



## I. 850MHz Band RESULTS

<u>TYPE</u>	<u>PARAMETERS</u>
<b><u>Phone</u></b>	<u>Measurement 1:</u> Right Head with Cheek device position on Low Channel in GSM850 mode <u>Measurement 2:</u> Right Head with Cheek device position on Middle Channel in GSM850 mode <u>Measurement 3:</u> Right Head with Cheek device position on High Channel in GSM850 mode <u>Measurement 4:</u> Right Head with Tilt device position on Low Channel in GSM850 mode <u>Measurement 5:</u> Right Head with Tilt device position on Middle Channel in GSM850 mode <u>Measurement 6:</u> Right Head with Tilt device position on High Channel in GSM850 mode <u>Measurement 7:</u> Left Head with Cheek device position on Low Channel in GSM850 mode <u>Measurement 8:</u> Left Head with Cheek device position on Middle Channel in GSM850 mode <u>Measurement 9:</u> Left Head with Cheek device position on High Channel in GSM850 mode <u>Measurement 10:</u> Left Head with Tilt device position on Low Channel in GSM850 mode <u>Measurement 11:</u> Left Head with Tilt device position on Middle Channel in GSM850 mode <u>Measurement 12:</u> Left Head with Tilt device position on High Channel in GSM850 mode <u>Measurement 13:</u> FrontSide toward phantom 15mm, Low Channel in GSM850 mode <u>Measurement 14:</u> FrontSide toward phantom 15mm, Middle Channel in GSM850 mode <u>Measurement 15:</u> FrontSide toward phantom 15mm, High Channel in GSM850 mode <u>Measurement 16:</u> BackSide toward phantom 15mm, Low Channel in GSM 850 mode <u>Measurement 17:</u> BackSide toward phantom 15mm, Middle Channel in GSM S850 mode <u>Measurement 18:</u> BackSide toward phantom 15mm, High Channel in GSM 850 mode



## MEASUREMENT 1

Date of measurement: 1/11/2010

Area Scan: 7 x 7 x 1

dx=15mm

dy=15mm

Zoom Scan: 5 x 5 x 7

dx=5mm

dy=5mm

dz=5mm

Z Axis Scan: 1 x 1 x 21

dx=20mm

dy=20mm

dz=5mm

### A. Experimental conditions.

Phantom File	zinf15.txt, Adaptive 2 max
Phantom	Right head
Device Position	Cheek
Band	GSM850
Channels	Low
Signal	GSM

### B. Instrumentations.

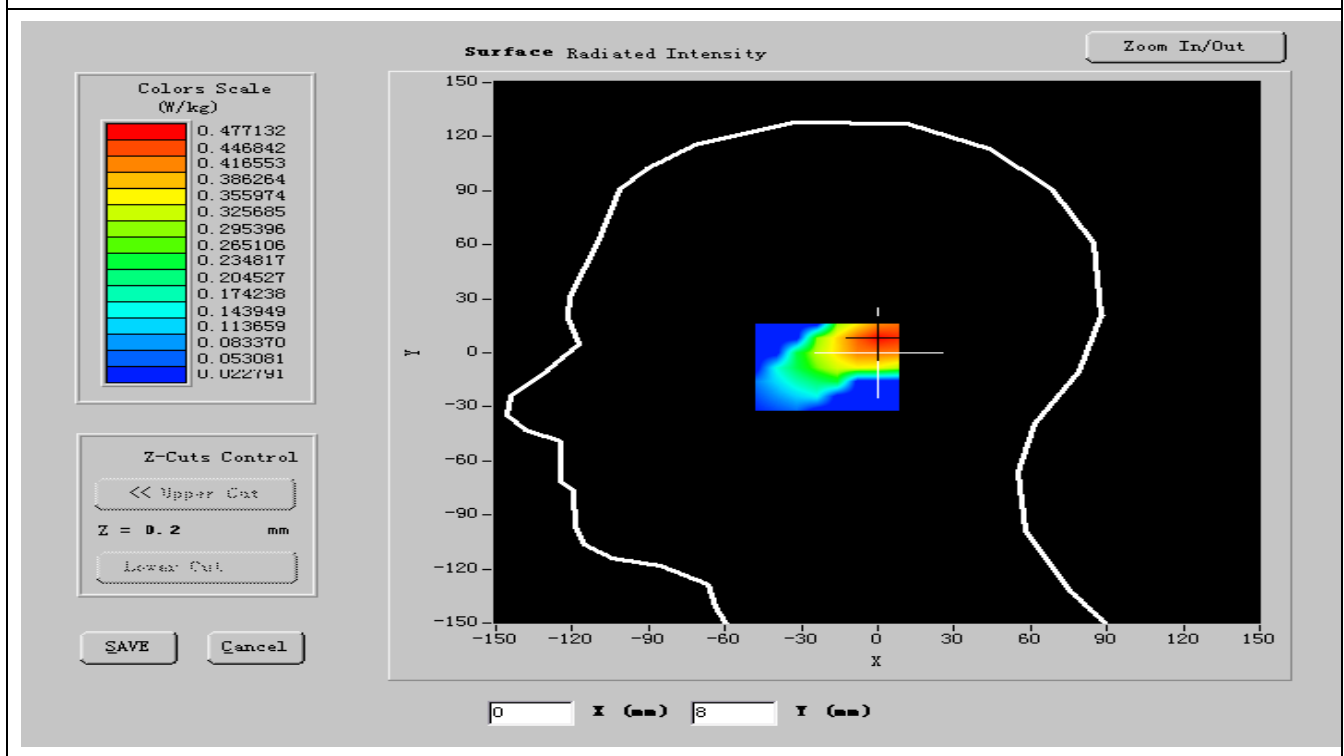
PC	HP (Pentium(R) V3.06GHz, SN:375052-AA1)	Calibration Due: N/A
Wireless Communication Test Set	R&S (CMU200, SN:B23-03291)	Calibration Due: 05/25/2011
Network Analyzer	Agilent(E5071B, MY42301382)	Calibration Due: 03/24/2011
Voltmeter	Keithley (2000, SN:1015843)	Calibration Due: 05/25/2011
Signal Generator	Agilent (E8257C, SN:MY43321570)	Calibration Due: 03/24/2011
Amplifier	Mini-Circuits (ZHL-42, SN:110405)	Calibration Due: 07/29/2011
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibration Due: 03/24/2011
Probe	Antennessa (SN:SN_1109_EP_100)	Calibration Due: 05/05/2011
DIPOLE 835	Antennessa (DIPI32,SN 48/05)	Calibration Due: 02/10/2011
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibration Due: N/A
Liquid	Antennessa	Calibration Due: N/A
Measurement SW	OPEN SAR V2.1	Calibration Due: N/A



## C. SAR Measurement Results

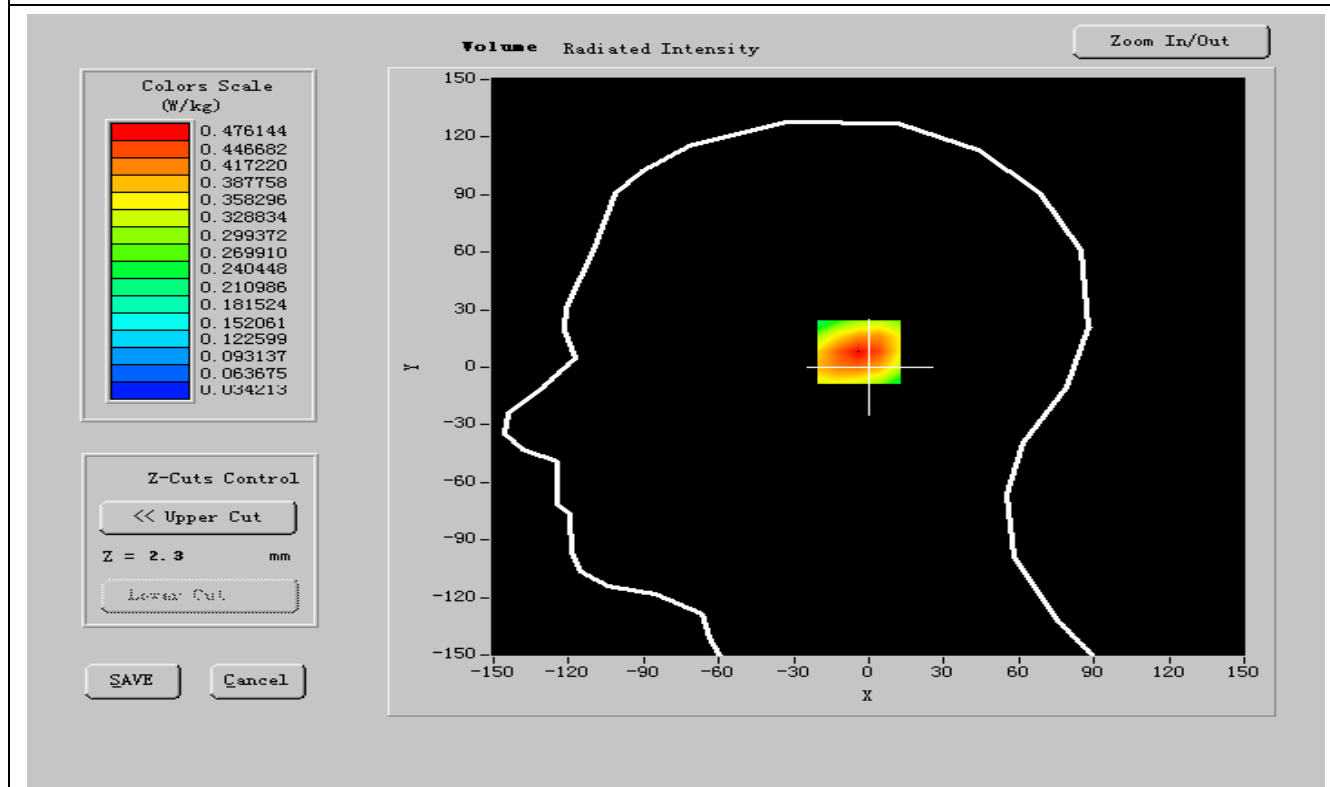
Frequency (MHz)	824.200012
Relative permittivity (real part)	41.466999
Relative permittivity (imaginary part)	19.511101
Conductivity (S/m)	0.923392
Variation (%)	-1.490000
Ambient Temperature:	21 °C
Liquid Temperature:	20 °C
ConvF:	20.66, 20.51, 28.36
Crest factor:	1:8

### SURFACE SAR





## VOLUME SAR



**Maximum location: X=-13.00, Y=-3.00**

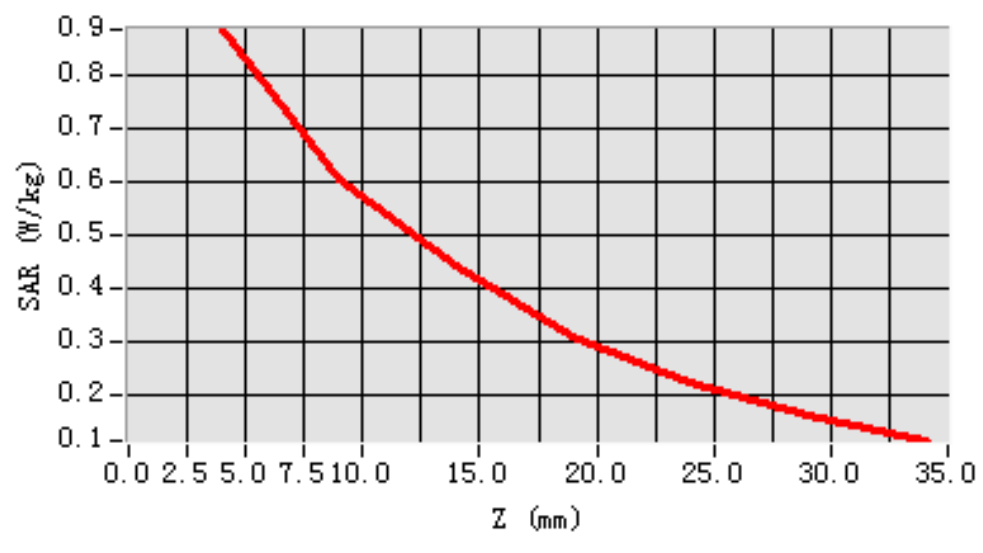
SAR 10g (W/Kg)	0.533416
SAR 1g (W/Kg)	0.831137

### Z Axis Scan

Z(mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/kg)	0.0000	0.8491	0.5876	0.4532	0.2756	0.1985	0.1465



**SAR, Z Axis Scan (X = -13, Y = -3)**





## MEASUREMENT 2

Date of measurement: 1/11/2010

Area Scan: 7 x 7 x 1

dx=15mm

dy=15mm

Zoom Scan: 5 x 5 x 7

dx=5mm

dy=5mm

dz=5mm

Z Axis Scan: 1 x 1 x 21

dx=20mm

dy=20mm

dz=5mm

### A. Experimental conditions.

Phantom File	zinf15.txt, Adaptive 2 max
Phantom	Right head
Device Position	Cheek
Band	GSM850
Channels	Middle
Signal	GSM

### B. Instrumentations.

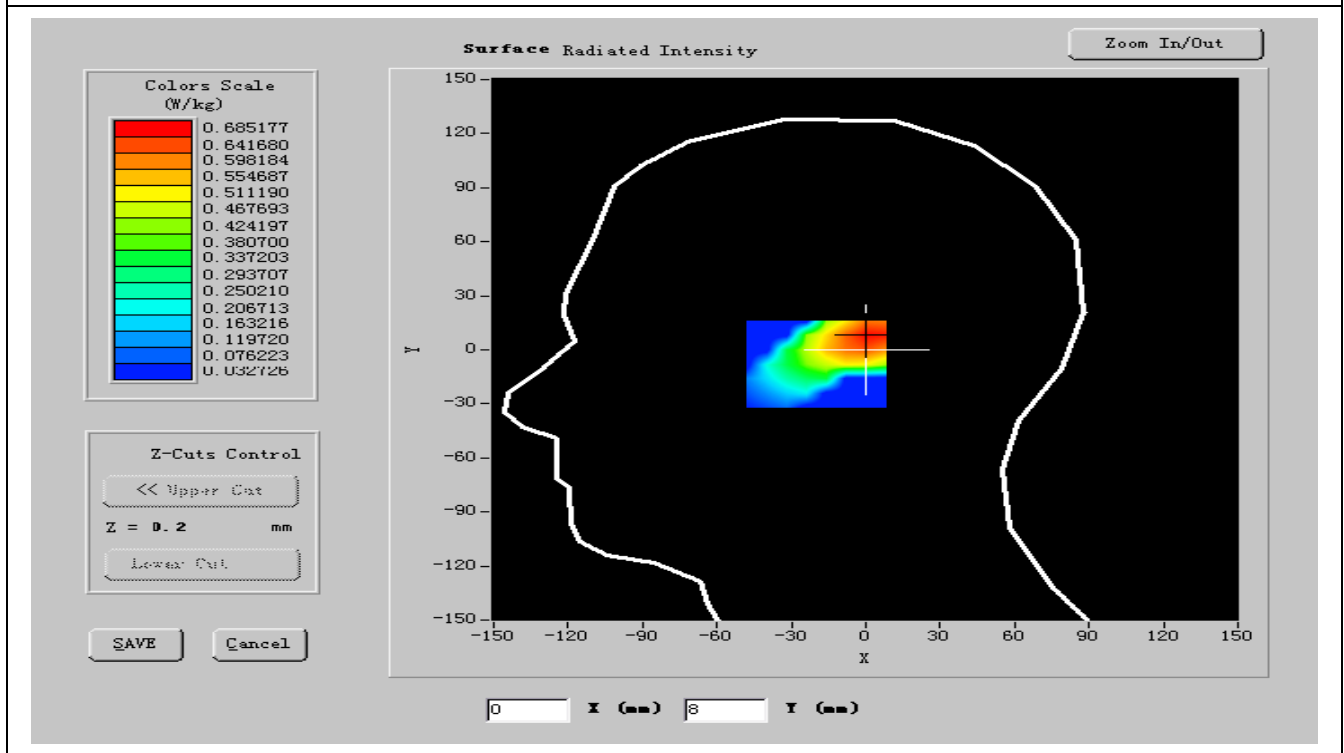
PC	HP (Pentium(R) V3.06GHz, SN:375052-AA1)	Calibration Due: N/A
Wireless Communication Test Set	R&S (CMU200, SN:B23-03291)	Calibration Due: 05/25/2011
Network Analyzer	Agilent(E5071B, MY42301382)	Calibration Due: 03/24/2011
Voltmeter	Keithley (2000, SN:1015843)	Calibration Due: 05/25/2011
Signal Generator	Agilent (E8257C, SN:MY43321570)	Calibration Due: 03/24/2011
Amplifier	Mini-Circuits (ZHL-42, SN:110405)	Calibration Due: 07/29/2011
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibration Due: 03/24/2011
Probe	Antennessa (SN:SN_1109_EP_100)	Calibration Due: 05/05/2011
DIPOLE 835	Antennessa (DIPI32,SN 48/05)	Calibration Due: 02/10/2011
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibration Due: N/A
Liquid	Antennessa	Calibration Due: N/A
Measurement SW	OPEN SAR V2.1	Calibration Due: N/A



## C. SAR Measurement Results

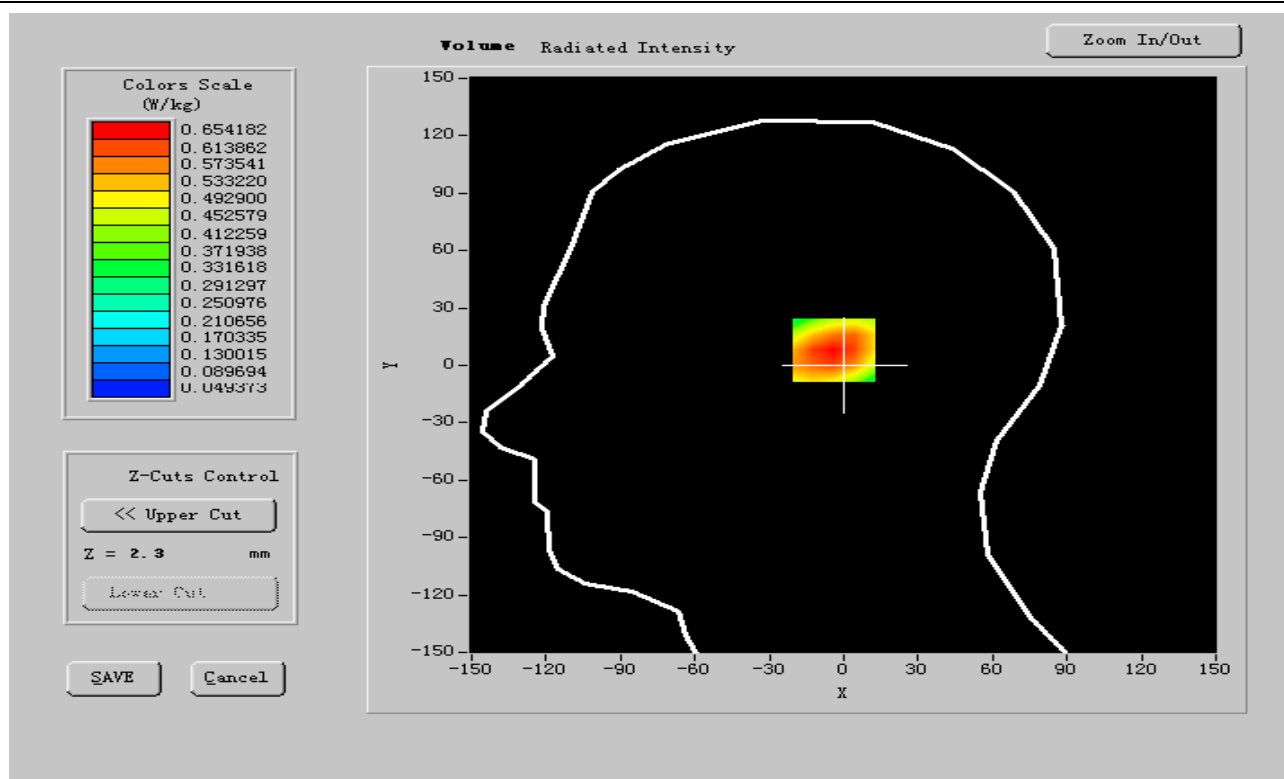
Frequency (MHz)	836.400024
Relative permittivity (real part)	41.466999
Relative permittivity (imaginary part)	19.511101
Conductivity (S/m)	0.916616
Variation (%)	-0.110000
Ambient Temperature:	21 °C
Liquid Temperature:	20 °C
ConvF:	20.66, 20.51, 28.36
Crest factor:	1:8

### SURFACE SAR





## VOLUME SAR



Maximum location: X=-13.00, Y=-3.00

SAR 10g (W/Kg)	0.552534
SAR 1g (W/Kg)	0.878327

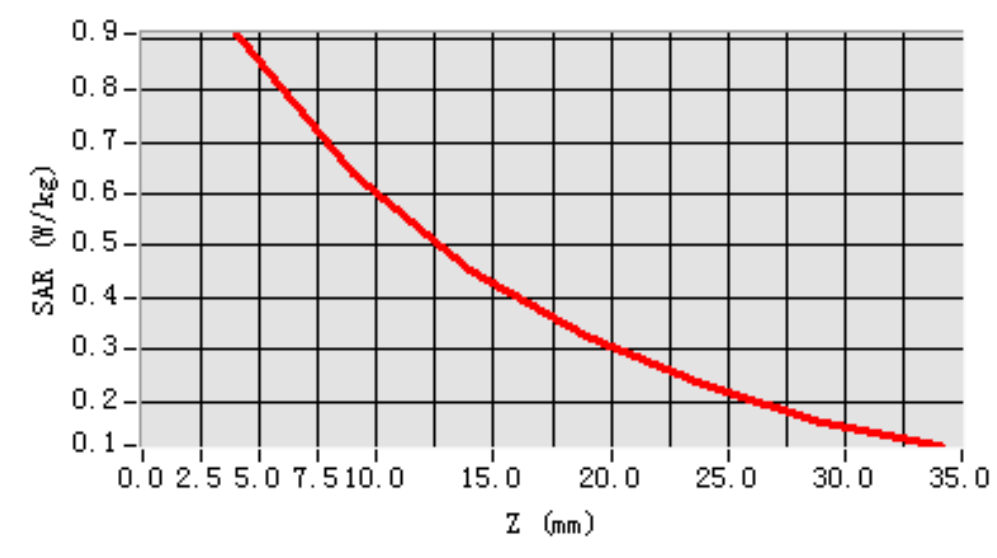
## Z Axis Scan

Z(mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/kg)	0.0000	0.8683	0.5987	0.4463	0.4073	0.2345	0.1673





SAR, Z Axis Scan (X = -13, Y = -3)



**MEASUREMENT 3****Date of measurement: 1/11/2010****Area Scan: 7 x 7 x 1****dx=15mm****dy=15mm****Zoom Scan: 5 x 5 x 7****dx=5mm****dy=5mm****dz=5mm****Z Axis Scan: 1 x 1 x 21****dx=20mm****dy=20mm****dz=5mm****A. Experimental conditions.**

<b>Phantom File</b>	zinf15.txt, Adaptive 2 max
<b>Phantom</b>	Right head
<b>Device Position</b>	Cheek
<b>Band</b>	GSM850
<b>Channels</b>	High
<b>Signal</b>	GSM

**B. Instrumentations.**

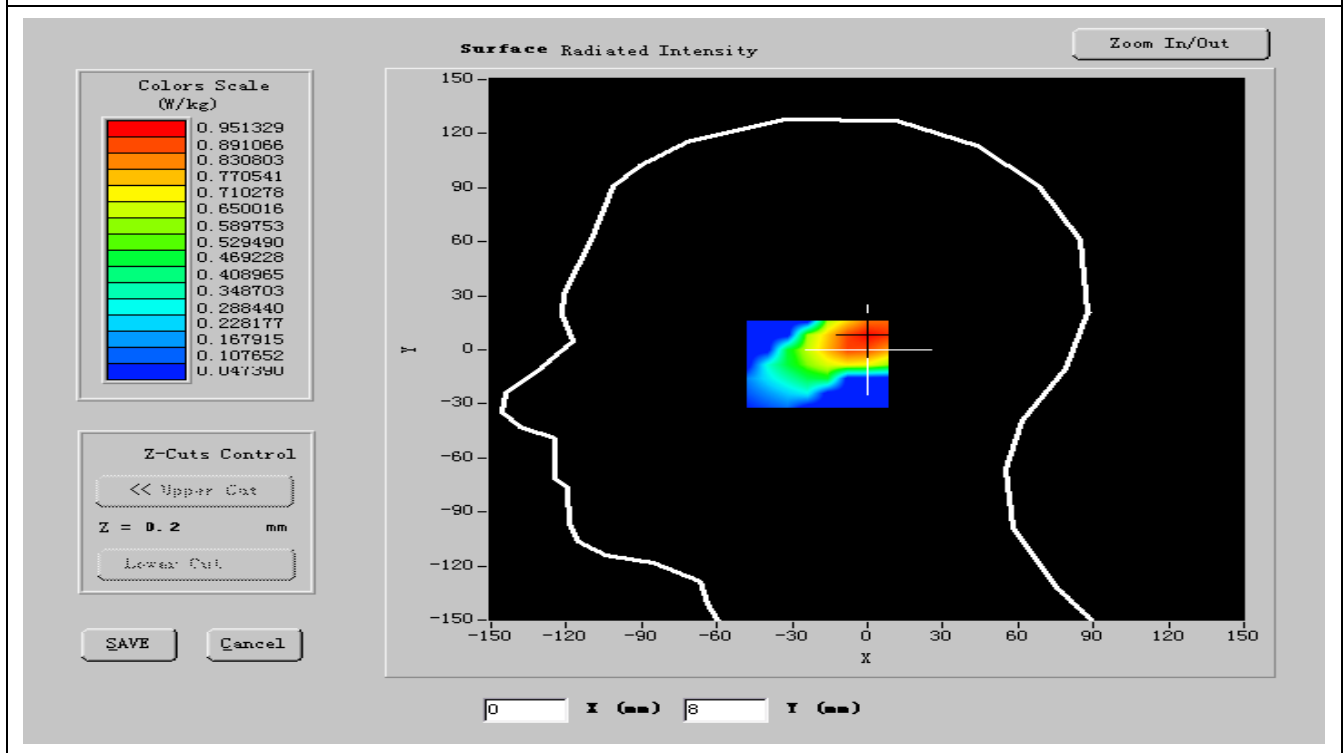
<b>PC</b>	HP (Pentium(R) V3.06GHz, SN:375052-AA1)	Calibration Due: N/A
<b>Wireless Communication Test Set</b>	R&S (CMU200, SN:B23-03291)	Calibration Due: 05/25/2011
<b>Network Analyzer</b>	Agilent(E5071B, MY42301382)	Calibration Due: 03/24/2011
<b>Voltmeter</b>	Keithley (2000, SN:1015843)	Calibration Due: 05/25/2011
<b>Signal Generator</b>	Agilent (E8257C, SN:MY43321570)	Calibration Due: 03/24/2011
<b>Amplifier</b>	Mini-Circuits (ZHL-42, SN:110405)	Calibration Due: 07/29/2011
<b>Power Meter</b>	Agilent (E4416A, SN:QB41292714)	Calibration Due: 03/24/2011
<b>Probe</b>	Antennessa (SN:SN_1109_EP_100)	Calibration Due: 05/05/2011
<b>DIPOLE 835</b>	Antennessa (DIPI32,SN 48/05)	Calibration Due: 02/10/2011
<b>Phantom</b>	Antennessa (SN:SN41_05_SAM29)	Calibration Due: N/A
<b>Liquid</b>	Antennessa	Calibration Due: N/A
<b>Measurement SW</b>	OPEN SAR V2.1	Calibration Due: N/A



## C. SAR Measurement Results

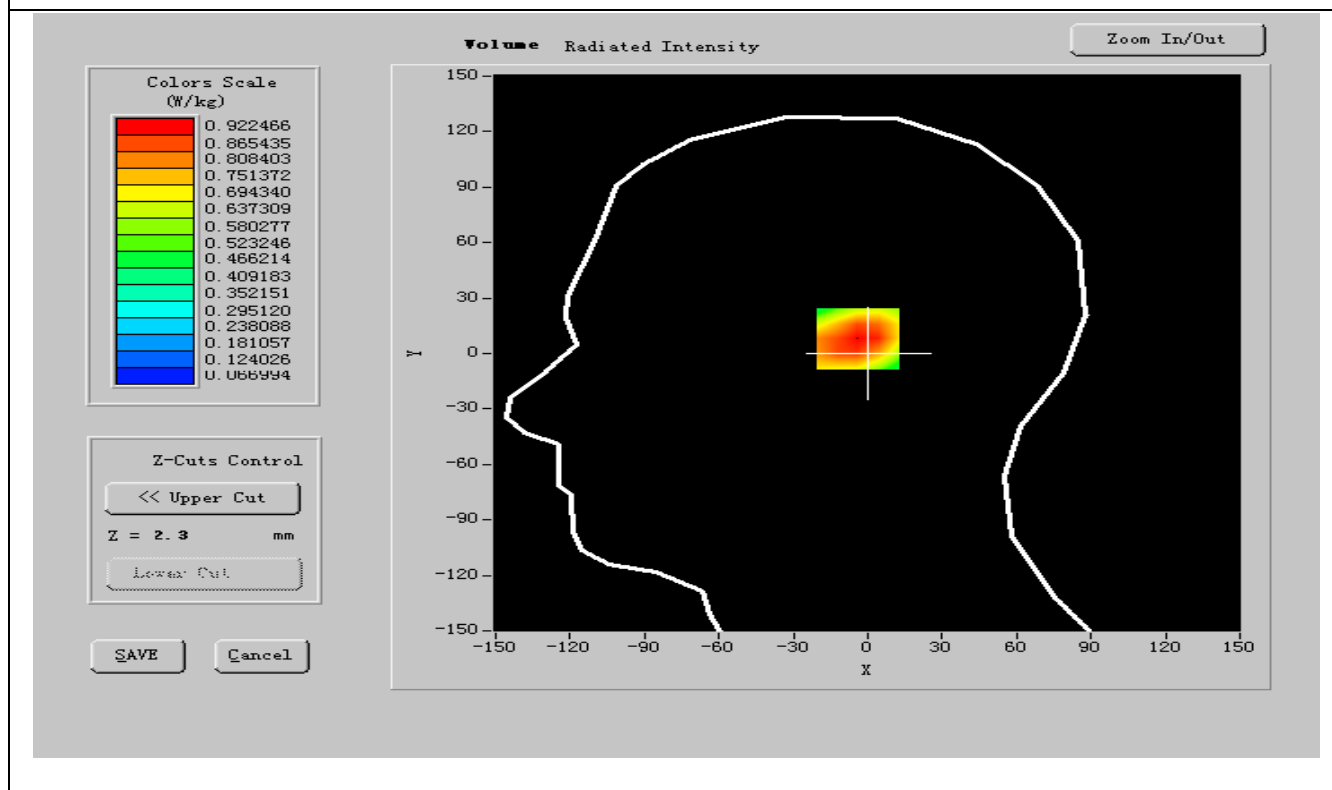
Frequency (MHz)	848.599976
Relative permittivity (real part)	41.262001
Relative permittivity (imaginary part)	19.598200
Conductivity (S/m)	0.923946
Variation (%)	-0.110000
Ambient Temperature:	21 °C
Liquid Temperature:	20 °C
ConvF:	20.66, 20.51, 28.36
Crest factor:	1:8

### SURFACE SAR





## VOLUME SAR



Maximum location: X=-13.00, Y=-3.00

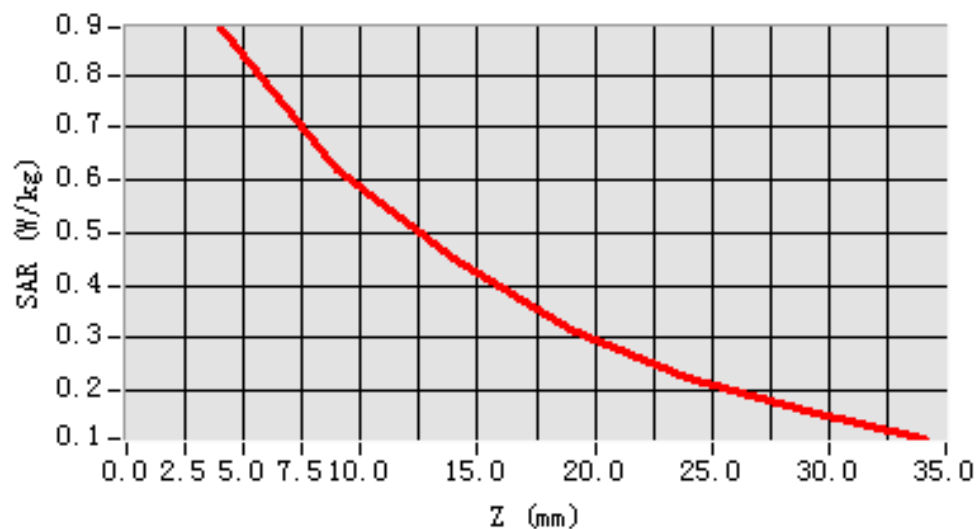
SAR 10g (W/Kg)	0.565611
SAR 1g (W/Kg)	0.867265

### Z Axis Scan

Z(mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/kg)	0.0000	0.84446	0.58763	0.4127	0.2947	0.1987	0.1324



**SAR, Z Axis Scan (X = -13, Y = -3)**





## MEASUREMENT 4

Date of measurement: 1/11/2010

Area Scan: 7 x 7 x 1

dx=15mm

dy=15mm

Zoom Scan: 5 x 5 x 7

dx=5mm

dy=5mm

dz=5mm

Z Axis Scan: 1 x 1 x 21

dx=20mm

dy=20mm

dz=5mm

### A. Experimental conditions.

Phantom File	zinf15.txt, Adaptive 2 max
Phantom	Right head
Device Position	Tilt
Band	GSM850
Channels	Low
Signal	GSM

### B. Instrumentations.

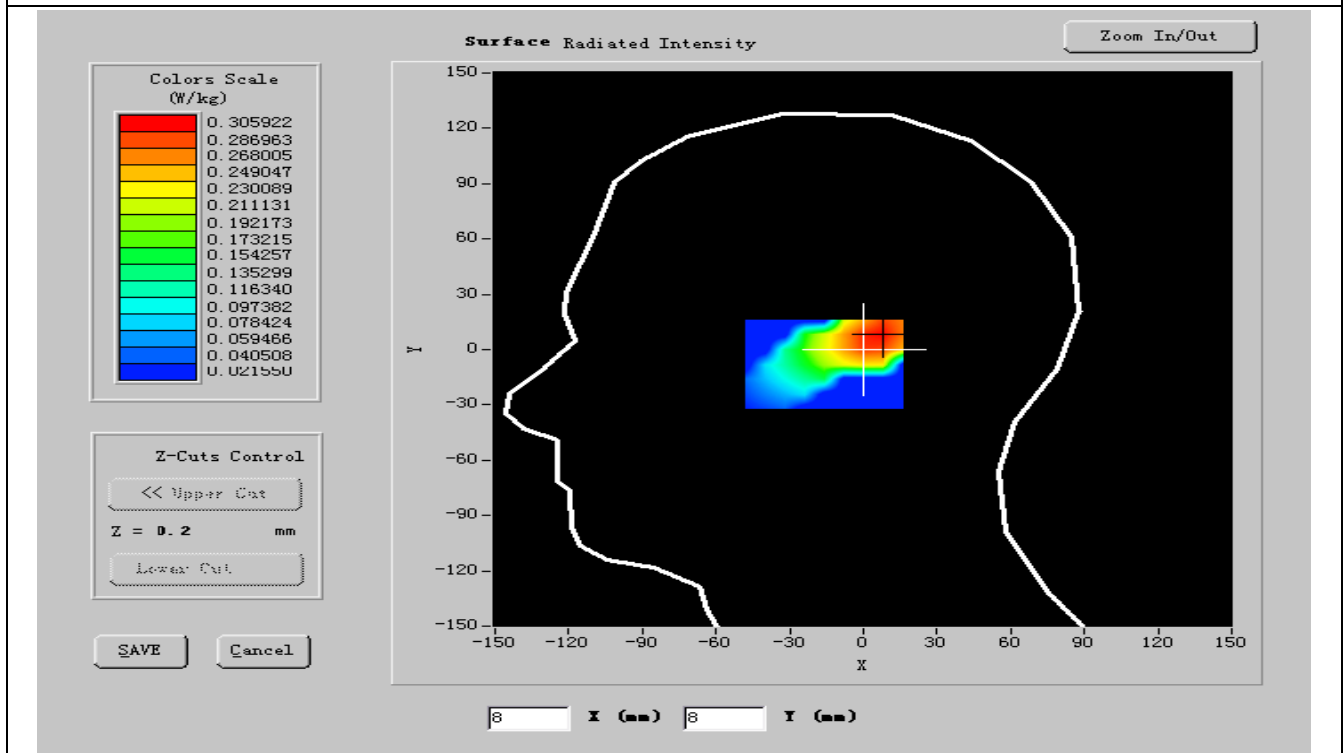
PC	HP (Pentium(R) V3.06GHz, SN:375052-AA1)	Calibration Due: N/A
Wireless Communication Test Set	R&S (CMU200, SN:B23-03291)	Calibration Due: 05/25/2011
Network Analyzer	Agilent(E5071B, MY42301382)	Calibration Due: 03/24/2011
Voltmeter	Keithley (2000, SN:1015843)	Calibration Due: 05/25/2011
Signal Generator	Agilent (E8257C, SN:MY43321570)	Calibration Due: 03/24/2011
Amplifier	Mini-Circuits (ZHL-42, SN:110405)	Calibration Due: 07/29/2011
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibration Due: 03/24/2011
Probe	Antennessa (SN:SN_1109_EP_100)	Calibration Due: 05/05/2011
DIPOLE 835	Antennessa (DIPI32,SN 48/05)	Calibration Due: 02/10/2011
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibration Due: N/A
Liquid	Antennessa	Calibration Due: N/A
Measurement SW	OPEN SAR V2.1	Calibration Due: N/A



## C. SAR Measurement Results

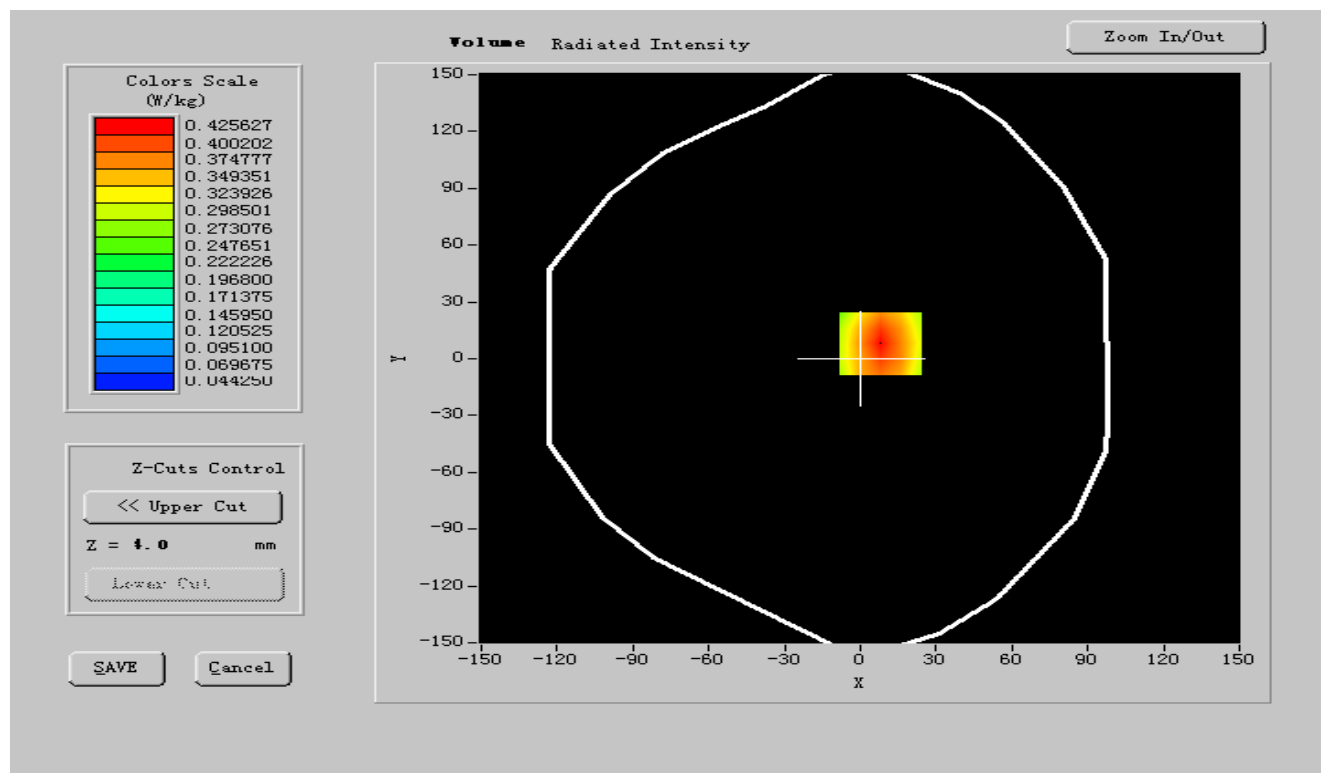
Frequency (MHz)	824.200012
Relative permittivity (real part)	41.466999
Relative permittivity (imaginary part)	19.511101
Conductivity (S/m)	0.913392
Variation (%)	-3.070000
Ambient Temperature:	21 °C
Liquid Temperature:	20 °C
ConvF:	20.66, 20.51, 28.36
Crest factor:	1:8

### SURFACE SAR





## VOLUME SAR



Maximum location: X=-13.00, Y=-3.00

SAR 10g (W/Kg)	0.365720
SAR 1g (W/Kg)	0.562478

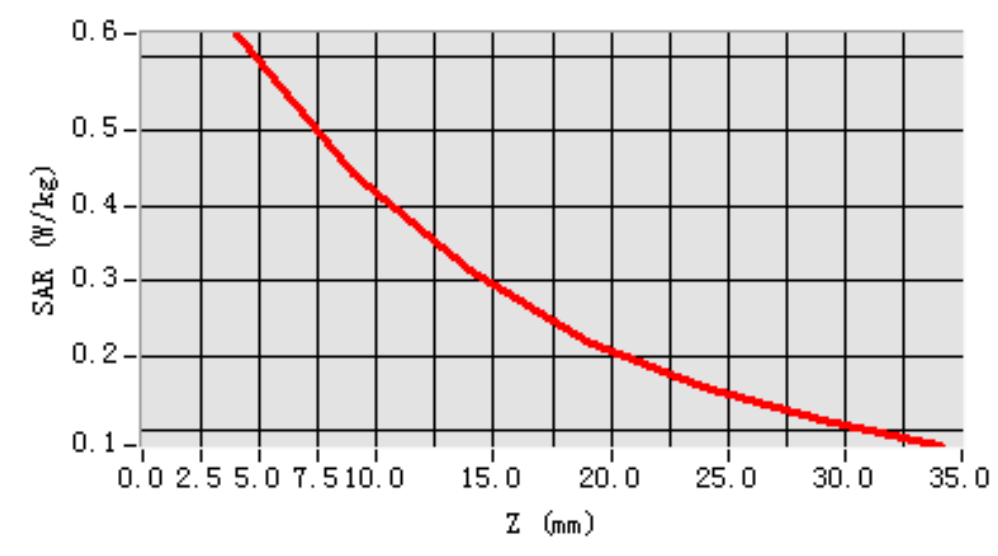
### Z Axis Scan

Z(mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/kg)	0.0000	0.5756	0.4854	0.3354	0.2154	0.1911	0.0111





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





## MEASUREMENT 5

Date of measurement: 1/11/2010

Area Scan: 7 x 7 x 1

dx=15mm

dy=15mm

Zoom Scan: 5 x 5 x 7

dx=5mm

dy=5mm

dz=5mm

Z Axis Scan: 1 x 1 x 21

dx=20mm

dy=20mm

dz=5mm

### A. Experimental conditions.

Phantom File	zinf15.txt, Adaptive 2 max
Phantom	Right head
Device Position	Tilt
Band	GSM850
Channels	Middle
Signal	GSM

### B. Instrumentations.

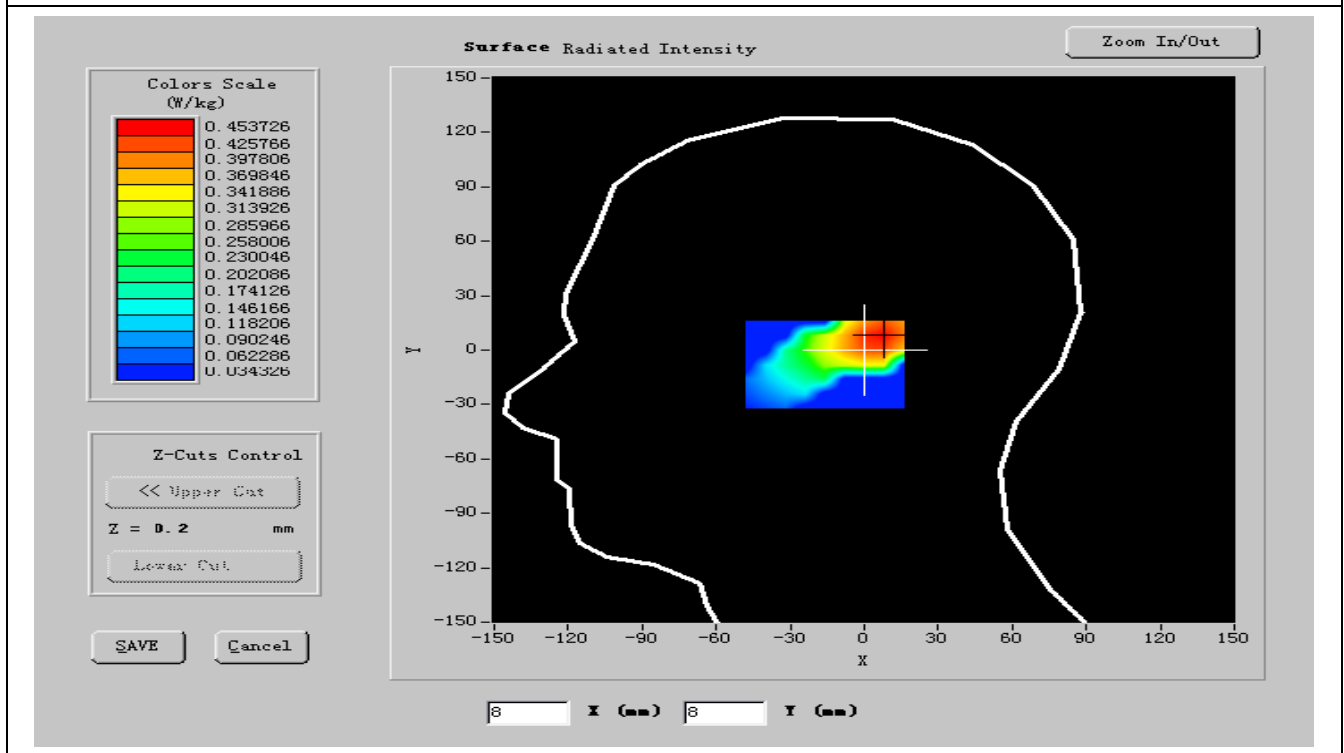
PC	HP (Pentium(R) V3.06GHz, SN:375052-AA1)	Calibration Due: N/A
Wireless Communication Test Set	R&S (CMU200, SN:B23-03291)	Calibration Due: 05/25/2011
Network Analyzer	Agilent(E5071B, MY42301382)	Calibration Due: 03/24/2011
Voltmeter	Keithley (2000, SN:1015843)	Calibration Due: 05/25/2011
Signal Generator	Agilent (E8257C, SN:MY43321570)	Calibration Due: 03/24/2011
Amplifier	Mini-Circuits (ZHL-42, SN:110405)	Calibration Due: 07/29/2011
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibration Due: 03/24/2011
Probe	Antennessa (SN:SN_1109_EP_100)	Calibration Due: 05/05/2011
DIPOLE 835	Antennessa (DIPI32,SN 48/05)	Calibration Due: 02/10/2011
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibration Due: N/A
Liquid	Antennessa	Calibration Due: N/A
Measurement SW	OPEN SAR V2.1	Calibration Due: N/A



