



SAR TEST REPORT



Issued to

Cellon Communications Technology(ShenZhen)Co., Ltd.

For

3G Android Mobile Phone

Model Name : C8560, ADR1105, ADR1105CH, ADR1105CR, ADR1105PR, ADR1105AR, ADR1105CL, ADR1105GT, ADR1105PE, ADR1105PO, ADR1105AL, ADR1105MV, ADR1105MVO, ADR1105OM, ADR1105MX, ADR1105CA, ADR1105EN, ADR1105PR, ADR1105CP, ADR1105PA, ADR1105SV, ADR1105NI

Trade Name : PCD, Digicel, Coral, Cellon

Brand Name : PCD, Cellon

FCC ID : T38PCD8560

Standard : FCC Oet65 Supplement C Jun.2001
47CFR 2.1093
ANSI C95.1-1999
IEEE 1528-2003

MAX SAR : Head: 0.588W/kg
Body: 1.099W/kg

Test date : 2011-10-12 to 2011-10-13

Issue date : 2011-10-28

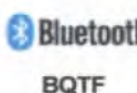
Shenzhen MORLAB Communication Technology Co., Ltd.



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Change History		
Issue	Date	Reason for change
1.0	Oct. 19, 2011	First edition
2.0	Oct. 28,2011	Correct SAR results in list forms of Page24 to Page26.

1. Testing Laboratory

1.1. Identification of the Responsible Testing Laboratory

Company Name: Shenzhen Morlab Communications Technology Co., Ltd.
 Department: Morlab Laboratory
 Address: 3/F, Electronic Testing Building, Shahe Road, Nanshan District, Shenzhen, 518055 P. R. China
 Responsible Test Lab Manager: Mr. Shu Luan
 Telephone: +86 755 86130268
 Facsimile: +86 755 86130218

1.2. Identification of the Responsible Testing Location

Name: Shenzhen Morlab Communications Technology Co., Ltd.
 Morlab Laboratory
 Address: 3/F, Electronic Testing Building, Shahe Road, Nanshan District, Shenzhen, 518055 P. R. China

1.3. Accreditation Certificate

Accredited Testing Laboratory: No. CNAS L3572

1.4. List of Test Equipments

No.	Instrument	Type	Cal. Date	Cal. Due
1	PC	Dell (Pentium IV 2.4GHz, SN:X10-23533)	(n.a)	(n.a)
2	Network Emulator	Rohde&Schwarz (CMU200, SN:105894)	2011-9-26	1year
3	Voltmeter	Keithley (2000, SN:1000572)	2011-9-24	1year
4	Synthesizer	Rohde&Schwarz (SML_03, SN:101868)	2011-9-24	1year
5	Amplifier	Nucl udes (ALB216, SN:10800)	2011-9-24	1year
6	Power Meter	Rohde&Schwarz (NRVD, SN:101066)	2011-9-24	1year
7	Probe	Satimo (SN:SN_3708_EP80)	2011-9-24	1year
8	Phantom	Satimo (SN:SN_36_08_SAM62)	2011-9-24	1year
9	Liquid	Satimo (Last Calibration: 2011-10-12)	N/A	N.A
10	Dipole 835MHz	Satimo (SN 36/08 DIPC 99)	2011-9-24	1year
11	Dipole 1900MHz	Satimo (SN 36/08 DIPF 102)	2011-9-24	1year

2. Technical Information

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

2.1. Identification of Applicant

Company Name: Cellon Communications Technology(ShenZhen)Co., Ltd.
Address: 13/F, Skyworth Building C Gaoxin S. Ave. 1st, High-Tech industrial Park NanShan, ShenZhen

2.2. Identification of Manufacturer

Company Name: Cellon Communications Technology(ShenZhen)Co., Ltd.
Address: 13/F, Skyworth Building C Gaoxin S. Ave. 1st, High-Tech industrial Park NanShan, ShenZhen

2.3. Equipment Under Test (EUT)

Brand Name: PCD, Cellon
Type Name: C8560,ADR1105,ADR1105CH,ADR1105CR,ADR1105PR,ADR1105AR,ADR1105CL,ADR1105GT,ADR1105PE,ADR1105PO,ADR1105AL,ADR1105MV,ADR1105MVO,ADR1105OM,ADR1105MX,ADR1105CA,ADR1105EN,ADR1105PR,ADR1105CP,ADR1105PA,ADR1105SV,ADR1105NI
Marking Name: PCD, Digicel, Coral, Cellon
Hardware Version: C8560 Main PCB P2
Software Version: V1.0.7 (20110831)
Frequency Bands: GSM 850MHz / PCS 1900MHz; WCDMA 850MHz/1900MHz; WIFI802.11 B/G; BLUETOOTH;
Modulation Mode: GSM/GPRS: GMSK; EDGE: 8PSK
WIFI802.11B: DSSS; WIFI802.11G: OFDM
Bluetooth:GFSK
Multislot Class: GPRS: Multislot Class 12; EDGE: Multislot Class 12
Antenna type: Fixed Internal Antenna
Development Stage: Identical prototype
Battery Model: BTR2105
Battery specification: 1200mAh3.7V

2.3.1. Photographs of the EUT

Please see for photographs of the EUT.

2.3.2. Identification of all used EUT

The EUT identity consists of numerical and letter characters, the letter character indicates the test sample, and the following two numerical characters indicate the software version of the test sample.

EUT Identity	Hardware Version	Software Version
1#	HX125_V2.0	HX125-10.pe43.28.1438.0.850.1900

2.4. 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 Bulletin 65 (Edition 97-01), Supplement C (Edition 01-01)	Evaluating Compliance with FCC Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields
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.

2.5. Device Category and SAR Limits

This device belongs to portable device category because its radiating structure is allowed to be used within 20 centimeters of the body of the user. Limit for General Population/Uncontrolled exposure should be applied for this device, it is 1.6 W/kg as averaged over any 1 gram of tissue.

2.6. Test Environment/Conditions

Normal Temperature (NT):	20 ... 25 °C
Relative Humidity:	30 ... 75 %
Air Pressure:	980 ... 1020 hPa
Test frequency:	GSM 850MHz PCS 1900MHz WCDMA 850MHz WCDMA1900MHz
Operation mode:	Call established
Power Level:	GSM 850 MHz Maximum output power(level 5) PCS 1900 MHz Maximum output power(level 0) WCDMA Maximum output power

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

The Absolute Radio Frequency Channel Number (ARFCN) is allocated to 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 ,or to 9262, 9400 and 9538 respectively in the case of WCDMA 19000, or to 4132, 4182 and 4233 respectively in the case of WCDMA 850. 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.

For SAR testing, EUT is in GPRS/EDGE or WCDMA link mode. In GPRS/EDGE link mode, its crest factor is 2, because EUT is set in GPRS/EDGE multi-slot class 12 with 4 uplink slots. In WCDMA link mode, its crest factor is 1.

3. Specific Absorption Rate (SAR)

3.1. Introduction

SAR is related to the rate at which energy is absorbed per unit mass in an object exposed to a radio field. The SAR distribution in a biological body is complicated and is usually carried out by experimental techniques or numerical modeling. The standard recommends limits for two tiers of groups, occupational/controlled and general population/uncontrolled, based on a person's awareness and ability to exercise control over his or her exposure. In general, occupational/controlled exposure limits are higher than the limits for general population/uncontrolled.

3.2. SAR Definition

The SAR definition is the time derivative (rate) of the incremental energy (dW) absorbed by (dissipated in) an incremental mass (dm) contained in a volume element (dv) of a given density. ρ). The equation description is as below:

$$\text{SAR} = \frac{d}{dt} \left(\frac{dW}{dm} \right) = \frac{d}{dt} \left(\frac{dW}{\rho dv} \right)$$

SAR is expressed in units of Watts per kilogram (W/kg)

SAR measurement can be either related to the temperature elevation in tissue by

$$\text{SAR} = C \frac{\delta T}{\delta t}$$

, where C is the specific heat capacity, δT is the temperature rise and δt the exposure duration, or related to the electrical field in the tissue by

$$\text{SAR} = \frac{\sigma |E|^2}{\rho}$$

, where σ is the conductivity of the tissue, ρ is the mass density of the tissue and E is the rms electrical field strength.

However for evaluating SAR of low power transmitter, electrical field measurement is typically applied.

4. SAR Measurement Setup

4.1. The Measurement System

Comosar is a system that is able to determine the SAR distribution inside a phantom of human being according to different standards. The Comosar system consists of the following items:

- Main computer to control all the system
- 6 axis robot
- Data acquisition system
- Miniature E-field probe
- Phone holder
- Head simulating tissue

The following figure shows the system.



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

4.2. Probe

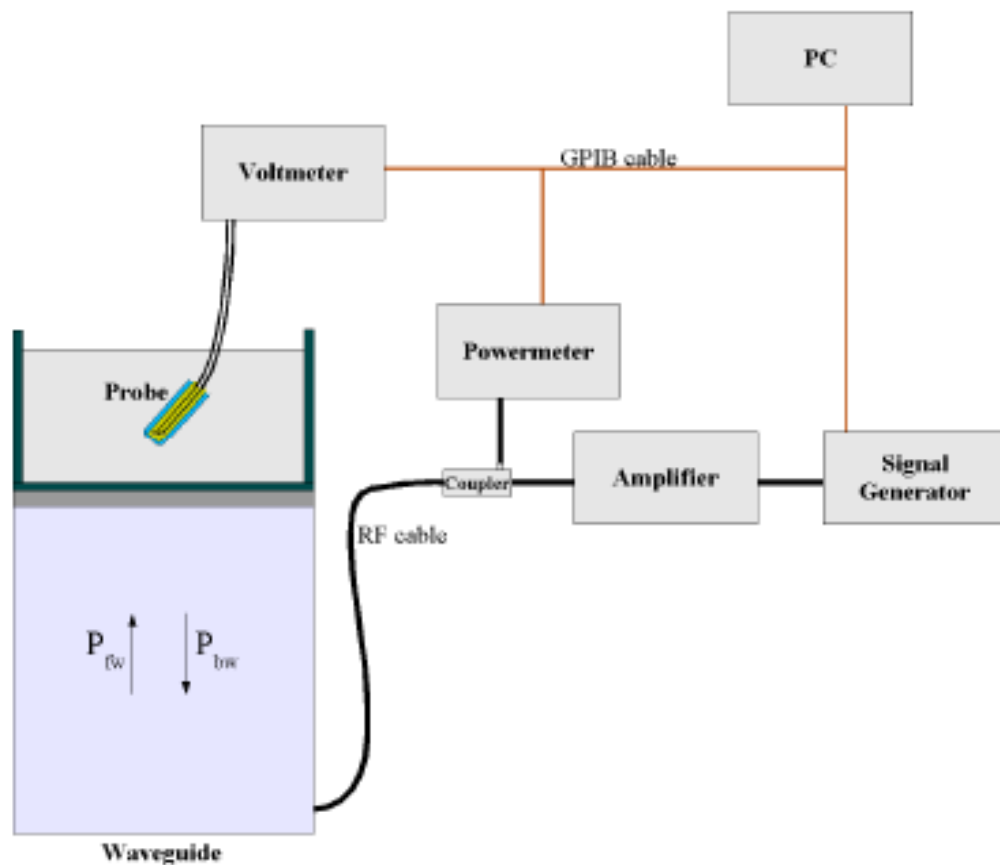
For the measurements the Specific Dosimetric E-Field Probe SN 37/08 EP80 with following specifications is used

- Dynamic range: 0.01-100 W/kg
- Tip Diameter : 6.5 mm
- Distance between probe tip and sensor center: 2.5mm
- Distance between sensor center and the inner phantom surface: 4 mm
(repeatability better than +/- 1mm)

- Probe linearity: <0.25 dB
- Axial Isotropy: <0.25 dB
- Spherical Isotropy: <0.25 dB
- Calibration range: 835to 2500MHz for head & body simulating liquid.

Angle between probe axis (evaluation axis) and surface normal line: less than 30°

Probe calibration is realized, in compliance with CENELEC EN 62209 and IEEE 1528 std, with CALISAR, Antennessa proprietary calibration system. The calibration is performed with the EN 622091 annexe technique using reference guide at the five frequencies.



$$SAR = \frac{4(P_{fw} - P_{bw})}{ab\delta} \cos^2\left(\pi \frac{y}{a}\right) e^{-(2z/\delta)}$$

Where :

P_{fw} = Forward Power

P_{bw} = Backward Power

a and b = Waveguide dimensions

δ = Skin depth

Keithley configuration:

Rate = Medium; Filter =ON; RDGS=10; FILTER TYPE =MOVING AVERAGE; RANGE AUTO

After each calibration, a SAR measurement is performed on a validation dipole and compared with a NPL calibrated probe, to verify it.

The calibration factors, $CF(N)$, for the 3 sensors corresponding to dipole 1, dipole 2 and dipole 3 are:

$$CF(N) = SAR(N) / V_{lin}(N) \quad (N=1,2,3)$$

The linearised output voltage $V_{lin}(N)$ is obtained from the displayed output voltage $V(N)$ using

$$V_{lin}(N) = V(N) * (1 + V(N) / DCP(N)) \quad (N=1,2,3)$$

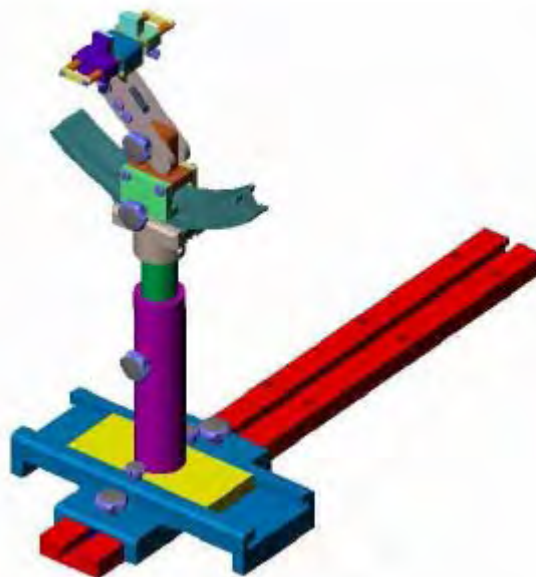
where DCP is the diode compression point in mV.

4.3. Phantom

For the measurements the Specific Anthropomorphic Mannequin (SAM) defined by the IEEE SCC-34/SC2 group is used. The phantom is a polyurethane shell integrated in a wooden table. The thickness of the phantom amounts to 2mm +/- 0.2mm. It enables the dosimetric evaluation of left and right phone usage and includes an additional flat phantom part for the simplified performance check. The phantom set-up includes a cover, which prevents the evaporation of the liquid.

4.4. Device Holder

The positioning system allows obtaining cheek and tilting position with a very good accuracy. In compliance with CENELEC, the tilt angle uncertainty is lower than 1°.



Device holder

System Material	Permittivity	Loss Tangent
Delrin	3.7	0.005

5. Tissue Simulating Liquids

Simulant liquids that are used for testing at frequencies of GSM 850MHz PCS 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 25 litres for a horizontal bath phantom. The liquid height from the ear reference point (ERP) of the phantom to the liquid top surface is (head SAR)or from the flat phantom to the liquid top surface (body SAR) is 15cm.

Gives the recipes for one liter of head and body tissue simulating liquid for frequency band 835 MHz ,1900 MHz and 2450 MHz.

Ingredients (% by weight)	Frequency Band		Frequency Band		Frequency Band
	835MHz		1900MHz		2450MHz
Tissue Type	Head	Body	Body	Body	Body
Water	41.45	52.4	73.2	40.4	73.2
Salt(NaCl)	1.45	1.4	0.04	0.5	0.04
Sugar	56.0	45.0	0.0	58.0	0.0
HEC	1.0	1.0	0.0	1.0	0.0
Bactericide	0.1	0.1	0.0	0.1	0.0
Triton	0.0	0.0	0.0	0.0	0.0
DGBE	0.0	0.0	26.7	0.0	26.7
Acticide SPX	0.0	0.0	0.0	0.0	0.0
Dielectric Constant	42.45	56.1	52.5	54.0	52.5
Conductivity (S/m)	0.91	0.95	1.78	1.45	1.78

Recipes for Tissue Simulating Liquid

The dielectric parameters of the liquids were verified prior to the SAR evaluation using an Agilent 85033E Dielectric Probe Kit and an Agilent Network Analyzer.

Table 1: Dielectric Performance of Head Tissue Simulating Liquid

Temperature: 23.0~23.8°C, humidity: 54~60%.			
/	Frequency	Permittivity ϵ	Conductivity σ (S/m)
Target value	835 MHZ	41.5	0.90
Validation value (Oct. 12)	835 MHZ	41.675999	0.894409
Target value	1900 MHZ	40	1.40
Validation value (Oct. 12)	1900 MHZ	38.509998	1.436111

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

Table 2: Dielectric Performance of Body Tissue Simulating Liquid

Temperature: 23.0~23.8°C, humidity: 54~60%.			
/	Frequency	Permittivity ϵ	Conductivity σ (S/m)
Target value	835 MHz	55.2	0.97
Validation value (Oct. 12)	835 MHz	55.709999	1.009033
Target value	1900 MHz	53.3	1.52
Validation value (Oct. 12)	1900 MHz	52.548876	1.573978
Target value	2450 MHz	53.3	1.52
Validation value (Oct. 12)	2450 MHz	52.548876	1.573978

6. Uncertainty Assessment

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

6.1. UNCERTAINTY EVALUATION FOR HANDSET SAR TEST

a	b	c	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 (+-%)	V i
Measurement System									
Probe calibration	E.2.1	7.0	N	1	1	1	7.00	7.00	
Axial Isotropy	E.2.2	2.5	R	$\sqrt{3}$	0.7	0.7	1.01	1.01	
Hemispherical Isotropy	E.2.2	4.0	R	$\sqrt{3}$	0.7	0.7	1.62	1.62	
Boundary effect	E.2.3	1.0	R	$\sqrt{3}$	1	1	0.58	0.58	
Linearity	E.2.4	5.0	R	$\sqrt{3}$	1	1	2.89	2.89	
System detection limits	E.2.5	1.0	R	$\sqrt{3}$	1	1	0.58	0.58	
Readout Electronics	E.2.6	0.02	N	1	1	1	0.02	0.02	
Reponse Time	E.2.7	3.0	R	$\sqrt{3}$	1	1	1.73	1.73	
Integration Time	E.2.8	2.0	R	$\sqrt{3}$	1	1	1.15	1.15	
RF ambient Conditions	E.6.1	3.0	R	$\sqrt{3}$	1	1	1.73	1.73	
Probe positioner Mechanical Tolerance	E.6.2	2.0	R	$\sqrt{3}$	1	1	1.15	1.15	
Probe positioning with respect to Phantom Shell	E.6.3	0.05	R	$\sqrt{3}$	1	1	0.03	0.03	
Extrapolation, interpolation and integration Algorithms for Max. SAR Evaluation	E.5.2	5.0	R	$\sqrt{3}$	1	1	2.89	2.89	
Test sample Related									
Test sample positioning	E.4.2.1	0.03	N	1	1	1	0.03	0.03	N - 1
Device Holder Uncertainty	E.4.1.1	5.00	N	1	1	1	5.00	5.00	
Output power Power drift - SAR drift measurement	6.6.2	2.74	R	$\sqrt{3}$	1	1	1.58	1.58	
Phantom and Tissue Parameters									
Phantom Uncertainty (Shape and thickness tolerances)	E.3.1	0.05	R	$\sqrt{3}$	1	1	0.03	0.03	
Liquid conductivity - deviation from target value	E.3.2	4.57	R	$\sqrt{3}$	0.64	0.43	1.69	1.13	

Liquid conductivity - measurement uncertainty	E.3.3	5.00	N	1	0.64	0.43	3.20	2.15	M
Liquid permittivity - deviation from target value	E.3.2	3.69	R	$\sqrt{3}$	0.6	0.49	1.28	1.04	
Liquid permittivity - measurement uncertainty	E.3.3	10.00	N	1	0.6	0.49	6.00	4.90	M
Combined Standard Uncertainty			RSS				12.52	11.71	
Expanded Uncertainty (95% Confidence interval)			k				25.05	23.42	

6.2. UNCERTAINTY FOR SYSTEM PERFORMANCE CHECK

a	b	c	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 (+-%)	V i
Measurement System									
Probe calibration	E.2.1	7.0	N	1	1	1	7.00	7.00	
Axial Isotropy	E.2.2	2.5	R	$\sqrt{3}$	0.7	0.7	1.01	1.01	
Hemispherical Isotropy	E.2.2	4.0	R	$\sqrt{3}$	0.7	0.7	1.62	1.62	
Boundary effect	E.2.3	1.0	R	$\sqrt{3}$	1	1	0.58	0.58	
Linearity	E.2.4	5.0	R	$\sqrt{3}$	1	1	2.89	2.89	
System detection limits	E.2.5	1.0	R	$\sqrt{3}$	1	1	0.58	0.58	
Readout Electronics	E.2.6	0.02	N	1	1	1	0.02	0.02	
Reponse Time	E.2.7	3.0	R	$\sqrt{3}$	1	1	1.73	1.73	
Integration Time	E.2.8	2.0	R	$\sqrt{3}$	1	1	1.15	1.15	
RF ambient Conditions	E.6.1	3.0	R	$\sqrt{3}$	1	1	1.73	1.73	
Probe positioner Mechanical Tolerance	E.6.2	2.0	R	$\sqrt{3}$	1	1	1.15	1.15	
Probe positioning with respect to Phantom Shell	E.6.3	0.05	R	$\sqrt{3}$	1	1	0.03	0.03	
Extrapolation, interpolation and integration Algorithms for Max. SAR Evaluation	E.5.2	5.0	R	$\sqrt{3}$	1	1	2.89	2.89	
Dipole									
Dipole axis to liquid Distance	8,E.4.2	1.00	N	$\sqrt{3}$	1	1	0.58	0.58	N - 1
Input power and SAR drift measurement	8,6.6.2	2.74	R	$\sqrt{3}$	1	1	1.58	1.58	

Phantom and Tissue Parameters									
Phantom Uncertainty (Shape and thickness tolerances)	E.3.1	0.05	R	$\sqrt{3}$	1	1	0.03	0.03	
Liquid conductivity - deviation from target value	E.3.2	4.57	R	$\sqrt{3}$	0.64	0.43	1.69	1.13	
Liquid conductivity - measurement uncertainty	E.3.3	5.00	N	1	0.64	0.43	3.20	2.15	M
Liquid permittivity - deviation from target value	E.3.2	3.69	R	$\sqrt{3}$	0.6	0.49	1.28	1.04	
Liquid permittivity - measurement uncertainty	E.3.3	10.00	N	1	0.6	0.49	6.00	4.90	M
Combined Standard Uncertainty			RSS				11.50	10.61	
Expanded Uncertainty (95% Confidence interval)			k				23.00	21.21	

7. SAR Measurement Evaluation

7.1. System Setup

In the simplified setup for system evaluation, the DUT is replaced by a calibrated dipole and the power source is replaced by a continuous wave which comes from a signal generator at frequency 835 MHz and 1900 MHz. The calibrated dipole must be placed beneath the flat phantom section of the SAM twin phantom with the correct distance holder. The distance holder should touch the phantom surface with a light pressure at the reference marking and be oriented parallel to the long side of the phantom.

Equipments :

name	Type and specification
Signal generator	E4433B
Directional coupler	450MHz-3GHz
Amplifier	3W 502(10-2500MHz)
Reference dipole	835MHz:SN 36/08 DIPC 99 1900MHz:SN 36/08 DIPF 102 2450MHz:SN 36/08 DIPF 103

7.2. Validation Results

Comparing to the original SAR value provided by SPEAG, the validation data should be within its specification of 10 %.

Cal. On Oct.12, 2011

Frequency	835MHz	1900MHz	2450MHz
Target value (1g)	9.2 W/Kg	39.7 W/Kg	52.4 W/Kg
250 mW input power	2.478 W/Kg	9.556 W/Kg	12.899 W/Kg
Test value (1g)	9.912 W/Kg	38.224 W/Kg	51.596 W/Kg

Cal. On Oct.13, 2011

Frequency	835MHz	1900MHz
Target value (1g)	9.2 W/Kg	39.7 W/Kg
250 mW input power	2.383 W/Kg	9.066 W/Kg
Test value (1g)	9.532 W/Kg	36.264 W/Kg

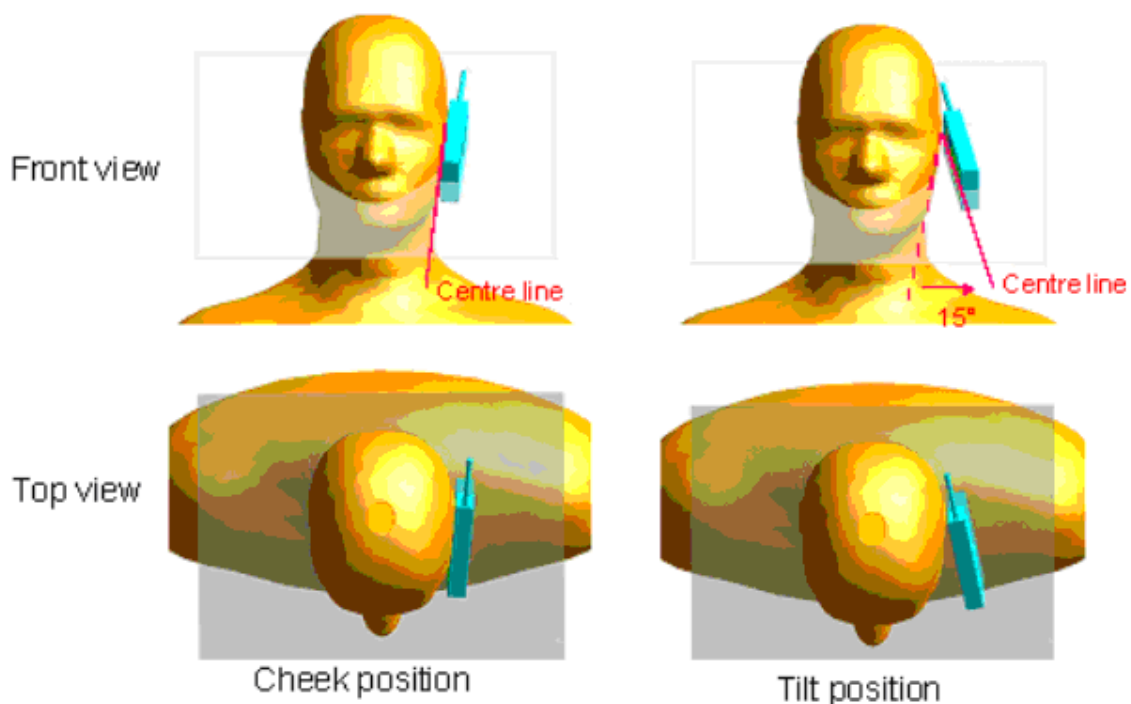
Note: System checks the specific test data please see page 125-234.

8. Operational Conditions During Test

8.1. Informations on the testing

The mobile phone antenna and battery are those specified by the manufacturer. The battery is fully charged before each measurement. The output power and frequency are controlled using a base station simulator. The mobile phone is set to transmit at its highest output peak power level.

The mobile phone is test in the “cheek” and “tilted” positions on the left and right sides of the phantom. The mobile phone is placed with the vertical centre line of the body of the mobile phone and the horizontal line crossing the centre of the earpiece in a plane parallel to the sagittal plane of the phantom.



Description of the “cheek” position:

The mobile phone is well placed in the reference plane and the earpiece is in contact with the ear. Then the mobile phone is moved until any point on the front side get in contact with the cheek of the phantom or until contact with the ear is lost.

Description of the “tilted” position:

The mobile phone is well placed in the “cheek” position as described above. Then the mobile phone is moved outward away from the month by an angle of 15 degrees or until contact with the ear lost.

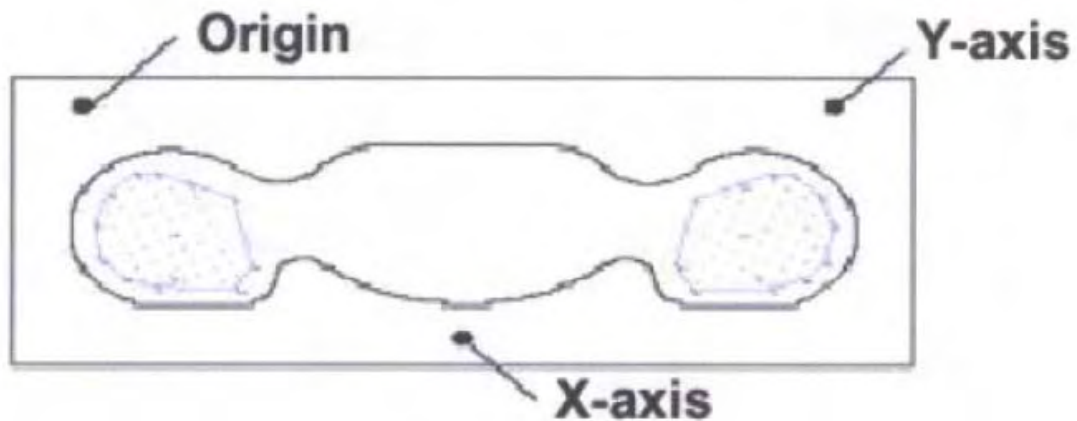
Remark: Please refer to Appendix B for the test setup photos.

8.2. Body-worn Configurations

The body-worn configurations shall be tested with the supplied accessories (belt-clips, holsters, etc.) attached to the device in normal use configuration.

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

For body-worn and other configurations a flat phantom shall be used which is comprised of material with electrical properties similar to the corresponding tissues.



SAR Measurement Points in Area Scan

8.3. Measurement procedure

The following steps are used for each test position

- Establish a call with the maximum output power with a base station simulator. The connection between the mobile and the base station simulator is established via air interface
- Measurement of the local E-field value at a fixed location. This value serves as a reference value for calculating a possible power drift.
- Measurement of the SAR distribution with a grid of 8 to 16mm * 8 to 16 mm and a constant distance to the inner surface of the phantom. Since the sensors can not directly measure at the inner phantom surface, the values between the sensors and the inner phantom surface are extrapolated. With these values the area of the maximum SAR is calculated by an interpolation scheme.
- Around this point, a cube of 30 * 30 * 30 mm or 32 * 32 * 32 mm is assessed by measuring 5 or 8 * 5 or 8*4 or 5 mm. With these data, the peak spatial-average SAR value can be calculated.

8.4. Description of interpolation/extrapolation scheme

The local SAR inside the phantom is measured using small dipole sensing elements inside a probe body. The probe tip must not be in contact with the phantom surface in order to minimize measurements errors, but the highest local SAR will occur at the surface of the phantom.

An extrapolation is using to determinate this highest local SAR values. The extrapolation is based on a fourth-order least-square polynomial fit of measured data. The local SAR value is then extrapolated

from the liquid surface with a 1mm step.

The measurements have to be performed over a limited time (due to the duration of the battery) so the step of measurement is high. It could vary between 5 and 8 mm. To obtain an accurate assessment of the maximum SAR averaged over 10 grams and 1 gram requires a very fine resolution in the three dimensional scanned data array.

9. 3G MEASUREMENT PROCEDURES

9.1. Procedures Used To Establish Test Signal

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

9.2. SAR Measurement Conditions for WCDMA

These procedures were followed according to FCC KDB 941225, October, 2007.

9.3. Output Power Verification

Maximum output power is verified on the High, Middle and Low channels according to the general descriptions in section 5.2 of 3GPP TS 34.121, using the appropriate RMC or AMR with TPC(transmit power control) set to all “1s”. Results for all applicable physical channel configurations (DPCCH, DPDCHn and spreading codes) should be tabulated in the test report. All configurations that are not supported by the EUT or cannot be measured due to technical or equipment limitations should be clearly identified.

9.4. Measurement Of Conducted Peak Output Power.

Item	band	WCDMA 850			WCDMA 1900		
	ARFCN	4357	4400	4458	9662	9800	9938
	subtest	dBm			dBm		
5.2(WCDMA)	non	21.50	21.79	22.07	21.97	21.89	22.00
HSDPA	1	21.38	21.55	21.87	21.75	21.67	21.72
	2	21.37	21.57	21.84	21.75	21.66	21.76
	3	20.72	21.15	21.57	20.42	21.33	21.46
	4	20.84	21.16	21.53	20.53	21.35	21.48

GSM mode

Band	Channel	Frequency (MHz)	Output Power
			(dBm)
GSM 850	128	824.2	30.93
	190	836.6	30.96
	251	848.8	31.1
PCS 1900	512	1850.2	28.97
	661	1880.0	29.59
	810	1909.8	29.44

GPRS Mode

Band	Channel	Frequency (MHz)	Output Power(dBm)			
			Slot 1	Slot 2	Slot 3	Slot 4
GSM 850	128	824.2	29.06	29.06	29.11	29.12
	190	836.6	29.01	29.02	29.07	29.06
	251	848.8	29.16	29.14	29.21	29.22
PCS 1900	512	1850.2	26.38	26.4	26.36	26.37
	661	1880.0	26.89	26.93	26.94	26.93
	810	1909.8	26.72	26.71	26.77	26.77

GPRS Mode Time-based Average Power

Band	Channel	Frequency (MHz)	Output Power(dBm)			
			Slot 1	Slot 2	Slot 3	Slot 4
GSM 850	128	824.2	20.06	23.06	26.61	27.12
	190	836.6	20.01	23.02	25.57	27.06
	251	848.8	20.16	23.14	25.71	27.22
PCS 1900	512	1850.2	17.38	20.4	22.86	24.37
	661	1880.0	17.89	20.93	23.44	24.93
	810	1909.8	17.72	20.71	23.27	24.77

EGPRS Mode

Band	Channel	Frequency (MHz)	Output Power(dBm)			
			Slot 1	Slot 2	Slot 3	Slot 4
GSM 850	128	824.2	31.08	31.08	31.65	29.81
	190	836.6	30.87	30.87	31.41	29.49
	251	848.8	31.18	31.18	31.68	29.65
PCS 1900	512	1850.2	28.77	28.77	26.83	24.91
	661	1880.0	28.50	28.50	26.53	24.59
	810	1909.8	29.77	29.77	27.73	25.72

EGPRS Mode Time-based Average Power

Band	Channel	Frequency (MHz)	Output Power(dBm)			
			Slot 1	Slot 2	Slot 3	Slot 4
GSM 850	128	824.2	22.08	25.08	24.65	27.81
	190	836.6	21.87	24.87	23.41	27.49
	251	848.8	22.18	25.18	24.68	27.65
PCS 1900	512	1850.2	19.77	22.77	19.83	22.91
	661	1880.0	28.50	22.50	19.53	22.59
	810	1909.8	20.77	23.77	20.73	23.72

Wifi peak output power

Band	Channel	Frequency (MHz)	Output Power(dBm)	
			802.11B (DSSS)	802.11G (OFDM)
WiFi	1	2412	9.23	0.68
	6	2437	8.76	1.12
	11	2462	8.93	1.36

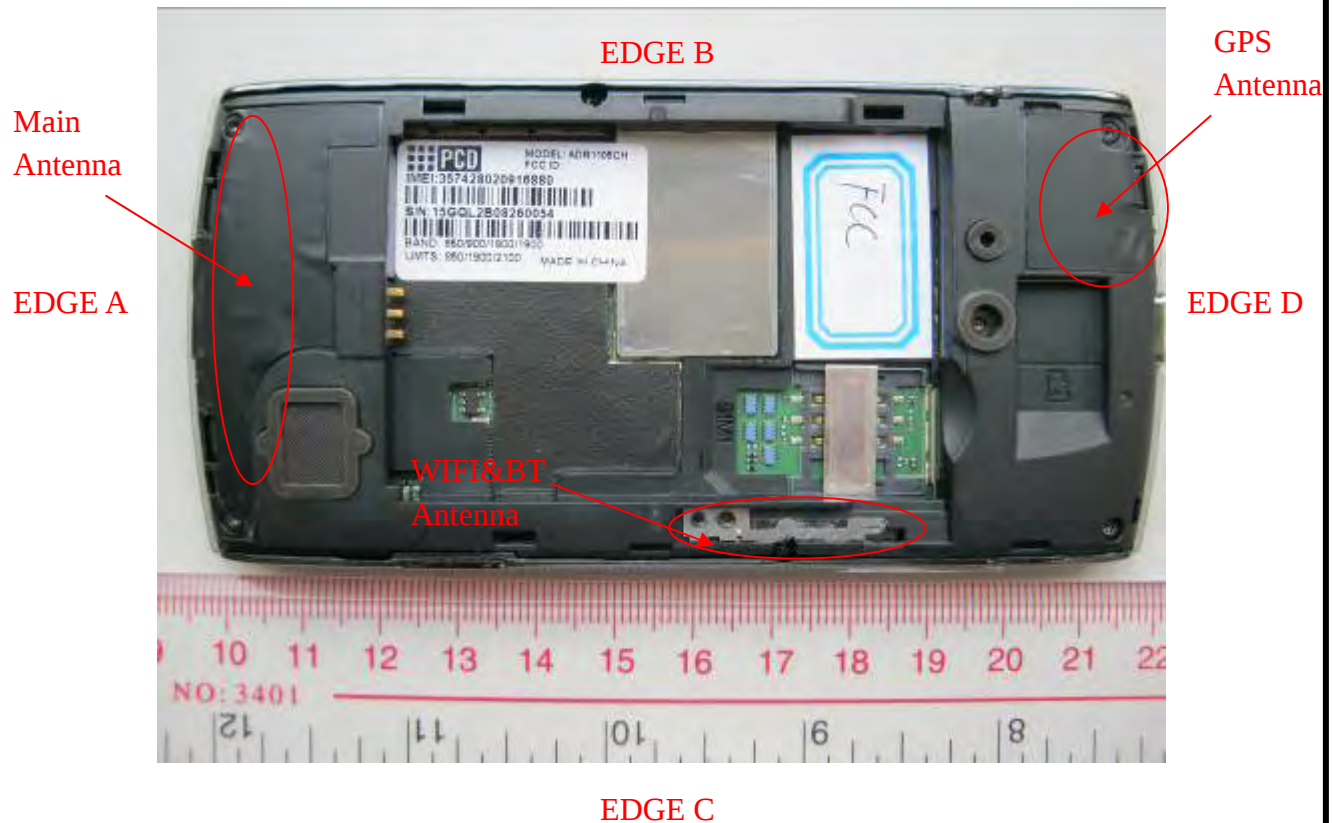
Bluetooth peak output power

Band	Channel	Frequency (MHz)	Output Power(dBm)		
			GFSK	$\Pi/4$ -DQPSK	8-DPSK
BT	0	2402	-0.808	0.949	-1.443
	38	2441	-0.358	1.549	-0.921
	79	2480	2.42	4.346	1.924

10. Wireless Hot Spot SAR Evaluation Procedures

This Portable Devices with Wireless Router function. And the SAR evaluation procedures accord with KDB 941225 D06 Hot Spot SAR v01.

1. SAR must be tested for all surfaces and edges (side) with a transmitting antenna with in 2.5 cm from that surface or edge, at a test separation distance of 10 mm, in the wireless modes that support wireless routing.
2. Edge configurations:



11. Test Results List

Summary of Measurement Results (GSM 850MHz Band)

Temperature: 21.0~23.8°C, humidity: 54~60%.						
Phantom Configurations		Device Test Positions	Antenna Positions	SAR(W/Kg)		
				Device Test channel,		
				Channel 128	Channel 190	Channel 251
Left Side Of Head		Cheek/Touch	Internal	0.400	0.376	0.432
		Ear/Tilt	Internal	0.286	0.258	0.267
Right Side Of Head		Cheek/Touch	Internal	0.354	0.348	0.348
		Ear/Tilt	Internal	0.304	0.296	0.293
Body (10mm Separation)	GSM	Back upward	Internal	/	/	0.727
		Face Upward	Internal	/	/	0.476
		EDGE A	Internal	/	/	0.069
		EDGE B	Internal	/	/	0.415
		EDGE C	Internal	/	/	0.362
		EDGE D	Internal	/	/	/
	EDGE	Back upward	Internal	0.787	/	/
		Face Upward	Internal	0.529	/	/
		EDGE A	Internal	0.074	/	/
		EDGE B	Internal	0.534	/	/
		EDGE C	Internal	0.613	/	/
		EDGE D	Internal		/	/
	GPRS	Back upward	Internal	0.775	0.528	1.099
		Face Upward	Internal	/	/	0.604
		EDGE A	Internal	/	/	0.086
		EDGE B	Internal	/	/	0.507
		EDGE C	Internal	/	/	0.501
		EDGE D	Internal	/	/	/

Summary of Measurement Results (GSM 1900MHz Band)

Temperature: 21.0~23.8°C, humidity: 54~60%.					
Phantom Configurations	Device Test Positions	Antenna Positions	SAR(W/Kg)		
			Device Test channel,		
			Channel 512	Channel 661	Channel 810
Left Side Of Head	Cheek/Touch	Internal	0.235	0.291	0.263
	Ear/Tilt	Internal	0.095	0.088	0.101
Right Side Of Head	Cheek/Touch	Internal	0.510	0.503	0.394
	Ear/Tilt	Internal	0.083	0.100	0.098

Body (10mm Separation)	GSM	Back upward	Internal	/	0.535	/
		Face Upward	Internal	/	0.338	/
		EDGE A	Internal	/	0.142	/
		EDGE B	Internal	/	0.716	/
		EDGE C	Internal	/	0.597	/
		EDGE D	Internal	/	/	/
	EDGE	Back upward	Internal	/	/	0.659
		Face Upward	Internal	/	/	0.417
		EDGE A	Internal	/	/	0.064
		EDGE B	Internal	/	/	0.730
		EDGE C	Internal	/	/	0.607
		EDGE D	Internal	/	/	/
	GPRS	Back upward	Internal	/	0.582	/
		Face Upward	Internal	/	0.203	/
		EDGE A	Internal	/	0.194	/
		EDGE B	Internal	/	0.567	/
		EDGE C	Internal	/	0.621	/
		EDGE D	Internal	/	/	/

Summary of Measurement Results (WCDMA 850MHz Band)

Temperature: 21.0~23.8°C, humidity: 54~60%.					
Phantom Configurations	Device Test Positions	Antenna Positions	SAR(W/Kg)		
			Device Test channel		
			Channel 4132	Channel 4182	Channel 4233
Left Side Of Head	Cheek/Touch	Internal	0.279	0.333	0.346
	Ear/Tilt	Internal	0.180	0.262	0.211
Right Side Of Head	Cheek/Touch	Internal	0.231	0.339	0.268
	Ear/Tilt	Internal	0.184	0.267	0.215
Body (10mm Separation)	Back upward	Internal	/	/	0.678
	Face Upward	Internal	/	/	0.376
	EDGE A	Internal	/	/	0.093
	EDGE B	Internal	/	/	0.425
	EDGE C	Internal	/	/	0.582
	EDGE D	Internal	/	/	/

Summary of Measurement Results (WCDMA 1900MHz Band)

Temperature: 21.0~23.8°C, humidity: 54~60%.					
Phantom Configurations	Device Test Positions	Antenna Positions	SAR(W/Kg)		
			Device Test channel		
			Channel 9262	Channel 9400	Channel 9538
Left Side Of Head	Cheek/Touch	Internal	0.428	0.307	0.326
	Ear/Tilt	Internal	0.149	0.133	0.258
Right Side Of Head	Cheek/Touch	Internal	0.588	0.376	0.439
	Ear/Tilt	Internal	0.173	0.096	0.118
Body (10mm Separation)	Back upward	Internal	/	/	0.582
	Face Upward	Internal	/	/	0.169
	EDGE A	Internal	/	/	0.199
	EDGE B	Internal	/	/	0.478
	EDGE C	Internal	/	/	0.771
	EDGE D	Internal	/	/	/

Summary of Measurement Results (WLAN 802.11B Band)

Temperature: 21.0~23.8°C, humidity: 54~60%.					
Phantom Configurations	Device Test Positions	Antenna Positions	SAR(W/Kg), 1g Peak		
			Device Test channel		
			Channel 1	Channel 6	Channel 11
Body (10mm separation)	Back upward	Internal	0.103	/	/
	Face Upward	Internal	0.122	/	/
	Edge A	Internal	/	/	/
	Edge B	Internal	/	/	/
	Edge C	Internal	0.082	/	/
	Edge D	Internal	/	/	/

Note: 1. Refer KDB 447498, when the SAR procedures require multiple channels to be tested and the 1-g SAR for the highest output channel is less than 0.8 W/kg and peak SAR is less than 1.6W/kg, where the transmission band corresponding to all channels is ≤ 100 MHz, testing for the other channels is not required.

2. WCDMA antenna located at edge A, the distance between WCDMA antenna and edge D is large than 2.5cm. according with KDB941225 D06, the SAR measurement of Edge D is not required

3. WIFI antenna located at edge C. the distance between wifi antenna and EDGE A, B&D is large than 2.5cm. according with KDB941225 D06, the SAR measurement of EDGE A, B&D is not required.

12. Multiple Transmitters Evaluation

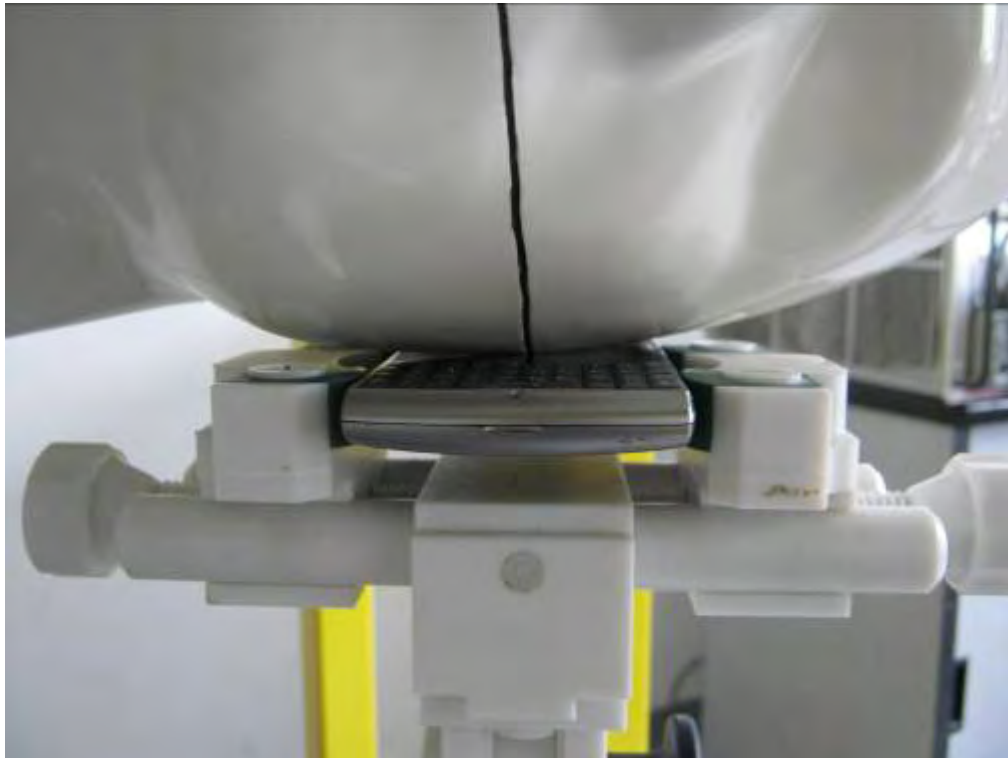
13. There are three transmitters built in EUT, as follows:



1. The Wifi mode Max. 1-g SAR value is 0.121 W/Kg, and the Main Antenna Max. 1-g SAR value is 1.099 W/Kg, the sum of 1-g SAR value is 1.220 W/Kg less than 1.6 W/Kg, according with KDB 648474 D01, when the sum of the 1-g SAR is <1.6 W/kg for all simultaneous transmitting antennas, and the Simultaneous Transmission SAR is not required.
2. The GSM and WCDMA can't simultaneous transmitting.

Annex A EUT Setup Photos

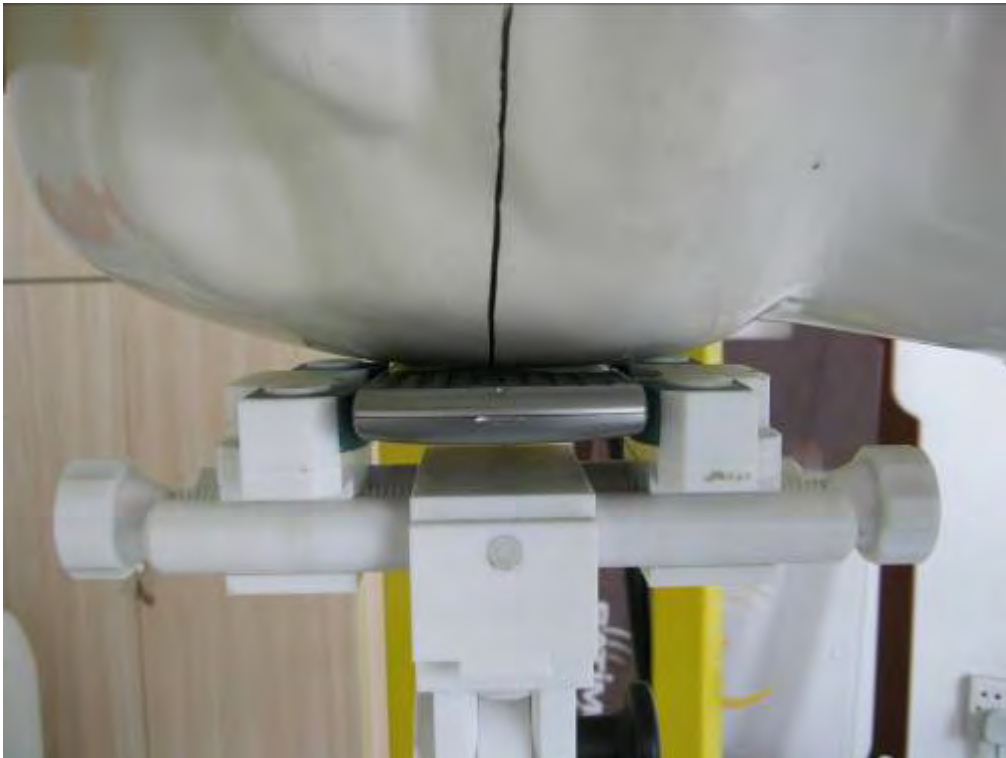
1 EUT Left Head Touch Cheek Position



2 EUT Left Head Tilt15 Position



3 EUT Right Head Touch Cheek Position



4 EUT Right Head Tilt15 Position



5 Side Position



6 Side position with earphone



7 EDGE A



8 EDGE B



9 EDGE C



10 EDGE D



Liquid Level Photo



Annex B Graph Test Results

BAND	PARAMETERS
<u>GSM850</u>	<u>Measurement 1:</u> Right Head with Cheek device position on Low Channel in GSM mode
	<u>Measurement 2:</u> Right Head with Cheek device position on Middle Channel in GSM mode
	<u>Measurement 3:</u> Right Head with Cheek device position on High Channel in GSM mode
	<u>Measurement 4:</u> Right Head with Tilt device position on Low Channel in GSM mode
	<u>Measurement 5:</u> Right Head with Tilt device position on Middle Channel in GSM mode
	<u>Measurement 6:</u> Right Head with Tilt device position on High Channel in GSM mode
	<u>Measurement 7:</u> Left Head with Cheek device position on Low Channel in GSM mode
	<u>Measurement 8:</u> Left Head with Cheek device position on Middle Channel in GSM mode
	<u>Measurement 9:</u> Left Head with Cheek device position on High Channel in GSM mode
	<u>Measurement 10:</u> Left Head with Tilt device position on Low Channel in GSM mode
	<u>Measurement 11:</u> Left Head with Tilt device position on Middle Channel in GSM mode
	<u>Measurement 12:</u> Left Head with Tilt device position on High Channel in GSM mode
	<u>Measurement 13:</u> Validation Plane with Body device position on High Channel in GSM mode (back)
	<u>Measurement 14:</u> Validation Plane with Cheek device position on High Channel in GSM mode (upward)
	<u>Measurement 15:</u> Validation Plane with Body device position on High Channel in GSM mode (EDGE A)
	<u>Measurement 16:</u> Validation Plane with Cheek device position on High Channel in GSM mode (EDGE B)
	<u>Measurement 17:</u> Validation Plane with Cheek device position on High Channel in GSM mode (EDGE C)
	<u>Measurement 18:</u> Validation Plane with Body device position on Low Channel in EDGE mode (back)
	<u>Measurement 19:</u> Validation Plane with Body device position on Low Channel in EDGE mode (upward)
	<u>Measurement 20:</u> Validation Plane with Body device position on Low Channel in EDGE mode (EDGE A)
	<u>Measurement 21:</u> Validation Plane with Body device position on

	Low Channel in EDGE mode (EDGE B) <u>Measurement 22:</u> Validation Plane with Body device position on Low Channel in EDGE mode (EDGE C) <u>Measurement 23:</u> Validation Plane with Body device position on Low Channel in GPRS mode (back) <u>Measurement 24:</u> Validation Plane with Body device position on Middle Channel in GPRS mode (back) <u>Measurement 25:</u> Validation Plane with Body device position on High Channel in GPRS mode (back) <u>Measurement 26:</u> Validation Plane with Body device position on High Channel in GPRS mode (upward) <u>Measurement 27:</u> Validation Plane with Body device position on High Channel in GPRS mode (EDGE A) <u>Measurement 28:</u> Validation Plane with Body device position on High Channel in GPRS mode (EDGE B) <u>Measurement 29:</u> Validation Plane with Body device position on High Channel in GPRS mode (EDGE C)
<u>GSM1900</u>	<u>Measurement 30:</u> Right Head with Cheek device position on Low Channel in GSM mode <u>Measurement 31:</u> Right Head with Cheek device position on Middle Channel in GSM mode <u>Measurement 32:</u> Right Head with Cheek device position on High Channel in GSM mode <u>Measurement 33:</u> Right Head with Tilt device position on Low Channel in GSM mode <u>Measurement 34:</u> Right Head with Tilt device position on Middle Channel in GSM mode <u>Measurement 35:</u> Right Head with Tilt device position on High Channel in GSM mode <u>Measurement 36:</u> Left Head with Cheek device position on Low Channel in GSM mode <u>Measurement 37:</u> Left Head with Cheek device position on Middle Channel in GSM mode <u>Measurement 38:</u> Left Head with Cheek device position on High Channel in GSM mode <u>Measurement 39:</u> Left Head with Tilt device position on Low Channel in GSM mode <u>Measurement 40:</u> Left Head with Tilt device position on Middle Channel in GSM mode <u>Measurement 41:</u> Left Head with Tilt device position on High Channel in GSM mode <u>Measurement 42:</u> Validation Plane with Body device position on Middle Channel in GSM mode (back) <u>Measurement 43:</u> Validation Plane with Body device position on

	Middle Channel in GSM mode (upward) <u>Measurement 44:</u> Validation Plane with Body device position on Middle Channel in GSM mode (EDGE A) <u>Measurement 45:</u> Validation Plane with Body device position on Middle Channel in GSM mode (EDGE B) <u>Measurement 46:</u> Validation Plane with Body device position on Middle Channel in GSM mode (EDGE C) <u>Measurement 47:</u> Validation Plane with Body device position on Middle Channel in GPRS mode <u>Measurement 48:</u> Validation Plane with Body device position on Middle Channel in GPRS mode (upward) <u>Measurement 49:</u> Validation Plane with Body device position on Middle Channel in GPRS mode (EDGE A) <u>Measurement 50:</u> Validation Plane with Body device position on Middle Channel in GPRS mode (EDGE B) <u>Measurement 51:</u> Validation Plane with Body device position on Middle Channel in GPRS mode (EDGE C) <u>Measurement 52:</u> Validation Plane with Body device position on High Channel in EDGE mode (back) <u>Measurement 53:</u> Validation Plane with Body device position on High Channel in EDGE mode (upward) <u>Measurement 54:</u> Validation Plane with Body device position on High Channel in EDGE mode (EDGE A) <u>Measurement 55:</u> Validation Plane with Body device position on High Channel in EDGE mode (EDGE B) <u>Measurement 56:</u> Validation Plane with Body device position on High Channel in EDGE mode (EDGE C)
<u>WCDMA</u> <u>850</u>	<u>Measurement 57:</u> Right Head with Cheek device position on Low Channel in CDMA mode <u>Measurement 58:</u> Right Head with Cheek device position on Middle Channel in CDMA mode <u>Measurement 59:</u> Right Head with Cheek device position on High Channel in CDMA mode <u>Measurement 60:</u> Right Head with Tilt device position on Low Channel in CDMA mode <u>Measurement 61:</u> Right Head with Tilt device position on Middle Channel in CDMA mode <u>Measurement 62:</u> Right Head with Tilt device position on High Channel in CDMA mode <u>Measurement 63:</u> Left Head with Cheek device position on Low Channel in CDMA mode <u>Measurement 64:</u> Left Head with Cheek device position on Middle Channel in CDMA mode <u>Measurement 65:</u> Left Head with Cheek device position on High

	Channel in CDMA mode <u>Measurement 66:</u> Left Head with Tilt device position on Low Channel in CDMA mode <u>Measurement 67:</u> Left Head with Tilt device position on Middle Channel in CDMA mode <u>Measurement 68:</u> Left Head with Tilt device position on High Channel in CDMA mode <u>Measurement 69:</u> Validation Plane with Body device position on High Channel in CDMA mode (back) <u>Measurement 70:</u> Validation Plane with Body device position on High Channel in CDMA mode (upward) <u>Measurement 71:</u> Validation Plane with Body device position on High Channel in CDMA mode (EDGE A) <u>Measurement 72:</u> Validation Plane with Body device position on High Channel in CDMA mode (EDGE B) <u>Measurement 73:</u> Validation Plane with Body device position on High Channel in CDMA mode (EDGE C)
<u>WCDMA</u> <u>1900</u>	<u>Measurement 74:</u> Right Head with Cheek device position on Low Channel in CDMA mode <u>Measurement 75:</u> Right Head with Cheek device position on Middle Channel in CDMA mode <u>Measurement 76:</u> Right Head with Cheek device position on High Channel in CDMA mode <u>Measurement 77:</u> Right Head with Tilt device position on Low Channel in CDMA mode <u>Measurement 78:</u> Right Head with Tilt device position on Middle Channel in CDMA mode <u>Measurement 79:</u> Right Head with Tilt device position on High Channel in CDMA mode <u>Measurement 80:</u> Left Head with Cheek device position on Low Channel in CDMA mode <u>Measurement 81:</u> Left Head with Cheek device position on Middle Channel in CDMA mode <u>Measurement 82:</u> Left Head with Cheek device position on High Channel in CDMA mode <u>Measurement 83:</u> Left Head with Tilt device position on Low Channel in CDMA mode <u>Measurement 84:</u> Left Head with Tilt device position on Middle Channel in CDMA mode <u>Measurement 85:</u> Left Head with Tilt device position on High Channel in CDMA mode <u>Measurement 86:</u> Validation Plane with Body device position on High Channel in CDMA mode(back) <u>Measurement 87:</u> Validation Plane with Body device position on

	High Channel in CDMA mode (upward) <u>Measurement 88:</u> Validation Plane with Body device position on High Channel in CDMA mode (EDGE A) <u>Measurement 89:</u> Validation Plane with Body device position on High Channel in CDMA mode (EDGE B) <u>Measurement 90:</u> Validation Plane with Body device position on High Channel in CDMA mode (EDGE C)
<u>WIFI</u> <u>2450</u>	<u>Measurement 91:</u> Validation Plane with Body device position on Low Channel in DSSS mode (back) <u>Measurement 92:</u> Validation Plane with Body device position on Low Channel in DSSS mode (upward) <u>Measurement 93:</u> Validation Plane with Body device position on Low Channel in DSSS mode (EDGE C)

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: 12/10/2011

Measurement duration: 8 minutes 9 seconds

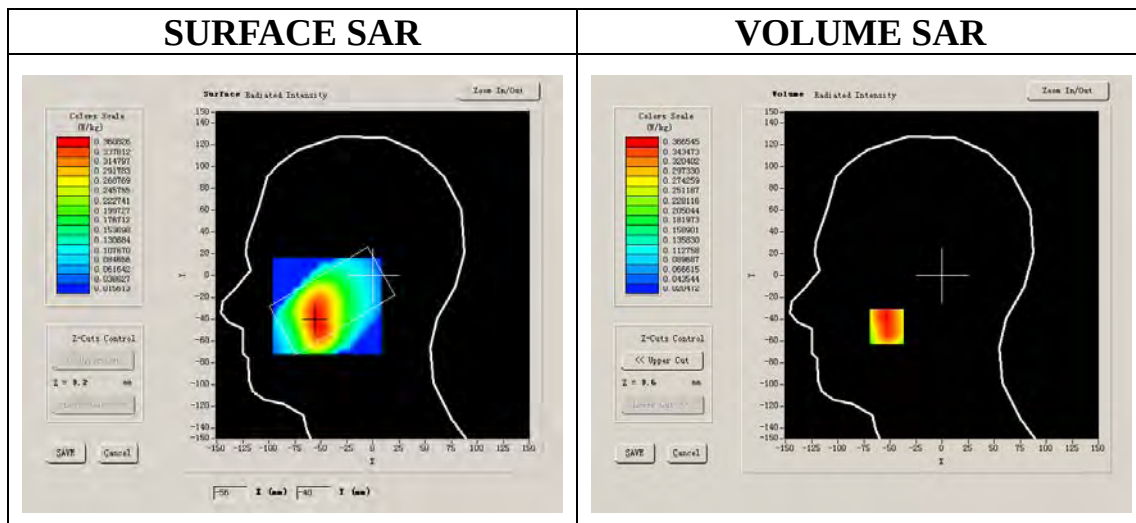
A. Experimental conditions.

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
Power drift (%)	0.030000
Ambient Temperature:	23.4°C
Liquid Temperature:	22.9°C
ConvF:	28.479,25.214,27.196
Crest factor:	1:8

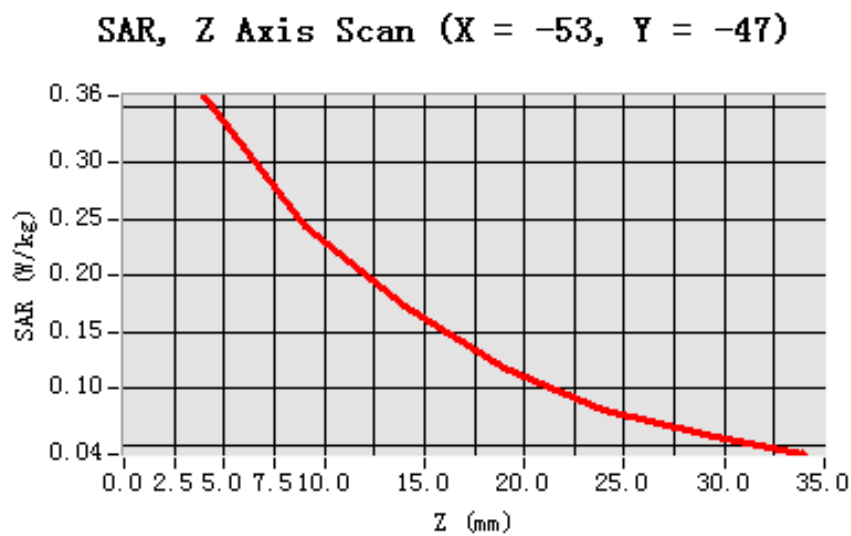


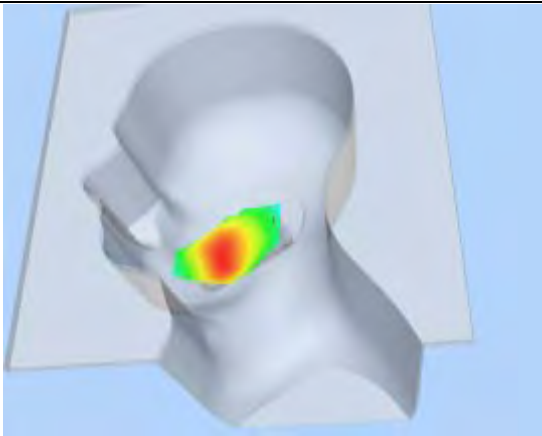
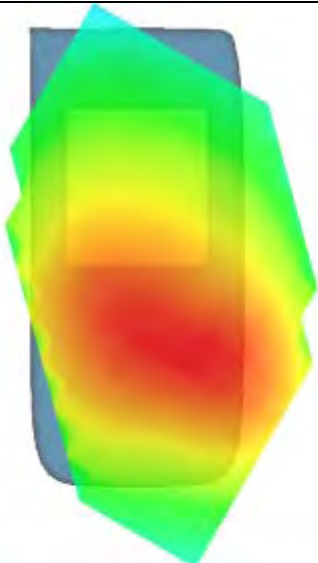
Maximum location: X=-53.00, Y=-47.00

SAR 10g (W/Kg)	0.237378
SAR 1g (W/Kg)	0.353808

Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	0.3592	0.2432	0.1724	0.1191	0.0815	0.0591



3D sceen shot	Hot spot position
	

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:

Measurement duration: 7 minutes 59 seconds

A. Experimental conditions.

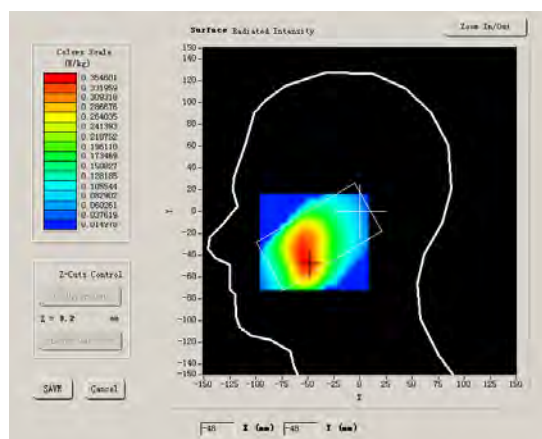
Phantom File	sam_direct_droit2_surf8mm.txt
Phantom	Right head
Device Position	Cheek
Band	GSM850
Channels	Middle
Signal	GSM

B. SAR Measurement Results

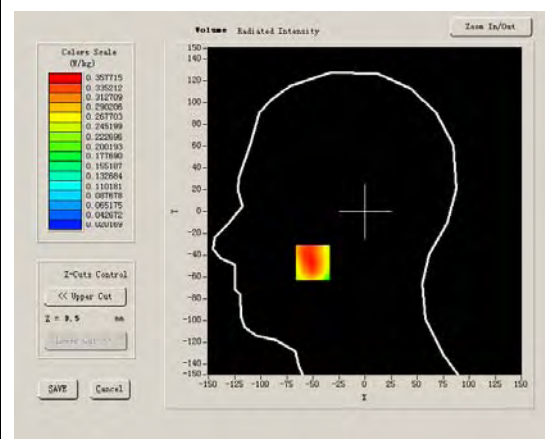
Middle Band SAR (Channel 190):

Frequency (MHz)	836.599976
Relative permittivity (real part)	40.669998
Relative permittivity	19.120001
Conductivity (S/m)	0.888655
Power drift (%)	-1.670000
Ambient Temperature:	23.4°C
Liquid Temperature:	22.9°C
ConvF:	28.479,25.214,27.196
Crest factor:	1:8

SURFACE SAR



VOLUME SAR

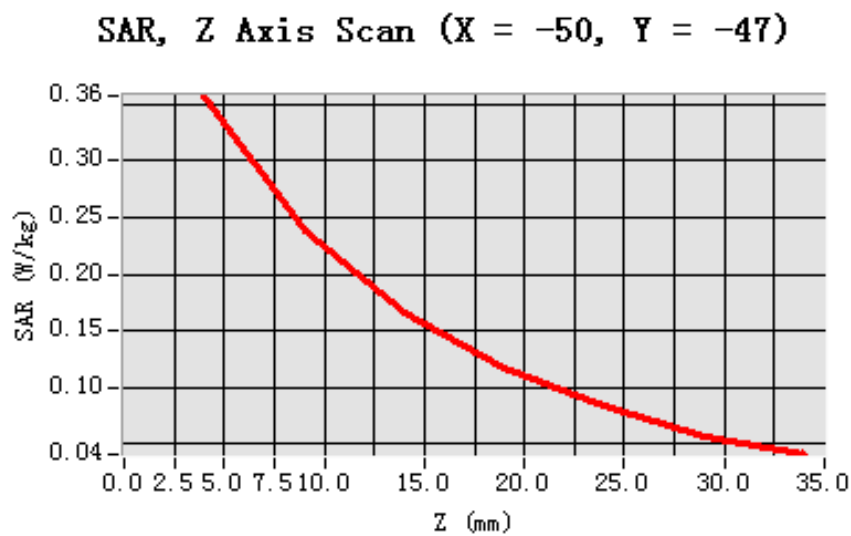


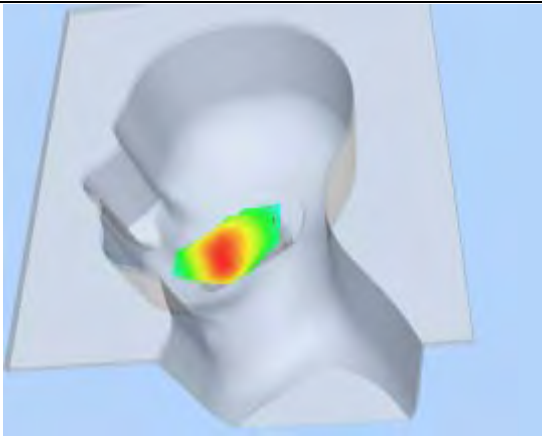
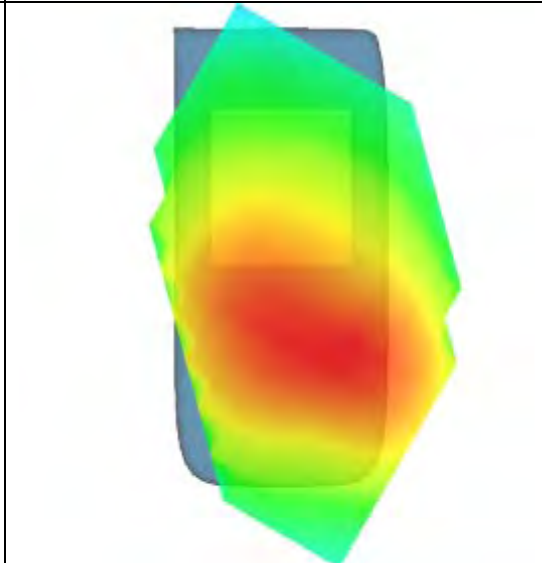
Maximum location: X=-50.00, Y=-47.00

SAR 10g (W/Kg)	0.232305
SAR 1g (W/Kg)	0.348199

Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	0.3577	0.2377	0.1656	0.1161	0.0829	0.0568



3D sceen shot	Hot spot position
	

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: 12/10/2011

Measurement duration: 8 minutes 2 seconds

A. Experimental conditions.

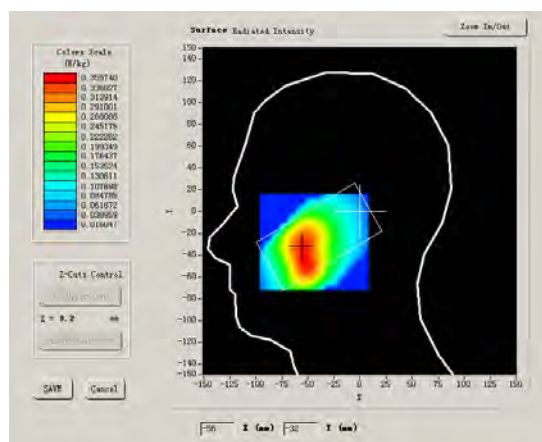
Phantom File	sam_direct_droit2_surf8mm.txt
Phantom	Right head
Device Position	Cheek
Band	GSM850
Channels	High
Signal	GSM

B. SAR Measurement Results

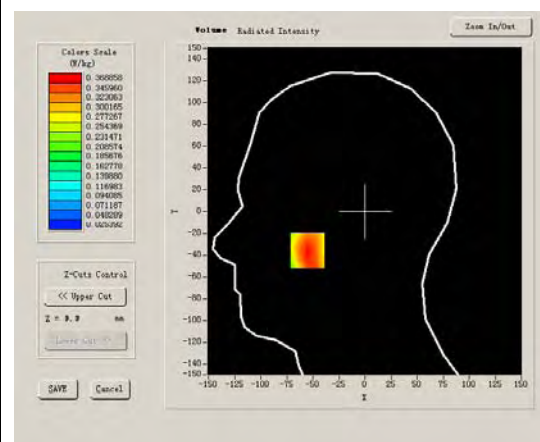
Higher Band SAR (Channel 251):

Frequency (MHz)	848.799988
Relative permittivity (real part)	41.675999
Relative permittivity	18.967199
Conductivity (S/m)	0.894409
Power drift (%)	0.280000
Ambient Temperature:	23.4°C
Liquid Temperature:	22.9°C
ConvF:	28.479,25.214,27.196
Crest factor:	1:8

SURFACE SAR



VOLUME SAR

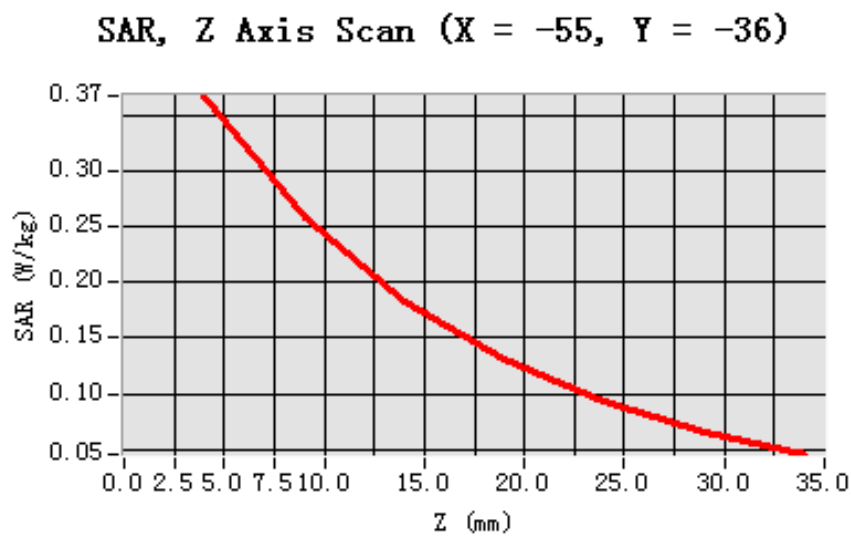


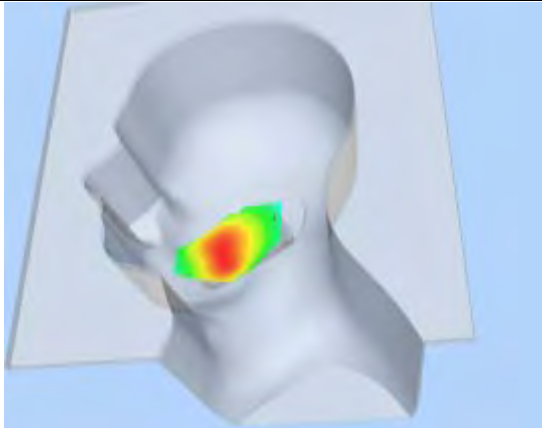
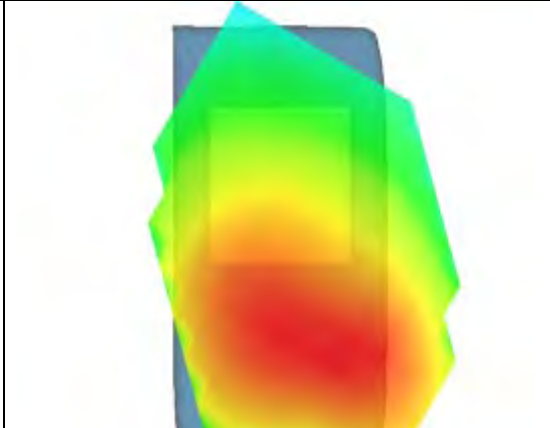
Maximum location: X=-55.00, Y=-36.00

