

FCC SAR

TEST REPORT

of

CDMA 1xEV-DO USB Data Modem

Model Name: MV241
Trade Name: Axesstel Inc
Report No.: SZ10070009S01
FCC ID: PH7MV241

prepared for

Axesstel Inc

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prepared by

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CTIA Authorized Test Lab

LAB CODE 20081223-00

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General Information

1.1. Notes

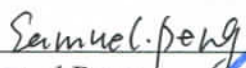
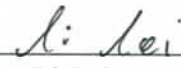
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1.2. Organization item

Report No.:	SZ10070009S01
Date of Issue:	Aug. 25, 2010
Date of Tests:	Aug. 24, 2010 – Aug. 24, 2010
Responsible for Accreditation:	Zeng Dexin
Project Manager:	Li Lei
Deputy Project Manager:	Samuel Peng

1.3. Conclusion

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

 Samuel Peng Tested by (Responsible for the Test Report)		 Li Lei Reviewed by (Verification of the Test Report)
	 Zeng Dexin Approved by (Responsible Test Lab Manager)	

2. Testing Laboratory

2.1. Identification of the Responsible Testing Laboratory

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

2.2. Identification of the Responsible Testing Location

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

2.3. Accreditation Certificate

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

2.4. List of Test Equipments

No.	Instrument	Type	Cal. Date	Cal. Due
1	PC	Dell (Pentium IV 2.4GHz, SN:X10-23533)		
2	Network Emulator	Rohde&Schwarz (CMU200, SN:105894)	2009-9-26	1year
3	Voltmeter	Keithley (2000, SN:1000572)	2009-9-24	1year
4	Synthesizer	Rohde&Schwarz (SML_03, SN:101868)	2009-9-24	1year
5	Amplifier	Nucl udes (ALB216, SN:10800)	2009-9-24	1year
6	Power Meter	Rohde&Schwarz (NRVD, SN:101066)	2009-9-24	1year
7	Probe	Antennessa (SN:SN_3708_EP80)	2009-9-24	1year
8	Phantom	Antennessa (SN:SN_36_08_SAM62)	2009-9-24	1year
9	Liquid	Antennessa (Last Calibration:21 08 08)	2009-8-21	1year

3. Technical Information

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

3.1. Identification of Applicant

Company Name: Axesstel Inc
Address: 6815 Flanders Drive, #210, San Diego, CA 92121, USA

3.2. Identification of Manufacturer

Company Name: Asiatelco Technologies Co.
Address: #289 Bisheng Rd, Bld-8, 3F, Zhangjiang Hi-Tech Park, Pudong, Shanghai, China

3.3. Equipment Under Test (EUT)

Brand Name: Axesstel Inc
Type Name: Axesstel Inc
Marking Name: MV241
Hardware Version: R890_P2
Software Version: 1.0.3.9
Frequency Bands: CDMA 800MHz (channel 1013:824.70MHz,
channel 384:836.50MHz, Channel 848.30MHz)
CDMA 1900MHz (channel 25:1851.2MHz,
channel 600:1880.00MHz, Channel 1175:1908.8MHz)
Modulation Mode: CDMA
Antenna type: Build inside
Development Stage: Identical prototype

3.3.1. Photographs of the EUT

Please see for photographs of the EUT.

3.3.2. Identification of all used EUTs

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

EUT Identity	Hardware Version	Software Version
1#	R890_P2	1.0.3.9

4. Test Results

4.1. Applied Reference Documents

Leading reference documents for testing:

No.	Identity	Document Title
1	47 CFR § 2. 1093	Radiofrequency Radiation Exposure Evaluation: Portable Devices
2	FCC OET 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.

4.2. Test Environment/Conditions

Normal Temperature (NT):	20 ... 25 °C
Relative Humidity:	30 ... 75 %
Air Pressure:	980 ... 1020 hPa
Details of Power Supply:	DC 5V/500mA
Extreme Temperature:	Low Temperature (LT) = -20°C
	High Temperature (HT) = 55°C
Extreme Voltage of the EUT:	Normal Voltage (NV) = 5.00V
Test frequency:	CDMA 800MHz
	CDMA 1900MHz
Operation mode:	Call established
Power Level:	Maximum output power

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

The Absolute Radio Frequency Channel Number (ARFCN) 1013, 384 and 777 respectively in the case of CDMA 800MHz or is allocated to 25, 600 and 1175 respectively in the case of CDMA 1900MHz, The EUT is commanded to operate at maximum transmitting power.

The EUT shall use its internal transmitter. The antenna(s), battery and accessories shall be those specified by the manufacturer. The EUT battery must be fully charged and checked periodically during the test to ascertain uniform power output. If a wireless link is used, the antenna connected to the output of the base station simulator shall be placed at least 50 cm away from the handset.

The signal transmitted by the simulator to the antenna feeding point shall be lower than the output power level of the handset by at least 35 dB.

4.3.Operational Conditions During Test

4.3.1. Informations On The Testing

I. INFORMATIONS ON THE TESTING

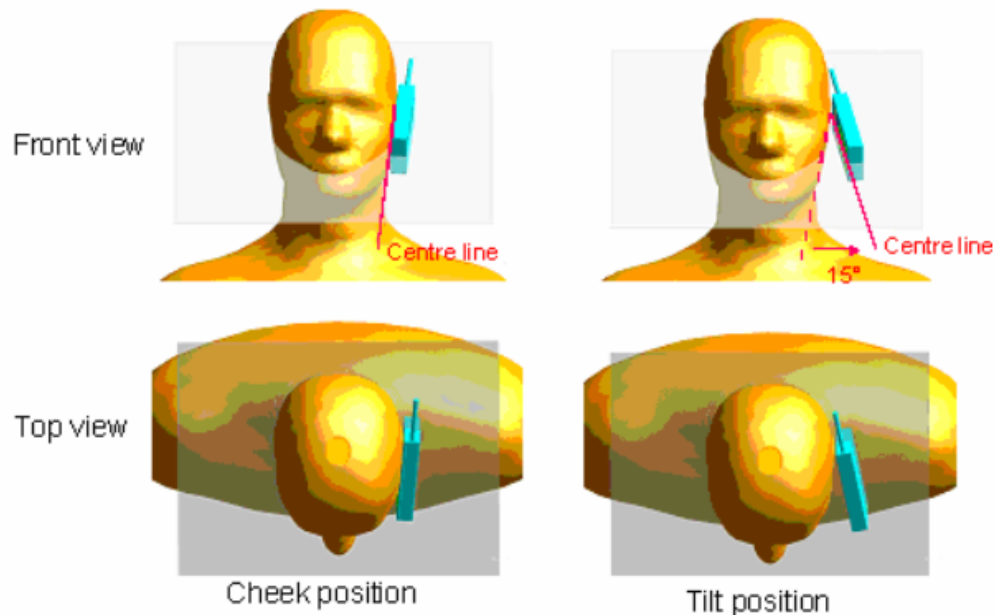
I.1. Normative reference

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

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

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

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



Description of the « cheek » position:

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

Description of the « tilted » position:

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

4.3.2. The Measurement System

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

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

The following figure shows the system.



COMOSAR bench

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

II.1. Phantom

For the measurements the Specific Anthropomorphic Mannequin (SAM) defined by the IEEE SCC-34/SC2 group is used. The phantom is a polyurethane shell integrated in a wooden table. The thickness of the phantom amounts to 2 mm +/- 0,2 mm. It enables the dosimetric evaluation of left and right hand phone usage and includes an additional flat phantom part for the simplified performance check. The phantom set-up includes a cover, which prevents the evaporation of the liquid.

II.2. Probe

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

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

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

II.3. Measurement procedure

The following steps are used for each test position

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

II.4 Description of interpolation/extrapolation scheme

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

An extrapolation is using to determinate this highest local SAR values. The extrapolation is based on a fourth-order least-square polynomial fit of measured data. The local SAR value is then extrapolated from the liquid surface with a 1 mm step.

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

4.3.3. Uncertainty Assessment

The following table includes the uncertainty table of the IEEE 1528.

The values are determined by Antennessa.

a	b	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 (+-%)	Vi
Measurement System									
Probe calibration	E.2.1	7.0	N	1	1	1	7.00	7.00	∞
Axial Isotropy	E.2.2	2.5	R	$\sqrt{3}$	$(1-C_p)^{1/2}$	$(1-C_p)^{1/2}$	1.02	1.02	∞
Hemispherical Isotropy	E.2.2	4.0	R	$\sqrt{3}$	$\sqrt{C_n}$	$\sqrt{C_n}$	1.63	1.63	∞
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 Variation - SAR drift measurement	6.6.2	4.76	R	$\sqrt{3}$	1	1	2.75	2.75	∞
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	0.57	R	$\sqrt{3}$	0.64	0.43	0.21	0.14	∞

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	3.66	R	$\sqrt{3}$	0.6	0.49	1.27	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				11.28	10.78	
Expanded Uncertainty (95% Confidence interval)			k				21.99	21.03	

4.3.4. Equipments and results of validation testing

Equipments :

name	Type and specification
Signal generator	E4433B
Directional coupler	450MHz-3GHz
Amplifier	3W 502(10-2500MHz)
Reference dipole	835MHz:SN 36/08 DIP C99 1800MHz:SN 36/08 DIP F101

Results:

Frequency	Target value (1g)	250 mW input power	Test value (1g)
835MHz	9.8 W/Kg	2.48 W/Kg (body)	9.92 W/Kg (body)
1800MHz	39.32 W/Kg	9.87 W/Kg (body)	39.48 W/Kg (body)

Note:Please refer to check the system performance data, the first 112-117 page.

4.3.5. Dielectric Performance

The measured 1-gram averaged SAR values of the device against the head and the body are provided in Tables 1 and 2 respectively. The humidity and ambient temperature of test facility were 54% ~60% and 23.0 °C ~23.8°C respectively. The SAM head phantom (SN 0381 SH) were full of the head tissue simulating liquid. The depth of the body tissue was 15.1cm. The distance between the back of the device and the bottom of the flat phantom is 1.5cm (taking into account of the IEEE 1528 and the place of the antenna). A base station simulator was used to control the device during the SAR measurement. The phone was supplied with full-charged battery for each measurement.

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

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

Table 1: 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 (Aug. 24)	835 MHz	54.116001	0.989164
Target value	1900 MHz	53.3	1.52
Validation value (Aug. 24)	1900 MHz	51.903000	1.486632

4.3.6. Simulant liquids

Simulant liquids that are used for testing at frequencies of CDMA 800MHz or CDMA 1900MHz, which are made mainly of sugar, salt and water solutions may be left in the phantoms. Approximately 20litres are needed for an upright head compared to about 20litres for a horizontal bath phantom.

Ingredients (% by weight)	Frequency Band		Frequency Band	
	835MHz		1900MHz	
Tissue Type	Head	Body	Head	Body
Water	41.45	52.4	55.36	40.4
Salt(NaCl)	1.45	1.4	0.35	0.5
Sugar	56.0	45.0	30.45	58.0
HEC	1.0	1.0	0.0	1.0
Bactericide	0.1	0.1	0.0	0.1
Triton	0.0	0.0	0.0	0.0
DGBE	0.0	0.0	13.84	0.0
Acticide SPX	0.0	0.0	0.0	0.0
Dielectric Constant	42.45	56.1	41.00	54.0
Conductivity (S/m)	0.91	0.95	0.38	1.45

4.4. MEASUREMENT PROCEDURES

4.4.1. Procedures Used To Establish Test Signal

The device was placed into a simulated call using a base station in a screen room. Such test signals offer a consistent means for testing SAR and recommended for evaluating SAR. 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.

4.4.2 SAR Measurement Conditions for CDMA2000 1x

These procedures were followed according to FCC "SAR Measurement Procedures for 3G Devices", October 2007 (Revised).

4.4.2.1 Output Power Verification

See 3GPP2 C.S0011/TIA-98-E as recommended by "SAR Measurement Procedures for 3G Devices", October 2007 (Revised).

Maximum output power is verified on the High, Middle and Low channels according to procedures in section 3.1.2.3.4 of 3GPP2 C.S0033-0/TIA-866 for Rev. 0 and section 4.3.4 of 3GPP2 C.S0033-A for Rev. A. For Rev. A, maximum output power for both Subtype 0/1 and Subtype 2 Physical Layer configurations should be measured. The device operating configurations under TAP/ETAP should be documented in the test report; including power control, code channel and RF channel output power levels. The measurement results should be tabulated in the SAR report with any measurement difficulties and equipment limitations clearly identified.

4.4.2.2 SAR Measurement

SAR is measured using FTAP/RTAP and FETAP/RETAP respectively for Rev. 0 and Rev. A devices. The AT is tested with a Reverse Data Channel rate of 153.6 kbps in Subtype 0/1 Physical Layer configurations; and a Reverse Data Channel payload size of 4096 bits and Termination Target of 16 slots in Subtype 2 Physical Layer configurations. Both FTAP and FETAP are configured with a Forward Traffic Channel data rate corresponding to the 2-slot version of 307.2 kbps with the ACK Channel transmitting in all slots. AT power control should be in "All Bits Up" conditions for TAP/ETAP.

Body SAR is measured using Subtype 0/1 Physical Layer configurations for Rev. 0. SAR for Subtype 2 Physical layer configurations is not required for Rev. A when the maximum average output of each RF channels is less than that measured in Subtype 0/1 Physical layer configurations. Otherwise, SAR is measured on the maximum output channel for Rev. A using the exposure configuration that results in the highest SAR for that RF channels in Rev. 0.17 Head SAR is required for Ev-Do devices that support operations next to the ear; for

example, with VOIP, using Subtype 2 Physical Layer configurations according to the required handset configurations.

4.4.2.3 1x RTT Support

For Ev-Do devices that also support 1x RTT voice and/or data operations, SAR is not required for 1x RTT when the maximum average output of each channel is less than ¼ dB higher than that measured in Subtype 0/1 Physical Layer configurations for Rev. 0. Otherwise, the ‘Body SAR Measurements’ procedures in the ‘CDMA 2000 1x Handsets’ section should be applied.

4.4.2.4 Output Power Verification 1x RTT

Maximum output power is verified on the High, Middle, and Low channels according to procedures in Section 4.4.5.2 of 3 GPP2 C.S0011/TIA-98-E. Results for at least steps 3,4 and 10 of the power measurement procedures should be tabulated in the SAR report. Steps 3 and 4 should be measured using SO55 with power control bits in “All Up” condition. TDSO/SO32 may be used instead of SO55 for step 4. Step 10 should be measured using TDSO/SO32 with power control bits in the “Bits Hold”

1xRTT Power Measurements

Channel	Radio Configuration and conducted Power (dBm)		
	RC1	RC2	RC3
1013	22.90	22.78	22.87
384	24.16	23.89	23.91
777	23.45	23.43	23.38
25	23.55	23.50	23.49
600	24.38	24.34	24.32
1175	23.59	23.53	23.49
SO	SO2	SO9	SO55

EvDo Rev A Power Measurements

1x EvDo Rev.A Type 0 [dBm] – FTAP rate = 2 Slot Version 307.2kbps						
	RTAP Rate	9.6kbps	38.4 kbps	153.6 kbps	128 kbps	2048 kbps
Band	Channel					
Cellular	1013	22.77	22.89	22.82	22.82	22.86
	384	23.81	23.92	23.96	23.92	23.87
	777	23.33	23.37	23.41	23.37	23.32
PCS	25	23.48	23.51	23.52	23.51	23.55
	600	24.37	24.32	24.29	24.34	24.35
	1175	23.59	23.47	23.47	23.59	23.53

Power Control was set in ‘All Bits Up’ for all measurements.

4.5. Items used in the Test Results List

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

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

4.6. Test Results List

Summary of Measurement Results (CDMA 800MHz Band)

SAR Values (CDMA 800MHz Band), Measured against the body.

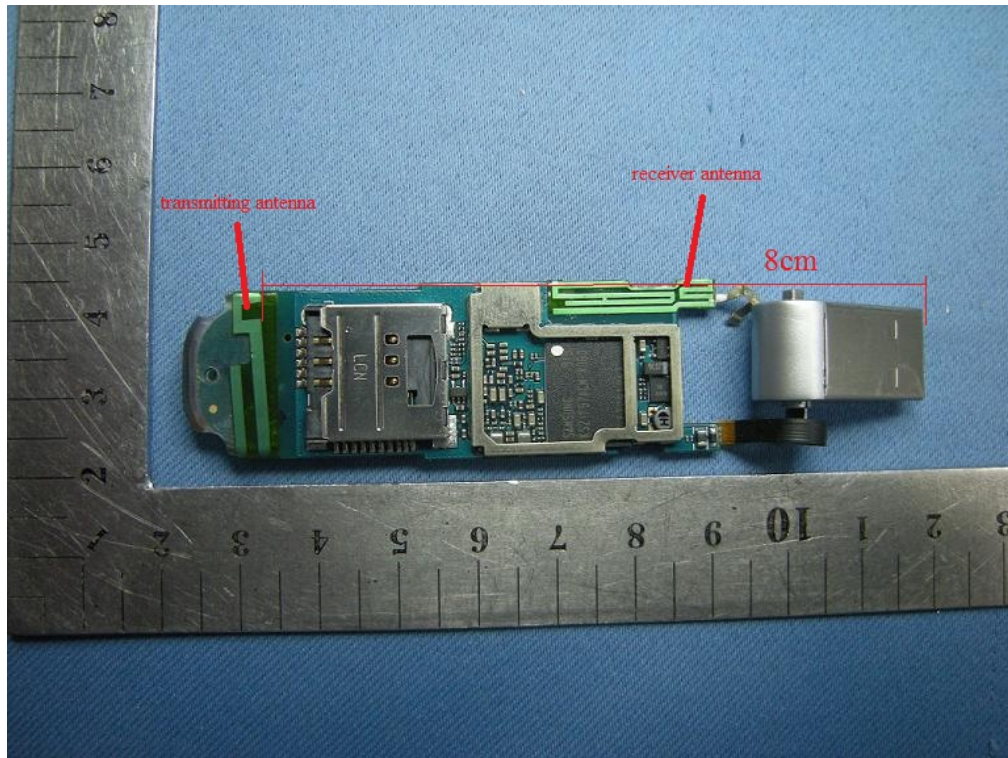
Temperature: 23.0~23.8°C, humidity: 54~60%.		
Limit of SAR (W/kg)	1 g Average	
	1.6	
Test Case	Measurement Result (W/kg)	
	1 g Average (W/kg)	Power level (dBm)
Validation Plane with Body device position on Low Channel in CDMA mode (Horizontal-Up)	0.623	22.90
Validation Plane with Body device position on Middle Channel in CDMA mode (Horizontal-Up)	0.957	24.16
Validation Plane with Body device position on High Channel in CDMA mode (Horizontal-Up)	0.784	23.45
Validation Plane with Body device position on Low Channel in CDMA mode (Horizontal-Down)	0.793	22.90
Validation Plane with Body device position on Middle Channel in CDMA mode (Horizontal-Down)	1.036	24.16
Validation Plane with Body device position on High Channel in CDMA mode (Horizontal-Down)	0.994	23.45
Validation Plane with Body device position on Low Channel in CDMA mode (Vertical-Front)	0.252	22.90
Validation Plane with Body device position on Middle Channel in CDMA mode (Vertical-Front)	0.483	24.16
Validation Plane with Body device position on High Channel in CDMA mode (Vertical-Front)	0.388	23.45
Validation Plane with Body device position on Low Channel in CDMA mode (Vertical-Back)	0.227	22.90
Validation Plane with Body device position on Middle Channel in CDMA mode (Vertical-Back)	0.373	24.16
Validation Plane with Body device position on High Channel in CDMA mode (Vertical-Back)	0.332	23.45
Validation Plane with Body device position on Middle Channel in CDMA mode with EVDO (Horizontal-Up)	0.964	24.16
Validation Plane with Body device position on High Channel in CDMA mode (tip upward)	0.351	24.16

Summary of Measurement Results (CDMA 1900MHz Band)
SAR Values (CDMA1900MHz Band), Measured against the body.

Temperature: 23.0~23.8°C, humidity: 54~60%.		
Limit of SAR (W/kg)	1 g Average	
	1.6	
Test Case	Measurement Result (W/kg)	
	1 g Average (W/kg)	Power level (dBm)
Validation Plane with Body device position on Low Channel in CDMA mode (Horizontal-Up)	0.851	23.55
Validation Plane with Body device position on Middle Channel in CDMA mode (Horizontal-Up)	0.982	24.38
Validation Plane with Body device position on High Channel in CDMA mode (Horizontal-Up)	0.893	23.59
Validation Plane with Body device position on Low Channel in CDMA mode (Horizontal-Down)	0.994	23.55
Validation Plane with Body device position on Middle Channel in CDMA mode (Horizontal-Down)	1.142	24.38
Validation Plane with Body device position on High Channel in CDMA mode (Horizontal-Down)	1.046	23.59
Validation Plane with Body device position on Low Channel in CDMA mode (Vertical-Front)	0.684	23.55
Validation Plane with Body device position on Middle Channel in CDMA mode (Vertical-Front)	0.789	24.38
Validation Plane with Body device position on High Channel in CDMA mode (Vertical-Front)	0.690	23.59
Validation Plane with Body device position on Low Channel in CDMA mode (Vertical-Back)	0.563	23.55
Validation Plane with Body device position on Middle Channel in CDMA mode (Vertical-Back)	0.634	24.38
Validation Plane with Body device position on High Channel in CDMA mode (Vertical-Back)	0.611	23.59
Validation Plane with Body device position on Middle Channel in CDMA mode with EVDO (Horizontal-Down)	1.009	24.38
Validation Plane with Body device position on High Channel in CDMA mode (tip upward)	0.573	24.38

Note: 1.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 5mm (taking into account of the IEEE 1528 and the place of the antenna)。

2. The separation distance is determined according to FCC KDB 447498 D01 Section 2(b)(ii)(1) states, the SAR value of 5mm distance is less than 50% of initial touching position.



3. Antenna location away from the USB port to 8cm.

Annex A Accreditation Certificate

China National Accreditation Service for Conformity Assessment

LABORATORY ACCREDITATION CERTIFICATE

(No. CNAS L1659)

China National Accreditation Service for Conformity Assessment has accredited

Shenzhen Electronic Product Quality Testing Center
Electronic Testing Building, Shahe Road, Xili, Nanshan District,
Shenzhen, Guangdong, China

to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories(CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing and calibration.

The scope of accreditation is detailed in the attached schedule bearing the same accreditation number as above. The schedule forms an integral part of this certificate.

Date of Issue: 2009-09-29
Date of Expiry: 2012-09-28
Date of Initial Accreditation: 1999-08-03



Signed on behalf of China National Accreditation Service
for Conformity Assessment

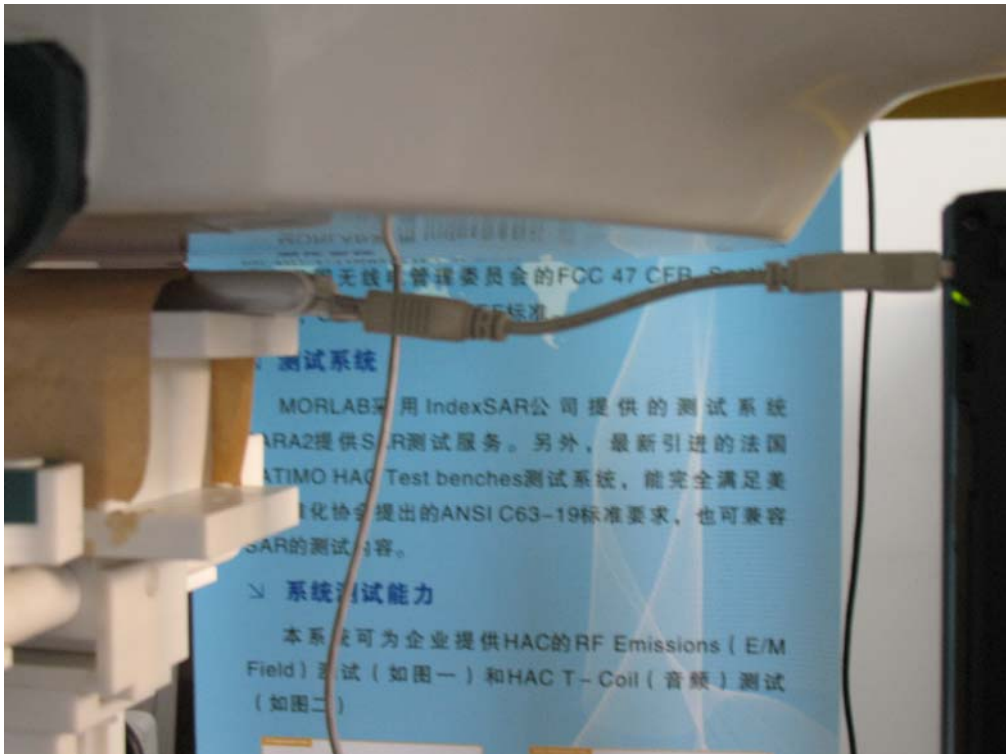
China National Accreditation Service for Conformity Assessment(CNAS) is authorized by Certification and Accreditation Administration of the People's Republic of China (CNCA) to operate the national accreditation systems for conformity assessment. CNAS is the signatory to International Laboratory Accreditation Cooperation Multilateral Recognition Arrangement (ILAC MRA), and the signatory to Asia Pacific Laboratory Accreditation Cooperation Multilateral Recognition Arrangement (APLAC MRA).