## C. SAR Measurement Results

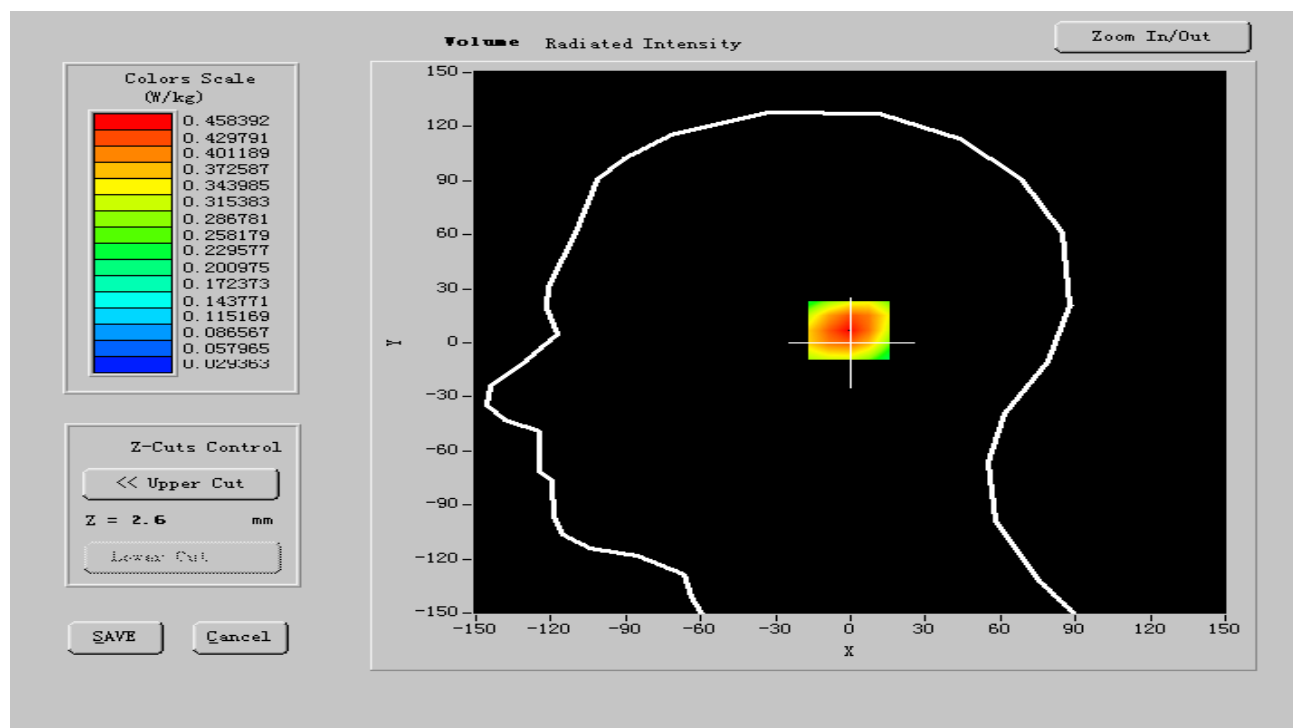
Frequency (MHz)	836.400024
Relative permittivity (real part)	41.466999
Relative permittivity (imaginary part)	19.511101
Conductivity (S/m)	0.913636
Variation (%)	-0.880000
Ambient Temperature:	21 °C
Liquid Temperature:	20 °C
ConvF:	20.66, 20.51, 28.36
Crest factor:	1:8

### SURFACE SAR





## VOLUME SAR



**Maximum location: X=-13.00, Y=-3.00**

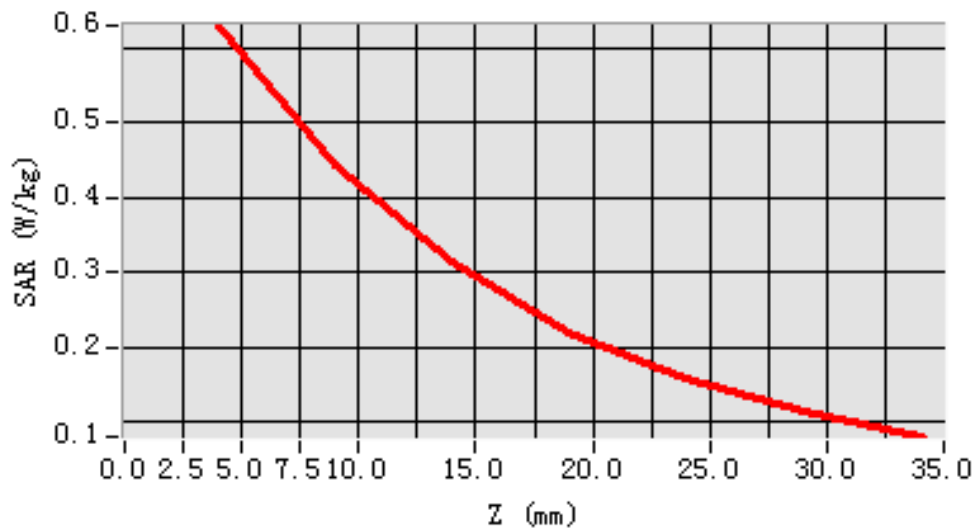
SAR 10g (W/Kg)	0.422308
SAR 1g (W/Kg)	0.592471

### Z Axis Scan

Z(mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/kg)	0.0000	0.5929	0.4354	0.3354	0.2154	0.1611	0.0123



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





## MEASUREMENT 6

Date of measurement: 1/11/2010

Area Scan: 7 x 7 x 1

dx=15mm

dy=15mm

Zoom Scan: 5 x 5 x 7

dx=5mm

dy=5mm

dz=5mm

Z Axis Scan: 1 x 1 x 21

dx=20mm

dy=20mm

dz=5mm

### A. Experimental conditions.

Phantom File	zinf15.txt, Adaptive 2 max
Phantom	Right head
Device Position	Tilt
Band	GSM850
Channels	High
Signal	GSM

### B. Instrumentations.

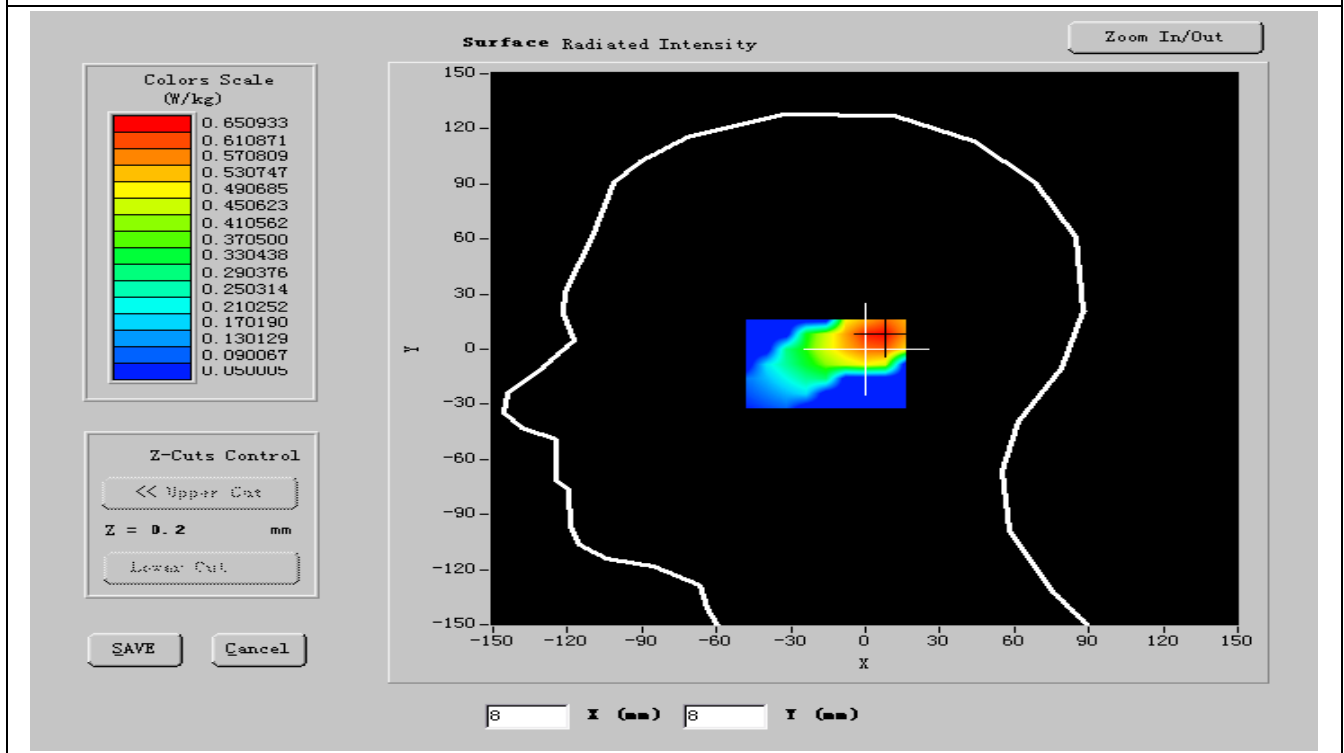
PC	HP (Pentium(R) V3.06GHz, SN:375052-AA1)	Calibration Due: N/A
Wireless Communication Test Set	R&S (CMU200, SN:B23-03291)	Calibration Due: 05/25/2011
Network Analyzer	Agilent(E5071B, MY42301382)	Calibration Due: 03/24/2011
Voltmeter	Keithley (2000, SN:1015843)	Calibration Due: 05/25/2011
Signal Generator	Agilent (E8257C, SN:MY43321570)	Calibration Due: 03/24/2011
Amplifier	Mini-Circuits (ZHL-42, SN:110405)	Calibration Due: 07/29/2011
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibration Due: 03/24/2011
Probe	Antennessa (SN:SN_1109_EP_100)	Calibration Due: 05/05/2011
DIPOLE 835	Antennessa (DIPI32,SN 48/05)	Calibration Due: 02/10/2011
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibration Due: N/A
Liquid	Antennessa	Calibration Due: N/A
Measurement SW	OPEN SAR V2.1	Calibration Due: N/A



## C. SAR Measurement Results

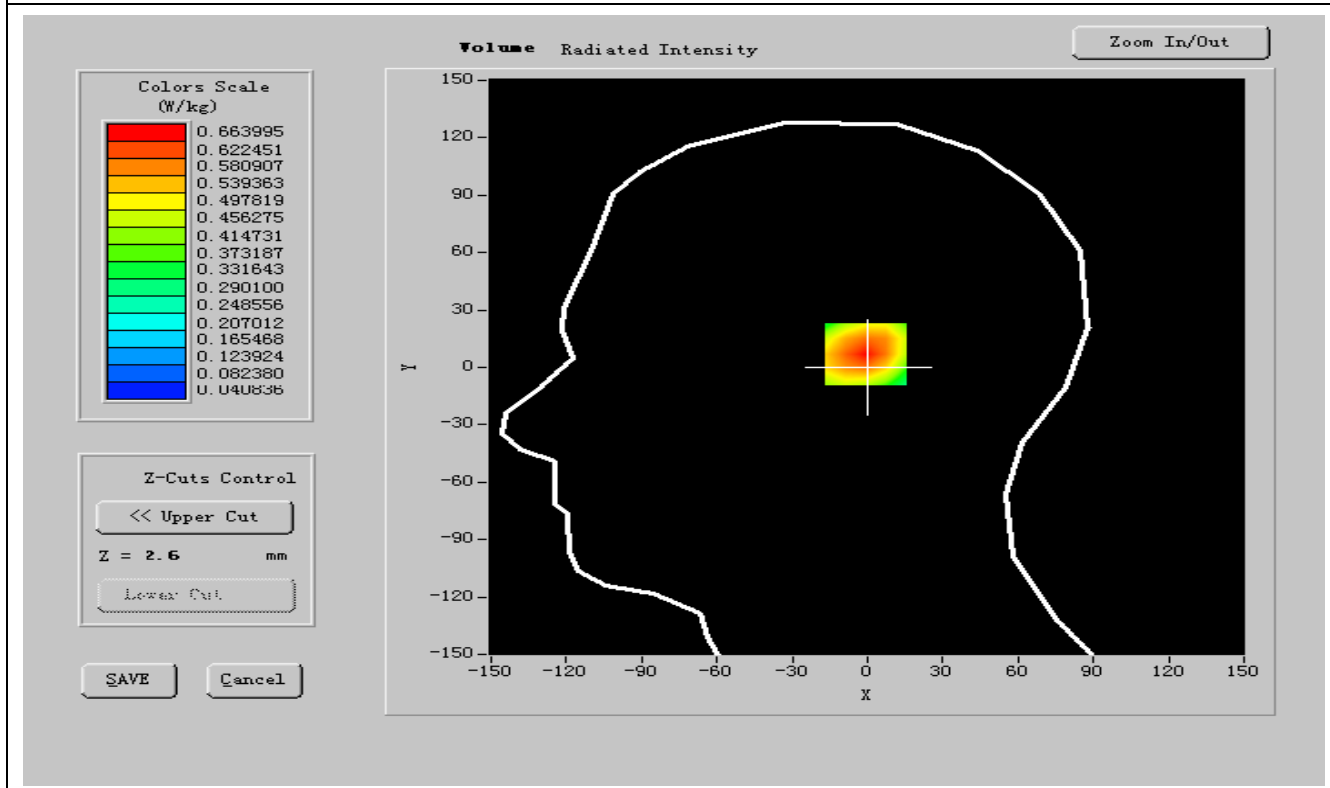
Frequency (MHz)	848.599976
Relative permittivity (real part)	41.262001
Relative permittivity (imaginary part)	19.598200
Conductivity (S/m)	0.923946
Variation (%)	-3.070000
Ambient Temperature:	21 °C
Liquid Temperature:	20 °C
ConvF:	20.66, 20.51, 28.36
Crest factor:	1:8

### SURFACE SAR





## VOLUME SAR



Maximum location: X=-13.00, Y=-3.00

SAR 10g (W/Kg)	0.428641
SAR 1g (W/Kg)	0.619640

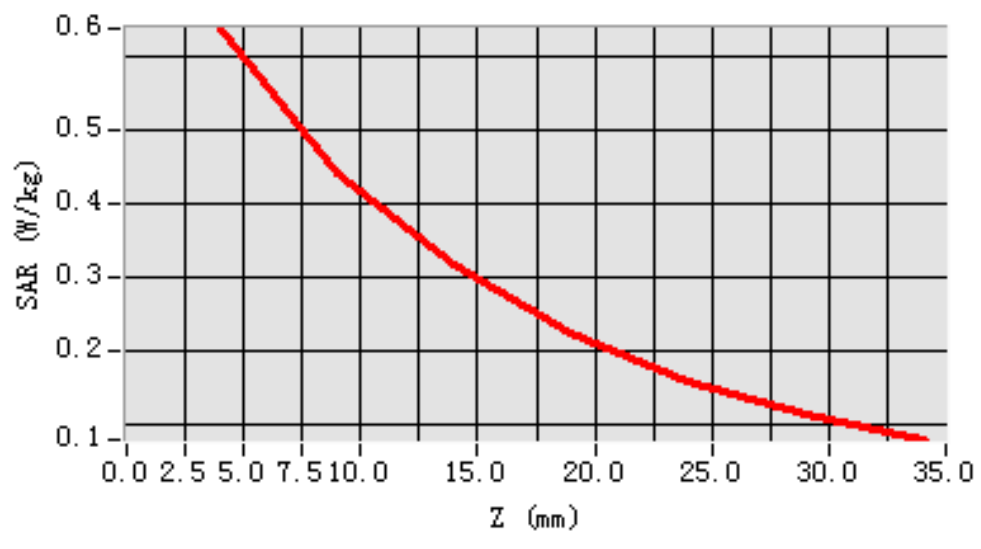
## Z Axis Scan

Z(mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/kg)	0.0000	0.5994	0.4354	0.3354	0.2154	0.1611	0.1234





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



**MEASUREMENT 7****Date of measurement: 1/11/2010****Area Scan: 7 x 7 x 1****dx=15mm****dy=15mm****Zoom Scan: 5 x 5 x 7****dx=5mm****dy=5mm****dz=5mm****Z Axis Scan: 1 x 1 x 21****dx=20mm****dy=20mm****dz=5mm****A. Experimental conditions.**

<b>Phantom File</b>	zinf15.txt, Adaptive 2 max
<b>Phantom</b>	Left head
<b>Device Position</b>	Cheek
<b>Band</b>	GSM850
<b>Channels</b>	Low
<b>Signal</b>	GSM

**B. Instrumentations.**

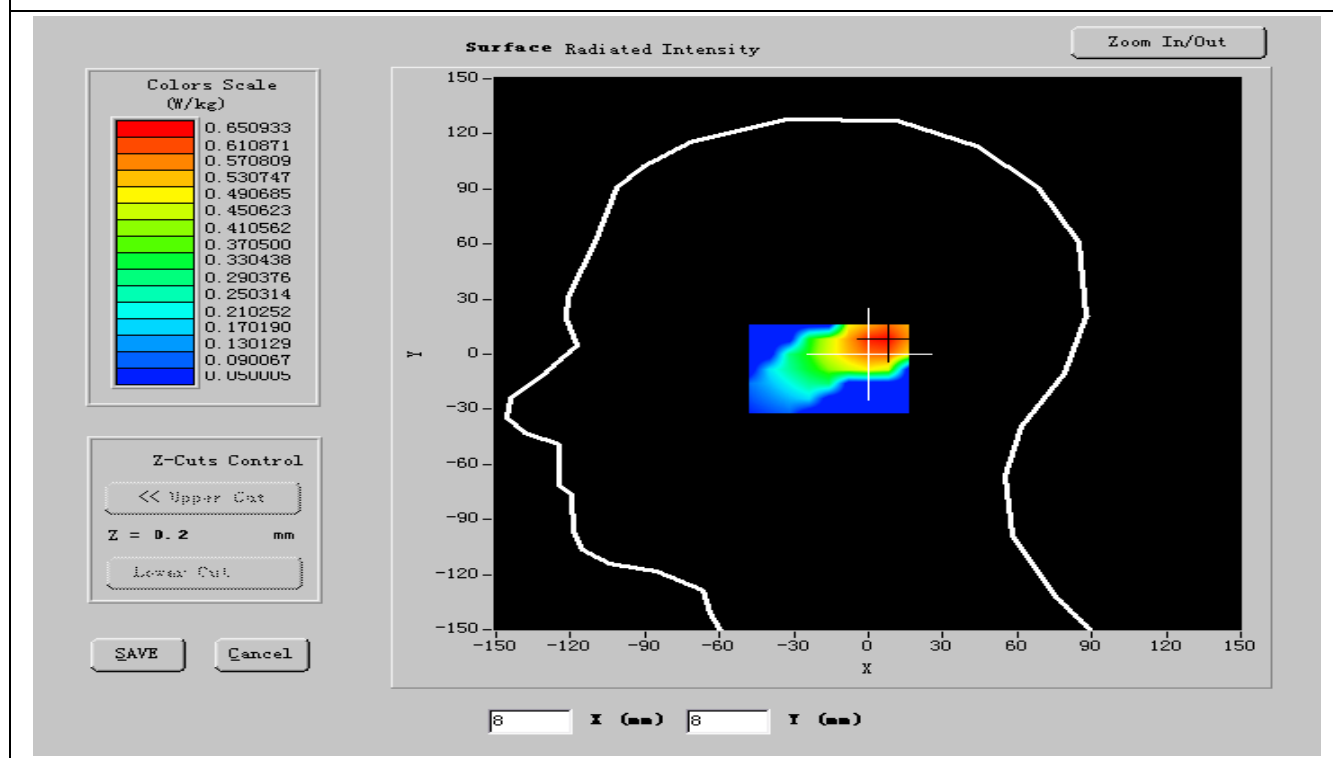
<b>PC</b>	HP (Pentium(R) V3.06GHz, SN:375052-AA1)	Calibration Due: N/A
<b>Wireless Communication Test Set</b>	R&S (CMU200, SN:B23-03291)	Calibration Due: 05/25/2011
<b>Network Analyzer</b>	Agilent(E5071B, MY42301382)	Calibration Due: 03/24/2011
<b>Voltmeter</b>	Keithley (2000, SN:1015843)	Calibration Due: 05/25/2011
<b>Signal Generator</b>	Agilent (E8257C, SN:MY43321570)	Calibration Due: 03/24/2011
<b>Amplifier</b>	Mini-Circuits (ZHL-42, SN:110405)	Calibration Due: 07/29/2011
<b>Power Meter</b>	Agilent (E4416A, SN:QB41292714)	Calibration Due: 03/24/2011
<b>Probe</b>	Antennessa (SN:SN_1109_EP_100)	Calibration Due: 05/05/2011
<b>DIPOLE 835</b>	Antennessa (DIPI32,SN 48/05)	Calibration Due: 02/10/2011
<b>Phantom</b>	Antennessa (SN:SN41_05_SAM29)	Calibration Due: N/A
<b>Liquid</b>	Antennessa	Calibration Due: N/A
<b>Measurement SW</b>	OPEN SAR V2.1	Calibration Due: N/A



## C. SAR Measurement Results

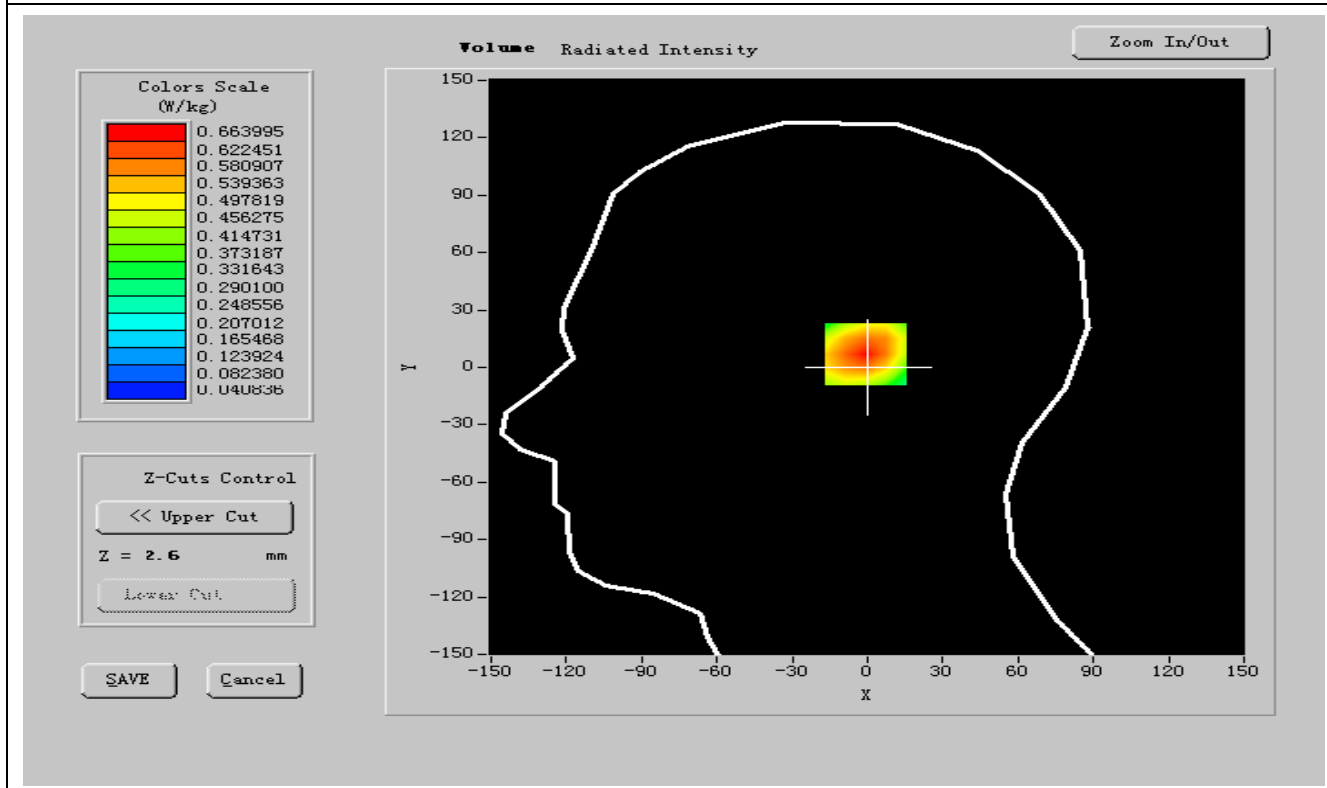
Frequency (MHz)	824.200012
Relative permittivity (real part)	41.466999
Relative permittivity (imaginary part)	19.511101
Conductivity (S/m)	0.923372
Variation (%)	-1.240000
Ambient Temperature:	21 °C
Liquid Temperature:	20 °C
ConvF:	20.66, 20.51, 28.36
Crest factor:	1:8

### SURFACE SAR





## VOLUME SAR



Maximum location: X=-13.00, Y=-3.00

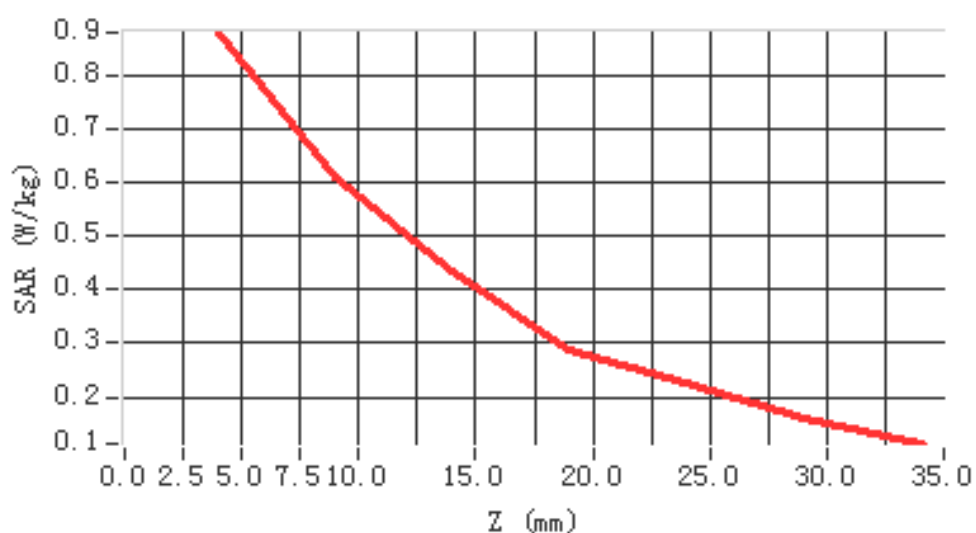
SAR 10g (W/Kg)	0.532701
SAR 1g (W/Kg)	0.843048

### Z Axis Scan

Z(mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/kg)	0.0000	0.8390	0.5354	0.4154	0.2854	0.2111	0.1352



SAR, Z Axis Scan (X = -25, Y = -11)





## MEASUREMENT 8

**Date of measurement: 1/11/2010****Area Scan: 7 x 7 x 1****dx=15mm****dy=15mm****Zoom Scan: 5 x 5 x 7****dx=5mm****dy=5mm****dz=5mm****Z Axis Scan: 1 x 1 x 21****dx=20mm****dy=20mm****dz=5mm**

### A. Experimental conditions.

<b>Phantom File</b>	zinf15.txt, Adaptive 2 max
<b>Phantom</b>	Left head
<b>Device Position</b>	Cheek
<b>Band</b>	GSM850
<b>Channels</b>	Middle
<b>Signal</b>	GSM

### B. Instrumentations.

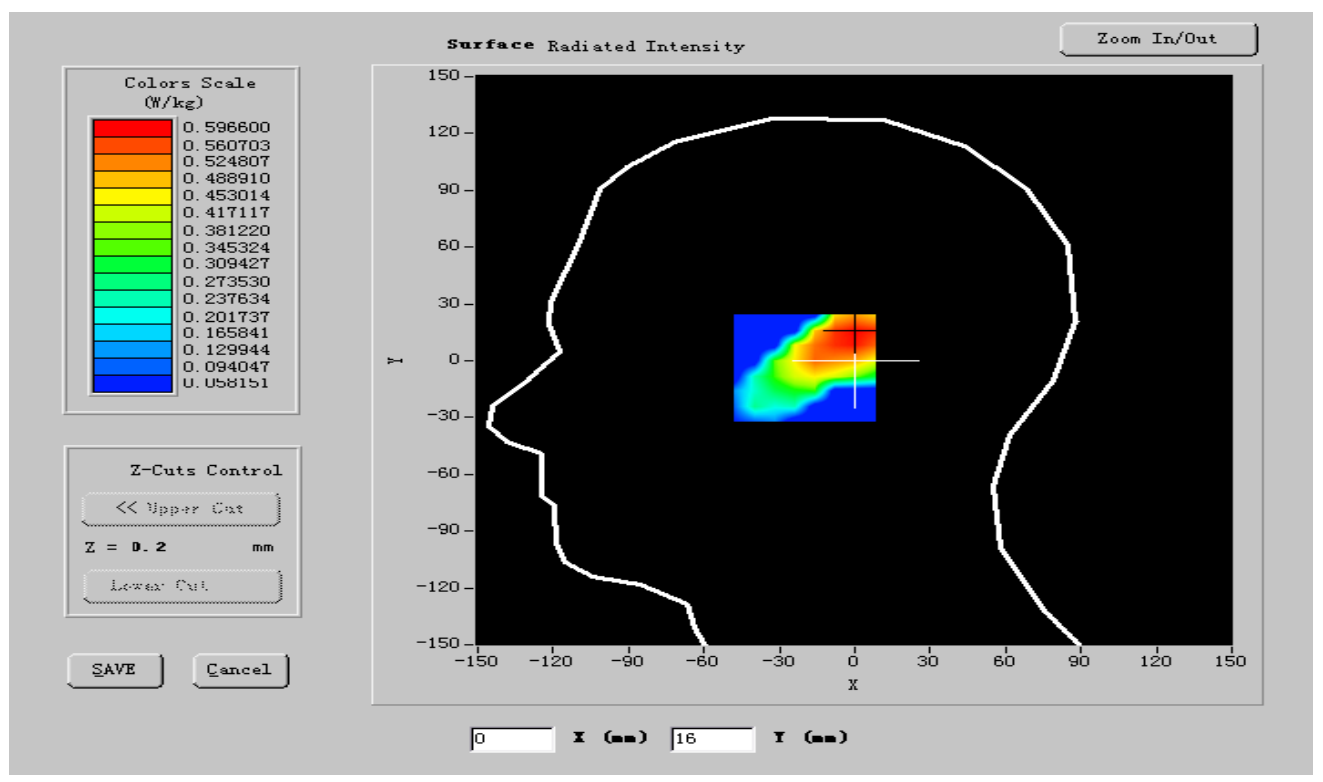
<b>PC</b>	HP (Pentium(R) V3.06GHz, SN:375052-AA1)	Calibration Due: N/A
<b>Wireless Communication Test Set</b>	R&S (CMU200, SN:B23-03291)	Calibration Due: 05/25/2011
<b>Network Analyzer</b>	Agilent(E5071B, MY42301382)	Calibration Due: 03/24/2011
<b>Voltmeter</b>	Keithley (2000, SN:1015843)	Calibration Due: 05/25/2011
<b>Signal Generator</b>	Agilent (E8257C, SN:MY43321570)	Calibration Due: 03/24/2011
<b>Amplifier</b>	Mini-Circuits (ZHL-42, SN:110405)	Calibration Due: 07/29/2011
<b>Power Meter</b>	Agilent (E4416A, SN:QB41292714)	Calibration Due: 03/24/2011
<b>Probe</b>	Antennessa (SN:SN_1109_EP_100)	Calibration Due: 05/05/2011
<b>DIPOLE 835</b>	Antennessa (DIP132,SN 48/05)	Calibration Due: 02/10/2011
<b>Phantom</b>	Antennessa (SN:SN41_05_SAM29)	Calibration Due: N/A
<b>Liquid</b>	Antennessa	Calibration Due: N/A
<b>Measurement SW</b>	OPEN SAR V2.1	Calibration Due: N/A



## C. SAR Measurement Results

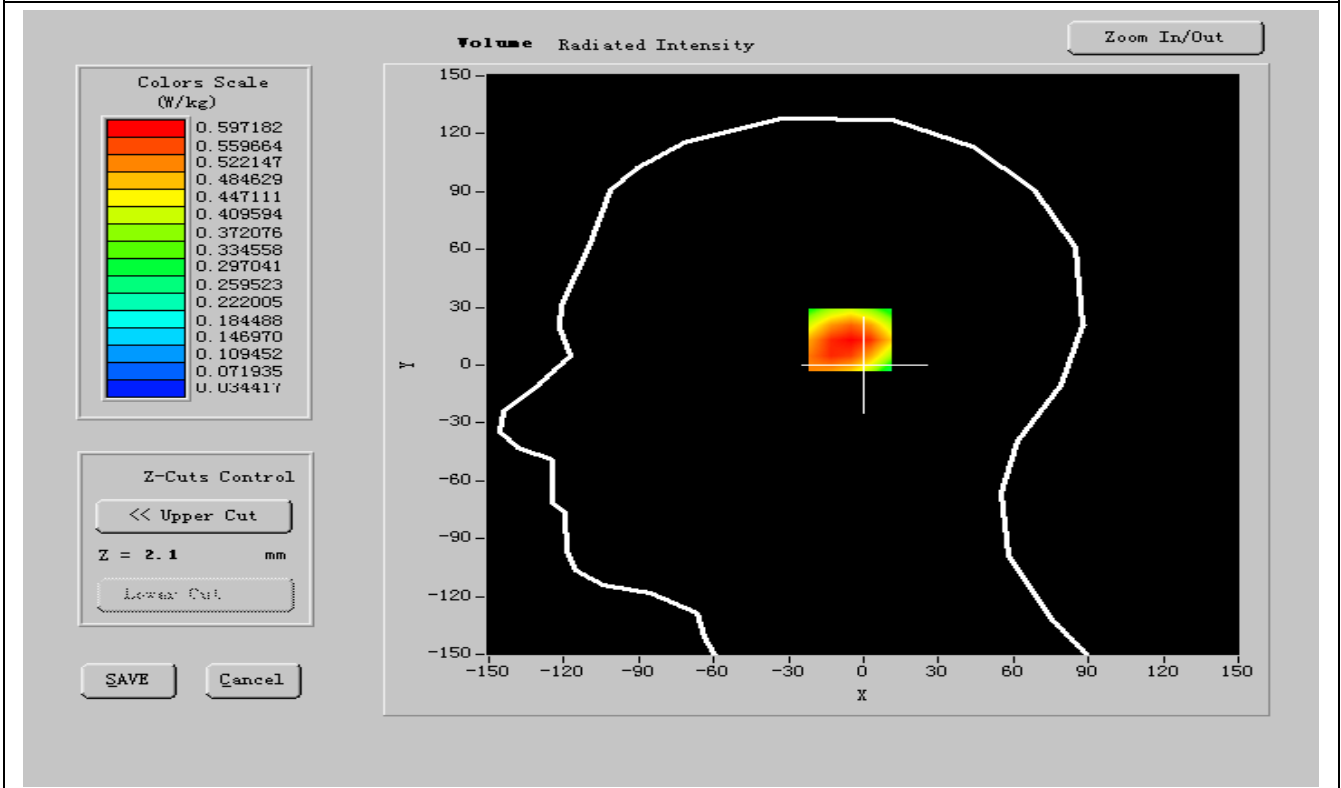
Frequency (MHz)	836.400024
Relative permittivity (real part)	41.466999
Relative permittivity (imaginary part)	19.511101
Conductivity (S/m)	0.9163242
Variation (%)	-1.240000
Ambient Temperature:	21 °C
Liquid Temperature:	20 °C
ConvF:	20.66, 20.51, 28.36
Crest factor:	1:8

### SURFACE SAR





## VOLUME SAR



**Maximum location: X=-13.00, Y=-3.00**

SAR 10g (W/Kg)	0.549653
SAR 1g (W/Kg)	0.848171

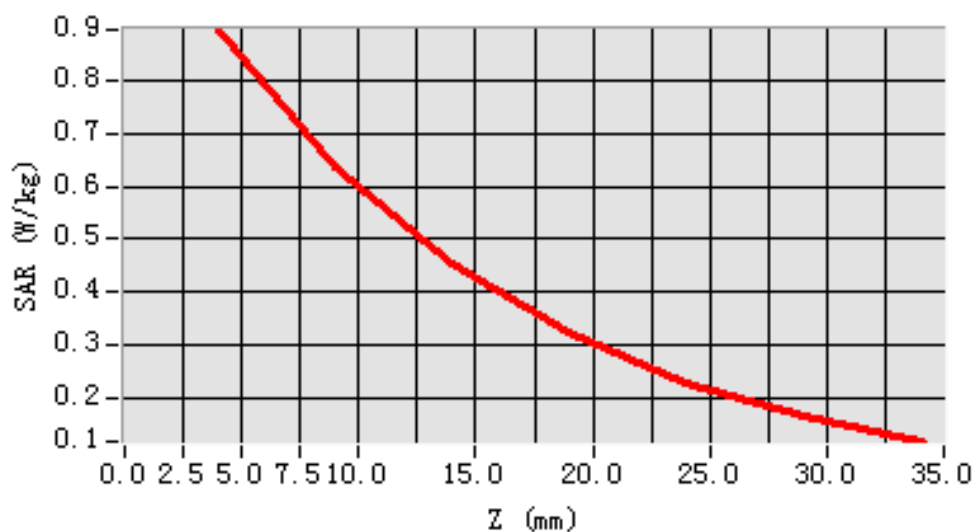
### Z Axis Scan

Z(mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/kg)	0.0000	0.8507	0.5334	0.4132	0.2832	0.2132	0.1353





SAR, Z Axis Scan (X = -25, Y = -11)



**MEASUREMENT 9****Date of measurement: 1/11/2010****Area Scan: 7 x 7 x 1****dx=15mm****dy=15mm****Zoom Scan: 5 x 5 x 7****dx=5mm****dy=5mm****dz=5mm****Z Axis Scan: 1 x 1 x 21****dx=20mm****dy=20mm****dz=5mm****A. Experimental conditions.**

<b>Phantom File</b>	zinf15.txt, Adaptive 2 max
<b>Phantom</b>	Left head
<b>Device Position</b>	Cheek
<b>Band</b>	GSM850
<b>Channels</b>	High
<b>Signal</b>	GSM

**B. Instrumentations.**

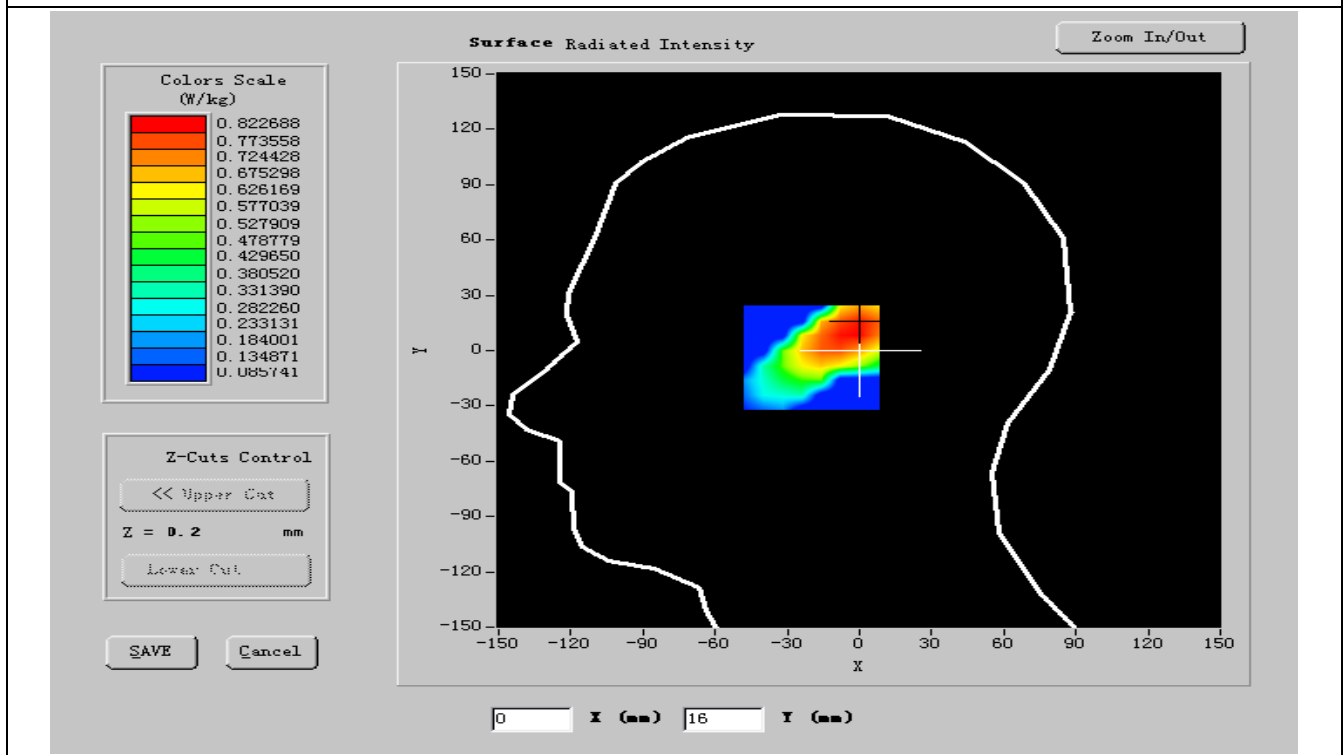
<b>PC</b>	HP (Pentium(R) V3.06GHz, SN:375052-AA1)	Calibration Due: N/A
<b>Wireless Communication Test Set</b>	R&S (CMU200, SN:B23-03291)	Calibration Due: 05/25/2011
<b>Network Analyzer</b>	Agilent(E5071B, MY42301382)	Calibration Due: 03/24/2011
<b>Voltmeter</b>	Keithley (2000, SN:1015843)	Calibration Due: 05/25/2011
<b>Signal Generator</b>	Agilent (E8257C, SN:MY43321570)	Calibration Due: 03/24/2011
<b>Amplifier</b>	Mini-Circuits (ZHL-42, SN:110405)	Calibration Due: 07/29/2011
<b>Power Meter</b>	Agilent (E4416A, SN:QB41292714)	Calibration Due: 03/24/2011
<b>Probe</b>	Antennessa (SN:SN_1109_EP_100)	Calibration Due: 05/05/2011
<b>DIPOLE 835</b>	Antennessa (DIP132,SN 48/05)	Calibration Due: 02/10/2011
<b>Phantom</b>	Antennessa (SN:SN41_05_SAM29)	Calibration Due: N/A
<b>Liquid</b>	Antennessa	Calibration Due: N/A
<b>Measurement SW</b>	OPEN SAR V2.1	Calibration Due: N/A



## C. SAR Measurement Results

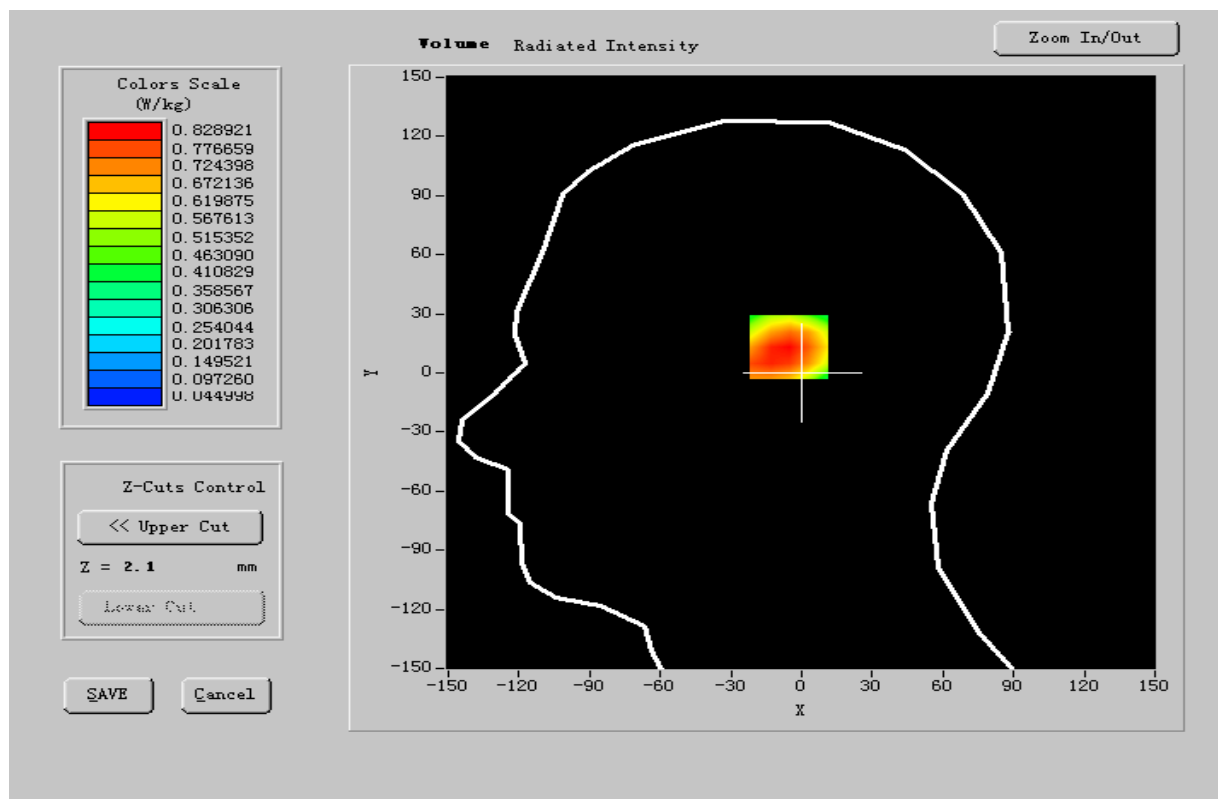
Frequency (MHz)	848.599976
Relative permittivity (real part)	41.278801
Relative permittivity (imaginary part)	19.598200
Conductivity (S/m)	0.923946
Variation (%)	-1.200000
Ambient Temperature:	21 °C
Liquid Temperature:	20 °C
ConvF:	20.66, 20.51, 28.36
Crest factor:	1:8

