

FCC SAR

TEST REPORT

of

GSM Mobile Phone

Model Name:

CP09

Trade Name:

Newplan Mobile

Report No.:

SZ09110036S01

FCC ID:

XY2CP09

prepared for

NEWPLAN ENTERPRISES LIMITED

10/F Ideal Center 320-322 Kwun Tong Road, Kwun Tong KL,HK

Shenzhen Electronic Product Quality Testing Center
Morlab Laboratory

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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.:

SZ09110036S01

Date of Issue:

Dec 4, 2009

Date of Tests:

Nov 25, 2009 -Nov 25, 2009

Responsible for Accreditation:

Shu Luan

Project Manager:

Li Lei

Deputy Project Manager:

Chen Chao

1.3. Conclusion

Shenzhen Electronic Product Quality Testing Center Morlab Laboratory has verified that all tests as listed in the section 4.5 of this report haven been performed succ essfully with the tested equipment.

Chen Chao

Chen Muso

Tested by

(Responsible for the Test Report)

Reviewed by

erification of the Test Report)

Approved by

(Responsible Test Lab Manager)



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

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 0)

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: NEWPLAN ENTERPRISES LIMITED

Address: 10/F Ideal Center 320-322 Kwun Tong Road, Kwun Tong KL,HK

3.2. Identification of Manufacturer

Company Name: NEWPLAN ENTERPRISES LIMITED

Address: 10/F Ideal Center 320-322 Kwun Tong Road, Kwun Tong KL,HK

3.3. Equipment Under Test (EUT)

Brand Name: Newplan Mobile
Type Name: Newplan Mobile

Marking Name: CP09

Hardware Version: CP09 V2.0 081028

Software Version: CP09 A10 081126 S3229

Frequency Bands: GSM 850MHz (channel 128:824.20MHz, channel 190:836.59MHz,

channel 251:848.29MHz)

PCS 1900MHz (channel 512:1850.19MHz, channel 661:1880.00MHz,

channel 810:1909.80MHz)

Modulation Mode: GMSK
Antenna type: Build inside

Development Stage: Identical prototype

Battery Model: CP09

Battery specification: 1000mAh 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	Hardware Version	Software Version
1#	CP09 V2.0 081028	CP09_A10_081126_S3229

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) = 3.70V

Low Voltage (LV) = 3.60VHigh Voltage (HV) = 4.20V

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, 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

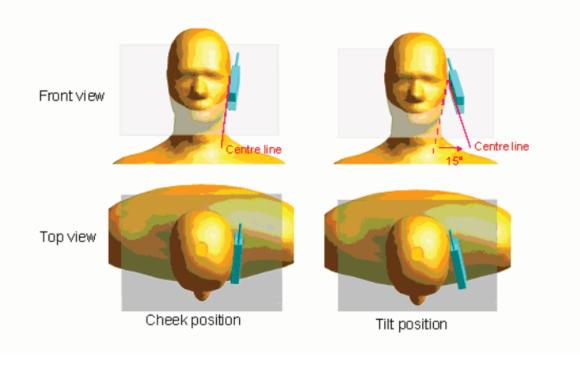
I.1. Normative reference

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.

	T		T			I		1	ı
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									
Probe calibration	E.2.1	7.0	N	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	00
Hemispherical Isotropy	E.2.2	4.0	R	√3	VCp	√Cp	1.63	1.63	
Boundary effect	E.2.3	1.0	R	√3	1	1	0.58	0.58	00
Linearity	E.2.4	5.0	R	√3	1	1	2.89	2.89	00
System detection limits	E.2.5	1.0	R	√3	1	1	0.58	0.58	00
Readout Electronics	E.2.6	0.02	N	1	1	1	0.02	0.02	00
Reponse Time	E.2.7	3.0	R	√3	1	1	1.73	1.73	00
Integration Time	E.2.8	2.0	R	√3	1	1	1.15	1.15	000
RF ambient Conditions	E.6.1	3.0	R	√3	1	1	1.73	1.73	00
Probe positioner Mechanical Tolerance	E.6.2	2.0	R	√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	000
Extrapolation, interpolation and integration Algoritms for Max. SAR Evaluation	E.5.2	5.0	R	√3	1	1	2.89	2.89	8
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	
Output power Variation - SAR drift measurement	6.6.2	4.76	R	√3	1	1	2.75	2.75	-
Phantom and Tissue Parameters									
Phantom Uncertainty (Shape and thickness tolerances)	E.3.1	0.05	R	√3	1	1	0.03	0.03	00
Liquid conductivity - deviation from target value	E.3.2	0.57	R	√3	0.64	0.43	0.21	0.14	00



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	3.66	R	V-2	0.6	0.49	1.27	1.04	
from target value				¥3					- W
Liquid permittivity -	E.3.3	10.00	N	1	0.6	0.49	6.00	4.90	M
measurement uncertainty									
Combined Standard Uncertainty			RSS				11.28	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	835MHz	1900MHz
Target value (1g)	10.8 W/Kg(body)	39.7 W/Kg
250 mW input power	2.709 W/Kg (head)	9.843 W/Kg (head)
	2.701 W/Kg (body)	10.22 W/Kg (body)
Test value (1g)	10.836 W/Kg (head)	39.372 W/Kg (head)
	10.804 W/Kg (body)	40.88 W/Kg (body)

Note: Please refer to check the system performance data, the first 120-131 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 °C ~23.8°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 (Nov 25)	835 MHZ	41. 790001	0. 866612				
Target value	1900 MHZ	40	1.40				
Validation value (Nov 25)	1900 MHZ	39. 481223	1. 395758				

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								
Target value	835 MHz	55. 0	0.95					
Validation value (Nov 25)	835 MHz	54. 872231	1. 054822					
Target value	1900 MHz	53. 3	1. 52					



Validation value	1900 MHz	52. 548876	1. 573978
(Nov 25)			

4.3.6. Simulant liquids

Simulant liquids that are used for testing at frequencies of GSM 850MHz and 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	Frequen	cy Band	Frequen	cy Band
(% by weight)	835]	MHz	1900MHz	
Tissue Type	Head	Body	Head	Body
Water	41.45	52.4	55.36	40.4
Salt(NaCl)	1.45	1.4	0.35	0.5
Sugar	56.0	45.0	30.45	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	13.84	0.0
Acticide SPX	0.0	0.0	0.0	0.0
Dielectric Constant	42.45	56.1	41.00	54.0
Conductivity (S/m)	0.91	0.95	1.38	1.45

4.4. Items used in the Test Results List

Terms in the column "Verdict" for the test results list of the section 4.5:

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	
Deci.	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	



4.5. Test Results List

Summary of Measurement Results (GSM 850MHz Band)

SAR Values (GSM 850MHz Band), Measured against the head.

Temperature: 23.0~23.8°C, humidity: 54~60%.		
Limit of SAD (W//kg)	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	0.873	31.59
Left head, Touch cheek, Channel Middle	0.826	31.73
Left head, Touch cheek, Channel High	0.511	32.19
Left head, Tilt 15 Degree, Channel Low	0.893	31.59
Left head, Tilt 15 Degree, Channel Middle	0.519	31.73
Left head, Tilt 15 Degree, Channel High	0.456	32.19
Right head, Touch cheek, Channel Low	1.108	31.59
Right head, Touch cheek, Channel Middle	1.033	31.73
Right head, Touch cheek, Channel High	0.959	32.19
Right head, Tilt 15 Degree, Channel Low	0.616	31.59
Right head, Tilt 15 Degree, Channel Middle	0.605	31.73
Right head, Tilt 15 Degree, Channel High	0.588	32.19

Summary of Measurement Results (GSM 1900MHz Band)

SAR Values (GSM 1900MHz Band), Measured against the head.

Temperature: 23.0~23.8°C, humidity: 54~60%.		
Limit of SAR (W/kg)	1 g Average	
Limit of SAK (W/kg)		1.6
	Measurement Result (W/kg)	
Test Case	1 g Average	Power level
	(W/kg)	(dBm)
Left head, Touch cheek, Channel Low	1.106	28.19
Left head, Touch cheek, Channel Middle	1.246	27.85
Left head, Touch cheek, Channel High	1.120	27.95
Left head, Tilt 15 Degree, Channel Low	0.817	28.19
Left head, Tilt 15 Degree, Channel Middle	0.984	27.85
Left head, Tilt 15 Degree, Channel High	0.925	27.95
Right head, Touch cheek, Channel Low	1.393	28.19



Right head, Touch cheek, Channel Middle	0.999	27.85
Right head, Touch cheek, Channel High	1.370	27.95
Right head, Tilt 15 Degree, Channel Low	1.182	28.19
Right head, Tilt 15 Degree, Channel Middle	1.338	27.85
Right head, Tilt 15 Degree, Channel High	1.077	27.95

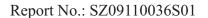
SAR Values (GSM 850MHz Band), Measured against the body.

Temperature: 23.0~23.8°C, humidity: 54~60%.		
Limit of SAR (W/kg)	1 g Average	
Limit of SAK (W/kg)	1.6	
	Measuremen	t Result (W/kg)
Test Case	1 g Average	Power level
	(W/kg)	(dBm)
Side, Low frequency	0.719	31.59
Side, Middle frequency	0.668	31.73
Side, High frequency	0.516	32.19
Side, Low frequency (back)	0.447	31.59
Side, Low frequency (with earphone)	0.693	31.59

SAR Values (GSM 1900MHz Band), Measured against the body.

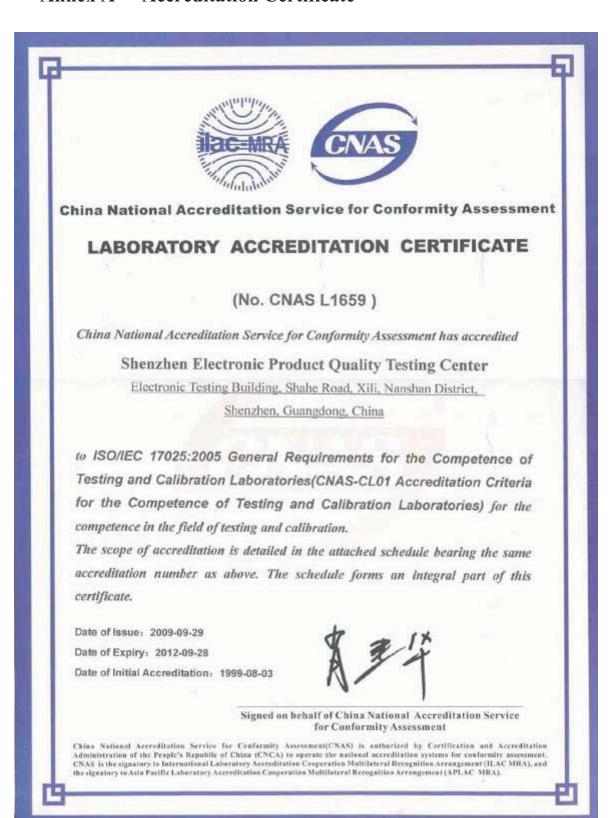
Temperature: 23.0~23.8°C, humidity: 54~60%.			
Limit of SAR (W/kg)	1 g Average		
Limit of SAR (W/kg)	1.6		
	Measurement Result (W/kg)		
Test Case	1 g Average	Power level	
	(W/kg)	(dBm)	
Side, Low frequency	0.354	28.19	
Side, Middle frequency	0.411	27.85	
Side, High frequency	0.306	27.95	
Side, Middle frequency (back)	0.356	27.85	
Side, Middle frequency (with earphone)	0.394	27.85	

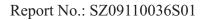
Note: The depth of the body tissue was 15.1cm. The distance between the back of the device and the bottom of the flat phantom is 1.5cm(taking into account of the IEEE 1528 and the place of the antenna)





Annex A Accreditation Certificate

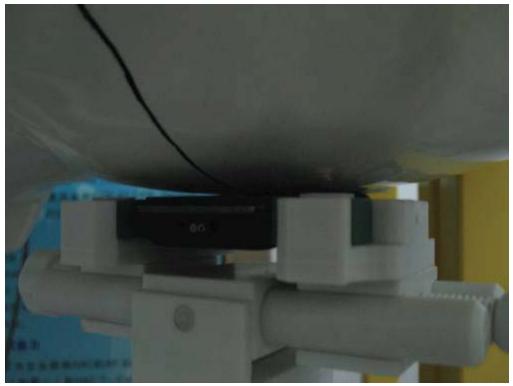






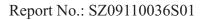
Annex BPhotographs of the EUT

1 EUT Left Head Touch Cheek Position



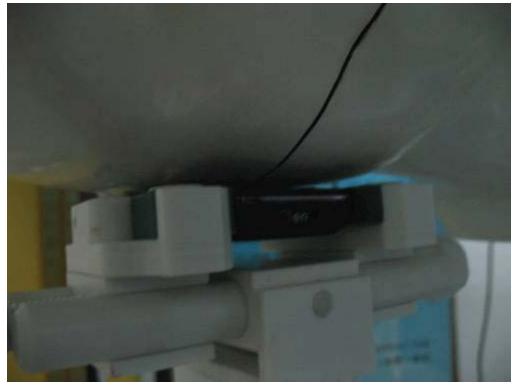
2 EUT Left Head Tilt15 Position





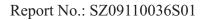


3 EUT Right Head Touch Cheek Position



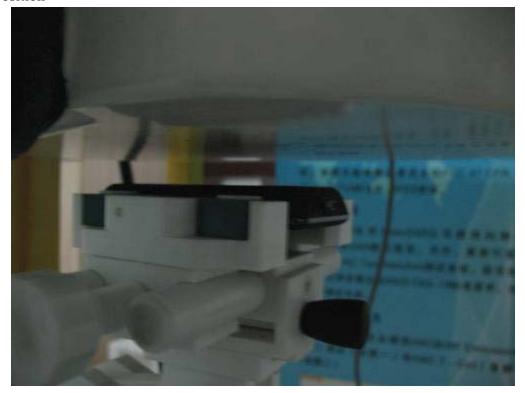
4 EUT Right Head Tilt15 Position





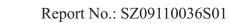


5 Side Position



6 spacer 1.5cm







Annex C Graph Test Results

	BAND	<u>PARAMETERS</u>
TYPE	GSM850	Measurement 1: Right Head with Cheek device position on Low Channel in GSM mode Measurement 2: Right Head with Cheek device position on Middle Channel in GSM mode Measurement 3: Right Head with Cheek device position on High Channel in GSM mode Measurement 4: Right Head with Tilt device position on Low Channel in GSM mode Measurement 5: Right Head with Tilt device position on Middle Channel in GSM mode Measurement 6: Right Head with Tilt device position on High Channel in GSM mode Measurement 7: Left Head with Cheek device position on Low Channel in GSM mode Measurement 8: Left Head with Cheek device position on Middle Channel in GSM mode Measurement 9: Left Head with Cheek device position on High Channel in GSM mode Measurement 10: Left Head with Tilt device position on Low Channel in GSM mode Measurement 11: Left Head with Tilt device position on Middle Channel in GSM mode Measurement 12: Left Head with Tilt device position on High Channel in GSM mode Measurement 13: Validation Plane with Body device position on Low Channel in GSM mode Measurement 14: Validation Plane with Body device position on Middle Channel in GSM mode Measurement 15: Validation Plane with Body device position on High Channel in GSM mode Measurement 16: Validation Plane with Body device position on High Channel in GSM mode Measurement 16: Validation Plane with Body device position on High Channel in GSM mode (back) Measurement 17: Validation Plane with Body device position on High Channel in GSM mode (with earphone)



