	512	1850.2	28.90		
	661	1880.0	28.53		
	810	1909.8	29.21		



Annex A Accreditation Certificate



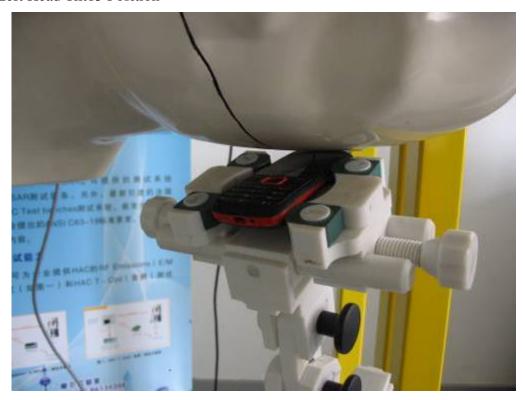


Annex B EUT Setup Photos

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





Liquid Level Photo





Annex C Graph Test Results

TYPE	BAND	<u>PARAMETERS</u>			
		Measurement 1: Right Head with Cheek device position			
		on Low Channel in GSM mode			
		Measurement 2: Right Head with Cheek device position			
		on Middle Channel in GSM mode			
		Measurement 3: Right Head with Cheek device position			
		on High Channel in GSM mode			
		Measurement 4: Right Head with Tilt device position on			
		Low Channel in GSM mode			
		Measurement 5: Right Head with Tilt device position on			
		Middle Channel in GSM mode			
		Measurement 6: Right Head with Tilt device position on			
	GSM850	High Channel in GSM mode			
	<u> </u>	Measurement 7: Left Head with Cheek device position			
		on Low Channel in GSM mode			
		Measurement 8: Left Head with Cheek device position			
		on Middle Channel in GSM mode			
		Measurement 9: Left Head with Cheek device position			
		on High Channel in GSM mode			
		Measurement 10: Left Head with Tilt device position on			
		Low Channel in GSM mode			
		Measurement 11: Left Head with Tilt device position on			
		Middle Channel in GSM mode			
		Measurement 12: Left Head with Tilt device position on			
		High Channel in GSM mode			
		Measurement 13: Right Head with Cheek device position			
		on Low Channel in GSM mode			
		Measurement 14: Right Head with Cheek device position			
		on Middle Channel in GSM mode			
		Measurement 15: Right Head with Cheek device position			
		on High Channel in GSM mode			
		Measurement 16: Right Head with Tilt device position on			
	G G 7	Low Channel in GSM mode			
	GSM1900	Measurement 17: Right Head with Tilt device position on			
		Middle Channel in GSM mode			
		Measurement 18: Right Head with Tilt device position on			
		High Channel in GSM mode			
		Measurement 19: Left Head with Cheek device position			
		on Low Channel in GSM mode			
		Measurement 20: Left Head with Cheek device position			
		on Middle Channel in GSM mode			
		Measurement 21: Left Head with Cheek device position			



	TI' 1 (1) 1' (1) 1' (1)
	on High Channel in GSM mode
	Measurement 22: Left Head with Tilt device position on
	Low Channel in GSM mode
	Measurement 23: Left Head with Tilt device position on
	Middle Channel in GSM mode
	Measurement 24: Left Head with Tilt device position on
	High Channel in GSM mode
	Tigh chamer in colvi mode



MEASUREMENT 1

Type: Phone measurement (Complete)

Area scan resolution: dx=8mm,dy=8mm

Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 11/5/2011

Measurement duration: 7 minutes 32 seconds

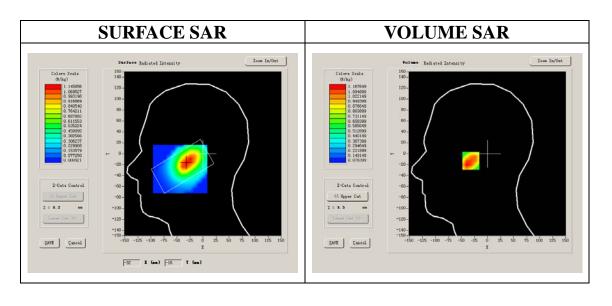
A. Experimental conditions.

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

B. SAR Measurement Results

Lower Band SAR (Channel 128):

1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Frequency (MHz)	824.200012
Relative permittivity (real part)	41.790001
Relative permittivity	18.926250
Conductivity (S/m)	0.866612
Power Drift (%)	-1.190000
Ambient Temperature:	22.0°C
Liquid Temperature:	21.7C
ConvF:	28.479,25.214,27.196
Crest factor:	1:8



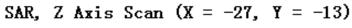


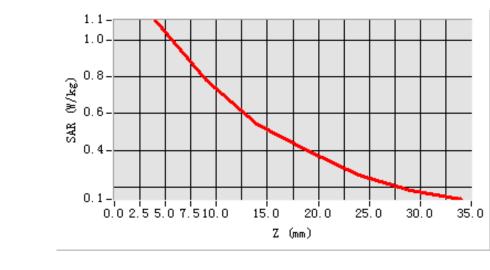
Maximum location: X=-27.00, Y=-13.00

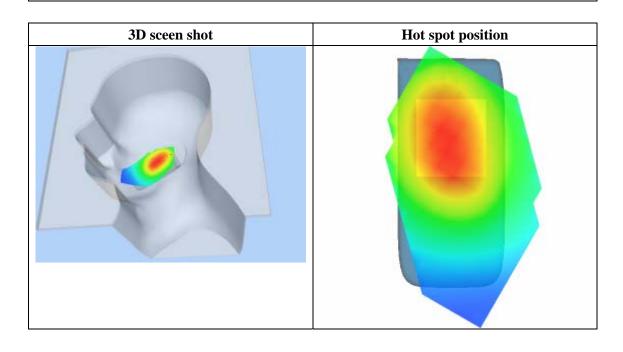
SAR 10g (W/Kg)	0.715035		
SAR 1g (W/Kg)	1.026154		

Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	1.1066	0.7831	0.5428	0.3974	0.2670	0.1843
(W/Kg)							









MEASUREMENT 2

Type: Phone measurement (Complete)

Area scan resolution: dx=8mm,dy=8mm

Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 11/5/2011

Measurement duration: 7 minutes 28 seconds

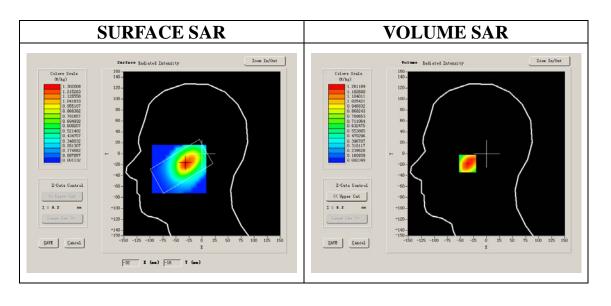
A. Experimental conditions.

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)	836.599976			
Relative permittivity (real part)	40.669998			
Relative permittivity	19.120001			
Conductivity (S/m)	0.888655			
Power Drift (%)	-1.490000			
Ambient Temperature:	22.0°C			
Liquid Temperature:	21.7C			
ConvF:	28.479,25.214,27.196			
Crest factor:	1:8			



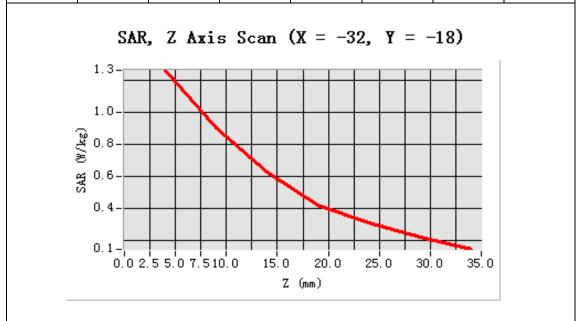


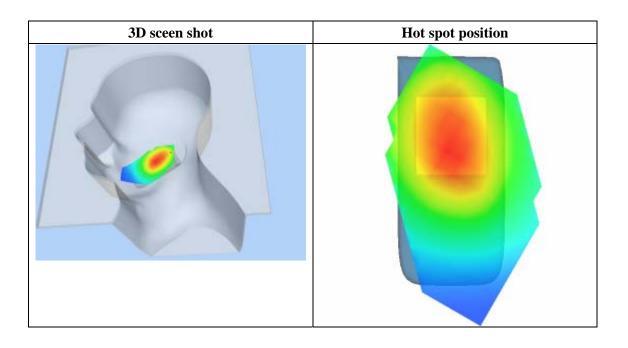
Maximum location: X=-32.00, Y=-18.00

SAR 10g (W/Kg)	0.797231		
SAR 1g (W/Kg)	1.114364		

Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	1.2612	0.9001	0.6235	0.4233	0.3087	0.2169
(W/Kg)							







MEASUREMENT 3

Type: Phone measurement (Complete)

Area scan resolution: dx=8mm,dy=8mm

Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 11/5/2011

Measurement duration: 7 minutes 35 seconds

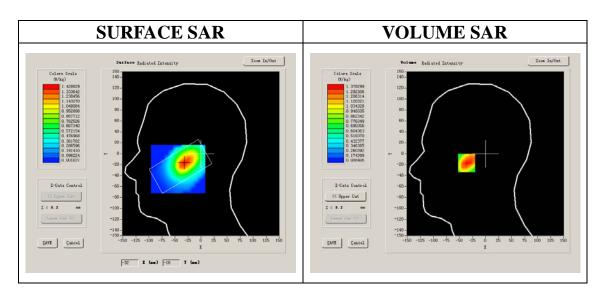
A. Experimental conditions.

