

FCC SAR

TEST REPORT

of

CDMA Model Name: HC-C300 Trade Name: Haier Report No.: SZ09030054S01 FCC ID: SG70903HC-C300

prepared for

Qingdao Haier Telecom Co., Ltd. No.1, Haier Road, Hi-tech Zone, Qingdao, 266101, P.R. China



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General Information

1.1. Notes

The test results of this test report relate exclusively to the information specified in section 3.3. Shenzhen Electronic Product Quality Testing Center Morlab Laboratory does not assume responsibility for any conclusions and generalizations drawn from the test results with regard to other specimens or samples of the type of the equipment represented by the identification. The test report may only be reproduced or published in full. Reproduction or publications of extracts from the test report requires the prior written approval of Shenzhen Electronic Product Quality Testing Center Morlab Laboratory. The test report shall be invalid without all the signatures of testing the Project Manager, the Deputy Project Manager and the Test Lab Manager. Any objections must be raised to Morlab within 30 days since the date when the report is received. It will not be taken into consideration beyond this limit.

1.2. Organization item

Report No.:	SZ09030054S01
Date of Issue:	Mar. 27, 2009
Date of Tests:	Mar. 26, 2009 – Mar. 26, 2009
Responsible for Accreditation:	Zeng dexin
Project Manager:	Li Lei
Deputy Project Manager:	Liao Jianming

1.3. Conclusion

Shenzhen Electronic Product Quality Testing Center Morlab Laboratory has verified that all tests as listed in the section 4.6 of this report haven been performed successfully with the tested equipment.



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2. Testing Laboratory

2.1. Identification of the Responsible Testing Laboratory

Company Name:	Shenzhen Electronic Product Quality Testing Center
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
Responsible Test Lab Manager: Telephone:	District, Shenzhen, 518055 P. R. China Mr. Shu Luan +86 755 86130268

2.2. Identification of the Responsible Testing Location

Name:	Shenzhen Electronic Product Quality Testing Center Morlab					
	Laboratory					
Address:	3/F, Electronic Testing Building, Shahe Road, Nanshan					
	District, Shenzhen, 518055 P. R. China					

2.3. Accreditation Certificate

Accredited Testing Laboratory: No. CNAS L1659 (see Annex A)

2.4. List of Test Equipments

No.	Instrument	Туре			
1	PC	Dell (Pentium IV 2.4GHz, SN:X10-23533)			
2	Network Emulator	Rohde&Schwarz (CMU200, SN:105894)			
3	Voltmeter	Keithley (2000, SN:1000572)			
4	Synthetizer	Rohde&Schwarz (SML_03, SN:101868)			
5	Amplifier	Nucl udes (ALB216, SN:10800)			
6	Power Meter	Rohde&Schwarz (NRVD, SN:101066)			
7	Probe	Antennessa (SN:SN_3708_EP80)			
8	Phantom	Antennessa (SN:SN_36_08_SAM62)			
9	Liquid	Antennessa (Last Calibration:21 08 04)			



3. Technical Information

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

3.1. Identification of Applicant

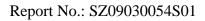
Company Name:	Qingdao Haier Telecom Co., Ltd.
Address:	No.1, Haier Road, Hi-tech Zone, Qingdao, 266101, P.R. China
Contact Person:	Xu jun
Telephone:	+86(532)88936583
Facsimile:	+86(532)88936583
E-mail:	xu_jun@haier.com

3.2. Identification of Manufacturer

Company Name:	Qingdao Haier Telecom Co., Ltd.
Address:	No.1, Haier Road, Hi-tech Zone, Qingdao, 266101, P.R. China
Contact Person:	Xu jun
Telephone:	+86(532)88936583
Facsimile:	+86(532)88936583
E-mail:	xu_jun@haier.com

3.3. Equipment Under Test (EUT)

Brand Name:	Haier	
Type Name:	Haier	
Marking Name:	HC-C300	
Hardware Version:	SP	
Software Version:	HAC300MT01	
Frequency Bands:	Tx:825.25 MHz—847.75MHz	Rx: 870.25 MHz-892.75MHz
Modulation Mode:	CDMA	
Antenna type:	Build inside	
Accessories:	Charger; Battery	
Battery Model:	H11124	
Battery specification:	800mAh 3.7V	





3.3.1. Photographs of the EUT

Please see for photographs of the EUT.

3.3.2. Identification of all used EUTs

The EUT Identity consists of numerical and letter characters (see the table below), the first five numerical characters indicates the Type of the EUT defined by Morlab, the next letter character indicates the test sample, and the following two numerical characters indicates the software version of the test sample.

EUT Identity	ESN	Hardware Version	Software Version
1#	00000000	SP	HAC300MT01

4. Test Results

4.1. 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.



4.2. Test Environment/Conditions

Normal Temperature (NT):	20 25 °C		
Relative Humidity:	30 75 %		
Air Pressure:	980 1020 hPa		
Details of Power Supply:	220V/50Hz AC		
Extreme Temperature:	Low Temperature (LT)	=	-10°C
	High Temperature (HT)	=	55°C
Extreme Voltage of the EUT:	Normal Voltage (NV)	=	3.80V
	Low Voltage (LV)	=	3.60V
	High Voltage (HV)	=	4.20V
Test frequency:	CDMA 800MHz		
Operation mode:	Call established		
Power Level:	Maximum output power		

During SAR test, EUT is in Traffic Mode (Channel Allocated) at Normal Voltage Condition. A communication link is set up with a System Simulator (SS) by air link, and a call is established.

The Absolute Radio Frequency Channel Number (ARFCN) is allocated to 1013, 384 and 777 respectively in the case of CDMA 800MHz, 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.



4.3. Operational Conditions During Test

4.3.1. Informations On The Testing

I. INFORMATIONS ON THE TESTING

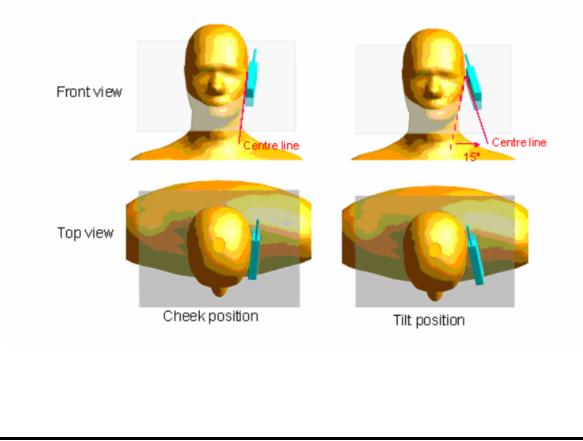
I.1. Normative reference

IEEE 1528: Recommended Practice for determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques. Institute of Electrical and Electronics Engineers, INC., 2003.

I.3. Positions and test conditions of the mobile phone under test

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



4.3.2. 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.



COMOSAR bench

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

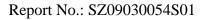
II.1. Phantom

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 2 mm +/- 0.2 mm. It enables the dosimetric evaluation of left and right hand 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.

II.2. Probe

For the measurements the Specific Dosimetric E-Field Probe SSE5 with following specifications is used.

- Dynamic range: 0.01-100 W/kg
- Tip Diameter : 5 mm





- Distance between probe tip and sensor center : 2.5 mm
- Distance between sensor center and the inner phantom surface: 4 mm (repeatability better than +/- 1mm).
- Probe linearity : <0.25 dB
- Axial Isotropy : <0.25 dB
- Spherical Isotropy : <0.50 dB
- Calibration range : 835 to 2500 MHz for head & body simulating liquid
- Angle between probe axis (evaluation axis) and suface normal line : less than 30°

II.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 16 mm * 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.

II.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 minimise 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 1 mm 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.



4.3.3. Uncertainty Assessment

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

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		·	<u> </u>	<u> </u>				<u>+</u>	<u>†_</u>
Probe calibration	E.2.1	7.0	Ν	1	1	1	7.00	7.00	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
Axial Isotropy	E.2.2	2.5	R	√3	(1-Cp) ^{1/2}	(1-Cp) ^{1/2}	1.02	1.02	
Hemispherical Isotropy	E.2.2	4.0	R	V3	√Cp	√Cp	1.63	1.63	
Boundary effect	E.2.3	1.0	R	V3	1 1	1 1	0.58	0.58	8
Linearity	E.2.4	5.0	R	V3	1	1	2.89	2.89	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
System detection limits	E.2.5	1.0	R	V3	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	V3	1	1	1.15	1.15	
RF ambient Conditions	E.6.1	3.0	R	V3	1	1	1.73	1.73	
Probe positioner Mechanical Tolerance	E.6.2	2.0	R	V3 √3	1	1	1.15	1.15	~
Probe positioning with respect to Phantom Shell	E.6.3	0.05	R	√3	1	1	0.03	0.03	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
Extrapolation, interpolation and integration Algoritms for Max. SAR Evaluation	E.5.2	5.0	R	√3	1	1	2.89	2.89	~~
Test sample Related		T		1		T	†	1	
Test sample positioning	E.4.2.1	0.03	Ν	1	1	1	0.03	0.03	N-
Device Holder Uncertainty	E.4.1.1	5.00	Ν	1	1	1	5.00	5.00	
Output power Variation - SAR drift measurement	6.6.2	4.76	R	√3	1	1	2.75	2.75	~
Phantom and Tissue Parameters									\uparrow
Phantom Uncertainty (Shape and thickness tolerances)	E.3.1	0.05	R	√3	1	1	0.03	0.03	~
Liquid conductivity - deviation from target value	E.3.2	0.57	R	√3	0.64	0.43	0.21	0.14	~



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Liquid conductivity -	E.3.3	5.00	Ν	1	0.64	0.43	3.20	2.15	М
measurement uncertainty									
Liquid permittivity - deviation	E.3.2	3.66	R	1	0.6	0.49	1.27	1.04	8
from target value				¥3					~~~~
Liquid permittivity -	E.3.3	10.00	Ν	1	0.6	0.49	6.00	4.90	М
measurement uncertainty									
Combined Standard Uncertainty			RSS				11.28	10.78	
Expanded Uncertainty			k				21.99	21.03	
(95% Confidence interval)									

4.3.4. Equipments and results of validation testing

Equipments :

name	Type and specification
Signal generator	E4433B
Directional coupler	450MHz-3GHz
Amplifier	3W 502(10-2500MHz)
Reference dipole	SN 36/08 DIPF 101

Results:

Frequency	Target value (1g)	Test value (1g)		
835MHz	10.8W/Kg	10.7(head)	10.9(body)	

Note:Please refer to check the system performance data, the first 77-82 page. 250 mW input power



4.3.5. Dielectric Performance

The measured 1-gram averaged SAR values of the device against the head and the body are provided in Tables 1 and 2 respectively. The humidity and ambient temperature of test facility were 54% ~60%and $23.0 \ ^{\circ}C ~23.8 \ ^{\circ}C$ respectively. The SAM head phantom (SN 0381 SH) were full of the head tissue simulating liquid. 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). A base station simulator was used to control the device during the SAR measurement. The phone was supplied with full-charged battery for each measurement.