### SURFACE SAR





## VOLUME SAR



Maximum location: X=-13.00, Y=-3.00

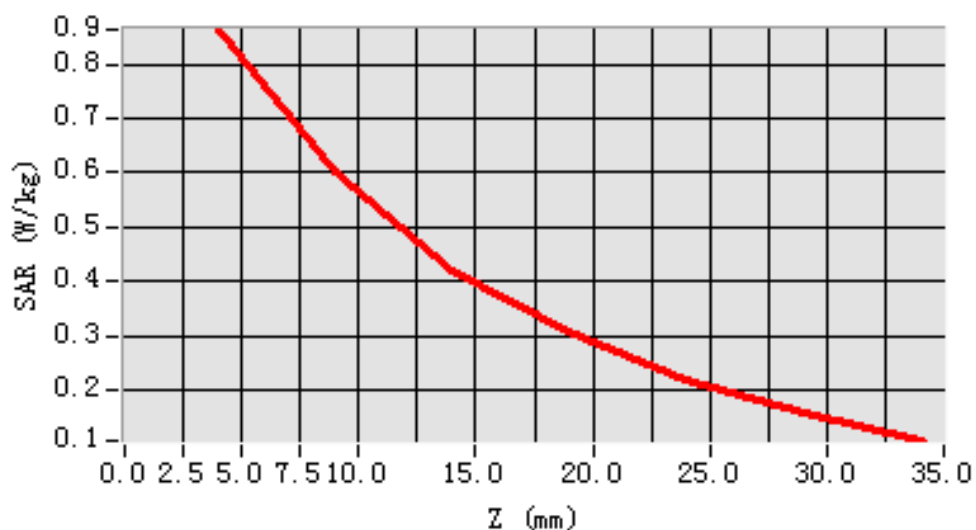
SAR 10g (W/Kg)	0.542453
SAR 1g (W/Kg)	0.837743

### Z Axis Scan

Z(mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/kg)	0.0000	0.8129	0.5323	0.4545	0.2834	0.2132	0.1323



SAR, Z Axis Scan (X = -25, Y = -11)





## MEASUREMENT 10

Date of measurement: 1/11/2010

Area Scan: 7 x 7 x 1

dx=15mm

dy=15mm

Zoom Scan: 5 x 5 x 7

dx=5mm

dy=5mm

dz=5mm

Z Axis Scan: 1 x 1 x 21

dx=20mm

dy=20mm

dz=5mm

### A. Experimental conditions.

Phantom File	zinf15.txt, Adaptive 2 max
Phantom	Left head
Device Position	Tilt
Band	GSM850
Channels	Low
Signal	GSM

### B. Instrumentations.

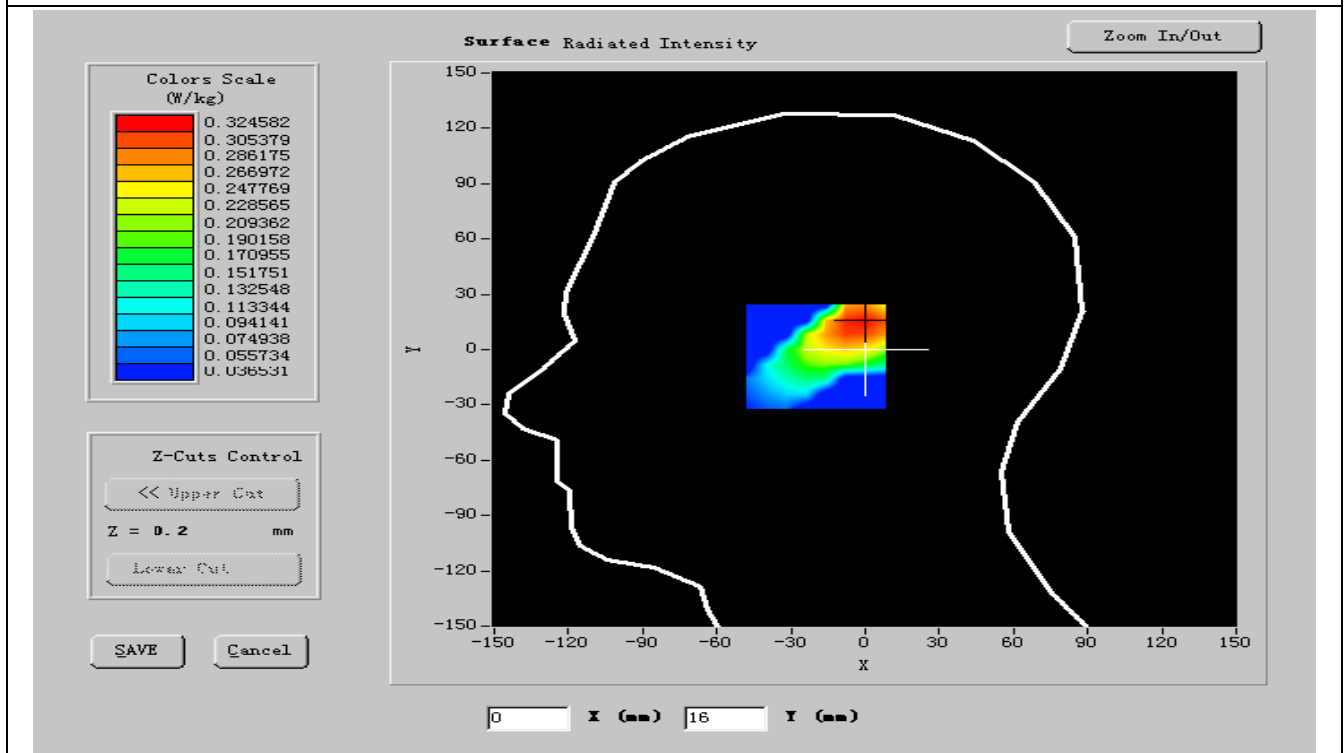
PC	HP (Pentium(R) V3.06GHz, SN:375052-AA1)	Calibration Due: N/A
Wireless Communication Test Set	R&S (CMU200, SN:B23-03291)	Calibration Due: 05/25/2011
Network Analyzer	Agilent(E5071B, MY42301382)	Calibration Due: 03/24/2011
Voltmeter	Keithley (2000, SN:1015843)	Calibration Due: 05/25/2011
Signal Generator	Agilent (E8257C, SN:MY43321570)	Calibration Due: 03/24/2011
Amplifier	Mini-Circuits (ZHL-42, SN:110405)	Calibration Due: 07/29/2011
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibration Due: 03/24/2011
Probe	Antennessa (SN:SN_1109_EP_100)	Calibration Due: 05/05/2011
DIPOLE 835	Antennessa (DIPI32,SN 48/05)	Calibration Due: 02/10/2011
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibration Due: N/A
Liquid	Antennessa	Calibration Due: N/A
Measurement SW	OPEN SAR V2.1	Calibration Due: N/A



## C. SAR Measurement Results

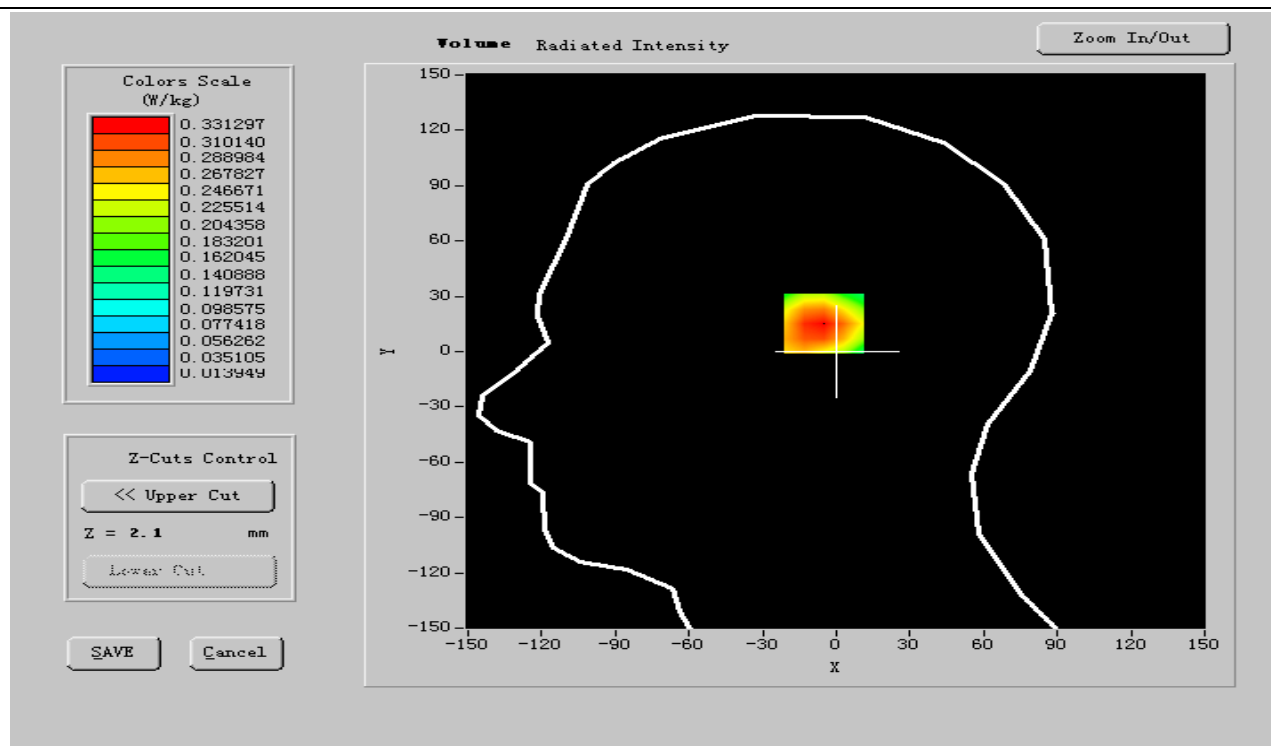
Frequency (MHz)	824.200012
Relative permittivity (real part)	41.466365
Relative permittivity (imaginary part)	19.511101
Conductivity (S/m)	0.923253
Variation (%)	-0.170000
Ambient Temperature:	21 °C
Liquid Temperature:	20 °C
ConvF:	20.66, 20.51, 28.36
Crest factor:	1:8

### SURFACE SAR





## VOLUME SAR



Maximum location: X=-13.00, Y=-3.00

SAR 10g (W/Kg)	0.331285
SAR 1g (W/Kg)	0.433596

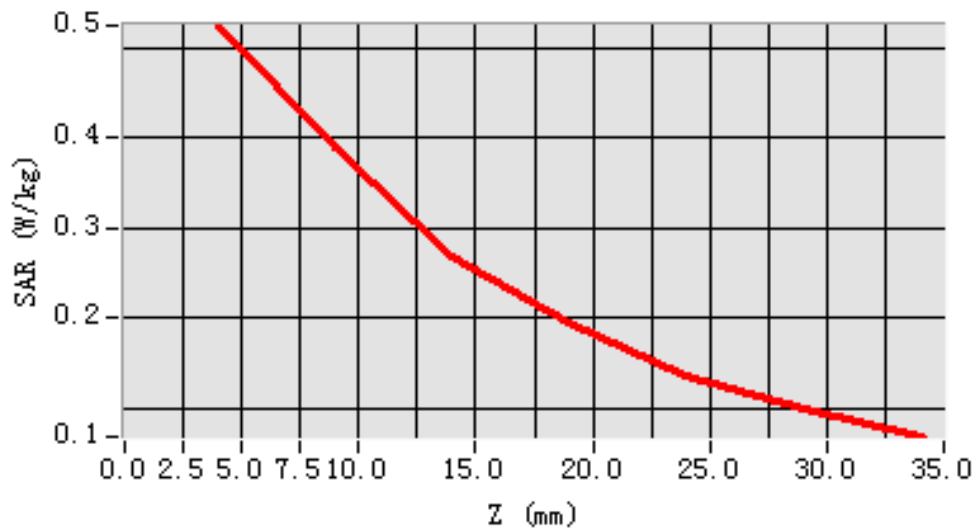
### Z Axis Scan

Z(mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/kg)	0.0000	0.4918	0.5332	0.2564	0.1821	0.1443	0.1454





SAR, Z Axis Scan (X = -22, Y = -6)





## MEASUREMENT 11

Date of measurement: 1/11/2010

Area Scan: 7 x 7 x 1

dx=15mm

dy=15mm

Zoom Scan: 5 x 5 x 7

dx=5mm

dy=5mm

dz=5mm

Z Axis Scan: 1 x 1 x 21

dx=20mm

dy=20mm

dz=5mm

### A. Experimental conditions.

Phantom File	zinf15.txt, Adaptive 2 max
Phantom	Left head
Device Position	Tilt
Band	GSM850
Channels	Middle
Signal	GSM

### B. Instrumentations.

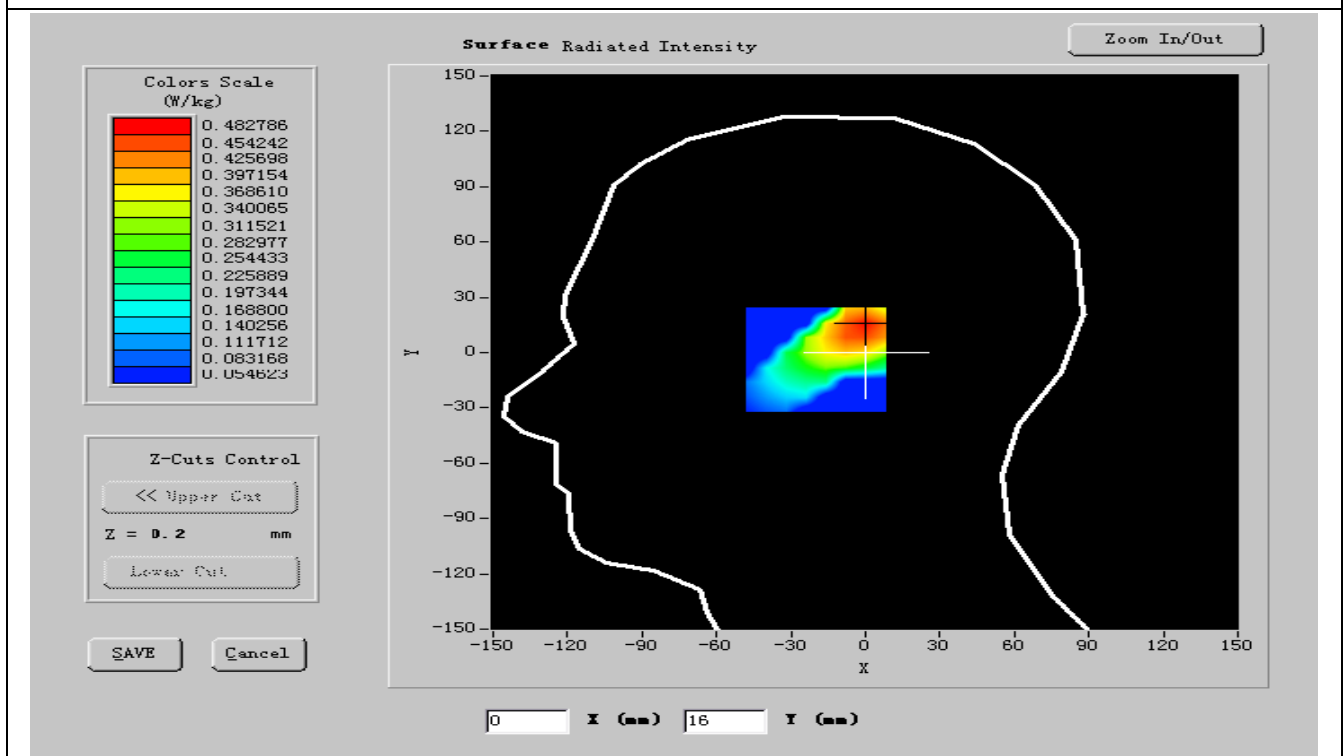
PC	HP (Pentium(R) V3.06GHz, SN:375052-AA1)	Calibration Due: N/A
Wireless Communication Test Set	R&S (CMU200, SN:B23-03291)	Calibration Due: 05/25/2011
Network Analyzer	Agilent(E5071B, MY42301382)	Calibration Due: 03/24/2011
Voltmeter	Keithley (2000, SN:1015843)	Calibration Due: 05/25/2011
Signal Generator	Agilent (E8257C, SN:MY43321570)	Calibration Due: 03/24/2011
Amplifier	Mini-Circuits (ZHL-42, SN:110405)	Calibration Due: 07/29/2011
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibration Due: 03/24/2011
Probe	Antennessa (SN:SN_1109_EP_100)	Calibration Due: 05/05/2011
DIPOLE 835	Antennessa (DIPI32,SN 48/05)	Calibration Due: 02/10/2011
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibration Due: N/A
Liquid	Antennessa	Calibration Due: N/A
Measurement SW	OPEN SAR V2.1	Calibration Due: N/A



## C. SAR Measurement Results

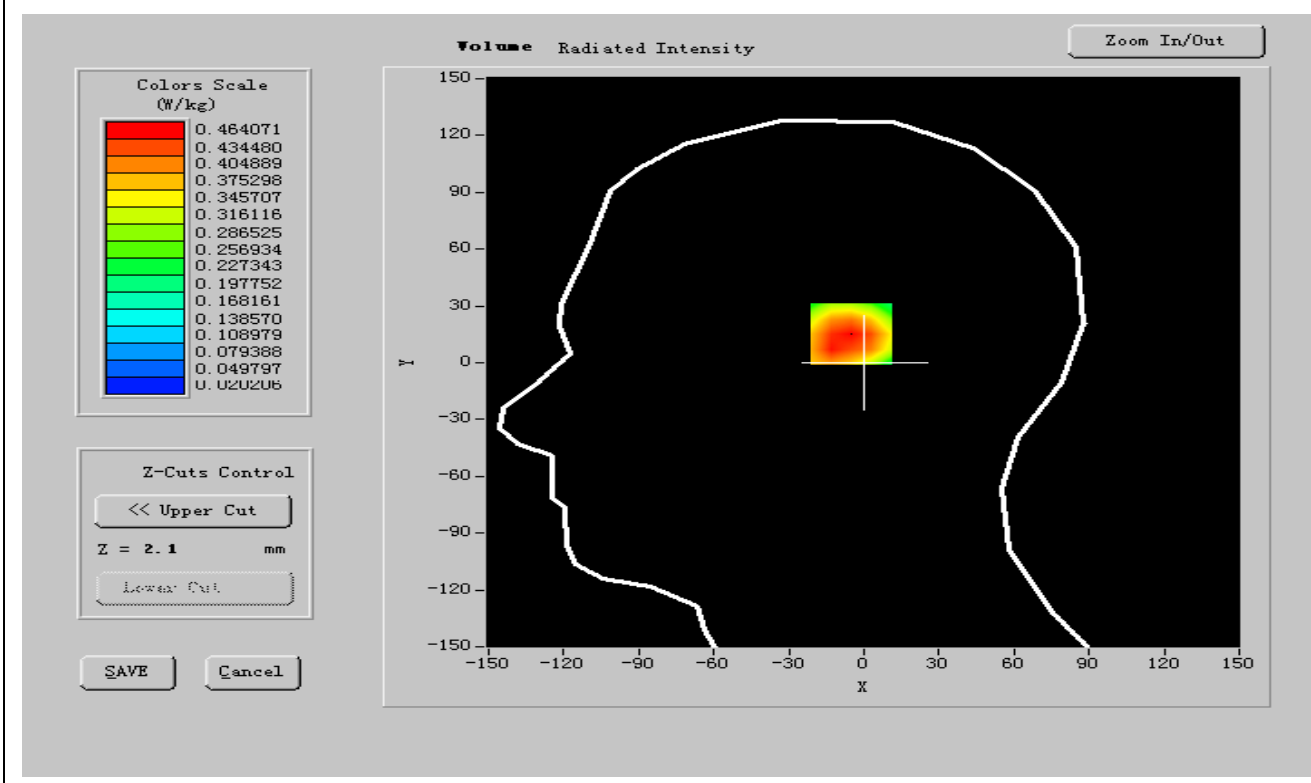
Frequency (MHz)	836.400024
Relative permittivity (real part)	41.467953
Relative permittivity (imaginary part)	19.511101
Conductivity (S/m)	0.916214
Variation (%)	-1.170000
Ambient Temperature:	21 °C
Liquid Temperature:	20 °C
ConvF:	20.66, 20.51, 28.36
Crest factor:	1:8

### SURFACE SAR





## VOLUME SAR



Maximum location: X=-13.00, Y=-3.00

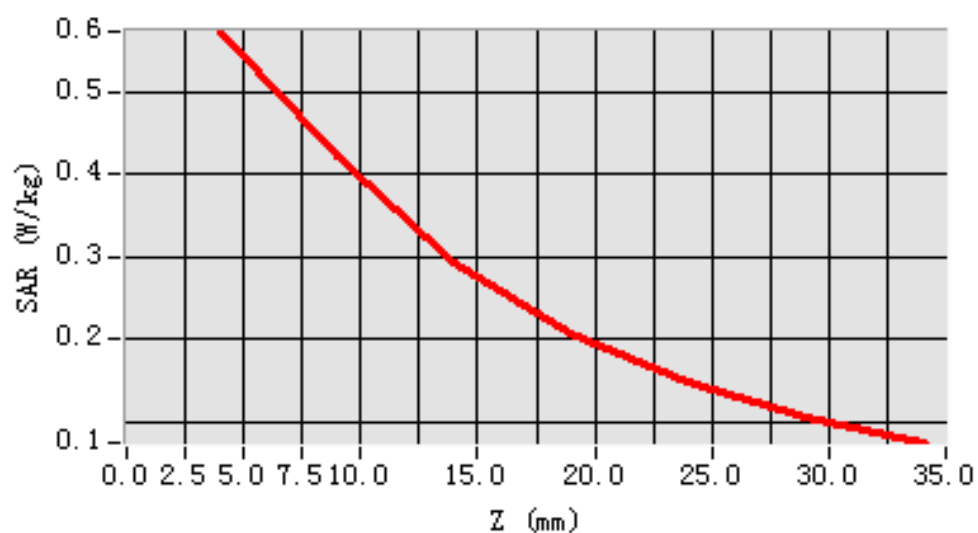
SAR 10g (W/Kg)	0.373401
SAR 1g (W/Kg)	0.579234

### Z Axis Scan

Z(mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/kg)	0.0000	0.5533	0.4132	0.2964	0.2021	0.1643	0.1154



**SAR, Z Axis Scan (X = -22, Y = -6)**





## MEASUREMENT 12

**Date of measurement: 1/11/2010****Area Scan: 7 x 7 x 1****dx=15mm****dy=15mm****Zoom Scan: 5 x 5 x 7****dx=5mm****dy=5mm****dz=5mm****Z Axis Scan: 1 x 1 x 21****dx=20mm****dy=20mm****dz=5mm**

### A. Experimental conditions.

<b>Phantom File</b>	zinf15.txt, Adaptive 2 max
<b>Phantom</b>	Left head
<b>Device Position</b>	Tilt
<b>Band</b>	GSM850
<b>Channels</b>	High
<b>Signal</b>	GSM

### B. Instrumentations.

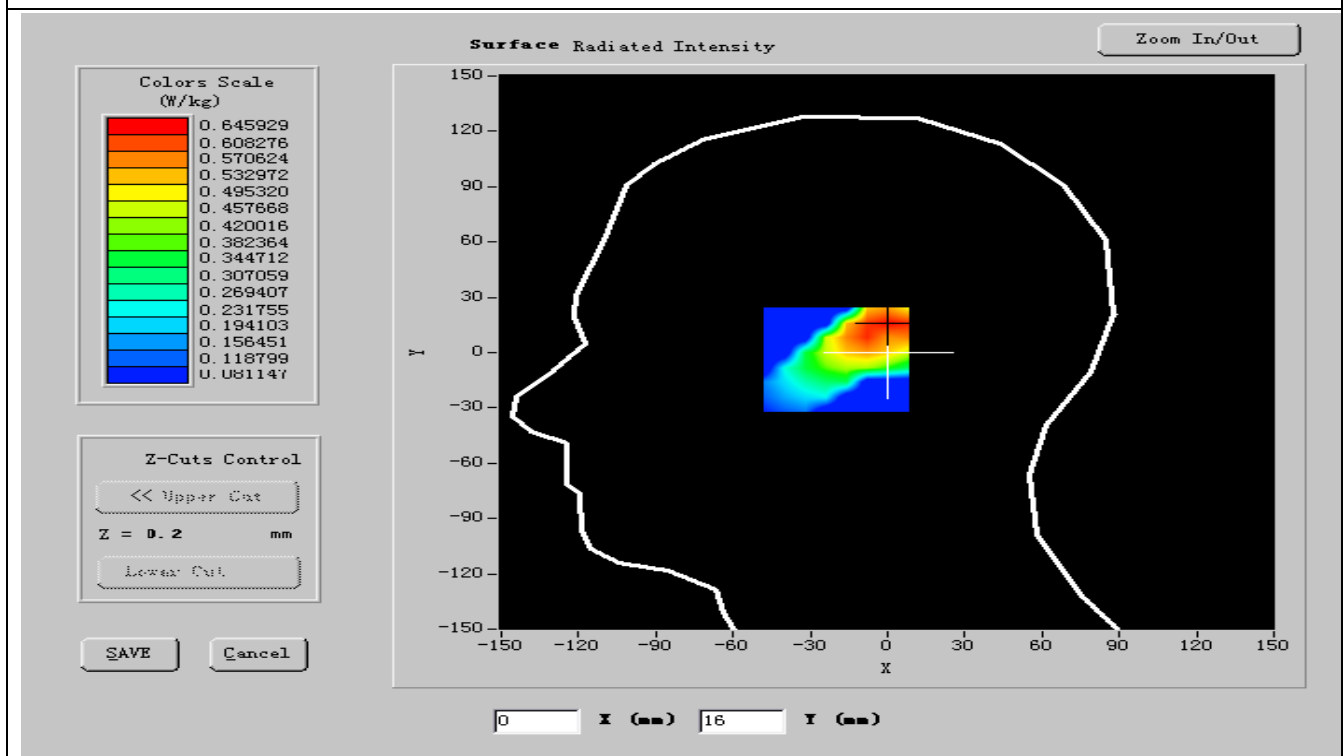
<b>PC</b>	HP (Pentium(R) V3.06GHz, SN:375052-AA1)	Calibration Due: N/A
<b>Wireless Communication Test Set</b>	R&S (CMU200, SN:B23-03291)	Calibration Due: 05/25/2011
<b>Network Analyzer</b>	Agilent(E5071B, MY42301382)	Calibration Due: 03/24/2011
<b>Voltmeter</b>	Keithley (2000, SN:1015843)	Calibration Due: 05/25/2011
<b>Signal Generator</b>	Agilent (E8257C, SN:MY43321570)	Calibration Due: 03/24/2011
<b>Amplifier</b>	Mini-Circuits (ZHL-42, SN:110405)	Calibration Due: 07/29/2011
<b>Power Meter</b>	Agilent (E4416A, SN:QB41292714)	Calibration Due: 03/24/2011
<b>Probe</b>	Antennessa (SN:SN_1109_EP_100)	Calibration Due: 05/05/2011
<b>DIPOLE 835</b>	Antennessa (DIP132,SN 48/05)	Calibration Due: 02/10/2011
<b>Phantom</b>	Antennessa (SN:SN41_05_SAM29)	Calibration Due: N/A
<b>Liquid</b>	Antennessa	Calibration Due: N/A
<b>Measurement SW</b>	OPEN SAR V2.1	Calibration Due: N/A



## C. SAR Measurement Results

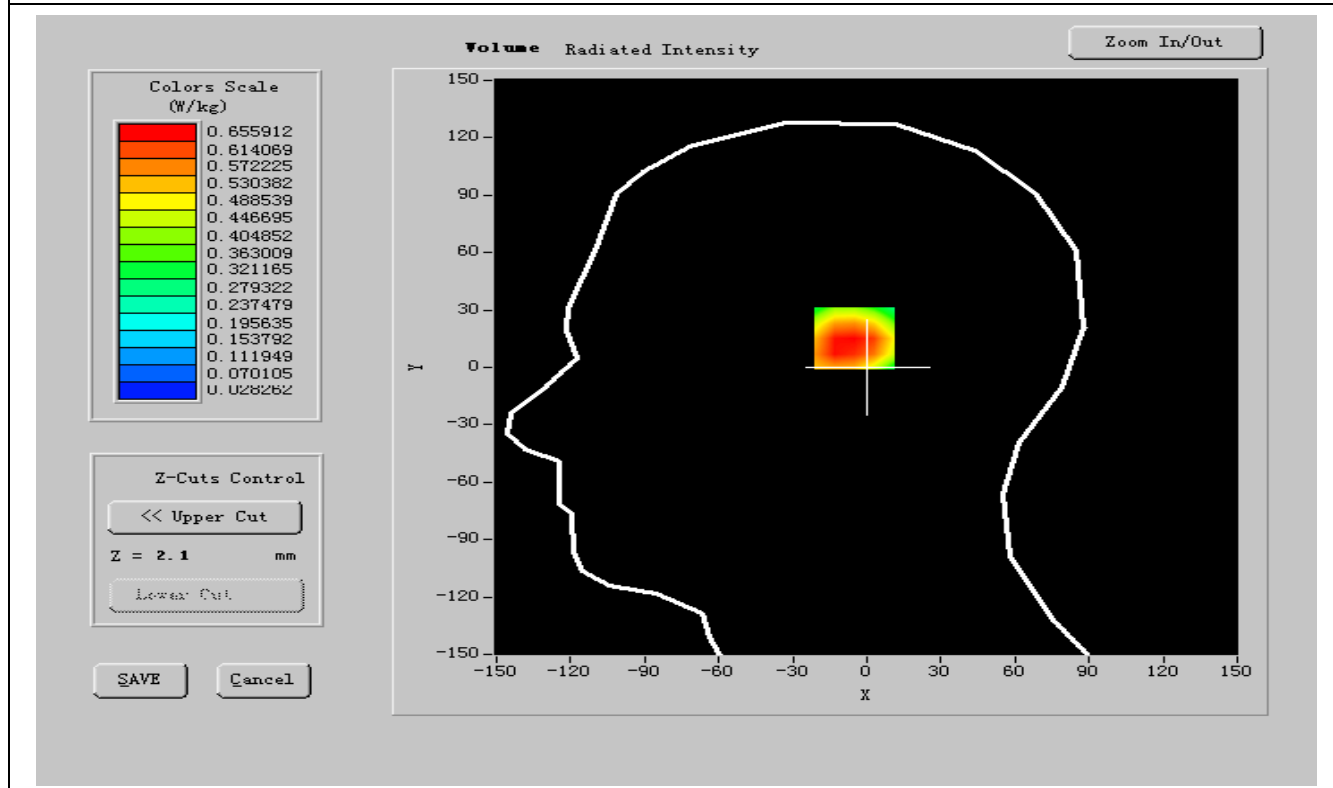
Frequency (MHz)	848.599976
Relative permittivity (real part)	41.262023
Relative permittivity (imaginary part)	19.598200
Conductivity (S/m)	0.923946
Variation (%)	-1.000000
Ambient Temperature:	21 °C
Liquid Temperature:	20 °C
ConvF:	20.66, 20.51, 28.36
Crest factor:	1:8

### SURFACE SAR





## VOLUME SAR



Maximum location: X=-13.00, Y=-3.00

SAR 10g (W/Kg)	0.362348
SAR 1g (W/Kg)	0.556432

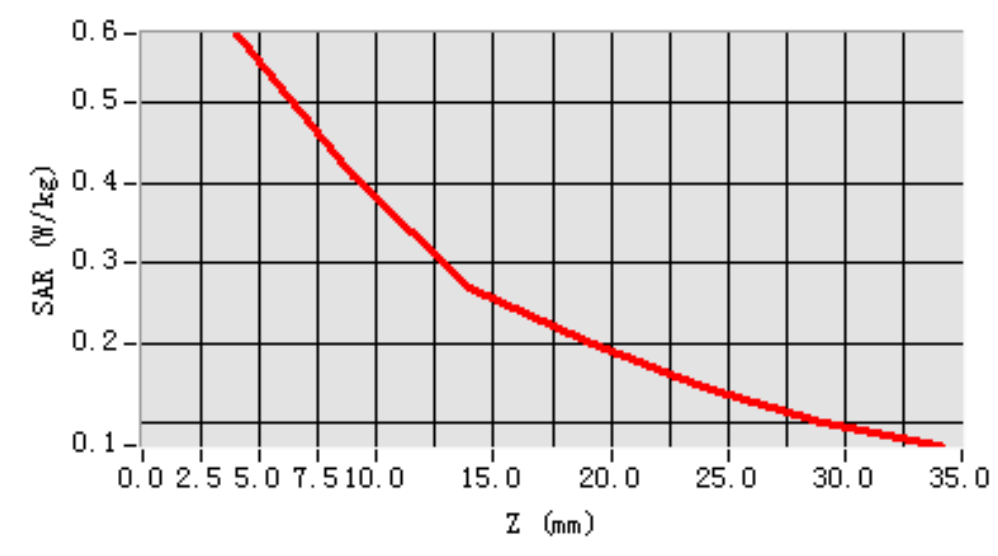
### Z Axis Scan

Z(mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/kg)	0.0000	0.5510	0.4142	0.2664	0.2020	0.1543	0.1054





SAR, Z Axis Scan (X = -22, Y = -6)



**MEASUREMENT 13****Date of measurement: 1/11/2010****Area Scan: 7 x 7 x 1****dx=15mm****dy=15mm****Zoom Scan: 5 x 5 x 7****dx=5mm****dy=5mm****dz=5mm****Z Axis Scan: 1 x 1 x 21****dx=20mm****dy=20mm****dz=5mm****A. Experimental conditions.**

<b>Phantom File</b>	zinf15.txt, Adaptive 2 max
<b>Phantom</b>	Body
<b>Device Position</b>	FrontSide toward phantom
<b>Band</b>	GSM850
<b>Channels</b>	Low
<b>Signal</b>	GSM

**B. Instrumentations.**

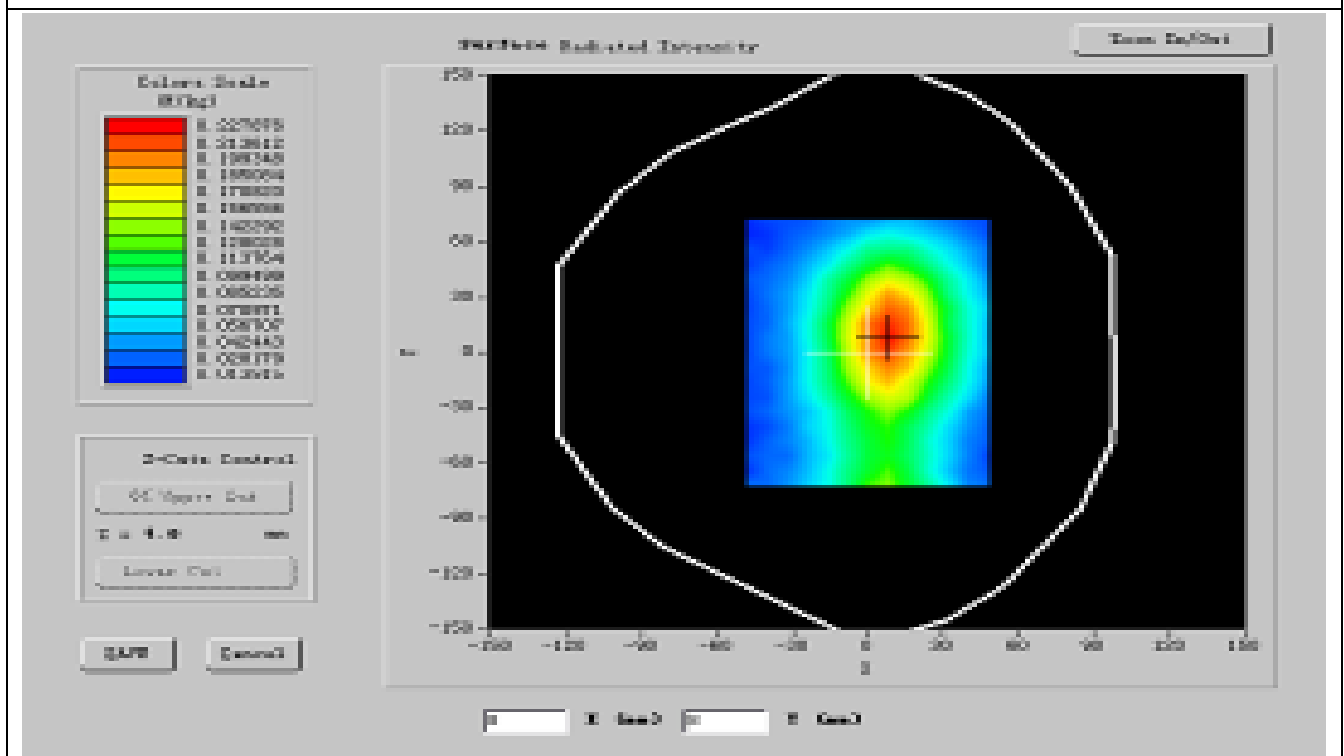
<b>PC</b>	HP (Pentium(R) V3.06GHz, SN:375052-AA1)	Calibration Due: N/A
<b>Wireless Communication Test Set</b>	R&S (CMU200, SN:B23-03291)	Calibration Due: 05/25/2011
<b>Network Analyzer</b>	Agilent(E5071B, MY42301382)	Calibration Due: 03/24/2011
<b>Voltmeter</b>	Keithley (2000, SN:1015843)	Calibration Due: 05/25/2011
<b>Signal Generator</b>	Agilent (E8257C, SN:MY43321570)	Calibration Due: 03/24/2011
<b>Amplifier</b>	Mini-Circuits (ZHL-42, SN:110405)	Calibration Due: 07/29/2011
<b>Power Meter</b>	Agilent (E4416A, SN:QB41292714)	Calibration Due: 03/24/2011
<b>Probe</b>	Antennessa (SN:SN_1109_EP_100)	Calibration Due: 05/05/2011
<b>DIPOLE 835</b>	Antennessa (DIPI32,SN 48/05)	Calibration Due: 02/10/2011
<b>Phantom</b>	Antennessa (SN:SN41_05_SAM29)	Calibration Due: N/A
<b>Liquid</b>	Antennessa	Calibration Due: N/A
<b>Measurement SW</b>	OPEN SAR V2.1	Calibration Due: N/A



## C. SAR Measurement Results

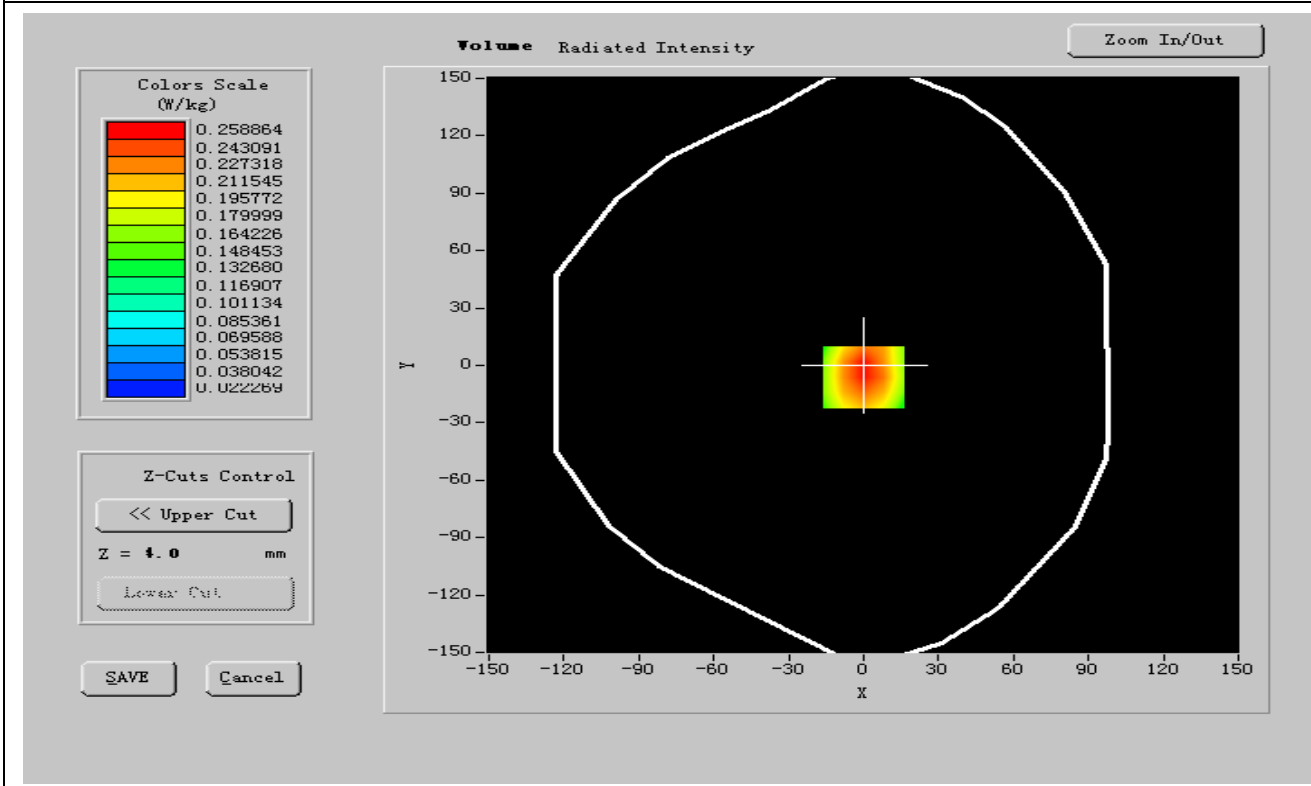
Frequency (MHz)	824.200012
Relative permittivity (real part)	56.514000
Relative permittivity (imaginary part)	21.654150
Conductivity (S/m)	0.984519
Variation (%)	-2.120000
Ambient Temperature:	21 °C
Liquid Temperature:	20 °C
ConvF:	20.00, 19.88, 27.77
Crest factor:	1:8

### SURFACE SAR





## VOLUME SAR



Maximum location: X=-13.00, Y=-3.00

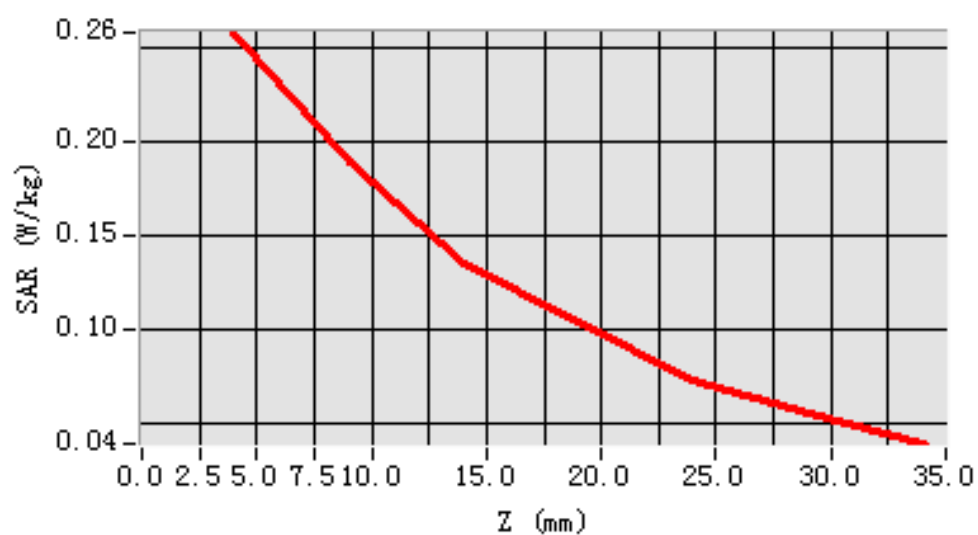
SAR 10g (W/Kg)	0.169431
SAR 1g (W/Kg)	0.259721

### Z Axis Scan

Z(mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/kg)	0.0000	0.2512	0.1242	0.1464	0.1020	0.0631	0.0454



SAR, Z Axis Scan (X = 0, Y = -6)



**MEASUREMENT 14****Date of measurement: 1/11/2010****Area Scan: 7 x 7 x 1****dx=15mm****dy=15mm****Zoom Scan: 5 x 5 x 7****dx=5mm****dy=5mm****dz=5mm****Z Axis Scan: 1 x 1 x 21****dx=20mm****dy=20mm****dz=5mm****A. Experimental conditions.**

<b>Phantom File</b>	zinf15.txt, Adaptive 2 max
<b>Phantom</b>	Body
<b>Device Position</b>	FrontSide toward phantom
<b>Band</b>	GSM850
<b>Channels</b>	Middle
<b>Signal</b>	GSM

