

FCC SAR

TEST REPORT

of

Mobile Phone

Model Name:

T100

Trade Name:

TINNO

Report No .:

SZ09070091S01

FCC ID:

XD6T100

prepared for

SHENZHEN TINNO MOBILE TECHNOLOGY CO.,LTD.

4/F.,H-3 Building,OCT Eastern Industrial Park. NO.1 XiangShan East Road.,Nan Shan District,Shenzhen,P.R.China.

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.:

SZ09070091S01

Date of Issue:

Aug. 10, 2009

Date of Tests:

Aug. 5, 2009 - Aug. 5, 2009

Responsible for Accreditation:

Shuluan

Project Manager:

Chen chao

Deputy Project Manager:

Li Lei

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 successfully with the tested equipment.

> then this Chen chao

Tested by

(Responsible for the Test Repor

Reviewed by

ication of the Test Report)

Shuluan

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 Annex A)

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: SHENZHEN TINNO MOBILE TECHNOLOGY CO.,LTD.

Address: 4/F.,H-3 Building,OCT Eastern Industrial Park. NO.1 XiangShan East

Road., Nan Shan District, Shenzhen, P.R. China.

3.2. Identification of Manufacturer

Company Name: SHENZHEN TINNO MOBILE TECHNOLOGY CO.,LTD.

Address: 4/F.,H-3 Building,OCT Eastern Industrial Park. NO.1 XiangShan East

Road., Nan Shan District, Shenzhen, P.R. China.

3.3. Equipment Under Test (EUT)

Brand Name: TINNO
Type Name: TINNO
Marking Name: T100
Hardware Version: V1.0
Software Version: V5.0

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
Accessories: Charger; Battery

Battery Model: T100

Battery specification: 650mAh 3.7V Development Stage Identical prototype



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	V5.0		

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: GSM 850MHz

PCS 1900MHz

Operation mode: Call established

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

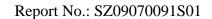
PCS 1900 MHz Maximum output power(level 0)

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

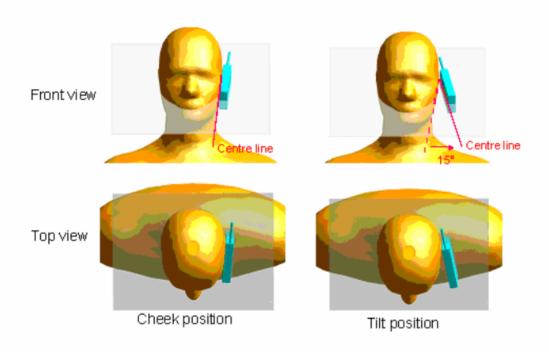
I.1. Normative reference

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.

$\Pi.4$ 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	√3	(1-Cp) ^{1/2}	(1-Cp) ^{1/2}	1.02	1.02	00
Hemispherical Isotropy	E.2.2	4.0	R	√3	√Cp	√Co	1.63	1.63	00
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	00
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	00
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	00
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	\[\sigma_{\sigma}	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	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 127-138 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 Conduction								
Target value	835 MHZ	41.5	0. 90					
Validation value (Aug 5)	835 MHZ	41. 790001	0. 896612					
Target value	1900 MHZ	40	1.40					
Validation value (Aug 5)	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/m								
Target value	835 MHz	55. 0	10. 5					
Validation value (Aug 5)	835 MHz	54. 872231	10. 548224					
Target value	1900 MHz	53. 3	1.52					



Validation value	1900 MHz	52. 548876	1. 573978
(Aug 5)			

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	Frequency Band		Frequen	cy Band
(% by weight)	835]	MHz	1900	MHz
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.	cl. "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 850MHz Band)

SAR Values (GSM 850MHz 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	0.589	31.79
Left head, Touch cheek, Channel Middle	0.789	32.19
Left head, Touch cheek, Channel High	0.813	32.25
Left head, Tilt 15 Degree, Channel Low	0.288	31.79
Left head, Tilt 15 Degree, Channel Middle	0.393	32.19
Left head, Tilt 15 Degree, Channel High	0.393	32.25
Right head, Touch cheek, Channel Low	0.583	31.79
Right head, Touch cheek, Channel Middle	0.754	32.19
Right head, Touch cheek, Channel High	0.817	32.25
Right head, Tilt 15 Degree, Channel Low	0.313	31.79
Right head, Tilt 15 Degree, Channel Middle	0.416	32.19
Right head, Tilt 15 Degree, Channel High	0.430	32.25

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 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	0.254	29.35
Left head, Touch cheek, Channel Middle	0.377	30.08
Left head, Touch cheek, Channel High	0.448	30.57
Left head, Tilt 15 Degree, Channel Low	0.074	29.35
Left head, Tilt 15 Degree, Channel Middle	0.112	30.08
Left head, Tilt 15 Degree, Channel High	0.158	30.57
Right head, Touch cheek, Channel Low	0.261	29.35



Right head, Touch cheek, Channel Middle	0.375	30.08
Right head, Touch cheek, Channel High	0.475	30.57
Right head, Tilt 15 Degree, Channel Low	0.091	29.35
Right head, Tilt 15 Degree, Channel Middle	0.144	30.08
Right head, Tilt 15 Degree, Channel High	0.194	30.57

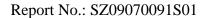
SAR Values (GSM 850MHz Band), Measured against the body.

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	0.406	31.79
Side, Middle frequency	0.560	32.19
Side, High frequency	0.505	32.25
Side, High frequency(back)	0.516	32.25
Side, High frequency(with GPRS)	1.131	32.25

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

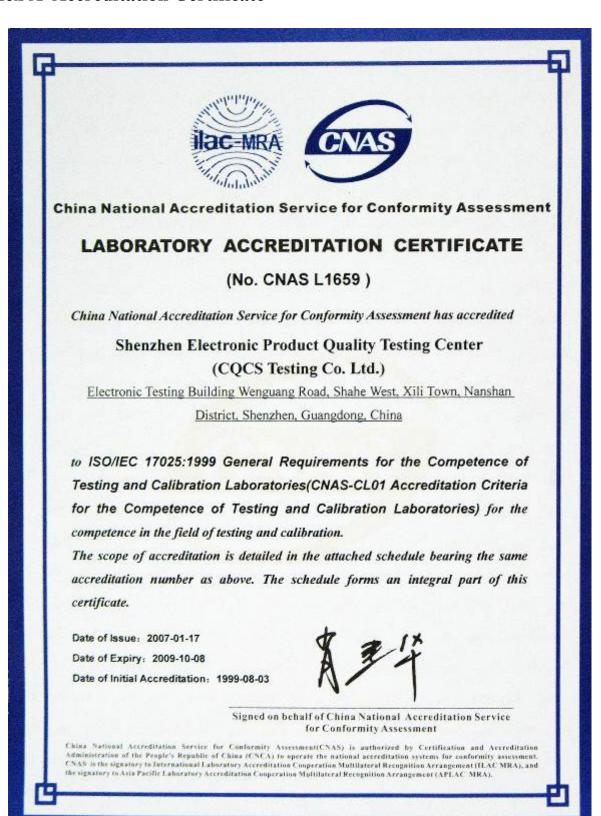
Temperature: 23.0~23.8°C, humidity: 54~60%.		
Limit of SAR (W/kg)	1 g Average	
Limit of SAR (W/kg)	1.6	
	Measuremen	t Result (W/kg)
Test Case	1 g Average	Power level
	(W/kg)	(dBm)
Side, Low frequency	0.071	29.35
Side, Middle frequency	0.136	30.08
Side, High frequency	0.170	30.57
Side, Low frequency(back)	0.162	29.35
Side, Low frequency(with GPRS)	0.637	29.35

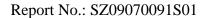
Note: The depth of the body tissue was 15.1cm. The distance between the back of the device and the bottom of the flat phantom is 1.5cm(taking into account of the IEEE 1528 and the place of the antenna)





Annex A Accreditation Certificate

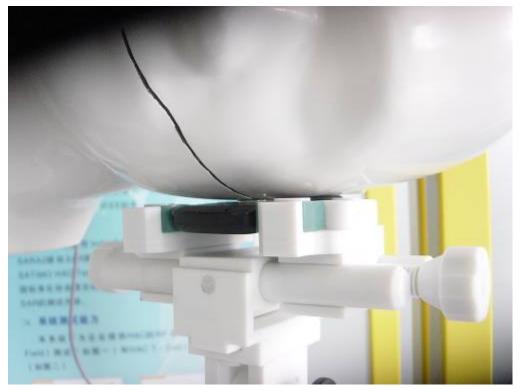




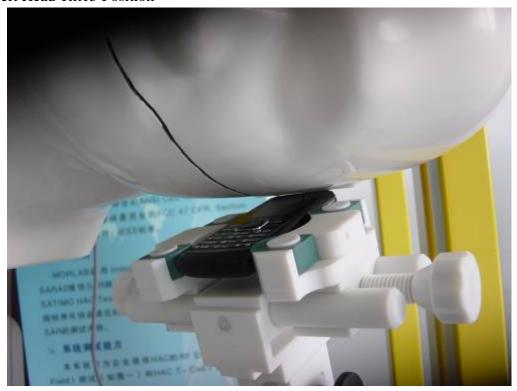


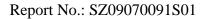
Annex B Photographs of the EUT

1 EUT Left Head Touch Cheek Position



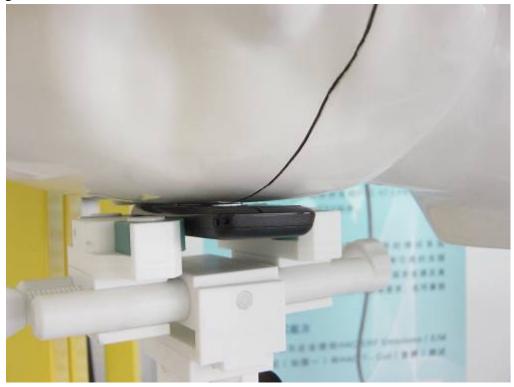
2 EUT Left Head Tilt15 Position





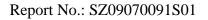


3 EUT Right Head Touch Cheek Position



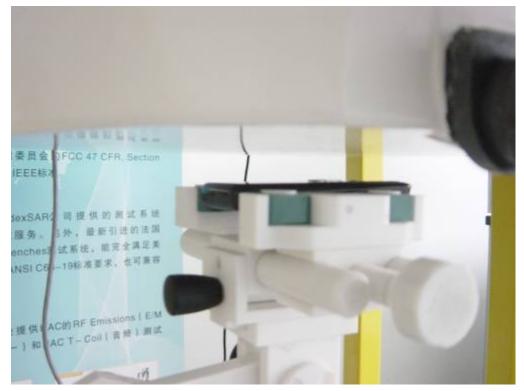
4 EUT Right Head Tilt15 Position

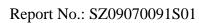






5 Side Position







Annex C Graph Test Results

TYPE 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 High Channel in GSM mode Measurement 10: Left Head with Cheek device position on High Channel in GSM mode Measurement 10: Left Head with Tilt device position on High 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 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 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 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 Measurement 17: Validation Plane with Body device position on High Channel in GSM mode Measurement 18: 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		BAND	<u>PARAMETERS</u>
position on High Channel in GSM mode (with GPRS) Measurement 18: Right Head with Cheek device position on Low Channel in GSM mode	TYPE	GSM850	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 GPRS) Measurement 18: 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
GSM	Middle Channel in GSM mode
<u>SSIVI</u>	Measurement 23: Right Head with Tilt device position on
1900	High Channel in GSM mode
1500	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 GPRS)
<u>l</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: 5/8/2009

Measurement duration: 7 minutes 51 seconds

A. Experimental conditions.

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

B. SAR Measurement Results

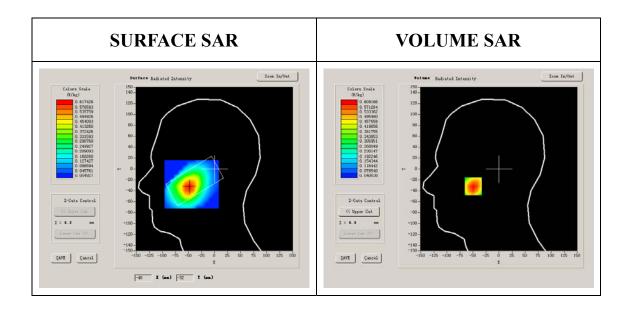
Lower Band SAR (Channel 128):

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





Conductivity (S/m)	0.866612
Variation (%)	-1.460000
Ambient Temperature:	22.1°C
Liquid Temperature:	22.0°C
Probe Serial Number:	SN_3708_EP80
Crest factor:	1:8



Maximum location: X=-49.00, Y=-32.00

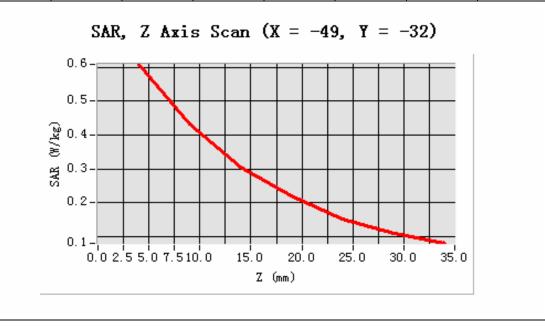
SAR 10g (W/Kg)	0.388327
SAR 1g (W/Kg)	0.583050

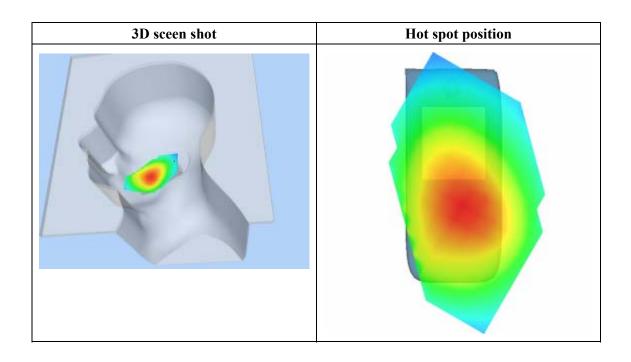




Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.6092	0.4325	0.3051	0.2203	0.1526	0.1097
(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: 5/8/2009

