



Issued to

NEWPLAN ENTERPRISES LIMITED

For

GSM MOBILE PHONE

Model Name

CP18/S798/1090/HM400/DCP18

Trade Name

ARCCI/capitel/myPhone/TelematicNordicAB/

Deltaco/NEWPLAN

Brand Name

ARCCI/capitel/myPhone/TelematicNordicAB/

Deltaco/NEWPLAN

FCC ID

: XY2CP18

Standard

FCC Oet65 Supplement C Jun.2001

47CFR 2.1093

ANSI C95.1-1999

IEEE 1528-2003

MAX SAR

Head: 0.688W/kg

Body: 0.393 W/kg

Test date

2011-11-23

Issue date

2011-12-8

Shenzhen MORLAB Communication Technology Co., Ltd.

Tested by Zhu Zhan

Zhu Zhan

Date

2011-12.8

Certification

Date

Davino hu

Samuel. Peng

Date

2011.128



IEEE 1725

OTA











BOTE

Reg. No.

TF 741109

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	Change History						
Issue	Issue Date Reason for change						
1.0	1.0 Dec.1, 2011 First edition						
2.1	2.1 Dec.8, 2011 Add System Performance Check Data for body Parameters						
		of 835MHz and 1900MHz					



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

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	1year
3	Voltmeter	Keithley (2000, SN:1000572)	2011-9-24	1year
4	Synthetizer	Rohde&Schwarz (SML_03, SN:101868)	2011-9-24	1 year
5	Amplifier	fier Nucl udes (ALB216, SN:10800) 2011-9-24		1year
6	Power Meter	Rohde&Schwarz (NRVD, SN:101066)	2011-9-24	1year
7	Probe	Satimo (SN:SN_3708_EP80)	2011-9-24	1year
8	Phantom	Satimo (SN:SN_36_08_SAM62)	2011-9-24	1year
9	Liquid	Satimo (Last Calibration: 2011-11-23)	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	1 year



2. Technical Information

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

2.1. Identification of Applicant

Company Name: NEWPLAN ENTERPRISES LIMITED

Address: 10/F Ideal Center 320-322 kwun Tong Road, Kwun Tong, Kowloon,

Hong Kong

2.2. Identification of Manufacturer

Company Name: NEWPLAN ENTERPRISES LIMITED

Address: 10/F Ideal Center 320-322 kwun Tong Road, Kwun Tong, Kowloon,

Hong Kong

2.3. Equipment Under Test (EUT)

Model Name: CP18/S798/1090/HM400/DCP18

Trade Name: ARCCI/capitel/myPhone/Telematic Nordic AB/Deltaco/NEWPLAN
Brand Name: ARCCI/capitel/myPhone/Telematic Nordic AB/Deltaco/NEWPLAN

Hardware Version: CP18-MB-V4-111010

Software Version: CP18_V011

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: CP18/S798/1090/HM400/DCP18/

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#	CP18-MB-V4-111010	CP18_V011



2.4. Applied Reference Documents

Leading reference documents for testing:

No.	Identity	Document Title					
1	47 CFR§2.1O93	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					
		sposure 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 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.

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)



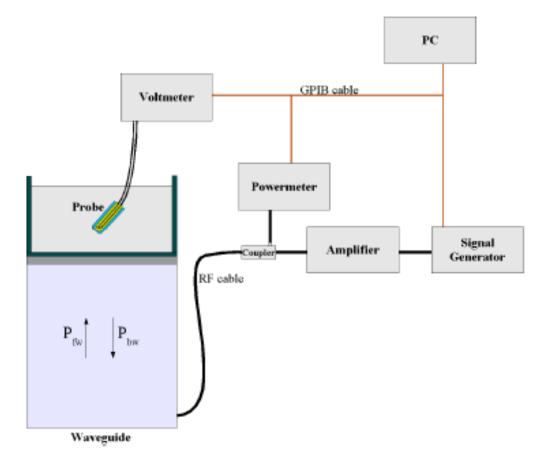
- Probe linearity: <0.25 dB- Axial Isotropy: <0.25 dB

- 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 622091 annexe 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

Simulating liquid used for testing at frequencies of 850, 1900MHz and 2450MHz. 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 and 1900 MHz.

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

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 (Nov. 23)	835 MHZ	41.675999	0.894409					
Target value	1900 MHZ	40	1.40					
Validation value (Nov. 23)	1900 MHZ	38.509998	1.436111					



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.

Table 2: Dielectric Performance of Body Tissue Simulating Liquid

Temperature: 23.0~23.8°C, humidity: 54~60%.							
/	Conductivity σ (S/m)						
Target value	835 MHz	55.2	0.97				
Validation value (Nov. 23)	835 MHz	55.709999	0.9809033				
Target value	1900 MHz	53.3	1.52				
Validation value (Nov. 23)	1900 MHz	52.548876	1.553978				



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	С	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	l			l		1	•		I
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	·s	•	•		•		•	•	
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	∞
from target value									
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	$\sqrt{3}$	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	M
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	С	d	e= f(d,k)	f	g	h= c*f/e	i=	k
								c*g/	
				D.	G:	G:	4 77	e	***
Uncertainty Component	Sec.	Tol	Prob.	Div.	Ci	Ci	1g Ui	10g	Vi
		(+- %	Dist.		(1g)	(10g)	(+-%)	Ui	
)						(+-	
M C4								%)	
Measurement System	F 0.1	176	NT.	1 ,	1	Ι,	4.76	4.76	I
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	8
Boundary effect	E.2.3	1.0	R	$\sqrt{3}$	1	1	0.58	0.58	8
Linearity	E.2.4	5.0	R	$\sqrt{3}$	1	1	2.89	2.89	8
System detection limits	E.2.5	1.0	R	$\sqrt{3}$	1	1	0.58	0.58	8
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	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	∞
measurement	0,0.0.2	1.01	10	\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	1	1	2.33	2.33	
Phantom and Tissue Paramete	rs						1		l
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	M
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	M
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 of 835MHz and 1900MHz. 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 %.

System Performance Check Data for HEAD Parameters

Frequency	835MHz	1900MHz
Target value (1g)	9.5 W/Kg	39.7 W/Kg
250 mW input power	2.478 W/Kg	9.455 W/Kg
Test value (1g)	9.912 W/Kg	37.820 W/Kg

System Performance Check Data for BODY Parameters

Frequency	835MHz	1900MHz
Target value (1g)	9.5 W/Kg	39.7 W/Kg
250 mW input power	2.542 W/Kg	9.556 W/Kg
Test value (1g)	10.168W/Kg	38.224 W/Kg

Note: System checks the specific test data please see page 51~58.