SAR 10g (W/Kg)	0.240651
SAR 1g (W/Kg)	0.348206

Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	0.3689	0.2585	0.1827	0.1317	0.0921	0.0641



3D sceen shot	Hot spot position
	

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: 12/10/2011

Measurement duration: 7 minutes 33 seconds

A. Experimental conditions.

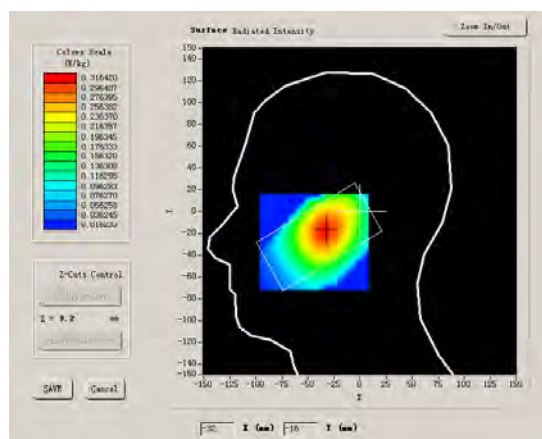
Phantom File	sam_direct_droit2_surf8mm.txt
Phantom	Right head
Device Position	Tilt
Band	GSM850
Channels	Low
Signal	GSM

B. SAR Measurement Results

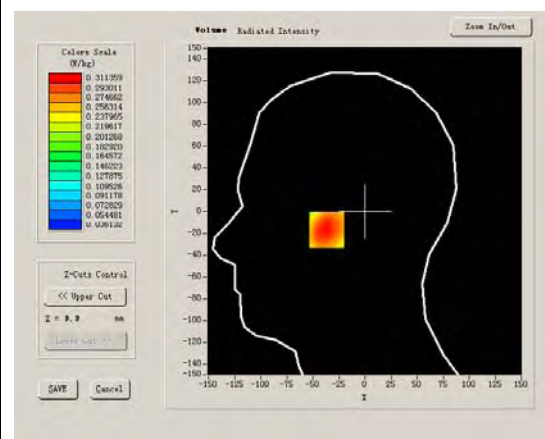
Lower Band SAR (Channel 128):

Frequency (MHz)	824.200012
Relative permittivity (real part)	41.790001
Relative permittivity	18.926250
Conductivity (S/m)	0.866612
Power drift (%)	-1.080000
Ambient Temperature:	23.4°C
Liquid Temperature:	22.9°C
ConvF:	28.479,25.214,27.196
Crest factor:	1:8

SURFACE SAR



VOLUME SAR



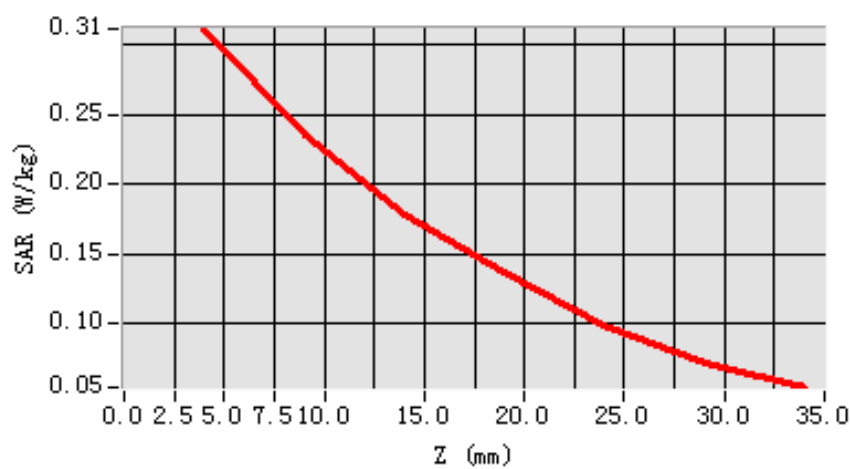
Maximum location: X=-33.00, Y=-17.00

SAR 10g (W/Kg)	0.217716
SAR 1g (W/Kg)	0.303694

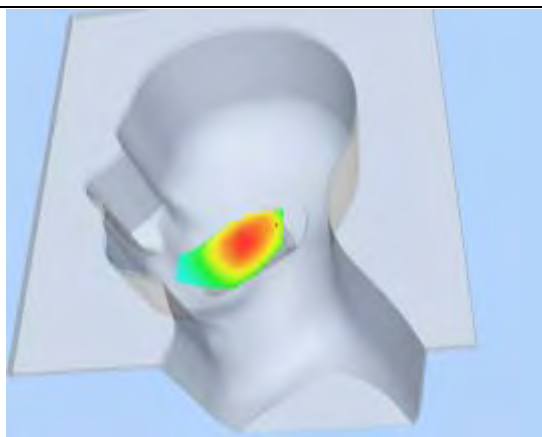
Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	0.3114	0.2358	0.1774	0.1375	0.0993	0.0711

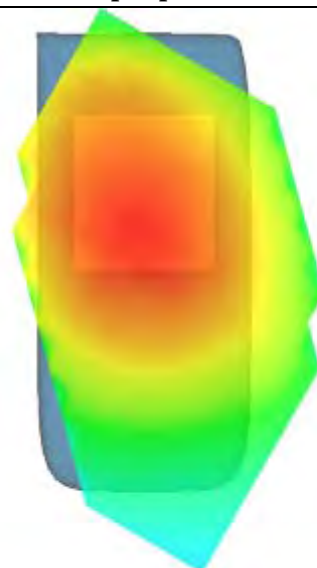
SAR, Z Axis Scan (X = -33, Y = -17)



3D sceen shot



Hot spot position



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: 12/10/2011

Measurement duration: 7 minutes 37 seconds

A. Experimental conditions.

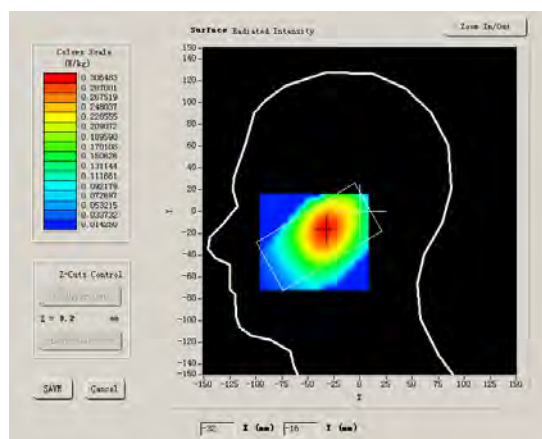
Phantom File	sam_direct_droit2_surf8mm.txt
Phantom	Right head
Device Position	Tilt
Band	GSM850
Channels	Middle
Signal	GSM

B. SAR Measurement Results

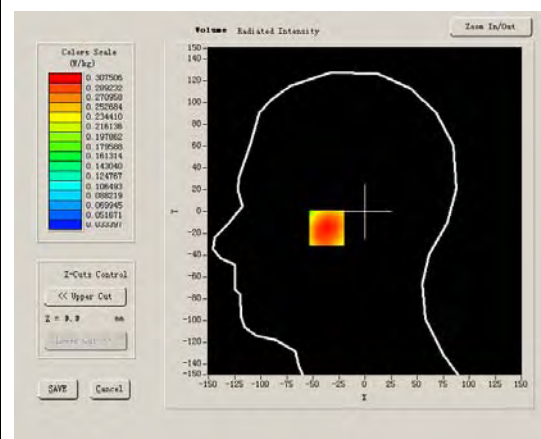
Middle Band SAR (Channel 190):

Frequency (MHz)	836.599976
Relative permittivity (real part)	40.669998
Relative permittivity	19.120001
Conductivity (S/m)	0.888655
Power drift (%)	1.650000
Ambient Temperature:	23.4°C
Liquid Temperature:	22.9°C
ConvF:	28.479,25.214,27.196
Crest factor:	1:8

SURFACE SAR



VOLUME SAR



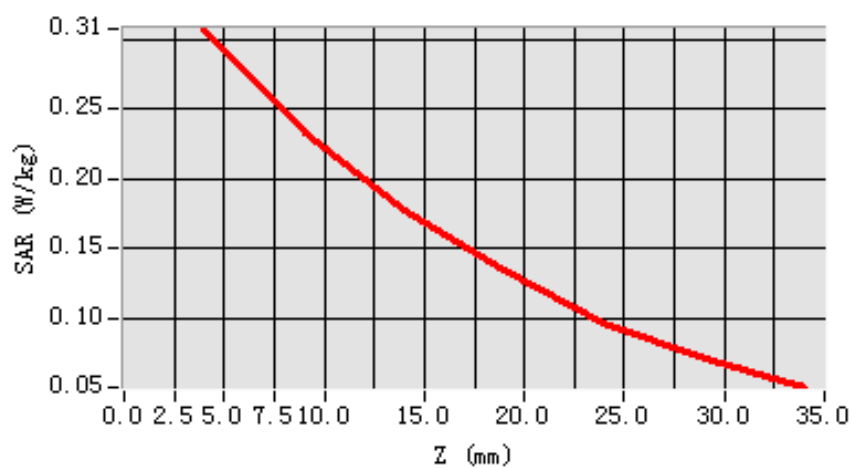
Maximum location: X=-33.00, Y=-15.00

SAR 10g (W/Kg)	0.213512
SAR 1g (W/Kg)	0.296383

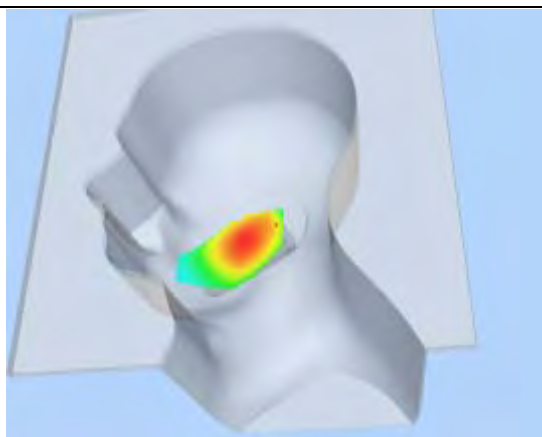
Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	0.3075	0.2329	0.1769	0.1341	0.0965	0.0714

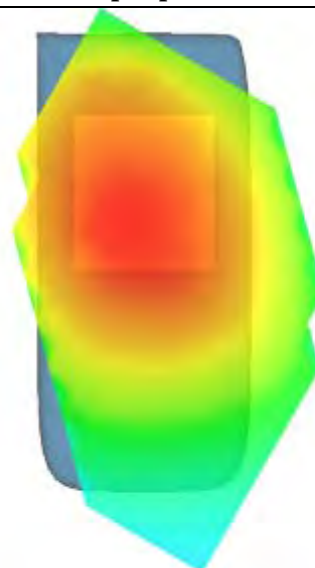
SAR, Z Axis Scan (X = -33, Y = -15)



3D sceen shot



Hot spot position



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: 12/10/2011

Measurement duration: 7 minutes 33 seconds

A. Experimental conditions.

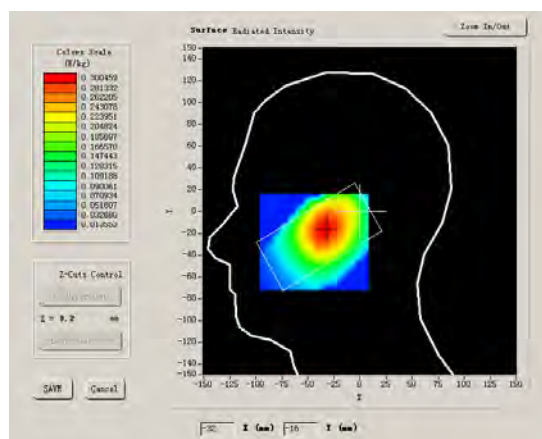
Phantom File	sam_direct_droit2_surf8mm.txt
Phantom	Right head
Device Position	Tilt
Band	GSM850
Channels	High
Signal	GSM

B. SAR Measurement Results

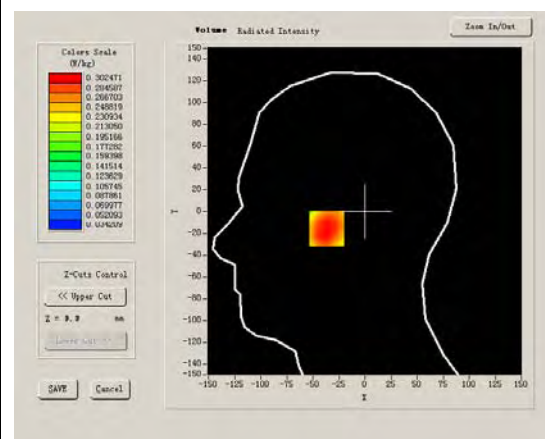
Higher Band SAR (Channel 251):

Frequency (MHz)	848.799988
Relative permittivity (real part)	41.675999
Relative permittivity	18.967199
Conductivity (S/m)	0.894409
Power drift (%)	1.160000
Ambient Temperature:	23.4°C
Liquid Temperature:	22.9°C
ConvF:	28.479,25.214,27.196
Crest factor:	1:8

SURFACE SAR



VOLUME SAR



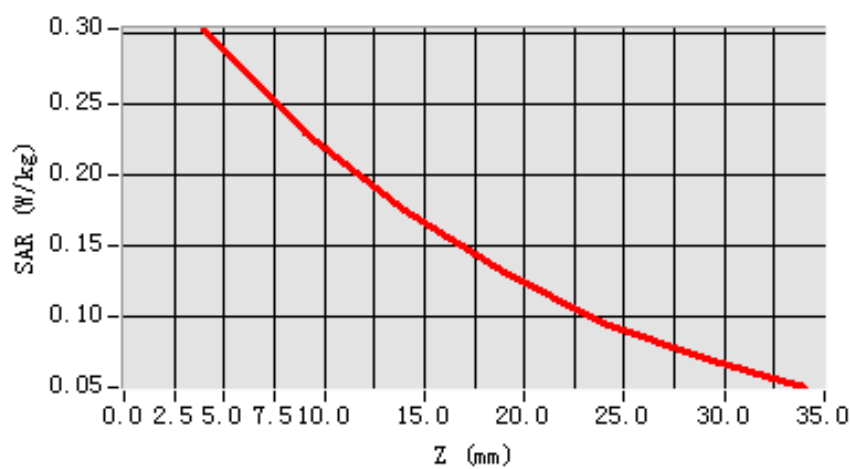
Maximum location: X=-33.00, Y=-16.00

SAR 10g (W/Kg)	0.210768
SAR 1g (W/Kg)	0.293469

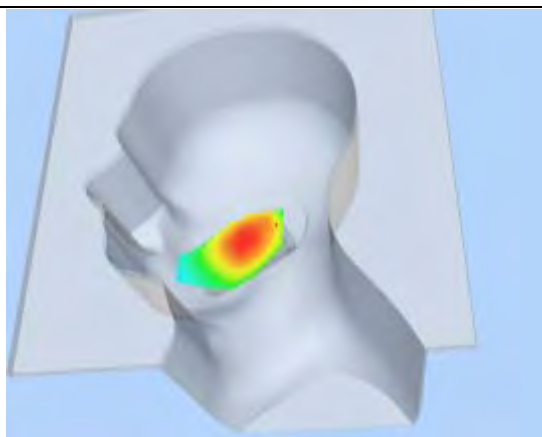
Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	0.3025	0.2290	0.1743	0.1307	0.0954	0.0708

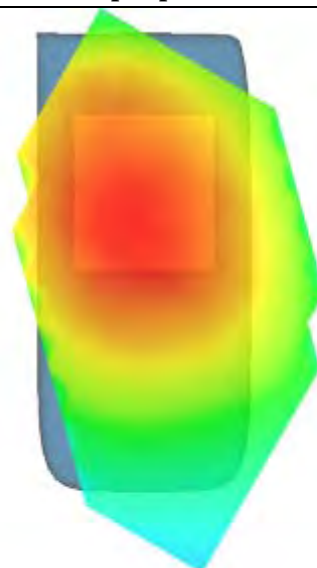
SAR, Z Axis Scan (X = -33, Y = -16)



3D sceen shot



Hot spot position



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: 12/10/2011

Measurement duration: 7 minutes 58 seconds

A. Experimental conditions.

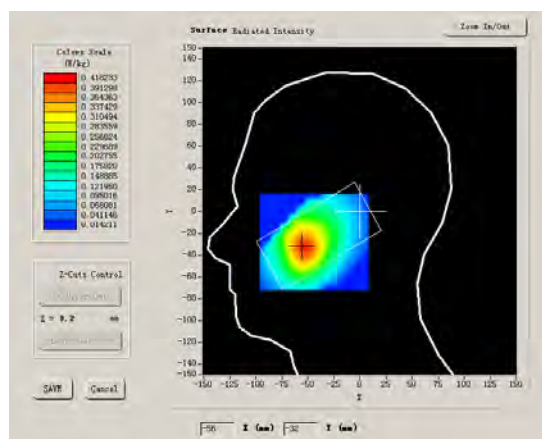
Phantom File	sam_direct_droit2_surf8mm.txt
Phantom	Left head
Device Position	Cheek
Band	GSM850
Channels	Low
Signal	GSM

B. SAR Measurement Results

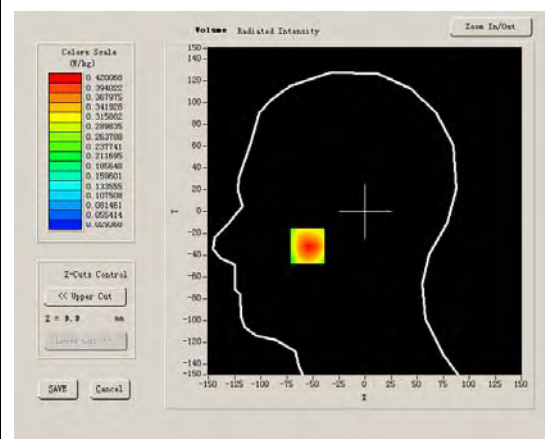
Lower Band SAR (Channel 128):

Frequency (MHz)	824.200012
Relative permittivity (real part)	41.790001
Relative permittivity	18.926250
Conductivity (S/m)	0.866612
Power drift (%)	-0.210000
Ambient Temperature:	23.4°C
Liquid Temperature:	22.9°C
ConvF:	28.479,25.214,27.196
Crest factor:	1:8

SURFACE SAR



VOLUME SAR



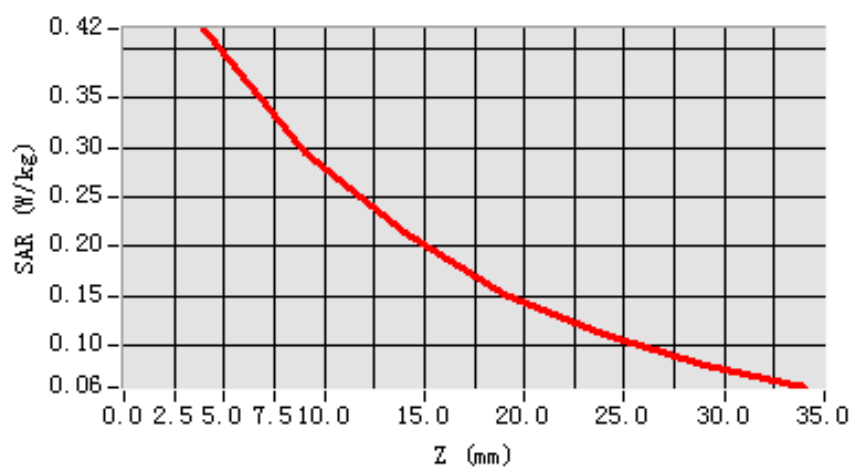
Maximum location: X=-55.00, Y=-32.00

SAR 10g (W/Kg)	0.268518
SAR 1g (W/Kg)	0.399725

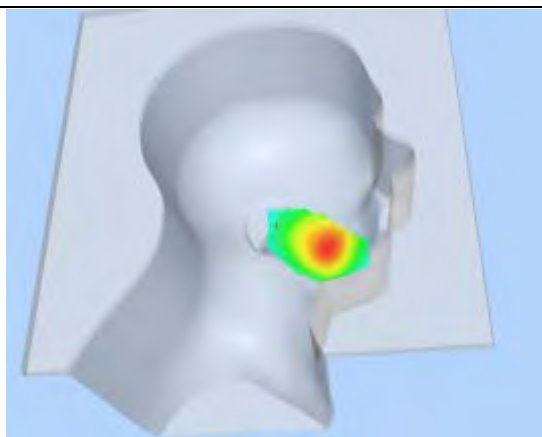
Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	0.4201	0.2939	0.2137	0.1510	0.1119	0.0796

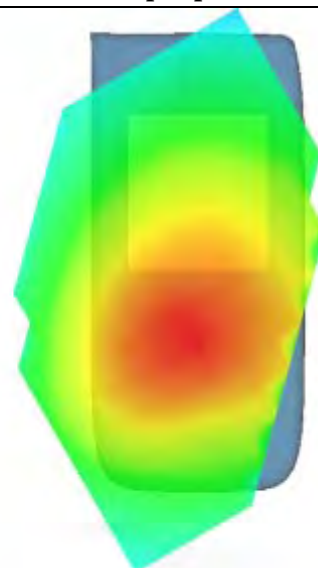
SAR, Z Axis Scan (X = -55, Y = -32)



3D sceen shot



Hot spot position



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: 12/10/2011

Measurement duration: 7 minutes 58 seconds

A. Experimental conditions.

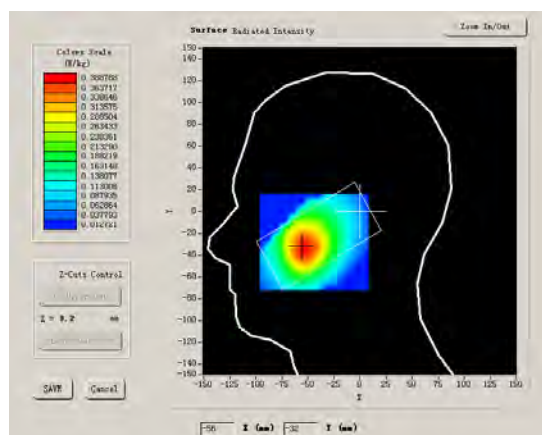
Phantom File	sam_direct_droit2_surf8mm.txt
Phantom	Left head
Device Position	Cheek
Band	GSM850
Channels	Middle
Signal	GSM

B. SAR Measurement Results

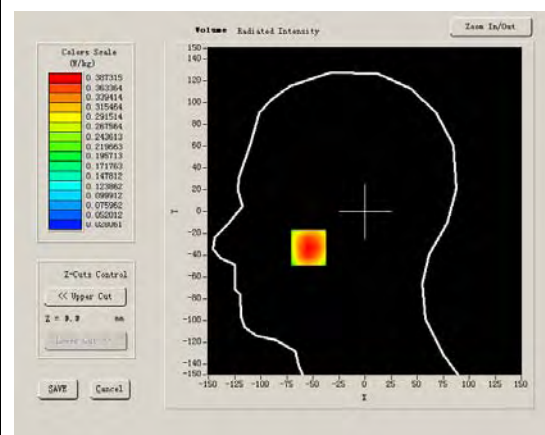
Middle Band SAR (Channel 190):

Frequency (MHz)	836.599976
Relative permittivity (real part)	40.669998
Relative permittivity	19.120001
Conductivity (S/m)	0.888655
Power drift (%)	-1.340000
Ambient Temperature:	23.4°C
Liquid Temperature:	22.9°C
ConvF:	28.479,25.214,27.196
Crest factor:	1:8

SURFACE SAR



VOLUME SAR



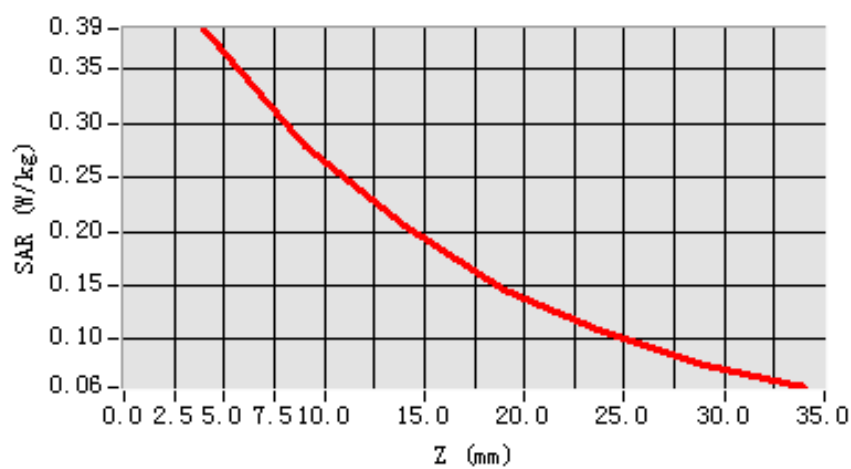
Maximum location: X=-54.00, Y=-33.00

SAR 10g (W/Kg)	0.256803
SAR 1g (W/Kg)	0.375570

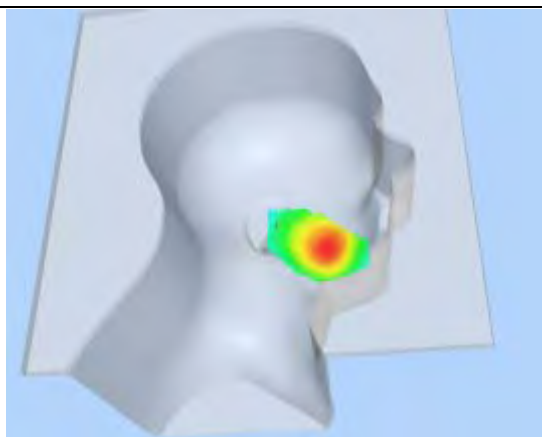
Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	0.3873	0.2792	0.2059	0.1466	0.1062	0.0755

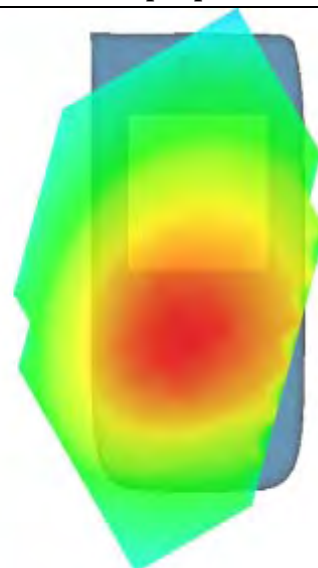
SAR, Z Axis Scan (X = -54, Y = -33)



3D sceen shot



Hot spot position



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: 12/10/2011

Measurement duration: 7 minutes 49 seconds

A. Experimental conditions.

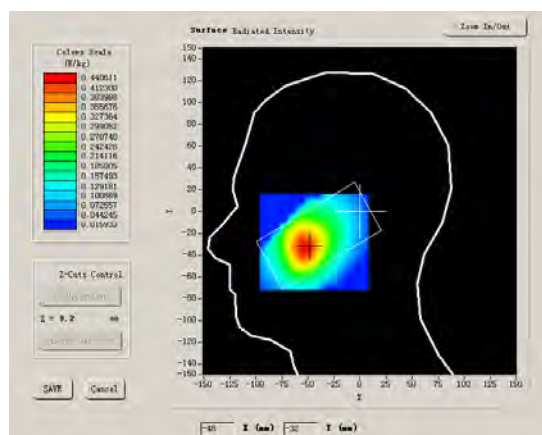
Phantom File	sam_direct_droit2_surf8mm.txt
Phantom	Left head
Device Position	Cheek
Band	GSM850
Channels	High
Signal	GSM

B. SAR Measurement Results

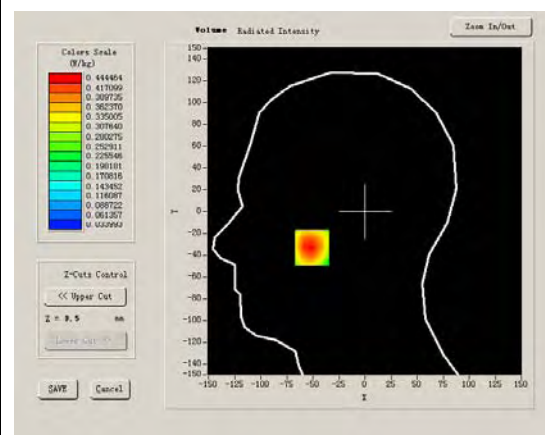
Higher Band SAR (Channel 251):

Frequency (MHz)	848.799988
Relative permittivity (real part)	41.675999
Relative permittivity	18.967199
Conductivity (S/m)	0.894409
Power drift (%)	-3.020000
Ambient Temperature:	22.8°C
Liquid Temperature:	22.7°C
ConvF:	28.479,25.214,27.196
Crest factor:	1:8

SURFACE SAR



VOLUME SAR



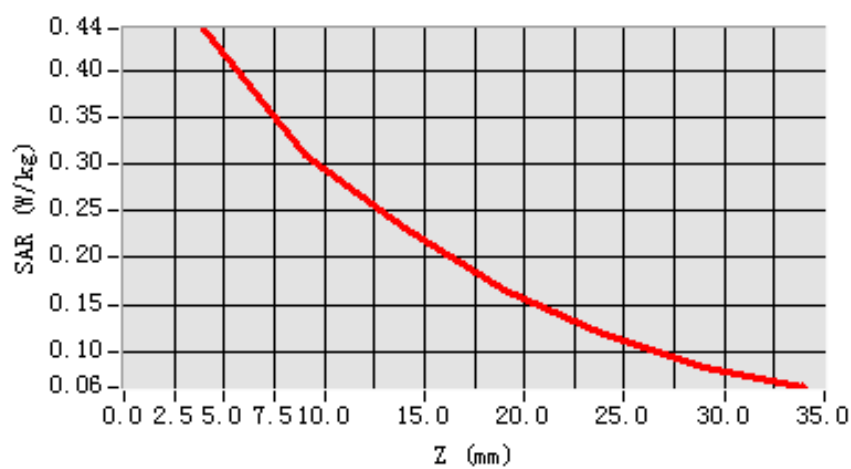
Maximum location: X=-51.00, Y=-33.00

SAR 10g (W/Kg)	0.288412
SAR 1g (W/Kg)	0.431547

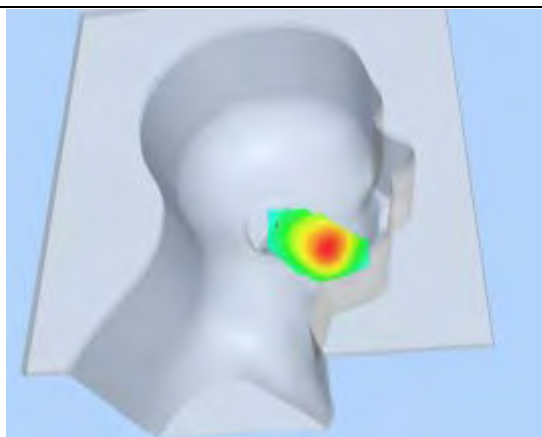
Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	0.4445	0.3097	0.2321	0.1667	0.1186	0.0828

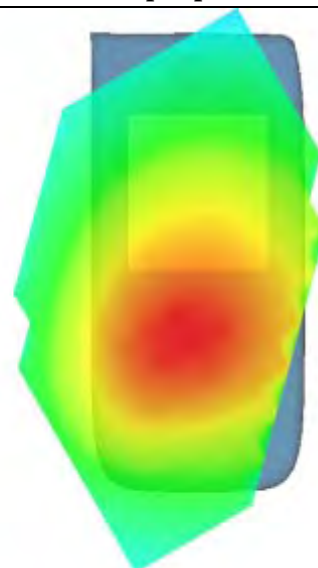
SAR, Z Axis Scan (X = -51, Y = -33)



3D sceen shot



Hot spot position



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: 12/10/2011

Measurement duration: 7 minutes 29 seconds

A. Experimental conditions.

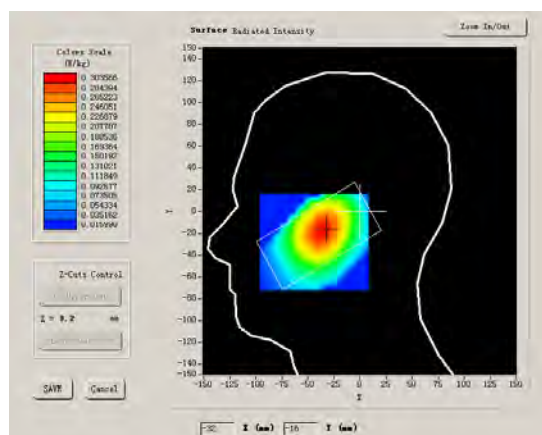
Phantom File	zinf3.txt
Phantom	Left head
Device Position	Tilt
Band	GSM850
Channels	Low
Signal	GSM

B. SAR Measurement Results

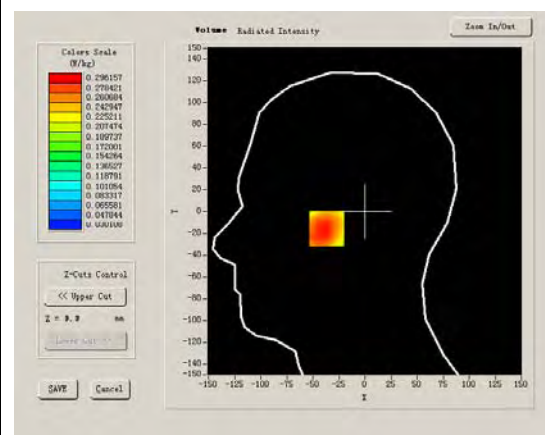
Lower Band SAR (Channel 128):

Frequency (MHz)	824.200012
Relative permittivity (real part)	41.790001
Relative permittivity	18.926250
Conductivity (S/m)	0.866612
Power drift (%)	-0.470000
Ambient Temperature:	22.2°C
Liquid Temperature:	21.5C
ConvF:	28.479,25.214,27.196
Crest factor:	1:8

SURFACE SAR



VOLUME SAR



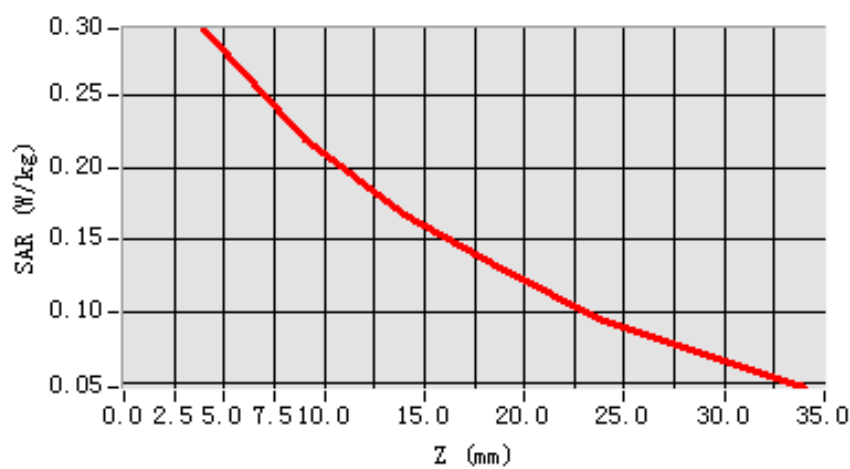
Maximum location: X=-33.00, Y=-16.00

SAR 10g (W/Kg)	0.205413
SAR 1g (W/Kg)	0.286409

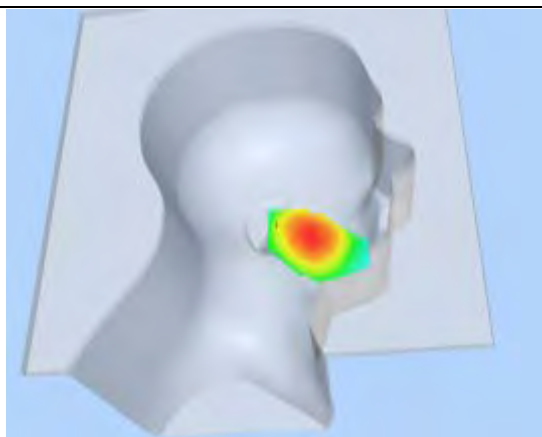
Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	0.2962	0.2191	0.1666	0.1279	0.0929	0.0704

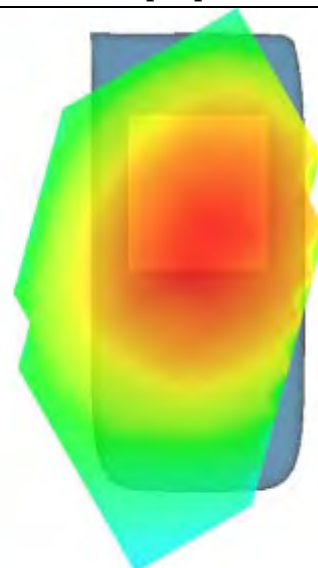
SAR, Z Axis Scan (X = -33, Y = -16)



3D sceen shot



Hot spot position



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: 12/10/2011

Measurement duration: 7 minutes 33 seconds

A. Experimental conditions.

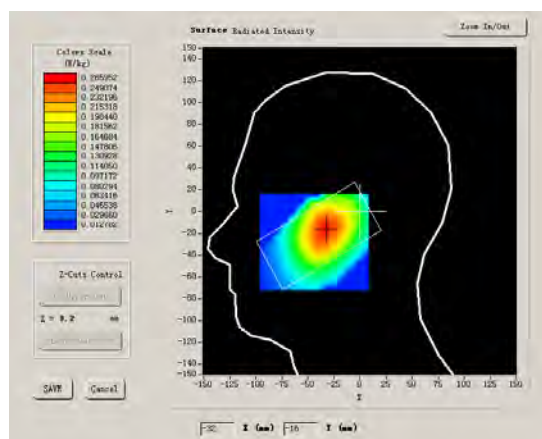
Phantom File	sam_direct_droit2_surf8mm.txt
Phantom	Left head
Device Position	Tilt
Band	GSM850
Channels	Middle
Signal	GSM

B. SAR Measurement Results

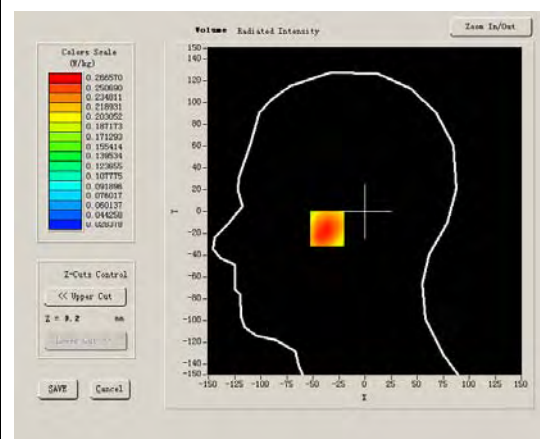
Middle Band SAR (Channel 190):

Frequency (MHz)	836.599976
Relative permittivity (real part)	40.669998
Relative permittivity	19.120001
Conductivity (S/m)	0.888655
Power drift (%)	-0.970000
Ambient Temperature:	22.8°C
Liquid Temperature:	22.7°C
ConvF:	28.479,25.214,27.196
Crest factor:	1:8

SURFACE SAR



VOLUME SAR



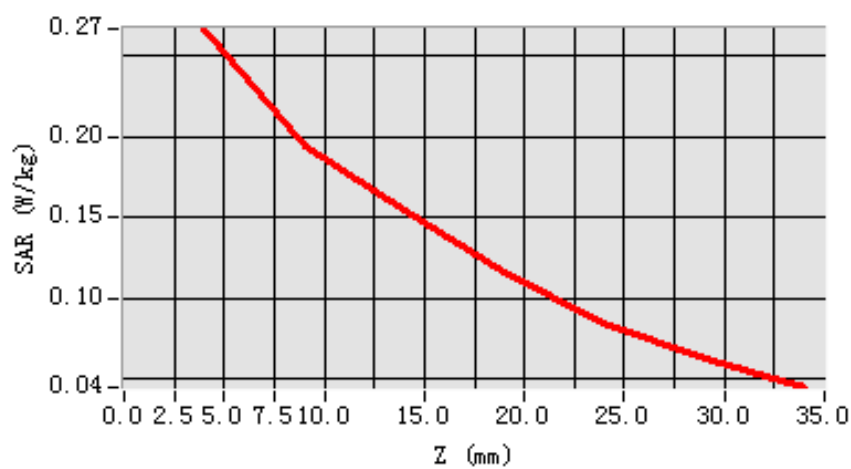
Maximum location: X=-32.00, Y=-16.00

SAR 10g (W/Kg)	0.184223
SAR 1g (W/Kg)	0.257900

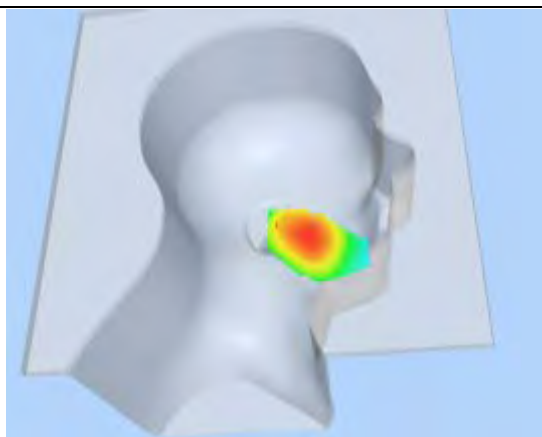
Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	0.2666	0.1938	0.1539	0.1163	0.0849	0.0624

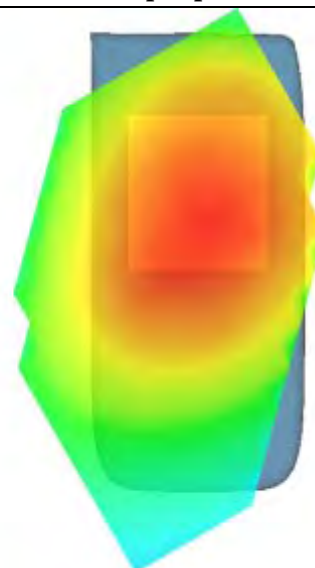
SAR, Z Axis Scan (X = -32, Y = -16)



3D sceen shot



Hot spot position



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: 12/10/2011

Measurement duration: 7 minutes 33 seconds

A. Experimental conditions.

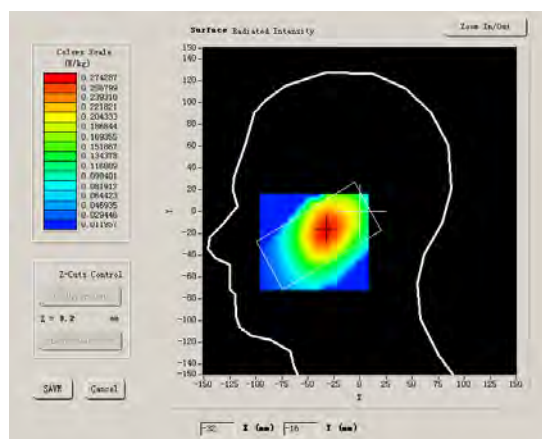
Phantom File	sam_direct_droit2_surf8mm.txt
Phantom	Left head
Device Position	Tilt
Band	GSM850
Channels	High
Signal	GSM

B. SAR Measurement Results

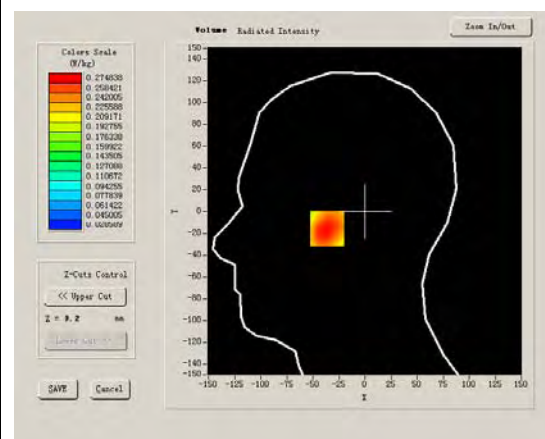
Higher Band SAR (Channel 251):

Frequency (MHz)	848.799988
Relative permittivity (real part)	41.675999
Relative permittivity	18.967199
Conductivity (S/m)	0.894409
Power drift (%)	-0.070000
Ambient Temperature:	22.8°C
Liquid Temperature:	22.7°C
ConvF:	28.479,25.214,27.196
Crest factor:	1:8

SURFACE SAR



VOLUME SAR



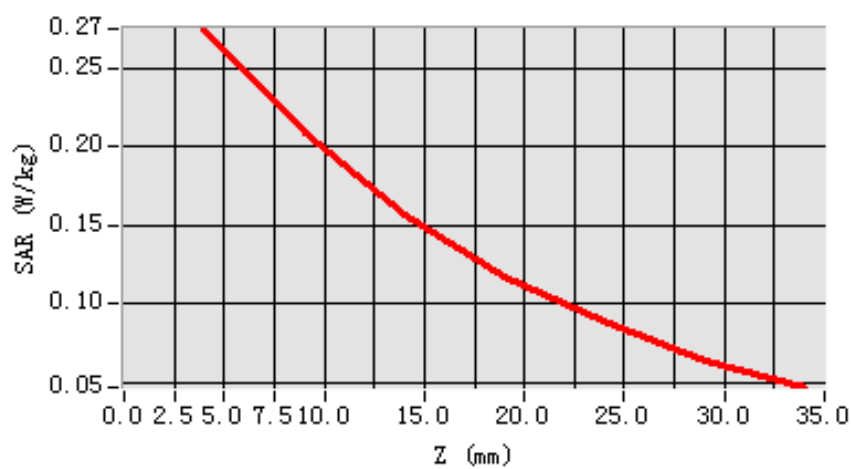
Maximum location: X=-32.00, Y=-16.00

SAR 10g (W/Kg)	0.189743
SAR 1g (W/Kg)	0.267157

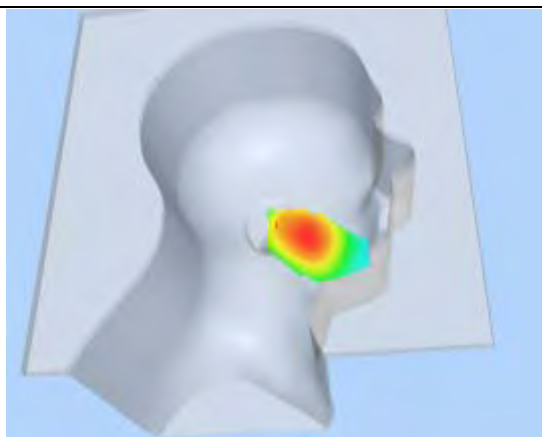
Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	0.2748	0.2090	0.1565	0.1174	0.0884	0.0642

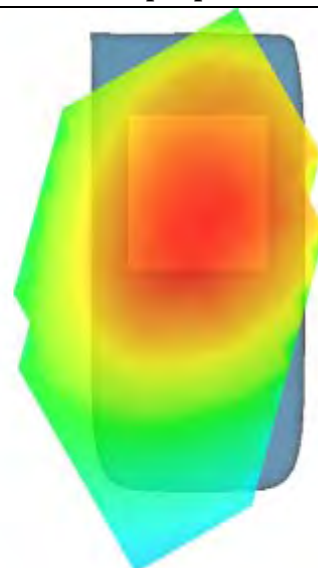
SAR, Z Axis Scan (X = -32, Y = -16)



3D sceen shot



Hot spot position



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: 12/10/2011

Measurement duration: 9 minutes 7 seconds

A. Experimental conditions.

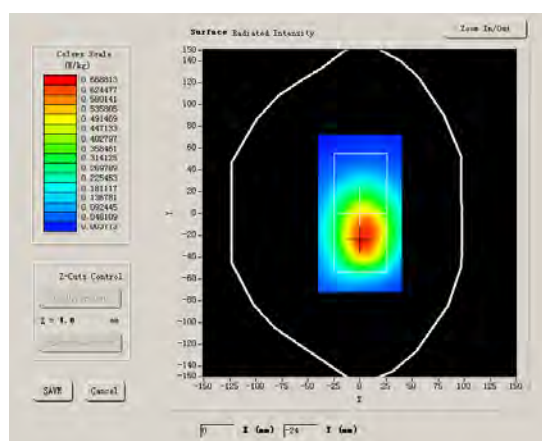
Phantom File	surf_sam_plan.txt
Phantom	Validation plane
Device Position	Body
Band	GSM850
Channels	High
Signal	GSM

B. SAR Measurement Results

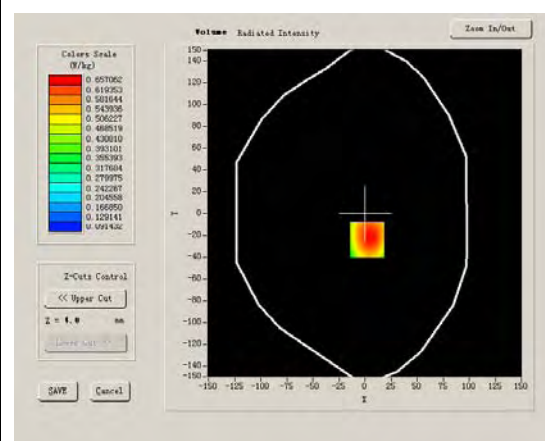
Higher Band SAR (Channel 251):

Frequency (MHz)	848.799988
Relative permittivity (real part)	54.014999
Relative permittivity	21.332850
Conductivity (S/m)	1.005962
Power drift (%)	-0.460000
Ambient Temperature:	22.8°C
Liquid Temperature:	22.7°C
ConvF:	28.479,25.214,27.196
Crest factor:	1:8

SURFACE SAR



VOLUME SAR



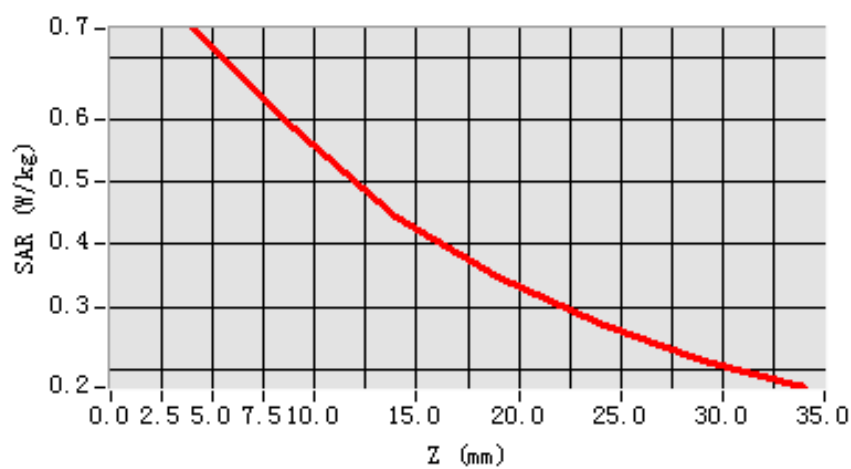
Maximum location: X=2.00, Y=-24.00

SAR 10g (W/Kg)	0.534783
SAR 1g (W/Kg)	0.727063

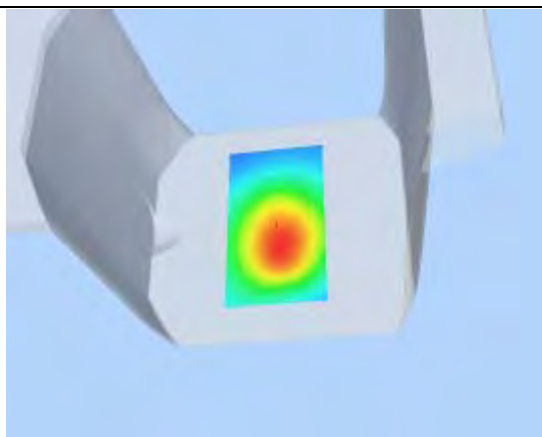
Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	0.7461	0.5849	0.4460	0.3473	0.2750	0.2154

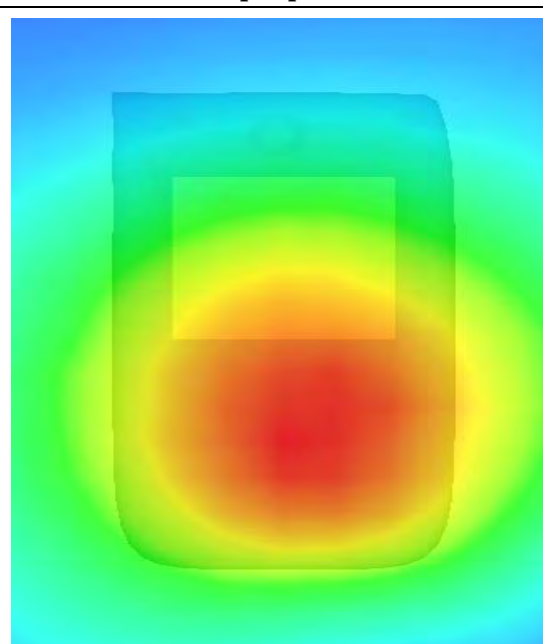
SAR, Z Axis Scan (X = 2, Y = -24)



3D scene shot



Hot spot position



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: 12/10/2011

Measurement duration: 9 minutes 18 seconds

A. Experimental conditions.

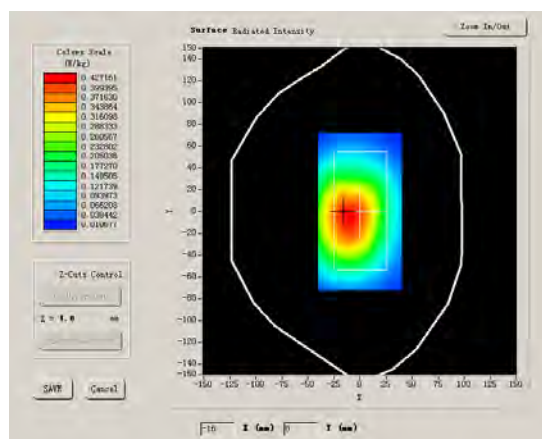
Phantom File	surf_sam_plan.txt
Phantom	Validation plane
Device Position	Body
Band	GSM850
Channels	High
Signal	GSM

B. SAR Measurement Results

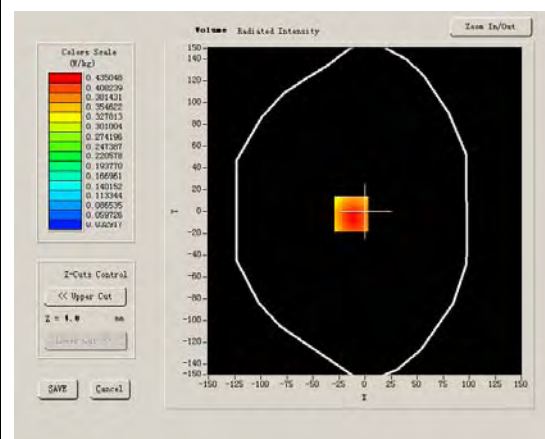
Higher Band SAR (Channel 251):

Frequency (MHz)	848.799988
Relative permittivity (real part)	54.014999
Relative permittivity	21.332850
Conductivity (S/m)	1.005962
Power drift (%)	-1.370000
Ambient Temperature:	22.8°C
Liquid Temperature:	22.7°C
ConvF:	28.479,25.214,27.196
Crest factor:	1:8

SURFACE SAR



VOLUME SAR



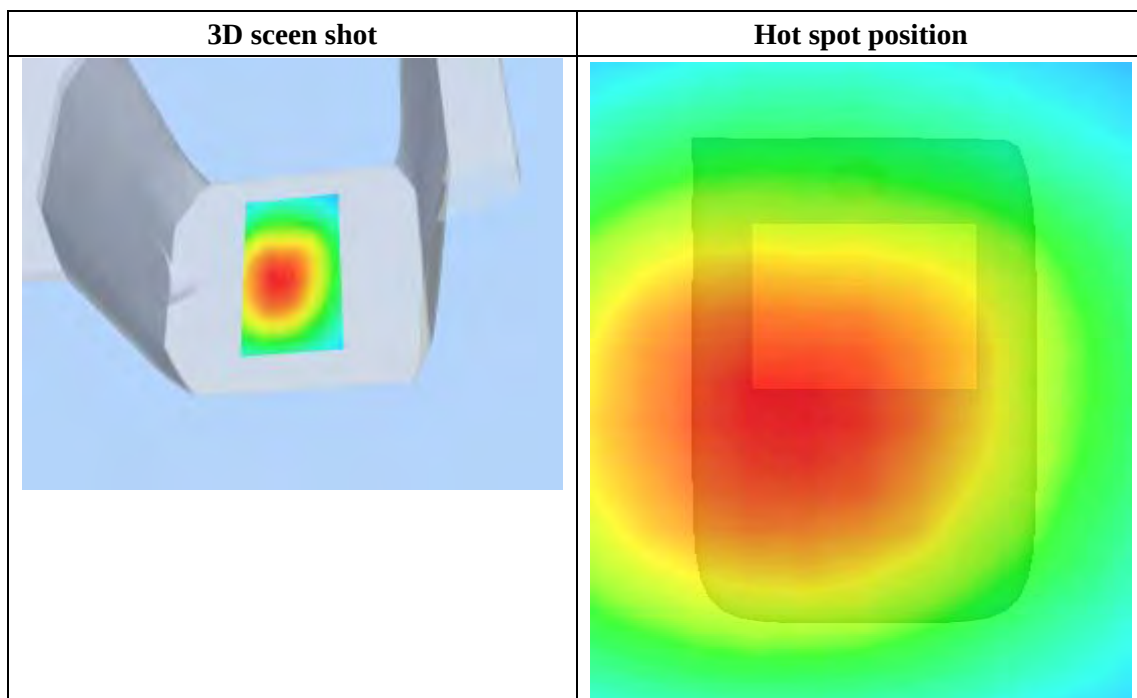
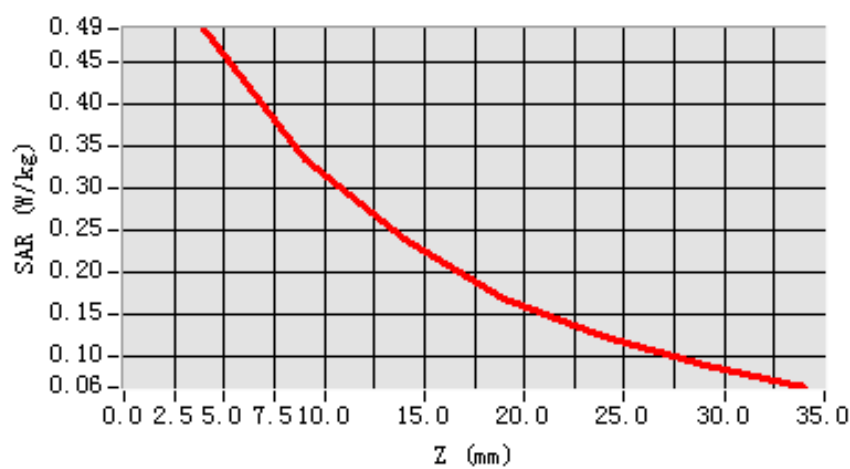
Maximum location: X=-13.00, Y=-2.00

SAR 10g (W/Kg)	0.326849
SAR 1g (W/Kg)	0.476199

Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	0.4893	0.3357	0.2407	0.1702	0.1247	0.0896

SAR, Z Axis Scan (X = -13, Y = -2)



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: 12/10/2011

Measurement duration: 9 minutes 9 seconds

A. Experimental conditions.

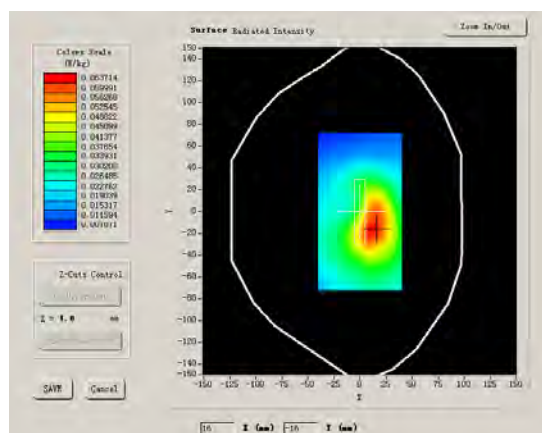
Phantom File	surf_sam_plan.txt
Phantom	Validation plane
Device Position	Body
Band	GSM850
Channels	High
Signal	GSM

B. SAR Measurement Results

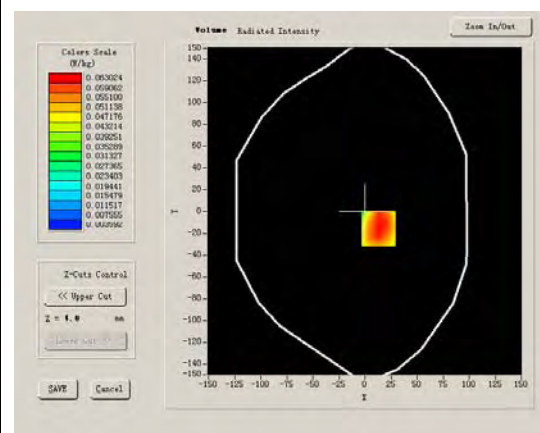
Higher Band SAR (Channel 251):

Frequency (MHz)	848.799988
Relative permittivity (real part)	54.014999
Relative permittivity	21.332850
Conductivity (S/m)	1.005962
Power drift (%)	0.770000
Ambient Temperature:	22.6°C
Liquid Temperature:	22.8°C
ConvF:	28.479,25.214,27.196
Crest factor:	1:8

SURFACE SAR



VOLUME SAR



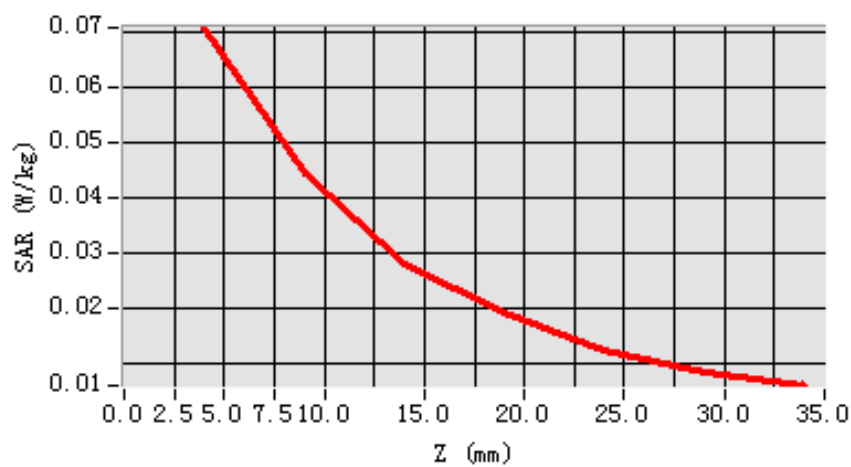
Maximum location: X=13.00, Y=-16.00

SAR 10g (W/Kg)	0.043443
SAR 1g (W/Kg)	0.068570

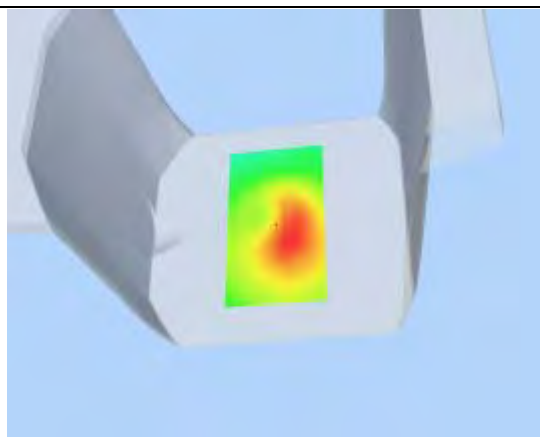
Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	0.0709	0.0444	0.0281	0.0191	0.0126	0.0084

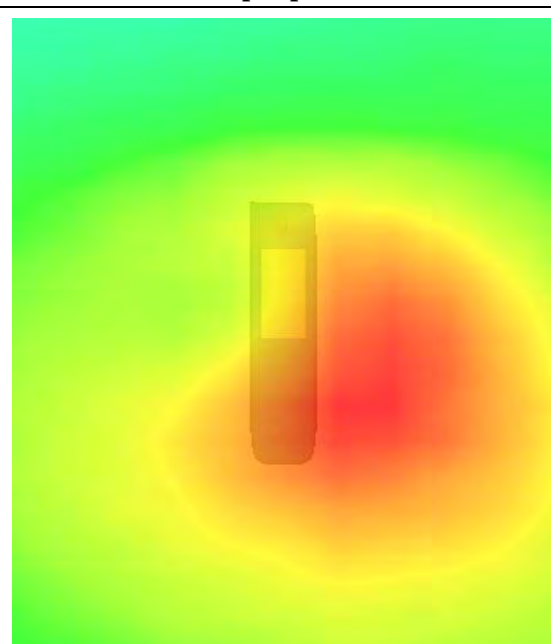
SAR, Z Axis Scan (X = 13, Y = -16)



3D sceen shot



Hot spot position



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: 12/10/2011

Measurement duration: 9 minutes 12 seconds

A. Experimental conditions.

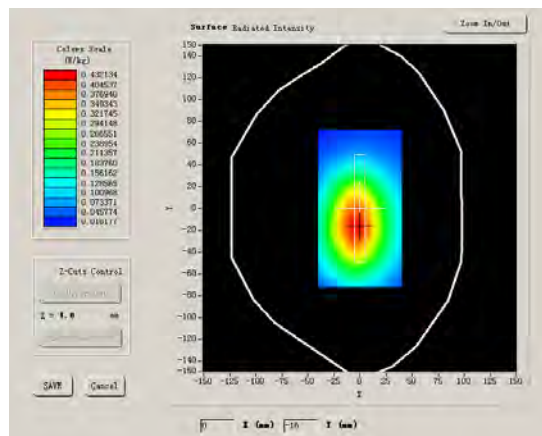
Phantom File	surf_sam_plan.txt
Phantom	Validation plane
Device Position	Body
Band	GSM850
Channels	High
Signal	GSM

B. SAR Measurement Results

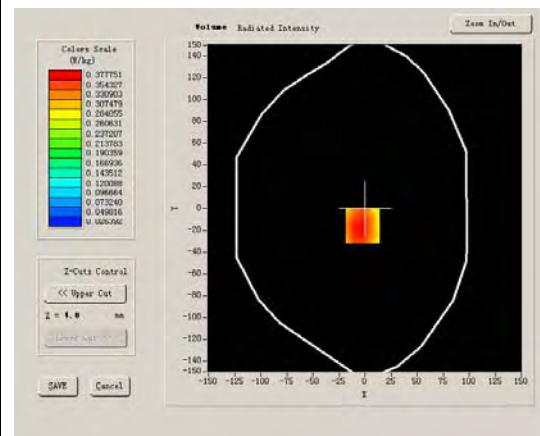
Higher Band SAR (Channel 251):

Frequency (MHz)	848.799988
Relative permittivity (real part)	54.014999
Relative permittivity	21.332850
Conductivity (S/m)	1.005962
Power drift (%)	-39.369999
Ambient Temperature:	22.6°C
Liquid Temperature:	22.8°C
ConvF:	28.479,25.214,27.196
Crest factor:	1:2

SURFACE SAR



VOLUME SAR



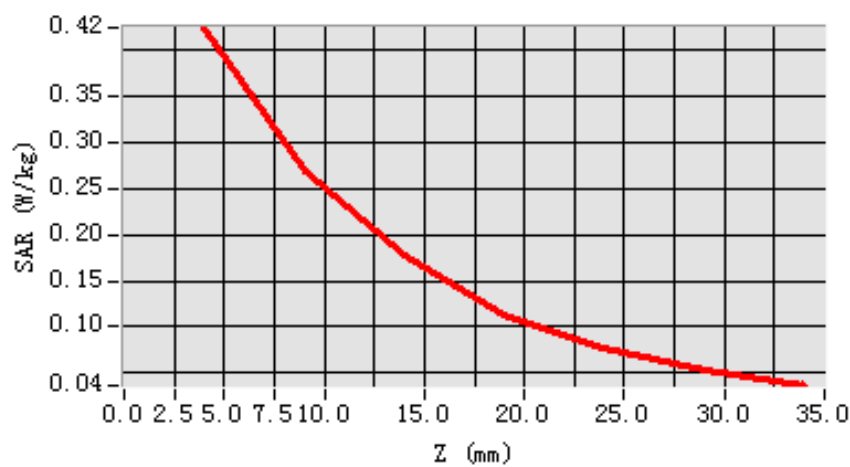
Maximum location: X=-2.00, Y=-16.00

SAR 10g (W/Kg)	0.264370
SAR 1g (W/Kg)	0.414649

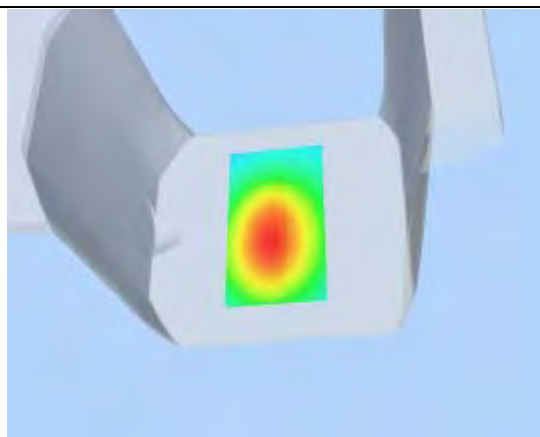
Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	0.4249	0.2686	0.1774	0.1134	0.0781	0.0536

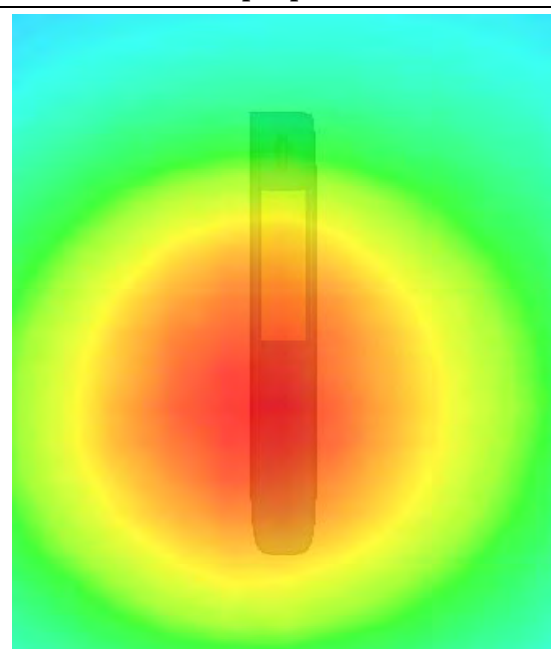
SAR, Z Axis Scan (X = -2, Y = -16)



3D sceen shot



Hot spot position



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: 12/10/2011

Measurement duration: 9 minutes 11 seconds

A. Experimental conditions.

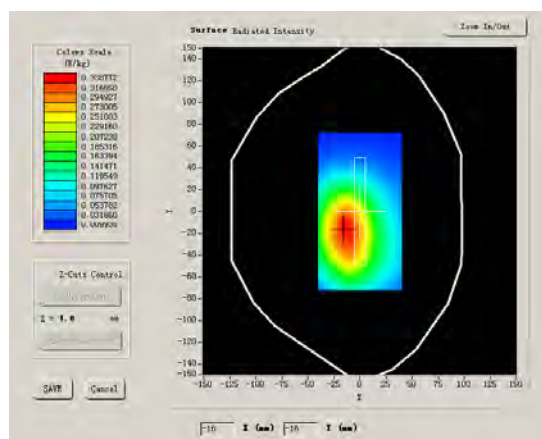
Phantom File	surf_sam_plan.txt
Phantom	Validation plane
Device Position	Body
Band	GSM850
Channels	High
Signal	GSM

B. SAR Measurement Results

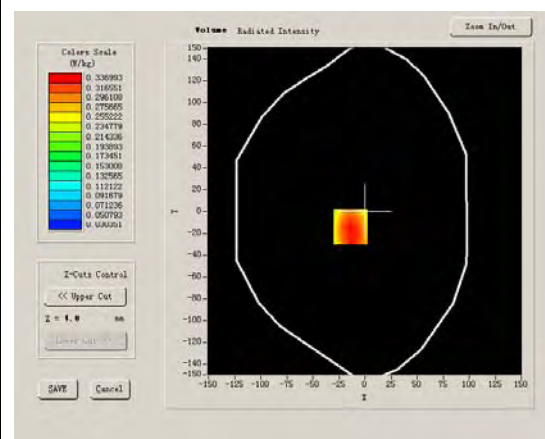
Higher Band SAR (Channel 251):

Frequency (MHz)	848.799988
Relative permittivity (real part)	54.014999
Relative permittivity	21.332850
Conductivity (S/m)	1.005962
Power drift (%)	-0.500000
Ambient Temperature:	22.6°C
Liquid Temperature:	22.8°C
ConvF:	28.479,25.214,27.196
Crest factor:	1:8

SURFACE SAR



VOLUME SAR



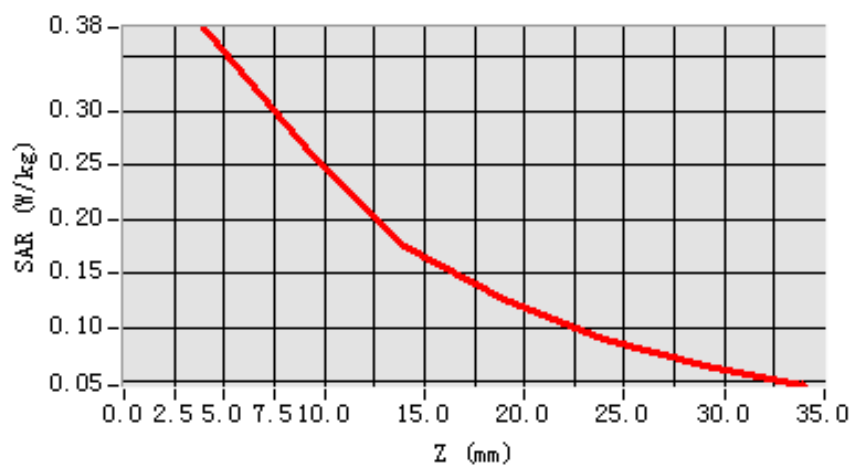
Maximum location: X=-14.00, Y=-14.00

SAR 10g (W/Kg)	0.246327
SAR 1g (W/Kg)	0.362344

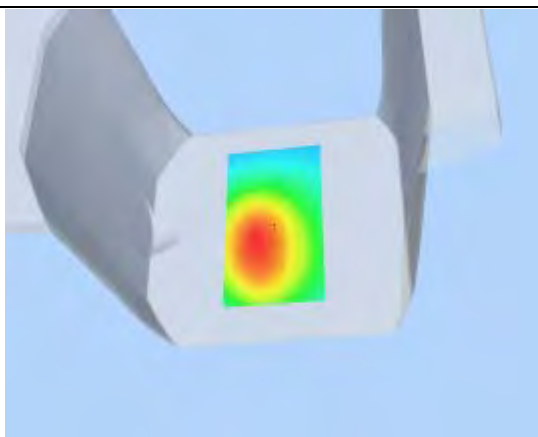
Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	0.3773	0.2667	0.1749	0.1266	0.0880	0.0637

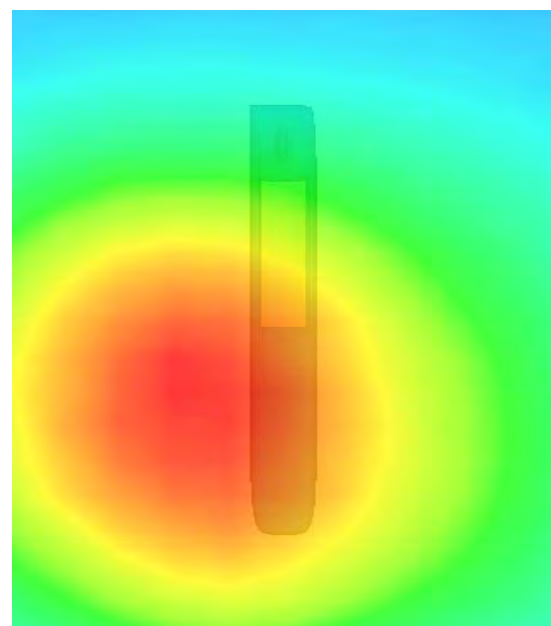
SAR, Z Axis Scan (X = -14, Y = -14)



3D scene shot



Hot spot position



MEASUREMENT 18

Type: Phone measurement (Complete)

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

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

Date of measurement: 12/10/2011

Measurement duration: 9 minutes 11 seconds

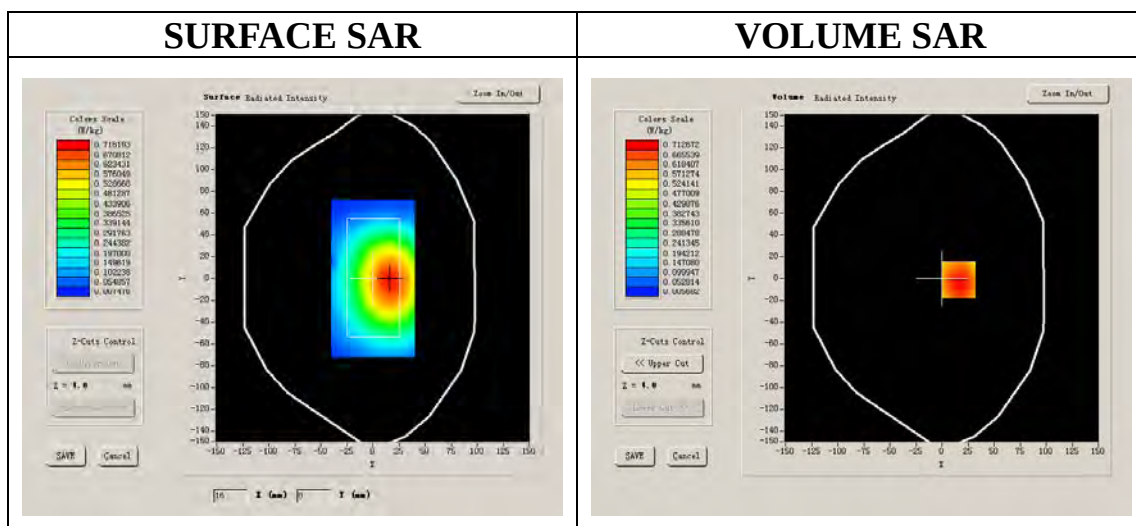
A. Experimental conditions.

