

FCC SAR

TEST REPORT

of

GSM Mobile Phone

Model Name:

S1 S1

Trade Name:

SZ09090103S02

Report No.: FCC ID:

RV2S1

prepared for

Ezze Mobile Tech., Inc

2F, Samyoung Bldg., 106-2 Banpo-dong, Seocho-ku, Seoul, Korea

pidrepared by

Shenzhen Electronic Product Quality Testing Center

Morlab Laboratory

3/F, Electronic Testing Building, Shahe Road, Xili, Nanshan District, Shenzhen, 518055 P. R. China Tel: +86 755 86130398

Fax: +86 755 86130218















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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.:

SZ09090103S02

Date of Issue:

Feb 26, 2010

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.

Tested by

(Responsible for the Test Report)

Li Lei

Reviewed by

Verification of the Test Report)

Shu Luan

Certification

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	Type	
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: Ezze Mobile Tech., Inc

Address: 2F, Samyoung Bldg., 106-2 Banpo-dong, Seocho-ku, Seoul, Korea

3.2. Identification of Manufacturer

Company Name: Ezze Mobile Tech., Inc

Address: 2F, Samyoung Bldg., 106-2 Banpo-dong, Seocho-ku, Seoul, Korea

3.3. Equipment Under Test (EUT)

Brand Name: S1
Type Name: S1
Marking Name: S1
Hardware Version: V1.0
Software Version: V1.0

Frequency Bands: 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: S1

Battery specification: 700mAh 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#	V1.0	V1.0

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: PCS 1900MHz
Operation mode: Call established

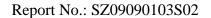
Power Level: PCS 1900 MHz Maximum output power(level 0)

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 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

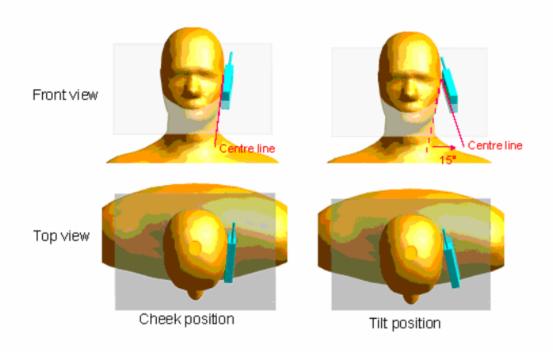
I.1. Normative reference

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.

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	00
Axial Isotropy	E.2.2	2.5	R	V3	(1-Cp) ^{1/2}	(1-Cp) ^{1/2}	1.02	1.02	00
Hemispherical Isotropy	E.2.2	4.0	R	√3	VCp	VCp	1.63	1.63	00
Boundary effect	E.2.3	1.0	R	V3	1	1	0.58	0.58	00
Linearity	E.2.4	5.0	R	√3	1	1	2.89	2.89	~
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	V3	1	1	1.73	1.73	~
Integration Time	E.2.8	2.0	R	V3	1	1	1.15	1.15	
RF ambient Conditions	E.6.1	3.0	R	V3	1	1	1.73	1.73	
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	∞
Extrapolation, interpolation and integration Algoritms for Max. SAR Evaluation	E.5.2	5.0	R	√3	1	1	2.89	2.89	~
Test sample Related									
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	88
Liquid conductivity - deviation from target value	E.3.2	0.57	R	√3	0.64	0.43	0.21	0.14	~



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	8
from target value				¥3					
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	1900MHz		
Target value (1g)	39.7 W/Kg		
250 mW in mot a comm	9.843 W/Kg (head)		
250 mW input power	10.22 W/Kg (body)		
Tost volue (1m)	39.372 W/Kg (head)		
Test value (1g)	40.88 W/Kg (body)		

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



4.3.5. Dielectric Performance

The measured 1-gram averaged SAR values of the device against the head and the body are provided in Tables 1 and 2 respectively. The humidity and ambient temperature of test facility were 54% ~60% and 23.0 °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.

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

Table 2: Dielectric Performance of Body Tissue Simulating Liquid

Temperature: 23.0~23.8°C, humidity: 54~60%.							
/	Frequency	Permittivity ε	Conductivity σ (S/m)				
Target value	835 MHz	55. 0	0.95				
Validation value (Nov 25)	835 MHz	54. 872231	1. 054822				
Target value	1900 MHz	53. 3	1.52				
Validation value (Nov 25)	1900 MHz	52. 548876	1. 573978				



4.3.6. Simulant liquids

Simulant liquids that are used for testing at frequencies of GSM 1900MHz, which are made mainly of sugar, salt and water solutions may be left in the phantoms. Approximately 20litres are needed for an upright head compared to about 20litres for a horizontal bath phantom.

Ingredients	Frequency Band		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 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 1900MHz Band)

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

Temperature: 23.0~23.8°C, humidity: 54~60%.					
Limit of SAD (W//rg)	1 g Average				
Limit of SAR (W/kg)	-	1.6			
	Measuremen	t Result (W/kg)			
Test Case	1 g Average	Power level			
	(W/kg)	(dBm)			
Left head, Touch cheek, Channel Low	1.084	27.04			
Left head, Touch cheek, Channel Middle	1.090	27.06			
Left head, Touch cheek, Channel High	1.125	27.14			
Left head, Tilt 15 Degree, Channel Low	0.841	27.04			
Left head, Tilt 15 Degree, Channel Middle	0.902	27.06			
Left head, Tilt 15 Degree, Channel High	0.952	27.14			
Right head, Touch cheek, Channel Low	1.117	27.04			
Right head, Touch cheek, Channel Middle	1.142	27.06			
Right head, Touch cheek, Channel High	1.170	27.14			
Right head, Tilt 15 Degree, Channel Low	0.982	27.04			
Right head, Tilt 15 Degree, Channel Middle	0.998	27.06			
Right head, Tilt 15 Degree, Channel High	1.051	27.14			

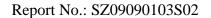
SAR Values (GSM 1900MHz Band), Measured against the body.

Temperature: 23.0~23.8°C, humidity: 54~60%.					
Limit of SAD (W//rg)	1 g Average				
Limit of SAR (W/kg)	1.6				
	Measuremen	t Result (W/kg)			
Test Case	1 g Average	Power level			
	(W/kg)	(dBm)			
Side, Low frequency	0.627	27.04			
Side, Middle frequency	0.735	27.06			
Side, High frequency	0.699	27.14			
Side, Middle frequency (back)	0.341	27.06			
Side, Middle frequency (with earphone)	0.710	27.06			
Side, Middle frequency (with GPRS)	1.193	27.06			

Note: The depth of the body tissue was 15.1cm. The distance between the back of the device and the



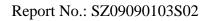
bottom of the antenna)	flat	phantom	is	1.5cm(taking	into	account	of	the	IEEE	1528	and	the	place	of	the