Measurement 18: Right Head with Cheek device position
on Low Channel in GSM mode
Measurement 19: Right Head with Cheek device position
on Middle Channel in GSM mode
Measurement 20: Right Head with Cheek device position
on High Channel in GSM mode
Measurement 21: Right Head with Tilt device position on
Low Channel in GSM mode
Measurement 22: Right Head with Tilt device position on
Middle Channel in GSM mode
Measurement 23: Right Head with Tilt device position on
High Channel in GSM mode
Measurement 24: Left Head with Cheek device position
on Low Channel in GSM mode
Measurement 25: Left Head with Cheek device position
on Middle Channel in GSM mode
Measurement 26: Left Head with Cheek device position
on High Channel in GSM mode
Measurement 27: Left Head with Tilt device position on
Low Channel in GSM mode
Measurement 28: Left Head with Tilt device position on
Middle Channel in GSM mode
Measurement 29: Left Head with Tilt device position on
High Channel in GSM mode
Measurement 30: Validation Plane with Body device
position on Low Channel in GSM mode
Measurement 31: Validation Plane with Body device
position on Middle Channel in GSM mode
Measurement 32: Validation Plane with Body device
position on High Channel in GSM mode
Measurement 33: Validation Plane with Body device
position on Low Channel in GSM mode (back)
Measurement 34: Validation Plane with Body device
position on Low Channel in GSM mode (with earphone)

GSM

<u>1900</u>



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: 25/11/2009

Measurement duration: 7 minutes 27 seconds

A. Experimental conditions.

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

B. SAR Measurement Results

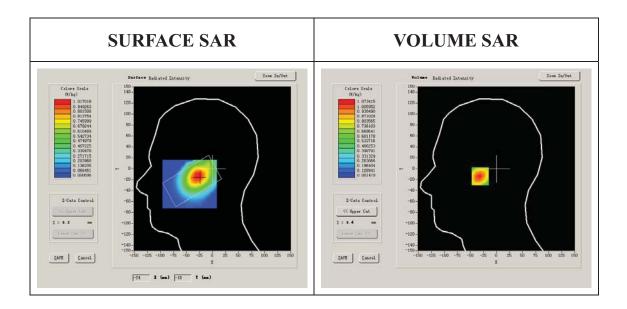
Lower Band SAR (Channel 128):

Frequency (MHz)	824.200012
Relative permittivity (real part)	41.790001
Relative permittivity	18.926250



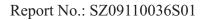


Conductivity (S/m)	0.866612
Variation (%)	-1.220000
Ambient Temperature:	23.5°C
Liquid Temperature:	22.8°C
ConvF:	28.479,25.214,27.196
Crest factor:	1:8



Maximum location: X=-26.00, Y=-14.00

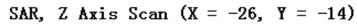
SAR 10g (W/Kg)	0.660083
SAR 1g (W/Kg)	1.018343

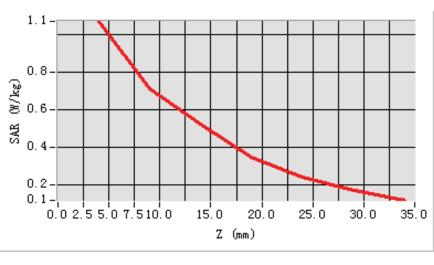


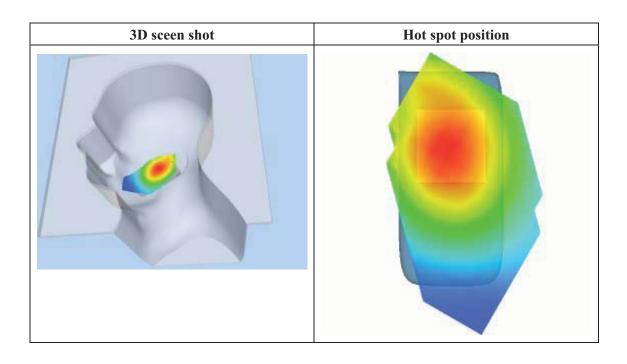


Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	1.0734	0.7156	0.5252	0.3488	0.2405	0.1697
(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: 25/11/2009

Measurement duration: 7 minutes 33 seconds

A. Experimental conditions.

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

B. SAR Measurement Results

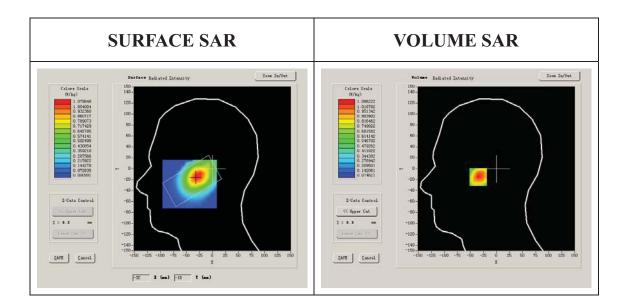
Middle Band SAR (Channel 190):

Frequency (MHz)	836.599976		
Relative permittivity (real part)	40.669998		
Relative permittivity	19.120001		





Conductivity (S/m)	0.888655		
Variation (%)	-0.620000		
Ambient Temperature:	23.5°C		
Liquid Temperature:	22.8°C		
ConvF:	28.479,25.214,27.196		
Crest factor:	1:8		



Maximum location: X=-31.00, Y=-15.00

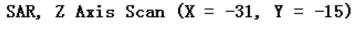
SAR 10g (W/Kg)	0.669878
SAR 1g (W/Kg)	1.032558

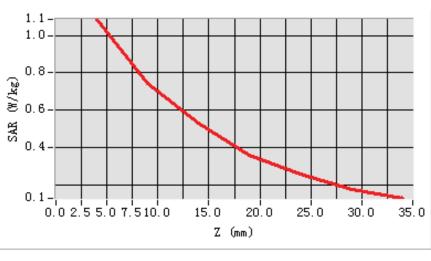


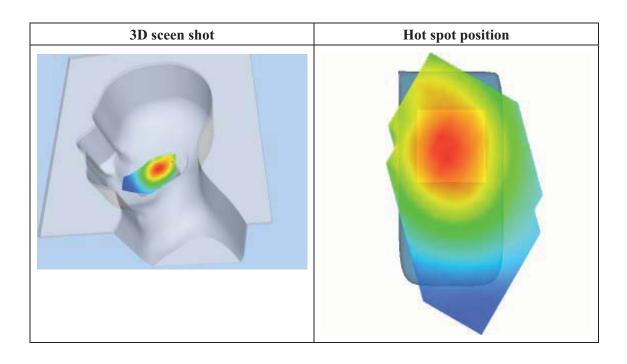


Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	1.0862	0.7429	0.5276	0.3559	0.2559	0.1778
(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: 25/11/2009

Measurement duration: 7 minutes 34 seconds

A. Experimental conditions.

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

B. SAR Measurement Results

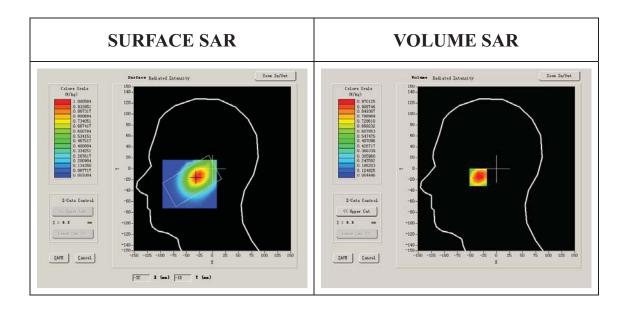
Higher Band SAR (Channel 251):

Frequency (MHz)	848.799988
Relative permittivity (real part)	41.675999
Relative permittivity	18.967199



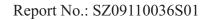


Conductivity (S/m)	0.894409		
Variation (%)	-1.380000		
Ambient Temperature:	23.5°C		
Liquid Temperature:	22.8°C		
ConvF:	28.479,25.214,27.196		
Crest factor:	1:8		



Maximum location: X=-31.00, Y=-16.00

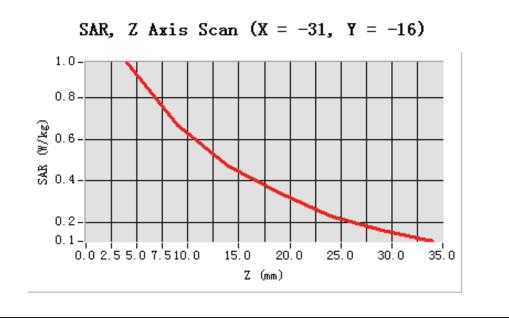
SAR 10g (W/Kg)	0.616834		
SAR 1g (W/Kg)	0.959368		

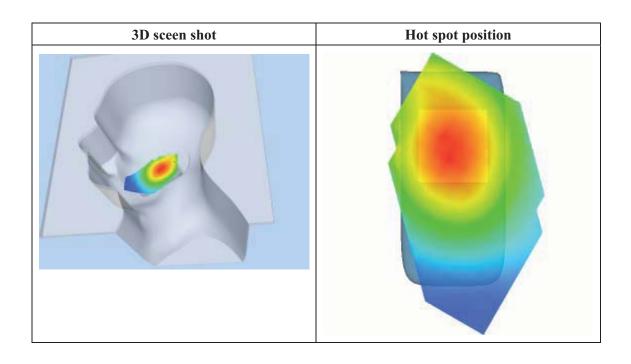




Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.9685	0.6667	0.4712	0.3452	0.2336	0.1651
(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: 25/11/2009

Measurement duration: 7 minutes 26 seconds

A. Experimental conditions.

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

B. SAR Measurement Results

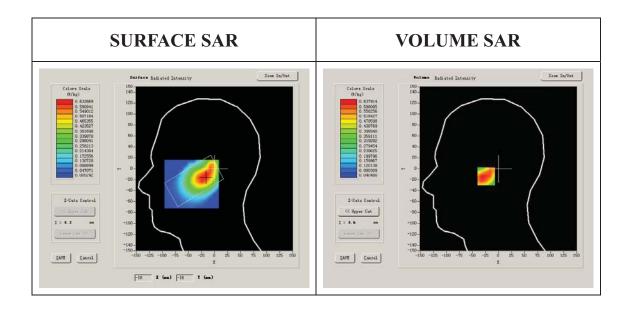
Lower Band SAR (Channel 128):

Frequency (MHz)	824.200012
Relative permittivity (real part)	41.790001
Relative permittivity	18.926250



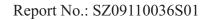


Conductivity (S/m)	0.866612
Variation (%)	-0.700000
Ambient Temperature:	23.5°C
Liquid Temperature:	22.8°C
ConvF:	28.479,25.214,27.196
Crest factor:	1:8



Maximum location: X=-17.00, Y=-14.00

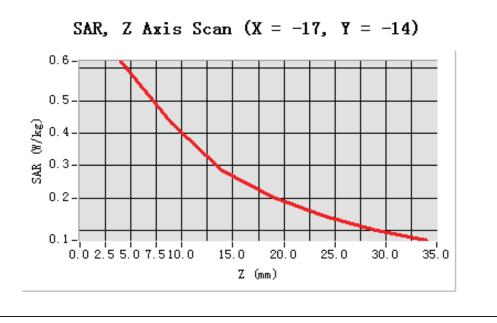
SAR 10g (W/Kg)	0.402700	
SAR 1g (W/Kg)	0.616134	

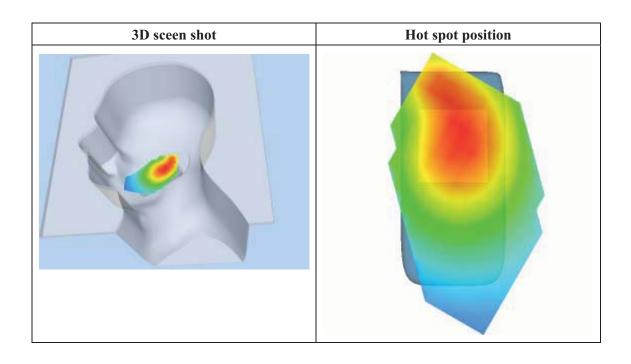




Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.6215	0.4306	0.2861	0.2038	0.1444	0.1001
(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: 25/11/2009

Measurement duration: 7 minutes 25 seconds

A. Experimental conditions.

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

B. SAR Measurement Results

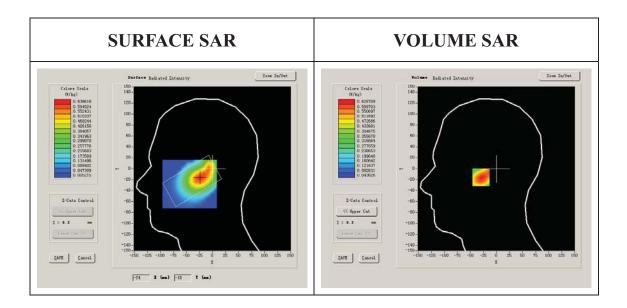
Middle Band SAR (Channel 190):

Frequency (MHz)	836.599976
Relative permittivity (real part)	40.669998
Relative permittivity	19.120001



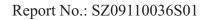


Conductivity (S/m)	0.888655
Variation (%)	0.420000
Ambient Temperature:	23.5°C
Liquid Temperature:	22.8°C
ConvF: 28.479,25.214,27.196	
Crest factor:	1:8



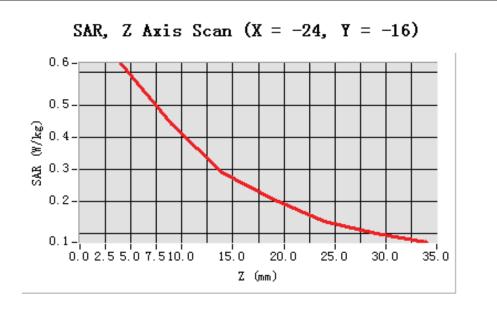
Maximum location: X=-24.00, Y=-16.00

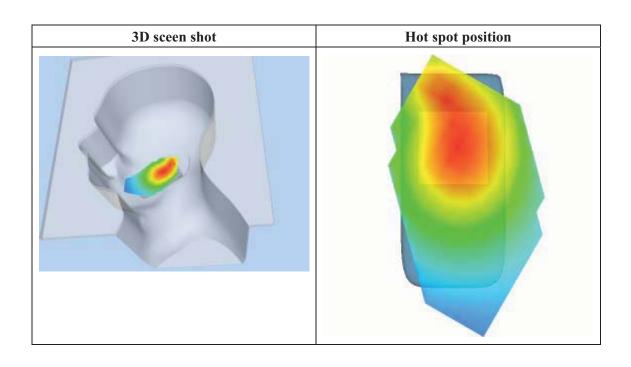
SAR 10g (W/Kg)	0.397086
SAR 1g (W/Kg)	0.604547





Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.6287	0.4398	0.2897	0.2084	0.1397	0.1010
(W/Kg)							







MEASUREMENT 6

Type: Phone measurement (Complete)

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

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

Date of measurement: 25/11/2009

Measurement duration: 7 minutes 29 seconds

A. Experimental conditions.

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

B. SAR Measurement Results

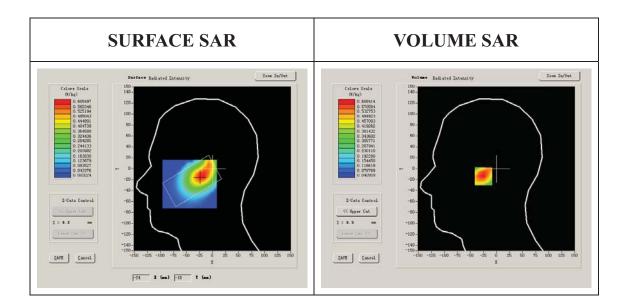
Higher Band SAR (Channel 251):

Frequency (MHz)	848.799988
Relative permittivity (real part)	41.675999
Relative permittivity	18.967199





Conductivity (S/m)	0.894409
Variation (%)	0.420000
Ambient Temperature:	23.5°C
Liquid Temperature:	22.8°C
ConvF: 28.479,25.214,27.196	
Crest factor:	1:8



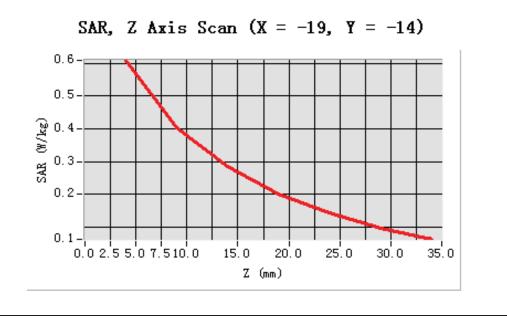
Maximum location: X=-19.00, Y=-14.00

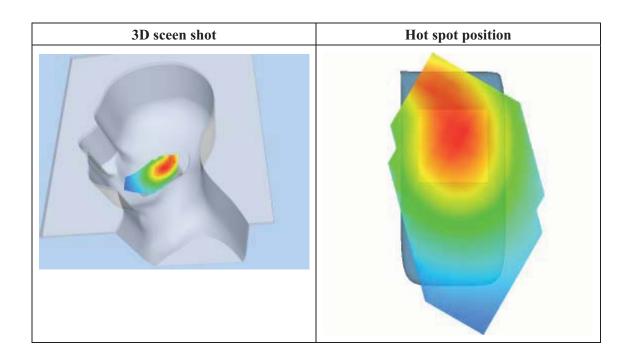
SAR 10g (W/Kg)	0.378131
SAR 1g (W/Kg)	0.588065





Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.6084	0.4035	0.2872	0.2030	0.1433	0.0973
(W/Kg)							







MEASUREMENT 7

Type: Phone measurement (Complete)

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

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

Date of measurement: 25/11/2009

Measurement duration: 7 minutes 24 seconds

A. Experimental conditions.

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

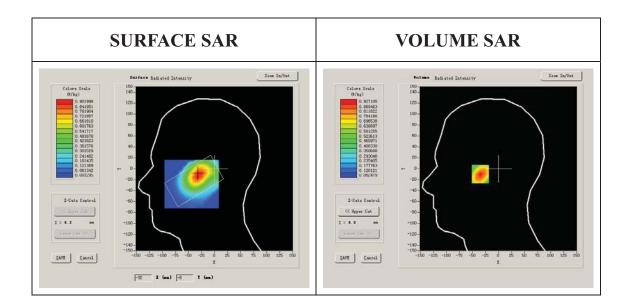
B. SAR Measurement Results

Frequency (MHz)	824.200012
Relative permittivity (real part)	41.790001
Relative permittivity	18.926250



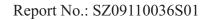


Conductivity (S/m)	0.866612
Variation (%)	-1.570000
Ambient Temperature:	23.5°C
Liquid Temperature:	22.8°C
ConvF: 28.479,25.214,27.196	
Crest factor:	1:8



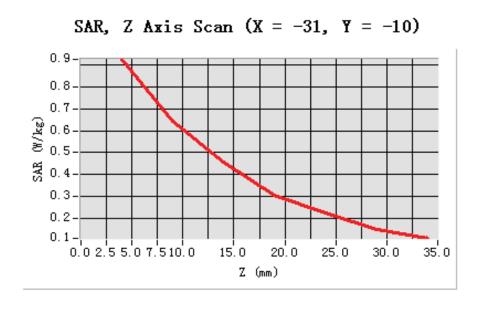
Maximum location: X=-31.00, Y=-10.00

SAR 10g (W/Kg)	0.568251
SAR 1g (W/Kg)	0.873292





Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.9271	0.6415	0.4549	0.3074	0.2239	0.1506
(W/Kg)							







MEASUREMENT 8

Type: Phone measurement (Complete)

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

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

Date of measurement: 25/11/2009

Measurement duration: 7 minutes 25 seconds

A. Experimental conditions.

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

B. SAR Measurement Results

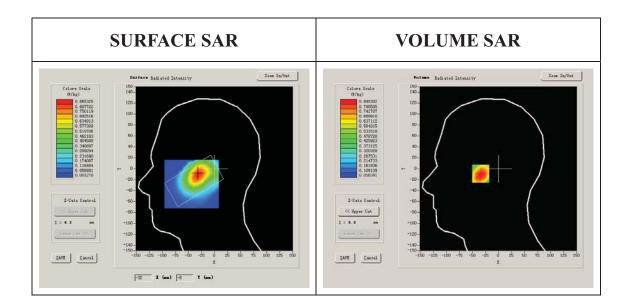
Higher Band SAR (Channel 251):

Frequency (MHz)	848.799988		
Relative permittivity (real part)	41.675999		
Relative permittivity	18.967199		



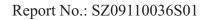


Conductivity (S/m)	0.894409		
Variation (%)	-1.240000		
Ambient Temperature:	23.5°C		
Liquid Temperature:	22.8°C		
ConvF:	28.479,25.214,27.196		
Crest factor:	1:8		



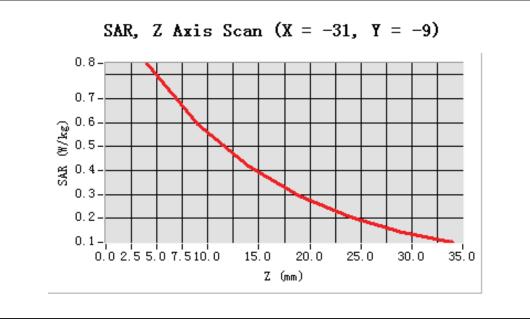
Maximum location: X=-31.00, Y=-9.00

SAR 10g (W/Kg)	0.541235		
SAR 1g (W/Kg)	0.825757		





Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.8483	0.5953	0.4175	0.2958	0.2086	0.1419
(W/Kg)							







MEASUREMENT 9

Type: Phone measurement (Complete)

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

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

Date of measurement: 25/11/2009

Measurement duration: 7 minutes 29 seconds

A. Experimental conditions.

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

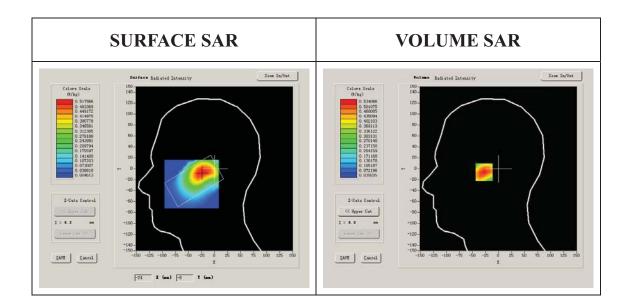
B. SAR Measurement Results

Frequency (MHz)	824.200012	
Relative permittivity (real part)	41.790001	
Relative permittivity	18.926250	



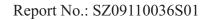


Conductivity (S/m)	0.866612		
Variation (%)	0.460000		
Ambient Temperature:	23.5°C		
Liquid Temperature:	22.8°C		
ConvF:	28.479,25.214,27.196		
Crest factor:	1:8		



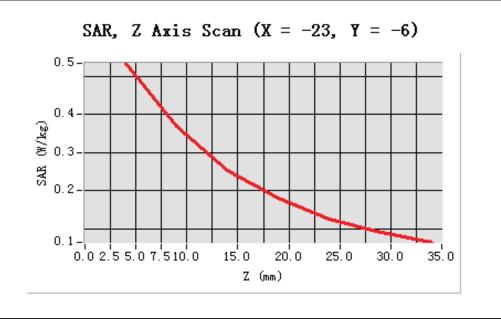
Maximum location: X=-23.00, Y=-6.00

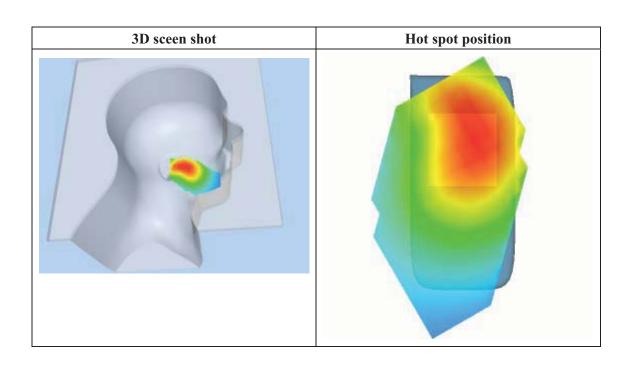
SAR 10g (W/Kg)	0.336950		
SAR 1g (W/Kg)	0.511004		





Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.5341	0.3691	0.2523	0.1797	0.1263	0.0903
(W/Kg)							







MEASUREMENT 10

Type: Phone measurement (Complete)

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

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

Date of measurement: 25/11/2009

Measurement duration: 7 minutes 29 seconds

A. Experimental conditions.

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

B. SAR Measurement Results

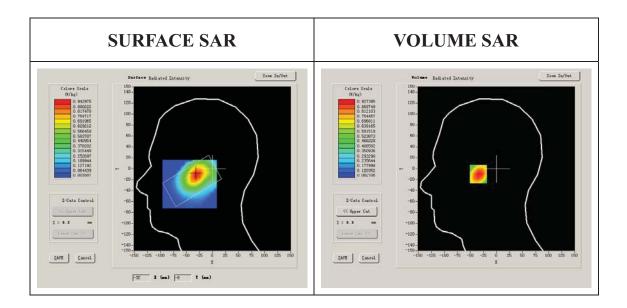
Middle Band SAR (Channel 190):

Frequency (MHz)	836.599976
Relative permittivity (real part)	40.669998
Relative permittivity	19.120001





Conductivity (S/m)	0.888655
Variation (%)	-1.490000
Ambient Temperature:	23.5°C
Liquid Temperature:	22.8°C
ConvF:	28.479,25.214,27.196
Crest factor:	1:8



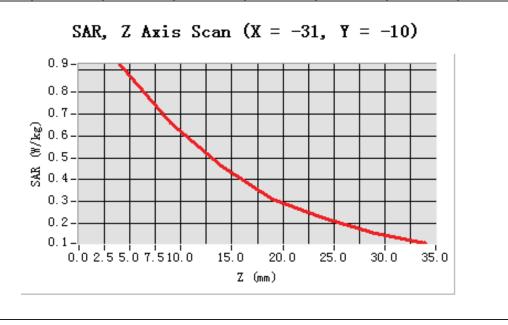
Maximum location: X=-31.00, Y=-10.00

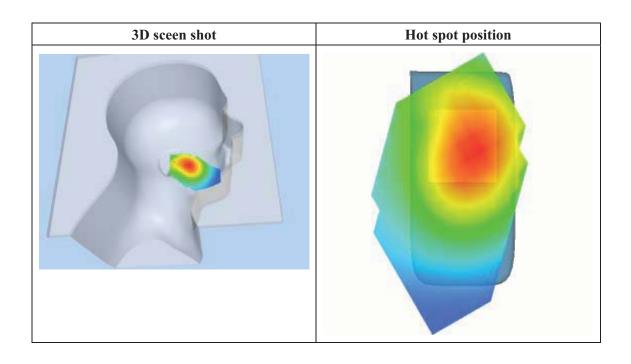
SAR 10g (W/Kg)	0.583539
SAR 1g (W/Kg)	0.893404





Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.9274	0.6590	0.4609	0.3127	0.2234	0.1560
(W/Kg)							







MEASUREMENT 11

Type: Phone measurement (Complete)

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

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

Date of measurement: 25/11/2009

Measurement duration: 7 minutes 30 seconds

A. Experimental conditions.

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

B. SAR Measurement Results

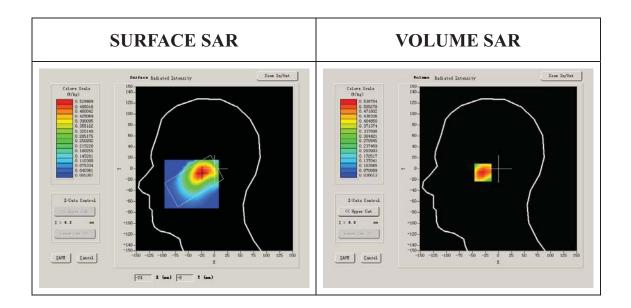
Middle Band SAR (Channel 190):

Frequency (MHz)	836.599976
Relative permittivity (real part)	40.669998
Relative permittivity	19.120001



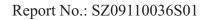


Conductivity (S/m)	0.888655
Variation (%)	0.110000
Ambient Temperature:	23.5°C
Liquid Temperature:	22.8°C
ConvF:	28.479,25.214,27.196
Crest factor:	1:8



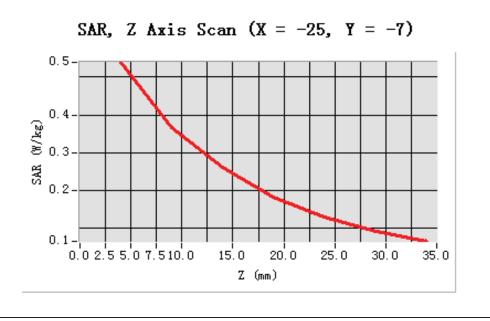
Maximum location: X=-25.00, Y=-7.00

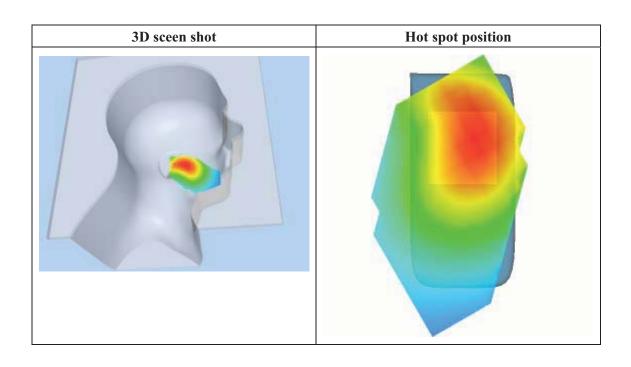
SAR 10g (W/Kg)	0.340133
SAR 1g (W/Kg)	0.519264





Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.5388	0.3667	0.2619	0.1836	0.1307	0.0922
(W/Kg)							







MEASUREMENT 12

Type: Phone measurement (Complete)

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

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

Date of measurement: 25/11/2009

Measurement duration: 7 minutes 27 seconds

A. Experimental conditions.

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

B. SAR Measurement Results

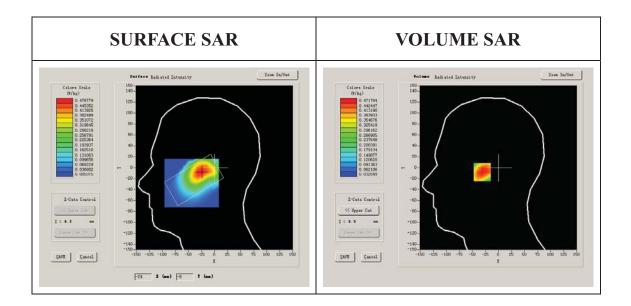
Higher Band SAR (Channel 251):

Frequency (MHz)	848.799988
Relative permittivity (real part)	41.675999
Relative permittivity	18.967199



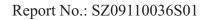


Conductivity (S/m)	0.894409
Variation (%)	-0.230000
Ambient Temperature:	23.5°C
Liquid Temperature:	22.8°C
ConvF:	28.479,25.214,27.196
Crest factor:	1:8



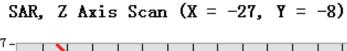
Maximum location: X=-27.00, Y=-8.00

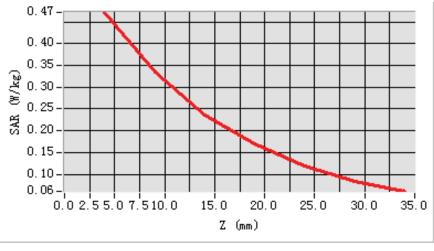
SAR 10g (W/Kg)	0.305749		
SAR 1g (W/Kg)	0.456005		

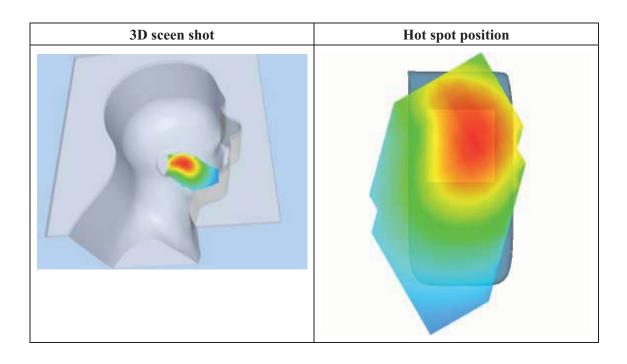




Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.4717	0.3340	0.2360	0.1694	0.1187	0.0847
(W/Kg)							









MEASUREMENT 13

Type: Phone measurement (Complete)

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

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

Date of measurement: 25/11/2009

Measurement duration: 9 minutes 6 seconds

A. Experimental conditions.

Phantom File	surf_sam_plan.txt
Phantom	Validation plane
Device Position	Body
Band	GSM850
Channels	Low
Signal	TDMA

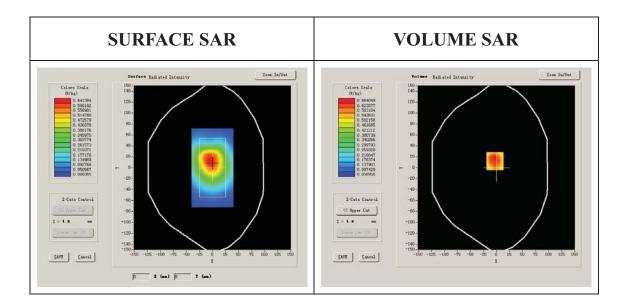
B. SAR Measurement Results

Frequency (MHz)	824.200012		
Relative permittivity (real part)	54.116001		
Relative permittivity	21.284550		



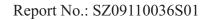


Conductivity (S/m)	0.974596		
Variation (%)	(%) -1.480000		
Ambient Temperature:	23.5°C		
Liquid Temperature:	22.8°C		
ConvF:	28.479,25.214,27.196		
Crest factor:	1:8		



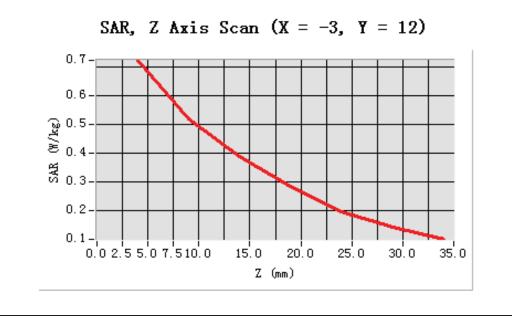
Maximum location: X=-3.00, Y=12.00

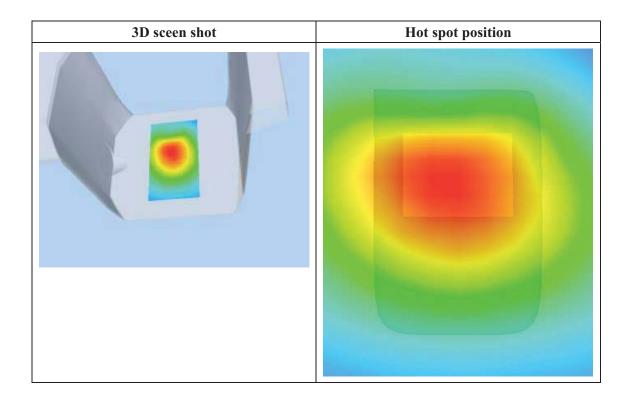
SAR 10g (W/Kg)	0.486227
SAR 1g (W/Kg)	0.718601





Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.7228	0.5176	0.3892	0.2832	0.1966	0.1403
(W/Kg)							







MEASUREMENT 14

Type: Phone measurement (Complete)

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

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

Date of measurement: 25/11/2009

Measurement duration: 9 minutes 9 seconds

A. Experimental conditions.

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

B. SAR Measurement Results

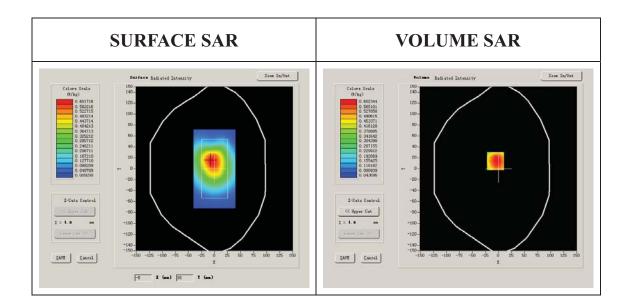
Middle Band SAR (Channel 190):

Frequency (MHz)	836.599976
Relative permittivity (real part)	55.709999
Relative permittivity	21.709999



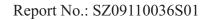


Conductivity (S/m)	1.009033		
Variation (%)	0.160000		
Ambient Temperature:	23.5°C		
Liquid Temperature:	22.8°C		
ConvF:	28.479,25.214,27.196		
Crest factor:	1:8		



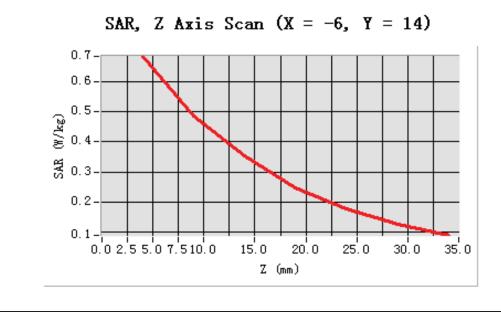
Maximum location: X=-6.00, Y=14.00

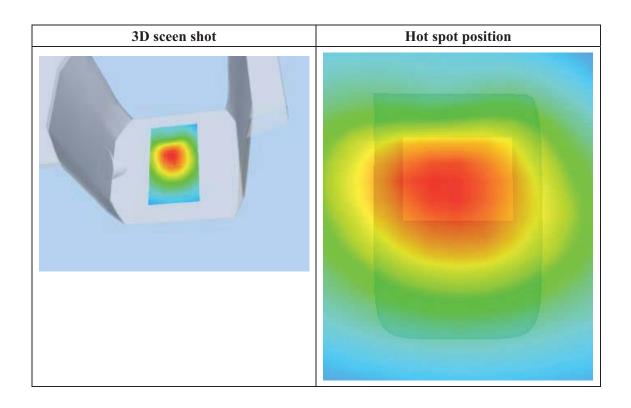
SAR 10g (W/Kg)	0.451402
SAR 1g (W/Kg)	0.668074





Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.6826	0.4866	0.3528	0.2487	0.1764	0.1247
(W/Kg)							







MEASUREMENT 15

Type: Phone measurement (Complete)

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

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

Date of measurement: 25/11/2009

Measurement duration: 9 minutes 16 seconds

A. Experimental conditions.

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

B. SAR Measurement Results

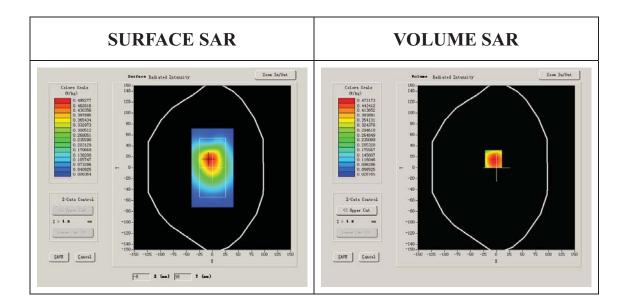
Higher Band SAR (Channel 251):

Frequency (MHz)	848.799988
Relative permittivity (real part)	54.014999
Relative permittivity	21.332850



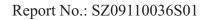


Conductivity (S/m)	1.005962
Variation (%)	-1.420000
Ambient Temperature:	23.5°C
Liquid Temperature:	22.8°C
ConvF:	28.479,25.214,27.196
Crest factor:	1:8



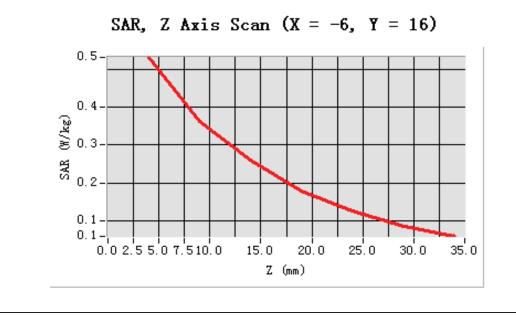
Maximum location: X=-6.00, Y=16.00

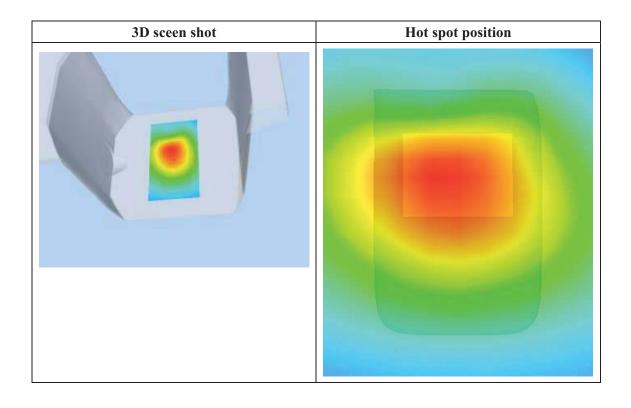
SAR 10g (W/Kg)	0.345574
SAR 1g (W/Kg)	0.516119





Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.5322	0.3624	0.2604	0.1788	0.1248	0.0848
(W/Kg)							







MEASUREMENT 16

Type: Phone measurement (Complete)

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

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

Date of measurement: 18/11/2009

Measurement duration: 9 minutes 8 seconds

A. Experimental conditions.

Phantom File	surf_sam_plan.txt	
Phantom	Validation plane	
Device Position	Body	
Band	GSM850	
Channels	Low	
Signal	TDMA	

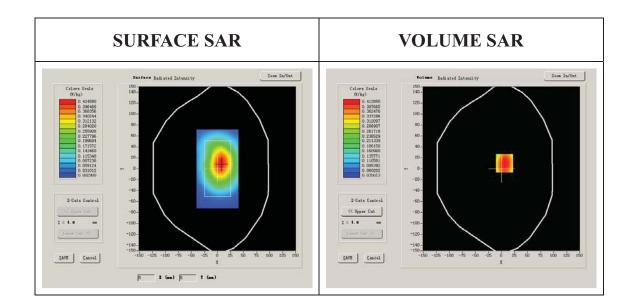
B. SAR Measurement Results

Frequency (MHz)	824.200012
Relative permittivity (real part)	54.116001
Relative permittivity	21.284550





Conductivity (S/m)	0.974596
Variation (%)	-0.080000
Ambient Temperature:	23.5°C
Liquid Temperature:	22.8°C
ConvF:	28.479,25.214,27.196
Crest factor:	1:8



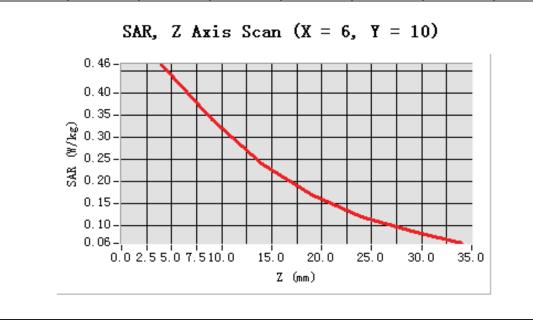
Maximum location: X=6.00, Y=10.00

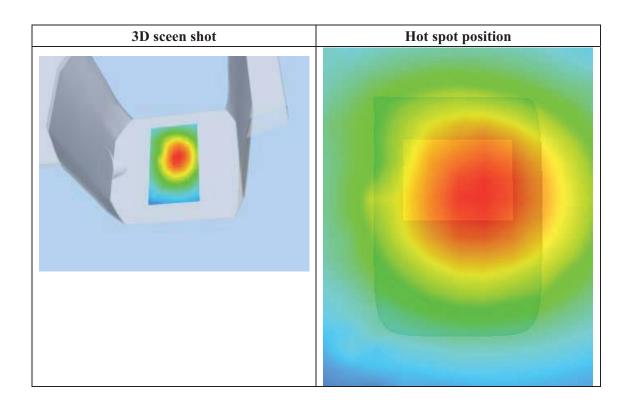
SAR 10g (W/Kg)	0.309273
SAR 1g (W/Kg)	0.446697





Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.4643	0.3404	0.2398	0.1696	0.1220	0.0890
(W/Kg)							







MEASUREMENT 17

Type: Phone measurement (Complete)

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

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

Date of measurement: 18/11/2009

Measurement duration: 9 minutes 8 seconds

A. Experimental conditions.

Phantom File	surf_sam_plan.txt	
Phantom	Validation plane	
Device Position	Body	
Band	GSM850	
Channels	Low	
Signal	TDMA	