Measurement duration: 7 minutes 47 seconds

A. Experimental conditions.

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

B. SAR Measurement Results

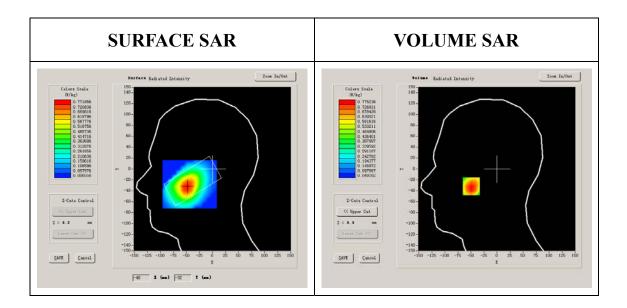
Middle Band SAR (Channel 190):

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





Conductivity (S/m)	0.888655		
Variation (%)	0.520000		
Ambient Temperature:	22.1°C		
Liquid Temperature:	22.0°C		
Probe Serial Number:	SN_3708_EP80		
Crest factor:	1:8		



Maximum location: X=-49.00, Y=-32.00

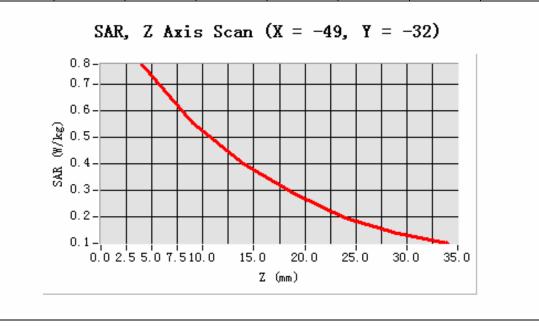
SAR 10g (W/Kg)	0.500355		
SAR 1g (W/Kg)	0.753514		

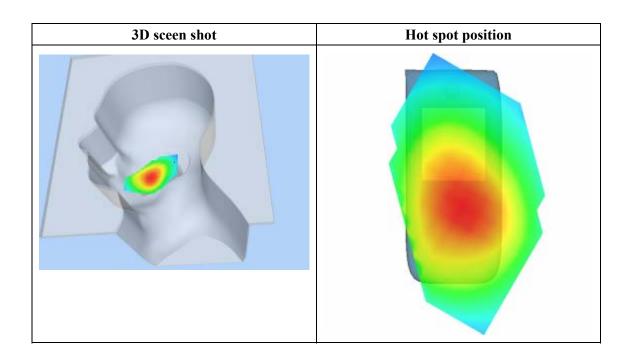




Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.7752	0.5529	0.4002	0.2859	0.1974	0.1386
(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: 5/8/2009

Measurement duration: 7 minutes 49 seconds

A. Experimental conditions.

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

B. SAR Measurement Results

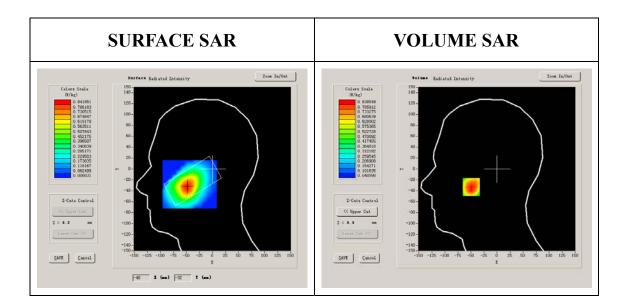
Higher Band SAR (Channel 251):

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





Conductivity (S/m)	0.894409		
Variation (%)	-0.420000		
Ambient Temperature:	22.1°C		
Liquid Temperature:	22.0°C		
Probe Serial Number:	SN_3708_EP80		
Crest factor:	1:8		



Maximum location: X=-49.00, Y=-33.00

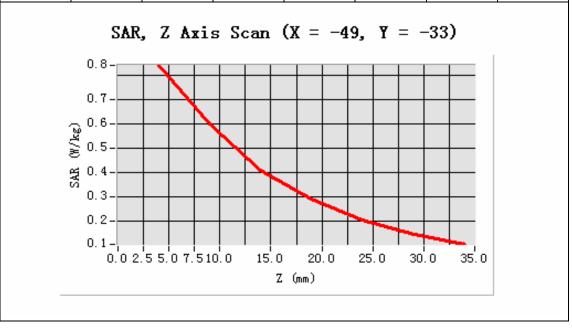
SAR 10g (W/Kg)	0.532554		
SAR 1g (W/Kg)	0.817108		

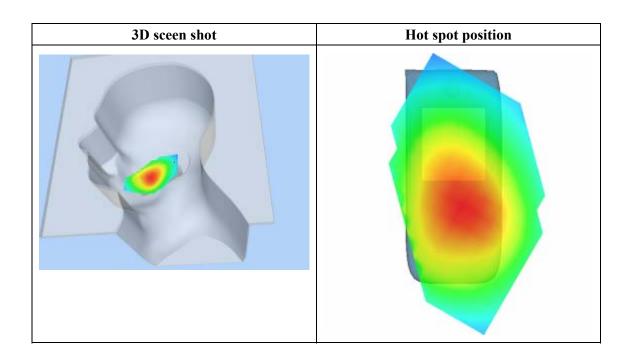




Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.8385	0.5979	0.4114	0.2934	0.2039	0.1461
(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: 5/8/2009

Measurement duration: 7 minutes 40 seconds

A. Experimental conditions.

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

B. SAR Measurement Results

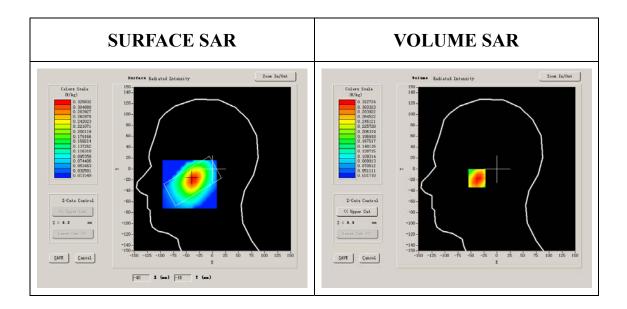
Lower Band SAR (Channel 128):

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



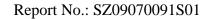


Conductivity (S/m)	0.866612	
Variation (%)	-1.580000	
Ambient Temperature:	22.1°C	
Liquid Temperature:	22.0°C	
Probe Serial Number:	SN_3708_EP80	
Crest factor:	1:8	



Maximum location: X=-38.00, Y=-17.00

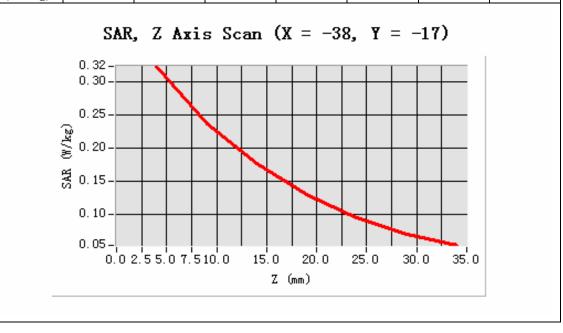
SAR 10g (W/Kg)	0.214450
SAR 1g (W/Kg)	0.312688

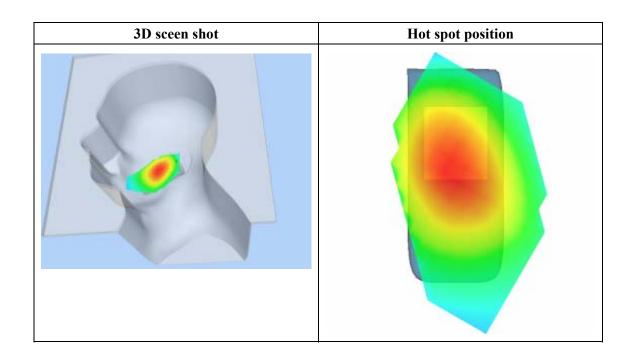




Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.3227	0.2366	0.1770	0.1300	0.0948	0.0709
(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: 5/8/2009

Measurement duration: 7 minutes 34 seconds

A. Experimental conditions.

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

B. SAR Measurement Results

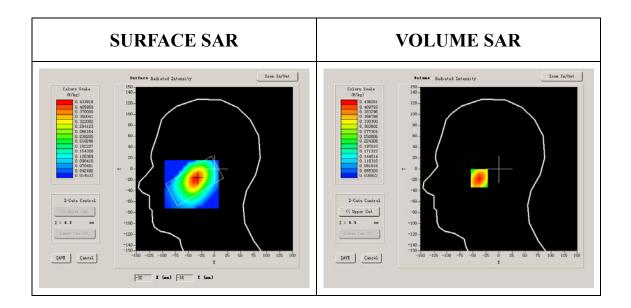
Middle Band SAR (Channel 190):

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





Conductivity (S/m)	0.888655	
Variation (%)	-1.380000	
Ambient Temperature:	22.1°C	
Liquid Temperature:	22.0°C	
Probe Serial Number:	SN_3708_EP80	
Crest factor:	1:8	



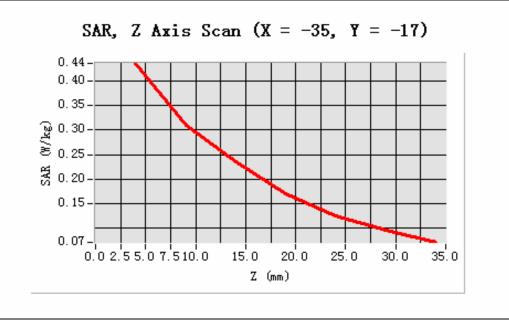
Maximum location: X=-35.00, Y=-17.00

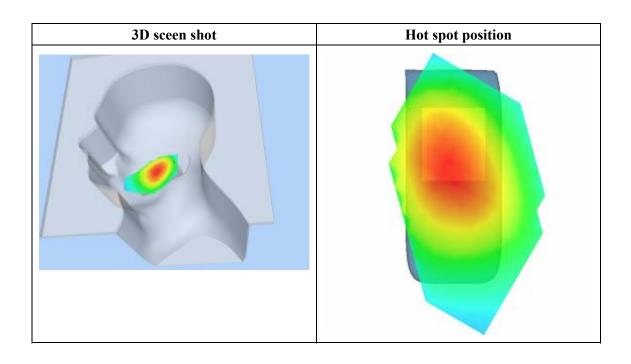
SAR 10g (W/Kg)	0.284082
SAR 1g (W/Kg)	0.416071





Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.4363	0.3090	0.2352	0.1694	0.1254	0.0948
(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: 5/8/2009

Measurement duration: 7 minutes 42 seconds

A. Experimental conditions.

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

B. SAR Measurement Results

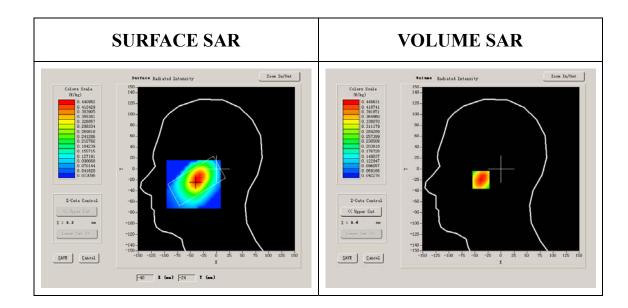
Higher Band SAR (Channel 251):

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





Conductivity (S/m)	0.894409	
Variation (%)	-1.540000	
Ambient Temperature:	22.1°C	
Liquid Temperature:	22.0°C	
Probe Serial Number:	SN_3708_EP80	
Crest factor:	1:8	



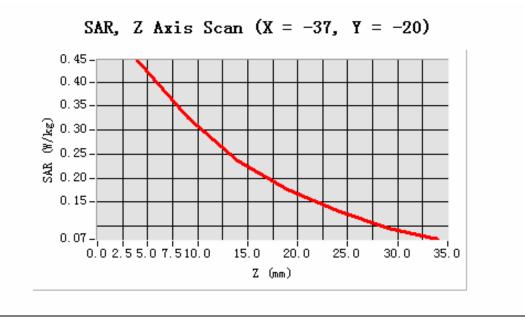
Maximum location: X=-37.00, Y=-20.00

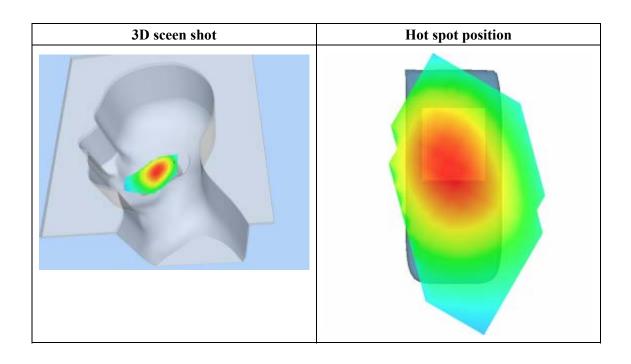
SAR 10g (W/Kg)	0.293602
SAR 1g (W/Kg)	0.429948





Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.4456	0.3250	0.2355	0.1764	0.1316	0.0961
(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: 5/8/2009

Measurement duration: 8 minutes 1 seconds

A. Experimental conditions.

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

B. SAR Measurement Results

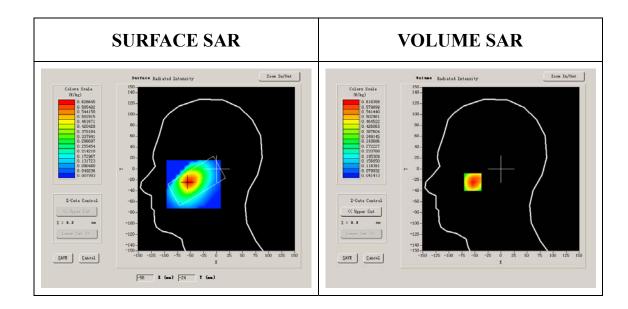
Lower Band SAR (Channel 128):