Annex B Photographs of the EUT

1 EUT Horizontal-Up(PC:IBM T42)



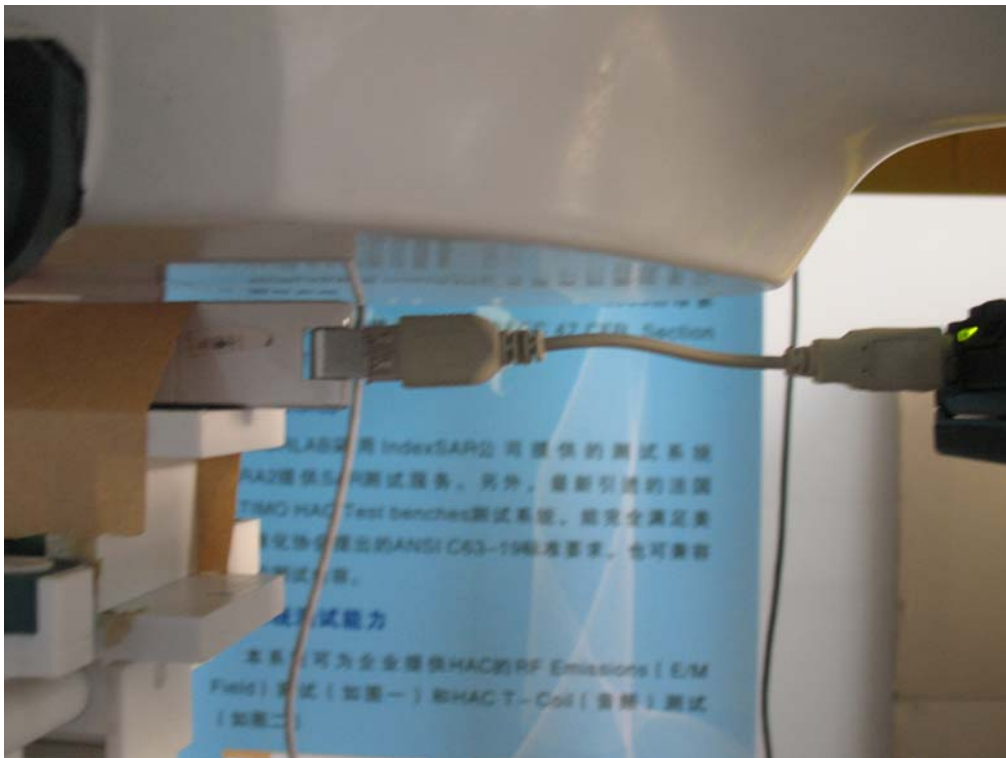
2 EUT Horizontal-Down



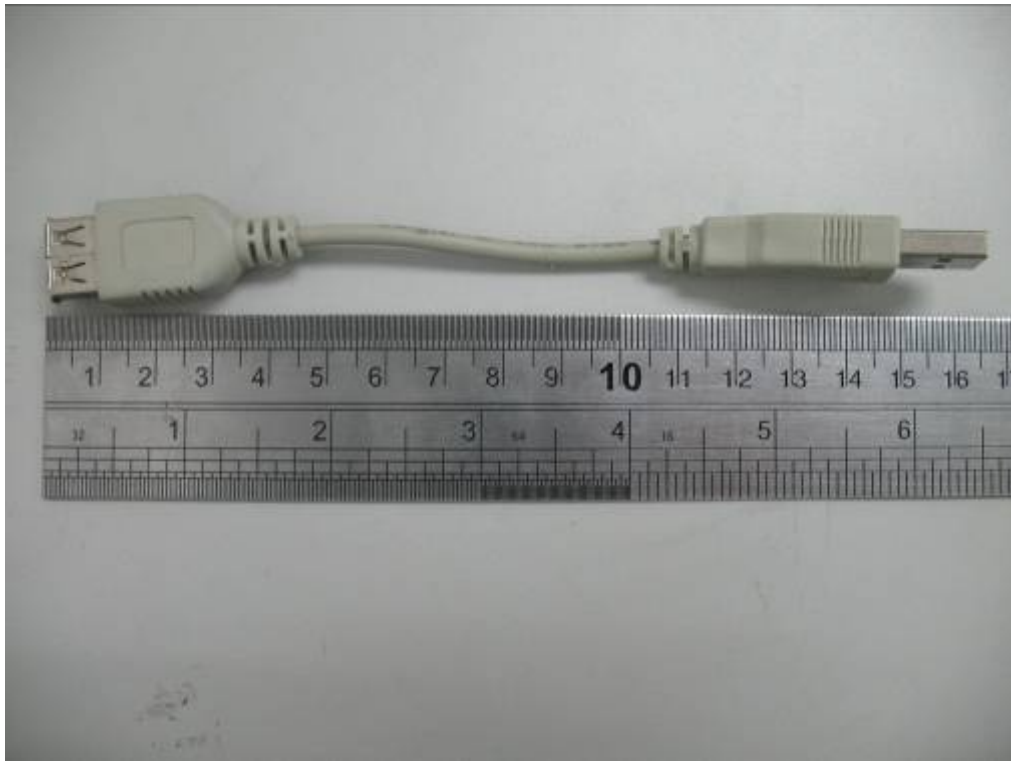
3 EUT Vertical-Front(PC:IBM T20)



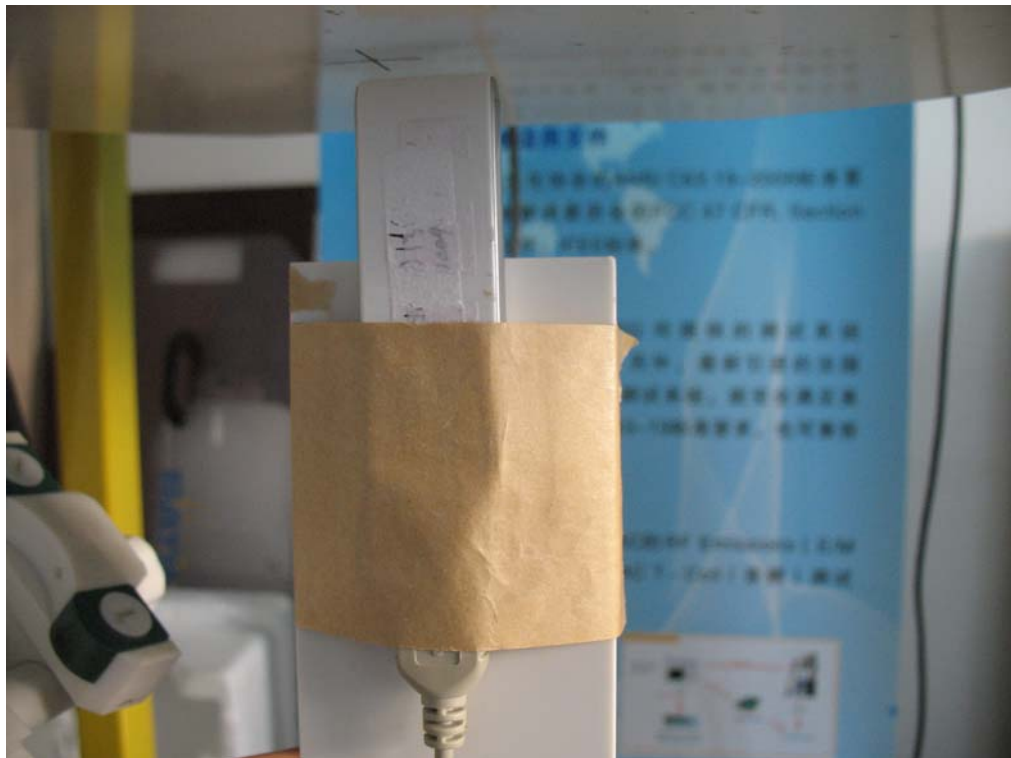
4 EUT Vertical-Back



5 Data line



6 tip upward



Annex C Graph Test Results

<u>TYPE</u>	<u>BAND</u>	<u>PARAMETERS</u>
	CDMA800	Measurement 1: Validation Plane with Body device position on Low Channel in CDMA mode (Horizontal-Up) Measurement 2: Validation Plane with Body device position on Middle Channel in CDMA mode (Horizontal-Up) Measurement 3: Validation Plane with Body device position on High Channel in CDMA mode (Horizontal-Up) Measurement 4: Validation Plane with Body device position on Low Channel in CDMA mode (Horizontal-Down) Measurement 5: Validation Plane with Body device position on Middle Channel in CDMA mode (Horizontal-Down) Measurement 6: Validation Plane with Body device position on High Channel in CDMA mode (Horizontal-Down) Measurement 7: Validation Plane with Body device position on Low Channel in CDMA mode (Vertical-Front) Measurement 8: Validation Plane with Body device position on Middle Channel in CDMA mode (Vertical-Front) Measurement 9: Validation Plane with Body device position on High Channel in CDMA mode (Vertical-Front) Measurement 10: Validation Plane with Body device position on Low Channel in CDMA mode (Vertical-Back) Measurement 11: Validation Plane with Body device position on Middle Channel in CDMA mode (Vertical-Back) Measurement 12: Validation Plane with Body device position on High Channel in CDMA mode (Vertical-Back) Measurement 13: Validation Plane with Body device

		position on High Channel in EVDO mode (Horizontal-Up) Measurement 14: Validation Plane with Body device position on High Channel in CDMA mode (tip upward)
	CDMA1900	Measurement 15: Validation Plane with Body device position on Low Channel in CDMA mode (Horizontal-Up) Measurement 16: Validation Plane with Body device position on Middle Channel in CDMA mode (Horizontal-Up) Measurement 17: Validation Plane with Body device position on High Channel in CDMA mode (Horizontal-Up) Measurement 18: Validation Plane with Body device position on Low Channel in CDMA mode (Horizontal-Down) Measurement 19: Validation Plane with Body device position on Middle Channel in CDMA mode (Horizontal-Down) Measurement 20: Validation Plane with Body device position on High Channel in CDMA mode (Horizontal-Down) Measurement 21: Validation Plane with Body device position on Low Channel in CDMA mode (Vertical-Front) Measurement 22: Validation Plane with Body device position on Middle Channel in CDMA mode (Vertical-Front) Measurement 23: Validation Plane with Body device position on High Channel in CDMA mode (Vertical-Front) Measurement 24: Validation Plane with Body device position on Low Channel in CDMA mode (Vertical-Back) Measurement 25: Validation Plane with Body device position on Middle Channel in CDMA mode (Vertical-Back) Measurement 26: Validation Plane with Body device position on High Channel in CDMA mode (Vertical-Back)

		Measurement 27: Validation Plane with Body device position on High Channel in EVDO mode (Horizontal-Up) Measurement 28: Validation Plane with Body device position on High Channel in EVDO mode (tip upward)
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MEASUREMENT 1

Type: Phone measurement (Complete)

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

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

Date of measurement: 24/8/2010

Measurement duration: 13 minutes 8 seconds

A. Experimental conditions.

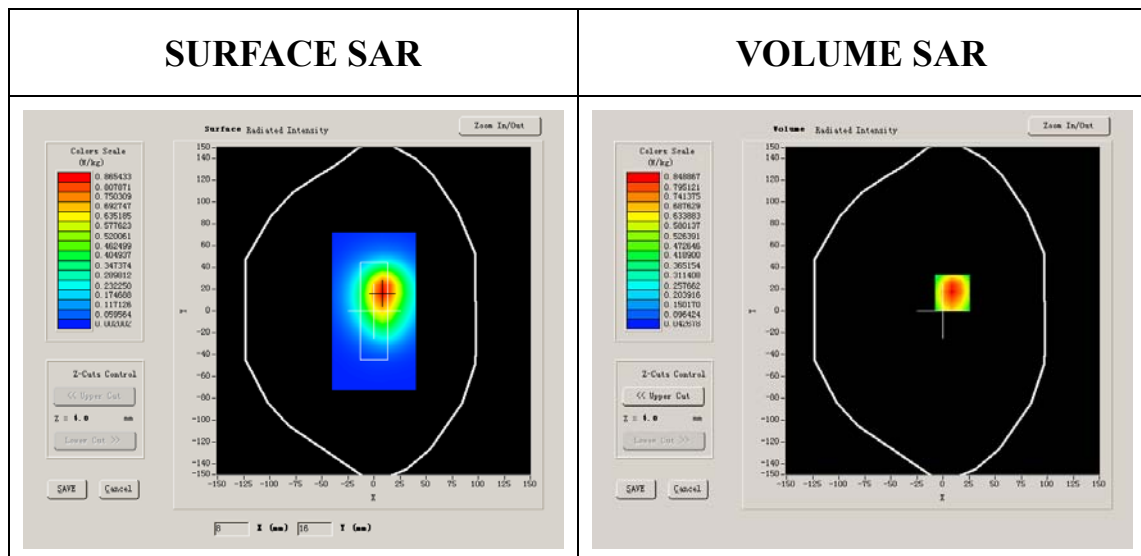
Phantom File	surf_sam_plan.txt
Phantom	Validation plane
Device Position	Body
Band	CDMA850
Channels	Low
Signal	CDMA

B. SAR Measurement Results

Lower Band SAR (Channel 1013):

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

Conductivity (S/m)	0.975187
Variation (%)	-1.080000
Ambient Temperature:	22.5°C
Liquid Temperature:	22.4°C
ConvF:	28.599,25.681,27.588
Crest factor:	1:1



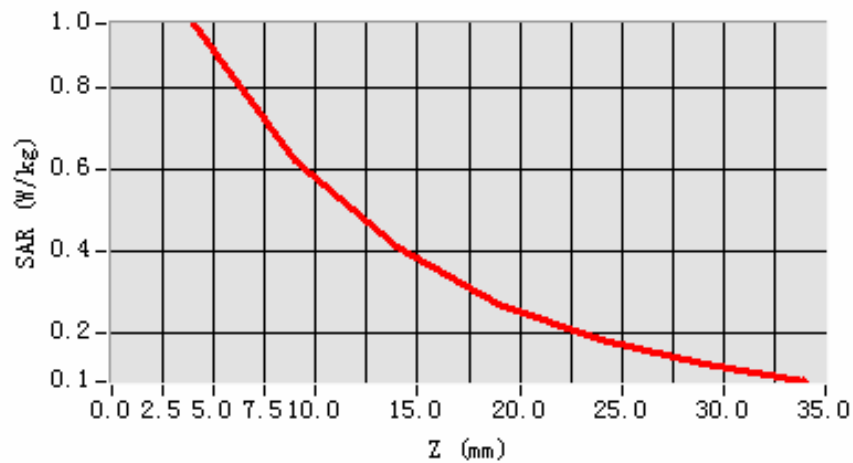
Maximum location: X=9.00, Y=17.00

SAR 10g (W/Kg)	0.317355
SAR 1g (W/Kg)	0.623735

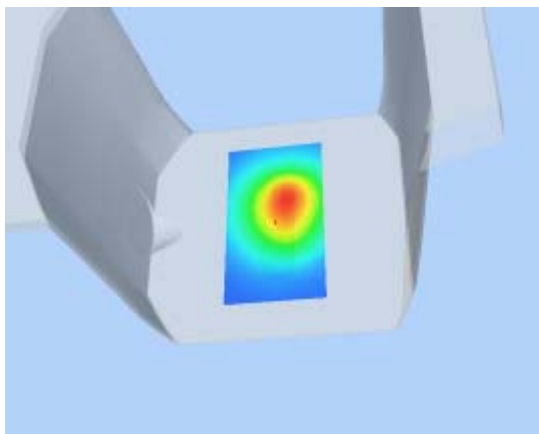
Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	0.9546	0.6219	0.4126	0.2743	0.1841	0.1244

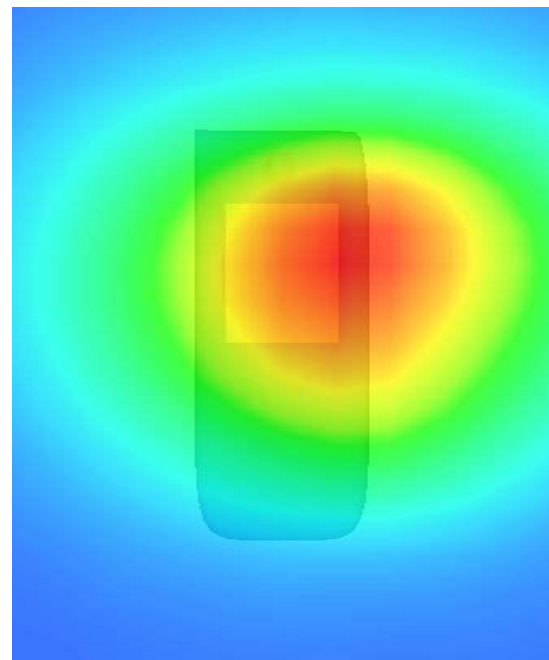
SAR, Z Axis Scan (X = 9, Y = 17)



3D scene shot



Hot spot position



MEASUREMENT 2

Type: Phone measurement (Complete)

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

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

Date of measurement: 24/8/2010

Measurement duration: 13 minutes 8 seconds

A. Experimental conditions.

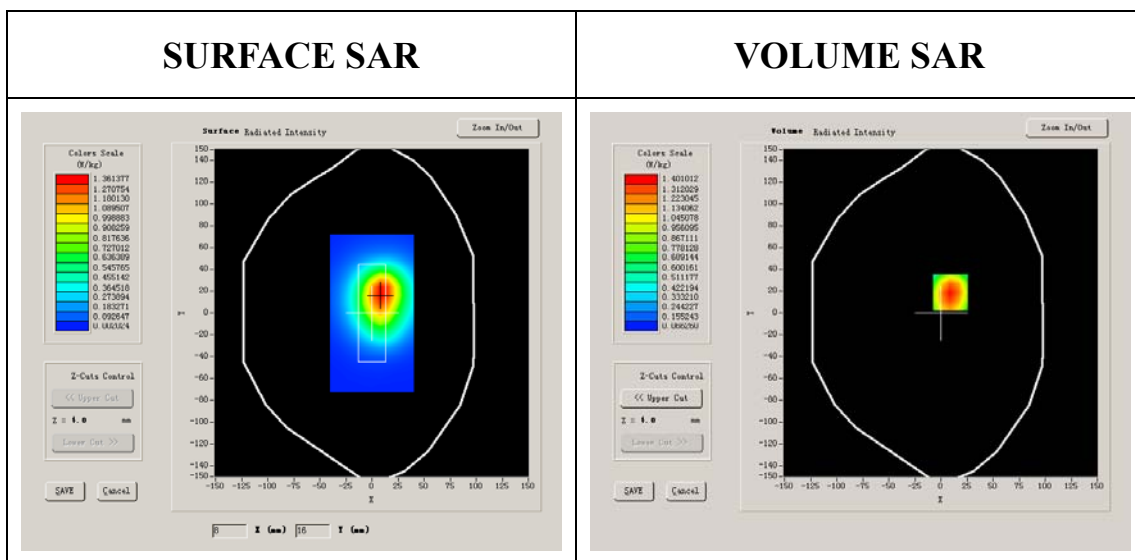
Phantom File	surf_sam_plan.txt
Phantom	Validation plane
Device Position	Body
Band	CDMA850
Channels	Middle
Signal	CDMA

B. SAR Measurement Results

Middle Band SAR (Channel 384):

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

Conductivity (S/m)	0.989164
Variation (%)	0.960000
Ambient Temperature:	22.5°C
Liquid Temperature:	22.4°C
ConvF:	28.599,25.681,27.588
Crest factor:	1:1



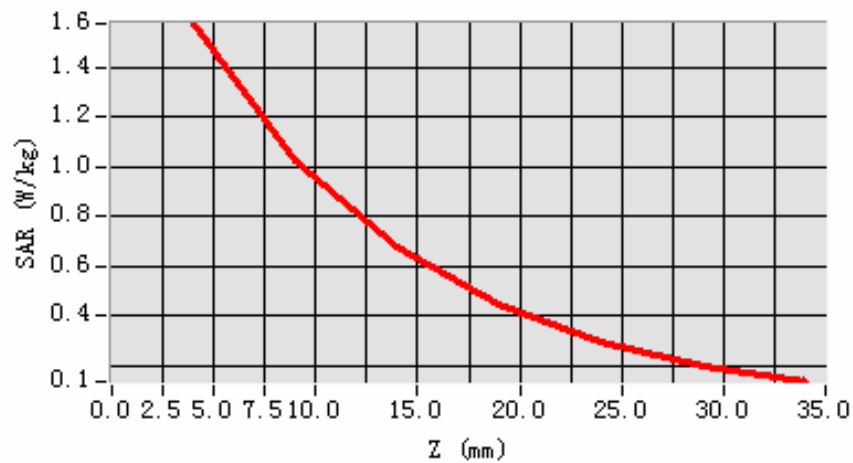
Maximum location: X=9.00, Y=19.00

SAR 10g (W/Kg)	0.573553
SAR 1g (W/Kg)	0.957235

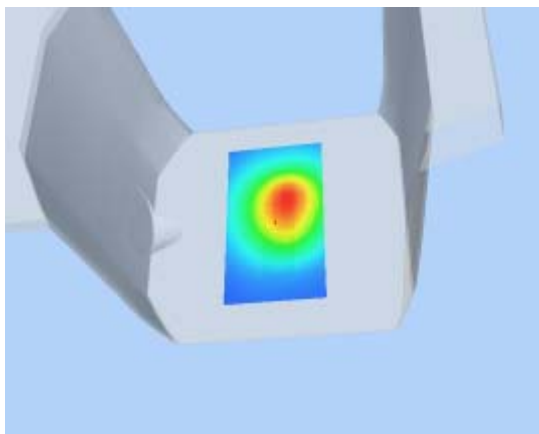
Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	1.5756	1.0276	0.6811	0.4460	0.2960	0.1999

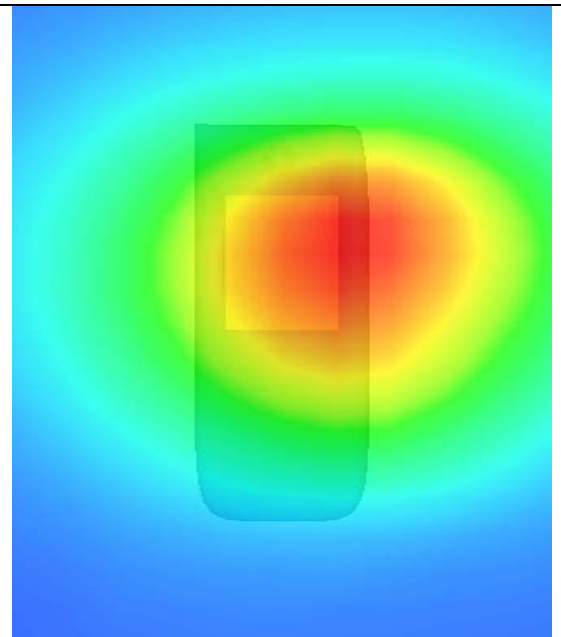
SAR, Z Axis Scan (X = 9, Y = 19)



3D scene shot



Hot spot position



MEASUREMENT 3

Type: Phone measurement (Complete)

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

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

Date of measurement: 24/8/2010

Measurement duration: 13 minutes 5 seconds

A. Experimental conditions.

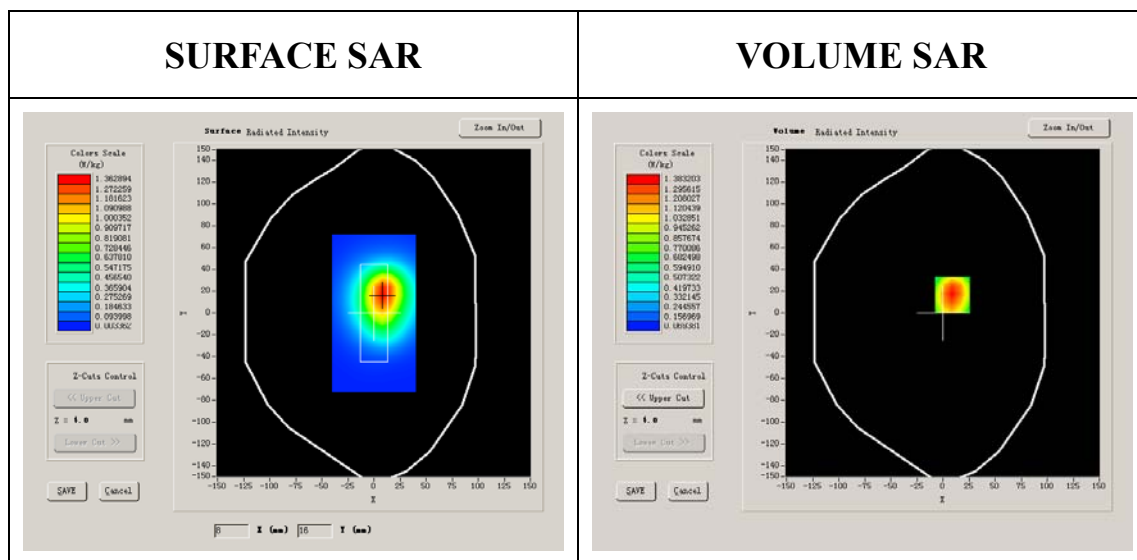
Phantom File	surf_sam_plan.txt
Phantom	Validation plane
Device Position	Body
Band	CDMA850
Channels	High
Signal	CDMA

B. SAR Measurement Results

Higher Band SAR (Channel 777):

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

Conductivity (S/m)	1.003105
Variation (%)	1.150000
Ambient Temperature:	22.5°C
Liquid Temperature:	22.4°C
ConvF:	28.599,25.681,27.588
Crest factor:	1:1



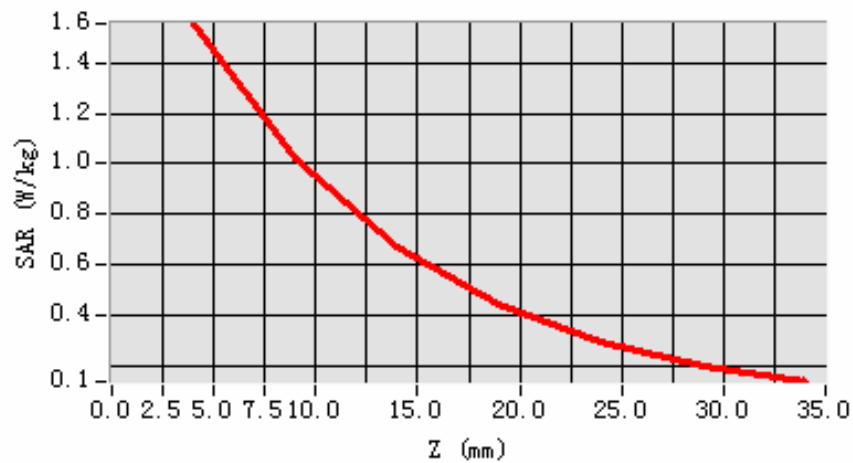
Maximum location: X=9.00, Y=17.00

SAR 10g (W/Kg)	0.395775
SAR 1g (W/Kg)	0.784114

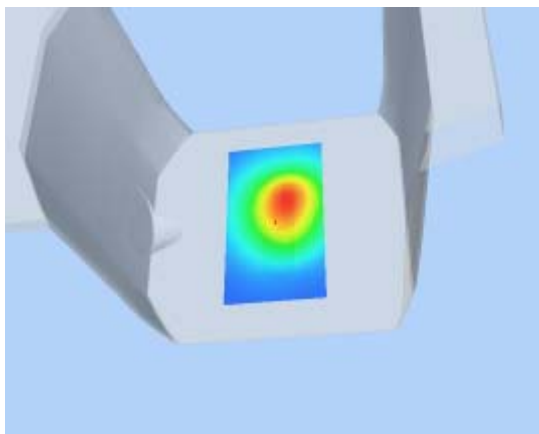
Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	1.5556	1.0239	0.6665	0.4430	0.2926	0.1969

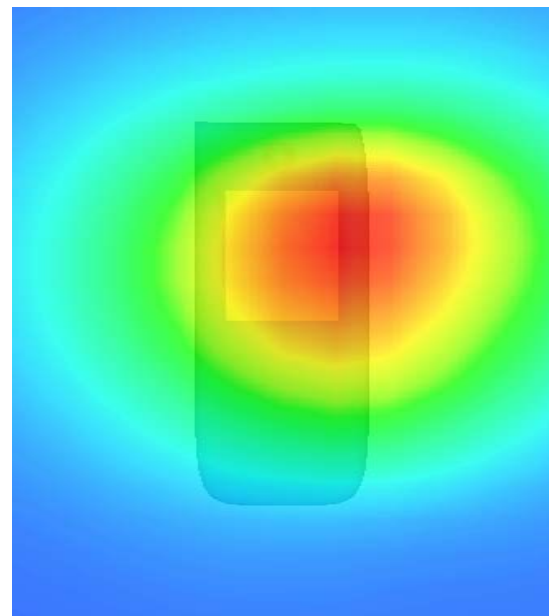
SAR, Z Axis Scan (X = 9, Y = 17)



3D scene shot



Hot spot position



MEASUREMENT 4

Type: Phone measurement (Complete)

