



### III. 802.11 B RESULTS

<u>TYPE</u>	<u>PARAMETERS</u>
<u>Phone</u>	<u>Measurement 1:</u> Right Head with Cheek device position on Low Channel in 802.11b mode <u>Measurement 2:</u> Right Head with Cheek device position on Middle Channel in 802.11b mode <u>Measurement 3:</u> Right Head with Cheek device position on High Channel in 802.11b mode <u>Measurement 4:</u> Right Head with Tilt device position on Low Channel in 802.11b mode <u>Measurement 5:</u> Right Head with Tilt device position on Middle Channel in 802.11b mode <u>Measurement 6:</u> Right Head with Tilt device position on High Channel in 802.11b mode <u>Measurement 7:</u> Left Head with Cheek device position on Low Channel in 802.11b mode <u>Measurement 8:</u> Left Head with Cheek device position on Middle Channel in 802.11b mode <u>Measurement 9:</u> Left Head with Cheek device position on High Channel in 802.11b mode <u>Measurement 10:</u> Left Head with Tilt device position on Low Channel in 802.11b mode <u>Measurement 11:</u> Left Head with Tilt device position on Middle Channel in 802.11b mode <u>Measurement 12:</u> Left Head with Tilt device position on High Channel in 802.11b mode <u>Measurement 13:</u> FrontSide toward phantom 15mm on Low Channel in 802.11b mode <u>Measurement 14:</u> FrontSide toward phantom 15mm on Middle Channel in 802.11b mode <u>Measurement 15:</u> FrontSide toward phantom 15mm on High Channel in 802.11b mode <u>Measurement 16:</u> BackSide toward phantom 15mm on Low Channel in 802.11b mode <u>Measurement 17:</u> BackSide toward phantom 15mm on Middle Channel in 802.11b mode <u>Measurement 18:</u> BackSide toward phantom 15mm on High Channel in 802.11b mode



## MEASUREMENT 1

**Date of measurement: 04/14/2011****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, Adaptative 2 max
<b>Phantom</b>	Right head
<b>Device Position</b>	Cheek
<b>Band</b>	802.11b
<b>Channels</b>	Low
<b>Signal</b>	wireless

### B. Instrumentations.

<b>PC</b>	<b>HP (Pentium(R) V3.06GHz, SN:375052-AA1)</b>	<b>Calibrated: 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: 03/24/2012</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: 03/24/2012</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: 03/24/2012</b>
<b>Probe</b>	<b>Antennessa (SN:SN_1109_EP_100)</b>	<b>Calibration Due: 05/04/2011</b>
<b>DIPOLE 2450</b>	<b>Antennessa (DIPJ37,SN 48/05)</b>	<b>Calibration Due: 10/09/2011</b>
<b>Phantom</b>	<b>Antennessa (SN:SN41_05_SAM29)</b>	<b>Calibrated: N/A</b>
<b>Liquid</b>	<b>Antennessa</b>	<b>Calibrated: N/A</b>
<b>Measurement SW</b>	<b>OPEN SAR V2.1</b>	<b>Calibrated: N/A</b>

### C. SAR Measurement Results

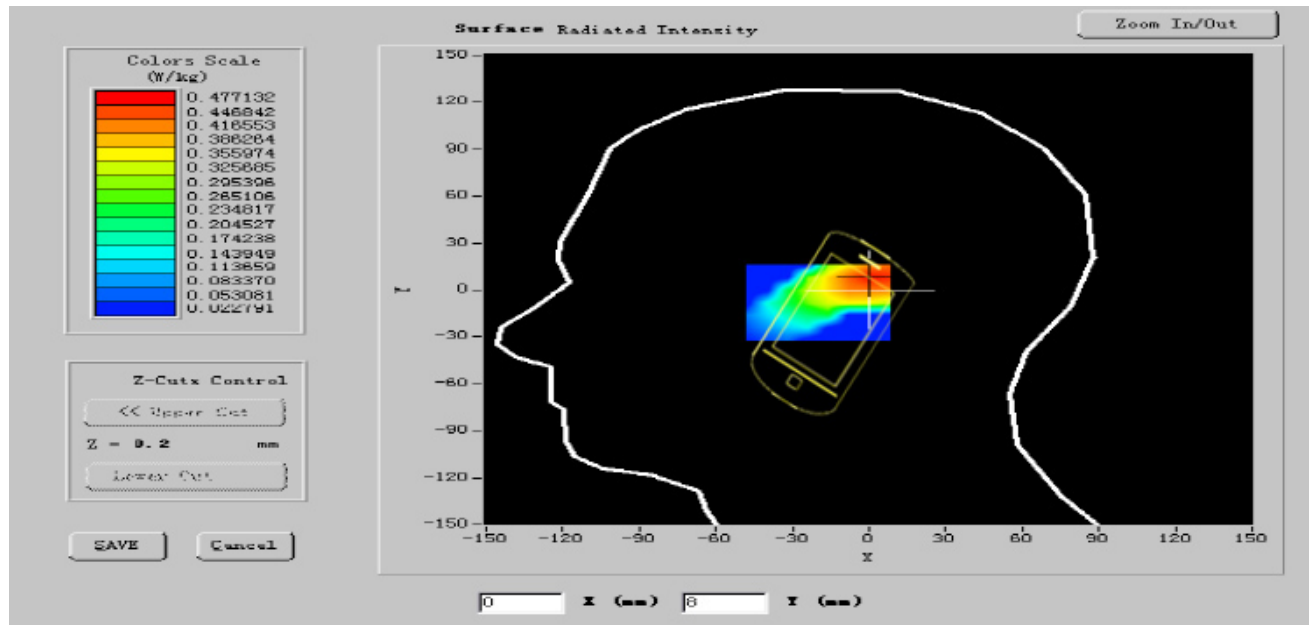
<b>Frequency (MHz)</b>	<b>2412.0000</b>
<b>Relative permittivity (real part)</b>	<b>40.405521</b>
<b>Relative permittivity (imaginary part)</b>	<b>13.349850</b>
<b>Conductivity (S/m)</b>	<b>1.862061</b>
<b>Variation (%)</b>	<b>-1.200000</b>
<b>Ambient Temperature:</b>	<b>21 °C</b>
<b>Liquid Temperature:</b>	<b>20 °C</b>
<b>ConvF:</b>	<b>51.18,53.87,70.48</b>



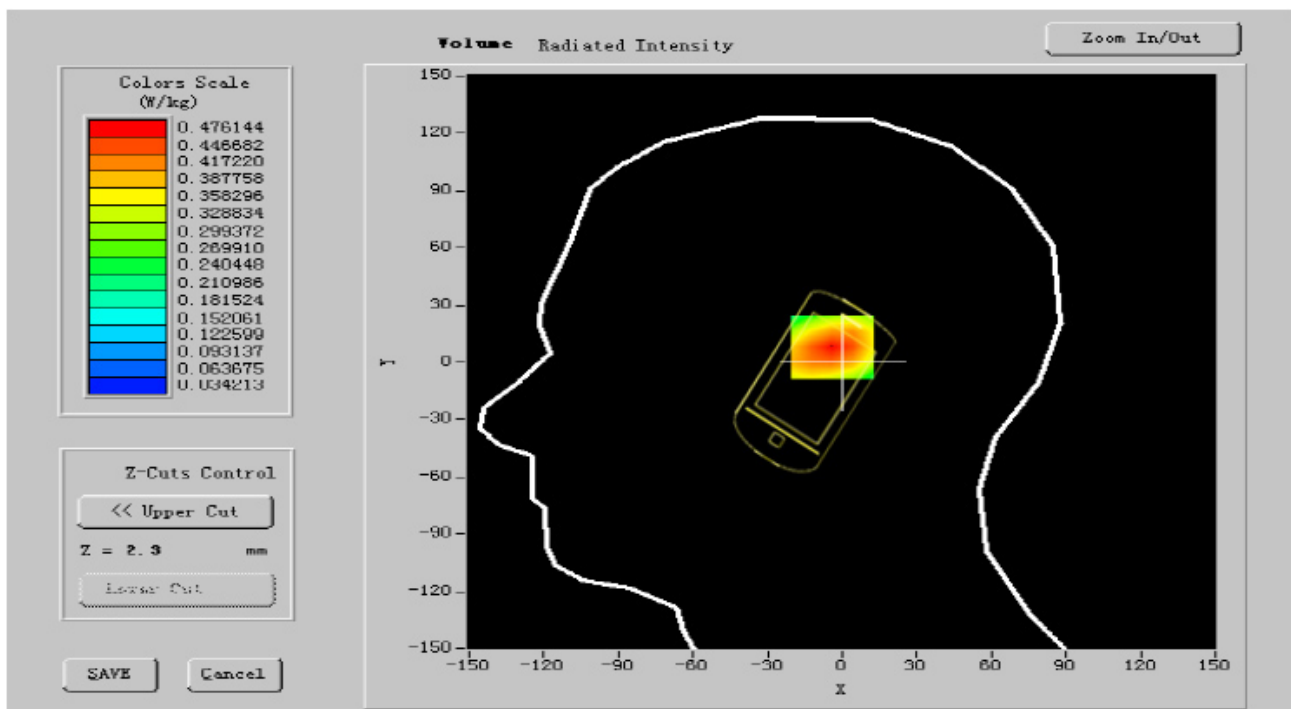
Crest factor:

1:1

## SURFACE SAR



## VOLUME SAR



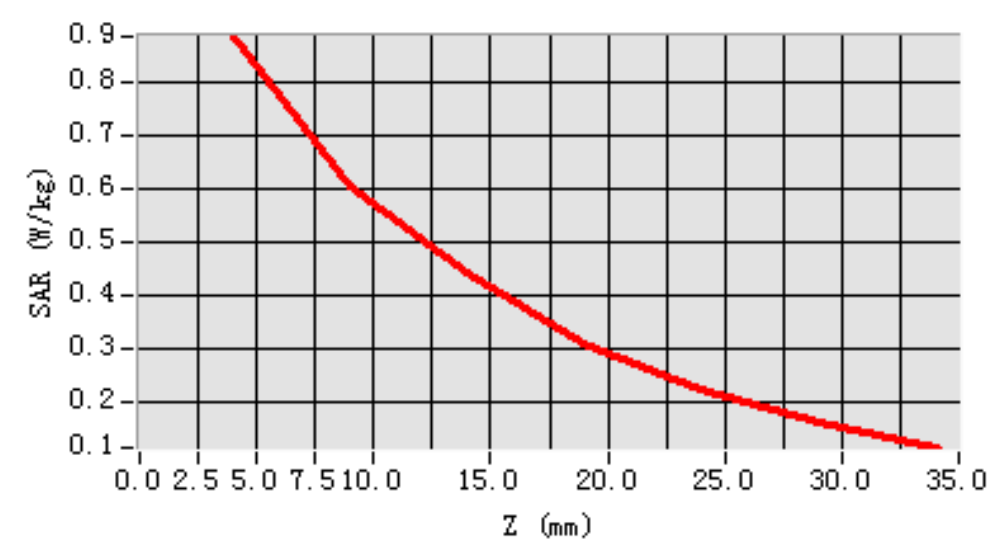


**Maximum location: X=-13.00, Y=-3.00**

SAR 10g (W/Kg)	0.078140
SAR 1g (W/Kg)	0.115912

**Z Axis Scan**

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





## MEASUREMENT 2

**Date of measurement: 04/14/2011****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>	802.11b
<b>Channels</b>	Middle
<b>Signal</b>	wireless

### B. Instrumentations.

<b>PC</b>	<b>HP (Pentium(R) V3.06GHz, SN:375052-AA1)</b>	<b>Calibrated: 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: 03/24/2012</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: 03/24/2012</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: 03/24/2012</b>
<b>Probe</b>	<b>Antennessa (SN:SN_1109_EP_100)</b>	<b>Calibration Due: 05/04/2011</b>
<b>DIPOLE 2450</b>	<b>Antennessa (DIPJ37,SN 48/05)</b>	<b>Calibration Due: 10/09/2011</b>
<b>Phantom</b>	<b>Antennessa (SN:SN41_05_SAM29)</b>	<b>Calibrated: N/A</b>
<b>Liquid</b>	<b>Antennessa</b>	<b>Calibrated: N/A</b>
<b>Measurement SW</b>	<b>OPEN SAR V2.1</b>	<b>Calibrated: N/A</b>

### C. SAR Measurement Results

<b>Frequency (MHz)</b>	<b>2437.000000</b>
<b>Relative permittivity (real part)</b>	<b>40.411368</b>
<b>Relative permittivity (imaginary part)</b>	<b>13.348910</b>
<b>Conductivity (S/m)</b>	<b>1.856671</b>
<b>Variation (%)</b>	<b>-0.300000</b>
<b>Ambient Temperature:</b>	<b>21 °C</b>
<b>Liquid Temperature:</b>	<b>20 °C</b>



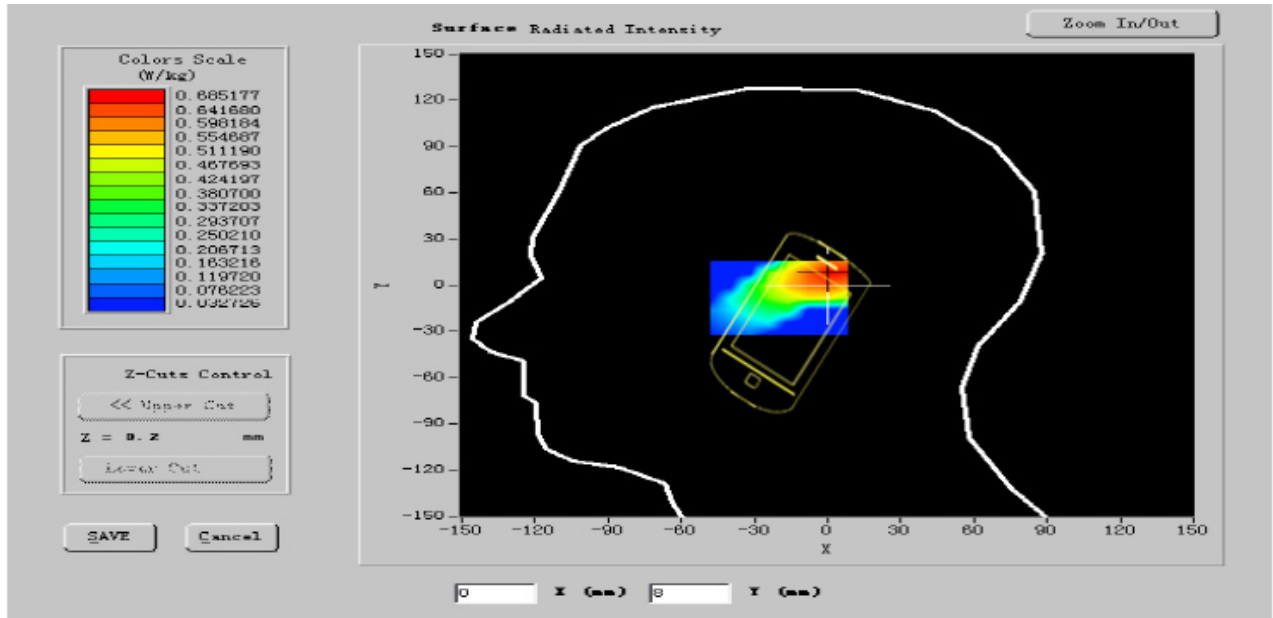
ConvF:

51.18,53.87,70.48

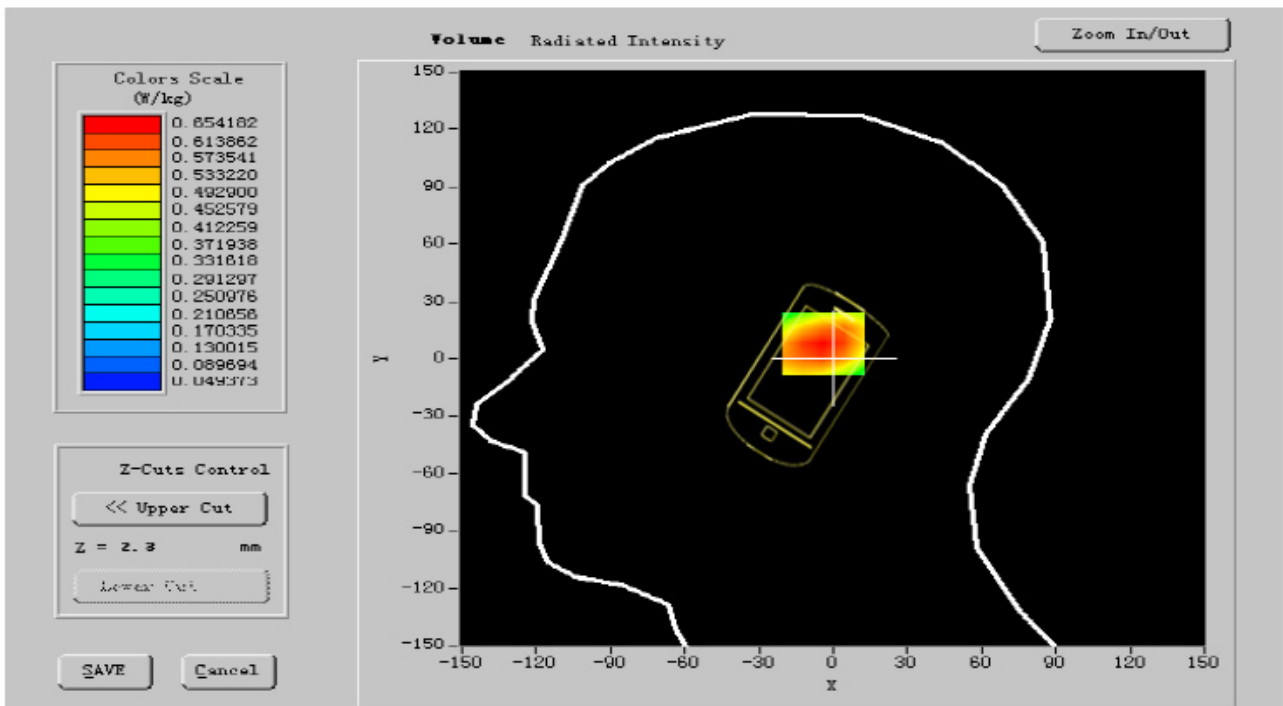
Crest factor:

1:1

## SURFACE SAR



## VOLUME SAR



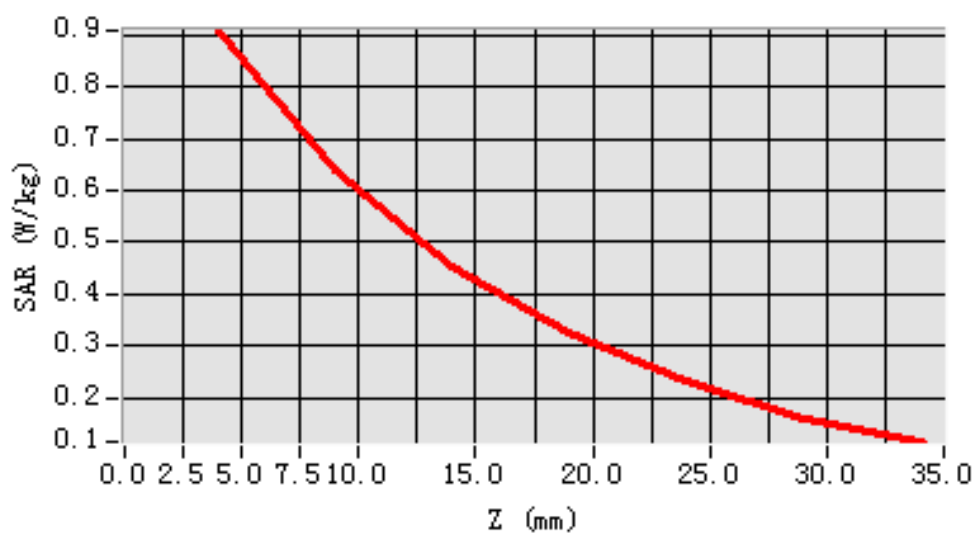


**Maximum location: X=-13.00, Y=-3.00**

SAR 10g (W/Kg)	0.062140
SAR 1g (W/Kg)	0.089657

**Z Axis Scan**

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





## MEASUREMENT 3

**Date of measurement: 04/14/2011****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>	802.11b
<b>Channels</b>	High
<b>Signal</b>	wireless

### B. Instrumentations.

<b>PC</b>	<b>HP (Pentium(R) V3.06GHz, SN:375052-AA1)</b>	<b>Calibrated: 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: 03/24/2012</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: 03/24/2012</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: 03/24/2012</b>
<b>Probe</b>	<b>Antennessa (SN:SN_1109_EP_100)</b>	<b>Calibration Due: 05/04/2011</b>
<b>DIPOLE 2450</b>	<b>Antennessa (DIPJ37,SN 48/05)</b>	<b>Calibration Due: 10/09/2011</b>
<b>Phantom</b>	<b>Antennessa (SN:SN41_05_SAM29)</b>	<b>Calibrated: N/A</b>
<b>Liquid</b>	<b>Antennessa</b>	<b>Calibrated: N/A</b>
<b>Measurement SW</b>	<b>OPEN SAR V2.1</b>	<b>Calibrated: N/A</b>

### C. SAR Measurement Results

<b>Frequency (MHz)</b>	<b>2462.000000</b>
<b>Relative permittivity (real part)</b>	<b>40.413362</b>
<b>Relative permittivity (imaginary part)</b>	<b>13.350612</b>
<b>Conductivity (S/m)</b>	<b>1.858677</b>
<b>Variation (%)</b>	<b>-0.300000</b>
<b>Ambient Temperature:</b>	<b>21 °C</b>
<b>Liquid Temperature:</b>	<b>20 °C</b>
<b>ConvF:</b>	<b>51.18,53.87,70.48</b>

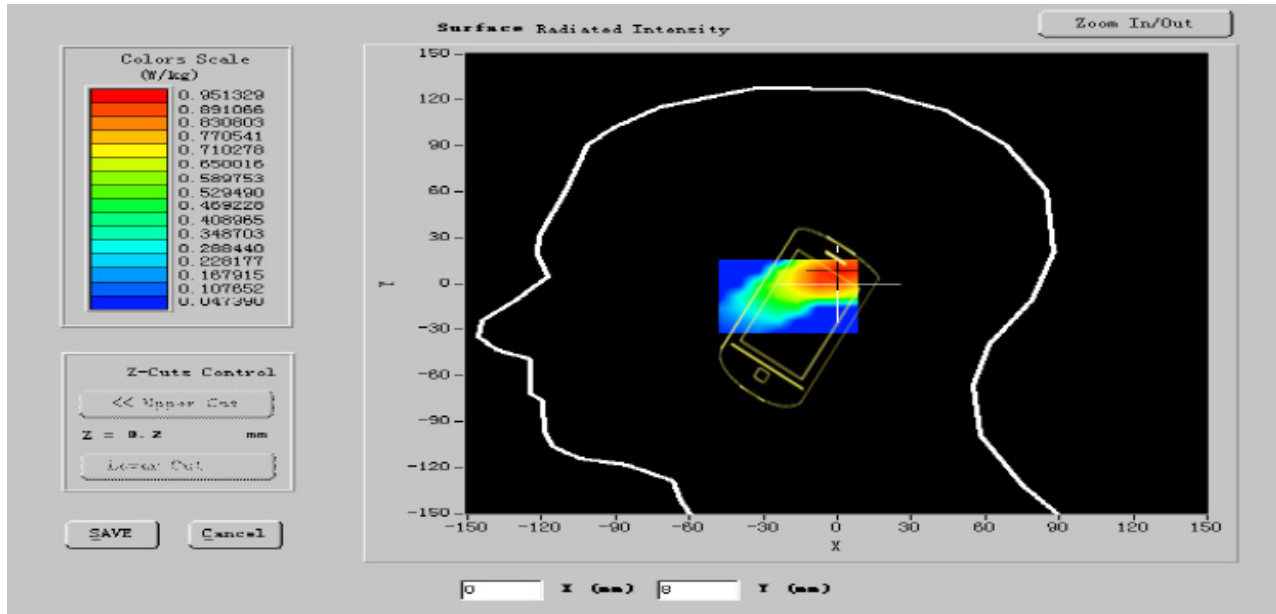




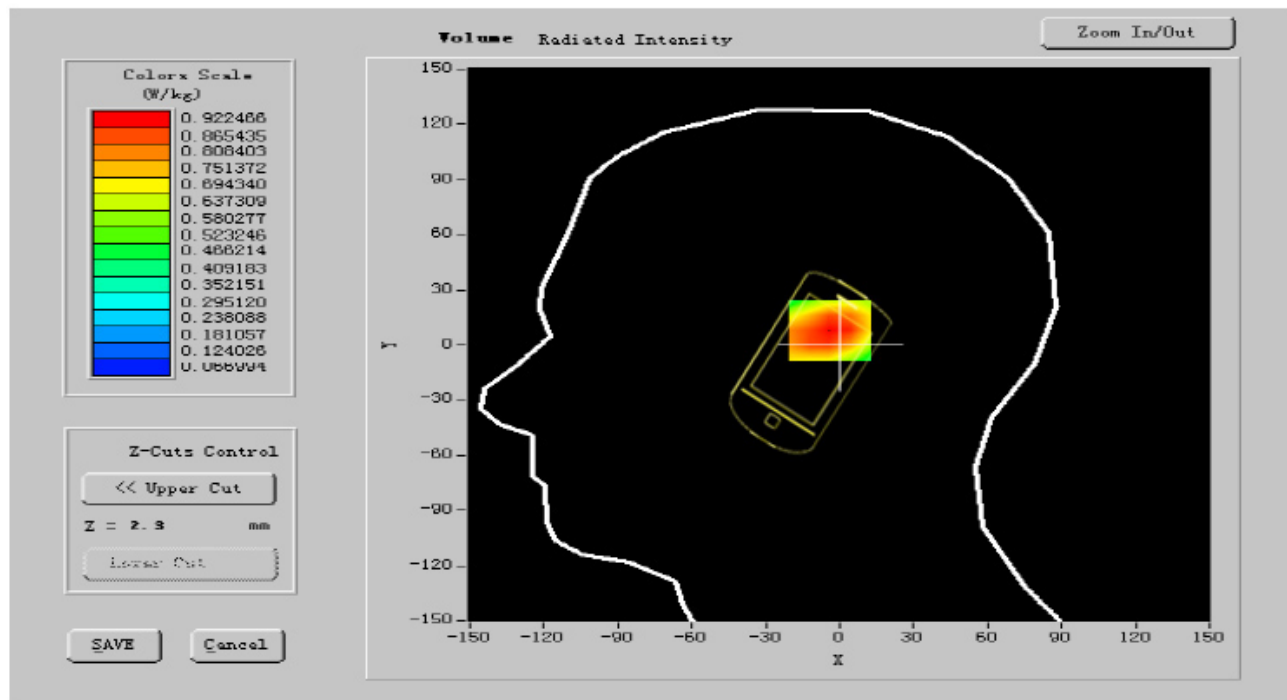
Crest factor:

1:1

## SURFACE SAR



## VOLUME SAR



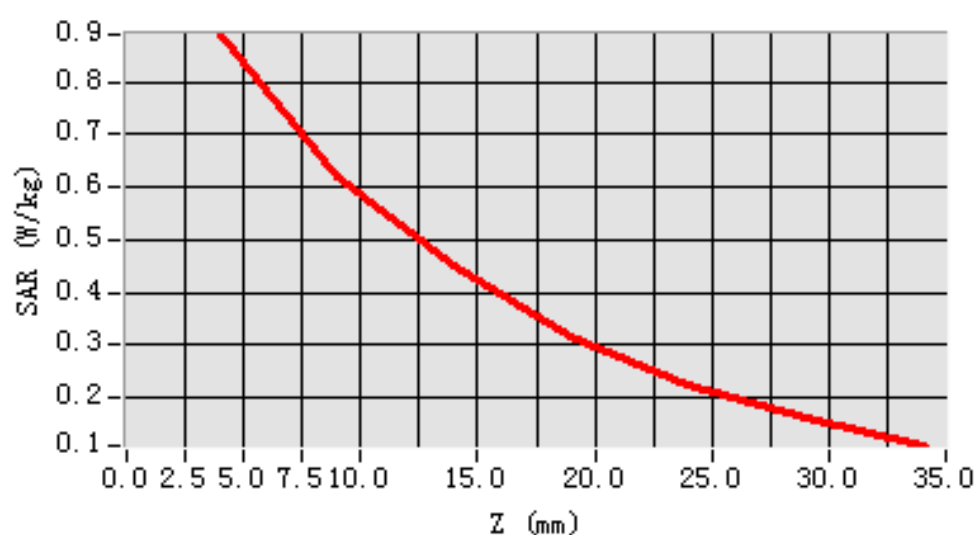


**Maximum location: X=-13.00, Y=-3.00**

SAR 10g (W/Kg)	0.068412
SAR 1g (W/Kg)	0.116581

**Z Axis Scan**

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





## MEASUREMENT 4

**Date of measurement: 04/14/2011****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>	802.11b
<b>Channels</b>	Low
<b>Signal</b>	wireless

### B. Instrumentations.

<b>PC</b>	<b>HP (Pentium(R) V3.06GHz, SN:375052-AA1)</b>	<b>Calibrated: 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: 03/24/2012</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: 03/24/2012</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: 03/24/2012</b>
<b>Probe</b>	<b>Antennessa (SN:SN_1109_EP_100)</b>	<b>Calibration Due: 05/04/2011</b>
<b>DIPOLE 2450</b>	<b>Antennessa (DIPJ37,SN 48/05)</b>	<b>Calibration Due: 10/09/2011</b>
<b>Phantom</b>	<b>Antennessa (SN:SN41_05_SAM29)</b>	<b>Calibrated: N/A</b>
<b>Liquid</b>	<b>Antennessa</b>	<b>Calibrated: N/A</b>
<b>Measurement SW</b>	<b>OPEN SAR V2.1</b>	<b>Calibrated: N/A</b>

### C. SAR Measurement Results

<b>Frequency (MHz)</b>	<b>2412.000000</b>
<b>Relative permittivity (real part)</b>	<b>40.413006</b>
<b>Relative permittivity (imaginary part)</b>	<b>13.299880</b>
<b>Conductivity (S/m)</b>	<b>1.86024</b>
<b>Variation (%)</b>	<b>-1.400000</b>
<b>Ambient Temperature:</b>	<b>21 °C</b>
<b>Liquid Temperature:</b>	<b>20 °C</b>



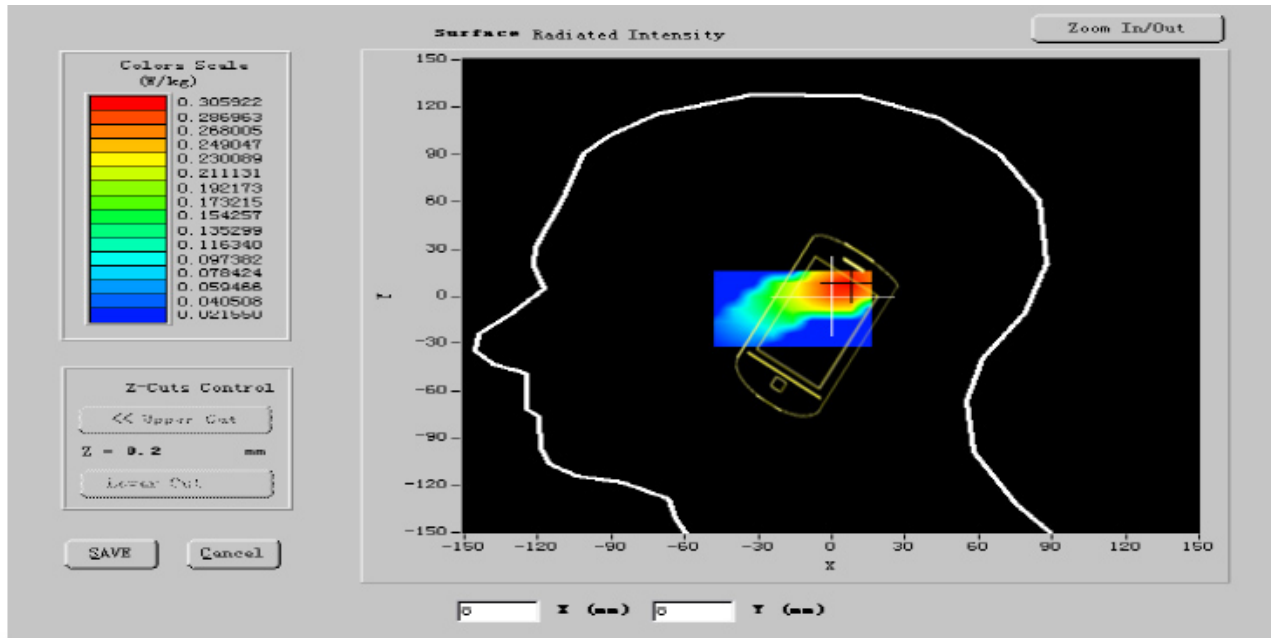
ConvF:

51.18,53.87,70.48

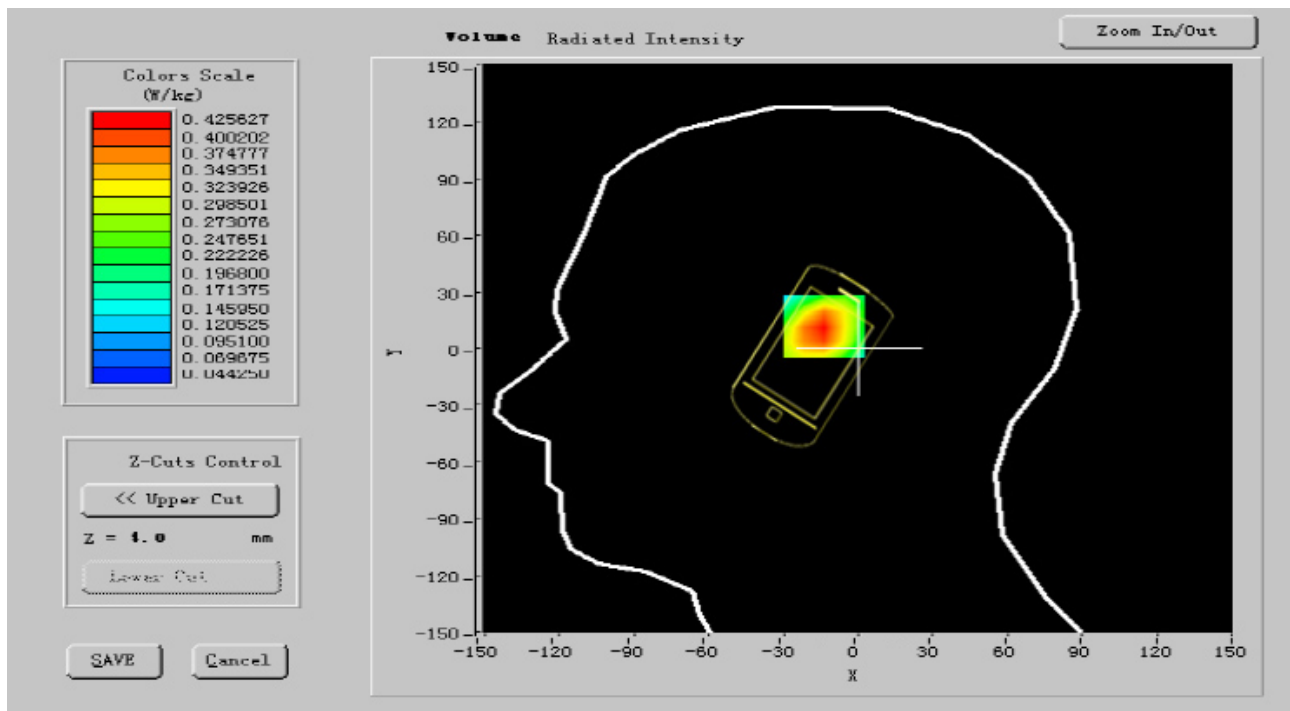
Crest factor:

1:1

## SURFACE SAR



## VOLUME SAR



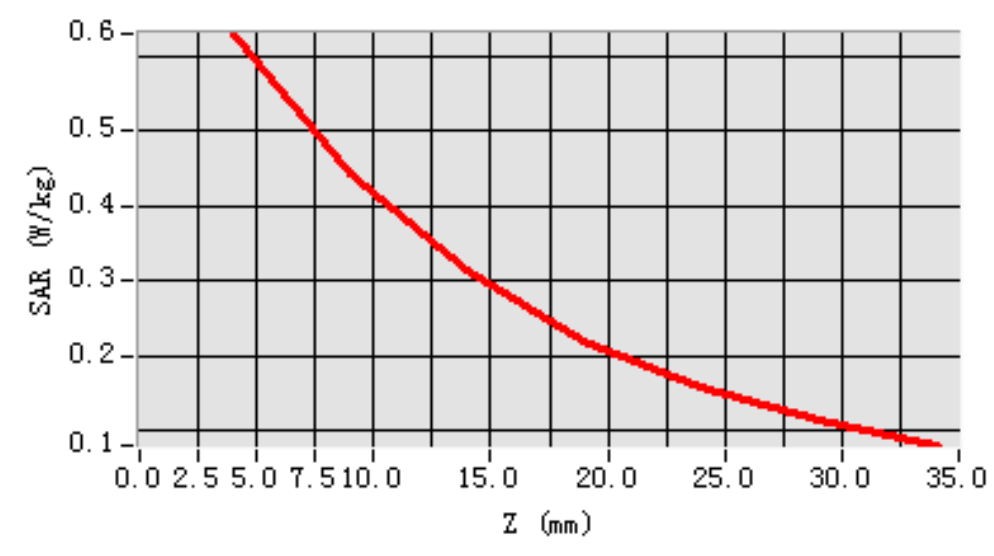


**Maximum location: X=-13.00, Y=-3.00**

SAR 10g (W/Kg)	0.078923
SAR 1g (W/Kg)	0.119858

**Z Axis Scan**

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





## MEASUREMENT 5

**Date of measurement: 04/14/2011****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>	802.11b
<b>Channels</b>	Middle
<b>Signal</b>	wireless

### B. Instrumentations.

<b>PC</b>	<b>HP (Pentium(R) V3.06GHz, SN:375052-AA1)</b>	<b>Calibrated: 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: 03/24/2012</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: 03/24/2012</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: 03/24/2012</b>
<b>Probe</b>	<b>Antennessa (SN:SN_1109_EP_100)</b>	<b>Calibration Due: 05/04/2011</b>
<b>DIPOLE 2450</b>	<b>Antennessa (DIPJ37,SN 48/05)</b>	<b>Calibration Due: 10/09/2011</b>
<b>Phantom</b>	<b>Antennessa (SN:SN41_05_SAM29)</b>	<b>Calibrated: N/A</b>
<b>Liquid</b>	<b>Antennessa</b>	<b>Calibrated: N/A</b>
<b>Measurement SW</b>	<b>OPEN SAR V2.1</b>	<b>Calibrated: N/A</b>

### C. SAR Measurement Results

<b>Frequency (MHz)</b>	<b>2437.000000</b>
<b>Relative permittivity (real part)</b>	<b>40.412031</b>
<b>Relative permittivity (imaginary part)</b>	<b>13.346801</b>
<b>Conductivity (S/m)</b>	<b>1.860344</b>
<b>Variation (%)</b>	<b>-0.450000</b>
<b>Ambient Temperature:</b>	<b>21 °C</b>
<b>Liquid Temperature:</b>	<b>20 °C</b>



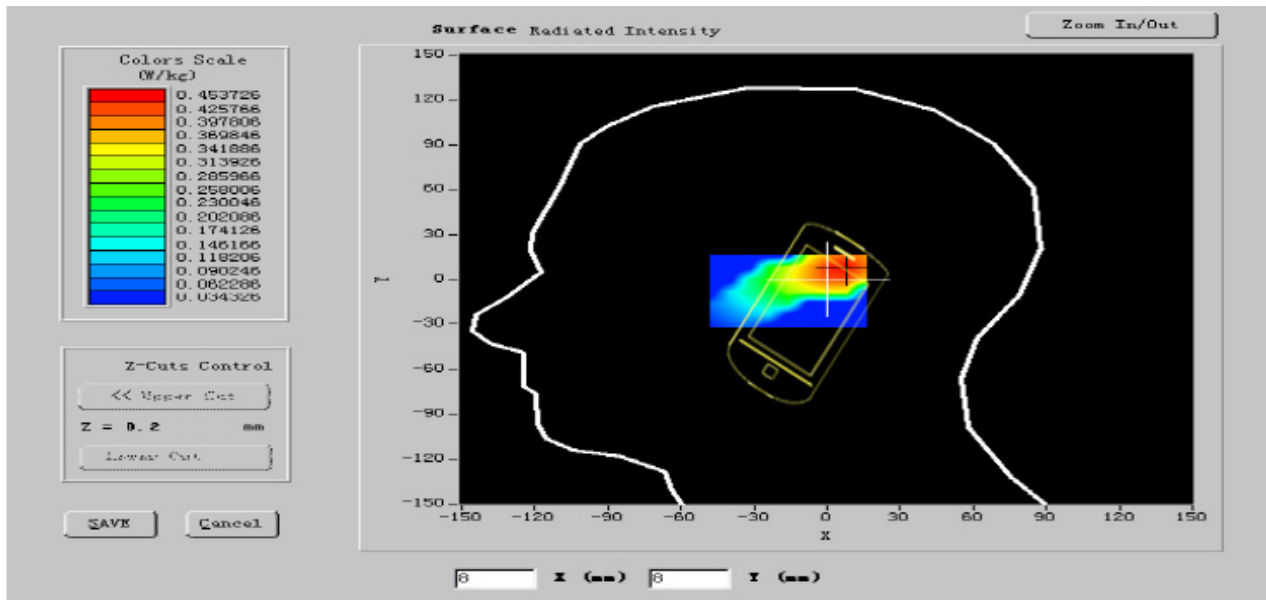
ConvF:

51.18,53.87,70.48

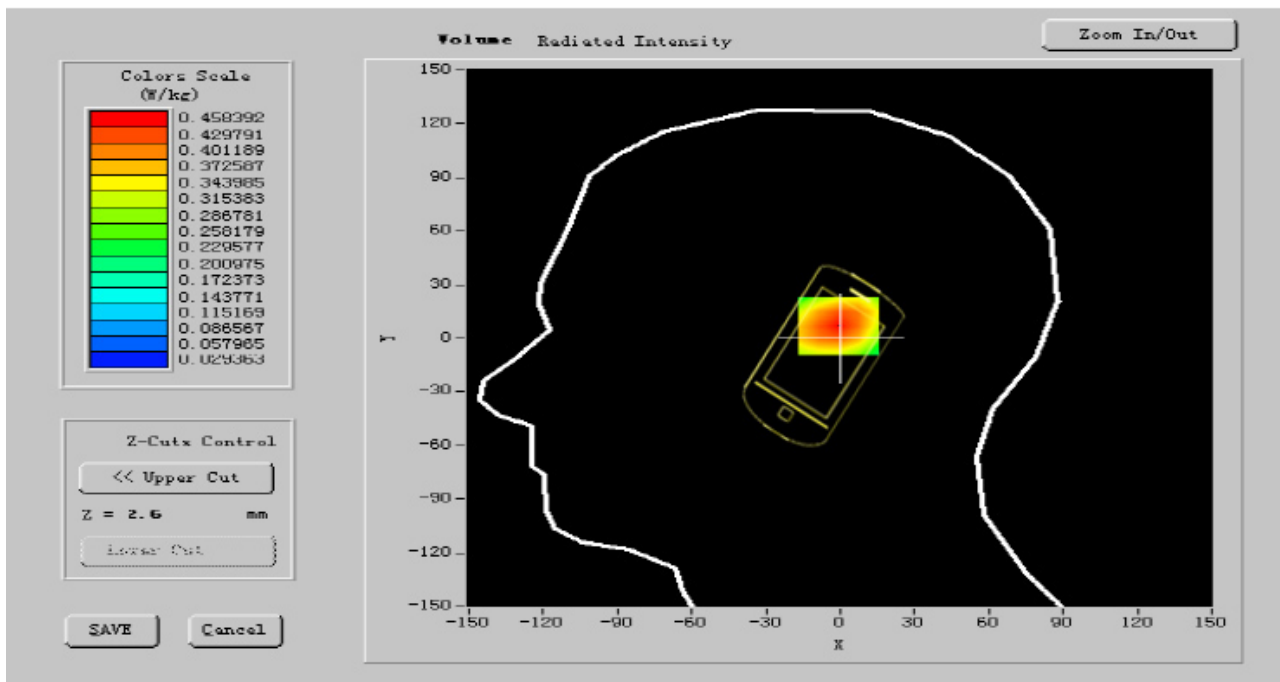
Crest factor:

1:1

## SURFACE SAR



## VOLUME SAR



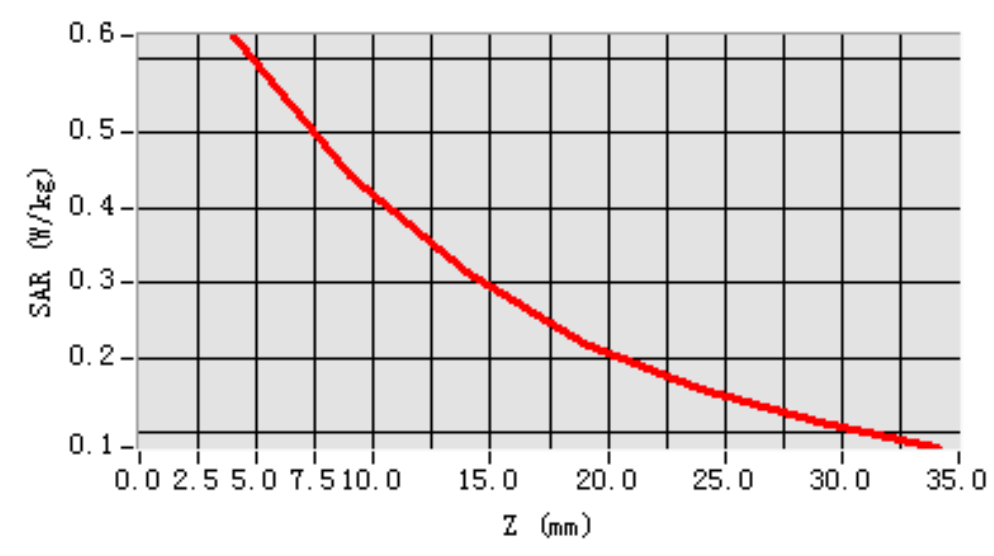


**Maximum location: X=-13.00, Y=-3.00**

SAR 10g (W/Kg)	0.098746
SAR 1g (W/Kg)	0.135871

**Z Axis Scan**

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







## MEASUREMENT 6

**Date of measurement: 04/14/2011****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>	802.11b
<b>Channels</b>	High
<b>Signal</b>	wireless

### B. Instrumentations.

<b>PC</b>	<b>HP (Pentium(R) V3.06GHz, SN:375052-AA1)</b>	<b>Calibrated: 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: 03/24/2012</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: 03/24/2012</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: 03/24/2012</b>
<b>Probe</b>	<b>Antennessa (SN:SN_1109_EP_100)</b>	<b>Calibration Due: 05/04/2011</b>
<b>DIPOLE 2450</b>	<b>Antennessa (DIPJ37,SN 48/05)</b>	<b>Calibration Due: 10/09/2011</b>
<b>Phantom</b>	<b>Antennessa (SN:SN41_05_SAM29)</b>	<b>Calibrated: N/A</b>
<b>Liquid</b>	<b>Antennessa</b>	<b>Calibrated: N/A</b>
<b>Measurement SW</b>	<b>OPEN SAR V2.1</b>	<b>Calibrated: N/A</b>

### C. SAR Measurement Results

<b>Frequency (MHz)</b>	<b>2462.000000</b>
<b>Relative permittivity (real part)</b>	<b>40.413000</b>
<b>Relative permittivity (imaginary part)</b>	<b>13.353144</b>
<b>Conductivity (S/m)</b>	<b>1.860050</b>
<b>Variation (%)</b>	<b>-1.500000</b>
<b>Ambient Temperature:</b>	<b>21 °C</b>
<b>Liquid Temperature:</b>	<b>20 °C</b>



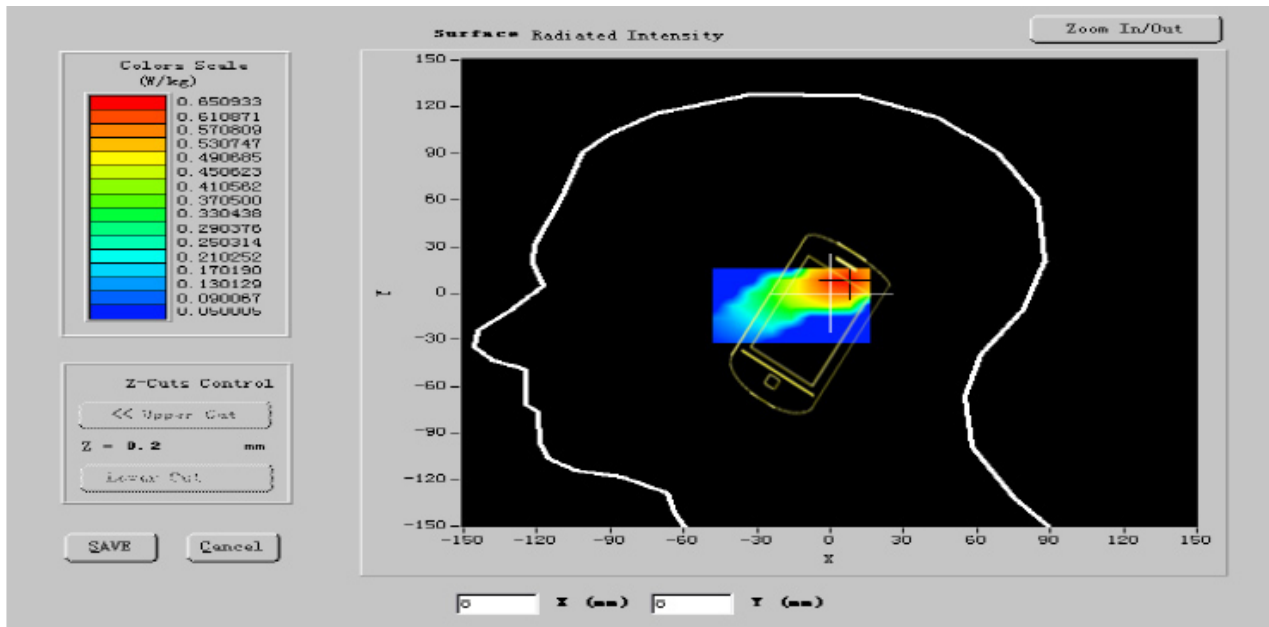
ConvF:

51.18,53.87,70.48

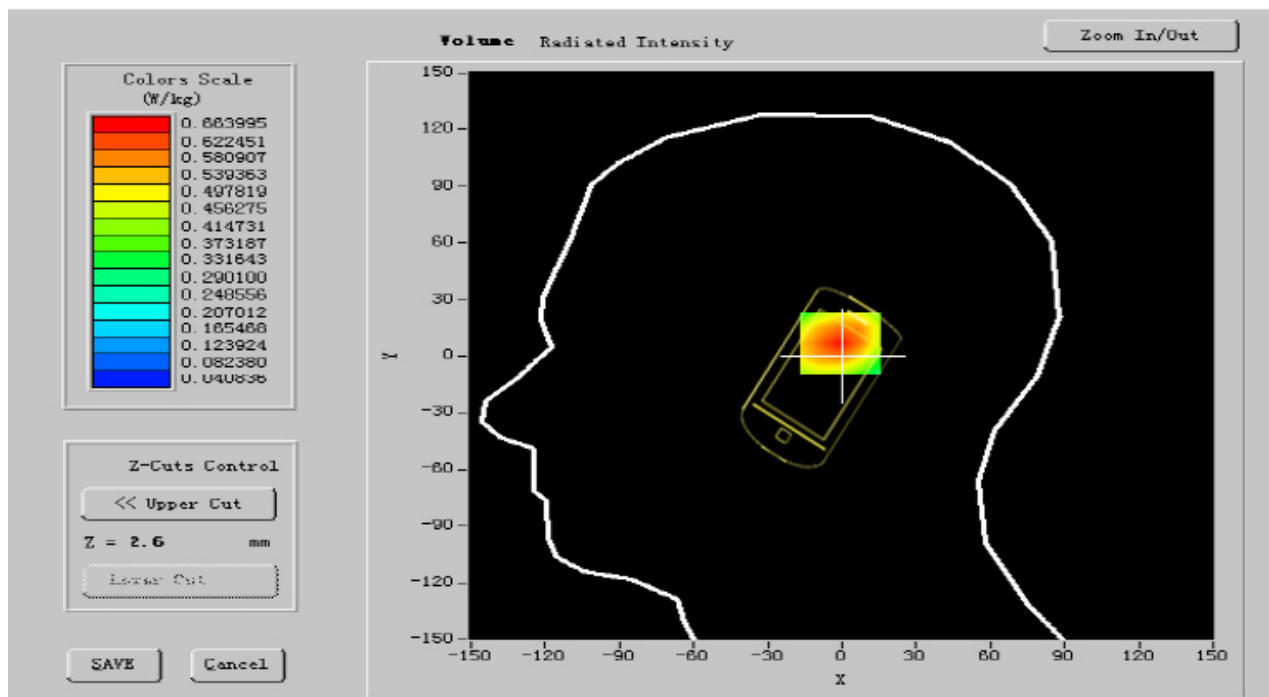
Crest factor:

1:1

## SURFACE SAR



## VOLUME SAR



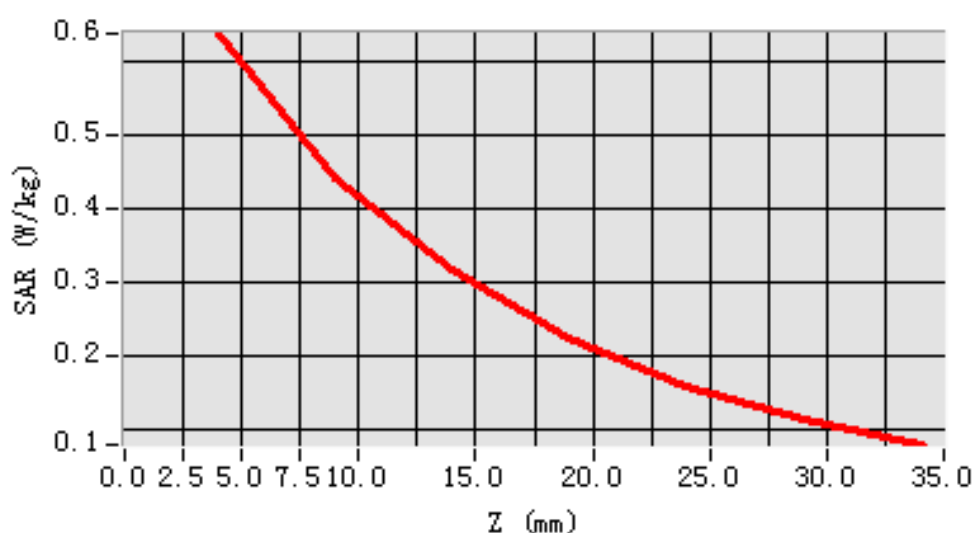


**Maximum location: X=-13.00, Y=-3.00**

SAR 10g (W/Kg)	0.079841
SAR 1g (W/Kg)	0.168740

**Z Axis Scan**

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





## MEASUREMENT 7

**Date of measurement: 04/14/2011****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>	802.11b
<b>Channels</b>	Low
<b>Signal</b>	wireless