**B. Instrumentations.**

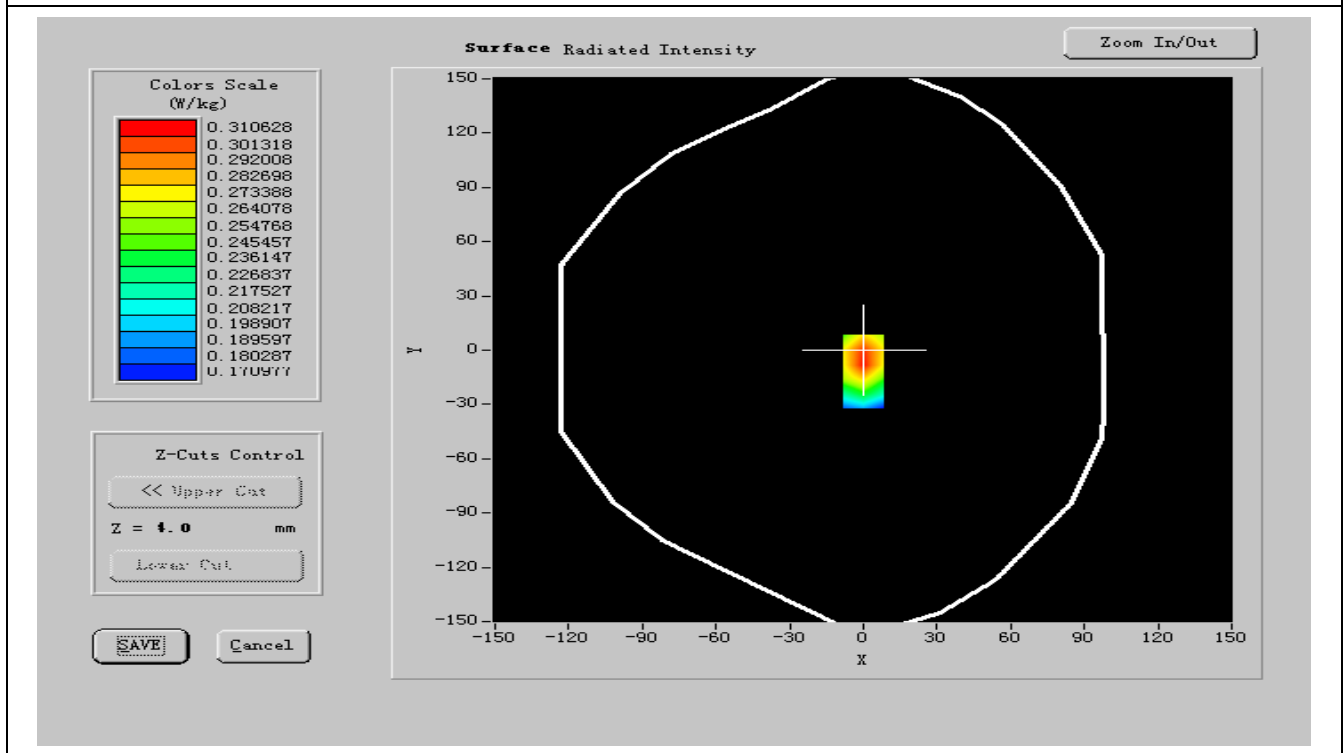
<b>PC</b>	HP (Pentium(R) V3.06GHz, SN:375052-AA1)	Calibration Due: N/A
<b>Wireless Communication Test Set</b>	R&S (CMU200, SN:B23-03291)	Calibration Due: 05/25/2011
<b>Network Analyzer</b>	Agilent(E5071B, MY42301382)	Calibration Due: 03/24/2011
<b>Voltmeter</b>	Keithley (2000, SN:1015843)	Calibration Due: 05/25/2011
<b>Signal Generator</b>	Agilent (E8257C, SN:MY43321570)	Calibration Due: 03/24/2011
<b>Amplifier</b>	Mini-Circuits (ZHL-42, SN:110405)	Calibration Due: 07/29/2011
<b>Power Meter</b>	Agilent (E4416A, SN:QB41292714)	Calibration Due: 03/24/2011
<b>Probe</b>	Antennessa (SN:SN_1109_EP_100)	Calibration Due: 05/05/2011
<b>DIPOLE 835</b>	Antennessa (DIP132,SN 48/05)	Calibration Due: 02/10/2011
<b>Phantom</b>	Antennessa (SN:SN41_05_SAM29)	Calibration Due: N/A
<b>Liquid</b>	Antennessa	Calibration Due: N/A
<b>Measurement SW</b>	OPEN SAR V2.1	Calibration Due: N/A



## C. SAR Measurement Results

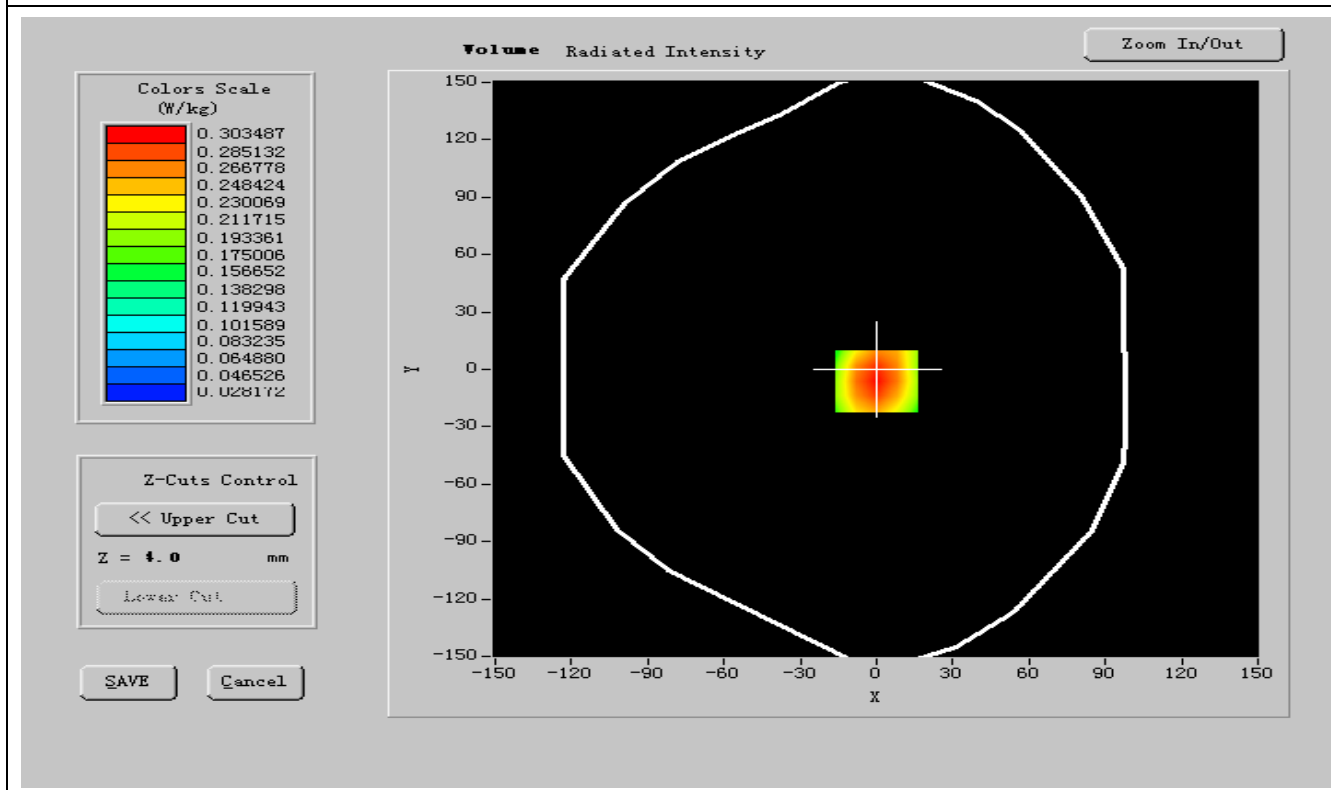
Frequency (MHz)	836.400024
Relative permittivity (real part)	56.501935
Relative permittivity (imaginary part)	21.866249
Conductivity (S/m)	0.986052
Variation (%)	-2.120000
Ambient Temperature:	21 °C
Liquid Temperature:	20 °C
ConvF:	20.00, 19.88, 27.77
Crest factor:	1:8

### SURFACE SAR





## VOLUME SAR



Maximum location: X=-13.00, Y=-3.00

SAR 10g (W/Kg)	0.223480
SAR 1g (W/Kg)	0.298148

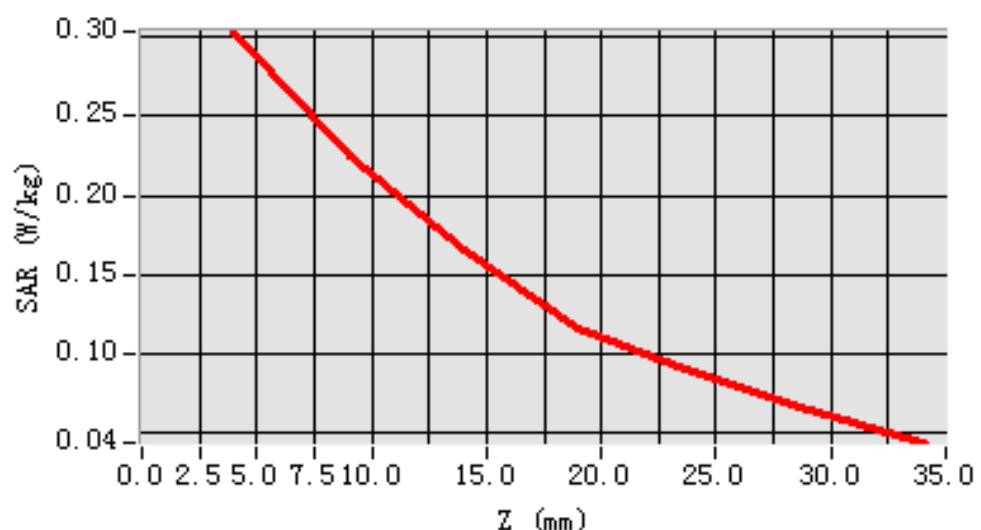
### Z Axis Scan

Z(mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/kg)	0.0000	0.2890	0.2342	0.1664	0.1120	0.0887	0.0422





SAR, Z Axis Scan (X = 0, Y = -6)





## MEASUREMENT 15

Date of measurement: 1/11/2010

Area Scan: 7 x 7 x 1

dx=15mm

dy=15mm

Zoom Scan: 5 x 5 x 7

dx=5mm

dy=5mm

dz=5mm

Z Axis Scan: 1 x 1 x 21

dx=20mm

dy=20mm

dz=5mm

### A. Experimental conditions.

Phantom File	zinf15.txt, Adaptive 2 max
Phantom	Body
Device Position	FrontSide toward phantom
Band	GSM850
Channels	High
Signal	GSM

### B. Instrumentations.

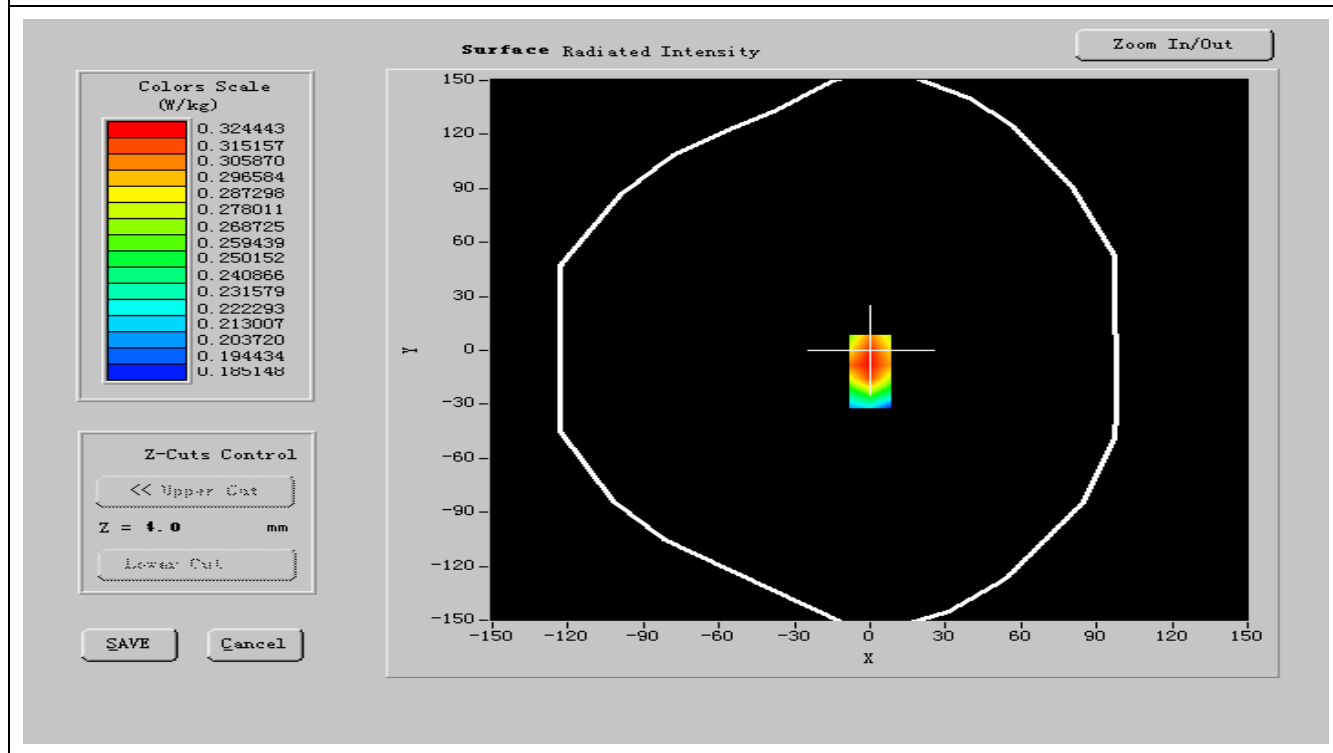
PC	HP (Pentium(R) V3.06GHz, SN:375052-AA1)	Calibration Due: N/A
Wireless Communication Test Set	R&S (CMU200, SN:B23-03291)	Calibration Due: 05/25/2011
Network Analyzer	Agilent(E5071B, MY42301382)	Calibration Due: 03/24/2011
Voltmeter	Keithley (2000, SN:1015843)	Calibration Due: 05/25/2011
Signal Generator	Agilent (E8257C, SN:MY43321570)	Calibration Due: 03/24/2011
Amplifier	Mini-Circuits (ZHL-42, SN:110405)	Calibration Due: 07/29/2011
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibration Due: 03/24/2011
Probe	Antennessa (SN:SN_1109_EP_100)	Calibration Due: 05/05/2011
DIPOLE 835	Antennessa (DIP132,SN 48/05)	Calibration Due: 02/10/2011
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibration Due: N/A
Liquid	Antennessa	Calibration Due: N/A
Measurement SW	OPEN SAR V2.1	Calibration Due: N/A



## C. SAR Measurement Results

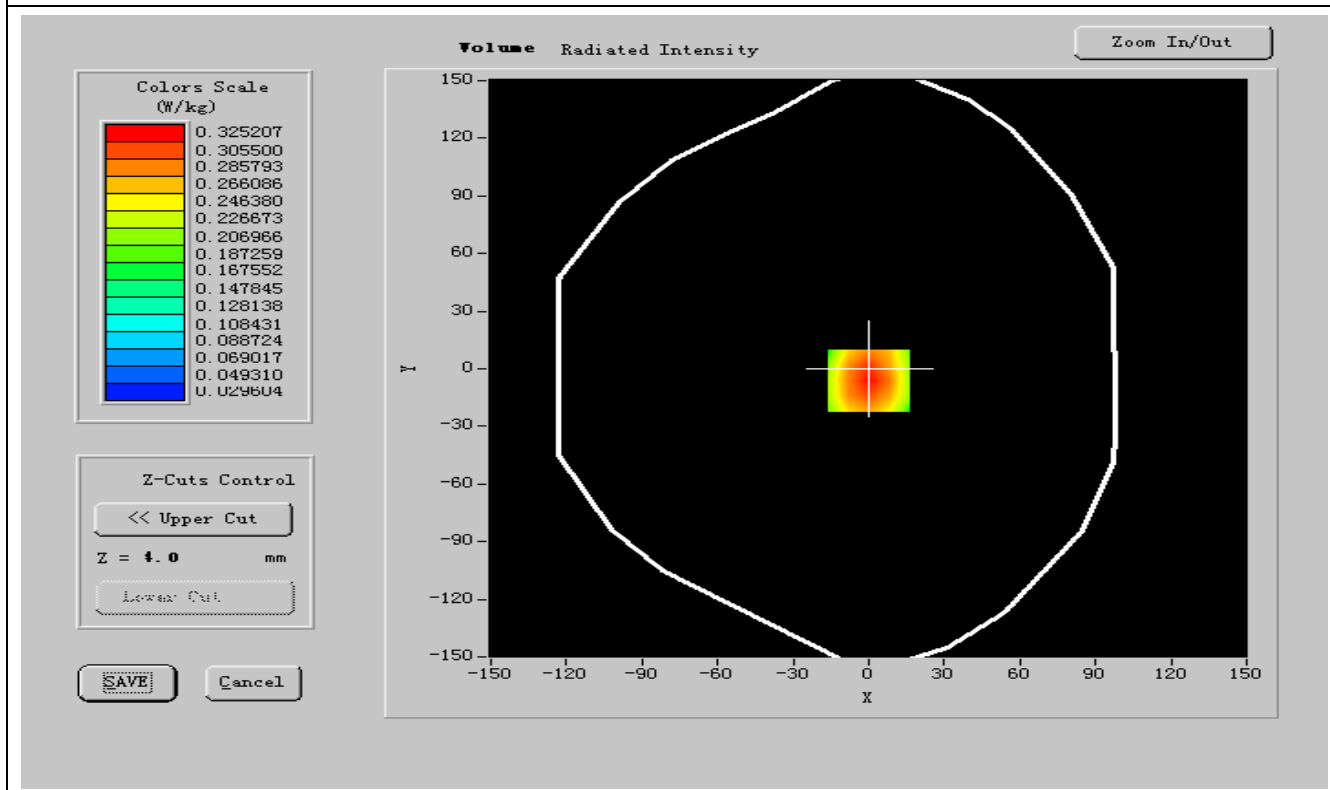
Frequency (MHz)	848.599976
Relative permittivity (real part)	56.508121
Relative permittivity (imaginary part)	21.726601
Conductivity (S/m)	0.983288
Variation (%)	-1.120000
Ambient Temperature:	21 °C
Liquid Temperature:	20 °C
ConvF:	20.00, 19.88, 27.77
Crest factor:	1:8

### SURFACE SAR





## VOLUME SAR



Maximum location: X=-13.00, Y=-3.00

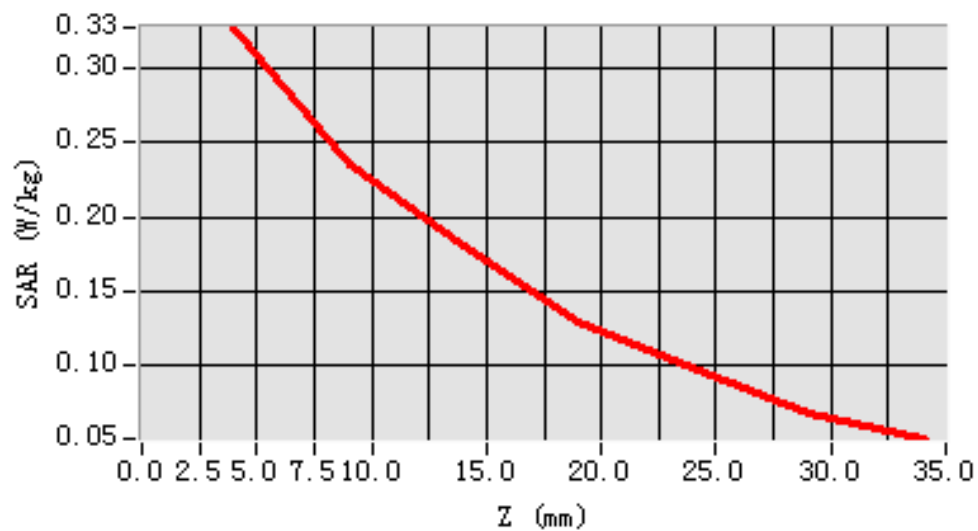
SAR 10g (W/Kg)	0.223497
SAR 1g (W/Kg)	0.315610

### Z Axis Scan

Z(mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/kg)	0.0000	0.3063	0.2322	0.1674	0.1420	0.1800	0.0573



SAR, Z Axis Scan (X = 0, Y = -6)



**MEASUREMENT 16****Date of measurement: 1/11/2010****Area Scan: 7 x 7 x 1****dx=15mm****dy=15mm****Zoom Scan: 5 x 5 x 7****dx=5mm****dy=5mm****dz=5mm****Z Axis Scan: 1 x 1 x 21****dx=20mm****dy=20mm****dz=5mm****A. Experimental conditions.**

<b>Phantom File</b>	zinf15.txt, Adaptive 2 max
<b>Phantom</b>	Body
<b>Device Position</b>	BackSide toward phantom
<b>Band</b>	GSM 850
<b>Channels</b>	Low
<b>Signal</b>	GSM

**B. Instrumentations.**

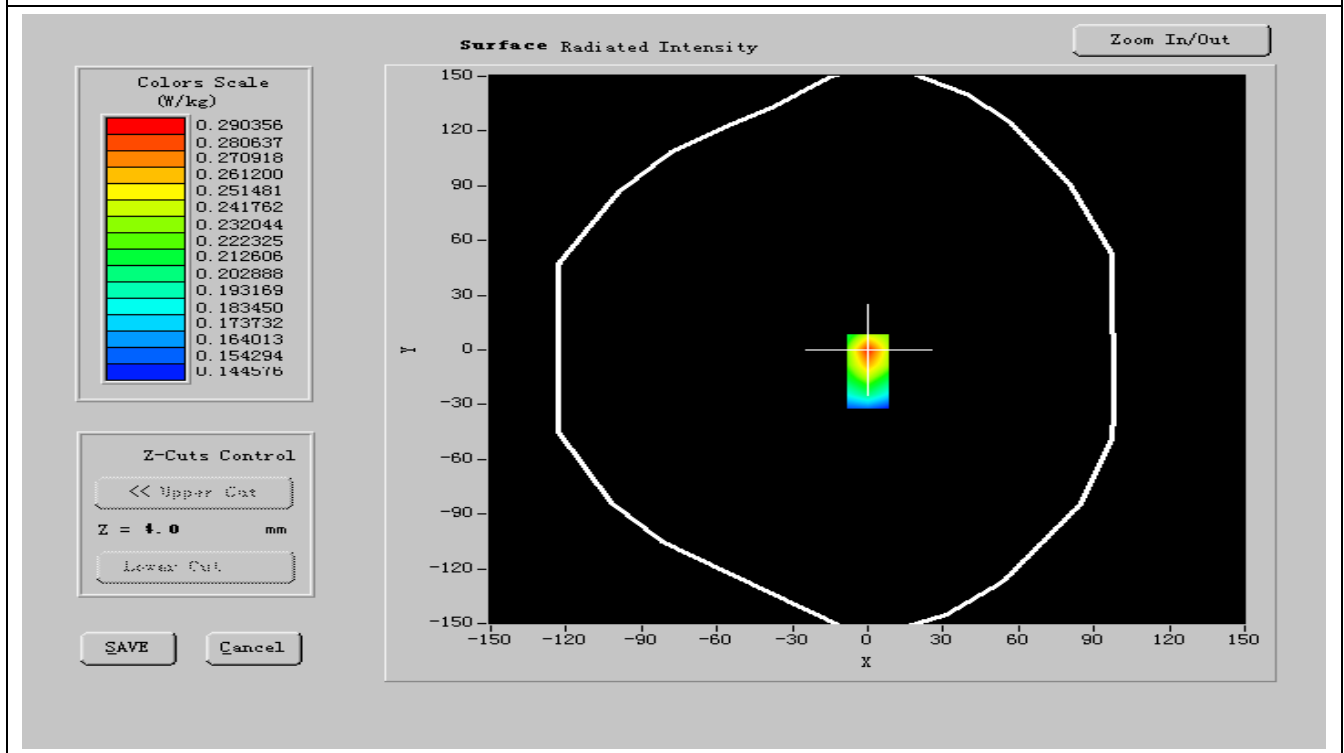
<b>PC</b>	HP (Pentium(R) V3.06GHz, SN:375052-AA1)	Calibration Due: N/A
<b>Wireless Communication Test Set</b>	R&S (CMU200, SN:B23-03291)	Calibration Due: 05/25/2011
<b>Network Analyzer</b>	Agilent(E5071B, MY42301382)	Calibration Due: 03/24/2011
<b>Voltmeter</b>	Keithley (2000, SN:1015843)	Calibration Due: 05/25/2011
<b>Signal Generator</b>	Agilent (E8257C, SN:MY43321570)	Calibration Due: 03/24/2011
<b>Amplifier</b>	Mini-Circuits (ZHL-42, SN:110405)	Calibration Due: 07/29/2011
<b>Power Meter</b>	Agilent (E4416A, SN:QB41292714)	Calibration Due: 03/24/2011
<b>Probe</b>	Antennessa (SN:SN_1109_EP_100)	Calibration Due: 05/05/2011
<b>DIPOLE 835</b>	Antennessa (DIP132,SN 48/05)	Calibration Due: 02/10/2011
<b>Phantom</b>	Antennessa (SN:SN41_05_SAM29)	Calibration Due: N/A
<b>Liquid</b>	Antennessa	Calibration Due: N/A
<b>Measurement SW</b>	OPEN SAR V2.1	Calibration Due: N/A



### C. SAR Measurement Results

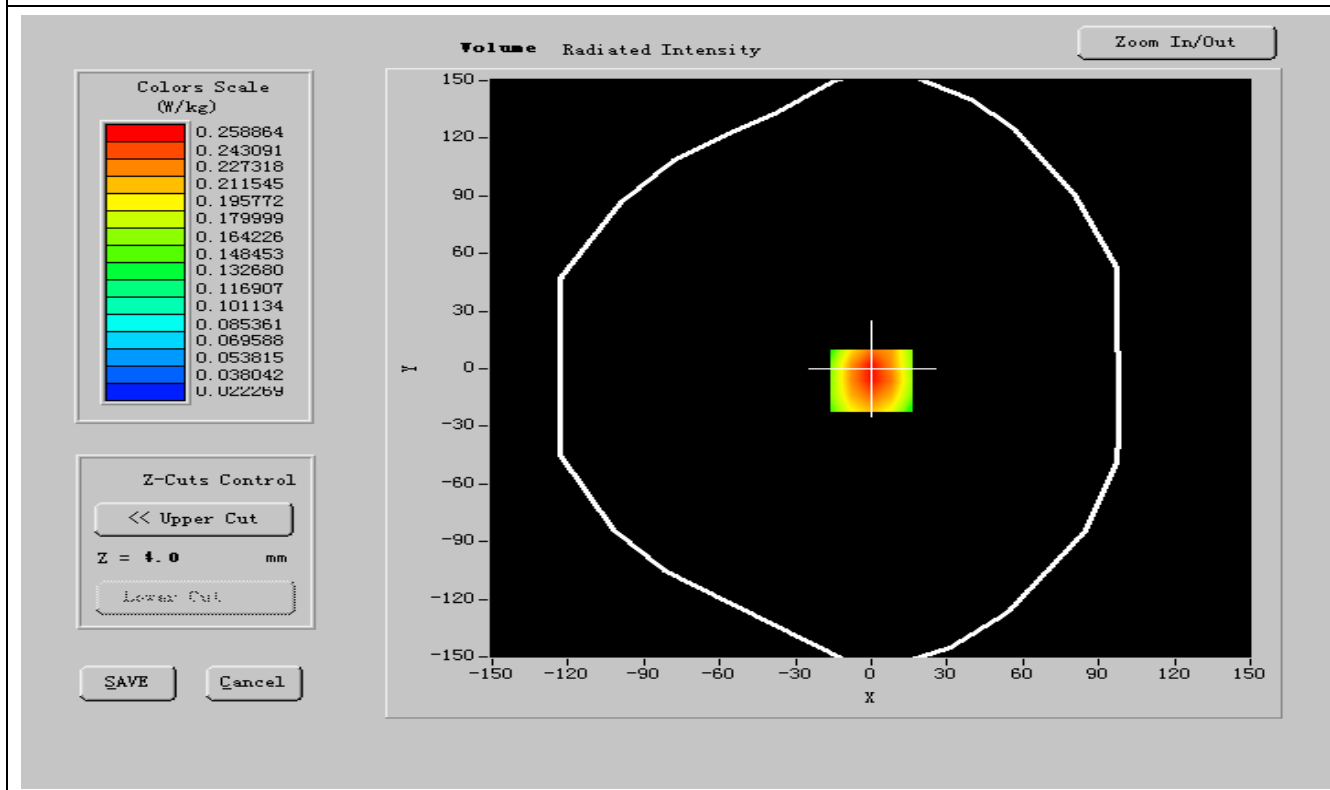
Frequency (MHz)	824.200012
Relative permittivity (real part)	56.584000
Relative permittivity (imaginary part)	21.654150
Conductivity (S/m)	0.971519
Variation (%)	-1.120000
Ambient Temperature:	21 °C
Liquid Temperature:	20 °C
ConvF:	20.00, 19.88, 27.77
Crest factor:	1:8

#### SURFACE SAR





## VOLUME SAR



Maximum location: X=-13.00, Y=-3.00

SAR 10g (W/Kg)	0.176145
SAR 1g (W/Kg)	0.268642

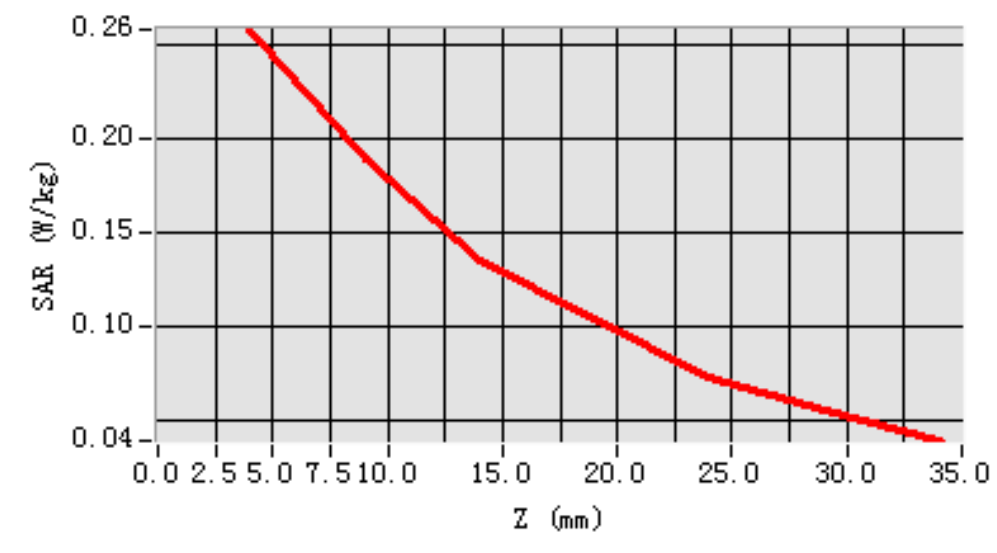
### Z Axis Scan

Z(mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/kg)	0.0000	0.2878	0.1722	0.1474	0.1023	0.0887	0.0511





SAR, Z Axis Scan (X = 0, Y = -6)



**MEASUREMENT 17****Date of measurement: 1/11/2010****Area Scan: 7 x 7 x 1****dx=15mm****dy=15mm****Zoom Scan: 5 x 5 x 7****dx=5mm****dy=5mm****dz=5mm****Z Axis Scan: 1 x 1 x 21****dx=20mm****dy=20mm****dz=5mm****A. Experimental conditions.**

<b>Phantom File</b>	zinf15.txt, Adaptive 2 max
<b>Phantom</b>	Body
<b>Device Position</b>	BackSide toward phantom
<b>Band</b>	GSM850
<b>Channels</b>	Middle
<b>Signal</b>	GSM

**B. Instrumentations.**

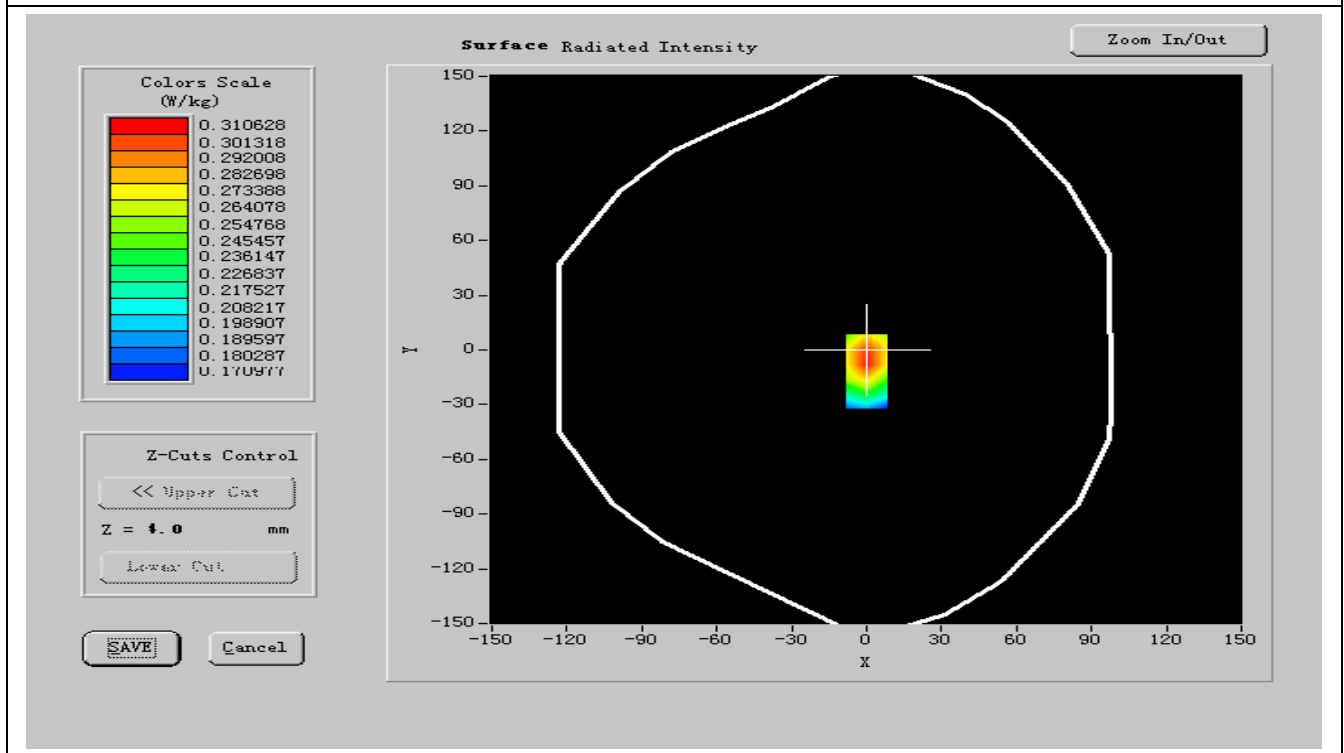
<b>PC</b>	HP (Pentium(R) V3.06GHz, SN:375052-AA1)	Calibration Due: N/A
<b>Wireless Communication Test Set</b>	R&S (CMU200, SN:B23-03291)	Calibration Due: 05/25/2011
<b>Network Analyzer</b>	Agilent(E5071B, MY42301382)	Calibration Due: 03/24/2011
<b>Voltmeter</b>	Keithley (2000, SN:1015843)	Calibration Due: 05/25/2011
<b>Signal Generator</b>	Agilent (E8257C, SN:MY43321570)	Calibration Due: 03/24/2011
<b>Amplifier</b>	Mini-Circuits (ZHL-42, SN:110405)	Calibration Due: 07/29/2011
<b>Power Meter</b>	Agilent (E4416A, SN:QB41292714)	Calibration Due: 03/24/2011
<b>Probe</b>	Antennessa (SN:SN_1109_EP_100)	Calibration Due: 05/05/2011
<b>DIPOLE 835</b>	Antennessa (DIPI32,SN 48/05)	Calibration Due: 02/10/2011
<b>Phantom</b>	Antennessa (SN:SN41_05_SAM29)	Calibration Due: N/A
<b>Liquid</b>	Antennessa	Calibration Due: N/A
<b>Measurement SW</b>	OPEN SAR V2.1	Calibration Due: N/A



### C. SAR Measurement Results

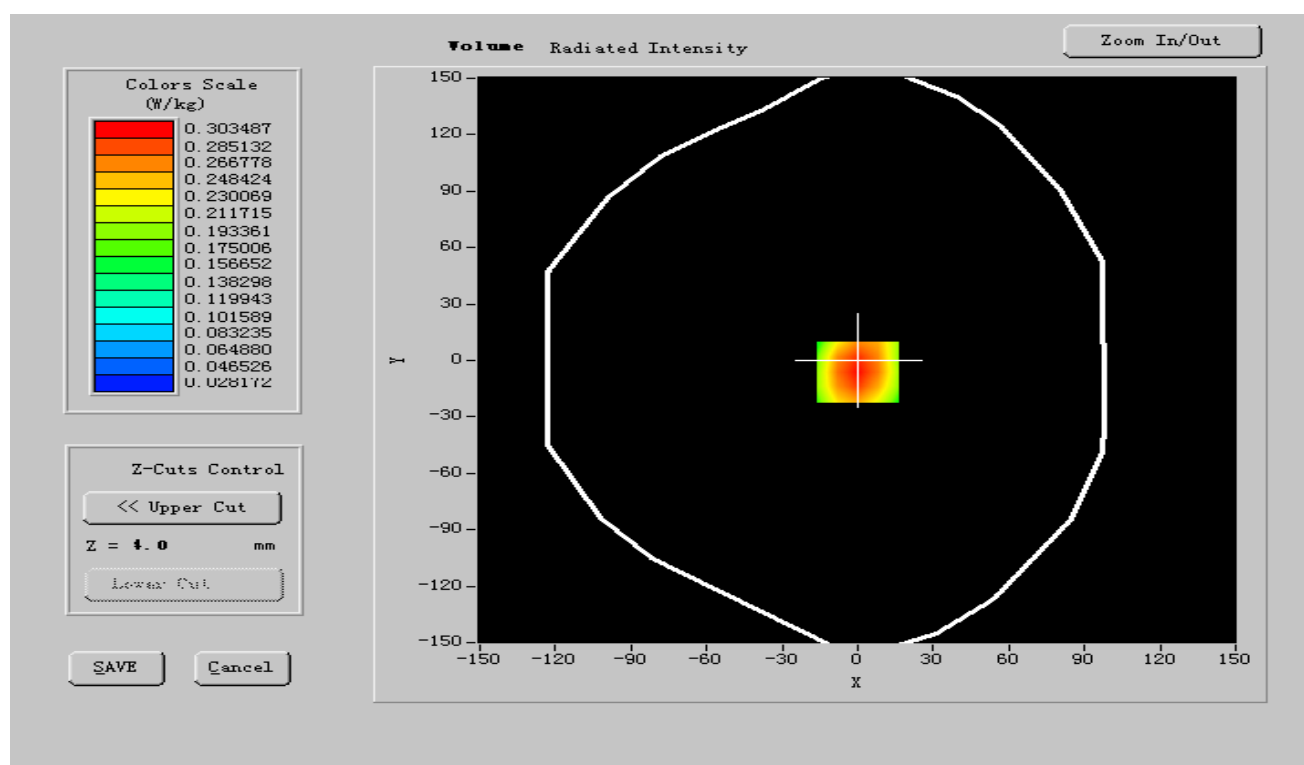
Frequency (MHz)	836.400024
Relative permittivity (real part)	55.501999
Relative permittivity (imaginary part)	21.866249
Conductivity (S/m)	1.006342
Variation (%)	-0.200000
Ambient Temperature:	21 °C
Liquid Temperature:	20 °C
ConvF:	20.00, 19.88, 27.77
Crest factor:	1:8

#### SURFACE SAR





## VOLUME SAR



Maximum location: X=-13.00, Y=-3.00

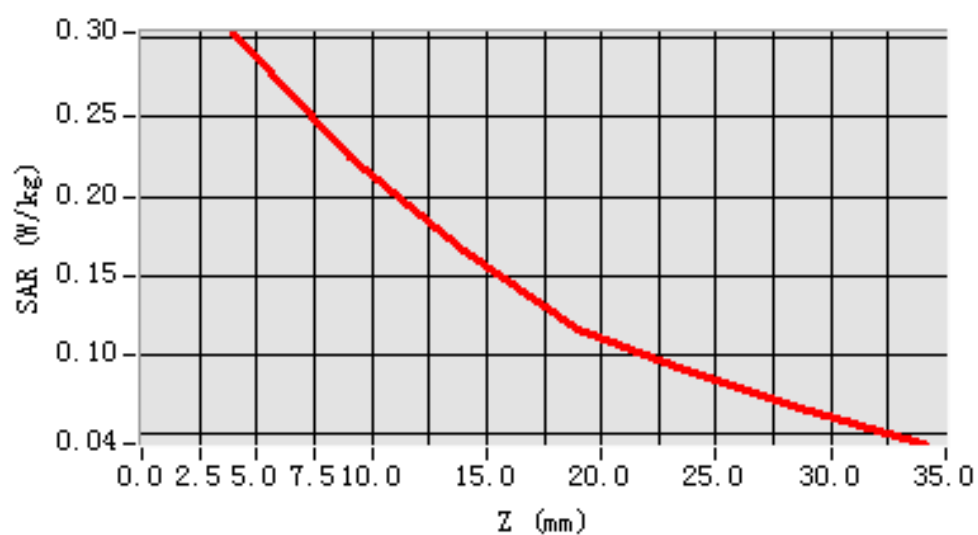
SAR 10g (W/Kg)	0.244679
SAR 1g (W/Kg)	0.275248

### Z Axis Scan

Z(mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/kg)	0.0000	0.2878	0.1722	0.1474	0.1023	0.0887	0.0511



SAR, Z Axis Scan (X = 0, Y = -6)





## MEASUREMENT 18

**Date of measurement: 1/11/2010****Area Scan: 7 x 7 x 1****dx=15mm****dy=15mm****Zoom Scan: 5 x 5 x 7****dx=5mm****dy=5mm****dz=5mm****Z Axis Scan: 1 x 1 x 21****dx=20mm****dy=20mm****dz=5mm**

### A. Experimental conditions.

<b>Phantom File</b>	zinf15.txt, Adaptive 2 max
<b>Phantom</b>	Body
<b>Device Position</b>	BackSide toward phantom
<b>Band</b>	GSM850
<b>Channels</b>	High
<b>Signal</b>	GSM

### B. Instrumentations.

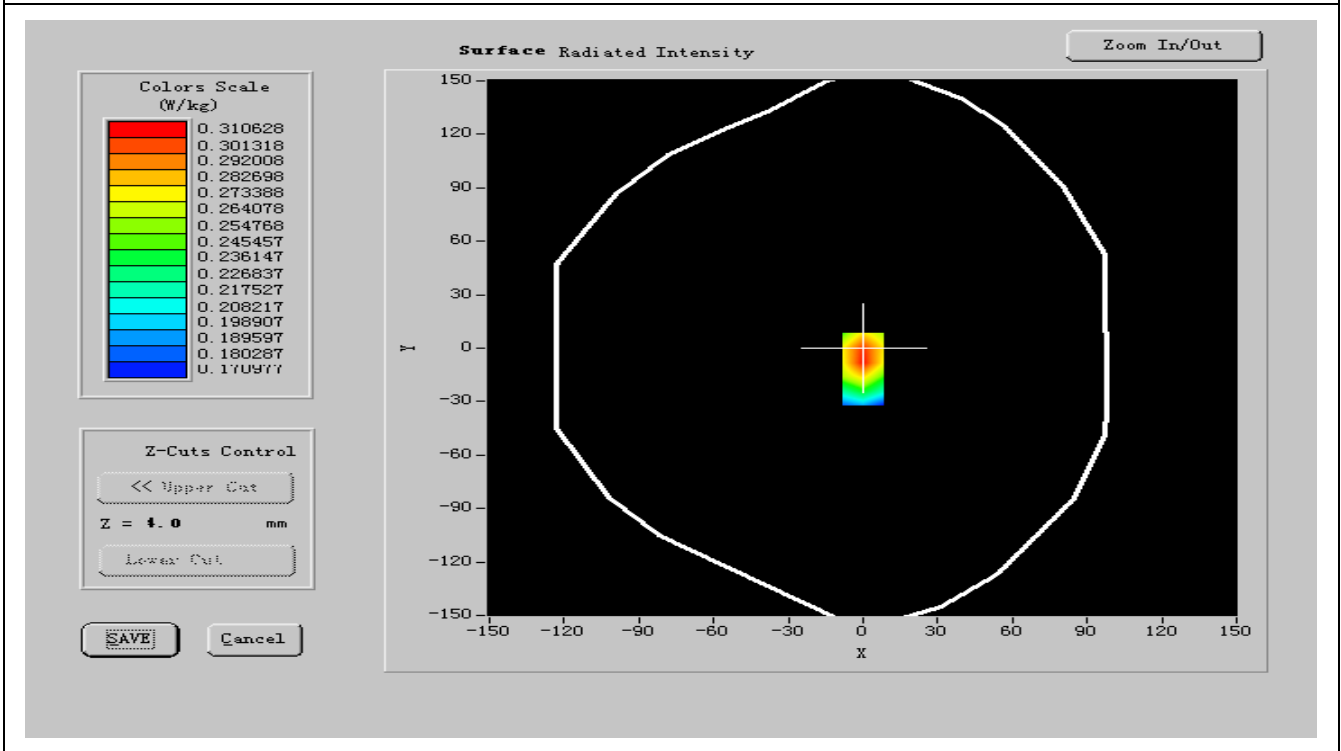
<b>PC</b>	HP (Pentium(R) V3.06GHz, SN:375052-AA1)	Calibration Due: N/A
<b>Wireless Communication Test Set</b>	R&S (CMU200, SN:B23-03291)	Calibration Due: 05/25/2011
<b>Network Analyzer</b>	Agilent(E5071B, MY42301382)	Calibration Due: 03/24/2011
<b>Voltmeter</b>	Keithley (2000, SN:1015843)	Calibration Due: 05/25/2011
<b>Signal Generator</b>	Agilent (E8257C, SN:MY43321570)	Calibration Due: 03/24/2011
<b>Amplifier</b>	Mini-Circuits (ZHL-42, SN:110405)	Calibration Due: 07/29/2011
<b>Power Meter</b>	Agilent (E4416A, SN:QB41292714)	Calibration Due: 03/24/2011
<b>Probe</b>	Antennessa (SN:SN_1109_EP_100)	Calibration Due: 05/05/2011
<b>DIPOLE 835</b>	Antennessa (DIP132,SN 48/05)	Calibration Due: 02/10/2011
<b>Phantom</b>	Antennessa (SN:SN41_05_SAM29)	Calibration Due: N/A
<b>Liquid</b>	Antennessa	Calibration Due: N/A
<b>Measurement SW</b>	OPEN SAR V2.1	Calibration Due: N/A