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

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

Date of measurement: 24/8/2010

Measurement duration: 13 minutes 59 seconds

A. Experimental conditions.

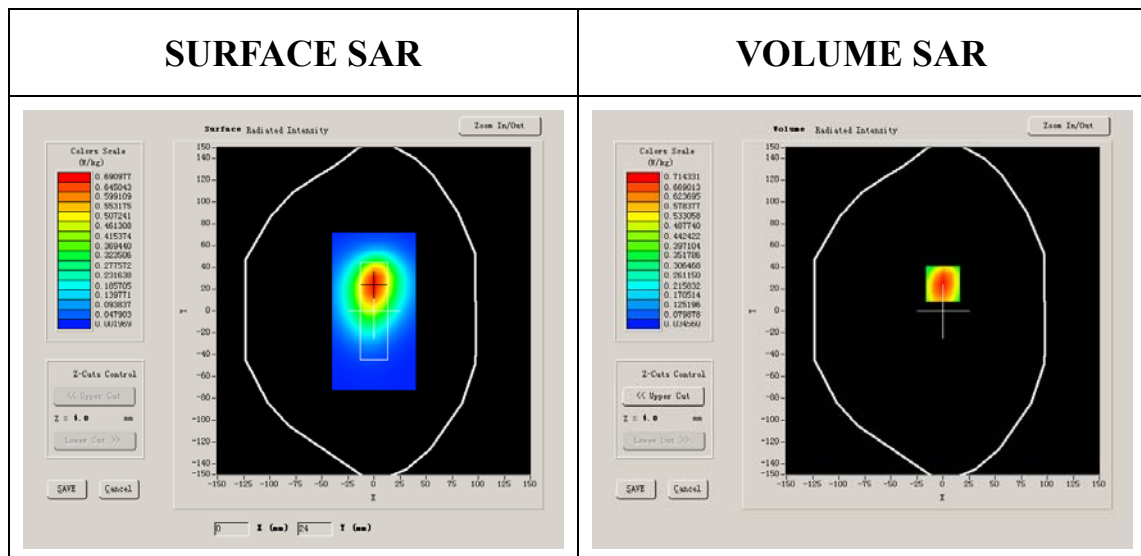
Phantom File	surf_sam_plan.txt
Phantom	Validation plane
Device Position	Body
Band	CDMA850
Channels	Low
Signal	CDMA

B. SAR Measurement Results

Lower Band SAR (Channel 1013):

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

Conductivity (S/m)	0.975187
Variation (%)	2.330000
Ambient Temperature:	22.5°C
Liquid Temperature:	22.4°C
ConvF:	28.599,25.681,27.588
Crest factor:	1:1



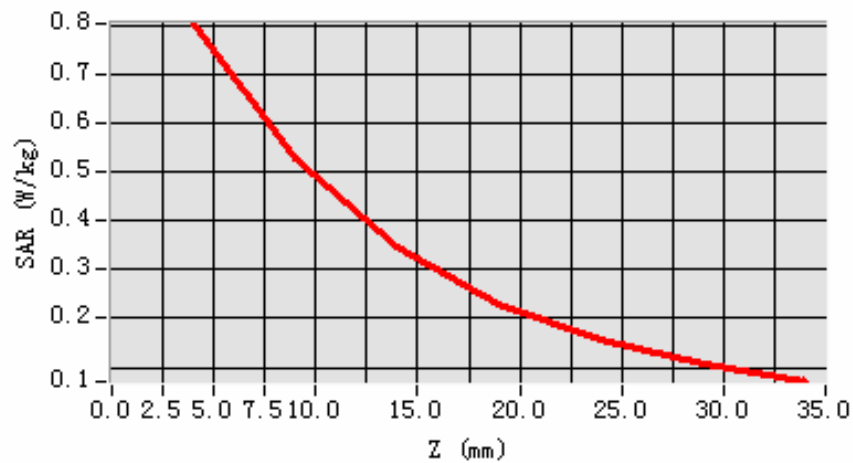
Maximum location: X=0.00, Y=25.00

SAR 10g (W/Kg)	0.494642
SAR 1g (W/Kg)	0.793562

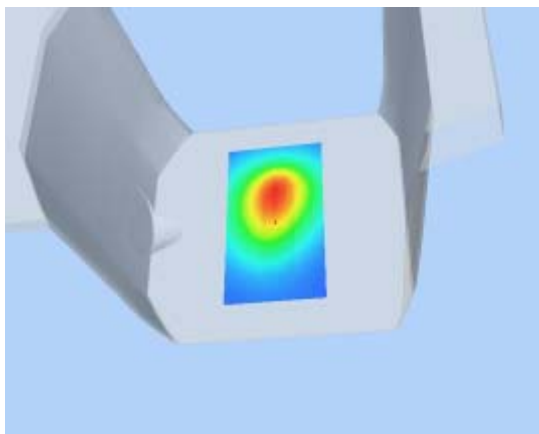
Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	0.8033	0.5254	0.3461	0.2312	0.1570	0.1056

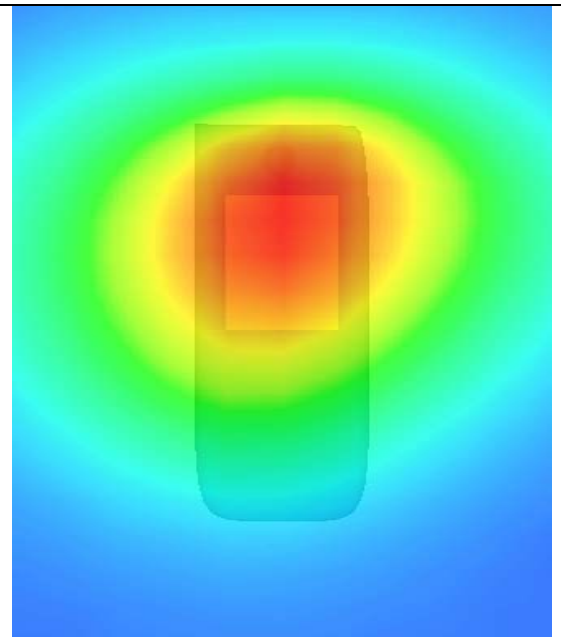
SAR, Z Axis Scan (X = 0, Y = 25)



3D scene shot



Hot spot position



MEASUREMENT 5

Type: Phone measurement (Complete)

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

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

Date of measurement: 24/8/2010

Measurement duration: 13 minutes 2 seconds

A. Experimental conditions.

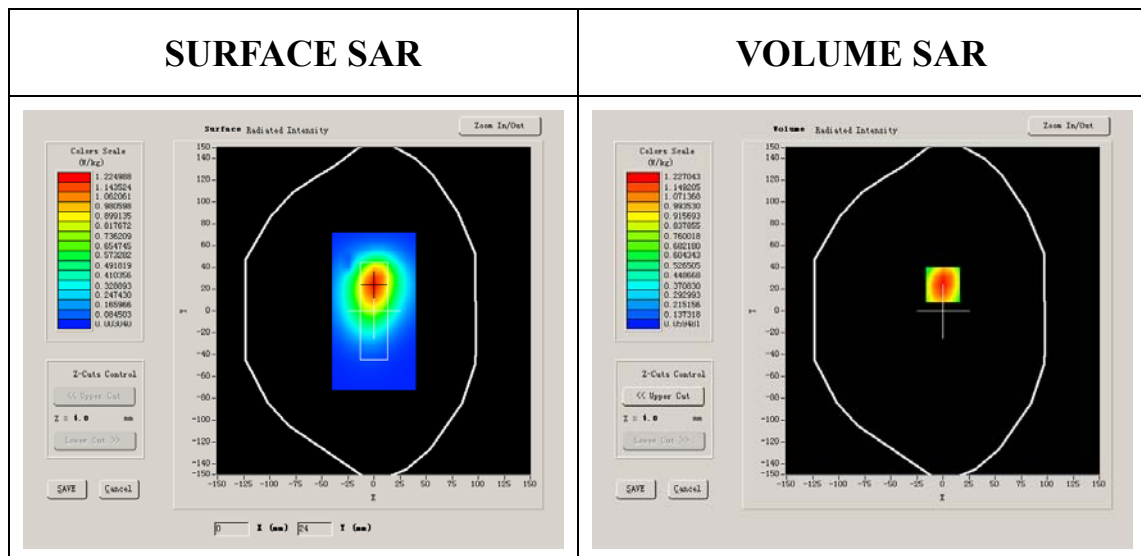
Phantom File	surf_sam_plan.txt
Phantom	Validation plane
Device Position	Body
Band	CDMA850
Channels	Middle
Signal	CDMA

B. SAR Measurement Results

Middle Band SAR (Channel 384):

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

Conductivity (S/m)	0.989164
Variation (%)	2.330000
Ambient Temperature:	22.5°C
Liquid Temperature:	22.4°C
ConvF:	28.599,25.681,27.588
Crest factor:	1:1



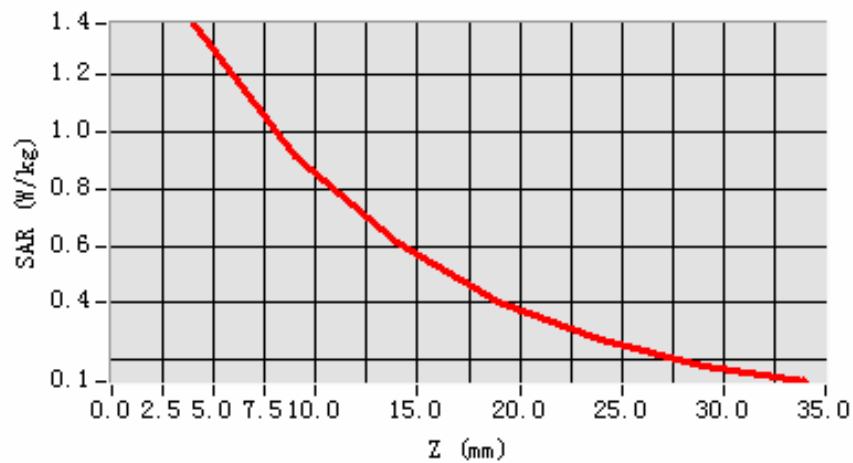
Maximum location: X=0.00, Y=24.00

SAR 10g (W/Kg)	0.684524
SAR 1g (W/Kg)	1.063362

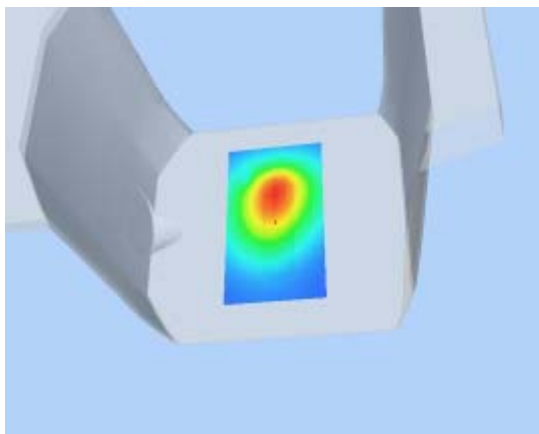
Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	1.3799	0.9122	0.6092	0.3993	0.2687	0.1804

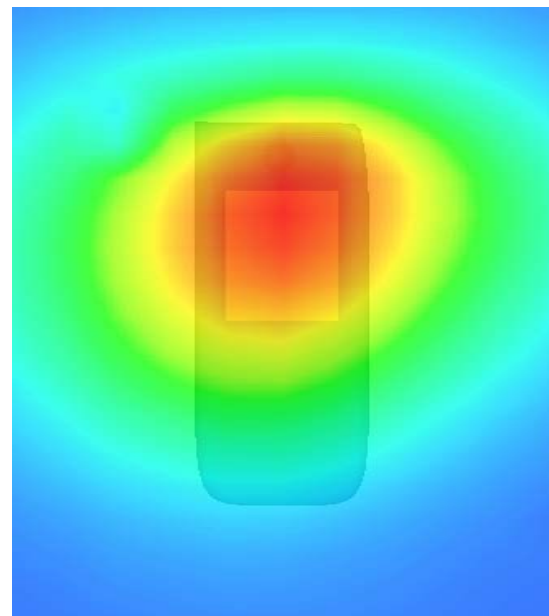
SAR, Z Axis Scan (X = 0, Y = 24)



3D scene shot



Hot spot position



MEASUREMENT 6

Type: Phone measurement (Complete)

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

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

Date of measurement: 24/8/2010

Measurement duration: 13 minutes 7 seconds

A. Experimental conditions.

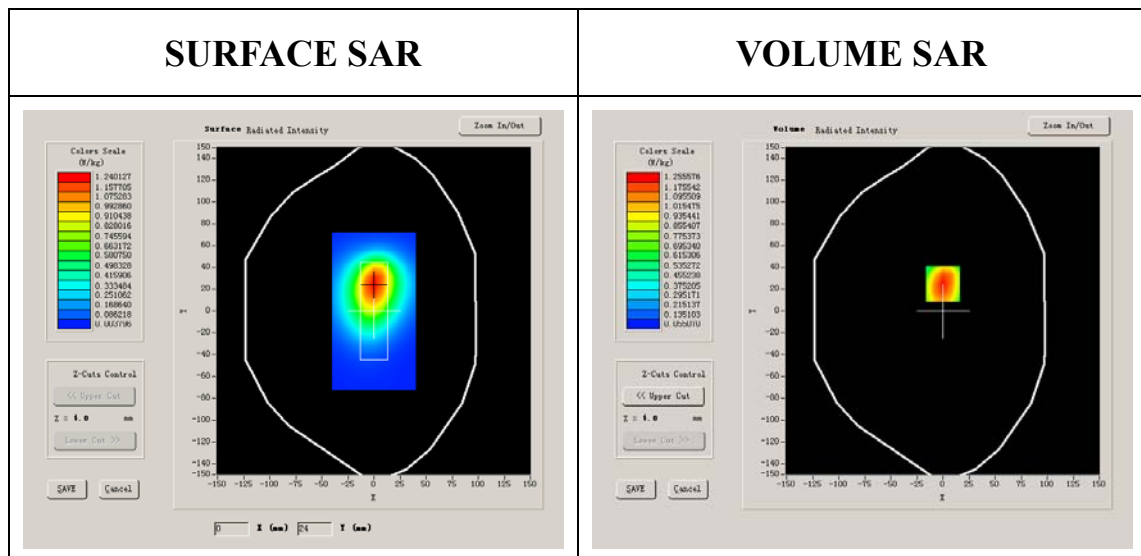
Phantom File	surf_sam_plan.txt
Phantom	Validation plane
Device Position	Body
Band	CDMA850
Channels	High
Signal	CDMA

B. SAR Measurement Results

Higher Band SAR (Channel 777):

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

Conductivity (S/m)	1.003105
Variation (%)	0.670000
Ambient Temperature:	22.5°C
Liquid Temperature:	22.4°C
ConvF:	28.599,25.681,27.588
Crest factor:	1:1



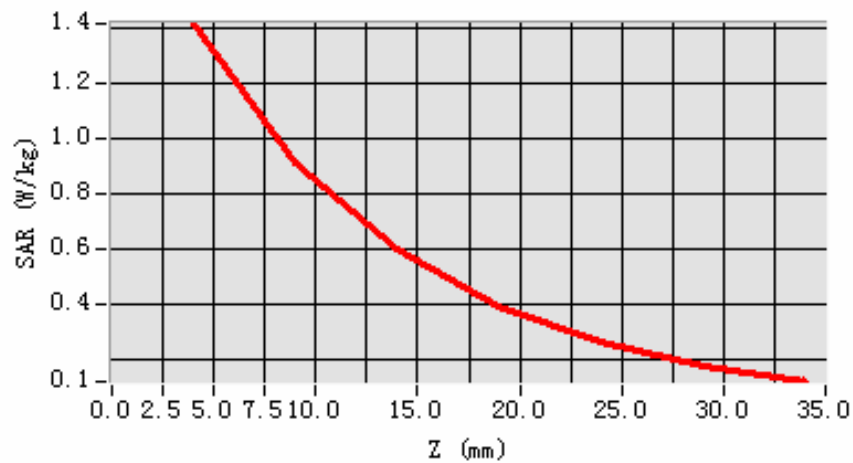
Maximum location: X=0.00, Y=25.00

SAR 10g (W/Kg)	0.617875
SAR 1g (W/Kg)	0.994634

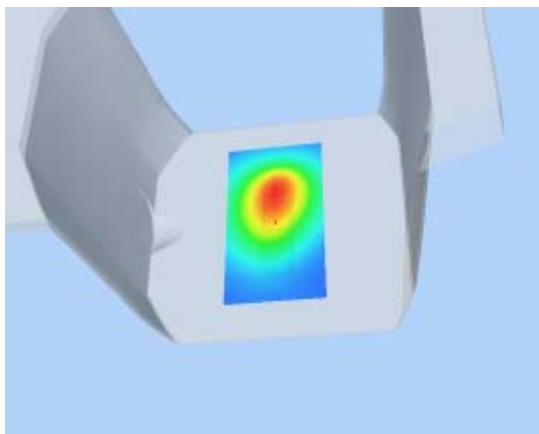
Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	1.4120	0.9091	0.5942	0.3915	0.2602	0.1737

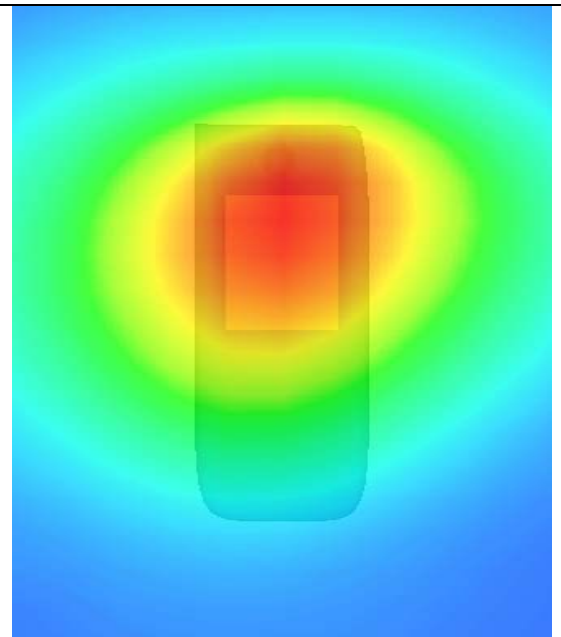
SAR, Z Axis Scan (X = 0, Y = 25)



3D scene shot



Hot spot position



MEASUREMENT 7

Type: Phone measurement (Complete)

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

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

Date of measurement: 24/8/2010

Measurement duration: 13 minutes 6 seconds

A. Experimental conditions.

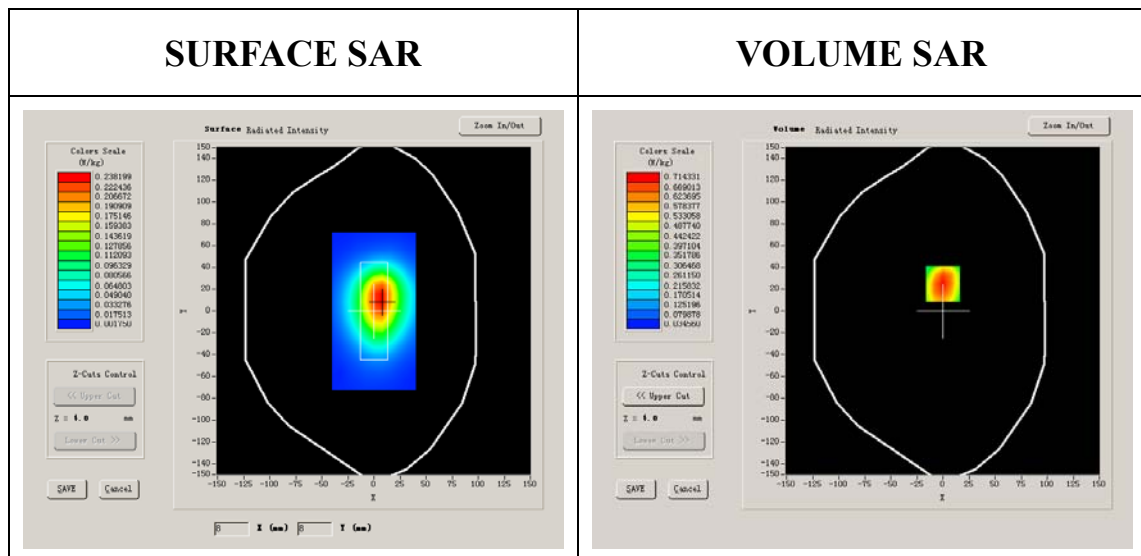
Phantom File	surf_sam_plan.txt
Phantom	Validation plane
Device Position	Body
Band	CDMA850
Channels	Low
Signal	CDMA

B. SAR Measurement Results

Lower Band SAR (Channel 1013):

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

Conductivity (S/m)	0.975187
Variation (%)	-1.260010
Ambient Temperature:	22.5°C
Liquid Temperature:	22.4°C
ConvF:	28.599,25.681,27.588
Crest factor:	1:1



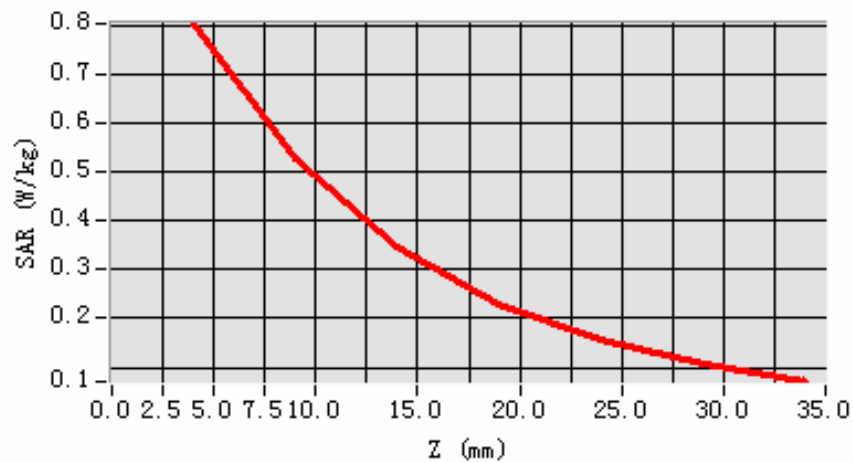
Maximum location: X=6.00, Y=11.00

SAR 10g (W/Kg)	0.157344
SAR 1g (W/Kg)	0.252177

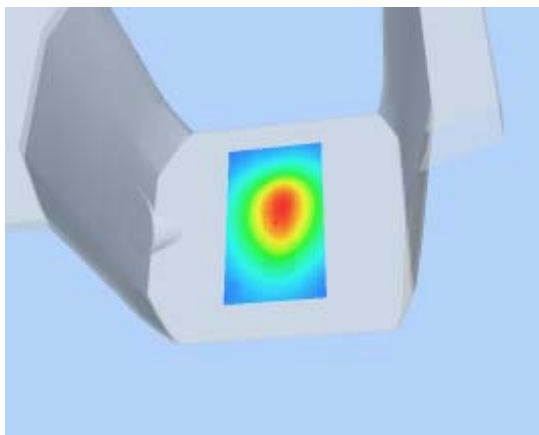
Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	0.0019	0.0021	0.0018	0.0016	0.0016	0.0018

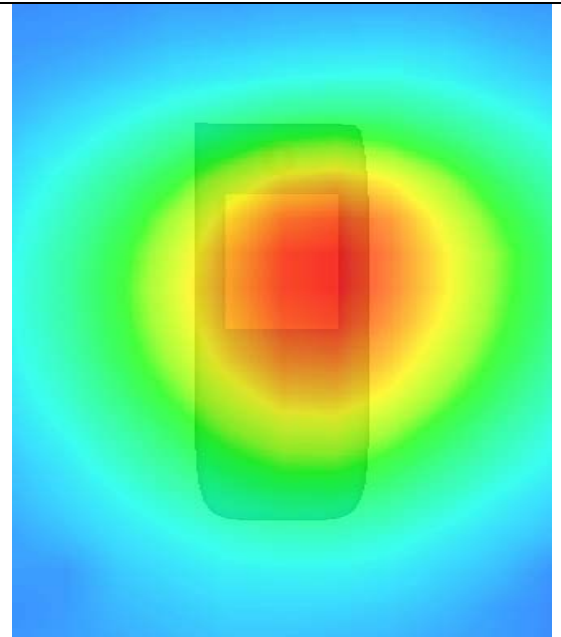
SAR, Z Axis Scan (X = 0, Y = 25)



3D scene shot



Hot spot position



MEASUREMENT 8

Type: Phone measurement (Complete)

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

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

Date of measurement: 24/8/2010

Measurement duration: 13 minutes 6 seconds

A. Experimental conditions.

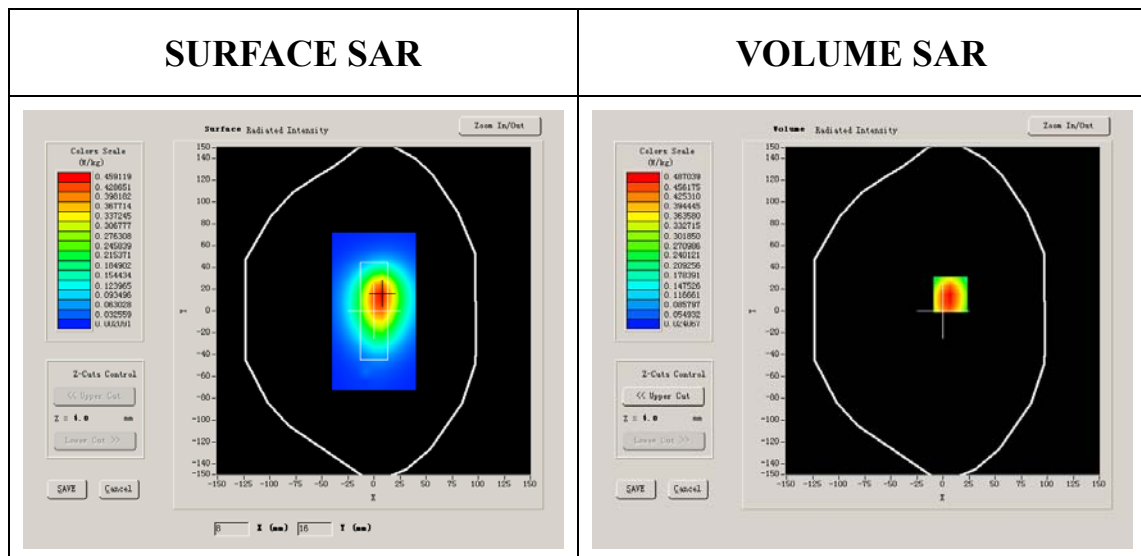
Phantom File	surf_sam_plan.txt
Phantom	Validation plane
Device Position	Body
Band	CDMA850
Channels	Middle
Signal	CDMA

B. SAR Measurement Results

Middle Band SAR (Channel 384):

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

Conductivity (S/m)	0.989164
Variation (%)	3.830000
Ambient Temperature:	22.5°C
Liquid Temperature:	22.4°C
ConvF:	28.599,25.681,27.588
Crest factor:	1:1