Annex A Accreditation Certificate





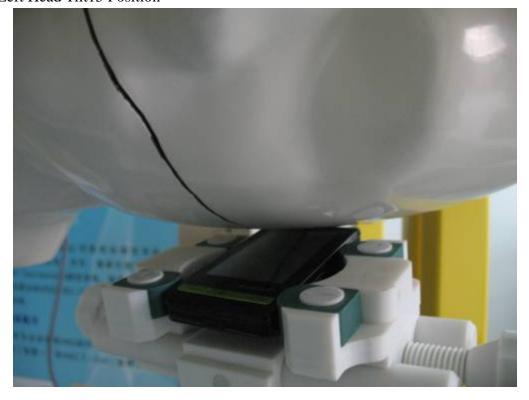


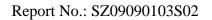
Annex BPhotographs of the EUT

1 EUT Left Head Touch Cheek Position



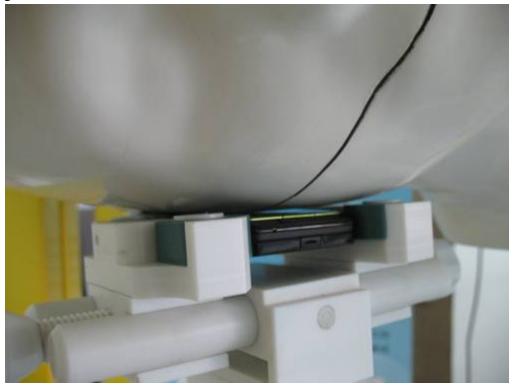
2 EUT Left Head Tilt15 Position



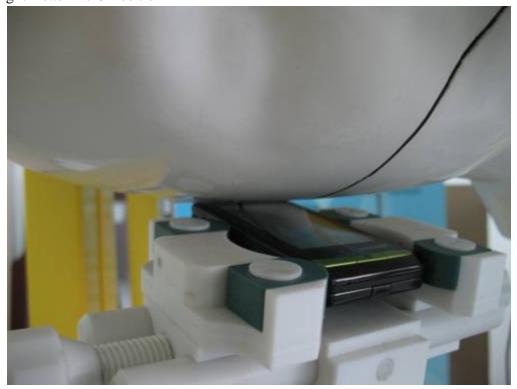


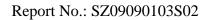


3 EUT Right Head Touch Cheek Position



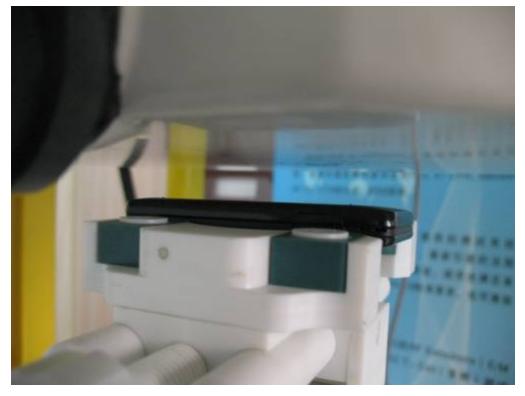
4 EUT Right Head Tilt15 Position





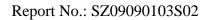


5 Side Position



6 spacer 1.5cm

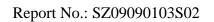






Annex C Graph Test Results

TYPE	BAND	<u>PARAMETERS</u>
	<u>GSM</u> <u>1900</u>	Measurement 1: Right Head with Cheek device position on Low Channel in GSM mode Measurement 2: Right Head with Cheek device position on Middle Channel in GSM mode Measurement 3: Right Head with Cheek device position on High Channel in GSM mode Measurement 4: Right Head with Tilt device position on Low Channel in GSM mode Measurement 5: Right Head with Tilt device position on Middle Channel in GSM mode Measurement 6: Right Head with Tilt device position on 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 15: Validation Plane with Body device position on Low Channel in GSM mode Measurement 16: Validation Plane with Body device position on Low Channel in GSM mode Measurement 16: Validation Plane with Body device position on Low Channel in GSM mode (with earphone) Measurement 17: Validation Plane with Body device position on Low Channel in GSM mode (with earphone) Measurement 18: Validation Plane with Body device position on Low Channel in GSM mode (with earphone)





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	Tilt
Band	GSM1900
Channels	Low
Signal	GSM

B. SAR Measurement Results

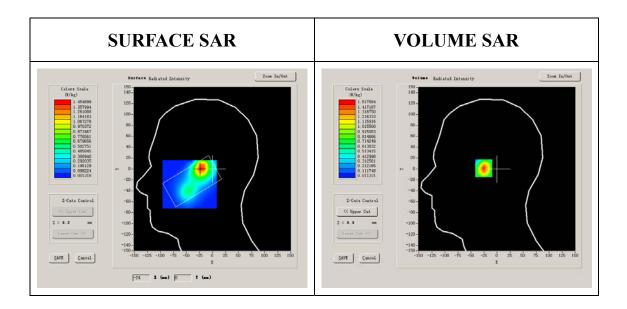
Lower Band SAR (Channel 512):

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



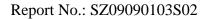


Conductivity (S/m)	1.335397
Variation (%)	-0.260000
Ambient Temperature:	22.3°C
Liquid Temperature:	22.1°C
ConvF:	40.136,34.843,38.721
Crest factor:	1:8



Maximum location: X=-22.00, Y=2.00

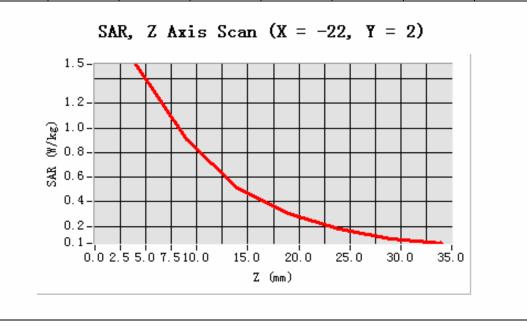
SAR 10g (W/Kg)	0.644544
SAR 1g (W/Kg)	1.117182

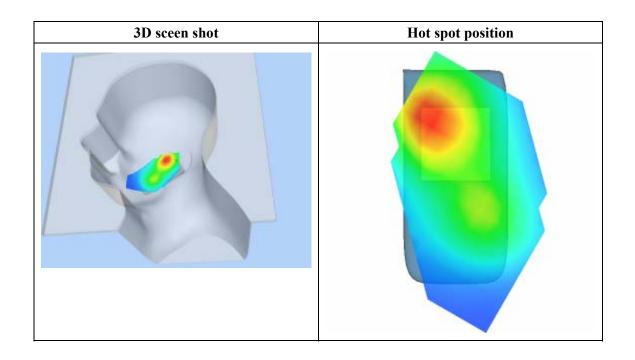


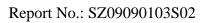


Z Axis Scan

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 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 24 seconds

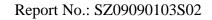
A. Experimental conditions.

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

B. SAR Measurement Results

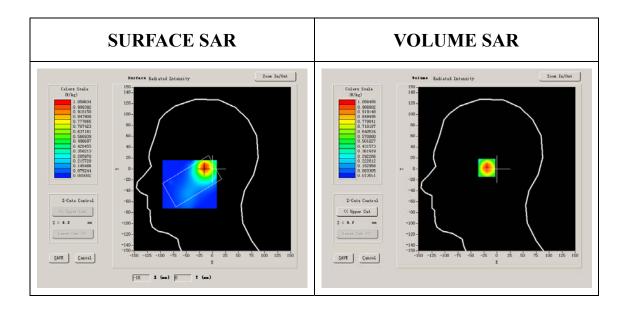
Lower Band SAR (Channel 512):

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



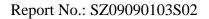


Conductivity (S/m)	1.335397
Variation (%)	-1.390000
Ambient Temperature:	22.3°C
Liquid Temperature:	22.1°C
ConvF:	40.136,34.843,38.721
Crest factor:	1:8



Maximum location: X=-15.00, Y=2.00

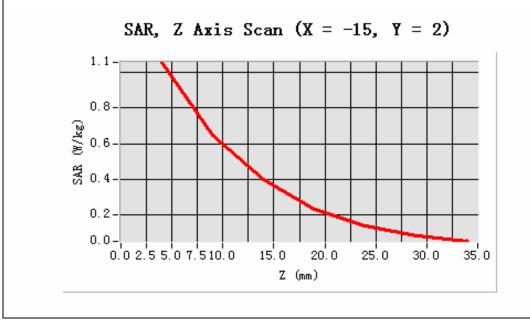
SAR 10g (W/Kg)	0.652056
SAR 1g (W/Kg)	1.142768