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

B. SAR Measurement Results

Higher Band SAR (Channel 251):

er Bana Britt (Chamier 251).				
Frequency (MHz)	848.799988			
Relative permittivity (real part)	41.675999			
Relative permittivity	18.967199			
Conductivity (S/m)	0.894409			
Power Drift (%)	-0.650000			
Ambient Temperature:	22.0°C			
Liquid Temperature:	21.7C			
ConvF:	28.479,25.214,27.196			
Crest factor:	1:8			



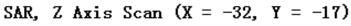


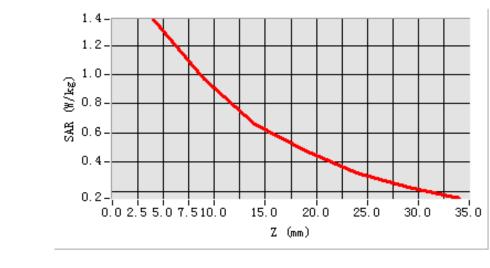
Maximum location: X=-32.00, Y=-17.00

SAR 10g (W/Kg)	0.858108
SAR 1g (W/Kg)	1.122116

Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	1.3783	0.9694	0.6578	0.4764	0.3256	0.2270
(W/Kg)							









MEASUREMENT 4

Type: Phone measurement (Complete)

Area scan resolution: dx=8mm,dy=8mm

Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 11/5/2011

Measurement duration: 7 minutes 43 seconds

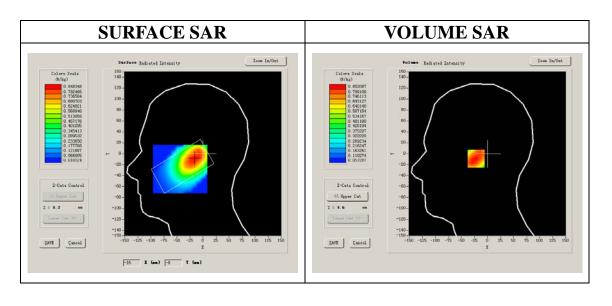
A. Experimental conditions.

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

B. SAR Measurement Results

Lower Band SAR (Channel 128):

1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				
Frequency (MHz)	824.200012			
Relative permittivity (real part)	41.790001			
Relative permittivity	18.926250			
Conductivity (S/m)	0.866612			
Power Drift (%)	-1.870000			
Ambient Temperature:	22.0°C			
Liquid Temperature:	21.7C			
ConvF:	28.479,25.214,27.196			
Crest factor:	1:8			



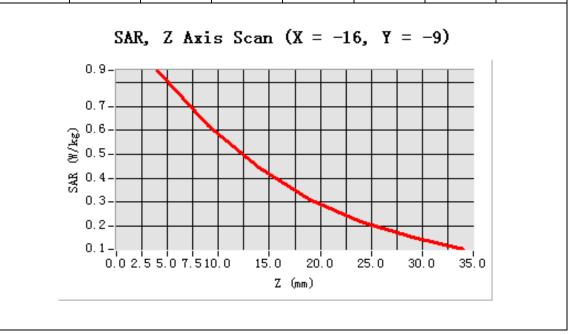


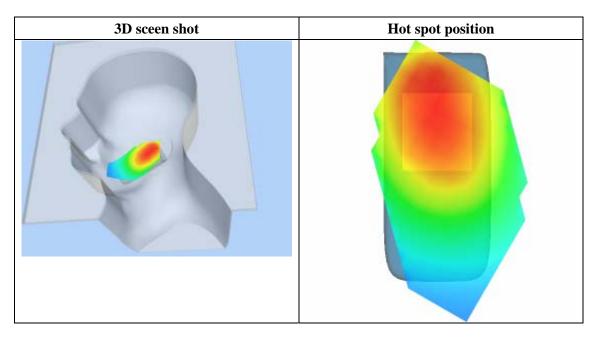
Maximum location: X=-16.00, Y=-9.00

SAR 10g (W/Kg)	0.458686		
SAR 1g (W/Kg)	0.630442		

Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.8521	0.6209	0.4455	0.3085	0.2188	0.1513
(W/Kg)							







MEASUREMENT 5

Type: Phone measurement (Complete)

Area scan resolution: dx=8mm,dy=8mm

Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 11/5/2011

Measurement duration: 7 minutes 25 seconds

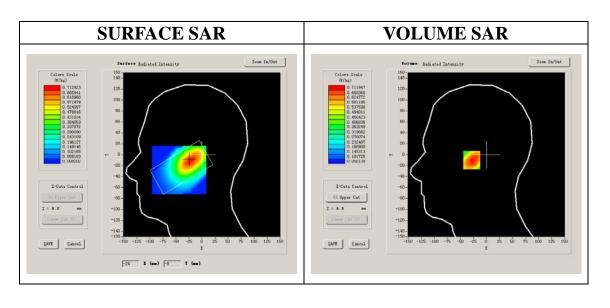
A. Experimental conditions.

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)	836.599976
Relative permittivity (real part)	40.669998
Relative permittivity	19.120001
Conductivity (S/m)	0.888655
Power Drift (%)	-0.990000
Ambient Temperature:	22.0°C
Liquid Temperature:	21.7C
ConvF:	28.479,25.214,27.196
Crest factor:	1:8



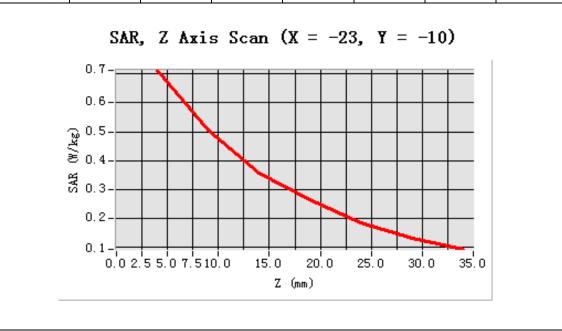


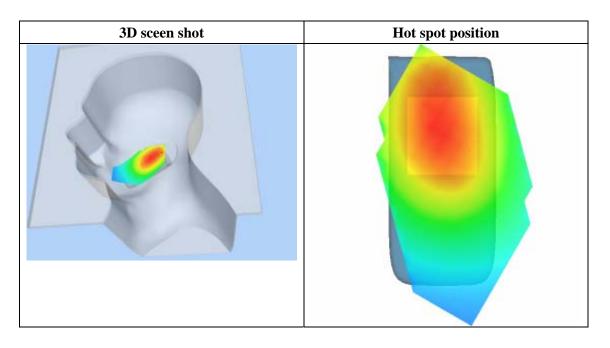
Maximum location: X=-23.00, Y=-10.00

SAR 10g (W/Kg)	0.461321	
SAR 1g (W/Kg)	0.690229	

Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.7119	0.5054	0.3572	0.2647	0.1864	0.1304
(W/Kg)							







MEASUREMENT 6

Type: Phone measurement (Complete)

Area scan resolution: dx=8mm,dy=8mm

Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 11/5/2011

Measurement duration: 7 minutes 44 seconds

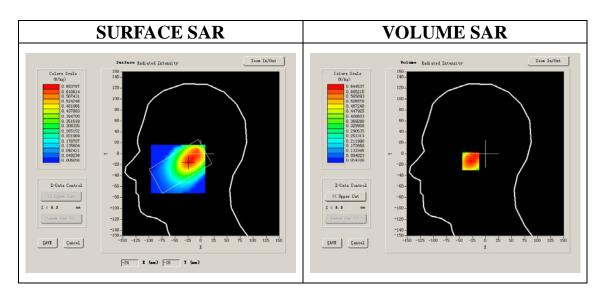
A. Experimental conditions.