For head measurement, the device was tested at the lowest, middle and highest frequencies in the transmit band.

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 (Mar 26)	835 MHZ	41. 790001	0.867138			

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

Table 2: Dielectric Performance of Body Tissue Simulating Liquid

Temperature: 23.0~23.8°C, humidity: 54~60%.					
/	Frequency	Permittivity ε	Conductivity σ (S/m)		
Target value	835 MHz	56.1	0.95		
Validation value (Mar 26)	835 MHZ	54. 116001	0. 989164		



4.3.6. Simulant liquids

Simulant liquids that are used for testing at frequencies of GSM 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 20litres for a horizontal bath phantom.

Ingredients	Frequency Band	
(% by weight)	835	
Tissue Type	Head	Body
Water	41.45	52.4
Salt(NaCl)	1.45	1.4
Sugar	56.0	45.0
HEC	1.0	1.0
Bactericide	0.1	0.1
Triton	0.0	0.0
DGBE	0.0	0.0
Acticide SPX	0.0	0.0
Dielectric Constant	42.45	56.1
Conductivity (S/m)	0.91	0.95



4.4. MEASUREMENT PROCEDURES

4.4.1. Procedures Used To Establish Test Signal

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

4.4.2 SAR Measurement Conditions for CDMA2000 1x

These procedures were followed according to FCC "SAR Measurement Procedures for 3G Devices", June 2006.

4.4.2.1 Output Power Verification

See 3GPP2 C.S0011/TIA-98-E as recommended by "SAR Measurement Procedures for 3G Devices", June 2006.

Maximum output power is verified on the High, Middle and Low channels according to procedures defined in section 4.4.5.2 of 3GPP2 C.S0011/TIA-98-E. SO55 tests were measured with power control bits in "All Up" condition.

1. If the mobile station supports Reverse TCH RC 1 and Forward TCH RC 1, set up a call using Fundamental Channel Test Mode 1 (RC=1/1) with 9600 bps data rate only.

2. Under RC1, C.S0011 Table 4.4.5.2-1 (Table.A) parameters were applied.

3. If the MS supports the RC 3 Reverse FCH, RC3 Reverse SCH0 and demodulation of RC 3, 4, or 5, set up a call using Supplemental Channel Test Mode 3 (RC 3/3) with 9600 bps Fundamental Channel and 9600 bps SCH0 data rate Channel and 9600 bps SCH0 data rate.

4. Under RC3, C.S0011 Table 4.4.5.2-2(Table.B) was applied.

5. FCHs were configured at full rate for maximum SAR with "All Up" power control bits. Table.A Table.B

Parameters for Max. Power for RC1				
Parameter	Units	Value		
Lor	4Bm/1.23 MHz	-104		
$\frac{Pilot \ E_{c}}{I_{cc}}$	dB	-7		
Traffic E _c	dB	-7.4		

Parameter	Units	Value
lor	dBm/1.23 MHz	-86
Prior Ec lor	dB	-7
Traffic E _c	dB	-7.4

Table.A

Tabl	e. B
------	------

4.4.2.2 Head SAR Measurement

SAR for head exposure configurations is measured in RC3 with the DUT configured to transmit at



fullrate using Loopback Service Option SO55. SAR for RC1 is not required when the maximum average output of each channel is less than ¹/₄ dB higher than that measured in RC3. Otherwise, SAR is measured on the maximum output channel in RC1 using the exposure configuration that results in the highest SAR for that channel in RC3.

4.4.2.3 Body SAR Measurement

SAR for body exposure configurations is measured in RC3 with the DUT configured to transmit at full rate on FCH with all other code channels disabled using TDSO / SO32. SAR for multiple code channels (FCH + SCHn) is not required when the maximum average output of each RF channel is less than ¼ dB higher than that measured with FCH only. Otherwise, SAR is measured on the maximum output channel (FCH + SCHn) with FCH at full rate and SCH0 enabled at 9600 bps using the exposure configuration that results in the highest SAR for that channel with FCH only. When multiple code channels are enabled, the DUT output may shift by more than 0.5 dB and lead to higher SAR drifts and SCH dropouts. Body SAR in RC1 is not required when the maximum average output of each channel is less than ¼ dB higher than that measured in RC3. Otherwise, SAR is measured on the maximum output channel in RC1; with Loopback Service Option SO55, at full rate, using the body exposure configuration that results in the highest SAR for that channel in RC3.

Channal	Radio Configuration aud conducted Power (dBm)				
Channel	RC1	RC2	RC3	RC4	RC5
Low	26.81	26.84	26.34	26.85	26.88
Mid	26.75	26.45	26.62	26.35	26.7
High	27.51	27.41	27.53	27.55	27.51
SO	SO2	SO9	SO55	SO55	SO55

4.5. Items used in the Test Results List

Terms in the column "Verdict" for the test results list of the section 4.6:

Verdict	Description
PASS	EUT passed this test case
FAIL	EUT failed this test case
INC.	EUT did not pass and did not fail this test case, therefore the verdict is inconclusive
Decl.	"Declaration": Morlab has received documents from the applicant and/or manufacturer which show conformity to the applied standards for this test case.
N/A	Test case not applicable for the EUT, see the column "Note" for detailed



4.6. Test Results List

Summary of Measurement Results (CDMA 800MHz Band) SAR Values (CDMA 800MHz Band), Measured against the head.

Temperature: 23.0~23.8°C, humidity: 54~60%.					
Limit of SAR (W/kg)	1 g A	1 g Average			
Limit of SAR (W/Kg)		1.6			
	Measurement Result (W/kg)				
Test Case	1 g Average	Power level			
	(W/kg)	(dBm)			
Left head, Touch cheek, Channel Low	1.111	26.88			
Left head, Touch cheek, Channel Middle	1.273	26.7			
Left head, Touch cheek, Channel High	1.299	27.55			
Left head, Tilt 15 Degree, Channel Low	0.664	26.88			
Left head, Tilt 15 Degree, Channel Middle	0.766	26.7			
Left head, Tilt 15 Degree, Channel High	0.794	27.55			
Right head, Touch cheek, Channel Low	1.334	26.88			
Right head, Touch cheek, Channel Middle	1.459	26.7			
Right head, Touch cheek, Channel High	1.063	27.55			
Right head, Tilt 15 Degree, Channel Low	0.898	26.88			
Right head, Tilt 15 Degree, Channel Middle	0.962	26.7			
Right head, Tilt 15 Degree, Channel High	0.711	27.55			





Temperature: 23.0~23.8°C, humidity: 54~60%.		
Limit of SAR (W/kg)	1 g Average	
	1.6	
Test Case	Measurement Result (W/kg	
	1 g Average	Power level
	(W/kg)	(dBm)
Side, Low frequency	0.931	26.88
Side, Middle frequency	0.978	26.7
Side, High frequency	0.729	27.55
Side, Middle frequency(with Headphone)	0.829	26.7
Side, Middle frequency(back)	0.672	26.7

Note: 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)

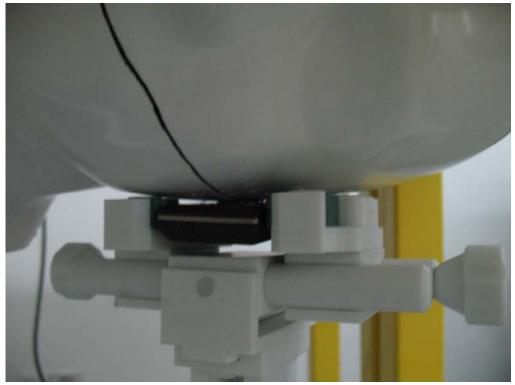




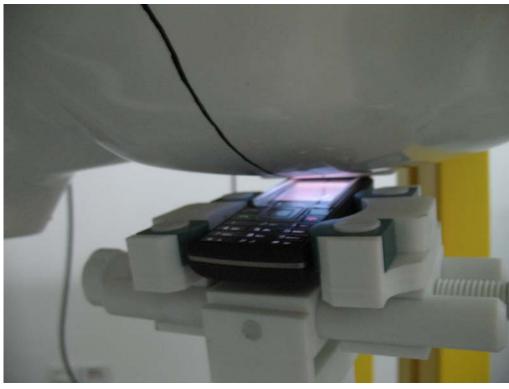


Annex B Photographs of the EUT

1 EUT Left Head Touch Cheek Position

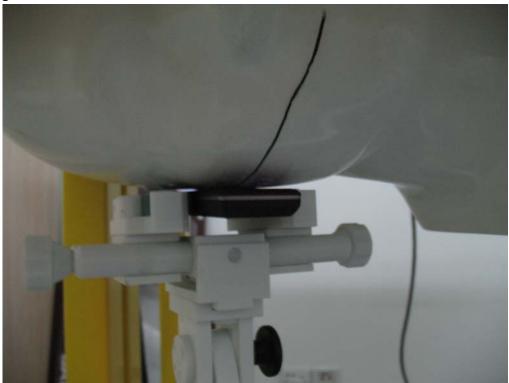


2 EUT Left Head Tilt15 Position





3 EUT Right Head Touch Cheek Position



4 EUT Right Head Tilt15 Position





5 spacer 1.5cm



6 Side Position





7 EUT with Headphone





Annex C Graph Test Results

	BAND	PARAMETERS
		Measurement 1: Right Head with Cheek device position
		on Low Channel in CDMA mode
		Measurement 2: Right Head with Cheek device position
		on Middle Channel in CDMA mode
		Measurement 3: Right Head with Cheek device position
		on High Channel in CDMA mode
		Measurement 4: Right Head with Tilt device position on
		Low Channel in CDMA mode
		Measurement 5: Right Head with Tilt device position on
		Middle Channel in CDMA mode
		Measurement 6: Right Head with Tilt device position on
		High Channel in CDMA mode
		Measurement 7: Left Head with Cheek device position
		on Low Channel in CDMA mode
		Measurement 8: Left Head with Cheek device position
		on Middle Channel in CDMA mode
TYPE	<u>CDMA85</u>	Measurement 9: Left Head with Cheek device position
		on High Channel in CDMA mode
	<u>0</u>	Measurement 10: Left Head with Tilt device position on
		Low Channel in CDMA mode
		Measurement 11: Left Head with Tilt device position on
		Middle Channel in CDMA mode
		Measurement 12: Left Head with Tilt device position on
		High Channel in CDMA mode
		<u>Measurement 13:</u> Validation Plane with Body device
		position on Low Channel in CDMA mode
		Measurement 14: Validation Plane with Body device
		position on Middle Channel in CDMA mode
	<u>Measurement 15:</u> Validation Plane with Body device	
	position on High Channel in CDMA mode	
	Measurement 16: Validation Plane with Body device	
	position on Low Channel in CDMA mode	
		(with Headphone)
		Measurement 17: Validation Plane with Body device
	position on Low Channel in CDMA mode (back)	