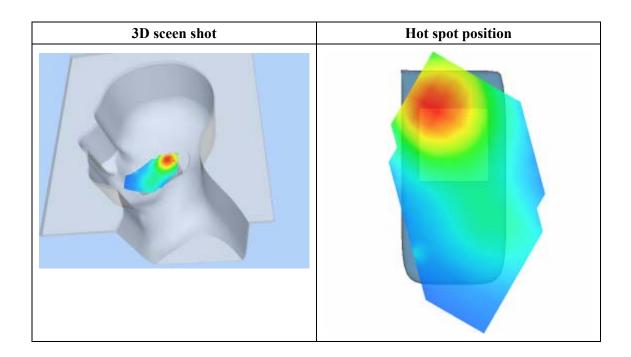




Z Axis Scan

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 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 24 seconds

A. Experimental conditions.

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

B. SAR Measurement Results

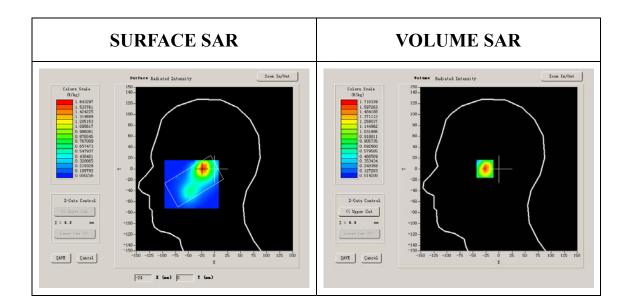
Middle Band SAR (Channel 661):

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



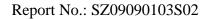


Conductivity (S/m)	1.436111		
Variation (%)	-0.040000		
Ambient Temperature:	22.3°C		
Liquid Temperature:	22.1°C		
ConvF:	40.136,34.843,38.721		
Crest factor:	1:8		



Maximum location: X=-23.00, Y=1.00

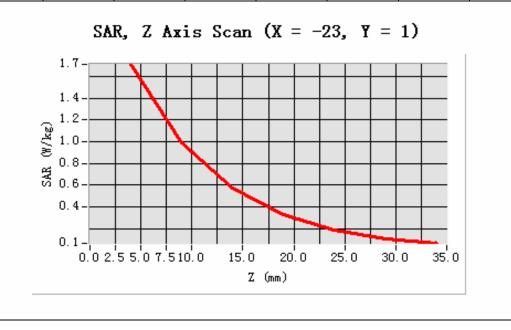
SAR 10g (W/Kg)	0.734994		
SAR 1g (W/Kg)	1.170919		

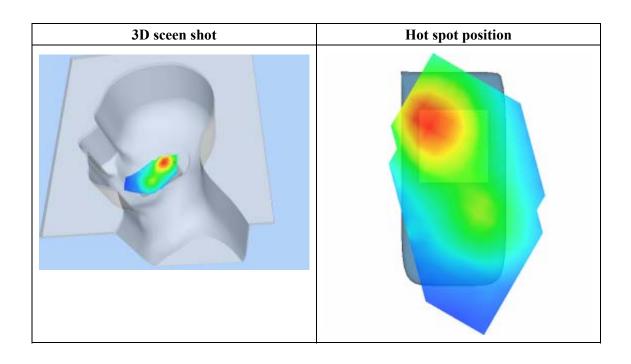




Z Axis Scan

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 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 20 seconds

A. Experimental conditions.

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

B. SAR Measurement Results

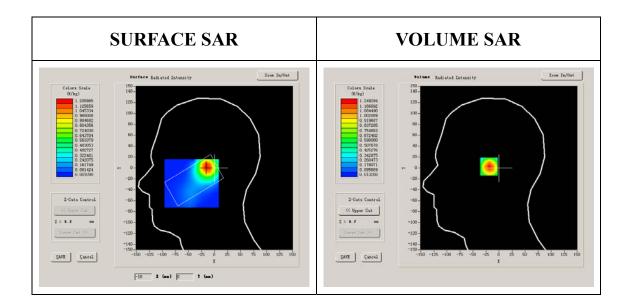
Middle Band SAR (Channel 661):

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



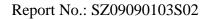


Conductivity (S/m)	1.436111		
Variation (%)	0.440000		
Ambient Temperature:	22.3°C		
Liquid Temperature:	22.1°C		
ConvF:	40.136,34.843,38.721		
Crest factor:	1:8		



Maximum location: X=-15.00, Y=3.00

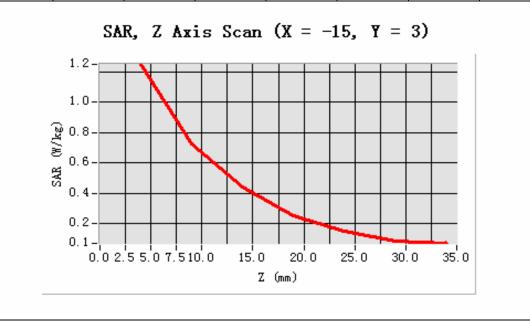
SAR 10g (W/Kg)	0.558085		
SAR 1g (W/Kg)	0.981577		

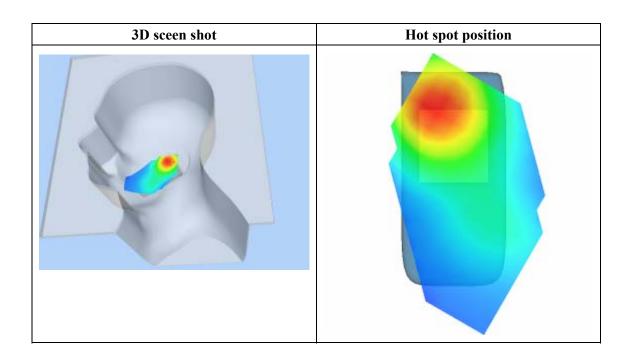




Z Axis Scan

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 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 28 seconds

A. Experimental conditions.

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

B. SAR Measurement Results

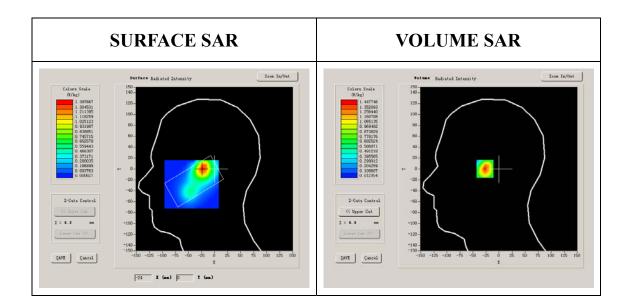
Higher Band SAR (Channel 810):

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



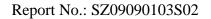


Conductivity (S/m)	1.395905
Variation (%)	2.310000
Ambient Temperature:	22.3°C
Liquid Temperature:	22.1°C
ConvF:	40.136,34.843,38.721
Crest factor:	1:8



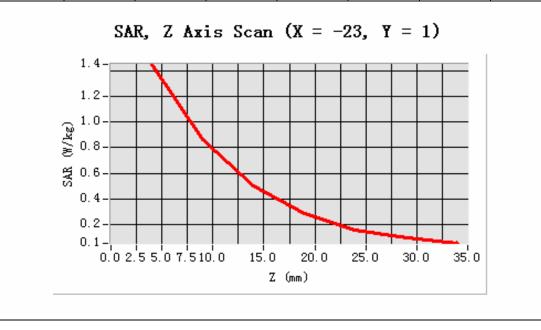
Maximum location: X=-23.00, Y=1.00

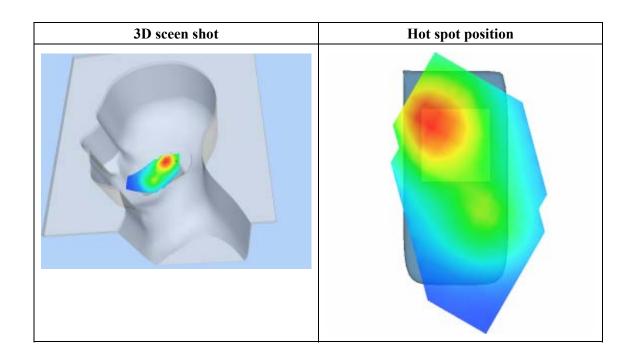
SAR 10g (W/Kg)	0.526118
SAR 1g (W/Kg)	0.997748

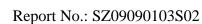




Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	1.4477	0.8621	0.5026	0.2826	0.1606	0.0937
(W/Kg)							









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

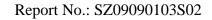
A. Experimental conditions.