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

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
Power drift (%)	-1.900000
Ambient Temperature:	22.8°C
Liquid Temperature:	22.7°C
ConvF:	28.479,25.214,27.196
Crest factor:	1:2



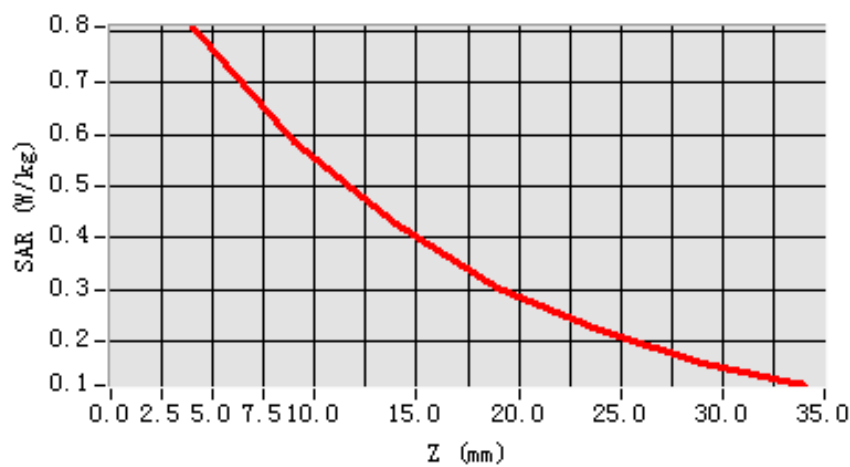
Maximum location: X=16.00, Y=-1.00

SAR 10g (W/Kg)	0.545331
SAR 1g (W/Kg)	0.786599

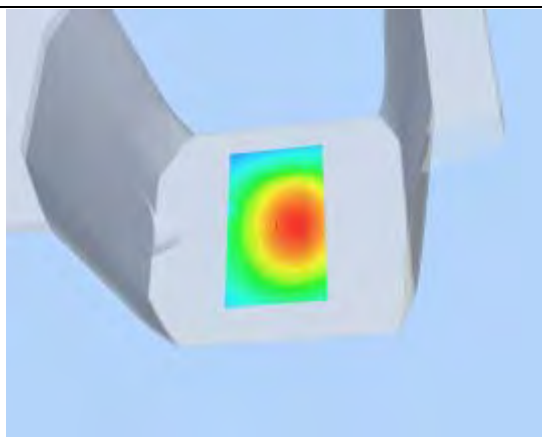
Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	0.8092	0.5862	0.4262	0.3017	0.2213	0.1559

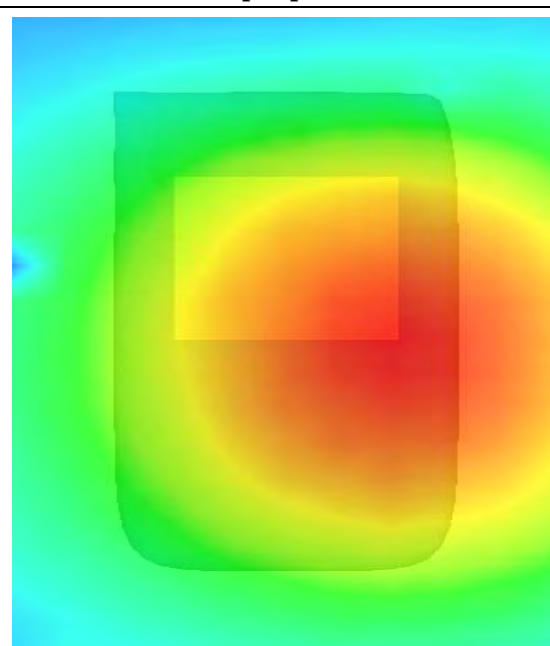
SAR, Z Axis Scan (X = 16, Y = -1)



3D scene shot



Hot spot position



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: 12/10/2011

Measurement duration: 9 minutes 11 seconds

A. Experimental conditions.

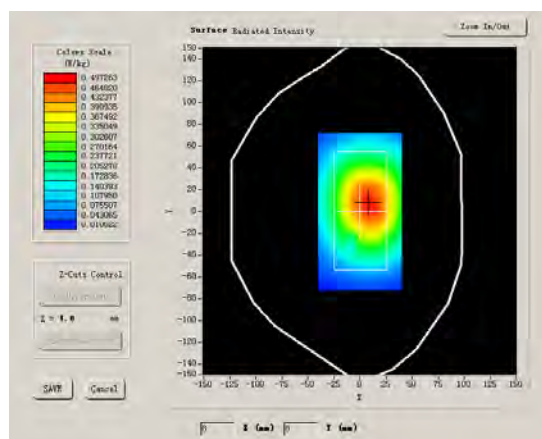
Phantom File	surf_sam_plan.txt
Phantom	Validation plane
Device Position	Body
Band	GSM850
Channels	Low
Signal	EDGE

B. SAR Measurement Results

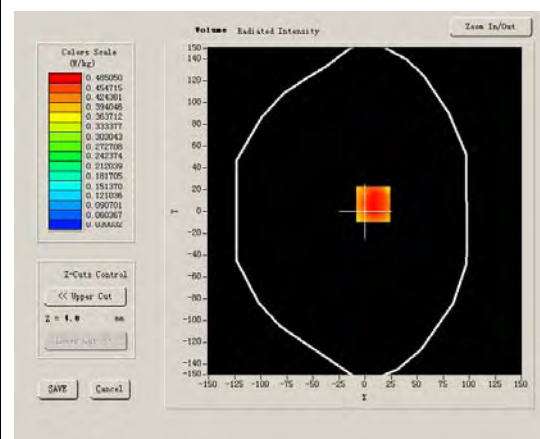
Lower Band SAR (Channel 128):

Frequency (MHz)	824.200012
Relative permittivity (real part)	54.116001
Relative permittivity	21.284550
Conductivity (S/m)	0.974596
Power drift (%)	-1.900000
Ambient Temperature:	22.8°C
Liquid Temperature:	22.7°C
ConvF:	28.479,25.214,27.196
Crest factor:	1:2

SURFACE SAR



VOLUME SAR



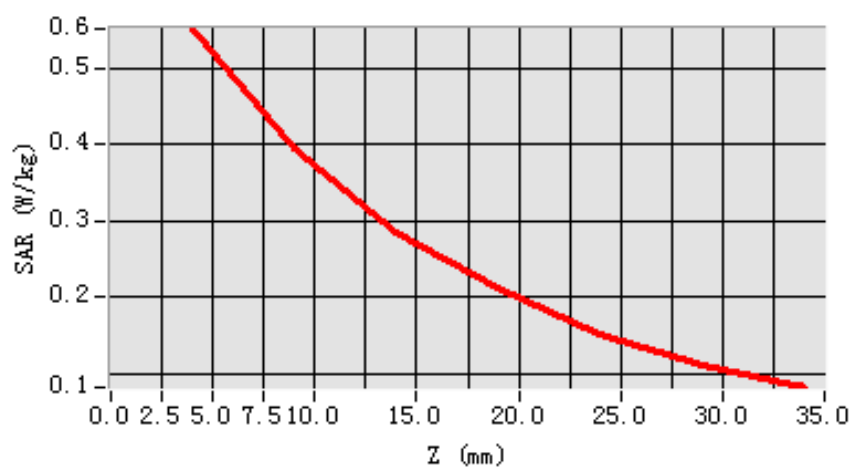
Maximum location: X=8.00, Y=7.00

SAR 10g (W/Kg)	0.373656
SAR 1g (W/Kg)	0.529128

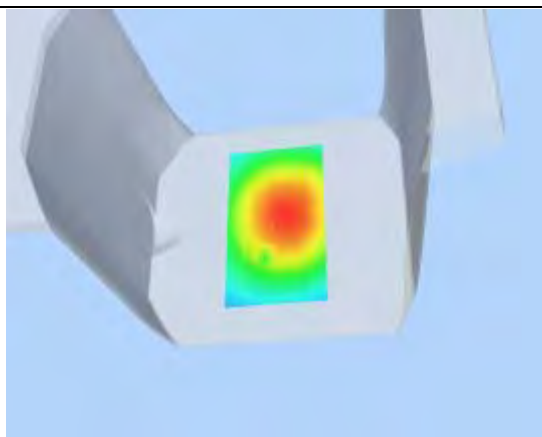
Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	0.5508	0.3949	0.2842	0.2112	0.1525	0.1095

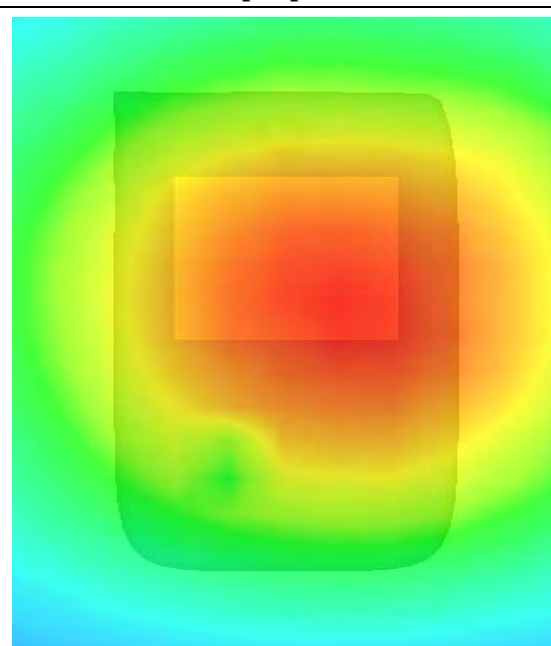
SAR, Z Axis Scan (X = 8, Y = 7)



3D sceen shot



Hot spot position



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: 12/10/2011

Measurement duration: 9 minutes 7 seconds

A. Experimental conditions.

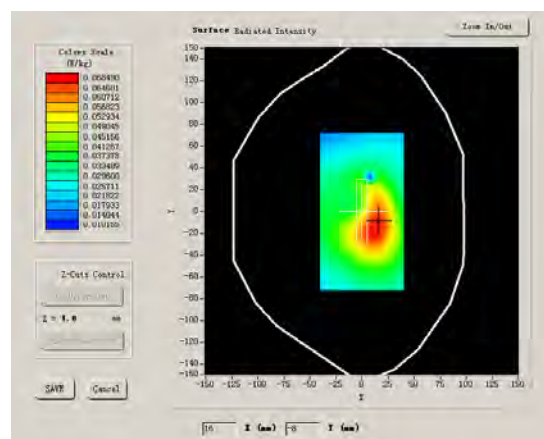
Phantom File	surf_sam_plan.txt
Phantom	Validation plane
Device Position	Body
Band	GSM850
Channels	Low
Signal	EDGE

B. SAR Measurement Results

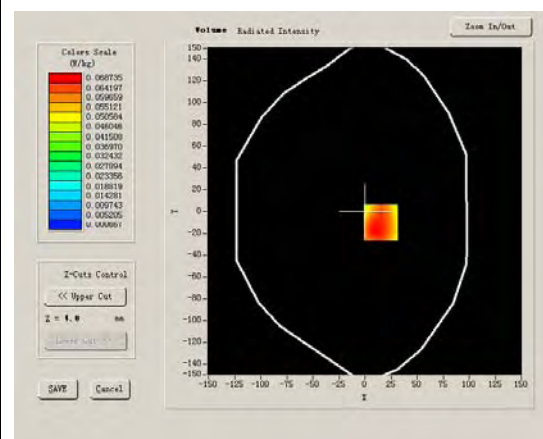
Lower Band SAR (Channel 128):

Frequency (MHz)	824.200012
Relative permittivity (real part)	54.116001
Relative permittivity	21.284550
Conductivity (S/m)	0.974596
Power drift (%)	-1.310000
Ambient Temperature:	22.6°C
Liquid Temperature:	22.8°C
ConvF:	28.479,25.214,27.196
Crest factor:	1:2

SURFACE SAR



VOLUME SAR



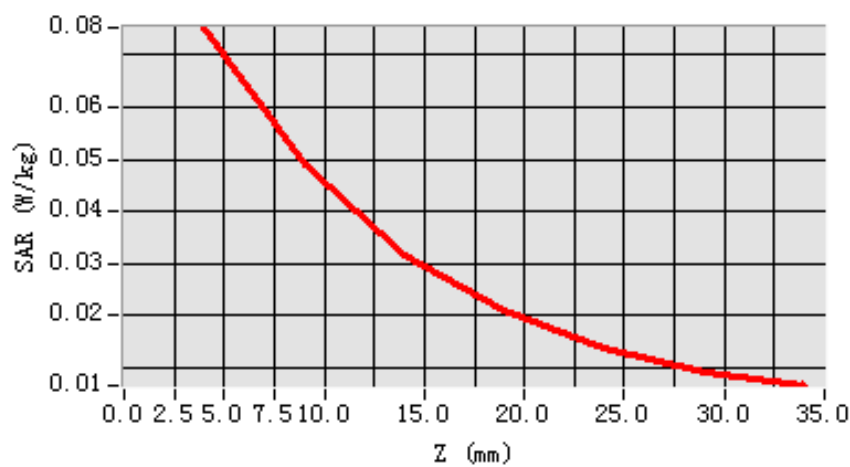
Maximum location: X=15.00, Y=-10.00

SAR 10g (W/Kg)	0.046463
SAR 1g (W/Kg)	0.074251

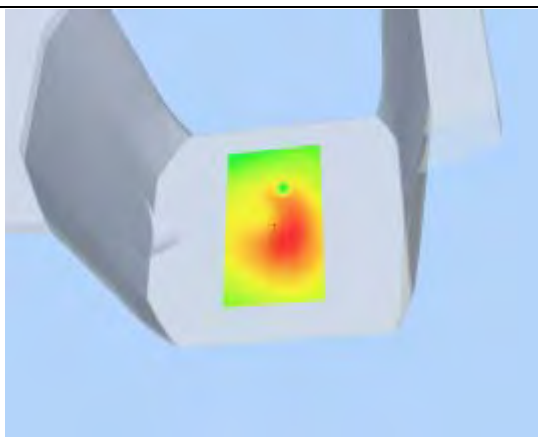
Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	0.0753	0.0490	0.0318	0.0208	0.0136	0.0092

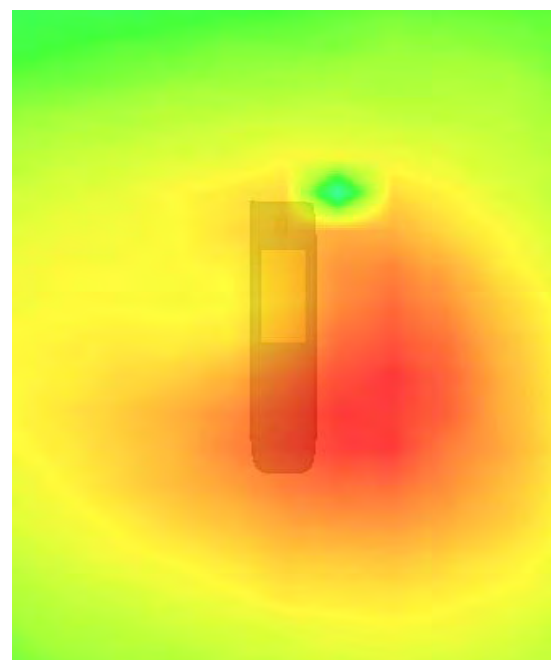
SAR, Z Axis Scan (X = 15, Y = -10)



3D sceen shot



Hot spot position



MEASUREMENT 21

Type: Phone measurement (Complete)

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

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

Date of measurement: 12/10/2011

Measurement duration: 9 minutes 10 seconds

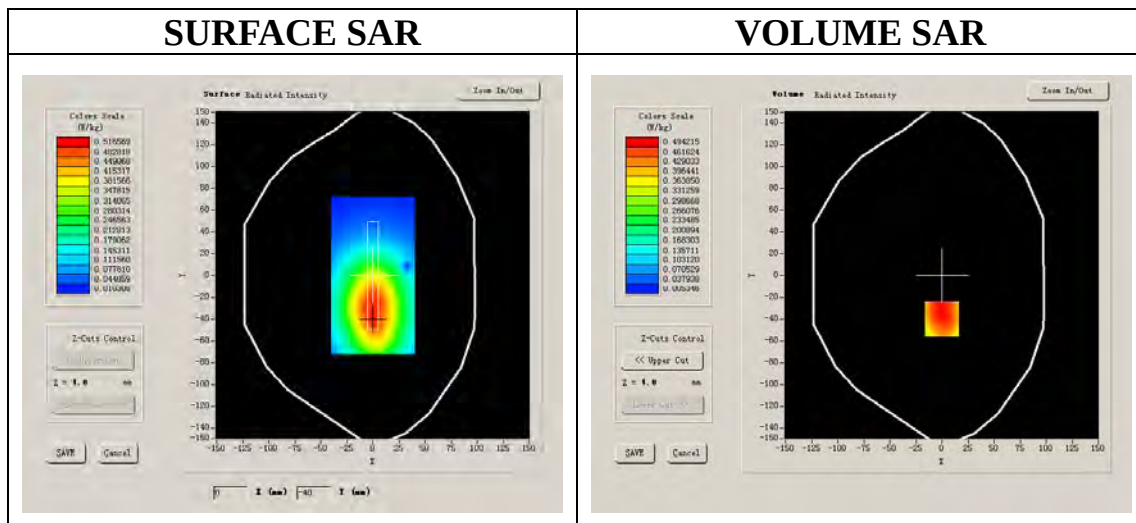
A. Experimental conditions.

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

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
Power drift (%)	-3.540000
Ambient Temperature:	22.6°C
Liquid Temperature:	22.8°C
ConvF:	28.479,25.214,27.196
Crest factor:	1:2



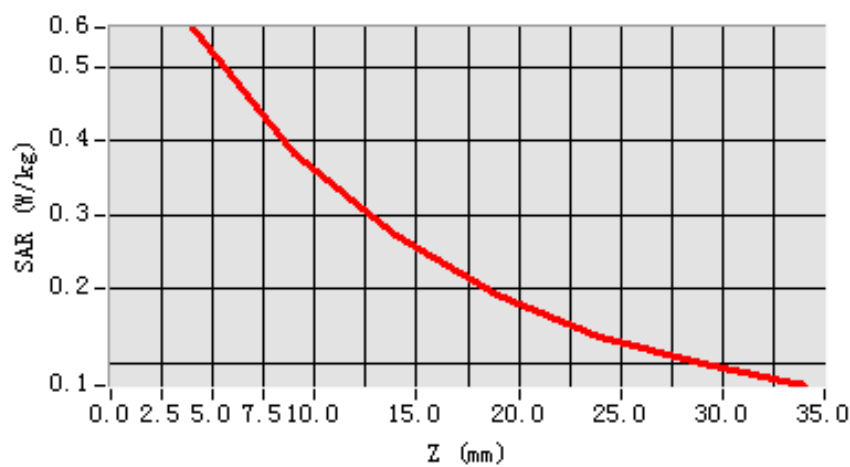
Maximum location: X=0.00, Y=-40.00

SAR 10g (W/Kg)	0.362136
SAR 1g (W/Kg)	0.533572

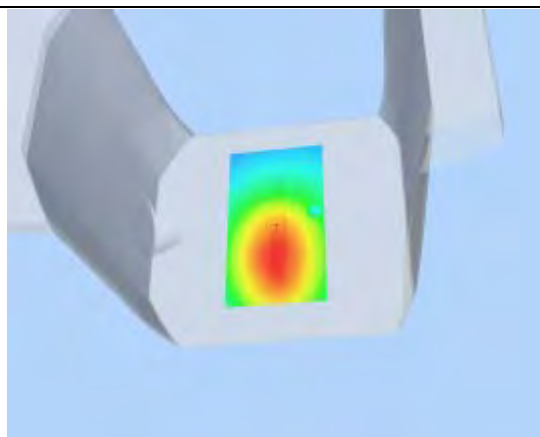
Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	0.5532	0.3824	0.2722	0.1910	0.1344	0.0980

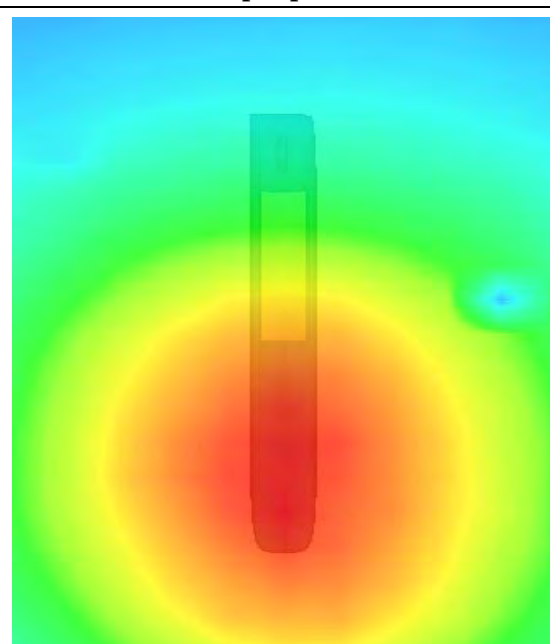
SAR, Z Axis Scan (X = 0, Y = -40)



3D scene shot



Hot spot position



MEASUREMENT 22

Type: Phone measurement (Complete)

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

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

Date of measurement: 12/10/2011

Measurement duration: 9 minutes 24 seconds

A. Experimental conditions.

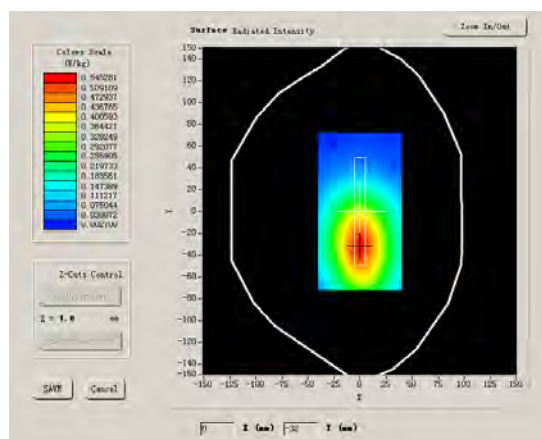
Phantom File	surf_sam_plan.txt
Phantom	Validation plane
Device Position	Body
Band	GSM850
Channels	Low
Signal	EDGE

B. SAR Measurement Results

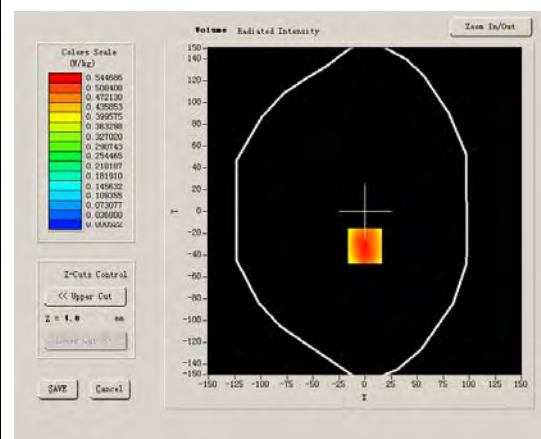
Lower Band SAR (Channel 128):

Frequency (MHz)	824.200012
Relative permittivity (real part)	54.116001
Relative permittivity	21.284550
Conductivity (S/m)	0.974596
Power drift (%)	-2134.459961
Ambient Temperature:	22.6°C
Liquid Temperature:	22.8°C
ConvF:	28.479,25.214,27.196
Crest factor:	1:2

SURFACE SAR



VOLUME SAR



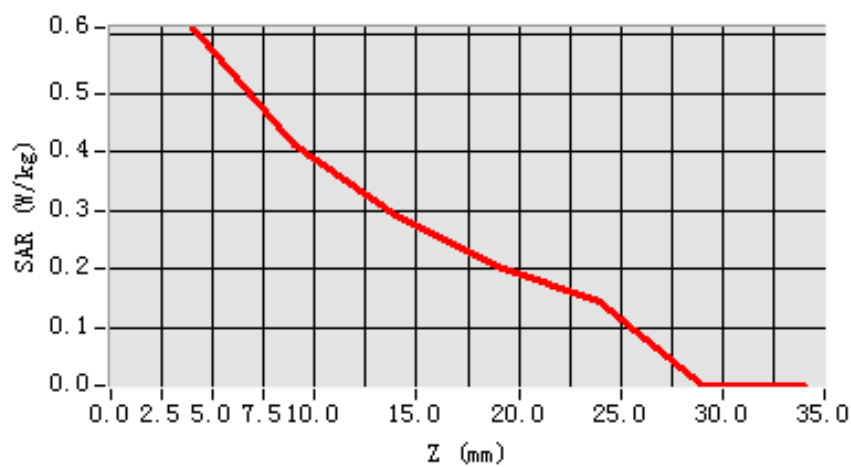
Maximum location: X=0.00, Y=-32.00

SAR 10g (W/Kg)	0.401194
SAR 1g (W/Kg)	0.612937

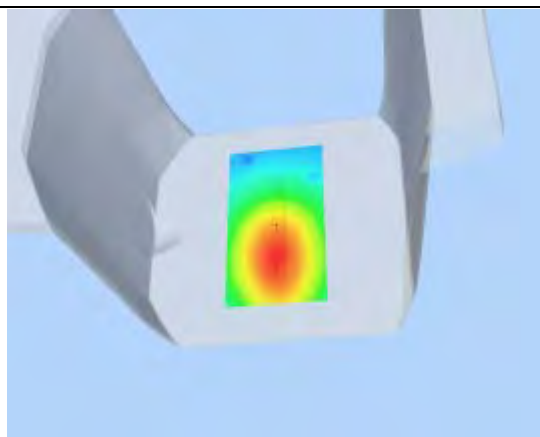
Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	0.6126	0.4124	0.2901	0.2038	0.1443	0.0007

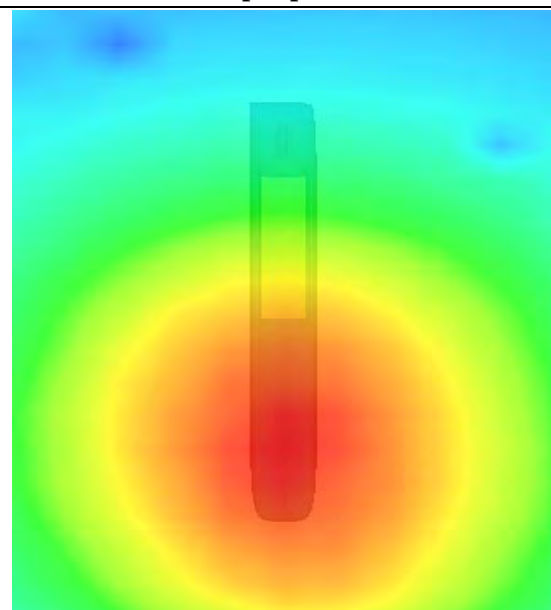
SAR, Z Axis Scan (X = 0, Y = -32)



3D scene shot



Hot spot position



MEASUREMENT 23

Type: Phone measurement (Complete)

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

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

Date of measurement: 12/10/2011

Measurement duration: 9 minutes 15 seconds

A. Experimental conditions.

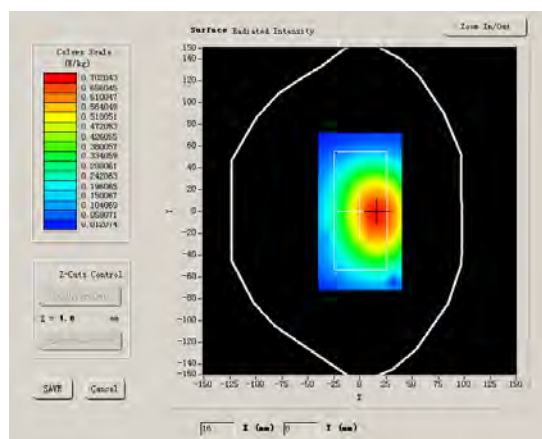
Phantom File	surf_sam_plan.txt
Phantom	Validation plane
Device Position	Body
Band	GSM850
Channels	Low
Signal	GPRS

B. SAR Measurement Results

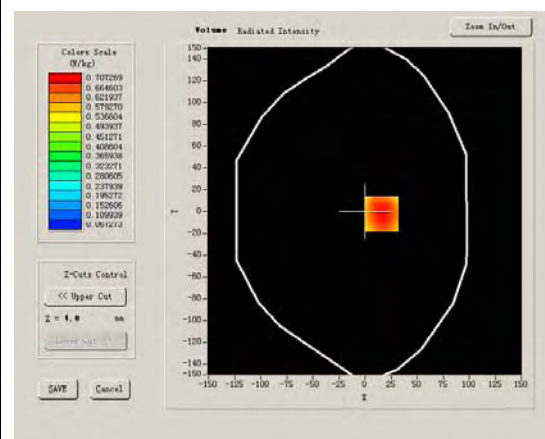
Middle Band SAR (Channel 128):

Frequency (MHz)	824.200012
Relative permittivity (real part)	54.116001
Relative permittivity	21.284550
Conductivity (S/m)	0.974596
Power drift (%)	0.480000
Ambient Temperature:	22.8°C
Liquid Temperature:	22.7°C
ConvF:	28.479,25.214,27.196
Crest factor:	1:2

SURFACE SAR



VOLUME SAR



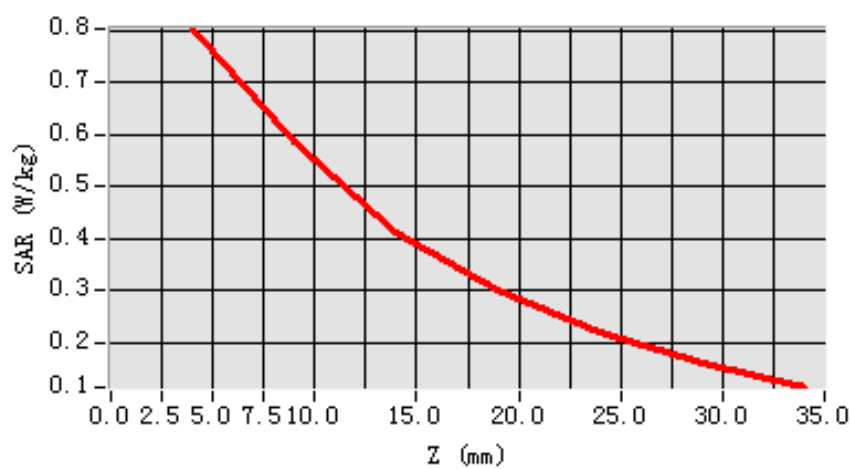
Maximum location: X=16.00, Y=-2.00

SAR 10g (W/Kg)	0.541562
SAR 1g (W/Kg)	0.775194

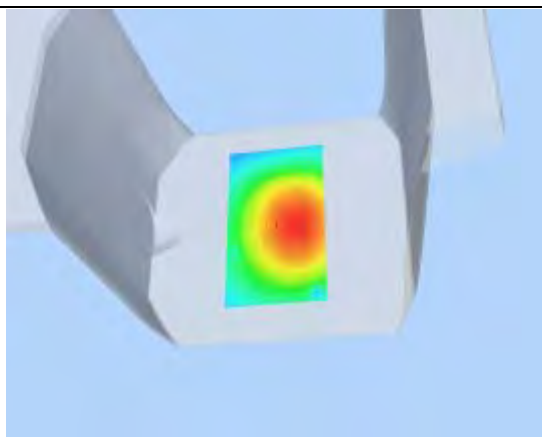
Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	0.8031	0.5868	0.4102	0.3033	0.2227	0.1631

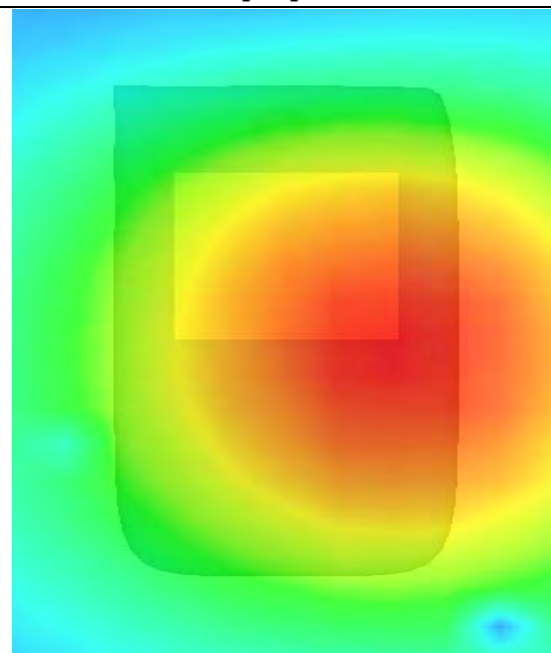
SAR, Z Axis Scan (X = 16, Y = -2)



3D scene shot



Hot spot position



MEASUREMENT 24

Type: Phone measurement (Complete)

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

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

Date of measurement: 12/10/2011

Measurement duration: 9 minutes 8 seconds

A. Experimental conditions.

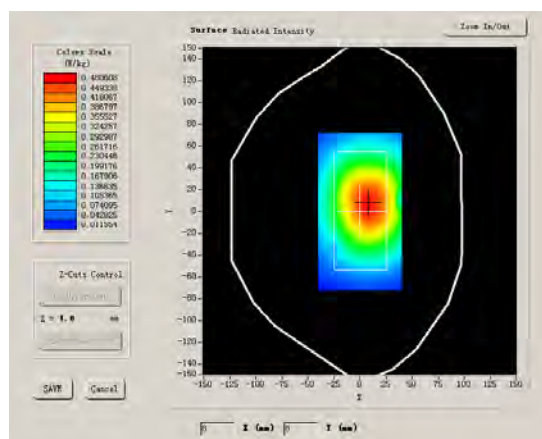
Phantom File	surf_sam_plan.txt
Phantom	Validation plane
Device Position	Body
Band	GSM850
Channels	Middle
Signal	GPRS

B. SAR Measurement Results

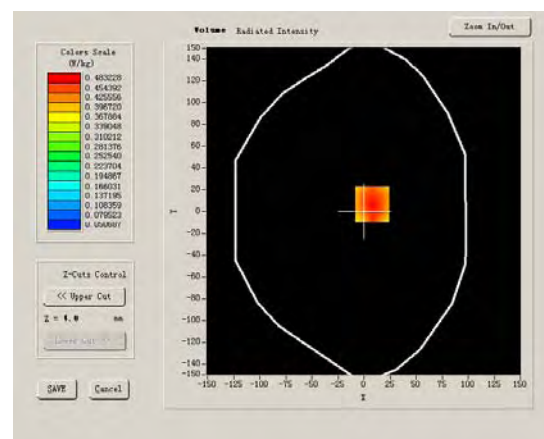
Middle Band SAR (Channel 190):

Frequency (MHz)	836.599976
Relative permittivity (real part)	55.709999
Relative permittivity	21.709999
Conductivity (S/m)	1.009033
Power drift (%)	-1.130000
Ambient Temperature:	22.8°C
Liquid Temperature:	22.7°C
ConvF:	28.479,25.214,27.196
Crest factor:	1:2

SURFACE SAR



VOLUME SAR



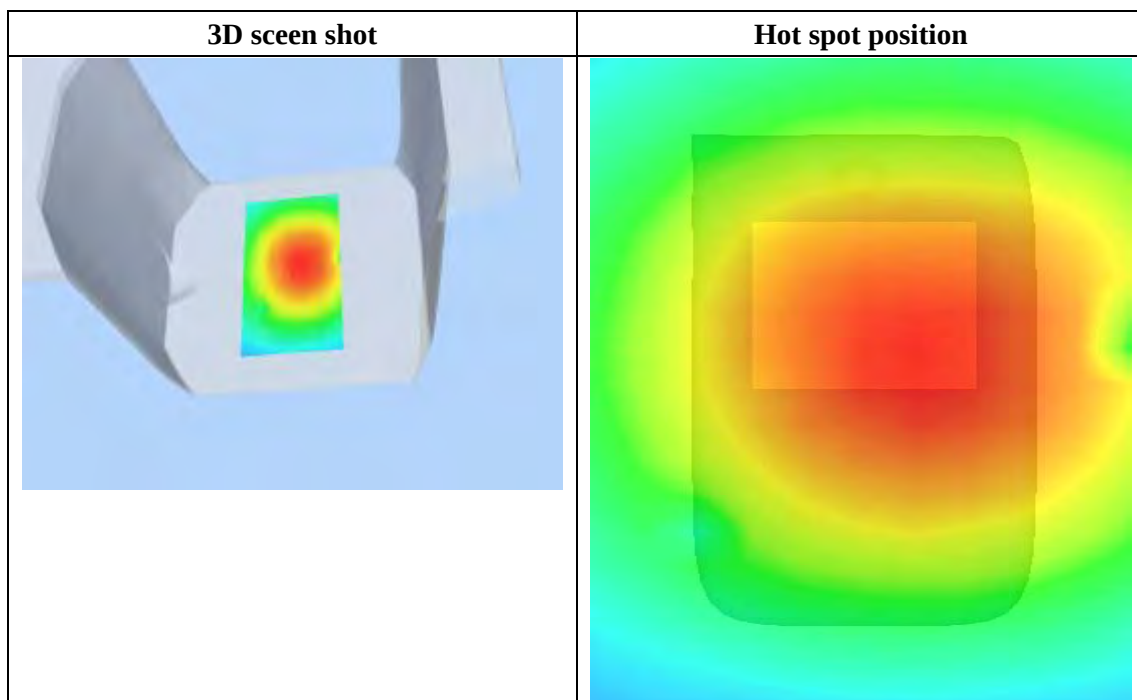
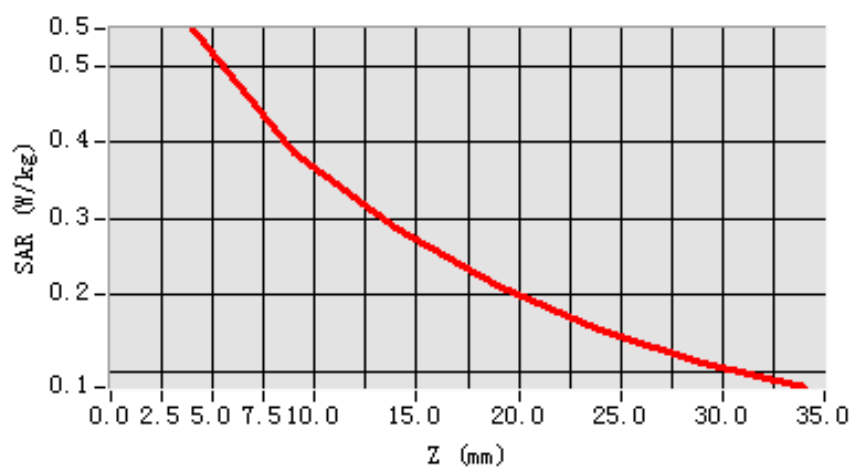
Maximum location: X=8.00, Y=7.00

SAR 10g (W/Kg)	0.369574
SAR 1g (W/Kg)	0.528205

Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	0.5487	0.3861	0.2867	0.2123	0.1532	0.1108

SAR, Z Axis Scan (X = 8, Y = 7)



MEASUREMENT 25

Type: Phone measurement (Complete)

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

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

Date of measurement: 12/10/2011

Measurement duration: 9 minutes 7 seconds

A. Experimental conditions.

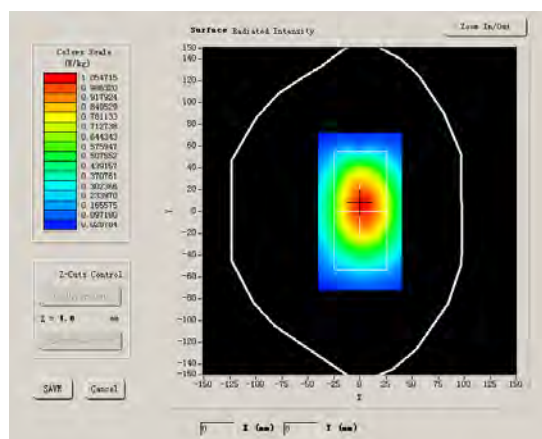
Phantom File	surf_sam_plan.txt
Phantom	Validation plane
Device Position	Body
Band	GSM850
Channels	High
Signal	GPRS

B. SAR Measurement Results

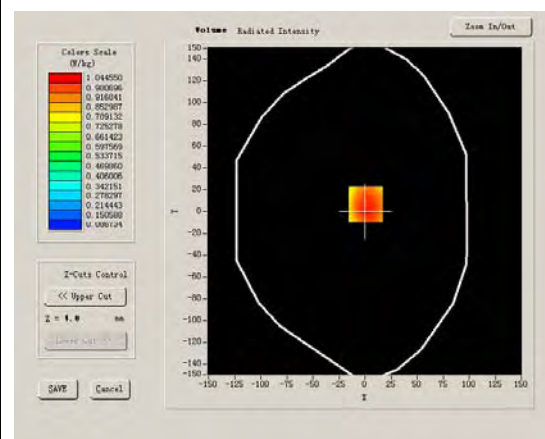
Higher Band SAR (Channel 251):

Frequency (MHz)	848.799988
Relative permittivity (real part)	54.014999
Relative permittivity	21.332850
Conductivity (S/m)	1.005962
Power drift (%)	-0.760000
Ambient Temperature:	22.8°C
Liquid Temperature:	22.7°C
ConvF:	28.479,25.214,27.196
Crest factor:	1:2

SURFACE SAR



VOLUME SAR



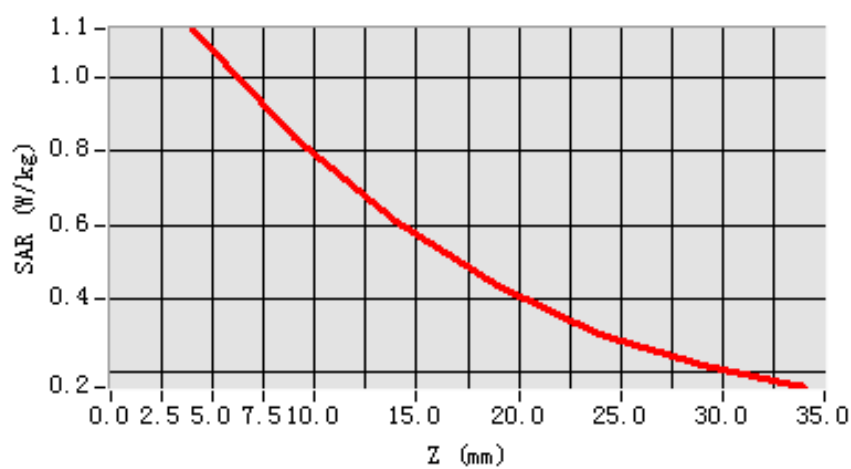
Maximum location: X=1.00, Y=7.00

SAR 10g (W/Kg)	0.771389
SAR 1g (W/Kg)	1.099285

Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	1.1349	0.8363	0.6083	0.4360	0.3000	0.2188

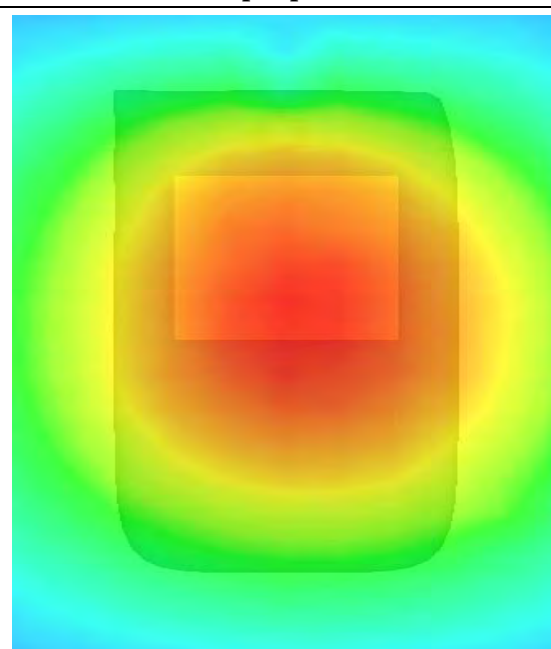
SAR, Z Axis Scan (X = 1, Y = 7)



3D scene shot



Hot spot position



MEASUREMENT 26

Type: Phone measurement (Complete)

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

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

Date of measurement: 12/10/2011

Measurement duration: 9 minutes 9 seconds

A. Experimental conditions.

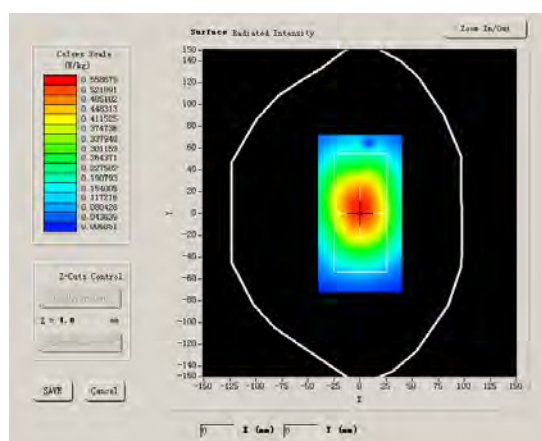
Phantom File	surf_sam_plan.txt
Phantom	Validation plane
Device Position	Body
Band	GSM850
Channels	High
Signal	GPRS

B. SAR Measurement Results

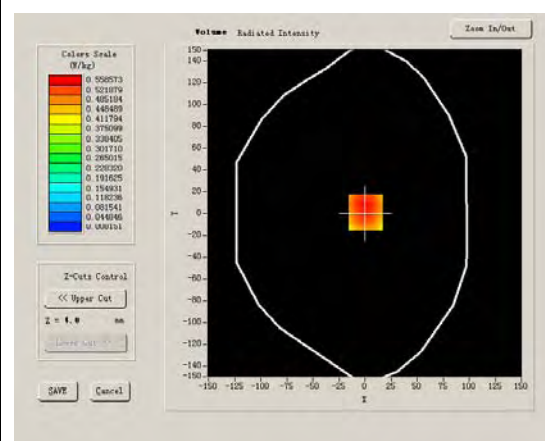
Higher Band SAR (Channel 251):

Frequency (MHz)	848.799988
Relative permittivity (real part)	54.014999
Relative permittivity	21.332850
Conductivity (S/m)	1.005962
Power drift (%)	-1.970000
Ambient Temperature:	22.8°C
Liquid Temperature:	22.7°C
ConvF:	28.479,25.214,27.196
Crest factor:	1:2

SURFACE SAR



VOLUME SAR



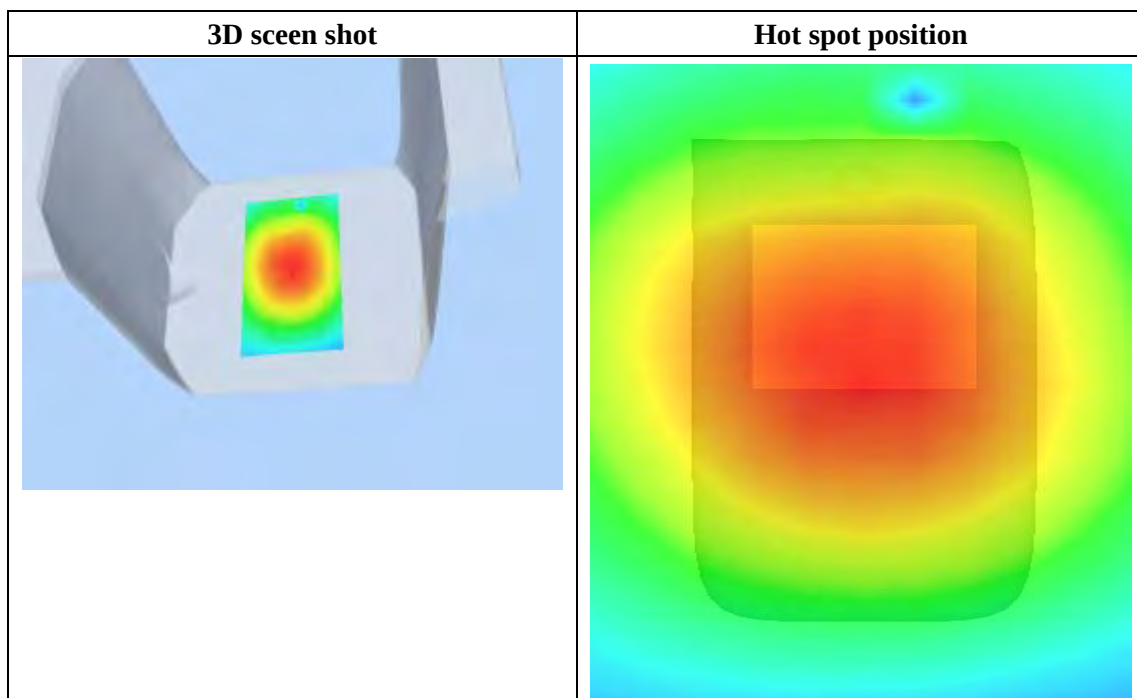
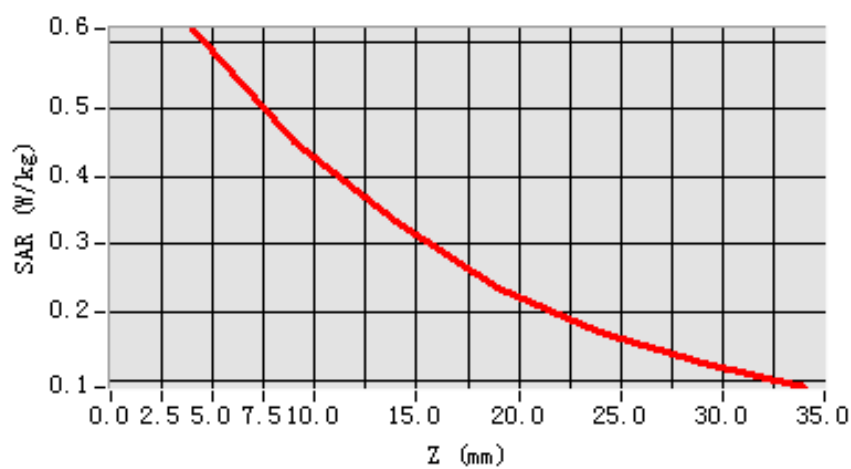
Maximum location: X=1.00, Y=1.00

SAR 10g (W/Kg)	0.424204
SAR 1g (W/Kg)	0.603736

Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	0.6185	0.4525	0.3330	0.2357	0.1717	0.1255

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



MEASUREMENT 27

Type: Phone measurement (Complete)

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

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

Date of measurement: 12/10/2011

Measurement duration: 9 minutes 12 seconds

A. Experimental conditions.

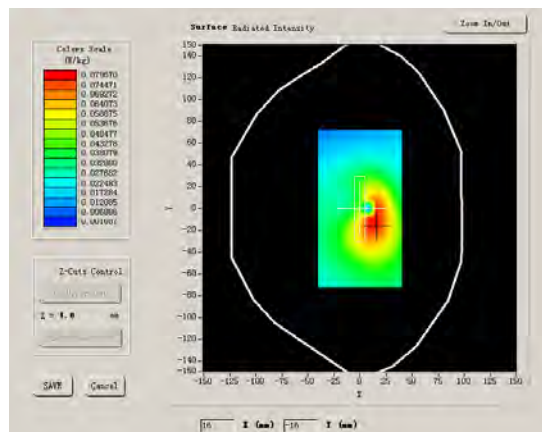
Phantom File	surf_sam_plan.txt
Phantom	Validation plane
Device Position	Body
Band	GSM850
Channels	High
Signal	GPRS

B. SAR Measurement Results

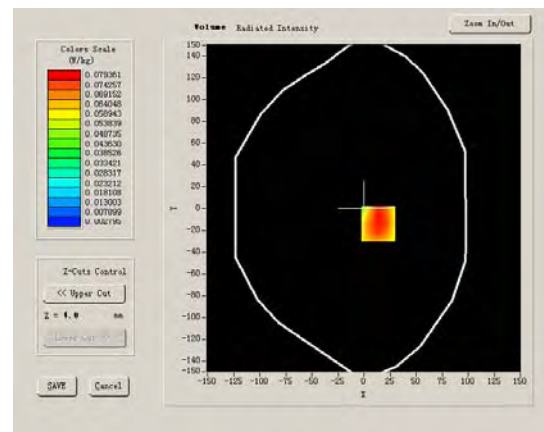
Higher Band SAR (Channel 251):

Frequency (MHz)	848.799988
Relative permittivity (real part)	54.014999
Relative permittivity	21.332850
Conductivity (S/m)	1.005962
Power drift (%)	-3.160000
Ambient Temperature:	22.6°C
Liquid Temperature:	22.8°C
ConvF:	28.479,25.214,27.196
Crest factor:	1:2

SURFACE SAR



VOLUME SAR



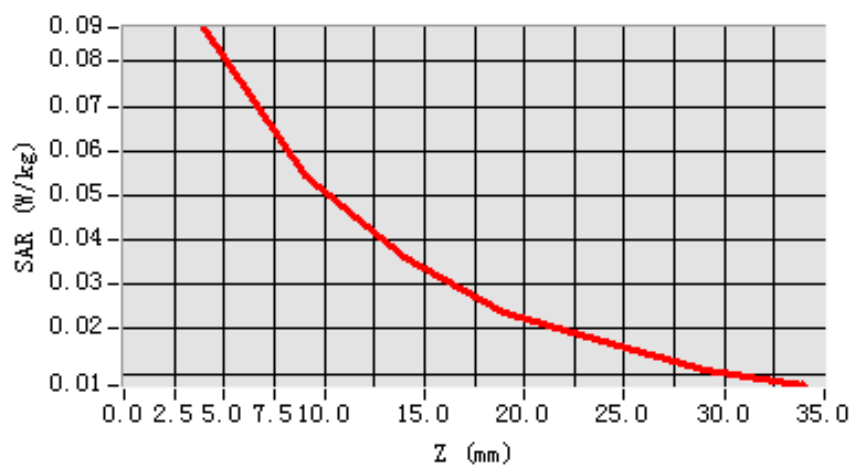
Maximum location: X=14.00, Y=-14.00

SAR 10g (W/Kg)	0.054208
SAR 1g (W/Kg)	0.085978

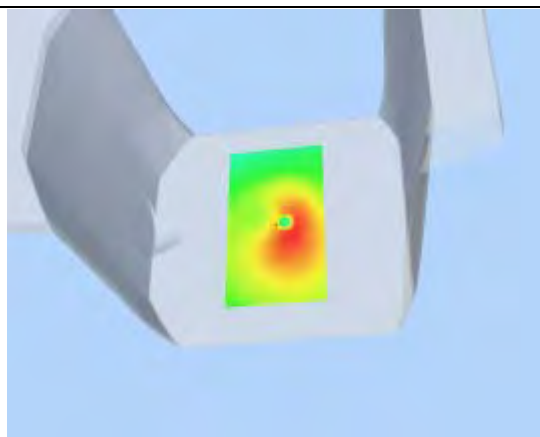
Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	0.0877	0.0545	0.0360	0.0239	0.0170	0.0107

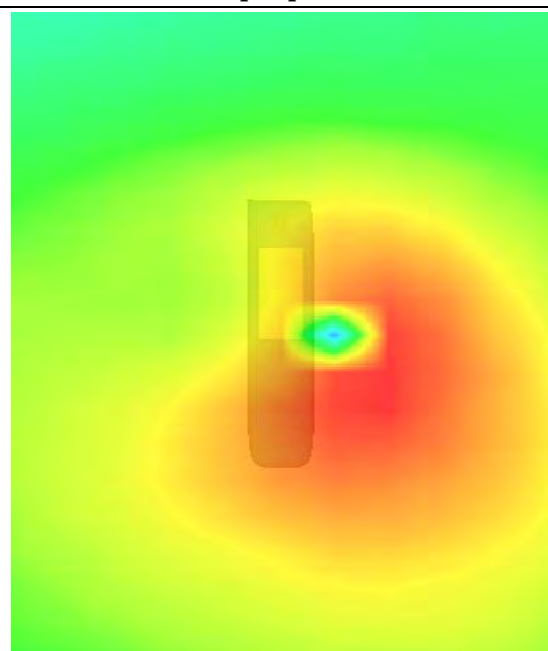
SAR, Z Axis Scan (X = 14, Y = -14)



3D sceen shot



Hot spot position



MEASUREMENT 28

Type: Phone measurement (Complete)

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

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

Date of measurement: 12/10/2011

Measurement duration: 9 minutes 12 seconds

A. Experimental conditions.

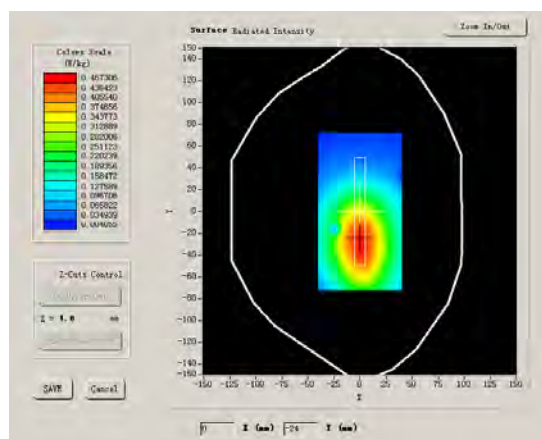
Phantom File	surf_sam_plan.txt
Phantom	Validation plane
Device Position	Body
Band	GSM850
Channels	High
Signal	GPRS

B. SAR Measurement Results

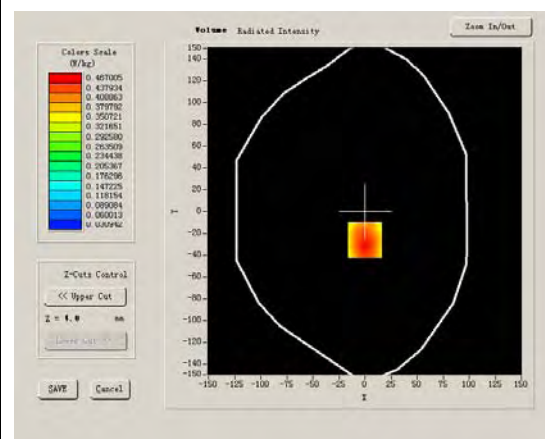
Higher Band SAR (Channel 251):

Frequency (MHz)	848.799988
Relative permittivity (real part)	54.014999
Relative permittivity	21.332850
Conductivity (S/m)	1.005962
Power drift (%)	-2.430000
Ambient Temperature:	22.6°C
Liquid Temperature:	22.8°C
ConvF:	28.479,25.214,27.196
Crest factor:	1:2

SURFACE SAR



VOLUME SAR



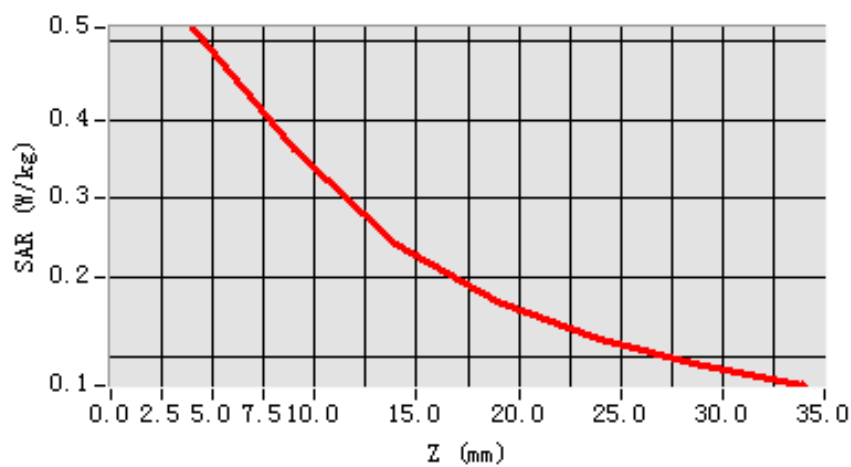
Maximum location: X=0.00, Y=-26.00

SAR 10g (W/Kg)	0.336763
SAR 1g (W/Kg)	0.507310

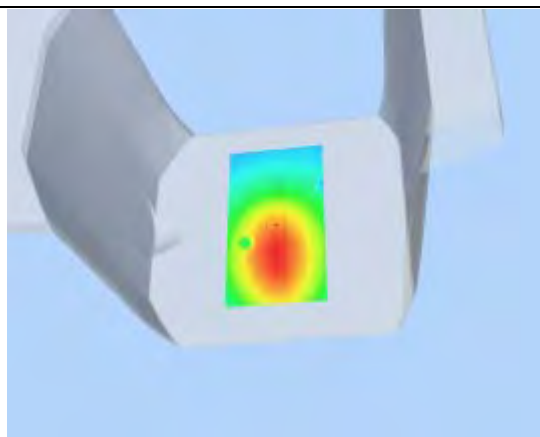
Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	0.5176	0.3617	0.2425	0.1690	0.1222	0.0870

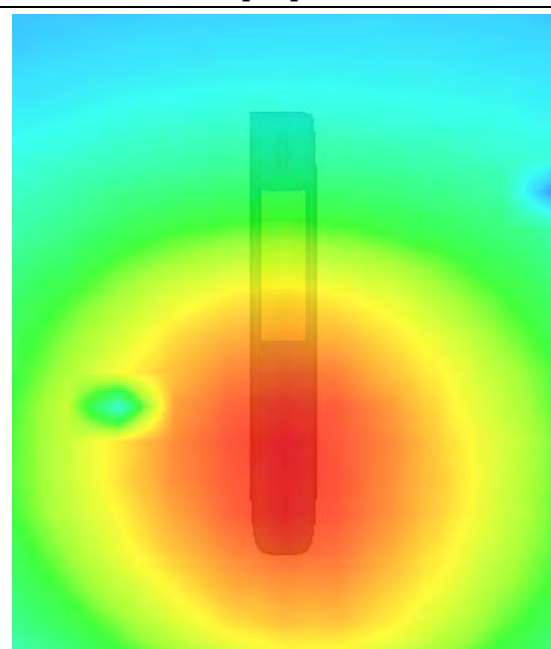
SAR, Z Axis Scan (X = 0, Y = -26)



3D scene shot



Hot spot position



MEASUREMENT 29

Type: Phone measurement (Complete)

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

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

Date of measurement: 12/10/2011

Measurement duration: 9 minutes 12 seconds

A. Experimental conditions.

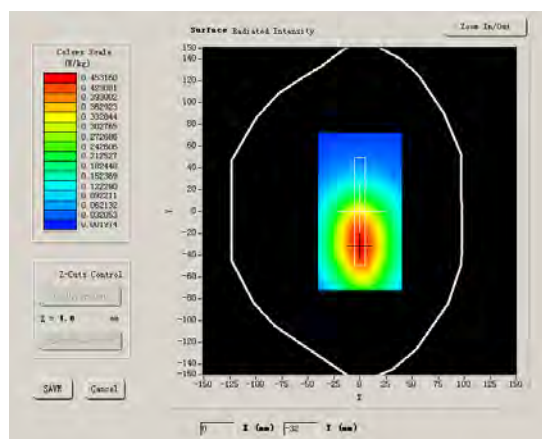
Phantom File	surf_sam_plan.txt
Phantom	Validation plane
Device Position	Body
Band	GSM850
Channels	High
Signal	GPRS

B. SAR Measurement Results

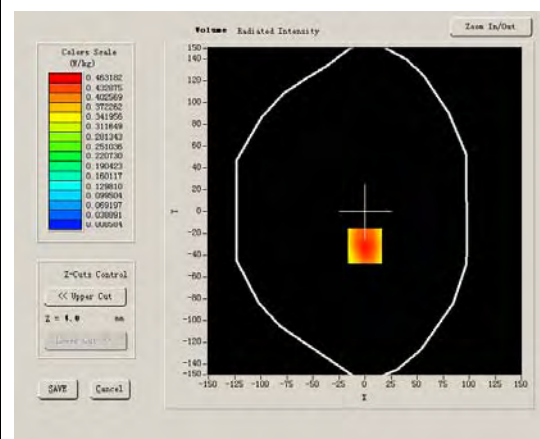
Higher Band SAR (Channel 251):

Frequency (MHz)	848.799988
Relative permittivity (real part)	54.014999
Relative permittivity	21.332850
Conductivity (S/m)	1.005962
Power drift (%)	-2.510000
Ambient Temperature:	22.6°C
Liquid Temperature:	22.8°C
ConvF:	28.479,25.214,27.196
Crest factor:	1:2

SURFACE SAR



VOLUME SAR



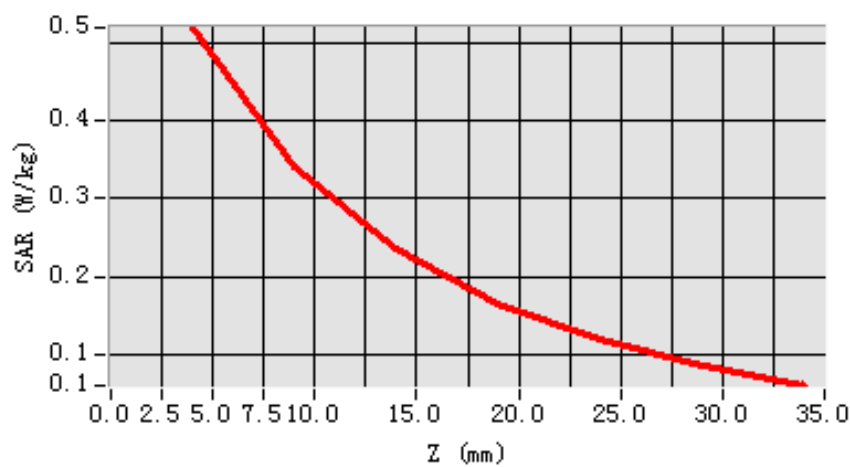
Maximum location: X=0.00, Y=-32.00

SAR 10g (W/Kg)	0.331629
SAR 1g (W/Kg)	0.501106

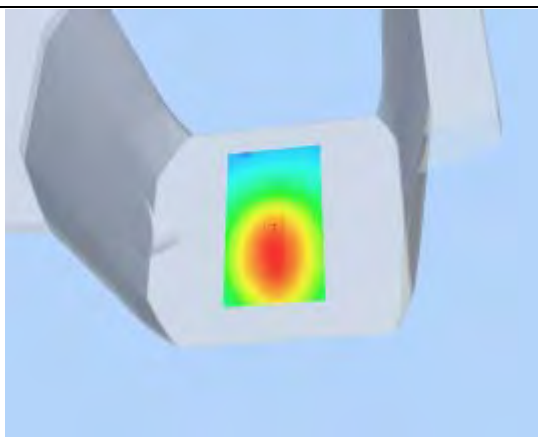
Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	0.5210	0.3410	0.2359	0.1656	0.1178	0.0842

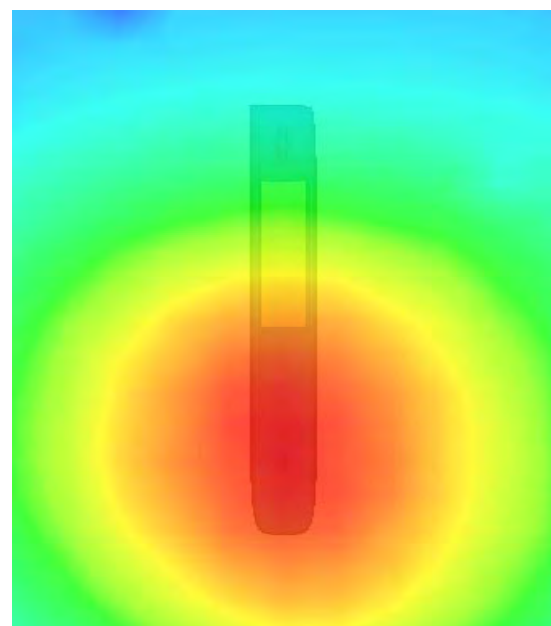
SAR, Z Axis Scan (X = 0, Y = -32)



3D scene shot



Hot spot position



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: 12/10/2011

Measurement duration: 8 minutes 14 seconds

A. Experimental conditions.

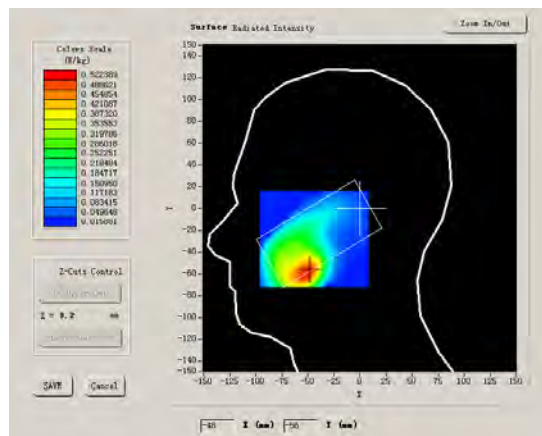
Phantom File	sam_direct_droit2_surf8mm.txt
Phantom	Right head
Device Position	Cheek
Band	GSM1900
Channels	Low
Signal	GSM

B. SAR Measurement Results

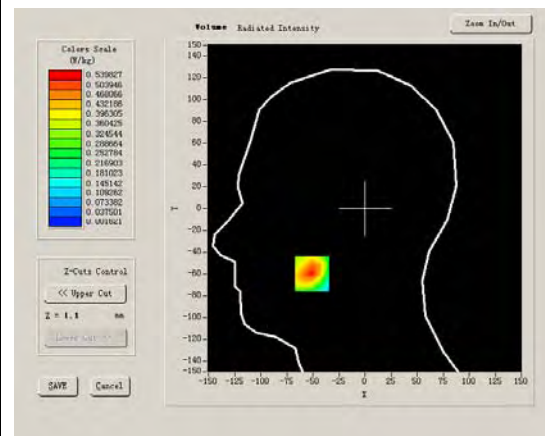
Lower Band SAR (Channel 512):

Frequency (MHz)	1850.199951
Relative permittivity (real part)	39.993999
Relative permittivity	12.991650
Conductivity (S/m)	1.335397
Power drift (%)	-0.890000
Ambient Temperature:	22.5°C
Liquid Temperature:	22.3°C
ConvF:	40.136,34.843,38.721
Crest factor:	1:8

SURFACE SAR



VOLUME SAR



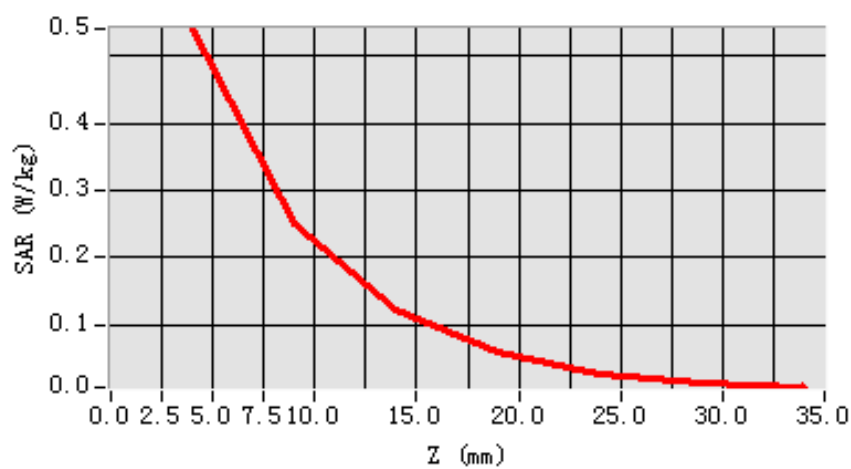
Maximum location: X=-51.00, Y=-60.00

SAR 10g (W/Kg)	0.256693
SAR 1g (W/Kg)	0.509563

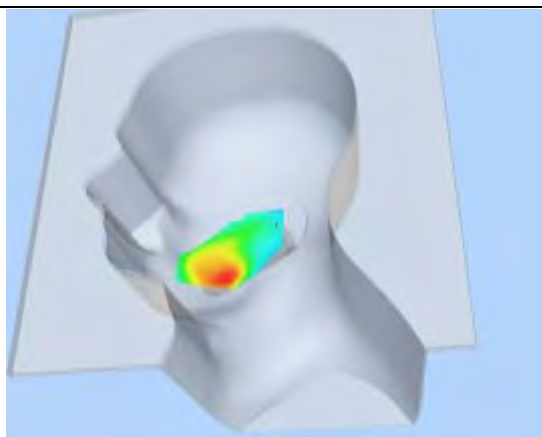
Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	0.5398	0.2490	0.1212	0.0596	0.0280	0.0145

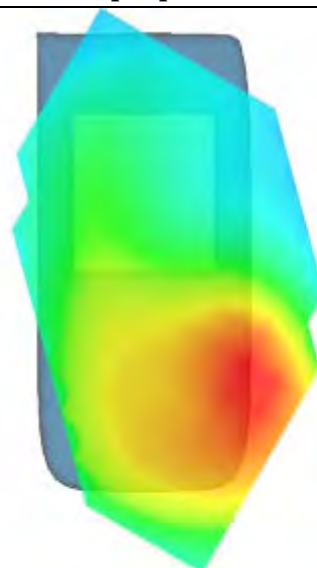
SAR, Z Axis Scan (X = -51, Y = -60)



3D sceen shot



Hot spot position



MEASUREMENT 31

Type: Phone measurement (Complete)

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

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

Date of measurement: 12/10/2011

Measurement duration: 8 minutes 7 seconds

A. Experimental conditions.

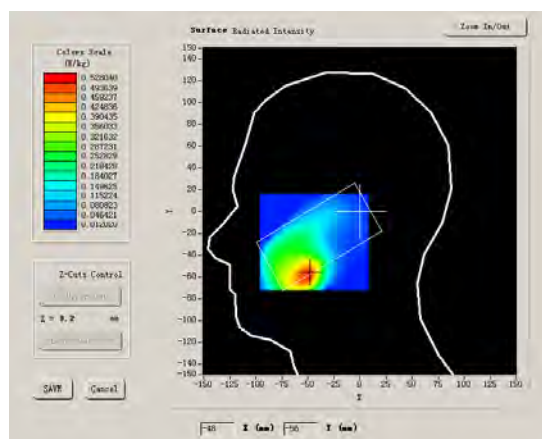
Phantom File	sam_direct_droit2_surf8mm.txt
Phantom	Right head
Device Position	Cheek
Band	GSM1900
Channels	Middle
Signal	GSM