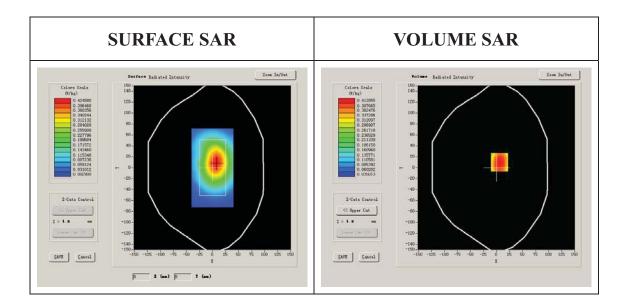
B. SAR Measurement Results

Frequency (MHz)	824.200012
Relative permittivity (real part)	54.116001
Relative permittivity	21.284550





Conductivity (S/m)	0.974596
Variation (%)	-0.080000
Ambient Temperature:	23.5°C
Liquid Temperature:	22.8°C
ConvF:	28.479,25.214,27.196
Crest factor:	1:8



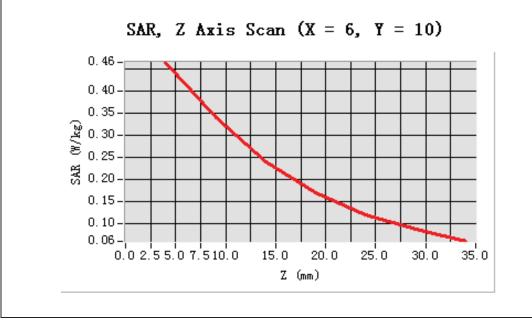
Maximum location: X=6.00, Y=10.00

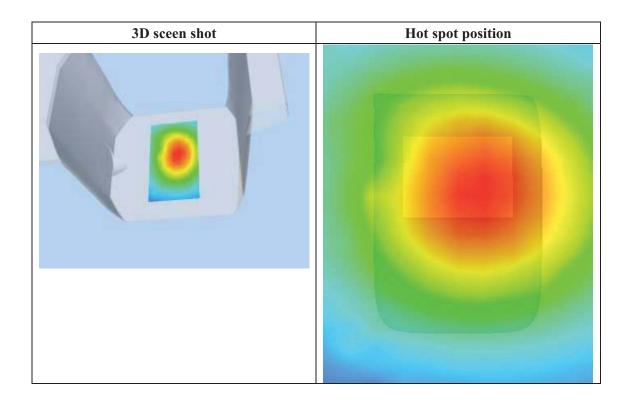
SAR 10g (W/Kg)	0.403554
SAR 1g (W/Kg)	0.693514





Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.4643	0.3404	0.2398	0.1696	0.1220	0.0890
(W/Kg)							







MEASUREMENT 18

Type: Phone measurement (Complete)

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

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

Date of measurement: 25/11/2009

Measurement duration: 7 minutes 27 seconds

A. Experimental conditions.

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

B. SAR Measurement Results

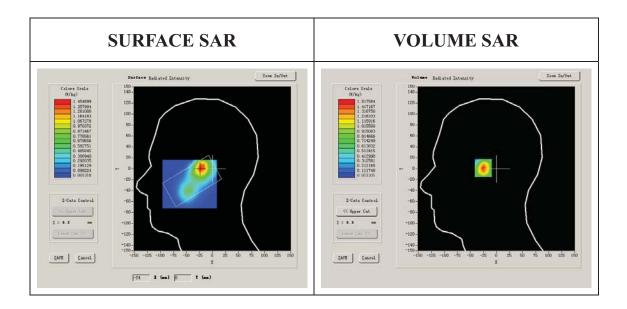
Lower Band SAR (Channel 512):

Frequency (MHz)	1850.199951
Relative permittivity (real part)	39.993999
Relative permittivity	12.991650





Conductivity (S/m)	1.335397
Variation (%)	-0.260000
Ambient Temperature:	22.3°C
Liquid Temperature:	22.1°C
ConvF:	40.136,34.843,38.721
Crest factor:	1:8



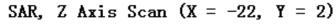
Maximum location: X=-22.00, Y=2.00

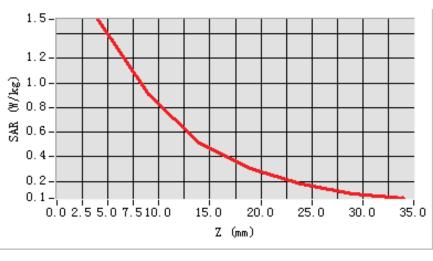
SAR 10g (W/Kg)	0.744544
SAR 1g (W/Kg)	1.393182

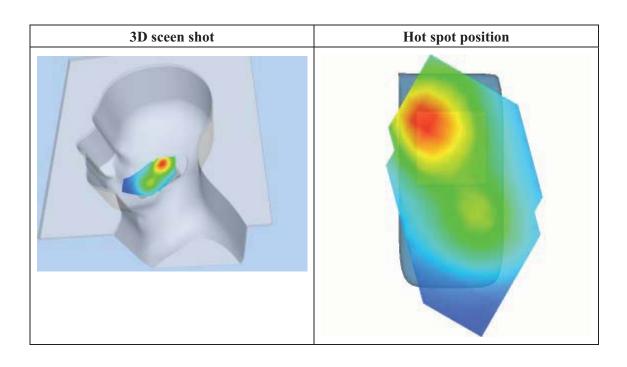




Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	1.5176	0.9084	0.5102	0.3049	0.1769	0.0989
(W/Kg)							









MEASUREMENT 19

Type: Phone measurement (Complete)

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

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

Date of measurement: 25/11/2009

Measurement duration: 7 minutes 24 seconds

A. Experimental conditions.

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

B. SAR Measurement Results

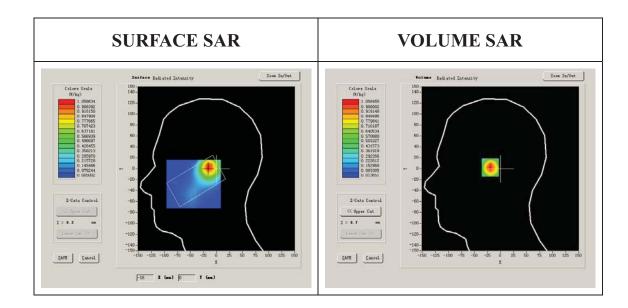
Lower Band SAR (Channel 512):

Frequency (MHz)	1850.199951
Relative permittivity (real part)	39.993999
Relative permittivity	12.991650



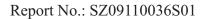


Conductivity (S/m)	1.335397
Variation (%)	-1.390000
Ambient Temperature:	22.3°C
Liquid Temperature:	22.1°C
ConvF:	40.136,34.843,38.721
Crest factor:	1:8



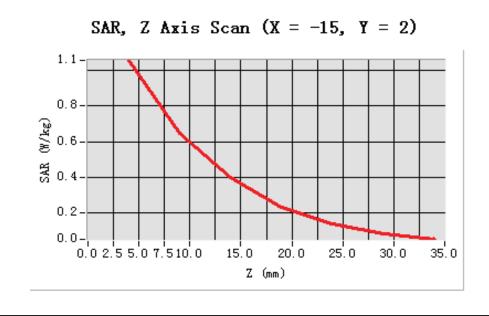
Maximum location: X=-15.00, Y=2.00

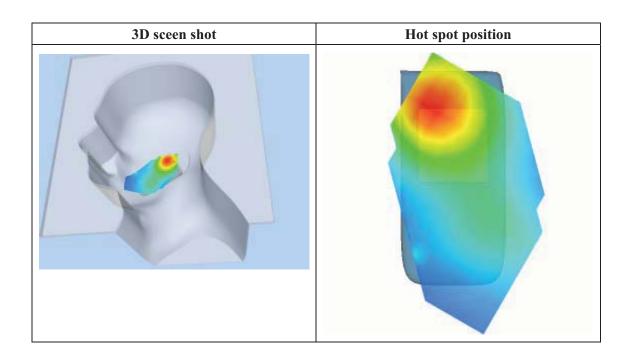
SAR 10g (W/Kg)	0.552056
SAR 1g (W/Kg)	0.998768





Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	1.0585	0.6487	0.3949	0.2292	0.1364	0.0794
(W/Kg)							







MEASUREMENT 20

Type: Phone measurement (Complete)

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

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

Date of measurement: 25/11/2009

Measurement duration: 7 minutes 24 seconds

A. Experimental conditions.

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

B. SAR Measurement Results

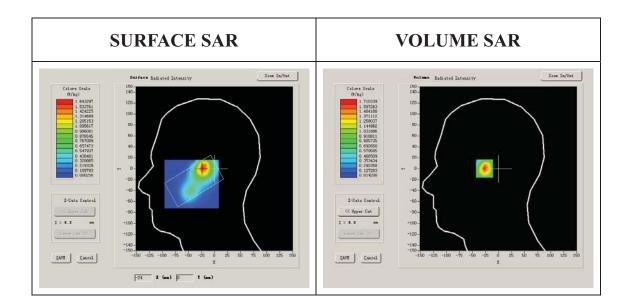
Middle Band SAR (Channel 661):

Frequency (MHz)	1880.000000	
Relative permittivity (real part)	38.509998	
Relative permittivity	13.750000	



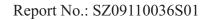


Conductivity (S/m)	1.436111		
Variation (%)	-0.040000		
Ambient Temperature:	22.3°C		
Liquid Temperature:	22.1°C		
ConvF:	40.136,34.843,38.721		
Crest factor:	1:8		



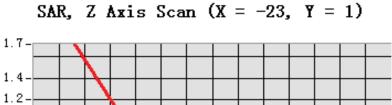
Maximum location: X=-23.00, Y=1.00

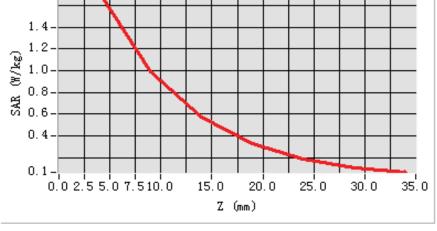
SAR 10g (W/Kg)	0.834994		
SAR 1g (W/Kg)	1.363919		

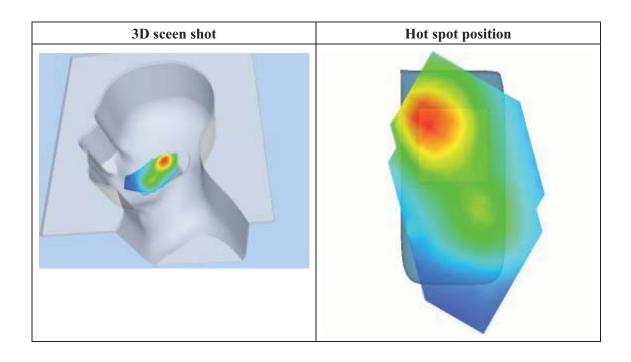




Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	1.7103	0.9915	0.5700	0.3305	0.1911	0.1083
(W/Kg)							









MEASUREMENT 21

Type: Phone measurement (Complete)

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

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

Date of measurement: 25/11/2009

Measurement duration: 7 minutes 20 seconds

A. Experimental conditions.

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

B. SAR Measurement Results

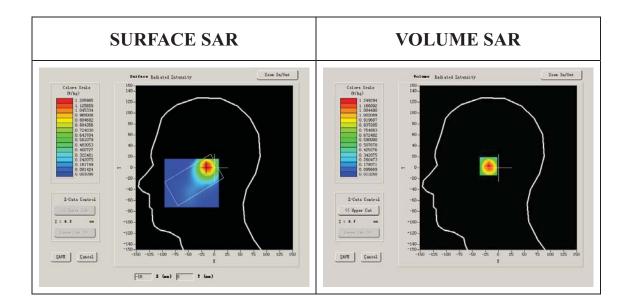
Middle Band SAR (Channel 661):

Frequency (MHz)	1880.000000		
Relative permittivity (real part)	38.509998		
Relative permittivity	13.750000		



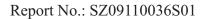


Conductivity (S/m)	1.436111		
Variation (%)	0.440000		
Ambient Temperature:	22.3°C		
Liquid Temperature:	22.1°C		
ConvF:	40.136,34.843,38.721		
Crest factor:	1:8		



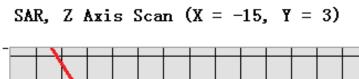
Maximum location: X=-15.00, Y=3.00

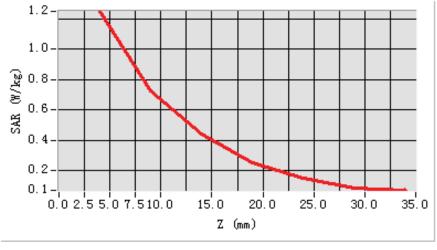
SAR 10g (W/Kg)	0.658085		
SAR 1g (W/Kg)	1.181577		

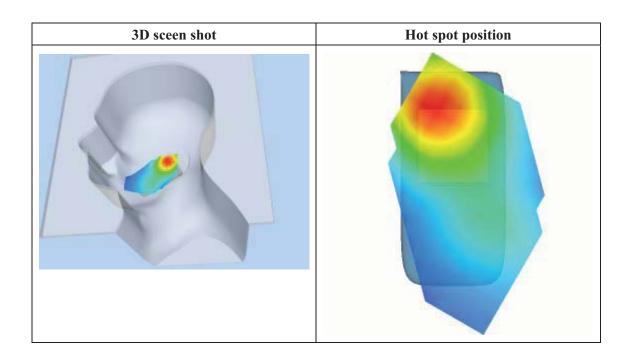




Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	1.2493	0.7277	0.4415	0.2515	0.1520	0.0878
(W/Kg)							









MEASUREMENT 22

Type: Phone measurement (Complete)

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

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

Date of measurement: 25/11/2009

Measurement duration: 7 minutes 28 seconds

A. Experimental conditions.

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

B. SAR Measurement Results

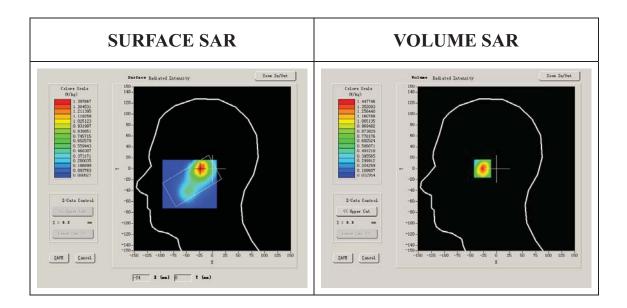
Higher Band SAR (Channel 810):

Frequency (MHz)	1909.800049
Relative permittivity (real part)	39.929001
Relative permittivity	13.156500





Conductivity (S/m)	1.395905
Variation (%)	2.310000
Ambient Temperature:	22.3°C
Liquid Temperature:	22.1°C
ConvF:	40.136,34.843,38.721
Crest factor:	1:8