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

B. SAR Measurement Results

Higher Band SAR (Channel 251):

er Bana Britt (Chamier 251).	
Frequency (MHz)	848.799988
Relative permittivity (real part)	41.675999
Relative permittivity	18.967199
Conductivity (S/m)	0.894409
Power Drift (%)	-1.680000
Ambient Temperature:	22.0°C
Liquid Temperature:	21.7C
ConvF:	28.479,25.214,27.196
Crest factor:	1:8

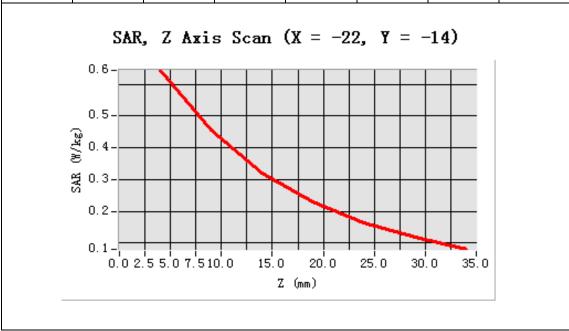


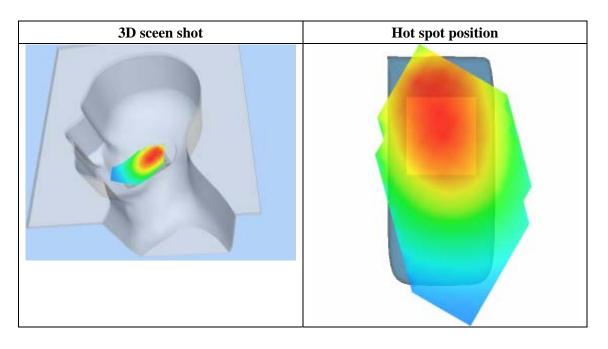


Maximum location: X=-22.00, Y=-14.00

SAR 10g (W/Kg)	0.422377
SAR 1g (W/Kg)	0.612852

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.6445	0.4572	0.3223	0.2292	0.1640	0.1199
(W/Kg)							







Type: Phone measurement (Complete)

Area scan resolution: dx=8mm,dy=8mm

Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 11/5/2011

Measurement duration: 7 minutes 26 seconds

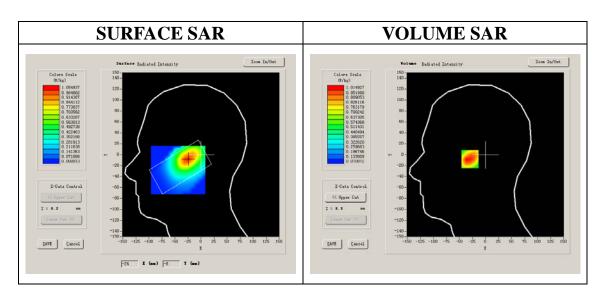
A. Experimental conditions.

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

B. SAR Measurement Results

Lower Band SAR (Channel 128):

	004 000010
Frequency (MHz)	824.200012
Relative permittivity (real part)	41.790001
Relative permittivity	18.926250
Conductivity (S/m)	0.866612
Power Drift (%)	-2.080000
Ambient Temperature:	22.0°C
Liquid Temperature:	21.7C
ConvF:	28.479,25.214,27.196
Crest factor:	1:8

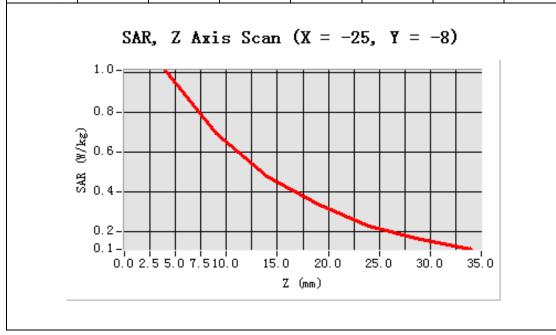


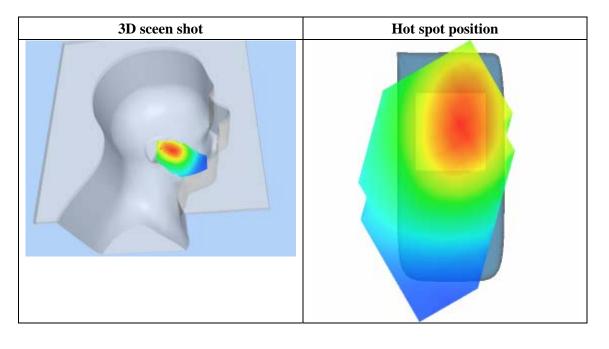


Maximum location: X=-25.00, Y=-8.00

SAR 10g (W/Kg)	0.622829
SAR 1g (W/Kg)	0.981920

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	1.0108	0.6937	0.4757	0.3352	0.2267	0.1566
(W/Kg)							







Type: Phone measurement (Complete)

Area scan resolution: dx=8mm,dy=8mm

Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 11/5/2011

Measurement duration: 7 minutes 33 seconds

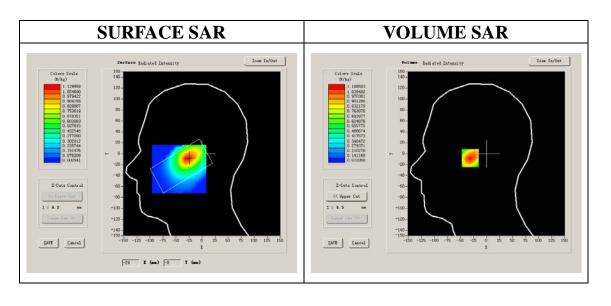
A. Experimental conditions.

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)	836.599976
Relative permittivity (real part)	40.669998
Relative permittivity	19.120001
Conductivity (S/m)	0.888655
Power Drift (%)	-1.940000
Ambient Temperature:	22.0°C
Liquid Temperature:	21.7C
ConvF:	28.479,25.214,27.196
Crest factor:	1:8

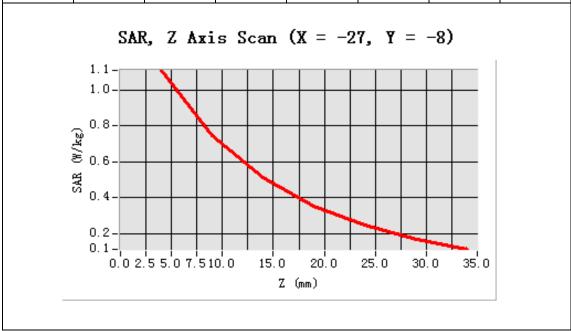


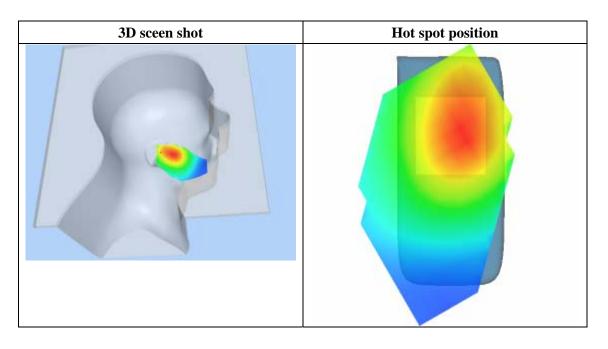


Maximum location: X=-27.00, Y=-8.00

SAR 10g (W/Kg)	0.674639
SAR 1g (W/Kg)	1.057489

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	1.1086	0.7447	0.5122	0.3534	0.2464	0.1674
(W/Kg)							







Type: Phone measurement (Complete)

Area scan resolution: dx=8mm,dy=8mm

Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 11/5/2011

Measurement duration: 7 minutes 26 seconds

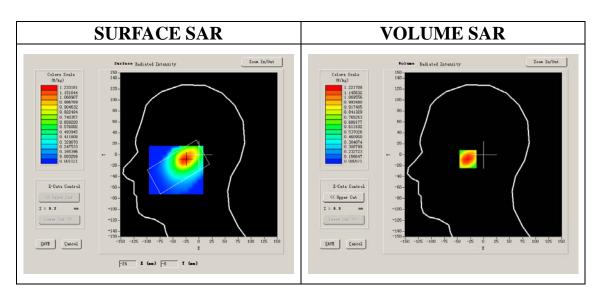
A. Experimental conditions.

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

B. SAR Measurement Results

Higher Band SAR (Channel 251):

er Bana Britt (Chamier 251).	
Frequency (MHz)	848.799988
Relative permittivity (real part)	41.675999
Relative permittivity	18.967199
Conductivity (S/m)	0.894409
Power Drift (%)	-0.340000
Ambient Temperature:	22.0°C
Liquid Temperature:	21.7C
ConvF:	28.479,25.214,27.196
Crest factor:	1:8

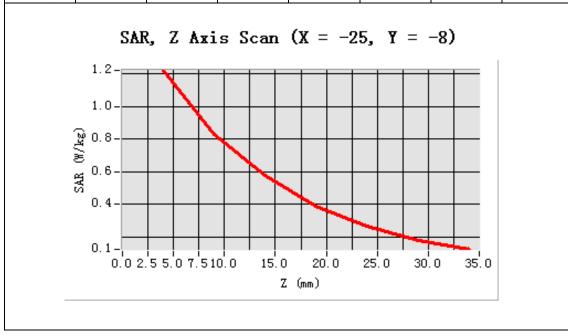


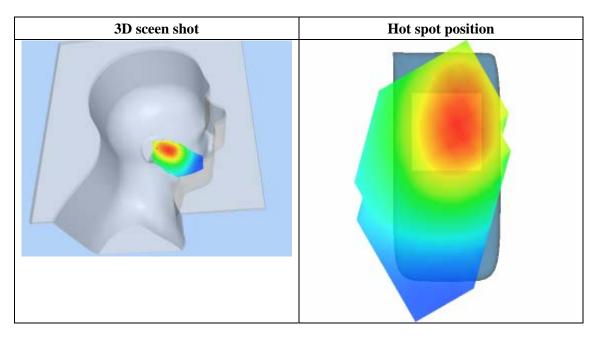


Maximum location: X=-25.00, Y=-8.00

SAR 10g (W/Kg)	0.755911
SAR 1g (W/Kg)	1.077727

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	1.2217	0.8277	0.5776	0.3902	0.2685	0.1816
(W/Kg)							







Type: Phone measurement (Complete)

Area scan resolution: dx=8mm,dy=8mm

Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 11/5/2011

Measurement duration: 7 minutes 40 seconds

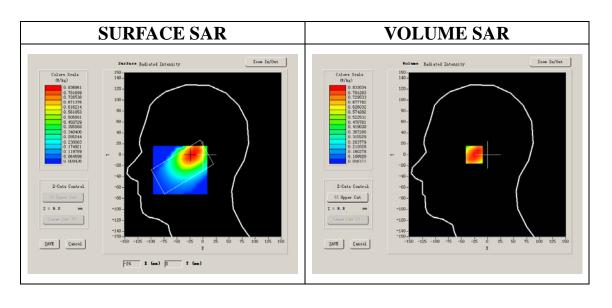
A. Experimental conditions.