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

B. SAR Measurement Results

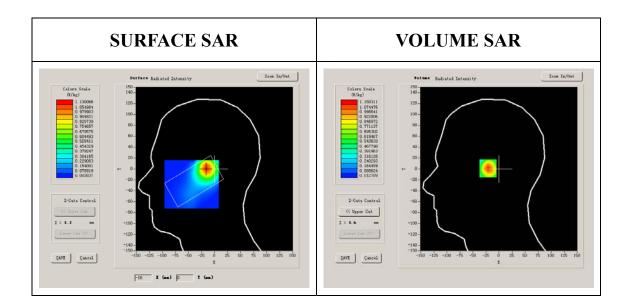
Higher Band SAR (Channel 810):

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



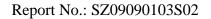


Conductivity (S/m)	1.395905		
Variation (%)	-1.410000		
Ambient Temperature:	22.3°C		
Liquid Temperature:	22.1°C		
ConvF:	40.136,34.843,38.721		
Crest factor:	1:8		



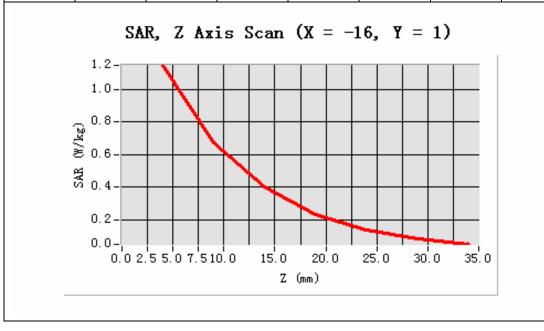
Maximum location: X=-16.00, Y=1.00

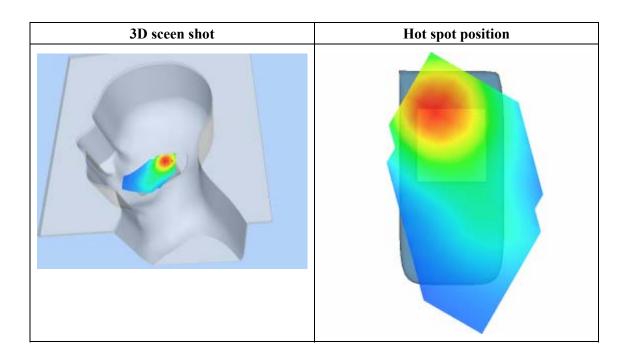
SAR 10g (W/Kg)	0.597456		
SAR 1g (W/Kg)	1.051919		

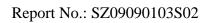




Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	1.1503	0.6709	0.3998	0.2323	0.1383	0.0799
(W/Kg)							









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

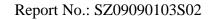
A. Experimental conditions.

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

B. SAR Measurement Results

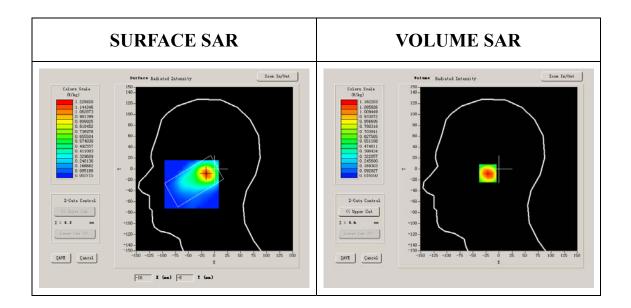
Lower Band SAR (Channel 512):

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



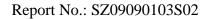


Conductivity (S/m)	1.335397		
Variation (%)	-1.600000		
Ambient Temperature:	22.3°C		
Liquid Temperature:	22.1°C		
ConvF:	40.136,34.843,38.721		
Crest factor:	1:8		



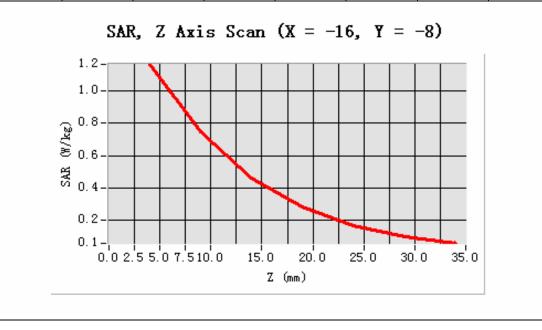
Maximum location: X=-16.00, Y=-8.00

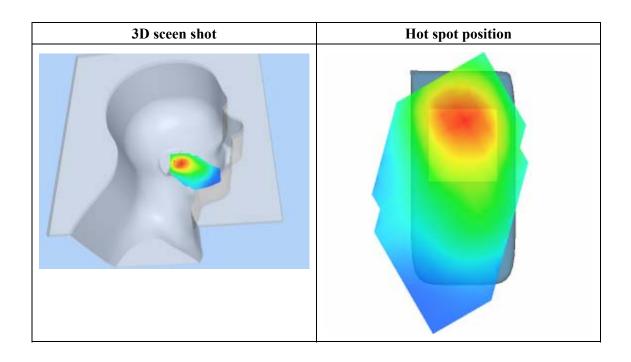
SAR 10g (W/Kg)	0.545595
SAR 1g (W/Kg)	1.084153





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)							







Report No.: SZ09090103S02

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	GSM1900		
Channels	Middle		
Signal	GSM		

B. SAR Measurement Results

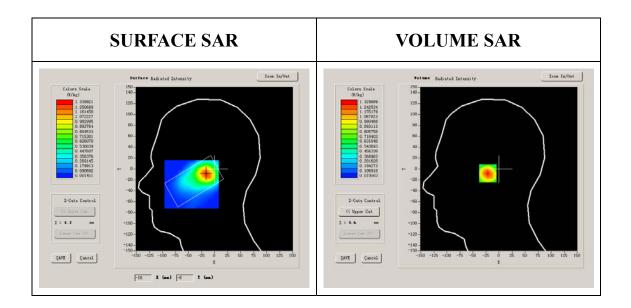
Middle Band SAR (Channel 661):

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



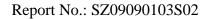


Conductivity (S/m)	1.436111
Variation (%)	-1.360000
Ambient Temperature:	22.3°C
Liquid Temperature:	22.1°C
ConvF:	40.136,34.843,38.721
Crest factor:	1:8



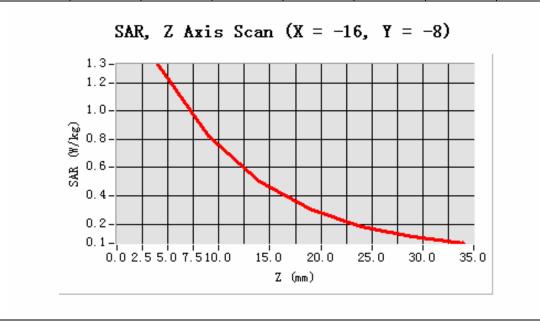
Maximum location: X=-16.00, Y=-8.00

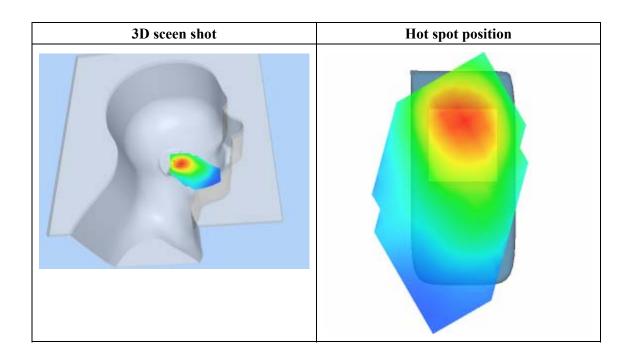
SAR 10g (W/Kg)	0.518427
SAR 1g (W/Kg)	1.090747

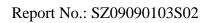




Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	1.3299	0.8245	0.5026	0.3043	0.1846	0.1085
(W/Kg)							









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

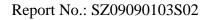
A. Experimental conditions.