B. SAR Measurement Results

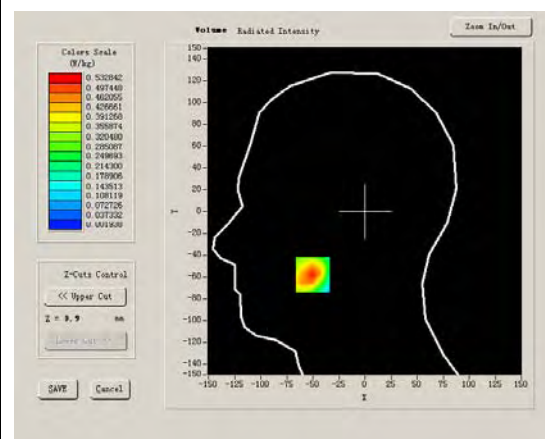
Middle Band SAR (Channel 661):

Frequency (MHz)	1880.000000
Relative permittivity (real part)	38.509998
Relative permittivity	13.750000
Conductivity (S/m)	1.436111
Power drift (%)	-0.910000
Ambient Temperature:	22.5°C
Liquid Temperature:	22.3°C
ConvF:	40.136,34.843,38.721
Crest factor:	1:8

SURFACE SAR



VOLUME SAR



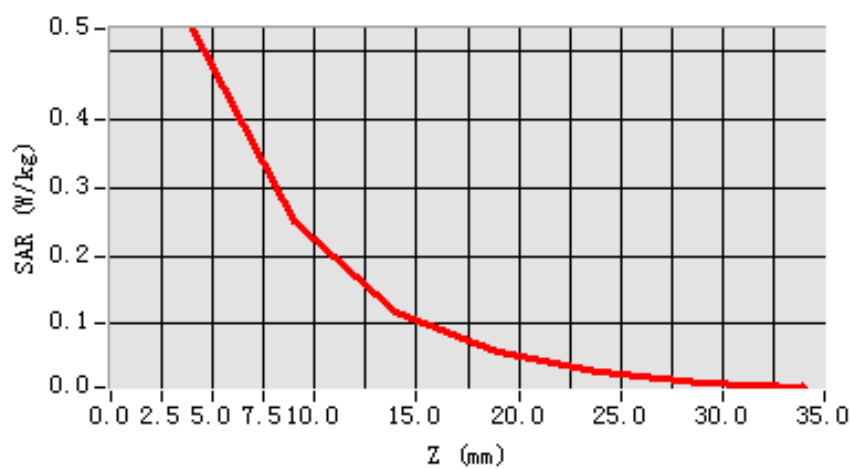
Maximum location: X=-50.00, Y=-58.00

SAR 10g (W/Kg)	0.251472
SAR 1g (W/Kg)	0.502856

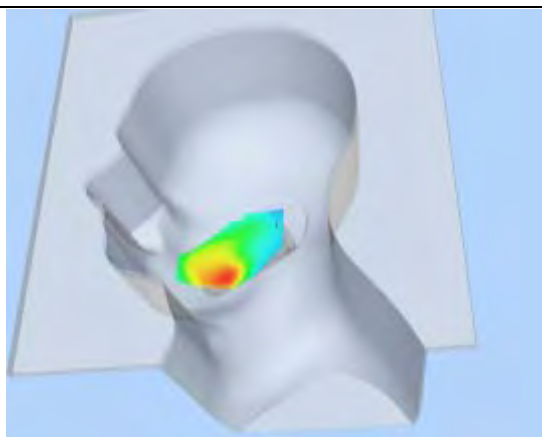
Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	0.5328	0.2520	0.1170	0.0576	0.0298	0.0147

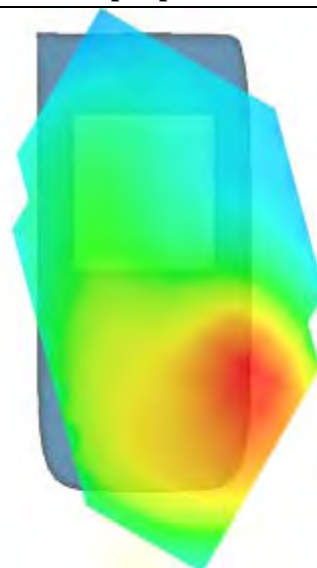
SAR, Z Axis Scan (X = -50, Y = -58)



3D sceen shot



Hot spot position



MEASUREMENT 32

Type: Phone measurement (Complete)

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

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

Date of measurement: 12/10/2011

Measurement duration: 8 minutes 8 seconds

A. Experimental conditions.

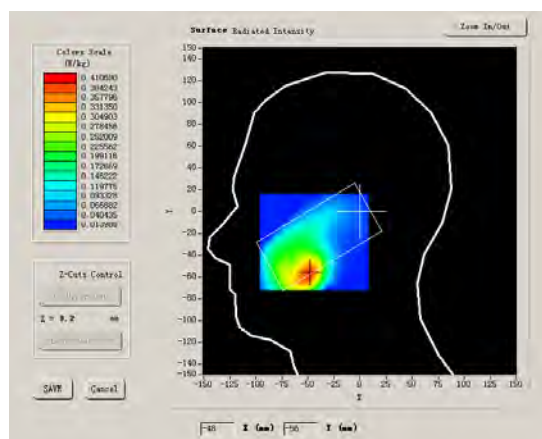
Phantom File	sam_direct_droit2_surf8mm.txt
Phantom	Right head
Device Position	Cheek
Band	GSM1900
Channels	High
Signal	GSM

B. SAR Measurement Results

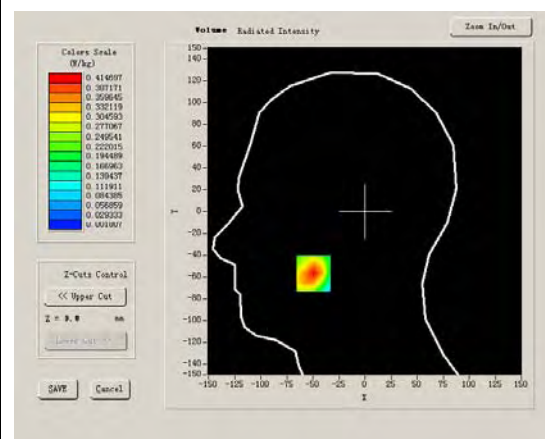
Higher Band SAR (Channel 810):

Frequency (MHz)	1909.800049
Relative permittivity (real part)	39.929001
Relative permittivity	13.156500
Conductivity (S/m)	1.395905
Power drift (%)	0.260000
Ambient Temperature:	22.5°C
Liquid Temperature:	22.3°C
ConvF:	40.136,34.843,38.721
Crest factor:	1:8

SURFACE SAR



VOLUME SAR



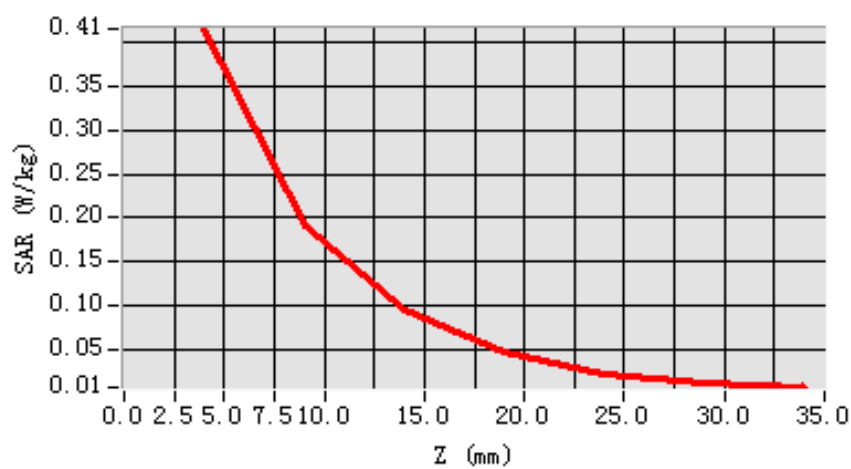
Maximum location: X=-49.00, Y=-57.00

SAR 10g (W/Kg)	0.198333
SAR 1g (W/Kg)	0.393832

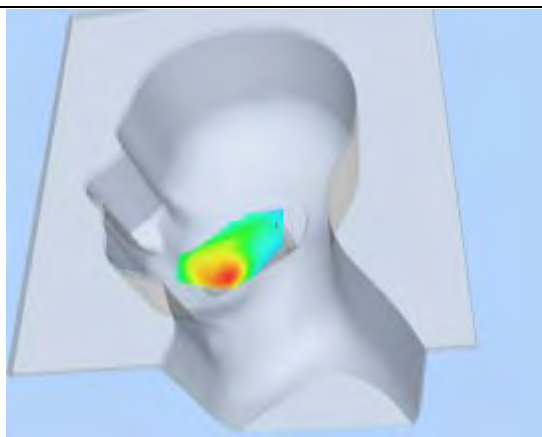
Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	0.4147	0.1915	0.0954	0.0471	0.0237	0.0127

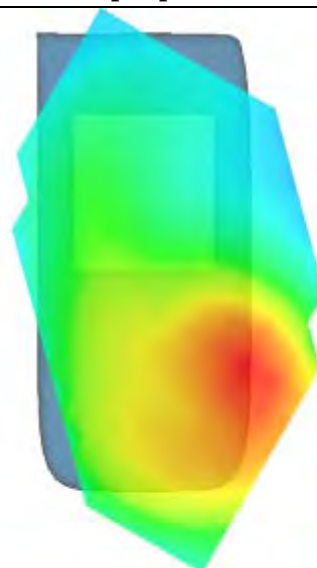
SAR, Z Axis Scan (X = -49, Y = -57)



3D sceen shot



Hot spot position



MEASUREMENT 33

Type: Phone measurement (Complete)

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

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

Date of measurement: 12/10/2011

Measurement duration: 7 minutes 25 seconds

A. Experimental conditions.

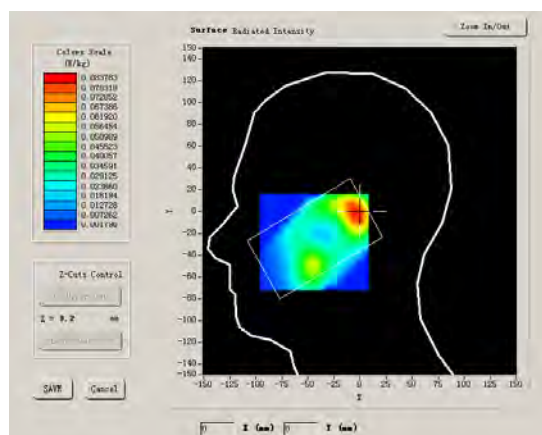
Phantom File	sam_direct_droit2_surf8mm.txt
Phantom	Right head
Device Position	Tilt
Band	GSM1900
Channels	Low
Signal	GSM

B. SAR Measurement Results

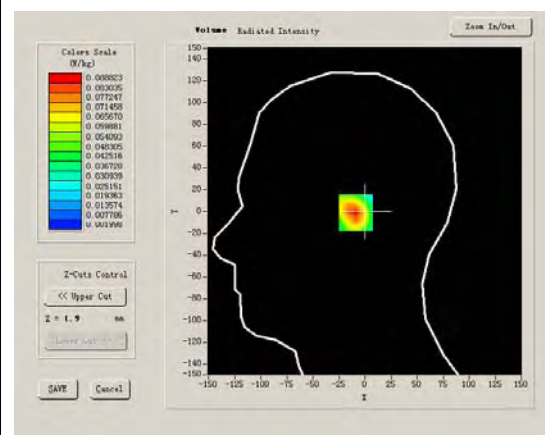
Lower Band SAR (Channel 512):

Frequency (MHz)	1850.199951
Relative permittivity (real part)	39.993999
Relative permittivity	12.991650
Conductivity (S/m)	1.335397
Power drift (%)	0.360000
Ambient Temperature:	22.5°C
Liquid Temperature:	22.3°C
ConvF:	40.136,34.843,38.721
Crest factor:	1:8

SURFACE SAR



VOLUME SAR



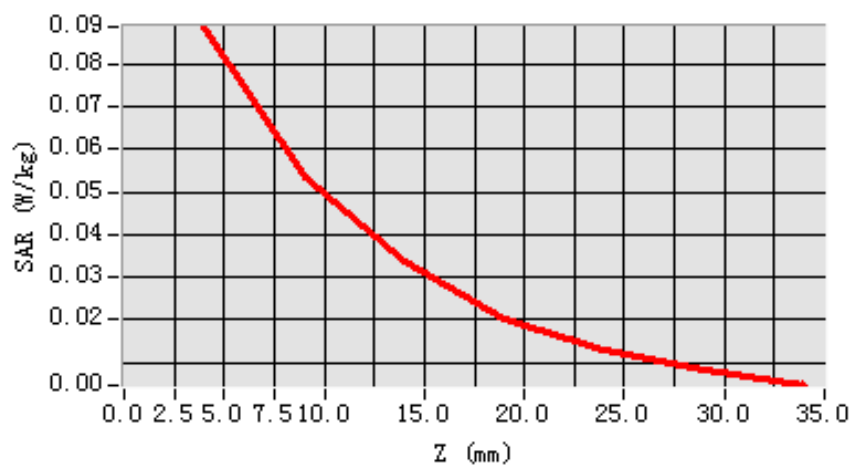
Maximum location: X=-2.00, Y=-1.00

SAR 10g (W/Kg)	0.047726
SAR 1g (W/Kg)	0.082653

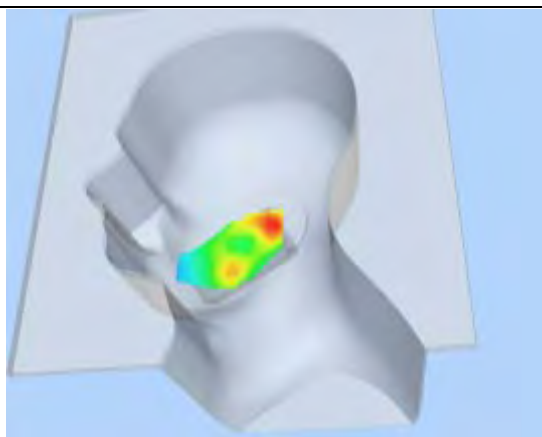
Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	0.0888	0.0535	0.0339	0.0202	0.0131	0.0083

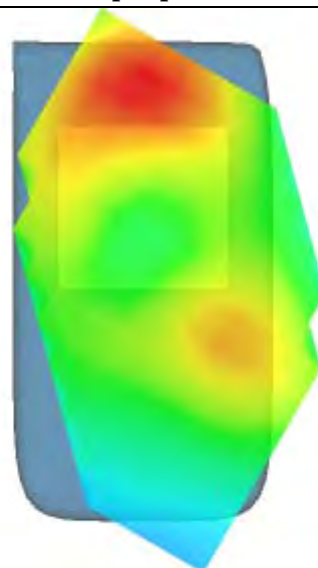
SAR, Z Axis Scan (X = -2, Y = -1)



3D sceen shot



Hot spot position



MEASUREMENT 34

Type: Phone measurement (Complete)

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

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

Date of measurement: 12/10/2011

Measurement duration: 8 minutes 12 seconds

A. Experimental conditions.

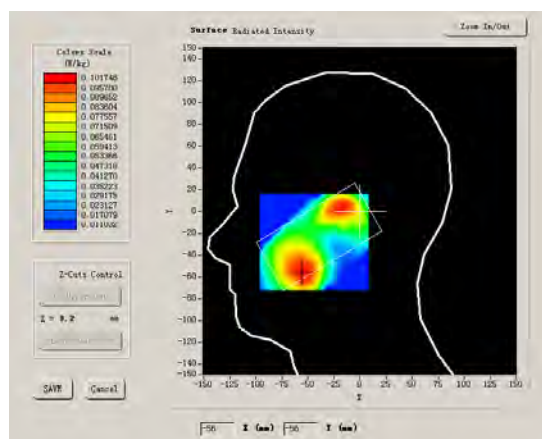
Phantom File	sam_direct_droit2_surf8mm.txt
Phantom	Right head
Device Position	Tilt
Band	GSM1900
Channels	Middle
Signal	GSM

B. SAR Measurement Results

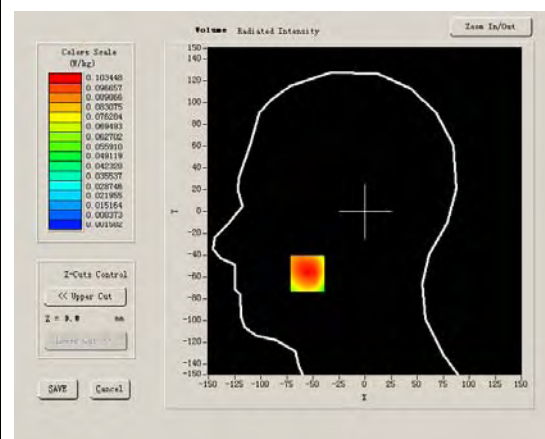
Middle Band SAR (Channel 661):

Frequency (MHz)	1880.000000
Relative permittivity (real part)	38.509998
Relative permittivity	13.750000
Conductivity (S/m)	1.436111
Power drift (%)	0.360000
Ambient Temperature:	22.5°C
Liquid Temperature:	22.3°C
ConvF:	40.136,34.843,38.721
Crest factor:	1:8

SURFACE SAR



VOLUME SAR



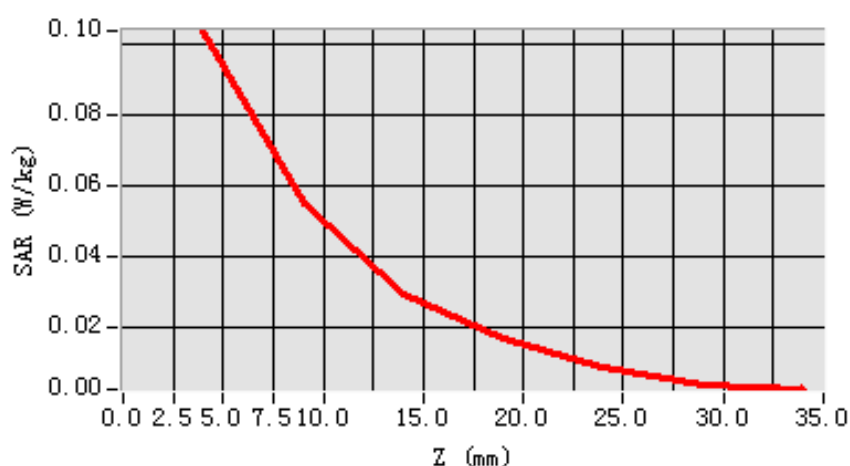
Maximum location: X=-55.00, Y=-57.00

SAR 10g (W/Kg)	0.056335
SAR 1g (W/Kg)	0.100254

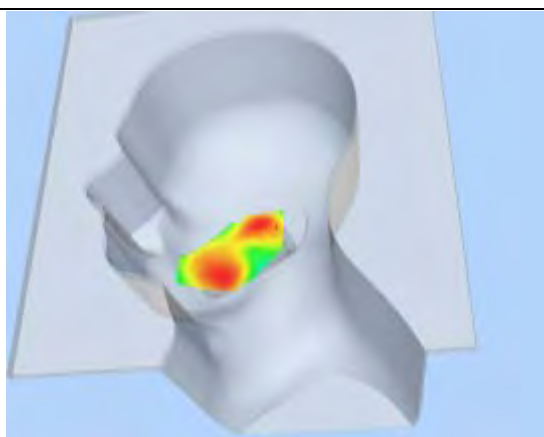
Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	0.1034	0.0549	0.0294	0.0168	0.0083	0.0037

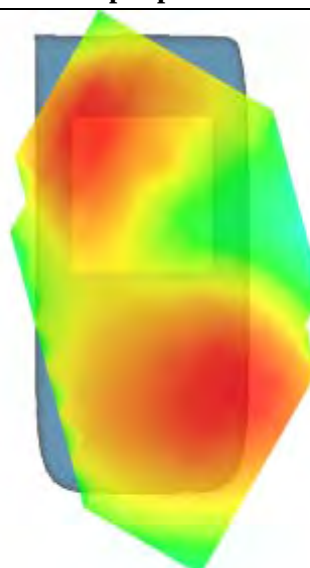
SAR, Z Axis Scan (X = -55, Y = -57)



3D sceen shot



Hot spot position



MEASUREMENT 35

Type: Phone measurement (Complete)

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

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

Date of measurement: 12/10/2011

Measurement duration: 7 minutes 25 seconds

A. Experimental conditions.

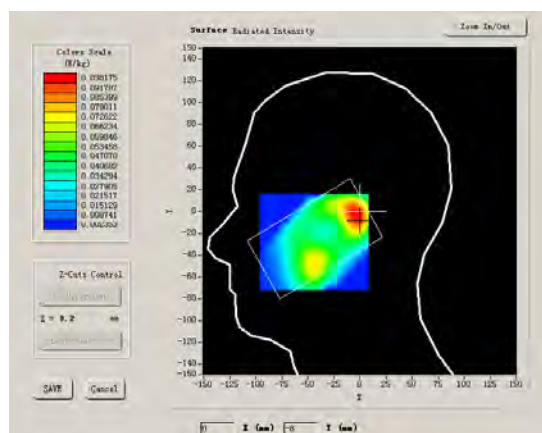
Phantom File	sam_direct_droit2_surf8mm.txt
Phantom	Right head
Device Position	Tilt
Band	GSM1900
Channels	High
Signal	GSM

B. SAR Measurement Results

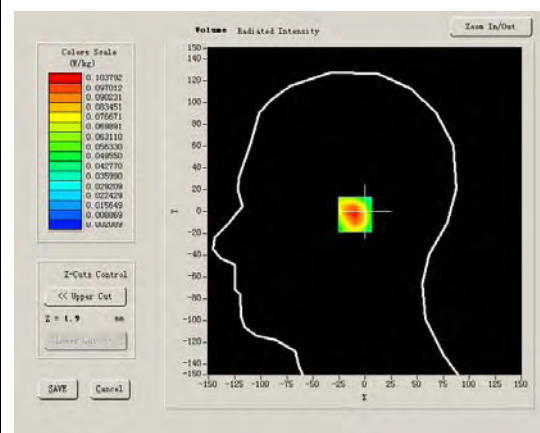
Higher Band SAR (Channel 810):

Frequency (MHz)	1909.800049
Relative permittivity (real part)	39.929001
Relative permittivity	13.156500
Conductivity (S/m)	1.395905
Power drift (%)	-0.720000
Ambient Temperature:	22.5°C
Liquid Temperature:	22.3°C
ConvF:	40.136,34.843,38.721
Crest factor:	1:8

SURFACE SAR



VOLUME SAR



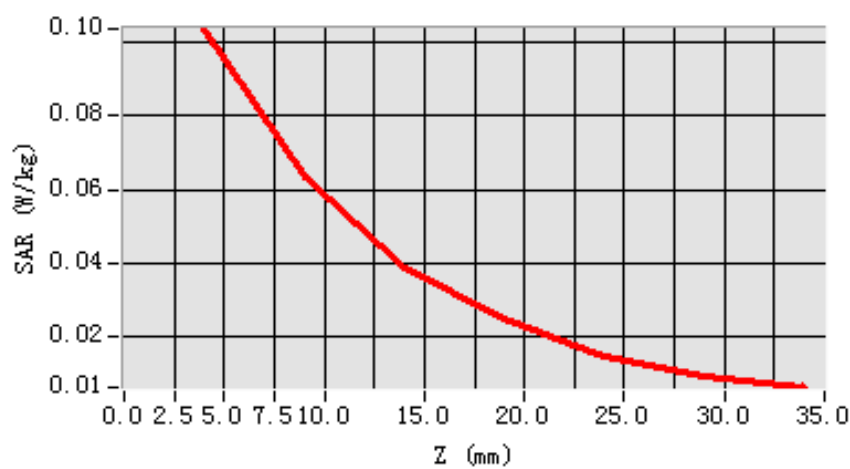
Maximum location: X=-3.00, Y=-3.00

SAR 10g (W/Kg)	0.056395
SAR 1g (W/Kg)	0.097654

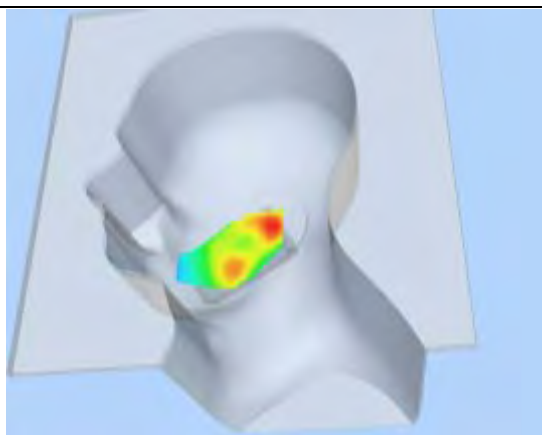
Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	0.1038	0.0632	0.0388	0.0245	0.0146	0.0091

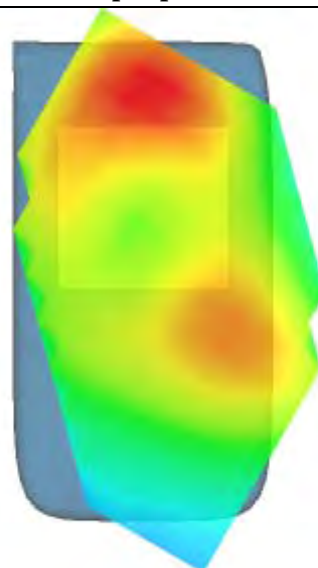
SAR, Z Axis Scan (X = -3, Y = -3)



3D sceen shot



Hot spot position



MEASUREMENT 36

Type: Phone measurement (Complete)

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

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

Date of measurement: 12/10/2011

Measurement duration: 7 minutes 59 seconds

A. Experimental conditions.

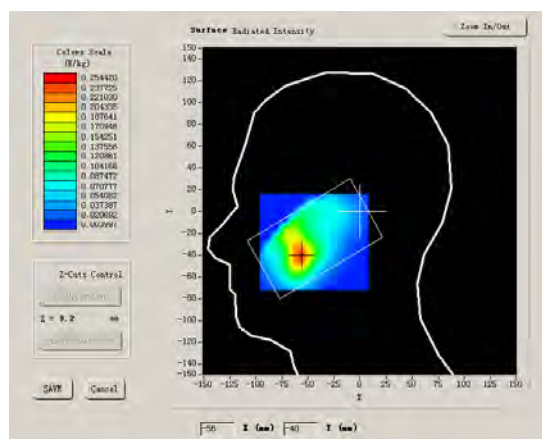
Phantom File	sam_direct_droit2_surf8mm.txt
Phantom	Left head
Device Position	Cheek
Band	GSM1900
Channels	Low
Signal	GSM

B. SAR Measurement Results

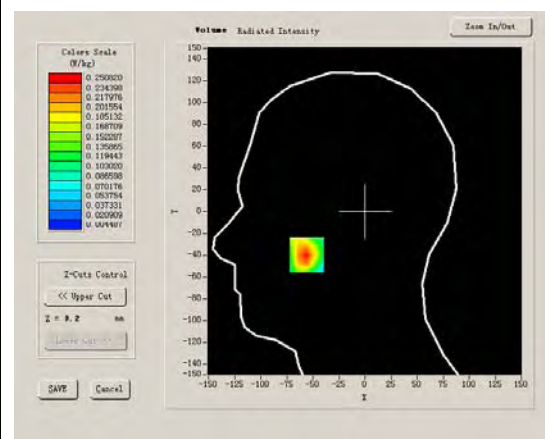
Lower Band SAR (Channel 512):

Frequency (MHz)	1850.199951
Relative permittivity (real part)	39.993999
Relative permittivity	12.991650
Conductivity (S/m)	1.335397
Power drift (%)	-0.580000
Ambient Temperature:	22.5°C
Liquid Temperature:	22.3°C
ConvF:	40.136,34.843,38.721
Crest factor:	1:8

SURFACE SAR



VOLUME SAR

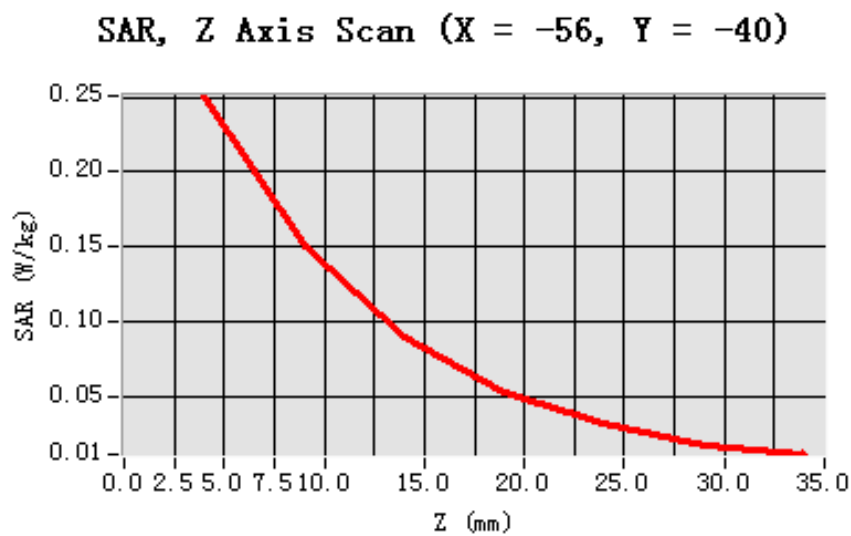


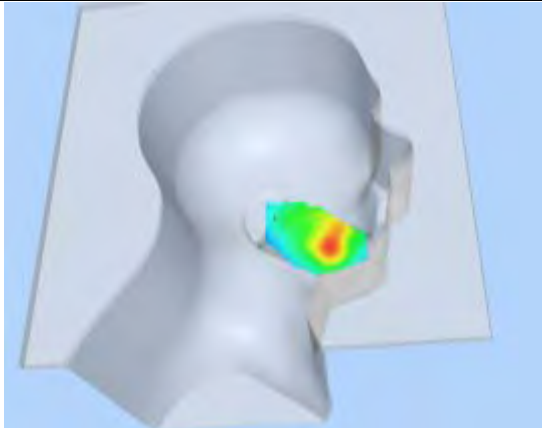
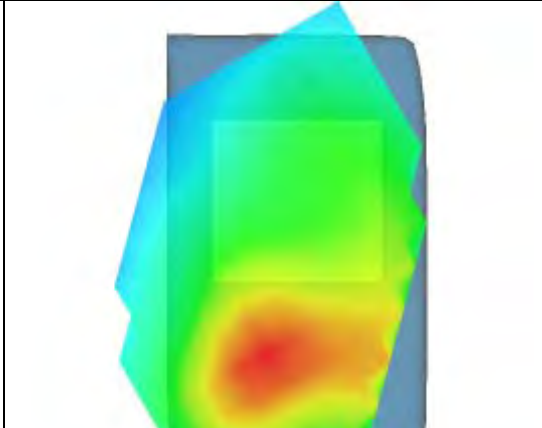
Maximum location: X=-56.00, Y=-40.00

SAR 10g (W/Kg)	0.130133
SAR 1g (W/Kg)	0.235460

Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	0.2508	0.1509	0.0900	0.0536	0.0318	0.0175



3D scene shot	Hot spot position
	

MEASUREMENT 37

Type: Phone measurement (Complete)

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

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

Date of measurement: 12/10/2011

Measurement duration: 9 minutes 7 seconds

A. Experimental conditions.

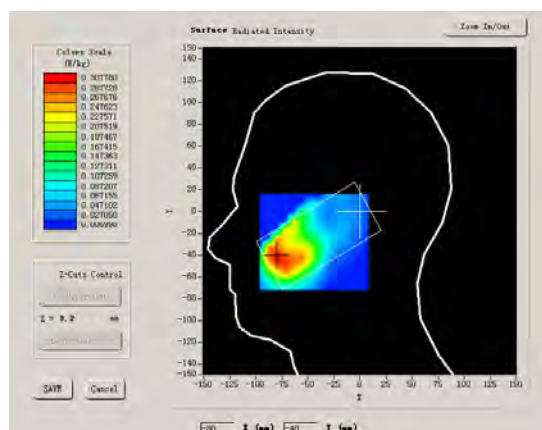
Phantom File	sam_direct_droit2_surf8mm.txt
Phantom	Left head
Device Position	Cheek
Band	GSM1900
Channels	Middle
Signal	GSM

B. SAR Measurement Results

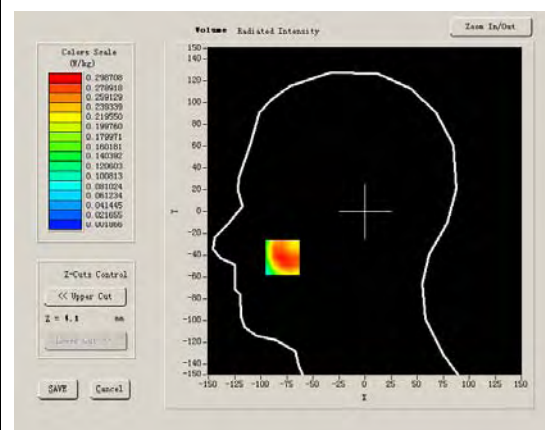
Middle Band SAR (Channel 661):

Frequency (MHz)	1880.000000
Relative permittivity (real part)	38.509998
Relative permittivity	13.750000
Conductivity (S/m)	1.436111
Power drift (%)	-1.740000
Ambient Temperature:	22.5°C
Liquid Temperature:	22.3°C
ConvF:	40.136,34.843,38.721
Crest factor:	1:8

SURFACE SAR



VOLUME SAR



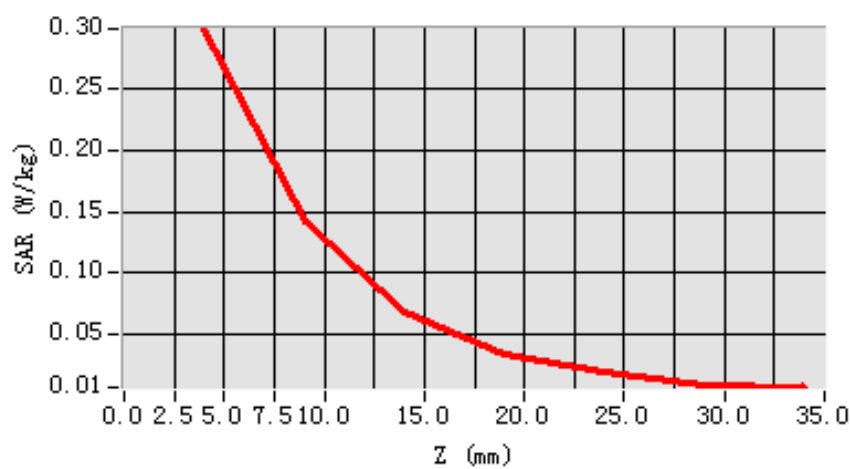
Maximum location: X=-79.00, Y=-42.00

SAR 10g (W/Kg)	0.155500
SAR 1g (W/Kg)	0.290545

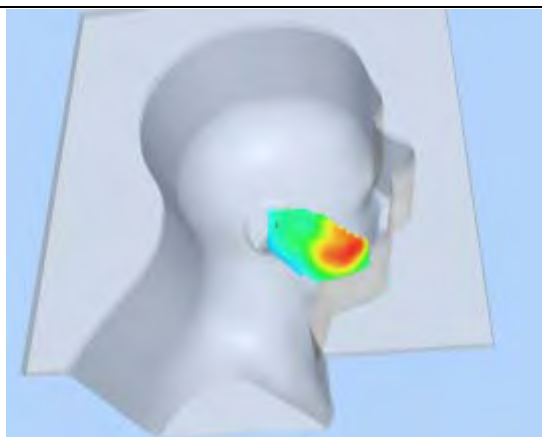
Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	0.2987	0.1421	0.0688	0.0347	0.0194	0.0091

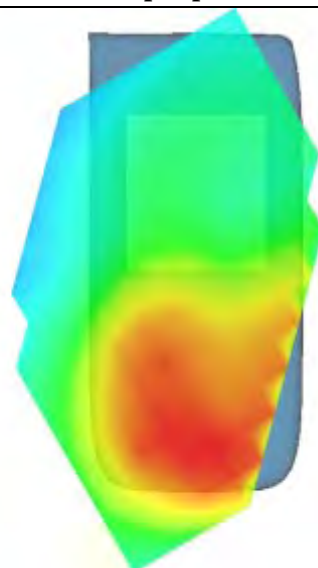
SAR, Z Axis Scan (X = -79, Y = -42)



3D sceen shot



Hot spot position



MEASUREMENT 38

Type: Phone measurement (Complete)

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

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

Date of measurement: 12/10/2011

Measurement duration: 7 minutes 59 seconds

A. Experimental conditions.

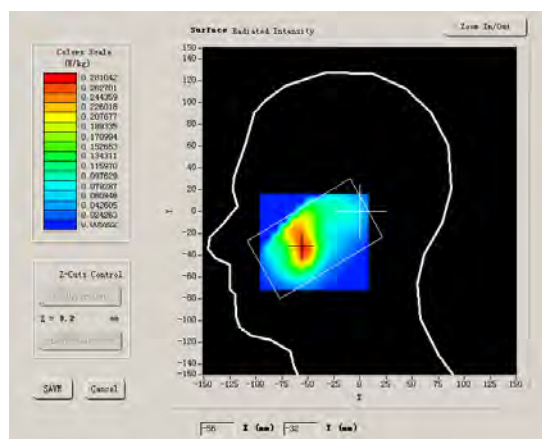
Phantom File	sam_direct_droit2_surf8mm.txt
Phantom	Left head
Device Position	Cheek
Band	GSM1900
Channels	High
Signal	GSM

B. SAR Measurement Results

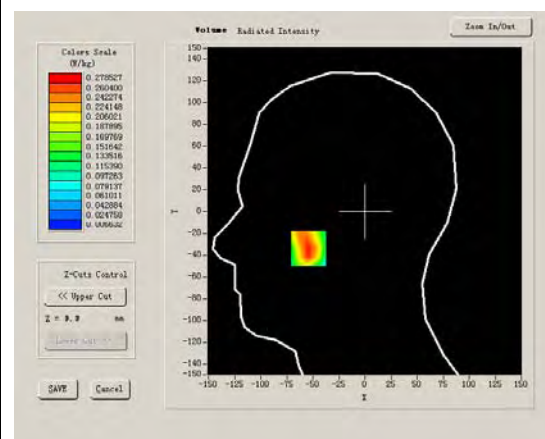
Higher Band SAR (Channel 810):

Frequency (MHz)	1909.800049
Relative permittivity (real part)	39.929001
Relative permittivity	13.156500
Conductivity (S/m)	1.395905
Power drift (%)	-0.300000
Ambient Temperature:	22.5°C
Liquid Temperature:	22.3°C
ConvF:	40.136,34.843,38.721
Crest factor:	1:8

SURFACE SAR



VOLUME SAR

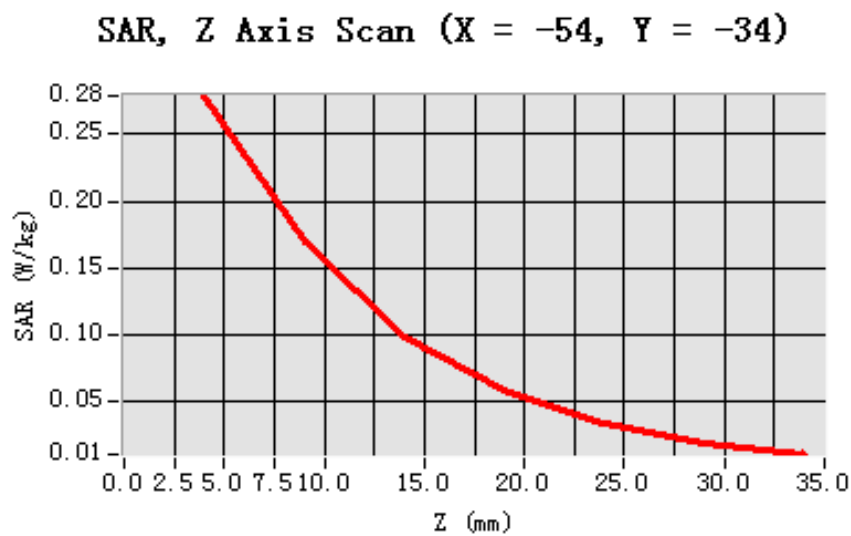


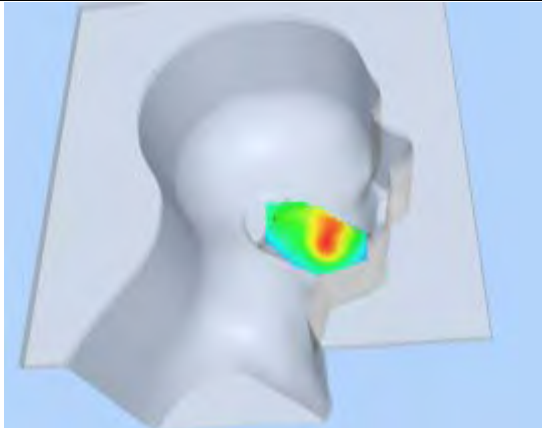
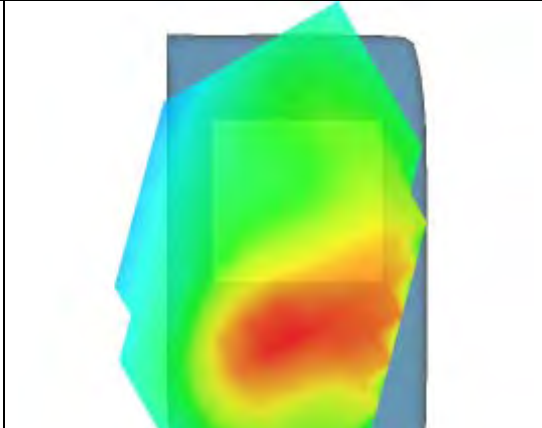
Maximum location: X=-54.00, Y=-34.00

SAR 10g (W/Kg)	0.147098
SAR 1g (W/Kg)	0.263295

Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	0.2785	0.1701	0.0978	0.0588	0.0336	0.0200



3D sceen shot	Hot spot position
	

MEASUREMENT 39

Type: Phone measurement (Complete)

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

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

Date of measurement: 12/10/2011

Measurement duration: 7 minutes 25 seconds

A. Experimental conditions.

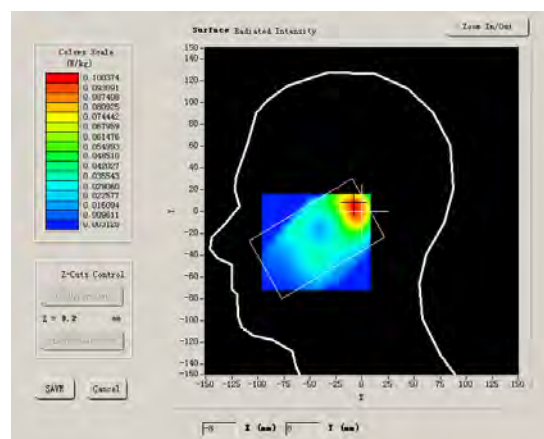
Phantom File	sam_direct_droit2_surf8mm.txt
Phantom	Left head
Device Position	Tilt
Band	GSM1900
Channels	Low
Signal	GSM

B. SAR Measurement Results

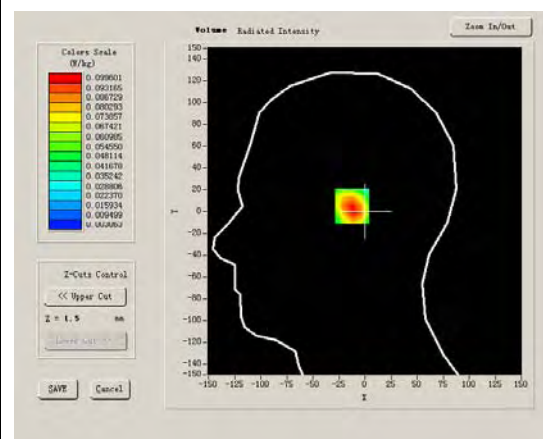
Lower Band SAR (Channel 512):

Frequency (MHz)	1850.199951
Relative permittivity (real part)	39.993999
Relative permittivity	12.991650
Conductivity (S/m)	1.335397
Power drift (%)	-0.450000
Ambient Temperature:	22.5°C
Liquid Temperature:	22.3°C
ConvF:	40.136,34.843,38.721
Crest factor:	1:8

SURFACE SAR



VOLUME SAR



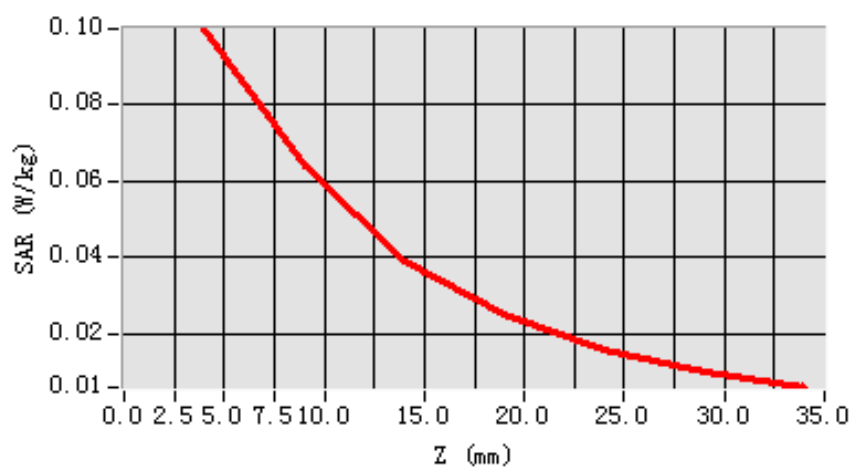
Maximum location: X=-7.00, Y=5.00

SAR 10g (W/Kg)	0.056634
SAR 1g (W/Kg)	0.095429

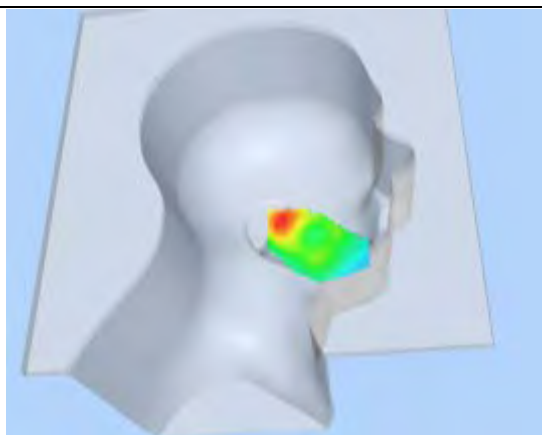
Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	0.0996	0.0641	0.0389	0.0251	0.0159	0.0103

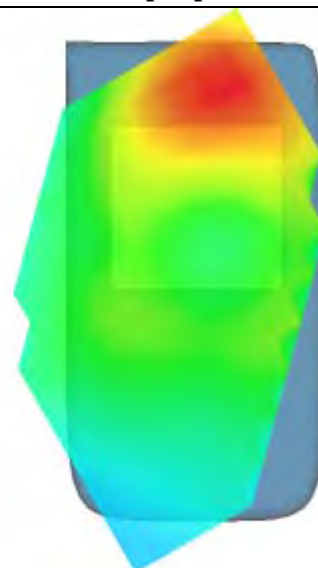
SAR, Z Axis Scan (X = -7, Y = 5)



3D sceen shot



Hot spot position



MEASUREMENT 40

Type: Phone measurement (Complete)

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

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

Date of measurement: 12/10/2011

Measurement duration: 9 minutes 8 seconds

A. Experimental conditions.

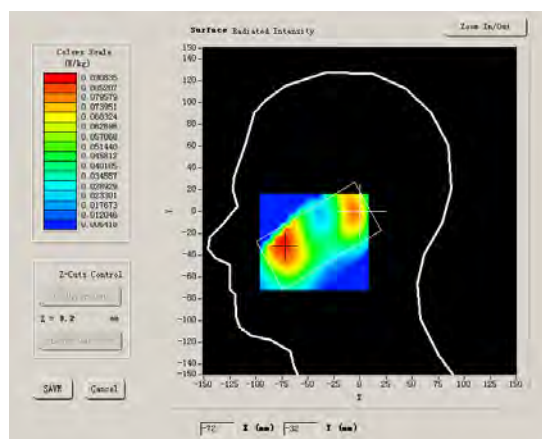
Phantom File	sam_direct_droit2_surf8mm.txt
Phantom	Left head
Device Position	Tilt
Band	GSM1900
Channels	Middle
Signal	GSM

B. SAR Measurement Results

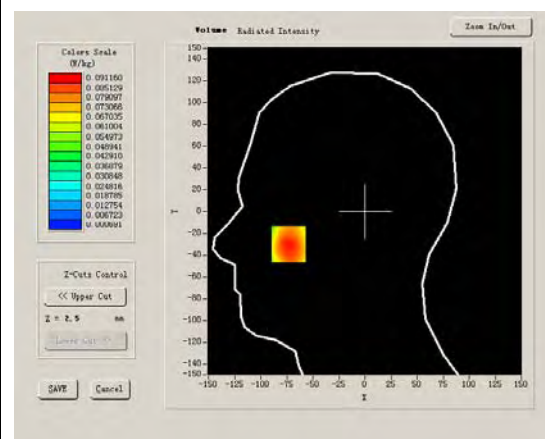
Middle Band SAR (Channel 661):

Frequency (MHz)	1880.000000
Relative permittivity (real part)	38.509998
Relative permittivity	13.750000
Conductivity (S/m)	1.436111
Power drift (%)	-0.780000
Ambient Temperature:	22.5°C
Liquid Temperature:	22.3°C
ConvF:	40.136,34.843,38.721
Crest factor:	1:8

SURFACE SAR



VOLUME SAR



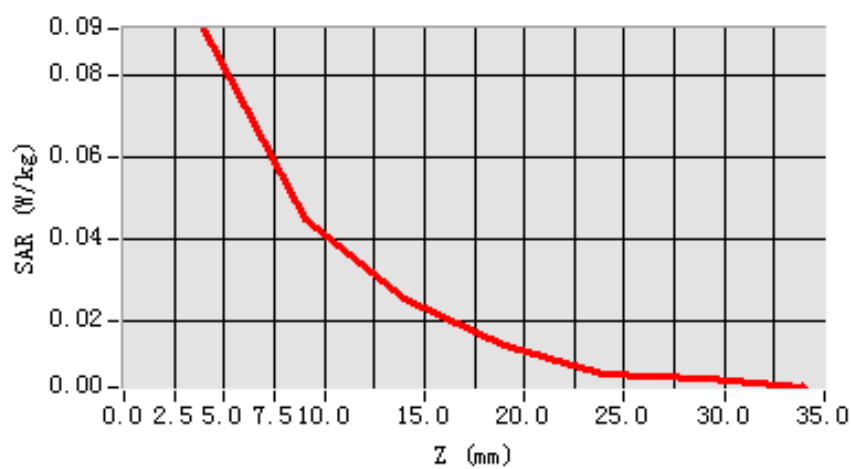
Maximum location: X=-73.00, Y=-30.00

SAR 10g (W/Kg)	0.049401
SAR 1g (W/Kg)	0.088201

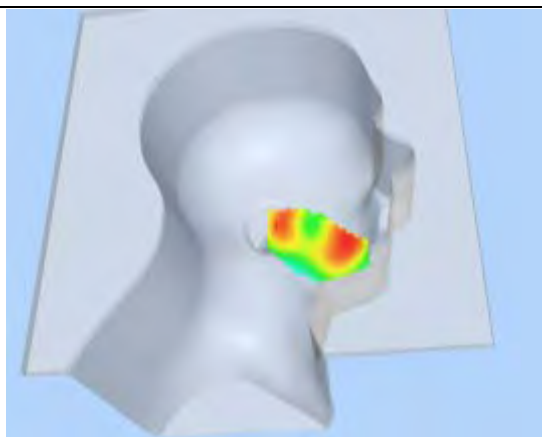
Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	0.0912	0.0448	0.0254	0.0137	0.0069	0.0056

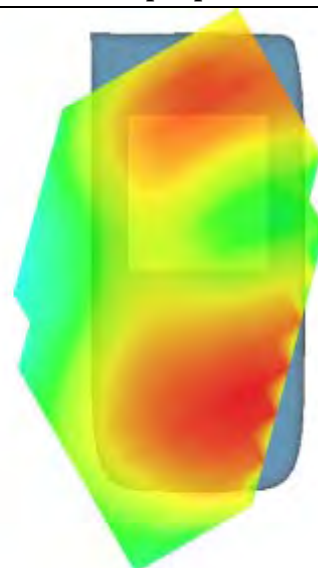
SAR, Z Axis Scan (X = -73, Y = -30)



3D sceen shot



Hot spot position



MEASUREMENT 41

Type: Phone measurement (Complete)

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

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

Date of measurement: 12/10/2011

Measurement duration: 7 minutes 22 seconds

A. Experimental conditions.

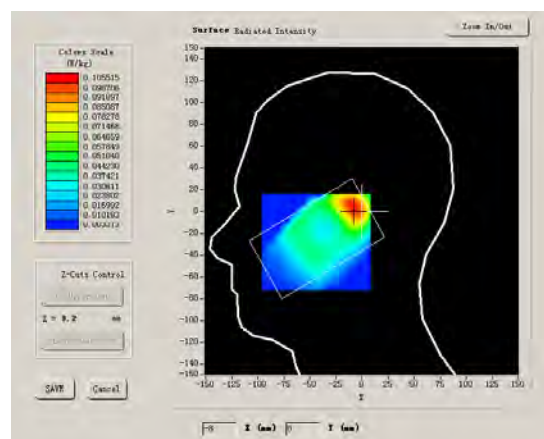
Phantom File	sam_direct_droit2_surf8mm.txt
Phantom	Left head
Device Position	Tilt
Band	GSM1900
Channels	High
Signal	GSM

B. SAR Measurement Results

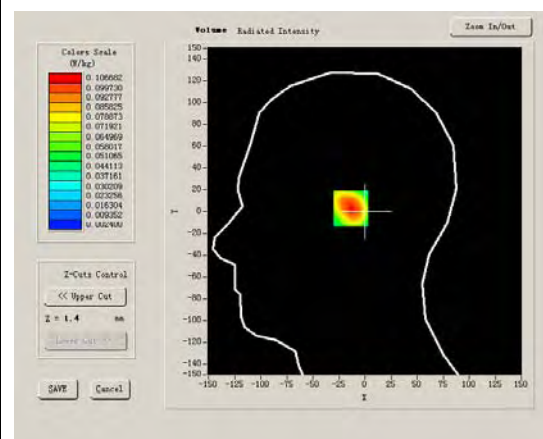
Higher Band SAR (Channel 810):

Frequency (MHz)	1909.800049
Relative permittivity (real part)	39.929001
Relative permittivity	13.156500
Conductivity (S/m)	1.395905
Power drift (%)	1.040000
Ambient Temperature:	22.5°C
Liquid Temperature:	22.3°C
ConvF:	40.136,34.843,38.721
Crest factor:	1:8

SURFACE SAR



VOLUME SAR



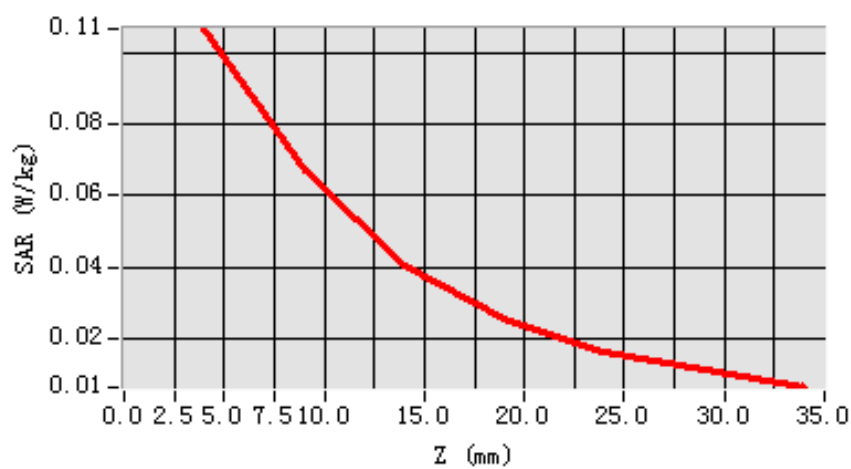
Maximum location: X=-8.00, Y=3.00

SAR 10g (W/Kg)	0.059802
SAR 1g (W/Kg)	0.101472

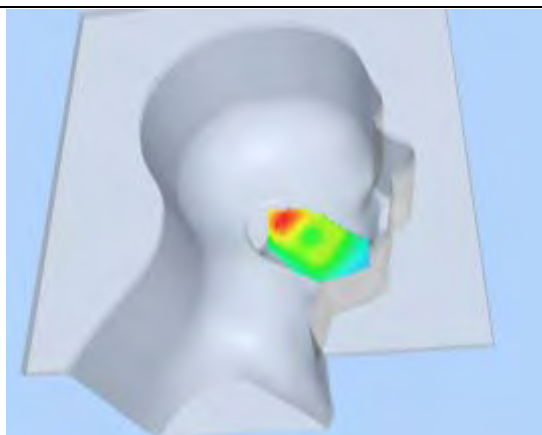
Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	0.1067	0.0672	0.0402	0.0252	0.0163	0.0110

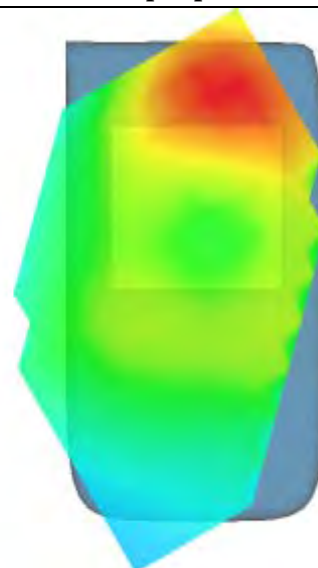
SAR, Z Axis Scan (X = -8, Y = 3)



3D sceen shot



Hot spot position



MEASUREMENT 42

Type: Phone measurement (Complete)

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

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

Date of measurement: 13/10/2011

Measurement duration: 9 minutes 9 seconds

A. Experimental conditions.

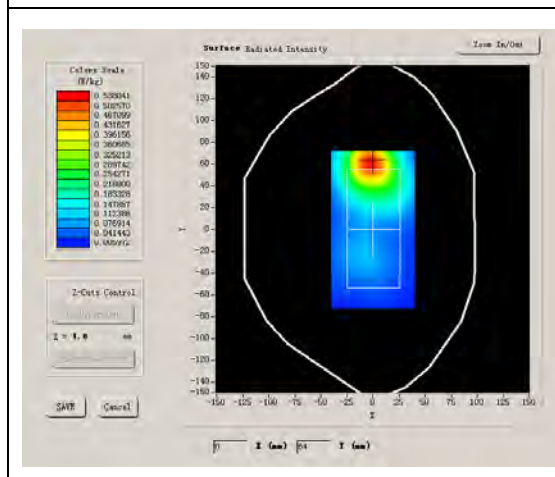
Phantom File	surf_sam_plan.txt
Phantom	Validation plane
Device Position	Body
Band	GSM1900
Channels	Middle
Signal	GSM

B. SAR Measurement Results

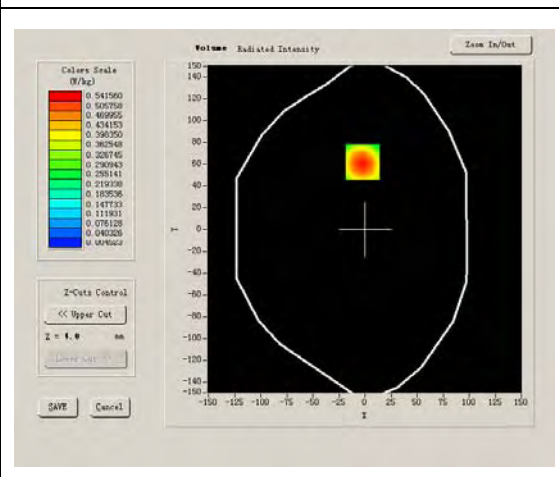
Middle Band SAR (Channel 661):

Frequency (MHz)	1880.000000
Relative permittivity (real part)	52.540001
Relative permittivity	14.070000
Conductivity (S/m)	1.469533
Power drift (%)	-0.710000
Ambient Temperature:	22.5°C
Liquid Temperature:	22.3°C
ConvF:	40.136,34.843,38.721
Crest factor:	1:8

SURFACE SAR



VOLUME SAR



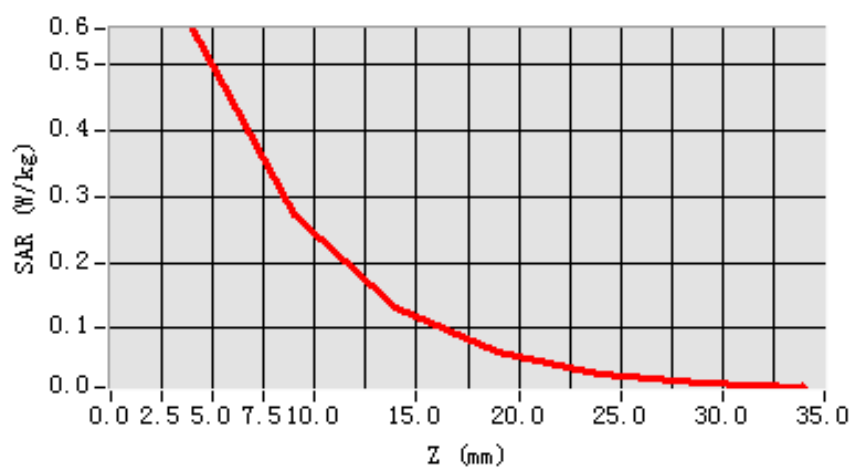
Maximum location: X=-2.00, Y=62.00

SAR 10g (W/Kg)	0.283374
SAR 1g (W/Kg)	0.535211

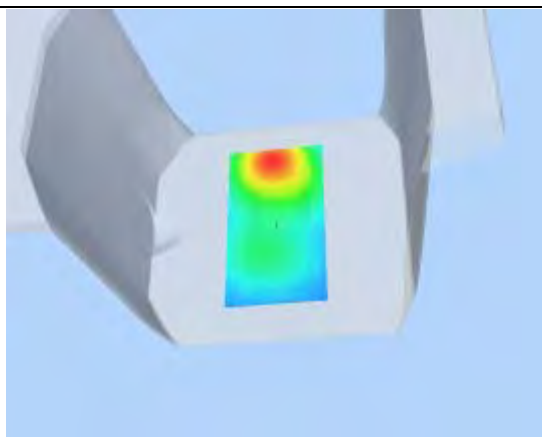
Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	0.5542	0.2719	0.1309	0.0656	0.0320	0.0165

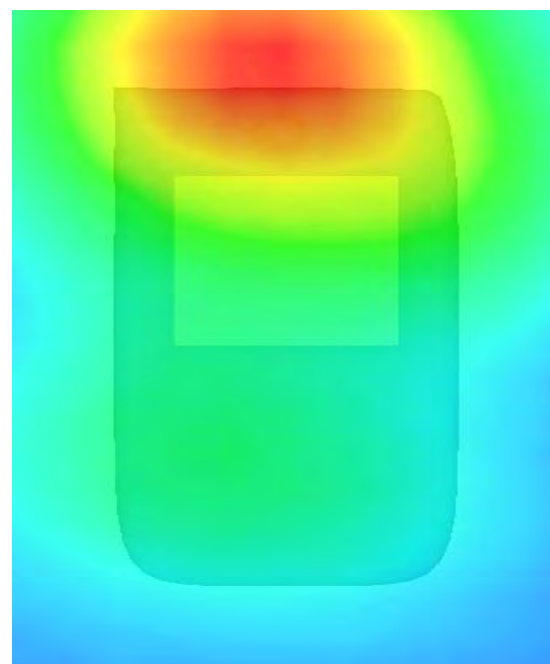
SAR, Z Axis Scan (X = -2, Y = 62)



3D scene shot



Hot spot position



MEASUREMENT 43

Type: Phone measurement (Complete)

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

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

Date of measurement: 13/10/2011

Measurement duration: 9 minutes 9 seconds

A. Experimental conditions.

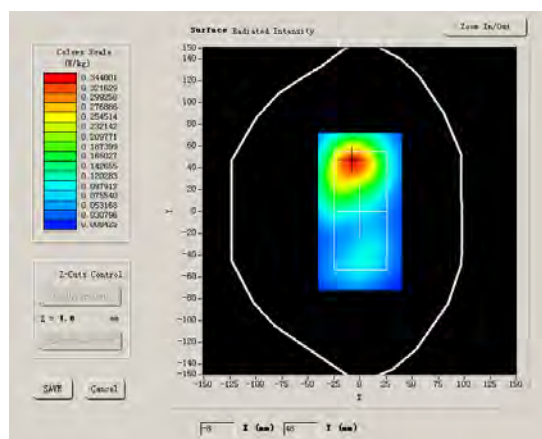
Phantom File	surf_sam_plan.txt
Phantom	Validation plane
Device Position	Body
Band	GSM1900
Channels	Middle
Signal	GSM

B. SAR Measurement Results

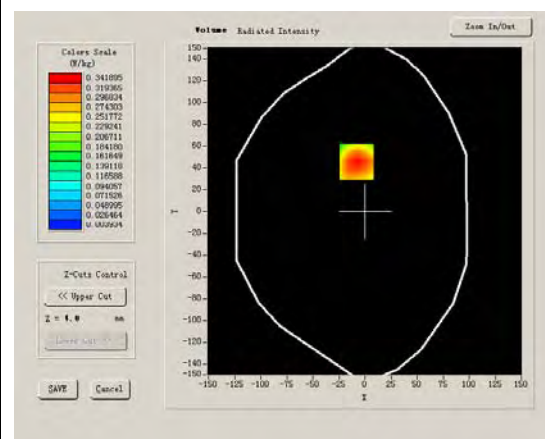
Middle Band SAR (Channel 661):

Frequency (MHz)	1880.000000
Relative permittivity (real part)	52.540001
Relative permittivity	14.070000
Conductivity (S/m)	1.469533
Power drift (%)	-1.450000
Ambient Temperature:	22.5°C
Liquid Temperature:	22.3°C
ConvF:	40.136,34.843,38.721
Crest factor:	1:8

SURFACE SAR



VOLUME SAR



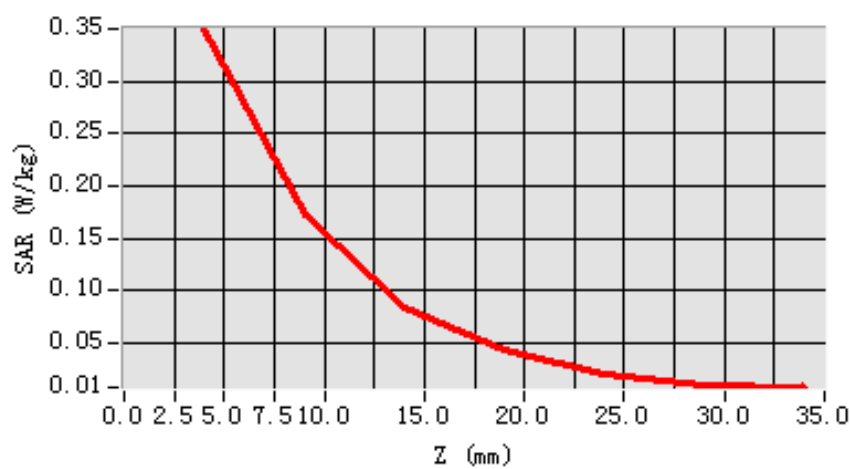
Maximum location: X=-8.00, Y=46.00

SAR 10g (W/Kg)	0.182686
SAR 1g (W/Kg)	0.337805

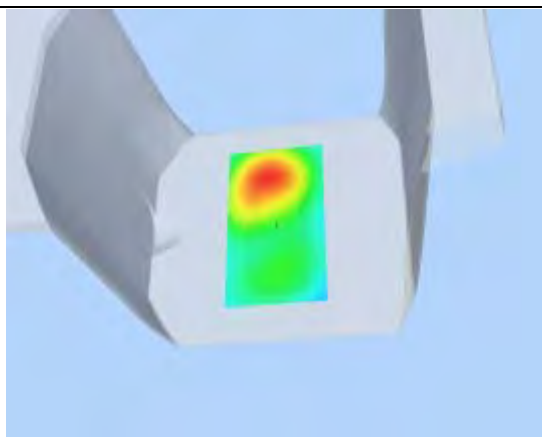
Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	0.3499	0.1729	0.0849	0.0447	0.0216	0.0111

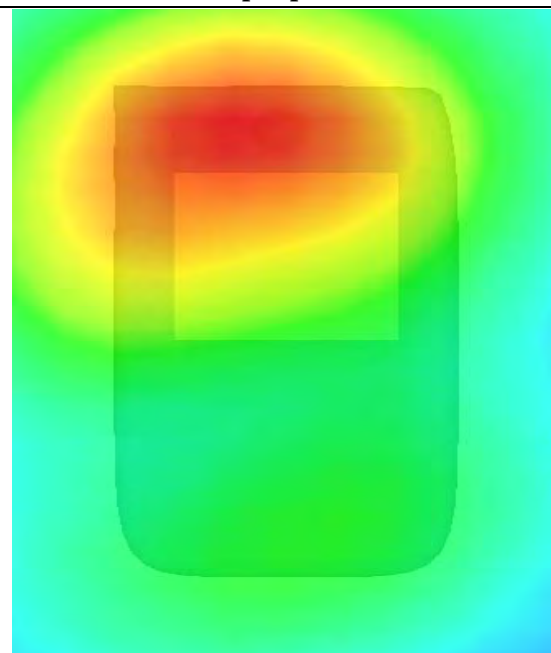
SAR, Z Axis Scan (X = -8, Y = 46)



3D scene shot



Hot spot position



MEASUREMENT 44

Type: Phone measurement (Complete)

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

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

Date of measurement: 13/10/2011

Measurement duration: 9 minutes 25 seconds

A. Experimental conditions.

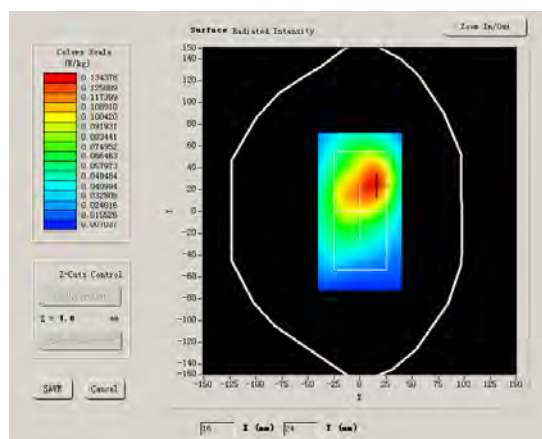
Phantom File	surf_sam_plan.txt
Phantom	Validation plane
Device Position	Body
Band	GSM1900
Channels	Middle
Signal	GSM

B. SAR Measurement Results

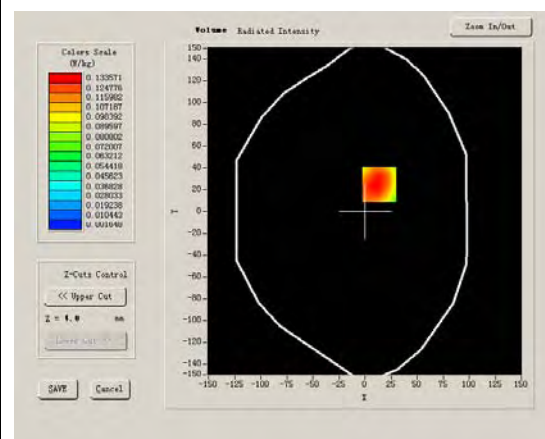
Middle Band SAR (Channel 661):

Frequency (MHz)	1880.000000
Relative permittivity (real part)	52.540001
Relative permittivity	14.070000
Conductivity (S/m)	1.469533
Power drift (%)	0.490000
Ambient Temperature:	22.5°C
Liquid Temperature:	22.3°C
ConvF:	40.136,34.843,38.721
Crest factor:	1:8

SURFACE SAR



VOLUME SAR



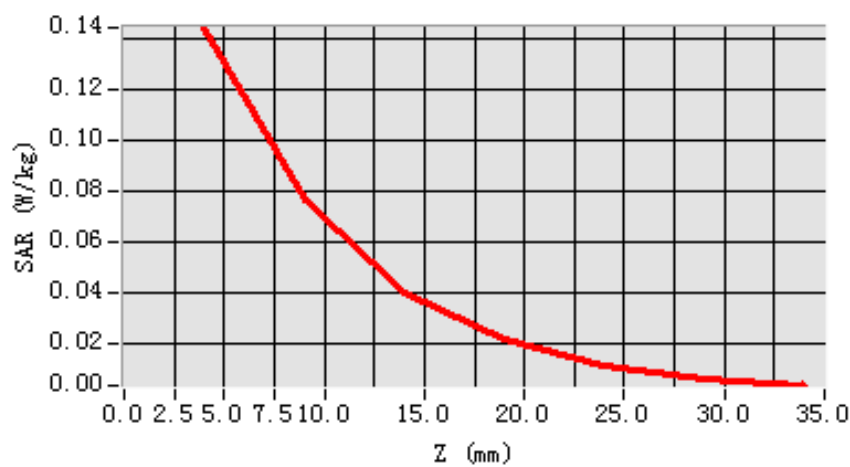
Maximum location: X=14.00, Y=25.00

SAR 10g (W/Kg)	0.079938
SAR 1g (W/Kg)	0.142478

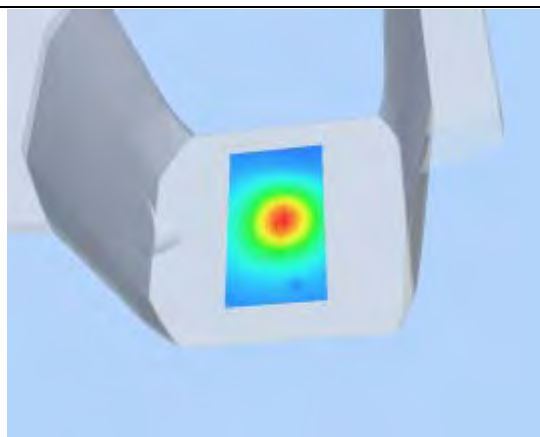
Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	0.1447	0.0763	0.0395	0.0211	0.0111	0.0060

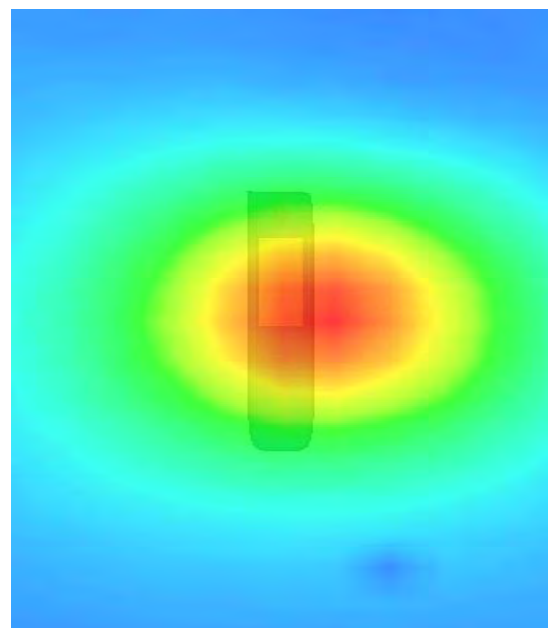
SAR, Z Axis Scan (X = 14, Y = 25)



3D sceen shot



Hot spot position



MEASUREMENT 45

Type: Phone measurement (Complete)