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: 26/3/2009

Measurement duration: 7 minutes 35 seconds

A. Experimental conditions.

Phantom File	sam_direct_droit2_surf8mm.txt
Phantom	Right head
Device Position	Cheek
Band	CDMA850
Channels	Low
Signal	CDMA

C. SAR Measurement Results

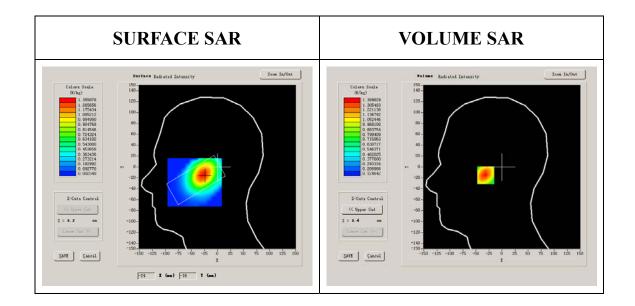
Lower Band SAR (Channel 1013):

Frequency (MHz)	824.700012
Relative permittivity (real part)	41.790001
Relative permittivity	18.926250



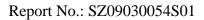
Report No.: SZ09030054S01

Conductivity (S/m)	0.867138
Variation (%)	-0.360000
Ambient Temperature:	21.9°C
Liquid Temperature:	21.4°C
Probe Serial Number:	SN_3708_EP80
Crest factor:	1:1

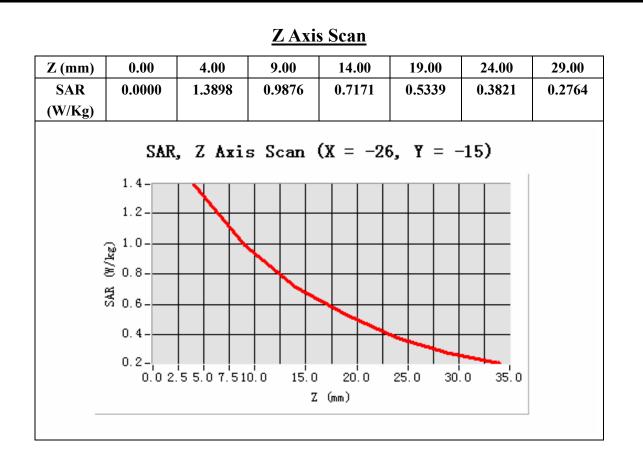


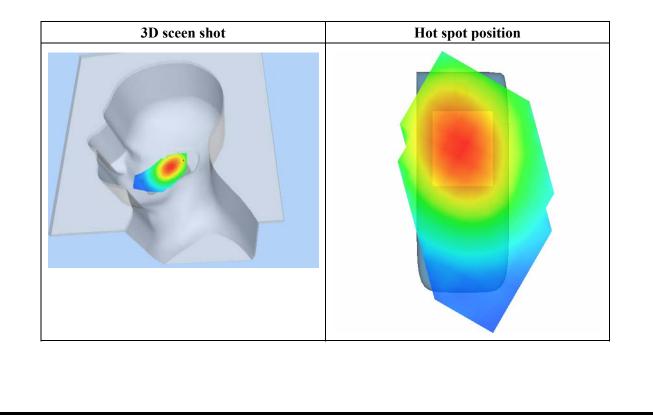
Maximum location: X=-26.00, Y=-15.00

SAR 10g (W/Kg)	0.893489
SAR 1g (W/Kg)	1.333780











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: 26/3/2009

Measurement duration: 7 minutes 37 seconds

A. Experimental conditions.

Phantom File	sam_direct_droit2_surf8mm.txt
Phantom	Right head
Device Position	Cheek
Band	CDMA850
Channels	Middle
Signal	CDMA

C. SAR Measurement Results

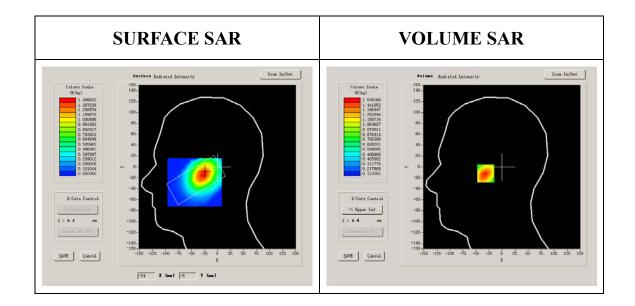
Middle Band SAR (Channel 384):

Frequency (MHz)	836.520020
Relative permittivity (real part)	41.790001
Relative permittivity	18.926250



Report No.: SZ09030054S01

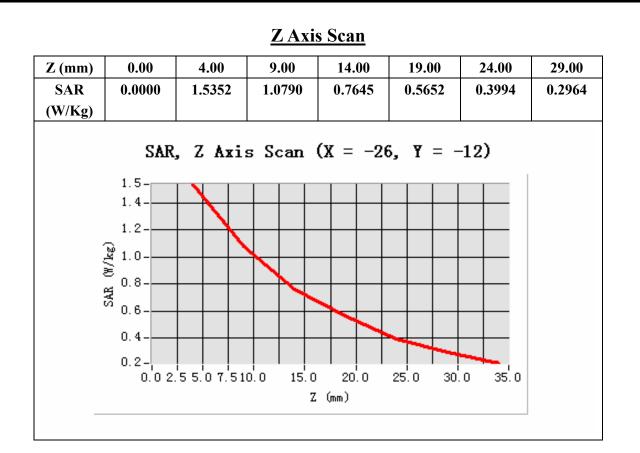
Conductivity (S/m)	0.879566
Variation (%)	-1.980000
Ambient Temperature:	21.9°C
Liquid Temperature:	21.4°C
Probe Serial Number:	SN_3708_EP80
Crest factor:	1:1

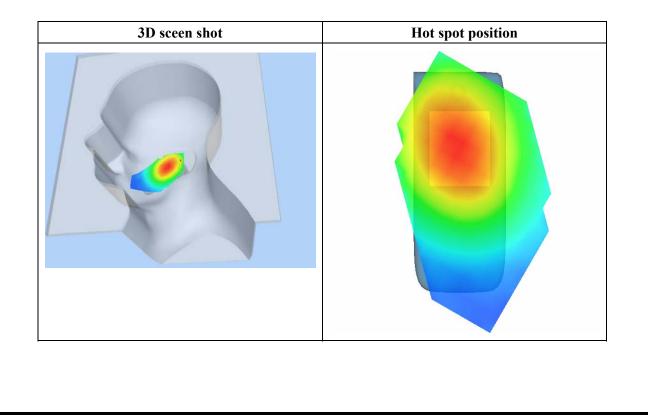


Maximum location: X=-26.00, Y=-12.00

SAR 10g (W/Kg)	0.974544
SAR 1g (W/Kg)	1.458788









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: 26/3/2009

Measurement duration: 7 minutes 37 seconds

A. Experimental conditions.

Phantom File	sam_direct_droit2_surf8mm.txt
Phantom	Right head
Device Position	Cheek
Band	CDMA850
Channels	High
Signal	CDMA

B. SAR Measurement Results

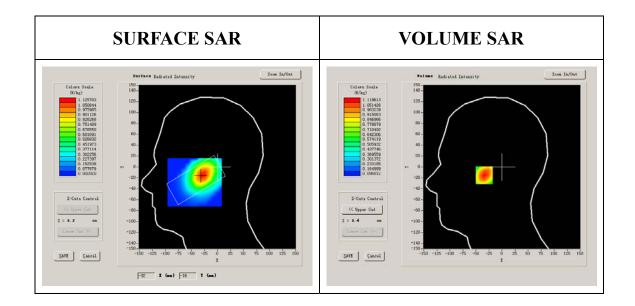
Higher Band SAR (Channel 777):

Frequency (MHz)	848.309998
Relative permittivity (real part)	41.790001
Relative permittivity	18.926250



Report No.: SZ09030054S01

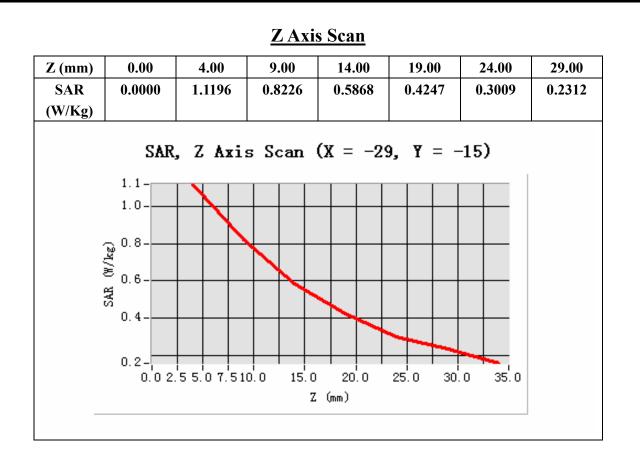
Conductivity (S/m)	0.891963
Variation (%)	0.270000
Ambient Temperature:	21.9°C
Liquid Temperature:	21.4°C
Probe Serial Number:	SN_3708_EP80
Crest factor:	1:1