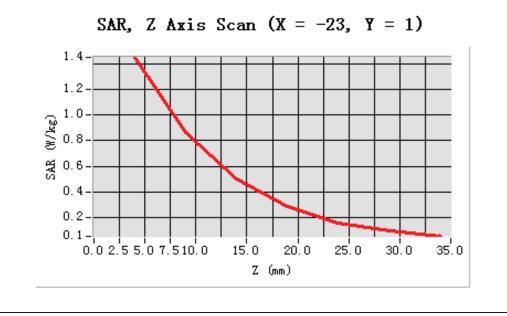
Maximum location: X=-23.00, Y=1.00

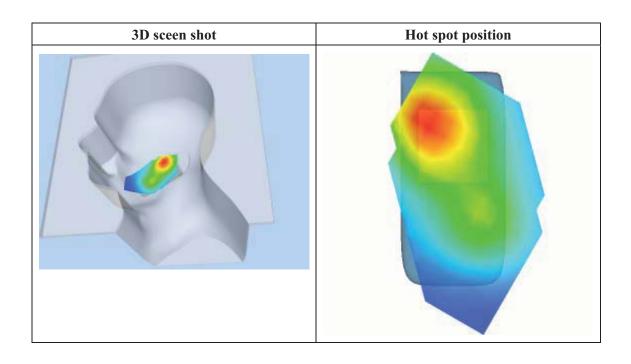
SAR 10g (W/Kg)	0.726118
SAR 1g (W/Kg)	1.337748





Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	1.4477	0.8621	0.5026	0.2826	0.1606	0.0937
(W/Kg)							







MEASUREMENT 23

Type: Phone measurement (Complete)

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

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

Date of measurement: 25/11/2009

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	High
Signal	TDMA

B. SAR Measurement Results

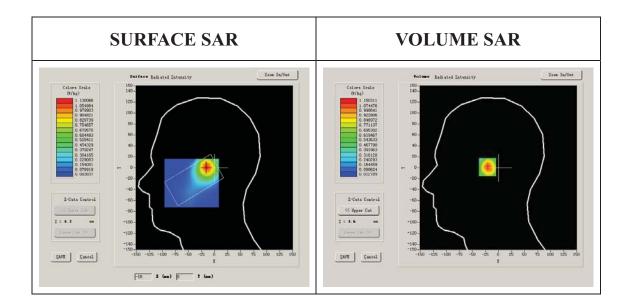
Higher Band SAR (Channel 810):

Frequency (MHz)	1909.800049
Relative permittivity (real part)	39.929001
Relative permittivity	13.156500



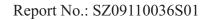


Conductivity (S/m)	1.395905
Variation (%)	-1.410000
Ambient Temperature:	22.3°C
Liquid Temperature:	22.1°C
ConvF:	40.136,34.843,38.721
Crest factor:	1:8



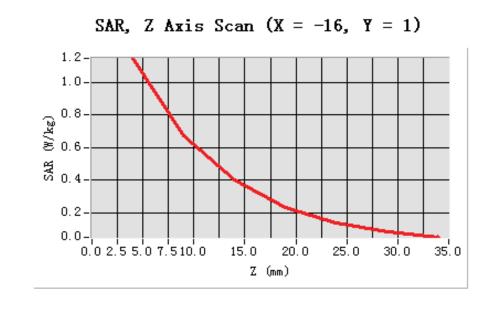
Maximum location: X=-16.00, Y=1.00

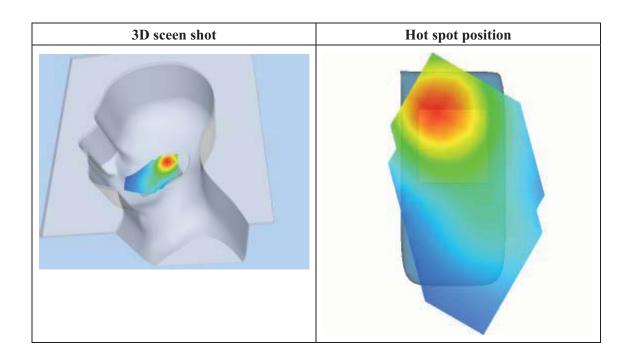
SAR 10g (W/Kg)	0.597456
SAR 1g (W/Kg)	1.076919





Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	1.1503	0.6709	0.3998	0.2323	0.1383	0.0799
(W/Kg)							







MEASUREMENT 24

Type: Phone measurement (Complete)

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

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

Date of measurement: 25/11/2009

Measurement duration: 7 minutes 25 seconds

A. Experimental conditions.

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

B. SAR Measurement Results

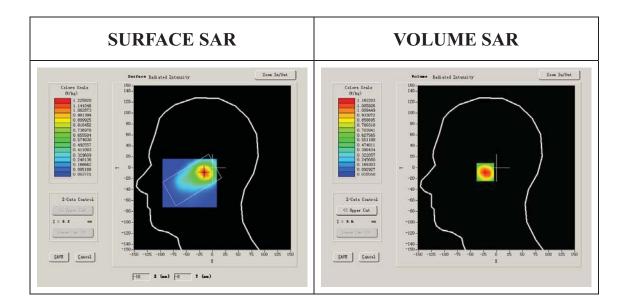
Lower Band SAR (Channel 512):

Frequency (MHz)	1850.199951
Relative permittivity (real part)	39.993999
Relative permittivity	12.991650



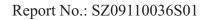


Conductivity (S/m)	1.335397
Variation (%)	-1.600000
Ambient Temperature:	22.3°C
Liquid Temperature:	22.1°C
ConvF:	40.136,34.843,38.721
Crest factor:	1:8



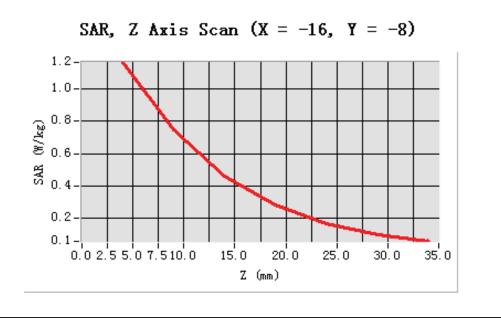
Maximum location: X=-16.00, Y=-8.00

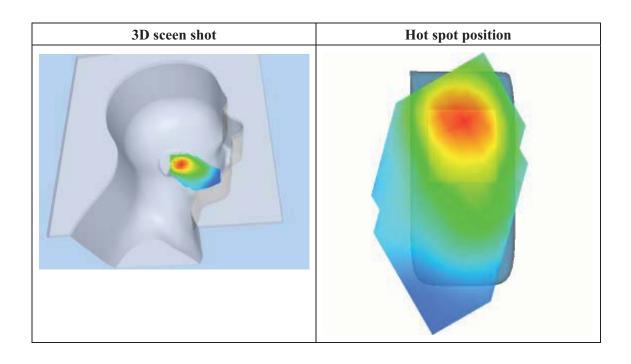
SAR 10g (W/Kg)	0.645595
SAR 1g (W/Kg)	1.106153





Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	1.1622	0.7470	0.4644	0.2863	0.1681	0.1011
(W/Kg)							







MEASUREMENT 25

Type: Phone measurement (Complete)

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

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

Date of measurement: 25/11/2009

Measurement duration: 7 minutes 25 seconds

A. Experimental conditions.

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

B. SAR Measurement Results

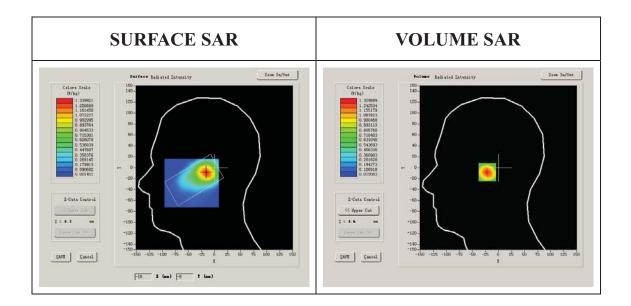
Middle Band SAR (Channel 661):

Frequency (MHz)	1880.000000		
Relative permittivity (real part)	38.509998		
Relative permittivity	13.750000		



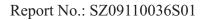


Conductivity (S/m)	1.436111		
Variation (%)	-1.360000		
Ambient Temperature:	22.3°C		
Liquid Temperature:	22.1°C		
ConvF:	40.136,34.843,38.721		
Crest factor:	1:8		



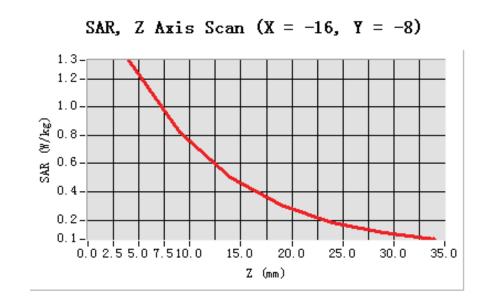
Maximum location: X=-16.00, Y=-8.00

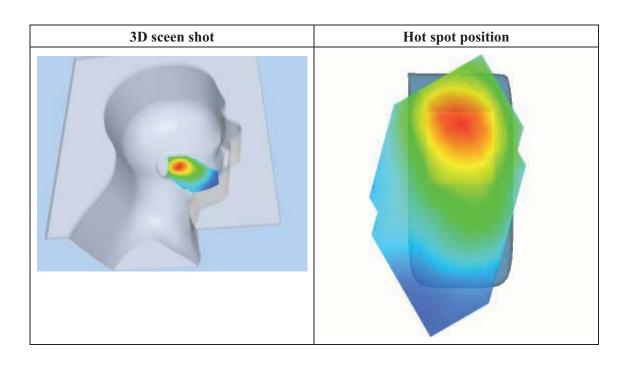
SAR 10g (W/Kg)	0.718427		
SAR 1g (W/Kg)	1.244747		





Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	1.3299	0.8245	0.5026	0.3043	0.1846	0.1085
(W/Kg)							







MEASUREMENT 26

Type: Phone measurement (Complete)

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

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

Date of measurement: 25/11/2009

Measurement duration: 7 minutes 26 seconds

A. Experimental conditions.

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

B. SAR Measurement Results

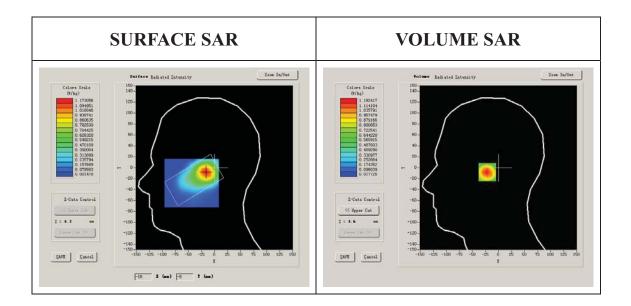
Higher Band SAR (Channel 810):

Frequency (MHz)	1909.800049
Relative permittivity (real part)	39.929001
Relative permittivity	13.156500





Conductivity (S/m)	1.395905		
Variation (%)	0.040000		
Ambient Temperature:	22.3°C		
Liquid Temperature:	22.1°C		
ConvF:	40.136,34.843,38.721		
Crest factor:	1:8		



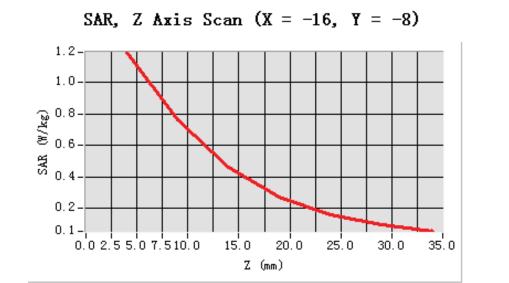
Maximum location: X=-16.00, Y=-8.00

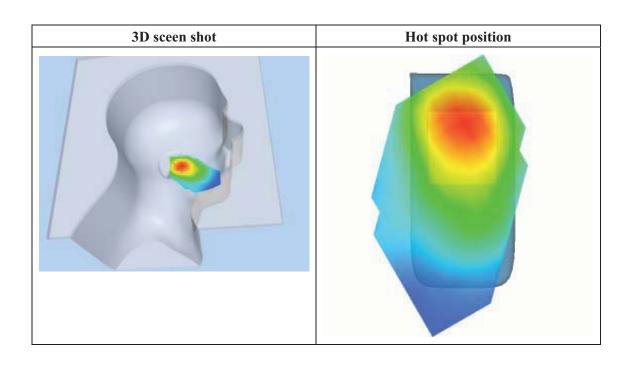
SAR 10g (W/Kg)	0.649111
SAR 1g (W/Kg)	1.120423





Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	1.1924	0.7649	0.4626	0.2748	0.1633	0.0955
(W/Kg)							







MEASUREMENT 27

Type: Phone measurement (Complete)

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

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

Date of measurement: 25/11/2009

Measurement duration: 7 minutes 25 seconds

A. Experimental conditions.

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

B. SAR Measurement Results

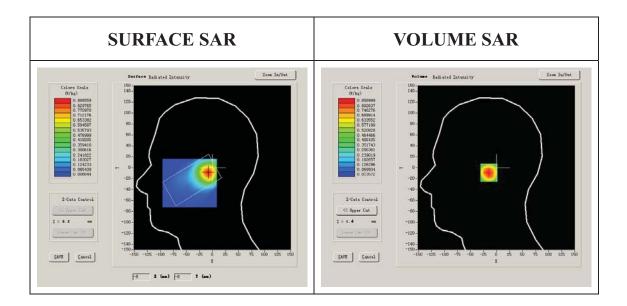
Lower Band SAR (Channel 512):

Frequency (MHz)	1850.199951
Relative permittivity (real part)	39.993999
Relative permittivity	12.991650



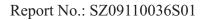


Conductivity (S/m)	1.335397
Variation (%)	-0.770000
Ambient Temperature:	22.3°C
Liquid Temperature:	22.1°C
ConvF:	40.136,34.843,38.721
Crest factor:	1:8



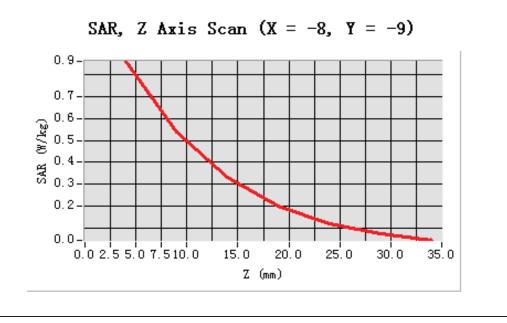
Maximum location: X=-8.00, Y=-9.00

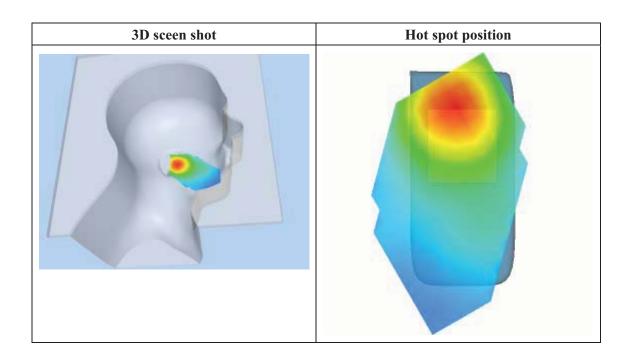
SAR 10g (W/Kg)	0.475173
SAR 1g (W/Kg)	0.816846





Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.8590	0.5393	0.3319	0.2017	0.1199	0.0736
(W/Kg)							







MEASUREMENT 28

Type: Phone measurement (Complete)