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

B. SAR Measurement Results

Lower Band SAR (Channel 128):

(2.531.)	00400040
Frequency (MHz)	824.200012
Relative permittivity (real part)	41.790001
Relative permittivity	18.926250
Conductivity (S/m)	0.866612
Power Drift (%)	-1.290000
Ambient Temperature:	22.0°C
Liquid Temperature:	21.7C
ConvF:	28.479,25.214,27.196
Crest factor:	1:8

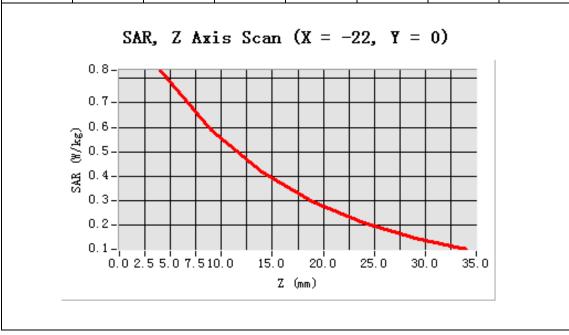


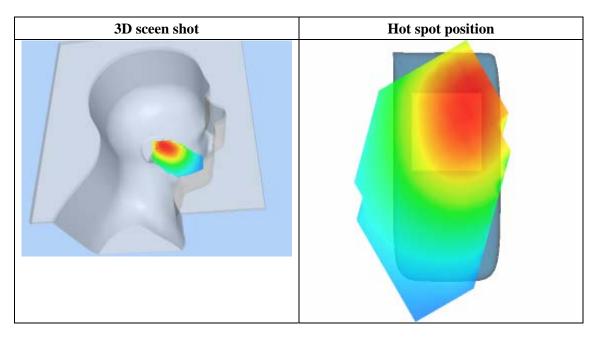


Maximum location: X=-22.00, Y=0.00

SAR 10g (W/Kg)	0.451583		
SAR 1g (W/Kg)	0.714375		

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.8318	0.5905	0.4199	0.2962	0.2098	0.1504
(W/Kg)							







Type: Phone measurement (Complete)

Area scan resolution: dx=8mm,dy=8mm

Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 11/5/2011

Measurement duration: 7 minutes 28 seconds

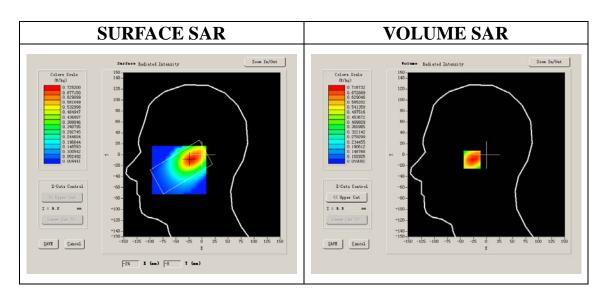
A. Experimental conditions.

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)	836.599976
Relative permittivity (real part)	40.669998
Relative permittivity	19.120001
Conductivity (S/m)	0.888655
Power Drift (%)	-0.160000
Ambient Temperature:	22.0°C
Liquid Temperature:	21.7C
ConvF:	28.479,25.214,27.196
Crest factor:	1:8

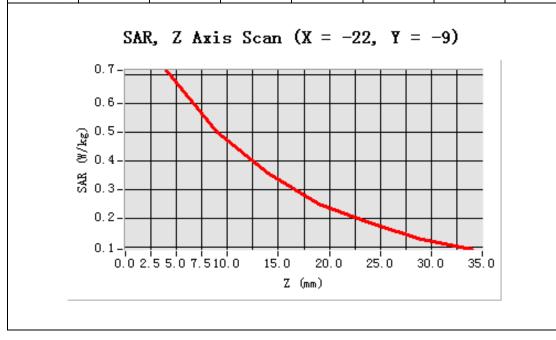


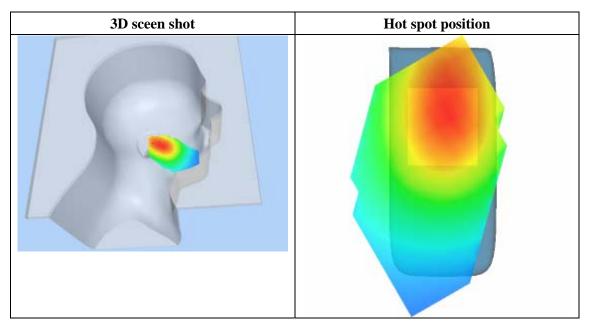


Maximum location: X=-22.00, Y=-9.00

SAR 10g (W/Kg)	0.461168
SAR 1g (W/Kg)	0.691084

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.7167	0.5024	0.3593	0.2513	0.1825	0.1268
(W/Kg)							







Type: Phone measurement (Complete)

Area scan resolution: dx=8mm,dy=8mm

Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 11/5/2011

Measurement duration: 7 minutes 39 seconds

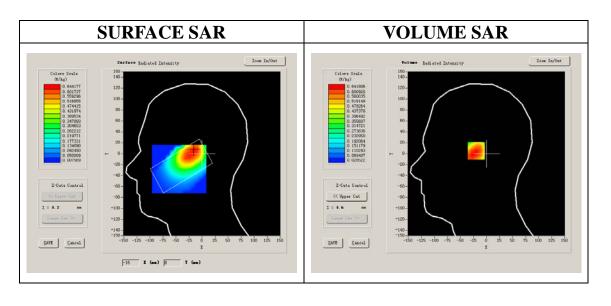
A. Experimental conditions.

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

B. SAR Measurement Results

Higher Band SAR (Channel 251):

<u> </u>	
Frequency (MHz)	848.799988
Relative permittivity (real part)	41.675999
Relative permittivity	18.967199
Conductivity (S/m)	0.894409
Power Drift (%)	-0.400000
Ambient Temperature:	22.0°C
Liquid Temperature:	21.7C
ConvF:	28.479,25.214,27.196
Crest factor:	1:8

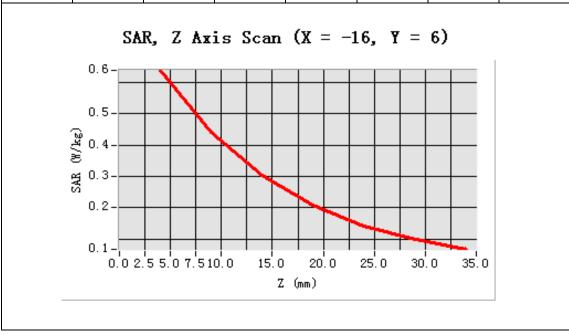


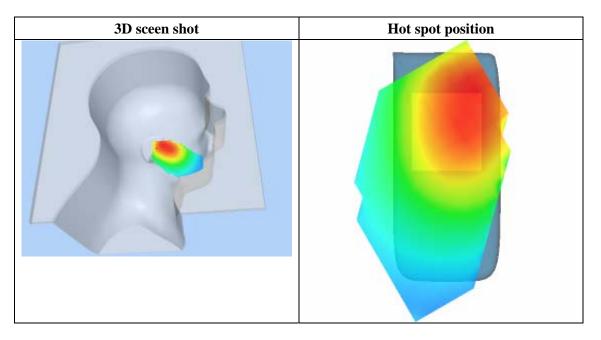


Maximum location: X=-16.00, Y=6.00

SAR 10g (W/Kg)	0.420696
SAR 1g (W/Kg)	0.622151

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.6387	0.4395	0.3023	0.2067	0.1423	0.1003
(W/Kg)							







Type: Phone measurement (Complete)

Area scan resolution: dx=8mm,dy=8mm

Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 11/5/2011

Measurement duration: 7 minutes 23 seconds

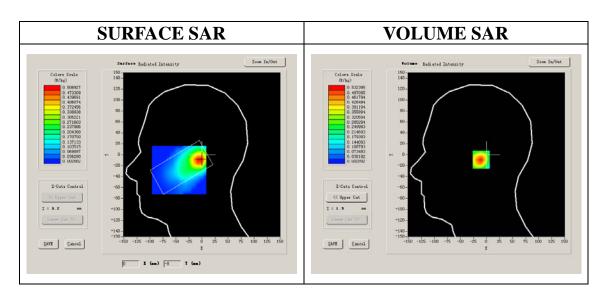
A. Experimental conditions.