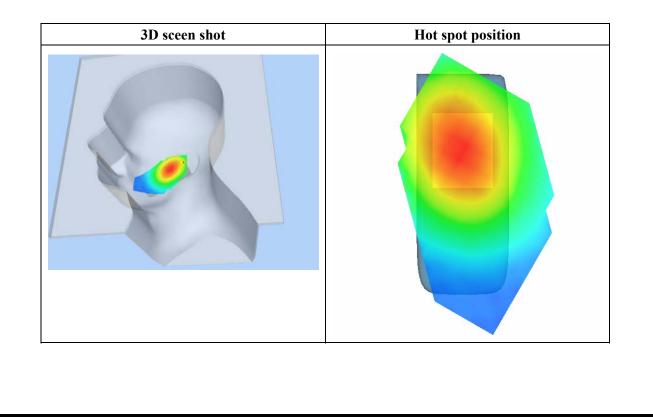


Maximum location: X=-29.00, Y=-15.00

SAR 10g (W/Kg)	0.718479
SAR 1g (W/Kg)	1.063345









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: 26/3/2009

Measurement duration: 7 minutes 32 seconds

A. Experimental conditions.

Phantom File	sam_direct_droit2_surf8mm.txt
Phantom	Right head
Device Position	Tilt
Band	CDMA850
Channels	Low
Signal	CDMA

B. SAR Measurement Results

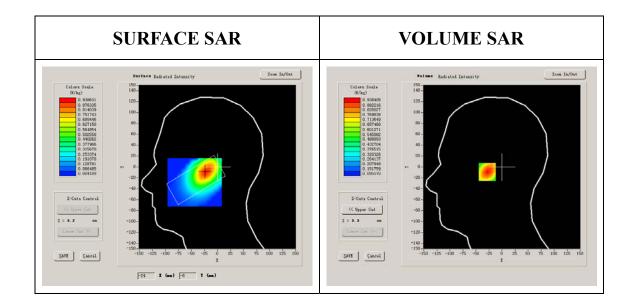
Lower Band SAR (Channel 1013):

Frequency (MHz)	824.700012
Relative permittivity (real part)	41.790001
Relative permittivity	18.926250



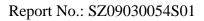
Report No.: SZ09030054S01

Conductivity (S/m)	0.867138
Variation (%)	-0.690000
Ambient Temperature:	21.9°C
Liquid Temperature:	21.4°C
Probe Serial Number:	SN_3708_EP80
Crest factor:	1:1

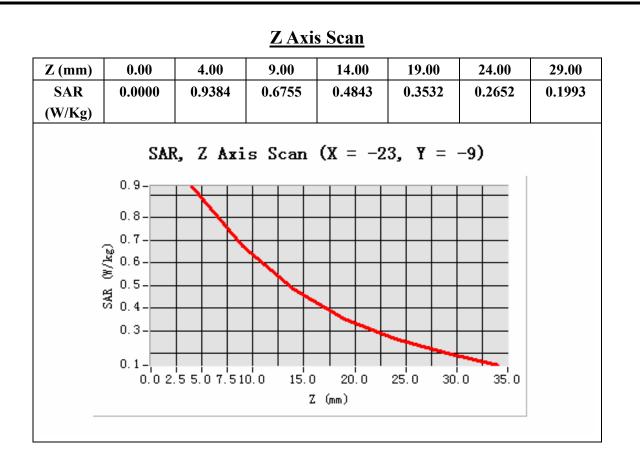


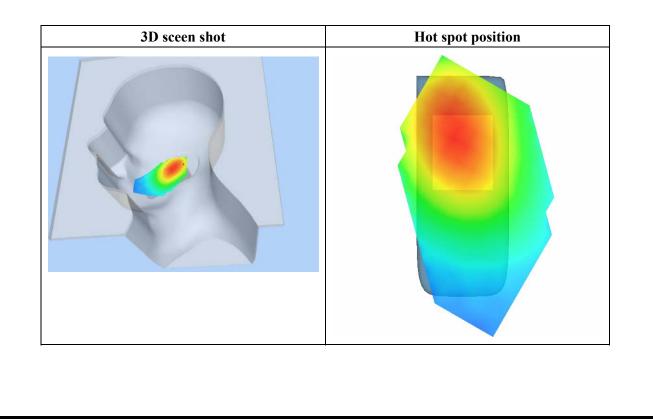
Maximum location: X=-23.00, Y=-9.00

SAR 10g (W/Kg)	0.608964
SAR 1g (W/Kg)	0.897889











Type: Phone measurement (Complete)

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

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

Date of measurement: 26/3/2009

Measurement duration: 7 minutes 34 seconds

A. Experimental conditions.

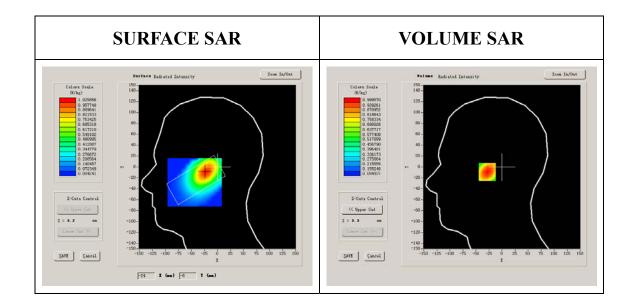
Phantom File	sam_direct_droit2_surf8mm.txt	
Phantom	Right head	
Device Position	Tilt	
Band	CDMA850	
Channels	Middle	
Signal	CDMA	

B. SAR Measurement Results

Frequency (MHz)	836.520020
Relative permittivity (real part)	41.790001
Relative permittivity	18.926250

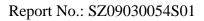


Conductivity (S/m)	0.879566
Variation (%)	-1.350000
Ambient Temperature:	21.9°C
Liquid Temperature:	21.4°C
Probe Serial Number:	SN_3708_EP80
Crest factor:	1:1



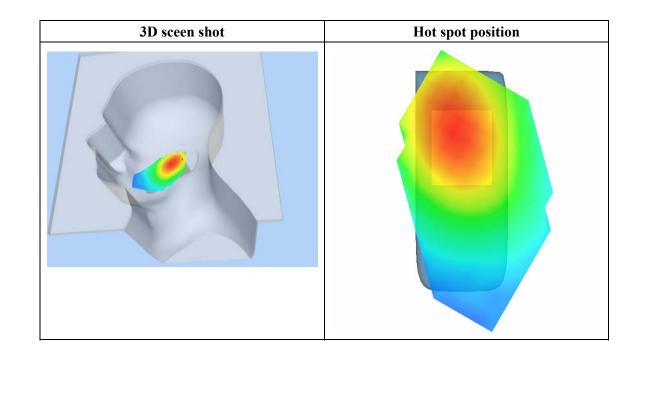
Maximum location: X=-23.00, Y=-9.00

SAR 10g (W/Kg)	0.658477
SAR 1g (W/Kg)	0.961546





Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.9996	0.7403	0.5367	0.4051	0.2925	0.2191
(W/Kg)							
	1.0- 0.9- 0.8- 0.7- 0.6- 0.5- 0.4- 0.3- 0.2-			(X = -2			





Type: P Phone measurement (Complete)

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

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

Date of measurement: 26/3/2009

Measurement duration: 7 minutes 33 seconds

A. Experimental conditions.

Phantom File	sam_direct_droit2_surf8mm.txt	
Phantom	Right head	
Device Position	Tilt	
Band	CDMA850	
Channels	High	
Signal	CDMA	

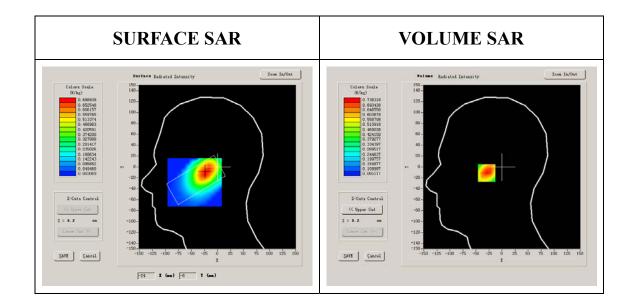
B. SAR Measurement Results

Higher Band SAR (Channel 777):

Frequency (MHz)	848.309998
Relative permittivity (real part)	41.790001
Relative permittivity	18.926250



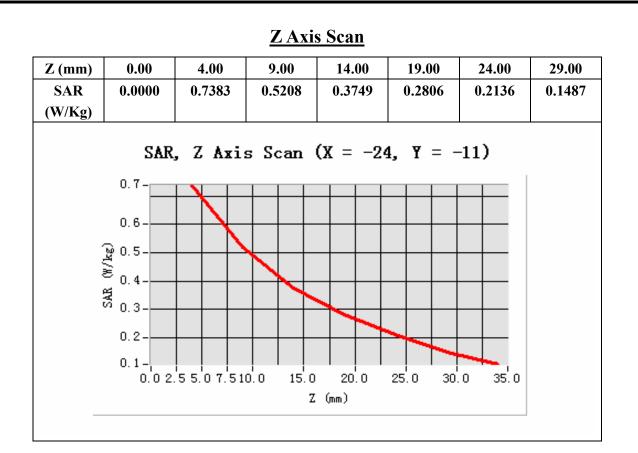
Conductivity (S/m)	0.891963
Variation (%)	2.330000
Ambient Temperature:	21.9°C
Liquid Temperature:	21.4°C
Probe Serial Number:	SN_3708_EP80
Crest factor:	1:1

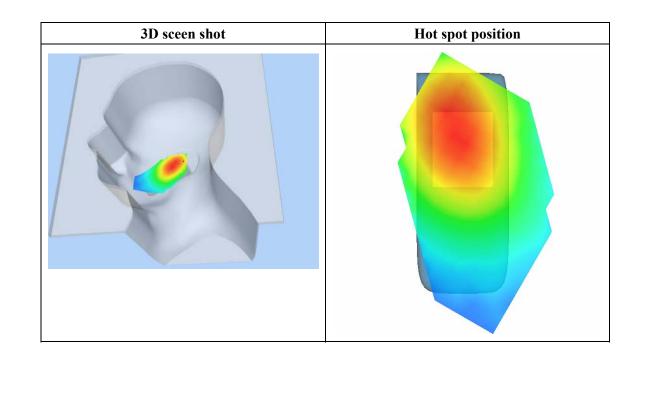


Maximum location: X=-24.00, Y=-11.00

SAR 10g (W/Kg)	0.473978
SAR 1g (W/Kg)	0.710686









Type: Phone measurement (Complete)