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

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

Date of measurement: 25/11/2009

Measurement duration: 7 minutes 26 seconds

A. Experimental conditions.

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

B. SAR Measurement Results

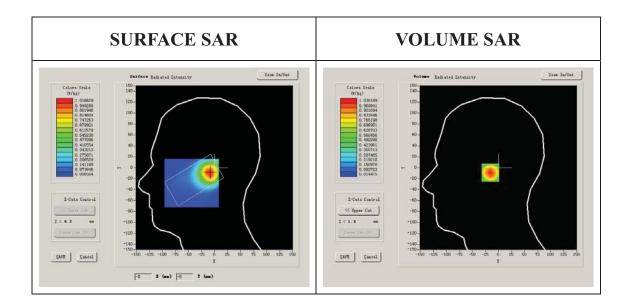
Middle Band SAR (Channel 661):

Frequency (MHz)	1880.000000
Relative permittivity (real part)	38.509998
Relative permittivity	13.750000



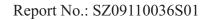


Conductivity (S/m)	1.436111
Variation (%)	-0.440000
Ambient Temperature:	22.3°C
Liquid Temperature:	22.1°C
ConvF:	40.136,34.843,38.721
Crest factor:	1:8



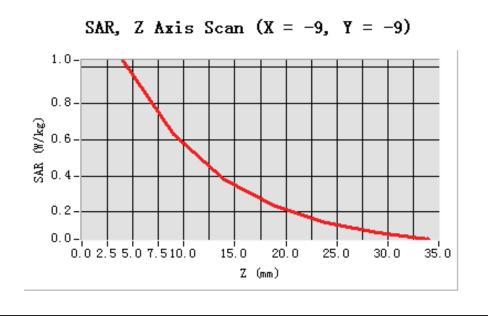
Maximum location: X=-9.00, Y=-9.00

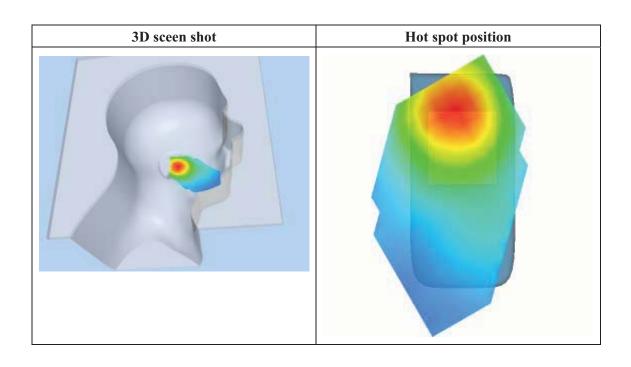
SAR 10g (W/Kg)	0.562898
SAR 1g (W/Kg)	0.984106





Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	1.0382	0.6269	0.3783	0.2339	0.1401	0.0845
(W/Kg)							







MEASUREMENT 29

Type: Phone measurement (Complete)

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

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

Date of measurement: 25/11/2009

Measurement duration: 7 minutes 21 seconds

A. Experimental conditions.

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

B. SAR Measurement Results

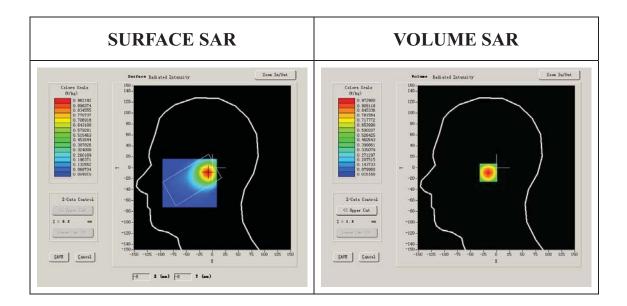
Higher Band SAR (Channel 810):

Frequency (MHz)	1909.800049
Relative permittivity (real part)	39.929001
Relative permittivity	13.156500



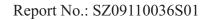


Conductivity (S/m)	1.395905
Variation (%)	-1.070000
Ambient Temperature:	22.3°C
Liquid Temperature:	22.1°C
ConvF:	40.136,34.843,38.721
Crest factor:	1:8



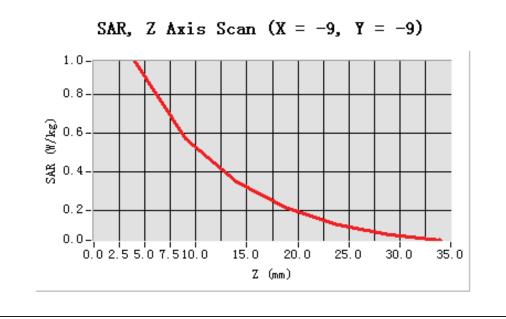
Maximum location: X=-9.00, Y=-9.00

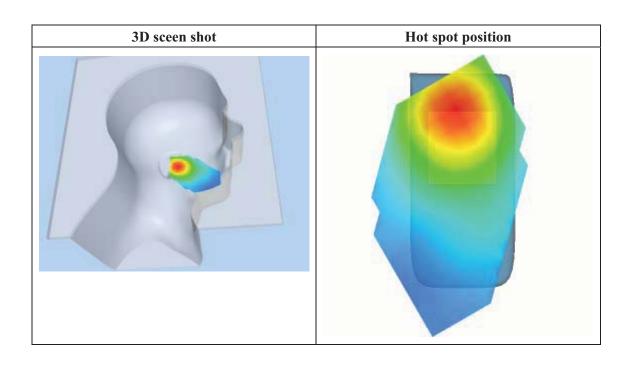
SAR 10g (W/Kg)	0.525919
SAR 1g (W/Kg)	0.925339





Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.9729	0.5724	0.3458	0.2134	0.1275	0.0760
(W/Kg)							







MEASUREMENT 30

Type: Phone measurement (Complete)

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

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

Date of measurement: 25/11/2009

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	TDMA	

B. SAR Measurement Results

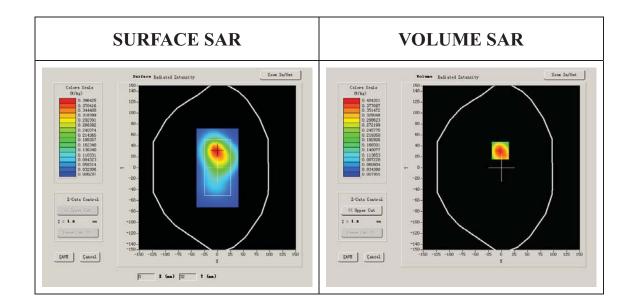
Lower Band SAR (Channel 512):

Frequency (MHz)	1850.199951
Relative permittivity (real part)	10.000000
Relative permittivity	12.000000





Conductivity (S/m)	1.233467
Variation (%)	-0.290000
Ambient Temperature:	22.3°C
Liquid Temperature:	22.1°C
ConvF:	40.136,34.843,38.721
Crest factor:	1:8



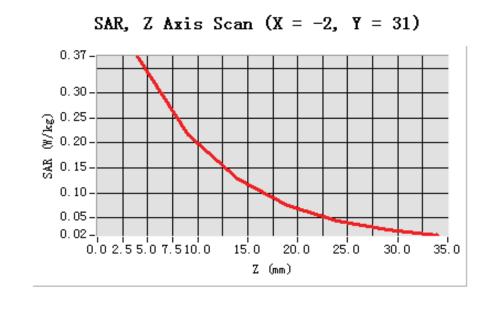
Maximum location: X=-2.00, Y=31.00

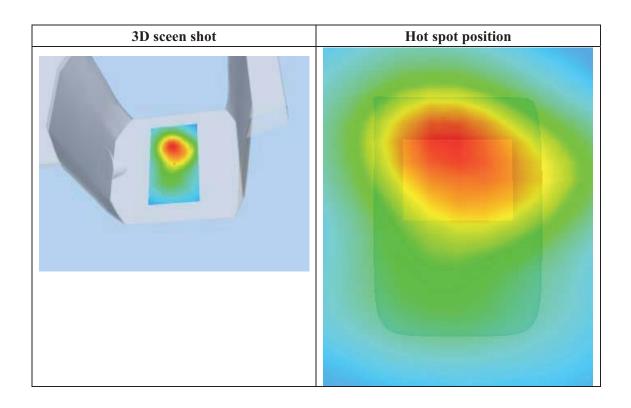
SAR 10g (W/Kg)	0.204111
SAR 1g (W/Kg)	0.353801





Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.3735	0.2158	0.1284	0.0741	0.0436	0.0263
(W/Kg)							







MEASUREMENT 31

Type: Phone measurement (Complete)

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

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

Date of measurement: 25/11/2009

Measurement duration: 9 minutes 7 seconds

A. Experimental conditions.

Phantom File	surf_sam_plan.txt	
Phantom	Validation plane	
Device Position	Body	
Band	GSM1900	
Channels	Middle	
Signal	TDMA	

B. SAR Measurement Results

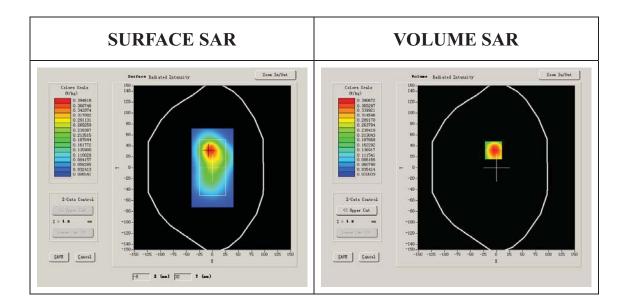
Middle Band SAR (Channel 661):

Frequency (MHz)	1880.000000
Relative permittivity (real part)	51.540001
Relative permittivity	15.070000



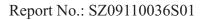


Conductivity (S/m)	1.573978
Variation (%)	-1.140000
Ambient Temperature:	22.3°C
Liquid Temperature:	22.1°C
ConvF:	40.136,34.843,38.721
Crest factor:	1:8



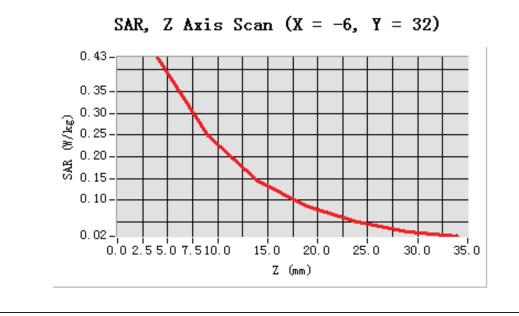
Maximum location: X=-6.00, Y=32.00

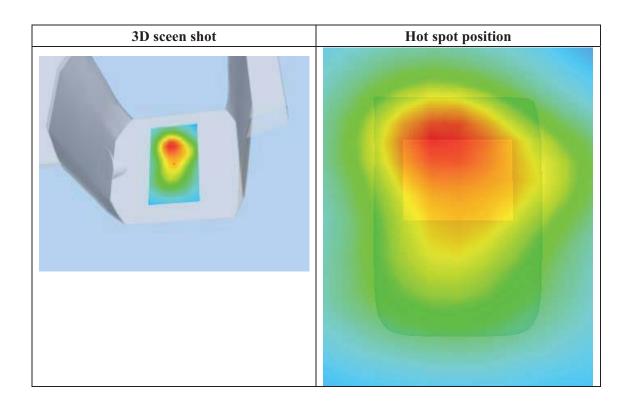
SAR 10g (W/Kg)	0.235473
SAR 1g (W/Kg)	0.411226





Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.4282	0.2490	0.1430	0.0853	0.0488	0.0284
(W/Kg)							







MEASUREMENT 32

Type: Phone measurement (Complete)

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

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

Date of measurement: 25/11/2009

Measurement duration: 9 minutes 9 seconds

A. Experimental conditions.

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

B. SAR Measurement Results

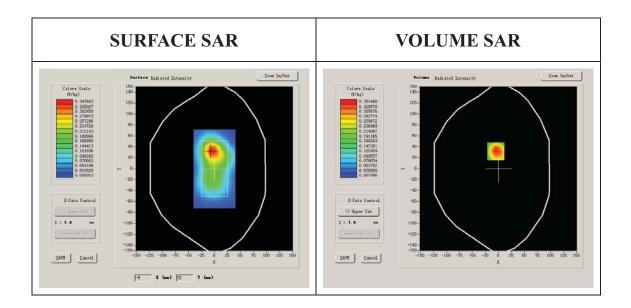
Higher Band SAR (Channel 810):

Frequency (MHz)	1909.800049		
Relative permittivity (real part)	10.000000		
Relative permittivity	12.000000		



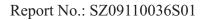


Conductivity (S/m)	1.273200		
Variation (%)	-2.290000		
Ambient Temperature:	22.3°C		
Liquid Temperature:	22.1°C		
ConvF:	40.136,34.843,38.721		
Crest factor:	1:8		



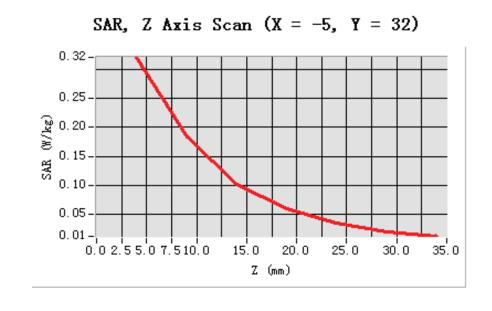
Maximum location: X=-5.00, Y=32.00

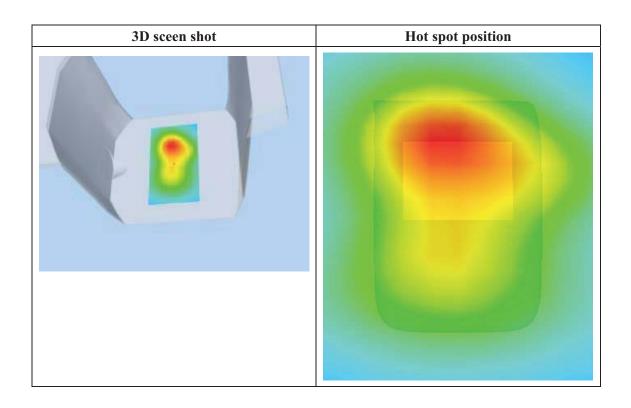
SAR 10g (W/Kg)	0.172408		
SAR 1g (W/Kg)	0.305931		





Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.3206	0.1832	0.1021	0.0595	0.0355	0.0200
(W/Kg)							







MEASUREMENT 33

Type: Phone measurement (Complete)

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

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

Date of measurement: 25/11/2009

Measurement duration: 9 minutes 8 seconds

A. Experimental conditions.

Phantom File	surf_sam_plan.txt		
Phantom	Validation plane		
Device Position	Body		
Band	GSM1900		
Channels	Middle		
Signal	TDMA		

B. SAR Measurement Results

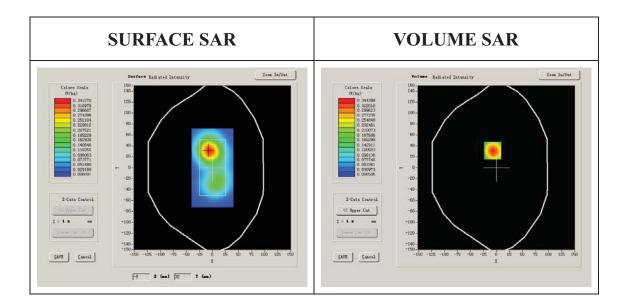
Middle Band SAR (Channel 661):