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

B. SAR Measurement Results

Lower Band SAR (Channel 512):

Frequency (MHz)	1850.199951
Relative permittivity (real part)	39.993999
Relative permittivity	12.991650
Conductivity (S/m)	1.335397
Power Drift (%)	0.790000
Ambient Temperature:	22.0°C
Liquid Temperature:	21.7C
ConvF:	40.136,34.843,38.721
Crest factor:	1:8

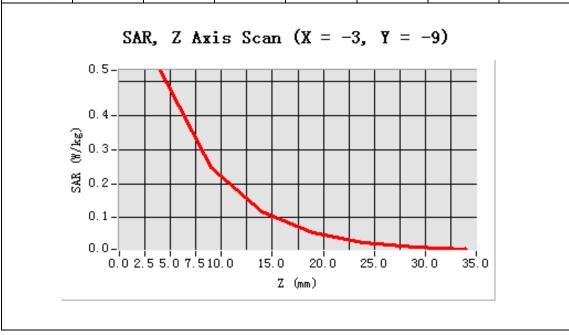


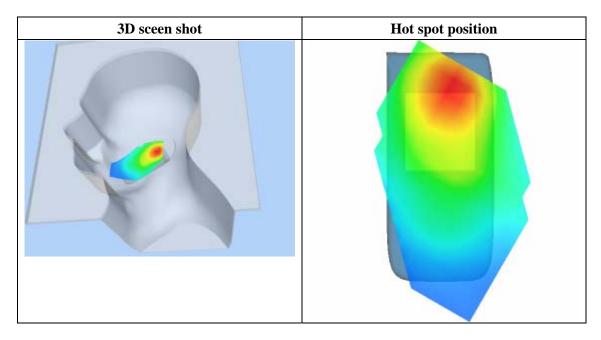


Maximum location: X=-3.00, Y=-9.00

SAR 10g (W/Kg)	0.248368
SAR 1g (W/Kg)	0.501347

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.5324	0.2480	0.1184	0.0567	0.0273	0.0136
(W/Kg)							







Type: Phone measurement (Complete)

Area scan resolution: dx=8mm,dy=8mm

Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 11/5/2011

Measurement duration: 7 minutes 29 seconds

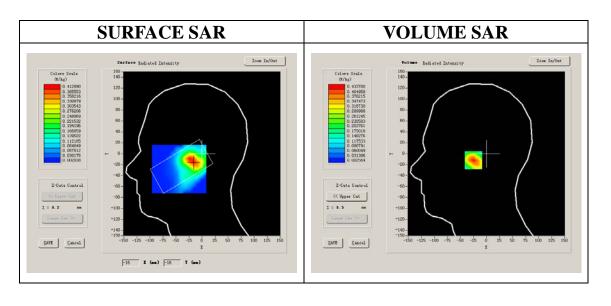
A. Experimental conditions.

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

B. SAR Measurement Results

Middle Band SAR (Channel 661):

Frequency (MHz)	1880.000000
Relative permittivity (real part)	38.509998
Relative permittivity	13.750000
Conductivity (S/m)	1.436111
Power Drift (%)	-0.490000
Ambient Temperature:	22.0°C
Liquid Temperature:	21.7C
ConvF:	40.136,34.843,38.721
Crest factor:	1:8

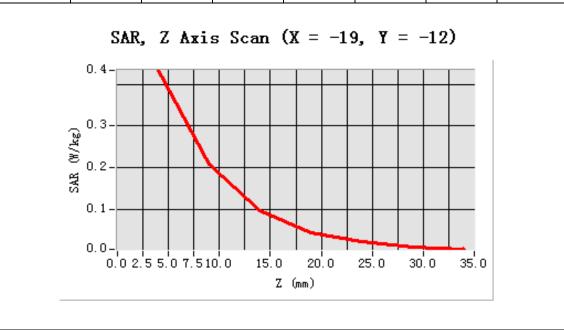


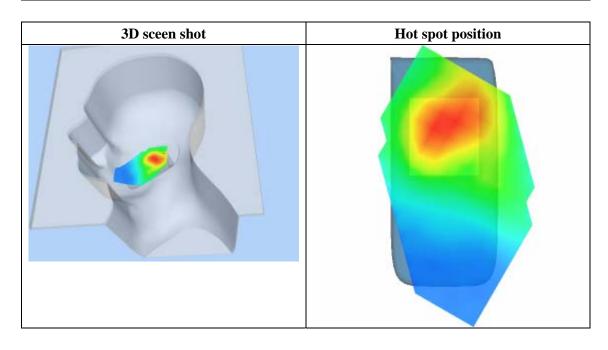


Maximum location: X=-19.00, Y=-12.00

SAR 10g (W/Kg)	0.200577
SAR 1g (W/Kg)	0.406790

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.4337	0.2081	0.0967	0.0449	0.0224	0.0109
(W/Kg)							







Type: Phone measurement (Complete)

Area scan resolution: dx=8mm,dy=8mm

Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 11/5/2011

Measurement duration: 7 minutes 22 seconds

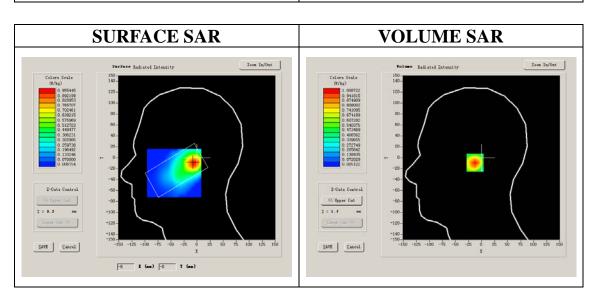
A. Experimental conditions.

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

B. SAR Measurement Results

Higher Band SAR (Channel 810):

er Bund Britt (Chamier 616).	
Frequency (MHz)	1909.800049
Relative permittivity (real part)	39.929001
Relative permittivity	13.156500
Conductivity (S/m)	1.395905
Power Drift (%)	0.850000
Ambient Temperature:	22.0°C
Liquid Temperature:	21.7C
ConvF:	40.136,34.843,38.721
Crest factor:	1:8

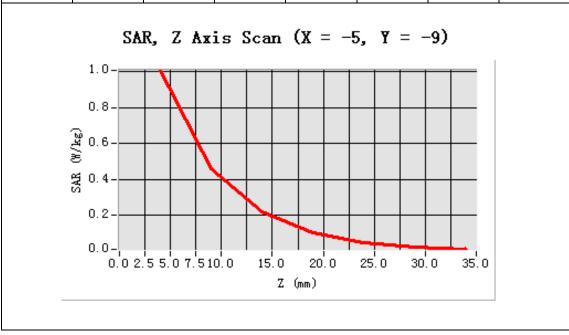


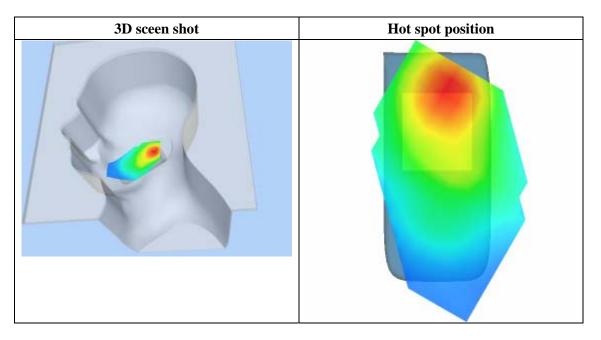


Maximum location: X=-5.00, Y=-9.00

SAR 10g (W/Kg)	0.270834
SAR 1g (W/Kg)	0.556311

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	1.0087	0.4603	0.2211	0.1050	0.0498	0.0243
(W/Kg)							







Type: Phone measurement (Complete)

Area scan resolution: dx=8mm,dy=8mm

Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 11/5/2011

Measurement duration: 7 minutes 22 seconds

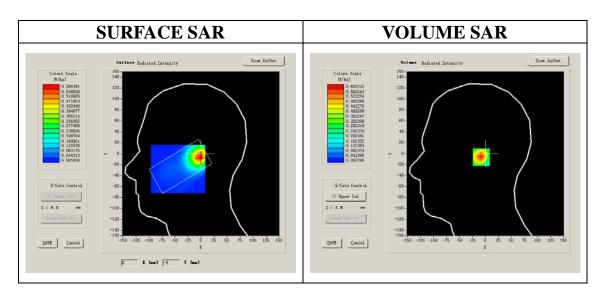
A. Experimental conditions.