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

B. SAR Measurement Results

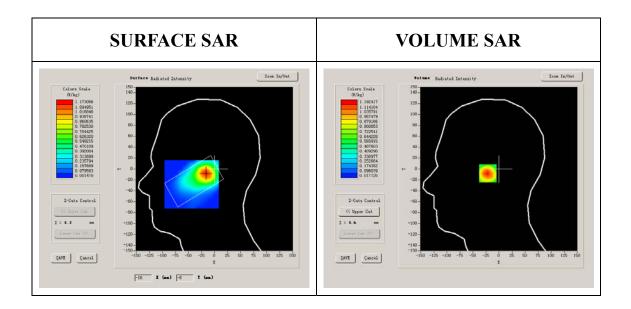
Higher Band SAR (Channel 810):

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



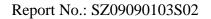


Conductivity (S/m)	1.395905
Variation (%)	0.040000
Ambient Temperature:	22.3°C
Liquid Temperature:	22.1°C
ConvF:	40.136,34.843,38.721
Crest factor:	1:8



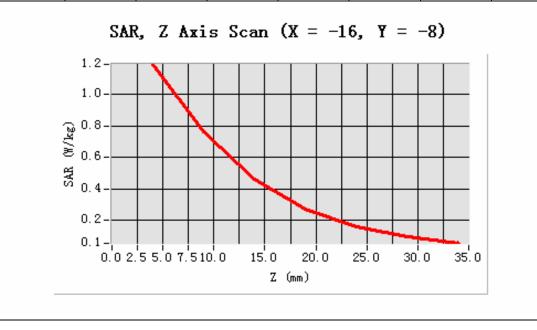
Maximum location: X=-16.00, Y=-8.00

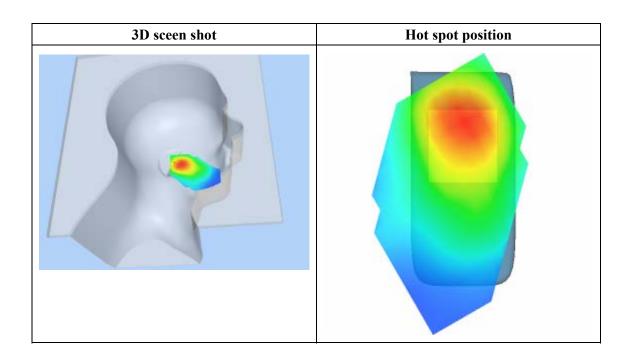
SAR 10g (W/Kg)	0.649111
SAR 1g (W/Kg)	1.125423

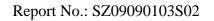




Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	1.1924	0.7649	0.4626	0.2748	0.1633	0.0955
(W/Kg)							









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	GSM

B. SAR Measurement Results

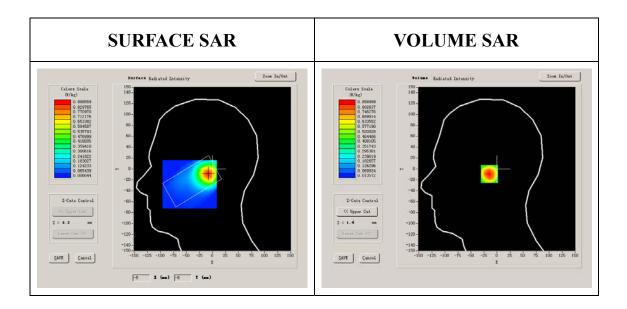
Lower Band SAR (Channel 512):

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



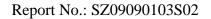


Conductivity (S/m)	1.335397
Variation (%)	-0.770000
Ambient Temperature:	22.3°C
Liquid Temperature:	22.1°C
ConvF:	40.136,34.843,38.721
Crest factor:	1:8



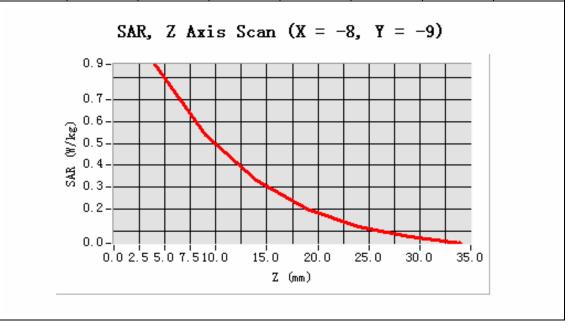
Maximum location: X=-8.00, Y=-9.00

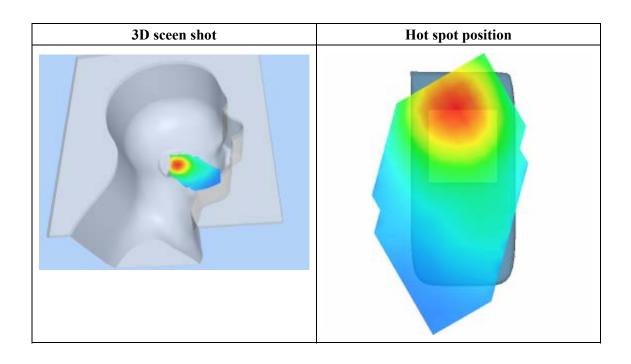
SAR 10g (W/Kg)	0.475173
SAR 1g (W/Kg)	0.841846





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)							









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	GSM

B. SAR Measurement Results

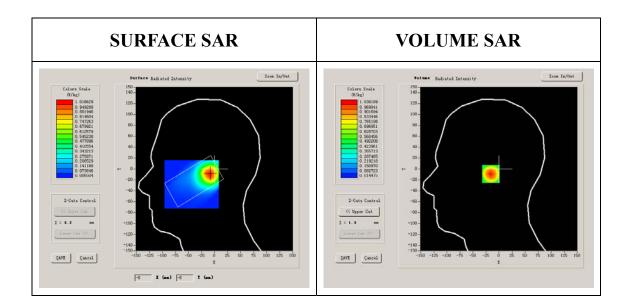
Middle Band SAR (Channel 661):

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



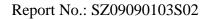


Conductivity (S/m)	1.436111		
Variation (%)	-0.440000		
Ambient Temperature:	22.3°C		
Liquid Temperature:	22.1°C		
ConvF:	40.136,34.843,38.721		
Crest factor:	1:8		



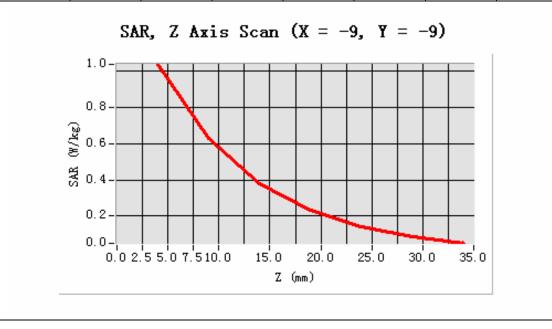
Maximum location: X=-9.00, Y=-9.00

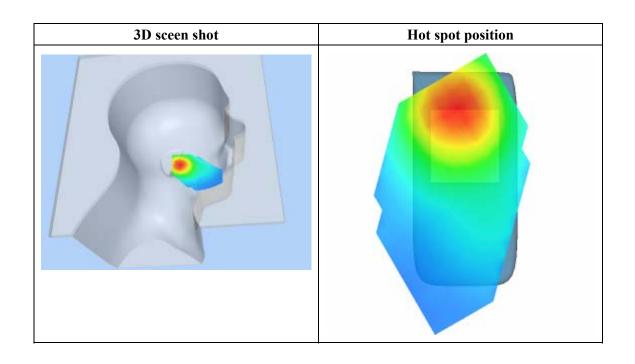
SAR 10g (W/Kg)	0.532898
SAR 1g (W/Kg)	0.902106