## C. SAR Measurement Results

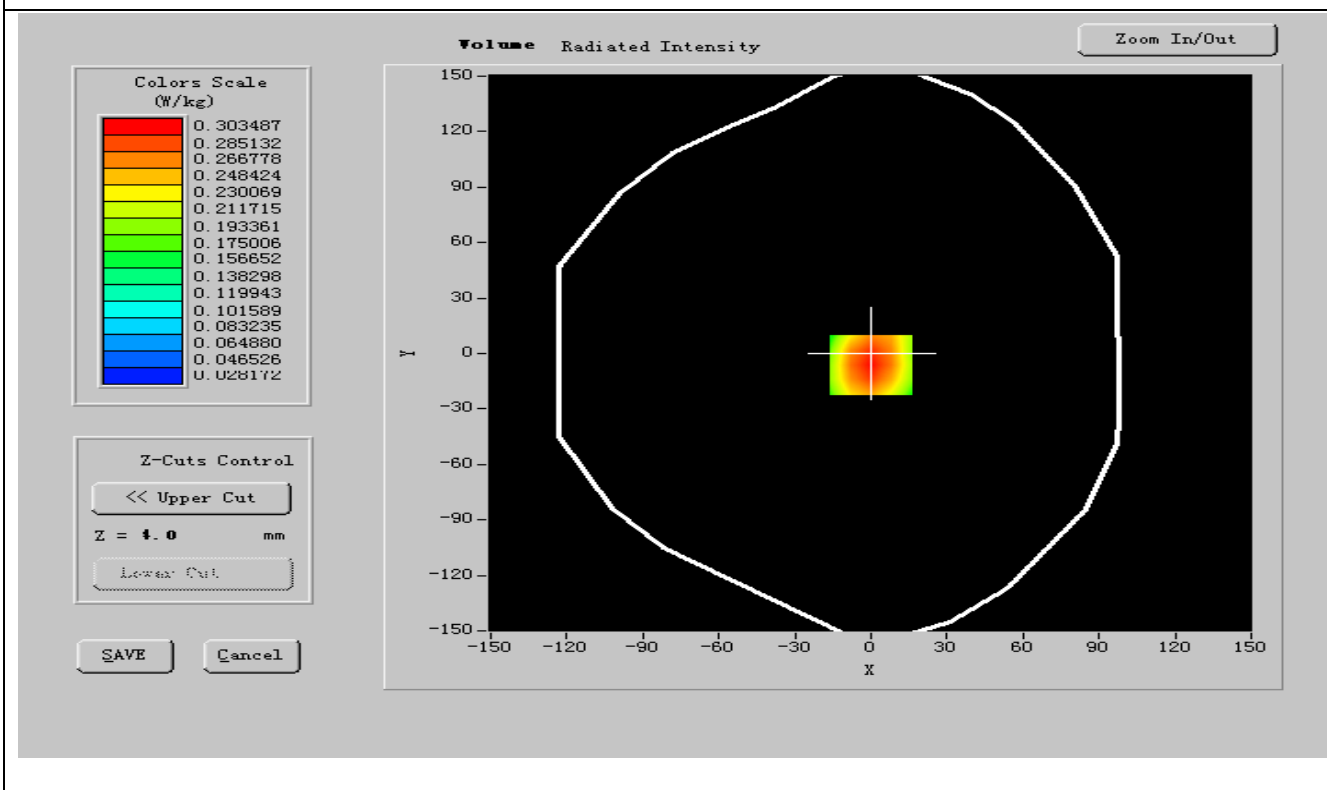
Frequency (MHz)	848.599976
Relative permittivity (real part)	55.576000
Relative permittivity (imaginary part)	21.726601
Conductivity (S/m)	0.974288
Variation (%)	-0.220000
Ambient Temperature:	21 °C
Liquid Temperature:	20 °C
ConvF:	20.00, 19.88, 27.77
Crest factor:	1:8

### SURFACE SAR





## VOLUME SAR



Maximum location: X=-13.00, Y=-3.00

SAR 10g (W/Kg)	0.210546
SAR 1g (W/Kg)	0.331483

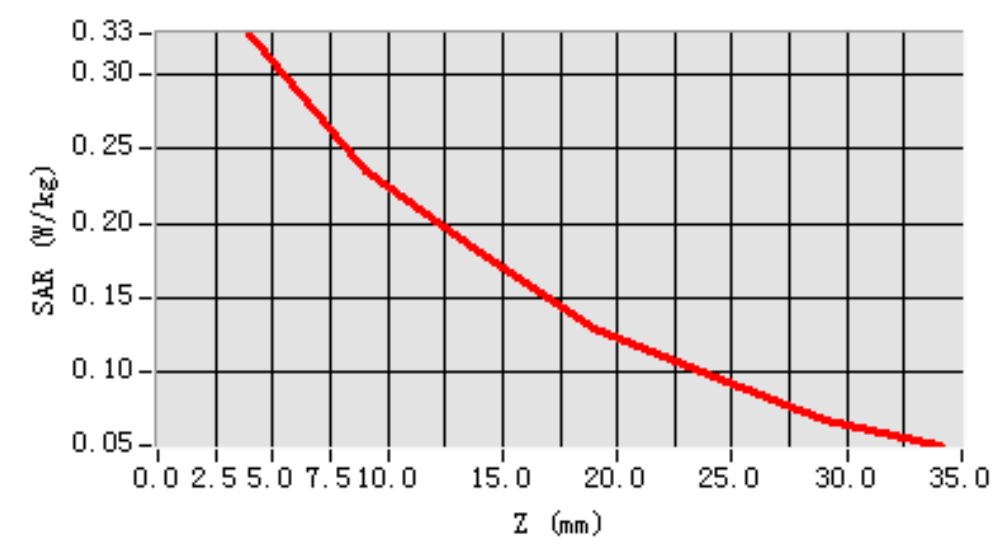
### Z Axis Scan

Z(mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/kg)	0.0000	0.3232	0.1722	0.1494	0.1323	0.0787	0.0651





SAR, Z Axis Scan (X = 0, Y = -6)





## II. 1900MHz Band RESULTS

<u>TYPE</u>	<u>PARAMETERS</u>
<b><u>Phone</u></b>	<u>Measurement 1:</u> Right Head with Cheek device position on Low Channel in GSM1900 mode <u>Measurement 2:</u> Right Head with Cheek device position on Middle Channel in GSM1900 mode <u>Measurement 3:</u> Right Head with Cheek device position on High Channel in GSM1900 mode <u>Measurement 4:</u> Right Head with Tilt device position on Low Channel in GSM1900 mode <u>Measurement 5:</u> Right Head with Tilt device position on Middle Channel in GSM1900 mode <u>Measurement 6:</u> Right Head with Tilt device position on High Channel in GSM1900 mode <u>Measurement 7:</u> Left Head with Cheek device position on Low Channel in GSM1900 mode <u>Measurement 8:</u> Left Head with Cheek device position on Middle Channel in GSM1900 mode <u>Measurement 9:</u> Left Head with Cheek device position on High Channel in GSM1900 mode <u>Measurement 10:</u> Left Head with Tilt device position on Low Channel in GSM1900 mode <u>Measurement 11:</u> Left Head with Tilt device position on Middle Channel in GSM1900 mode <u>Measurement 12:</u> Left Head with Tilt device position on High Channel in GSM1900 mode <u>Measurement 13:</u> FrontSide toward phantom 15mm, Low Channel in GSM1900 mode <u>Measurement 14:</u> FrontSide toward phantom 15mm, Middle Channel in GSM1900 mode <u>Measurement 15:</u> FrontSide toward phantom 15mm, High Channel in GSM1900 mode <u>Measurement 16:</u> BackSide toward phantom 15mm, Low Channel in GSM1900 mode <u>Measurement 17:</u> BackSide toward phantom 15mm, Middle Channel in GSM1900 mode <u>Measurement 18:</u> BackSide toward phantom 15mm, High Channel in GSM1900 mode

**MEASUREMENT 1****Date of measurement: 1/11/2010****Area Scan: 7 x 7 x 1****dx=15mm****dy=15mm****Zoom Scan: 5 x 5 x 7****dx=5mm****dy=5mm****dz=5mm****Z Axis Scan: 1 x 1 x 21****dx=20mm****dy=20mm****dz=5mm****A. Experimental conditions.**

<b>Phantom File</b>	zinf15.txt, Adaptive 2 max
<b>Phantom</b>	Right head
<b>Device Position</b>	Cheek
<b>Band</b>	GSM1900
<b>Channels</b>	Low
<b>Signal</b>	GSM

**B. Instrumentations.**

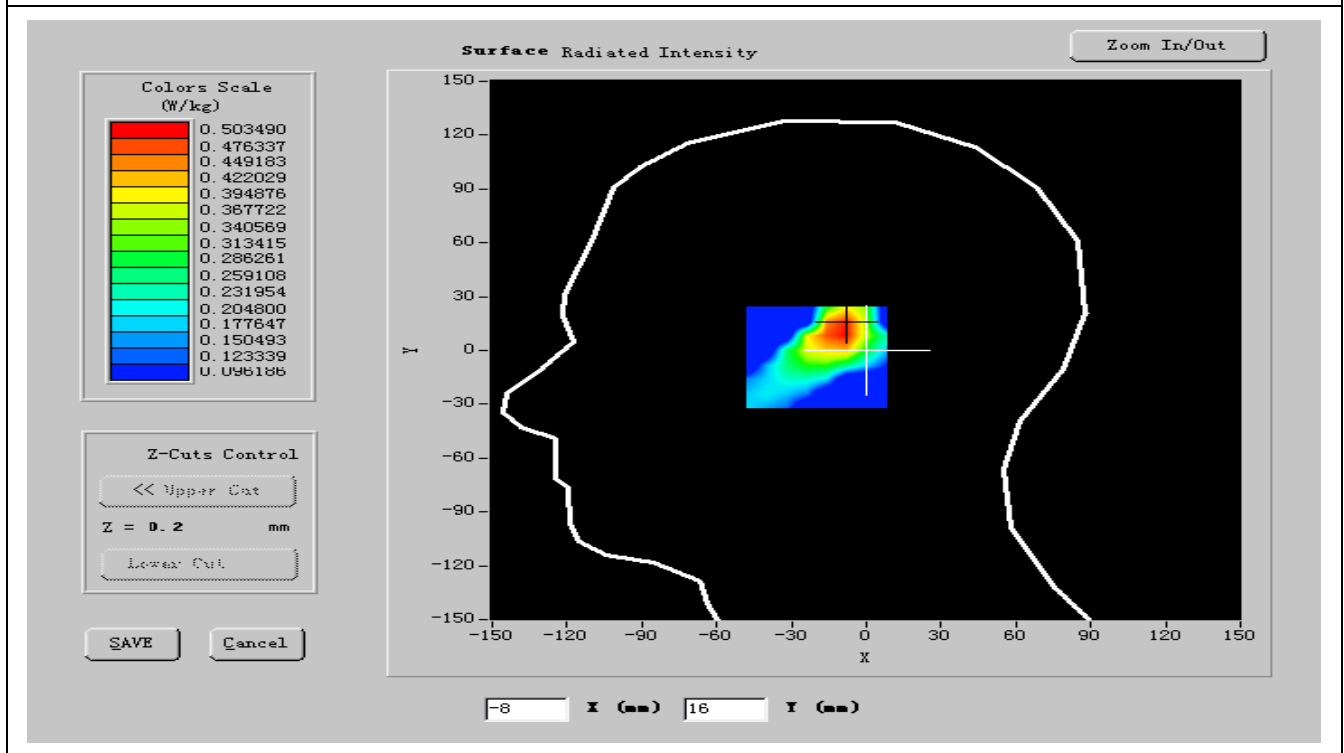
<b>PC</b>	<b>HP (Pentium(R) V3.06GHz, SN:375052-AA1)</b>	<b>Calibration Due: N/A</b>
<b>Wireless Communication Test Set</b>	<b>R&amp;S (CMU200, SN:B23-03291)</b>	<b>Calibration Due: 05/25/2011</b>
<b>Network Analyzer</b>	<b>Agilent(E5071B, MY42301382)</b>	<b>Calibration Due: 03/24/2011</b>
<b>Voltmeter</b>	<b>Keithley (2000, SN:1015843)</b>	<b>Calibration Due: 05/25/2011</b>
<b>Signal Generator</b>	<b>Agilent (E8257C, SN:MY43321570)</b>	<b>Calibration Due: 03/24/2011</b>
<b>Amplifier</b>	<b>Mini-Circuits (ZHL-42, SN:110405)</b>	<b>Calibration Due: 07/29/2011</b>
<b>Power Meter</b>	<b>Agilent (E4416A, SN:QB41292714)</b>	<b>Calibration Due: 03/24/2011</b>
<b>Probe</b>	<b>Antennessa (SN:SN_1109_EP_100)</b>	<b>Calibration Due: 05/05/2011</b>
<b>DIPOLE 1900</b>	<b>Antennessa (DIP136, SN 48/05)</b>	<b>Calibration Due: 02/10/2011</b>
<b>Phantom</b>	<b>Antennessa (SN:SN41_05_SAM29)</b>	<b>Calibration Due: N/A</b>
<b>Liquid</b>	<b>Antennessa</b>	<b>Calibration Due: N/A</b>
<b>Measurement SW</b>	<b>OPEN SAR V2.1</b>	<b>Calibration Due: N/A</b>



## C. SAR Measurement Results

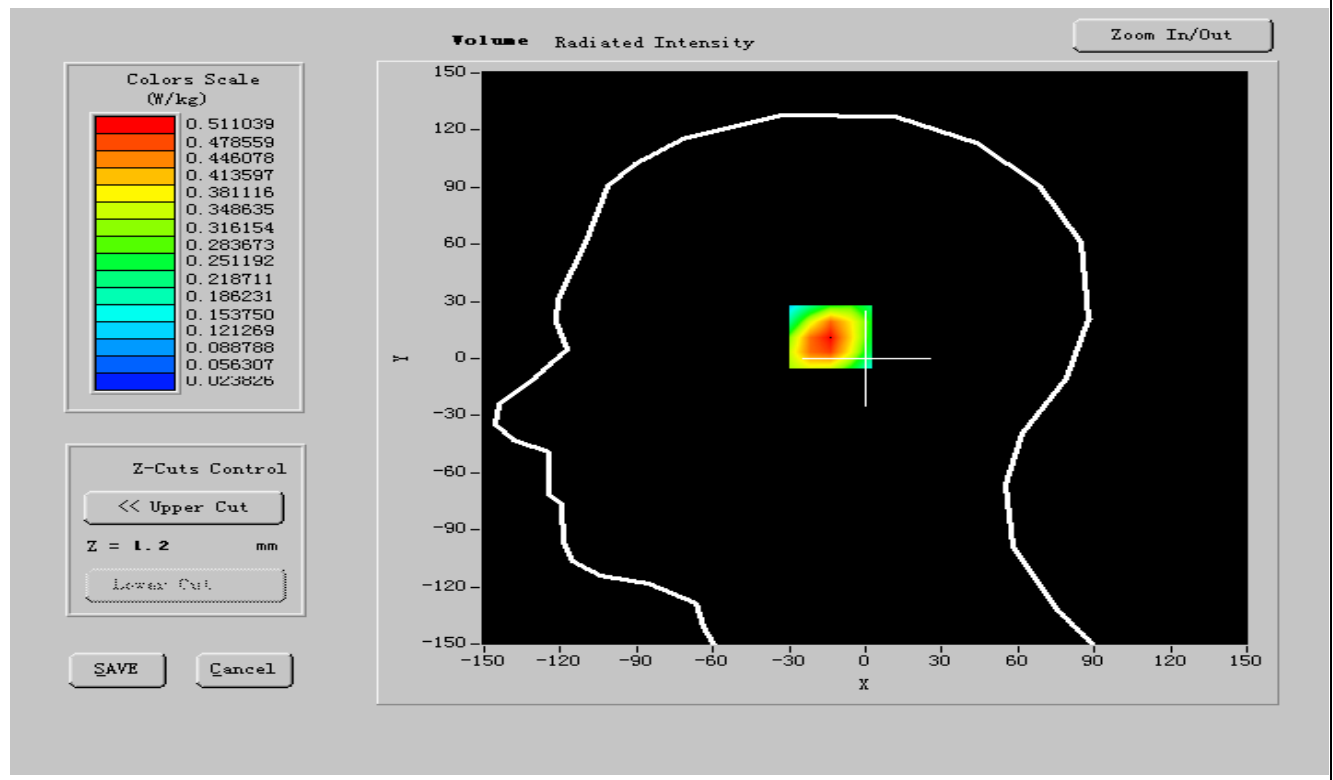
Frequency (MHz)	1850.400024
Relative permittivity (real part)	40.213000
Relative permittivity (imaginary part)	13.584900
Conductivity (S/m)	1.410528
Variation (%)	-1.220000
Ambient Temperature:	21 °C
Liquid Temperature:	20 °C
ConvF:	41.91, 43.15, 56.44
Crest factor:	1:8

### SURFACE SAR





## VOLUME SAR



Maximum location: X=-13.00, Y=-3.00

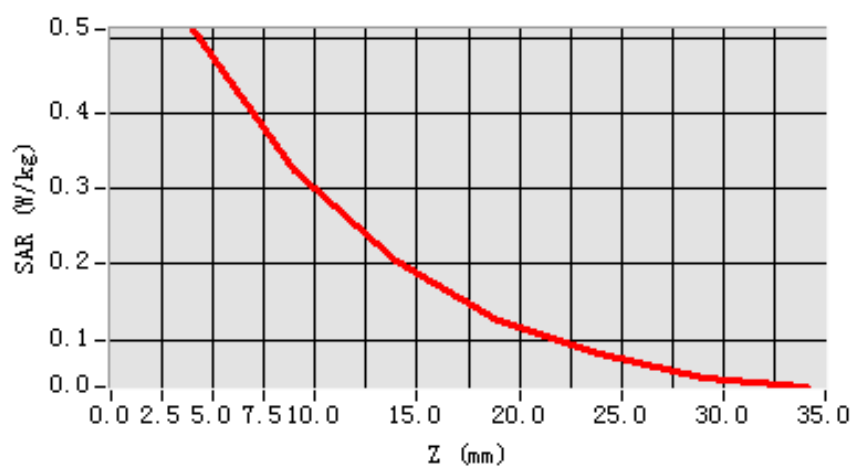
SAR 10g (W/Kg)	0.281648
SAR 1g (W/Kg)	0.476481

### Z Axis Scan

Z(mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/kg)	0.0000	0.4733	0.3122	0.1894	0.1224	0.0687	0.0081



SAR, Z Axis Scan (X = -10, Y = 12)





## MEASUREMENT 2

Date of measurement: 1/11/2010

Area Scan: 7 x 7 x 1

dx=15mm

dy=15mm

Zoom Scan: 5 x 5 x 7

dx=5mm

dy=5mm

dz=5mm

Z Axis Scan: 1 x 1 x 21

dx=20mm

dy=20mm

dz=5mm

### A. Experimental conditions.

Phantom File	zinf15.txt, Adaptive 2 max
Phantom	Right head
Device Position	Cheek
Band	GSM1900
Channels	Middle
Signal	GSM

### B. Instrumentations.

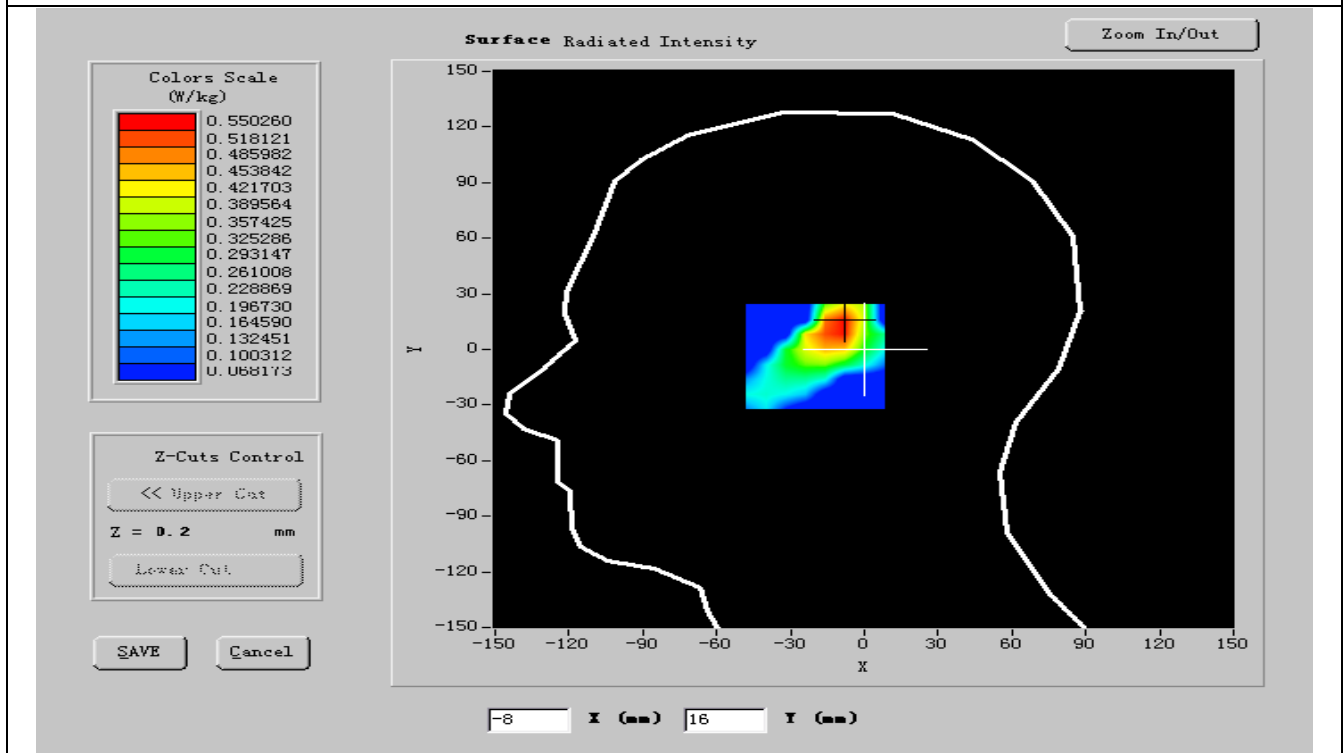
PC	HP (Pentium(R) V3.06GHz, SN:375052-AA1)	Calibration Due: N/A
Wireless Communication Test Set	R&S (CMU200, SN:B23-03291)	Calibration Due: 05/25/2011
Network Analyzer	Agilent(E5071B, MY42301382)	Calibration Due: 03/24/2011
Voltmeter	Keithley (2000, SN:1015843)	Calibration Due: 05/25/2011
Signal Generator	Agilent (E8257C, SN:MY43321570)	Calibration Due: 03/24/2011
Amplifier	Mini-Circuits (ZHL-42, SN:110405)	Calibration Due: 07/29/2011
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibration Due: 03/24/2011
Probe	Antennessa (SN:SN_1109_EP_100)	Calibration Due: 05/05/2011
DIPOLE 1900	Antennessa (DIP136, SN 48/05)	Calibration Due: 02/10/2011
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibration Due: N/A
Liquid	Antennessa	Calibration Due: N/A
Measurement SW	OPEN SAR V2.1	Calibration Due: N/A



## C. SAR Measurement Results

Frequency (MHz)	1880.000000
Relative permittivity (real part)	40.198001
Relative permittivity (imaginary part)	13.813800
Conductivity (S/m)	1.422775
Variation (%)	-0.210000
Ambient Temperature:	21 °C
Liquid Temperature:	20 °C
ConvF:	41.91, 43.15, 56.44
Crest factor:	1:8

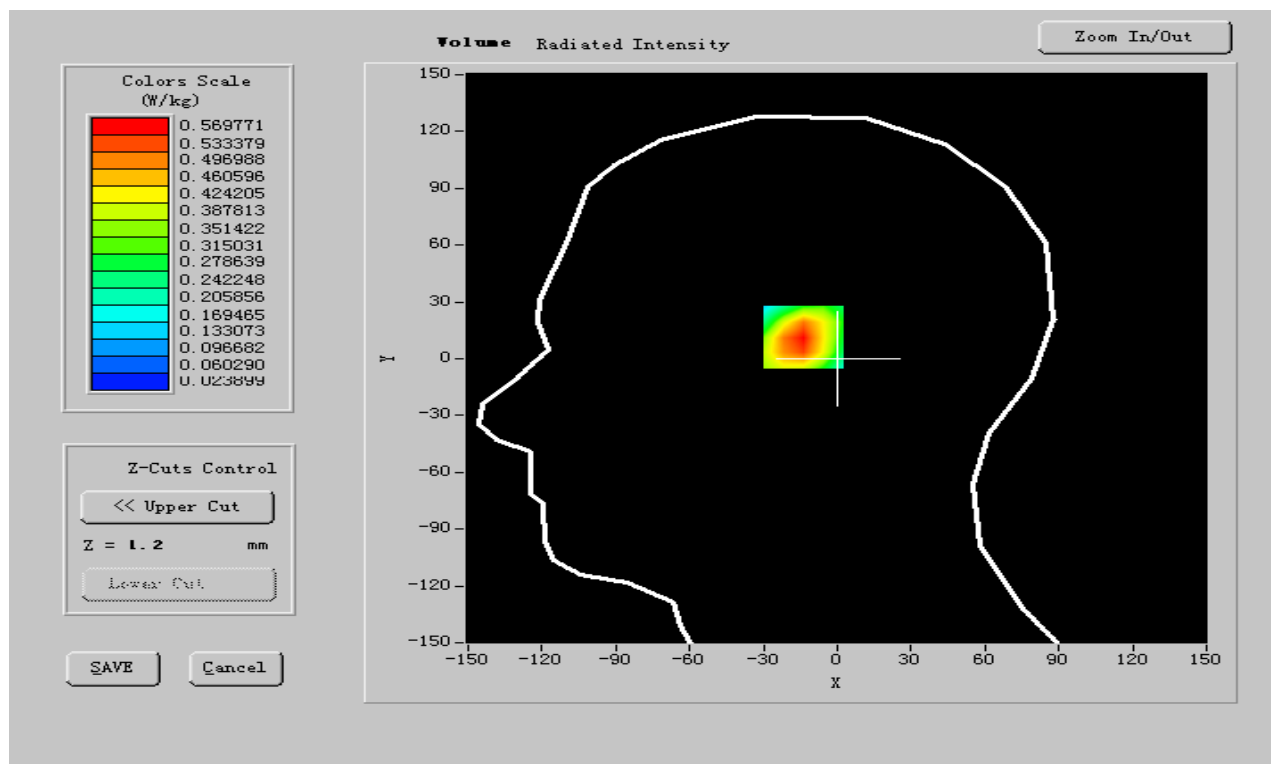
### SURFACE SAR







## VOLUME SAR



Maximum location: X=-13.00, Y=-3.00

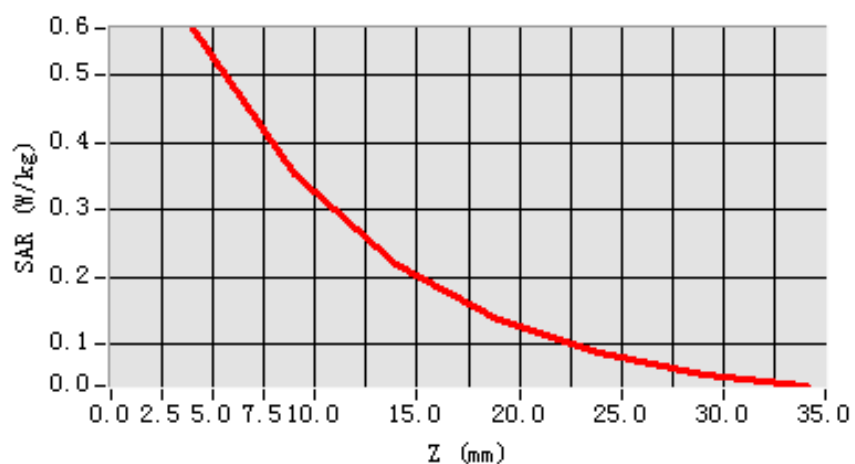
SAR 10g (W/Kg)	0.323046
SAR 1g (W/Kg)	0.525128

### Z Axis Scan

Z(mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/kg)	0.0000	0.5154	0.3322	0.2294	0.1424	0.0789	0.0031



SAR, Z Axis Scan (X = -10, Y = 12)





## MEASUREMENT 3

Date of measurement: 1/11/2010

Area Scan: 7 x 7 x 1

dx=15mm

dy=15mm

Zoom Scan: 5 x 5 x 7

dx=5mm

dy=5mm

dz=5mm

Z Axis Scan: 1 x 1 x 21

dx=20mm

dy=20mm

dz=5mm

### A. Experimental conditions.

Phantom File	zinf15.txt, Adaptive 2 max
Phantom	Right head
Device Position	Cheek
Band	GSM1900
Channels	High
Signal	GSM

### B. Instrumentations.

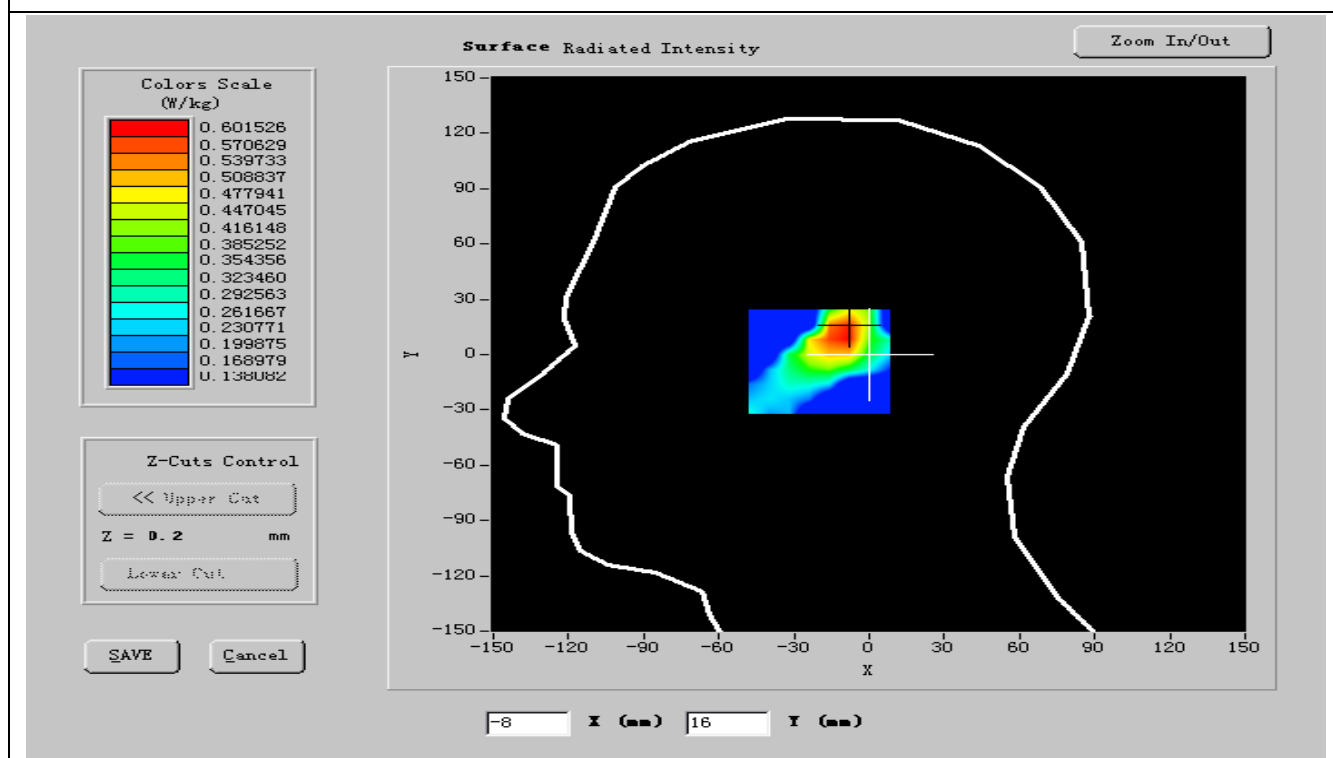
PC	HP (Pentium(R) V3.06GHz, SN:375052-AA1)	Calibration Due: N/A
Wireless Communication Test Set	R&S (CMU200, SN:B23-03291)	Calibration Due: 05/25/2011
Network Analyzer	Agilent(E5071B, MY42301382)	Calibration Due: 03/24/2011
Voltmeter	Keithley (2000, SN:1015843)	Calibration Due: 05/25/2011
Signal Generator	Agilent (E8257C, SN:MY43321570)	Calibration Due: 03/24/2011
Amplifier	Mini-Circuits (ZHL-42, SN:110405)	Calibration Due: 07/29/2011
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibration Due: 03/24/2011
Probe	Antennessa (SN:SN_1109_EP_100)	Calibration Due: 05/05/2011
DIPOLE 1900	Antennessa (DIP136, SN 48/05)	Calibration Due: 02/10/2011
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibration Due: N/A
Liquid	Antennessa	Calibration Due: N/A
Measurement SW	OPEN SAR V2.1	Calibration Due: N/A



## C. SAR Measurement Results

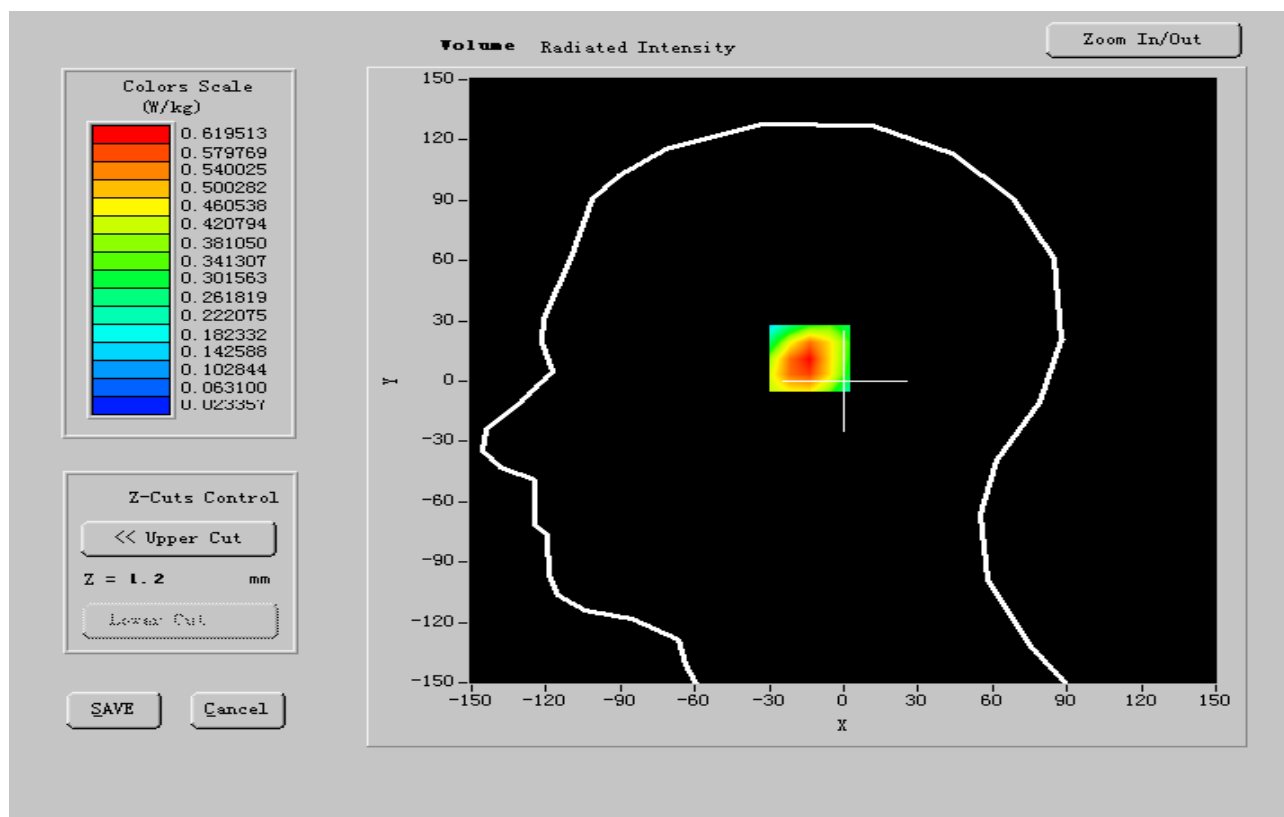
Frequency (MHz)	1909.599976
Relative permittivity (real part)	40.205999
Relative permittivity (imaginary part)	13.669900
Conductivity (S/m)	1.420413
Variation (%)	-0.030000
Ambient Temperature:	21 °C
Liquid Temperature:	20 °C
ConvF:	41.91, 43.15, 56.44
Crest factor:	1:8

### SURFACE SAR





## VOLUME SAR



**Maximum location: X=-13.00, Y=-3.00**

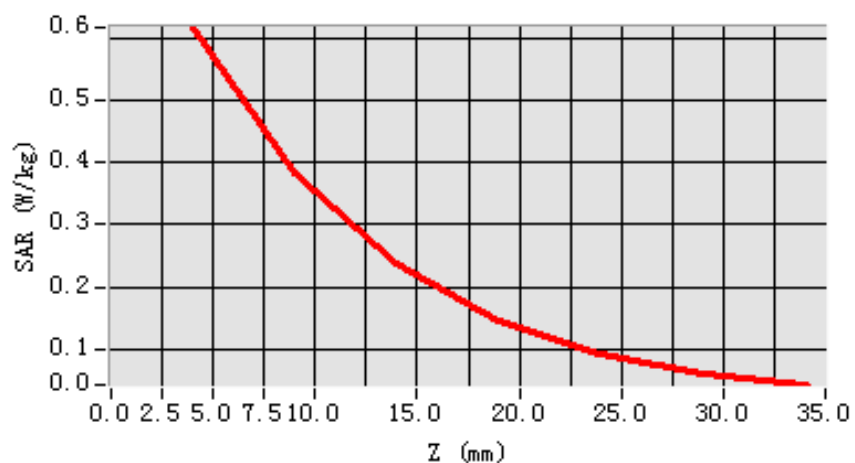
SAR 10g (W/Kg)	0.356971
SAR 1g (W/Kg)	0.579012

### Z Axis Scan

Z(mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/kg)	0.0000	0.5736	0.3422	0.2264	0.1724	0.0889	0.0021



SAR, Z Axis Scan (X = -10, Y = 12)





## MEASUREMENT 4

Date of measurement: 1/11/2010

Area Scan: 7 x 7 x 1

dx=15mm

dy=15mm

Zoom Scan: 5 x 5 x 7

dx=5mm

dy=5mm

dz=5mm

Z Axis Scan: 1 x 1 x 21

dx=20mm

dy=20mm

dz=5mm

### A. Experimental conditions.

Phantom File	zinf15.txt, Adaptive 2 max
Phantom	Right head
Device Position	Tilt
Band	GSM1900
Channels	Low
Signal	GSM

### B. Instrumentations.

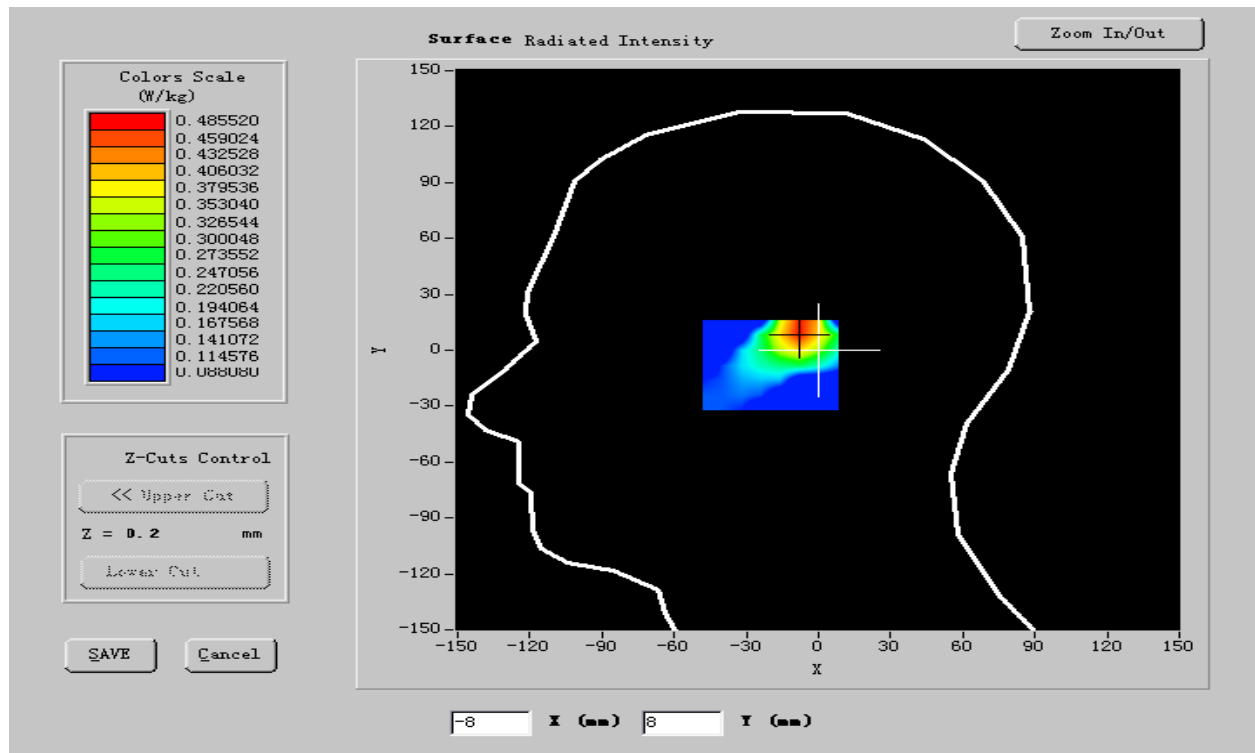
PC	HP (Pentium(R) V3.06GHz, SN:375052-AA1)	Calibration Due: N/A
Wireless Communication Test Set	R&S (CMU200, SN:B23-03291)	Calibration Due: 05/25/2011
Network Analyzer	Agilent(E5071B, MY42301382)	Calibration Due: 03/24/2011
Voltmeter	Keithley (2000, SN:1015843)	Calibration Due: 05/25/2011
Signal Generator	Agilent (E8257C, SN:MY43321570)	Calibration Due: 03/24/2011
Amplifier	Mini-Circuits (ZHL-42, SN:110405)	Calibration Due: 07/29/2011
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibration Due: 03/24/2011
Probe	Antennessa (SN:SN_1109_EP_100)	Calibration Due: 05/05/2011
DIPOLE 1900	Antennessa (DIP136, SN 48/05)	Calibration Due: 02/10/2011
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibration Due: N/A
Liquid	Antennessa	Calibration Due: N/A
Measurement SW	OPEN SAR V2.1	Calibration Due: N/A



### C. SAR Measurement Results

Frequency (MHz)	1850.400024
Relative permittivity (real part)	40.213000
Relative permittivity (imaginary part)	13.584900
Conductivity (S/m)	1.426657
Variation (%)	-1.400000
Ambient Temperature:	21 °C
Liquid Temperature:	20 °C
ConvF:	41.91, 43.15, 56.44
Crest factor:	1:8

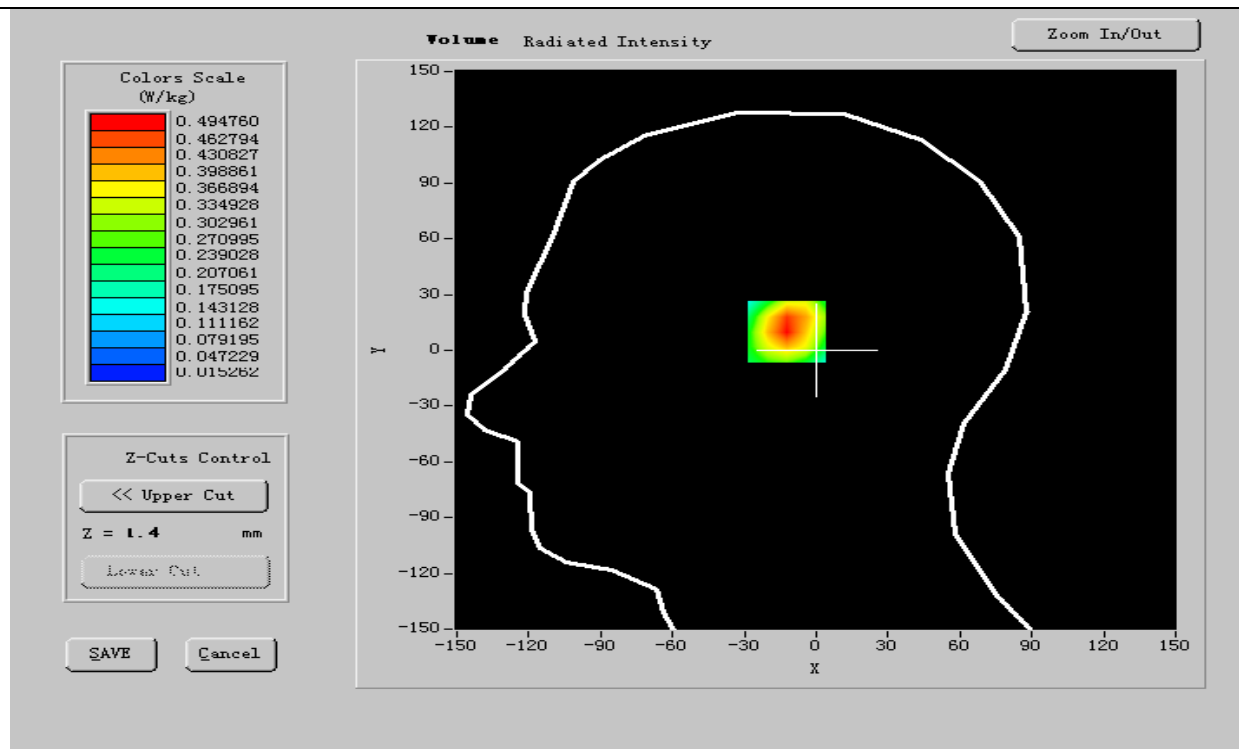
#### SURFACE SAR







## VOLUME SAR



**Maximum location: X=-13.00, Y=-3.00**

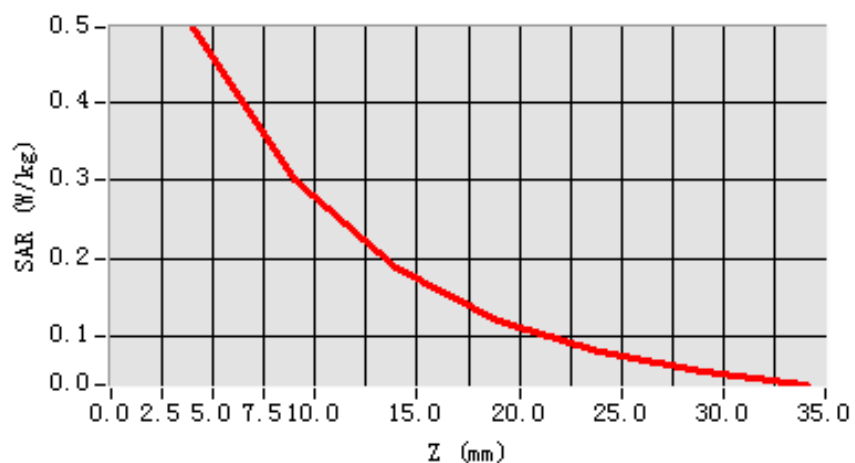
SAR 10g (W/Kg)	0.246310
SAR 1g (W/Kg)	0.452181

### Z Axis Scan

Z(mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/kg)	0.0000	0.4563	0.2922	0.1864	0.1124	0.0787	0.0011



SAR, Z Axis Scan (X = -8, Y = 10)





## MEASUREMENT 5

Date of measurement: 1/11/2010

Area Scan: 7 x 7 x 1

dx=15mm

dy=15mm

Zoom Scan: 5 x 5 x 7

dx=5mm

dy=5mm

dz=5mm

Z Axis Scan: 1 x 1 x 21

dx=20mm

dy=20mm

dz=5mm

### A. Experimental conditions.

Phantom File	zinf15.txt, Adaptive 2 max
Phantom	Right head
Device Position	Tilt
Band	GSM1900
Channels	Middle
Signal	GSM