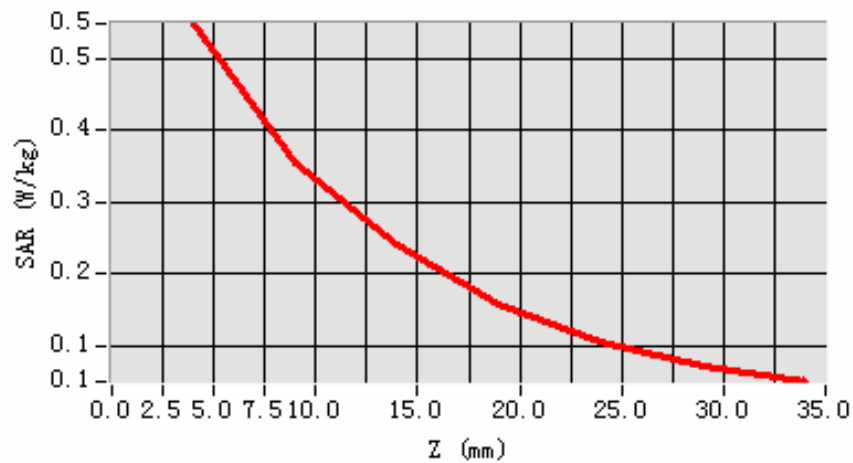
Maximum location: X=7.00, Y=15.00

SAR 10g (W/Kg)	0.241663
SAR 1g (W/Kg)	0.483624

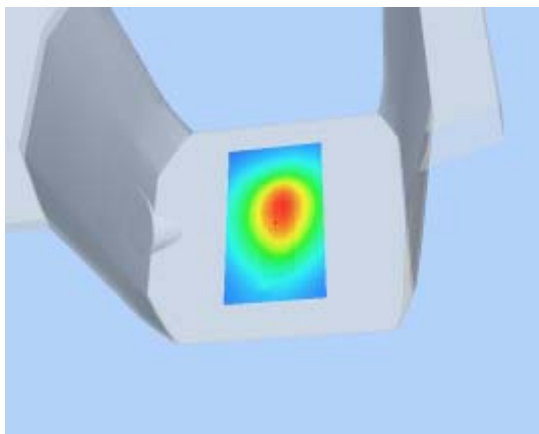
Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	0.5477	0.3547	0.2410	0.1576	0.1053	0.0719

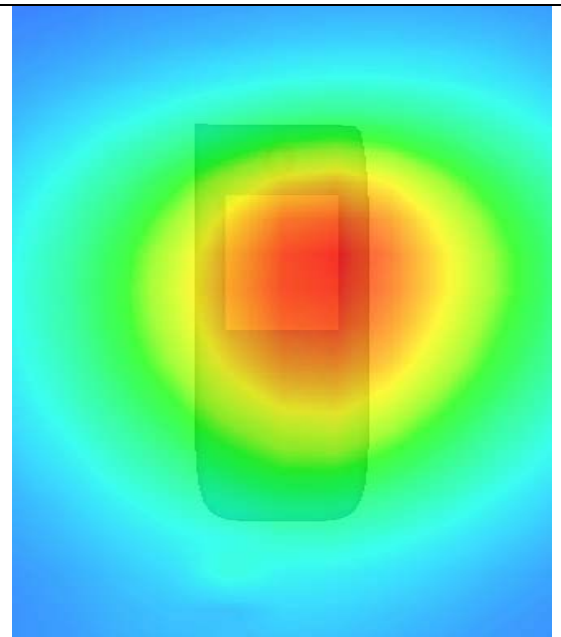
SAR, Z Axis Scan (X = 7, Y = 15)



3D scene shot



Hot spot position



MEASUREMENT 9

Type: Phone measurement (Complete)

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

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

Date of measurement: 24/8/2010

Measurement duration: 13 minutes 7 seconds

A. Experimental conditions.

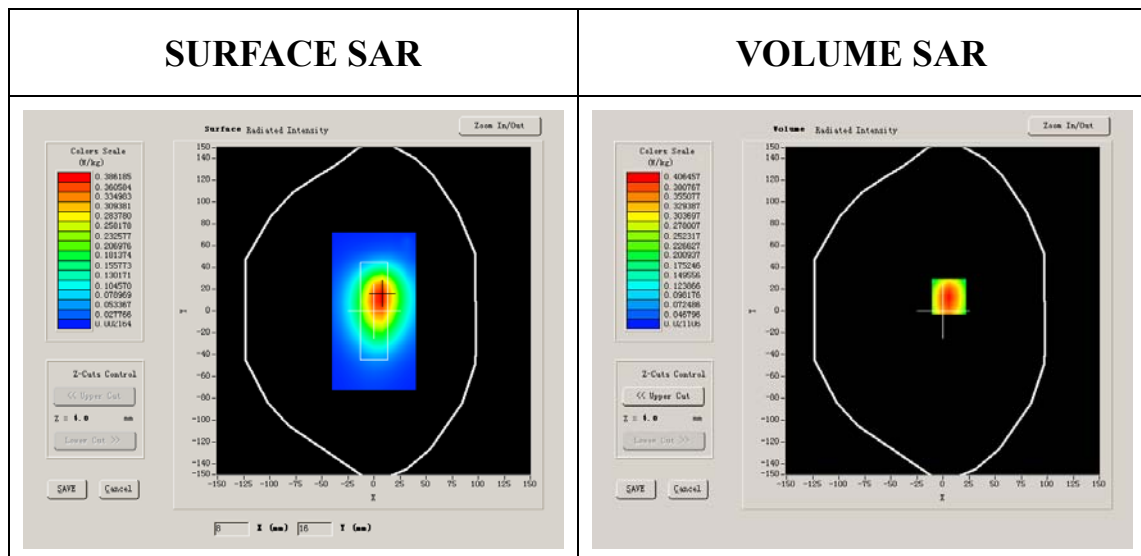
Phantom File	surf_sam_plan.txt
Phantom	Validation plane
Device Position	Body
Band	CDMA850
Channels	High
Signal	CDMA

B. SAR Measurement Results

Higher Band SAR (Channel 777):

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

Conductivity (S/m)	1.003105
Variation (%)	2.800000
Ambient Temperature:	22.5°C
Liquid Temperature:	22.4°C
ConvF:	28.599,25.681,27.588
Crest factor:	1:1



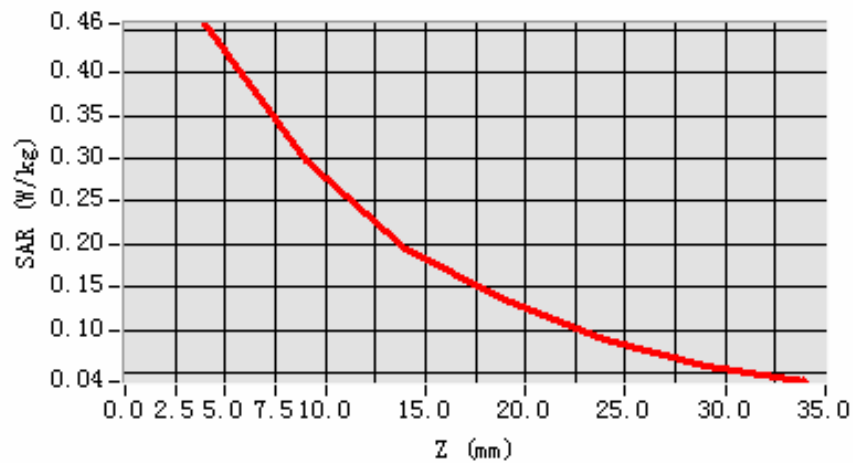
Maximum location: X=6.00, Y=13.00

SAR 10g (W/Kg)	0.194666
SAR 1g (W/Kg)	0.388466

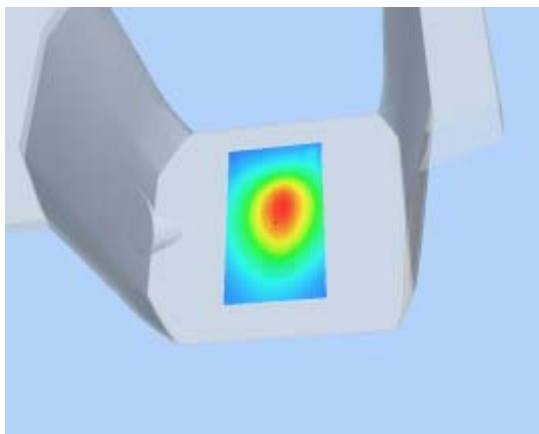
Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	0.4571	0.2976	0.1955	0.1343	0.0879	0.0585

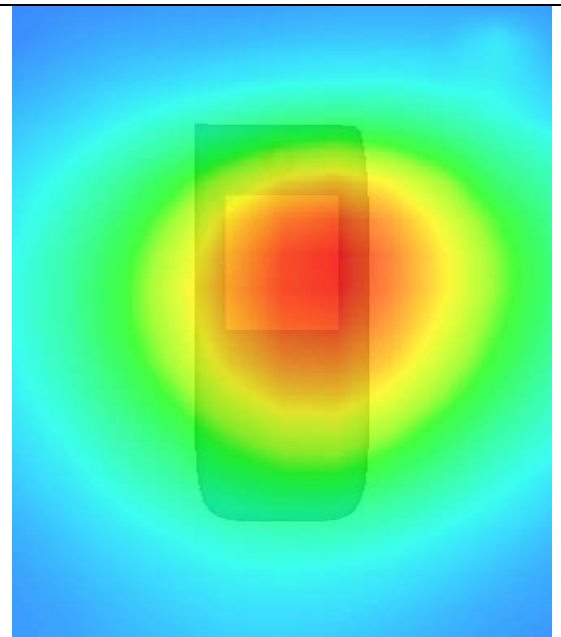
SAR, Z Axis Scan (X = 6, Y = 13)



3D scene shot



Hot spot position



MEASUREMENT 10

Type: Phone measurement (Complete)

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

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

Date of measurement: 24/8/2010

Measurement duration: 13 minutes 6 seconds

A. Experimental conditions.

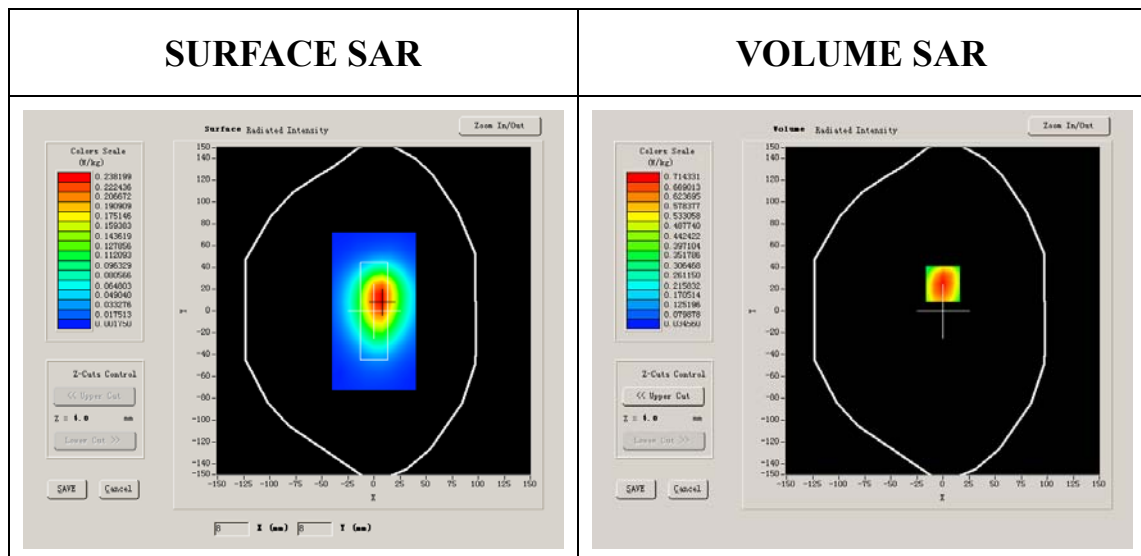
Phantom File	surf_sam_plan.txt
Phantom	Validation plane
Device Position	Body
Band	CDMA850
Channels	Low
Signal	CDMA

B. SAR Measurement Results

Lower Band SAR (Channel 1013):

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

Conductivity (S/m)	0.975187
Variation (%)	-1.260010
Ambient Temperature:	22.5°C
Liquid Temperature:	22.4°C
ConvF:	28.599,25.681,27.588
Crest factor:	1:1



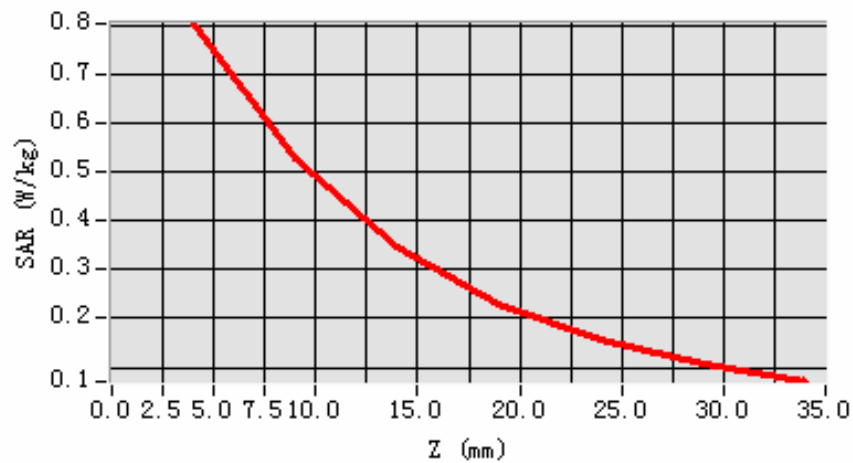
Maximum location: X=6.00, Y=11.00

SAR 10g (W/Kg)	0.144413
SAR 1g (W/Kg)	0.227747

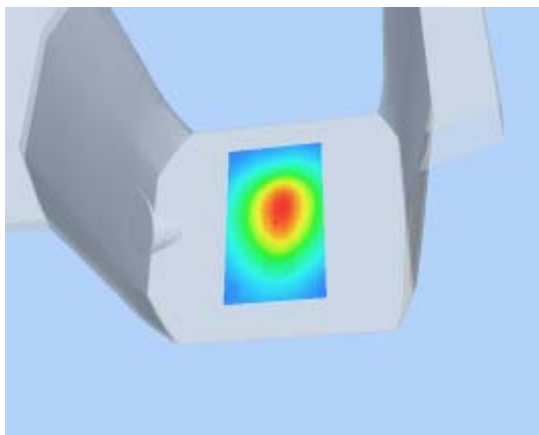
Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	0.0019	0.0021	0.0018	0.0016	0.0016	0.0018

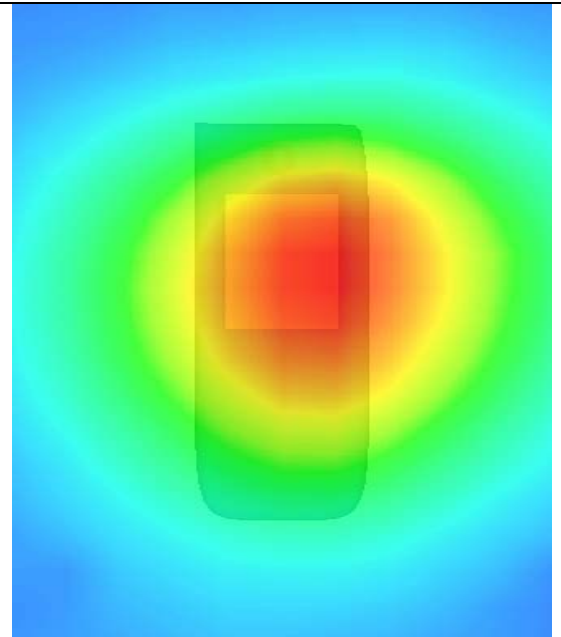
SAR, Z Axis Scan (X = 0, Y = 25)



3D scene shot



Hot spot position



MEASUREMENT 11

Type: Phone measurement (Complete)

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

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

Date of measurement: 24/8/2010

Measurement duration: 13 minutes 6 seconds

A. Experimental conditions.

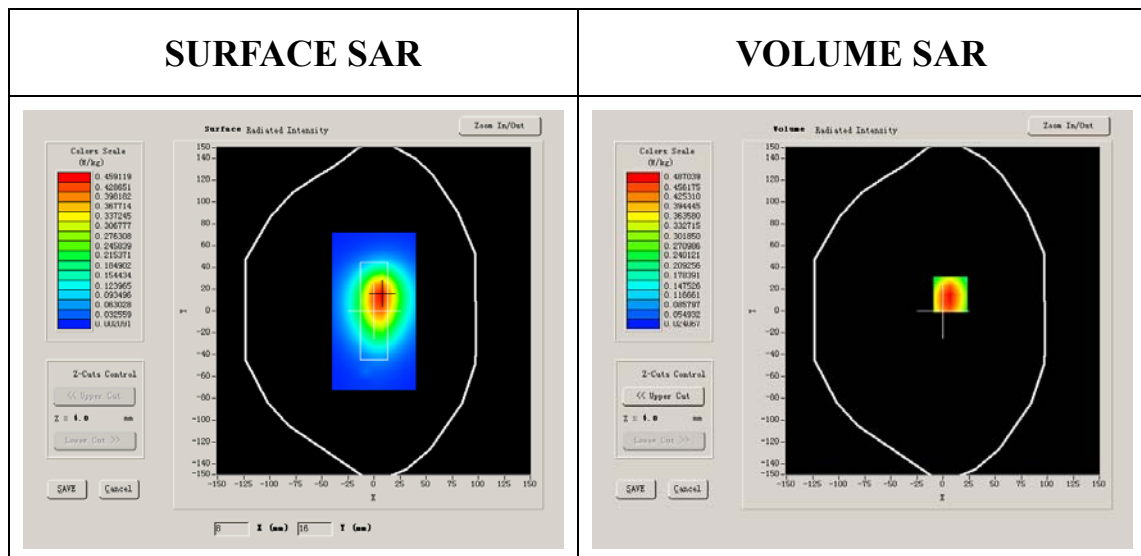
Phantom File	surf_sam_plan.txt
Phantom	Validation plane
Device Position	Body
Band	CDMA850
Channels	Middle
Signal	CDMA

B. SAR Measurement Results

Middle Band SAR (Channel 384):

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

Conductivity (S/m)	0.989164
Variation (%)	3.830000
Ambient Temperature:	22.5°C
Liquid Temperature:	22.4°C
ConvF:	28.599,25.681,27.588
Crest factor:	1:1



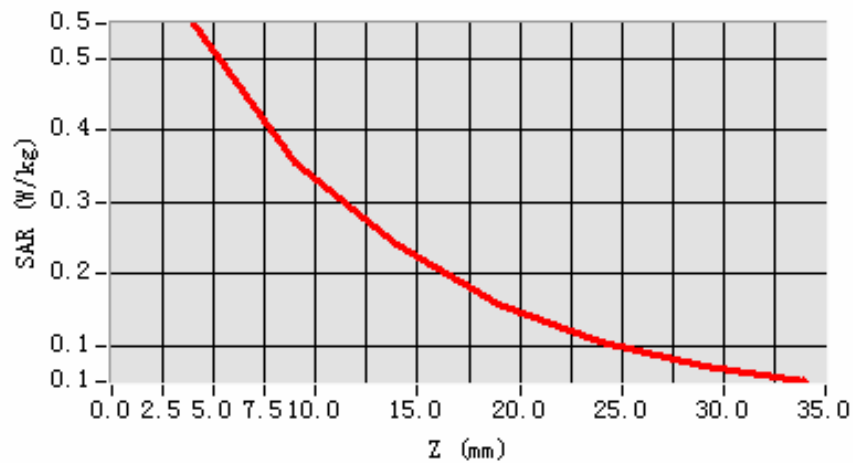
Maximum location: X=7.00, Y=15.00

SAR 10g (W/Kg)	0.194663
SAR 1g (W/Kg)	0.373188

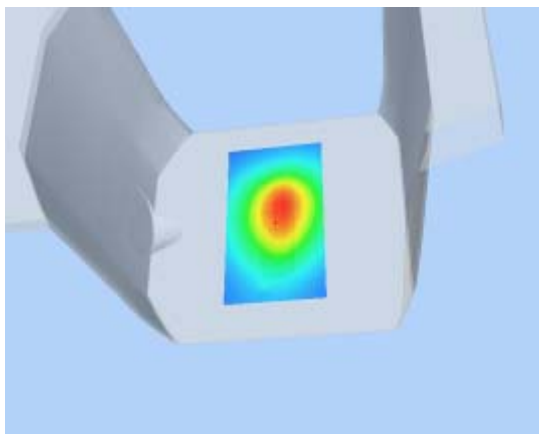
Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	0.5477	0.3547	0.2410	0.1576	0.1053	0.0719

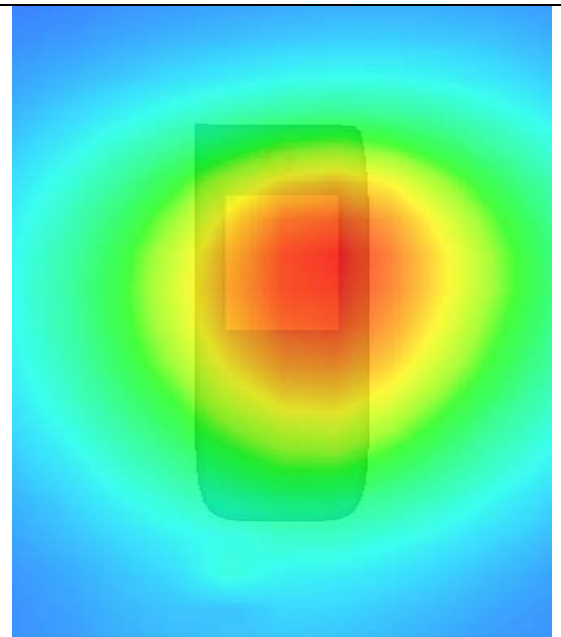
SAR, Z Axis Scan (X = 7, Y = 15)



3D scene shot



Hot spot position



MEASUREMENT 12

Type: Phone measurement (Complete)

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

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

Date of measurement: 24/8/2010

Measurement duration: 13 minutes 7 seconds

A. Experimental conditions.

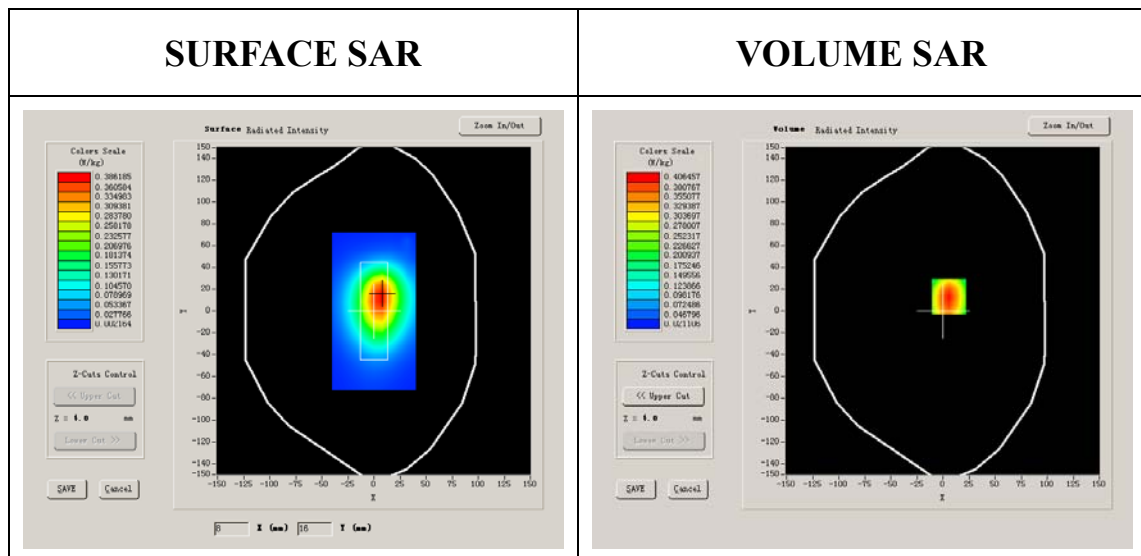
Phantom File	surf_sam_plan.txt
Phantom	Validation plane
Device Position	Body
Band	CDMA850
Channels	High
Signal	CDMA

B. SAR Measurement Results

Higher Band SAR (Channel 777):

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

Conductivity (S/m)	1.003105
Variation (%)	2.800000
Ambient Temperature:	22.5°C
Liquid Temperature:	22.4°C
ConvF:	28.599,25.681,27.588
Crest factor:	1:1



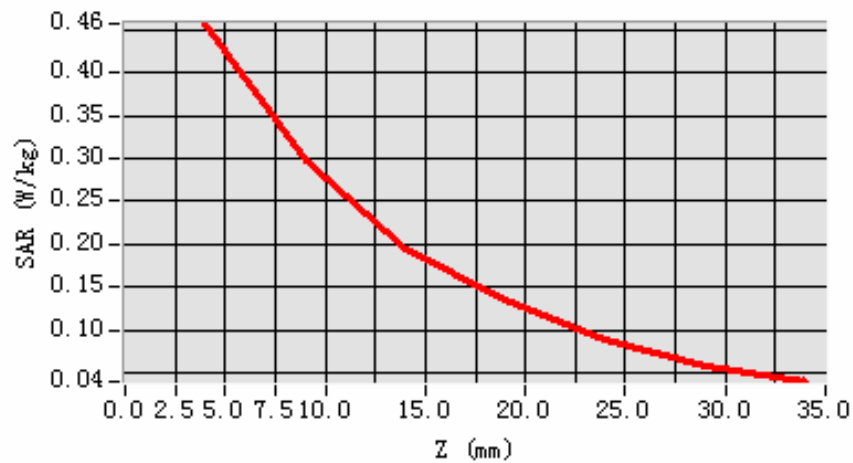
Maximum location: X=6.00, Y=13.00

SAR 10g (W/Kg)	0.194566
SAR 1g (W/Kg)	0.332663

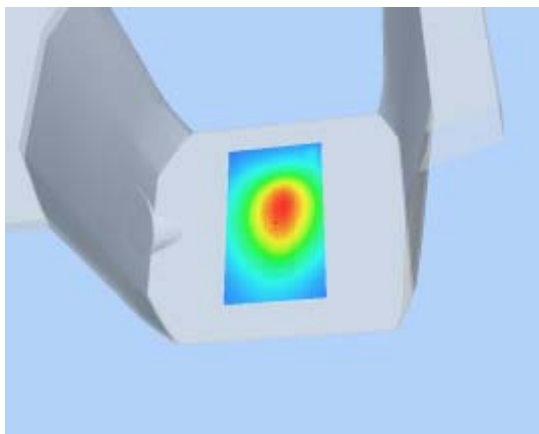
Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	0.4571	0.2976	0.1955	0.1343	0.0879	0.0585

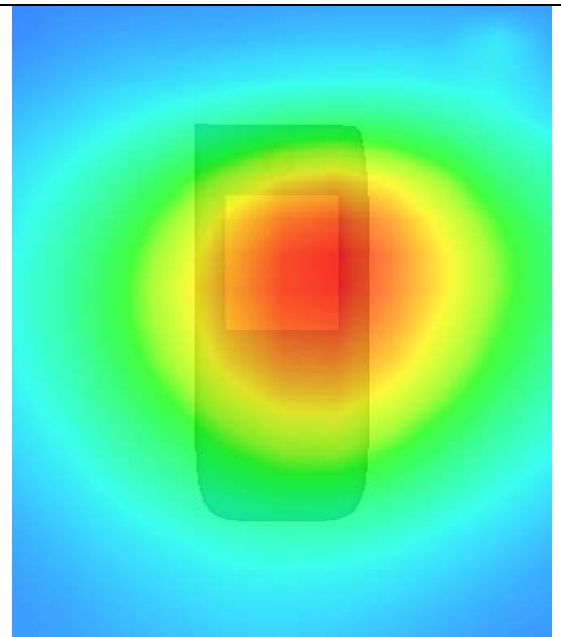
SAR, Z Axis Scan (X = 6, Y = 13)



3D scene shot



Hot spot position



MEASUREMENT 13

Type: Phone measurement (Complete)