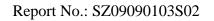




Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	1.0382	0.6269	0.3783	0.2339	0.1401	0.0845
(W/Kg)							









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	GSM

B. SAR Measurement Results

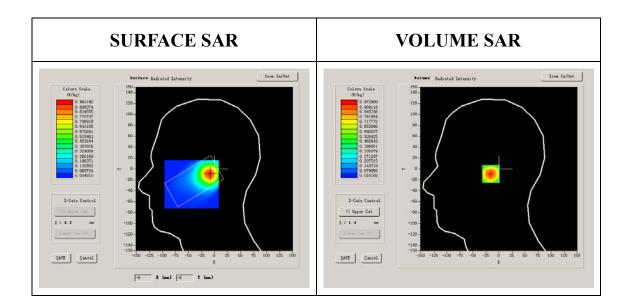
Higher Band SAR (Channel 810):

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



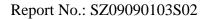


Conductivity (S/m)	1.395905		
Variation (%)	-1.070000		
Ambient Temperature:	22.3°C		
Liquid Temperature:	22.1°C		
ConvF:	40.136,34.843,38.721		
Crest factor:	1:8		



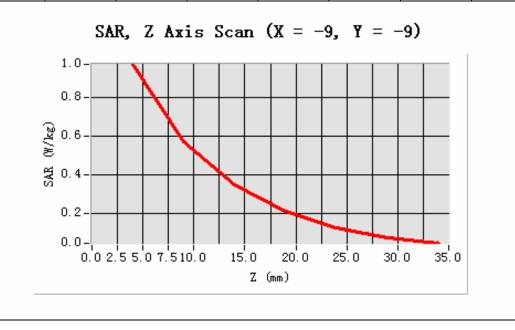
Maximum location: X=-9.00, Y=-9.00

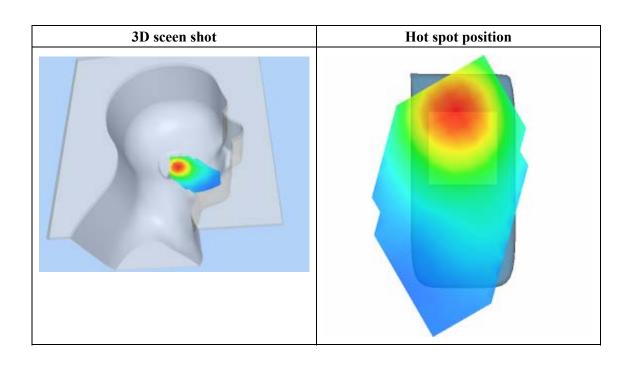
SAR 10g (W/Kg)	0.525919
SAR 1g (W/Kg)	0.952339

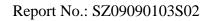




Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.9729	0.5724	0.3458	0.2134	0.1275	0.0760
(W/Kg)							









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	GSM		

B. SAR Measurement Results

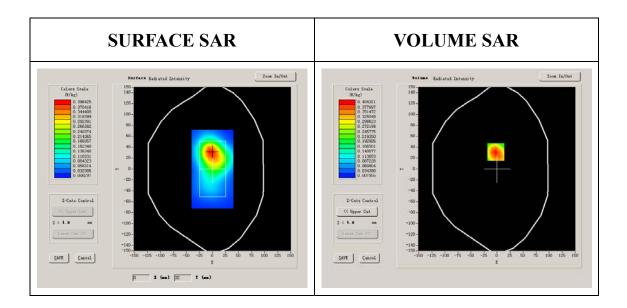
Lower Band SAR (Channel 512):

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



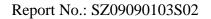


Conductivity (S/m)	1.233467	
Variation (%)	-0.290000	
Ambient Temperature:	22.3°C	
Liquid Temperature:	22.1°C	
ConvF:	40.136,34.843,38.721	
Crest factor:	1:8	



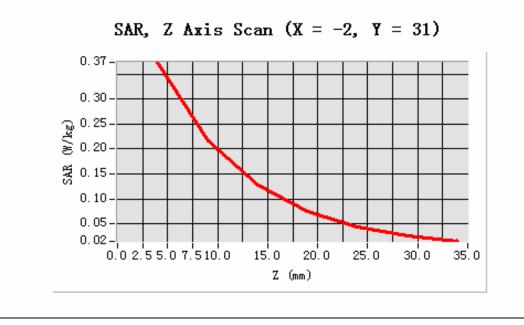
Maximum location: X=-2.00, Y=31.00

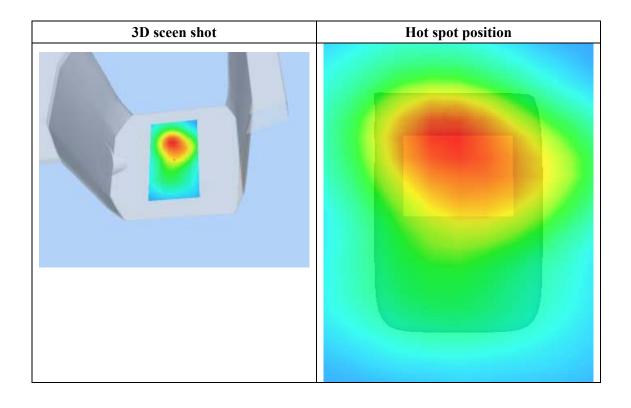
SAR 10g (W/Kg)	0.304111	
SAR 1g (W/Kg)	0.627801	

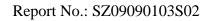




Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.3735	0.2158	0.1284	0.0741	0.0436	0.0263
(W/Kg)							









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

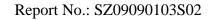
A. Experimental conditions.

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

B. SAR Measurement Results

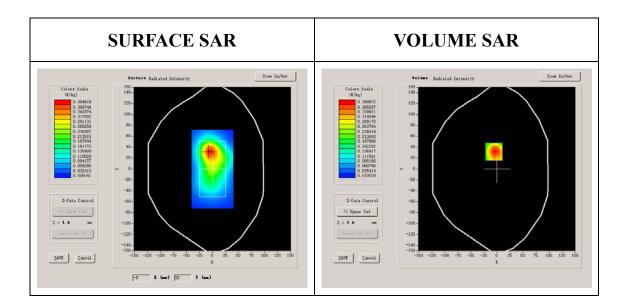
Middle Band SAR (Channel 661):

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



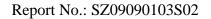


Conductivity (S/m)	1.573978	
Variation (%)	-1.140000	
Ambient Temperature:	22.3°C	
Liquid Temperature:	22.1°C	
ConvF:	40.136,34.843,38.721	
Crest factor:	1:8	



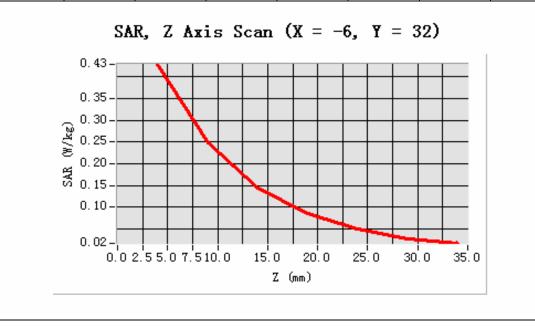
Maximum location: X=-6.00, Y=32.00

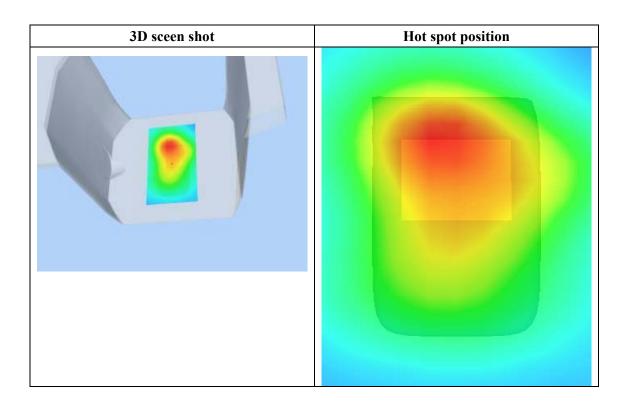
SAR 10g (W/Kg)	0.435473	
SAR 1g (W/Kg)	0.735226	