### B. Instrumentations.

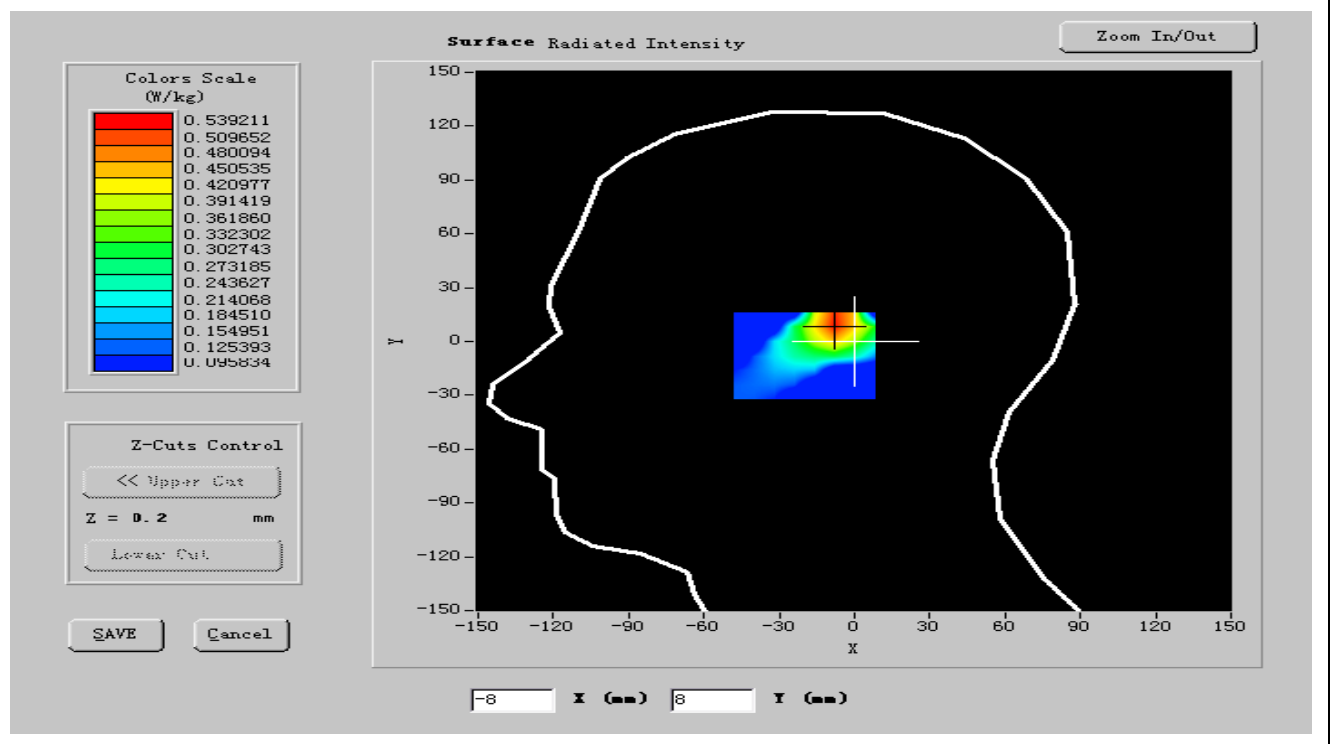
PC	HP (Pentium(R) V3.06GHz, SN:375052-AA1)	Calibration Due: N/A
Wireless Communication Test Set	R&S (CMU200, SN:B23-03291)	Calibration Due: 05/25/2011
Network Analyzer	Agilent(E5071B, MY42301382)	Calibration Due: 03/24/2011
Voltmeter	Keithley (2000, SN:1015843)	Calibration Due: 05/25/2011
Signal Generator	Agilent (E8257C, SN:MY43321570)	Calibration Due: 03/24/2011
Amplifier	Mini-Circuits (ZHL-42, SN:110405)	Calibration Due: 07/29/2011
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibration Due: 03/24/2011
Probe	Antennessa (SN:SN_1109_EP_100)	Calibration Due: 05/05/2011
DIPOLE 1900	Antennessa (DIP136, SN 48/05)	Calibration Due: 02/10/2011
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibration Due: N/A
Liquid	Antennessa	Calibration Due: N/A
Measurement SW	OPEN SAR V2.1	Calibration Due: N/A



## C. SAR Measurement Results

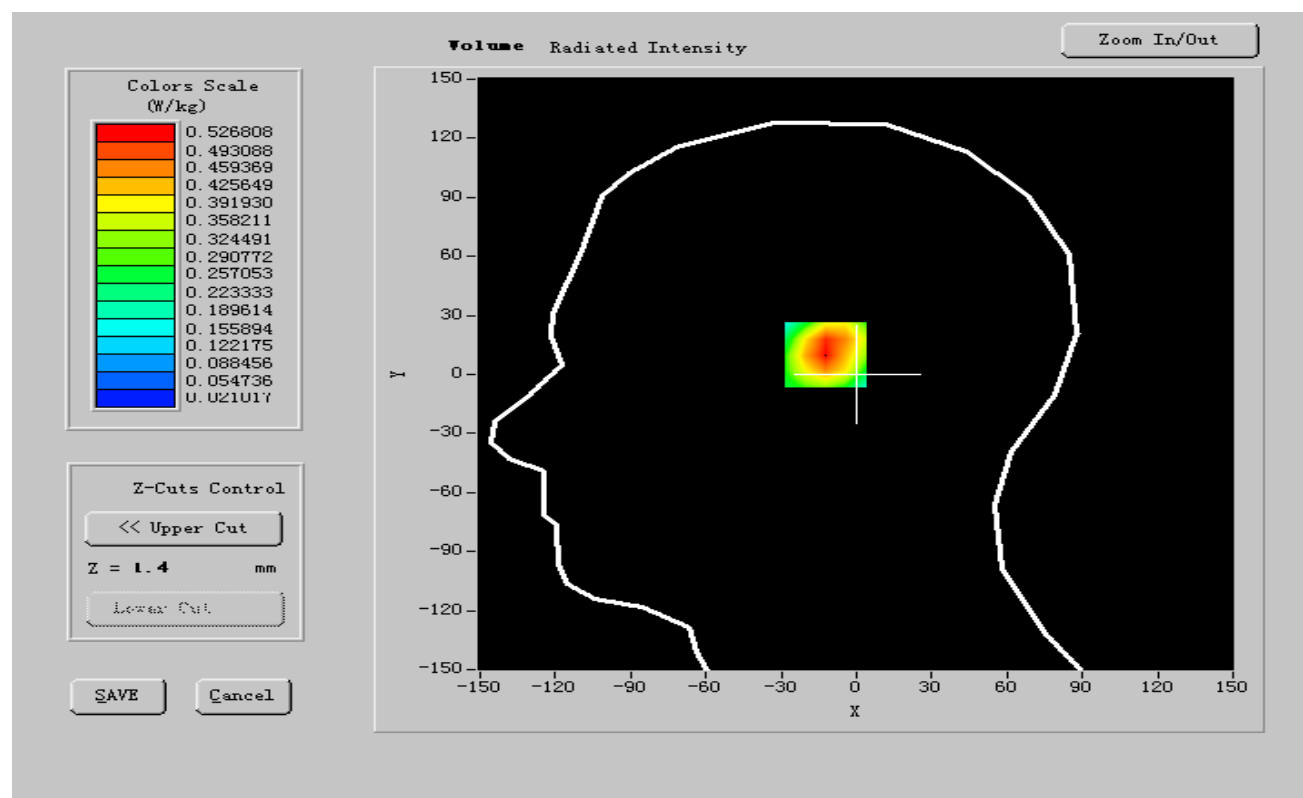
Frequency (MHz)	1880.000000
Relative permittivity (real part)	40.193001
Relative permittivity (imaginary part)	13.813800
Conductivity (S/m)	1.422173
Variation (%)	-0.420000
Ambient Temperature:	21 °C
Liquid Temperature:	20 °C
ConvF:	41.91, 43.15, 56.44
Crest factor:	1:8

### SURFACE SAR





## VOLUME SAR



**Maximum location: X=-13.00, Y=-3.00**

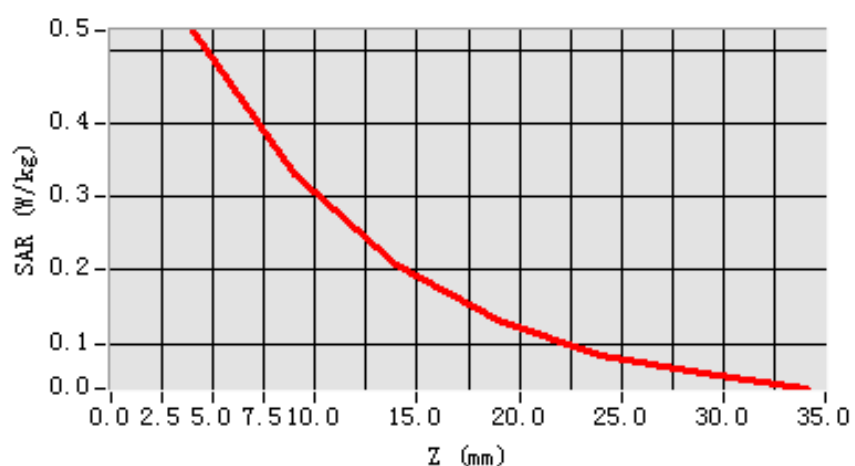
SAR 10g (W/Kg)	0.290573
SAR 1g (W/Kg)	0.481167

### Z Axis Scan

Z(mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/kg)	0.0000	0.4818	0.3622	0.2064	0.1324	0.0887	0.0411



SAR, Z Axis Scan (X = -8, Y = 10)





## MEASUREMENT 6

**Date of measurement: 1/11/2010****Area Scan: 7 x 7 x 1****dx=15mm****dy=15mm****Zoom Scan: 5 x 5 x 7****dx=5mm****dy=5mm****dz=5mm****Z Axis Scan: 1 x 1 x 21****dx=20mm****dy=20mm****dz=5mm**

### A. Experimental conditions.

<b>Phantom File</b>	zinf15.txt, Adaptive 2 max
<b>Phantom</b>	Right head
<b>Device Position</b>	Tilt
<b>Band</b>	GSM1900
<b>Channels</b>	High
<b>Signal</b>	GSM

### B. Instrumentations.

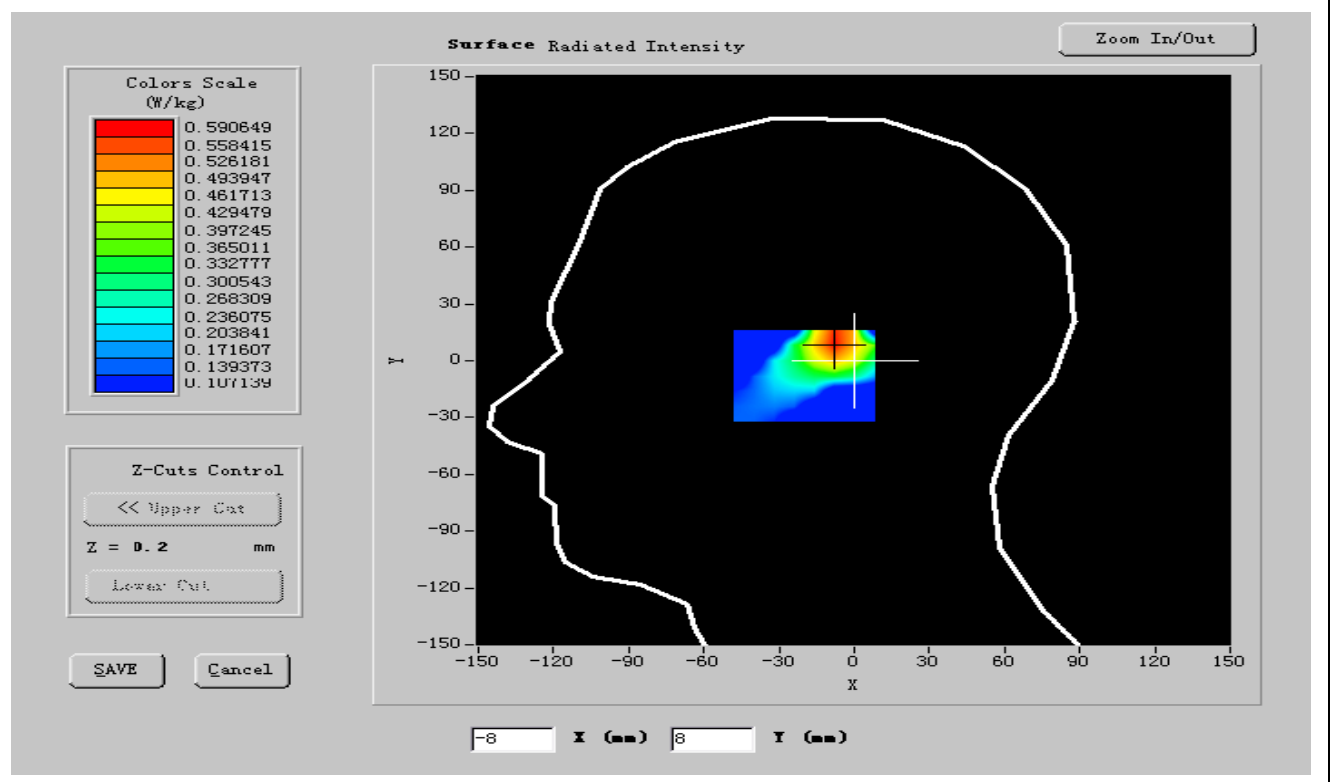
<b>PC</b>	HP (Pentium(R) V3.06GHz, SN:375052-AA1)	Calibration Due: N/A
<b>Wireless Communication Test Set</b>	R&S (CMU200, SN:B23-03291)	Calibration Due: 05/25/2011
<b>Network Analyzer</b>	Agilent(E5071B, MY42301382)	Calibration Due: 03/24/2011
<b>Voltmeter</b>	Keithley (2000, SN:1015843)	Calibration Due: 05/25/2011
<b>Signal Generator</b>	Agilent (E8257C, SN:MY43321570)	Calibration Due: 03/24/2011
<b>Amplifier</b>	Mini-Circuits (ZHL-42, SN:110405)	Calibration Due: 07/29/2011
<b>Power Meter</b>	Agilent (E4416A, SN:QB41292714)	Calibration Due: 03/24/2011
<b>Probe</b>	Antennessa (SN:SN_1109_EP_100)	Calibration Due: 05/05/2011
<b>DIPOLE 1900</b>	Antennessa (DIPI36, SN 48/05)	Calibration Due: 02/10/2011
<b>Phantom</b>	Antennessa (SN:SN41_05_SAM29)	Calibration Due: N/A
<b>Liquid</b>	Antennessa	Calibration Due: N/A
<b>Measurement SW</b>	OPEN SAR V2.1	Calibration Due: N/A



## C. SAR Measurement Results

Frequency (MHz)	1909.599976
Relative permittivity (real part)	40.205999
Relative permittivity (imaginary part)	13.669900
Conductivity (S/m)	1.400224
Variation (%)	-1.500000
Ambient Temperature:	21 °C
Liquid Temperature:	20 °C
ConvF:	41.91, 43.15, 56.44
Crest factor:	1:8

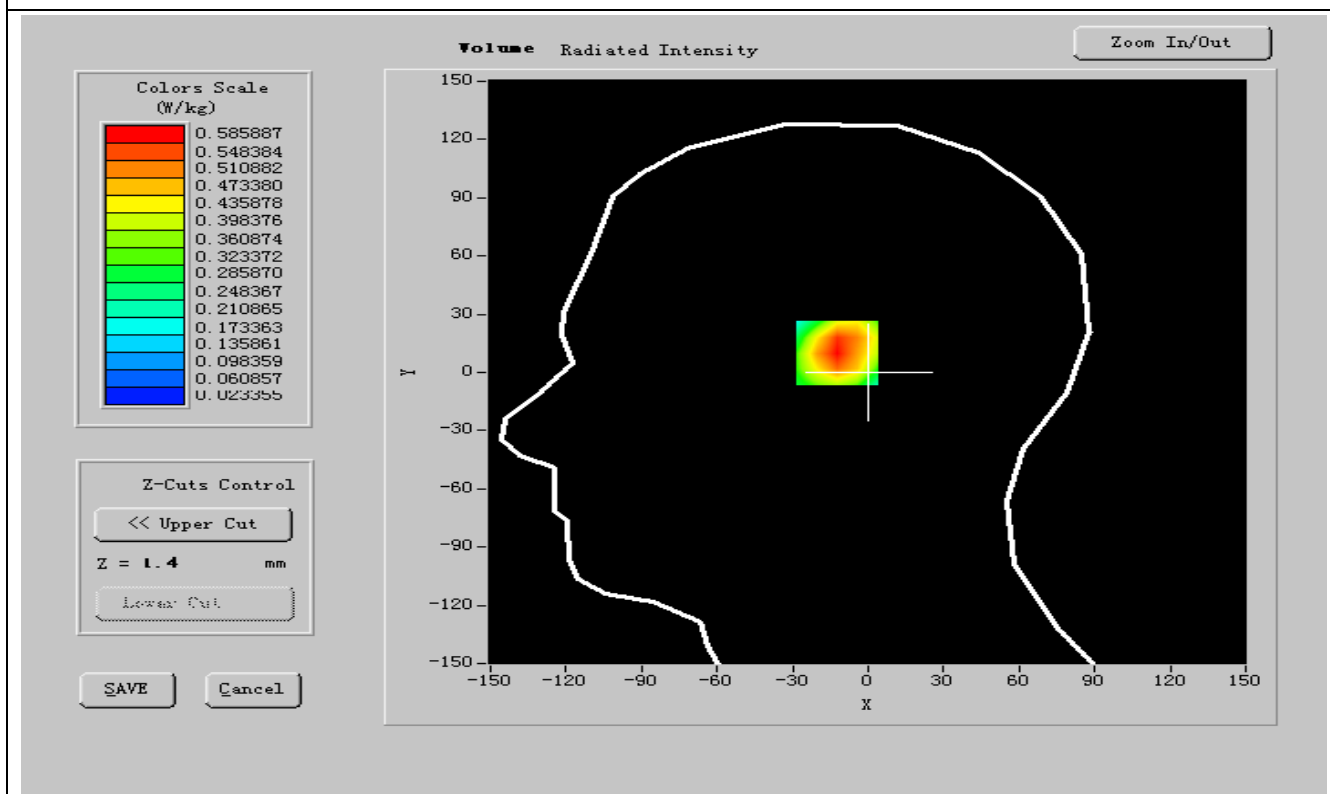
### SURFACE SAR







## VOLUME SAR



**Maximum location: X=-13.00, Y=-3.00**

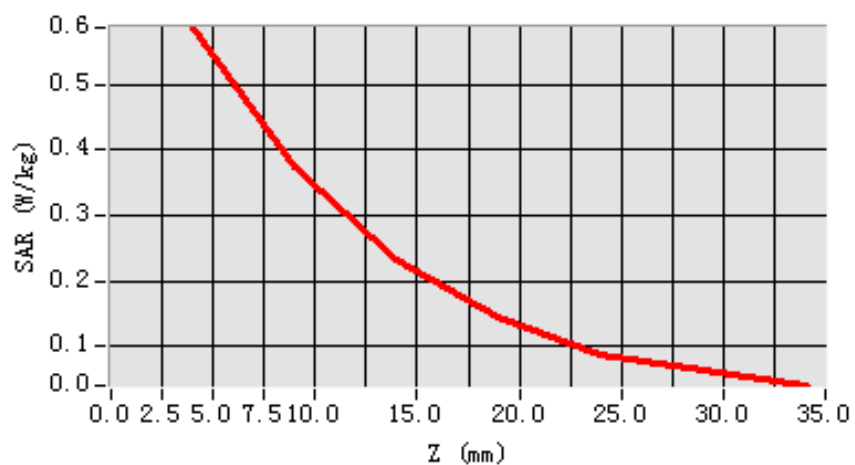
SAR 10g (W/Kg)	0.301647
SAR 1g (W/Kg)	0.530234

### Z Axis Scan

Z(mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/kg)	0.0000	0.5359	0.3622	0.2064	0.1324	0.0864	0.0432



SAR, Z Axis Scan (X = -8, Y = 10)



**MEASUREMENT 7****Date of measurement: 1/11/2010****Area Scan: 7 x 7 x 1****dx=15mm****dy=15mm****Zoom Scan: 5 x 5 x 7****dx=5mm****dy=5mm****dz=5mm****Z Axis Scan: 1 x 1 x 21****dx=20mm****dy=20mm****dz=5mm****A. Experimental conditions.**

<b>Phantom File</b>	zinf15.txt, Adaptive 2 max
<b>Phantom</b>	Left head
<b>Device Position</b>	Cheek
<b>Band</b>	GSM1900
<b>Channels</b>	Low
<b>Signal</b>	GSM

**B. Instrumentations.**

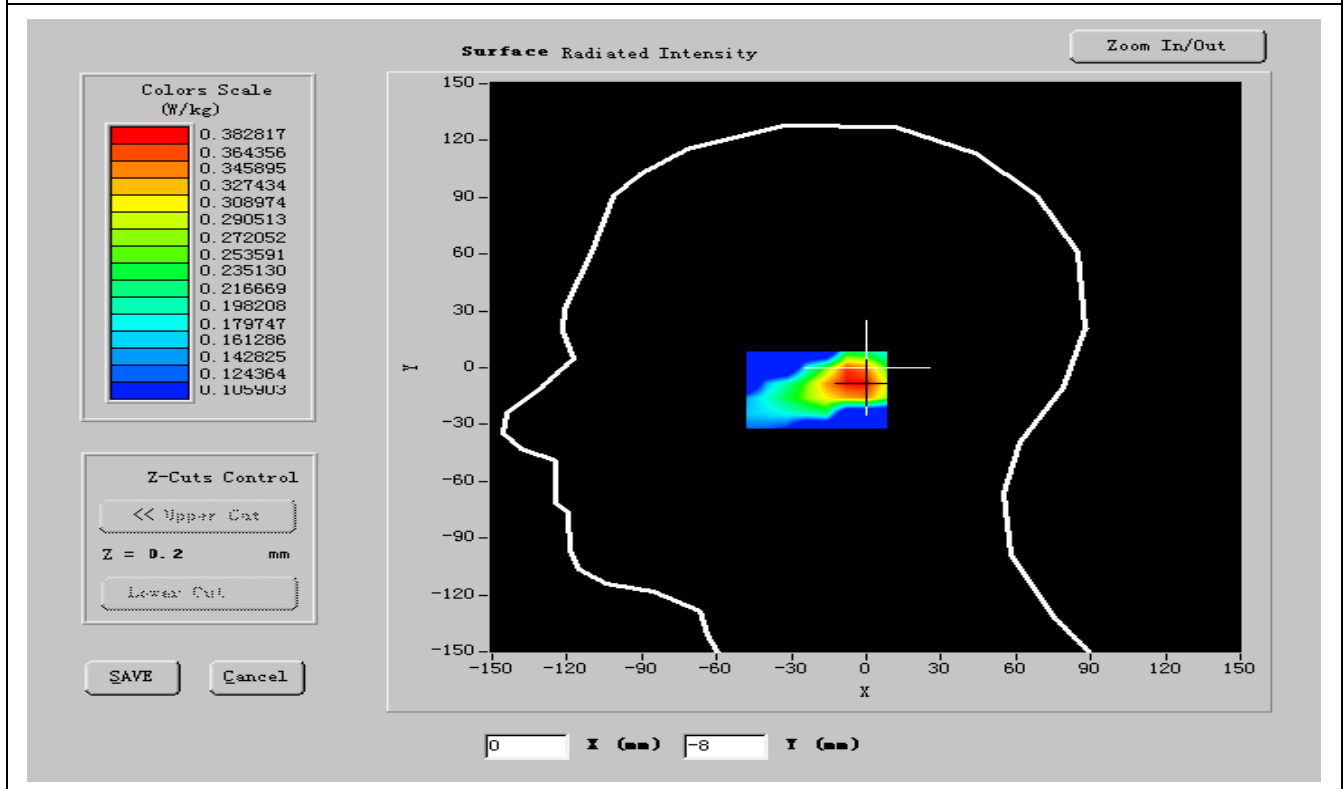
<b>PC</b>	<b>HP (Pentium(R) V3.06GHz, SN:375052-AA1)</b>	<b>Calibration Due: N/A</b>
<b>Wireless Communication Test Set</b>	<b>R&amp;S (CMU200, SN:B23-03291)</b>	<b>Calibration Due: 05/25/2011</b>
<b>Network Analyzer</b>	<b>Agilent(E5071B, MY42301382)</b>	<b>Calibration Due: 03/24/2011</b>
<b>Voltmeter</b>	<b>Keithley (2000, SN:1015843)</b>	<b>Calibration Due: 05/25/2011</b>
<b>Signal Generator</b>	<b>Agilent (E8257C, SN:MY43321570)</b>	<b>Calibration Due: 03/24/2011</b>
<b>Amplifier</b>	<b>Mini-Circuits (ZHL-42, SN:110405)</b>	<b>Calibration Due: 07/29/2011</b>
<b>Power Meter</b>	<b>Agilent (E4416A, SN:QB41292714)</b>	<b>Calibration Due: 03/24/2011</b>
<b>Probe</b>	<b>Antennessa (SN:SN_1109_EP_100)</b>	<b>Calibration Due: 05/05/2011</b>
<b>DIPOLE 1900</b>	<b>Antennessa (DIP136, SN 48/05)</b>	<b>Calibration Due: 02/10/2011</b>
<b>Phantom</b>	<b>Antennessa (SN:SN41_05_SAM29)</b>	<b>Calibration Due: N/A</b>
<b>Liquid</b>	<b>Antennessa</b>	<b>Calibration Due: N/A</b>
<b>Measurement SW</b>	<b>OPEN SAR V2.1</b>	<b>Calibration Due: N/A</b>



## C. SAR Measurement Results

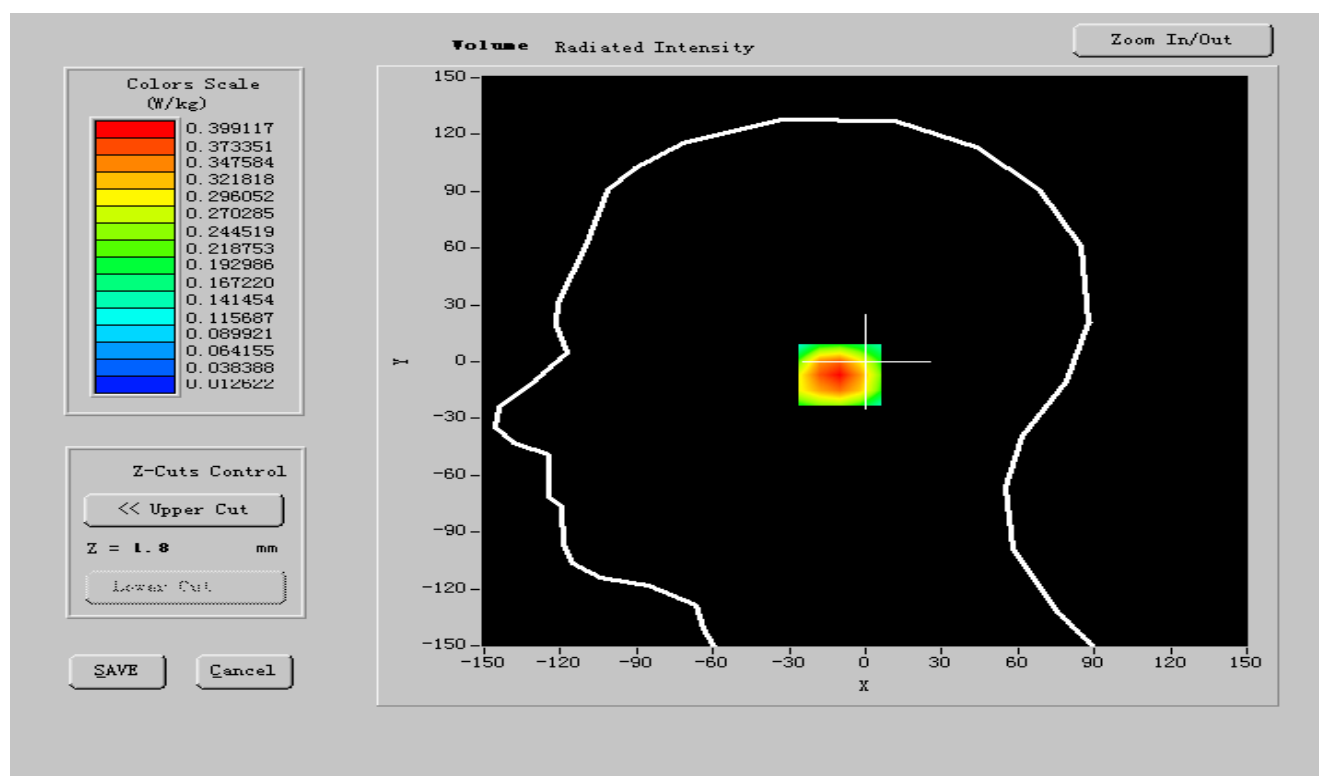
Frequency (MHz)	1850.400024
Relative permittivity (real part)	40.313000
Relative permittivity (imaginary part)	13.584900
Conductivity (S/m)	1.416528
Variation (%)	0.400000
Ambient Temperature:	21 °C
Liquid Temperature:	20 °C
ConvF:	41.91, 43.15, 56.44
Crest factor:	1:8

### SURFACE SAR





## VOLUME SAR



**Maximum location: X=-13.00, Y=-3.00**

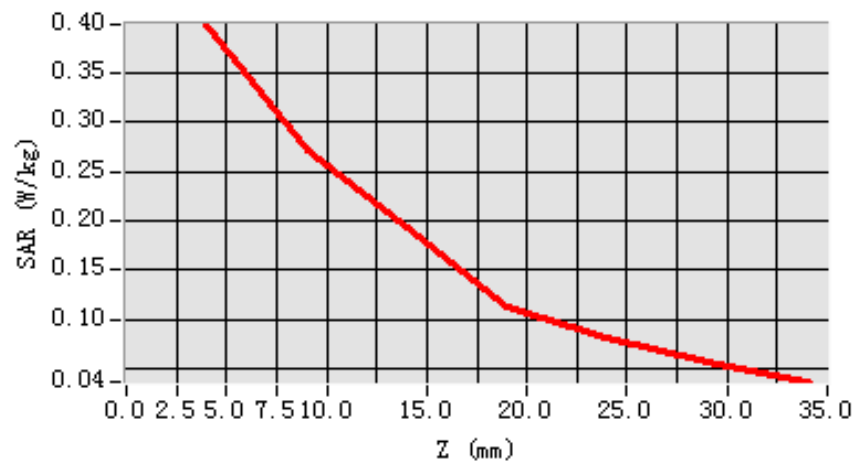
SAR 10g (W/Kg)	0.234679
SAR 1g (W/Kg)	0.368562

### Z Axis Scan

Z(mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/kg)	0.0000	0.3610	0.2622	0.1764	0.1524	0.0764	0.0476



SAR, Z Axis Scan (X = -3, Y = -7)



**MEASUREMENT 8****Date of measurement: 1/11/2010****Area Scan: 7 x 7 x 1****dx=15mm****dy=15mm****Zoom Scan: 5 x 5 x 7****dx=5mm****dy=5mm****dz=5mm****Z Axis Scan: 1 x 1 x 21****dx=20mm****dy=20mm****dz=5mm****A. Experimental conditions.**

<b>Phantom File</b>	zinf15.txt, Adaptive 2 max
<b>Phantom</b>	Left head
<b>Device Position</b>	Cheek
<b>Band</b>	GSM1900
<b>Channels</b>	Middle
<b>Signal</b>	GSM

**B. Instrumentations.**

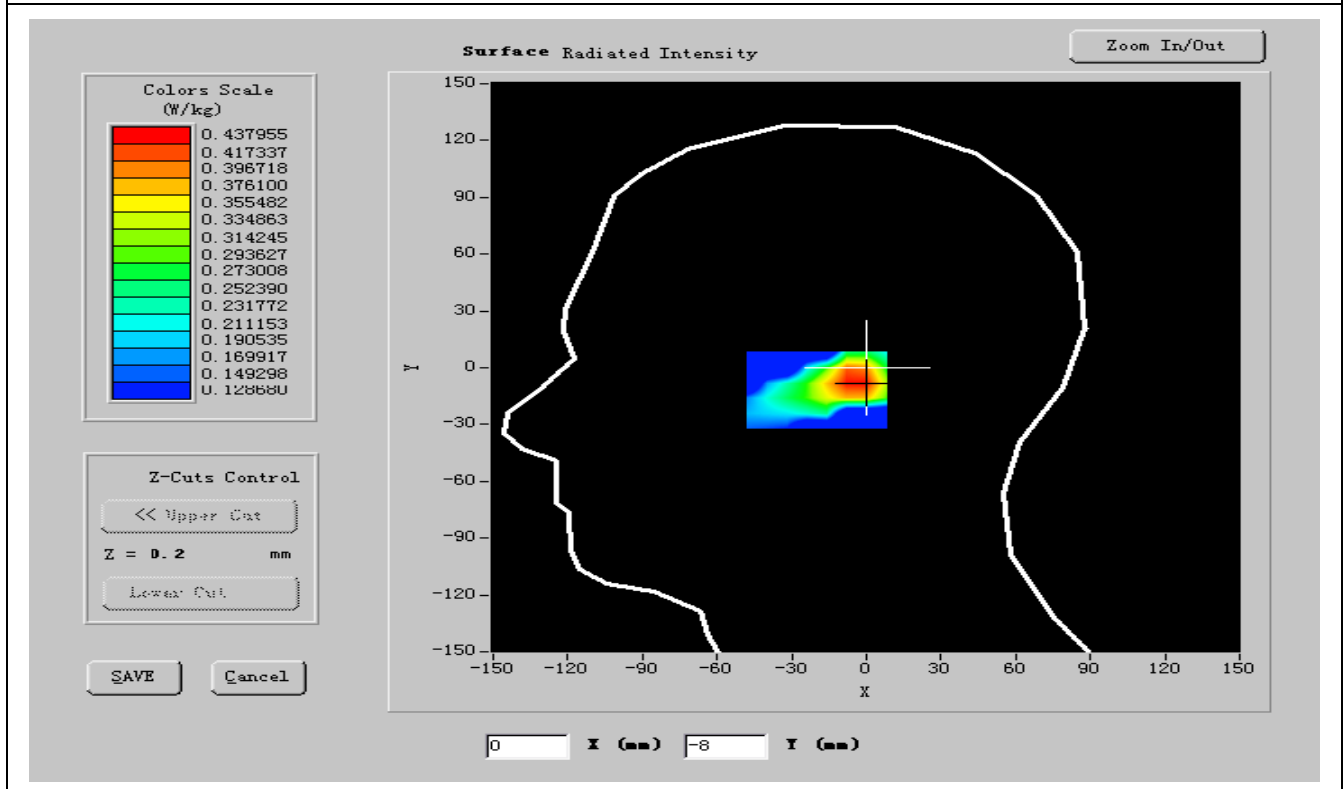
<b>PC</b>	<b>HP (Pentium(R) V3.06GHz, SN:375052-AA1)</b>	<b>Calibration Due: N/A</b>
<b>Wireless Communication Test Set</b>	<b>R&amp;S (CMU200, SN:B23-03291)</b>	<b>Calibration Due: 05/25/2011</b>
<b>Network Analyzer</b>	<b>Agilent(E5071B, MY42301382)</b>	<b>Calibration Due: 03/24/2011</b>
<b>Voltmeter</b>	<b>Keithley (2000, SN:1015843)</b>	<b>Calibration Due: 05/25/2011</b>
<b>Signal Generator</b>	<b>Agilent (E8257C, SN:MY43321570)</b>	<b>Calibration Due: 03/24/2011</b>
<b>Amplifier</b>	<b>Mini-Circuits (ZHL-42, SN:110405)</b>	<b>Calibration Due: 07/29/2011</b>
<b>Power Meter</b>	<b>Agilent (E4416A, SN:QB41292714)</b>	<b>Calibration Due: 03/24/2011</b>
<b>Probe</b>	<b>Antennessa (SN:SN_1109_EP_100)</b>	<b>Calibration Due: 05/05/2011</b>
<b>DIPOLE 1900</b>	<b>Antennessa (DIP136, SN 48/05)</b>	<b>Calibration Due: 02/10/2011</b>
<b>Phantom</b>	<b>Antennessa (SN:SN41_05_SAM29)</b>	<b>Calibration Due: N/A</b>
<b>Liquid</b>	<b>Antennessa</b>	<b>Calibration Due: N/A</b>
<b>Measurement SW</b>	<b>OPEN SAR V2.1</b>	<b>Calibration Due: N/A</b>



## C. SAR Measurement Results

Frequency (MHz)	1880.000000
Relative permittivity (real part)	40.193001
Relative permittivity (imaginary part)	13.813800
Conductivity (S/m)	1.412324
Variation (%)	1.300000
Ambient Temperature:	21 °C
Liquid Temperature:	20 °C
ConvF:	41.91, 43.15, 56.44
Crest factor:	1:8

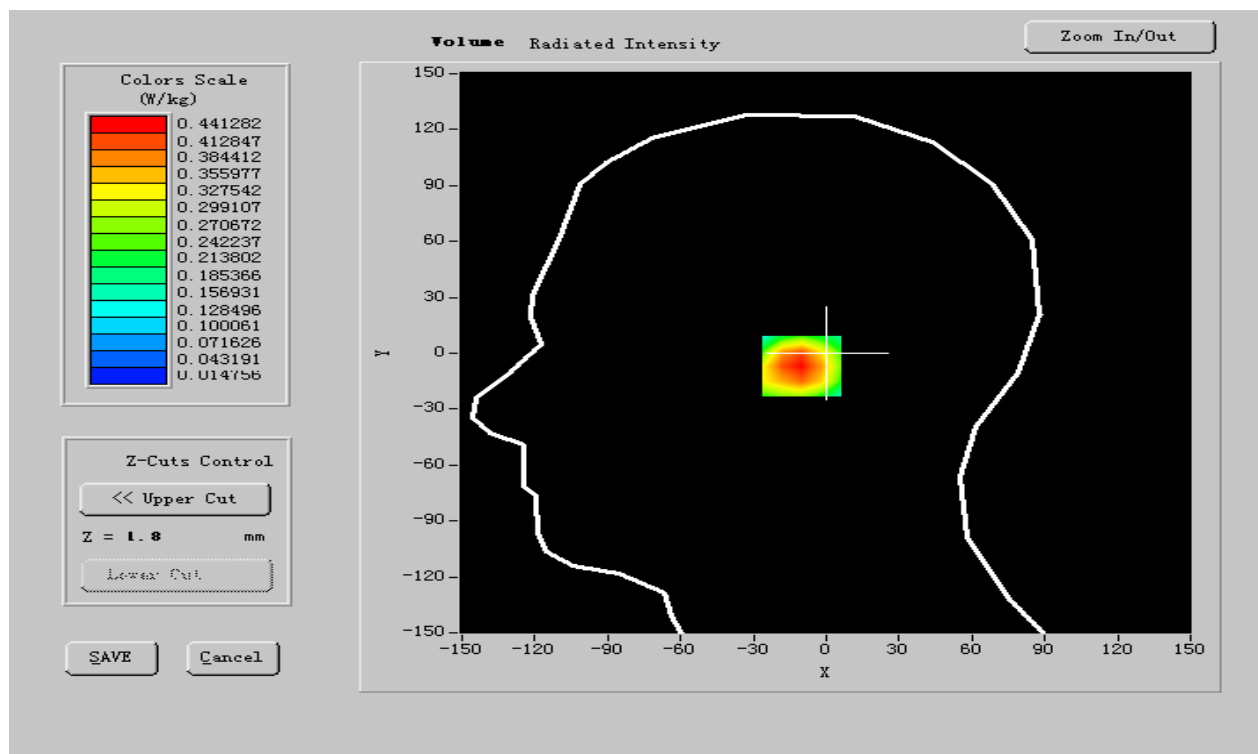
### SURFACE SAR







## VOLUME SAR



Maximum location: X=-13.00, Y=-3.00

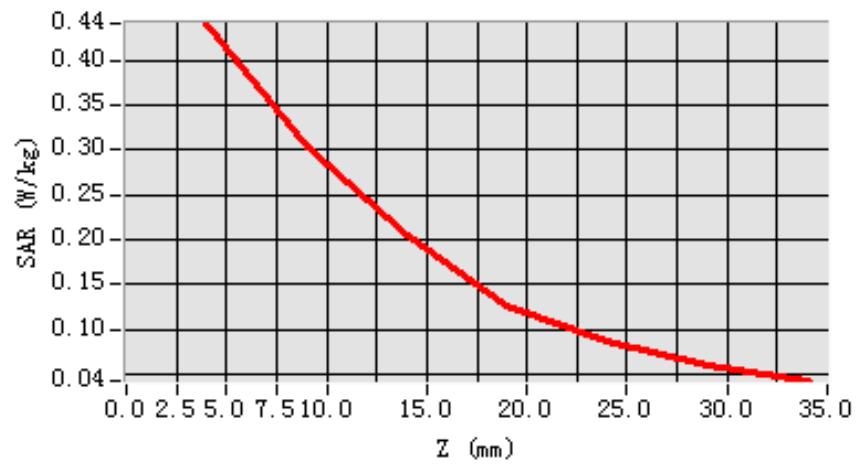
SAR 10g (W/Kg)	0.275461
SAR 1g (W/Kg)	0.401246

## Z Axis Scan

Z(mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/kg)	0.0000	0.4233	0.2622	0.1764	0.1324	0.0664	0.0444



SAR, Z Axis Scan (X = -3, Y = -7)





## MEASUREMENT 9

Date of measurement: 1/11/2010

Area Scan: 7 x 7 x 1

dx=15mm

dy=15mm

Zoom Scan: 5 x 5 x 7

dx=5mm

dy=5mm

dz=5mm

Z Axis Scan: 1 x 1 x 21

dx=20mm

dy=20mm

dz=5mm

### A. Experimental conditions.

Phantom File	zinf15.txt, Adaptive 2 max
Phantom	Left head
Device Position	Cheek
Band	GSM1900
Channels	High
Signal	GSM

### B. Instrumentations.

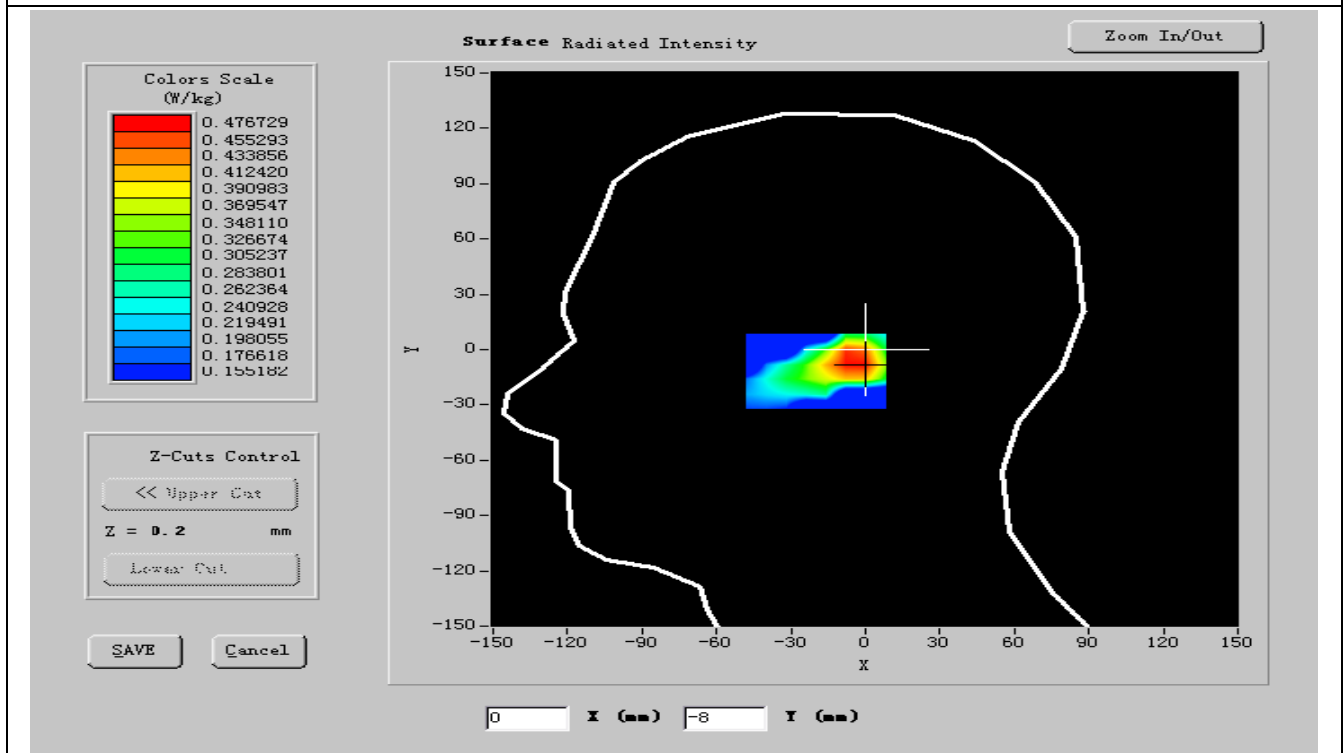
PC	HP (Pentium(R) V3.06GHz, SN:375052-AA1)	Calibration Due: N/A
Wireless Communication Test Set	R&S (CMU200, SN:B23-03291)	Calibration Due: 05/25/2011
Network Analyzer	Agilent(E5071B, MY42301382)	Calibration Due: 03/24/2011
Voltmeter	Keithley (2000, SN:1015843)	Calibration Due: 05/25/2011
Signal Generator	Agilent (E8257C, SN:MY43321570)	Calibration Due: 03/24/2011
Amplifier	Mini-Circuits (ZHL-42, SN:110405)	Calibration Due: 07/29/2011
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibration Due: 03/24/2011
Probe	Antennessa (SN:SN_1109_EP_100)	Calibration Due: 05/05/2011
DIPOLE 1900	Antennessa (DIPI36, SN 48/05)	Calibration Due: 02/10/2011
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibration Due: N/A
Liquid	Antennessa	Calibration Due: N/A
Measurement SW	OPEN SAR V2.1	Calibration Due: N/A