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





Conductivity (S/m)	0.866612	
Variation (%)	1.480000	
Ambient Temperature:	22.1°C	
Liquid Temperature:	22.0°C	
Probe Serial Number:	SN_3708_EP80	
Crest factor:	1:8	



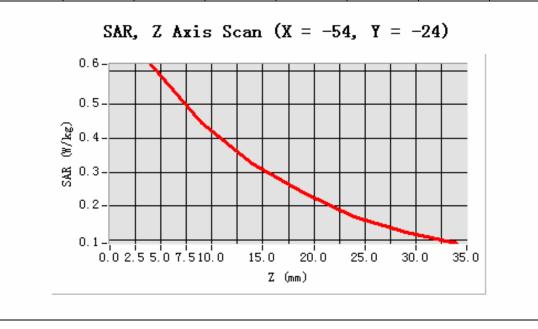
Maximum location: X=-54.00, Y=-24.00

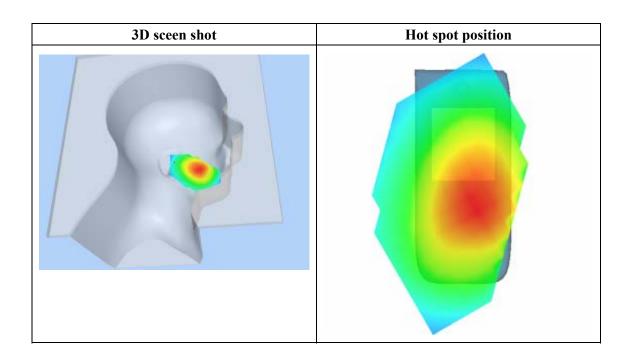
SAR 10g (W/Kg)	0.401964
SAR 1g (W/Kg)	0.589186





Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.6184	0.4459	0.3253	0.2405	0.1690	0.1240
(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: 5/8/2009

Measurement duration: 8 minutes 2 seconds

A. Experimental conditions.

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

B. SAR Measurement Results

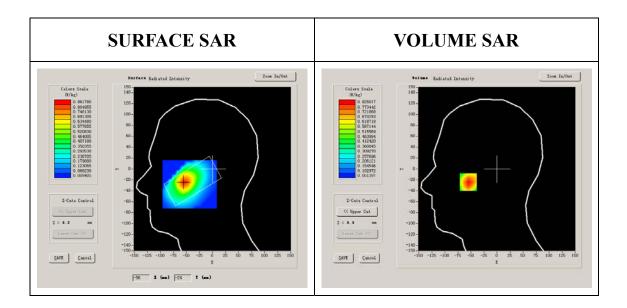
Middle Band SAR (Channel 190):

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



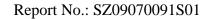


Conductivity (S/m)	0.888655		
Variation (%)	-3.210000		
Ambient Temperature:	22.1°C		
Liquid Temperature:	22.0°C		
Probe Serial Number:	SN_3708_EP80		
Crest factor:	1:8		



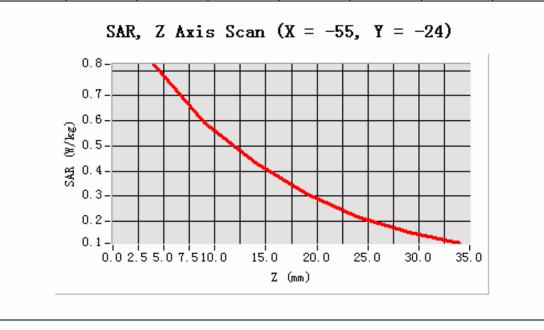
Maximum location: X=-55.00, Y=-24.00

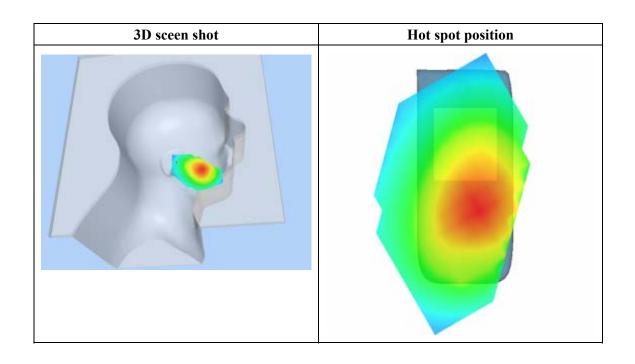
SAR 10g (W/Kg)	0.524044		
SAR 1g (W/Kg)	0.789413		





Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.8250	0.5924	0.4313	0.3090	0.2153	0.1572
(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: 5/8/2009

Measurement duration: 8 minutes 0 seconds

A. Experimental conditions.

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

B. SAR Measurement Results

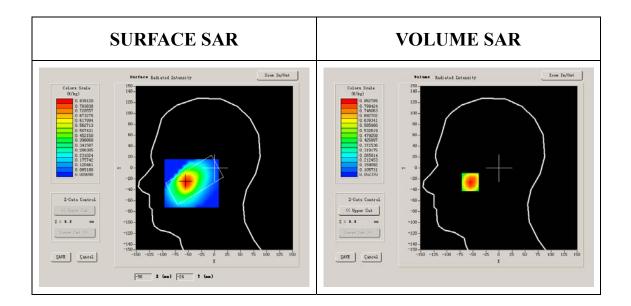
Higher Band SAR (Channel 251):

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





Conductivity (S/m)	0.894409		
Variation (%)	0.950000		
Ambient Temperature:	22.1°C		
Liquid Temperature:	22.0°C		
Probe Serial Number:	SN_3708_EP80		
Crest factor:	1:8		



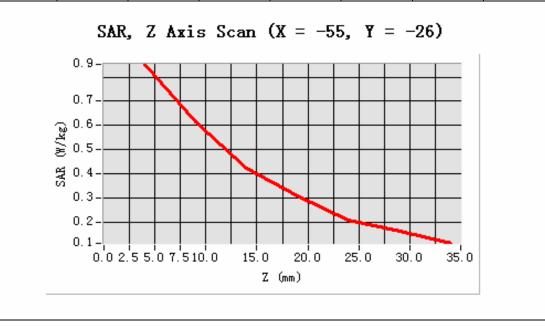
Maximum location: X=-55.00, Y=-26.00

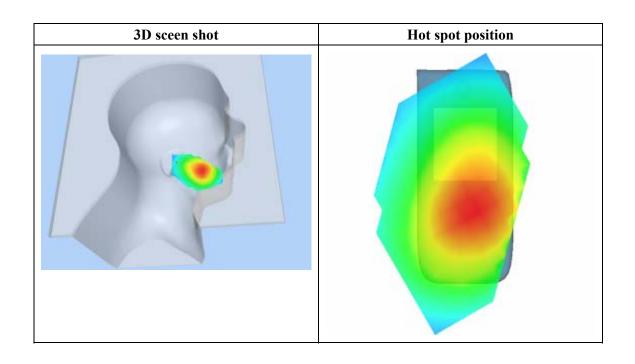
SAR 10g (W/Kg)	0.540161		
SAR 1g (W/Kg)	0.812657		





Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.8528	0.6128	0.4230	0.3105	0.2090	0.1603
(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: 5/8/2009

Measurement duration: 7 minutes 35 seconds

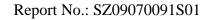
A. Experimental conditions.

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

B. SAR Measurement Results

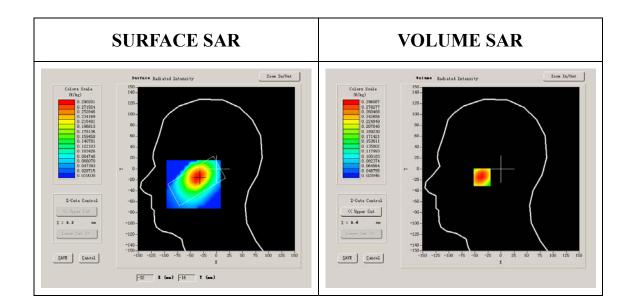
Lower Band SAR (Channel 128):

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



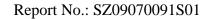


Conductivity (S/m)	0.866612
Variation (%)	0.340000
Ambient Temperature:	22.1°C
Liquid Temperature:	22.0°C
Probe Serial Number:	SN_3708_EP80
Crest factor:	1:8



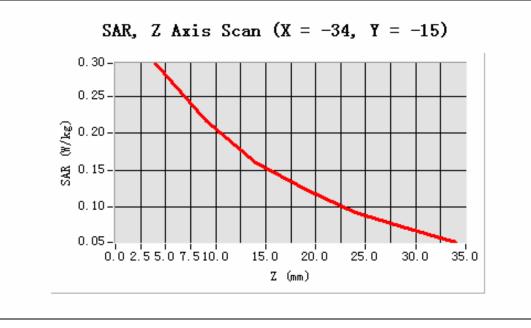
Maximum location: X=-34.00, Y=-15.00

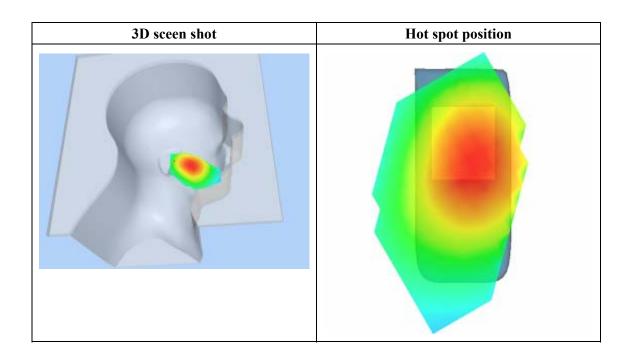
SAR 10g (W/Kg)	0.199445
SAR 1g (W/Kg)	0.287770





Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.2961	0.2171	0.1606	0.1229	0.0923	0.0700
(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: 5/8/2009

Measurement duration: 7 minutes 34 seconds

A. Experimental conditions.

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

B. SAR Measurement Results

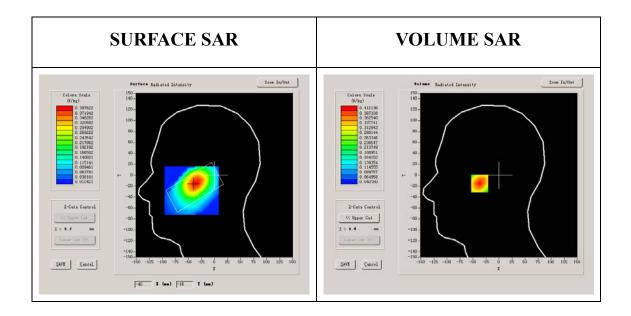
Middle Band SAR (Channel 190):

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





Conductivity (S/m)	0.888655
Variation (%)	-0.590000
Ambient Temperature:	22.1°C
Liquid Temperature:	22.0°C
Probe Serial Number:	SN_3708_EP80
Crest factor:	1:8



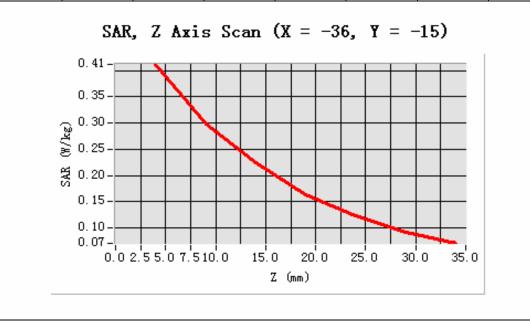
Maximum location: X=-36.00, Y=-15.00

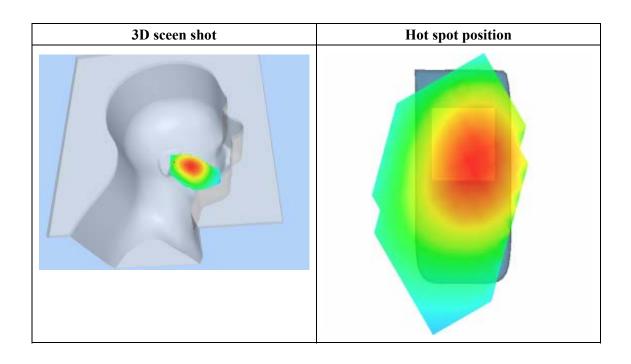
SAR 10g (W/Kg)	0.269767
SAR 1g (W/Kg)	0.393195





Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.4121	0.2991	0.2238	0.1644	0.1239	0.0912
(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: 5/8/2009

Measurement duration: 7 minutes 38 seconds

A. Experimental conditions.

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

B. SAR Measurement Results

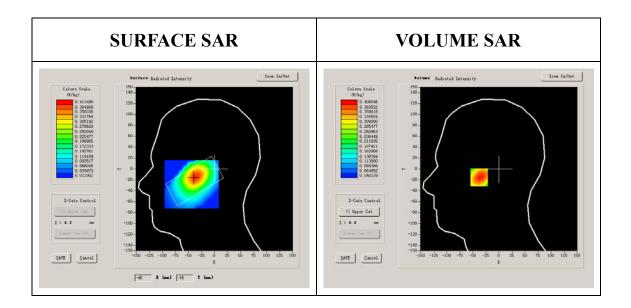
Higher Band SAR (Channel 251):

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





Conductivity (S/m)	0.894409
Variation (%)	0.230000
Ambient Temperature:	22.1°C
Liquid Temperature:	22.0°C
Probe Serial Number:	SN_3708_EP80
Crest factor:	1:8