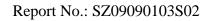




Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.4282	0.2490	0.1430	0.0853	0.0488	0.0284
(W/Kg)							









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	GSM	

B. SAR Measurement Results

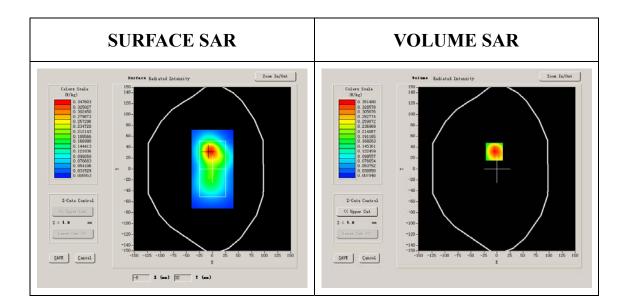
Higher Band SAR (Channel 810):

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



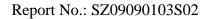


Conductivity (S/m)	1.273200
Variation (%)	-2.290000
Ambient Temperature:	22.3°C
Liquid Temperature:	22.1°C
ConvF:	40.136,34.843,38.721
Crest factor:	1:8



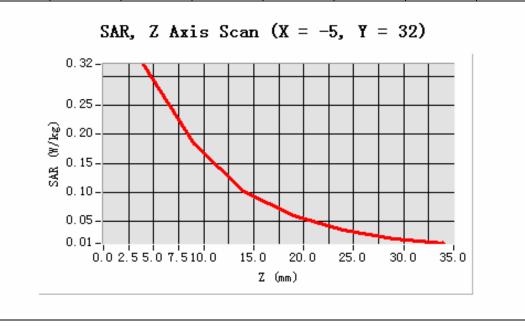
Maximum location: X=-5.00, Y=32.00

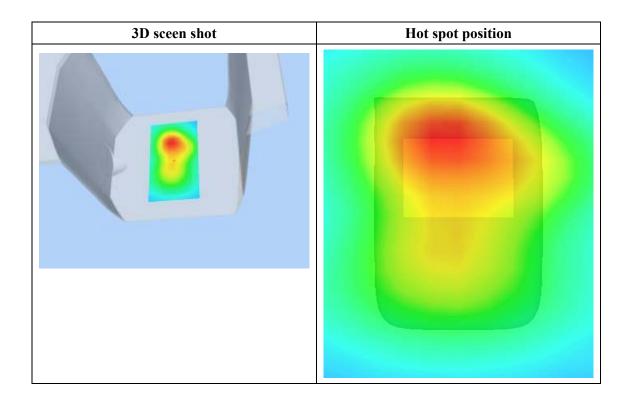
SAR 10g (W/Kg)	0.372408
SAR 1g (W/Kg)	0.699931

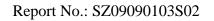




Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.3206	0.1832	0.1021	0.0595	0.0355	0.0200
(W/Kg)							









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	GSM	

B. SAR Measurement Results

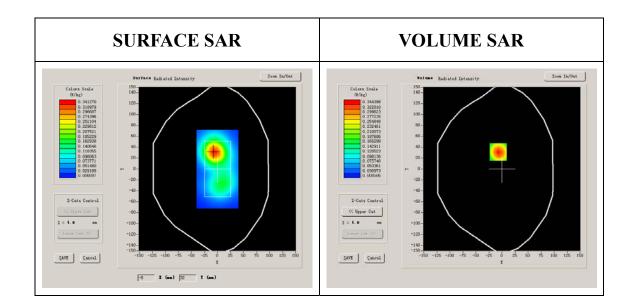
Middle Band SAR (Channel 661):

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



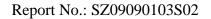


Conductivity (S/m)	1.573978
Variation (%)	0.080000
Ambient Temperature:	22.3°C
Liquid Temperature:	22.1°C
ConvF:	40.136,34.843,38.721
Crest factor:	1:8



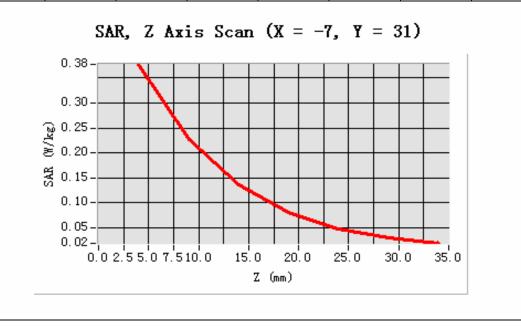
Maximum location: X=-7.00, Y=31.00

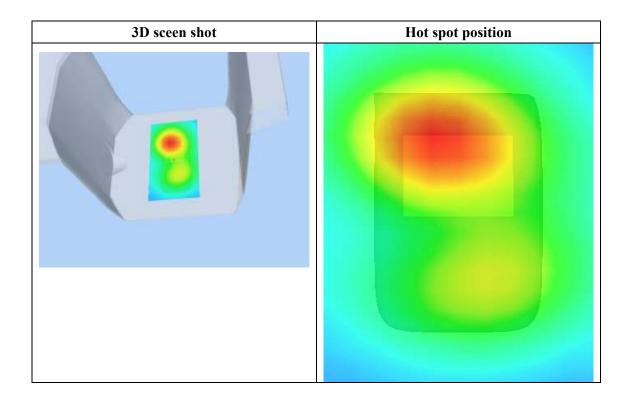
SAR 10g (W/Kg)	0.207410
SAR 1g (W/Kg)	0.341470

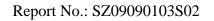




Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.3775	0.2278	0.1363	0.0803	0.0478	0.0293
(W/Kg)							









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

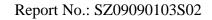
A. Experimental conditions.

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

B. SAR Measurement Results

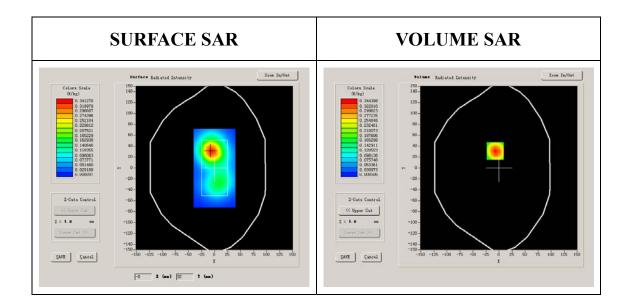
Middle Band SAR (Channel 661):

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



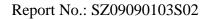


Conductivity (S/m)	1.573978
Variation (%)	0.080000
Ambient Temperature:	22.3°C
Liquid Temperature:	22.1°C
ConvF:	40.136,34.843,38.721
Crest factor:	1:8