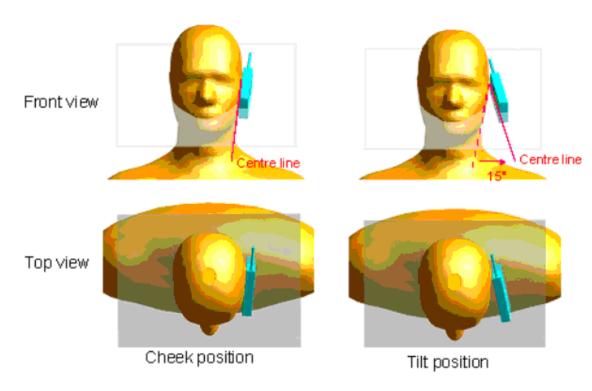


8. Operational Conditions During Test

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.

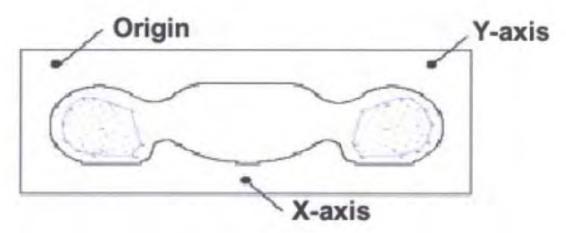
8.2. Body-worn Configurations

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 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.

8.4. 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. Measurement Of Conducted Output Power

GSM Conducted peak output power

Band	Channel	Frequency (MHz)	Output Power (dBm)	Power Drift (%)
GSM	128	824.2	31.21	/
850	190	836.6	31.76	/
830	251	848.8	32.42	-1.77
DCC	512	1850.2	30.02	-1.83
PCS 1900	661	1880.0	29.57	/
1900	810	1909.8	28.99	/



10. Test Results List

Summary of Measurement Results (GSM 850MHz Band)

Temperature: 21.0~23.8°C, humidity: 54~60%.						
			S	AR(W/Kg) 1	g	
Phantom	Device Test	Antenna	De	vice Test chan	nel	
Configurations	Positions	Positions	Channel	Channel	Channel	
			128	190	251	
Right Side	Cheek/Touch	Internal	/	/	0.293	
Of Head	Ear/Tilt	Internal	/	/	0.127	
Left Side	Cheek/Touch	Internal	/	/	0.252	
Of Head	Ear/Tilt	Internal	/	/	0.149	
Body	Back upward	Internal	/	/	0.371	
(1.5cm separation)	Face Upward	Internal	/	/	0.158	

Summary of Measurement Results (GSM 1900MHz Band)

Temperature: 21.0~23.8°C, humidity: 54~60%.					
			S	AR(W/Kg) 1	lg
Phantom	Device Test	Antenna	De	vice Test chan	nel
Configurations	Positions	Positions	Channel	Channel	Channel
			512	661	810
Right Side	Cheek/Touch	Internal	0.688	/	/
Of Head	Ear/Tilt	Internal	0.646	/	/
Left Side	Cheek/Touch	Internal	0.636	/	/
Of Head	Ear/Tilt	Internal	0.585	/	/
Body	Back upward	Internal	0.393	/	/
(1.5cm separation)	Face Upward	Internal	0.155	/	/

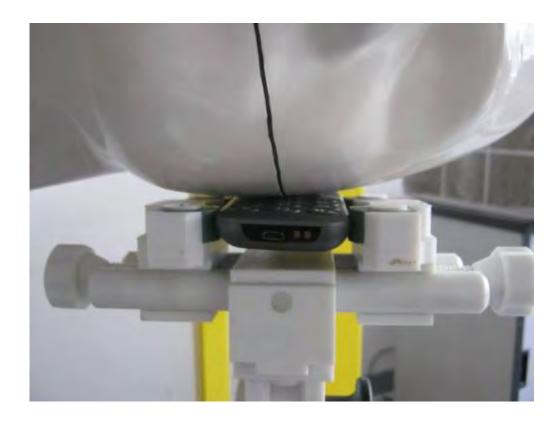
Note:

- 1. For GSM 850, the highest power channel is 251, the SAR of each configurations are less than 0.8 W/kg, Refer to KDB 447498, when the SAR procedures require multiple channels to be tested and the 1-g SAR for the highest output channel is less than 0.8 W/kg and peak SAR is less than 1.6W/kg, where the transmission band corresponding to all channels is ≤ 100 MHz, testing for the other channels is not required.
- 2. For GSM1900, the the highest power channel is 512, the SAR of each configurations are less than 0.8 W/kg, Refer to KDB 447498, when the SAR procedures require multiple channels to be tested and the 1-g SAR for the highest output channel is less than 0.8 W/kg and peak SAR is less than 1.6W/kg, where the transmission band corresponding to all channels is ≤ 100 MHz, testing for the other channels is not required.



Annex A EUT Setup Photos

1 EUT Left Head Touch Cheek Position

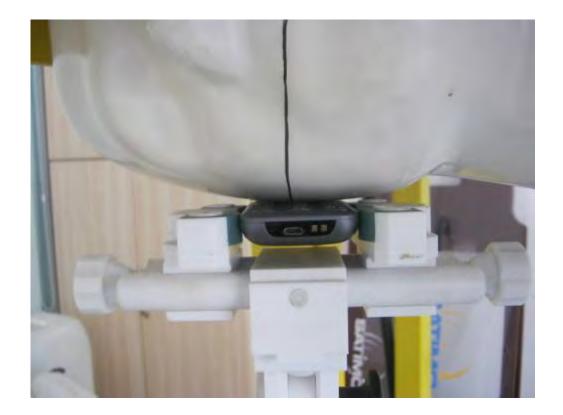


2 EUT Left Head Tilt15 Position

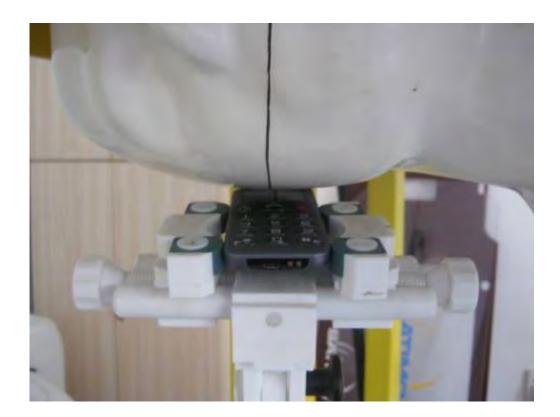




3 EUT Right Head Touch Cheek Position



4 EUT Right Head Tilt15 Position





5 Side position with earphone



Liquid Level Photo





Annex B Graph Test Results

BAND	<u>PARAMETERS</u>
	Measurement 1: Right Head with Cheek device position on High
	Channel in GSM mode
	Measurement 2: Right Head with Tilt device position on High
	Channel in GSM mode
	Measurement 3: Left Head with Cheek device position on High
CCMOEO	Channel in GSM mode
<u>GSM850</u>	Measurement 4: Left Head with Tilt device position on High
	Channel in GSM mode
	Measurement 5: Validation Plane with Body device position on
	High Channel in GSM mode
	Measurement 6: Validation Plane with Body device position on
	High Channel in GSM mode
	Measurement 7: Right Head with Cheek device position on Low
	Channel in GSM mode
	Measurement 8: Right Head with Tilt device position on Low
	Channel in GSM mode
	Measurement 9: Left Head with Cheek device position on Low
GSM1900	Channel in GSM mode
<u>GSW11900</u>	Measurement 10: Left Head with Tilt device position on Low
	Channel in GSM mode
	Measurement 11: Validation Plane with Body device position on
	Low Channel in GSM mode
	Measurement 12: Validation Plane with Body device position on
	Low Channel in GSM 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: 23/11/2011