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

B. SAR Measurement Results

Lower Band SAR (Channel 512):

Frequency (MHz)	1850.199951
Relative permittivity (real part)	39.993999
Relative permittivity	12.991650
Conductivity (S/m)	1.335397
Power Drift (%)	1.720000
Ambient Temperature:	22.0°C
Liquid Temperature:	21.7C
ConvF:	40.136,34.843,38.721
Crest factor:	1:8

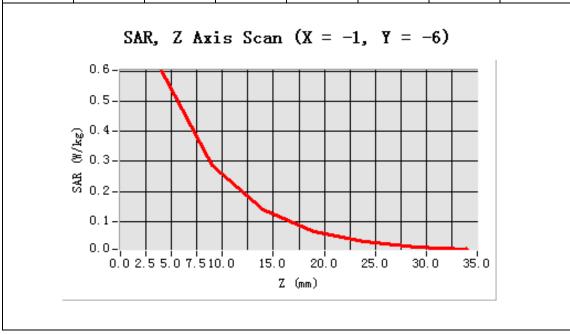


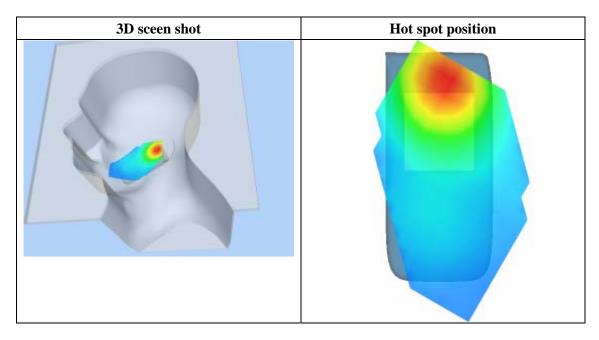


Maximum location: X=-1.00, Y=-6.00

SAR 10g (W/Kg)	0.201480
SAR 1g (W/Kg)	0.407933

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.6022	0.2855	0.1382	0.0658	0.0322	0.0161
(W/Kg)							







Type: Phone measurement (Complete)

Area scan resolution: dx=8mm,dy=8mm

Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 11/5/2011

Measurement duration: 7 minutes 28 seconds

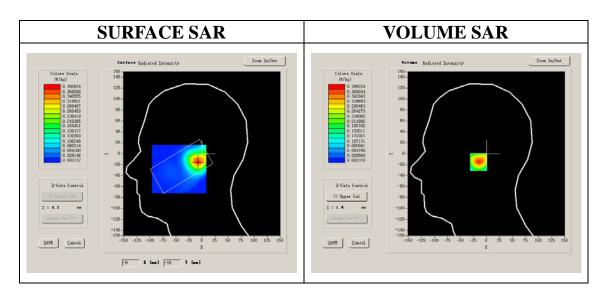
A. Experimental conditions.

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

B. SAR Measurement Results

Middle Band SAR (Channel 661):

Frequency (MHz)	1880.000000
Relative permittivity (real part)	38.509998
Relative permittivity	13.750000
Conductivity (S/m)	1.436111
Power Drift (%)	-0.670000
Ambient Temperature:	22.0°C
Liquid Temperature:	21.7C
ConvF:	40.136,34.843,38.721
Crest factor:	1:8

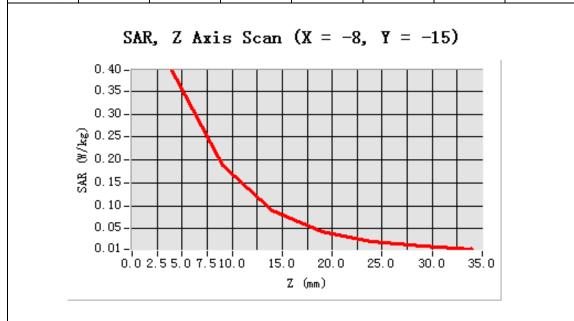


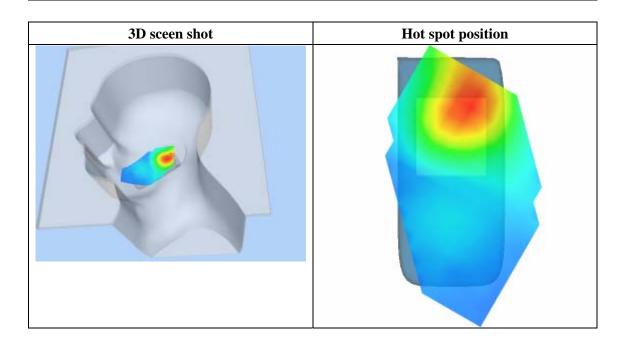


Maximum location: X=-8.00, Y=-15.00

SAR 10g (W/Kg)	0.185910
SAR 1g (W/Kg)	0.374696

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.3952	0.1873	0.0887	0.0435	0.0219	0.0113
(W/Kg)							







Type: Phone measurement (Complete)

Area scan resolution: dx=8mm,dy=8mm

Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 11/5/2011

Measurement duration: 7 minutes 23 seconds

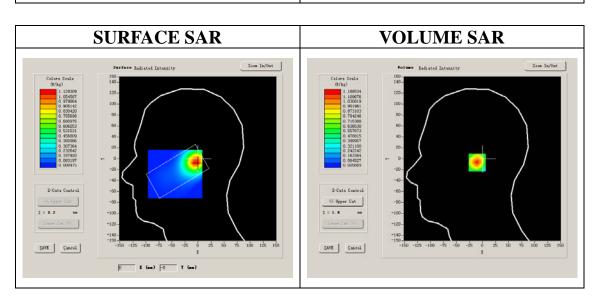
A. Experimental conditions.

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

B. SAR Measurement Results

Higher Band SAR (Channel 810):

· · · · · · · · · · · · · · · · · · ·	
Frequency (MHz)	1909.800049
Relative permittivity (real part)	39.929001
Relative permittivity	13.156500
Conductivity (S/m)	1.395905
Power Drift (%)	1.010000
Ambient Temperature:	22.0°C
Liquid Temperature:	21.7C
ConvF:	40.136,34.843,38.721
Crest factor:	1:8

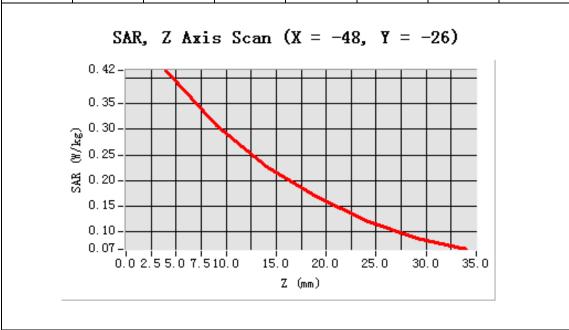


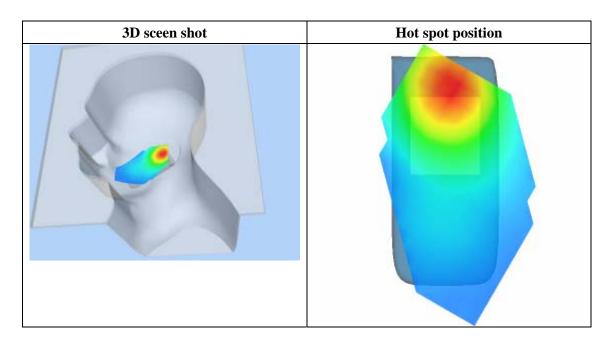


Maximum location: X=-48.00, Y=-26.00

SAR 10g (W/Kg)	0.231900
SAR 1g (W/Kg)	0.440216

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.4389	0.1276	0.0662	0.0337	0.0175	0.0101
(W/Kg)							







ype: Phone measurement (Complete)

Area scan resolution: dx=8mm,dy=8mm

Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 11/5/2011

Measurement duration: 7 minutes 23 seconds

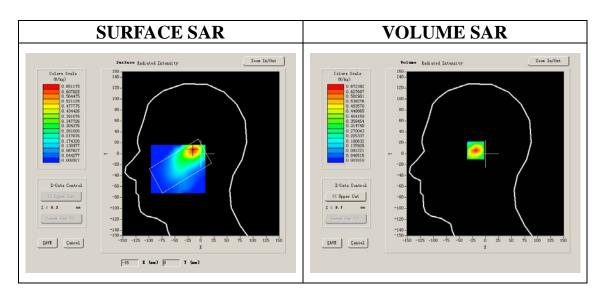
A. Experimental conditions.

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

B. SAR Measurement Results

Lower Band SAR (Channel 512):

Build Billt (Chamier 512):	
Frequency (MHz)	1850.199951
Relative permittivity (real part)	39.993999
Relative permittivity	12.991650
Conductivity (S/m)	1.335397
Power Drift (%)	-0.960000
Ambient Temperature:	22.0°C
Liquid Temperature:	21.7C
ConvF:	40.136,34.843,38.721
Crest factor:	1:8

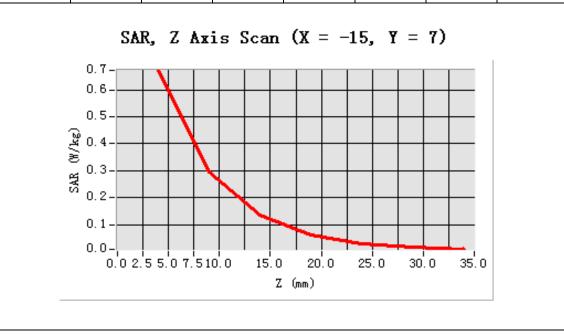


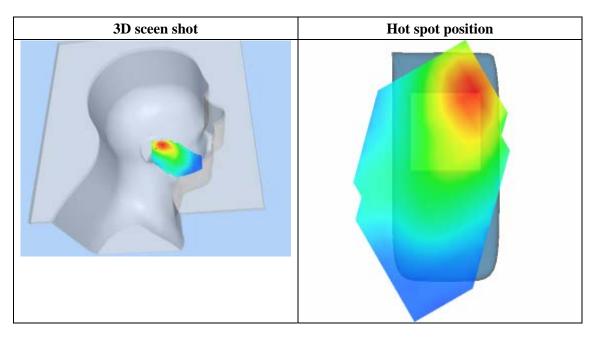


Maximum location: X=-15.00, Y=7.00

SAR 10g (W/Kg)	0.294798
SAR 1g (W/Kg)	0.622389

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.6724	0.2937	0.1338	0.0634	0.0276	0.0154
(W/Kg)							







Type: Phone measurement (Complete)

Area scan resolution: dx=8mm,dy=8mm

Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 11/5/2011

Measurement duration: 7 minutes 27 seconds

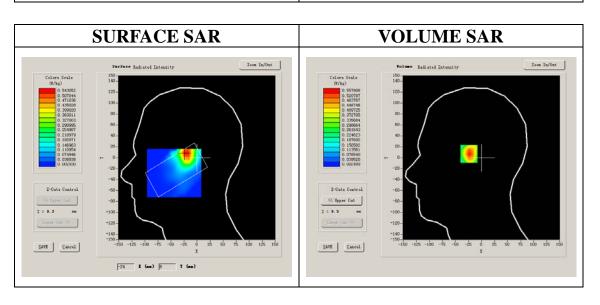
A. Experimental conditions.