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

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

Date of measurement: 26/3/2009

Measurement duration: 7 minutes 40 seconds

A. Experimental conditions.

Phantom File	sam_direct_droit2_surf8mm.txt		
Phantom	Left head		
Device Position	Cheek		
Band	CDMA850		
Channels	Low		
Signal	CDMA		

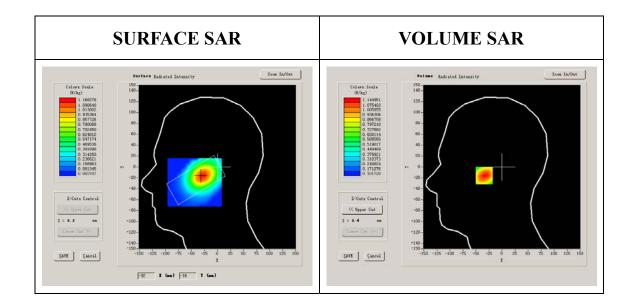
B. SAR Measurement Results

Lower Band SAR (Channel 1013):

Frequency (MHz)	824.700012
Relative permittivity (real part)	41.790001
Relative permittivity	18.926250

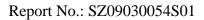


Conductivity (S/m)	0.867138
Variation (%)	-0.350000
Ambient Temperature:	21.9°C
Liquid Temperature:	21.4°C
Probe Serial Number:	SN_3708_EP80
Crest factor:	1:1



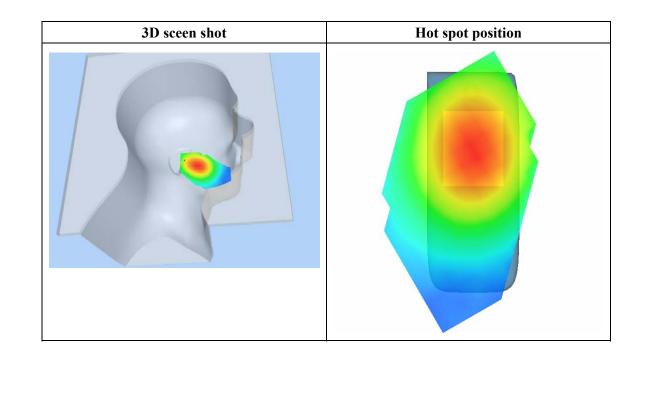
Maximum location: X=-29.00, Y=-16.00

SAR 10g (W/Kg)	0.747979
SAR 1g (W/Kg)	1.110736





SAR	0 0 0 0 0				19.00	24.00	29.00
W/Kg)	0.0000	1.1450	0.8329	0.6218	0.4498	0.3315	0.2466
		, Z Axi	s Scan	(X = -29	9, ¥ = -	-16)	
	1.1-						
	1.0-						
SAR (W/kg)	0.8						
ප	0.6-						
SAB							
	0.4	+ + + -	+ $+$ $+$			_	
	0.2-	.5 5.0 7.51	0.0 15.0	20.0	25.0 30	.0 35.0	





Type: Phone measurement (Complete)

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

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

Date of measurement: 26/3/2009

Measurement duration: 7 minutes 38 seconds

A. Experimental conditions.

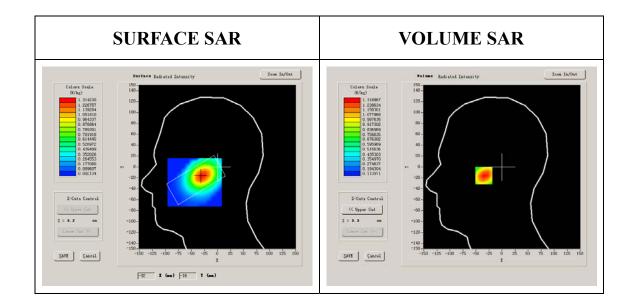
Phantom File	sam_direct_droit2_surf8mm.txt
Phantom	Left head
Device Position	Cheek
Band	CDMA850
Channels	Middle
Signal	CDMA

B. SAR Measurement Results

Frequency (MHz)	836.520020
Relative permittivity (real part)	41.790001
Relative permittivit	18.92625



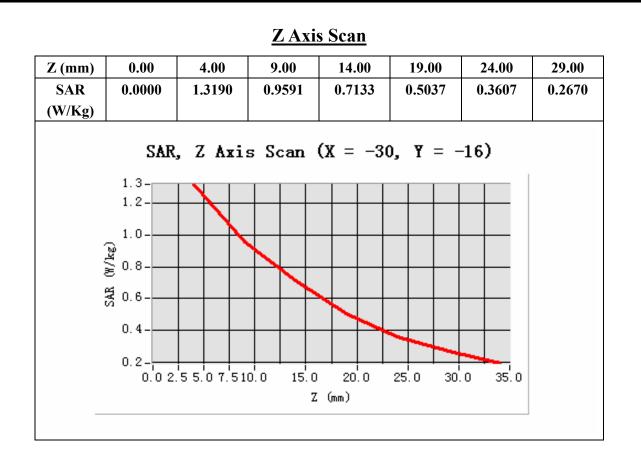
Conductivity (S/m)	0.879566
Variation (%)	0.430000
Ambient Temperature:	21.9°C
Liquid Temperature:	21.4°C
Probe Serial Number:	SN_3708_EP80
Crest factor:	1:1

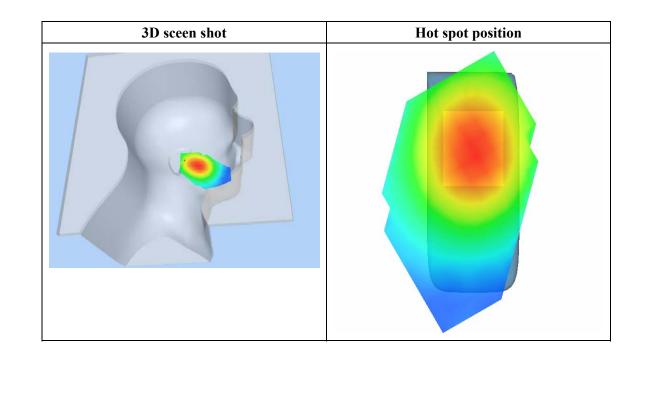


Maximum location: X=-30.00, Y=-16.00

SAR 10g (W/Kg)	0.859240
SAR 1g (W/Kg)	1.272882









Type: Phone measurement (Complete)

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

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

Date of measurement: 26/3/2009

Measurement duration: 7 minutes 35 seconds

A. Experimental conditions.

Phantom File	sam_direct_droit2_surf8mm.txt
Phantom	Left head
Device Position	Cheek
Band	CDMA850
Channels	High
Signal	CDMA

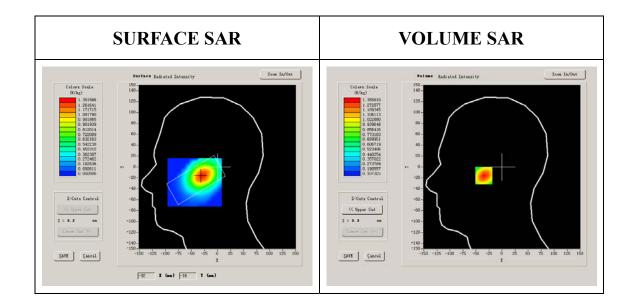
B. SAR Measurement Results

Higher Band SAR (Channel 777):

Frequency (MHz)	848.309998
Relative permittivity (real part)	41.790001
Relative permittivity	18.926250



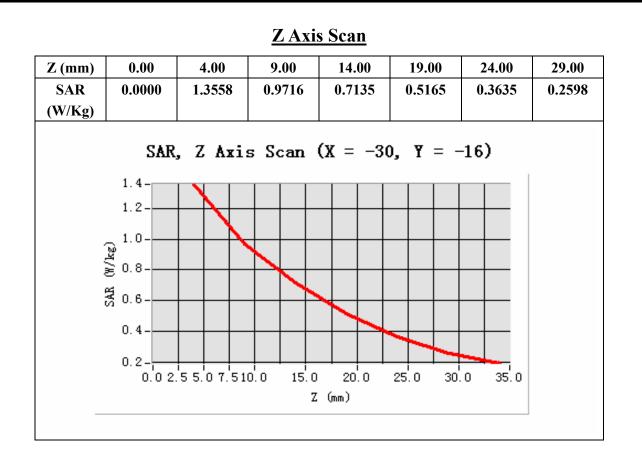
Conductivity (S/m)	0.891963
Variation (%)	-1.510000
Ambient Temperature:	21.9°C
Liquid Temperature:	21.4°C
Probe Serial Number:	SN_3708_EP80
Crest factor:	1:1

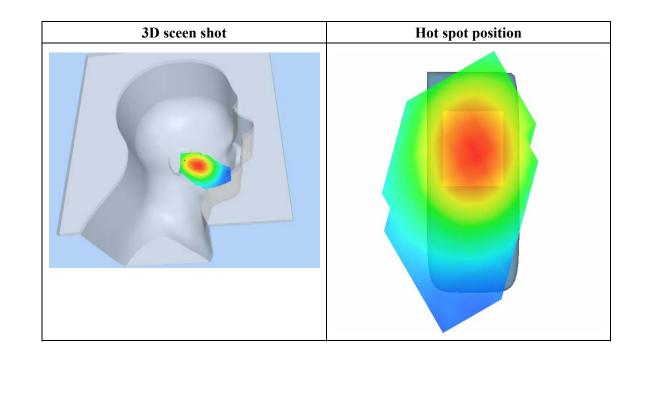


Maximum location: X=-30.00, Y=-16.00

SAR 10g (W/Kg)	0.871871
SAR 1g (W/Kg)	1.299085









Type: Phone measurement (Complete)

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

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

Date of measurement: 26/3/2009

Measurement duration: 7 minutes 36 seconds

A. Experimental conditions.

Phantom File	sam_direct_droit2_surf8mm.txt
Phantom	Left head
Device Position	Tilt
Band	CDMA850
Channels	Low
Signal	CDMA