Measurement duration: 7 minutes 38 seconds

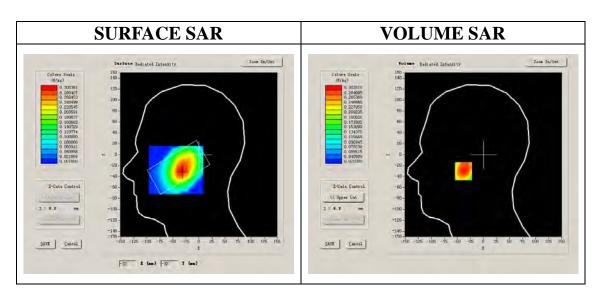
A. Experimental conditions.

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)	40.669998
Relative permittivity	19.120001
Conductivity (S/m)	0.888655
Power drift (%)	-0.870000
Ambient Temperature:	22.3°C
Liquid Temperature:	22.5°C
ConvF:	28.479, 25.214, 27.196
Crest factor:	1:8



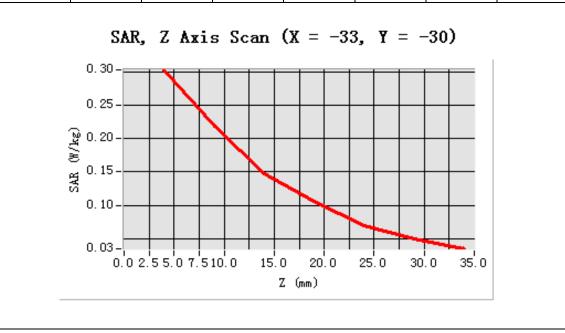


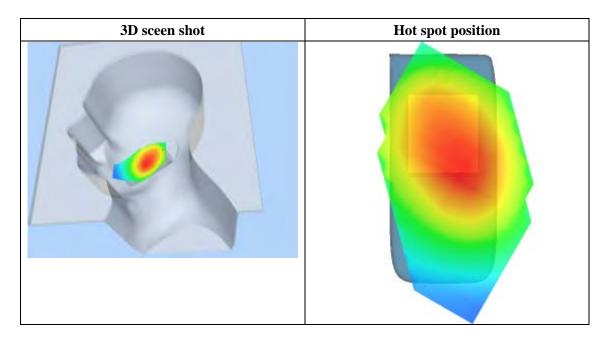
Maximum location: X=-33.00, Y=-30.00

SAR 10g (W/Kg)	0.193198
SAR 1g (W/Kg)	0.292509

Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.3028	0.2191	0.1473	0.1053	0.0701	0.0499
(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: 23/11/2011

Measurement duration: 7 minutes 33 seconds

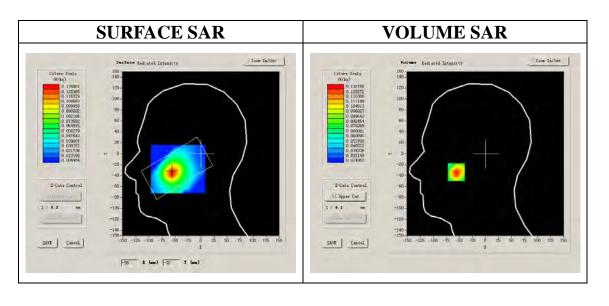
A. Experimental conditions.

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)	40.669998
Relative permittivity	19.120001
Conductivity (S/m)	0.888655
Power drift (%)	-0.920000
Ambient Temperature:	22.3°C
Liquid Temperature:	22.5°C
ConvF:	28.479, 25.214, 27.196
Crest factor:	1:8



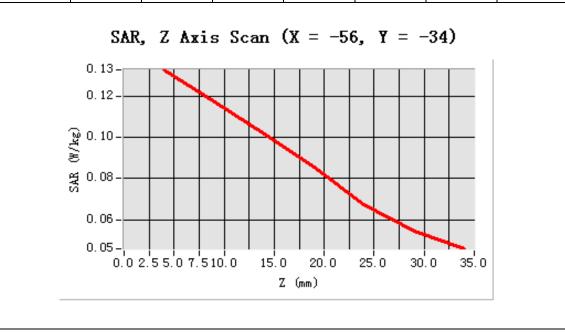


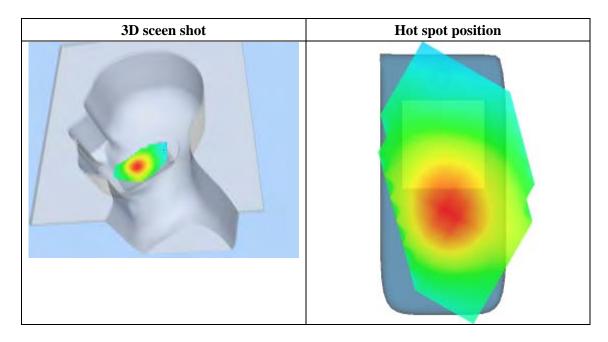
Maximum location: X=-56.00, Y=-34.00

SAR 10g (W/Kg)	0.098993
SAR 1g (W/Kg)	0.126820

Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.1328	0.1171	0.1015	0.0853	0.0675	0.0547
(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: 23/11/2011

Measurement duration: 7 minutes 37 seconds

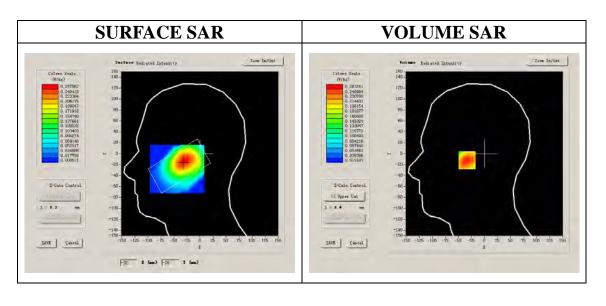
A. Experimental conditions.