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

B. SAR Measurement Results

Middle Band SAR (Channel 661):

The Build Stiff (Chaimer 661):	
Frequency (MHz)	1880.000000
Relative permittivity (real part)	38.509998
Relative permittivity	13.750000
Conductivity (S/m)	1.436111
Power Drift (%)	-0.490000
Ambient Temperature:	22.0°C
Liquid Temperature:	21.7C
ConvF:	40.136,34.843,38.721
Crest factor:	1:8

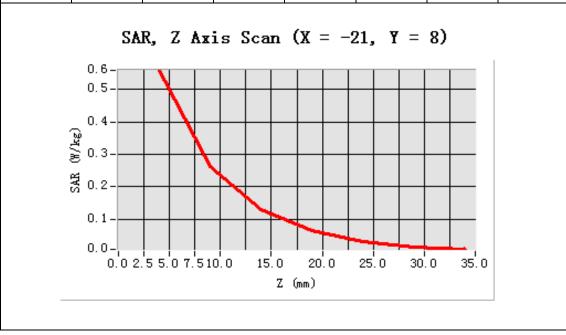


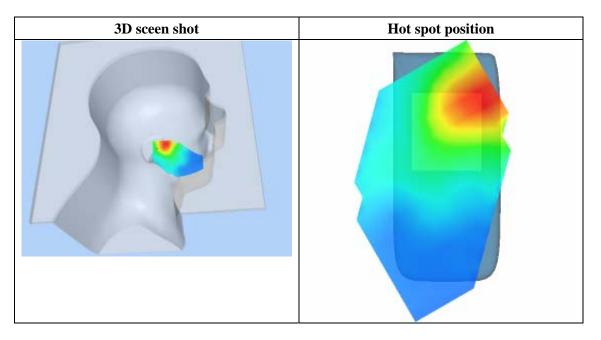


Maximum location: X=-21.00, Y=8.00

SAR 10g (W/Kg)	0.266766
SAR 1g (W/Kg)	0.530505

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.5578	0.2634	0.1287	0.0652	0.0306	0.0161
(W/Kg)							







Type: Phone measurement (Complete)

Area scan resolution: dx=8mm,dy=8mm

Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 11/5/2011

Measurement duration: 7 minutes 23 seconds

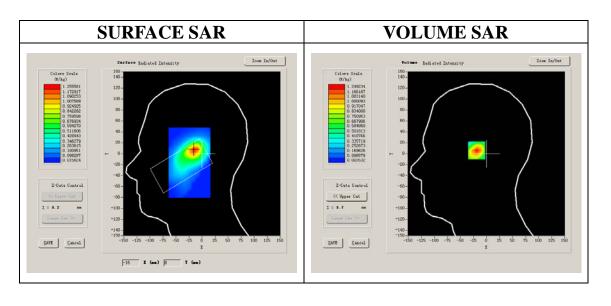
A. Experimental conditions.

Phantom File	zinf3.txt
Phantom	Left head
Device Position	Cheek
Band	GSM1900
Channels	High
Signal	GSM

B. SAR Measurement Results

Higher Band SAR (Channel 810):

or a write print (or write or a).	
Frequency (MHz)	1909.800049
Relative permittivity (real part)	39.929001
Relative permittivity	13.156500
Conductivity (S/m)	1.395905
Power Drift (%)	0.920000
Ambient Temperature:	22.0°C
Liquid Temperature:	21.7C
ConvF:	40.136,34.843,38.721
Crest factor:	1:8

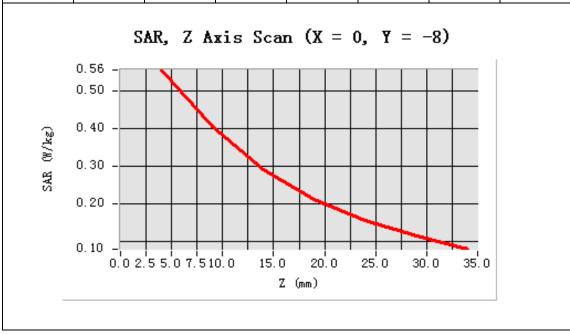


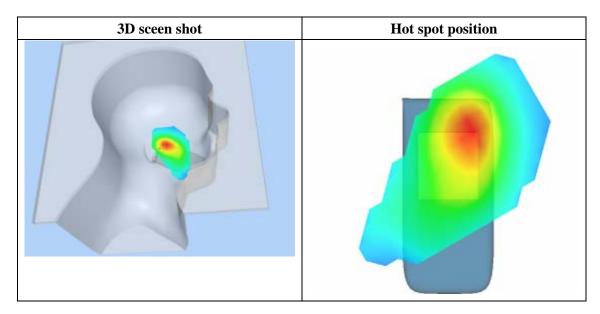


Maximum location: X=0.00, Y=-8.00

SAR 10g (W/Kg)	0.284521
SAR 1g (W/Kg)	0.550081

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.5461	0.2846	0.1376	0.0705	0.0348	0.0186
(W/Kg)							







Type: Phone measurement (Complete)

Area scan resolution: dx=8mm,dy=8mm

Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 11/5/2011

Measurement duration: 7 minutes 23 seconds

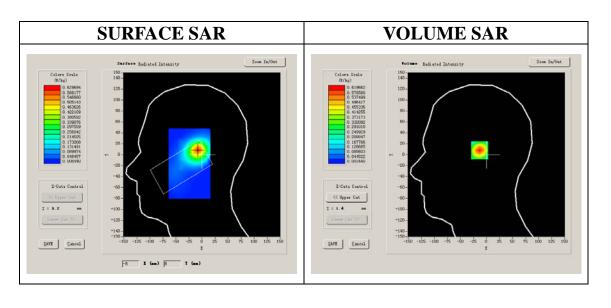
A. Experimental conditions.

Phantom File	zinf3.txt
Phantom	Left head
Device Position	Tilt
Band	GSM1900
Channels	Low
Signal	GSM

B. SAR Measurement Results

Lower Band SAR (Channel 512):

Frequency (MHz)	1850.199951
Relative permittivity (real part)	39.993999
Relative permittivity	12.991650
Conductivity (S/m)	1.335397
Power Drift (%)	0.110000
Ambient Temperature:	22.0°C
Liquid Temperature:	21.7C
ConvF:	40.136,34.843,38.721
Crest factor:	1:8

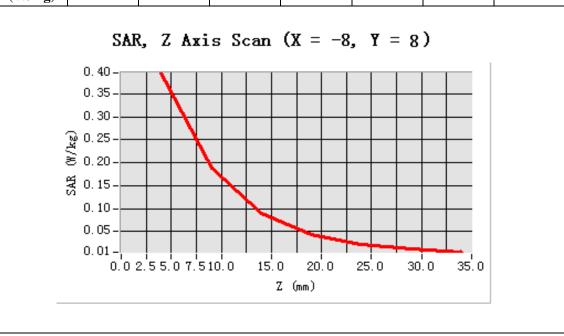


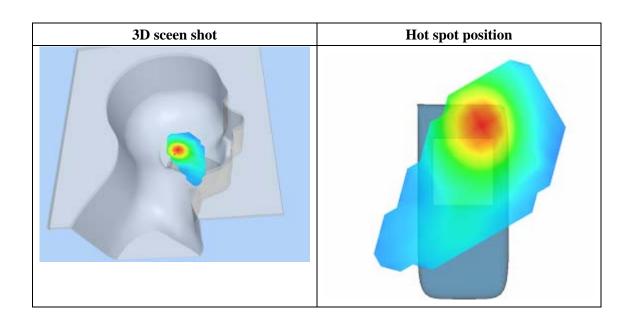


Maximum location: X=-8.00, Y=8.00

SAR 10g (W/Kg)	0.284807
SAR 1g (W/Kg)	0.382143

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.4197	0.2926	0.1403	0.0674	0.0310	0.0168
(W/Kg)							







Type: Phone measurement (Complete)

Area scan resolution: dx=8mm,dy=8mm

Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 11/5/2011

Measurement duration: 7 minutes 22 seconds

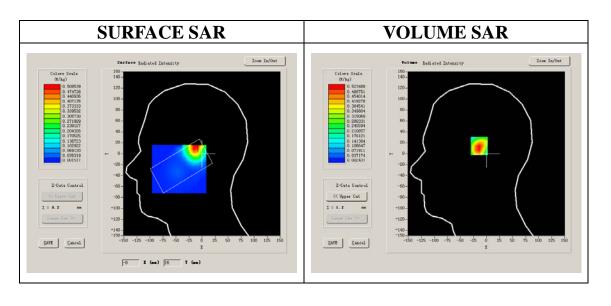
A. Experimental conditions.