Frequency (MHz)	1880.000000		
Relative permittivity (real part)	51.540001		
Relative permittivity	15.070000		



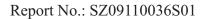


Conductivity (S/m)	1.573978		
Variation (%)	0.080000		
Ambient Temperature:	22.3°C		
Liquid Temperature:	22.1°C		
ConvF:	40.136,34.843,38.721		
Crest factor:	1:8		



Maximum location: X=-7.00, Y=31.00

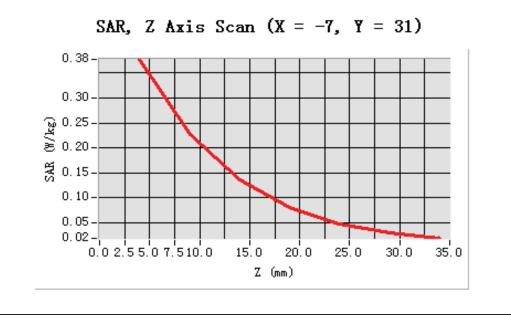
SAR 10g (W/Kg)	0.207410		
SAR 1g (W/Kg)	0.356470		

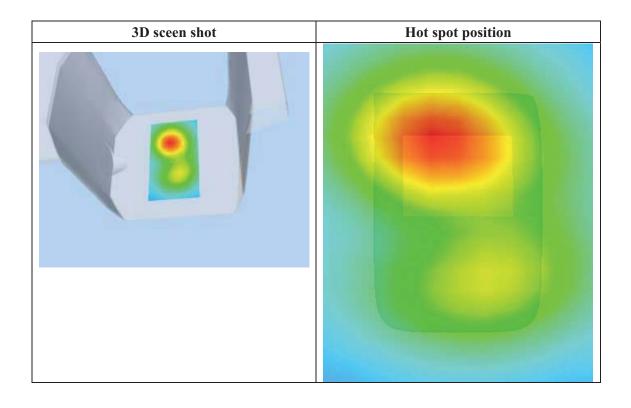




Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.3775	0.2278	0.1363	0.0803	0.0478	0.0293
(W/Kg)							







MEASUREMENT 34

Type: Phone measurement (Complete)

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

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

Date of measurement: 25/11/2009

Measurement duration: 9 minutes 8 seconds

A. Experimental conditions.

Phantom File	surf_sam_plan.txt		
Phantom	Validation plane		
Device Position	Body		
Band	GSM1900		
Channels	Middle		
Signal	TDMA		

B. SAR Measurement Results

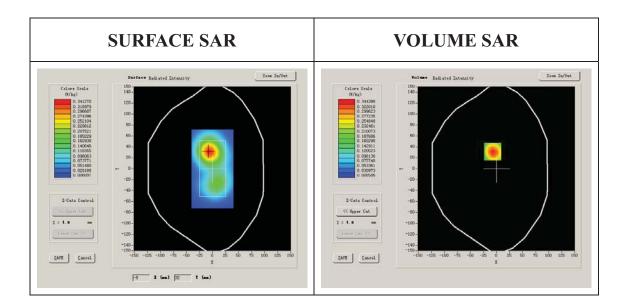
Middle Band SAR (Channel 661):

Frequency (MHz)	1880.000000
Relative permittivity (real part)	51.540001
Relative permittivity	15.070000





Conductivity (S/m)	1.573978
Variation (%)	0.080000
Ambient Temperature:	22.3°C
Liquid Temperature:	22.1°C
ConvF:	40.136,34.843,38.721
Crest factor:	1:8



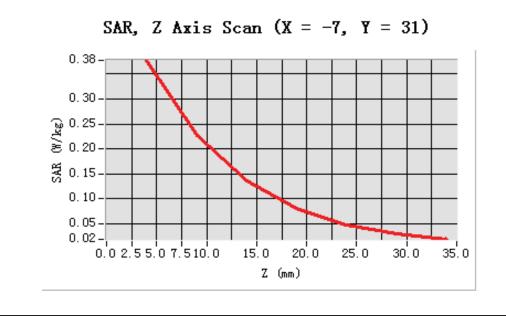
Maximum location: X=-7.00, Y=31.00

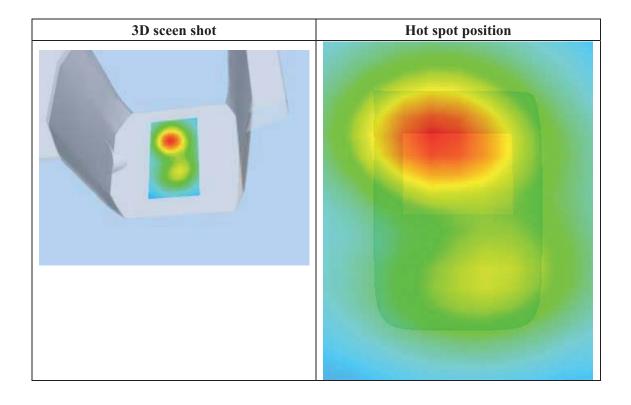
SAR 10g (W/Kg)	0.225635
SAR 1g (W/Kg)	0.394576

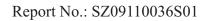




Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.3775	0.2278	0.1363	0.0803	0.0478	0.0293
(W/Kg)							









System Performance Check Data(835MHz Head)

Type: Phone measurement (Complete)

Date of measurement: 25/11/2009

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

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

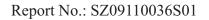
A. Experimental conditions.

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

B. SAR Measurement Results

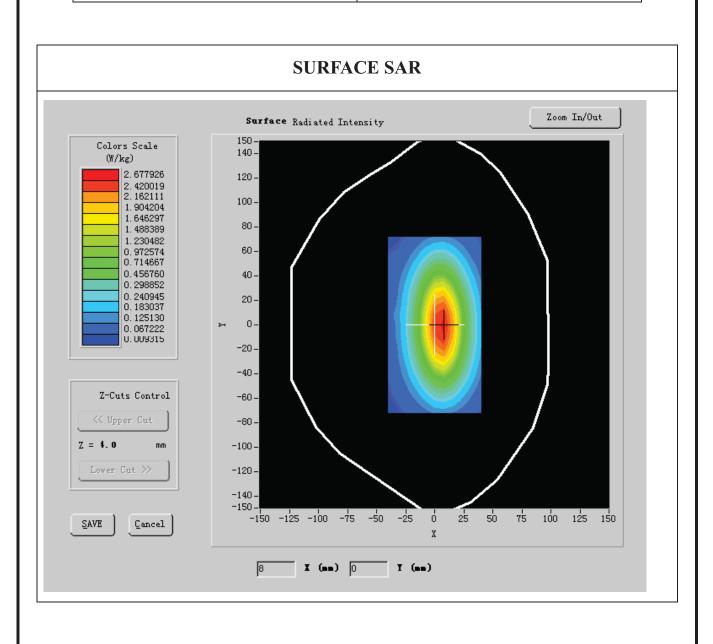
Middle Band SAR:

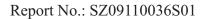
Frequency (MHz)	835.00000
Relative permittivity (real part)	41.790001
Relative permittivity	18.926250





Conductivity (S/m)	0.866612
Variation (%)	-0.050000
Ambient Temperature:	23.5°C
Liquid Temperature:	22.8°C
ConvF:	28.479,25.214,27.196
Crest factor:	1:1



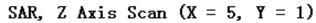


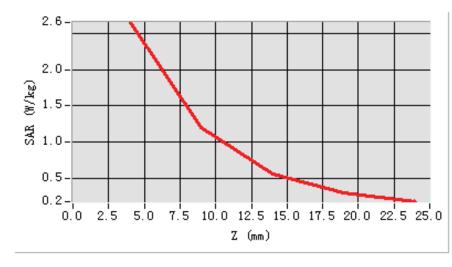


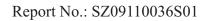
Maximum location: X=5.00, Y=1.00

SAR 10g (W/Kg)	1.875252
SAR 1g (W/Kg)	2.709422

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









System Performance Check Data(835MHz Body)

Type: Phone measurement (Complete)

Date of measurement: 25/11/2009

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

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

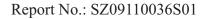
A. Experimental conditions.

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

B. SAR Measurement Results

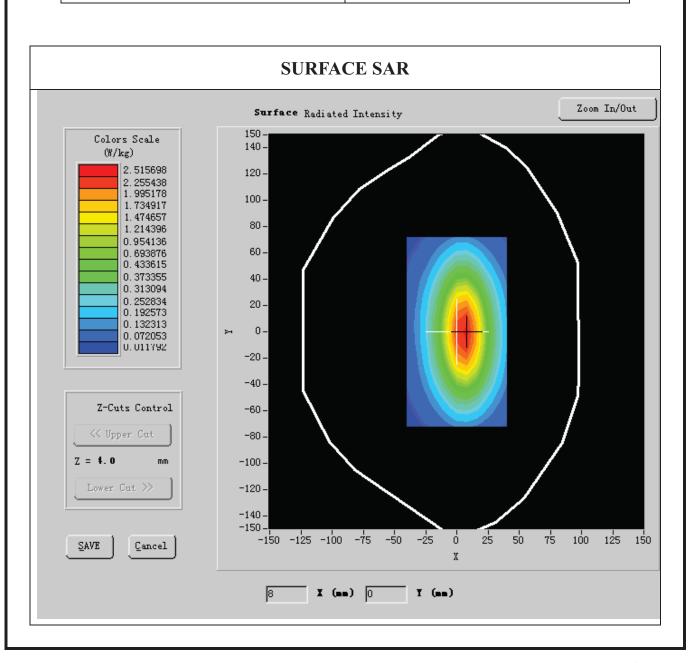
Middle Band SAR:

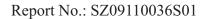
Frequency (MHz)	835.000000
Relative permittivity (real part)	54.872231
Relative permittivity	15.070000





Conductivity (S/m)	1.054822
Variation (%)	-0.140000
Ambient Temperature:	23.5°C
Liquid Temperature:	22.8°C
ConvF:	28.479,25.214,27.196
Crest factor:	1:1



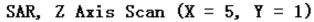




Maximum location: X=5.00, Y=1.00

SAR 10g (W/Kg)	1.652852
SAR 1g (W/Kg)	2.701584

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









System Performance Check Data(1900MHz Head)

Type: Phone measurement (Complete)

Date of measurement: 25/11/2009

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

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

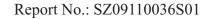
A. Experimental conditions.

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

B. SAR Measurement Results

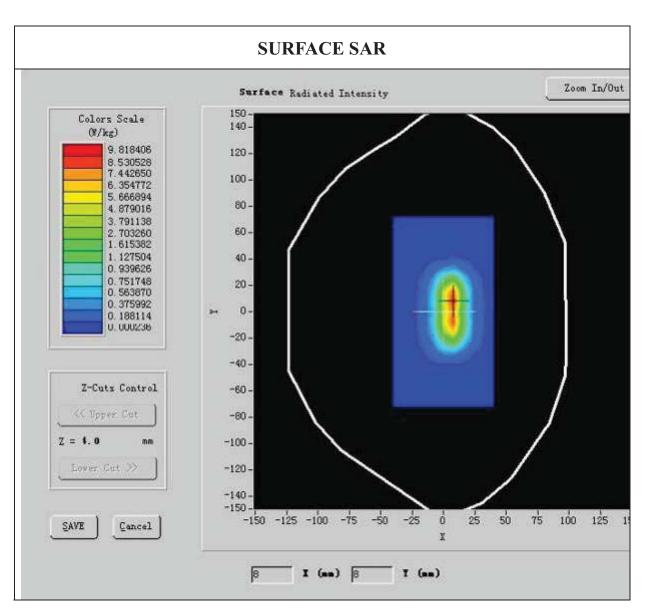
Lower Band SAR:

Frequency (MHz)	1900.000000
Relative permittivity (real part)	39.481223
Relative permittivity (12.991650
Conductivity (S/m)	1.395758

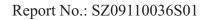




Variation (%)	0.570000
Ambient Temperature:	23.5°C
Liquid Temperature:	22.8°C
ConvF:	40.136,34.843,38.721
Crest factor:	1:1

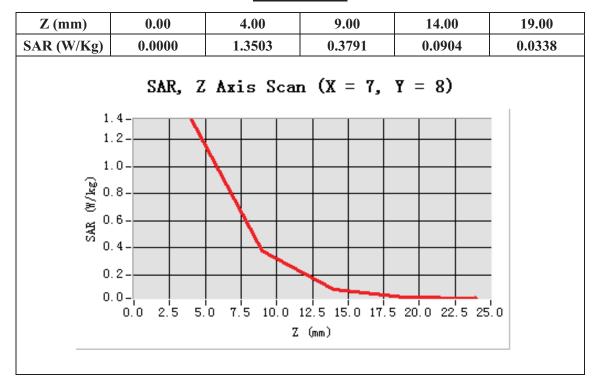


Maximum location: X=7.00, Y=8.00





SAR 10g (W/Kg)	5.873331
SAR 1g (W/Kg)	9.843651







System Performance Check Data(1900MHz Body)

Type: Phone measurement (Complete)

Date of measurement: 25/11/2009

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

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

A. Experimental conditions.

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

B. SAR Measurement Results

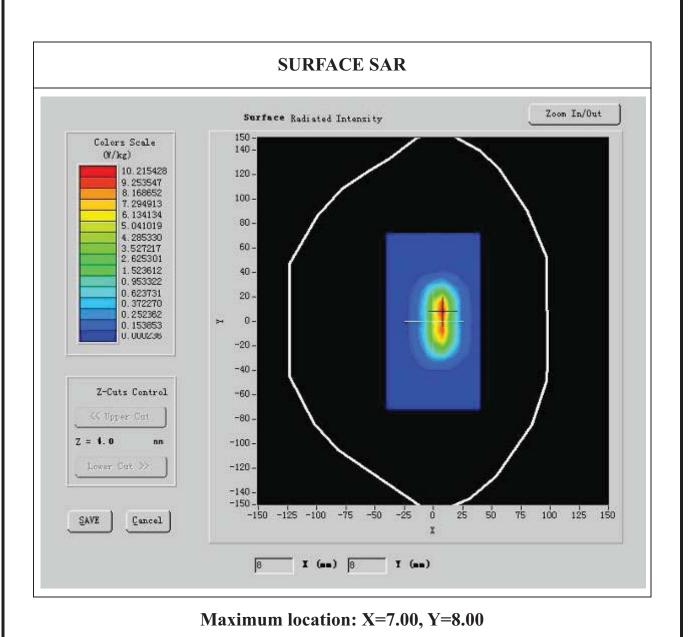
Lower Band SAR:

Frequency (MHz)	1900.000000
Relative permittivity (real part)	52.548876
Relative permittivity (imaginary	12.991650
part)	





Conductivity (S/m)	1.573978
Variation (%)	0.570000
Ambient Temperature:	23.5°C
Liquid Temperature:	22.8°C
ConvF:	40.136,34.843,38.721
Crest factor:	1:1







SAR 10g (W/Kg)	5.487222
SAR 1g (W/Kg)	10.225723