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)	40.669998
Relative permittivity	19.120001
Conductivity (S/m)	0.888655
Power drift (%)	-0.110000
Ambient Temperature:	22.3°C
Liquid Temperature:	22.5°C
ConvF:	28.479, 25.214, 27.196
Crest factor:	1:8



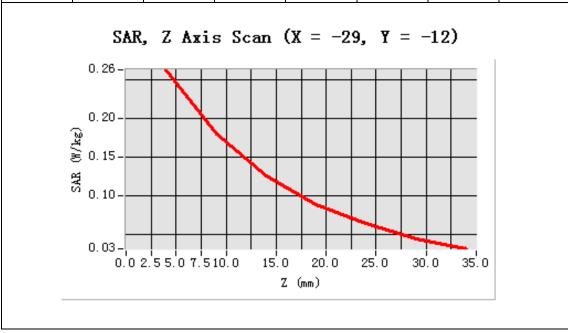


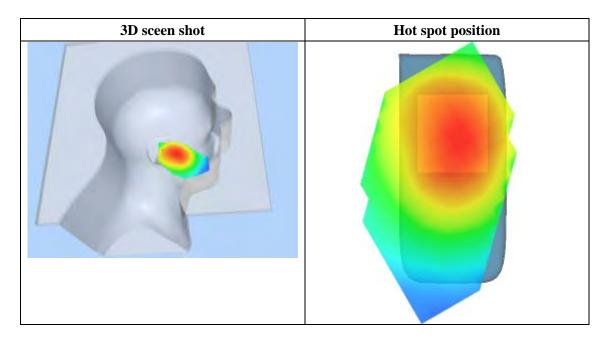
Maximum location: X=-29.00, Y=-12.00

SAR 10g (W/Kg)	0.167111
SAR 1g (W/Kg)	0.252143

Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.2633	0.1799	0.1260	0.0885	0.0634	0.0440
(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: 23/11/2011

Measurement duration: 7 minutes 31 seconds

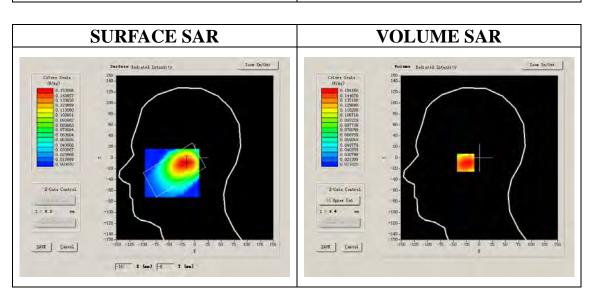
A. Experimental conditions.

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):

er Bana Britt (Chamier 231):	
Frequency (MHz)	848.799988
Relative permittivity (real part)	40.669998
Relative permittivity	19.120001
Conductivity (S/m)	0.888655
Power drift (%)	0.110000
Ambient Temperature:	22.3°C
Liquid Temperature:	22.5°C
ConvF:	28.479, 25.214, 27.196
Crest factor:	1:8



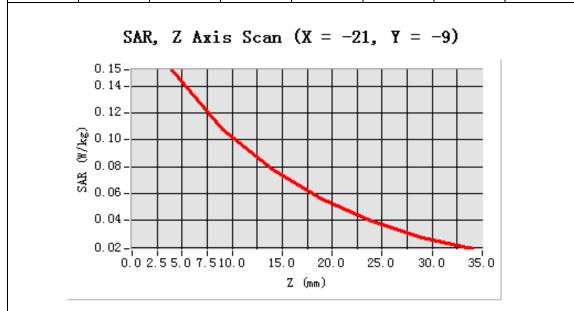


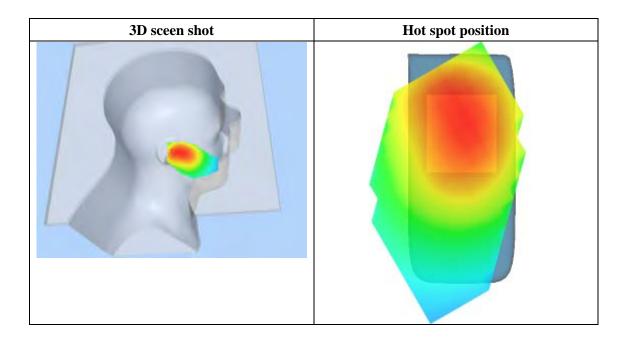
Maximum location: X=-21.00, Y=-9.00

SAR 10g (W/Kg)	0.101844		
SAR 1g (W/Kg)	0.149169		

Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.1520	0.1074	0.0781	0.0560	0.0393	0.0270
(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: 23/11/2011

Measurement duration: 9 minutes 10 seconds

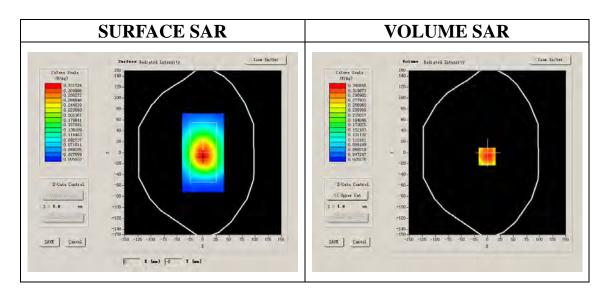
A. Experimental conditions.

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

B. SAR Measurement Results

Higher Band SAR (Channel 251):

t 2 with 21 lit (Chimino 20 1).				
Frequency (MHz)	848.799988			
Relative permittivity (real part)	55.709999			
Relative permittivity	21.709999			
Conductivity (S/m)	1.009033			
Power drift (%)	-1.260000			
Ambient Temperature:	22.3°C			
Liquid Temperature:	22.5°C			
ConvF:	28.559,25.681,27.588			
Crest factor:	1:8			



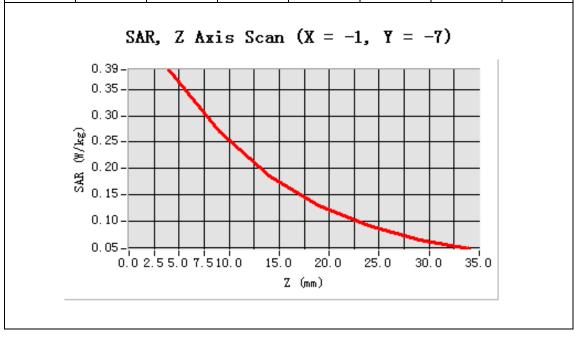


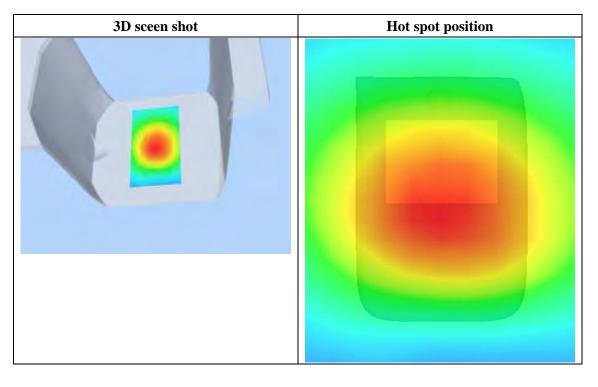
Maximum location: X=-1.00, Y=-7.00

SAR 10g (W/Kg)	0.249927		
SAR 1g (W/Kg)	0.370563		

Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.3870	0.2691	0.1868	0.1305	0.0908	0.0655
(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: 23/11/2011

Measurement duration: 9 minutes 10 seconds

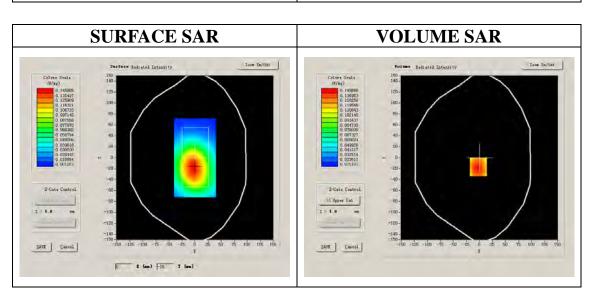
A. Experimental conditions.