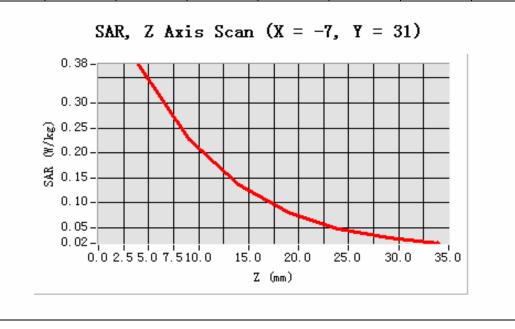
Maximum location: X=-7.00, Y=31.00

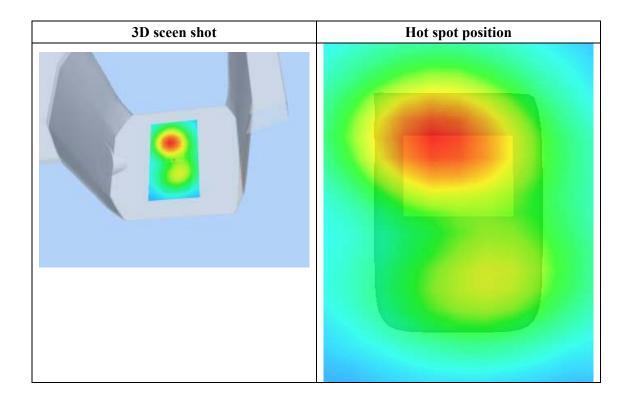
SAR 10g (W/Kg)	0.325635
SAR 1g (W/Kg)	0.710576

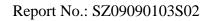




Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.3775	0.2278	0.1363	0.0803	0.0478	0.0293
(W/Kg)							









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	GPRS	

B. SAR Measurement Results

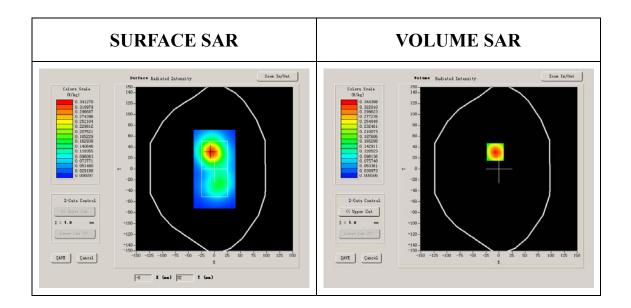
Middle Band SAR (Channel 661):

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



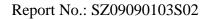


Conductivity (S/m)	1.573978	
Variation (%)	0.080000	
Ambient Temperature:	22.3°C	
Liquid Temperature:	22.1°C	
ConvF:	40.136,34.843,38.721	
Crest factor:	1:2	



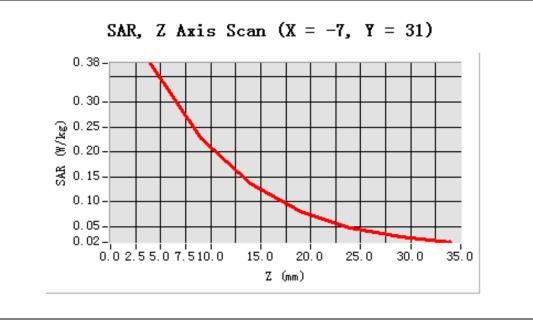
Maximum location: X=-7.00, Y=31.00

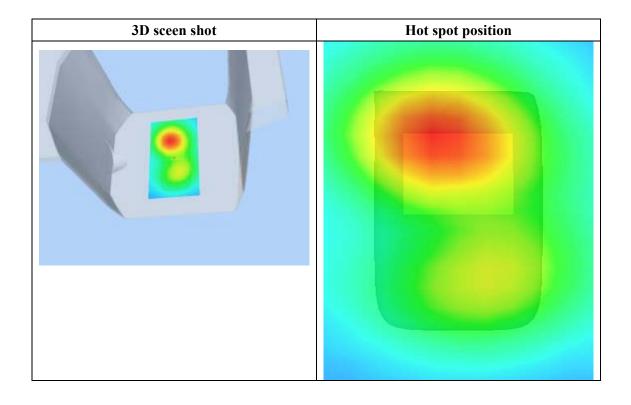
SAR 10g (W/Kg)	0.683311	
SAR 1g (W/Kg)	1.193623	

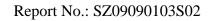




Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.3775	0.2278	0.1363	0.0803	0.0478	0.0293
(W/Kg)							









System Performance Check Data(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

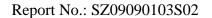
A. Experimental conditions.

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

B. SAR Measurement Results

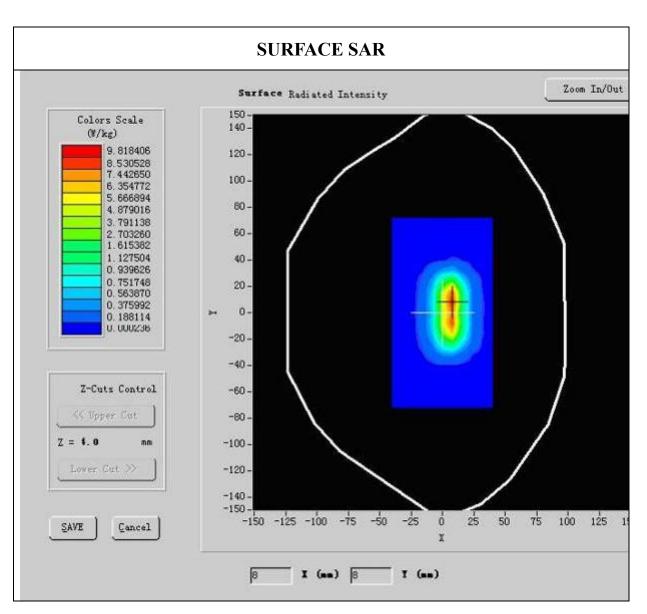
Lower Band SAR:

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

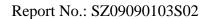




Variation (%)	0.570000		
Ambient Temperature:	23.5°C		
Liquid Temperature:	22.8°C		
ConvF:	40.136,34.843,38.721		
Crest factor:	1:1		

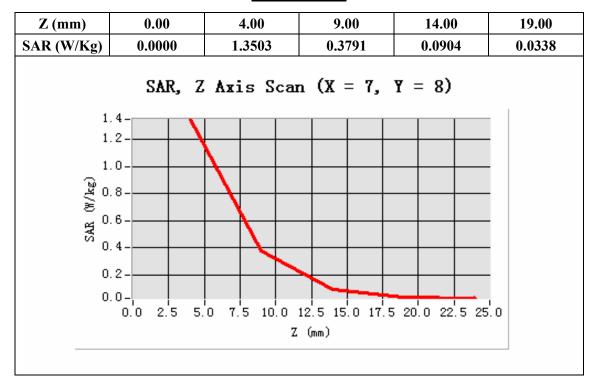


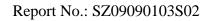
Maximum location: X=7.00, Y=8.00





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

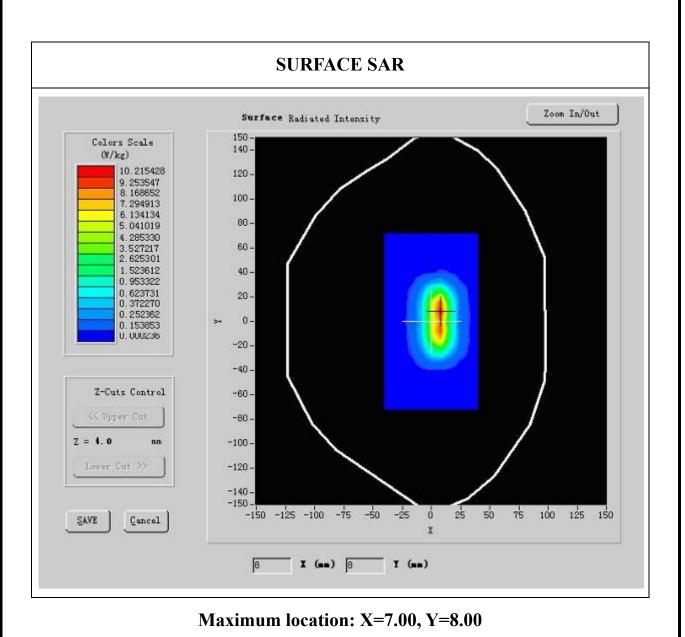
Lower Band SAR:

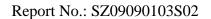
Frequency (MHz)	1900.000000
Relative permittivity (real part)	52.548876
Relative permittivity (imaginary	12.991650
part)	





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