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

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

Date of measurement: 24/8/2010

Measurement duration: 13 minutes 8 seconds

A. Experimental conditions.

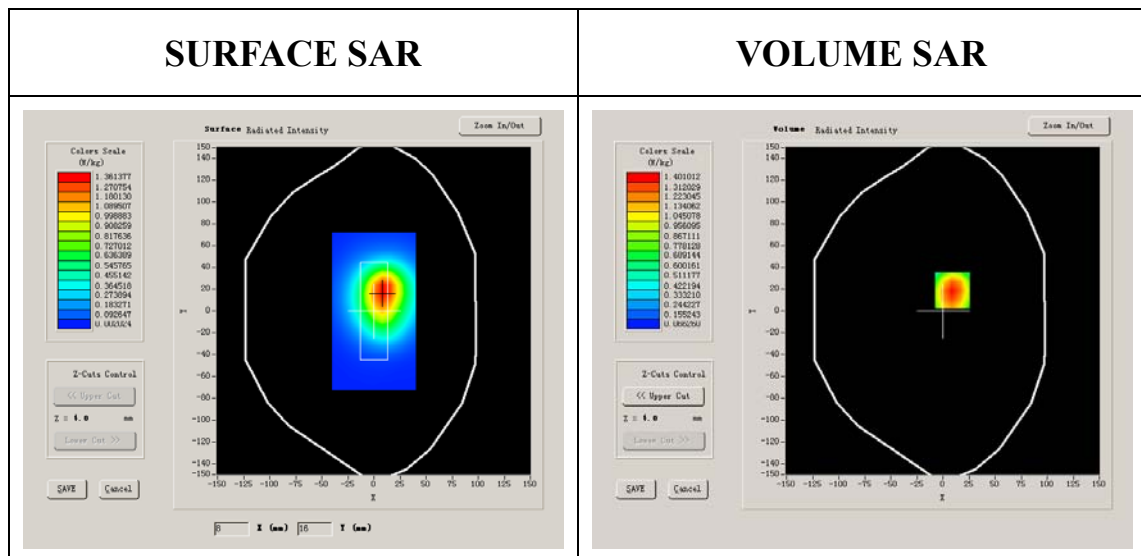
Phantom File	surf_sam_plan.txt
Phantom	Validation plane
Device Position	Body
Band	CDMA850
Channels	Middle
Signal	CDMA

B. SAR Measurement Results

Middle Band SAR (Channel 384):

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

Conductivity (S/m)	0.989164
Variation (%)	0.960000
Ambient Temperature:	22.5°C
Liquid Temperature:	22.4°C
ConvF:	28.599,25.681,27.588
Crest factor:	1:1



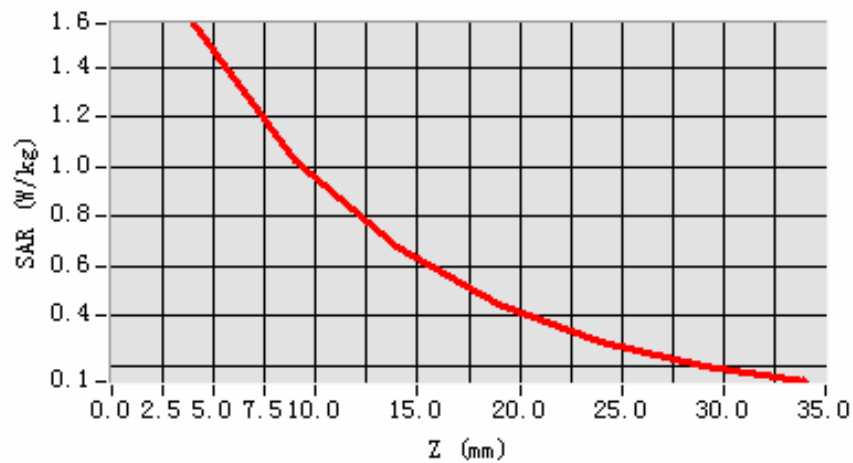
Maximum location: X=9.00, Y=19.00

SAR 10g (W/Kg)	0.483465
SAR 1g (W/Kg)	0.964764

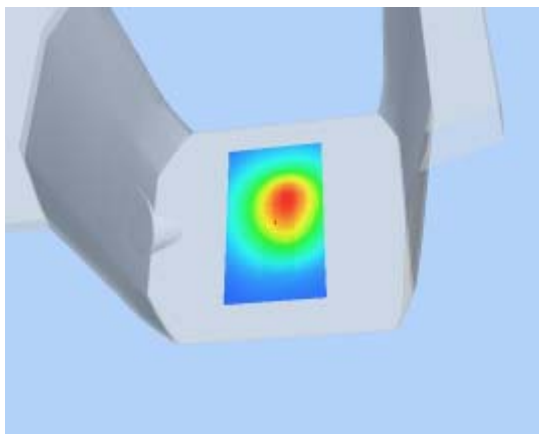
Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	1.5756	1.0276	0.6811	0.4460	0.2960	0.1999

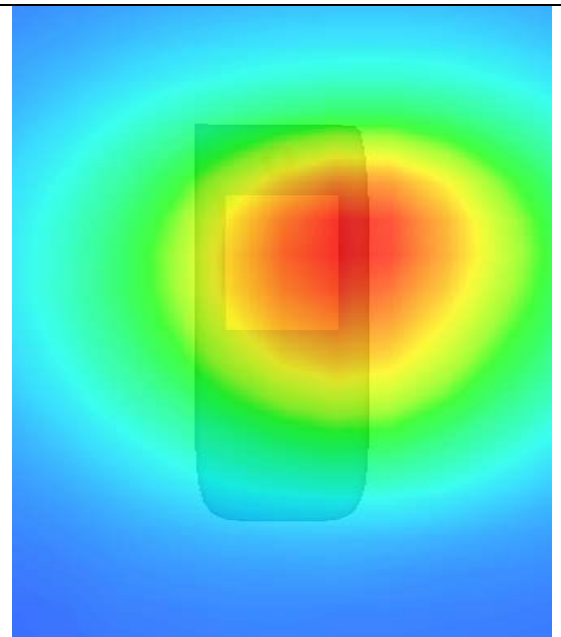
SAR, Z Axis Scan (X = 9, Y = 19)



3D scene shot



Hot spot position



MEASUREMENT 14

Type: Phone measurement (Complete)

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

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

Date of measurement: 24/8/2010

Measurement duration: 13 minutes 9 seconds

A. Experimental conditions.

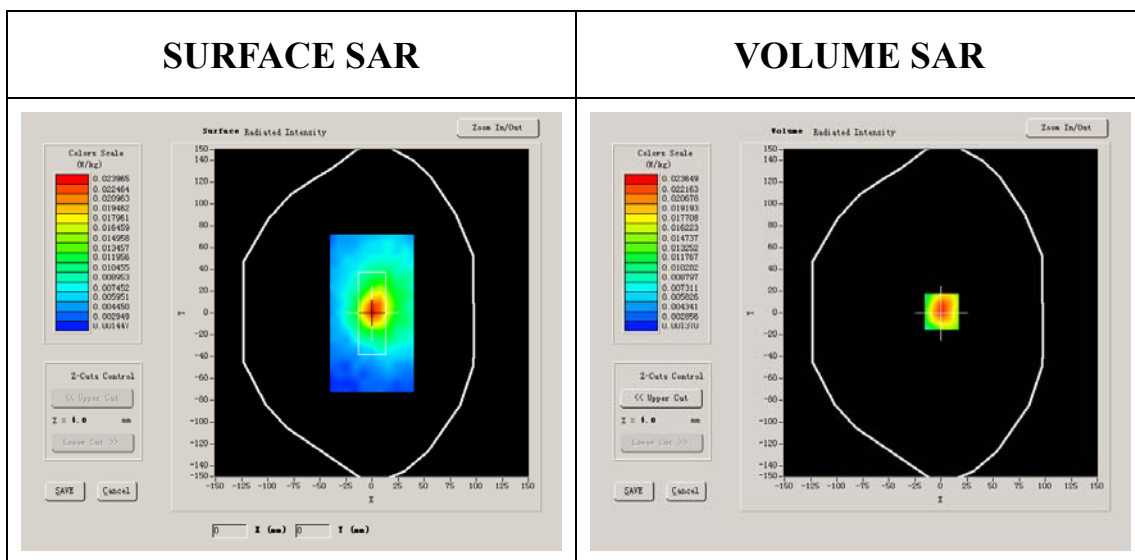
Phantom File	surf_sam_plan.txt
Phantom	Validation plane
Device Position	Body
Band	CDMA850
Channels	High
Signal	CDMA

B. SAR Measurement Results

Higher Band SAR (Channel 777):

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

Conductivity (S/m)	1.003105
Variation (%)	-2.090000
Ambient Temperature:	22.5°C
Liquid Temperature:	22.4°C
ConvF:	28.599,25.681,27.588
Crest factor:	1:1



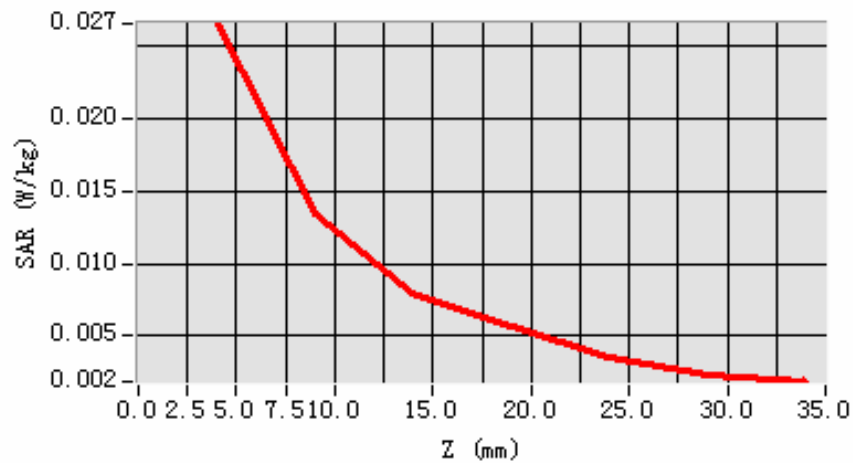
Maximum location: X=1.00, Y=1.00

SAR 10g (W/Kg)	0.178345
SAR 1g (W/Kg)	0.351477

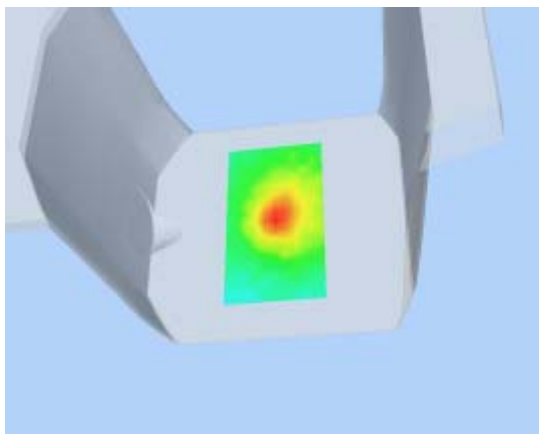
Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	1.0370	0.5967	0.3524	0.2147	0.1334	0.0848

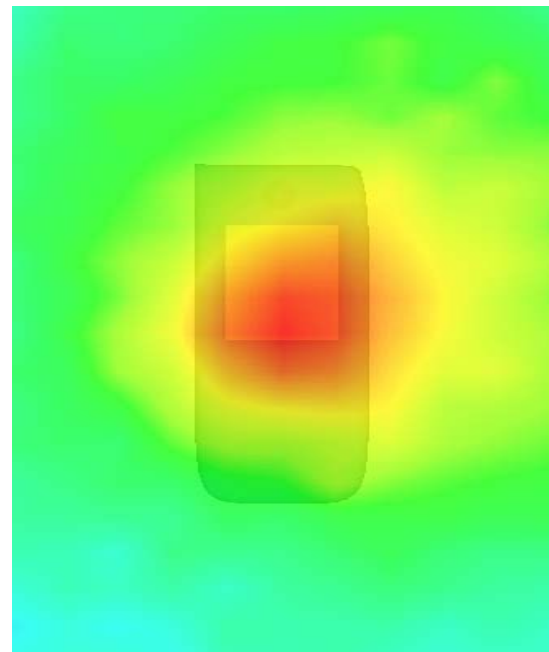
SAR, Z Axis Scan (X = 1, Y = 1)



3D scene shot



Hot spot position



MEASUREMENT 15

Type: Phone measurement (Complete)

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

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

Date of measurement: 24/8/2010

Measurement duration: 13 minutes 6 seconds

A. Experimental conditions.

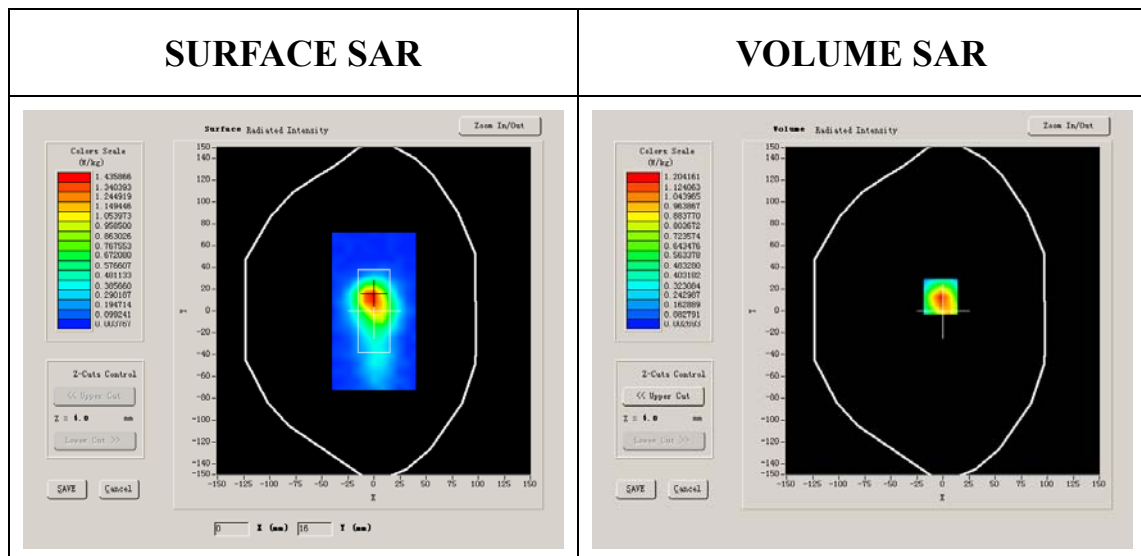
Phantom File	surf_sam_plan.txt
Phantom	Validation plane
Device Position	Body
Band	US_PCS
Channels	Low
Signal	CDMA

B. SAR Measurement Results

Middle Band SAR (Channel 25):

Frequency (MHz)	1851.250000
Relative permittivity (real part)	51.903000
Relative permittivity	14.817600

Conductivity (S/m)	1.486632
Variation (%)	-0.700012
Ambient Temperature:	21.9°C
Liquid Temperature:	21.3°C
ConvF:	40.625,34.773,38.535
Crest factor:	1:1



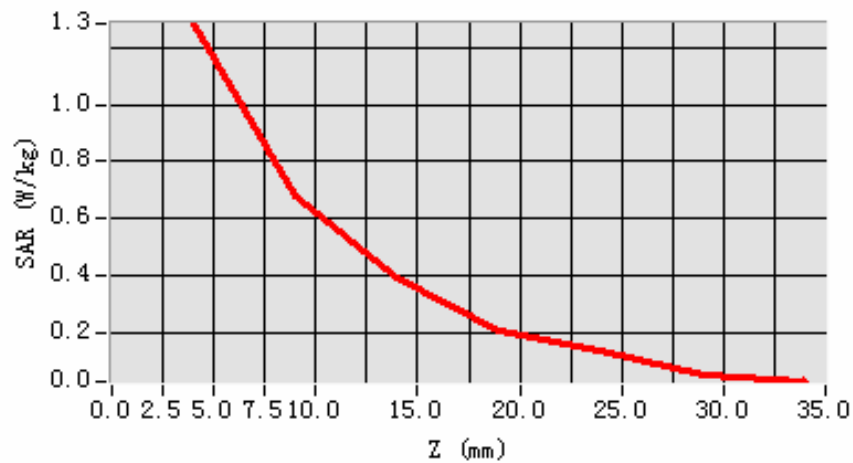
Maximum location: X=-2.00, Y=13.00

SAR 10g (W/Kg)	0.451663
SAR 1g (W/Kg)	0.851846

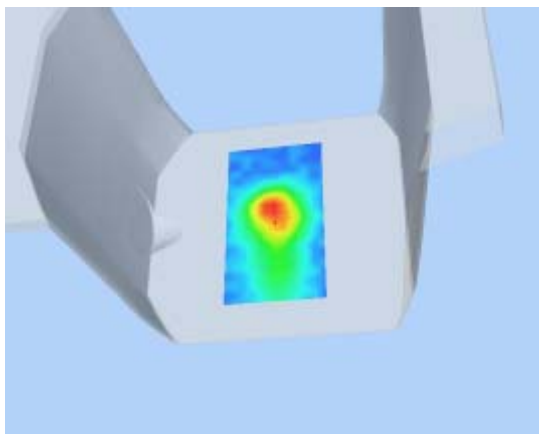
Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	1.2822	0.6773	0.3944	0.2087	0.1388	0.0558

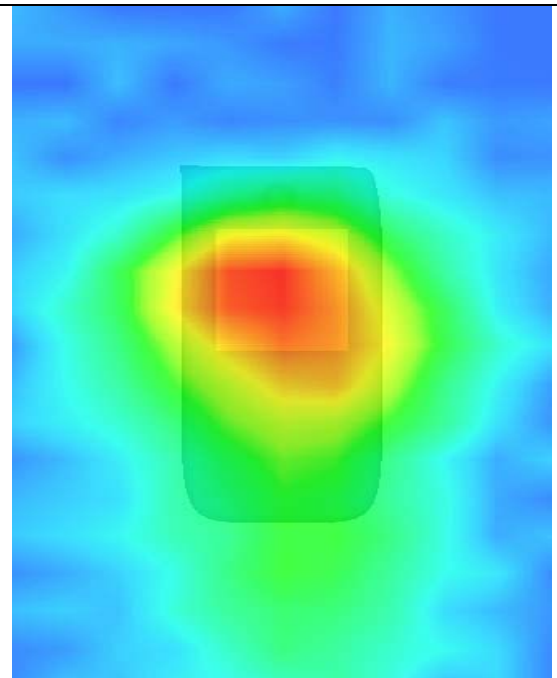
SAR, Z Axis Scan (X = -2, Y = 13)



3D scene shot



Hot spot position



MEASUREMENT 16

Type: Phone measurement (Complete)

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

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

Date of measurement: 24/8/2010

Measurement duration: 13 minutes 6 seconds

A. Experimental conditions.

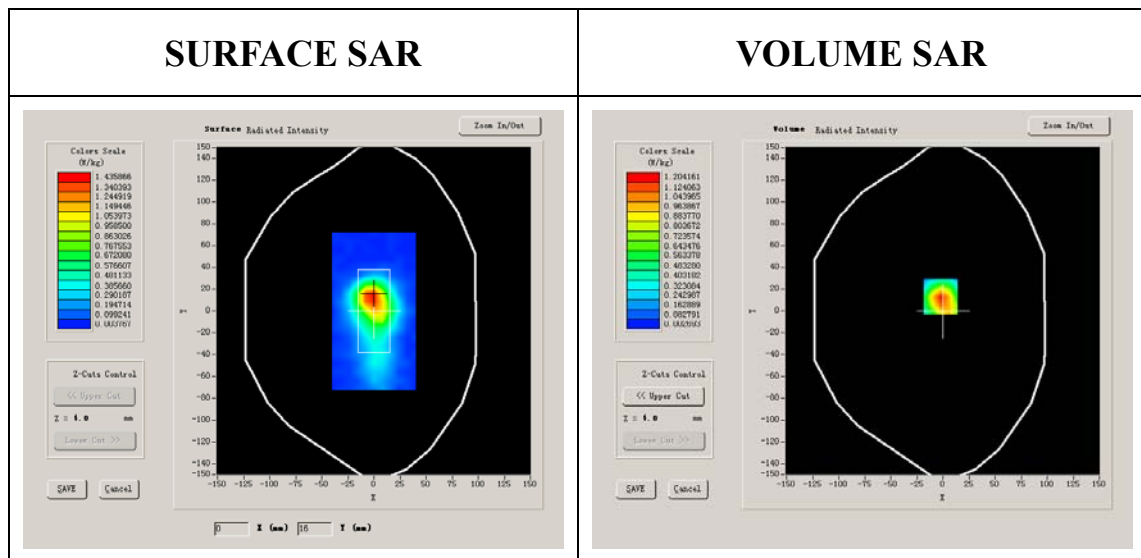
Phantom File	surf_sam_plan.txt
Phantom	Validation plane
Device Position	Body
Band	US_PCS
Channels	Middle
Signal	CDMA

B. SAR Measurement Results

Middle Band SAR (Channel 600):

Frequency (MHz)	1880.000000
Relative permittivity (real part)	51.903000
Relative permittivity	14.817600

Conductivity (S/m)	1.486632
Variation (%)	-0.700012
Ambient Temperature:	21.9°C
Liquid Temperature:	21.3°C
ConvF:	40.625,34.773,38.535
Crest factor:	1:1



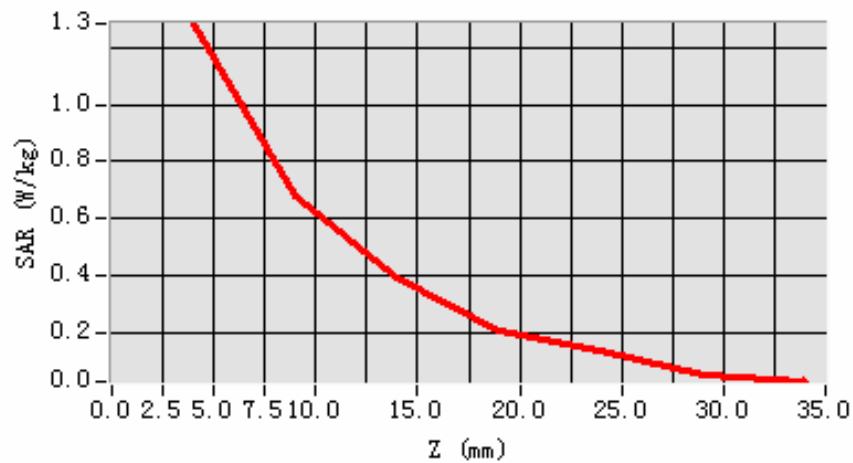
Maximum location: X=-2.00, Y=13.00

SAR 10g (W/Kg)	0.504774
SAR 1g (W/Kg)	0.982133

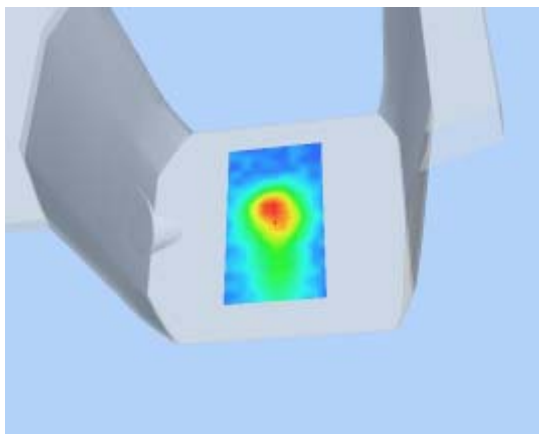
Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	1.2822	0.6773	0.3944	0.2087	0.1388	0.0558

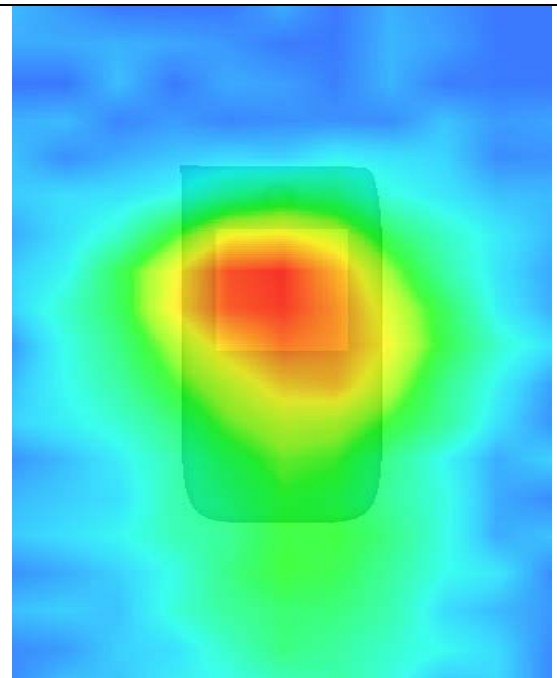
SAR, Z Axis Scan (X = -2, Y = 13)



3D scene shot



Hot spot position



MEASUREMENT 17

Type: Phone measurement (Complete)

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

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

Date of measurement: 24/8/2010

Measurement duration: 13 minutes 6 seconds

A. Experimental conditions.

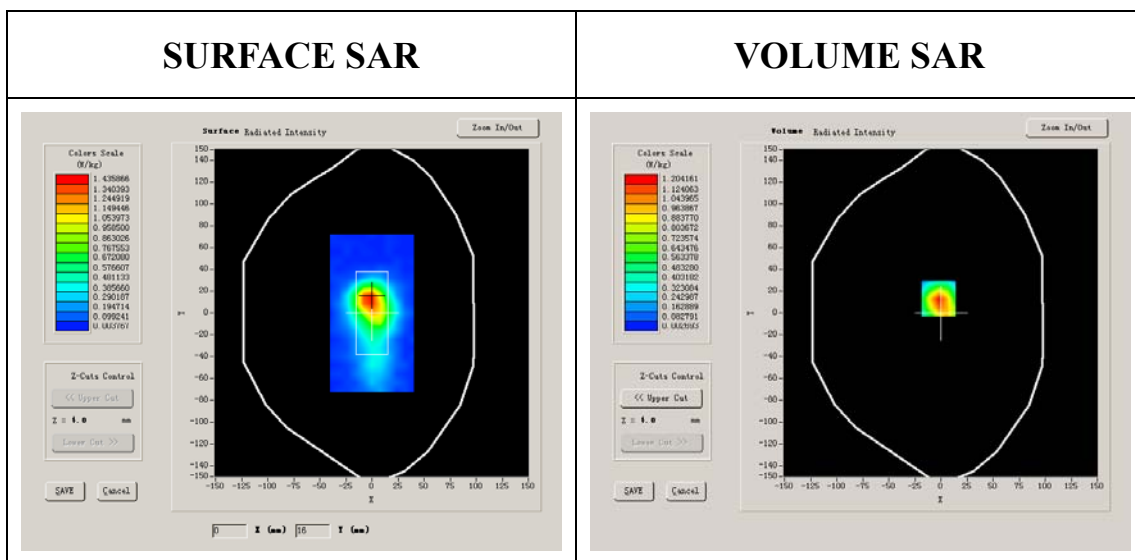
Phantom File	surf_sam_plan.txt
Phantom	Validation plane
Device Position	Body
Band	US_PCS
Channels	High
Signal	CDMA

B. SAR Measurement Results

Middle Band SAR (Channel 1175):

Frequency (MHz)	1908.750000
Relative permittivity (real part)	51.903000
Relative permittivity	14.817600

Conductivity (S/m)	1.486632
Variation (%)	-0.700012
Ambient Temperature:	21.9°C
Liquid Temperature:	21.3°C
ConvF:	40.625,34.773,38.535
Crest factor:	1:1