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

B. SAR Measurement Results

Higher Band SAR (Channel 251):

er Bund Stiff (Chamier 251).				
Frequency (MHz)	848.799988			
Relative permittivity (real part)	55.709999			
Relative permittivity	21.709999			
Conductivity (S/m)	1.009033			
Power drift (%)	-1.770000			
Ambient Temperature:	22.3°C			
Liquid Temperature:	22.5°C			
ConvF:	28.559,25.681,27.588			
Crest factor:	1:8			

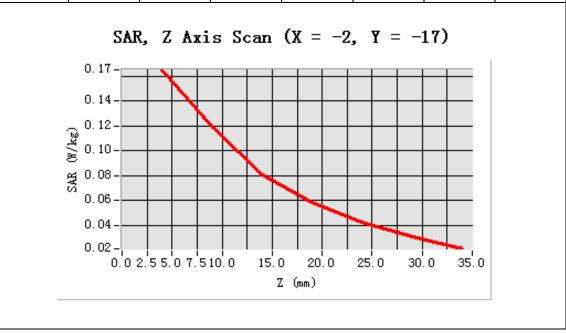


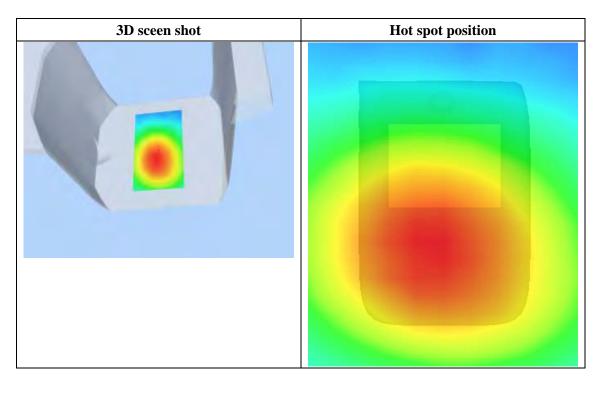


Maximum location: X=-2.00, Y=-17.00

SAR 10g (W/Kg)	0.108498		
SAR 1g (W/Kg)	0.158444		

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.1654	0.1191	0.0810	0.0581	0.0422	0.0309
(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: 23/11/2011

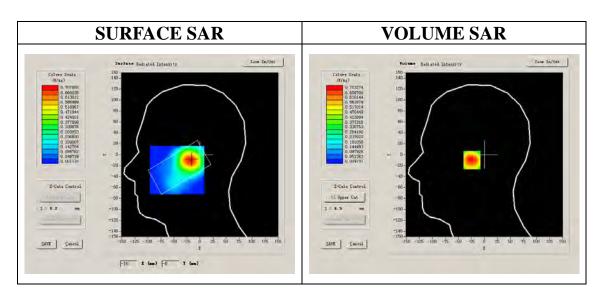
Measurement duration: 7 minutes 28 seconds

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

Frequency (MHz)	1850.199951		
Relative permittivity (real part)	38.509998		
Relative permittivity	13.750000		
Conductivity (S/m)	1.436111		
Power drift (%)	0.610000		
Ambient Temperature:	22.6°C		
Liquid Temperature:	22.7°C		
ConvF:	40.136,34.843,38.721		
Crest factor:	1:8		

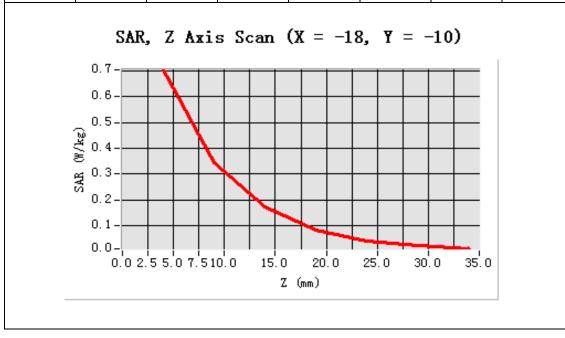


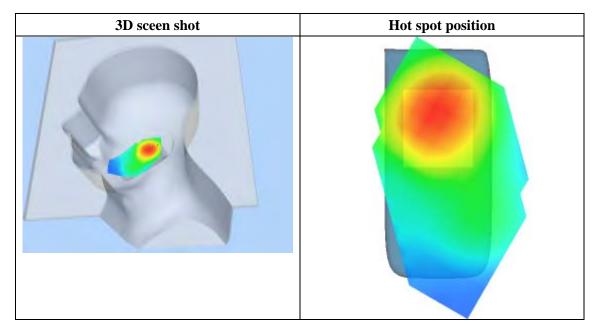


Maximum location: X=-18.00, Y=-10.00

SAR 10g (W/Kg)	0.359912		
SAR 1g (W/Kg)	0.687982		

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.7033	0.3459	0.1718	0.0812	0.0386	0.0212
(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: 23/11/2011

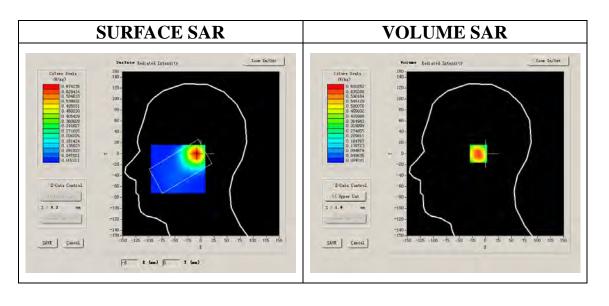
Measurement duration: 7 minutes 26 seconds

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

Frequency (MHz)	1850.199951		
Relative permittivity (real part)	38.509998		
Relative permittivity	13.750000		
Conductivity (S/m)	1.436111		
Power drift (%)	0.130000		
Ambient Temperature:	22.6°C		
Liquid Temperature:	22.7°C		
ConvF:	40.136,34.843,38.721		
Crest factor:	1:8		

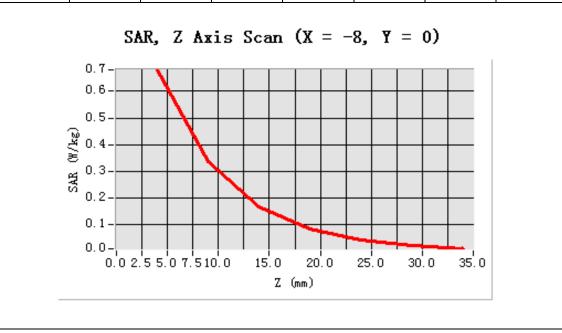


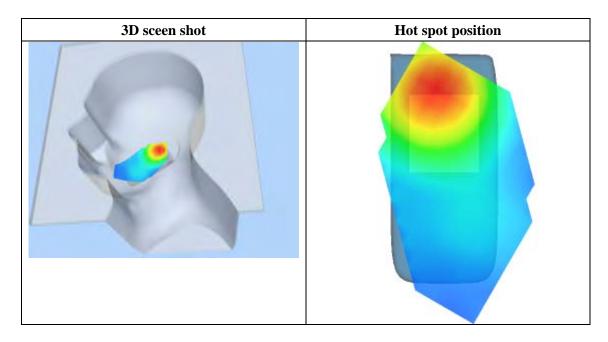


Maximum location: X=-8.00, Y=0.00

SAR 10g (W/Kg)	0.336341
SAR 1g (W/Kg)	0.646474

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.6803	0.3347	0.1685	0.0835	0.0431	0.0205
(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: 23/11/2011