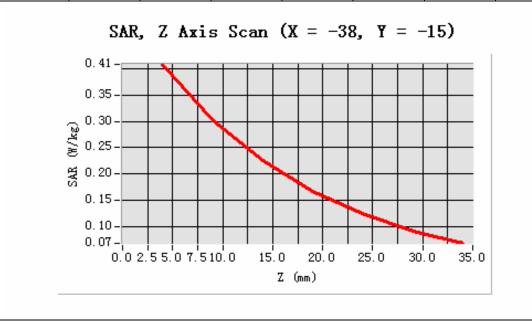
Maximum location: X=-38.00, Y=-15.00

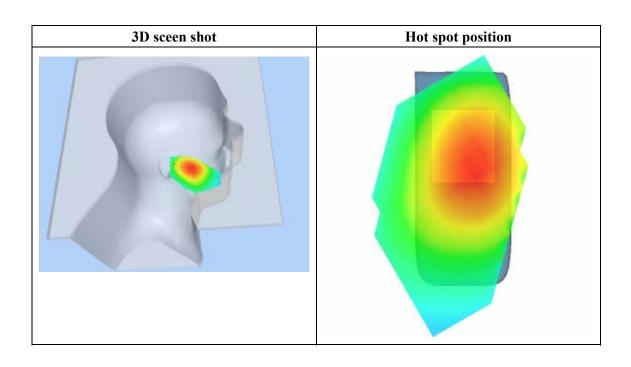
SAR 10g (W/Kg)	0.273034		
SAR 1g (W/Kg)	0.392804		

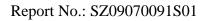




Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.4080	0.3006	0.2255	0.1668	0.1246	0.0912
(W/Kg)							









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: 5/8/2009

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	GSM			

B. SAR Measurement Results

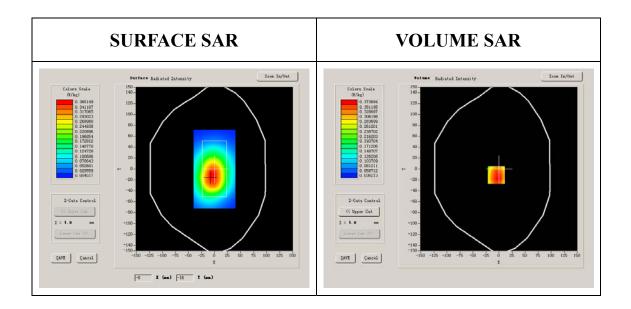
Lower Band SAR (Channel 128):

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





Conductivity (S/m)	0.974596		
Variation (%)	-0.650000		
Ambient Temperature:	22.1°C		
Liquid Temperature:	22.0°C		
Probe Serial Number:	SN_3708_EP80		
Crest factor:	1:8		



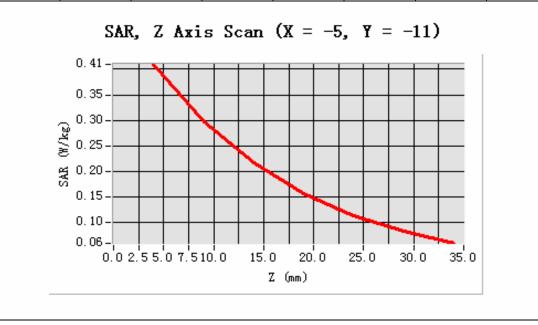
Maximum location: X=-5.00, Y=-11.00

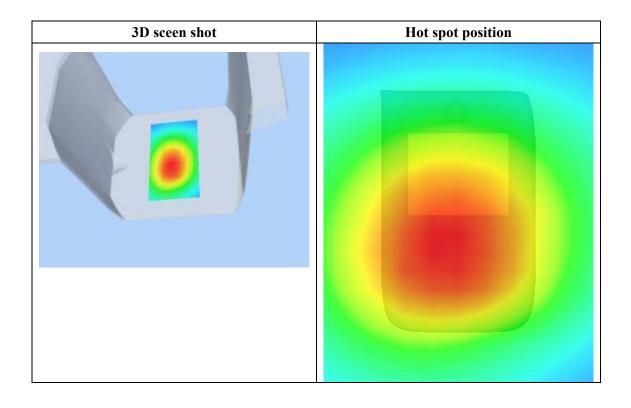
SAR 10g (W/Kg)	0.278833		
SAR 1g (W/Kg)	0.405882		

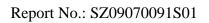




Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.4097	0.2976	0.2176	0.1562	0.1147	0.0828
(W/Kg)							









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: 5/8/2009

Measurement duration: 9 minutes 5 seconds

A. Experimental conditions.

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

B. SAR Measurement Results

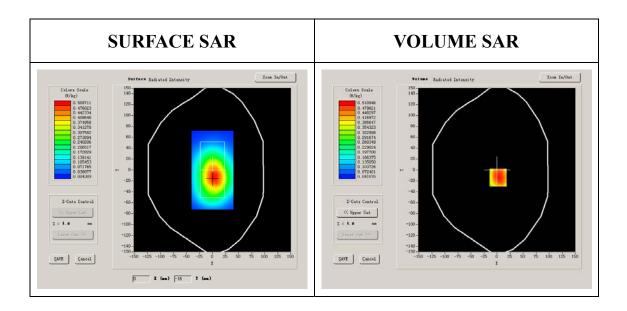
Middle Band SAR (Channel 190):

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



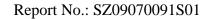


Conductivity (S/m)	1.009033		
Variation (%)	-2.090000		
Ambient Temperature:	22.1°C		
Liquid Temperature:	22.0°C		
Probe Serial Number:	SN_3708_EP80		
Crest factor:	1:8		



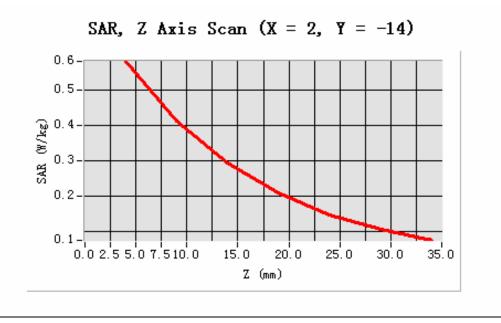
Maximum location: X=2.00, Y=-14.00

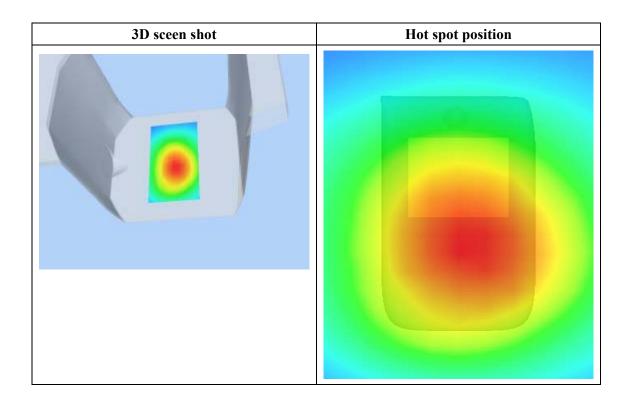
SAR 10g (W/Kg)	0.380923		
SAR 1g (W/Kg)	0.559534		

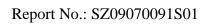




Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.5802	0.4130	0.2945	0.2090	0.1474	0.1078
(W/Kg)							









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: 5/8/2009

Measurement duration: 9 minutes 6 seconds

A. Experimental conditions.

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

B. SAR Measurement Results

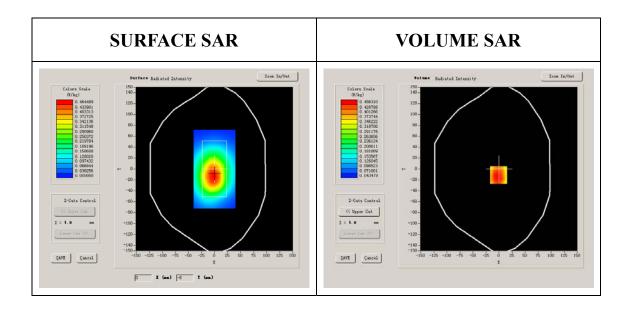
Higher Band SAR (Channel 251):

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





Conductivity (S/m)	1.005962	
Variation (%)	-2.360000	
Ambient Temperature:	22.1°C	
Liquid Temperature:	22.0°C	
Probe Serial Number:	SN_3708_EP80	
Crest factor:	1:8	



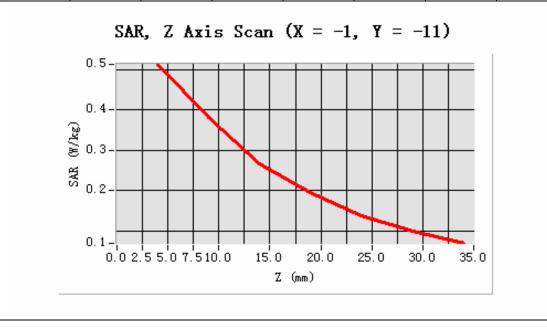
Maximum location: X=-1.00, Y=-11.00

SAR 10g (W/Kg)	0.344894	
SAR 1g (W/Kg)	0.505002	

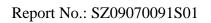




Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.5132	0.3816	0.2662	0.1950	0.1374	0.1008
(W/Kg)							









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: 5/8/2009

Measurement duration: 9 minutes 6 seconds

A. Experimental conditions.

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

B. SAR Measurement Results

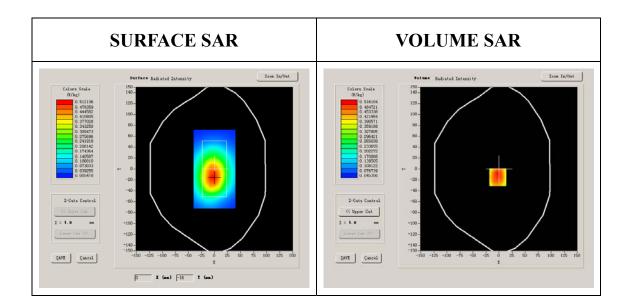
Middle Band SAR (Channel 190):

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





Conductivity (S/m)	1.009033
Variation (%)	-0.820000
Ambient Temperature:	22.1°C
Liquid Temperature:	22.0°C
Probe Serial Number:	SN_3708_EP80
Crest factor:	1:8



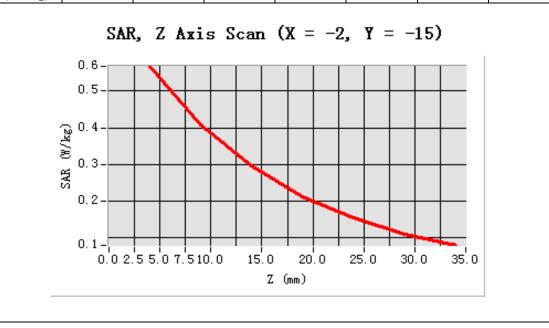
Maximum location: X=-2.00, Y=-15.00

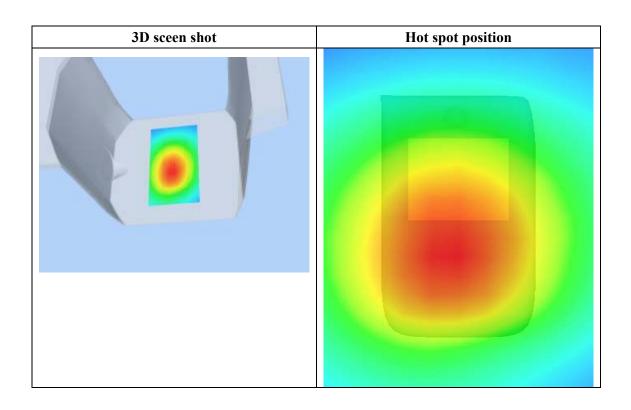
SAR 10g (W/Kg)	0.342314	
SAR 1g (W/Kg)	0.51657	





Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.5671	0.4075	0.2976	0.2126	0.1536	0.1089
(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: 6/8/2009

Measurement duration: 8 minutes 2 seconds

A. Experimental conditions.

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

B. SAR Measurement Results

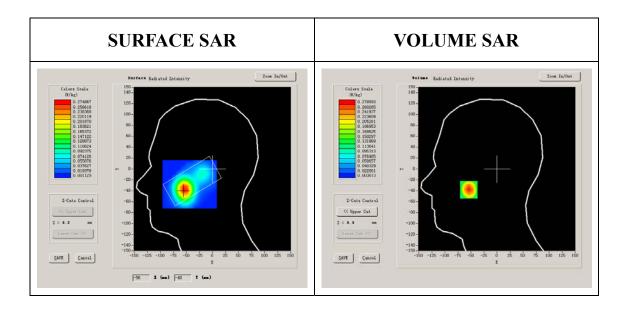
Lower Band SAR (Channel 512):

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



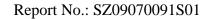


Conductivity (S/m)	1.335397
Variation (%)	-0.080000
Ambient Temperature:	22.1°C
Liquid Temperature:	22.0°C
Probe Serial Number:	SN_3708_EP80
Crest factor:	1:8



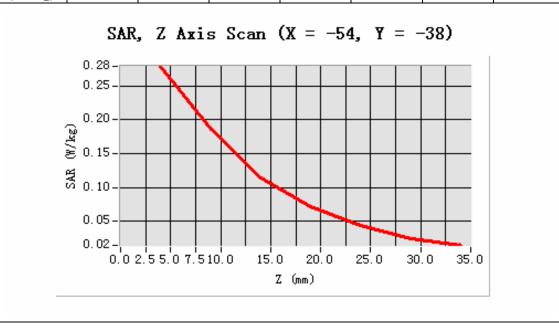
Maximum location: X=-54.00, Y=-38.00

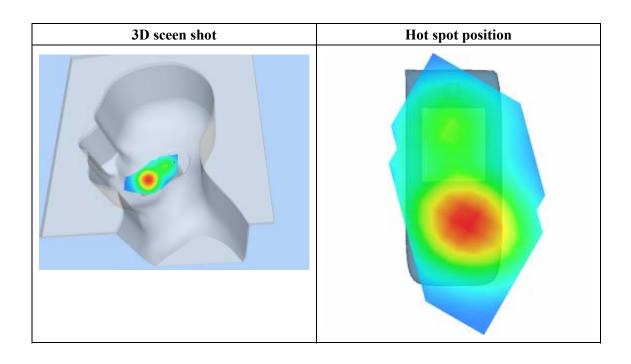
SAR 10g (W/Kg)	0.150729
SAR 1g (W/Kg)	0.260550





Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.2786	0.1863	0.1150	0.0716	0.0444	0.0254
(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: 5/8/2009