## C. SAR Measurement Results

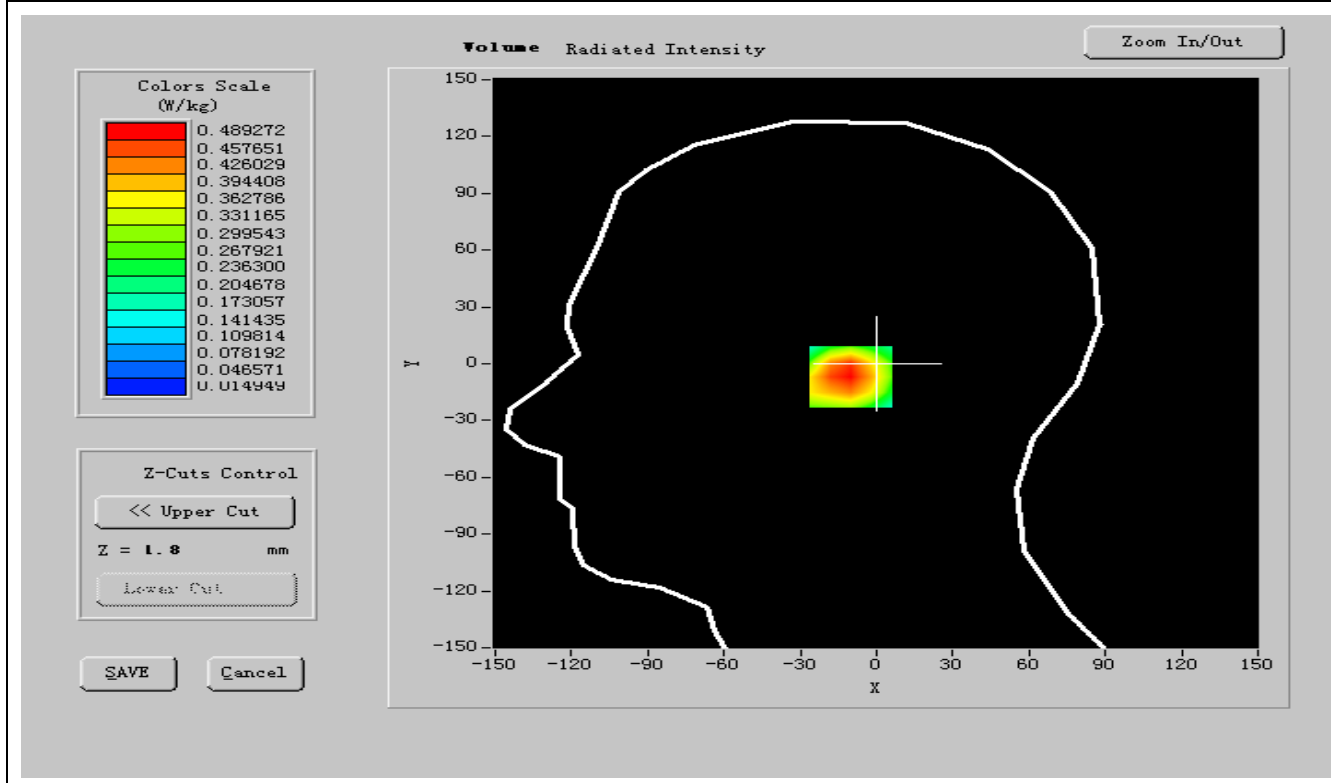
Frequency (MHz)	1909.599976
Relative permittivity (real part)	40.285999
Relative permittivity (imaginary part)	13.669900
Conductivity (S/m)	1.410242
Variation (%)	0.400000
Ambient Temperature:	21 °C
Liquid Temperature:	20 °C
ConvF:	41.91, 43.15, 56.44
Crest factor:	1:8

### SURFACE SAR





## VOLUME SAR



**Maximum location: X=-13.00, Y=-3.00**

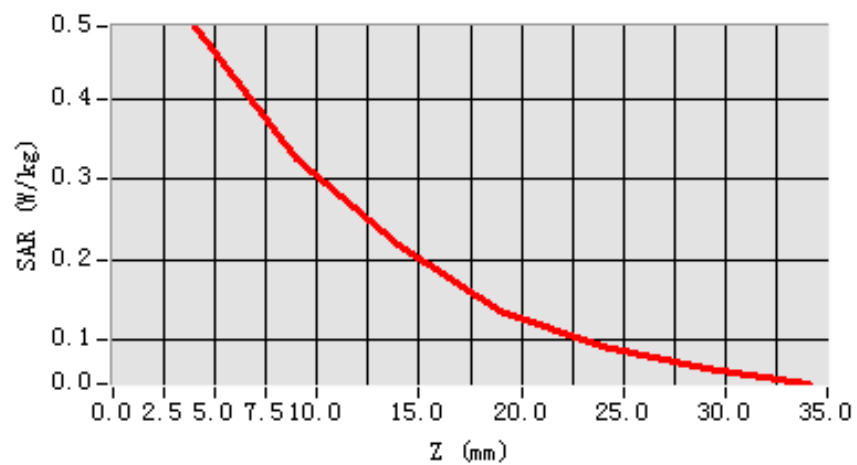
SAR 10g (W/Kg)	0.301561
SAR 1g (W/Kg)	0.459025

### Z Axis Scan

Z(mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/kg)	0.0000	0.4490	0.3222	0.2164	0.1824	0.0864	0.0354



SAR, Z Axis Scan (X = -3, Y = -7)



**MEASUREMENT 10****Date of measurement: 1/11/2010****Area Scan: 7 x 7 x 1****dx=15mm****dy=15mm****Zoom Scan: 5 x 5 x 7****dx=5mm****dy=5mm****dz=5mm****Z Axis Scan: 1 x 1 x 21****dx=20mm****dy=20mm****dz=5mm****A. Experimental conditions.**

<b>Phantom File</b>	zinf15.txt, Adaptive 2 max
<b>Phantom</b>	Left head
<b>Device Position</b>	Tilt
<b>Band</b>	GSM1900
<b>Channels</b>	Low
<b>Signal</b>	GSM

**B. Instrumentations.**

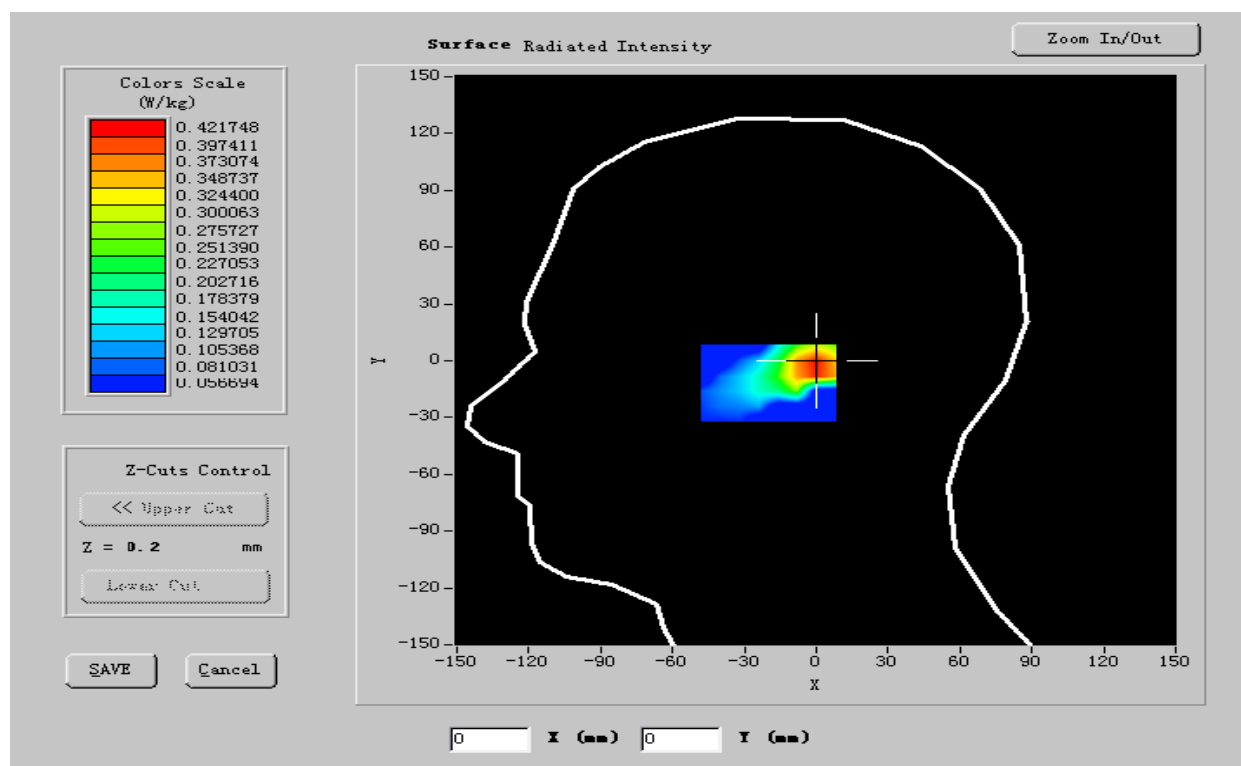
<b>PC</b>	HP (Pentium(R) V3.06GHz, SN:375052-AA1)	Calibration Due: N/A
<b>Wireless Communication Test Set</b>	R&S (CMU200, SN:B23-03291)	Calibration Due: 05/25/2011
<b>Network Analyzer</b>	Agilent(E5071B, MY42301382)	Calibration Due: 03/24/2011
<b>Voltmeter</b>	Keithley (2000, SN:1015843)	Calibration Due: 05/25/2011
<b>Signal Generator</b>	Agilent (E8257C, SN:MY43321570)	Calibration Due: 03/24/2011
<b>Amplifier</b>	Mini-Circuits (ZHL-42, SN:110405)	Calibration Due: 07/29/2011
<b>Power Meter</b>	Agilent (E4416A, SN:QB41292714)	Calibration Due: 03/24/2011
<b>Probe</b>	Antennessa (SN:SN_1109_EP_100)	Calibration Due: 05/05/2011
<b>DIPOLE 1900</b>	Antennessa (DIPI36, SN 48/05)	Calibration Due: 02/10/2011
<b>Phantom</b>	Antennessa (SN:SN41_05_SAM29)	Calibration Due: N/A
<b>Liquid</b>	Antennessa	Calibration Due: N/A
<b>Measurement SW</b>	OPEN SAR V2.1	Calibration Due: N/A



## C. SAR Measurement Results

Frequency (MHz)	1850.400024
Relative permittivity (real part)	40.313134
Relative permittivity (imaginary part)	13.584900
Conductivity (S/m)	1.416243
Variation (%)	-0.700000
Ambient Temperature:	21 °C
Liquid Temperature:	20 °C
ConvF:	41.91, 43.15, 56.44
Crest factor:	1:8

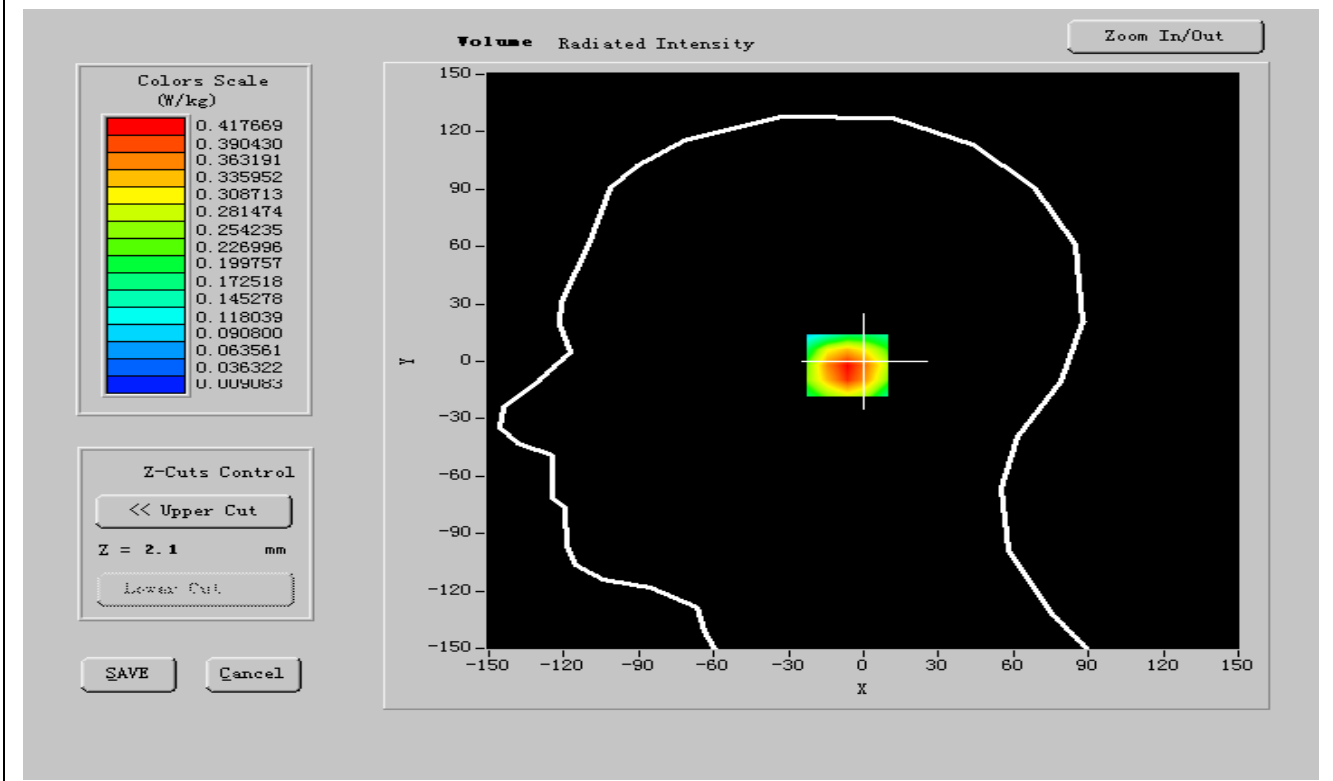
### SURFACE SAR







## VOLUME SAR



**Maximum location: X=-13.00, Y=-3.00**

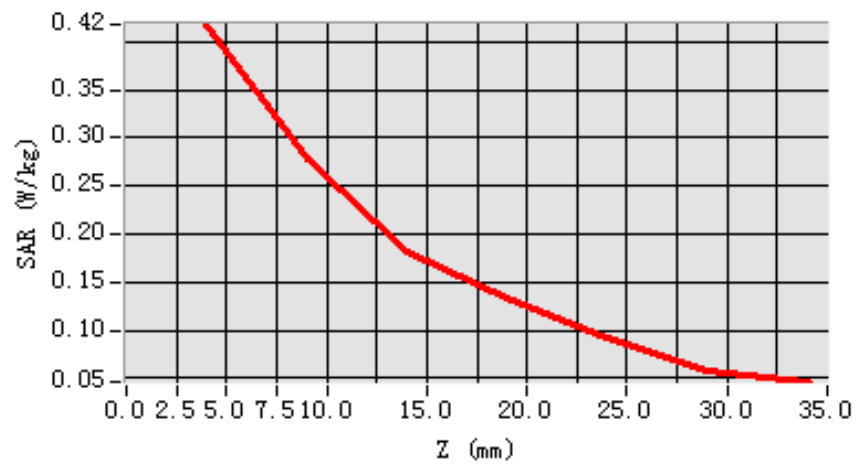
SAR 10g (W/Kg)	0.264912
SAR 1g (W/Kg)	0.417950

### Z Axis Scan

Z(mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/kg)	0.0000	0.4032	0.3224	0.2134	0.1864	0.0864	0.0554



SAR, Z Axis Scan (X = 0, Y = -2)



**MEASUREMENT 11****Date of measurement: 1/11/2010****Area Scan: 7 x 7 x 1****dx=15mm****dy=15mm****Zoom Scan: 5 x 5 x 7****dx=5mm****dy=5mm****dz=5mm****Z Axis Scan: 1 x 1 x 21****dx=20mm****dy=20mm****dz=5mm****A. Experimental conditions.**

<b>Phantom File</b>	zinf15.txt, Adaptive 2 max
<b>Phantom</b>	Left head
<b>Device Position</b>	Tilt
<b>Band</b>	GSM1900
<b>Channels</b>	Middle
<b>Signal</b>	GSM

**B. Instrumentations.**

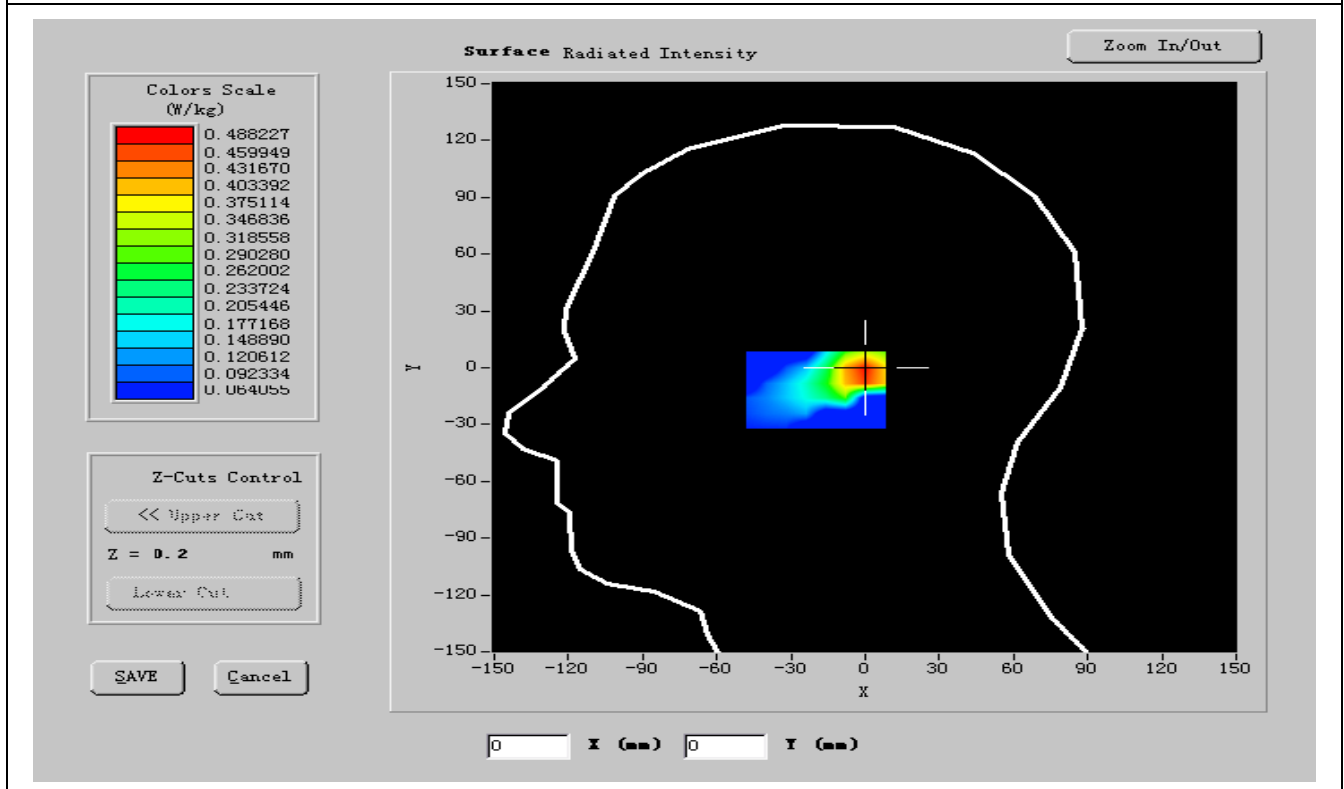
<b>PC</b>	<b>HP (Pentium(R) V3.06GHz, SN:375052-AA1)</b>	<b>Calibration Due: N/A</b>
<b>Wireless Communication Test Set</b>	<b>R&amp;S (CMU200, SN:B23-03291)</b>	<b>Calibration Due: 05/25/2011</b>
<b>Network Analyzer</b>	<b>Agilent(E5071B, MY42301382)</b>	<b>Calibration Due: 03/24/2011</b>
<b>Voltmeter</b>	<b>Keithley (2000, SN:1015843)</b>	<b>Calibration Due: 05/25/2011</b>
<b>Signal Generator</b>	<b>Agilent (E8257C, SN:MY43321570)</b>	<b>Calibration Due: 03/24/2011</b>
<b>Amplifier</b>	<b>Mini-Circuits (ZHL-42, SN:110405)</b>	<b>Calibration Due: 07/29/2011</b>
<b>Power Meter</b>	<b>Agilent (E4416A, SN:QB41292714)</b>	<b>Calibration Due: 03/24/2011</b>
<b>Probe</b>	<b>Antennessa (SN:SN_1109_EP_100)</b>	<b>Calibration Due: 05/05/2011</b>
<b>DIPOLE 1900</b>	<b>Antennessa (DIP136, SN 48/05)</b>	<b>Calibration Due: 02/10/2011</b>
<b>Phantom</b>	<b>Antennessa (SN:SN41_05_SAM29)</b>	<b>Calibration Due: N/A</b>
<b>Liquid</b>	<b>Antennessa</b>	<b>Calibration Due: N/A</b>
<b>Measurement SW</b>	<b>OPEN SAR V2.1</b>	<b>Calibration Due: N/A</b>



## C. SAR Measurement Results

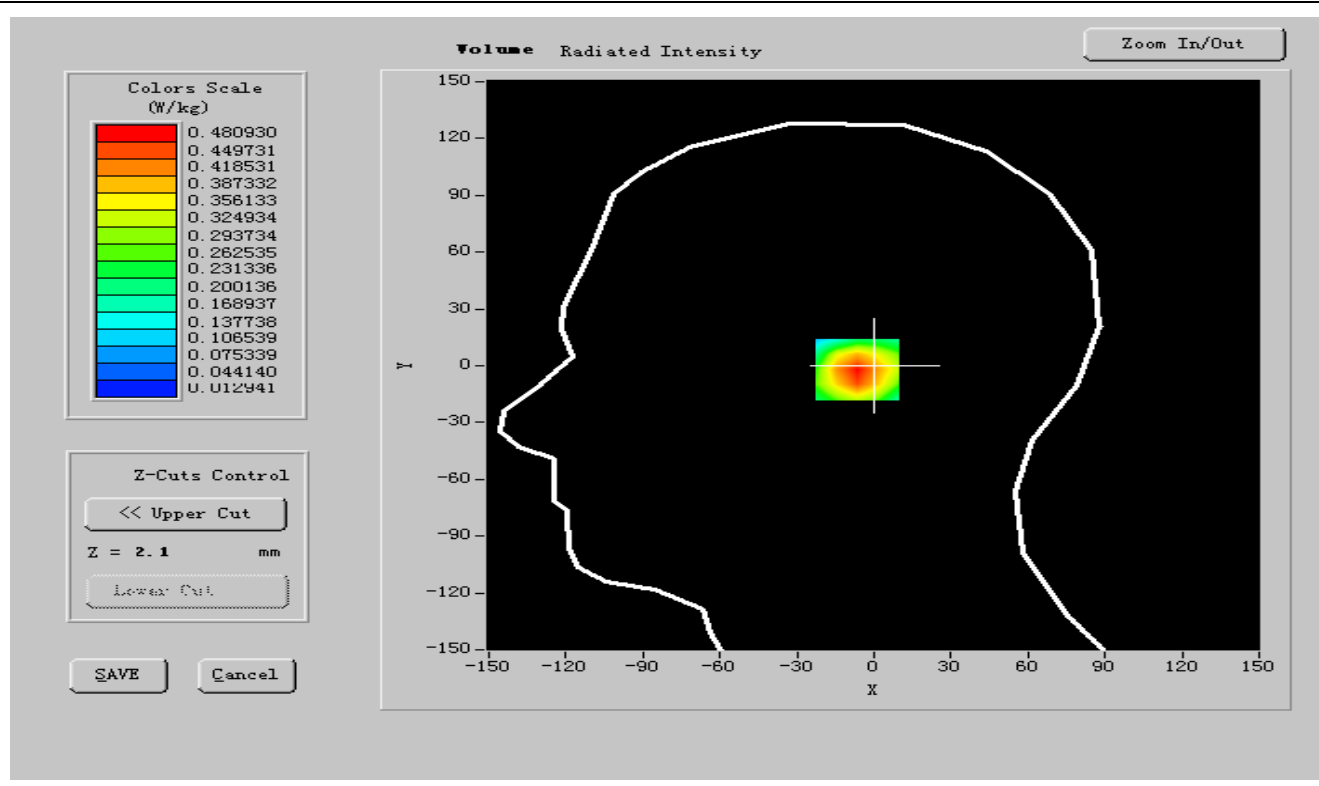
Frequency (MHz)	1880.000000
Relative permittivity (real part)	40.193001
Relative permittivity (imaginary part)	13.813800
Conductivity (S/m)	1.413245
Variation (%)	-1.100000
Ambient Temperature:	21 °C
Liquid Temperature:	20 °C
ConvF:	41.91, 43.15, 56.44
Crest factor:	1:8

### SURFACE SAR





## VOLUME SAR

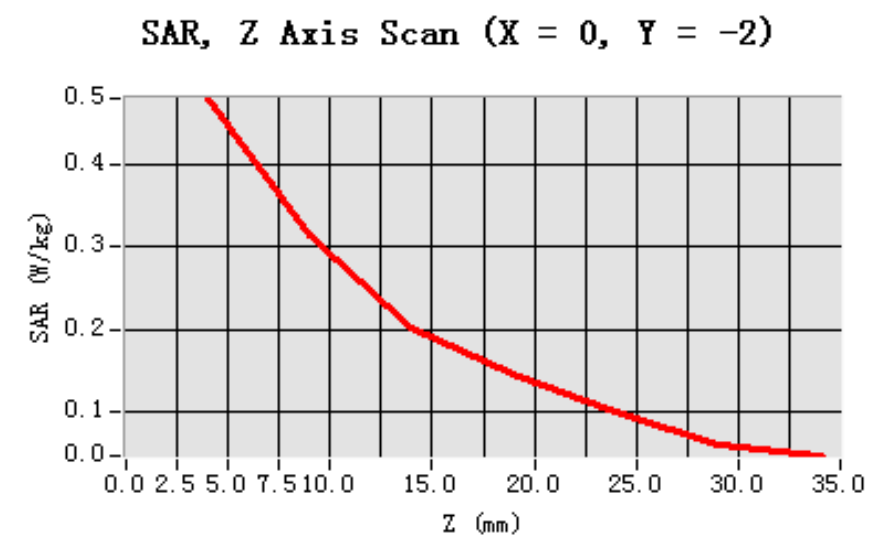


Maximum location: X=-13.00, Y=-3.00

SAR 10g (W/Kg)	0.246123
SAR 1g (W/Kg)	0.438961

### Z Axis Scan

Z(mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/kg)	0.0000	0.4468	0.3024	0.1934	0.1564	0.0864	0.0084





## MEASUREMENT 12

Date of measurement: 1/11/2010

Area Scan: 7 x 7 x 1

dx=15mm

dy=15mm

Zoom Scan: 5 x 5 x 7

dx=5mm

dy=5mm

dz=5mm

Z Axis Scan: 1 x 1 x 21

dx=20mm

dy=20mm

dz=5mm

### A. Experimental conditions.

Phantom File	zinf15.txt, Adaptive 2 max
Phantom	Left head
Device Position	Tilt
Band	GSM1900
Channels	High
Signal	GSM

### B. Instrumentations.

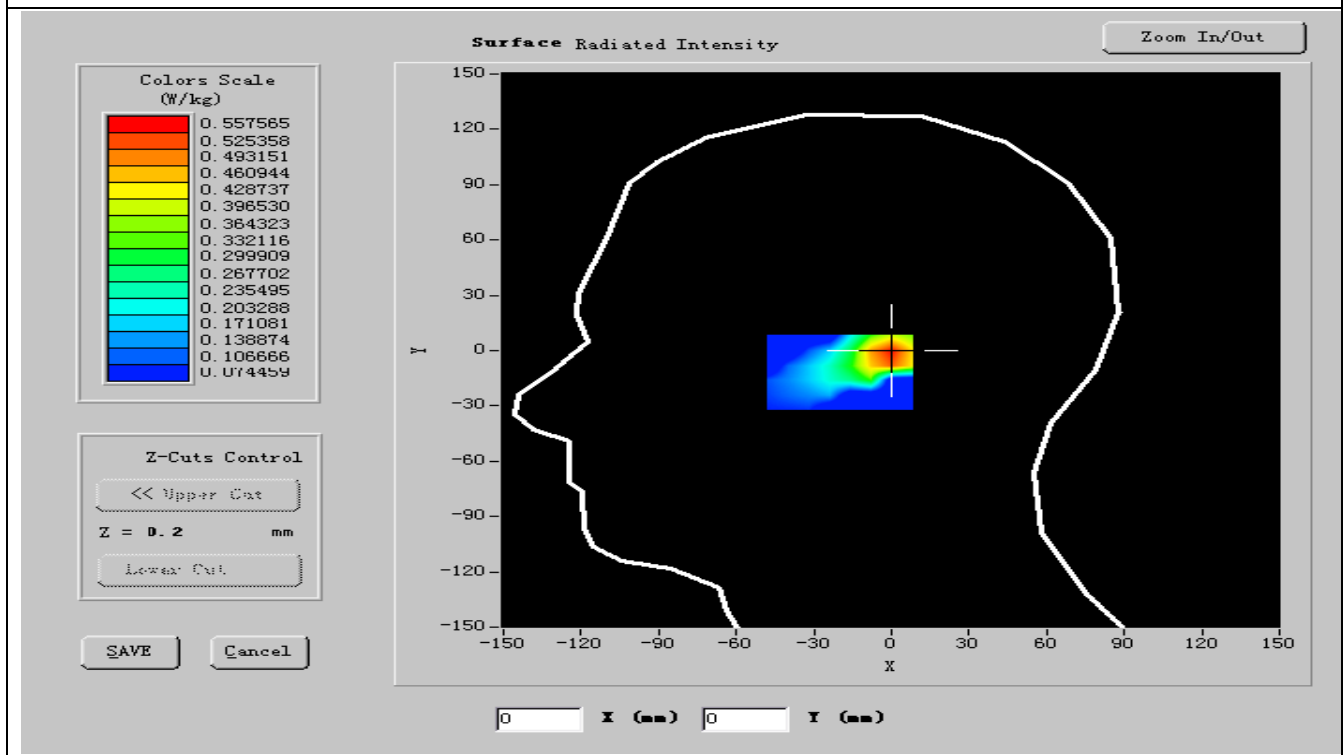
PC	HP (Pentium(R) V3.06GHz, SN:375052-AA1)	Calibration Due: N/A
Wireless Communication Test Set	R&S (CMU200, SN:B23-03291)	Calibration Due: 05/25/2011
Network Analyzer	Agilent(E5071B, MY42301382)	Calibration Due: 03/24/2011
Voltmeter	Keithley (2000, SN:1015843)	Calibration Due: 05/25/2011
Signal Generator	Agilent (E8257C, SN:MY43321570)	Calibration Due: 03/24/2011
Amplifier	Mini-Circuits (ZHL-42, SN:110405)	Calibration Due: 07/29/2011
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibration Due: 03/24/2011
Probe	Antennessa (SN:SN_1109_EP_100)	Calibration Due: 05/05/2011
DIPOLE 1900	Antennessa (DIPI36, SN 48/05)	Calibration Due: 02/10/2011
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibration Due: N/A
Liquid	Antennessa	Calibration Due: N/A
Measurement SW	OPEN SAR V2.1	Calibration Due: N/A



## C. SAR Measurement Results

Frequency (MHz)	1909.599976
Relative permittivity (real part)	40.285999
Relative permittivity (imaginary part)	13.669900
Conductivity (S/m)	1.420225
Variation (%)	-1.130000
Ambient Temperature:	21 °C
Liquid Temperature:	20 °C
ConvF:	41.91, 43.15, 56.44
Crest factor:	1:8

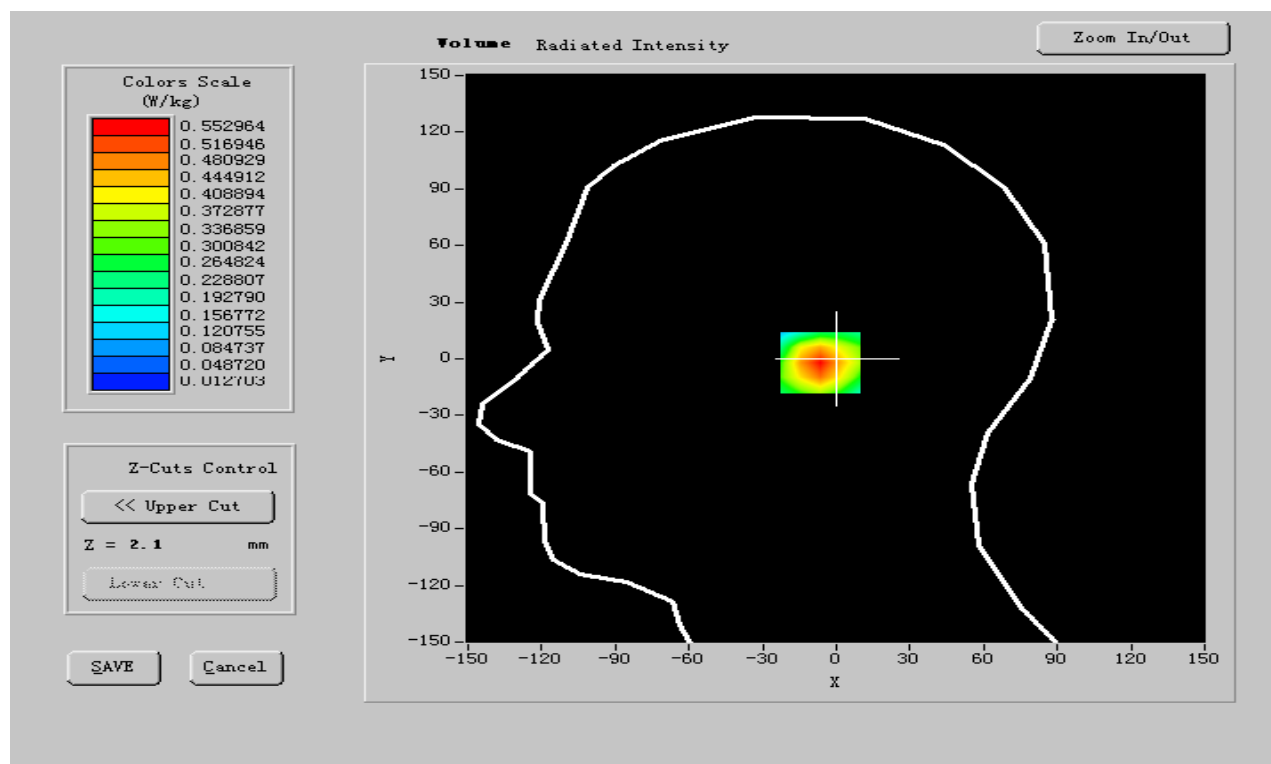
### SURFACE SAR







## VOLUME SAR



Maximum location: X=-13.00, Y=-3.00

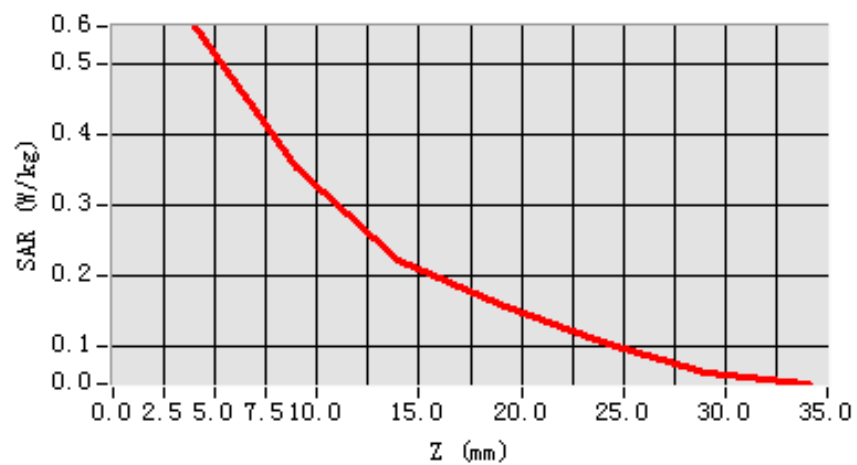
SAR 10g (W/Kg)	0.375231
SAR 1g (W/Kg)	0.489462

### Z Axis Scan

Z(mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/kg)	0.0000	0.4877	0.3377	0.1934	0.1464	0.1264	0.0089



SAR, Z Axis Scan (X = 0, Y = -2)



**MEASUREMENT 13****Date of measurement: 1/11/2010****Area Scan: 7 x 7 x 1****dx=15mm****dy=15mm****Zoom Scan: 5 x 5 x 7****dx=5mm****dy=5mm****dz=5mm****Z Axis Scan: 1 x 1 x 21****dx=20mm****dy=20mm****dz=5mm****A. Experimental conditions.**

<b>Phantom File</b>	zinf15.txt, Adaptive 2 max
<b>Phantom</b>	Body
<b>Device Position</b>	FrontSide toward phantom
<b>Band</b>	GSM1900
<b>Channels</b>	Low
<b>Signal</b>	GSM

**B. Instrumentations.**

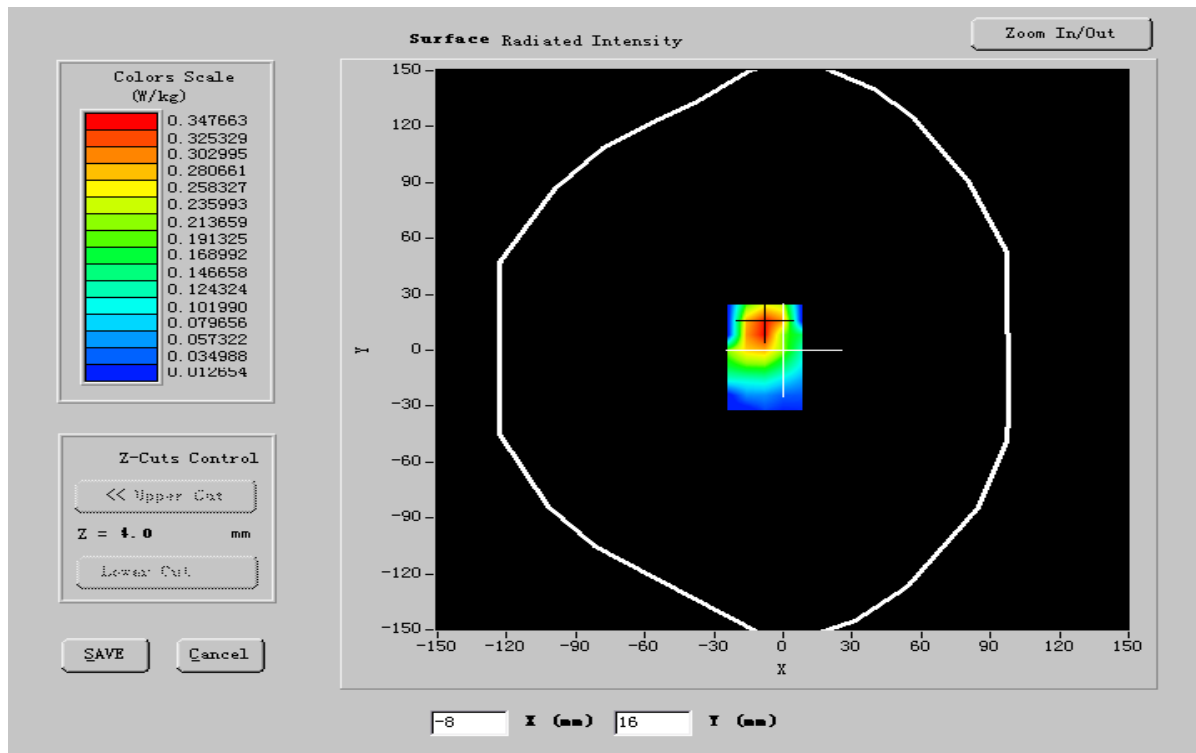
<b>PC</b>	<b>HP (Pentium(R) V3.06GHz, SN:375052-AA1)</b>	<b>Calibration Due: N/A</b>
<b>Wireless Communication Test Set</b>	<b>R&amp;S (CMU200, SN:B23-03291)</b>	<b>Calibration Due: 05/25/2011</b>
<b>Network Analyzer</b>	<b>Agilent(E5071B, MY42301382)</b>	<b>Calibration Due: 03/24/2011</b>
<b>Voltmeter</b>	<b>Keithley (2000, SN:1015843)</b>	<b>Calibration Due: 05/25/2011</b>
<b>Signal Generator</b>	<b>Agilent (E8257C, SN:MY43321570)</b>	<b>Calibration Due: 03/24/2011</b>
<b>Amplifier</b>	<b>Mini-Circuits (ZHL-42, SN:110405)</b>	<b>Calibration Due: 07/29/2011</b>
<b>Power Meter</b>	<b>Agilent (E4416A, SN:QB41292714)</b>	<b>Calibration Due: 03/24/2011</b>
<b>Probe</b>	<b>Antennessa (SN:SN_1109_EP_100)</b>	<b>Calibration Due: 05/05/2011</b>
<b>DIPOLE 1900</b>	<b>Antennessa (DIP136, SN 48/05)</b>	<b>Calibration Due: 02/10/2011</b>
<b>Phantom</b>	<b>Antennessa (SN:SN41_05_SAM29)</b>	<b>Calibration Due: N/A</b>
<b>Liquid</b>	<b>Antennessa</b>	<b>Calibration Due: N/A</b>
<b>Measurement SW</b>	<b>OPEN SAR V2.1</b>	<b>Calibration Due: N/A</b>



## C. SAR Measurement Results

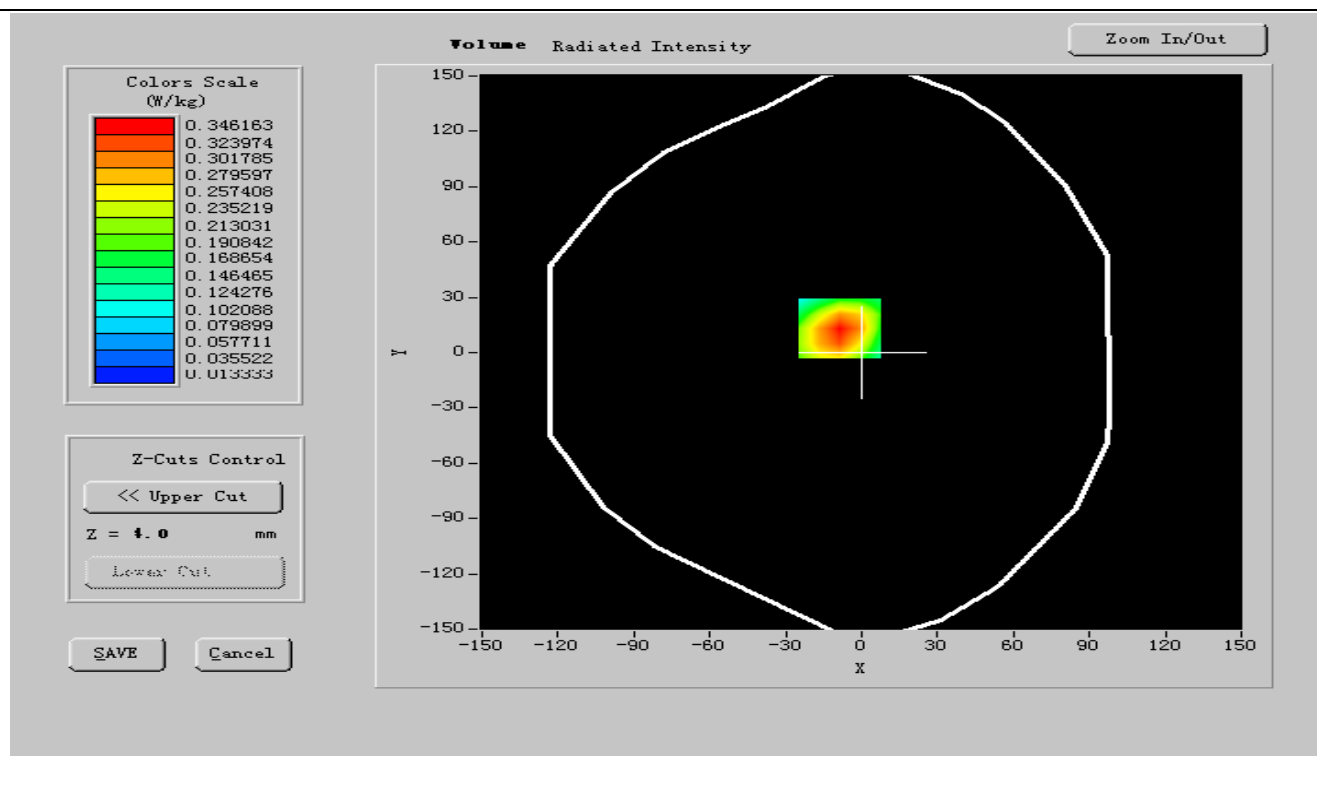
Frequency (MHz)	1850.400024
Relative permittivity (real part)	52.313000
Relative permittivity (imaginary part)	13.584900
Conductivity (S/m)	1.416522
Variation (%)	-0.130000
Ambient Temperature:	21 °C
Liquid Temperature:	20 °C
ConvF:	41.01, 42.41, 55.65
Crest factor:	1:8

### SURFACE SAR





## VOLUME SAR



**Maximum location: X=-13.00, Y=-3.00**

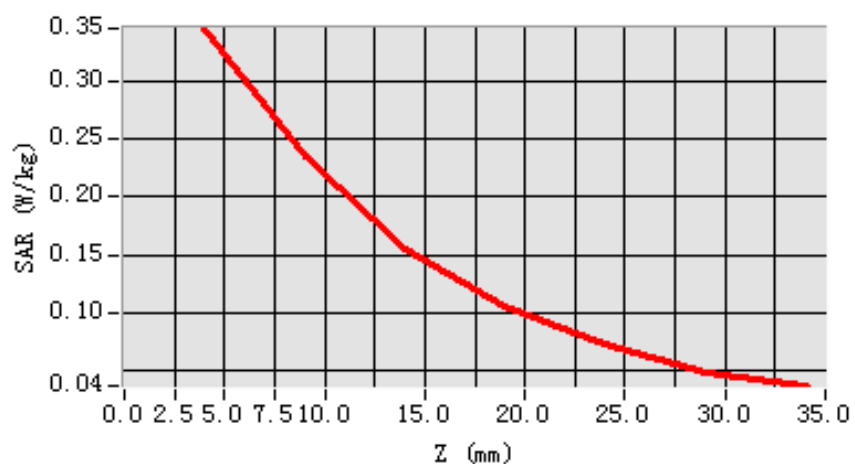
SAR 10g (W/Kg)	0.216794
SAR 1g (W/Kg)	0.315671

### Z Axis Scan

Z(mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/kg)	0.0000	0.3133	0.2873	0.1934	0.1464	0.1264	0.0089



SAR, Z Axis Scan (X = -9, Y = 13)



**MEASUREMENT 14****Date of measurement: 1/11/2010****Area Scan: 7 x 7 x 1****dx=15mm****dy=15mm****Zoom Scan: 5 x 5 x 7****dx=5mm****dy=5mm****dz=5mm****Z Axis Scan: 1 x 1 x 21****dx=20mm****dy=20mm****dz=5mm****A. Experimental conditions.**

<b>Phantom File</b>	zinf15.txt, Adaptive 2 max
<b>Phantom</b>	Body
<b>Device Position</b>	FrontSide toward phantom
<b>Band</b>	GSM1900
<b>Channels</b>	Middle
<b>Signal</b>	GSM