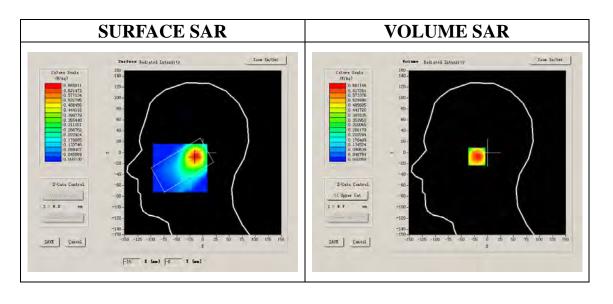
Measurement duration: 7 minutes 27 seconds

A. Experimental conditions.

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

B. SAR Measurement Results

Frequency (MHz)	1850.199951
Relative permittivity (real part)	38.509998
Relative permittivity	13.750000
Conductivity (S/m)	1.436111
Power drift (%)	-1.830000
Ambient Temperature:	22.6°C
Liquid Temperature:	22.7°C
ConvF:	40.136,34.843,38.721
Crest factor:	1:8

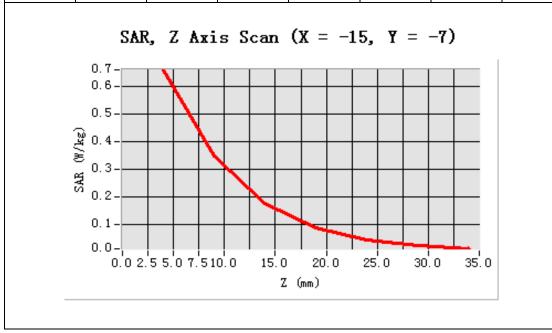


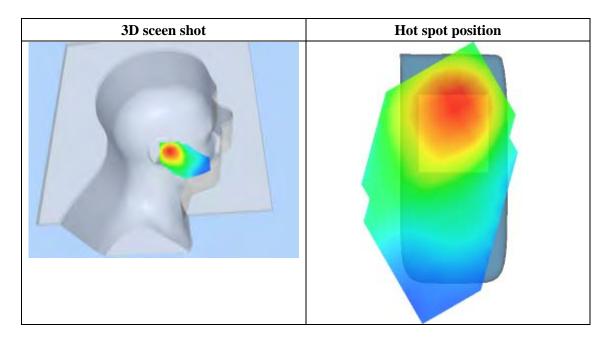


Maximum location: X=-15.00, Y=-7.00

SAR 10g (W/Kg)	0.337579		
SAR 1g (W/Kg)	0.635509		

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.6611	0.3483	0.1751	0.0882	0.0453	0.0230
(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: 23/11/2011

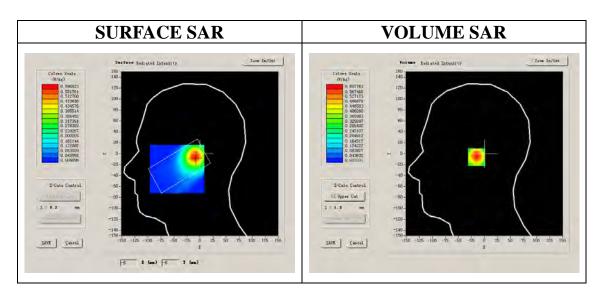
Measurement duration: 7 minutes 27 seconds

A. Experimental conditions.

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

B. SAR Measurement Results

Build Billt (Chamier 512):			
Frequency (MHz)	1850.199951		
Relative permittivity (real part)	38.509998		
Relative permittivity	13.750000		
Conductivity (S/m)	1.436111		
Power drift (%)	-0.400000		
Ambient Temperature:	22.6°C		
Liquid Temperature:	22.7°C		
ConvF:	40.136,34.843,38.721		
Crest factor:	1:8		

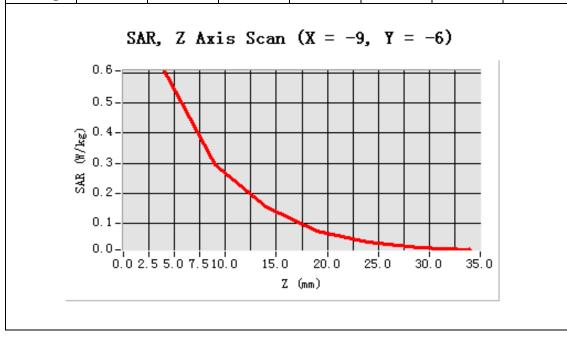


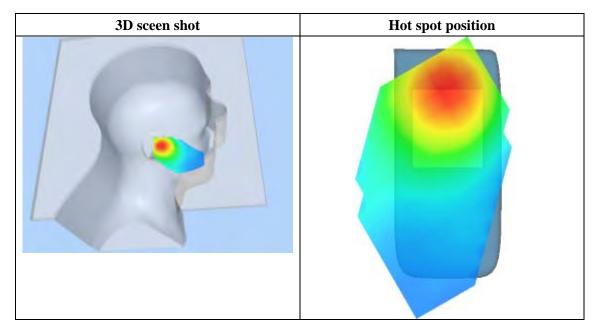


Maximum location: X=-9.00, Y=-6.00

SAR 10g (W/Kg)	0.301820		
SAR 1g (W/Kg)	0.584669		

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.6078	0.2932	0.1539	0.0752	0.0377	0.0205
(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: 23/11/2011

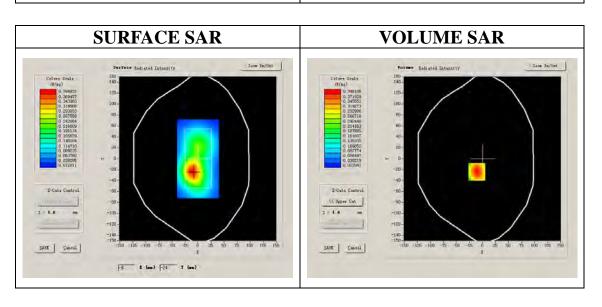
Measurement duration: 9 minutes 7 seconds