### B. Instrumentations.

<b>PC</b>	<b>HP (Pentium(R) V3.06GHz, SN:375052-AA1)</b>	<b>Calibrated: 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: 03/24/2012</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: 03/24/2012</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: 03/24/2012</b>
<b>Probe</b>	<b>Antennessa (SN:SN_1109_EP_100)</b>	<b>Calibration Due: 05/04/2011</b>
<b>DIPOLE 2450</b>	<b>Antennessa (DIPJ37,SN 48/05)</b>	<b>Calibration Due: 10/09/2011</b>
<b>Phantom</b>	<b>Antennessa (SN:SN41_05_SAM29)</b>	<b>Calibrated: N/A</b>
<b>Liquid</b>	<b>Antennessa</b>	<b>Calibrated: N/A</b>
<b>Measurement SW</b>	<b>OPEN SAR V2.1</b>	<b>Calibrated: N/A</b>

### C. SAR Measurement Results

<b>Frequency (MHz)</b>	<b>2412.000000</b>
<b>Relative permittivity (real part)</b>	<b>40.411885</b>
<b>Relative permittivity (imaginary part)</b>	<b>13.360125</b>
<b>Conductivity (S/m)</b>	<b>1.870004</b>
<b>Variation (%)</b>	<b>0.300000</b>
<b>Ambient Temperature:</b>	<b>21 °C</b>
<b>Liquid Temperature:</b>	<b>20 °C</b>



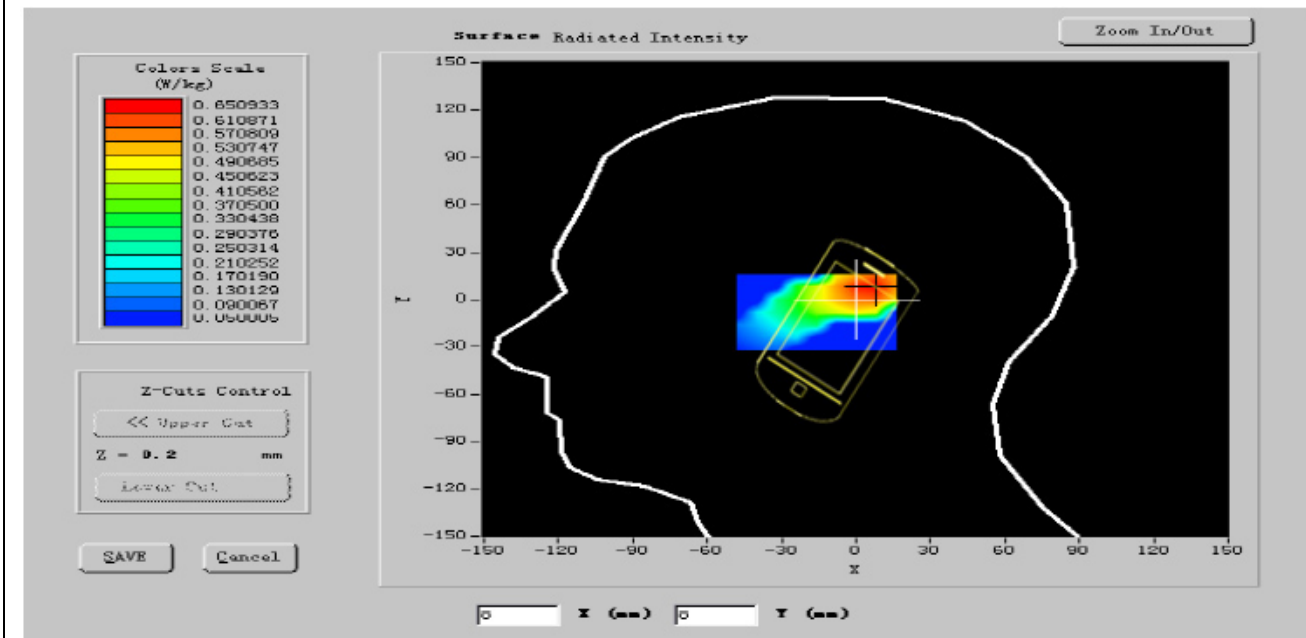
ConvF:

51.18,53.87,70.48

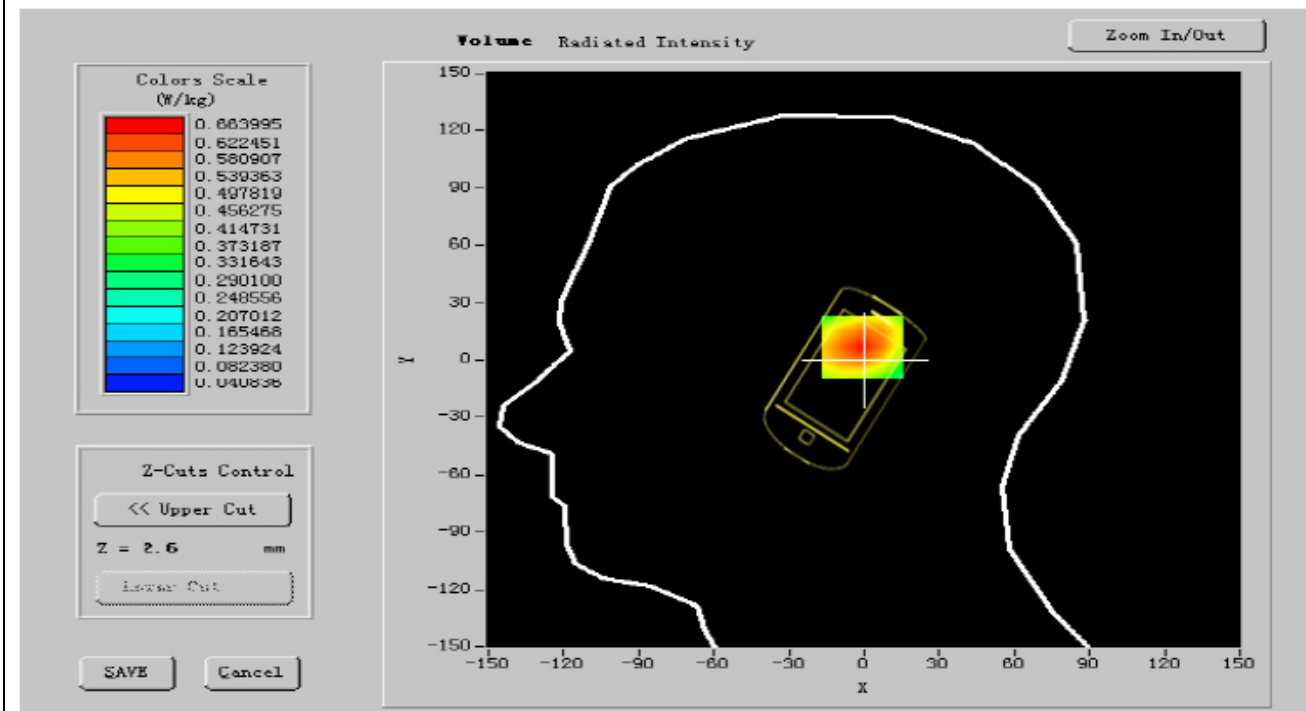
Crest factor:

1:1

## SURFACE SAR



## VOLUME SAR



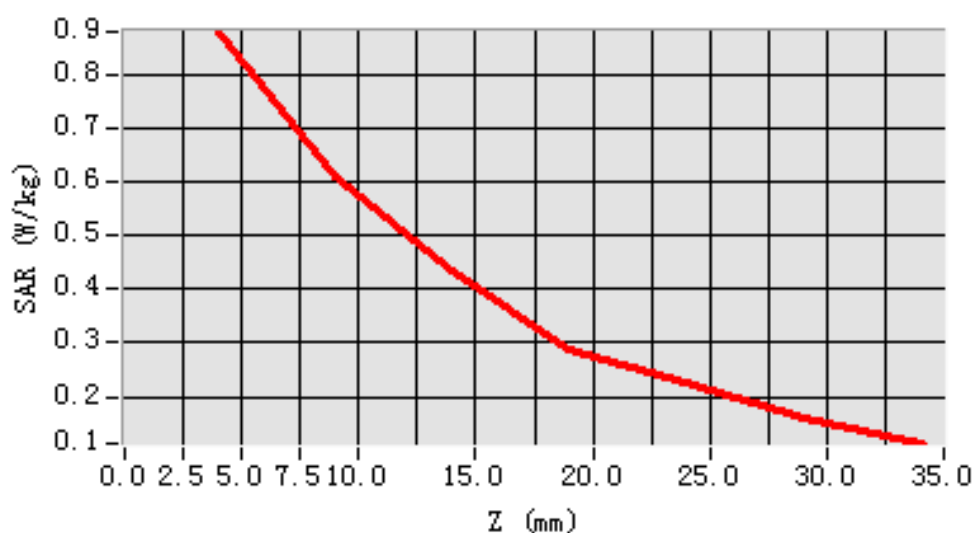


**Maximum location: X=-13.00, Y=-3.00**

SAR 10g (W/Kg)	0.088745
SAR 1g (W/Kg)	0.145866

**Z Axis Scan**

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





## MEASUREMENT 8

**Date of measurement: 04/14/2011**

**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>	802.11b
<b>Channels</b>	Middle
<b>Signal</b>	wireless

### B. Instrumentations.

<b>PC</b>	<b>HP (Pentium(R) V3.06GHz, SN:375052-AA1)</b>	<b>Calibrated: 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: 03/24/2012</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: 03/24/2012</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: 03/24/2012</b>
<b>Probe</b>	<b>Antennessa (SN:SN_1109_EP_100)</b>	<b>Calibration Due: 05/04/2011</b>
<b>DIPOLE 2450</b>	<b>Antennessa (DIPJ37,SN 48/05)</b>	<b>Calibration Due: 10/09/2011</b>
<b>Phantom</b>	<b>Antennessa (SN:SN41_05_SAM29)</b>	<b>Calibrated: N/A</b>
<b>Liquid</b>	<b>Antennessa</b>	<b>Calibrated: N/A</b>
<b>Measurement SW</b>	<b>OPEN SAR V2.1</b>	<b>Calibrated: N/A</b>

### C. SAR Measurement Results

<b>Frequency (MHz)</b>	<b>2437.000000</b>
<b>Relative permittivity (real part)</b>	<b>40.423570</b>
<b>Relative permittivity (imaginary part)</b>	<b>13.361181</b>
<b>Conductivity (S/m)</b>	<b>1.853301</b>
<b>Variation (%)</b>	<b>1.400000</b>
<b>Ambient Temperature:</b>	<b>21 °C</b>
<b>Liquid Temperature:</b>	<b>20 °C</b>



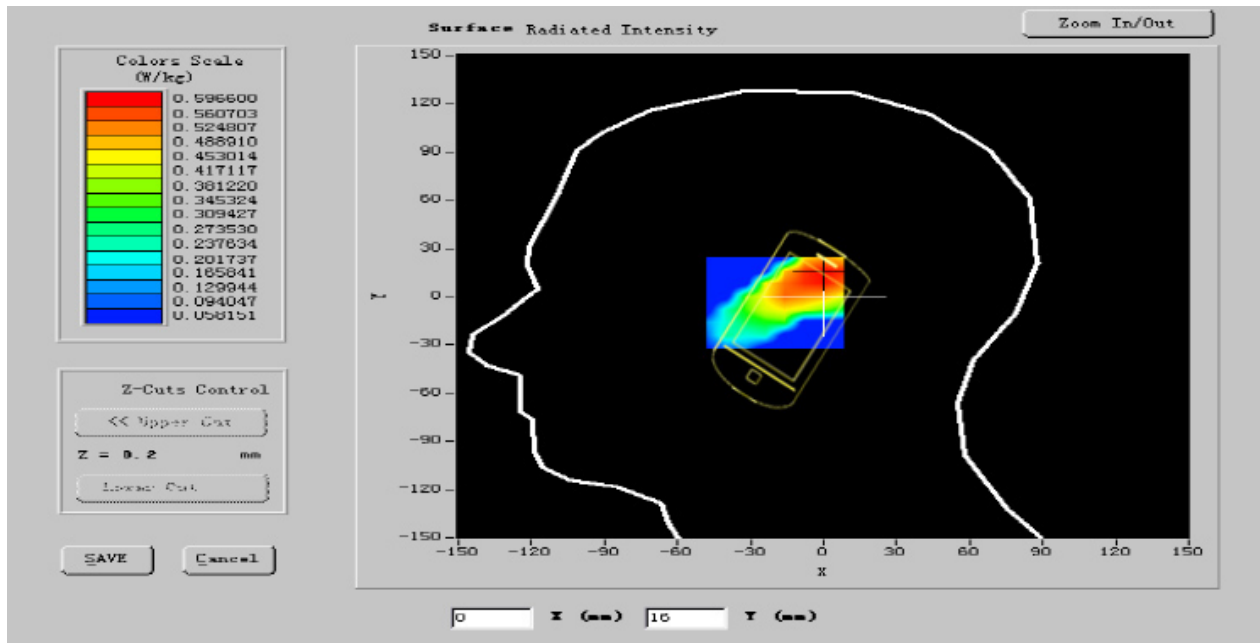
ConvF:

51.18,53.87,70.48

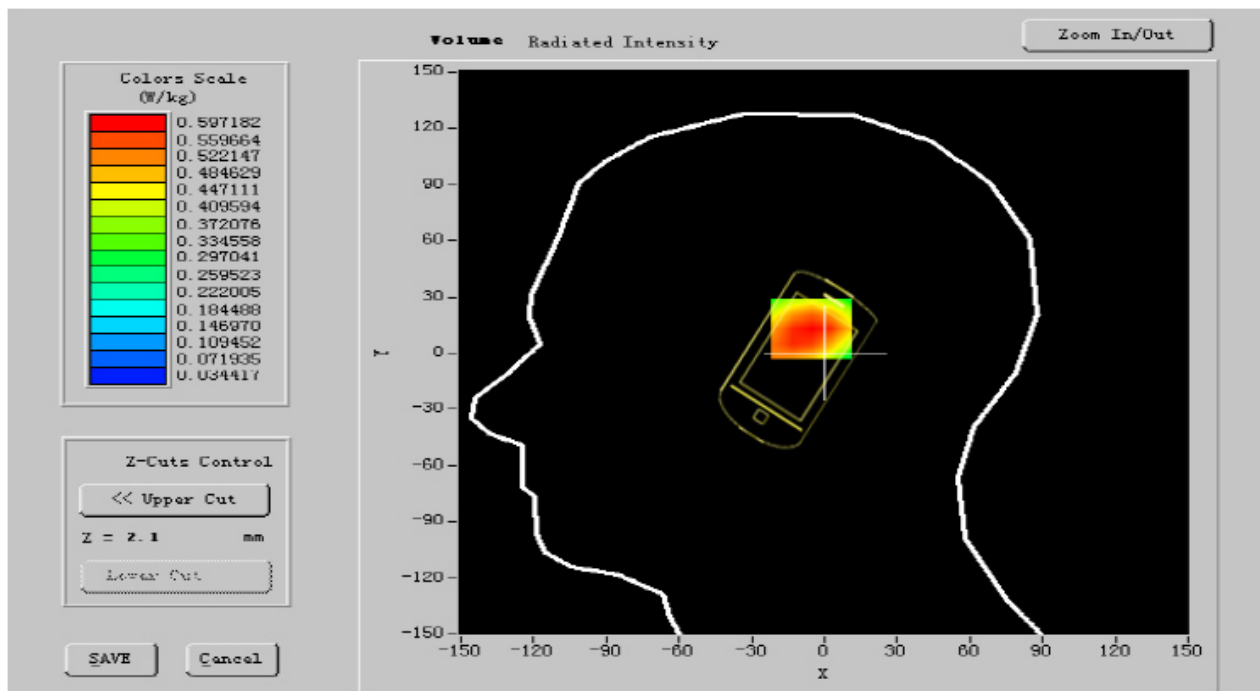
Crest factor:

1:1

## SURFACE SAR



## VOLUME SAR





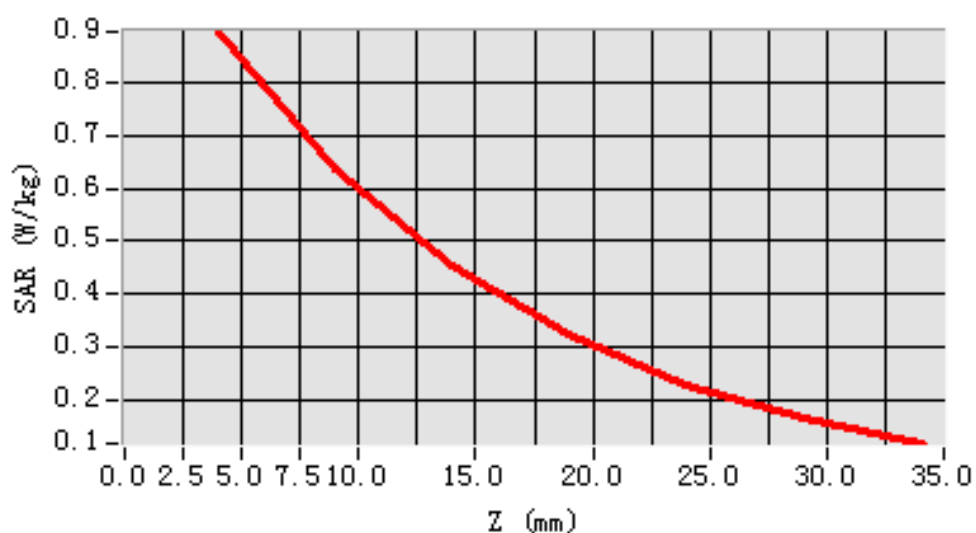


**Maximum location: X=-13.00, Y=-3.00**

SAR 10g (W/Kg)	0.121024
SAR 1g (W/Kg)	0.198741

**Z Axis Scan**

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





## MEASUREMENT 9

**Date of measurement: 04/14/2011****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>	802.11b
<b>Channels</b>	High
<b>Signal</b>	wireless

### B. Instrumentations.

<b>PC</b>	<b>HP (Pentium(R) V3.06GHz, SN:375052-AA1)</b>	<b>Calibrated: 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: 03/24/2012</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: 03/24/2012</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: 03/24/2012</b>
<b>Probe</b>	<b>Antennessa (SN:SN_1109_EP_100)</b>	<b>Calibration Due: 05/04/2011</b>
<b>DIPOLE 2450</b>	<b>Antennessa (DIPJ37,SN 48/05)</b>	<b>Calibration Due: 10/09/2011</b>
<b>Phantom</b>	<b>Antennessa (SN:SN41_05_SAM29)</b>	<b>Calibrated: N/A</b>
<b>Liquid</b>	<b>Antennessa</b>	<b>Calibrated: N/A</b>
<b>Measurement SW</b>	<b>OPEN SAR V2.1</b>	<b>Calibrated: N/A</b>

### C. SAR Measurement Results

<b>Frequency (MHz)</b>	<b>2462.000000</b>
<b>Relative permittivity (real part)</b>	<b>40.216348</b>
<b>Relative permittivity (imaginary part)</b>	<b>13.369120</b>
<b>Conductivity (S/m)</b>	<b>1.856720</b>
<b>Variation (%)</b>	<b>0.500000</b>
<b>Ambient Temperature:</b>	<b>21 °C</b>
<b>Liquid Temperature:</b>	<b>20 °C</b>



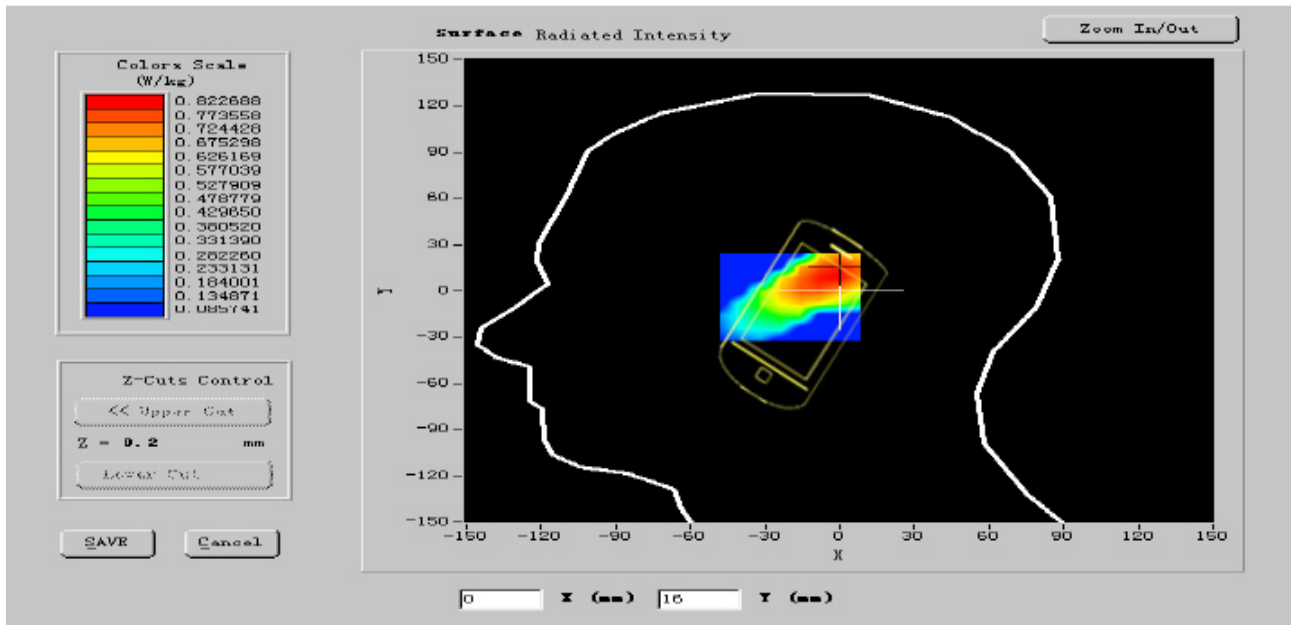
ConvF:

51.18,53.87,70.48

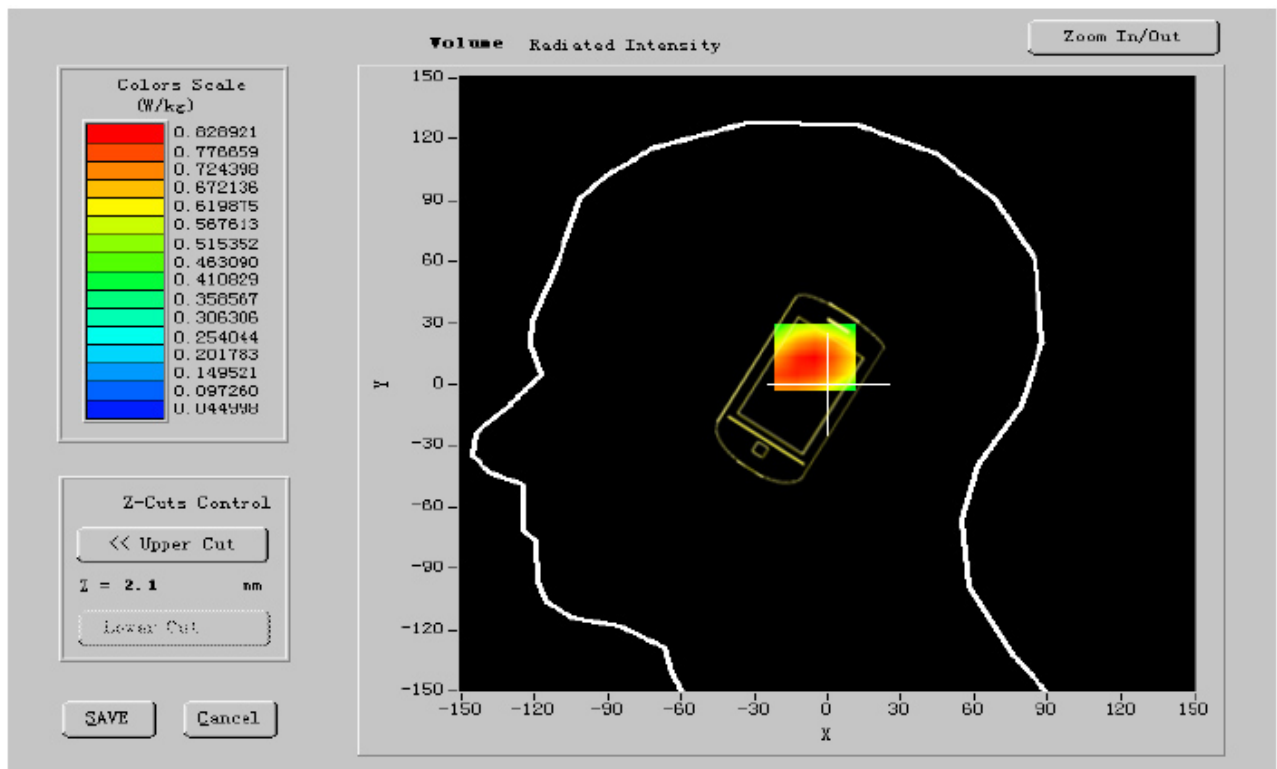
Crest factor:

1:1

## SURFACE SAR



## VOLUME SAR



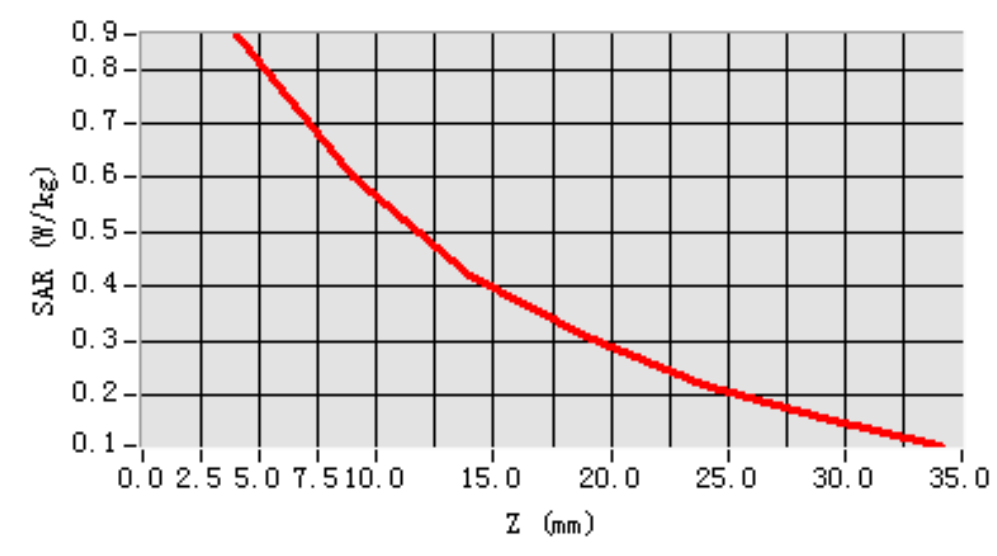


**Maximum location: X=-13.00, Y=-3.00**

SAR 10g (W/Kg)	0.134770
SAR 1g (W/Kg)	0.169870

**Z Axis Scan**

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





## MEASUREMENT 10

**Date of measurement: 04/14/2011****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>	802.11b
<b>Channels</b>	Low
<b>Signal</b>	wireless

### B. Instrumentations.

<b>PC</b>	<b>HP (Pentium(R) V3.06GHz, SN:375052-AA1)</b>	<b>Calibrated: 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: 03/24/2012</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: 03/24/2012</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: 03/24/2012</b>
<b>Probe</b>	<b>Antennessa (SN:SN_1109_EP_100)</b>	<b>Calibration Due: 05/04/2011</b>
<b>DIPOLE 2450</b>	<b>Antennessa (DIPJ37,SN 48/05)</b>	<b>Calibration Due: 10/09/2011</b>
<b>Phantom</b>	<b>Antennessa (SN:SN41_05_SAM29)</b>	<b>Calibrated: N/A</b>
<b>Liquid</b>	<b>Antennessa</b>	<b>Calibrated: N/A</b>
<b>Measurement SW</b>	<b>OPEN SAR V2.1</b>	<b>Calibrated: N/A</b>