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

B. SAR Measurement Results

Middle Band SAR (Channel 661):

Frequency (MHz)	1880.000000
Relative permittivity (real part)	38.509998
Relative permittivity	13.750000
Conductivity (S/m)	1.436111
Power Drift (%)	-2.750000
Ambient Temperature:	22.0°C
Liquid Temperature:	21.7C
ConvF:	40.136,34.843,38.721
Crest factor:	1:8

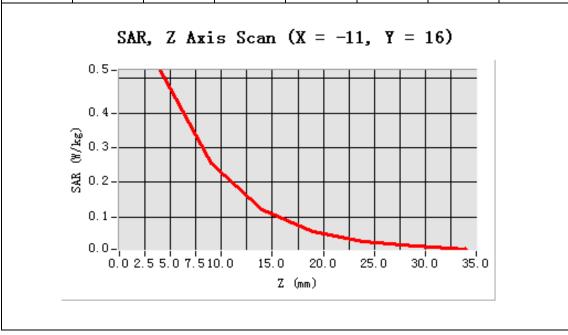


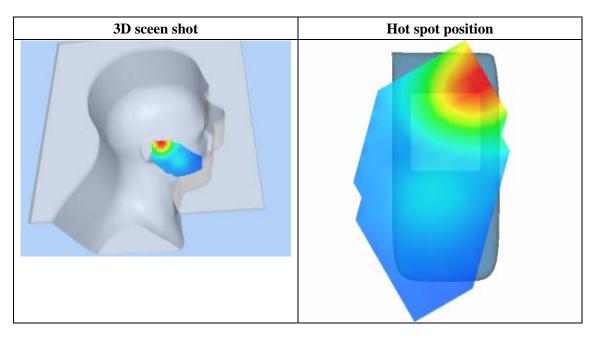


Maximum location: X=-11.00, Y=16.00

SAR 10g (W/Kg)	0.253649
SAR 1g (W/Kg)	0.410435

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.5235	0.2542	0.1225	0.0588	0.0281	0.0146
(W/Kg)							







Type: Phone measurement (Complete)

Area scan resolution: dx=8mm,dy=8mm

Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 11/5/2011

Measurement duration: 7 minutes 23 seconds

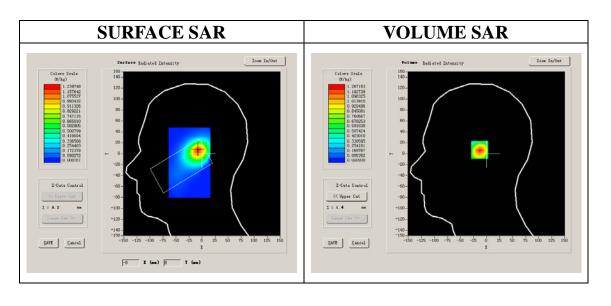
A. Experimental conditions.

Phantom File	zinf3.txt
Phantom	Left head
Device Position	Tilt
Band	GSM1900
Channels	High
Signal	GSM

B. SAR Measurement Results

Higher Band SAR (Channel 810):

or a write print (or write or a).	
Frequency (MHz)	1909.800049
Relative permittivity (real part)	39.929001
Relative permittivity	13.156500
Conductivity (S/m)	1.395905
Power Drift (%)	-2.729980
Ambient Temperature:	22.0°C
Liquid Temperature:	21.7C
ConvF:	40.136,34.843,38.721
Crest factor:	1:8

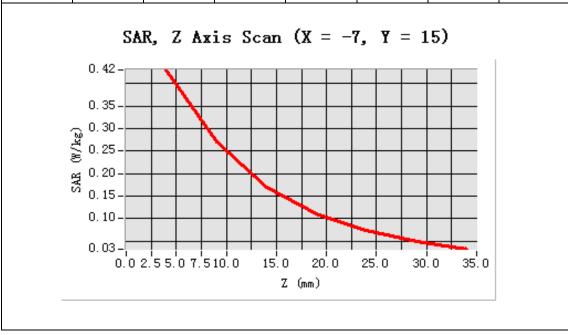


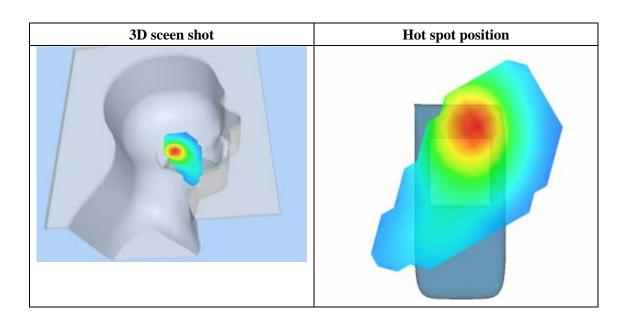


Maximum location: X=-7.00, Y=15.00

SAR 10g (W/Kg)	0.254999	
SAR 1g (W/Kg)	0.410963	

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.4201	0.2714	0.1692	0.1115	0.0729	0.0496
(W/Kg)							







System Performance Check Data

Type: Phone measurement (Complete)

Area scan resolution: dx=8mm,dy=8mm

Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 11/5/2011

Measurement duration: 13 minutes 27 seconds

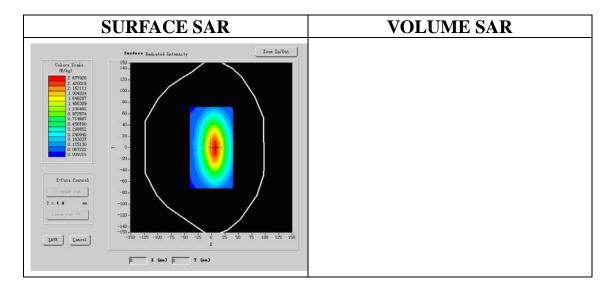
A. Experimental conditions.

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

B. SAR Measurement Results

Band SAR

Frequency (MHz)	835.000000
Relative permittivity (real part)	40.669998
Relative permittivity	15.070000
Conductivity (S/m)	0.888655
Power Drift (%)	-0.050000
Ambient Temperature:	23.7°C
Liquid Temperature:	23.1°C
ConvF:	28.479,25.214,27.196
Crest factor:	1:1



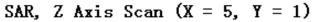
Maximum location: X=5.00, Y=1.00

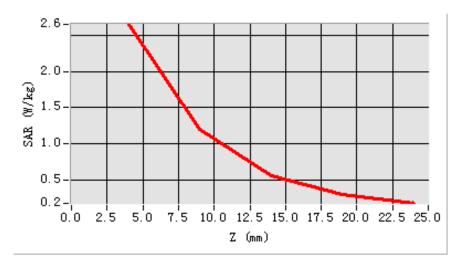


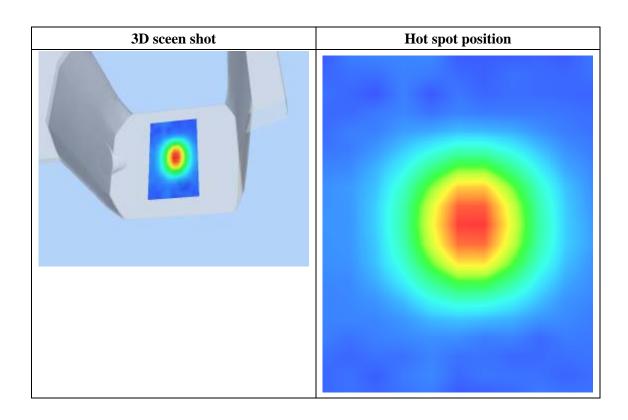
SAR 10g (W/Kg)	1.295674
SAR 1g (W/Kg)	2.383466

Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	2.6486	1.2069	0.5583	0.3002









System Performance Check Data

Type: Phone measurement (Complete)

Area scan resolution: dx=8mm,dy=8mm

Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 11/5/2011

Measurement duration: 13 minutes 27 seconds

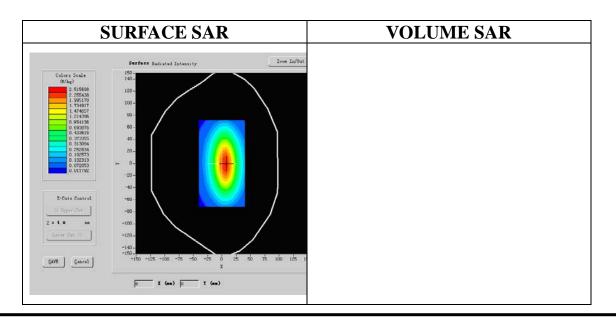
A. Experimental conditions.

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

B. SAR Measurement Results

Band SAR:

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:	23.2°C
Liquid Temperature:	22.9°C
ConvF:	40.136,34.843,38.721
Crest factor:	1:1





Maximum location: X=5.00, Y=1.00

SAR 10g (W/Kg)	5.094776	
SAR 1g (W/Kg)	9.716346	

Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	2.8536	1.3061	0.6041	0.3211

SAR, Z Axis Scan (X = 5, Y = 1)