A. Experimental conditions.

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

B. SAR Measurement Results

Frequency (MHz)	1850.199951		
Relative permittivity (real part)	52.540001		
Relative permittivity	14.070000		
Conductivity (S/m)	1.469533		
Power drift (%)	-0.710000		
Ambient Temperature:	22.6°C		
Liquid Temperature:	22.7°C		
ConvF:	40.625,34.773,38.535		
Crest factor:	1:8		

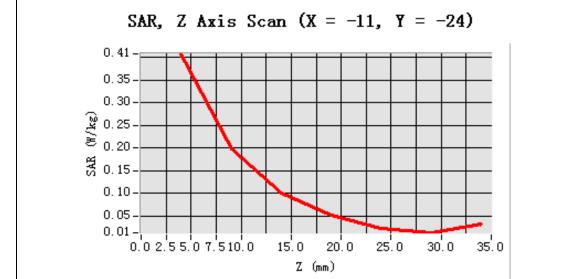


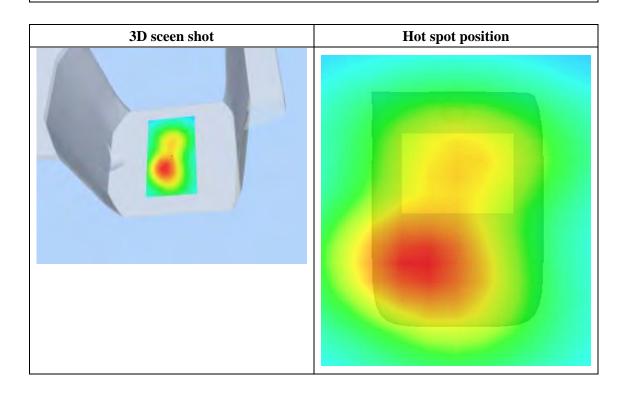


Maximum location: X=-11.00, Y=-24.00

SAR 10g (W/Kg)	0.208716		
SAR 1g (W/Kg)	0.392826		

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.4074	0.1981	0.1003	0.0502	0.0225	0.0122
(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: 23/11/2011

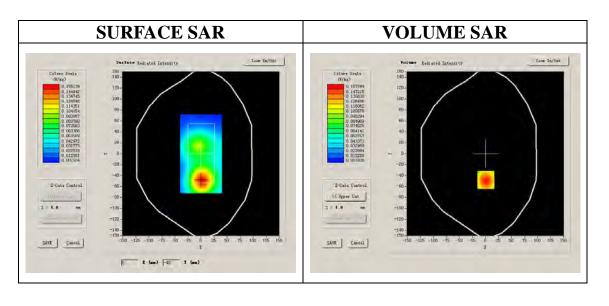
Measurement duration: 9 minutes 8 seconds

A. Experimental conditions.

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

B. SAR Measurement Results

Frequency (MHz)	1850.199951		
Relative permittivity (real part)	52.540001		
Relative permittivity	14.070000		
Conductivity (S/m)	1.469533		
Power drift (%)	1.560000		
Ambient Temperature:	22.6°C		
Liquid Temperature:	22.7°C		
ConvF:	40.625,34.773,38.535		
Crest factor:	1:8		

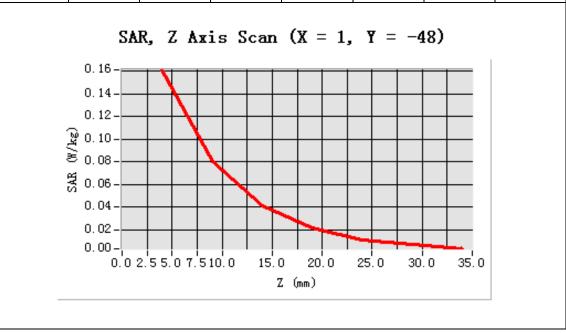


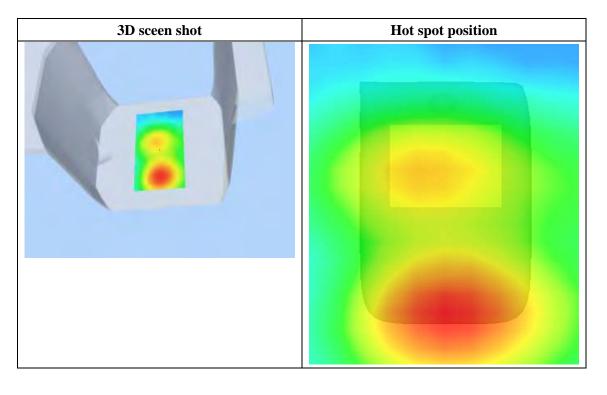


Maximum location: X=1.00, Y=-48.00

SAR 10g (W/Kg)	0.084342	
SAR 1g (W/Kg)	0.155475	

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.1613	0.0798	0.0412	0.0215	0.0112	0.0067
(W/Kg)							







System Performance Check Data(835MHz)

Type: Phone measurement (Complete)

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

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

Date of measurement: 23/11/2011

Measurement duration: 13 minutes 27 seconds

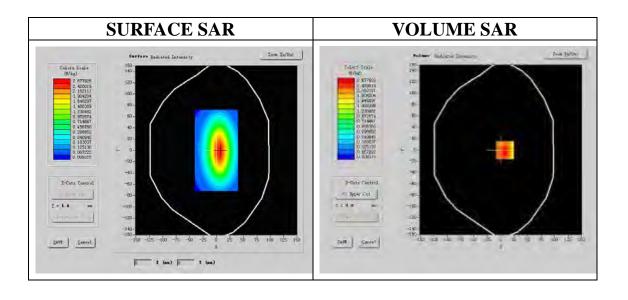
A. Experimental conditions.

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)	40.490002		
Relative permittivity	15.070000		
Conductivity (S/m)	0.983918		
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		





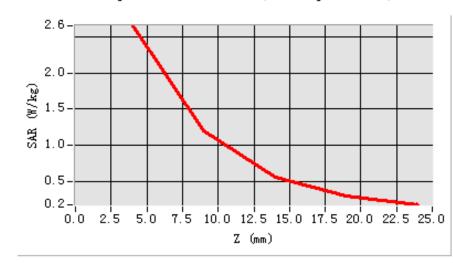
Maximum location: X=5.00, Y=1.00

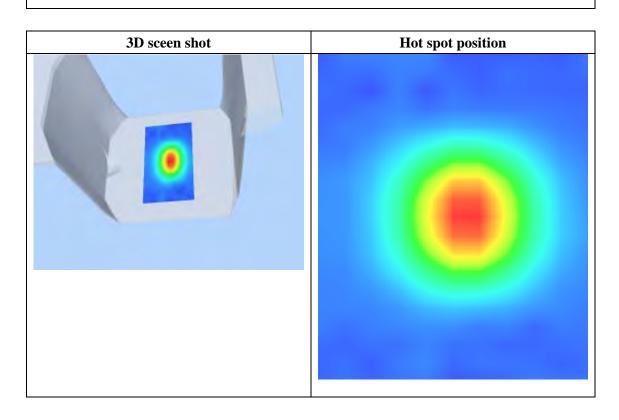
SAR 10g (W/Kg)	1.685732	
SAR 1g (W/Kg)	2.478462	

Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	2.4754	1.2251	0.5857	0.3114

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







System Performance Check Data(1900MHz)

Type: Phone measurement (Complete)

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

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

Date of measurement: 23/11/2011

Measurement duration: 13 minutes 27 seconds

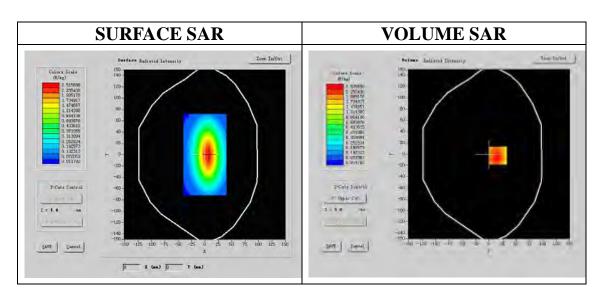
A. Experimental conditions.