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

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

Date of measurement: 13/10/2011

Measurement duration: 9 minutes 25 seconds

A. Experimental conditions.

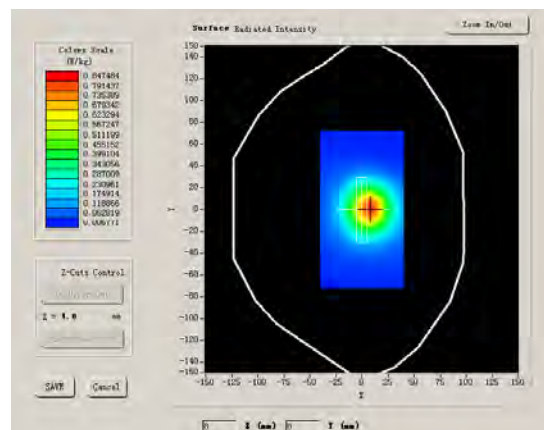
Phantom File	surf_sam_plan.txt
Phantom	Validation plane
Device Position	Body
Band	GSM1900
Channels	Middle
Signal	GSM

B. SAR Measurement Results

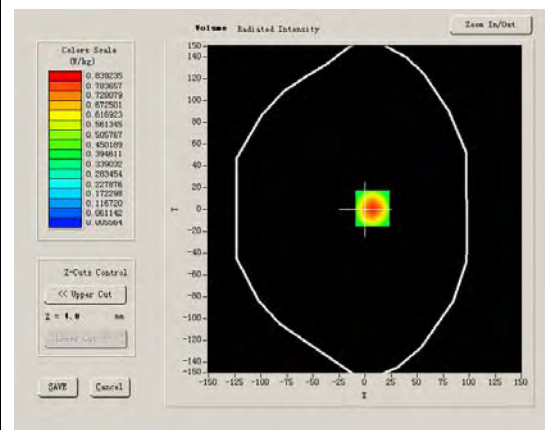
Middle Band SAR (Channel 661):

Frequency (MHz)	1880.000000
Relative permittivity (real part)	52.540001
Relative permittivity	14.070000
Conductivity (S/m)	1.469533
Power drift (%)	0.490000
Ambient Temperature:	22.5°C
Liquid Temperature:	22.3°C
ConvF:	40.136,34.843,38.721
Crest factor:	1:8

SURFACE SAR



VOLUME SAR



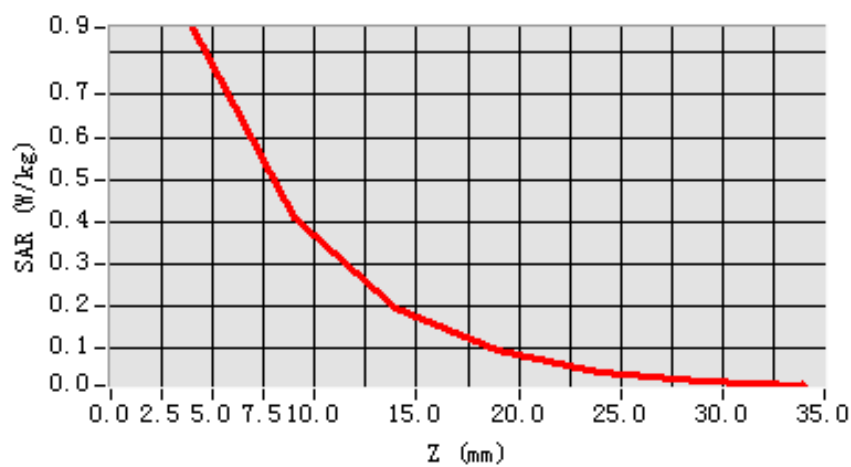
Maximum location: X=7.00, Y=1.00

SAR 10g (W/Kg)	0.411751
SAR 1g (W/Kg)	0.761617

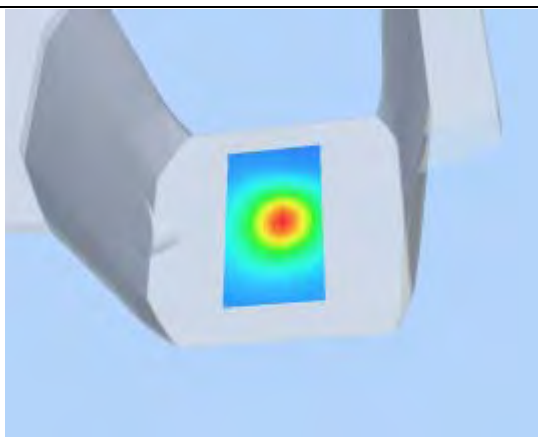
Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	0.8588	0.4099	0.1963	0.0947	0.0452	0.0223

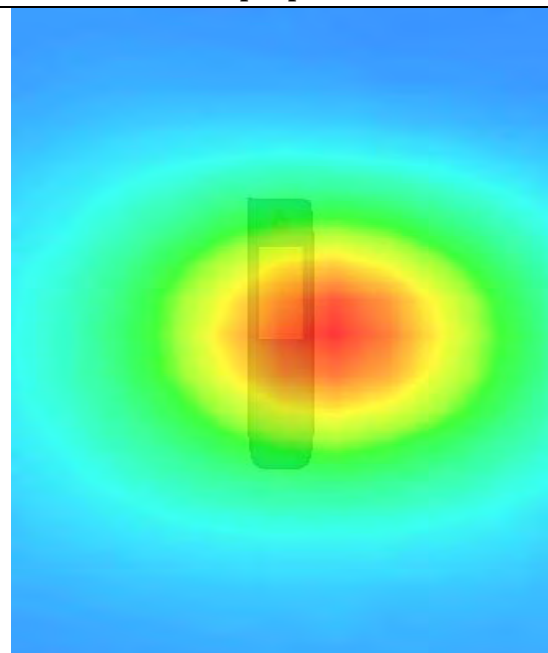
SAR, Z Axis Scan (X = 7, Y = 1)



3D sceen shot



Hot spot position



MEASUREMENT 46

Type: Phone measurement (Complete)

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

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

Date of measurement: 13/10/2011

Measurement duration: 9 minutes 25 seconds

A. Experimental conditions.

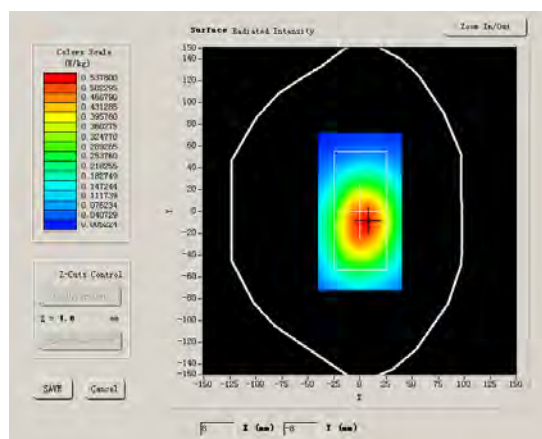
Phantom File	surf_sam_plan.txt
Phantom	Validation plane
Device Position	Body
Band	GSM1900
Channels	Middle
Signal	GSM

B. SAR Measurement Results

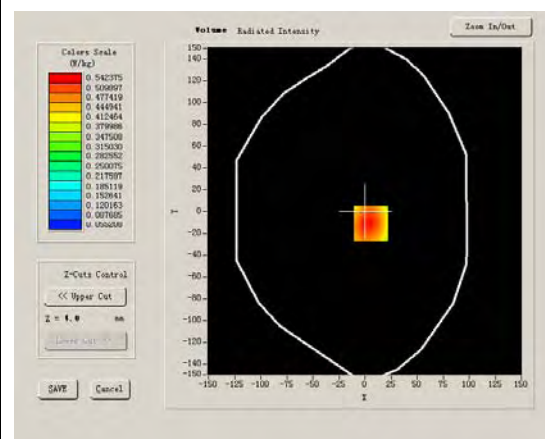
Middle Band SAR (Channel 661):

Frequency (MHz)	1880.000000
Relative permittivity (real part)	52.540001
Relative permittivity	14.070000
Conductivity (S/m)	1.469533
Power drift (%)	0.490000
Ambient Temperature:	22.5°C
Liquid Temperature:	22.3°C
ConvF:	40.136,34.843,38.721
Crest factor:	1:8

SURFACE SAR



VOLUME SAR



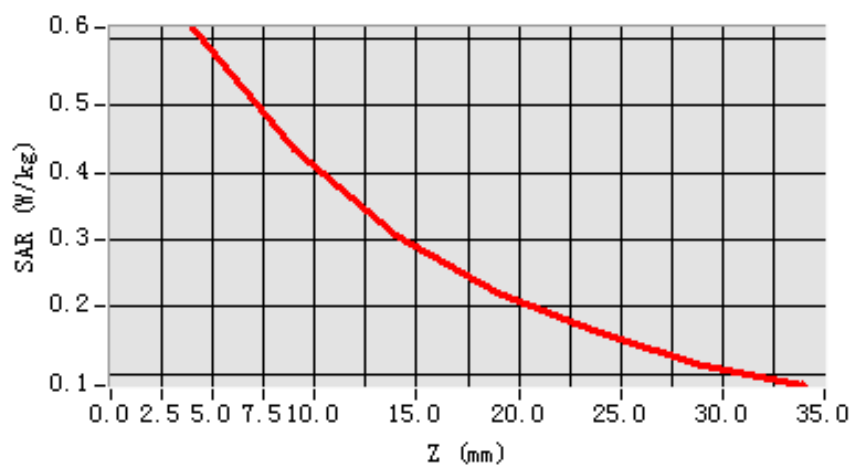
Maximum location: X=6.00, Y=-11.00

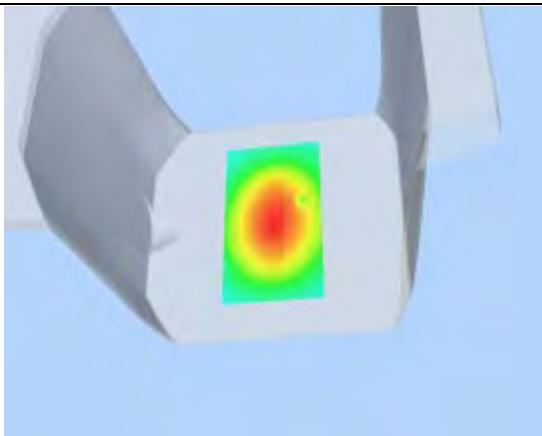
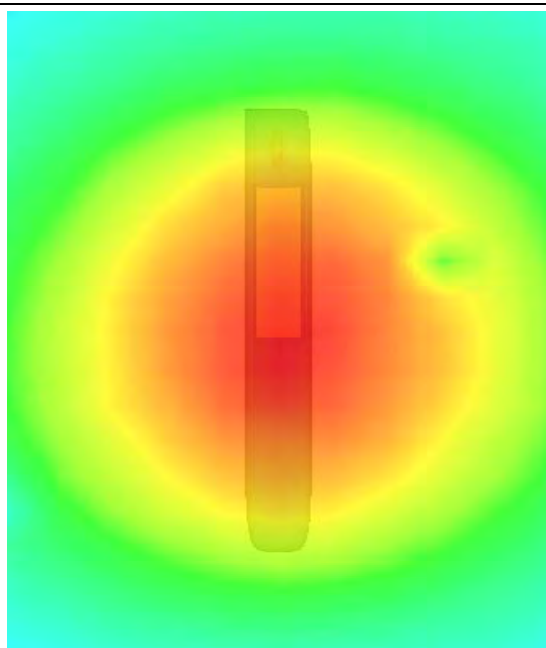
SAR 10g (W/Kg)	0.406601
SAR 1g (W/Kg)	0.596975

Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	0.6158	0.4350	0.3060	0.2207	0.1612	0.1124

SAR, Z Axis Scan (X = 6, Y = -11)



3D sceen shot	Hot spot position
	

MEASUREMENT 47

Type: Phone measurement (Complete)

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

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

Date of measurement: 13/10/2011

Measurement duration: 9 minutes 10 seconds

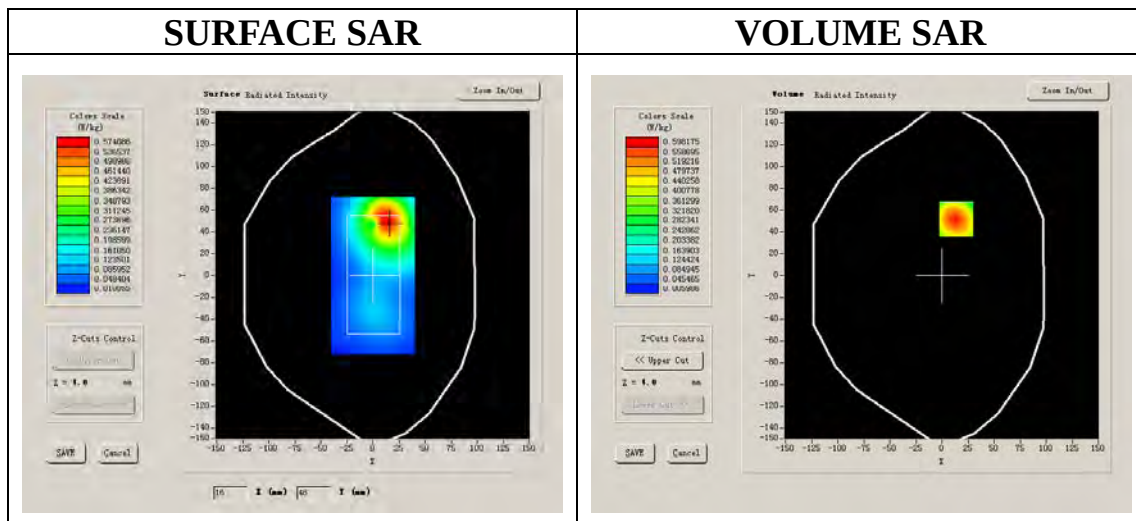
A. Experimental conditions.

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

B. SAR Measurement Results

Middle Band SAR (Channel 661):

Frequency (MHz)	1880.000000
Relative permittivity (real part)	52.540001
Relative permittivity	14.070000
Conductivity (S/m)	1.469533
Power drift (%)	-0.820000
Ambient Temperature:	22.5°C
Liquid Temperature:	22.3°C
ConvF:	40.136,34.843,38.721
Crest factor:	1:2



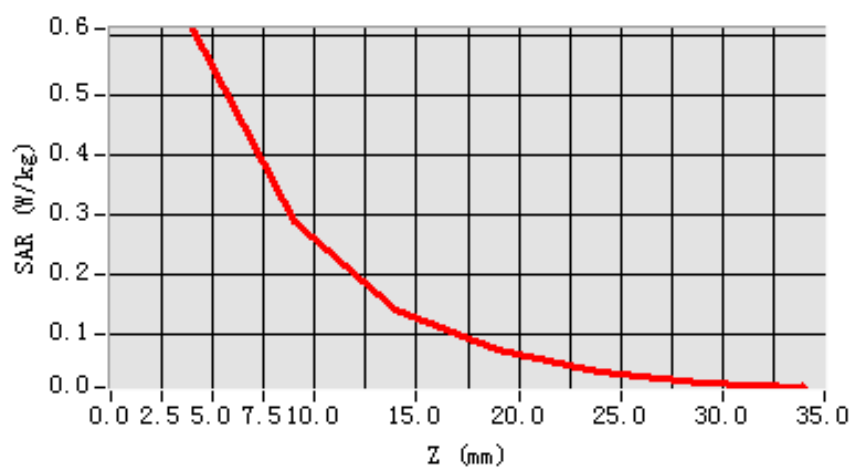
Maximum location: X=14.00, Y=52.00

SAR 10g (W/Kg)	0.305066
SAR 1g (W/Kg)	0.581797

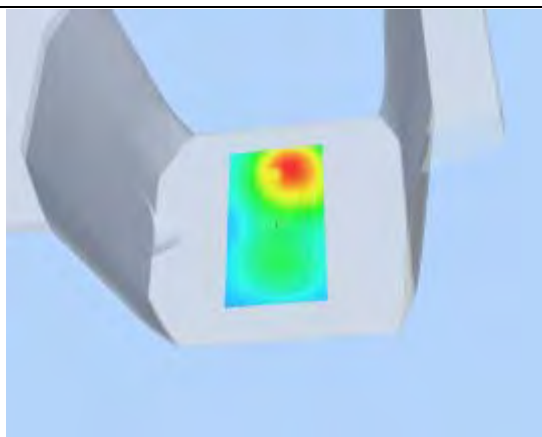
Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	0.6121	0.2894	0.1412	0.0729	0.0365	0.0205

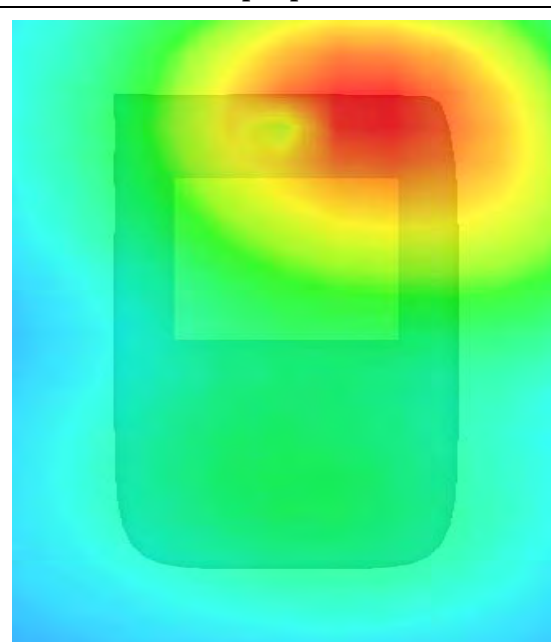
SAR, Z Axis Scan (X = 14, Y = 52)



3D scene shot



Hot spot position



MEASUREMENT 48

Type: Phone measurement (Complete)

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

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

Date of measurement: 13/10/2011

Measurement duration: 9 minutes 7 seconds

A. Experimental conditions.

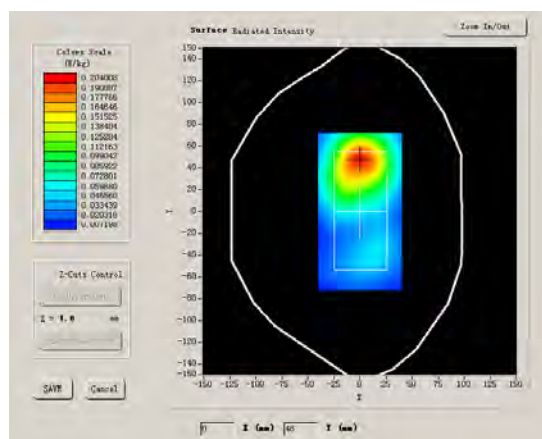
Phantom File	surf_sam_plan.txt
Phantom	Validation plane
Device Position	Body
Band	GSM1900
Channels	Middle
Signal	GPRS

B. SAR Measurement Results

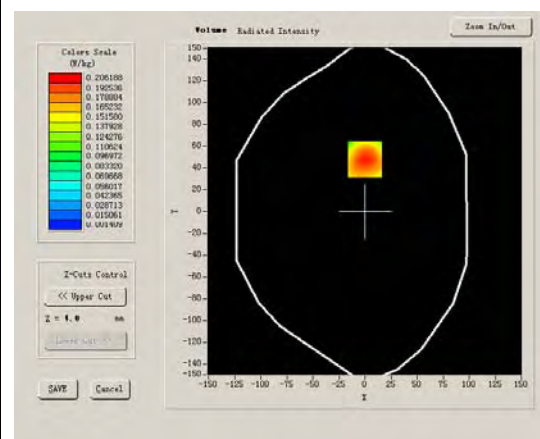
Middle Band SAR (Channel 661):

Frequency (MHz)	1880.000000
Relative permittivity (real part)	52.540001
Relative permittivity	14.070000
Conductivity (S/m)	1.469533
Power drift (%)	-824.309998
Ambient Temperature:	22.5°C
Liquid Temperature:	22.3°C
ConvF:	40.136,34.843,38.721
Crest factor:	1:2

SURFACE SAR



VOLUME SAR



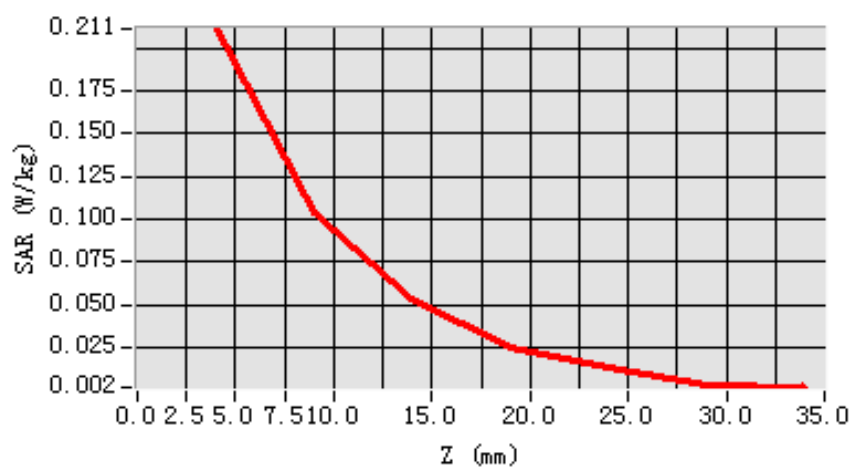
Maximum location: X=0.00, Y=48.00

SAR 10g (W/Kg)	0.110395
SAR 1g (W/Kg)	0.202813

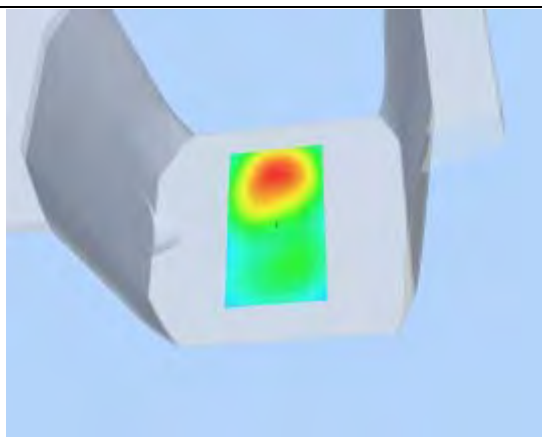
Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	0.2110	0.1036	0.0532	0.0251	0.0132	0.0029

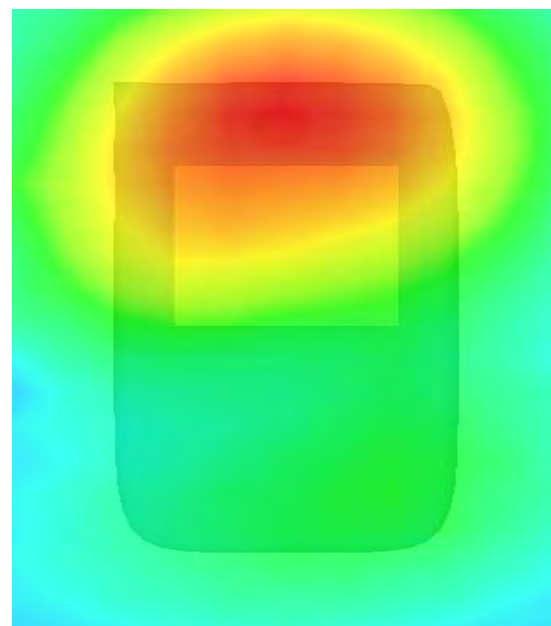
SAR, Z Axis Scan (X = 0, Y = 48)



3D sceen shot



Hot spot position



MEASUREMENT 49

Type: Phone measurement (Complete)

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

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

Date of measurement: 12/10/2011

Measurement duration: 9 minutes 12 seconds.

A. Experimental conditions.

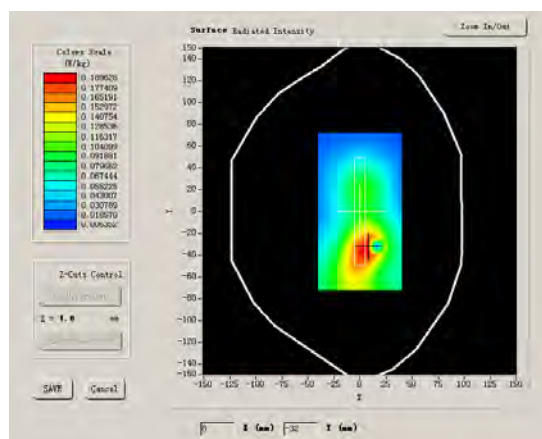
Phantom File	surf_sam_plan.txt
Phantom	Validation plane
Device Position	Body
Band	GSM1900
Channels	Middle
Signal	GPRS

B. SAR Measurement Results

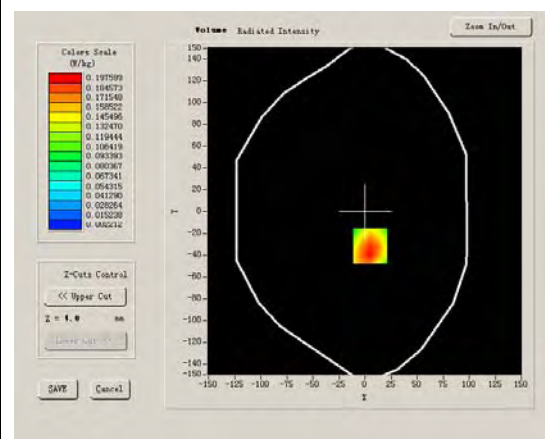
Middle Band SAR (Channel 661):

Frequency (MHz)	1880.000000
Relative permittivity (real part)	52.540001
Relative permittivity	14.070000
Conductivity (S/m)	1.469533
Power drift (%)	-1.580000
Ambient Temperature:	22.5°C
Liquid Temperature:	22.3°C
ConvF:	40.136,34.843,38.721
Crest factor:	1:2

SURFACE SAR



VOLUME SAR



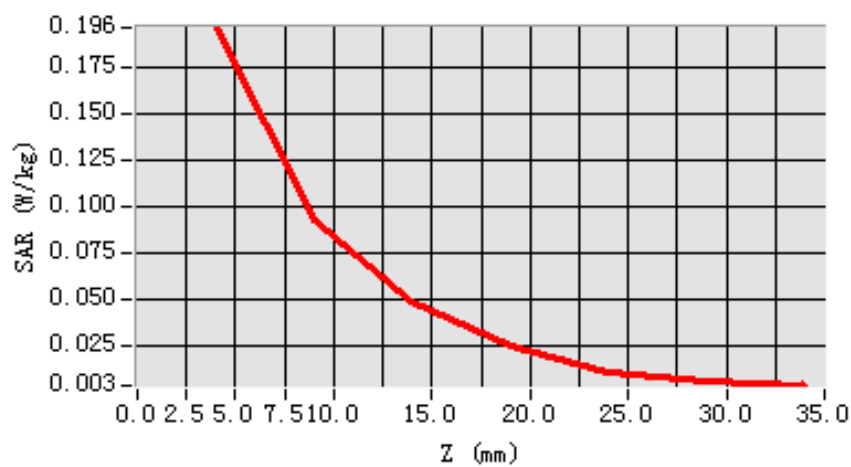
Maximum location: X=5.00, Y=-32.00

SAR 10g (W/Kg)	0.102117
SAR 1g (W/Kg)	0.194436

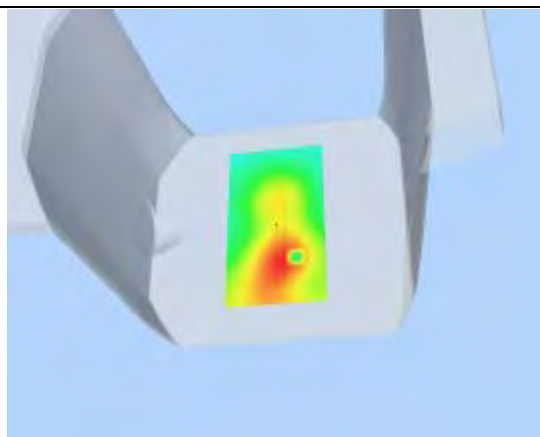
Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	0.1958	0.0928	0.0482	0.0243	0.0110	0.0062

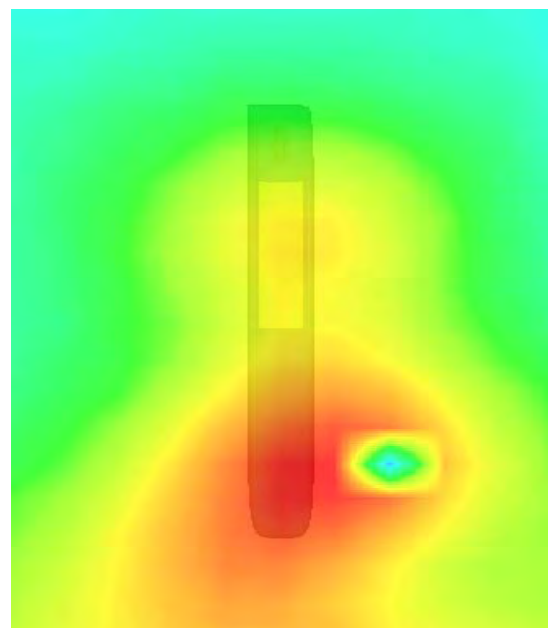
SAR, Z Axis Scan (X = 5, Y = -32)



3D scene shot



Hot spot position



MEASUREMENT 50

Type: Phone measurement (Complete)

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

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

Date of measurement: 12/10/2011

Measurement duration: 9 minutes 6 seconds

A. Experimental conditions.

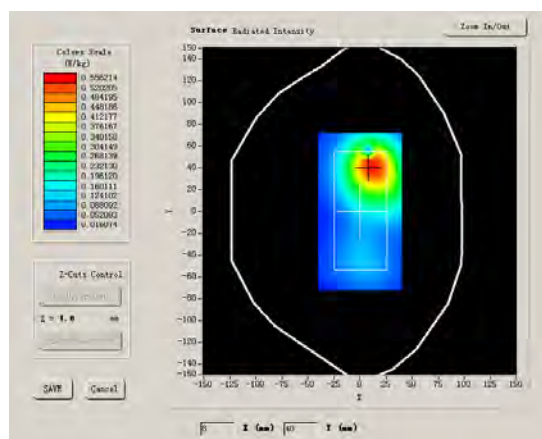
Phantom File	surf_sam_plan.txt
Phantom	Validation plane
Device Position	Body
Band	GSM1900
Channels	Middle
Signal	GPRS

B. SAR Measurement Results

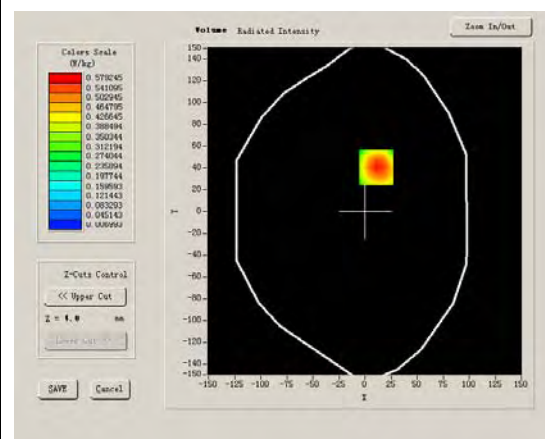
Middle Band SAR (Channel 661):

Frequency (MHz)	1880.000000
Relative permittivity (real part)	52.540001
Relative permittivity	14.070000
Conductivity (S/m)	1.469533
Power drift (%)	-0.310000
Ambient Temperature:	22.5°C
Liquid Temperature:	22.3°C
ConvF:	40.136,34.843,38.721
Crest factor:	1:2

SURFACE SAR



VOLUME SAR



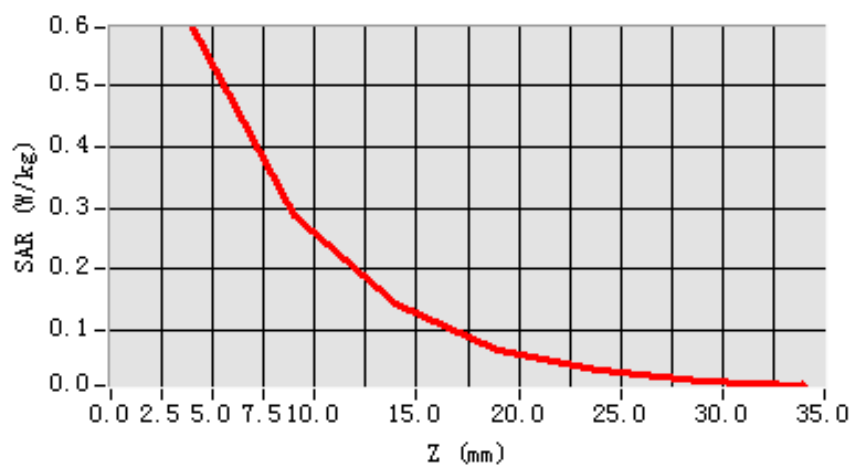
Maximum location: X=11.00, Y=41.00

SAR 10g (W/Kg)	0.298919
SAR 1g (W/Kg)	0.567283

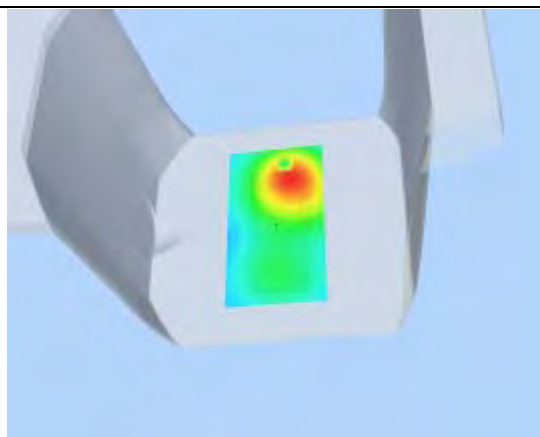
Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	0.5927	0.2878	0.1422	0.0697	0.0359	0.0185

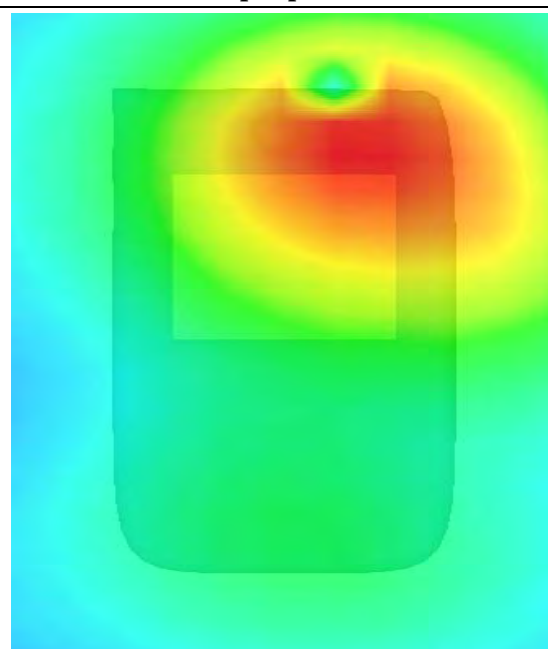
SAR, Z Axis Scan (X = 11, Y = 41)



3D scene shot



Hot spot position



MEASUREMENT 51

Type: Phone measurement (Complete)

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

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

Date of measurement: 12/10/2011

Measurement duration: 9 minutes 6 seconds

A. Experimental conditions.

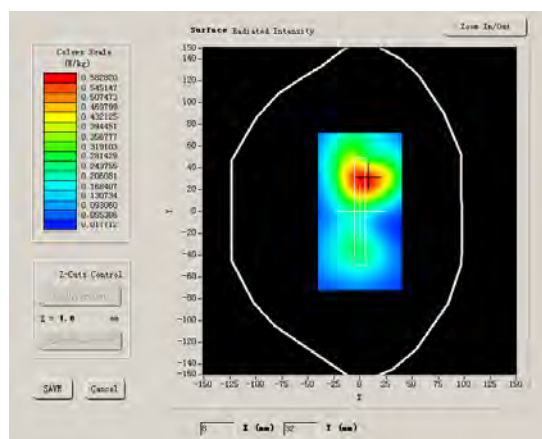
Phantom File	surf_sam_plan.txt
Phantom	Validation plane
Device Position	Body
Band	GSM1900
Channels	Middle
Signal	GPRS

B. SAR Measurement Results

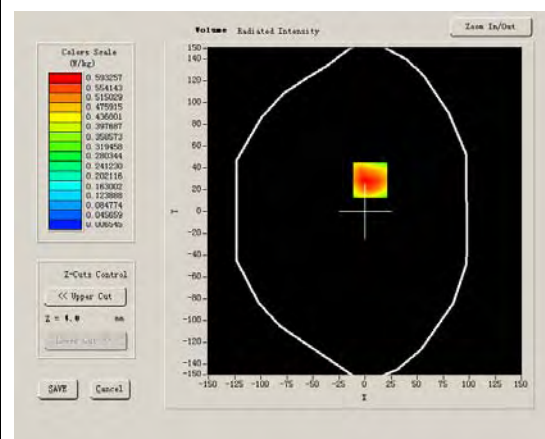
Middle Band SAR (Channel 661):

Frequency (MHz)	1880.000000
Relative permittivity (real part)	52.540001
Relative permittivity	14.070000
Conductivity (S/m)	1.469533
Power drift (%)	-0.310000
Ambient Temperature:	22.5°C
Liquid Temperature:	22.3°C
ConvF:	40.136,34.843,38.721
Crest factor:	1:2

SURFACE SAR



VOLUME SAR



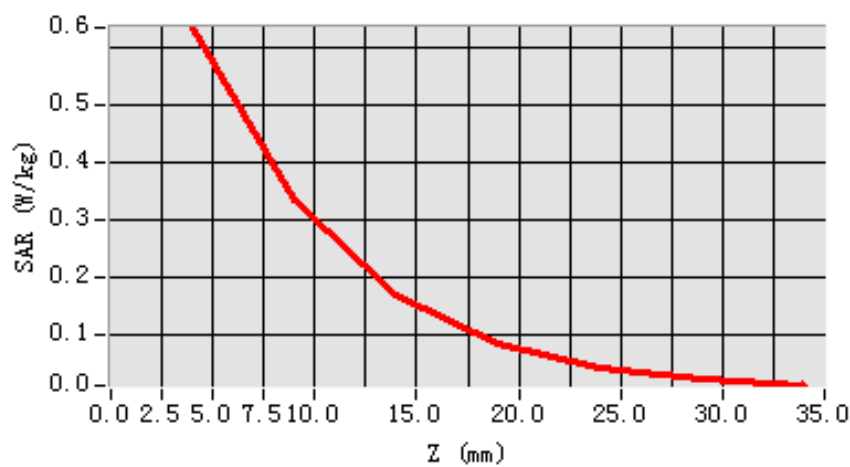
Maximum location: X=5.00, Y=29.00

SAR 10g (W/Kg)	0.337828
SAR 1g (W/Kg)	0.621266

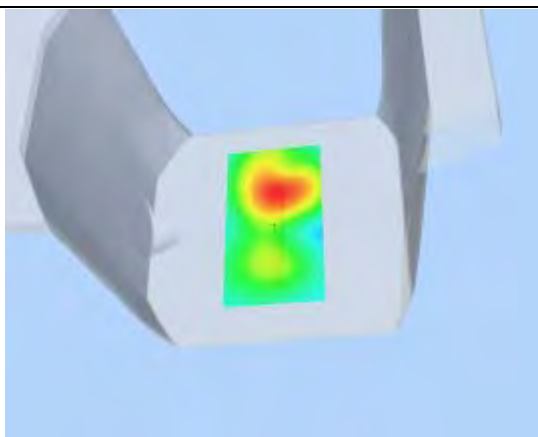
Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	0.6347	0.3332	0.1682	0.0848	0.0427	0.0236

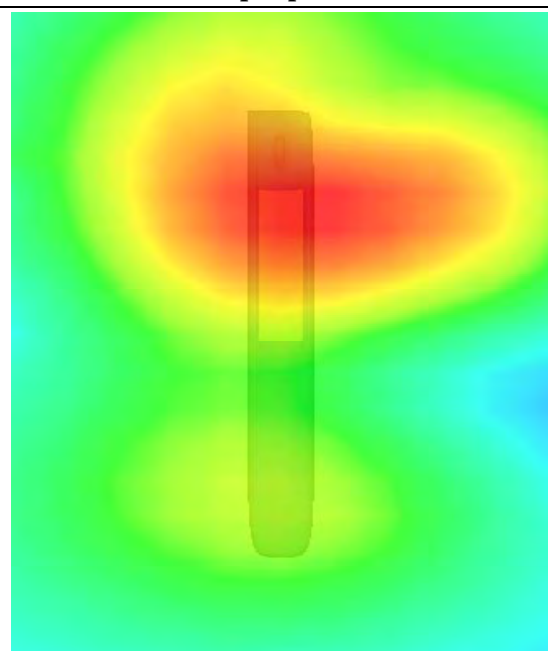
SAR, Z Axis Scan (X = 5, Y = 29)



3D scene shot



Hot spot position



MEASUREMENT 52

Type: Phone measurement (Complete)

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

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

Date of measurement: 12/10/2011

Measurement duration: 9 minutes 8 seconds

A. Experimental conditions.

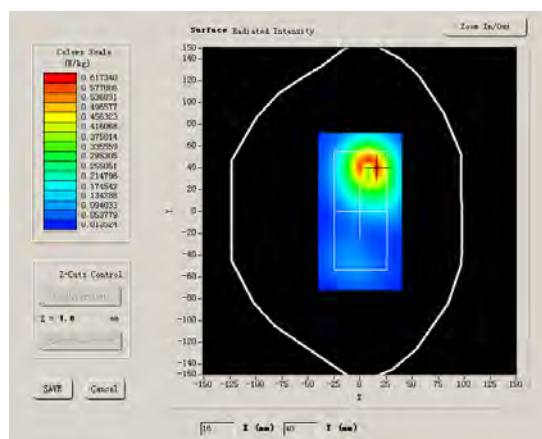
Phantom File	surf_sam_plan.txt
Phantom	Validation plane
Device Position	Body
Band	GSM1900
Channels	High
Signal	EDGE

B. SAR Measurement Results

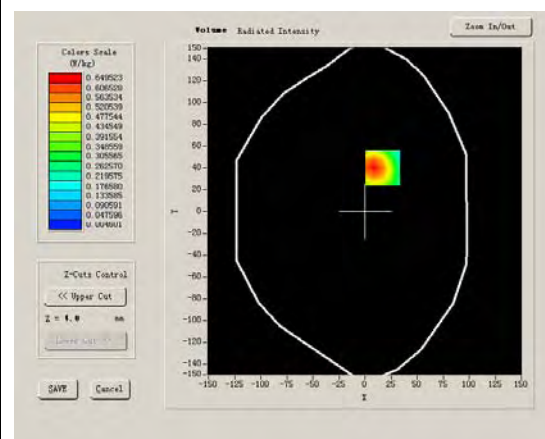
Higher Band SAR (Channel 810):

Frequency (MHz)	1909.800049
Relative permittivity (real part)	52.540001
Relative permittivity	14.070000
Conductivity (S/m)	1.492827
Power drift (%)	-1.410000
Ambient Temperature:	22.5°C
Liquid Temperature:	22.3°C
ConvF:	40.136,34.843,38.721
Crest factor:	1:2

SURFACE SAR



VOLUME SAR



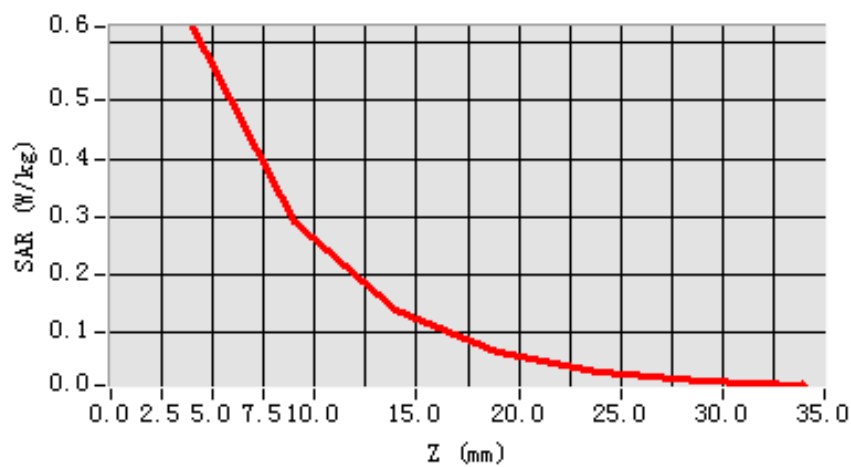
Maximum location: X=17.00, Y=40.00

SAR 10g (W/Kg)	0.338907
SAR 1g (W/Kg)	0.658746

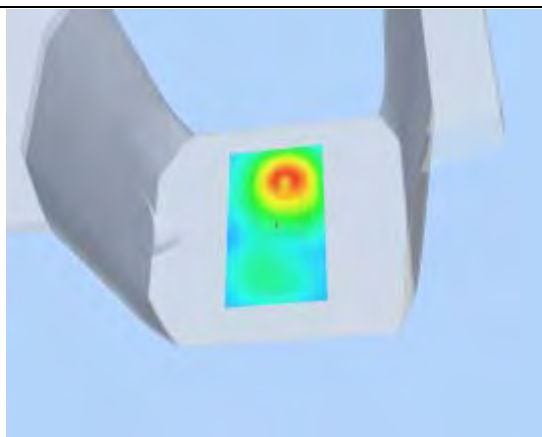
Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	0.6270	0.2899	0.1400	0.0661	0.0341	0.0185

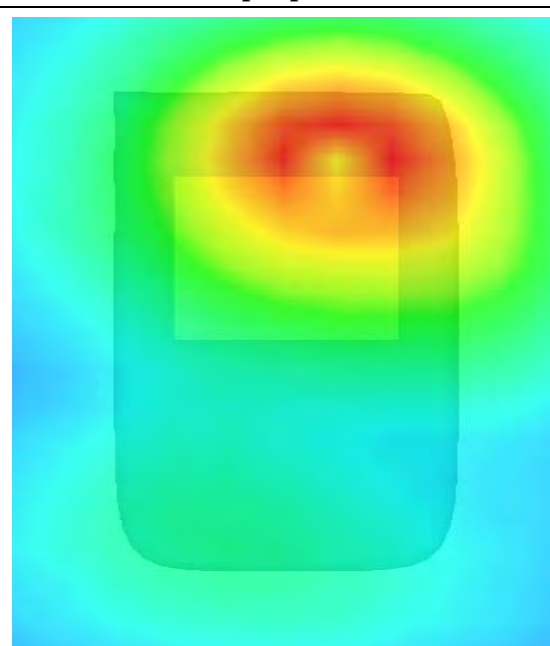
SAR, Z Axis Scan (X = 17, Y = 40)



3D scene shot



Hot spot position



MEASUREMENT 53

Type: Phone measurement (Complete)

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

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

Date of measurement: 12/10/2011

Measurement duration: 9 minutes 8 seconds

A. Experimental conditions.

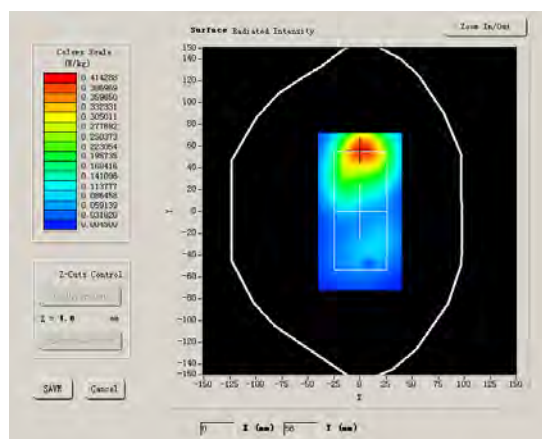
Phantom File	surf_sam_plan.txt
Phantom	Validation plane
Device Position	Body
Band	GSM1900
Channels	High
Signal	EDGE

B. SAR Measurement Results

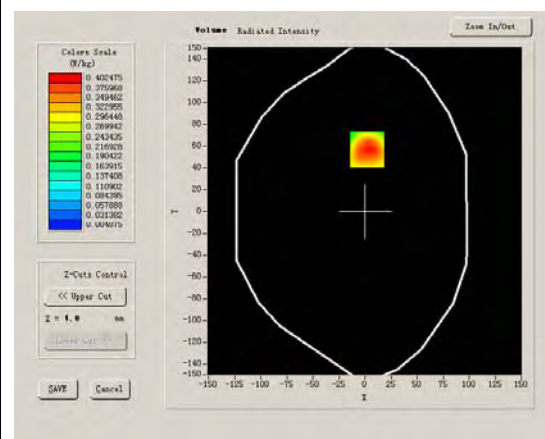
Higher Band SAR (Channel 810):

Frequency (MHz)	1909.800049
Relative permittivity (real part)	52.540001
Relative permittivity	14.070000
Conductivity (S/m)	1.492827
Power drift (%)	-2.410000
Ambient Temperature:	22.5°C
Liquid Temperature:	22.3°C
ConvF:	40.136,34.843,38.721
Crest factor:	1:2

SURFACE SAR



VOLUME SAR



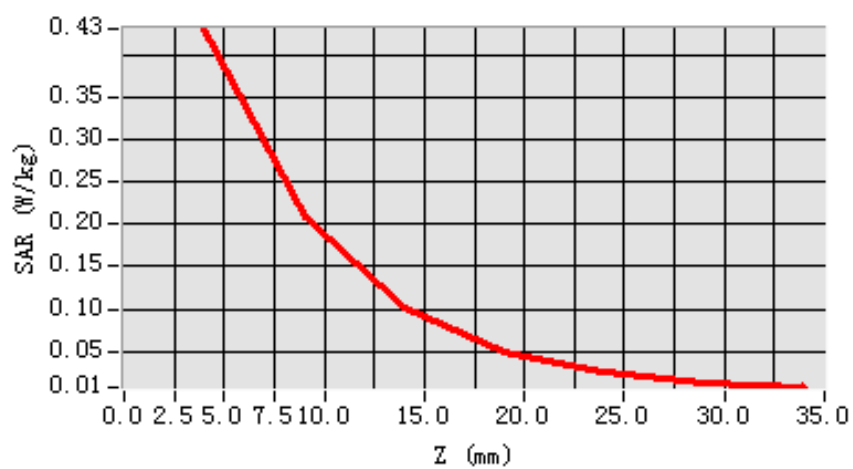
Maximum location: X=2.00, Y=57.00

SAR 10g (W/Kg)	0.219887
SAR 1g (W/Kg)	0.416725

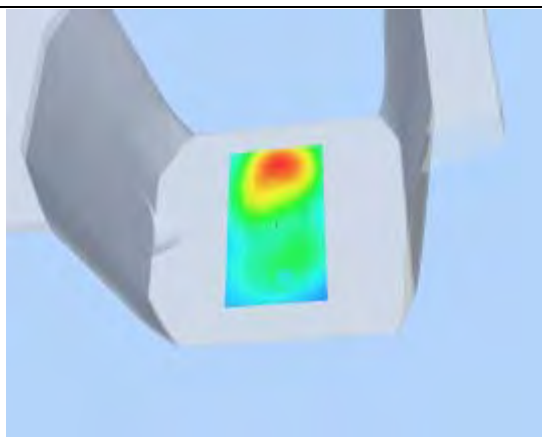
Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	0.4304	0.2078	0.1006	0.0501	0.0252	0.0138

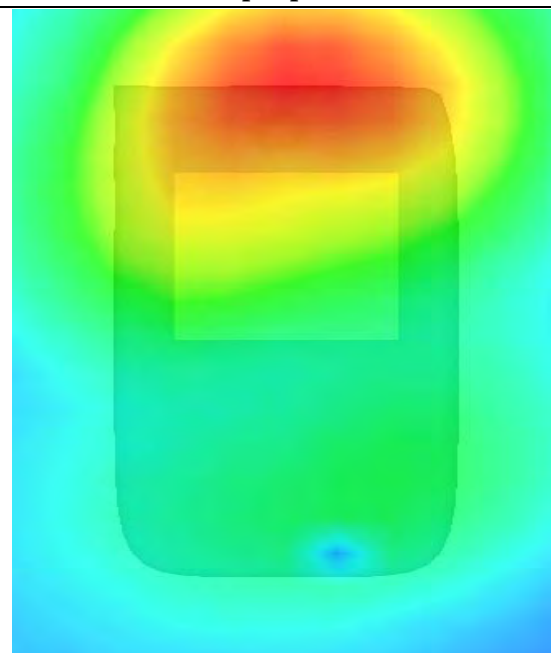
SAR, Z Axis Scan (X = 2, Y = 57)



3D sceen shot



Hot spot position



MEASUREMENT 54

Type: Phone measurement (Complete)

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

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

Date of measurement: 12/10/2011

Measurement duration: 9 minutes 10 seconds

A. Experimental conditions.

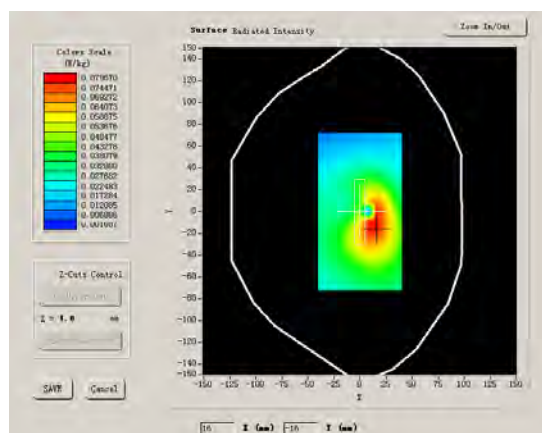
Phantom File	surf_sam_plan.txt
Phantom	Validation plane
Device Position	Body
Band	GSM1900
Channels	High
Signal	EDGE

B. SAR Measurement Results

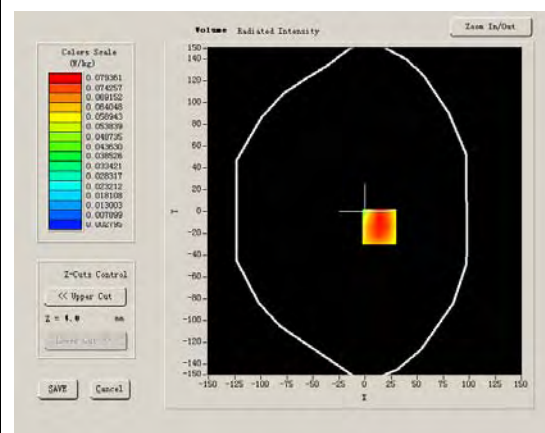
Higher Band SAR (Channel 810):

Frequency (MHz)	1909.800049
Relative permittivity (real part)	52.540001
Relative permittivity	14.070000
Conductivity (S/m)	1.492827
Power drift (%)	0.410000
Ambient Temperature:	22.5°C
Liquid Temperature:	22.3°C
ConvF:	40.136,34.843,38.721
Crest factor:	1:2

SURFACE SAR



VOLUME SAR



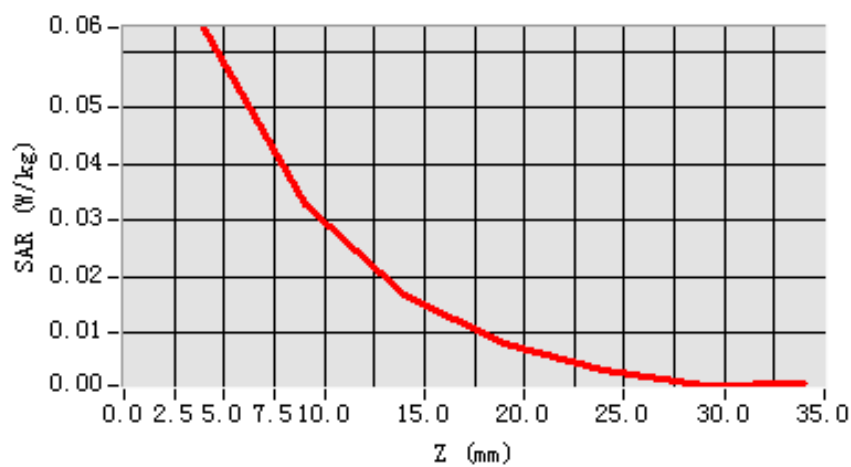
Maximum location: X=15.00, Y=55.00

SAR 10g (W/Kg)	0.035691
SAR 1g (W/Kg)	0.064193

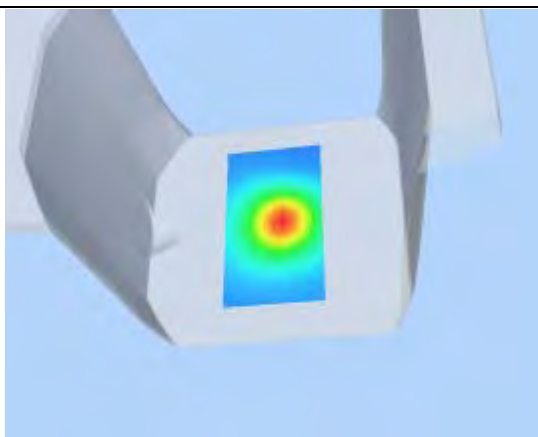
Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	0.0642	0.0329	0.0169	0.0083	0.0033	0.0007

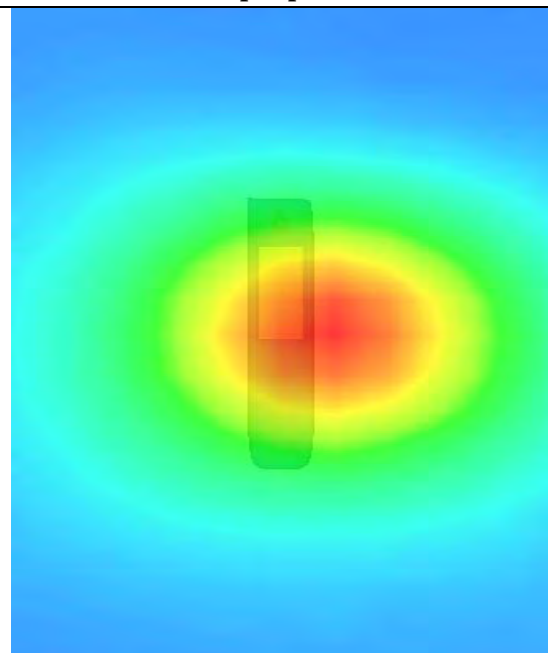
SAR, Z Axis Scan (X = 15, Y = 55)



3D scene shot



Hot spot position



MEASUREMENT 55

Type: Phone measurement (Complete)

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

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

Date of measurement: 12/10/2011

Measurement duration: 9 minutes 9 seconds

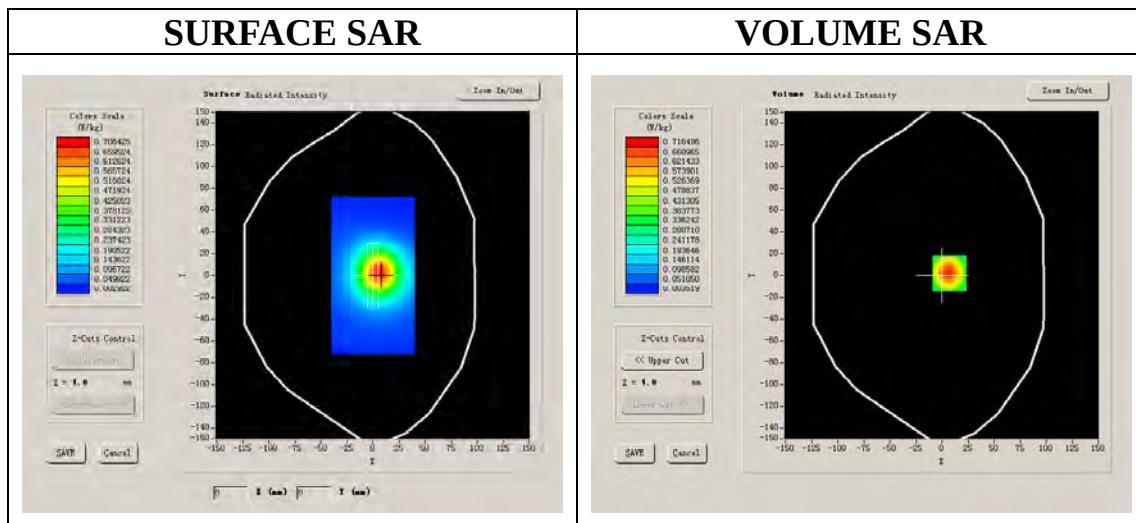
A. Experimental conditions.

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

B. SAR Measurement Results

Higher Band SAR (Channel 810):

Frequency (MHz)	1909.800049
Relative permittivity (real part)	52.540001
Relative permittivity	14.070000
Conductivity (S/m)	1.492827
Power drift (%)	-0.690000
Ambient Temperature:	22.5°C
Liquid Temperature:	22.3°C
ConvF:	40.136,34.843,38.721
Crest factor:	1:2



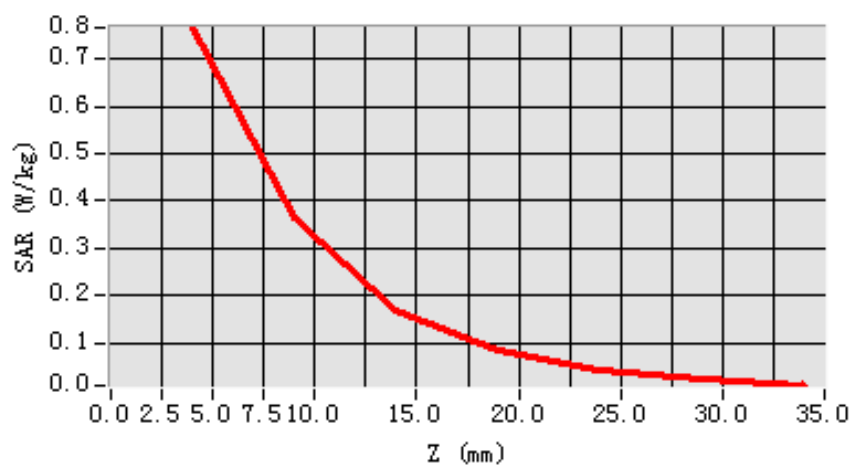
Maximum location: X=7.00, Y=2.00

SAR 10g (W/Kg)	0.365385
SAR 1g (W/Kg)	0.730280

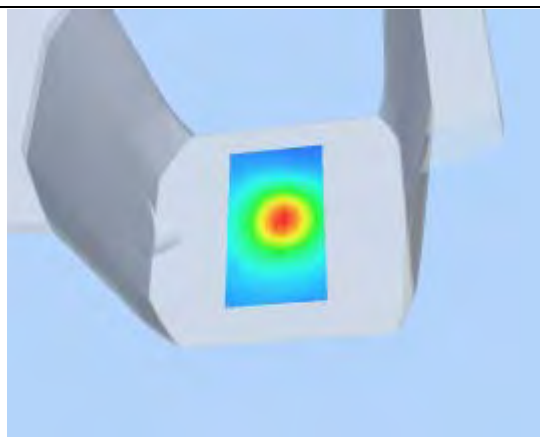
Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	0.7662	0.3630	0.1689	0.0819	0.0408	0.0212

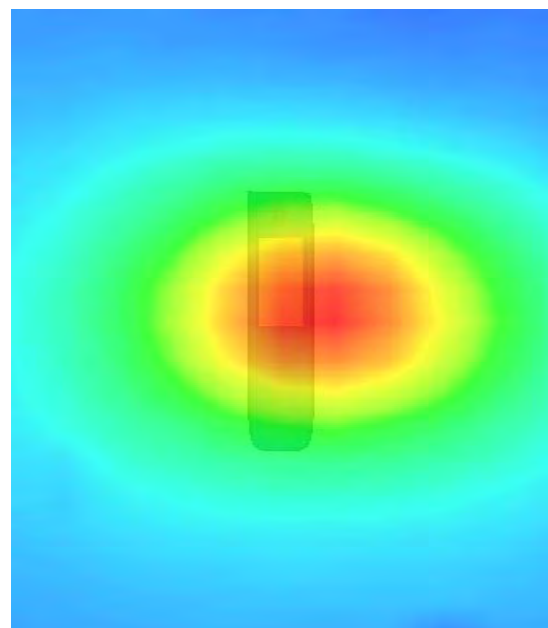
SAR, Z Axis Scan (X = 7, Y = 2)



3D sceen shot



Hot spot position



MEASUREMENT 56

Type: Phone measurement (Complete)

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

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

Date of measurement: 12/10/2011

Measurement duration: 9 minutes 10 seconds

A. Experimental conditions.

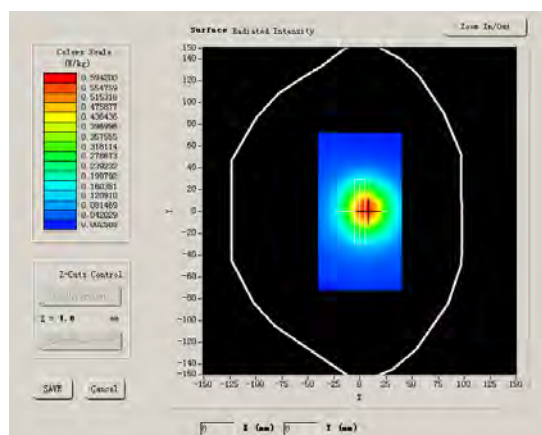
Phantom File	surf_sam_plan.txt
Phantom	Validation plane
Device Position	Body
Band	GSM1900
Channels	High
Signal	EDGE

B. SAR Measurement Results

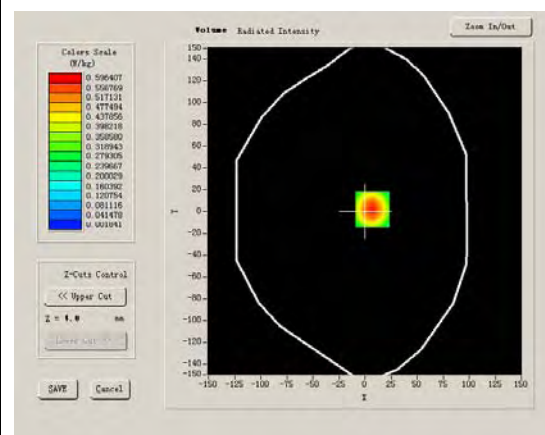
Higher Band SAR (Channel 810):

Frequency (MHz)	1909.800049
Relative permittivity (real part)	52.540001
Relative permittivity	14.070000
Conductivity (S/m)	1.492827
Power drift (%)	0.410000
Ambient Temperature:	22.5°C
Liquid Temperature:	22.3°C
ConvF:	40.136,34.843,38.721
Crest factor:	1:2

SURFACE SAR



VOLUME SAR



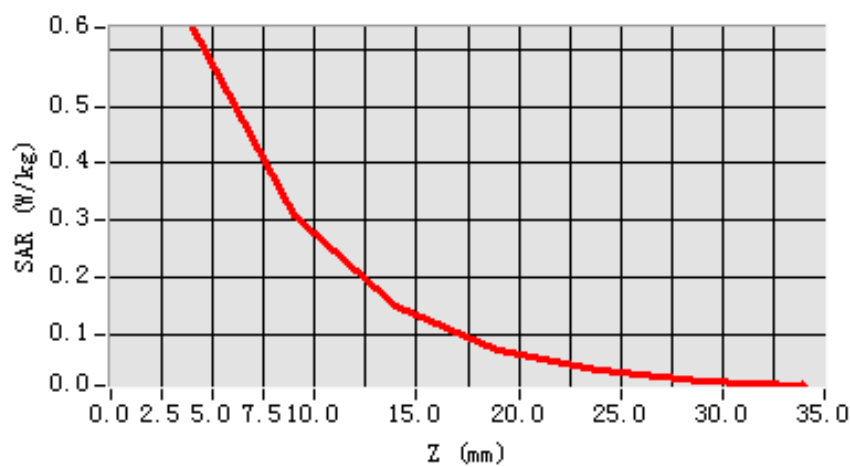
Maximum location: X=7.00, Y=2.00

SAR 10g (W/Kg)	0.312315
SAR 1g (W/Kg)	0.606914

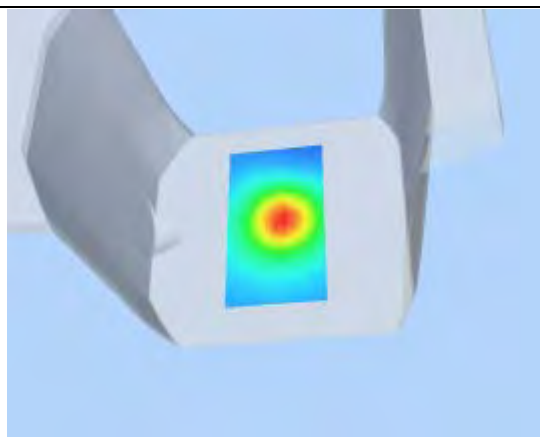
Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	0.6378	0.3094	0.1494	0.0710	0.0360	0.0175

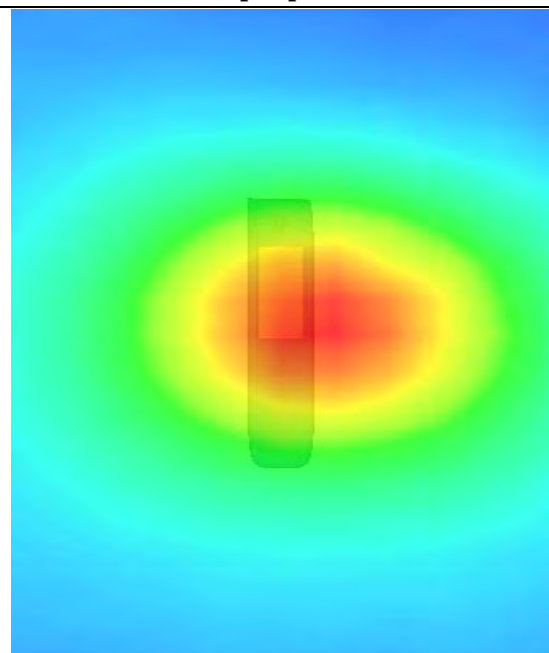
SAR, Z Axis Scan (X = 7, Y = 2)



3D scene shot



Hot spot position



MEASUREMENT 57

Type: Phone measurement (Complete)

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

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

Date of measurement: 13/10/2011

Measurement duration: 8 minutes 1 seconds

A. Experimental conditions.

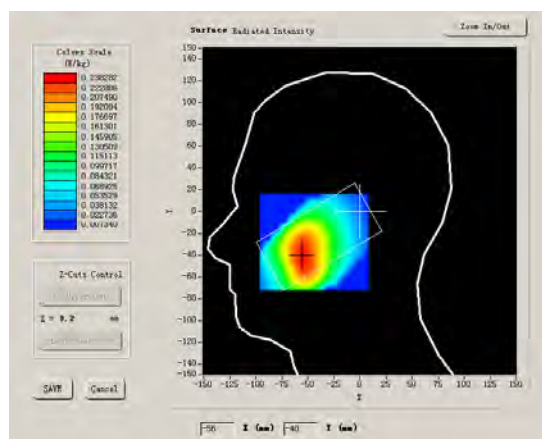
Phantom File	sam_direct_droit2_surf8mm.txt
Phantom	Right head
Device Position	Cheek
Band	WCDMA850
Channels	Low
Signal	CDMA

B. SAR Measurement Results

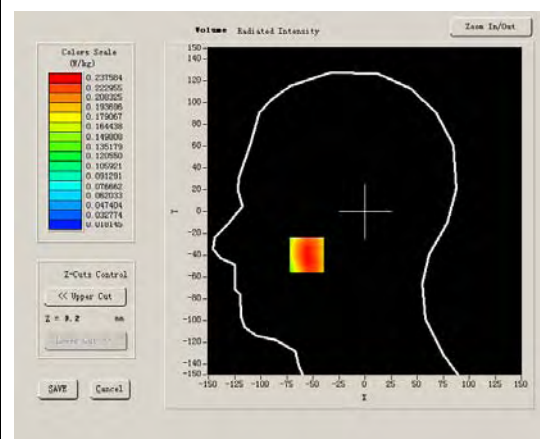
Lower Band SAR (Channel 4132):

Frequency (MHz)	826.000000
Relative permittivity (real part)	39.980000
Relative permittivity	13.170000
Conductivity (S/m)	0.604357
Power drift (%)	-0.350000
Ambient Temperature:	22.6°C
Liquid Temperature:	22.8°C
ConvF:	28.479,25.214,27.196
Crest factor:	1:1

SURFACE SAR



VOLUME SAR



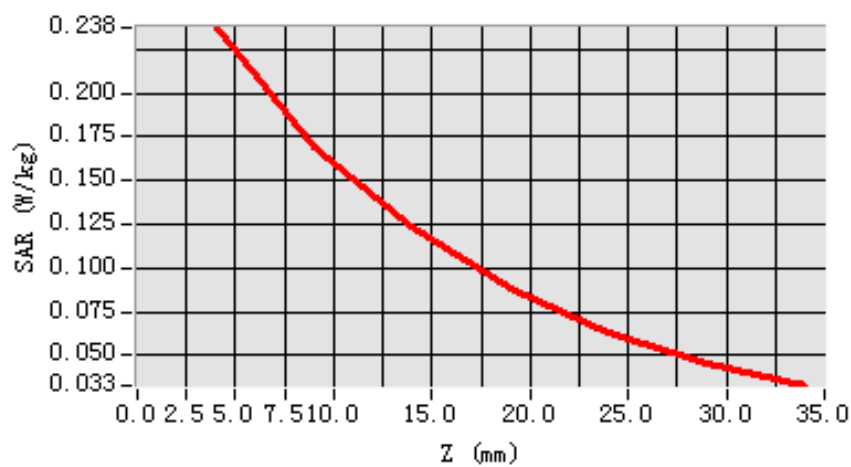
Maximum location: X=-56.00, Y=-40.00

SAR 10g (W/Kg)	0.160392
SAR 1g (W/Kg)	0.231112

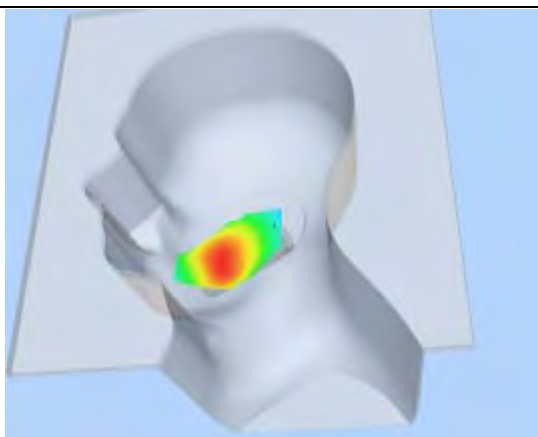
Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	0.2376	0.1690	0.1234	0.0879	0.0630	0.0451

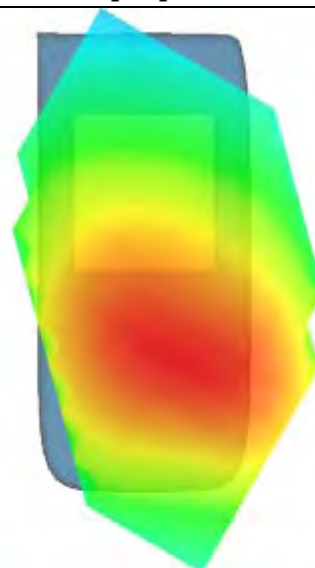
SAR, Z Axis Scan (X = -56, Y = -40)



3D sceen shot



Hot spot position



MEASUREMENT 58

Type: Phone measurement (Complete)

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

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

Date of measurement: 13/10/2011

Measurement duration: 7 minutes 59 seconds

A. Experimental conditions.

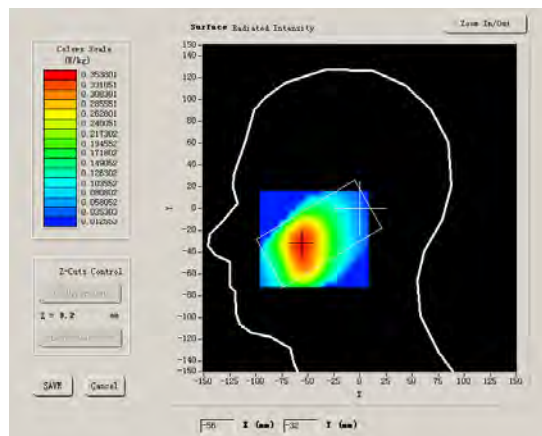
Phantom File	sam_direct_droit2_surf8mm.txt
Phantom	Right head
Device Position	Cheek
Band	WCDMA850
Channels	Middle
Signal	CDMA