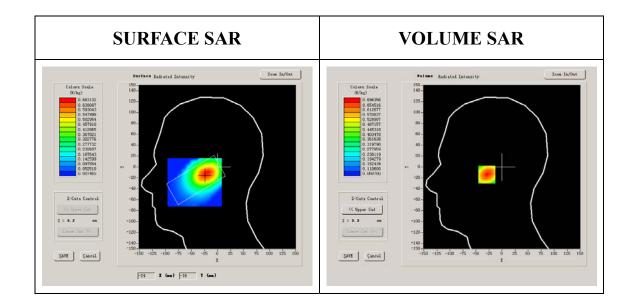
B. SAR Measurement Results

Lower Band SAR (Channel 1013):

Frequency (MHz)	824.700012
Relative permittivity (real part)	41.790001
Relative permittivity	18.926250



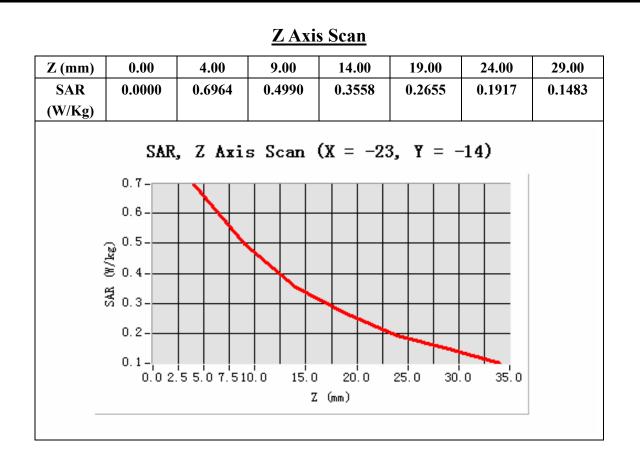
Conductivity (S/m)	0.867138			
Variation (%)	-0.610000			
Ambient Temperature:	21.9°C			
Liquid Temperature:	21.4°C			
Probe Serial Number:	SN_3708_EP80			
Crest factor:	1:1			

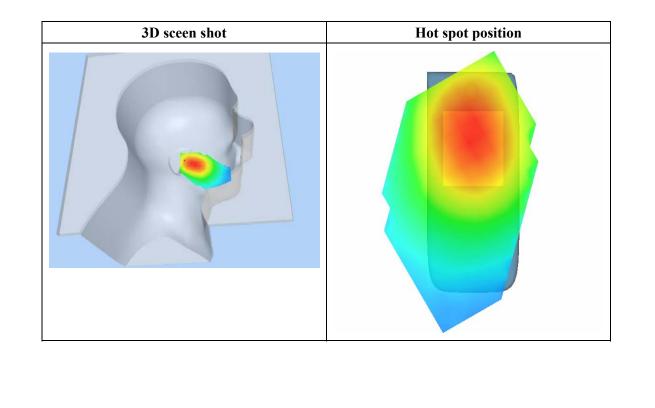


Maximum location: X=-23.00, Y=-14.00

SAR 10g (W/Kg)	0.451734		
SAR 1g (W/Kg)	0.664011		









Type: Phone measurement (Complete)

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

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

Date of measurement: 26/3/2009

Measurement duration: 7 minutes 33 seconds

A. Experimental conditions.

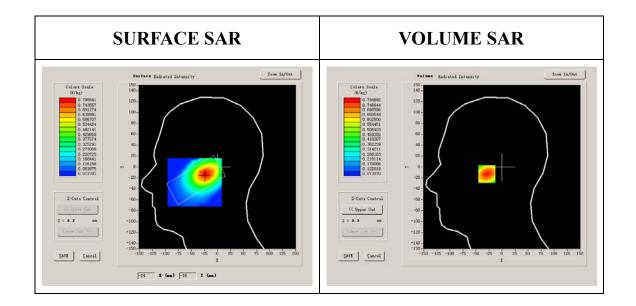
Phantom File	sam_direct_droit2_surf8mm.txt			
Phantom	Left head			
Device Position	Tilt			
Band	CDMA850			
Channels	Middle			
Signal	CDMA			

B. SAR Measurement Results

Frequency (MHz)	836.520020
Relative permittivity (real part)	41.790001
Relative permittivity	18.926250

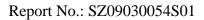


Conductivity (S/m)	0.879566			
Variation (%)	-0.950000			
Ambient Temperature:	21.9°C			
Liquid Temperature:	21.4°C			
Probe Serial Number:	SN_3708_EP80			
Crest factor:	1:1			

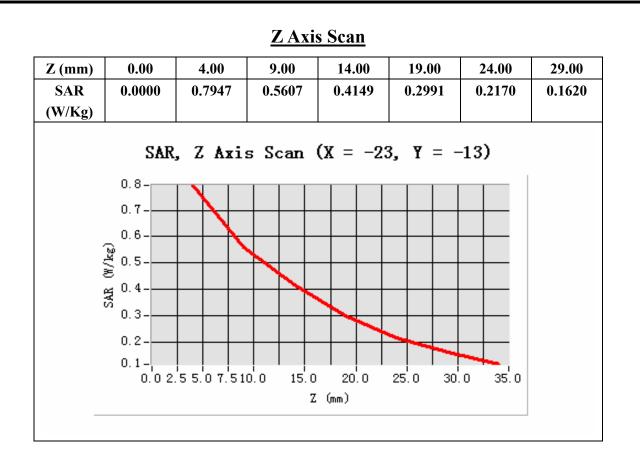


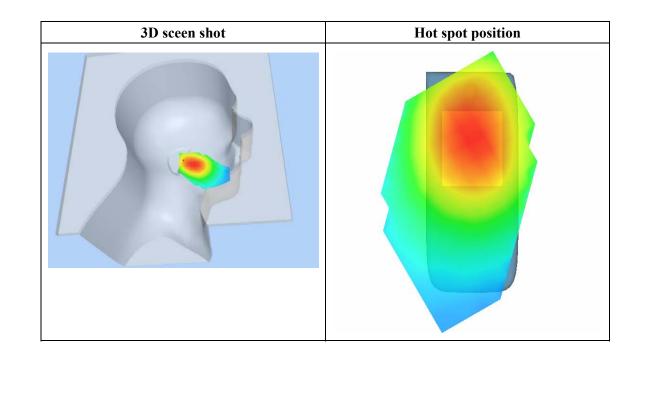
Maximum location: X=-23.00, Y=-13.00

SAR 10g (W/Kg)	0.518207
SAR 1g (W/Kg)	0.766111











Type: Phone measurement (Complete)

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

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

Date of measurement: 26/3/2009

Measurement duration: 7 minutes 34 seconds

A. Experimental conditions.

Phantom File	sam_direct_droit2_surf8mm.txt			
Phantom	Left head			
Device Position	Tilt			
Band	CDMA850			
Channels	High			
Signal	CDMA			

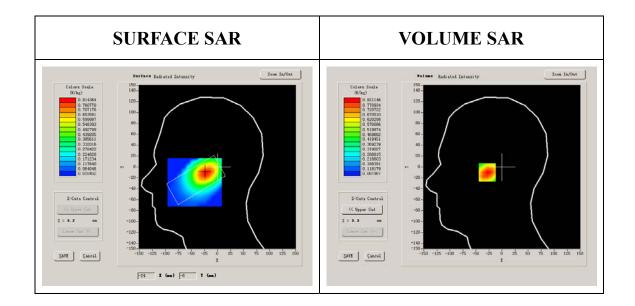
B. SAR Measurement Results

Higher Band SAR (Channel 777):

Frequency (MHz)	848.309998
Relative permittivity (real part)	41.790001
Relative permittivity	18.926250

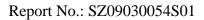


Conductivity (S/m)	0.891963			
Variation (%)	-1.280000			
Ambient Temperature:	21.9°C			
Liquid Temperature:	21.4°C			
Probe Serial Number:	SN_3708_EP80			
Crest factor:	1:1			



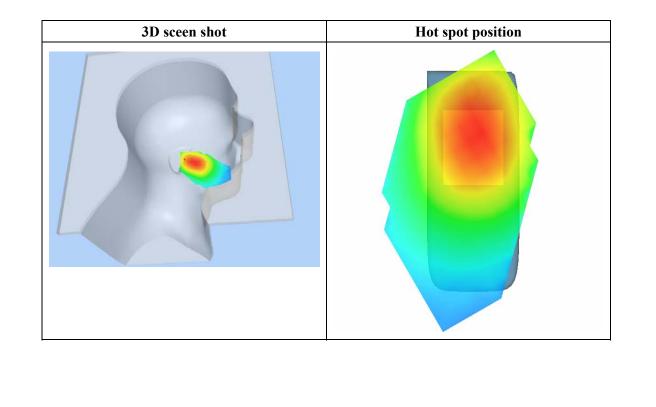
Maximum location: X=-23.00, Y=-10.00

SAR 10g (W/Kg)	0.538136		
SAR 1g (W/Kg)	0.794388		





Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR W/Kg)	0.0000	0.8211	0.5717	0.4258	0.3088	0.2219	0.1674
	SAR	, Z Axi	s Scan	(X = -23	3, ¥ = -	-10)	
	0.8-		+ + +				
	0.7-						
	_ 0.6-						
	(10.6 12) 4/) 20.5						
	e 20.4						
i	ភី 0.3						
	0.2-						
	0.1-						
		. 5 5. 0 7. 51	0.0 15.0	20.0	25.0 30	0 35.0	





Type: Phone measurement (Complete)

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

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

Date of measurement: 26/3/2009

Measurement duration: 9 minutes 12 seconds

A. Experimental conditions.

Phantom File	surf_sam_plan.txt			
Phantom	Validation plane			
Device Position	Body			
Band	CDMA850			
Channels	Low			
Signal	CDMA			

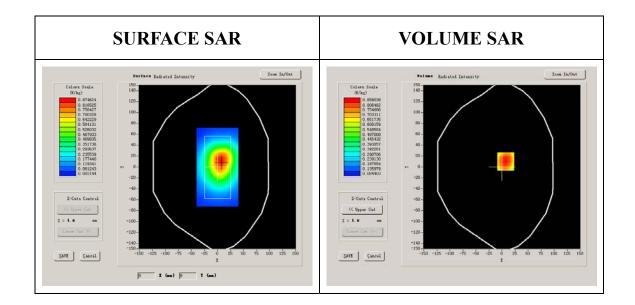
B. SAR Measurement Results

Lower Band SAR (Channel 1013):

Frequency (MHz)	824.700012
Relative permittivity (real part)	54.116001
Relative permittivity	21.284550