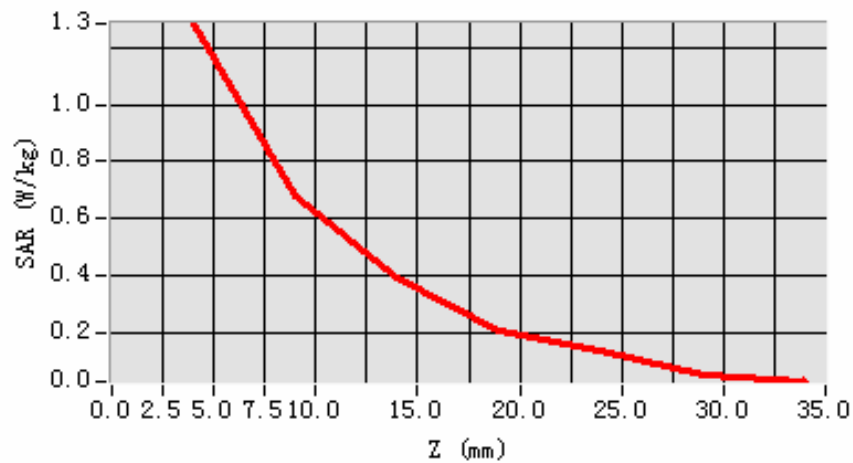
Maximum location: X=-2.00, Y=13.00

SAR 10g (W/Kg)	0.435774
SAR 1g (W/Kg)	0.893846

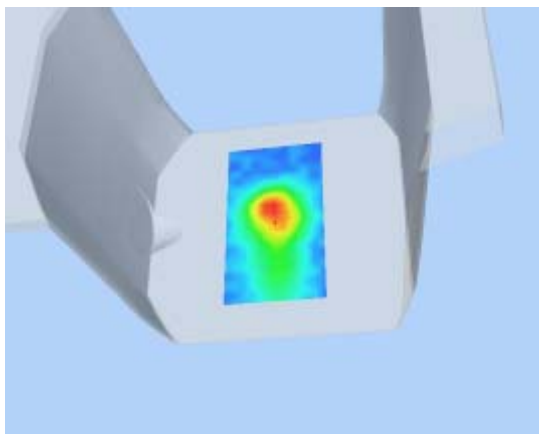
Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	1.2822	0.6773	0.3944	0.2087	0.1388	0.0558

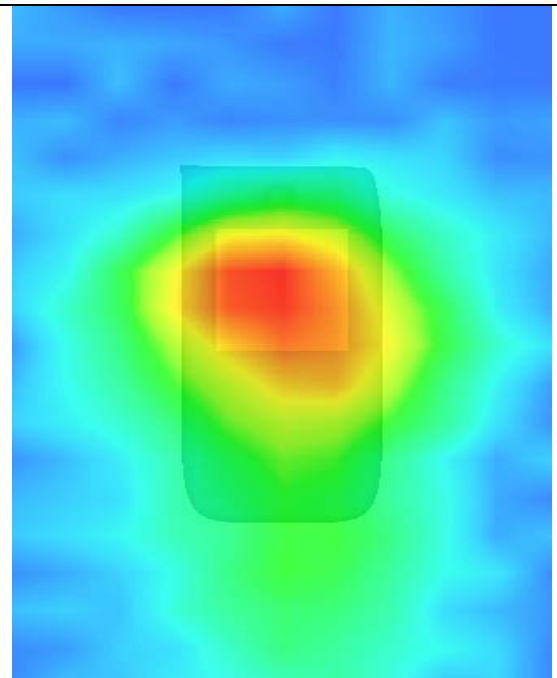
SAR, Z Axis Scan (X = -2, Y = 13)



3D scene shot



Hot spot position



MEASUREMENT 18

Type: Phone measurement (Complete)

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

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

Date of measurement: 24/8/2010

Measurement duration: 13 minutes 6 seconds

A. Experimental conditions.

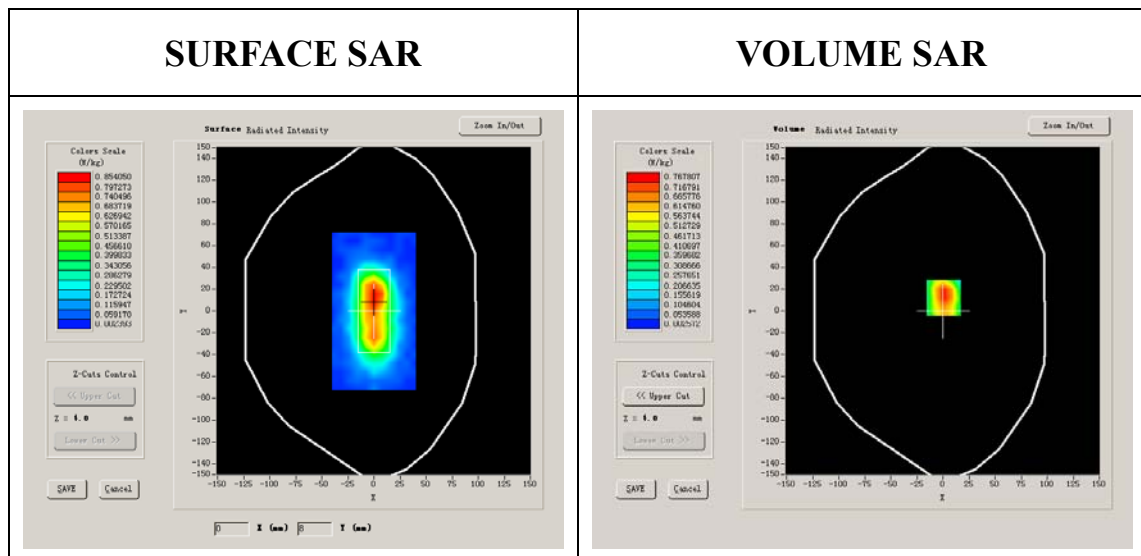
Phantom File	surf_sam_plan.txt
Phantom	Validation plane
Device Position	Body
Band	US_PCS
Channels	Low
Signal	CDMA

B. SAR Measurement Results

Middle Band SAR (Channel 25):

Frequency (MHz)	1851.250000
Relative permittivity (real part)	51.903000
Relative permittivit	14.817600

Conductivity (S/m)	1.486632
Variation (%)	-3.479980
Ambient Temperature:	21.9°C
Liquid Temperature:	21.3°C
ConvF:	40.625,34.773,38.535
Crest factor:	1:1



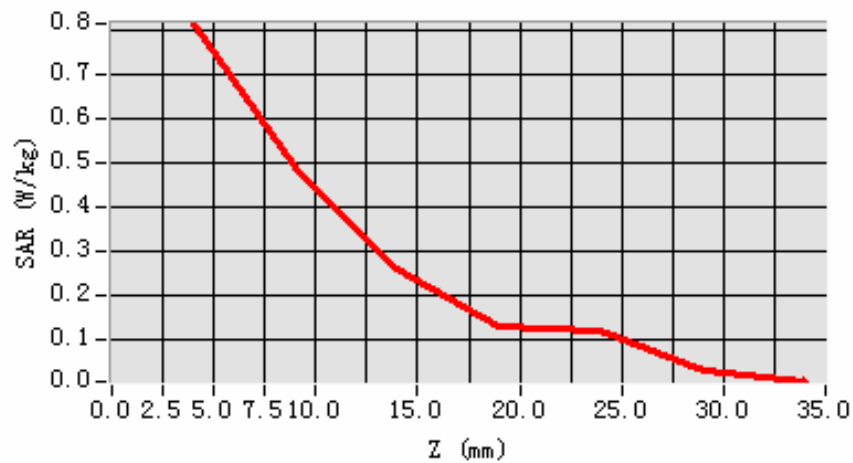
Maximum location: X=1.00, Y=12.00

SAR 10g (W/Kg)	0.536631
SAR 1g (W/Kg)	0.994144

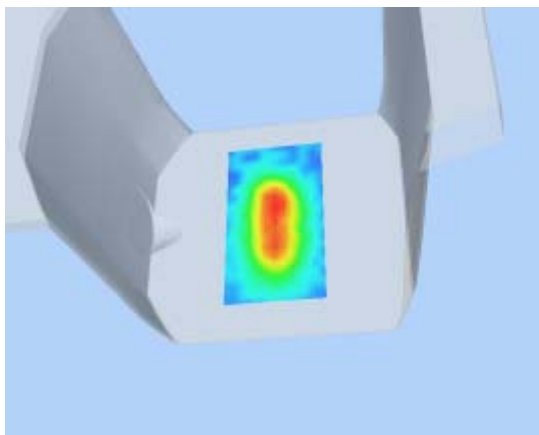
Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	0.8176	0.4907	0.2580	0.1286	0.1180	0.0284

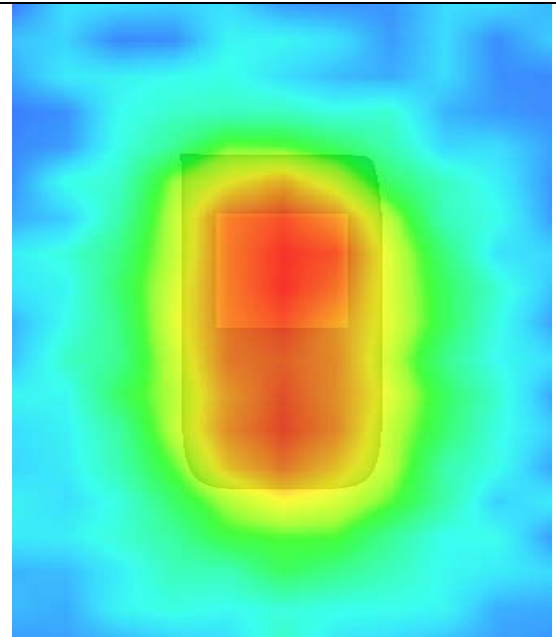
SAR, Z Axis Scan (X = 1, Y = 12)



3D scene shot



Hot spot position



MEASUREMENT 19

Type: Phone measurement (Complete)

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

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

Date of measurement: 24/8/2010

Measurement duration: 13 minutes 6 seconds

A. Experimental conditions.

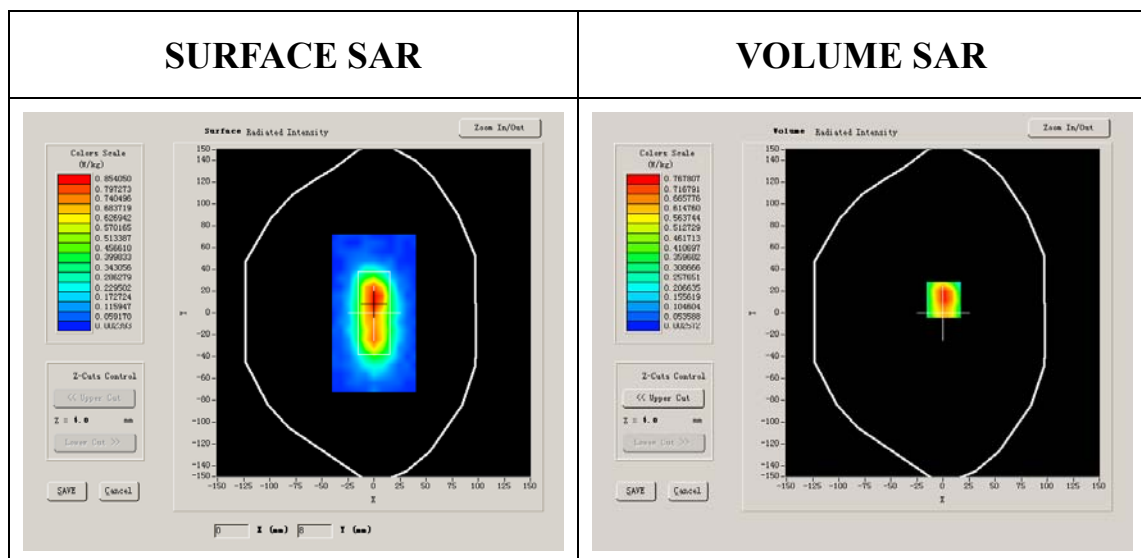
Phantom File	surf_sam_plan.txt
Phantom	Validation plane
Device Position	Body
Band	US_PCS
Channels	Middle
Signal	CDMA

B. SAR Measurement Results

Middle Band SAR (Channel 600):

Frequency (MHz)	1880.000000
Relative permittivity (real part)	51.903000
Relative permittivit	14.817600

Conductivity (S/m)	1.486632
Variation (%)	-3.479980
Ambient Temperature:	21.9°C
Liquid Temperature:	21.3°C
ConvF:	40.625,34.773,38.535
Crest factor:	1:1



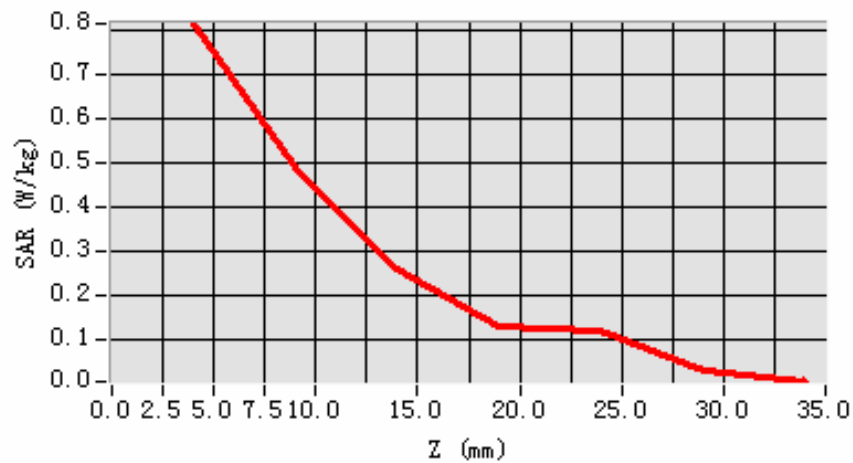
Maximum location: X=1.00, Y=12.00

SAR 10g (W/Kg)	0.665884
SAR 1g (W/Kg)	1.142846

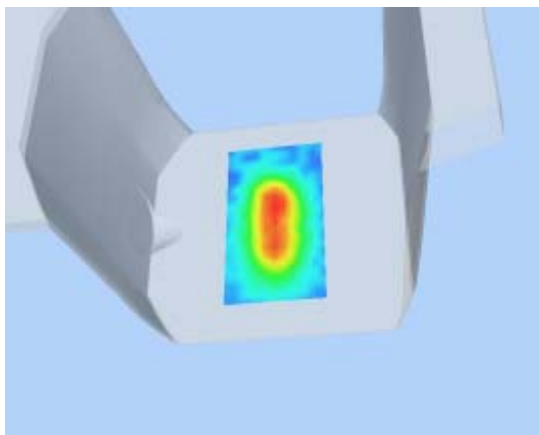
Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	0.8176	0.4907	0.2580	0.1286	0.1180	0.0284

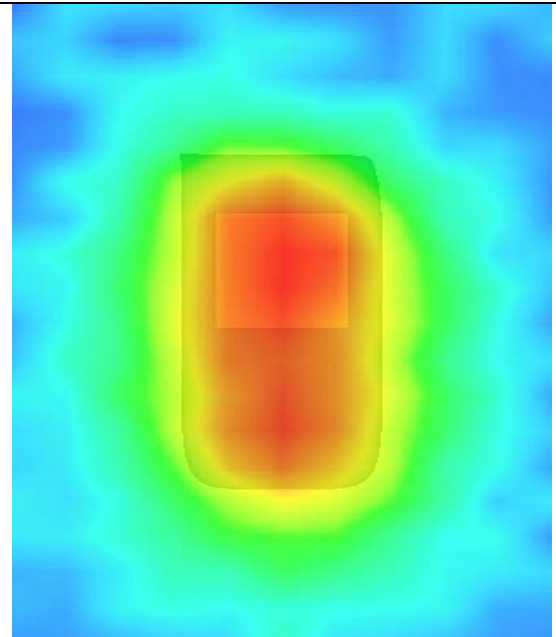
SAR, Z Axis Scan (X = 1, Y = 12)



3D scene shot



Hot spot position



MEASUREMENT 20

Type: Phone measurement (Complete)

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

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

Date of measurement: 24/8/2010

Measurement duration: 13 minutes 6 seconds

A. Experimental conditions.

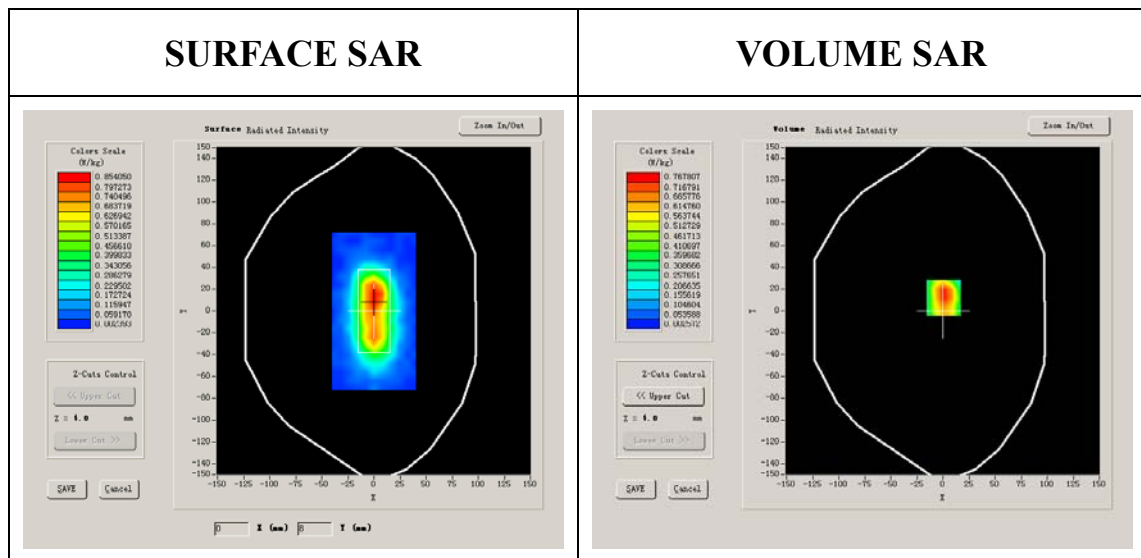
Phantom File	surf_sam_plan.txt
Phantom	Validation plane
Device Position	Body
Band	US_PCS
Channels	High
Signal	CDMA

B. SAR Measurement Results

Middle Band SAR (Channel 1175):

Frequency (MHz)	1908.750000
Relative permittivity (real part)	51.903000
Relative permittivit	14.817600

Conductivity (S/m)	1.486632
Variation (%)	-3.479980
Ambient Temperature:	21.9°C
Liquid Temperature:	21.3°C
ConvF:	40.625,34.773,38.535
Crest factor:	1:1



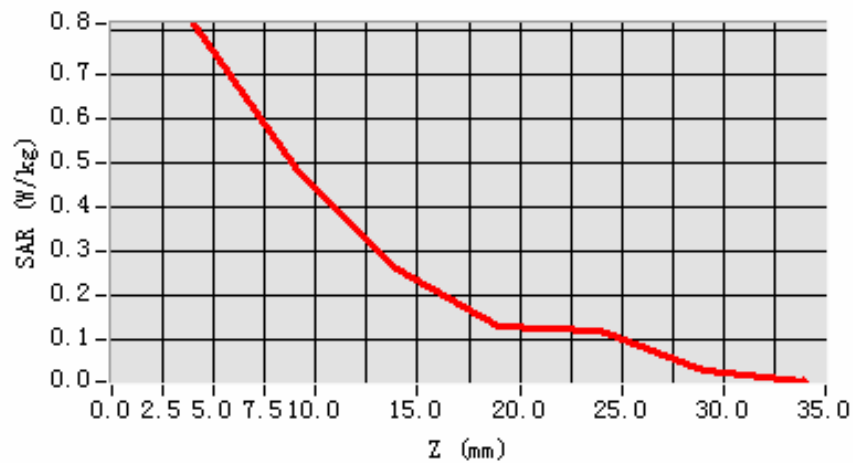
Maximum location: X=1.00, Y=12.00

SAR 10g (W/Kg)	0.626625
SAR 1g (W/Kg)	1.046846

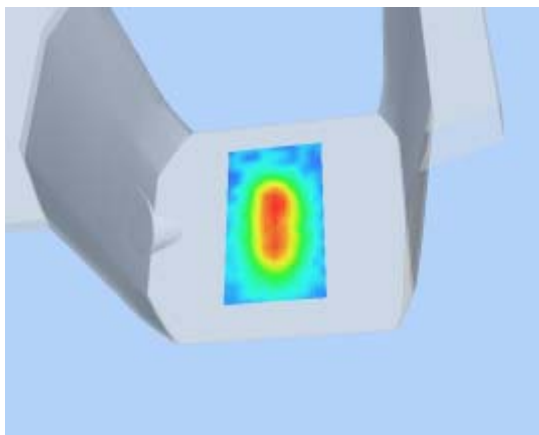
Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	0.8176	0.4907	0.2580	0.1286	0.1180	0.0284

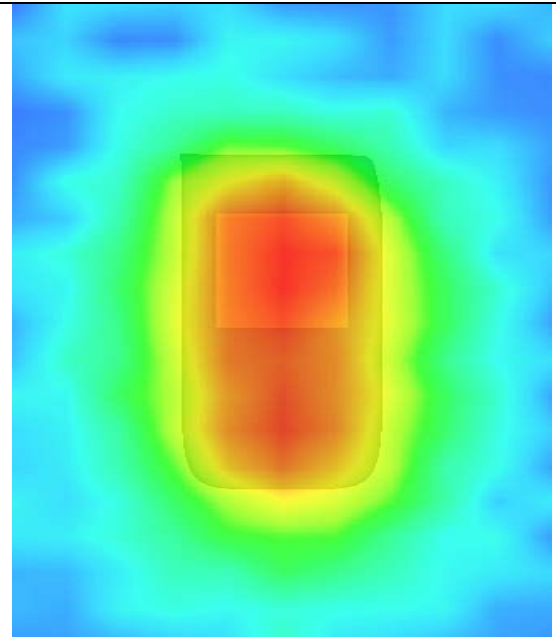
SAR, Z Axis Scan (X = 1, Y = 12)



3D scene shot



Hot spot position



MEASUREMENT 21

Type: Phone measurement (Complete)

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

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

Date of measurement: 24/8/2010

Measurement duration: 13 minutes 6 seconds

A. Experimental conditions.

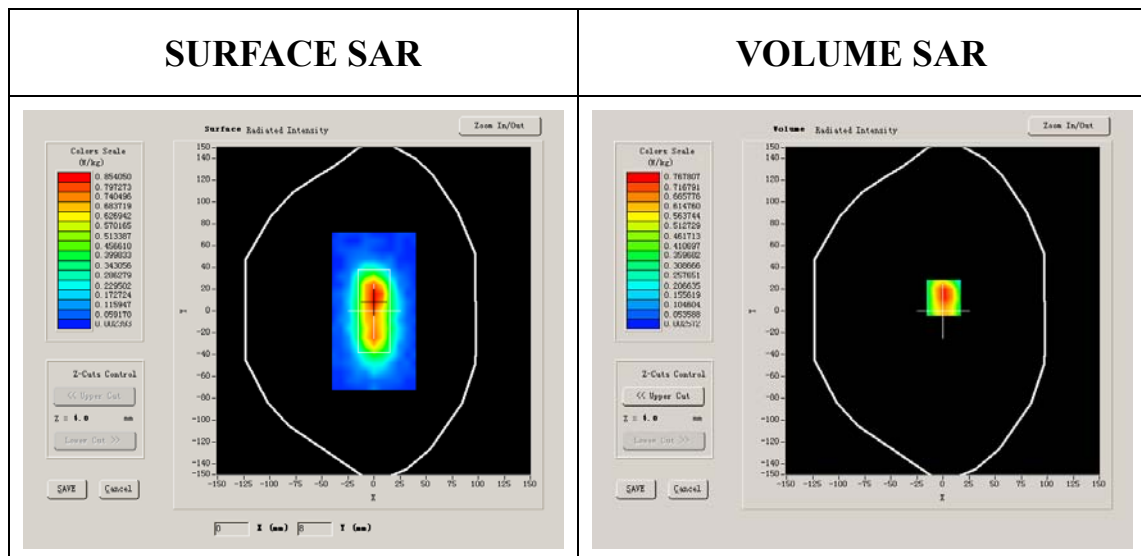
Phantom File	surf_sam_plan.txt
Phantom	Validation plane
Device Position	Body
Band	US_PCS
Channels	Low
Signal	CDMA

B. SAR Measurement Results

Middle Band SAR (Channel 25):

Frequency (MHz)	1851.250000
Relative permittivity (real part)	51.903000
Relative permittivit	14.817600

Conductivity (S/m)	1.486632
Variation (%)	-3.479980
Ambient Temperature:	21.9°C
Liquid Temperature:	21.3°C
ConvF:	40.625,34.773,38.535
Crest factor:	1:1



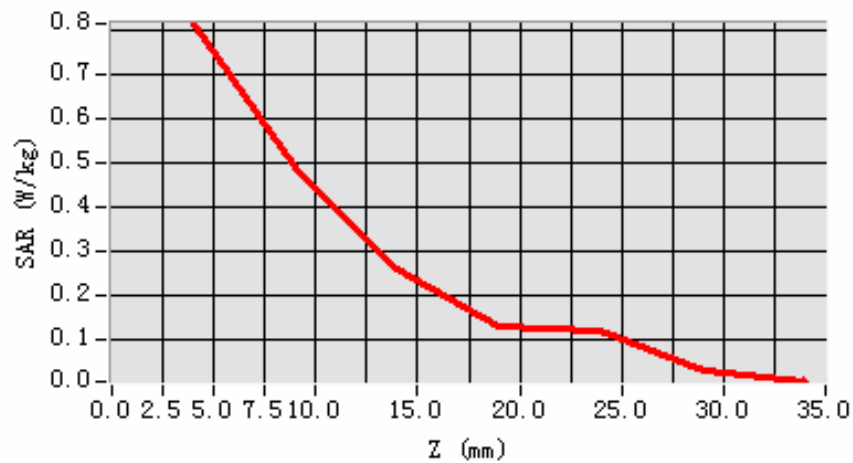
Maximum location: X=1.00, Y=12.00

SAR 10g (W/Kg)	0.347733
SAR 1g (W/Kg)	0.684177

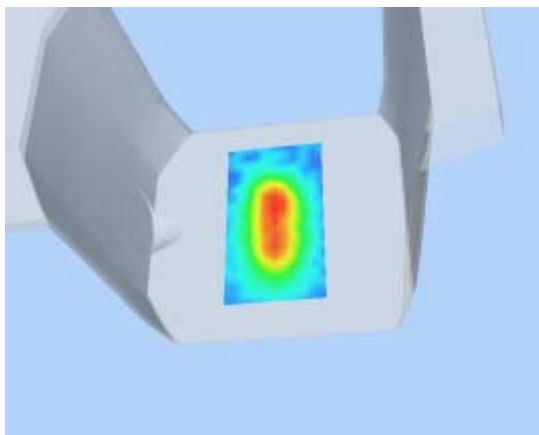
Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	0.8176	0.4907	0.2580	0.1286	0.1180	0.0284