Measurement duration: 9 minutes 5 seconds

A. Experimental conditions.

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

B. SAR Measurement Results

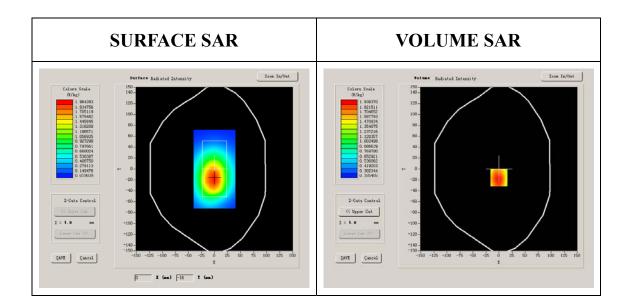
Middle Band SAR (Channel 190):

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



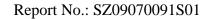


Conductivity (S/m)	1.009033
Variation (%)	-0.670000
Ambient Temperature:	22.1°C
Liquid Temperature:	22.0°C
Probe Serial Number:	SN_3708_EP80
Crest factor:	1:2



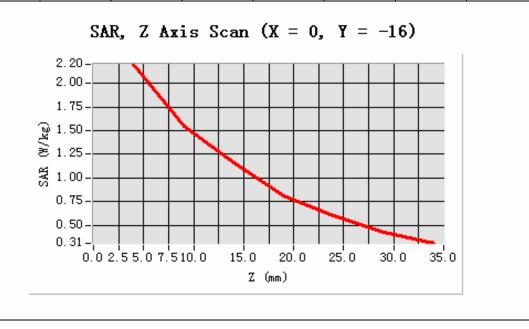
Maximum location: X=0.00, Y=-16.00

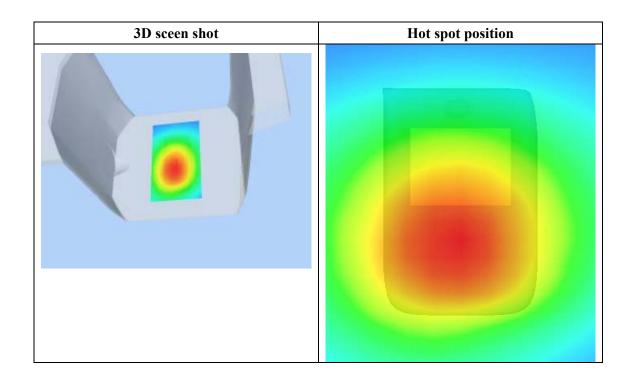
SAR 10g (W/Kg)	0.557263
SAR 1g (W/Kg)	1.131829





Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	2.2009	1.5501	1.1670	0.8104	0.6006	0.4280
(W/Kg)							







Report No.: SZ09070091S01

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: 6/8/2009

Measurement duration: 8 minutes 4 seconds

A. Experimental conditions.

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

B. SAR Measurement Results

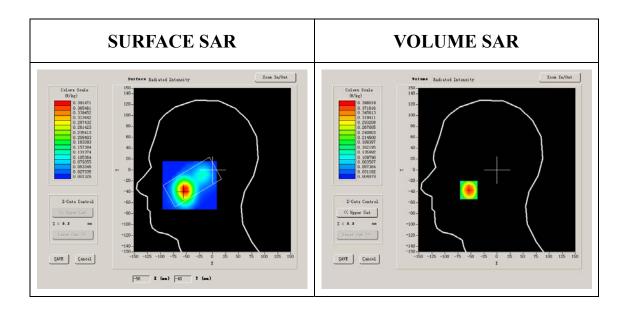
Middle Band SAR (Channel 661):

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





Conductivity (S/m)	1.436111
Variation (%)	-0.470000
Ambient Temperature:	22.1°C
Liquid Temperature:	22.0°C
Probe Serial Number:	SN_3708_EP80
Crest factor:	1:8



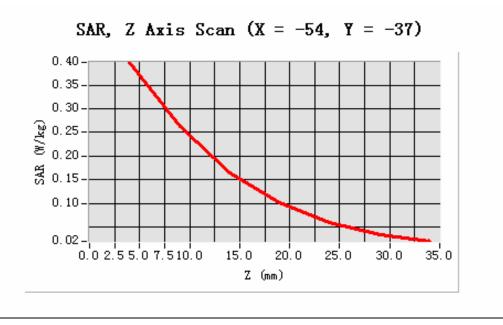
Maximum location: X=-54.00, Y=-37.00

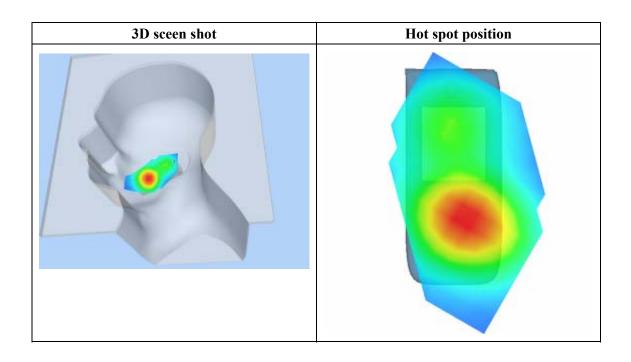
SAR 10g (W/Kg)	0.215802
SAR 1g (W/Kg)	0.375255





Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.3980	0.2619	0.1650	0.1016	0.0607	0.0350
(W/Kg)							







Report No.: SZ09070091S01

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: 6/8/2009

Measurement duration: 8 minutes 0 seconds

A. Experimental conditions.

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

B. SAR Measurement Results

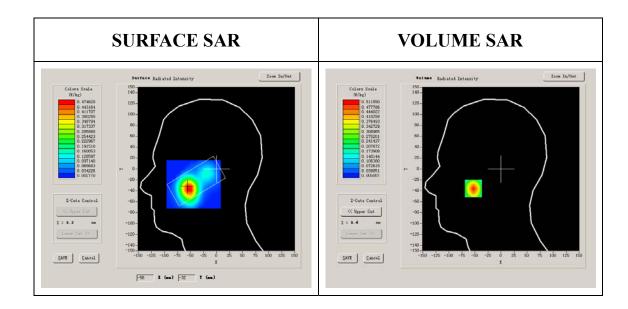
Higher Band SAR (Channel 810):

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





Conductivity (S/m)	1.395905		
Variation (%)	-0.850000		
Ambient Temperature:	22.1°C		
Liquid Temperature:	22.0°C		
Probe Serial Number:	SN_3708_EP80		
Crest factor:	1:8		



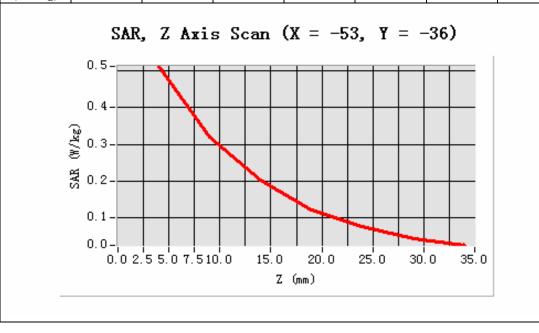
Maximum location: X=-53.00, Y=-36.00

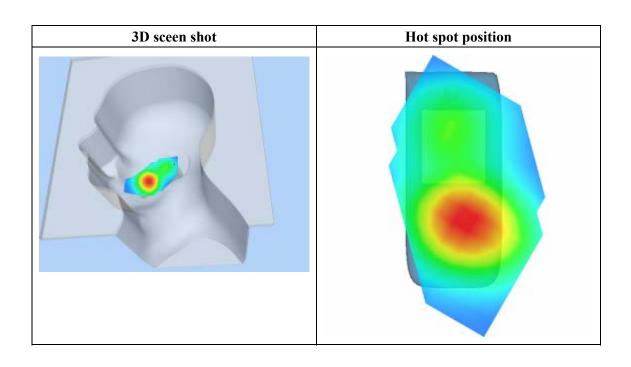
SAR 10g (W/Kg)	0.268677		
SAR 1g (W/Kg)	0.475390		

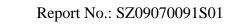




Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.5115	0.3188	0.2039	0.1227	0.0761	0.0427
(W/Kg)							









Type: Phone measurement (Complete)

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

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

Date of measurement: 6/8/2009

Measurement duration: 7 minutes 25 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

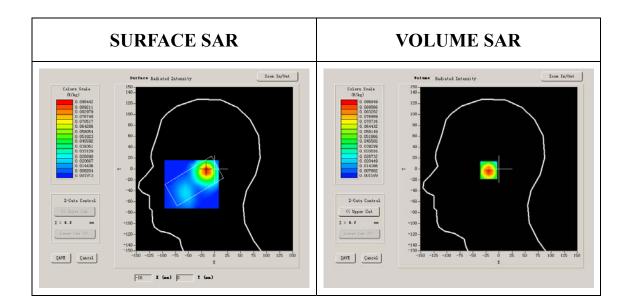
Lower Band SAR (Channel 512):

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





Conductivity (S/m)	1.335397		
Variation (%)	-0.910000		
Ambient Temperature:	22.1°C		
Liquid Temperature:	22.0°C		
Probe Serial Number:	SN_3708_EP80		
Crest factor:	1:8		



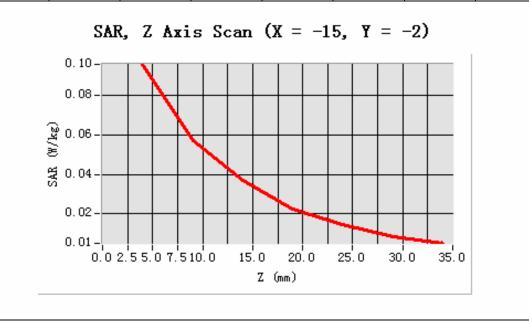
Maximum location: X=-15.00, Y=-2.00

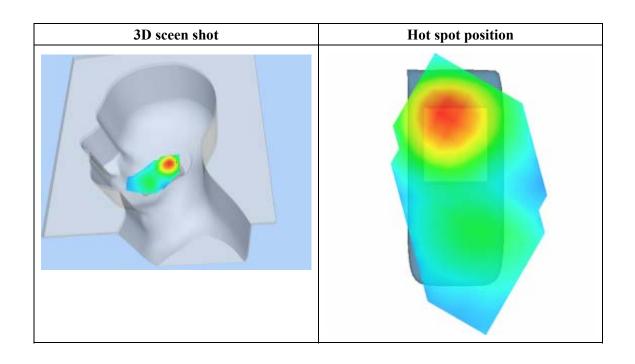
SAR 10g (W/Kg)	0.051964		
SAR 1g (W/Kg)	0.091367		

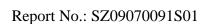




Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.0958	0.0572	0.0372	0.0225	0.0143	0.0082
(W/Kg)							









Type: Phone measurement (Complete)

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

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

Date of measurement: 6/8/2009

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	Middle		
Signal	GSM		

B. SAR Measurement Results

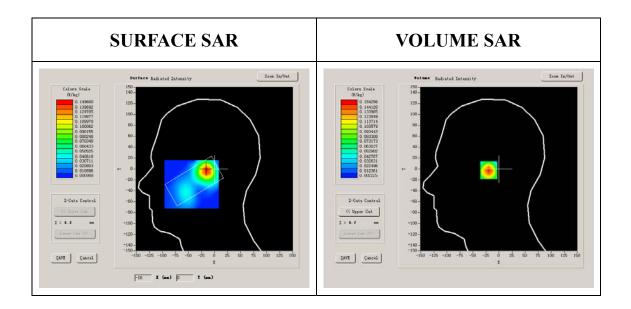
Middle Band SAR (Channel 661):

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



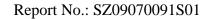


Conductivity (S/m)	1.436111
Variation (%)	-0.390000
Ambient Temperature:	22.1°C
Liquid Temperature:	22.0°C
Probe Serial Number:	SN_3708_EP80
Crest factor:	1:8



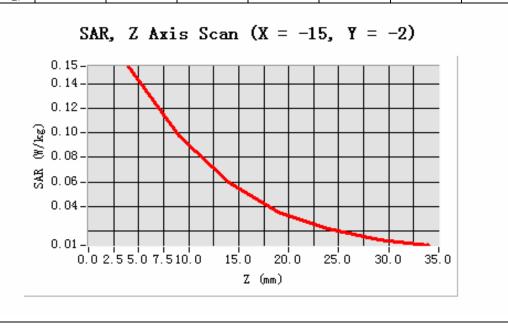
Maximum location: X=-15.00, Y=-2.00

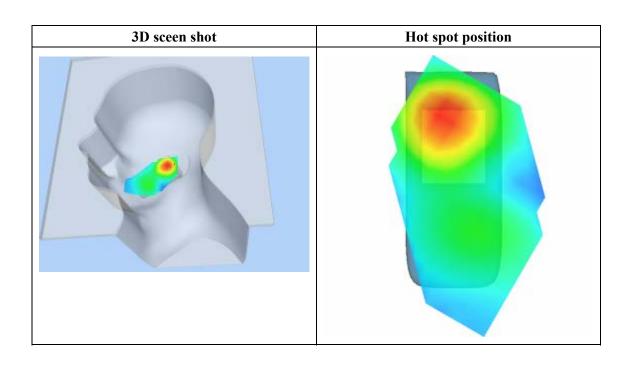
SAR 10g (W/Kg)	0.081080
SAR 1g (W/Kg)	0.144128

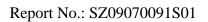




Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.1543	0.0970	0.0592	0.0350	0.0217	0.0132
(W/Kg)							









Type: Phone measurement (Complete)

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

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

Date of measurement: 6/8/2009

Measurement duration: 7 minutes 25 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

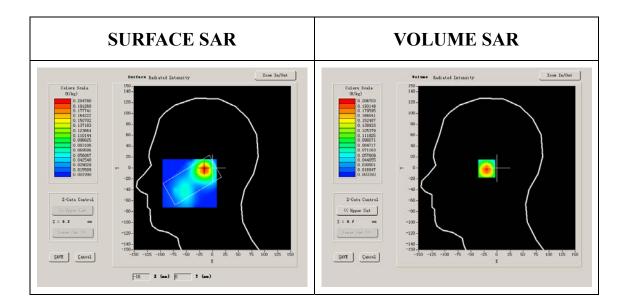
Higher Band SAR (Channel 810):