B. SAR Measurement Results

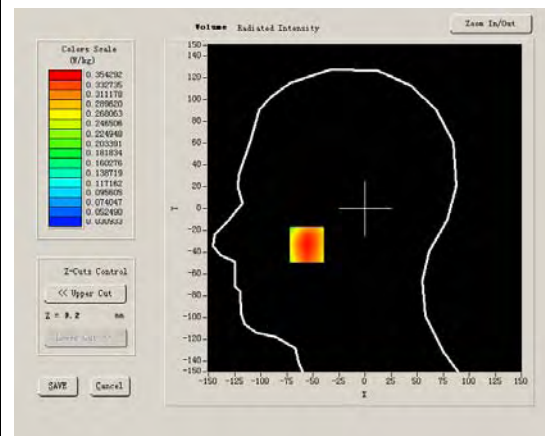
Middle Band SAR (Channel 4182):

Frequency (MHz)	836.000000
Relative permittivity (real part)	39.910000
Relative permittivity	13.230000
Conductivity (S/m)	0.614460
Power drift (%)	0.030000
Ambient Temperature:	22.4°C
Liquid Temperature:	22.1°C
ConvF:	28.479,25.214,27.196
Crest factor:	1:1

SURFACE SAR



VOLUME SAR



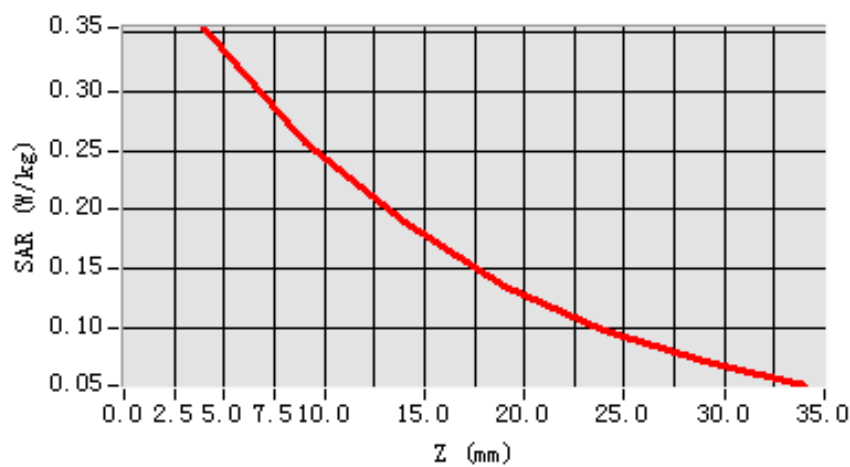
Maximum location: X=-56.00, Y=-33.00

SAR 10g (W/Kg)	0.236272
SAR 1g (W/Kg)	0.339167

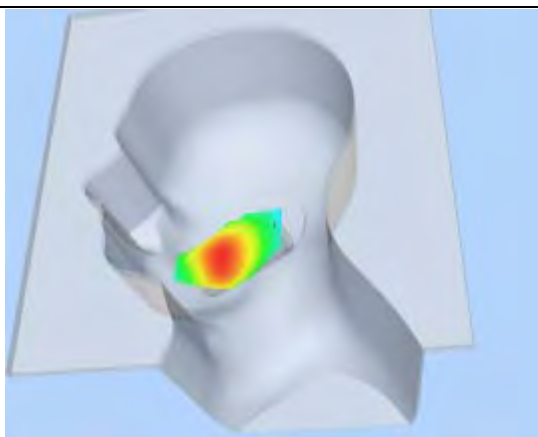
Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	0.3543	0.2575	0.1886	0.1356	0.0986	0.0707

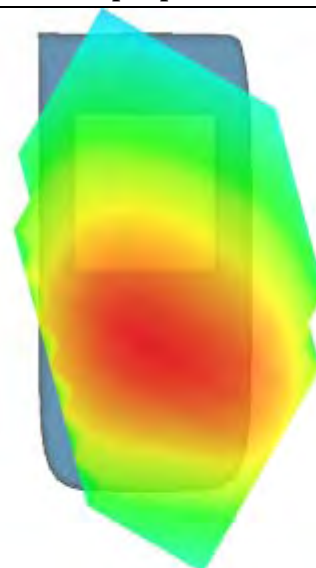
SAR, Z Axis Scan (X = -56, Y = -33)



3D sceen shot



Hot spot position



MEASUREMENT 59

Type: Phone measurement (Complete)

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

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

Date of measurement: 13/10/2011

Measurement duration: 7 minutes 58 seconds

A. Experimental conditions.

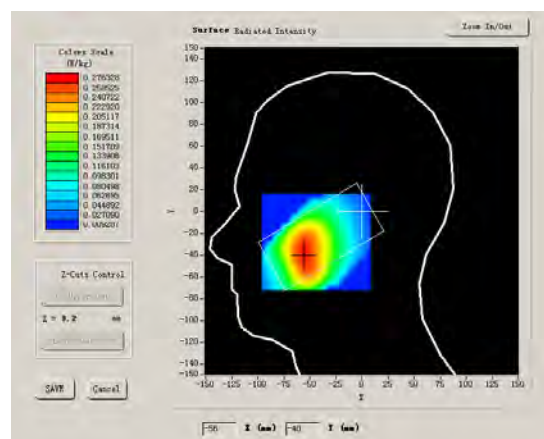
Phantom File	sam_direct_droit2_surf8mm.txt
Phantom	Right head
Device Position	Cheek
Band	WCDMA850
Channels	High
Signal	CDMA

B. SAR Measurement Results

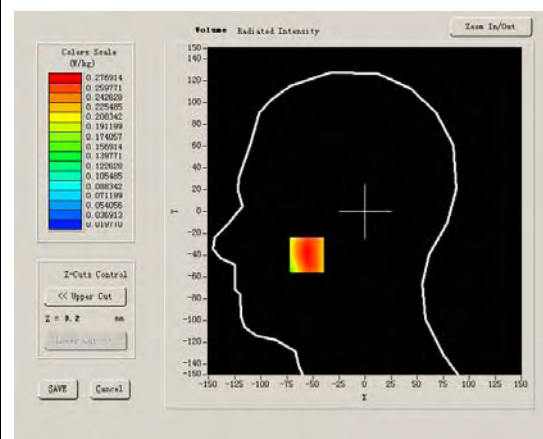
Higher Band SAR (Channel 4233):

Frequency (MHz)	846.000000
Relative permittivity (real part)	39.799999
Relative permittivity	13.380000
Conductivity (S/m)	0.628860
Power drift (%)	-0.140000
Ambient Temperature:	22.4°C
Liquid Temperature:	22.1°C
ConvF:	28.479,25.214,27.196
Crest factor:	1:1

SURFACE SAR



VOLUME SAR



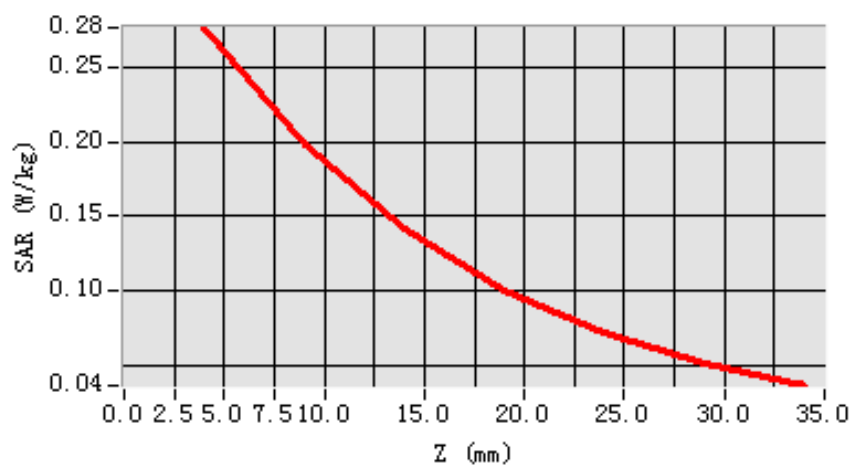
Maximum location: X=-56.00, Y=-40.00

SAR 10g (W/Kg)	0.185780
SAR 1g (W/Kg)	0.268279

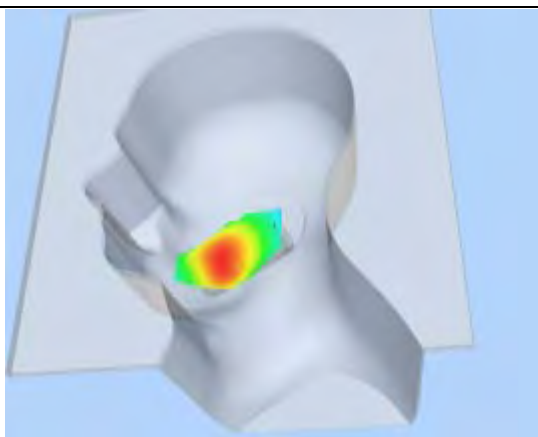
Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	0.2769	0.1975	0.1411	0.0996	0.0718	0.0509

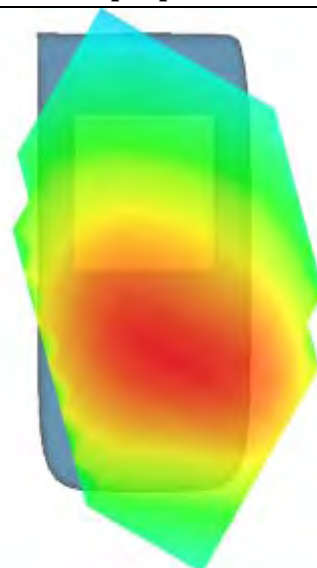
SAR, Z Axis Scan (X = -56, Y = -40)



3D sceen shot



Hot spot position



MEASUREMENT 60

Type: Phone measurement (Complete)

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

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

Date of measurement: 13/10/2011

Measurement duration: 7 minutes 37 seconds

A. Experimental conditions.

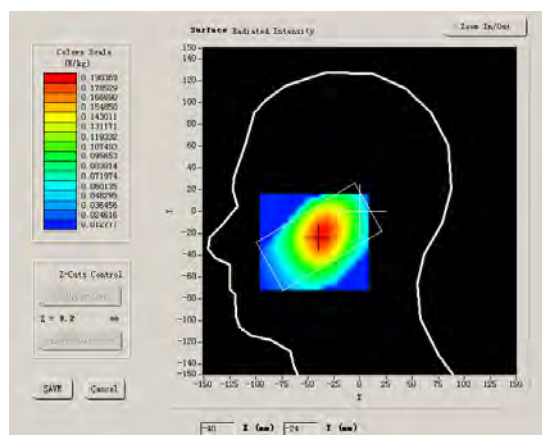
Phantom File	sam_direct_droit2_surf8mm.txt
Phantom	Right head
Device Position	Tilt
Band	WCDMA850
Channels	Low
Signal	CDMA

B. SAR Measurement Results

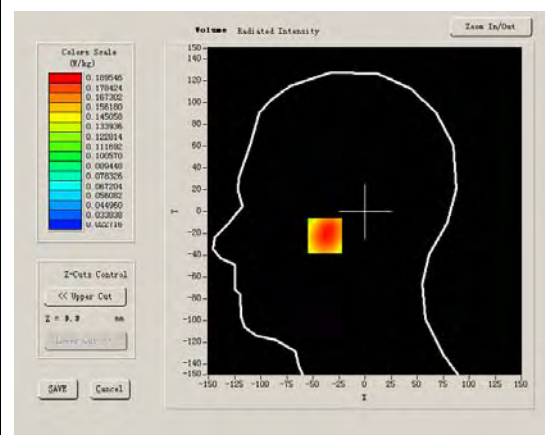
Lower Band SAR (Channel 4132):

Frequency (MHz)	826.000000
Relative permittivity (real part)	39.980000
Relative permittivity	13.170000
Conductivity (S/m)	0.604357
Power drift (%)	-0.470000
Ambient Temperature:	22.4°C
Liquid Temperature:	22.1°C
ConvF:	28.479,25.214,27.196
Crest factor:	1:1

SURFACE SAR



VOLUME SAR



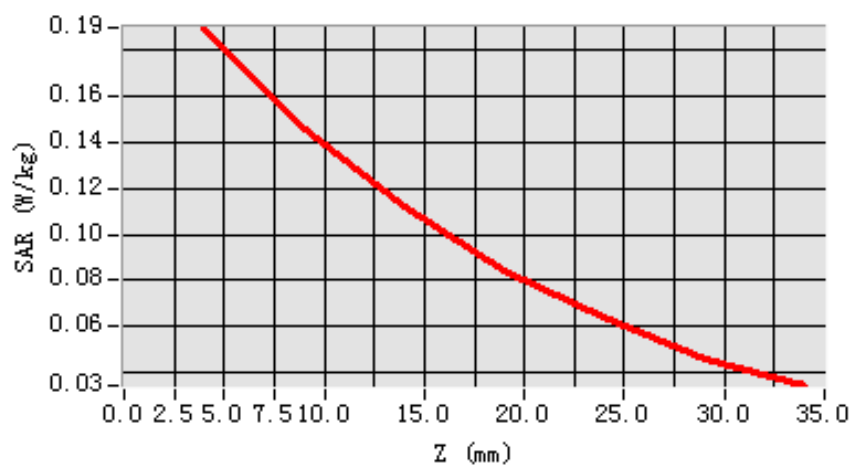
Maximum location: X=-38.00, Y=-22.00

SAR 10g (W/Kg)	0.133193
SAR 1g (W/Kg)	0.183669

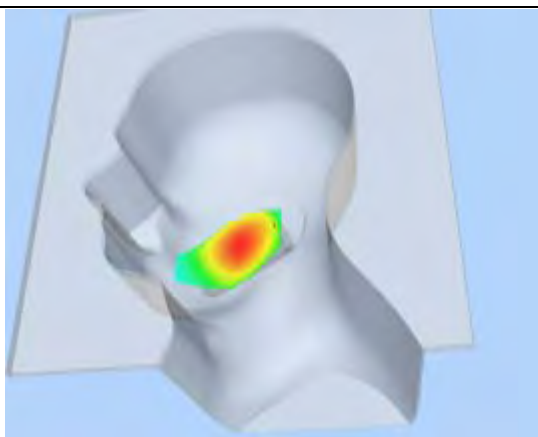
Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	0.1895	0.1457	0.1119	0.0846	0.0638	0.0457

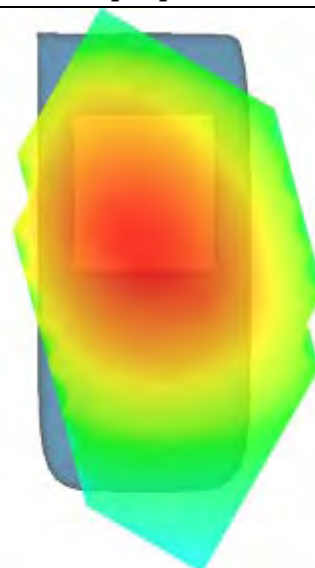
SAR, Z Axis Scan (X = -38, Y = -22)



3D sceen shot



Hot spot position



MEASUREMENT 61

Type: Phone measurement (Complete)

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

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

Date of measurement: 13/10/2011

Measurement duration: 7 minutes 30 seconds

A. Experimental conditions.

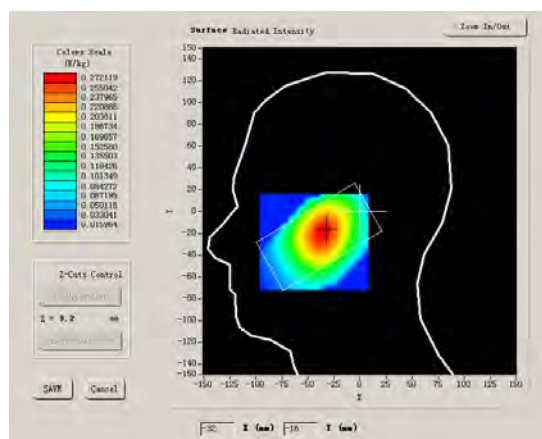
Phantom File	sam_direct_droit2_surf8mm.txt
Phantom	Right head
Device Position	Tilt
Band	WCDMA850
Channels	Middle
Signal	CDMA

B. SAR Measurement Results

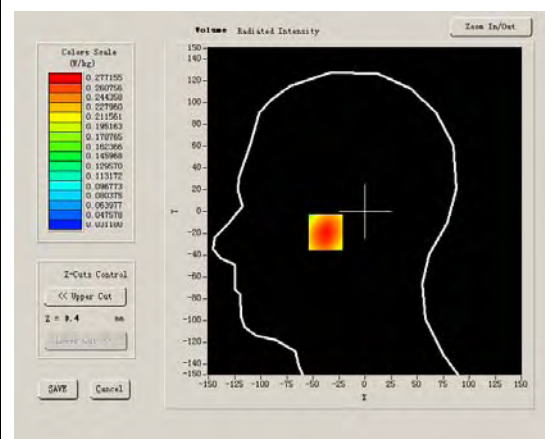
Middle Band SAR (Channel 4182):

Frequency (MHz)	836.000000
Relative permittivity (real part)	39.910000
Relative permittivity	13.230000
Conductivity (S/m)	0.614460
Power drift (%)	-0.200000
Ambient Temperature:	22.4°C
Liquid Temperature:	22.1°C
ConvF:	28.479,25.214,27.196
Crest factor:	1:1

SURFACE SAR



VOLUME SAR



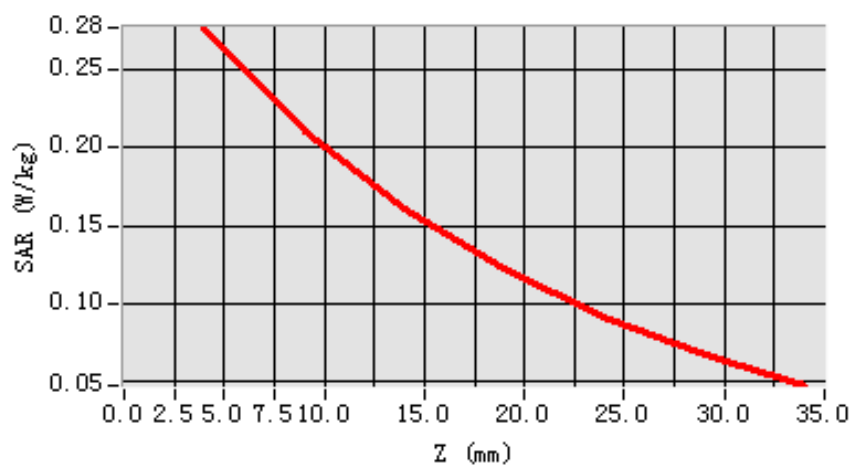
Maximum location: X=-36.00, Y=-19.00

SAR 10g (W/Kg)	0.192900
SAR 1g (W/Kg)	0.267037

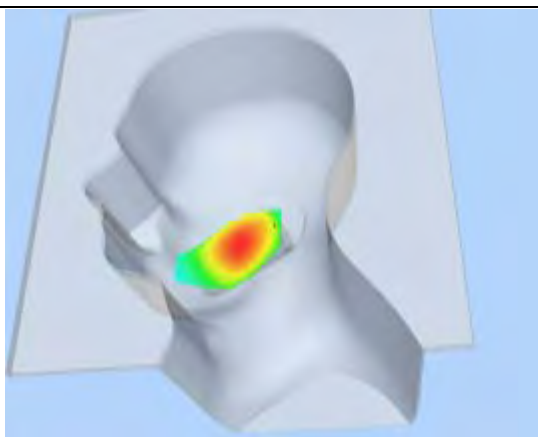
Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	0.2772	0.2099	0.1616	0.1226	0.0910	0.0670

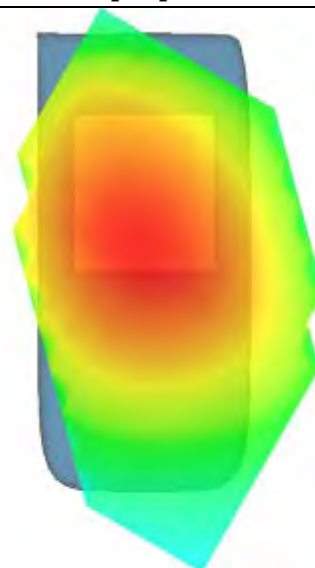
SAR, Z Axis Scan (X = -36, Y = -19)



3D sceen shot



Hot spot position



MEASUREMENT 62

Type: Phone measurement (Complete)

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

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

Date of measurement: 13/10/2011

Measurement duration: 7 minutes 31 seconds

A. Experimental conditions.

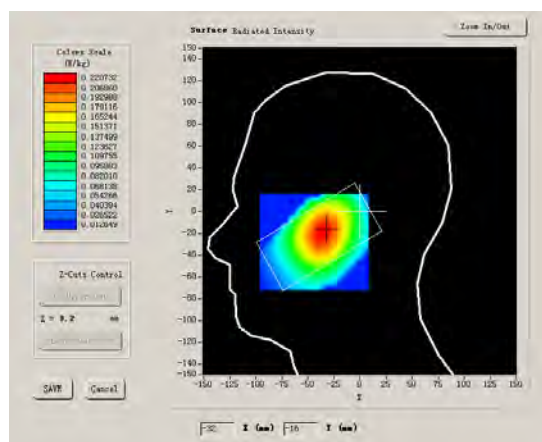
Phantom File	sam_direct_droit2_surf8mm.txt
Phantom	Right head
Device Position	Tilt
Band	WCDMA850
Channels	High
Signal	CDMA

B. SAR Measurement Results

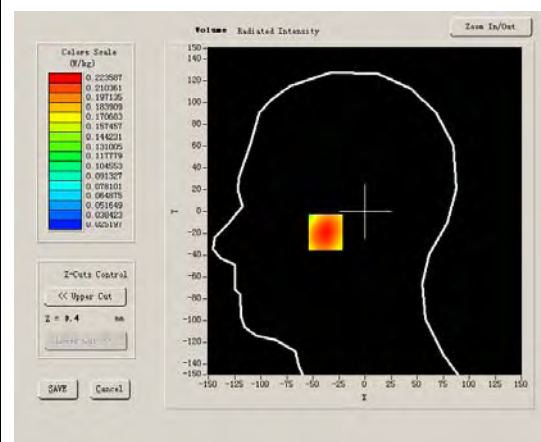
Higher Band SAR (Channel 4233):

Frequency (MHz)	846.000000
Relative permittivity (real part)	39.799999
Relative permittivity	13.380000
Conductivity (S/m)	0.628860
Power drift (%)	0.870000
Ambient Temperature:	22.4°C
Liquid Temperature:	22.1°C
ConvF:	28.479,25.214,27.196
Crest factor:	1:1

SURFACE SAR



VOLUME SAR

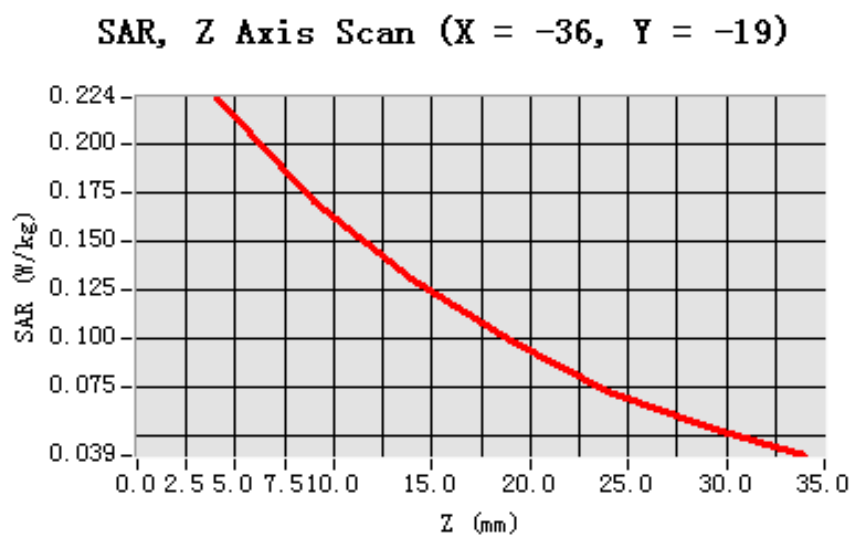


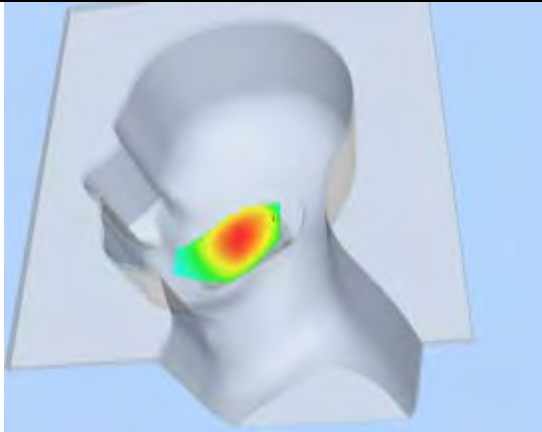
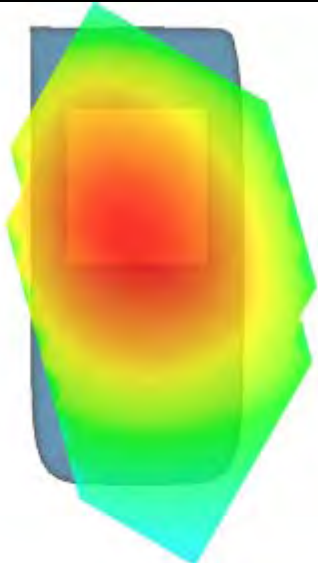
Maximum location: X=-36.00, Y=-19.00

SAR 10g (W/Kg)	0.155548
SAR 1g (W/Kg)	0.215381

Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	0.2236	0.1697	0.1302	0.0985	0.0728	0.0537



3D scene shot	Hot spot position
	

MEASUREMENT 63

Type: Phone measurement (Complete)

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

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

Date of measurement: 13/10/2011

Measurement duration: 8 minutes 0 seconds

A. Experimental conditions.

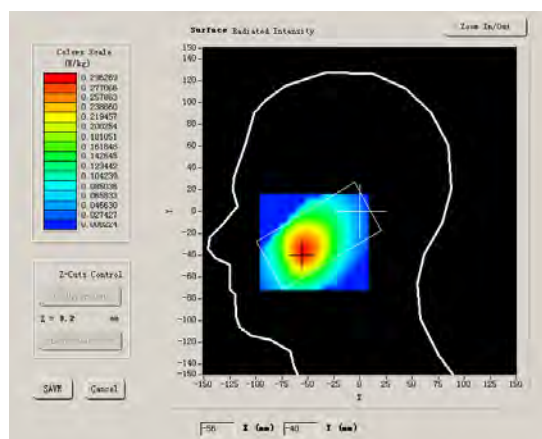
Phantom File	sam_direct_droit2_surf8mm.txt
Phantom	Left head
Device Position	Cheek
Band	WCDMA850
Channels	Low
Signal	CDMA

B. SAR Measurement Results

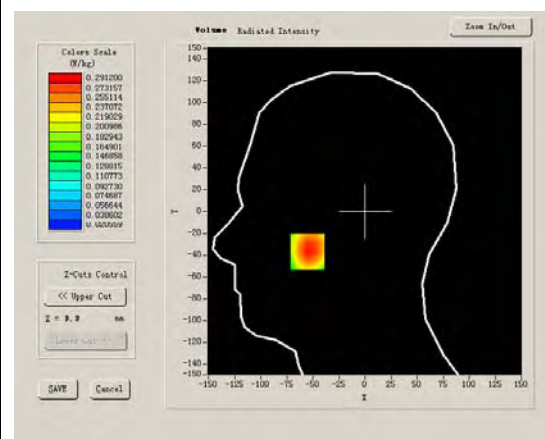
Lower Band SAR (Channel 4132):

Frequency (MHz)	826.000000
Relative permittivity (real part)	39.980000
Relative permittivity	13.170000
Conductivity (S/m)	0.604357
Power drift (%)	-1.300000
Ambient Temperature:	22.6°C
Liquid Temperature:	22.8°C
ConvF:	28.479,25.214,27.196
Crest factor:	1:1

SURFACE SAR



VOLUME SAR



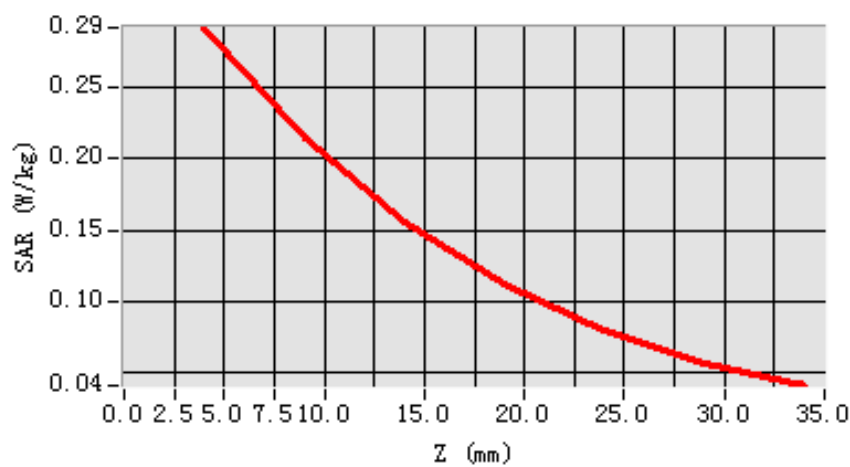
Maximum location: X=-55.00, Y=-37.00

SAR 10g (W/Kg)	0.193116
SAR 1g (W/Kg)	0.279153

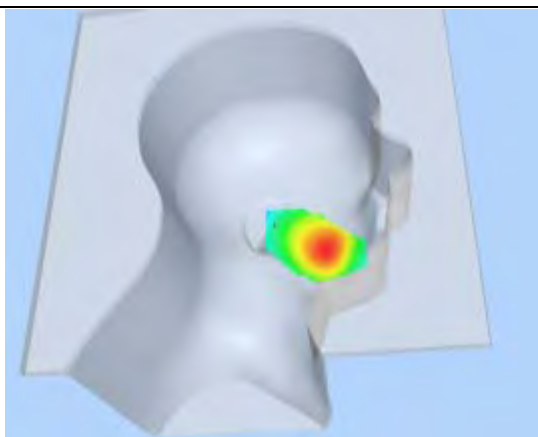
Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	0.2912	0.2143	0.1555	0.1124	0.0806	0.0574

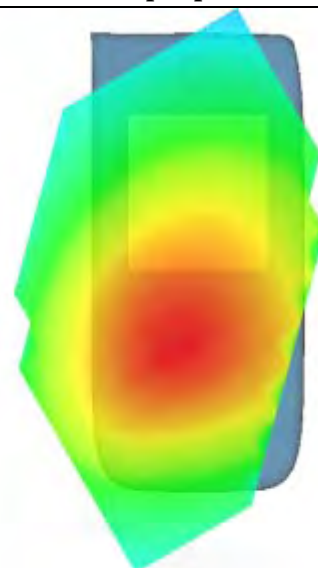
SAR, Z Axis Scan (X = -55, Y = -37)



3D scene shot



Hot spot position



MEASUREMENT 64

Type: Phone measurement (Complete)

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

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

Date of measurement: 13/10/2011

Measurement duration: 7 minutes 31 seconds.

A. Experimental conditions.

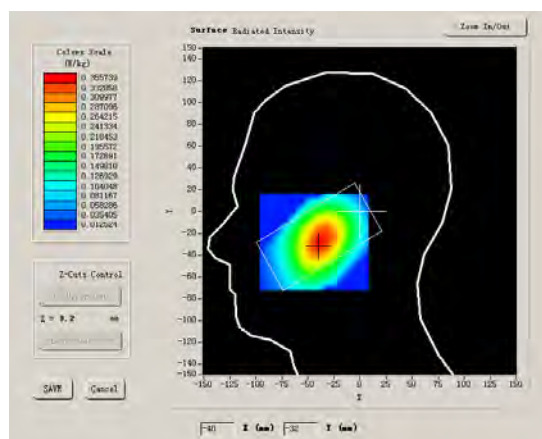
Phantom File	sam_direct_droit2_surf8mm.txt
Phantom	Left head
Device Position	Cheek
Band	WCDMA
Channels	Middle
Signal	CDMA

B. SAR Measurement Results

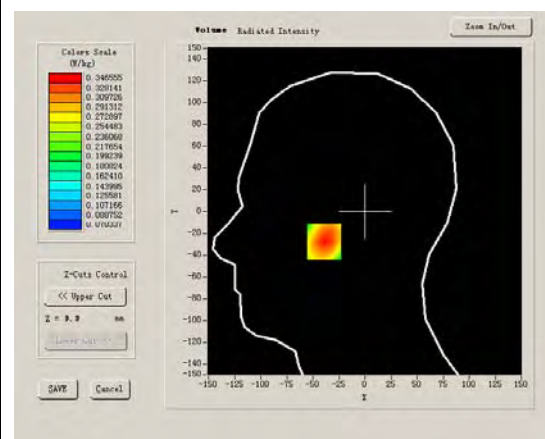
Middle Band SAR (Channel 4182):

Frequency (MHz)	836.000000
Relative permittivity (real part)	39.910000
Relative permittivity	13.230000
Conductivity (S/m)	0.614460
Power drift (%)	0.740000
Ambient Temperature:	22.6°C
Liquid Temperature:	22.8°C
ConvF:	28.479,25.214,27.196
Crest factor:	1:1

SURFACE SAR



VOLUME SAR



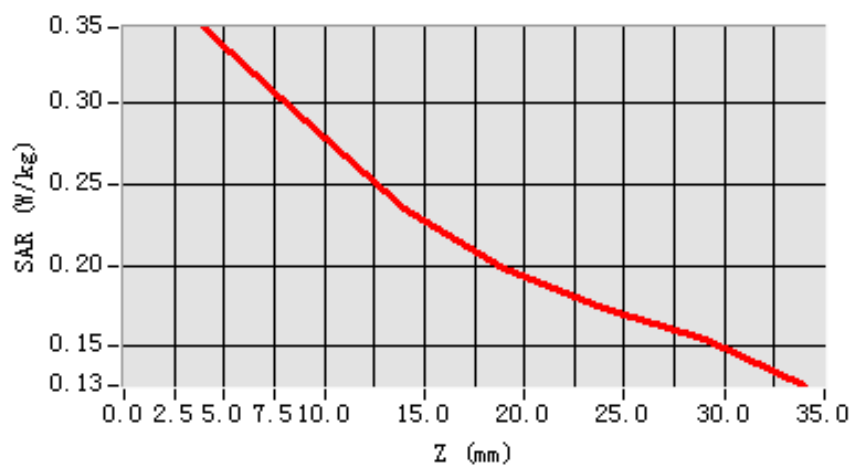
Maximum location: X=-38.00, Y=-28.00

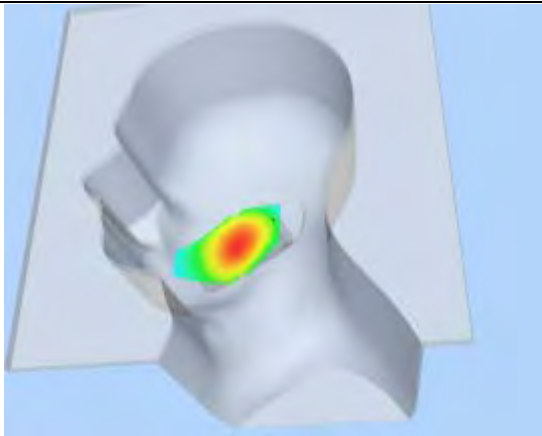
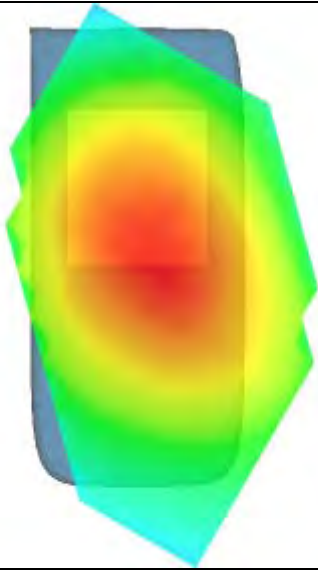
SAR 10g (W/Kg)	0.257461
SAR 1g (W/Kg)	0.332883

Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	0.3466	0.2895	0.2350	0.1977	0.1736	0.1553

SAR, Z Axis Scan (X = -38, Y = -28)



3D sceen shot	Hot spot position
	

MEASUREMENT 65

Type: Phone measurement (Complete)

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

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

Date of measurement: 13/10/2011

Measurement duration: 7 minutes 59 seconds

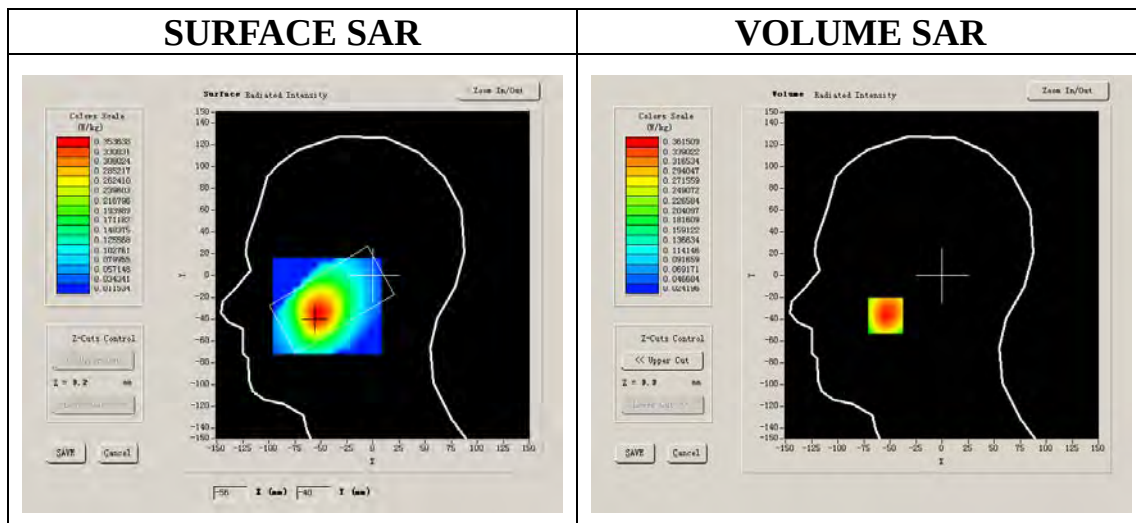
A. Experimental conditions.

Phantom File	sam_direct_droit2_surf8mm.txt
Phantom	Left head
Device Position	Cheek
Band	WCDMA850
Channels	High
Signal	CDMA

B. SAR Measurement Results

Higher Band SAR (Channel 4233):

Frequency (MHz)	846.000000
Relative permittivity (real part)	39.799999
Relative permittivity	13.380000
Conductivity (S/m)	0.628860
Power drift (%)	-0.400000
Ambient Temperature:	22.6°C
Liquid Temperature:	22.8°C
ConvF:	28.479,25.214,27.196
Crest factor:	1:1

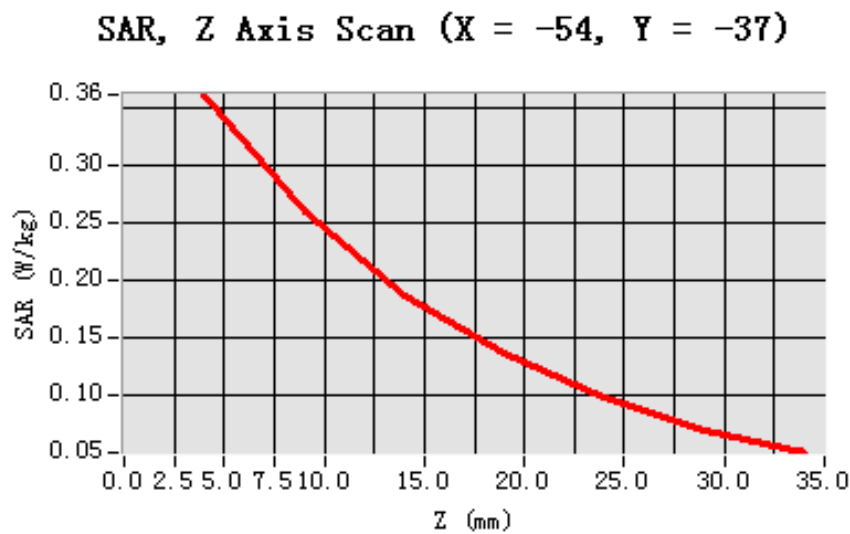


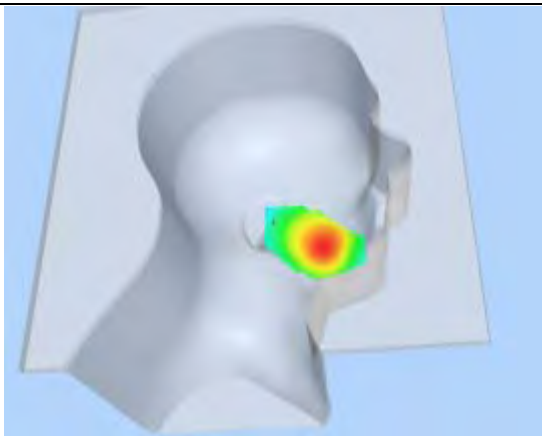
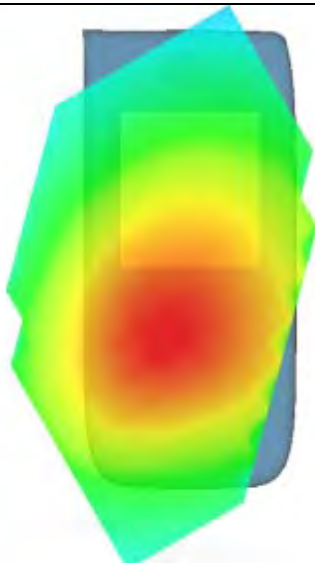
Maximum location: X=-54.00, Y=-37.00

SAR 10g (W/Kg)	0.235968
SAR 1g (W/Kg)	0.346062

Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	0.3615	0.2596	0.1865	0.1350	0.0975	0.0692



3D sceen shot	Hot spot position
	

MEASUREMENT 66

Type: Phone measurement (Complete)

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

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

Date of measurement: 13/10/2011

Measurement duration: 7 minutes 32 seconds

A. Experimental conditions.

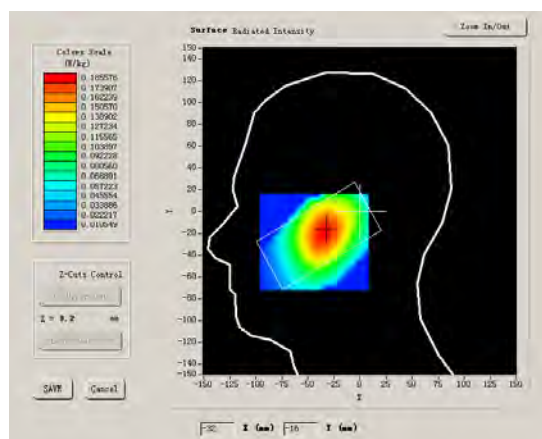
Phantom File	sam_direct_droit2_surf8mm.txt
Phantom	Left head
Device Position	Tilt
Band	WCDMA850
Channels	Low
Signal	CDMA

B. SAR Measurement Results

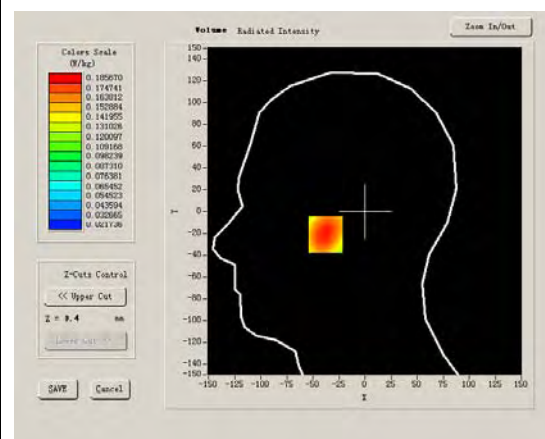
Lower Band SAR (Channel 4132):

Frequency (MHz)	826.000000
Relative permittivity (real part)	39.980000
Relative permittivity	13.170000
Conductivity (S/m)	0.604357
Power drift (%)	-0.420000
Ambient Temperature:	22.6°C
Liquid Temperature:	22.8°C
ConvF:	28.479,25.214,27.196
Crest factor:	1:1

SURFACE SAR



VOLUME SAR



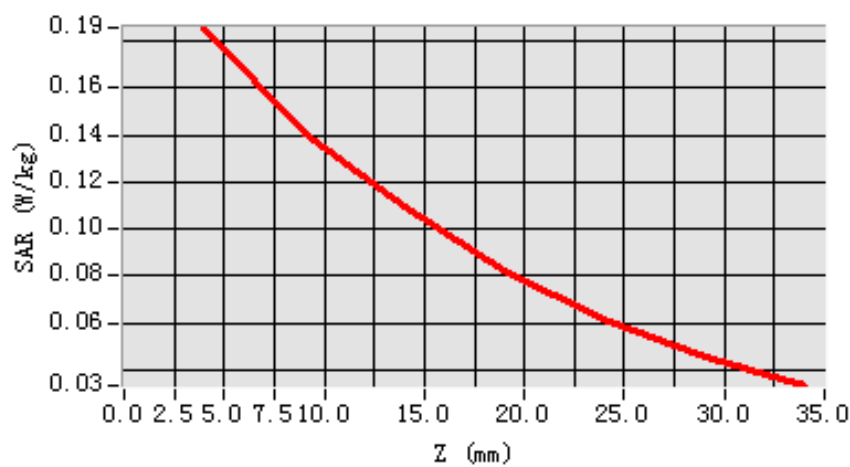
Maximum location: X=-34.00, Y=-21.00

SAR 10g (W/Kg)	0.130522
SAR 1g (W/Kg)	0.179522

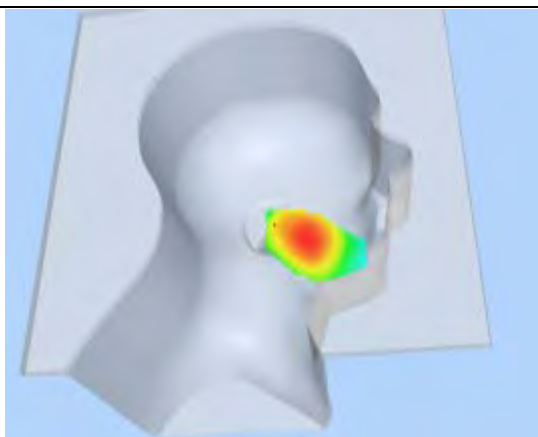
Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	0.1857	0.1404	0.1091	0.0826	0.0619	0.0456

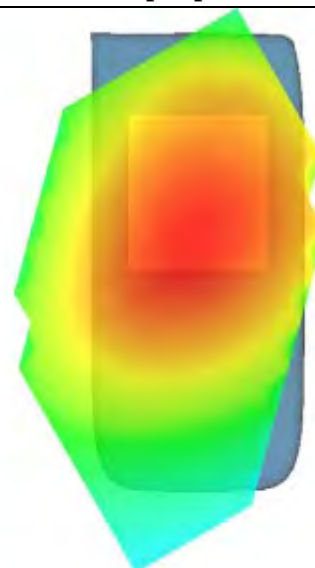
SAR, Z Axis Scan (X = -34, Y = -21)



3D sceen shot



Hot spot position



MEASUREMENT 67

Type: Phone measurement (Complete)

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

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

Date of measurement: 13/10/2011

Measurement duration: 7 minutes 31 seconds.

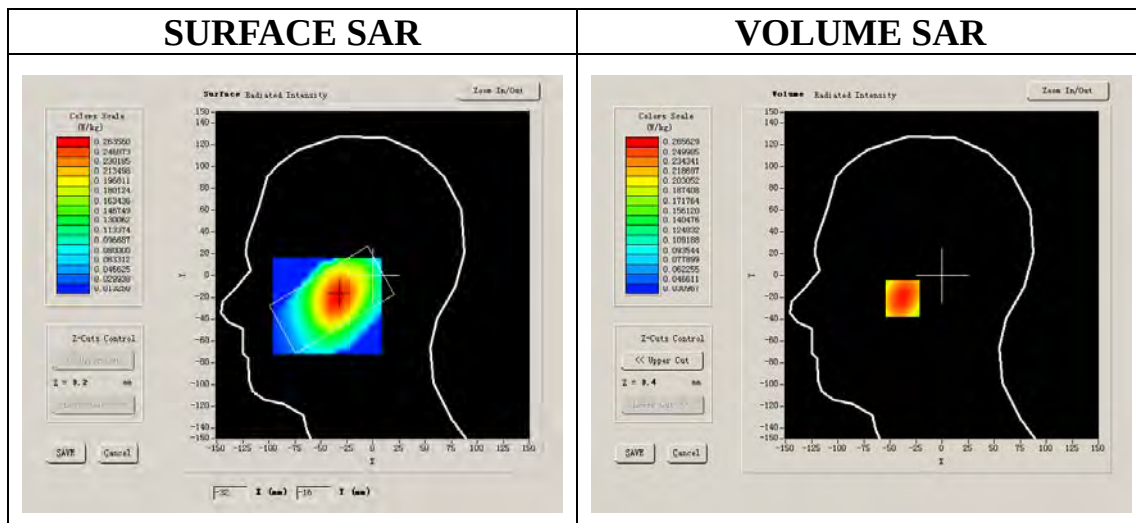
A. Experimental conditions.

Phantom File	sam_direct_droit2_surf8mm.txt
Phantom	Left head
Device Position	Tilt
Band	WCDMA850
Channels	Middle
Signal	CDMA

B. SAR Measurement Results

Middle Band SAR (Channel 4182):

Frequency (MHz)	836.000000
Relative permittivity (real part)	39.910000
Relative permittivity	13.230000
Conductivity (S/m)	0.614460
Power drift (%)	0.740000
Ambient Temperature:	22.6°C
Liquid Temperature:	22.8°C
ConvF:	28.479,25.214,27.196
Crest factor:	1:1



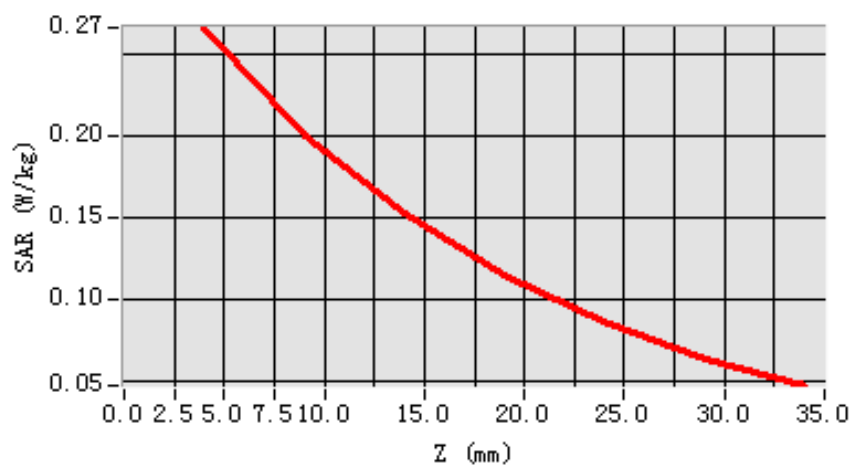
Maximum location: X=-34.00, Y=-21.00

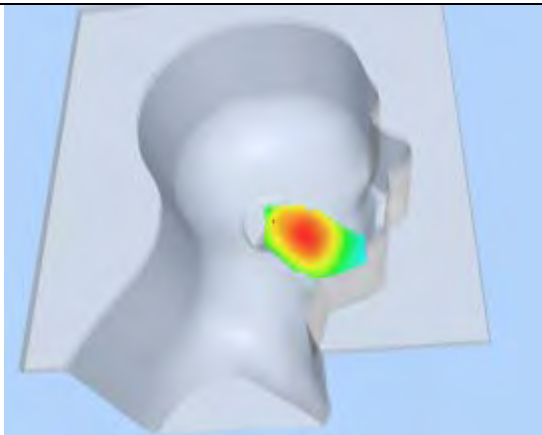
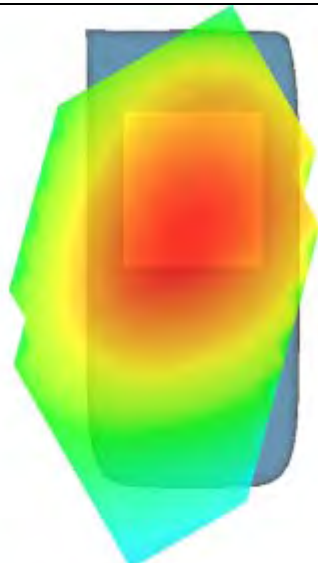
SAR 10g (W/Kg)	0.172427
SAR 1g (W/Kg)	0.261603

Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	0.2656	0.1993	0.1526	0.1154	0.0864	0.0640

SAR, Z Axis Scan (X = -34, Y = -21)



3D scene shot	Hot spot position
	

MEASUREMENT 68

Type: Phone measurement (Complete)

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

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

Date of measurement: 13/10/2011

Measurement duration: 7 minutes 34 seconds

A. Experimental conditions.

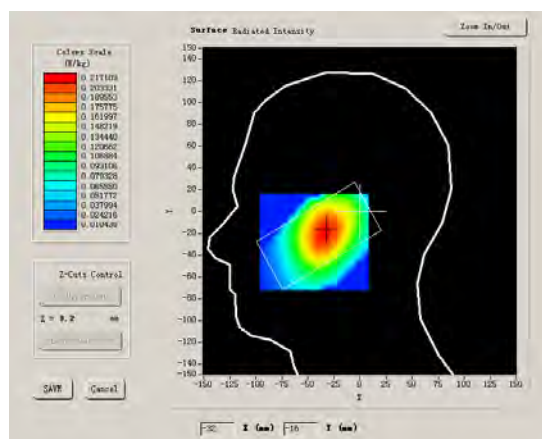
Phantom File	sam_direct_droit2_surf8mm.txt
Phantom	Left head
Device Position	Tilt
Band	WCDMA850
Channels	High
Signal	CDMA

B. SAR Measurement Results

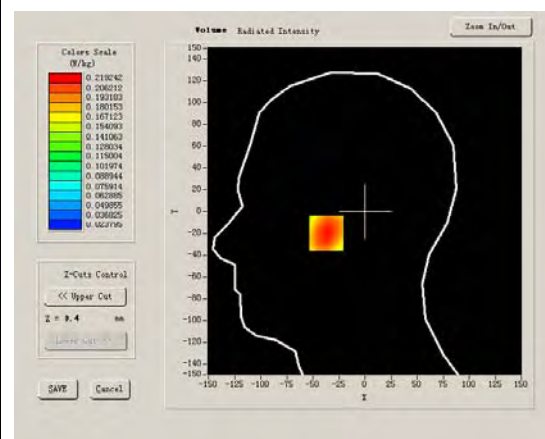
Higher Band SAR (Channel 4233):

Frequency (MHz)	846.000000
Relative permittivity (real part)	39.799999
Relative permittivity	13.380000
Conductivity (S/m)	0.628860
Power drift (%)	0.750000
Ambient Temperature:	22.6°C
Liquid Temperature:	22.8°C
ConvF:	28.479,25.214,27.196
Crest factor:	1:1

SURFACE SAR



VOLUME SAR



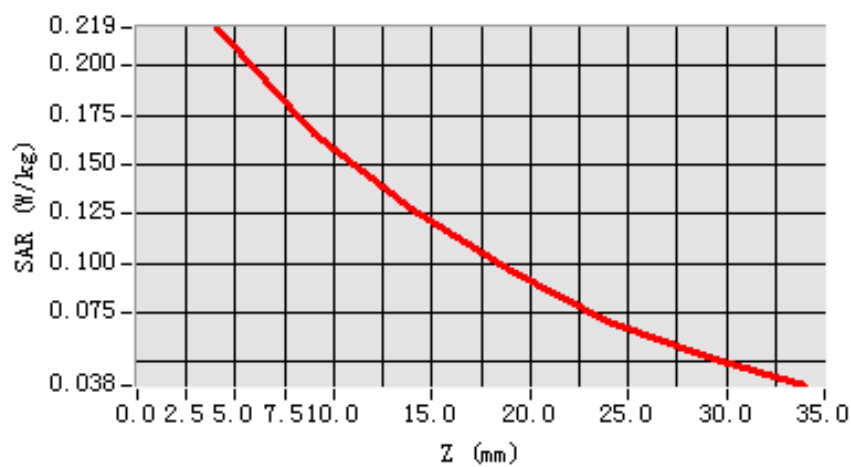
Maximum location: X=-34.00, Y=-20.00

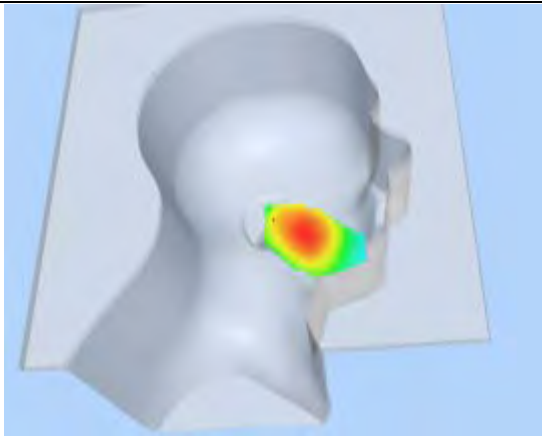
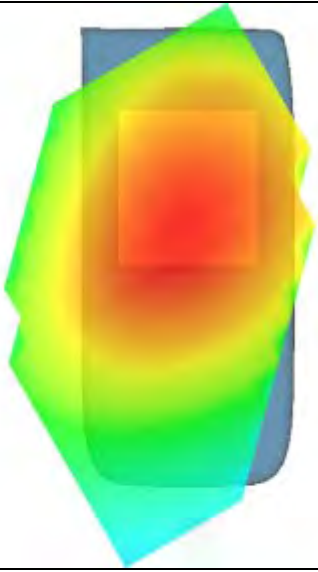
SAR 10g (W/Kg)	0.152681
SAR 1g (W/Kg)	0.211360

Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	0.2192	0.1654	0.1273	0.0967	0.0708	0.0531

SAR, Z Axis Scan (X = -34, Y = -20)



3D sceen shot	Hot spot position
	

MEASUREMENT 69

Type: Phone measurement (Complete)

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

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

Date of measurement: 13/10/2011

Measurement duration: 9 minutes 15 seconds

A. Experimental conditions.

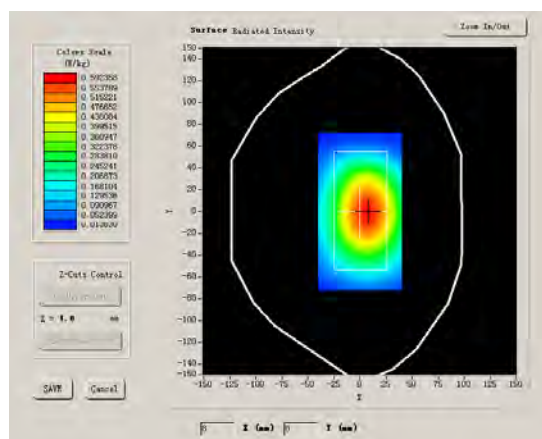
Phantom File	surf_sam_plan.txt
Phantom	Validation plane
Device Position	Body
Band	WCDMA850
Channels	High
Signal	CDMA

B. SAR Measurement Results

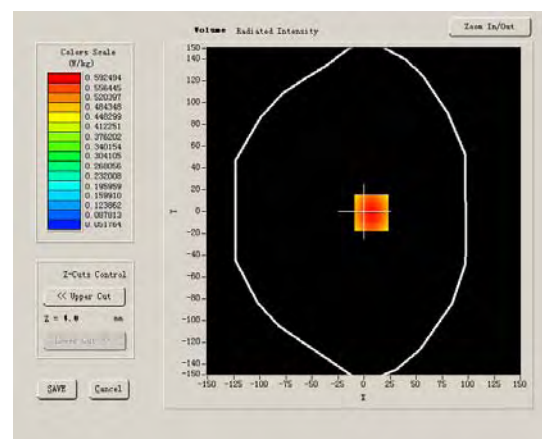
Higher Band SAR (Channel 4233):

Frequency (MHz)	846.000000
Relative permittivity (real part)	51.341000
Relative permittivity	15.877050
Conductivity (S/m)	0.746221
Power drift (%)	-0.030000
Ambient Temperature:	22.6°C
Liquid Temperature:	22.8°C
ConvF:	28.479,25.214,27.196
Crest factor:	1:1

SURFACE SAR



VOLUME SAR



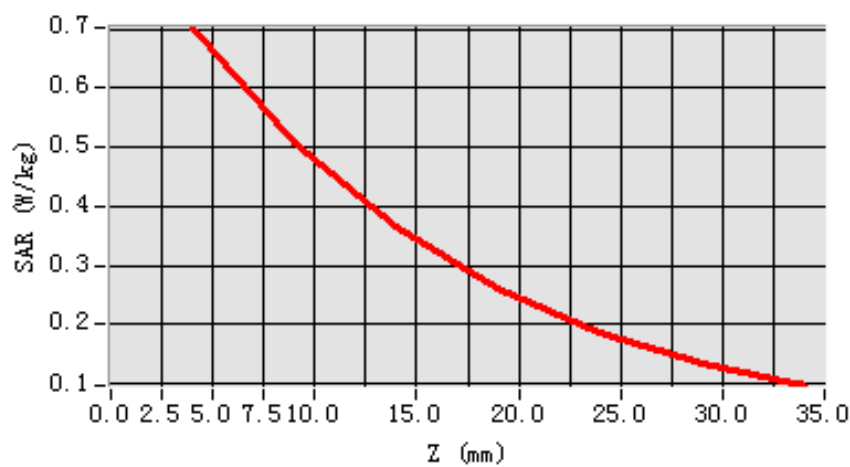
Maximum location: X=7.00, Y=-1.00

SAR 10g (W/Kg)	0.473937
SAR 1g (W/Kg)	0.677828

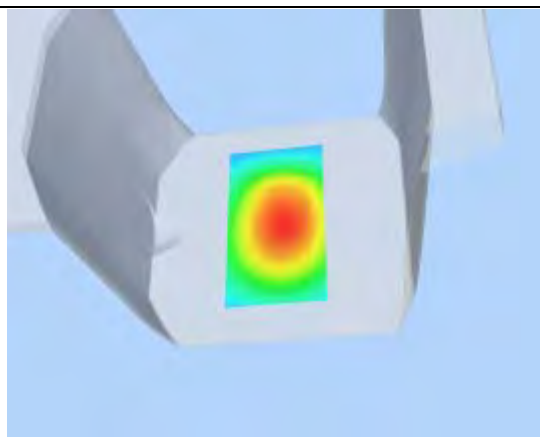
Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	0.7031	0.5068	0.3644	0.2619	0.1869	0.1347

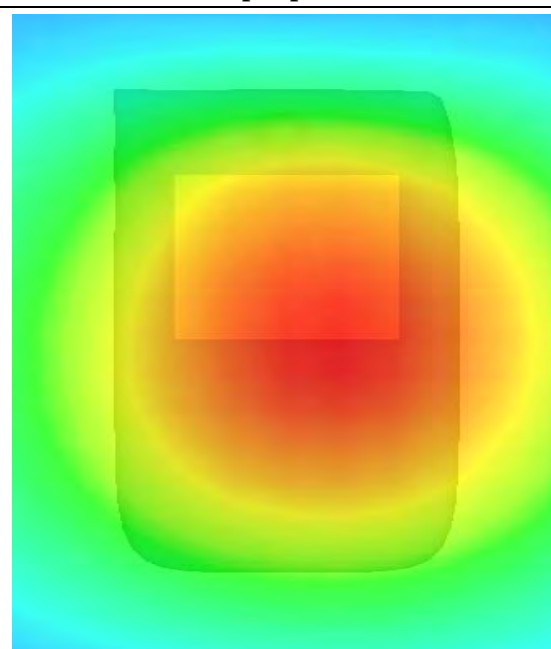
SAR, Z Axis Scan (X = 7, Y = -1)



3D sceen shot



Hot spot position



MEASUREMENT 70

Type: Phone measurement (Complete)

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

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

Date of measurement: 13/10/2011

Measurement duration: 9 minutes 13 seconds

A. Experimental conditions.

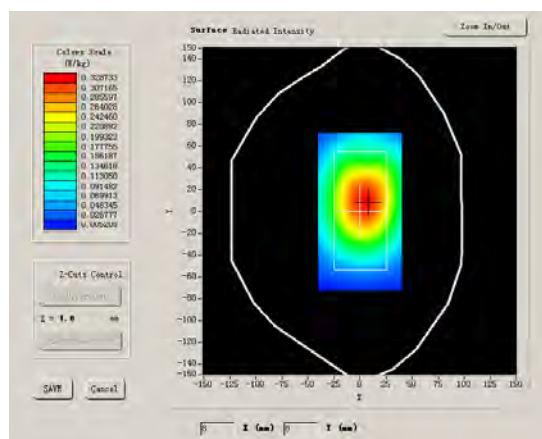
Phantom File	surf_sam_plan.txt
Phantom	Validation plane
Device Position	Body
Band	WCDMA850
Channels	High
Signal	CDMA

B. SAR Measurement Results

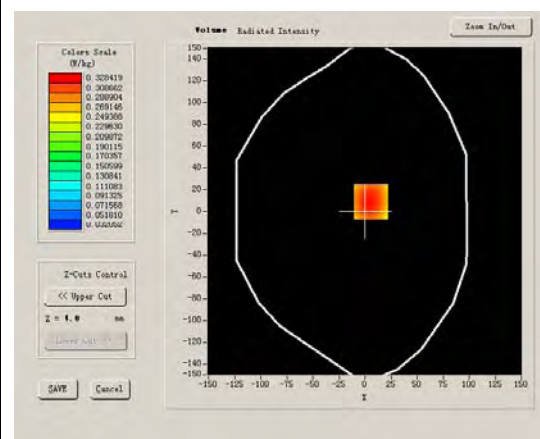
Higher Band SAR (Channel 4233):

Frequency (MHz)	846.000000
Relative permittivity (real part)	51.341000
Relative permittivity	15.877050
Conductivity (S/m)	0.746221
Power drift (%)	-0.340000
Ambient Temperature:	22.6°C
Liquid Temperature:	22.8°C
ConvF:	28.479,25.214,27.196
Crest factor:	1:1

SURFACE SAR



VOLUME SAR



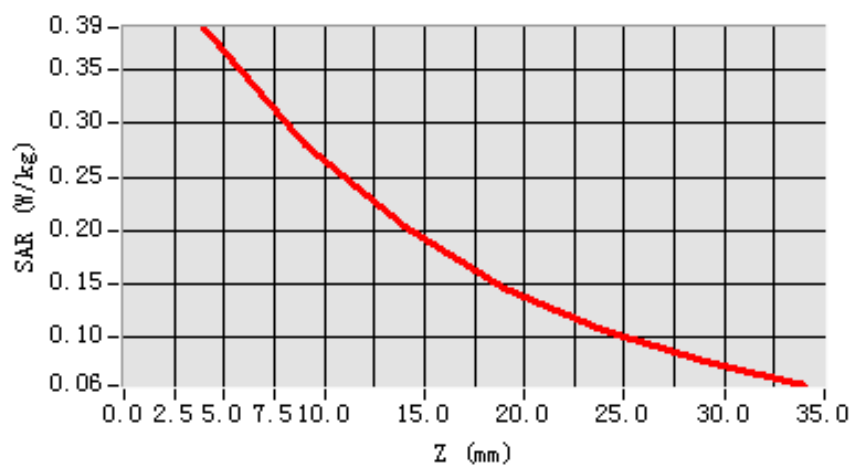
Maximum location: X=6.00, Y=9.00

SAR 10g (W/Kg)	0.263688
SAR 1g (W/Kg)	0.376196

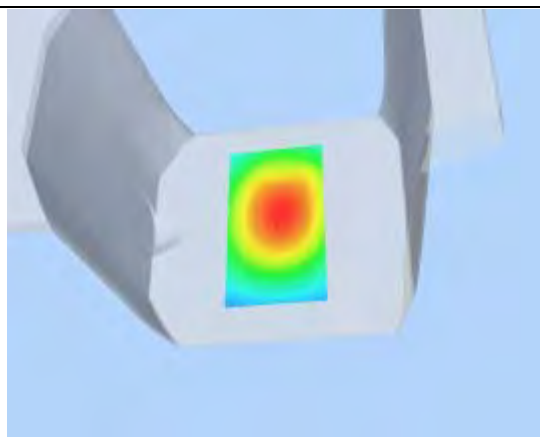
Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	0.3897	0.2811	0.2048	0.1472	0.1062	0.0774

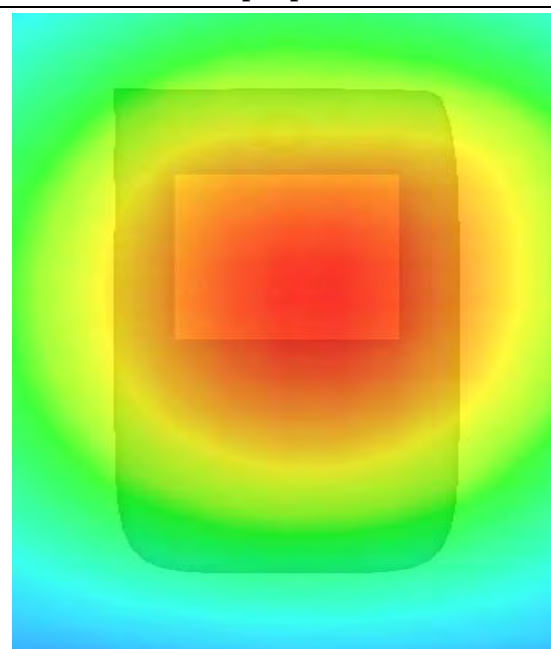
SAR, Z Axis Scan (X = 6, Y = 9)



3D sceen shot



Hot spot position



MEASUREMENT 71

Type: Phone measurement (Complete)

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

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

Date of measurement: 13/10/2011

Measurement duration: 9 minutes 9 seconds

A. Experimental conditions.

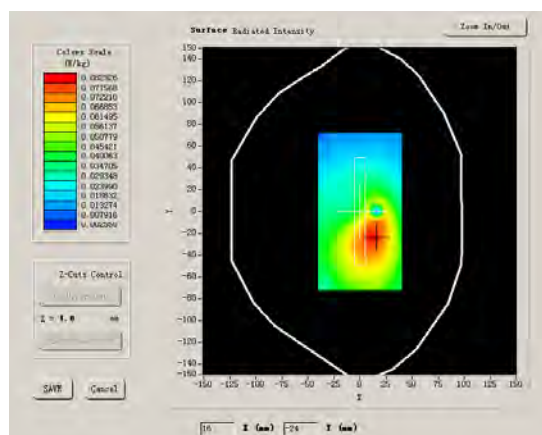
Phantom File	surf_sam_plan.txt
Phantom	Validation plane
Device Position	Body
Band	WCDMA850
Channels	High
Signal	CDMA

B. SAR Measurement Results

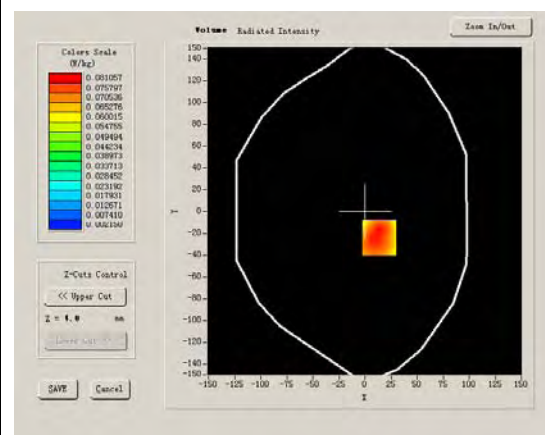
Higher Band SAR (Channel 4233):

Frequency (MHz)	846.000000
Relative permittivity (real part)	51.341000
Relative permittivity	15.877050
Conductivity (S/m)	0.746221
Power drift (%)	-3.070000
Ambient Temperature:	22.6°C
Liquid Temperature:	22.8°C
ConvF:	28.479,25.214,27.196
Crest factor:	1:1

SURFACE SAR



VOLUME SAR



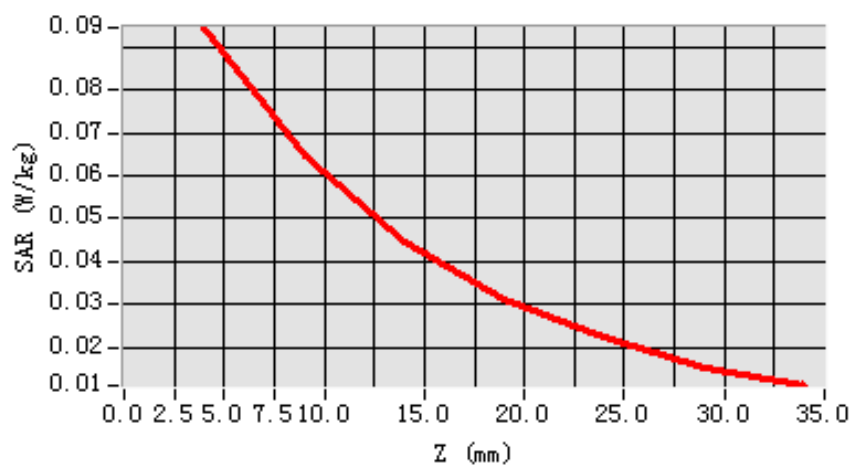
Maximum location: X=14.00, Y=-24.00

SAR 10g (W/Kg)	0.062109
SAR 1g (W/Kg)	0.092851

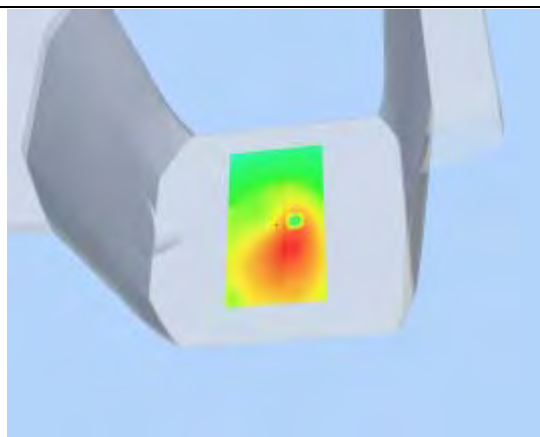
Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	0.0944	0.0648	0.0447	0.0311	0.0223	0.0154

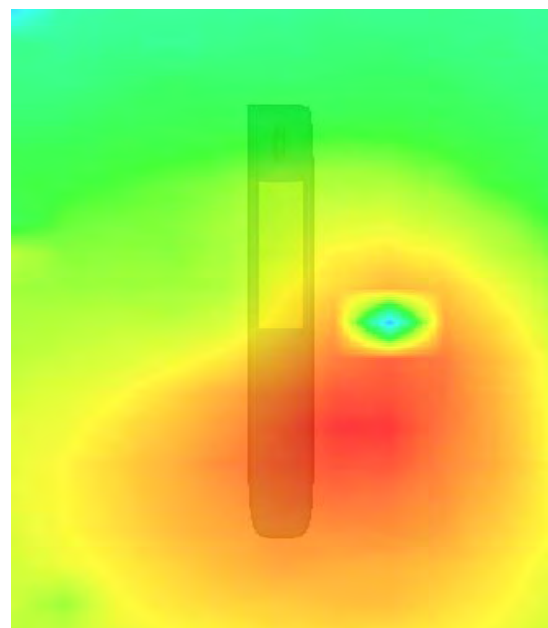
SAR, Z Axis Scan (X = 14, Y = -24)