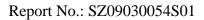


Conductivity (S/m)	0.975187
Variation (%)	-1.470000
Ambient Temperature:	21.9°C
Liquid Temperature:	21.4°C
Probe Serial Number:	SN_3708_EP80
Crest factor:	1:1

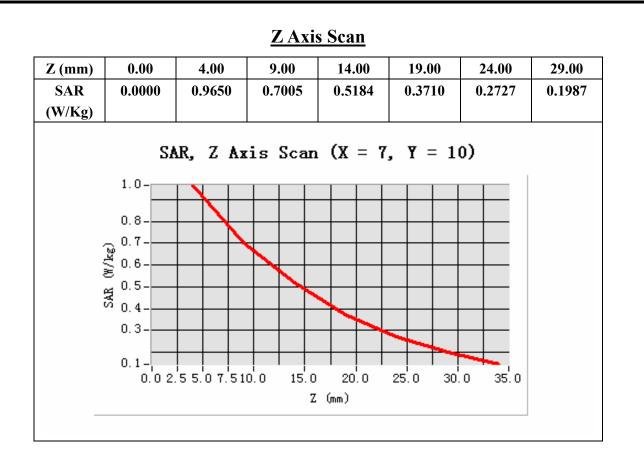


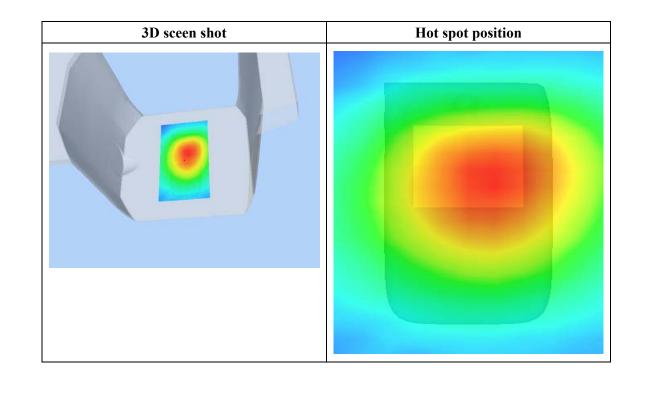
Maximum location: X=7.00, Y=10.00

SAR 10g (W/Kg)	0.647994
SAR 1g (W/Kg)	0.930814











Type: Phone measurement (Complete)

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

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

Date of measurement: 26/3/2009

Measurement duration: 9 minutes 12 seconds

A. Experimental conditions.

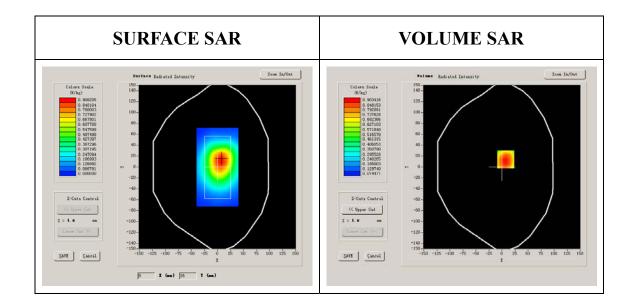
Phantom File	surf_sam_plan.txt
Phantom	Validation plane
Device Position	Body
Band	CDMA850
Channels	Middle
Signal	CDMA

B. SAR Measurement Results

Frequency (MHz)	836.520020
Relative permittivity (real part)	54.116001
Relative permittivity	21.284550

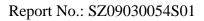


Conductivity (S/m)	0.989164
Variation (%)	-0.960000
Ambient Temperature:	21.9°C
Liquid Temperature:	21.4°C
Probe Serial Number:	SN_3708_EP80
Crest factor:	1:1

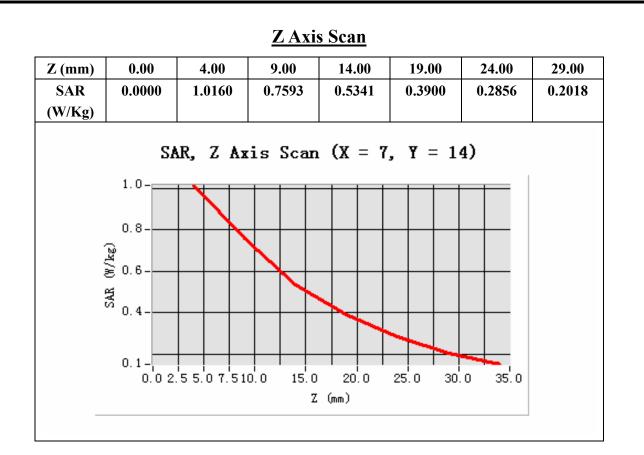


Maximum location: X=7.00, Y=14.00

SAR 10g (W/Kg)	0.682616
SAR 1g (W/Kg)	0.978438







3D sceen shot	Hot spot position



Type: Phone measurement (Complete)

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

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

Date of measurement: 26/3/2009

Measurement duration: 9 minutes 12 seconds

A. Experimental conditions.

Phantom File	surf_sam_plan.txt
Phantom	Validation plane
Device Position	Body
Band	CDMA850
Channels	High
Signal	CDMA

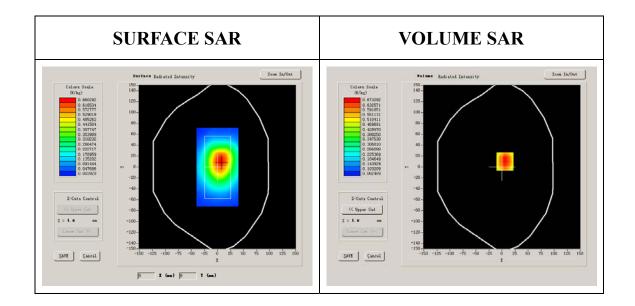
B. SAR Measurement Results

Higher Band SAR (Channel 777):

Frequency (MHz)	848.309998
Relative permittivity (real part)	54.116001
Relative permittivity	21.284550

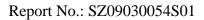


Conductivity (S/m)	1.003105
Variation (%)	0.300000
Ambient Temperature:	21.9°C
Liquid Temperature:	21.4°C
Probe Serial Number:	SN_3708_EP80
Crest factor:	1:1

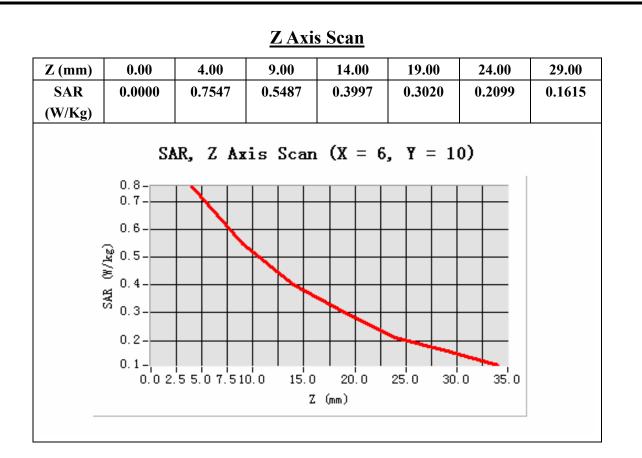


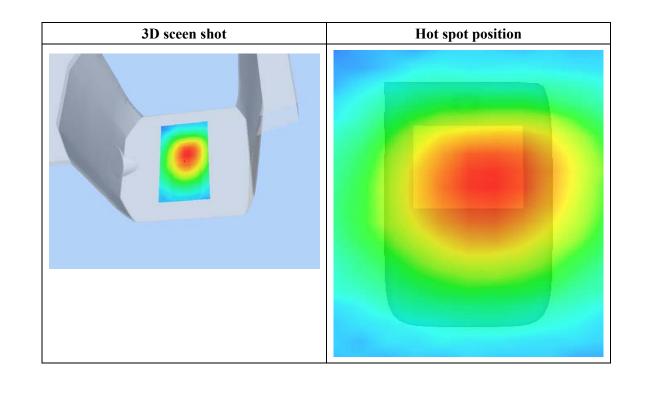
Maximum location: X=6.00, Y=10.00

SAR 10g (W/Kg)	0.498752
SAR 1g (W/Kg)	0.728563











MEASUREMENT 16 (with earphone)

Type: Phone measurement (Complete)

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

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

Date of measurement: 26/3/2009

Measurement duration: 9 minutes 13 seconds

A. Experimental conditions.

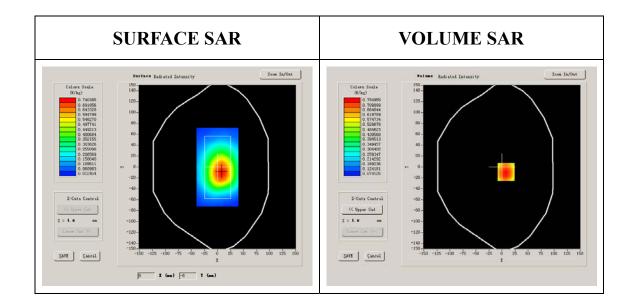
Phantom File	surf_sam_plan.txt	
Phantom	Validation plane	
Device Position	Body	
Band	CDMA850	
Channels	Middle	
Signal	CDMA	

B. SAR Measurement Results

Frequency (MHz)	836.520020
Relative permittivity (real part)	54.116001
Relative permittivity	21.284550

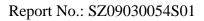


Conductivity (S/m)	0.989164		
Variation (%)	0.030000		
Ambient Temperature:	21.9°C		
Liquid Temperature:	21.4°C		
Probe Serial Number:	SN_3708_EP80		
Crest factor:	1:1		