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





Conductivity (S/m)	1.395905
Variation (%)	-1.290000
Ambient Temperature:	22.1°C
Liquid Temperature:	22.0°C
Probe Serial Number:	SN_3708_EP80
Crest factor:	1:8



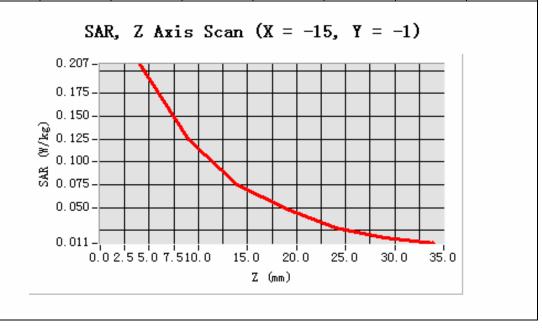
Maximum location: X=-15.00, Y=-1.00

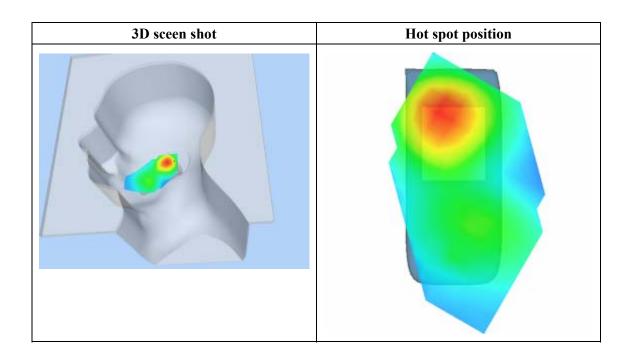
SAR 10g (W/Kg)	0.107883
SAR 1g (W/Kg)	0.194168





Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.2067	0.1241	0.0753	0.0478	0.0281	0.0174
(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: 5/8/2009

Measurement duration: 8 minutes 2 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

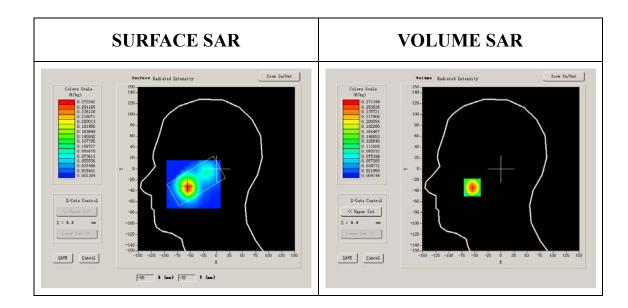
Lower Band SAR (Channel 512):

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



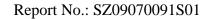


Conductivity (S/m)	1.335397
Variation (%)	0.110000
Ambient Temperature:	22.1°C
Liquid Temperature:	22.0°C
Probe Serial Number:	SN_3708_EP80
Crest factor:	1:8



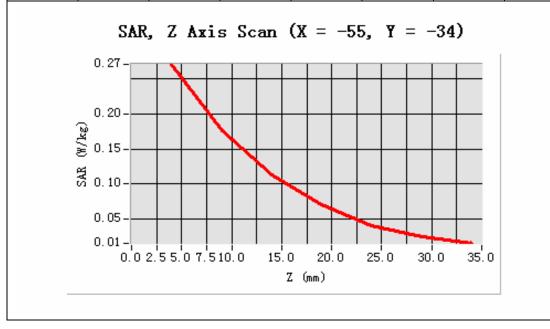
Maximum location: X=-55.00, Y=-34.00

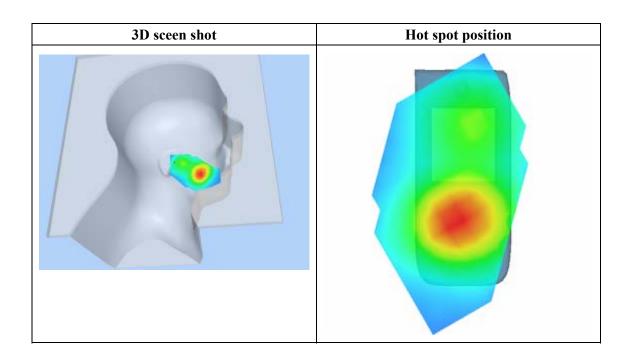
SAR 10g (W/Kg)	0.143909
SAR 1g (W/Kg)	0.253577

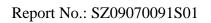




Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.2713	0.1760	0.1125	0.0701	0.0408	0.0240
(W/Kg)							









Type: Phone measurement (Complete)

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

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

Date of measurement: 5/8/2009

Measurement duration: 8 minutes 3 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

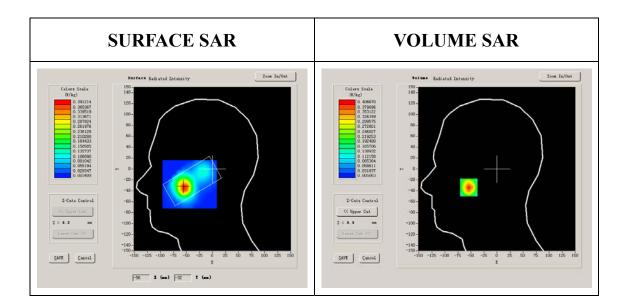
Middle Band SAR (Channel 661):

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





Conductivity (S/m)	1.436111		
Variation (%)	-0.390000		
Ambient Temperature:	22.1°C		
Liquid Temperature:	22.0°C		
Probe Serial Number:	SN_3708_EP80		
Crest factor:	1:8		



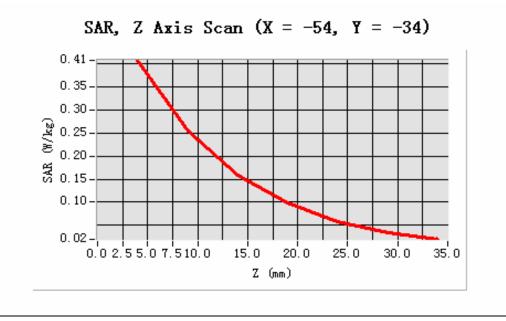
Maximum location: X=-54.00, Y=-34.00

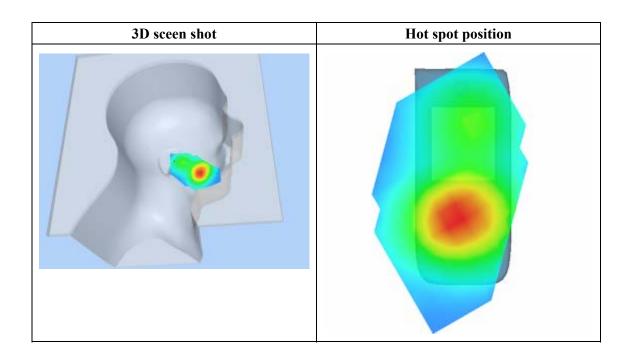
SAR 10g (W/Kg)	0.207896
SAR 1g (W/Kg)	0.377266

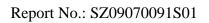




Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.4067	0.2540	0.1584	0.0988	0.0585	0.0352
(W/Kg)							









Type: Phone measurement (Complete)

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

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

Date of measurement: 5/8/2009

Measurement duration: 8 minutes 2 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

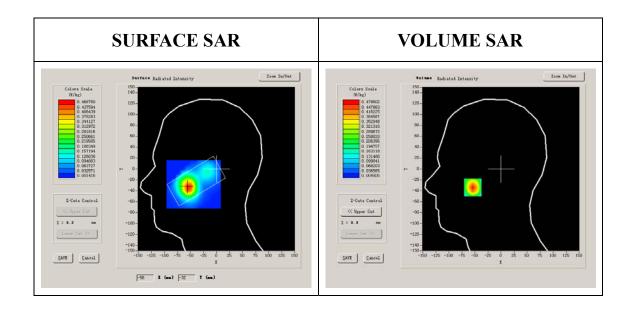
Higher Band SAR (Channel 810):

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



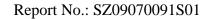


Conductivity (S/m)	1.395905		
Variation (%) -1.250000			
Ambient Temperature:	22.1°C		
Liquid Temperature:	22.0°C		
Probe Serial Number:	SN_3708_EP80		
Crest factor:	1:8		



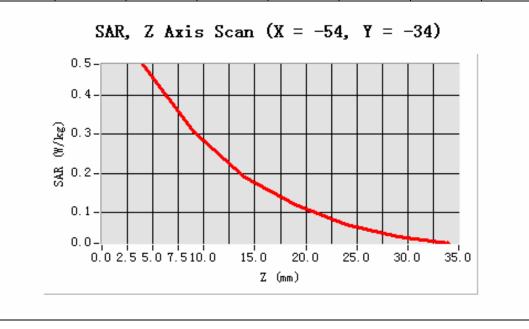
Maximum location: X=-54.00, Y=-34.00

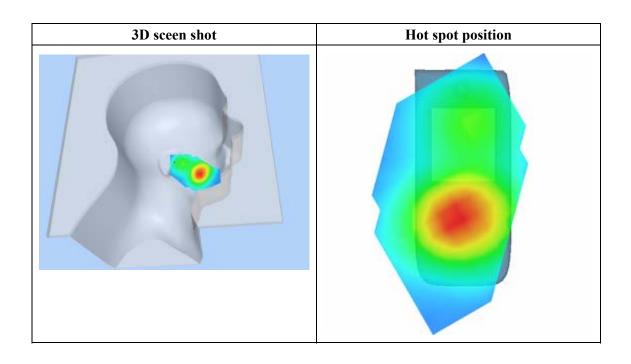
SAR 10g (W/Kg)	0.249563
SAR 1g (W/Kg)	0.447607

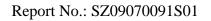




Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.4795	0.3059	0.1906	0.1212	0.0694	0.0393
(W/Kg)							









Type: Phone measurement (Complete)

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

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

Date of measurement: 5/8/2009

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	Low
Signal	GSM

B. SAR Measurement Results

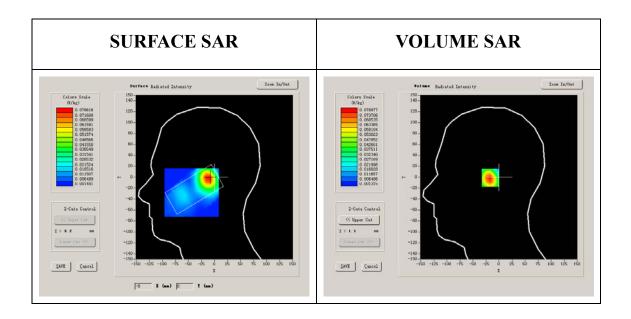
Lower Band SAR (Channel 512):

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





Conductivity (S/m)	1.335397		
Variation (%)	-3.080000		
Ambient Temperature:	22.1°C		
Liquid Temperature:	22.0°C		
Probe Serial Number:	SN_3708_EP80		
Crest factor:	1:8		



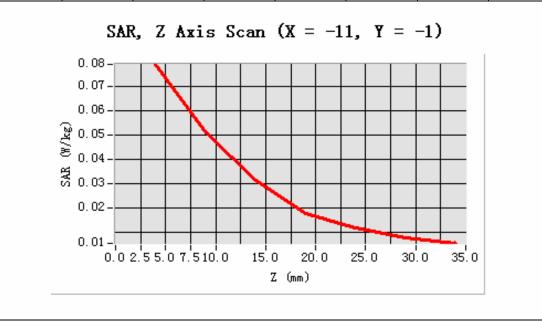
Maximum location: X=-11.00, Y=-1.00

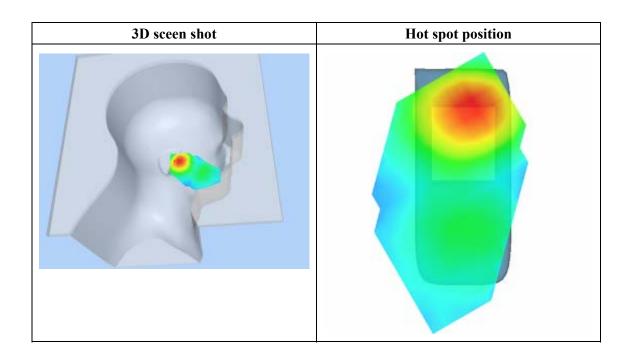
SAR 10g (W/Kg)	0.042551	
SAR 1g (W/Kg)	0.074222	

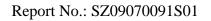




Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.0789	0.0509	0.0315	0.0177	0.0120	0.0079
(W/Kg)							









Type: Phone measurement (Complete)

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

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

Date of measurement: 5/8/2009

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

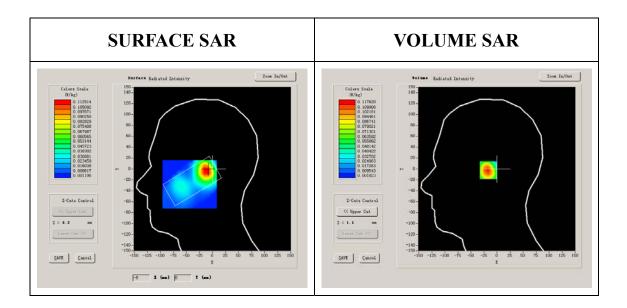
Middle Band SAR (Channel 661):

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



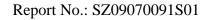


Conductivity (S/m)	1.436111
Variation (%)	-0.250000
Ambient Temperature:	22.1°C
Liquid Temperature:	22.0°C
Probe Serial Number:	SN_3708_EP80
Crest factor:	1:8