3D scene shot



Hot spot position



MEASUREMENT 72

Type: Phone measurement (Complete)

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

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

Date of measurement: 13/10/2011

Measurement duration: 9 minutes 7 seconds

A. Experimental conditions.

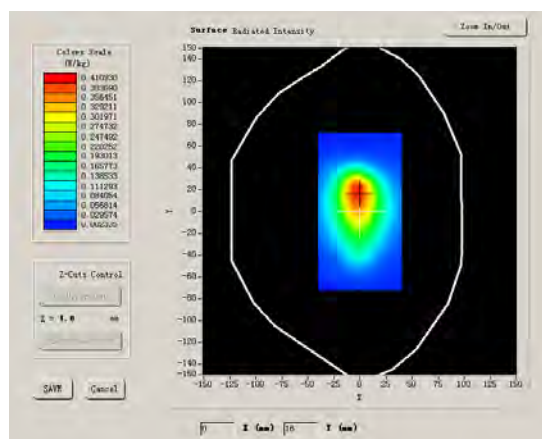
Phantom File	surf_sam_plan.txt
Phantom	Validation plane
Device Position	Body
Band	WCDMA850
Channels	High
Signal	CDMA

B. SAR Measurement Results

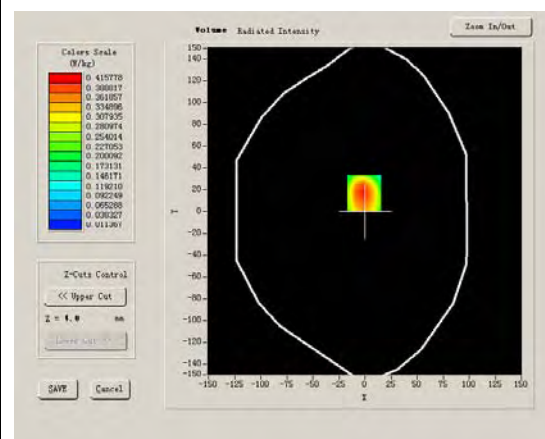
Higher Band SAR (Channel 4233):

Frequency (MHz)	846.000000
Relative permittivity (real part)	51.341000
Relative permittivity	15.877050
Conductivity (S/m)	0.746221
Power drift (%)	-1.450000
Ambient Temperature:	22.6°C
Liquid Temperature:	22.8°C
ConvF:	28.479,25.214,27.196
Crest factor:	1:1

SURFACE SAR



VOLUME SAR



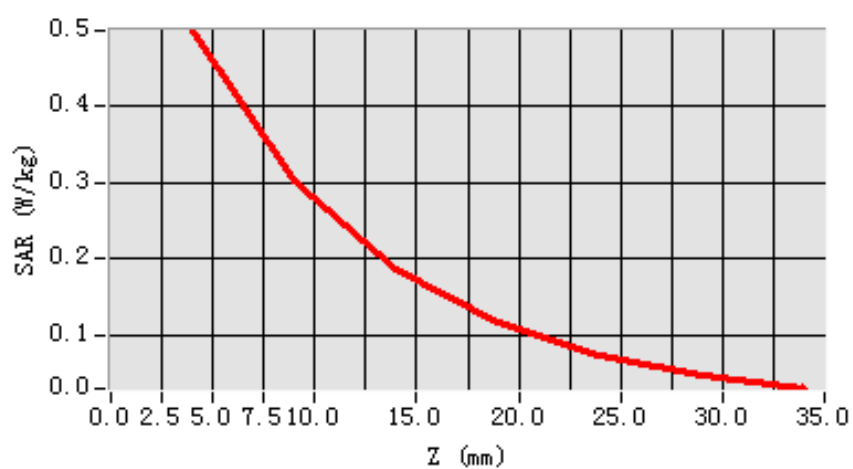
Maximum location: X=-1.00, Y=17.00

SAR 10g (W/Kg)	0.215453
SAR 1g (W/Kg)	0.424556

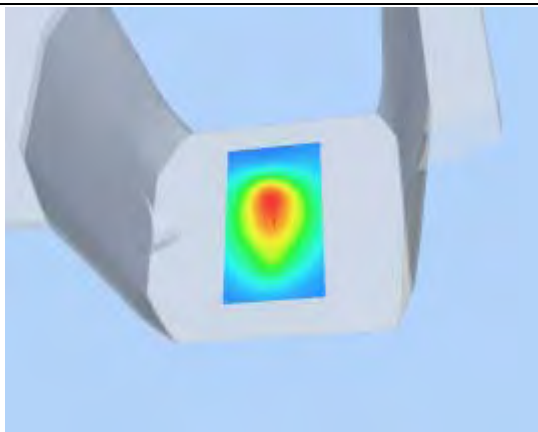
Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	0.4990	0.3033	0.1868	0.1167	0.0739	0.0466

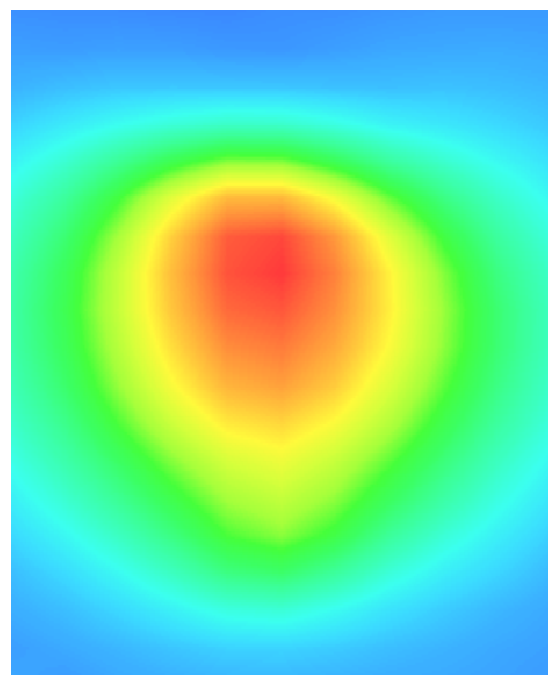
SAR, Z Axis Scan (X = -1, Y = 17)



3D scene shot



Hot spot position



MEASUREMENT 73

Type: Phone measurement (Complete)

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

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

Date of measurement: 13/10/2011

Measurement duration: 9 minutes 7 seconds

A. Experimental conditions.

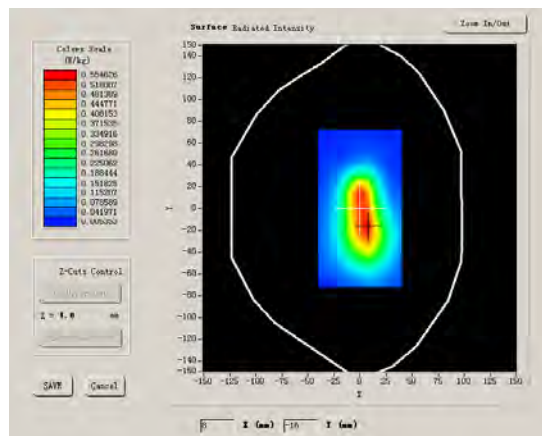
Phantom File	surf_sam_plan.txt
Phantom	Validation plane
Device Position	Body
Band	WCDMA850
Channels	High
Signal	CDMA

B. SAR Measurement Results

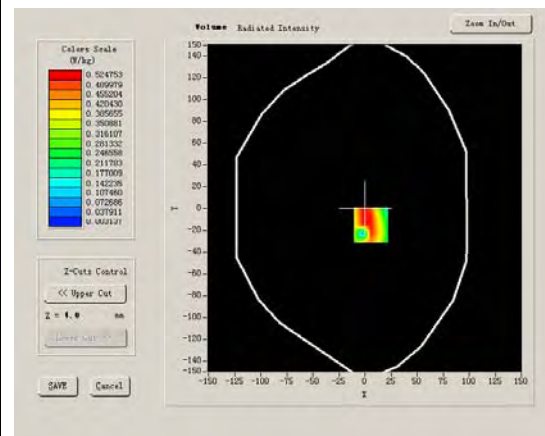
Higher Band SAR (Channel 4233):

Frequency (MHz)	846.000000
Relative permittivity (real part)	51.341000
Relative permittivity	15.877050
Conductivity (S/m)	0.746221
Power drift (%)	-1.450000
Ambient Temperature:	22.6°C
Liquid Temperature:	22.8°C
ConvF:	28.479,25.214,27.196
Crest factor:	1:1

SURFACE SAR



VOLUME SAR



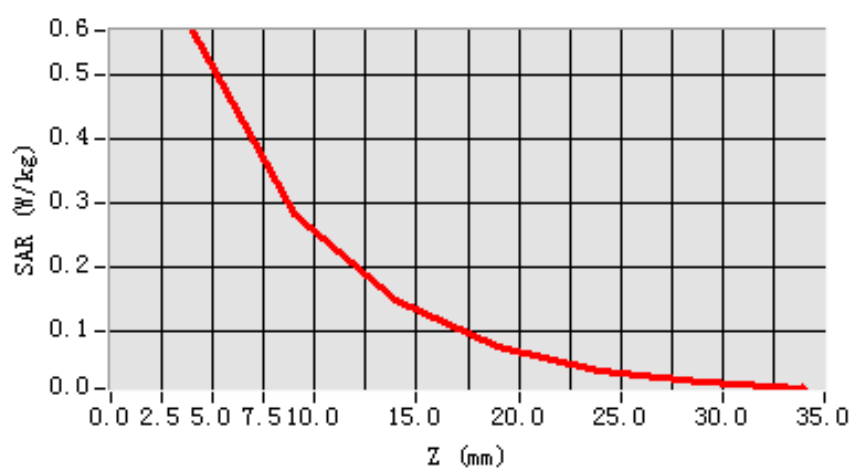
Maximum location: X=6.00, Y=-15.00

SAR 10g (W/Kg)	0.282617
SAR 1g (W/Kg)	0.582227

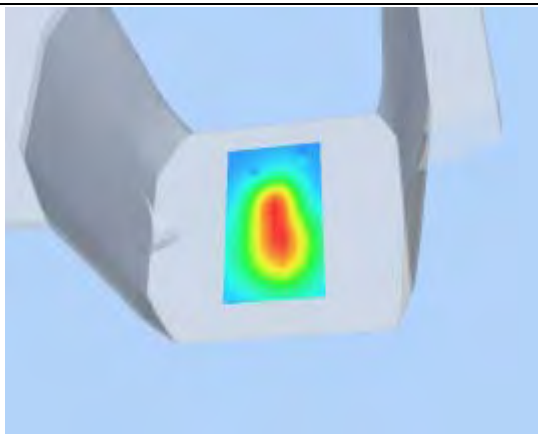
Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	0.5673	0.2836	0.1492	0.0772	0.0379	0.0205

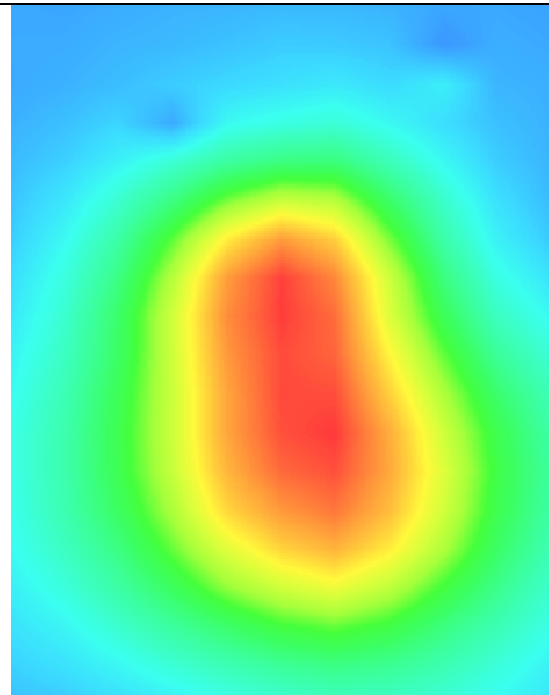
SAR, Z Axis Scan (X = 6, Y = -15)



3D scene shot



Hot spot position



MEASUREMENT 74

Type: Phone measurement (Complete)

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

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

Date of measurement: 13/10/2011

Measurement duration: 8 minutes 14 seconds

A. Experimental conditions.

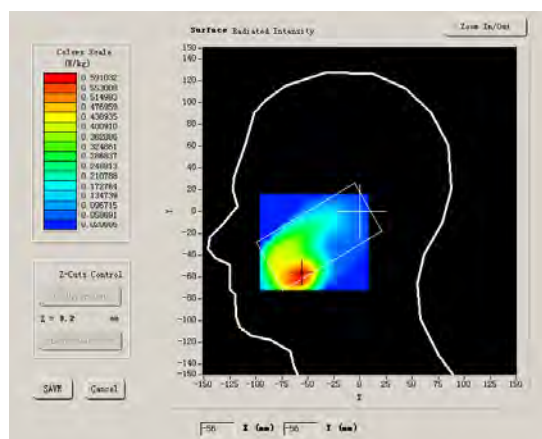
Phantom File	sam_direct_droit2_surf8mm.txt
Phantom	Right head
Device Position	Cheek
Band	WCDMA1900
Channels	Low
Signal	CDMA

B. SAR Measurement Results

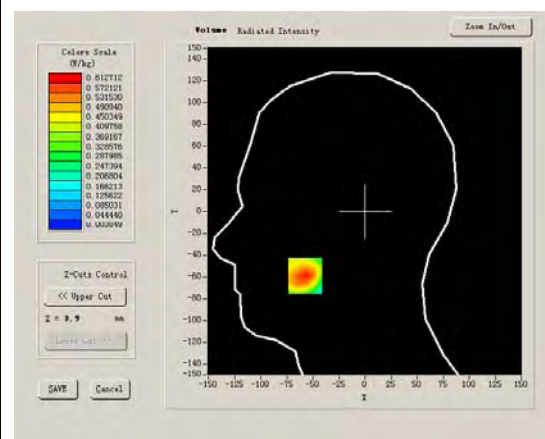
Lower Band SAR (Channel 9262):

Frequency (MHz)	1852.000000
Relative permittivity (real part)	39.980000
Relative permittivity	13.170000
Conductivity (S/m)	1.355047
Power drift (%)	-0.150000
Ambient Temperature:	22.5°C
Liquid Temperature:	22.3°C
ConvF:	40.136,34.843,38.721
Crest factor:	1:1

SURFACE SAR



VOLUME SAR



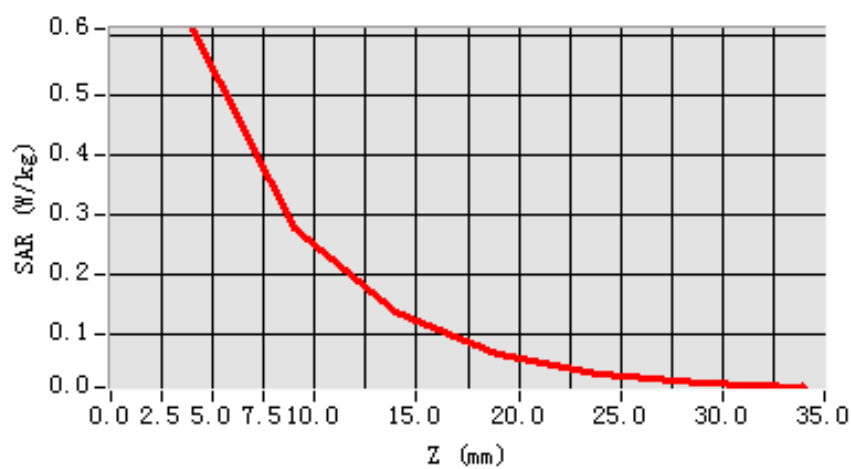
Maximum location: X=-57.00, Y=-59.00

SAR 10g (W/Kg)	0.298854
SAR 1g (W/Kg)	0.587641

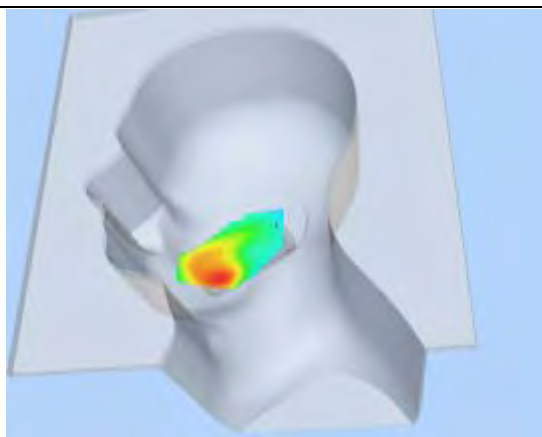
Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	0.6127	0.2775	0.1364	0.0670	0.0334	0.0174

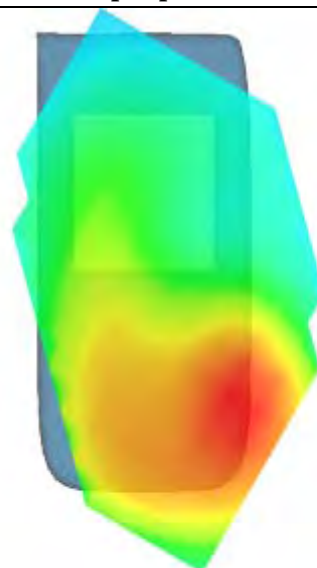
SAR, Z Axis Scan (X = -57, Y = -59)



3D scene shot



Hot spot position



MEASUREMENT 75

Type: Phone measurement (Complete)

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

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

Date of measurement: 13/10/2011

Measurement duration: 8 minutes 12 seconds

A. Experimental conditions.

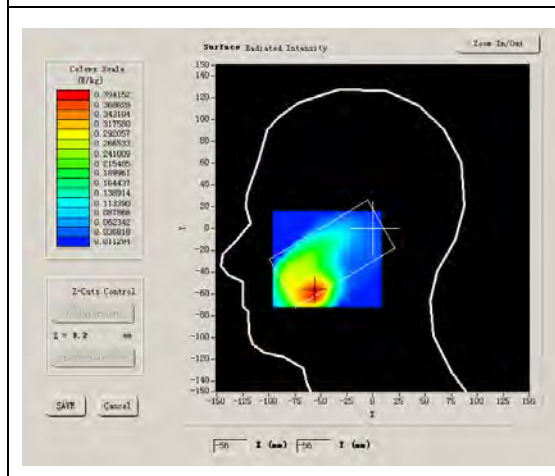
Phantom File	sam_direct_droit2_surf8mm.txt
Phantom	Right head
Device Position	Cheek
Band	WCDMA1900
Channels	Middle
Signal	CDMA

B. SAR Measurement Results

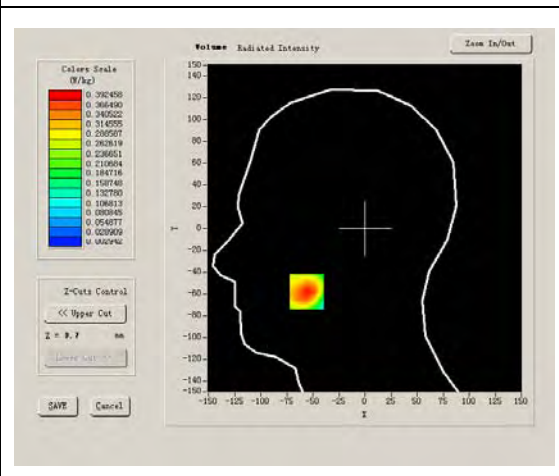
Middle Band SAR (Channel 9400):

Frequency (MHz)	1880.000000
Relative permittivity (real part)	39.910000
Relative permittivity	13.230000
Conductivity (S/m)	1.381800
Power drift (%)	-0.910000
Ambient Temperature:	22.5°C
Liquid Temperature:	22.3°C
ConvF:	40.136,34.843,38.721
Crest factor:	1:1

SURFACE SAR



VOLUME SAR



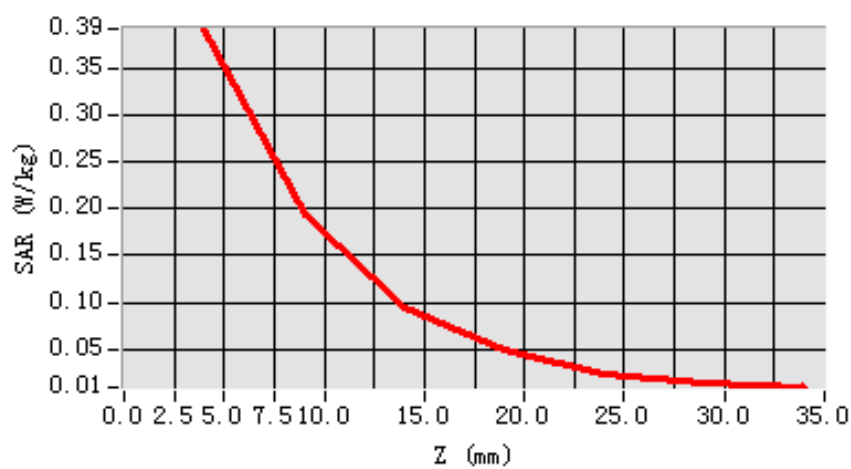
Maximum location: X=-56.00, Y=-58.00

SAR 10g (W/Kg)	0.194427
SAR 1g (W/Kg)	0.376391

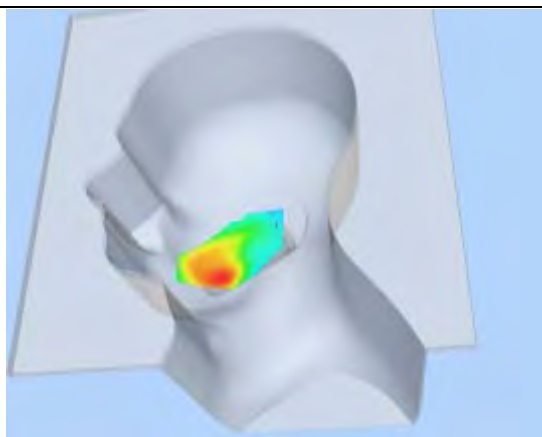
Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	0.3925	0.1927	0.0950	0.0483	0.0241	0.0146

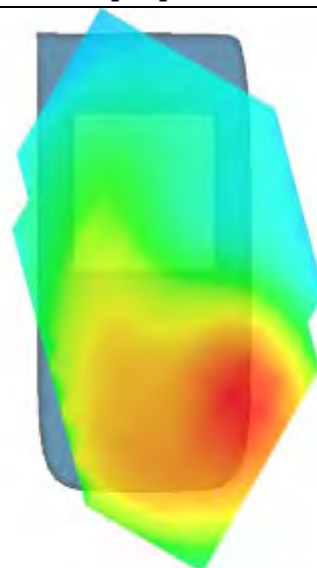
SAR, Z Axis Scan (X = -56, Y = -58)



3D sceen shot



Hot spot position



MEASUREMENT 76

Type: Phone measurement (Complete)

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

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

Date of measurement: 13/10/2011

Measurement duration: 8 minutes 13 seconds

A. Experimental conditions.

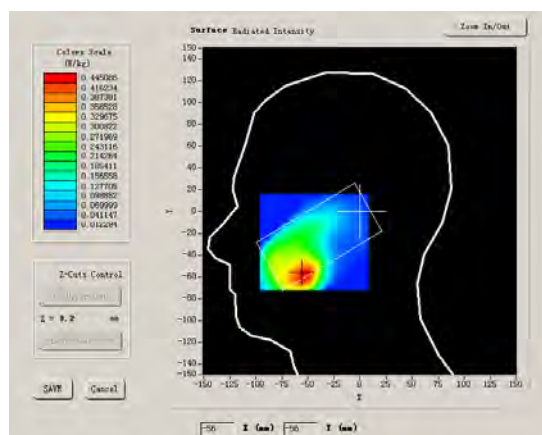
Phantom File	sam_direct_droit2_surf8mm.txt
Phantom	Right head
Device Position	Cheek
Band	WCDMA1900
Channels	High
Signal	CDMA

B. SAR Measurement Results

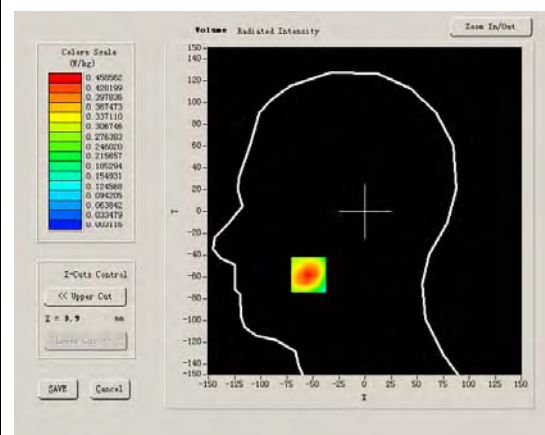
Higher Band SAR (Channel 9538):

Frequency (MHz)	1907.000000
Relative permittivity (real part)	39.799999
Relative permittivity	13.380000
Conductivity (S/m)	1.417537
Power drift (%)	0.600000
Ambient Temperature:	22.9°C
Liquid Temperature:	22.7°C
ConvF:	40.136,34.843,38.721
Crest factor:	1:1

SURFACE SAR



VOLUME SAR



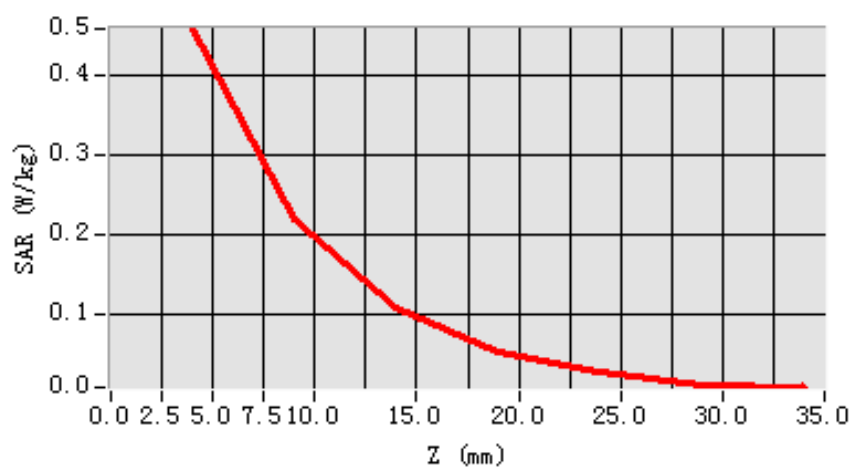
Maximum location: X=-54.00, Y=-58.00

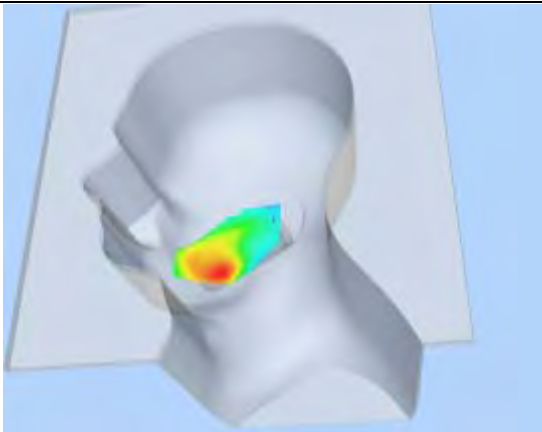
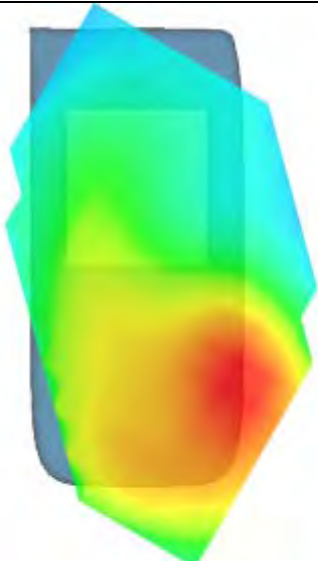
SAR 10g (W/Kg)	0.225143
SAR 1g (W/Kg)	0.439255

Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	0.4586	0.2195	0.1098	0.0553	0.0292	0.0131

SAR, Z Axis Scan (X = -54, Y = -58)



3D sceen shot	Hot spot position
	

MEASUREMENT 77

Type: Phone measurement (Complete)

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

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

Date of measurement: 13/10/2011

Measurement duration: 7 minutes 23 seconds

A. Experimental conditions.

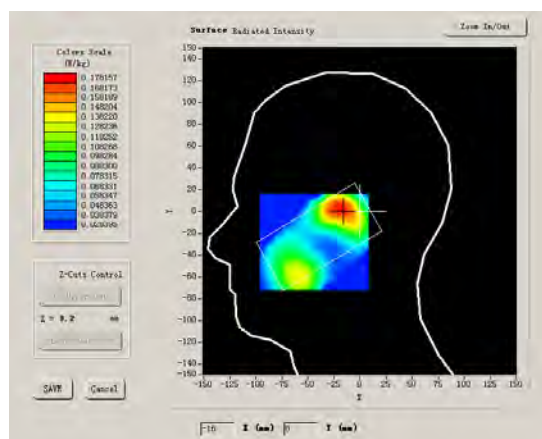
Phantom File	sam_direct_droit2_surf8mm.txt
Phantom	Right head
Device Position	Tilt
Band	WCDMA1900
Channels	Low
Signal	CDMA

B. SAR Measurement Results

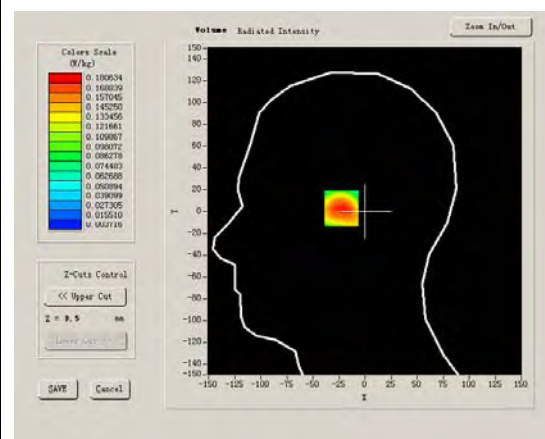
Lower Band SAR (Channel 9262):

Frequency (MHz)	1852.000000
Relative permittivity (real part)	39.980000
Relative permittivity	13.170000
Conductivity (S/m)	1.355047
Power drift (%)	-0.060000
Ambient Temperature:	22.4°C
Liquid Temperature:	22.1°C
ConvF:	28.479,25.214,27.196
Crest factor:	1:1

SURFACE SAR



VOLUME SAR



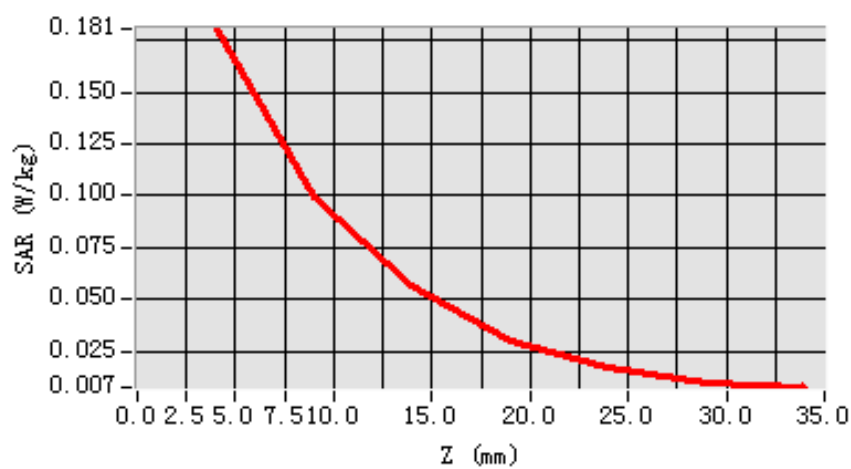
Maximum location: X=-19.00, Y=3.00

SAR 10g (W/Kg)	0.096531
SAR 1g (W/Kg)	0.173049

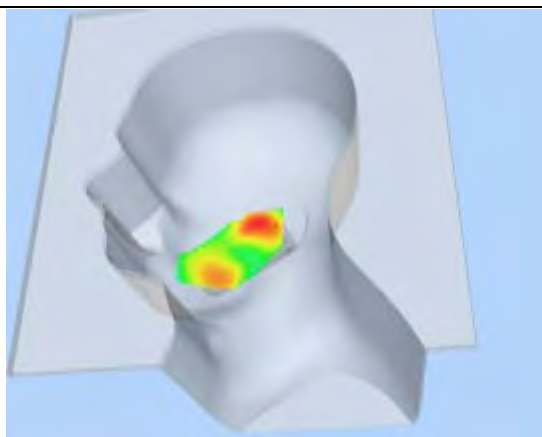
Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	0.1806	0.0996	0.0562	0.0301	0.0169	0.0100

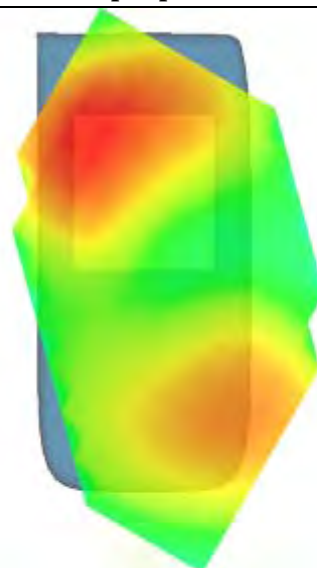
SAR, Z Axis Scan (X = -19, Y = 3)



3D sceen shot



Hot spot position



MEASUREMENT 78

Type: Phone measurement (Complete)

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

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

Date of measurement: 13/10/2011

Measurement duration: 7 minutes 25 seconds

A. Experimental conditions.

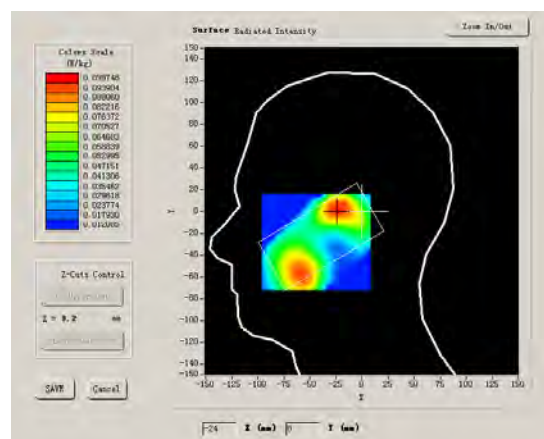
Phantom File	sam_direct_droit2_surf8mm.txt
Phantom	Right head
Device Position	Tilt
Band	WCDMA1900
Channels	Middle
Signal	CDMA

B. SAR Measurement Results

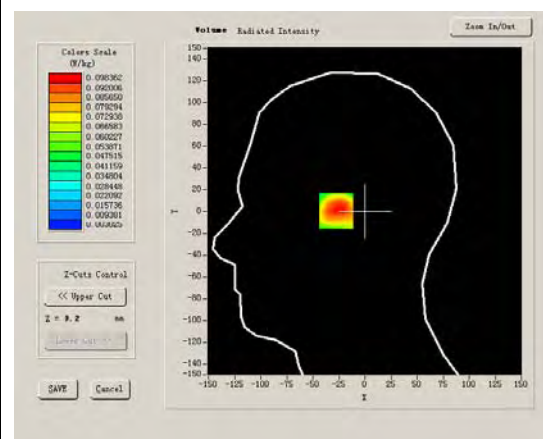
Middle Band SAR (Channel 9400):

Frequency (MHz)	1880.000000
Relative permittivity (real part)	39.910000
Relative permittivity	13.230000
Conductivity (S/m)	1.381800
Power drift (%)	-0.760000
Ambient Temperature:	22.9°C
Liquid Temperature:	22.7°C
ConvF:	40.136,34.843,38.721
Crest factor:	1:1

SURFACE SAR



VOLUME SAR



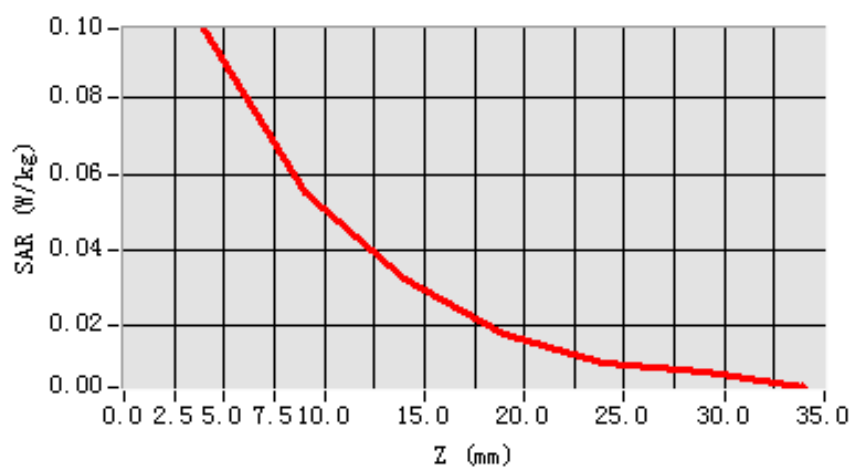
Maximum location: X=-24.00, Y=1.00

SAR 10g (W/Kg)	0.053419
SAR 1g (W/Kg)	0.095601

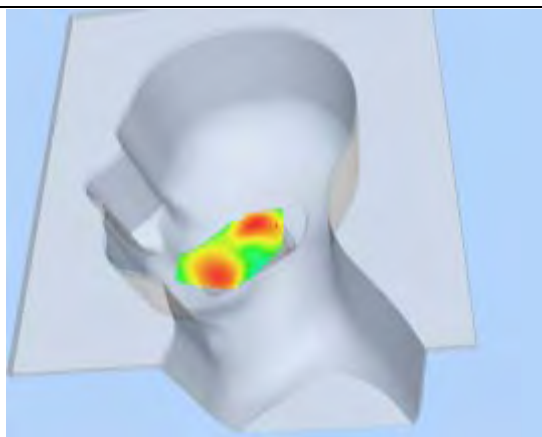
Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	0.0984	0.0554	0.0322	0.0175	0.0105	0.0079

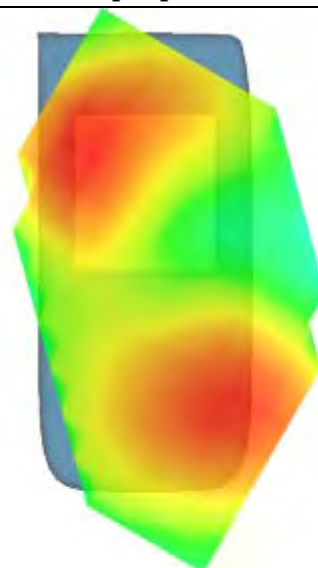
SAR, Z Axis Scan (X = -24, Y = 1)



3D sceen shot



Hot spot position



MEASUREMENT 79

Type: Phone measurement (Complete)

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

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

Date of measurement: 13/10/2011

Measurement duration: 7 minutes 25 seconds

A. Experimental conditions.

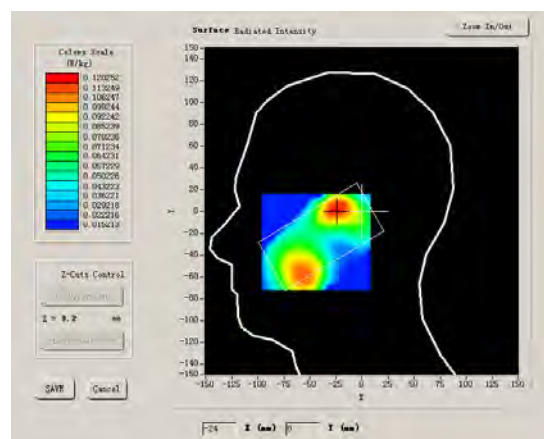
Phantom File	sam_direct_droit2_surf8mm.txt
Phantom	Right head
Device Position	Tilt
Band	WCDMA1900
Channels	High
Signal	CDMA

B. SAR Measurement Results

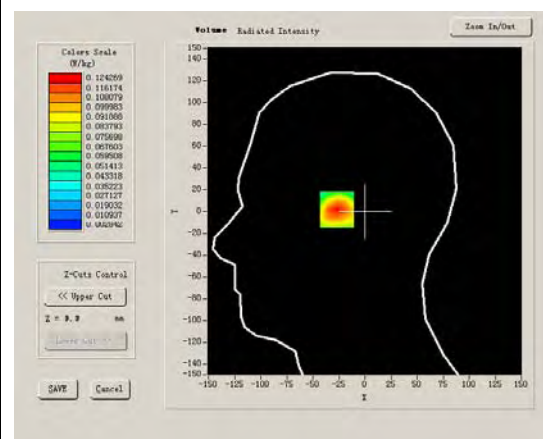
Higher Band SAR (Channel 9538):

Frequency (MHz)	1907.000000
Relative permittivity (real part)	39.799999
Relative permittivity	13.380000
Conductivity (S/m)	1.417537
Power drift (%)	-380.630005
Ambient Temperature:	22.9°C
Liquid Temperature:	22.7°C
ConvF:	40.136,34.843,38.721
Crest factor:	1:1

SURFACE SAR



VOLUME SAR



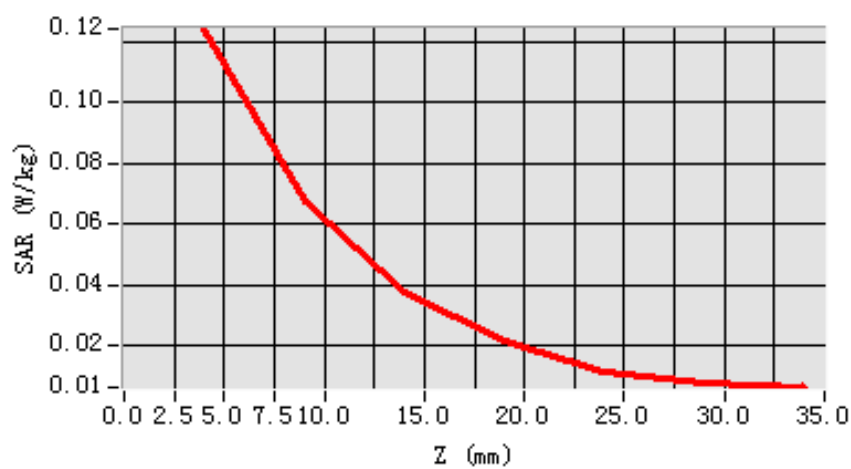
Maximum location: X=-24.00, Y=3.00

SAR 10g (W/Kg)	0.064682
SAR 1g (W/Kg)	0.118226

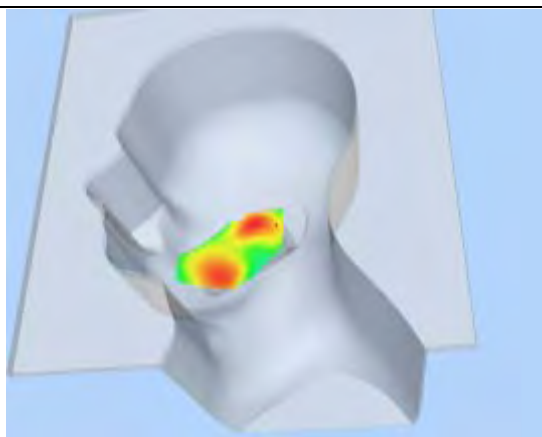
Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	0.1243	0.0672	0.0377	0.0212	0.0112	0.0076

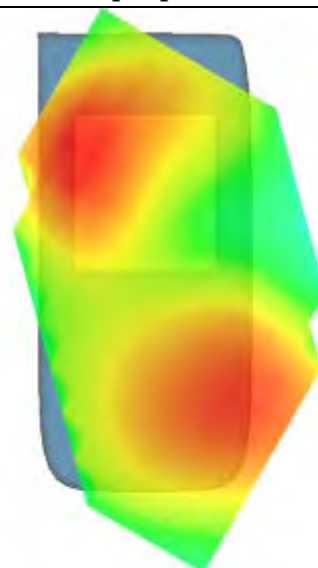
SAR, Z Axis Scan (X = -24, Y = 3)



3D sceen shot



Hot spot position



MEASUREMENT 80

Type: Phone measurement (Complete)

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

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

Date of measurement: 13/10/2011

Measurement duration: 8 minutes 52 seconds

A. Experimental conditions.

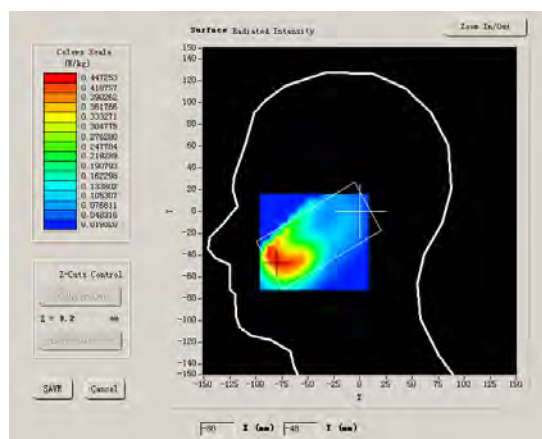
Phantom File	sam_direct_droit2_surf8mm.txt
Phantom	Left head
Device Position	Cheek
Band	WCDMA1900
Channels	Low
Signal	CDMA

B. SAR Measurement Results

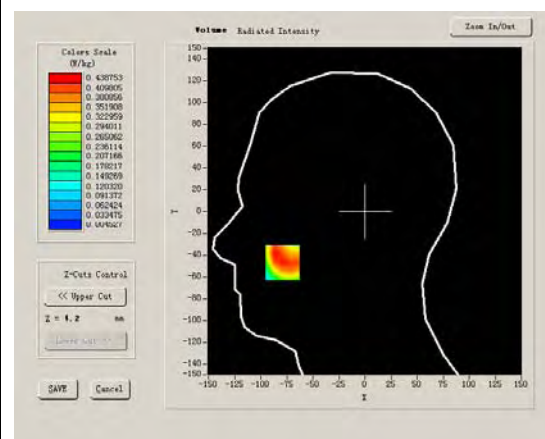
Lower Band SAR (Channel 9262):

Frequency (MHz)	1852.000000
Relative permittivity (real part)	39.980000
Relative permittivity	13.170000
Conductivity (S/m)	1.355047
Power drift (%)	-0.260000
Ambient Temperature:	22.4°C
Liquid Temperature:	22.1°C
ConvF:	28.479,25.214,27.196
Crest factor:	1:1

SURFACE SAR



VOLUME SAR



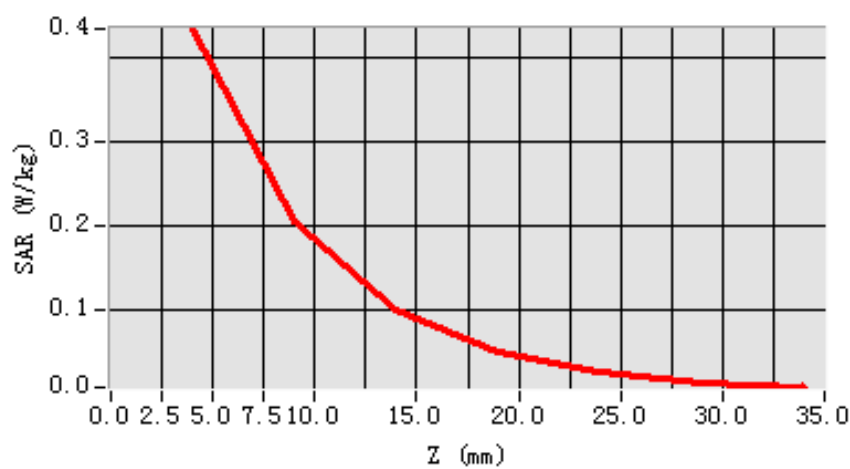
Maximum location: X=-79.00, Y=-47.00

SAR 10g (W/Kg)	0.223705
SAR 1g (W/Kg)	0.428391

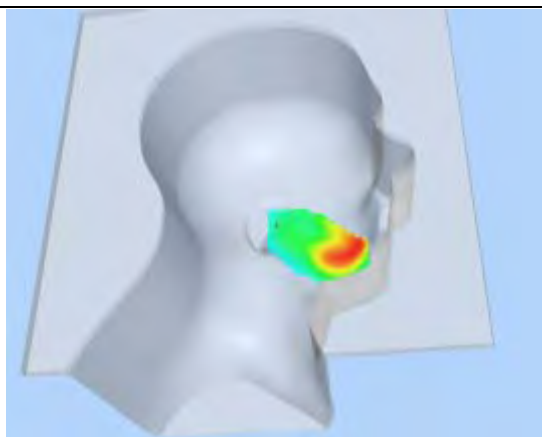
Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	0.4356	0.2065	0.0998	0.0500	0.0264	0.0139

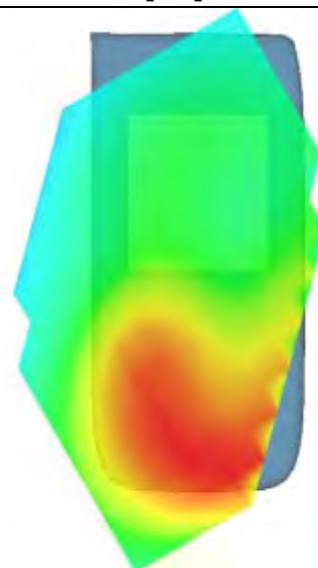
SAR, Z Axis Scan (X = -79, Y = -47)



3D sceen shot



Hot spot position



MEASUREMENT 81

Type: Phone measurement (Complete)

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

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

Date of measurement: 13/10/2011

Measurement duration: 8 minutes 48 seconds

A. Experimental conditions.

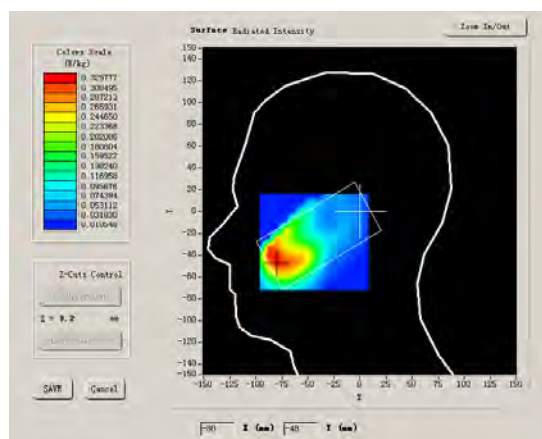
Phantom File	sam_direct_droit2_surf8mm.txt
Phantom	Left head
Device Position	Cheek
Band	WCDMA1900
Channels	Middle
Signal	CDMA

B. SAR Measurement Results

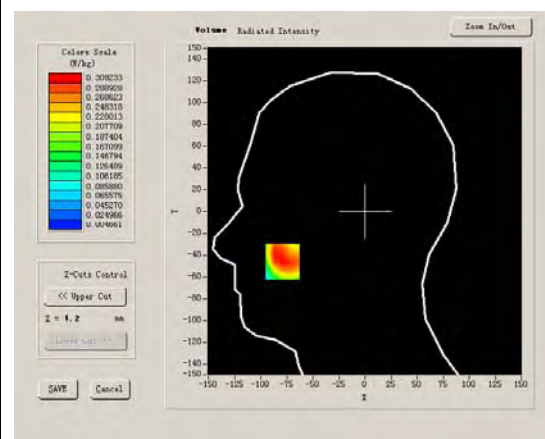
Middle Band SAR (Channel 9400):

Frequency (MHz)	1880.000000
Relative permittivity (real part)	39.910000
Relative permittivity	13.230000
Conductivity (S/m)	1.381800
Power drift (%)	-2.770000
Ambient Temperature:	22.5°C
Liquid Temperature:	22.3°C
ConvF:	40.136,34.843,38.721
Crest factor:	1:1

SURFACE SAR



VOLUME SAR



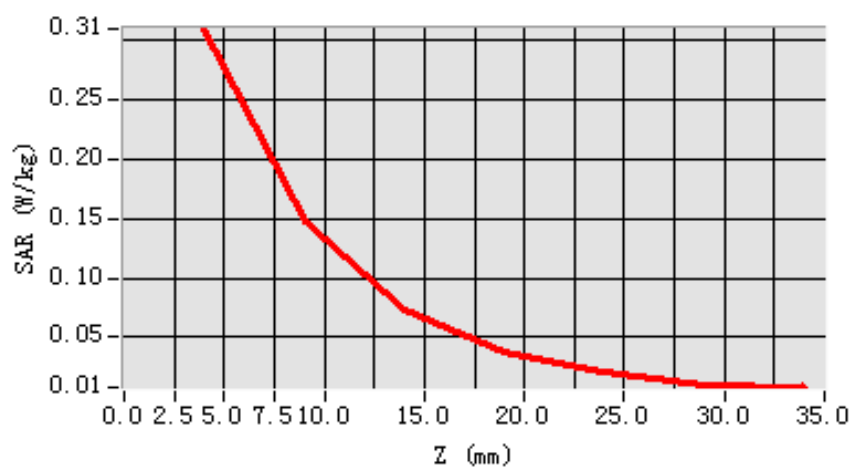
Maximum location: X=-79.00, Y=-46.00

SAR 10g (W/Kg)	0.162035
SAR 1g (W/Kg)	0.307121

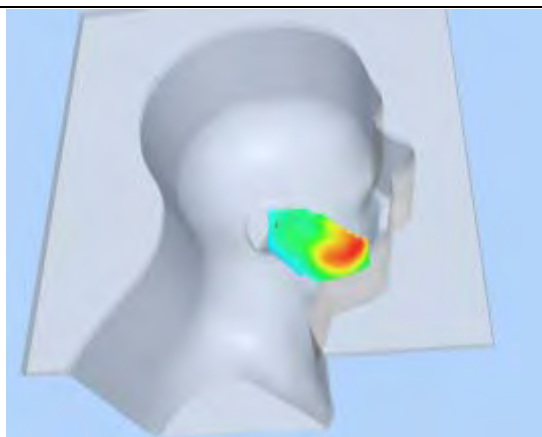
Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	0.3092	0.1475	0.0736	0.0377	0.0209	0.0105

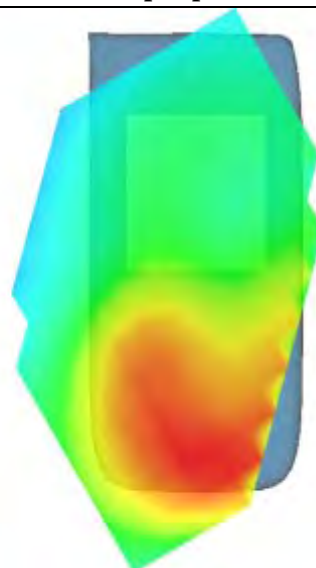
SAR, Z Axis Scan (X = -79, Y = -46)



3D sceen shot



Hot spot position



MEASUREMENT 82

Type: Phone measurement (Complete)

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

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

Date of measurement: 13/10/2011

Measurement duration: 9 minutes 5 seconds

A. Experimental conditions.

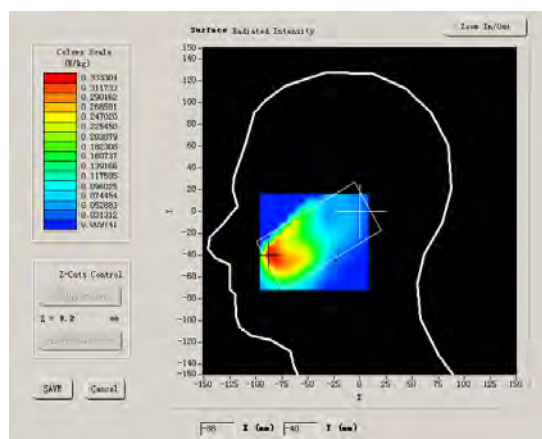
Phantom File	sam_direct_droit2_surf8mm.txt
Phantom	Left head
Device Position	Cheek
Band	WCDMA1900
Channels	High
Signal	CDMA

B. SAR Measurement Results

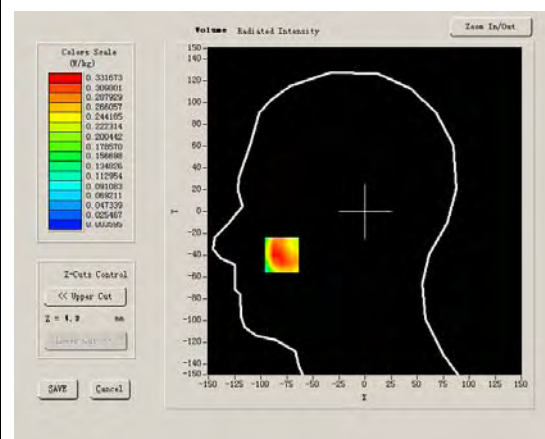
Higher Band SAR (Channel 9538):

Frequency (MHz)	1907.000000
Relative permittivity (real part)	39.799999
Relative permittivity	13.380000
Conductivity (S/m)	1.417537
Power drift (%)	0.070000
Ambient Temperature:	22.5°C
Liquid Temperature:	22.3°C
ConvF:	40.136,34.843,38.721
Crest factor:	1:1

SURFACE SAR



VOLUME SAR



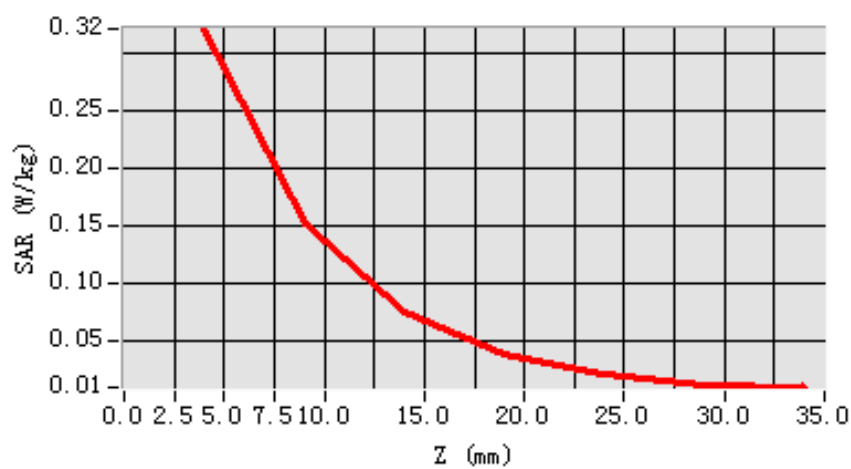
Maximum location: X=-80.00, Y=-40.00

SAR 10g (W/Kg)	0.170576
SAR 1g (W/Kg)	0.325942

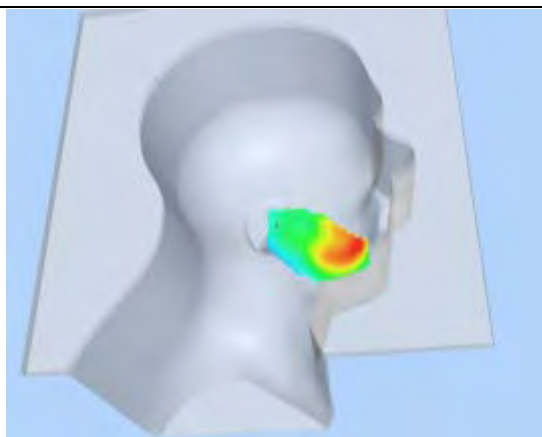
Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	0.3211	0.1505	0.0745	0.0374	0.0206	0.0117

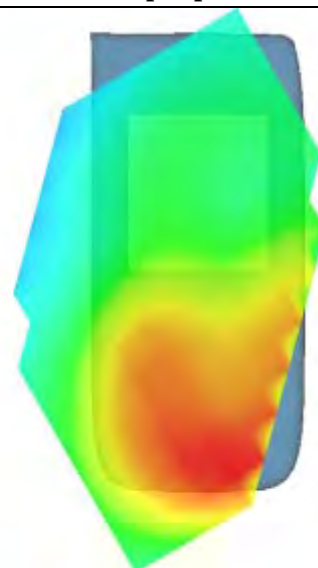
SAR, Z Axis Scan (X = -80, Y = -40)



3D sceen shot



Hot spot position



MEASUREMENT 83

Type: Phone measurement (Complete)

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

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

Date of measurement: 13/10/2011

Measurement duration: 8 minutes 52 seconds

A. Experimental conditions.

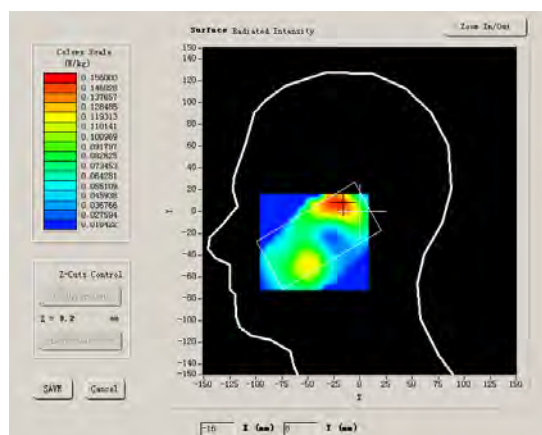
Phantom File	sam_direct_droit2_surf8mm.txt
Phantom	Left head
Device Position	Tilt
Band	WCDMA1900
Channels	Low
Signal	CDMA

B. SAR Measurement Results

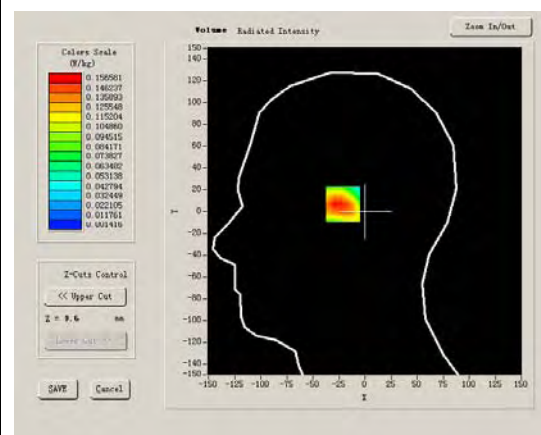
Lower Band SAR (Channel 9262):

Frequency (MHz)	1852.000000
Relative permittivity (real part)	39.980000
Relative permittivity	13.170000
Conductivity (S/m)	1.355047
Power drift (%)	-0.260000
Ambient Temperature:	22.4°C
Liquid Temperature:	22.1°C
ConvF:	28.479,25.214,27.196
Crest factor:	1:1

SURFACE SAR



VOLUME SAR



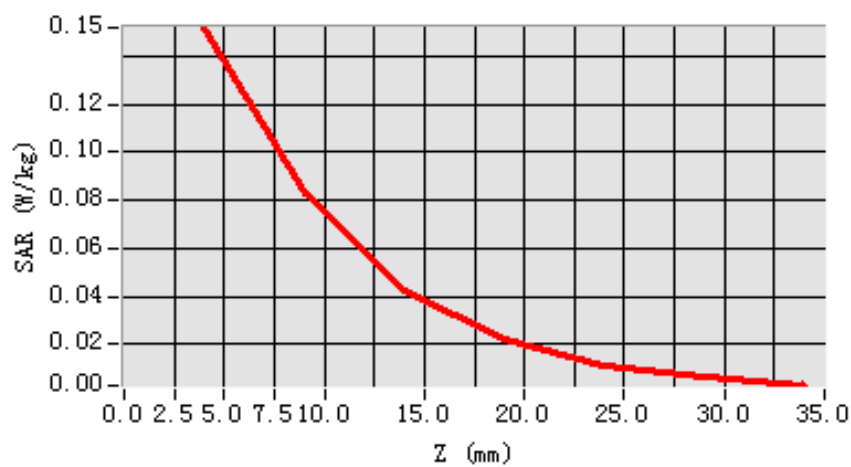
Maximum location: X=-18.00, Y=8.00

SAR 10g (W/Kg)	0.081378
SAR 1g (W/Kg)	0.148921

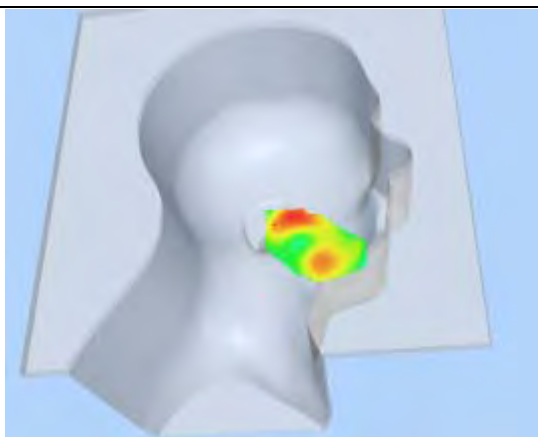
Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	0.1521	0.0832	0.0428	0.0221	0.0113	0.0065

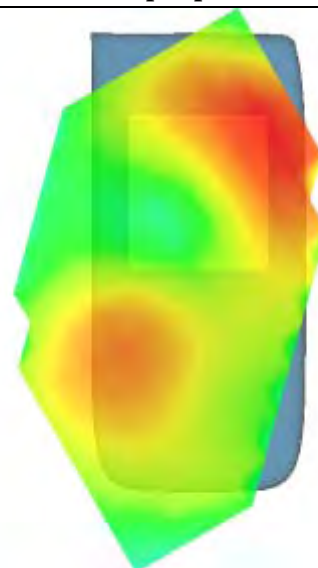
SAR, Z Axis Scan (X = -18, Y = 8)



3D sceen shot



Hot spot position



MEASUREMENT 84

Type: Phone measurement (Complete)

Area scan resolution: $dx=8\text{mm}, dy=8\text{mm}$

Zoom scan resolution: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Date of measurement: 13/10/2011

Measurement duration: 8 minutes 48 seconds

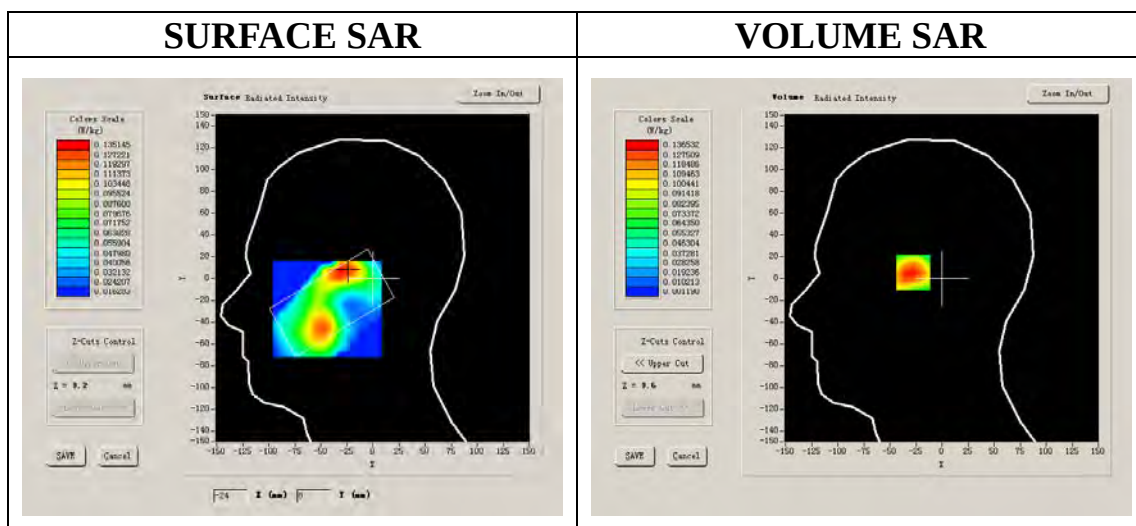
A. Experimental conditions.