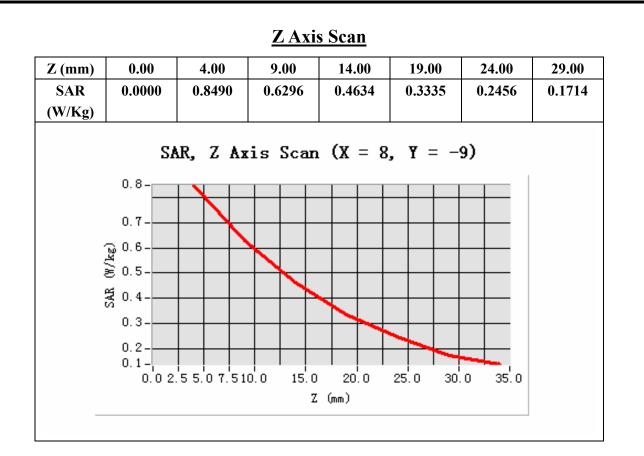


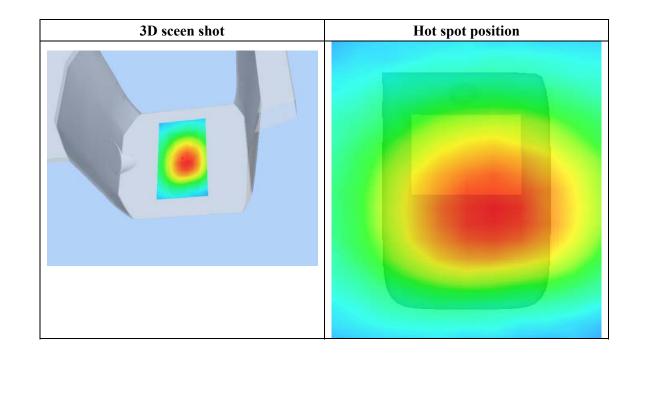
Maximum location: X=8.00, Y=-9.00

SAR 10g (W/Kg)	0.573004
SAR 1g (W/Kg)	0.828658











MEASUREMENT 17 (back)

Type: Phone measurement (Complete)

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

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

Date of measurement: 26/3/2009

Measurement duration: 9 minutes 10 seconds

A. Experimental conditions.

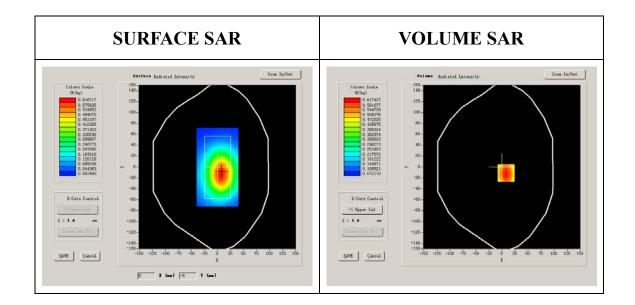
Phantom File	surf_sam_plan.txt	
Phantom	Validation plane	
Device Position	Body	
Band	CDMA850	
Channels	Middle	
Signal	CDMA	

C. SAR Measurement Results

Frequency (MHz)	836.520020
Relative permittivity (real part)	54.116001
Relative permittivity	21.284550

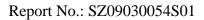


Conductivity (S/m)	0.989164		
Variation (%)	-0.490000		
Ambient Temperature:	21.9°C		
Liquid Temperature:	21.4°C		
Probe Serial Number:	SN_3708_EP80		
Crest factor:	1:1		



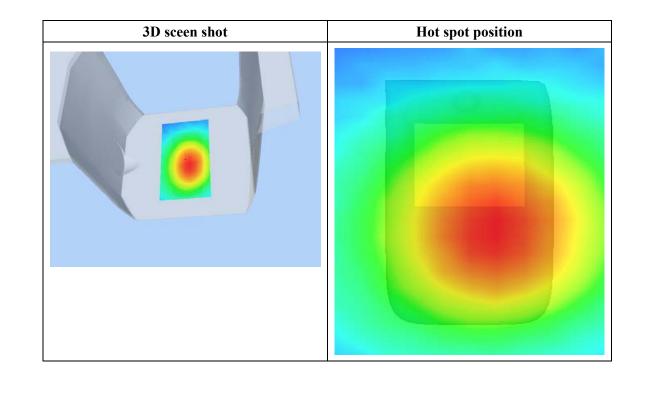
Maximum location: X=8.00, Y=-11.00

SAR 10g (W/Kg)	0.468809
SAR 1g (W/Kg)	0.672185





Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR W/Kg)	0.0000	0.6944	0.5130	0.3726	0.2745	0.2067	0.1523
	SA	R, Z Ax	is Scan	(X = 8,	¥ = -1	1)	
	0.7-						
	0.6-		+				
	- 0.5-						
	0.5- ∰ € 0.4-		NI				
1	g 0.3-						
	0.2-						
	0.2-						
	0.1-	.5 5.0 7.51				0 05 0	
	0.02	.55.07.51		20.0 (mm)	25.0 30	.0 35.0	





System Performance Check Data(Head)

Type: Phone measurement (Complete)

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

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

Date of measurement: 26/3/2009

Measurement duration: 9 minutes 40 seconds

A. Experimental conditions.

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

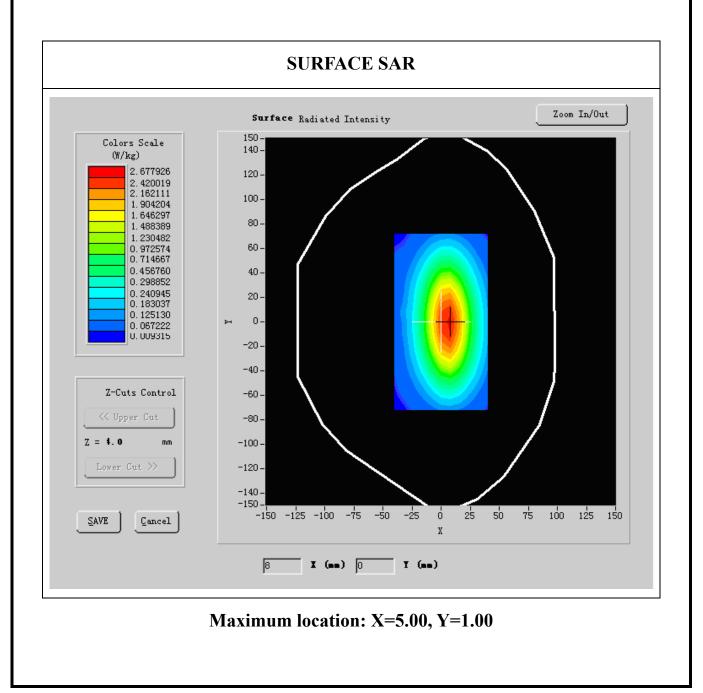
B. SAR Measurement Results

Band SAR:

Frequency (MHz)	835.000000	
Relative permittivity (real part)	41.790001	
Relative permittivity	15.070000	
Conductivity (S/m)	0.879566	

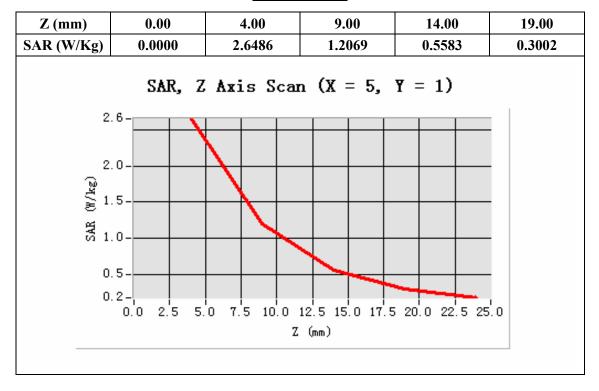


Variation (%)	-0.050000
Ambient Temperature:	22.9°C
Liquid Temperature:	22.9°C
Probe Serial Number:	SN_3708_EP80
Crest factor:	1:1





SAR 10g (W/Kg)	1.341223
SAR 1g (W/Kg)	2.682145



<u>Z Axis Scan</u>



System Performance Check Data(Body)

Type: Phone measurement (Complete)

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

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

Date of measurement: 26/3/2009

Measurement duration: 9 minutes 40 seconds

A. Experimental conditions.

Phantom File	surf_sam_plan.txt
Phantom	Validation plane
Device Position	Body
Band	835 MHz
Signal	CDMA

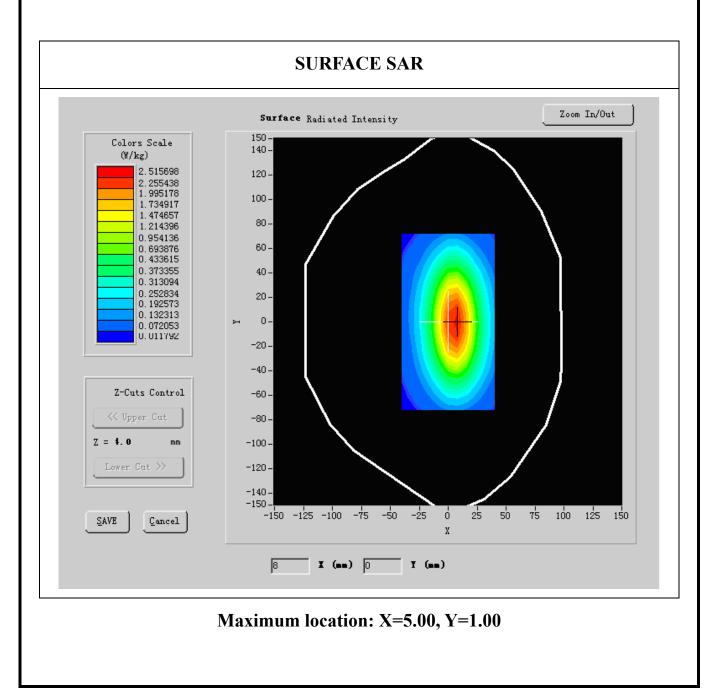
B. SAR Measurement Results

Band SAR:

Frequency (MHz)	835.000000
Relative permittivity (real part)	54.116001
Relative permittivity	15.070000
Conductivity (S/m)	0.989164

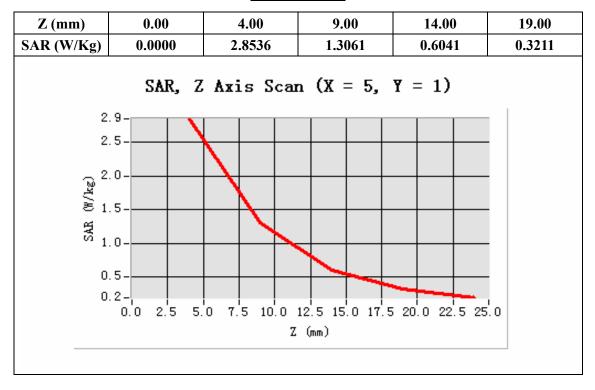


Variation (%)	-0.140000
Ambient Temperature:	22.9°C
Liquid Temperature:	22.9°C
Probe Serial Number:	SN_3708_EP80
Crest factor:	1:1





SAR 10g (W/Kg)	1.248553
SAR 1g (W/Kg)	2.725564



<u>Z Axis Scan</u>