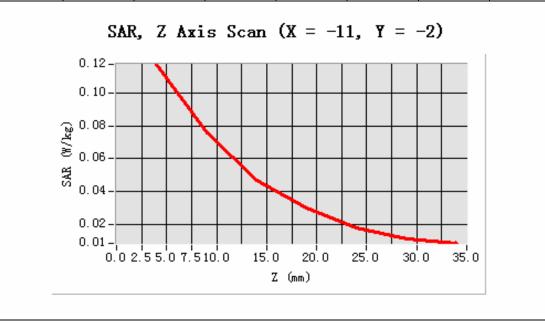
Maximum location: X=-11.00, Y=-2.00

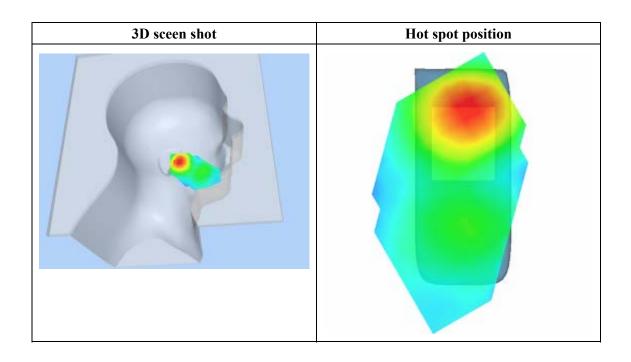
SAR 10g (W/Kg)	0.064585	
SAR 1g (W/Kg)	0.111707	





Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.1176	0.0759	0.0470	0.0296	0.0178	0.0110
(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: 5/8/2009

Measurement duration: 7 minutes 27 seconds

A. Experimental conditions.

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

B. SAR Measurement Results

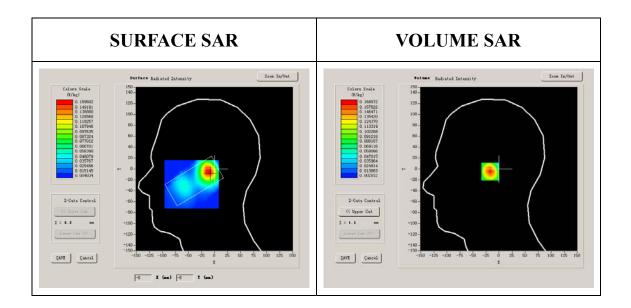
Higher Band SAR (Channel 810):

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





Conductivity (S/m)	1.395905
Variation (%)	-0.270000
Ambient Temperature:	22.1°C
Liquid Temperature:	22.0°C
Probe Serial Number:	SN_3708_EP80
Crest factor:	1:8



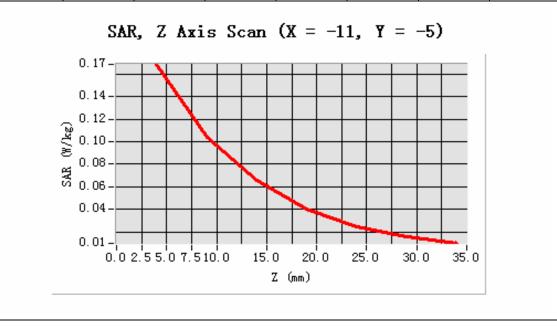
Maximum location: X=-11.00, Y=-5.00

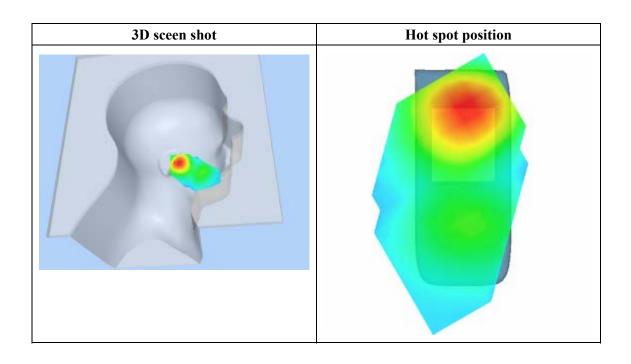
SAR 10g (W/Kg)	0.090311
SAR 1g (W/Kg)	0.157735





Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.1686	0.1038	0.0659	0.0408	0.0243	0.0161
(W/Kg)							







Report No.: SZ09070091S01

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: 5/8/2009

Measurement duration: 9 minutes 7 seconds

A. Experimental conditions.

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

B. SAR Measurement Results

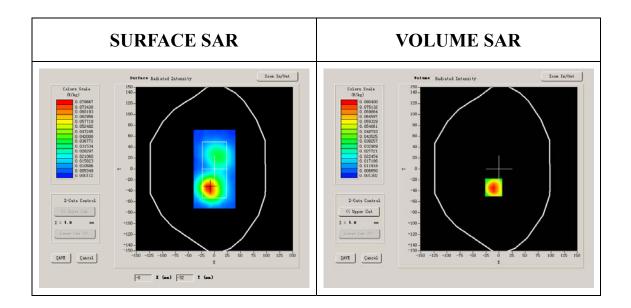
Lower Band SAR (Channel 512):

Frequency (MHz)	1850.199951
Relative permittivity (real part)	39.929001
Relative permittivity	12.000000





Conductivity (S/m)	1.233467
Variation (%)	0.600000
Ambient Temperature:	22.1°C
Liquid Temperature:	22.0°C
Probe Serial Number:	SN_3708_EP80
Crest factor:	1:8



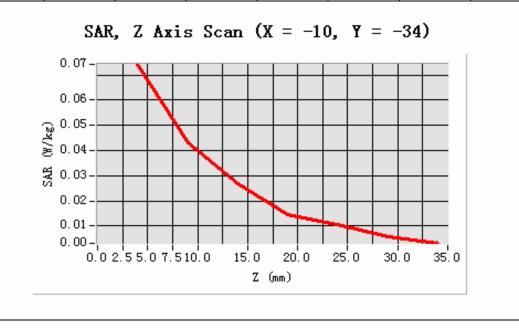
Maximum location: X=-10.00, Y=-34.00

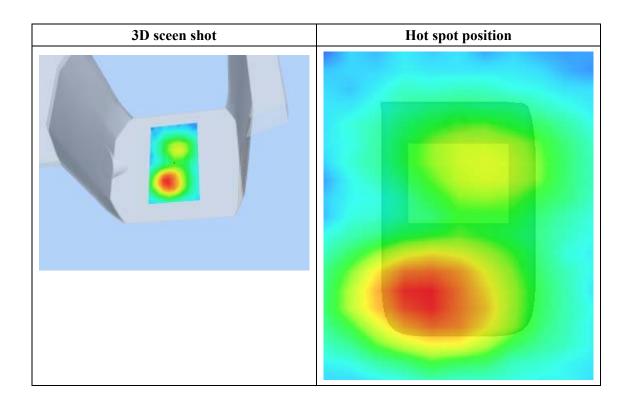
SAR 10g (W/Kg)	0.040229
SAR 1g (W/Kg)	0.071212

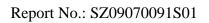




Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.0743	0.0431	0.0268	0.0146	0.0108	0.0059
(W/Kg)							









Type: Phone measurement (Complete)

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

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

Date of measurement: 5/8/2009

Measurement duration: 9 minutes 10 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

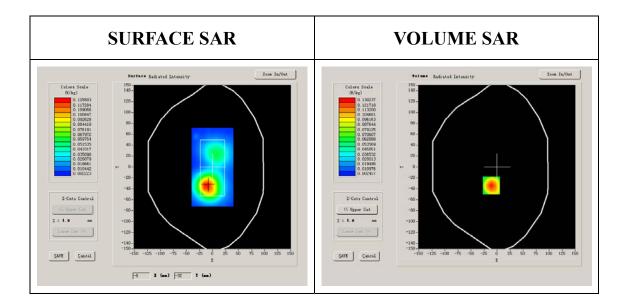
Middle Band SAR (Channel 661):

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





Conductivity (S/m)	1.573978
Variation (%)	0.340000
Ambient Temperature:	22.1°C
Liquid Temperature:	22.0°C
Probe Serial Number:	SN_3708_EP80
Crest factor:	1:8



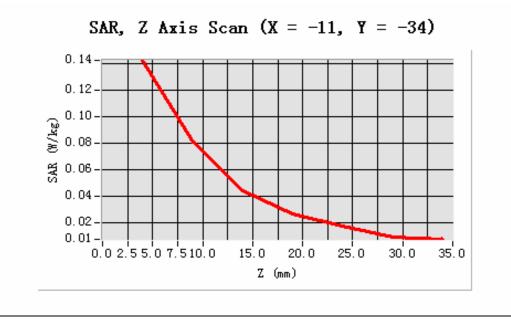
Maximum location: X=-11.00, Y=-34.00

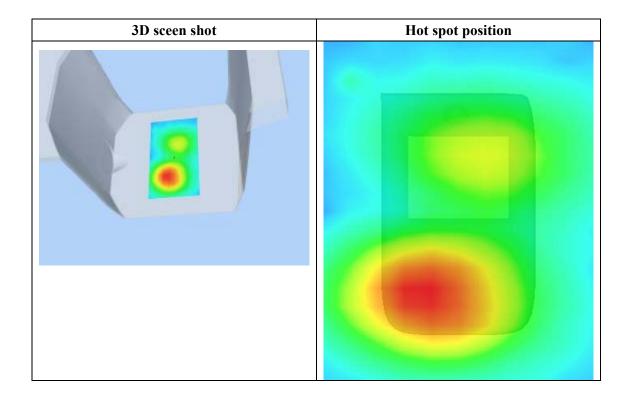
SAR 10g (W/Kg)	0.075884
SAR 1g (W/Kg)	0.135665

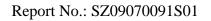




Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.1427	0.0804	0.0438	0.0265	0.0171	0.0088
(W/Kg)							









Type: Phone measurement (Complete)

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

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

Date of measurement: 5/8/2009

Measurement duration: 9 minutes 7 seconds

A. Experimental conditions.

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

B. SAR Measurement Results

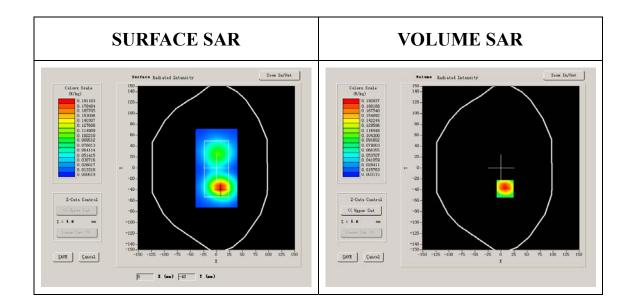
Higher Band SAR (Channel 810):

Frequency (MHz)	1909.800049
Relative permittivity (real part)	51.540001
Relative permittivity	12.000000





Conductivity (S/m)	1.273200		
Variation (%)	-1.230000		
Ambient Temperature:	22.1°C		
Liquid Temperature:	22.0°C		
Probe Serial Number:	SN_3708_EP80		
Crest factor:	1:8		



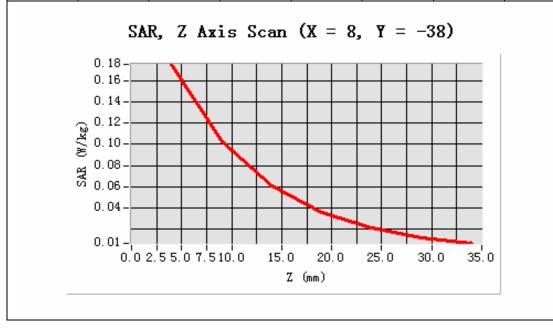
Maximum location: X=8.00, Y=-38.00

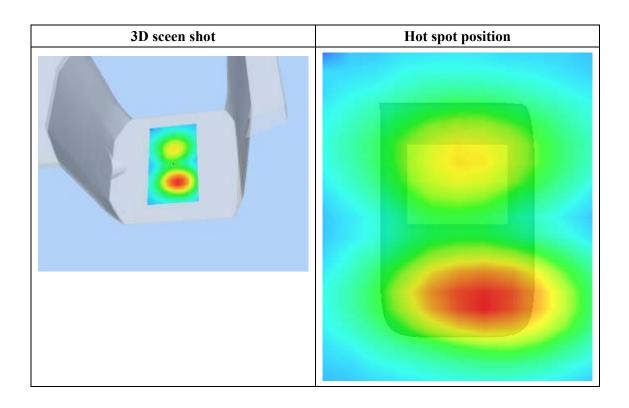
SAR 10g (W/Kg)	0.095405		
SAR 1g (W/Kg)	0.170349		

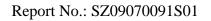




Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.1759	0.1025	0.0610	0.0354	0.0208	0.0116
(W/Kg)							









Type: Phone measurement (Complete)

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

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

Date of measurement: 5/8/2009

Measurement duration: 9 minutes 7 seconds

A. Experimental conditions.

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

B. SAR Measurement Results

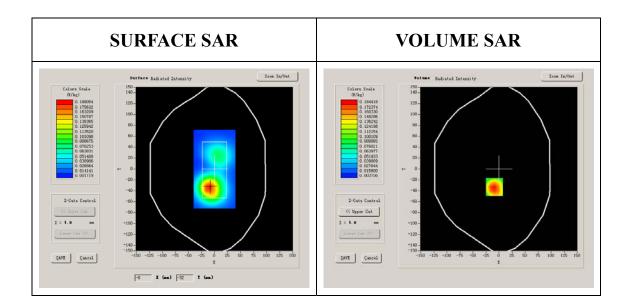
Higher Band SAR (Channel 810):

Frequency (MHz)	1909.800049	
Relative permittivity (real part)	51.540001	
Relative permittivity	12.000000	





Conductivity (S/m)	1.273200		
Variation (%)	-2.230000		
Ambient Temperature:	22.1°C		
Liquid Temperature:	22.0°C		
Probe Serial Number:	SN_3708_EP80		
Crest factor:	1:8		