Phantom File	sam_direct_droit2_surf8mm.txt
Phantom	Left head
Device Position	Tilt
Band	WCDMA1900
Channels	Middle
Signal	CDMA

B. SAR Measurement Results

Middle Band SAR (Channel 9400):

Frequency (MHz)	1880.000000
Relative permittivity (real part)	39.910000
Relative permittivity	13.230000
Conductivity (S/m)	1.381800
Power drift (%)	-2.770000
Ambient Temperature:	22.5°C
Liquid Temperature:	22.3°C
ConvF:	40.136,34.843,38.721
Crest factor:	1:1



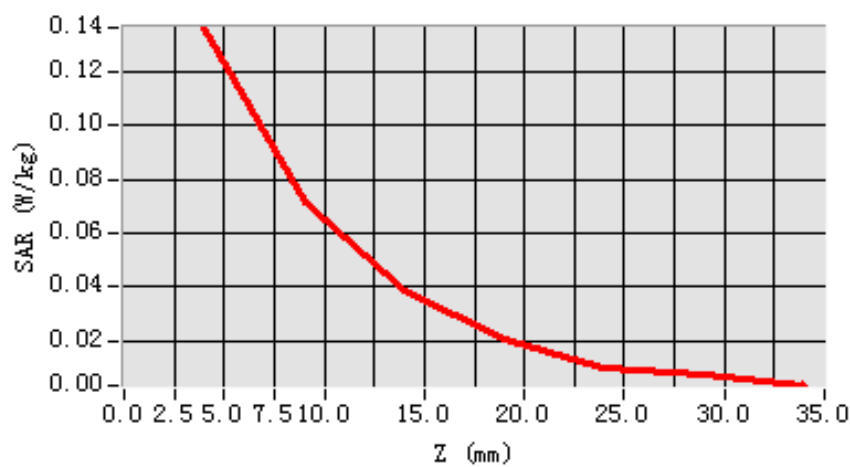
Maximum location: X=-26.00, Y=8.00

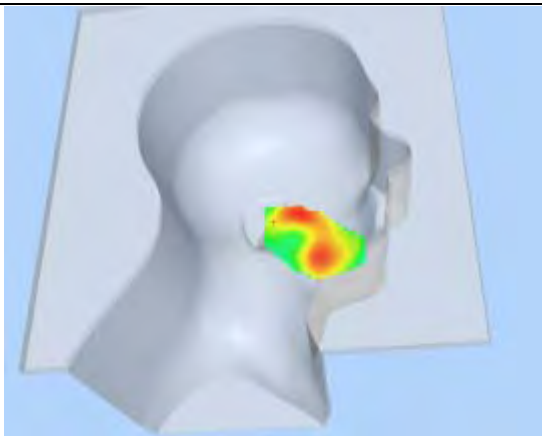
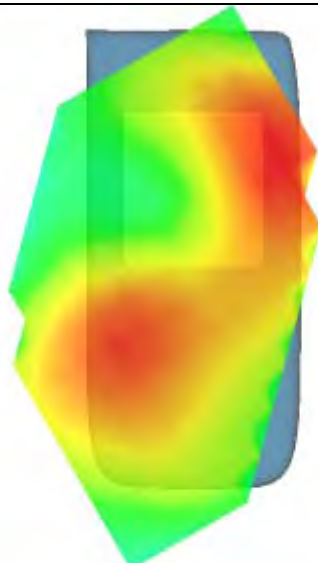
SAR 10g (W/Kg)	0.071092
SAR 1g (W/Kg)	0.132507

Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	0.1365	0.0713	0.0382	0.0207	0.0100	0.0070

SAR, Z Axis Scan (X = -26, Y = 8)



3D sceen shot	Hot spot position
	

MEASUREMENT 85

Type: Phone measurement (Complete)

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

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

Date of measurement: 13/10/2011

Measurement duration: 9 minutes 5 seconds

A. Experimental conditions.

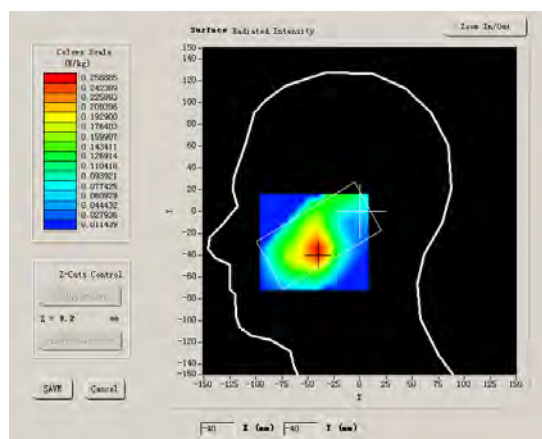
Phantom File	sam_direct_droit2_surf8mm.txt
Phantom	Left head
Device Position	Tilt
Band	WCDMA1900
Channels	High
Signal	CDMA

B. SAR Measurement Results

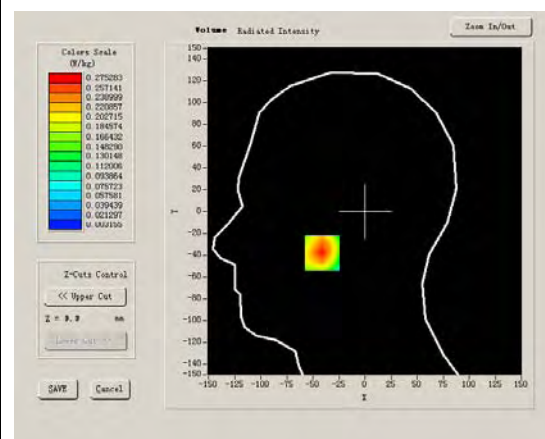
Higher Band SAR (Channel 9538):

Frequency (MHz)	1907.000000
Relative permittivity (real part)	39.799999
Relative permittivity	13.380000
Conductivity (S/m)	1.417537
Power drift (%)	0.070000
Ambient Temperature:	22.5°C
Liquid Temperature:	22.3°C
ConvF:	40.136,34.843,38.721
Crest factor:	1:1

SURFACE SAR



VOLUME SAR



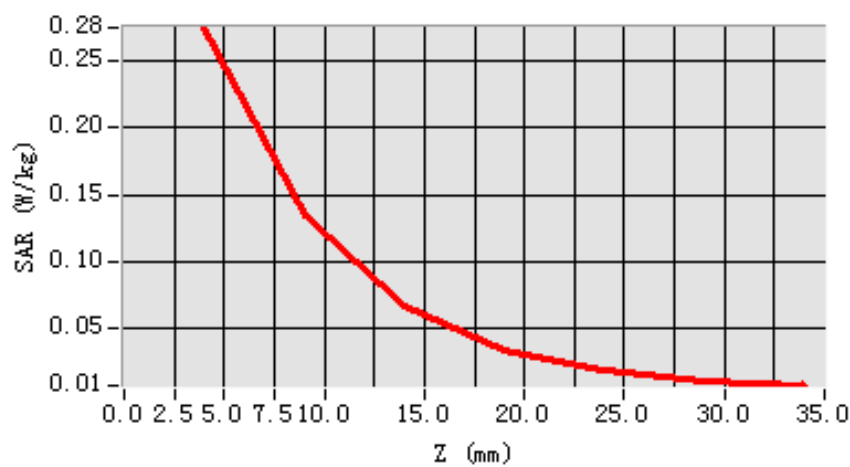
Maximum location: X=-41.00, Y=-38.00

SAR 10g (W/Kg)	0.134926
SAR 1g (W/Kg)	0.257804

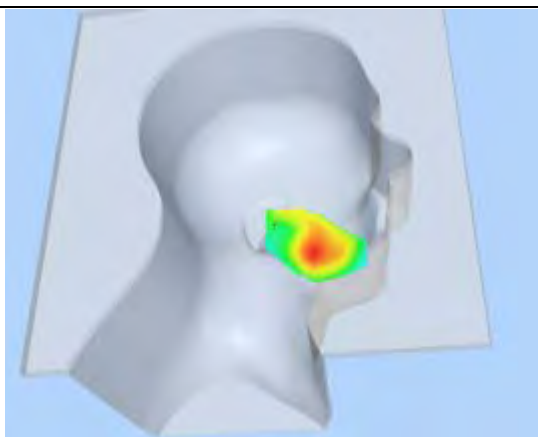
Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	0.2753	0.1350	0.0671	0.0328	0.0180	0.0097

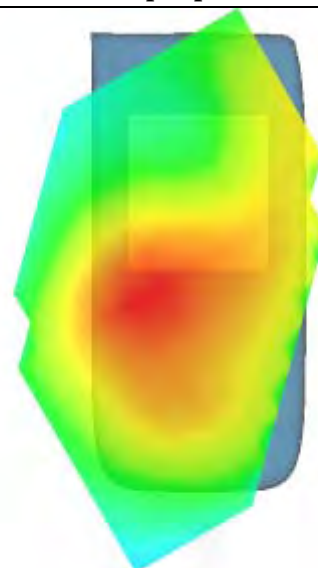
SAR, Z Axis Scan (X = -41, Y = -38)



3D sceen shot



Hot spot position



MEASUREMENT 86

Type: Phone measurement (Complete)

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

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

Date of measurement: 13/10/2011

Measurement duration: 9 minutes 15 seconds

A. Experimental conditions.

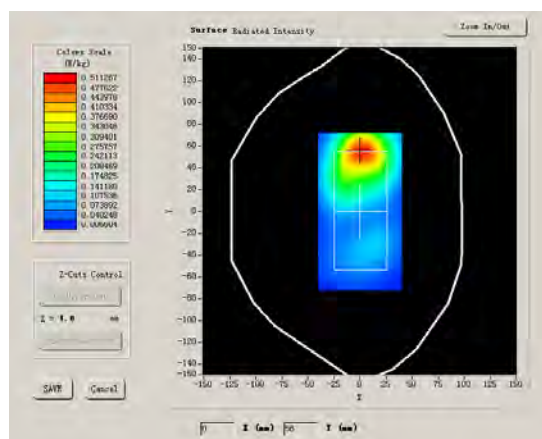
Phantom File	surf_sam_plan.txt
Phantom	Validation plane
Device Position	Body
Band	WCDMA1900
Channels	High
Signal	CDMA

B. SAR Measurement Results

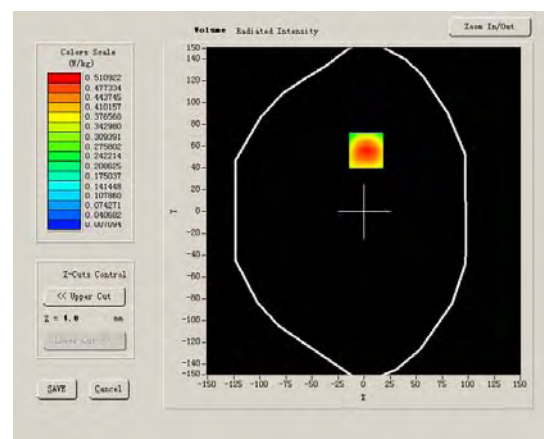
Higher Band SAR (Channel 9538):

Frequency (MHz)	1907.000000
Relative permittivity (real part)	51.341000
Relative permittivity	15.877050
Conductivity (S/m)	1.682085
Power drift (%)	-0.720000
Ambient Temperature:	22.5°C
Liquid Temperature:	22.3°C
ConvF:	40.136,34.843,38.721
Crest factor:	1:1

SURFACE SAR



VOLUME SAR



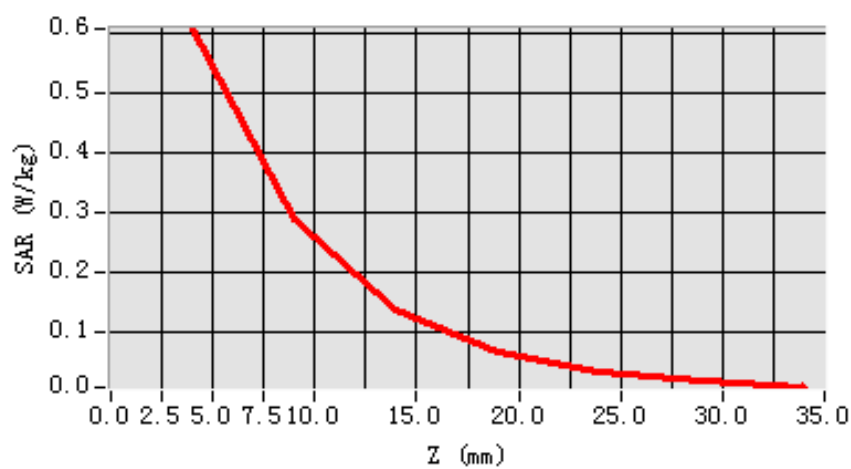
Maximum location: X=2.00, Y=56.00

SAR 10g (W/Kg)	0.308177
SAR 1g (W/Kg)	0.582293

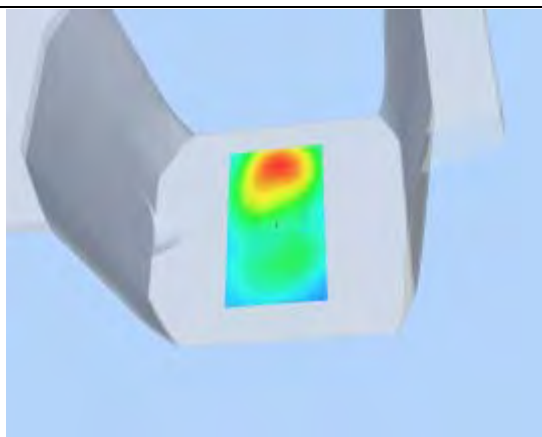
Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	0.6063	0.2891	0.1402	0.0700	0.0358	0.0199

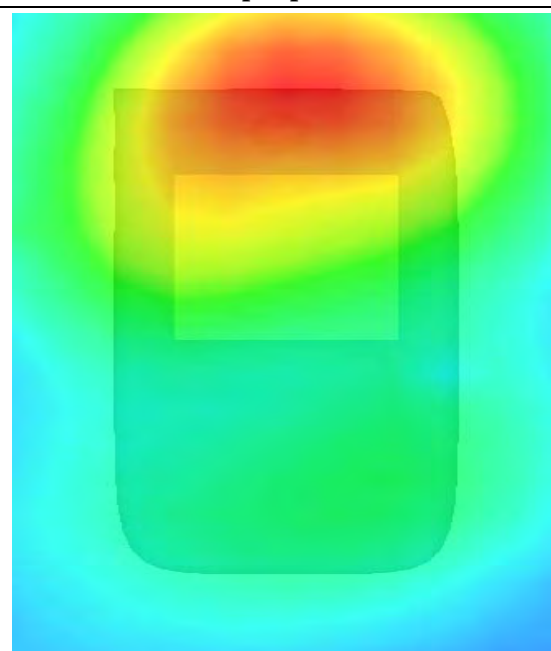
SAR, Z Axis Scan (X = 2, Y = 56)



3D sceen shot



Hot spot position



MEASUREMENT 87

Type: Phone measurement (Complete)

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

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

Date of measurement: 17/10/2011

Measurement duration: 9 minutes 7 seconds

A. Experimental conditions.

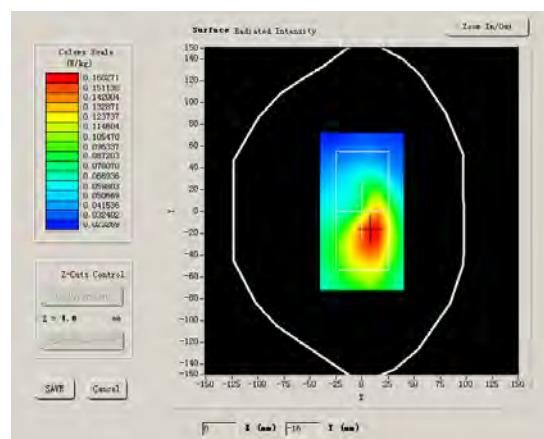
Phantom File	surf_sam_plan.txt
Phantom	Validation plane
Device Position	Body
Band	WCDMA1900
Channels	High
Signal	CDMA

B. SAR Measurement Results

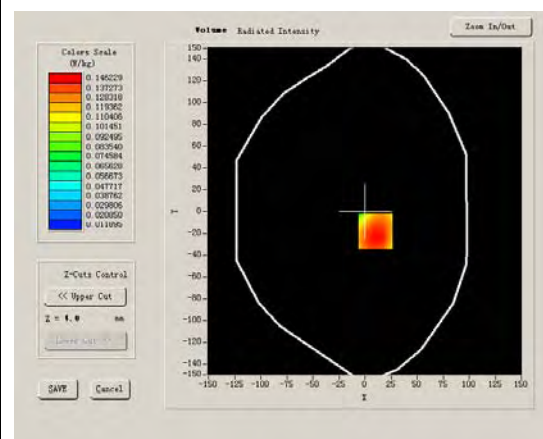
Higher Band SAR (Channel 9538):

Frequency (MHz)	1907.000000
Relative permittivity (real part)	51.341000
Relative permittivity	15.877050
Conductivity (S/m)	1.682085
Power drift (%)	-4.480000
Ambient Temperature:	22.5°C
Liquid Temperature:	22.3°C
ConvF:	40.136,34.843,38.721
Crest factor:	1:1

SURFACE SAR



VOLUME SAR



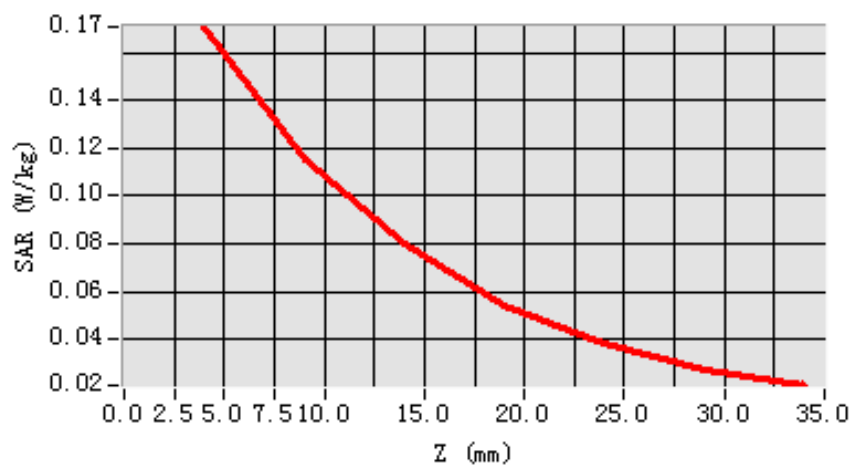
Maximum location: X=10.00, Y=-18.00

SAR 10g (W/Kg)	0.112887
SAR 1g (W/Kg)	0.168692

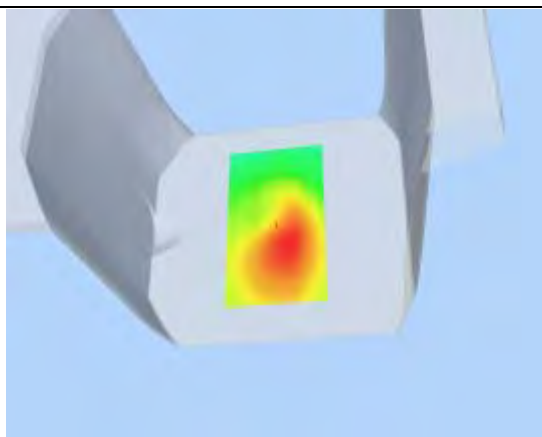
Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	0.1710	0.1156	0.0804	0.0537	0.0384	0.0270

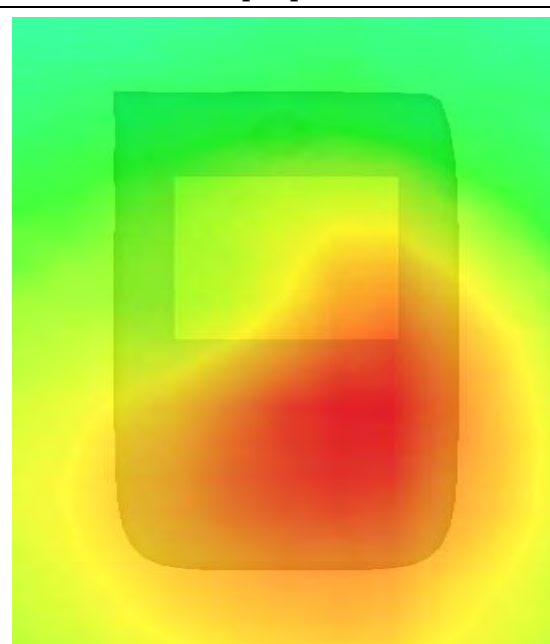
SAR, Z Axis Scan (X = 10, Y = -18)



3D sceen shot



Hot spot position



MEASUREMENT 88

Type: Phone measurement (Complete)

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

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

Date of measurement: 13/10/2011

Measurement duration: 9 minutes 6 seconds

A. Experimental conditions.

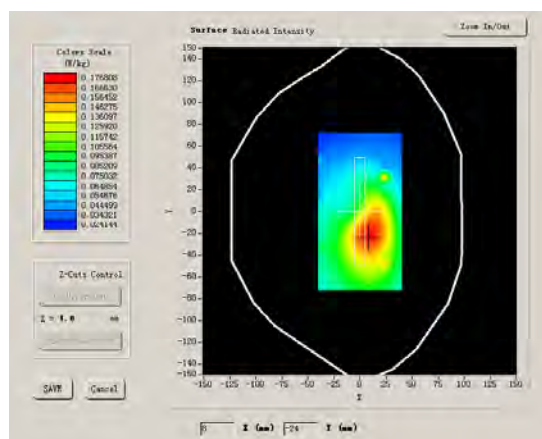
Phantom File	surf_sam_plan.txt
Phantom	Validation plane
Device Position	Body
Band	WCDMA1900
Channels	High
Signal	CDMA

B. SAR Measurement Results

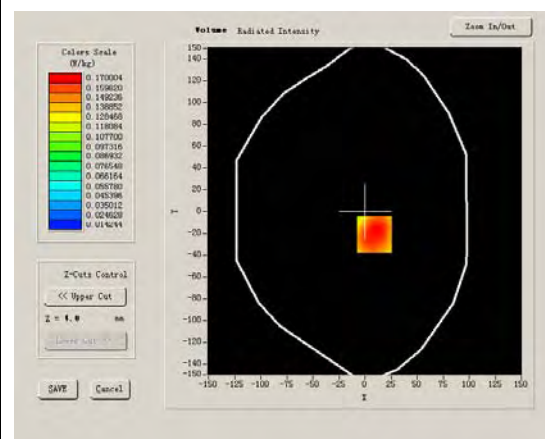
Higher Band SAR (Channel 9538):

Frequency (MHz)	1907.000000
Relative permittivity (real part)	51.341000
Relative permittivity	15.877050
Conductivity (S/m)	1.682085
Power drift (%)	-0.690000
Ambient Temperature:	22.5°C
Liquid Temperature:	22.3°C
ConvF:	40.136,34.843,38.721
Crest factor:	1:1

SURFACE SAR



VOLUME SAR



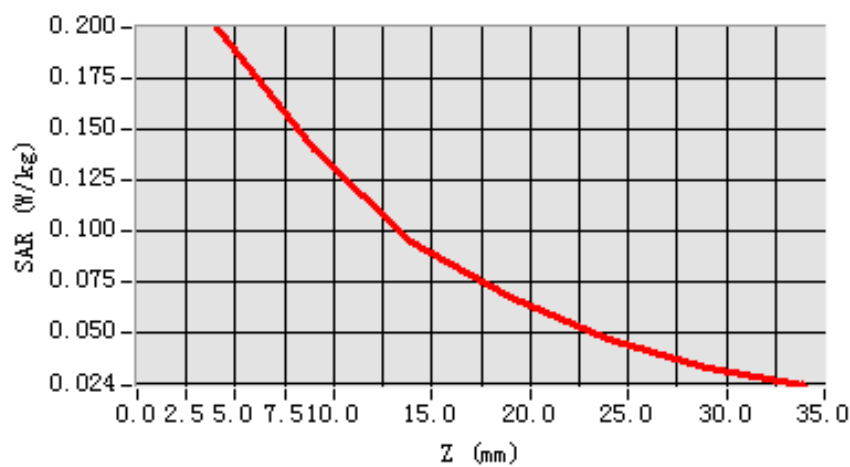
Maximum location: X=9.00, Y=-21.00

SAR 10g (W/Kg)	0.133549
SAR 1g (W/Kg)	0.198523

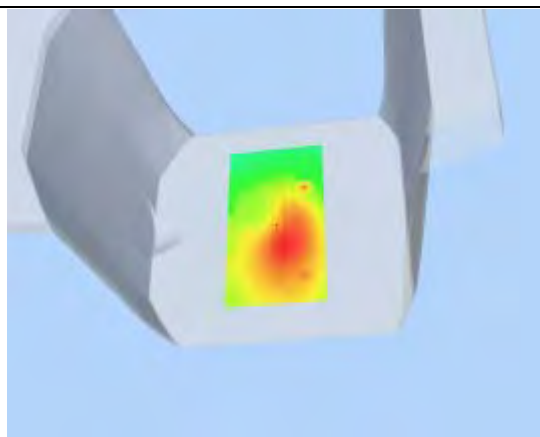
Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	0.2001	0.1409	0.0953	0.0674	0.0469	0.0331

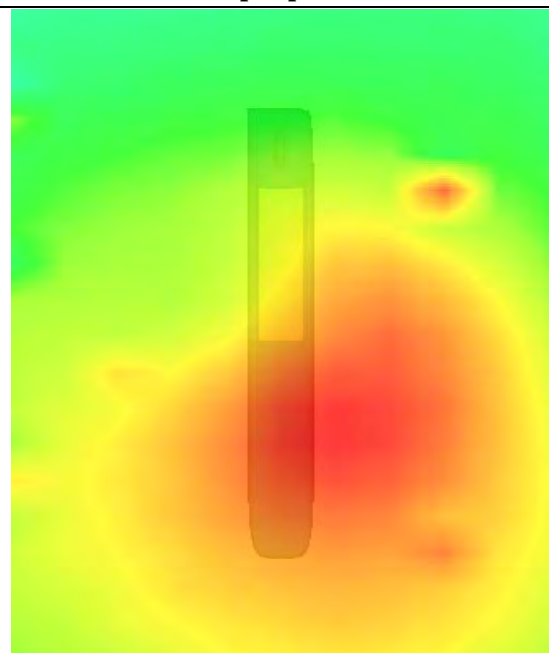
SAR, Z Axis Scan (X = 9, Y = -21)



3D sceen shot



Hot spot position



MEASUREMENT 89

Type: Phone measurement (Complete)

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

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

Date of measurement: 13/10/2011

Measurement duration: 9 minutes 7 seconds

A. Experimental conditions.

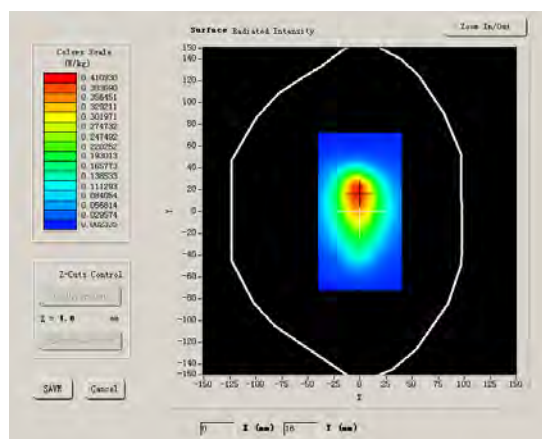
Phantom File	surf_sam_plan.txt
Phantom	Validation plane
Device Position	Body
Band	WCDMA1900
Channels	High
Signal	CDMA

B. SAR Measurement Results

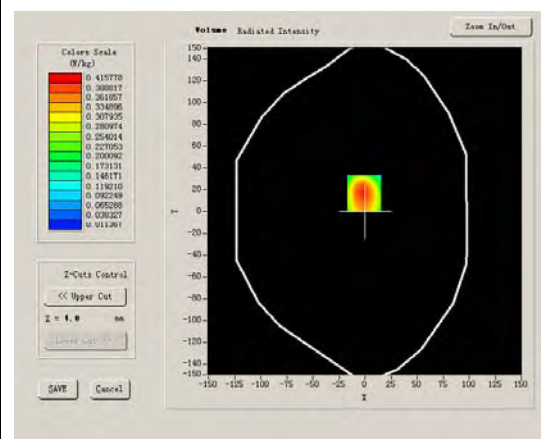
Higher Band SAR (Channel 9538):

Frequency (MHz)	1907.000000
Relative permittivity (real part)	51.341000
Relative permittivity	15.877050
Conductivity (S/m)	1.682085
Power drift (%)	-1.080000
Ambient Temperature:	22.5°C
Liquid Temperature:	22.3°C
ConvF:	40.136,34.843,38.721
Crest factor:	1:1

SURFACE SAR



VOLUME SAR



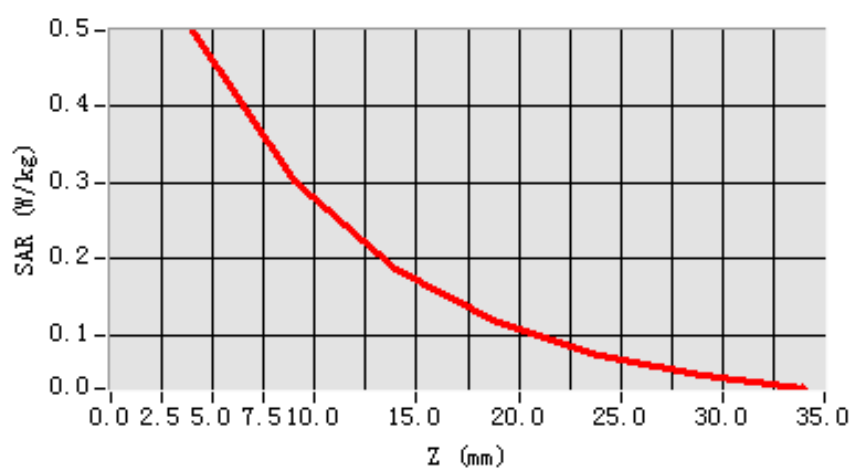
Maximum location: X=-1.00, Y=17.00

SAR 10g (W/Kg)	0.284634
SAR 1g (W/Kg)	0.478222

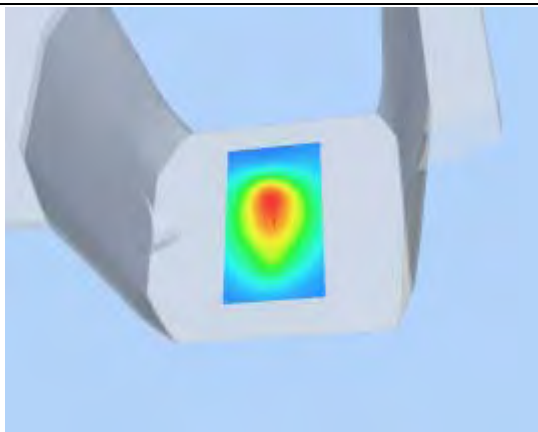
Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	0.4990	0.3033	0.1868	0.1167	0.0739	0.0466

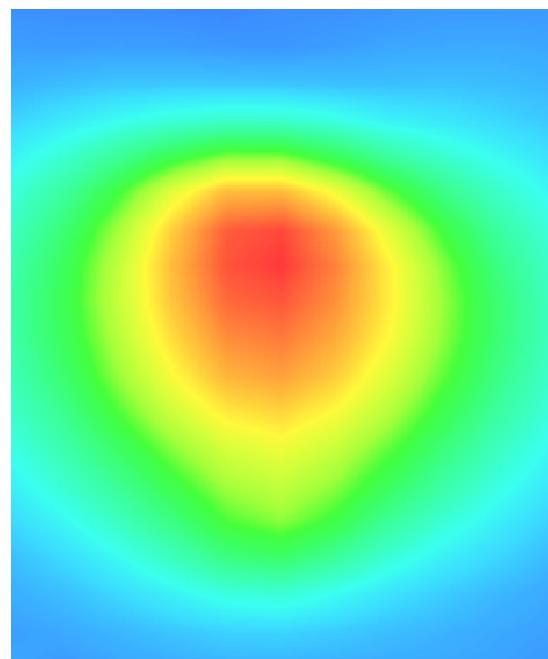
SAR, Z Axis Scan (X = -1, Y = 17)



3D scene shot



Hot spot position



MEASUREMENT 90

Type: Phone measurement (Complete)

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

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

Date of measurement: 13/10/2011

Measurement duration: 9 minutes 6 seconds

A. Experimental conditions.

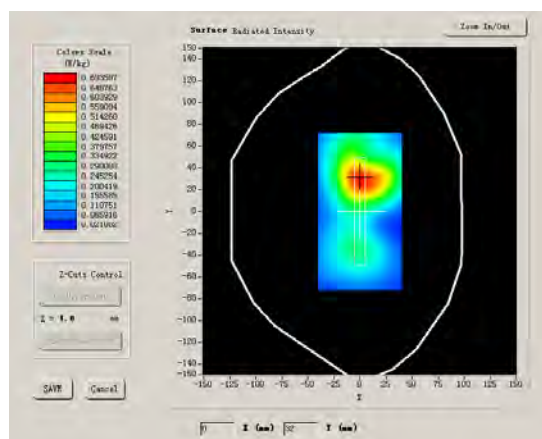
Phantom File	surf_sam_plan.txt
Phantom	Validation plane
Device Position	Body
Band	WCDMA1900
Channels	High
Signal	CDMA

B. SAR Measurement Results

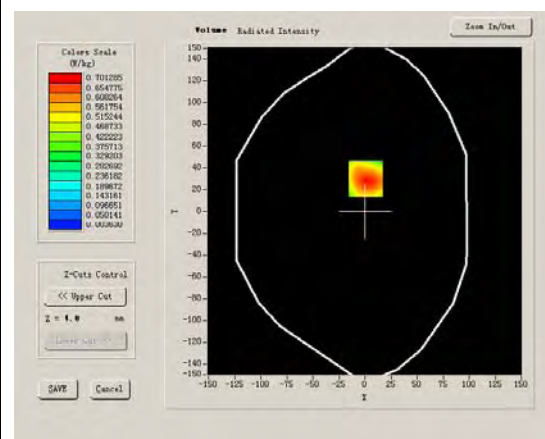
Higher Band SAR (Channel 9538):

Frequency (MHz)	1907.000000
Relative permittivity (real part)	51.341000
Relative permittivity	15.877050
Conductivity (S/m)	1.682085
Power drift (%)	0.110000
Ambient Temperature:	22.5°C
Liquid Temperature:	22.3°C
ConvF:	40.136,34.843,38.721
Crest factor:	1:1

SURFACE SAR



VOLUME SAR



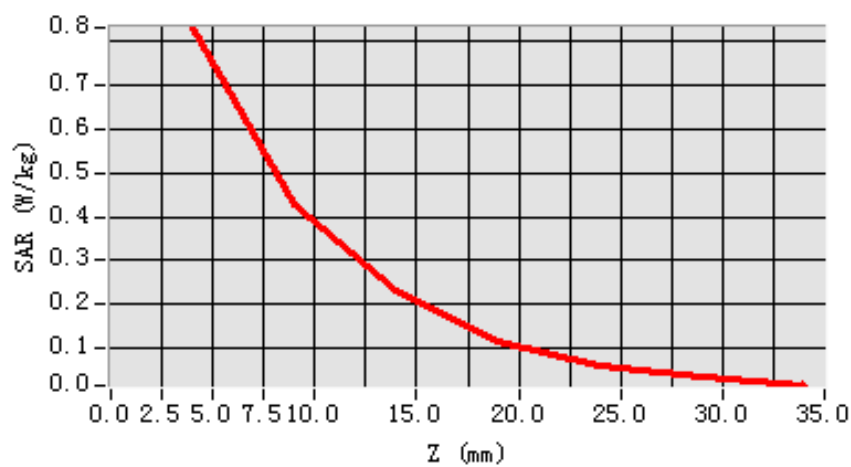
Maximum location: X=1.00, Y=30.00

SAR 10g (W/Kg)	0.438550
SAR 1g (W/Kg)	0.770902

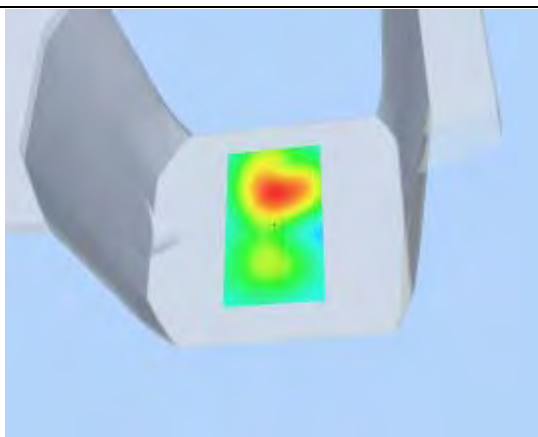
Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	0.8322	0.4293	0.2313	0.1147	0.0582	0.0323

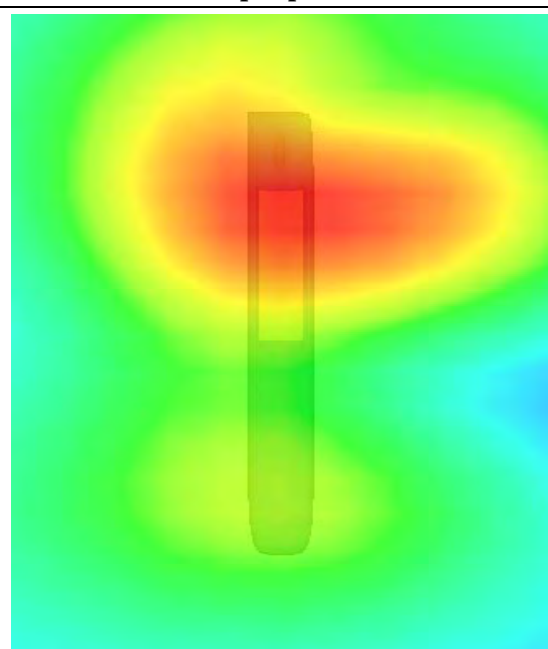
SAR, Z Axis Scan (X = 1, Y = 30)



3D scene shot



Hot spot position



MEASUREMENT 91

Type: Phone measurement (Complete)

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

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

Date of measurement: 12/10/2011

Measurement duration: 9 minutes 10 seconds

A. Experimental conditions.

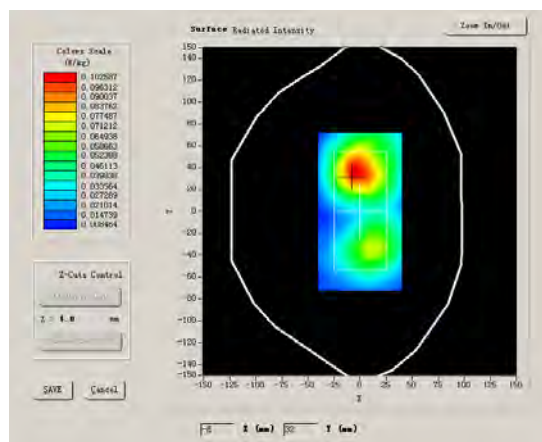
Phantom File	surf_sam_plan.txt
Phantom	Validation plane
Device Position	Body
Band	802.11B
Channels	Low
Signal	DSSS

B. SAR Measurement Results

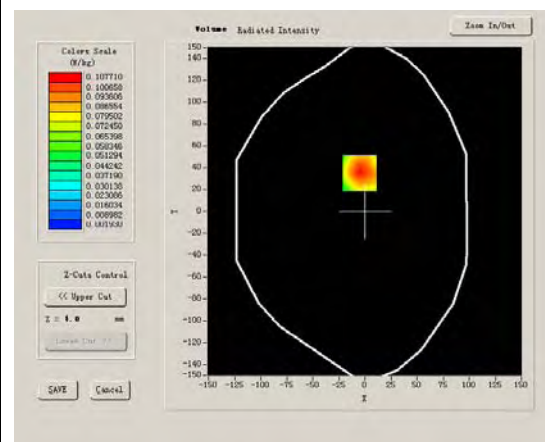
Lower Band SAR (Channel 1)

Frequency (MHz)	2412.000000
Relative permittivity (real part)	38.810001
Relative permittivity	13.500000
Conductivity (S/m)	1.827000
Power drift (%)	-1.710000
Ambient Temperature:	22.0°C
Liquid Temperature:	21.8°C
ConvF:	39.772,33.946,37.835
Crest factor:	1:1

SURFACE SAR



VOLUME SAR



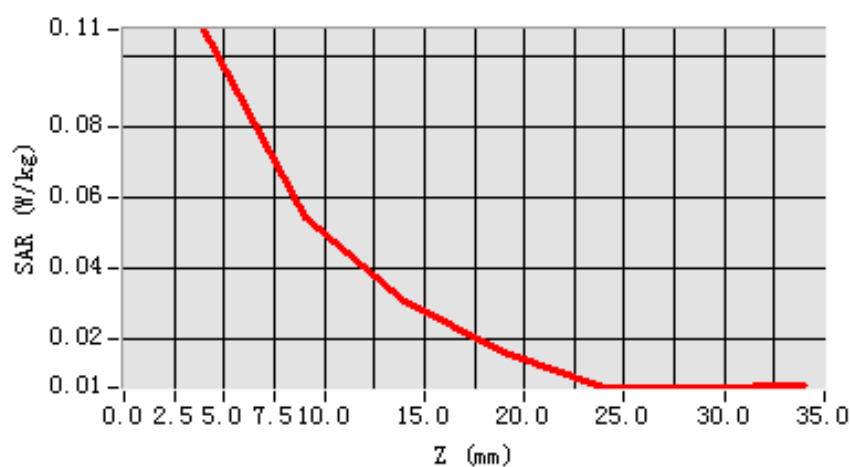
Maximum location: X=-5.00, Y=35.00

SAR 10g (W/Kg)	0.056577
SAR 1g (W/Kg)	0.102899

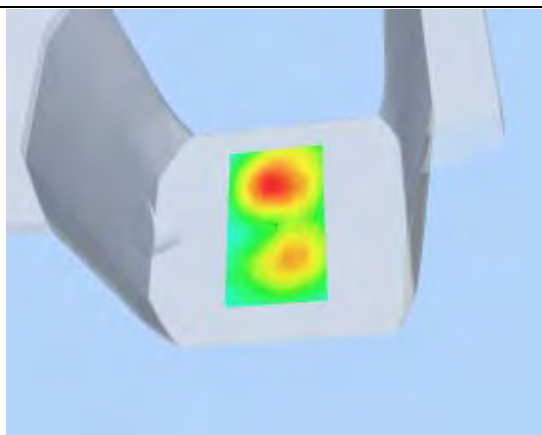
Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	0.1077	0.0547	0.0307	0.0164	0.0062	0.0063

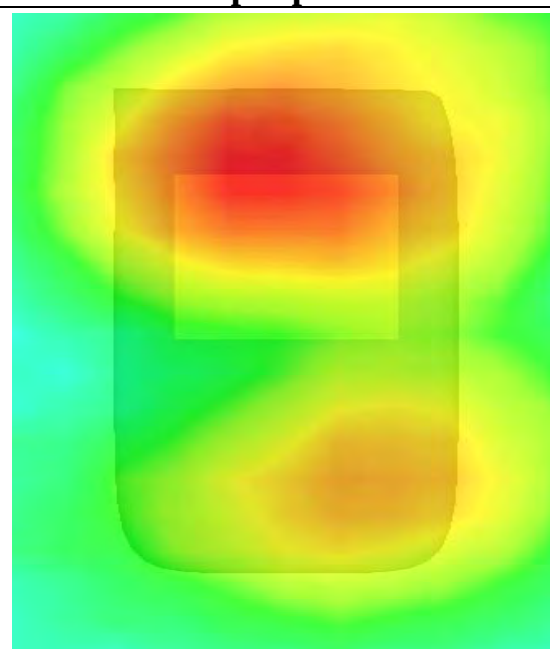
SAR, Z Axis Scan (X = -5, Y = 35)



3D scene shot



Hot spot position



MEASUREMENT 92

Type: Phone measurement (Complete)

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

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

Date of measurement: 12/10/2011

Measurement duration: 9 minutes 5 seconds

A. Experimental conditions.

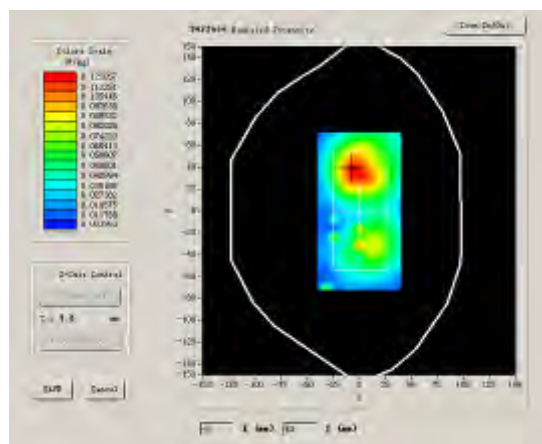
Phantom File	surf_sam_plan.txt
Phantom	Validation plane
Device Position	Body
Band	802.11B
Channels	Middle
Signal	DSSS

B. SAR Measurement Results

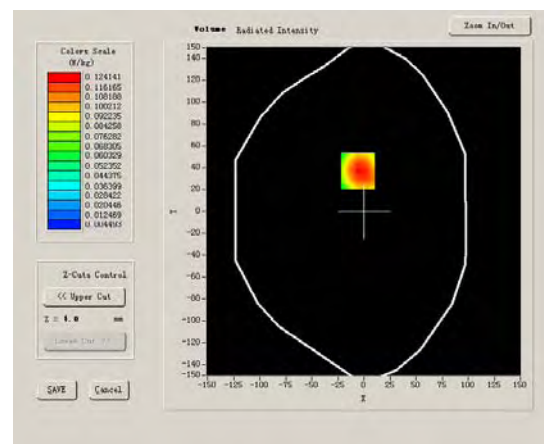
Lower Band SAR (Channel 1)

Frequency (MHz)	2412.000000
Relative permittivity (real part)	38.810001
Relative permittivity	13.500000
Conductivity (S/m)	1.827000
Power drift (%)	-0.190000
Ambient Temperature:	22.0°C
Liquid Temperature:	21.8°C
ConvF:	39.772,33.946,37.835
Crest factor:	1:1

SURFACE SAR



VOLUME SAR



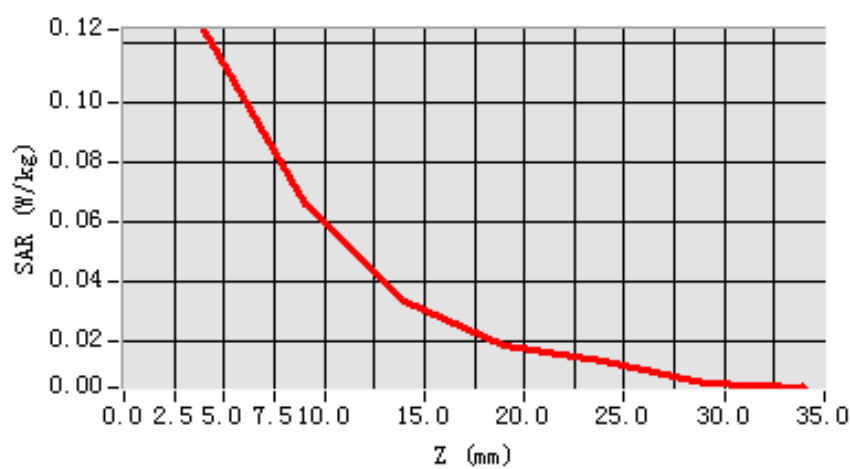
Maximum location: X=-6.00, Y=37.00

SAR 10g (W/Kg)	0.067053
SAR 1g (W/Kg)	0.121509

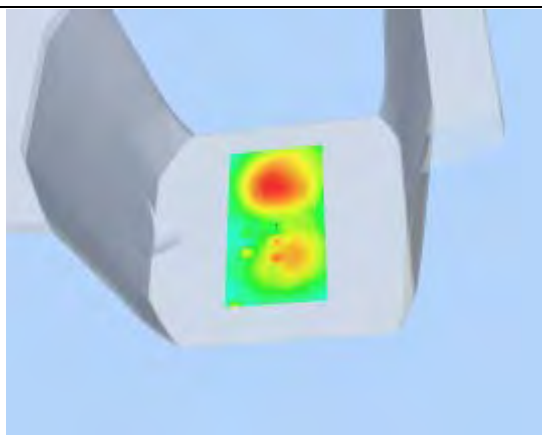
Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	0.1241	0.0661	0.0337	0.0190	0.0134	0.0060

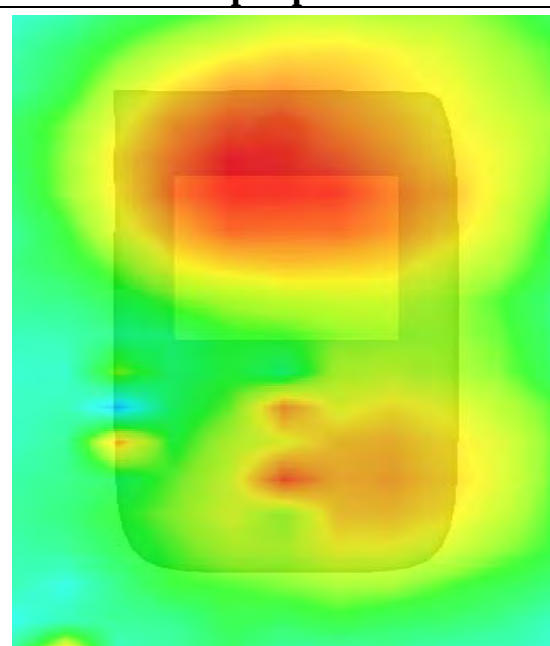
SAR, Z Axis Scan (X = -6, Y = 37)



3D scene shot



Hot spot position



MEASUREMENT 93

Type: Phone measurement (Complete)

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

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

Date of measurement: 12/10/2011

Measurement duration: 9 minutes 7 seconds

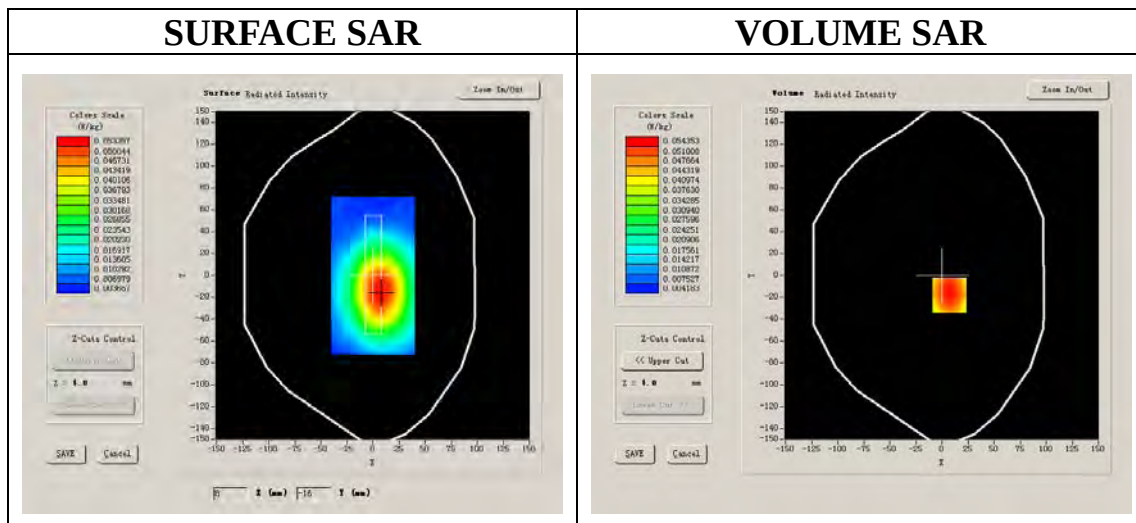
A. Experimental conditions.

Phantom File	surf_sam_plan.txt
Phantom	Validation plane
Device Position	Body
Band	802.11B
Channels	Low
Signal	DSSS

B. SAR Measurement Results

Lower Band SAR (Channel 1):

Frequency (MHz)	2412.000000
Relative permittivity (real part)	54.341000
Relative permittivity	19.120001
Power drift (S/m)	1.952641
Power drift (%)	-3.529999
Ambient Temperature:	22.2°C
Liquid Temperature:	21.8°C
ConvF:	39.772,33.946,37.835
Crest factor:	1:1

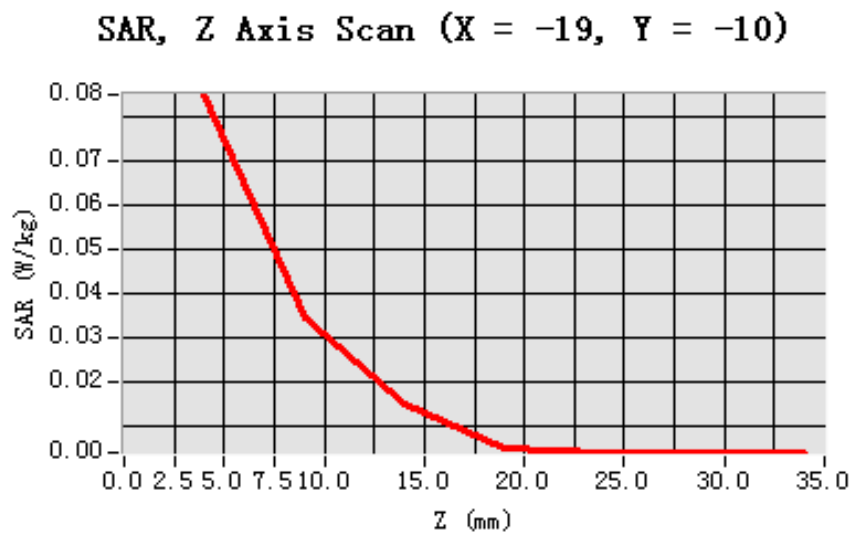


Maximum location: X=-19.00, Y=-10.00

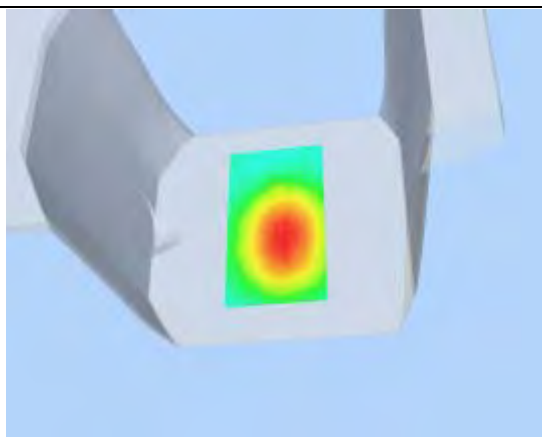
SAR 10g (W/Kg)	0.040635
SAR 1g (W/Kg)	0.081988

Z Axis Scan

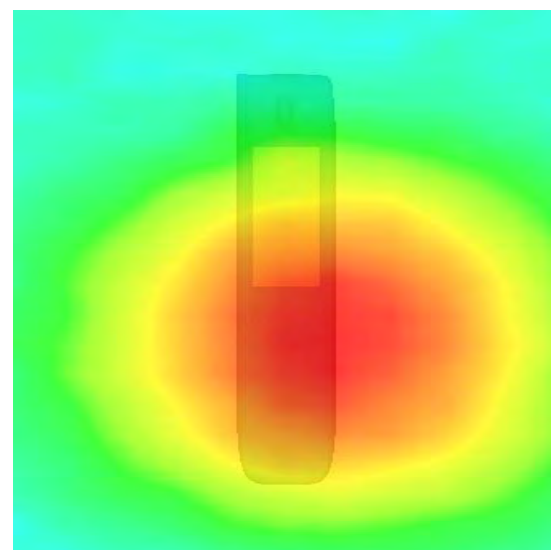
Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	0.0848	0.0345	0.0146	0.0049	0.0039	0.0039



3D scene shot



Hot spot position



System Performance Check Data(835MHz)

Type: Phone measurement (Complete)

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

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

Date of measurement: 12/10/2011

Measurement duration: 13 minutes 27 seconds

A. Experimental conditions.

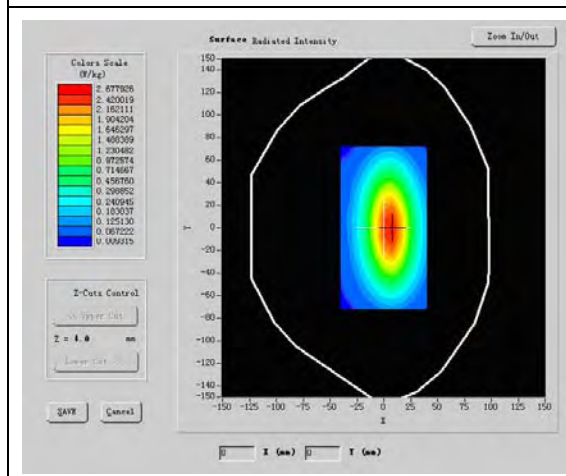
Phantom File	surf_sam_plan.txt
Phantom	Validation plane
Device Position	
Band	835MHz
Channels	
Signal	CW

B. SAR Measurement Results

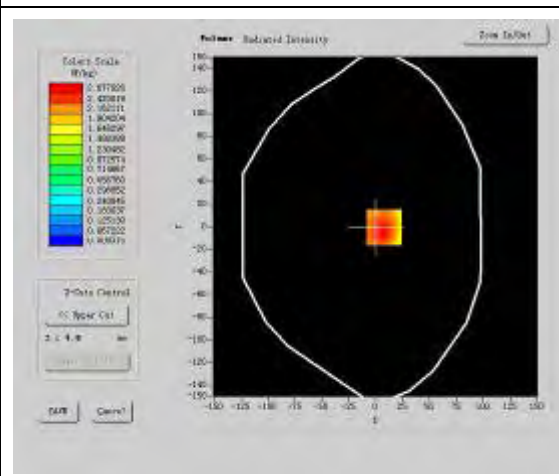
Band SAR

Frequency (MHz)	835.000000
Relative permittivity (real part)	40.490002
Relative permittivity	15.070000
Conductivity (S/m)	0.983918
Power drift (%)	-0.050000
Ambient Temperature:	22.4°C
Liquid Temperature:	21.5°C
ConvF:	28.479,25.214,27.196
Crest factor:	1:1

SURFACE SAR



VOLUME SAR



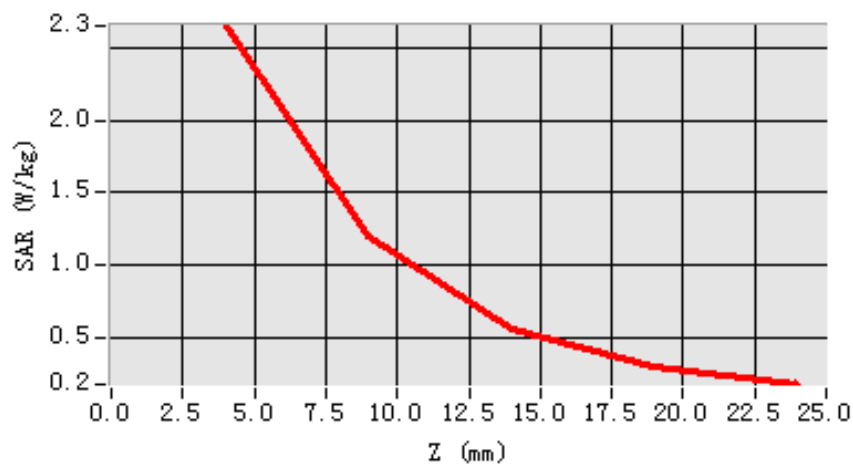
Maximum location: X=5.00, Y=1.00

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

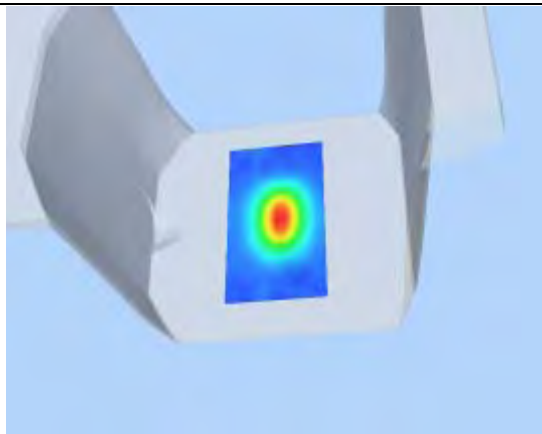
Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	2.2754	1.2251	0.5857	0.3114

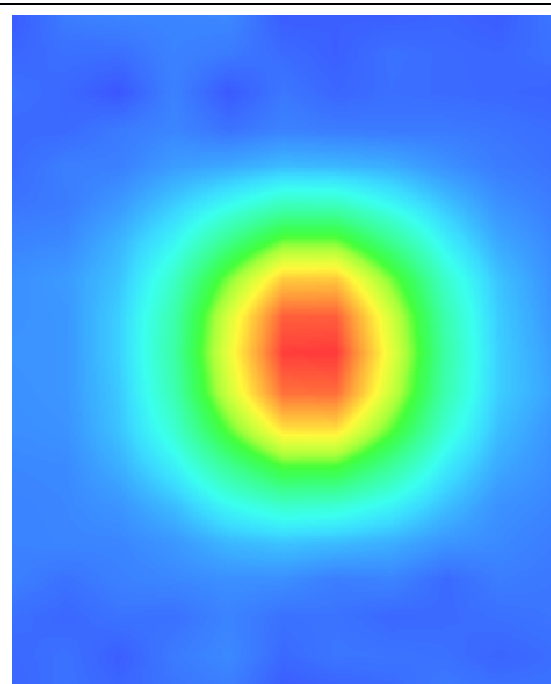
SAR, Z Axis Scan (X = 5, Y = 1)



3D scene shot



Hot spot position



System Performance Check Data(1900MHz)

Type: Phone measurement (Complete)

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

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

Date of measurement: 12/10/2011

Measurement duration: 13 minutes 27 seconds

A. Experimental conditions.

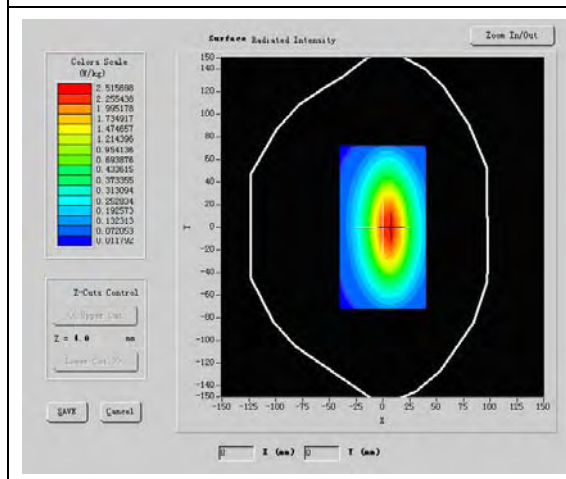
Phantom File	surf_sam_plan.txt
Phantom	Validation plane
Device Position	
Band	1900MHz
Channels	
Signal	CW

B. SAR Measurement Results

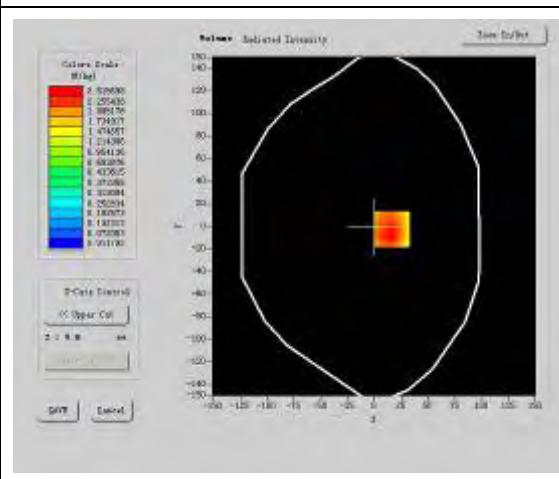
Band SAR

Frequency (MHz)	1900.000000
Relative permittivity (real part)	38.930000
Relative permittivity	15.070000
Conductivity (S/m)	1.321229
Power drift (%)	-0.140000
Ambient Temperature:	22.3°C
Liquid Temperature:	22.6°C
ConvF:	40.136,34.843,38.721
Crest factor:	1:1

SURFACE SAR



VOLUME SAR



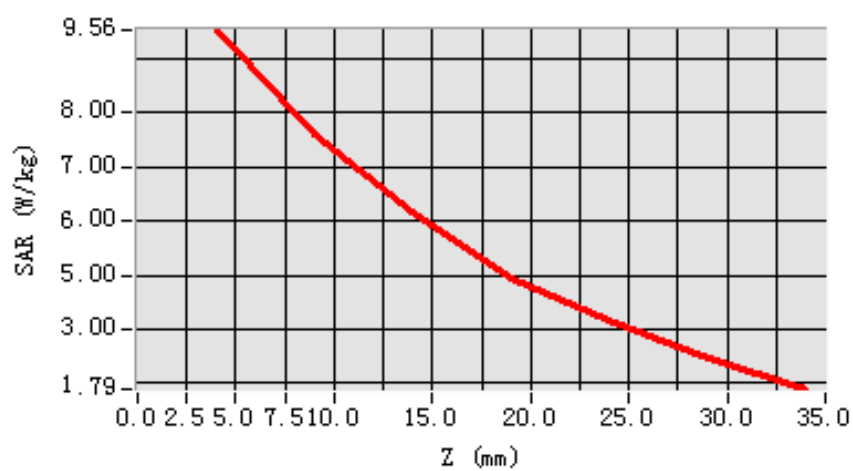
Maximum location: X=-1.00, Y=-50.00

SAR 10g (W/Kg)	4.910003
SAR 1g (W/Kg)	9.555521

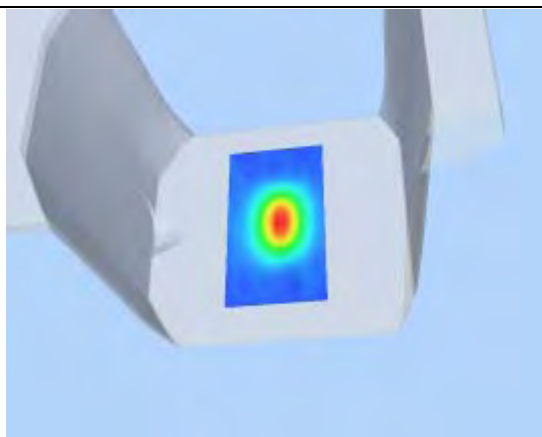
Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	9.5536	5.3061	2.6041	0.3211

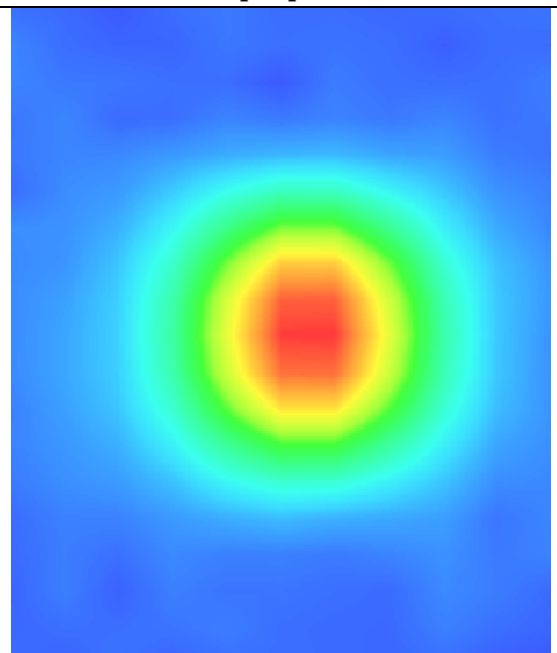
SAR, Z Axis Scan (X = -1, Y = -50)



3D scene shot



Hot spot position



System Performance Check Data(2450MHz)

Type: Phone measurement (Complete)

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

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

Date of measurement: 12/10/2011

Measurement duration: 13 minutes 27 seconds

A. Experimental conditions.

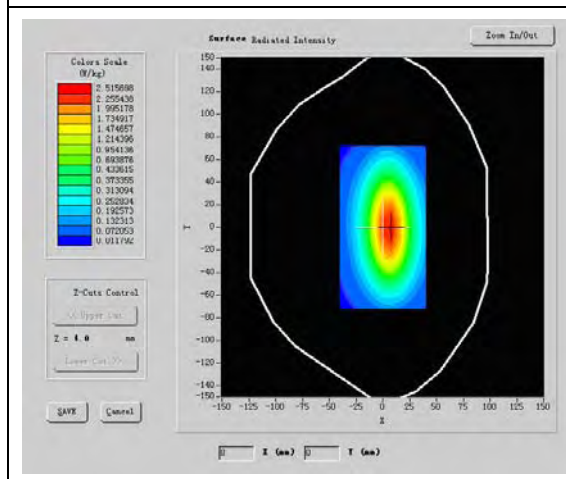
Phantom File	surf_sam_plan.txt
Phantom	Validation plane
Device Position	
Band	2450MHz
Channels	
Signal	CW

B. SAR Measurement Results

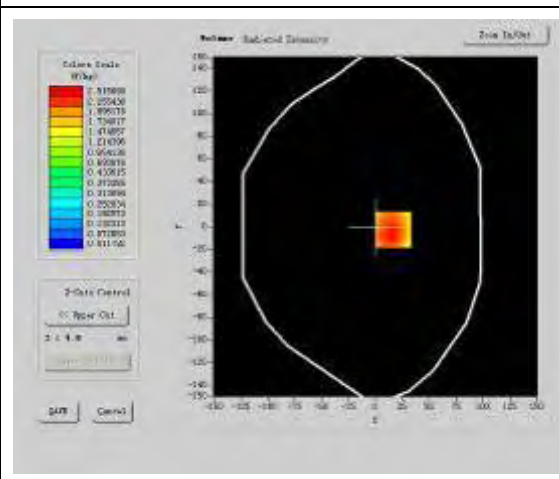
Band SAR

Frequency (MHz)	2450.000000
Relative permittivity (real part)	52..548876
Relative permittivity	12.991650
Conductivity (S/m)	1.770014
Power Drift (%)	-2.180000
Ambient Temperature:	22.0°C
Liquid Temperature:	21.8°C
ConvF:	39.772,33.946,37.835
Crest factor:	1:1

SURFACE SAR



VOLUME SAR



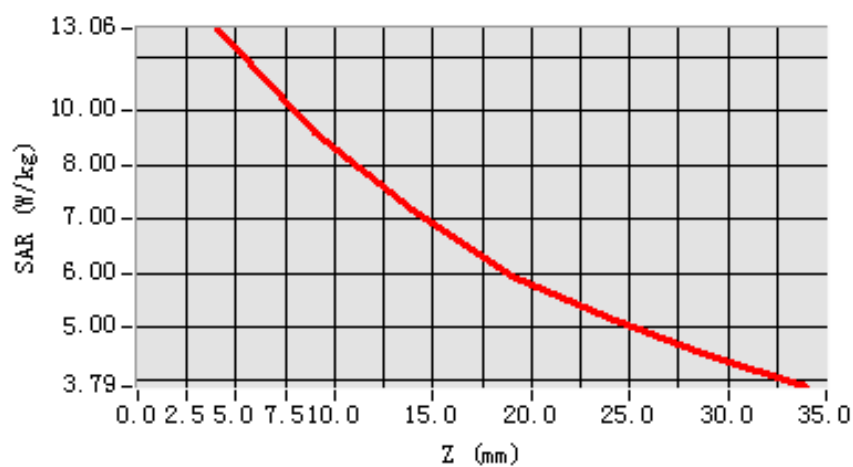
Maximum location: X=-1.00, Y=-50.00

SAR 10g (W/Kg)	6.256773
SAR 1g (W/Kg)	12.899365

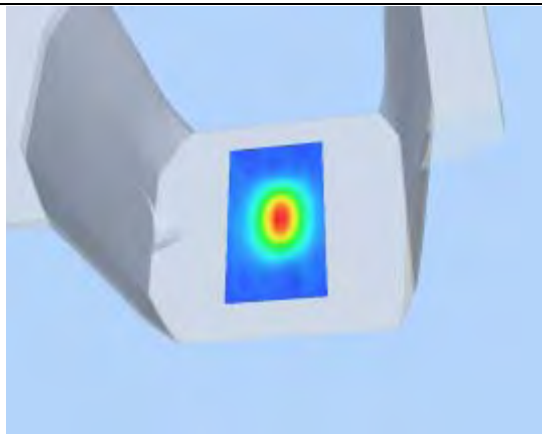
Z Axis Scan

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

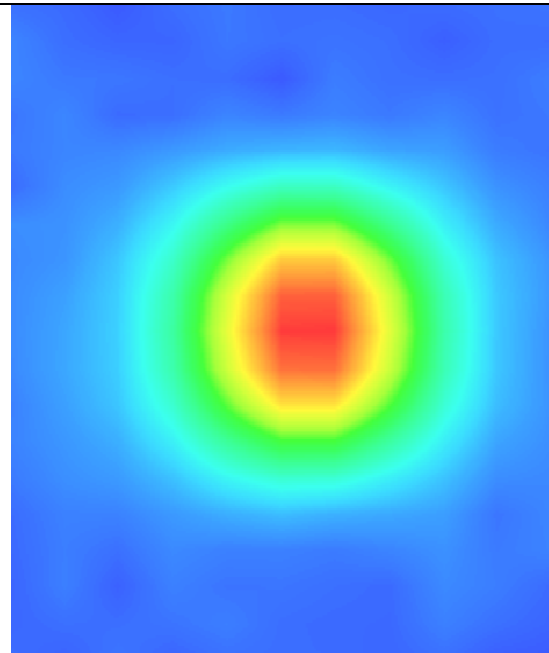
SAR, Z Axis Scan (X = -1, Y = -50)



3D scene shot



Hot spot position



System Performance Check Data(835MHz)

Type: Phone measurement (Complete)

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

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

Date of measurement: 13/10/2011

Measurement duration: 13 minutes 27 seconds

A. Experimental conditions.

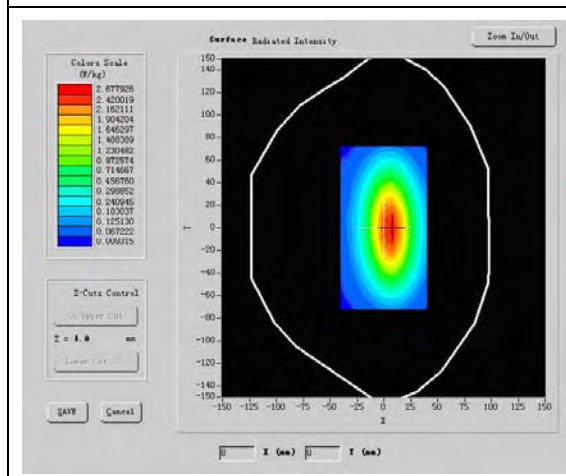
Phantom File	surf_sam_plan.txt
Phantom	Validation plane
Device Position	
Band	835MHz
Channels	
Signal	CW

B. SAR Measurement Results

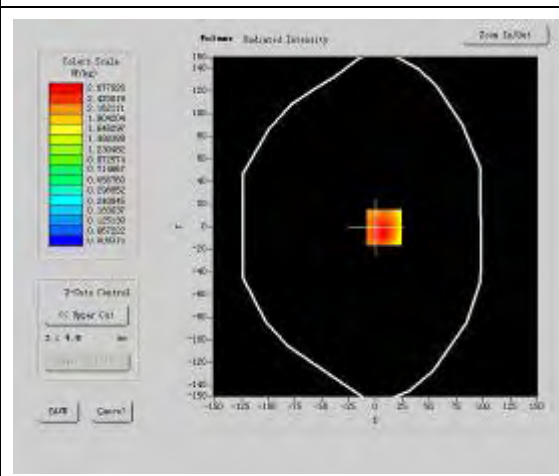
Band SAR

Frequency (MHz)	835.000000
Relative permittivity (real part)	40.490002
Relative permittivity	15.070000
Conductivity (S/m)	0.983918
Power drift (%)	-0.050000
Ambient Temperature:	22.4°C
Liquid Temperature:	21.5°C
ConvF:	28.479,25.214,27.196
Crest factor:	1:1

SURFACE SAR



VOLUME SAR



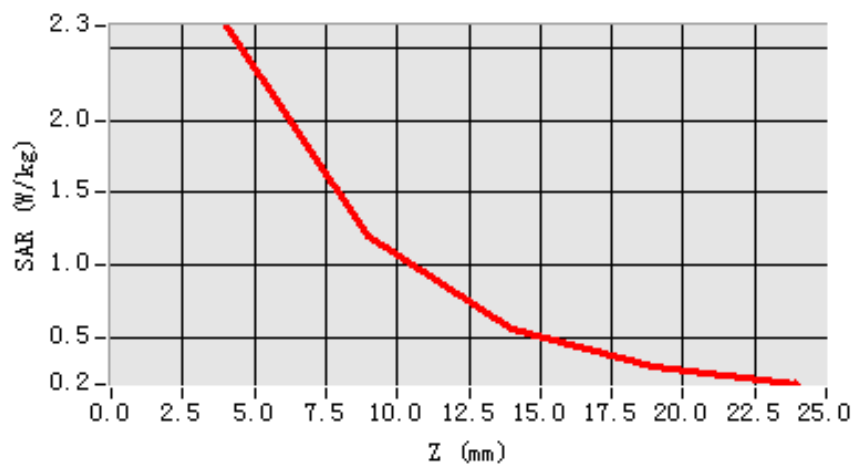
Maximum location: X=5.00, Y=1.00

SAR 10g (W/Kg)	1.624732
SAR 1g (W/Kg)	2.383462

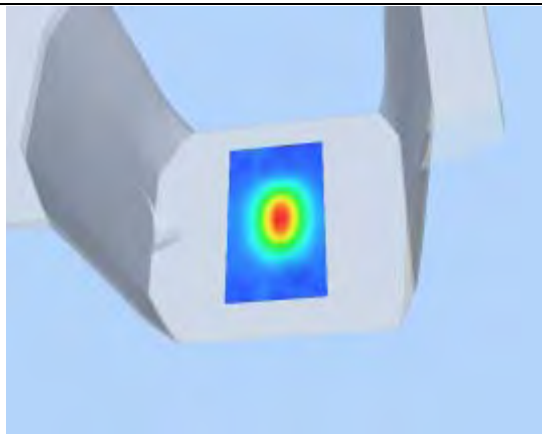
Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	2.2754	1.2251	0.5857	0.3114

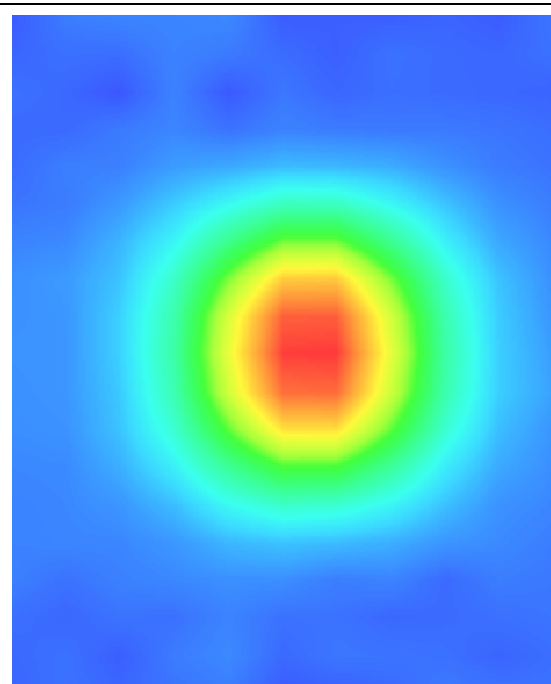
SAR, Z Axis Scan (X = 5, Y = 1)



3D scene shot



Hot spot position



System Performance Check Data(1900MHz)

Type: Phone measurement (Complete)

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

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

Date of measurement: 13/10/2011

Measurement duration: 13 minutes 27 seconds

A. Experimental conditions.

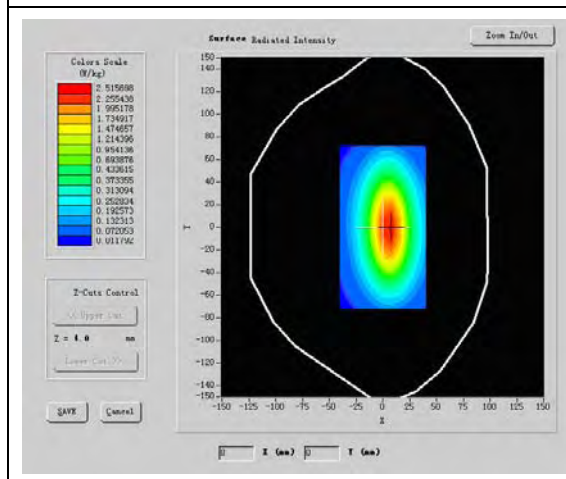
Phantom File	surf_sam_plan.txt
Phantom	Validation plane
Device Position	
Band	1900MHz
Channels	
Signal	CW

B. SAR Measurement Results

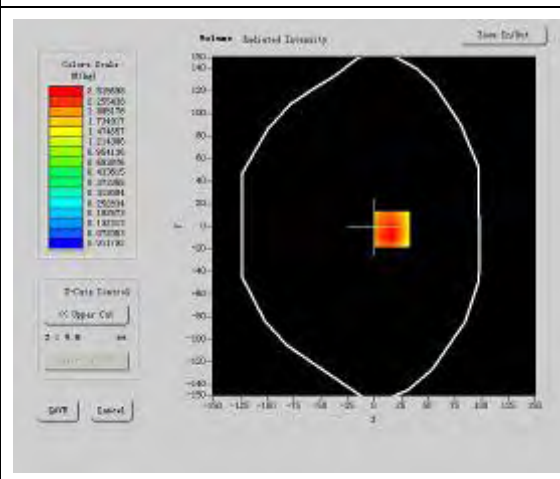
Band SAR

Frequency (MHz)	1900.000000
Relative permittivity (real part)	38.930000
Relative permittivity	15.070000
Conductivity (S/m)	1.321229
Power drift (%)	-0.140000
Ambient Temperature:	22.3°C
Liquid Temperature:	22.6°C
ConvF:	40.136,34.843,38.721
Crest factor:	1:1

SURFACE SAR



VOLUME SAR



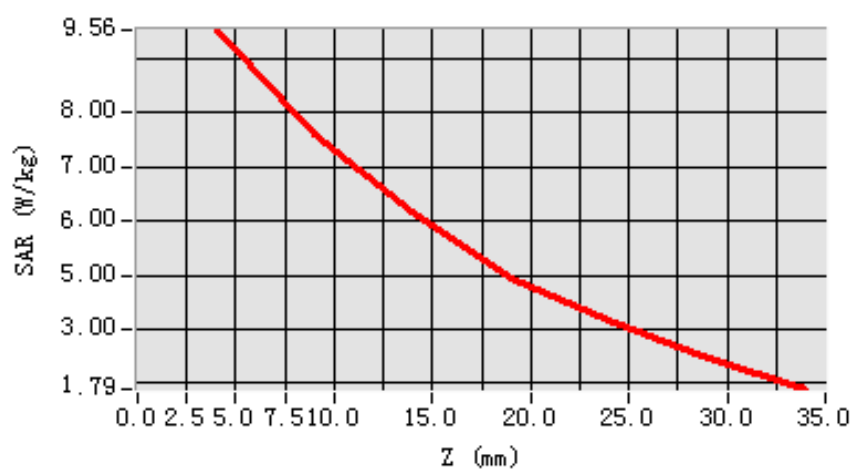
Maximum location: X=-1.00, Y=-50.00

SAR 10g (W/Kg)	4.860503
SAR 1g (W/Kg)	9.066317

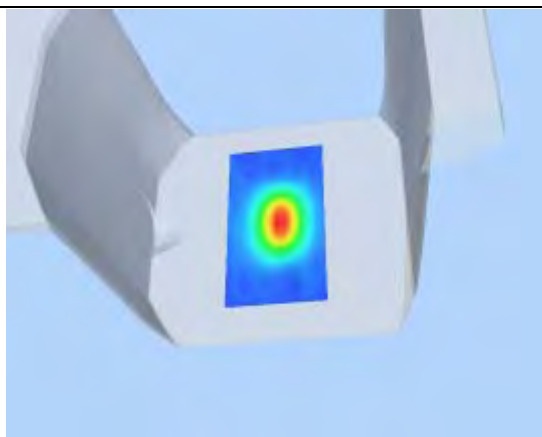
Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	9.3211	5.2051	2.4421	0.3271

SAR, Z Axis Scan (X = -1, Y = -50)



3D scene shot



Hot spot position