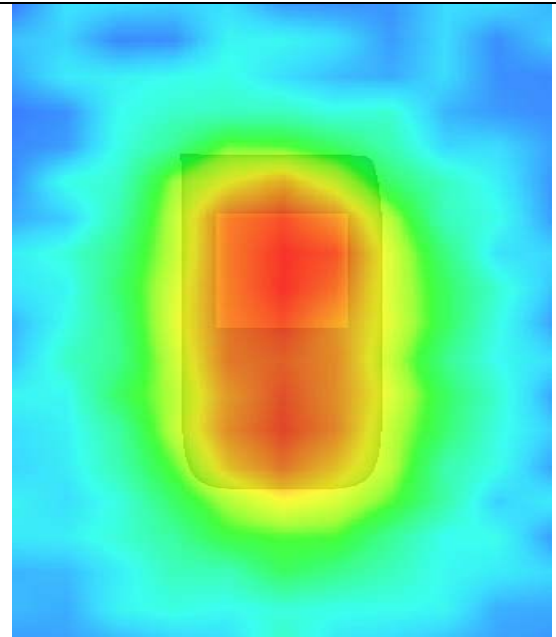
SAR, Z Axis Scan (X = 1, Y = 12)



3D scene shot



Hot spot position



MEASUREMENT 22

Type: Phone measurement (Complete)

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

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

Date of measurement: 24/8/2010

Measurement duration: 13 minutes 6 seconds

A. Experimental conditions.

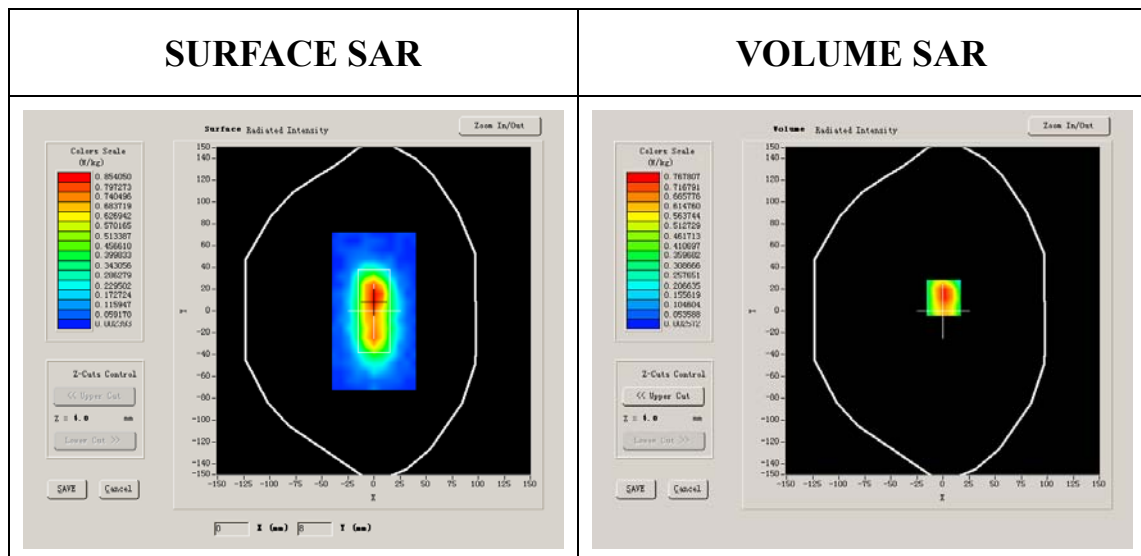
Phantom File	surf_sam_plan.txt
Phantom	Validation plane
Device Position	Body
Band	US_PCS
Channels	Middle
Signal	CDMA

B. SAR Measurement Results

Middle Band SAR (Channel 600):

Frequency (MHz)	1880.000000
Relative permittivity (real part)	51.903000
Relative permittivit	14.817600

Conductivity (S/m)	1.486632
Variation (%)	-3.479980
Ambient Temperature:	21.9°C
Liquid Temperature:	21.3°C
ConvF:	40.625,34.773,38.535
Crest factor:	1:1



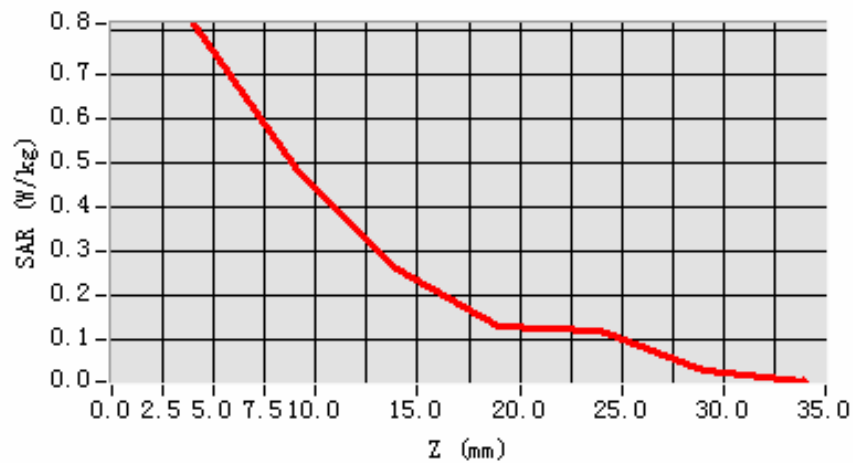
Maximum location: X=1.00, Y=12.00

SAR 10g (W/Kg)	0.394774
SAR 1g (W/Kg)	0.789355

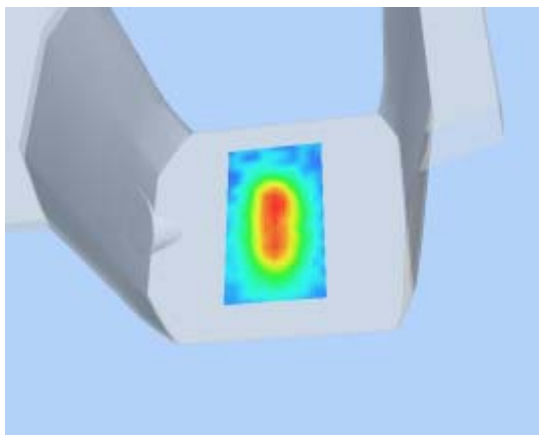
Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	0.8176	0.4907	0.2580	0.1286	0.1180	0.0284

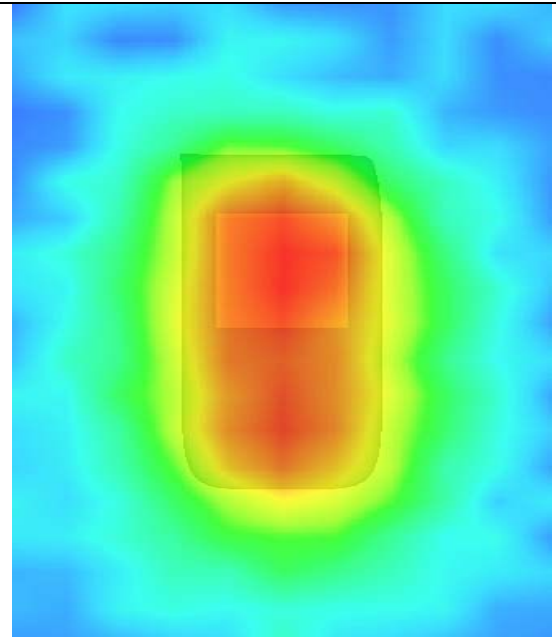
SAR, Z Axis Scan (X = 1, Y = 12)



3D scene shot



Hot spot position



MEASUREMENT 23

Type: Phone measurement (Complete)

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

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

Date of measurement: 24/8/2010

Measurement duration: 13 minutes 6 seconds

A. Experimental conditions.

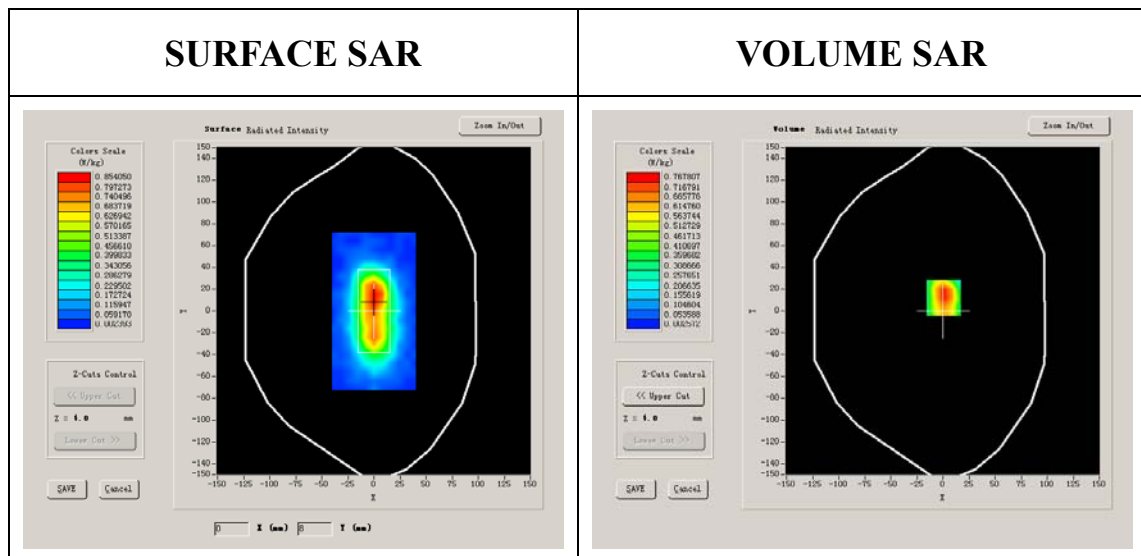
Phantom File	surf_sam_plan.txt
Phantom	Validation plane
Device Position	Body
Band	US_PCS
Channels	High
Signal	CDMA

B. SAR Measurement Results

Middle Band SAR (Channel 1175):

Frequency (MHz)	1908.750000
Relative permittivity (real part)	51.903000
Relative permittivit	14.817600

Conductivity (S/m)	1.486632
Variation (%)	-3.479980
Ambient Temperature:	21.9°C
Liquid Temperature:	21.3°C
ConvF:	40.625,34.773,38.535
Crest factor:	1:1



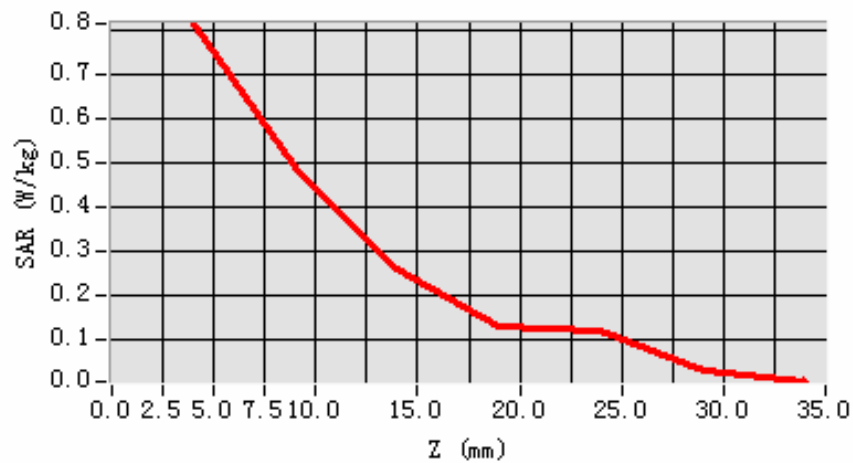
Maximum location: X=1.00, Y=12.00

SAR 10g (W/Kg)	0.351746
SAR 1g (W/Kg)	0.690267

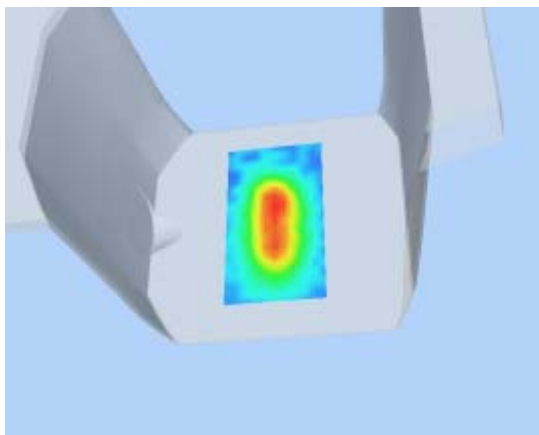
Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	0.8176	0.4907	0.2580	0.1286	0.1180	0.0284

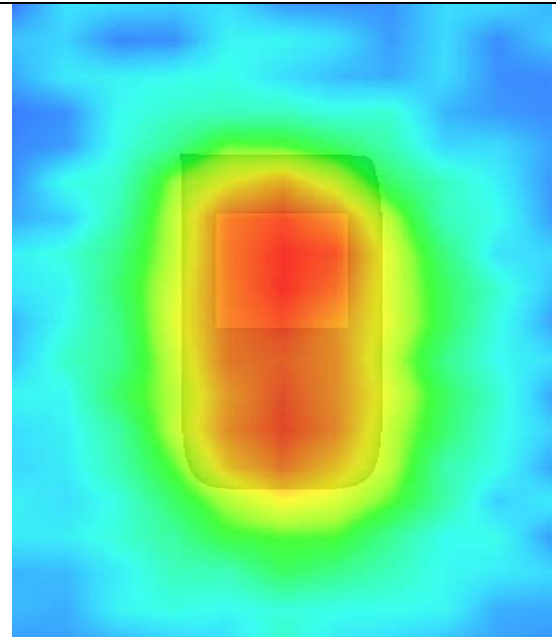
SAR, Z Axis Scan (X = 1, Y = 12)



3D scene shot



Hot spot position



MEASUREMENT 24

Type: Phone measurement (Complete)

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

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

Date of measurement: 24/8/2010

Measurement duration: 13 minutes 8 seconds

A. Experimental conditions.

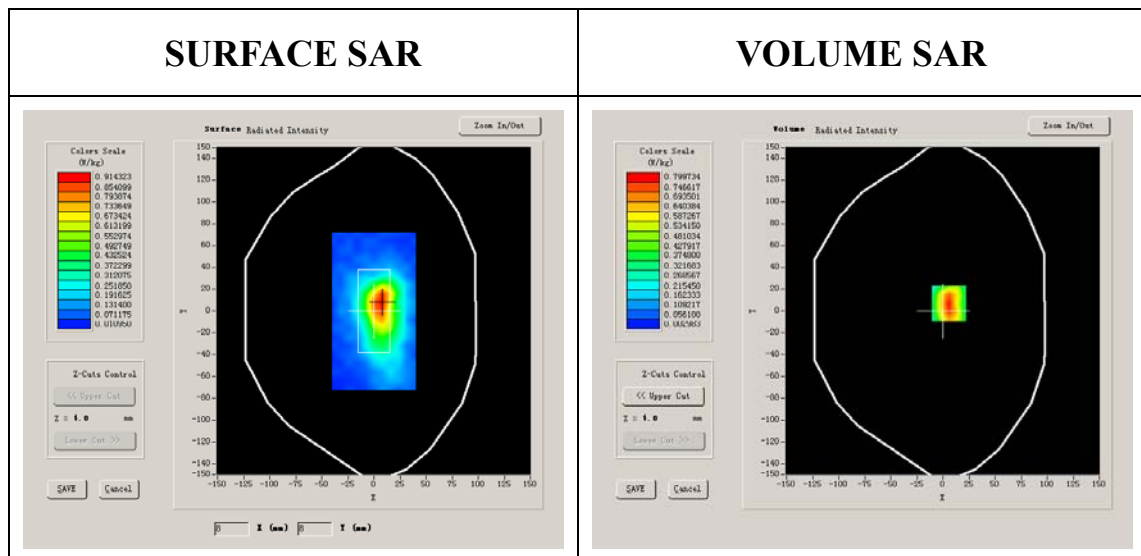
Phantom File	surf_sam_plan.txt
Phantom	Validation plane
Device Position	Body
Band	US_PCS
Channels	Low
Signal	CDMA

B. SAR Measurement Results

Middle Band SAR (Channel 25):

Frequency (MHz)	1851.250000
Relative permittivity (real part)	51.903000
Relative permittivity	14.817600

Conductivity (S/m)	1.486632
Variation (%)	-1.089996
Ambient Temperature:	21.9°C
Liquid Temperature:	21.3°C
ConvF:	40.625,34.773,38.535
Crest factor:	1:1



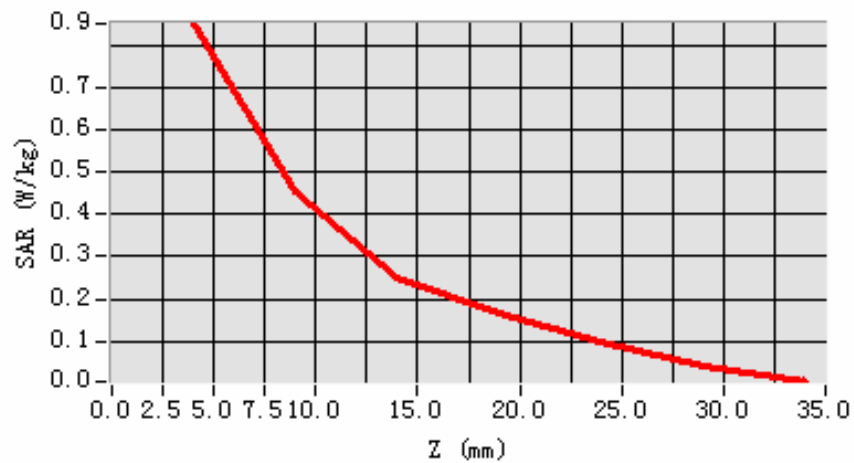
Maximum location: X=6.00, Y=7.00

SAR 10g (W/Kg)	0.284787
SAR 1g (W/Kg)	0.563184

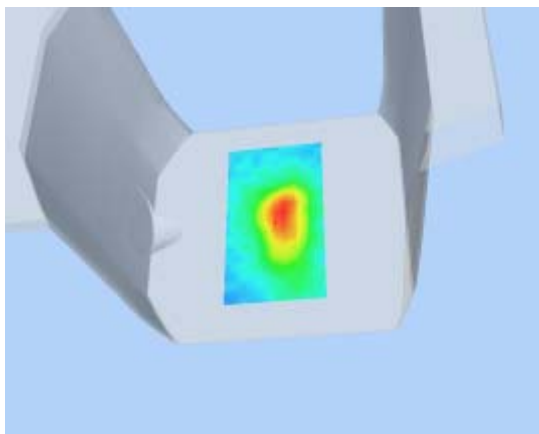
Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	0.8516	0.4540	0.2518	0.1638	0.0974	0.0415

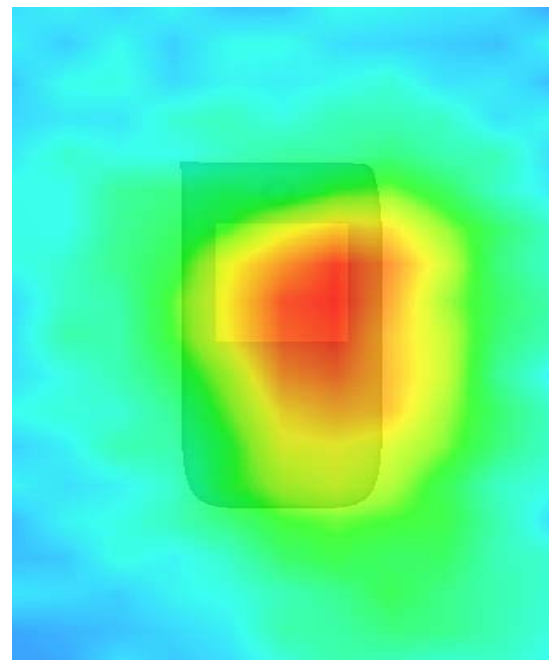
SAR, Z Axis Scan (X = 6, Y = 7)



3D scene shot



Hot spot position



MEASUREMENT 25

Type: Phone measurement (Complete)

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

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

Date of measurement: 24/8/2010

Measurement duration: 13 minutes 8 seconds

A. Experimental conditions.

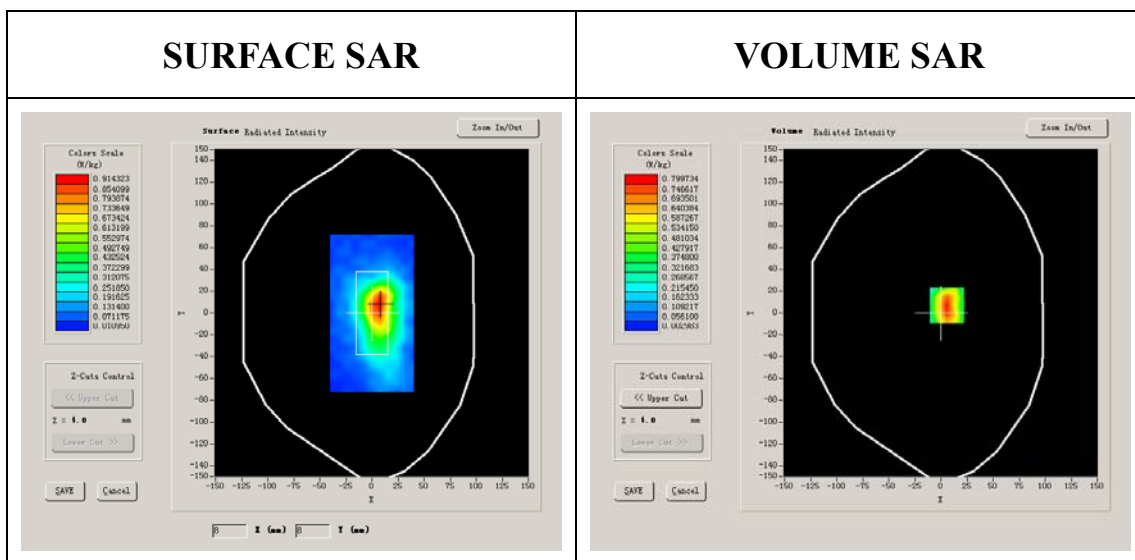
Phantom File	surf_sam_plan.txt
Phantom	Validation plane
Device Position	Body
Band	US_PCS
Channels	Middle
Signal	CDMA

B. SAR Measurement Results

Middle Band SAR (Channel 600):

Frequency (MHz)	1880.000000
Relative permittivity (real part)	51.903000
Relative permittivity	14.817600

Conductivity (S/m)	1.486632
Variation (%)	-1.089996
Ambient Temperature:	21.9°C
Liquid Temperature:	21.3°C
ConvF:	40.625,34.773,38.535
Crest factor:	1:1



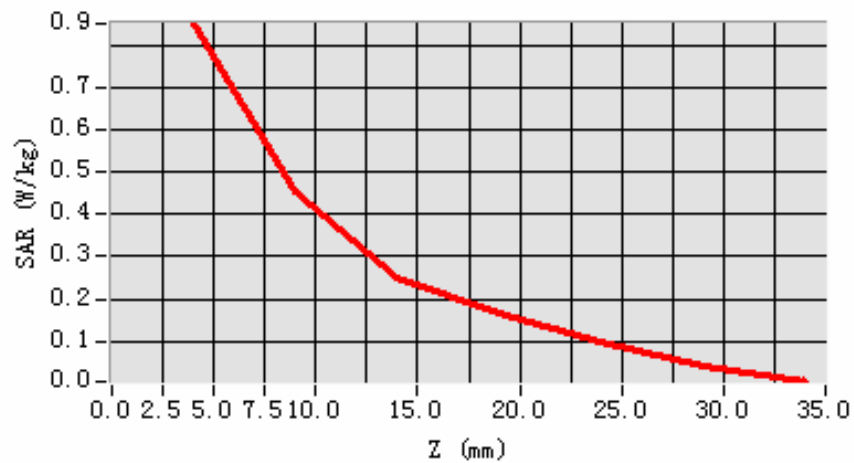
Maximum location: X=6.00, Y=7.00

SAR 10g (W/Kg)	0.317455
SAR 1g (W/Kg)	0.634735

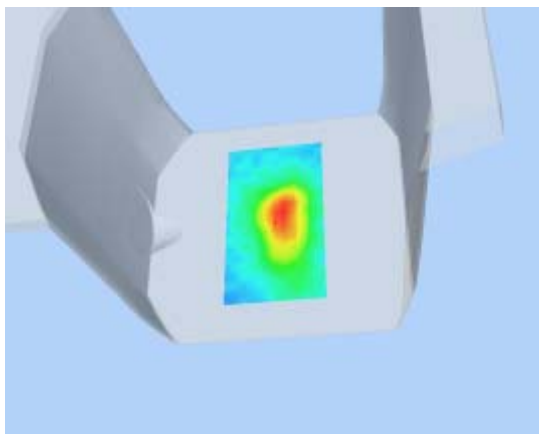
Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	0.8516	0.4540	0.2518	0.1638	0.0974	0.0415

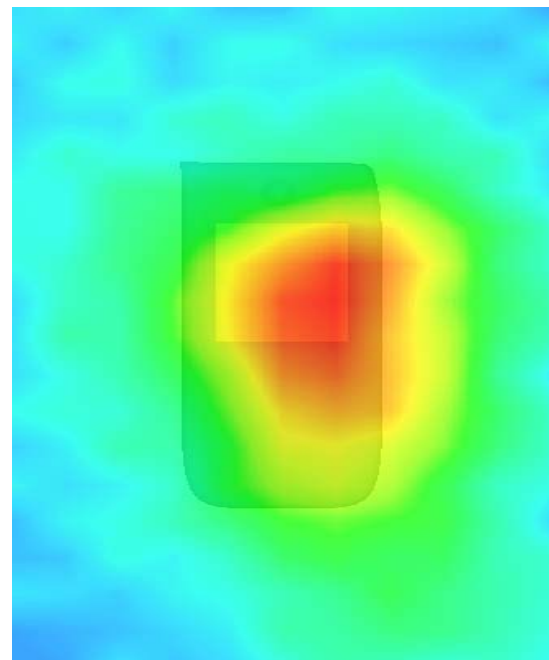
SAR, Z Axis Scan (X = 6, Y = 7)



3D scene shot



Hot spot position



MEASUREMENT 26

Type: Phone measurement (Complete)

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

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

Date of measurement: 24/8/2010

Measurement duration: 13 minutes 8 seconds

A. Experimental conditions.

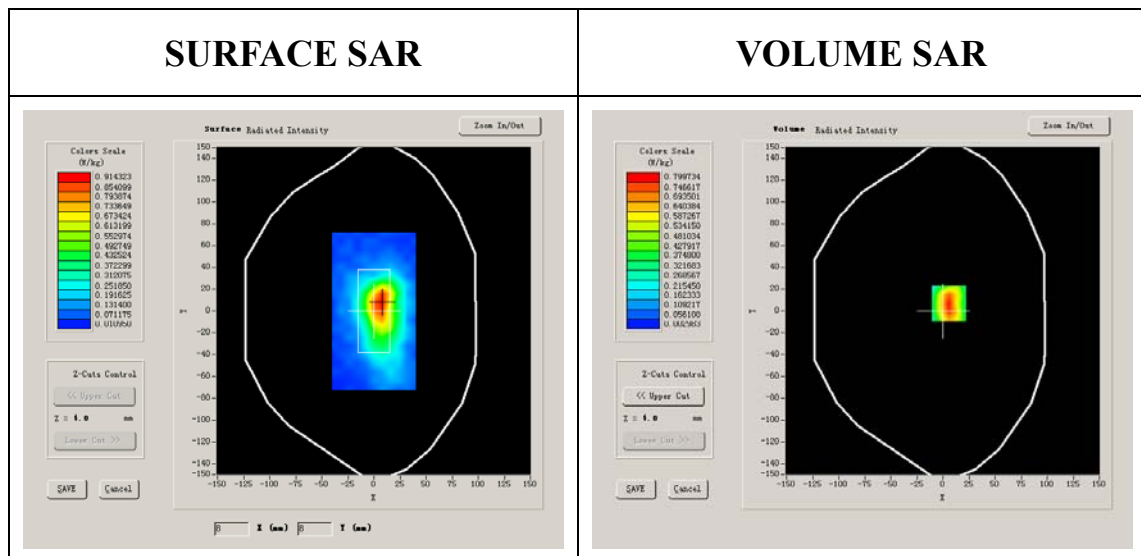
Phantom File	surf_sam_plan.txt
Phantom	Validation plane
Device Position	Body
Band	US_PCS
Channels	High
Signal	CDMA