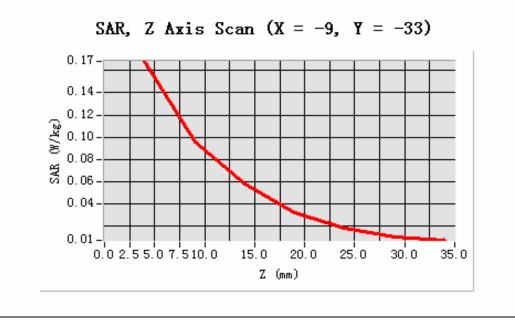
Maximum location: X=-9.00, Y=-33.00

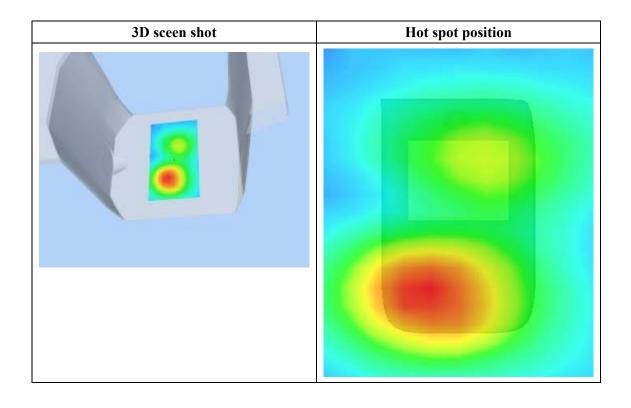
SAR 10g (W/Kg)	0.091819		
SAR 1g (W/Kg)	0.162214		

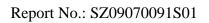




Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.1682	0.0953	0.0577	0.0319	0.0183	0.0108
(W/Kg)							









Type: Phone measurement (Complete)

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

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

Date of measurement: 5/8/2009

Measurement duration: 9 minutes 7 seconds

A. Experimental conditions.

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

B. SAR Measurement Results

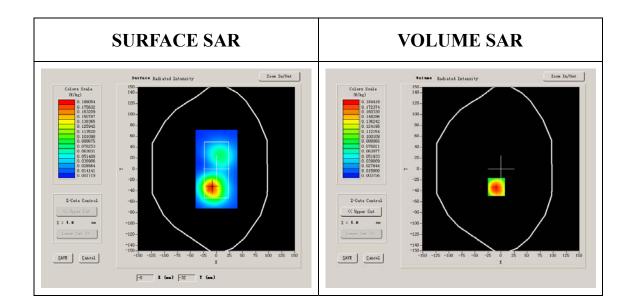
Higher Band SAR (Channel 810):

Frequency (MHz)	1909.800049
Relative permittivity (real part)	51.540001
Relative permittivity	12.000000





Conductivity (S/m)	1.273200	
Variation (%)	-2.230000	
Ambient Temperature:	22.1°C	
Liquid Temperature:	22.0°C	
Probe Serial Number:	SN_3708_EP80	
Crest factor:	1:2	



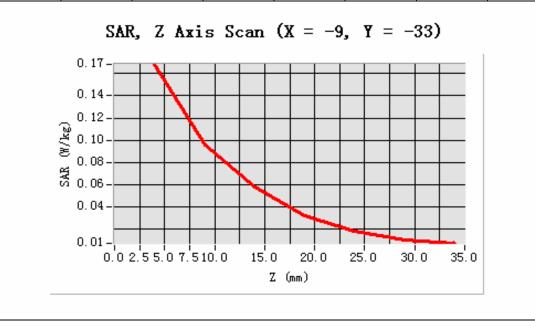
Maximum location: X=-9.00, Y=-33.00

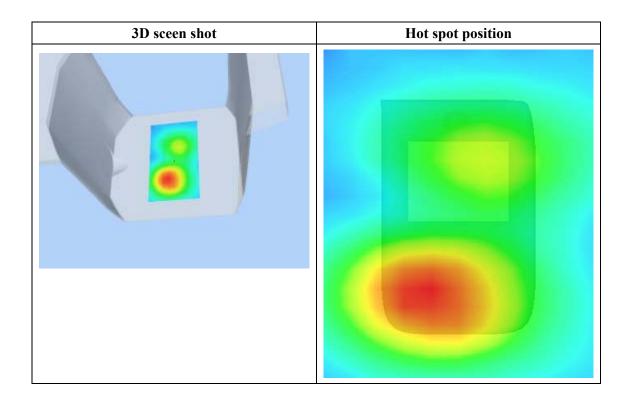
SAR 10g (W/Kg)	0.351441
SAR 1g (W/Kg)	0.637774

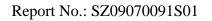




Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR	0.0000	0.1682	0.0953	0.0577	0.0319	0.0183	0.0108
(W/Kg)							









System Performance Check Data(835MHz Head)

Type: Phone measurement (Complete)

Date of measurement: 5/8/2009

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	GSM		

B. SAR Measurement Results

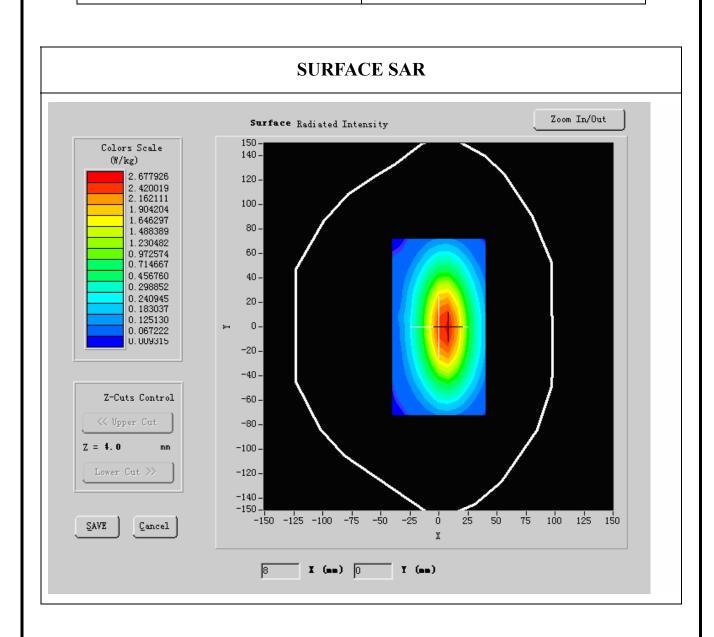
Middle Band SAR:

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
Probe Serial Number:	SN_3708_EP80
Crest factor:	1:1

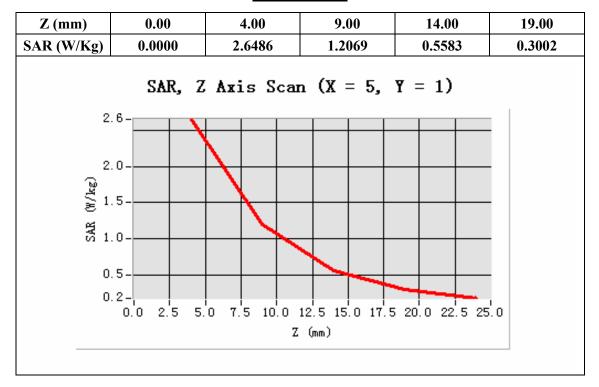


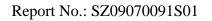
Maximum location: X=5.00, Y=1.00





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







System Performance Check Data(835MHz Body)

Type: Phone measurement (Complete)

Date of measurement: 5/8/2009

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	GSM		

B. SAR Measurement Results

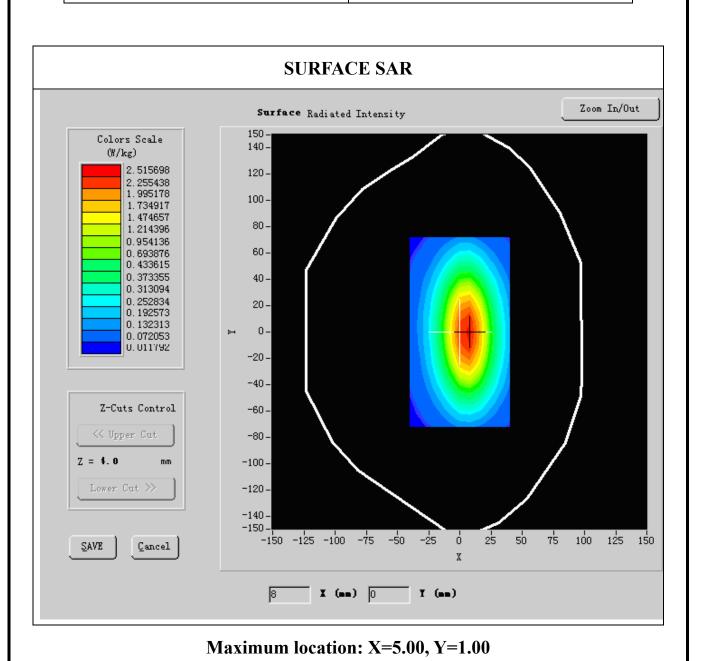
Middle Band SAR:

Frequency (MHz)	835.000000
Relative permittivity (real part)	54.872231
Relative permittivity	15.070000
Conductivity (S/m)	1.054822





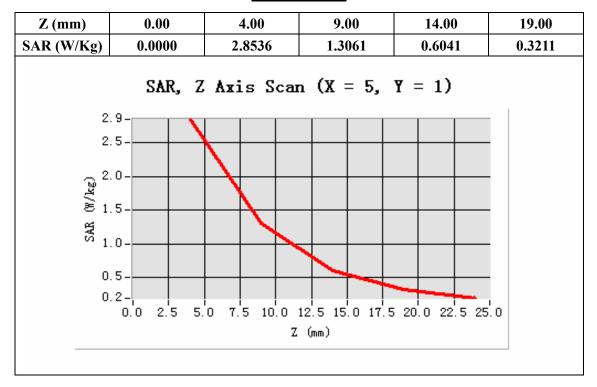
Variation (%)	-0.140000		
Ambient Temperature:	23.5°C		
Liquid Temperature:	22.8°C		
Probe Serial Number:	SN_3708_EP80		
Crest factor:	1:1		

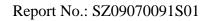






SAR 10g (W/Kg)	1.652852
SAR 1g (W/Kg)	2.701584







System Performance Check Data(1900MHz Head)

Type: Phone measurement (Complete)

Date of measurement: 5/8/2009

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

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

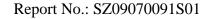
A. Experimental conditions.

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

B. SAR Measurement Results

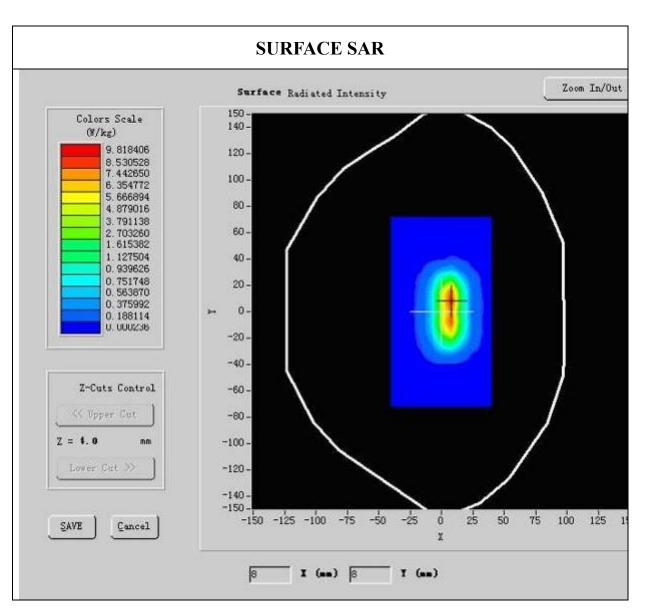
Lower Band SAR:

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
Probe Serial Number:	SN_3708_EP80
Crest factor:	1:1

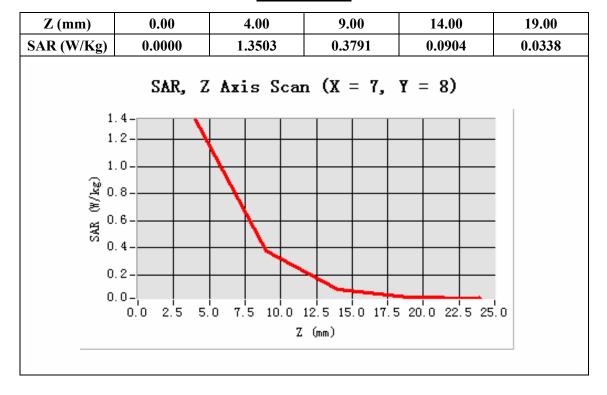


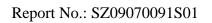
Maximum location: X=7.00, Y=8.00





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: 5/8/2009

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

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

A. Experimental conditions.

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

B. SAR Measurement Results

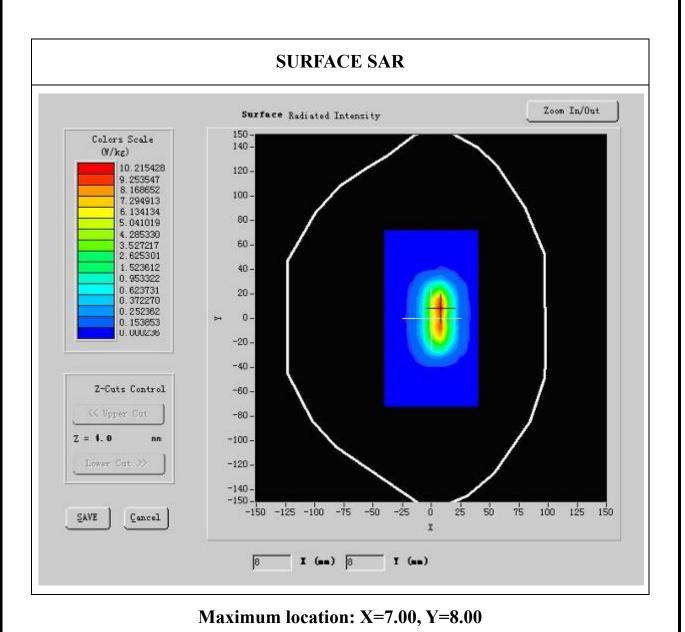
Lower Band SAR:

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
Probe Serial Number:	SN_3708_EP80
Crest factor:	1:1







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