**B. Instrumentations.**

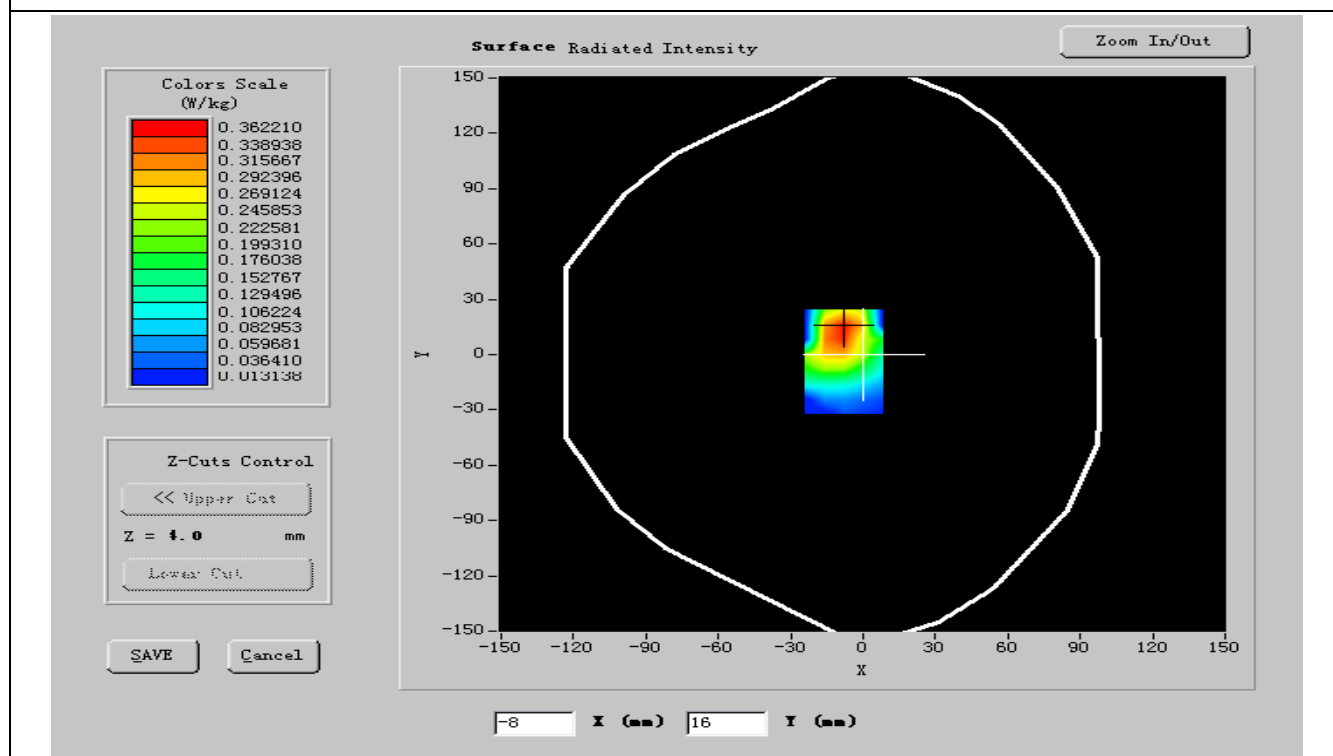
<b>PC</b>	<b>HP (Pentium(R) V3.06GHz, SN:375052-AA1)</b>	<b>Calibration Due: N/A</b>
<b>Wireless Communication Test Set</b>	<b>R&amp;S (CMU200, SN:B23-03291)</b>	<b>Calibration Due: 05/25/2011</b>
<b>Network Analyzer</b>	<b>Agilent(E5071B, MY42301382)</b>	<b>Calibration Due: 03/24/2011</b>
<b>Voltmeter</b>	<b>Keithley (2000, SN:1015843)</b>	<b>Calibration Due: 05/25/2011</b>
<b>Signal Generator</b>	<b>Agilent (E8257C, SN:MY43321570)</b>	<b>Calibration Due: 03/24/2011</b>
<b>Amplifier</b>	<b>Mini-Circuits (ZHL-42, SN:110405)</b>	<b>Calibration Due: 07/29/2011</b>
<b>Power Meter</b>	<b>Agilent (E4416A, SN:QB41292714)</b>	<b>Calibration Due: 03/24/2011</b>
<b>Probe</b>	<b>Antennessa (SN:SN_1109_EP_100)</b>	<b>Calibration Due: 05/05/2011</b>
<b>DIPOLE 1900</b>	<b>Antennessa (DIP136, SN 48/05)</b>	<b>Calibration Due: 02/10/2011</b>
<b>Phantom</b>	<b>Antennessa (SN:SN41_05_SAM29)</b>	<b>Calibration Due: N/A</b>
<b>Liquid</b>	<b>Antennessa</b>	<b>Calibration Due: N/A</b>
<b>Measurement SW</b>	<b>OPEN SAR V2.1</b>	<b>Calibration Due: N/A</b>



## C. SAR Measurement Results

Frequency (MHz)	1880.000000
Relative permittivity (real part)	52.893001
Relative permittivity (imaginary part)	13.813800
Conductivity (S/m)	1.512775
Variation (%)	-0.700000
Ambient Temperature:	21 °C
Liquid Temperature:	20 °C
ConvF:	41.01, 42.41, 55.65
Crest factor:	1:8

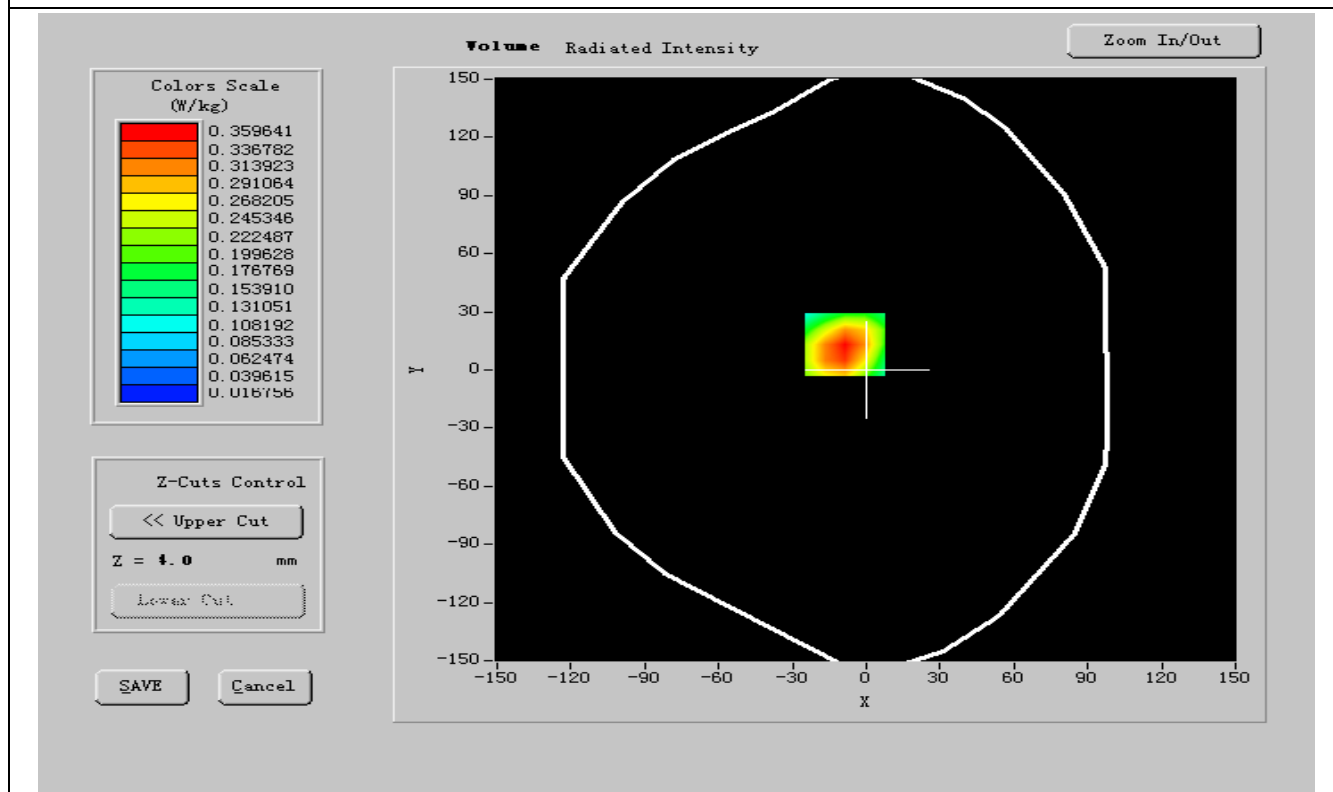
### SURFACE SAR







## VOLUME SAR



**Maximum location: X=-13.00, Y=-3.00**

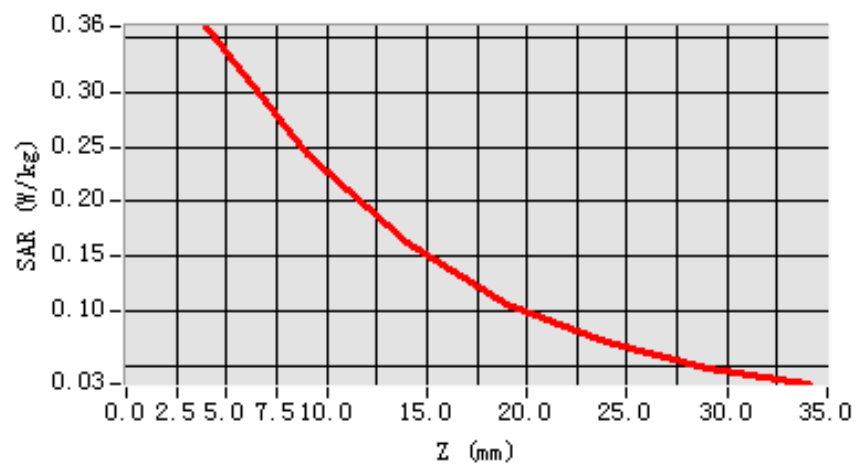
SAR 10g (W/Kg)	0.213497
SAR 1g (W/Kg)	0.335461

### Z Axis Scan

Z(mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/kg)	0.0000	0.3152	0.2832	0.1923	0.1423	0.0932	0.0309



SAR, Z Axis Scan (X = -9, Y = 13)



**MEASUREMENT 15****Date of measurement: 1/11/2010****Area Scan: 7 x 7 x 1****dx=15mm****dy=15mm****Zoom Scan: 5 x 5 x 7****dx=5mm****dy=5mm****dz=5mm****Z Axis Scan: 1 x 1 x 21****dx=20mm****dy=20mm****dz=5mm****A. Experimental conditions.**

<b>Phantom File</b>	zinf15.txt, Adaptive 2 max
<b>Phantom</b>	Body
<b>Device Position</b>	FrontSide toward phantom
<b>Band</b>	GSM1900
<b>Channels</b>	High
<b>Signal</b>	GSM

**B. Instrumentations.**

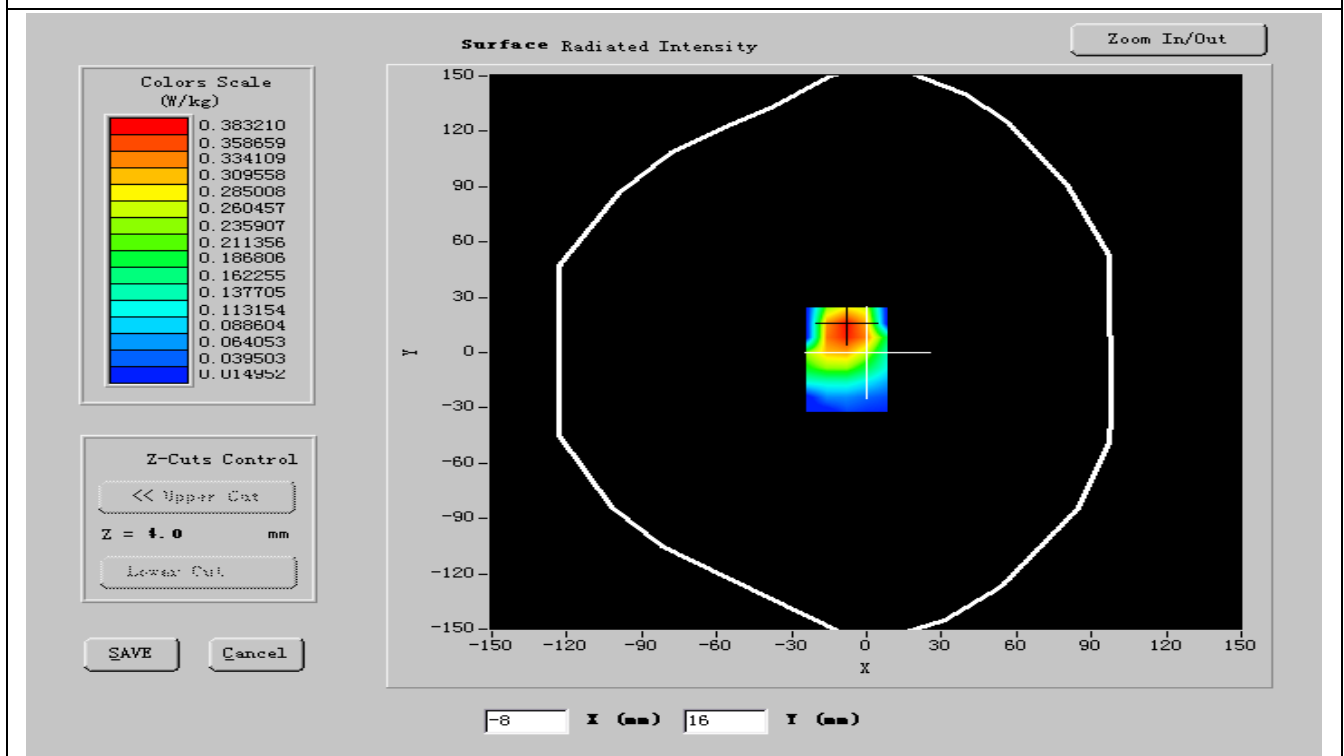
<b>PC</b>	<b>HP (Pentium(R) V3.06GHz, SN:375052-AA1)</b>	<b>Calibration Due: N/A</b>
<b>Wireless Communication Test Set</b>	<b>R&amp;S (CMU200, SN:B23-03291)</b>	<b>Calibration Due: 05/25/2011</b>
<b>Network Analyzer</b>	<b>Agilent(E5071B, MY42301382)</b>	<b>Calibration Due: 03/24/2011</b>
<b>Voltmeter</b>	<b>Keithley (2000, SN:1015843)</b>	<b>Calibration Due: 05/25/2011</b>
<b>Signal Generator</b>	<b>Agilent (E8257C, SN:MY43321570)</b>	<b>Calibration Due: 03/24/2011</b>
<b>Amplifier</b>	<b>Mini-Circuits (ZHL-42, SN:110405)</b>	<b>Calibration Due: 07/29/2011</b>
<b>Power Meter</b>	<b>Agilent (E4416A, SN:QB41292714)</b>	<b>Calibration Due: 03/24/2011</b>
<b>Probe</b>	<b>Antennessa (SN:SN_1109_EP_100)</b>	<b>Calibration Due: 05/05/2011</b>
<b>DIPOLE 1900</b>	<b>Antennessa (DIP136, SN 48/05)</b>	<b>Calibration Due: 02/10/2011</b>
<b>Phantom</b>	<b>Antennessa (SN:SN41_05_SAM29)</b>	<b>Calibration Due: N/A</b>
<b>Liquid</b>	<b>Antennessa</b>	<b>Calibration Due: N/A</b>
<b>Measurement SW</b>	<b>OPEN SAR V2.1</b>	<b>Calibration Due: N/A</b>



## C. SAR Measurement Results

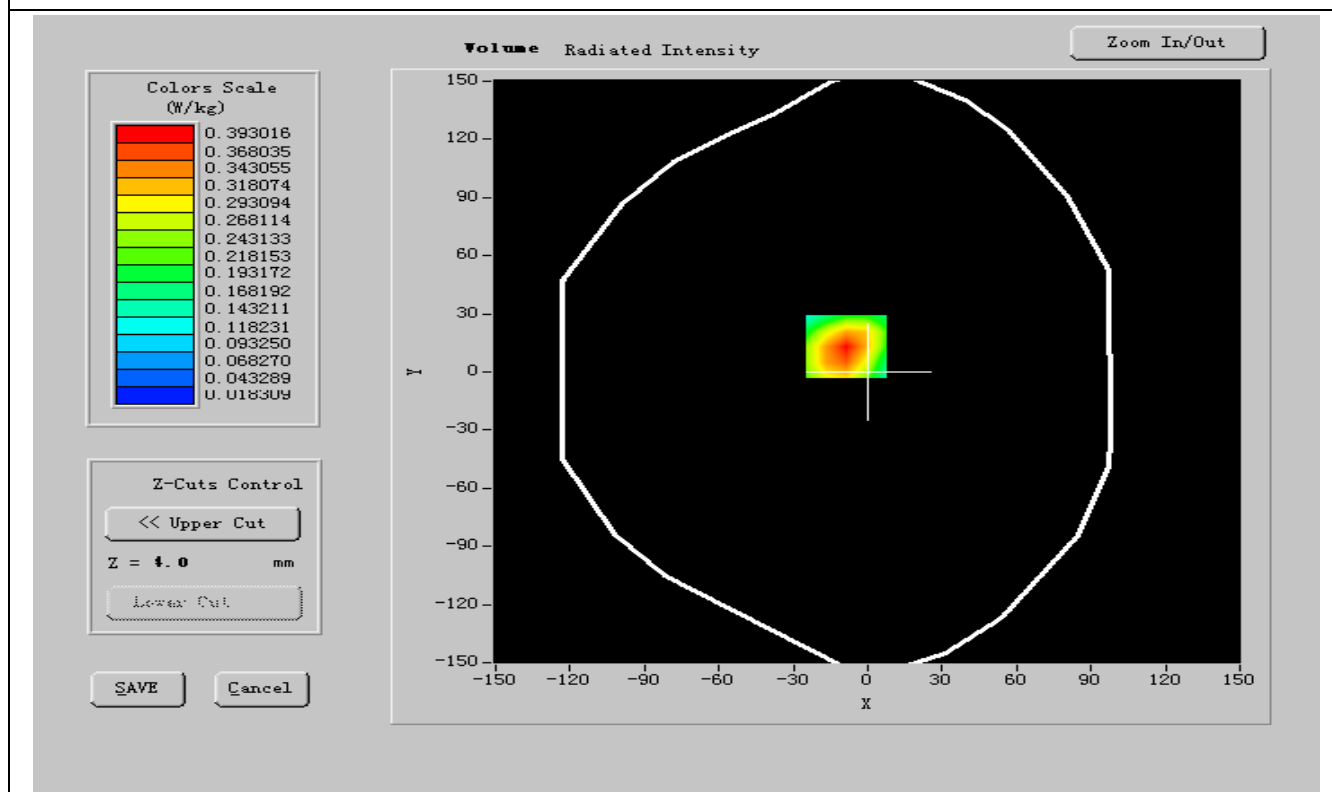
Frequency (MHz)	1909.599976
Relative permittivity (real part)	52.885999
Relative permittivity (imaginary part)	13.669900
Conductivity (S/m)	1.510225
Variation (%)	-0.600000
Ambient Temperature:	21 °C
Liquid Temperature:	20 °C
ConvF:	41.01, 42.41, 55.65
Crest factor:	1:8

### SURFACE SAR





## VOLUME SAR



**Maximum location: X=-13.00, Y=-3.00**

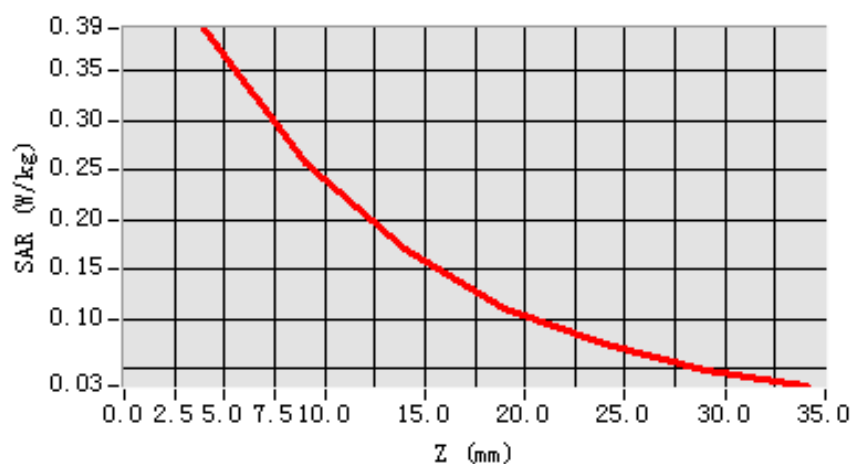
SAR 10g (W/Kg)	0.224497
SAR 1g (W/Kg)	0.376419

### Z Axis Scan

Z(mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/kg)	0.0000	0.3571	0.2832	0.1823	0.1423	0.0923	0.0322



SAR, Z Axis Scan (X = -9, Y = 13)



**MEASUREMENT 16****Date of measurement: 1/11/2010****Area Scan: 7 x 7 x 1****dx=15mm****dy=15mm****Zoom Scan: 5 x 5 x 7****dx=5mm****dy=5mm****dz=5mm****Z Axis Scan: 1 x 1 x 21****dx=20mm****dy=20mm****dz=5mm****A. Experimental conditions.**

<b>Phantom File</b>	zinf15.txt, Adaptive 2 max
<b>Phantom</b>	Body
<b>Device Position</b>	BackSide toward phantom
<b>Band</b>	GSM1900
<b>Channels</b>	Low
<b>Signal</b>	GSM

**B. Instrumentations.**

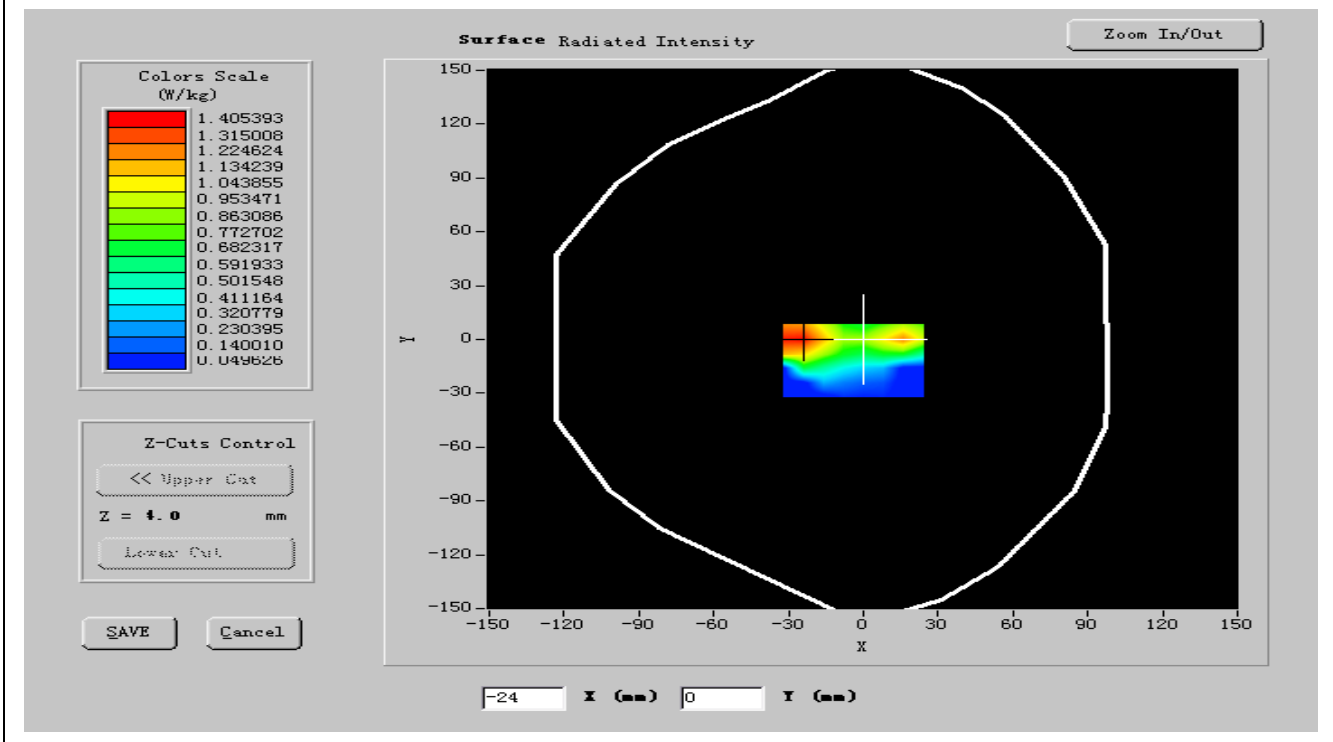
<b>PC</b>	<b>HP (Pentium(R) V3.06GHz, SN:375052-AA1)</b>	<b>Calibration Due: N/A</b>
<b>Wireless Communication Test Set</b>	<b>R&amp;S (CMU200, SN:B23-03291)</b>	<b>Calibration Due: 05/25/2011</b>
<b>Network Analyzer</b>	<b>Agilent(E5071B, MY42301382)</b>	<b>Calibration Due: 03/24/2011</b>
<b>Voltmeter</b>	<b>Keithley (2000, SN:1015843)</b>	<b>Calibration Due: 05/25/2011</b>
<b>Signal Generator</b>	<b>Agilent (E8257C, SN:MY43321570)</b>	<b>Calibration Due: 03/24/2011</b>
<b>Amplifier</b>	<b>Mini-Circuits (ZHL-42, SN:110405)</b>	<b>Calibration Due: 07/29/2011</b>
<b>Power Meter</b>	<b>Agilent (E4416A, SN:QB41292714)</b>	<b>Calibration Due: 03/24/2011</b>
<b>Probe</b>	<b>Antennessa (SN:SN_1109_EP_100)</b>	<b>Calibration Due: 05/05/2011</b>
<b>DIPOLE 1900</b>	<b>Antennessa (DIP136, SN 48/05)</b>	<b>Calibration Due: 02/10/2011</b>
<b>Phantom</b>	<b>Antennessa (SN:SN41_05_SAM29)</b>	<b>Calibration Due: N/A</b>
<b>Liquid</b>	<b>Antennessa</b>	<b>Calibration Due: N/A</b>
<b>Measurement SW</b>	<b>OPEN SAR V2.1</b>	<b>Calibration Due: N/A</b>



### C. SAR Measurement Results

Frequency (MHz)	1710.199951
Relative permittivity (real part)	52.347400
Relative permittivity (imaginary part)	14.450693
Conductivity (S/m)	1.533698
Variation (%)	-0.400000
Ambient Temperature:	21 °C
Liquid Temperature:	20 °C
ConvF:	41.01, 42.41, 55.65
Crest factor:	1:8

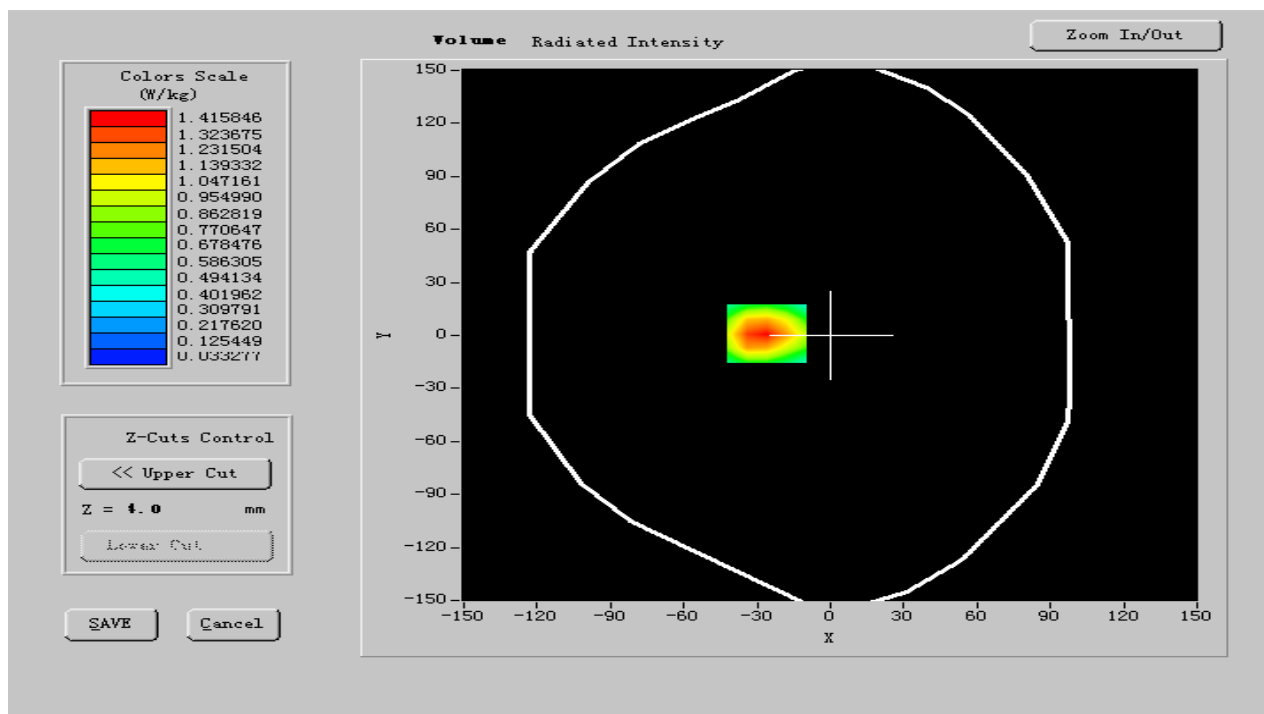
#### SURFACE SAR







## VOLUME SAR



Maximum location: X=-13.00, Y=-3.00

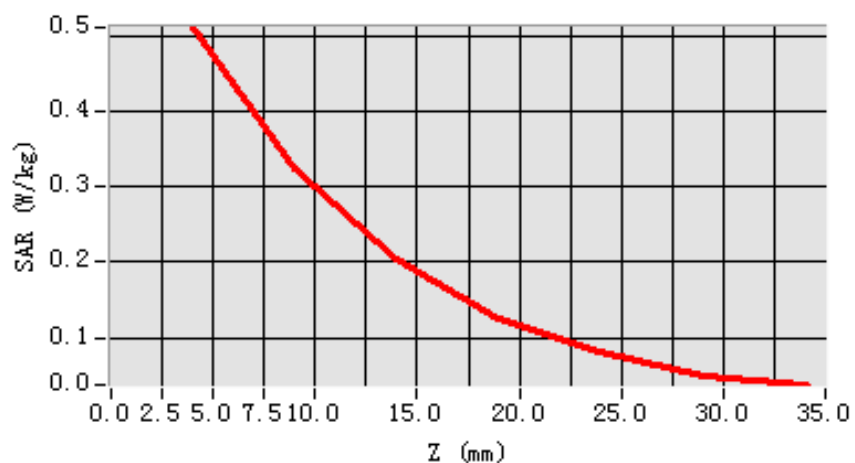
SAR 10g (W/Kg)	0.220349
SAR 1g (W/Kg)	0.438412

### Z Axis Scan

Z(mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/kg)	0.0000	0.4188	0.2834	0.1920	0.1523	0.0854	0.0072



SAR, Z Axis Scan (X = -10, Y = 12)





## MEASUREMENT 17

Date of measurement: 1/11/2010

Area Scan: 7 x 7 x 1

dx=15mm

dy=15mm

Zoom Scan: 5 x 5 x 7

dx=5mm

dy=5mm

dz=5mm

Z Axis Scan: 1 x 1 x 21

dx=20mm

dy=20mm

dz=5mm

### A. Experimental conditions.

Phantom File	zinf15.txt, Adaptive 2 max
Phantom	Body
Device Position	BackSide toward phantom
Band	GSM1900
Channels	Middle
Signal	GSM

### B. Instrumentations.

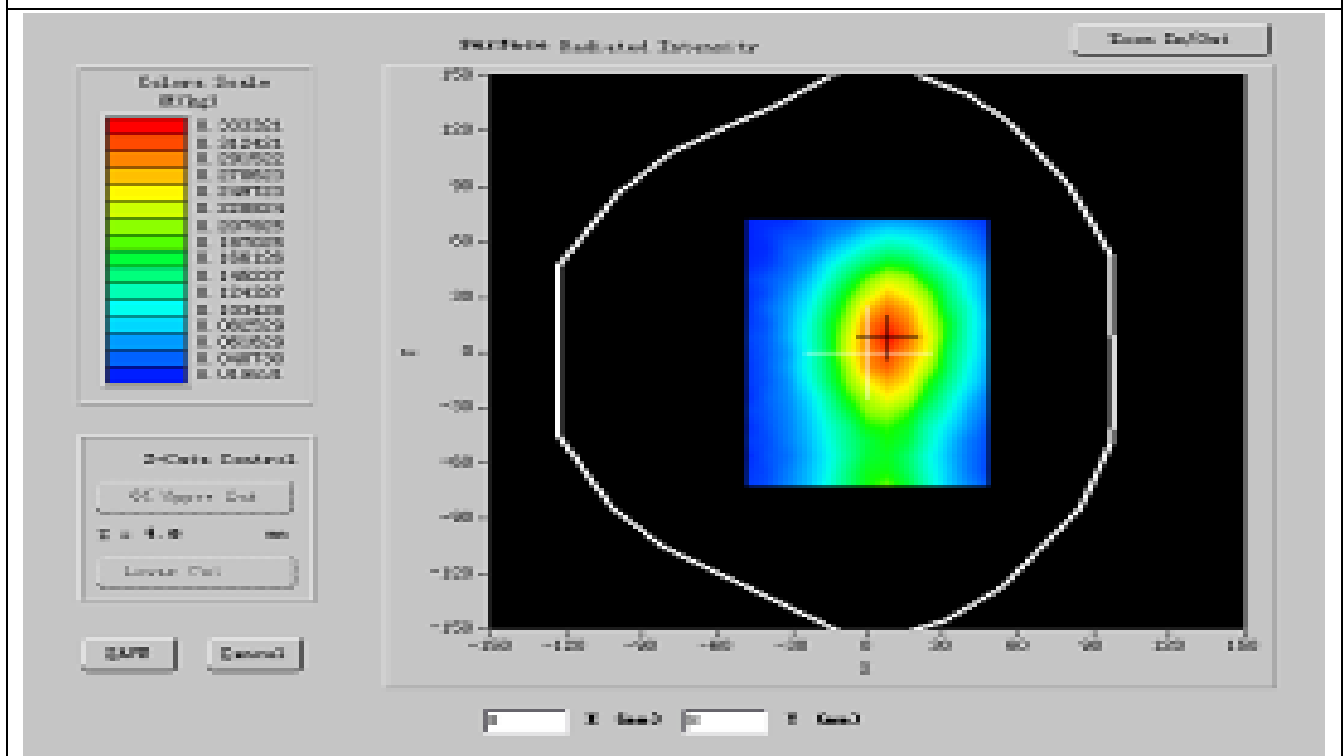
PC	HP (Pentium(R) V3.06GHz, SN:375052-AA1)	Calibration Due: N/A
Wireless Communication Test Set	R&S (CMU200, SN:B23-03291)	Calibration Due: 05/25/2011
Network Analyzer	Agilent(E5071B, MY42301382)	Calibration Due: 03/24/2011
Voltmeter	Keithley (2000, SN:1015843)	Calibration Due: 05/25/2011
Signal Generator	Agilent (E8257C, SN:MY43321570)	Calibration Due: 03/24/2011
Amplifier	Mini-Circuits (ZHL-42, SN:110405)	Calibration Due: 07/29/2011
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibration Due: 03/24/2011
Probe	Antennessa (SN:SN_1109_EP_100)	Calibration Due: 05/05/2011
DIPOLE 1900	Antennessa (DIPI36, SN 48/05)	Calibration Due: 02/10/2011
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibration Due: N/A
Liquid	Antennessa	Calibration Due: N/A
Measurement SW	OPEN SAR V2.1	Calibration Due: N/A



## C. SAR Measurement Results

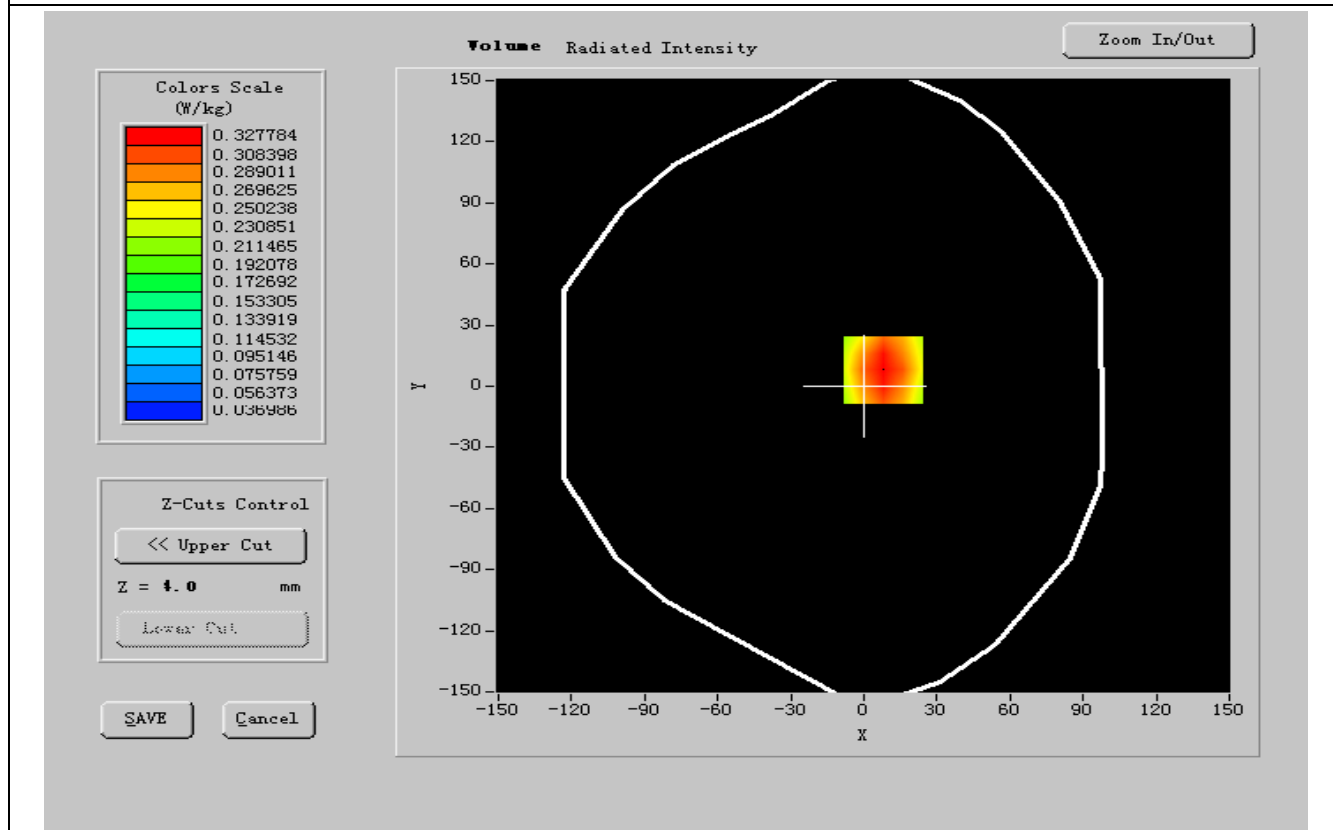
Frequency (MHz)	1747.400004
Relative permittivity (real part)	51.417028
Relative permittivity (imaginary part)	14.293556
Conductivity (S/m)	1.514286
Variation (%)	-1.010000
Ambient Temperature:	21 °C
Liquid Temperature:	20 °C
ConvF:	41.01, 42.41, 55.65
Crest factor:	1:8

### SURFACE SAR





## VOLUME SAR



Maximum location: X=-13.00, Y=-3.00

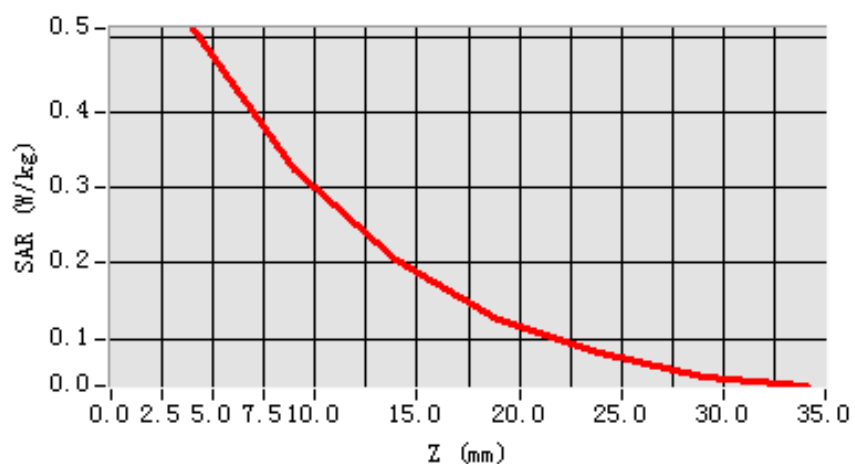
SAR 10g (W/Kg)	0.223794
SAR 1g (W/Kg)	0.441614

### Z Axis Scan

Z(mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/kg)	0.0000	0.4242	0.3034	0.1820	0.1323	0.0954	0.0062



## SAR, Z Axis Scan (X = -10, Y = 12)





## MEASUREMENT 18

Date of measurement: 1/11/2010

Area Scan: 7 x 7 x 1

dx=15mm

dy=15mm

Zoom Scan: 5 x 5 x 7

dx=5mm

dy=5mm

dz=5mm

Z Axis Scan: 1 x 1 x 21

dx=20mm

dy=20mm

dz=5mm

### A. Experimental conditions.

Phantom File	zinf15.txt, Adaptive 2 max
Phantom	Body
Device Position	BackSide toward phantom
Band	GSM1900
Channels	High
Signal	GSM

### B. Instrumentations.

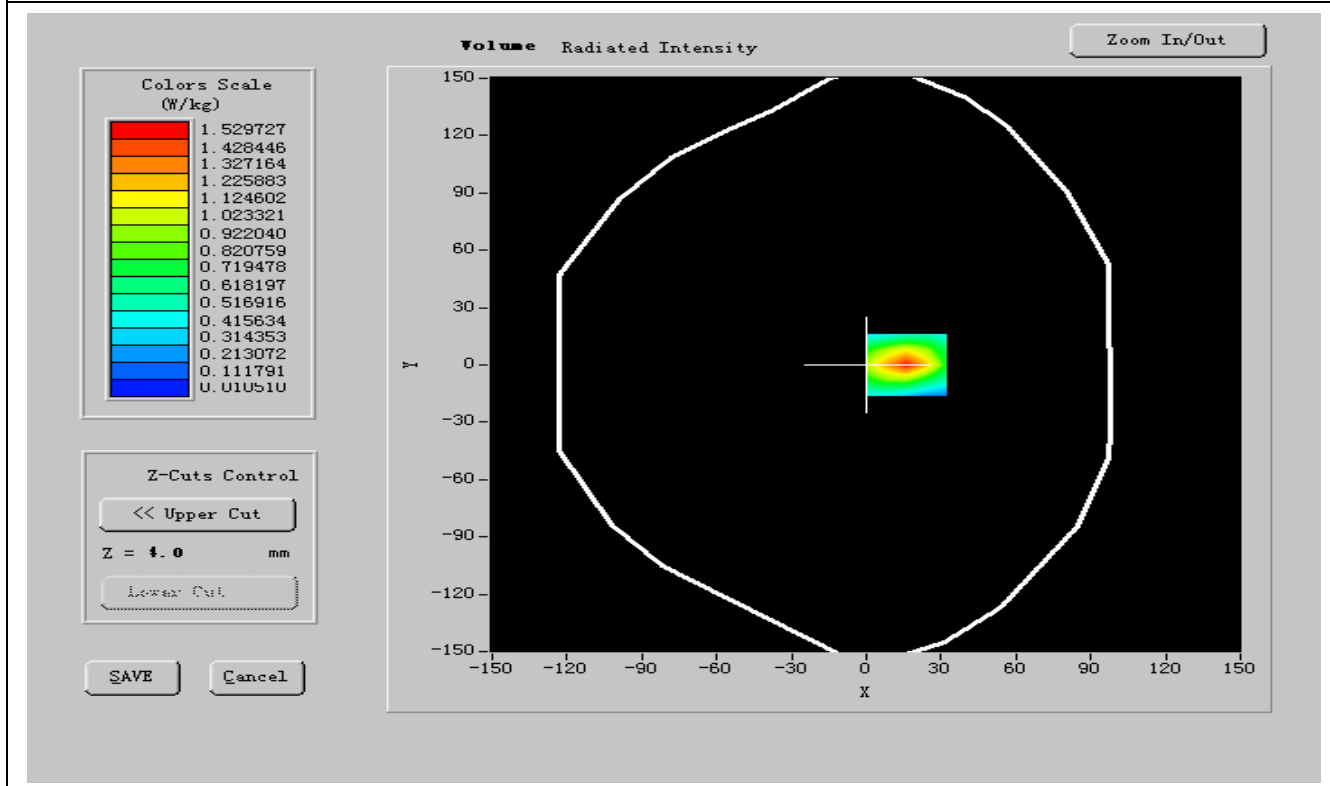
PC	HP (Pentium(R) V3.06GHz, SN:375052-AA1)	Calibration Due: N/A
Wireless Communication Test Set	R&S (CMU200, SN:B23-03291)	Calibration Due: 05/25/2011
Network Analyzer	Agilent(E5071B, MY42301382)	Calibration Due: 03/24/2011
Voltmeter	Keithley (2000, SN:1015843)	Calibration Due: 05/25/2011
Signal Generator	Agilent (E8257C, SN:MY43321570)	Calibration Due: 03/24/2011
Amplifier	Mini-Circuits (ZHL-42, SN:110405)	Calibration Due: 07/29/2011
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibration Due: 03/24/2011
Probe	Antennessa (SN:SN_1109_EP_100)	Calibration Due: 05/05/2011
DIPOLE 1900	Antennessa (DIP136, SN 48/05)	Calibration Due: 02/10/2011
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibration Due: N/A
Liquid	Antennessa	Calibration Due: N/A
Measurement SW	OPEN SAR V2.1	Calibration Due: N/A







## VOLUME SAR



Maximum location: X=-13.00, Y=-3.00

SAR 10g (W/Kg)	0.279134
SAR 1g (W/Kg)	0.467653

### Z Axis Scan

Z(mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/kg)	0.0000	0.4467	0.3054	0.1865	0.1234	0.0754	0.0032



SAR, Z Axis Scan (X = -10, Y = 12)