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)	38.930000		
Relative permittivity	15.070000		
Conductivity (S/m)	1.321229		
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		

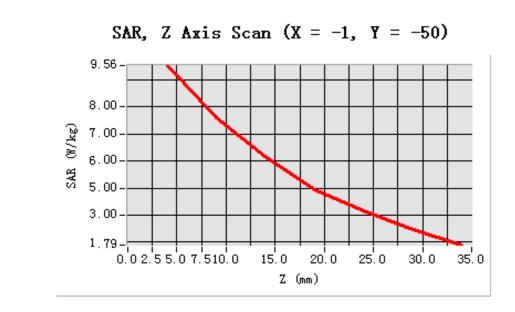


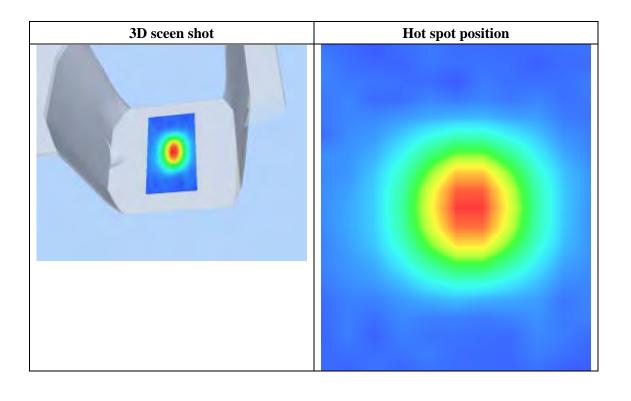


Maximum location: X=-1.00, Y=-50.00

SAR 10g (W/Kg)	4.884149	
SAR 1g (W/Kg)	9.454628	

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	9.4148	5.3955	2.7646	0.3955







System Performance Check Data(835MHz)

Type: Phone measurement (Complete)

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

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

Date of measurement: 23/11/2011

Measurement duration: 13 minutes 27 seconds

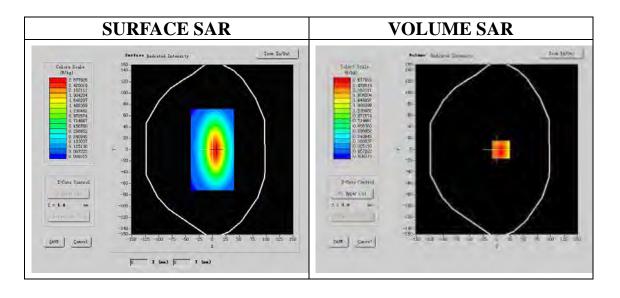
A. Experimental conditions.

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)	55.709999
Relative permittivity	21.709999
Conductivity (S/m)	1.009033
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

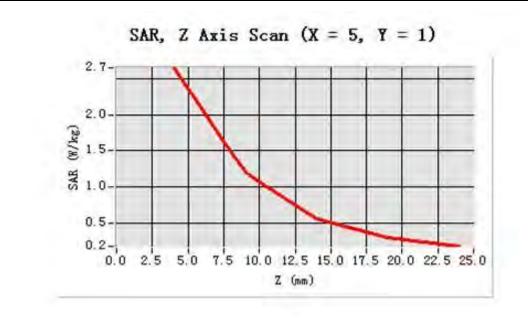


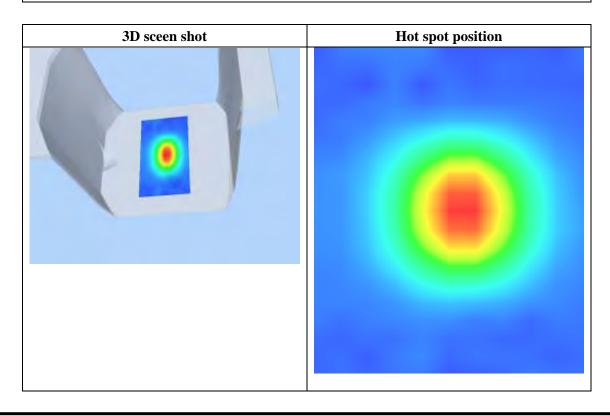


Maximum location: X=5.00, Y=1.00

SAR 10g (W/Kg)	1.715732
SAR 1g (W/Kg)	2.542212

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	2.6786	1.2583	0.5976	0.3243







System Performance Check Data(1900MHz)

Type: Phone measurement (Complete)

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

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

Date of measurement: 23/11/2011

Measurement duration: 13 minutes 26 seconds

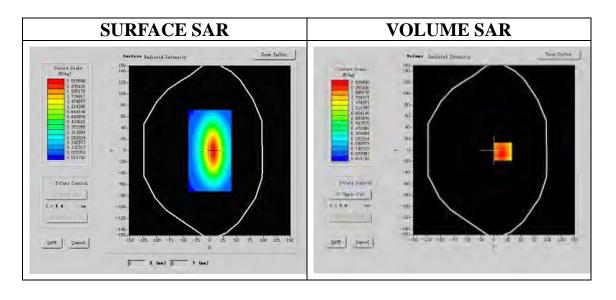
A. Experimental conditions.

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

B. SAR Measurement Results

Band SAR

Frequency (MHz)	1900.000000
Relative permittivity (real part)	52.540001
Relative permittivity	14.070000
Conductivity (S/m)	1.469533
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



35:0

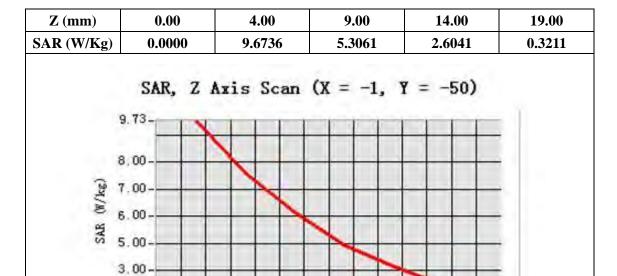
30.0



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

SAR 10g (W/Kg)	4. 910003
SAR 1g (W/Kg)	9. 556121

Z Axis Scan



15.0

20.0

Z (mm)

25.0

0.02.55.07.510.0