B. SAR Measurement Results

Middle Band SAR (Channel 1175):

Frequency (MHz)	1908.750000
Relative permittivity (real part)	51.903000
Relative permittivity	14.817600

Conductivity (S/m)	1.486632
Variation (%)	-1.089996
Ambient Temperature:	21.9°C
Liquid Temperature:	21.3°C
ConvF:	40.625,34.773,38.535
Crest factor:	1:1



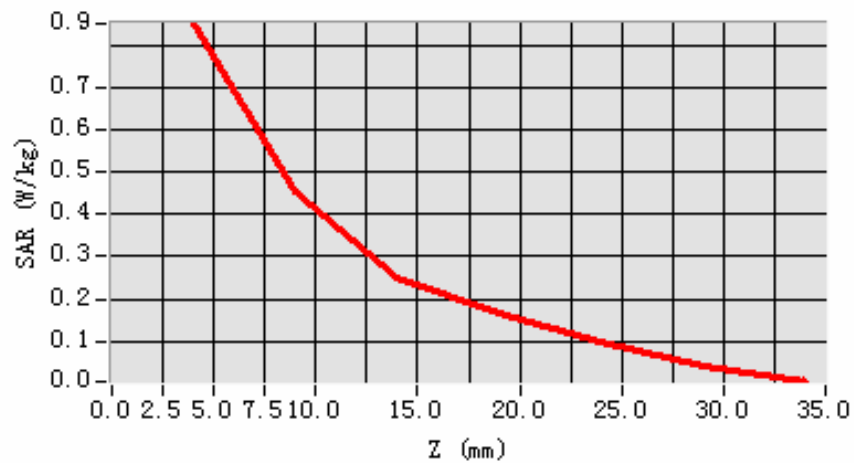
Maximum location: X=6.00, Y=7.00

SAR 10g (W/Kg)	0.300577
SAR 1g (W/Kg)	0.611784

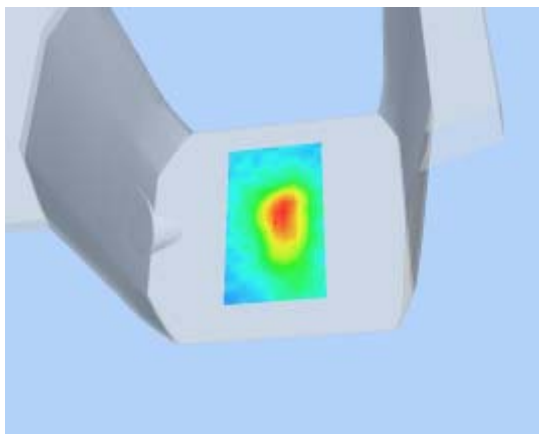
Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	0.8516	0.4540	0.2518	0.1638	0.0974	0.0415

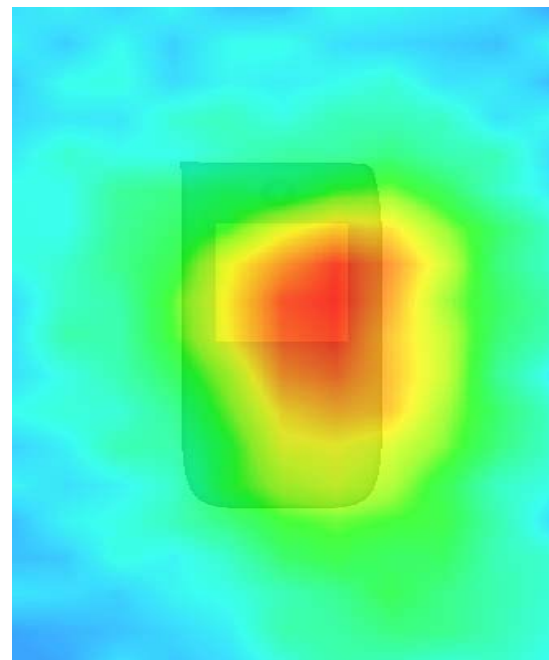
SAR, Z Axis Scan (X = 6, Y = 7)



3D scene shot



Hot spot position



MEASUREMENT 27

Type: Phone measurement (Complete)

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

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

Date of measurement: 24/8/2010

Measurement duration: 13 minutes 6 seconds

A. Experimental conditions.

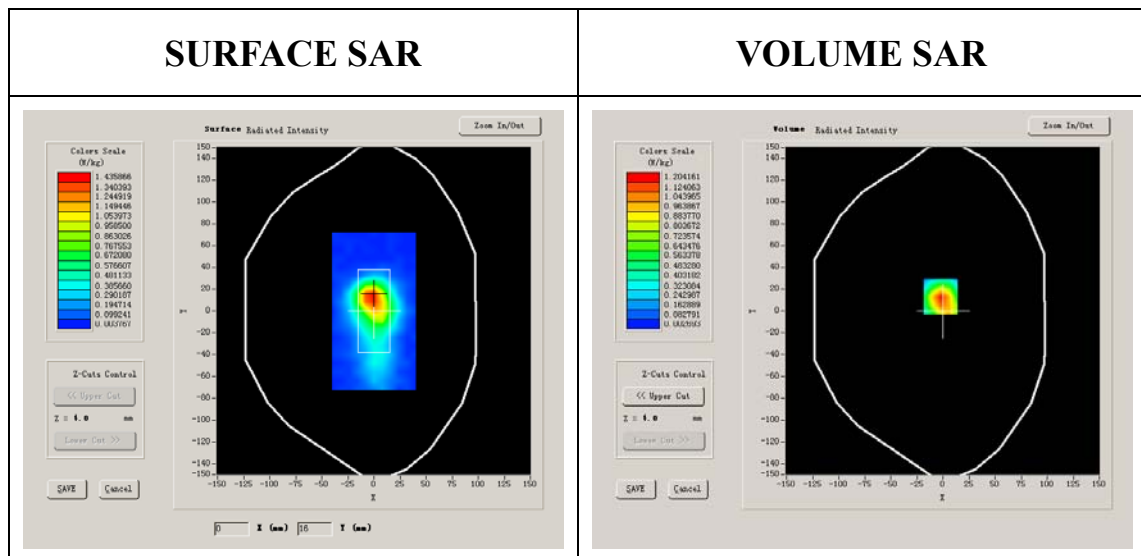
Phantom File	surf_sam_plan.txt
Phantom	Validation plane
Device Position	Body
Band	US_PCS
Channels	High
Signal	CDMA

B. SAR Measurement Results

Middle Band SAR (Channel 1175):

Frequency (MHz)	1908.750000
Relative permittivity (real part)	51.903000
Relative permittivity	14.817600

Conductivity (S/m)	1.486632
Variation (%)	-0.700012
Ambient Temperature:	21.9°C
Liquid Temperature:	21.3°C
ConvF:	40.625,34.773,38.535
Crest factor:	1:1



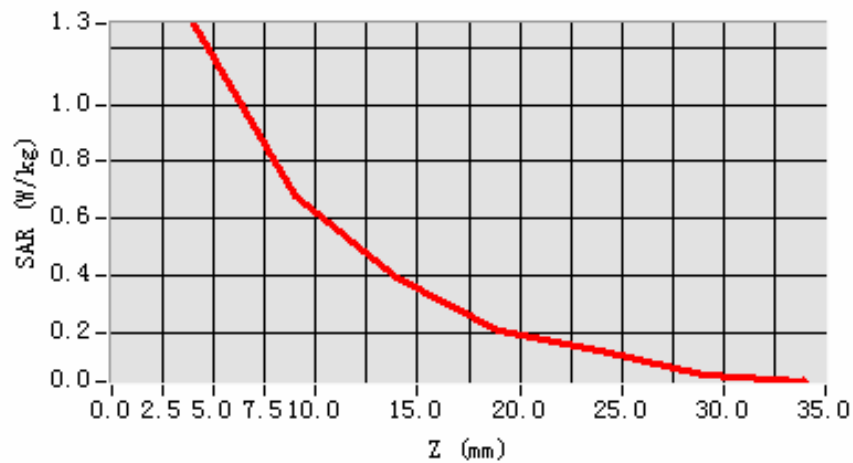
Maximum location: X=-2.00, Y=13.00

SAR 10g (W/Kg)	0.594773
SAR 1g (W/Kg)	1.009474

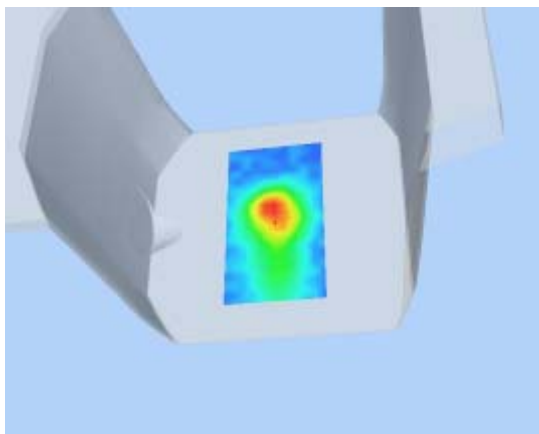
Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	1.2822	0.6773	0.3944	0.2087	0.1388	0.0558

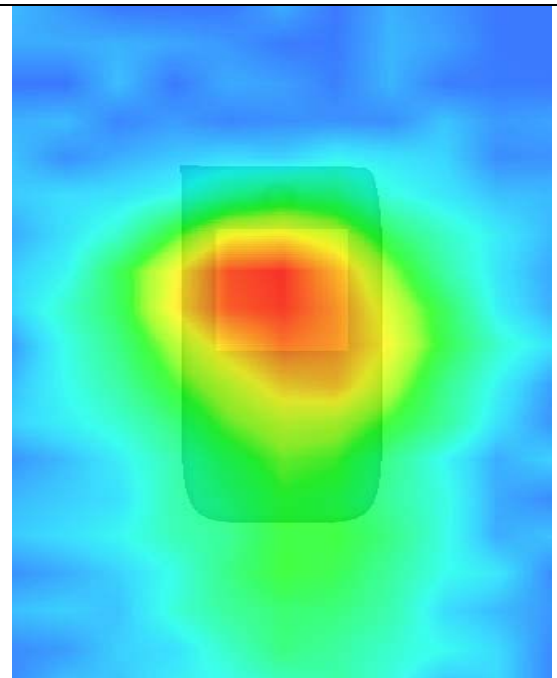
SAR, Z Axis Scan (X = -2, Y = 13)



3D scene shot



Hot spot position



MEASUREMENT 28

Type: Phone measurement (Complete)

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

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

Date of measurement: 24/8/2010

Measurement duration: 13 minutes 9 seconds

A. Experimental conditions.

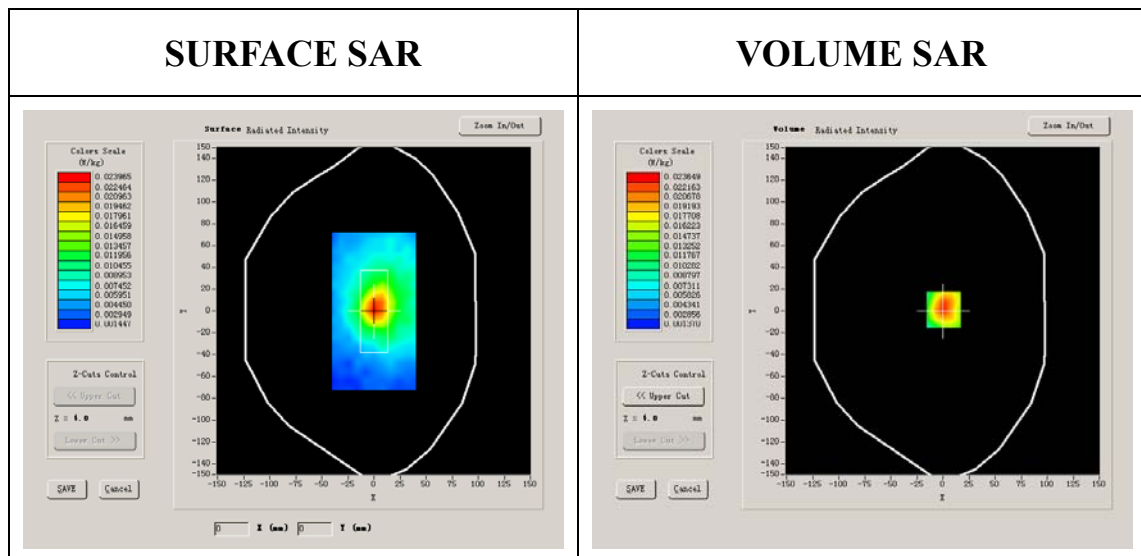
Phantom File	surf_sam_plan.txt
Phantom	Validation plane
Device Position	Body
Band	US_PCS
Channels	High
Signal	CDMA

B. SAR Measurement Results

Higher Band SAR (Channel 1175):

Frequency (MHz)	1908.750000
Relative permittivity (real part)	51.903000
Relative permittivity	21.284550

Conductivity (S/m)	1.003105
Variation (%)	-3.550000
Ambient Temperature:	21.9°C
Liquid Temperature:	21.3°C
ConvF:	40.625,34.773,38.535
Crest factor:	1:1



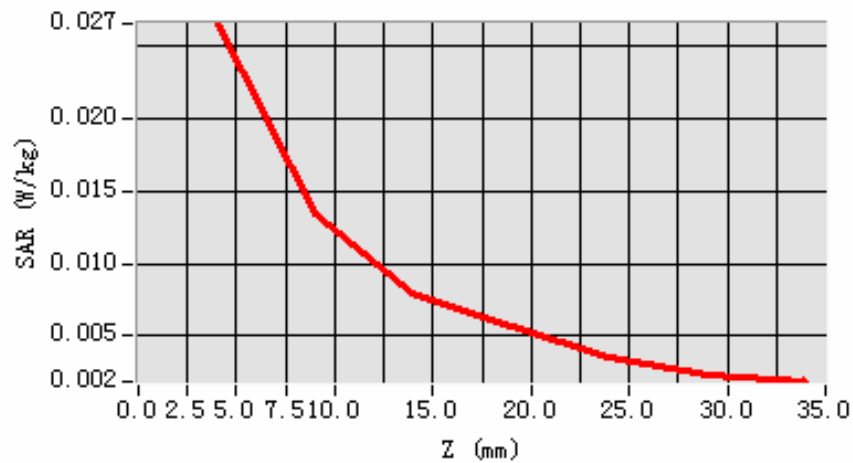
Maximum location: X=1.00, Y=1.00

SAR 10g (W/Kg)	0.323553
SAR 1g (W/Kg)	0.573624

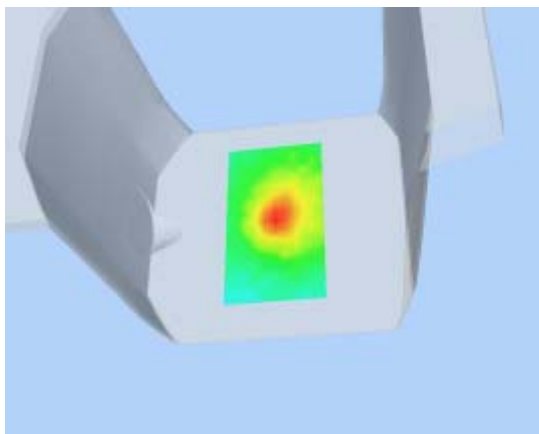
Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	1.0370	0.5967	0.3524	0.2147	0.1334	0.0848

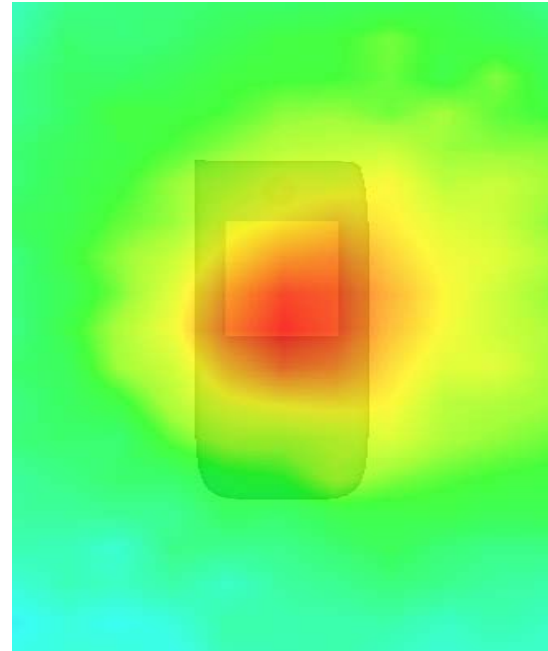
SAR, Z Axis Scan (X = 1, Y = 1)



3D scene shot



Hot spot position



System Performance Check Data(835MHz Body)

Type: Phone measurement (Complete)

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

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

Date of measurement: 24/8/2010

Measurement duration: 13 minutes 27 seconds

A. Experimental conditions.

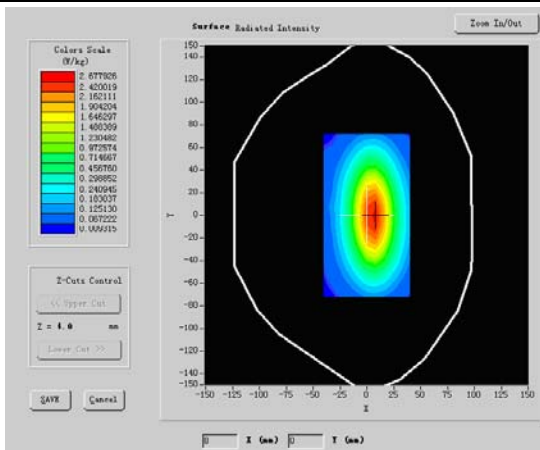
Phantom File	surf_sam_plan.txt
Phantom	Validation plane
Device Position	
Band	835MHz
Channels	
Signal	CW

B. SAR Measurement Results

Band SAR

Frequency (MHz)	835.000000
Relative permittivity (real part)	54.116001
Relative permittivity	15.070000

Conductivity (S/m)	0.989164
Variation (%)	-0.140000
Ambient Temperature:	22.5°C
Liquid Temperature:	22.4°C
ConvF:	28.599,25.681,27.588
Crest factor:	1:1

SURFACE SAR	VOLUME SAR
	

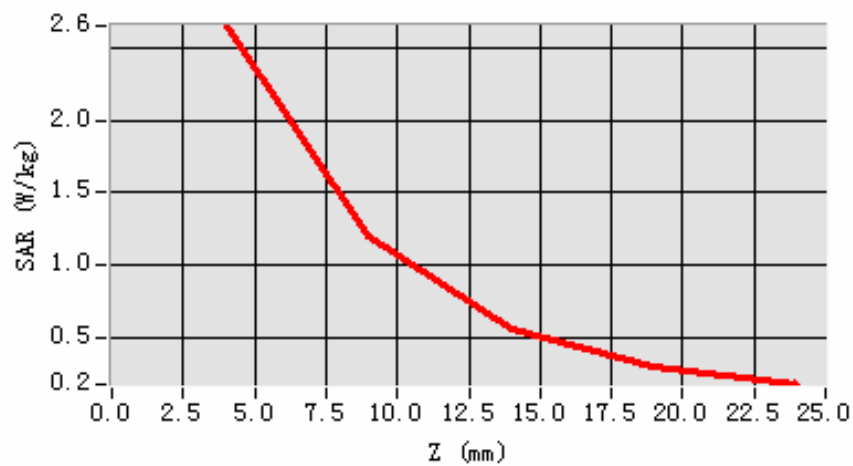
Maximum location: X=5.00, Y=1.00

SAR 10g (W/Kg)	1.616718
SAR 1g (W/Kg)	2.485631

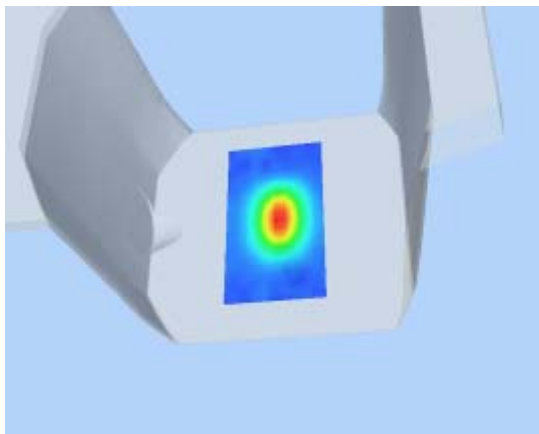
Z Axis Scan

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

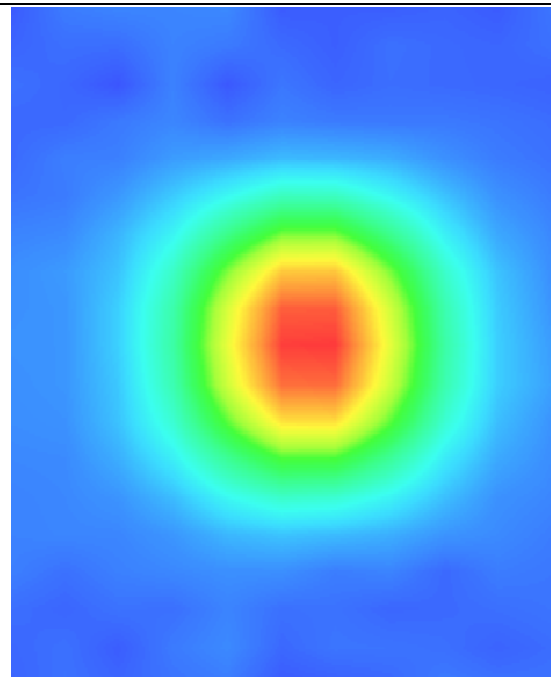
SAR, Z Axis Scan (X = 5, Y = 1)



3D sceen shot



Hot spot position



System Performance Check Data(1900MHz Body)

Type: Phone measurement (Complete)

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

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

Date of measurement: 24/8/2010

Measurement duration: 13 minutes 27 seconds

A. Experimental conditions.

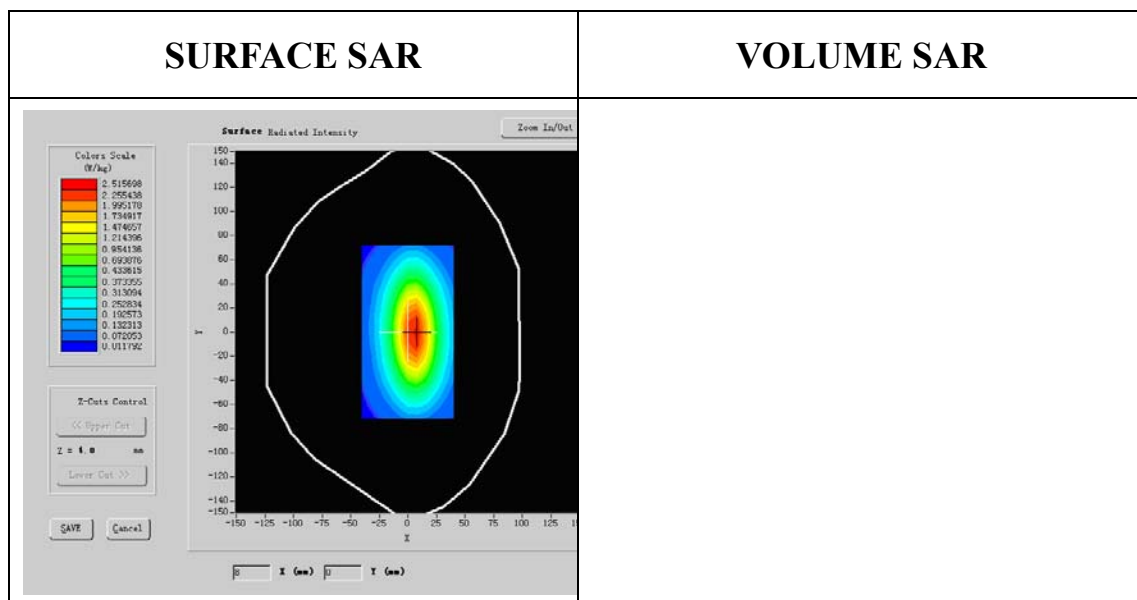
Phantom File	surf_sam_plan.txt
Phantom	Validation plane
Device Position	
Band	1800MHz
Channels	
Signal	CW

B. SAR Measurement Results

Band SAR:

Frequency (MHz)	1800.000000
Relative permittivity (real part)	51.903000
Relative permittivity	15.070000

Conductivity (S/m)	1.486632
Variation (%)	-0.140000
Ambient Temperature:	21.9°C
Liquid Temperature:	21.3°C
ConvF:	40.625,34.773,38.535
Crest factor:	1:1



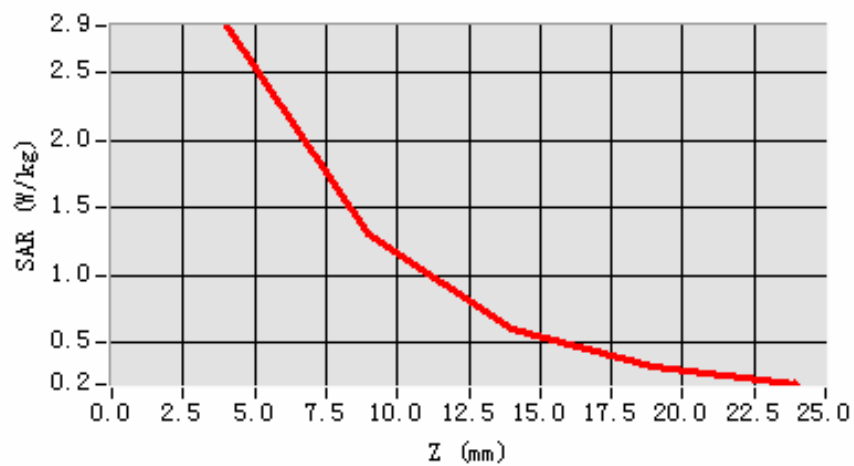
Maximum location: X=5.00, Y=1.00

SAR 10g (W/Kg)	5.313571
SAR 1g (W/Kg)	9.873483

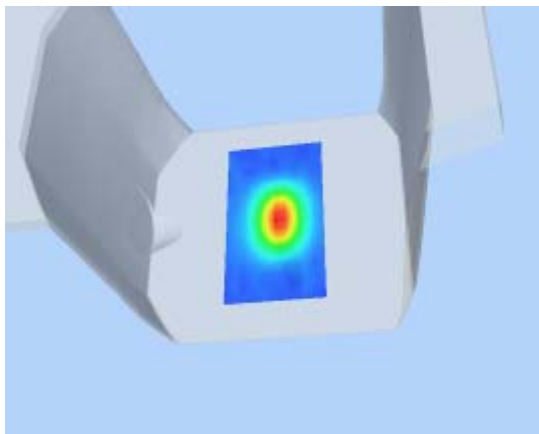
Z Axis Scan

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 = 5, Y = 1)



3D sceen shot



Hot spot position