### C. SAR Measurement Results

<b>Frequency (MHz)</b>	<b>2412.000000</b>
<b>Relative permittivity (real part)</b>	<b>40.411584</b>
<b>Relative permittivity (imaginary part)</b>	<b>13.360591</b>
<b>Conductivity (S/m)</b>	<b>1.858466</b>
<b>Variation (%)</b>	<b>-0.600000</b>
<b>Ambient Temperature:</b>	<b>21 °C</b>
<b>Liquid Temperature:</b>	<b>20 °C</b>



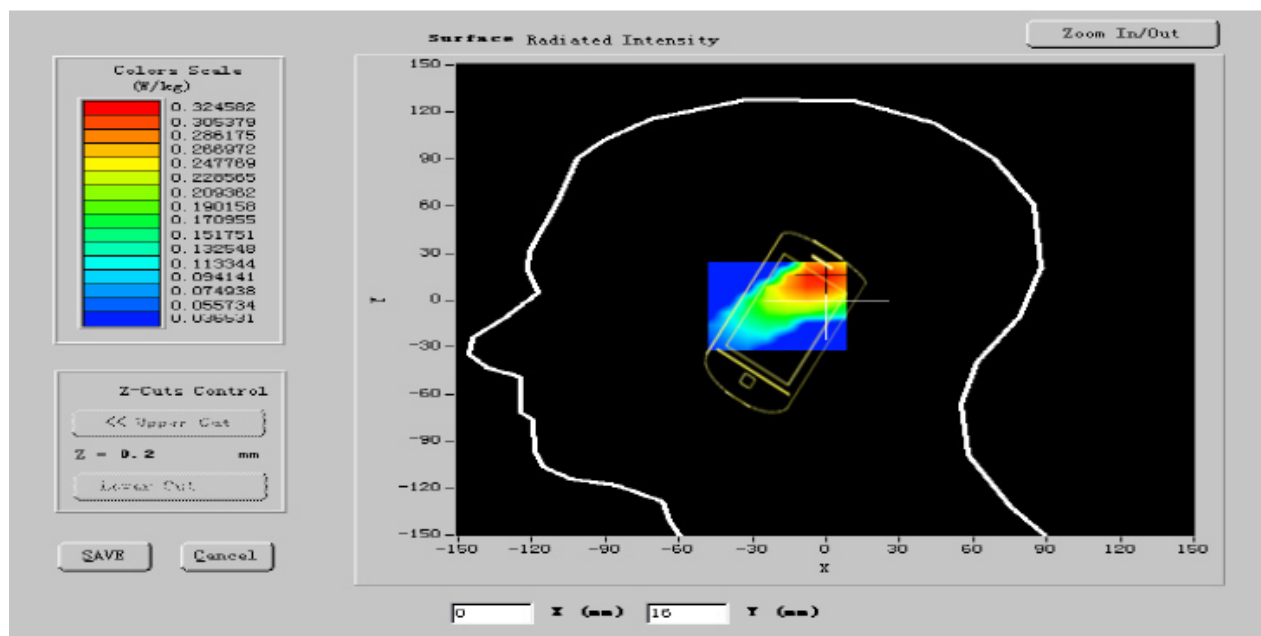
ConvF:

51.18,53.87,70.48

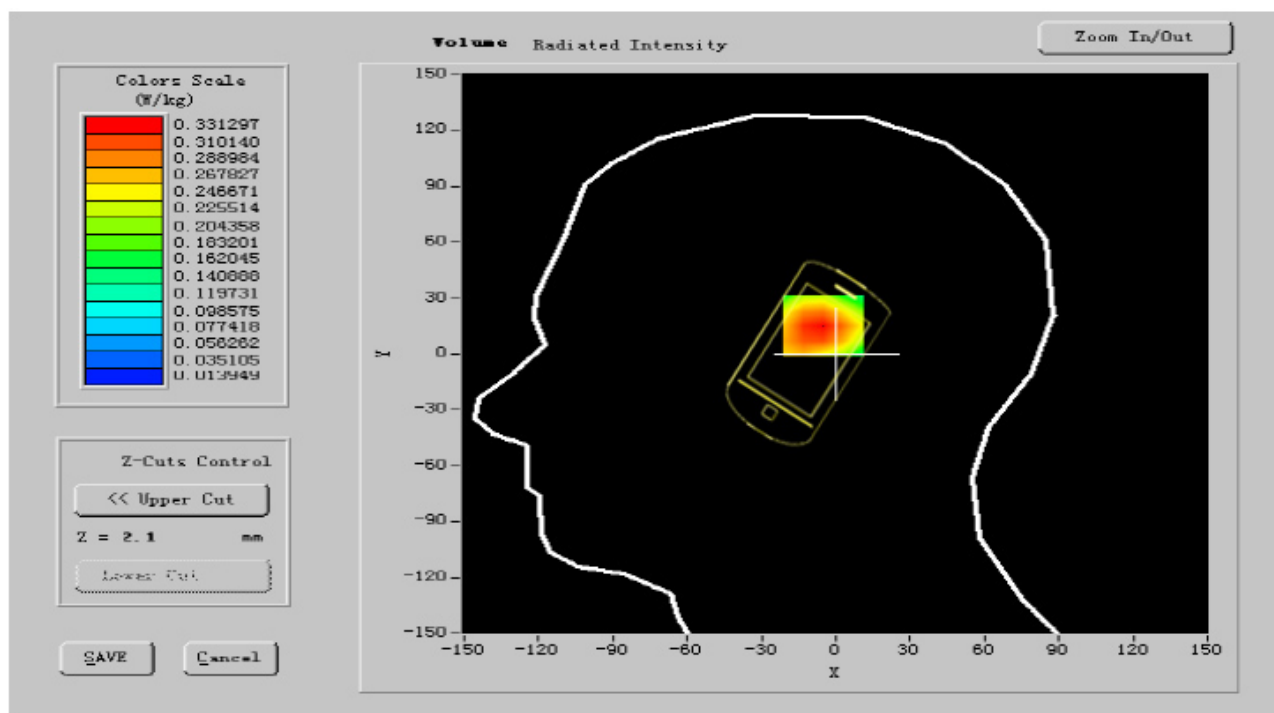
Crest factor:

1:1

## SURFACE SAR



## VOLUME SAR



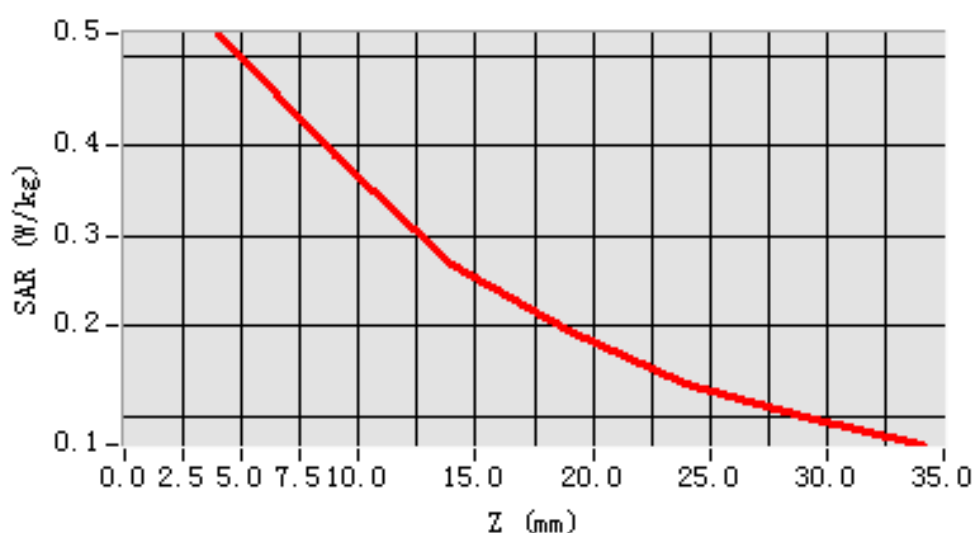


**Maximum location: X=-13.00, Y=-3.00**

SAR 10g (W/Kg)	0.135713
SAR 1g (W/Kg)	0.202986

**Z Axis Scan**

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





## MEASUREMENT 11

**Date of measurement: 04/14/2011****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>	802.11b
<b>Channels</b>	Middle
<b>Signal</b>	wireless

### B. Instrumentations.

<b>PC</b>	<b>HP (Pentium(R) V3.06GHz, SN:375052-AA1)</b>	<b>Calibrated: 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: 03/24/2012</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: 03/24/2012</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: 03/24/2012</b>
<b>Probe</b>	<b>Antennessa (SN:SN_1109_EP_100)</b>	<b>Calibration Due: 05/04/2011</b>
<b>DIPOLE 2450</b>	<b>Antennessa (DIPJ37,SN 48/05)</b>	<b>Calibration Due: 10/09/2011</b>
<b>Phantom</b>	<b>Antennessa (SN:SN41_05_SAM29)</b>	<b>Calibrated: N/A</b>
<b>Liquid</b>	<b>Antennessa</b>	<b>Calibrated: N/A</b>
<b>Measurement SW</b>	<b>OPEN SAR V2.1</b>	<b>Calibrated: N/A</b>

### C. SAR Measurement Results

<b>Frequency (MHz)</b>	<b>2437.000000</b>
<b>Relative permittivity (real part)</b>	<b>40.410335</b>
<b>Relative permittivity (imaginary part)</b>	<b>13.299614</b>
<b>Conductivity (S/m)</b>	<b>1.856470</b>
<b>Variation (%)</b>	<b>-1.200000</b>
<b>Ambient Temperature:</b>	<b>21 °C</b>
<b>Liquid Temperature:</b>	<b>20 °C</b>





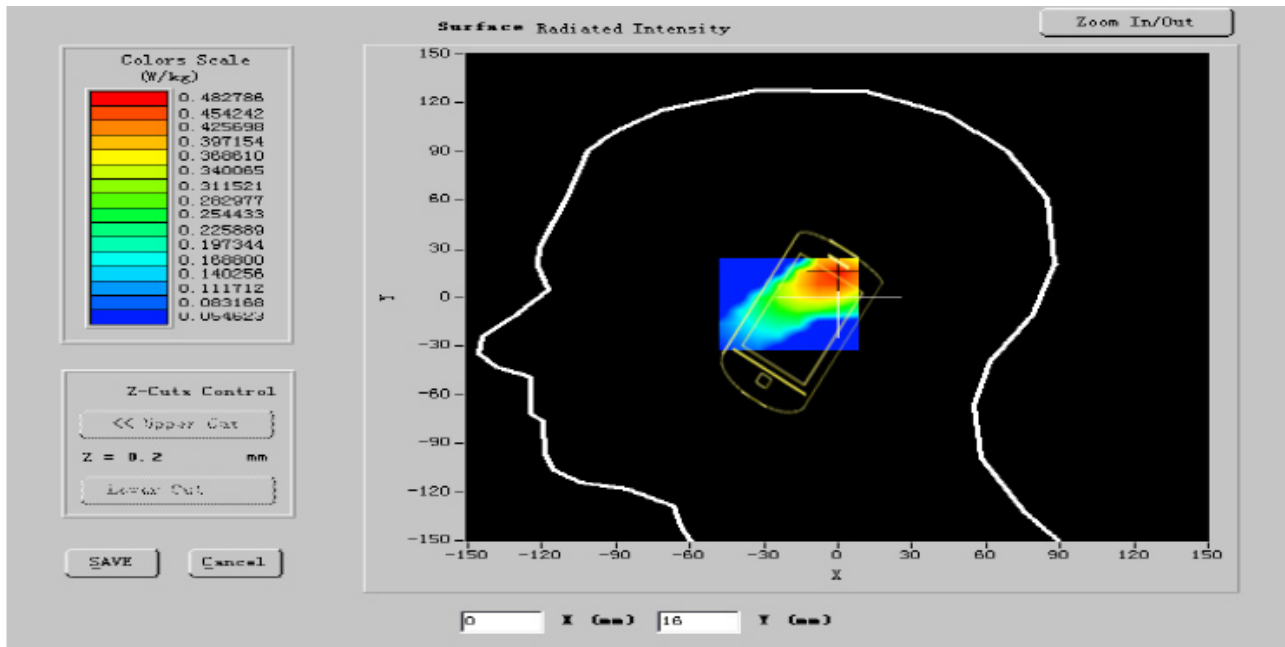
ConvF:

51.18,53.87,70.48

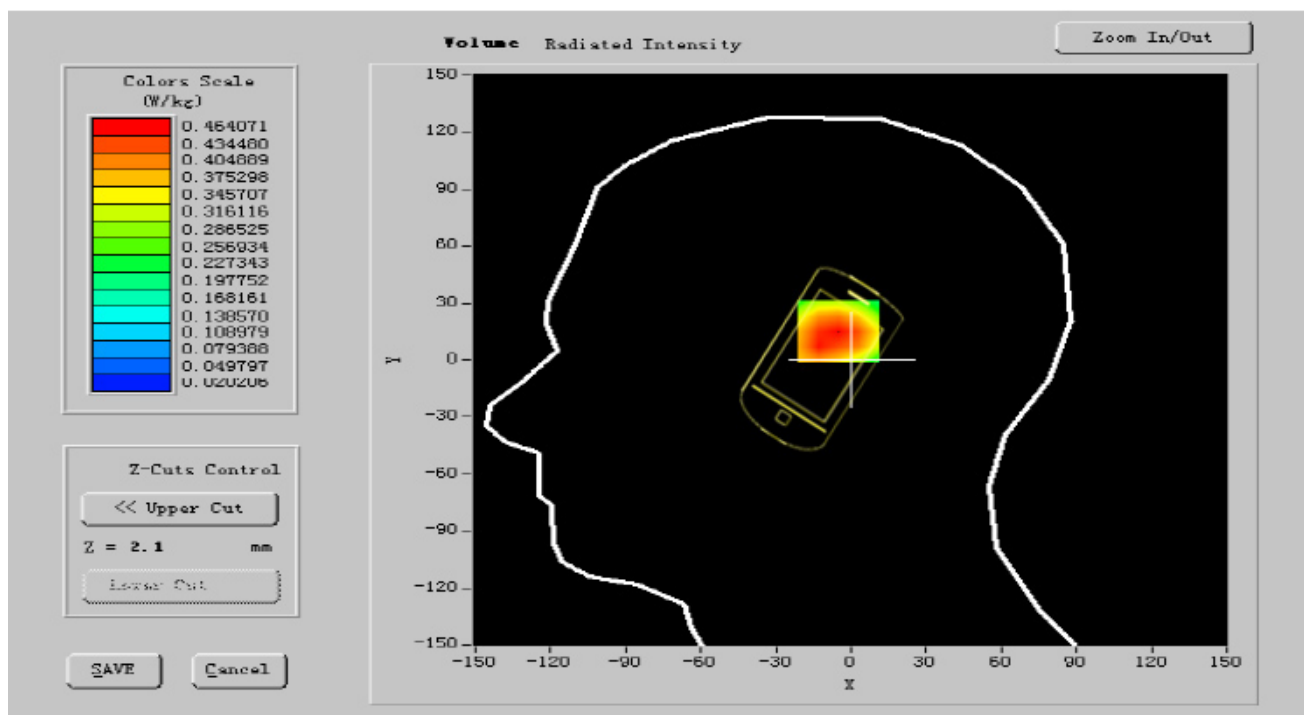
Crest factor:

1:1

## SURFACE SAR



## VOLUME SAR



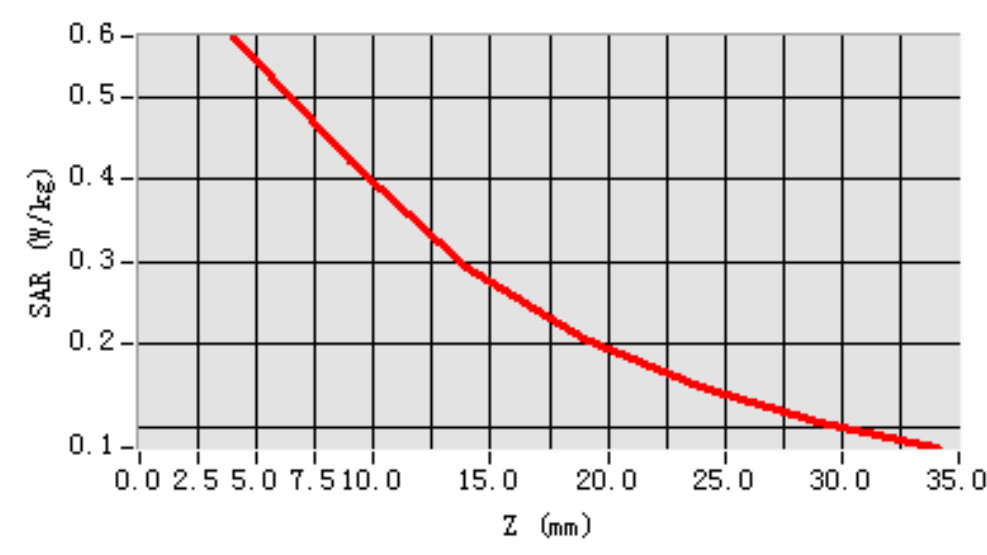


**Maximum location: X=-13.00, Y=-3.00**

SAR 10g (W/Kg)	0.132547
SAR 1g (W/Kg)	0.229873

**Z Axis Scan**

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





## MEASUREMENT 12

**Date of measurement: 04/14/2011****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>	802.11b
<b>Channels</b>	High
<b>Signal</b>	wireless

### B. Instrumentations.

<b>PC</b>	<b>HP (Pentium(R) V3.06GHz, SN:375052-AA1)</b>	<b>Calibrated: 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: 03/24/2012</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: 03/24/2012</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: 03/24/2012</b>
<b>Probe</b>	<b>Antennessa (SN:SN_1109_EP_100)</b>	<b>Calibration Due: 05/04/2011</b>
<b>DIPOLE 2450</b>	<b>Antennessa (DIPJ37,SN 48/05)</b>	<b>Calibration Due: 10/09/2011</b>
<b>Phantom</b>	<b>Antennessa (SN:SN41_05_SAM29)</b>	<b>Calibrated: N/A</b>
<b>Liquid</b>	<b>Antennessa</b>	<b>Calibrated: N/A</b>
<b>Measurement SW</b>	<b>OPEN SAR V2.1</b>	<b>Calibrated: N/A</b>

### C. SAR Measurement Results

<b>Frequency (MHz)</b>	<b>2462.000000</b>
<b>Relative permittivity (real part)</b>	<b>40.425301</b>
<b>Relative permittivity (imaginary part)</b>	<b>13.368611</b>
<b>Conductivity (S/m)</b>	<b>1.854470</b>
<b>Variation (%)</b>	<b>-1.140000</b>
<b>Ambient Temperature:</b>	<b>21 °C</b>
<b>Liquid Temperature:</b>	<b>20 °C</b>



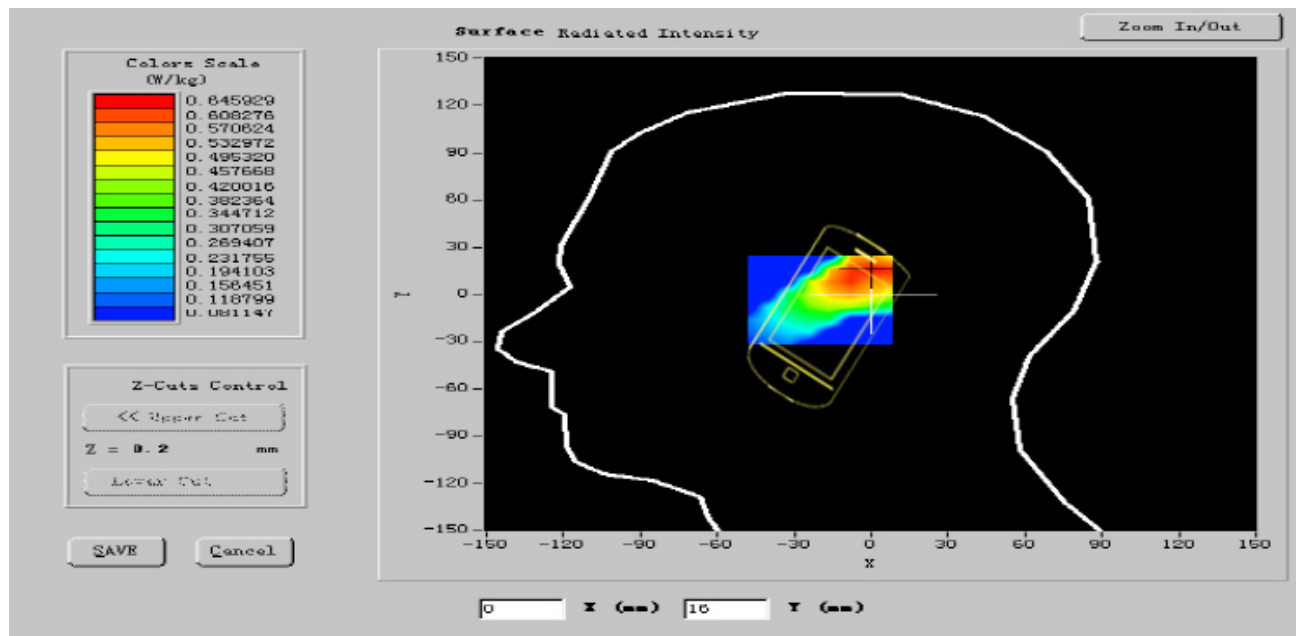
ConvF:

51.18,53.87,70.48

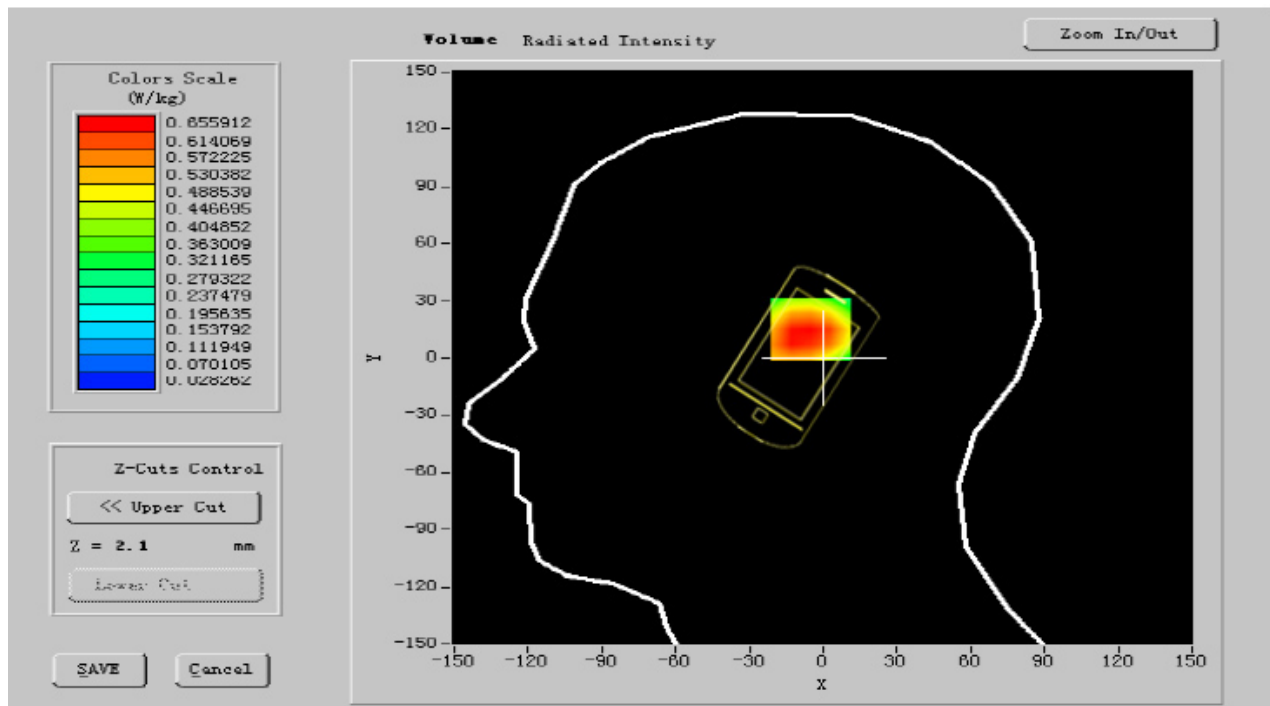
Crest factor:

1:1

## SURFACE SAR



## VOLUME SAR



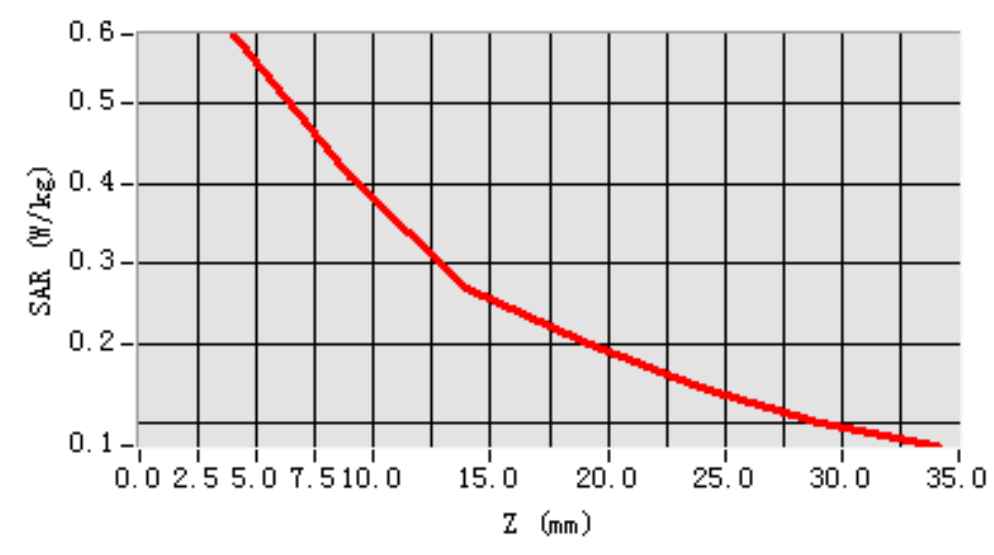


**Maximum location: X=-13.00, Y=-3.00**

SAR 10g (W/Kg)	0.144130
SAR 1g (W/Kg)	0.257541

**Z Axis Scan**

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





## MEASUREMENT 13

**Date of measurement: 04/14/2011****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>	802.11b
<b>Channels</b>	Low
<b>Signal</b>	wireless

### B. Instrumentations.

<b>PC</b>	<b>HP (Pentium(R) V3.06GHz, SN:375052-AA1)</b>	<b>Calibrated: 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: 03/24/2012</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: 03/24/2012</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: 03/24/2012</b>
<b>Probe</b>	<b>Antennessa (SN:SN_1109_EP_100)</b>	<b>Calibration Due: 05/04/2011</b>
<b>DIPOLE 2450</b>	<b>Antennessa (DIPJ37,SN 48/05)</b>	<b>Calibration Due: 10/09/2011</b>
<b>Phantom</b>	<b>Antennessa (SN:SN41_05_SAM29)</b>	<b>Calibrated: N/A</b>
<b>Liquid</b>	<b>Antennessa</b>	<b>Calibrated: N/A</b>
<b>Measurement SW</b>	<b>OPEN SAR V2.1</b>	<b>Calibrated: N/A</b>

### C. SAR Measurement Results

<b>Frequency (MHz)</b>	<b>2412.000000</b>
<b>Relative permittivity (real part)</b>	<b>51.520064</b>
<b>Relative permittivity (imaginary part)</b>	<b>13.370061</b>
<b>Conductivity (S/m)</b>	<b>1.965014</b>
<b>Variation (%)</b>	<b>-0.130000</b>
<b>Ambient Temperature:</b>	<b>21 °C</b>
<b>Liquid Temperature:</b>	<b>20 °C</b>



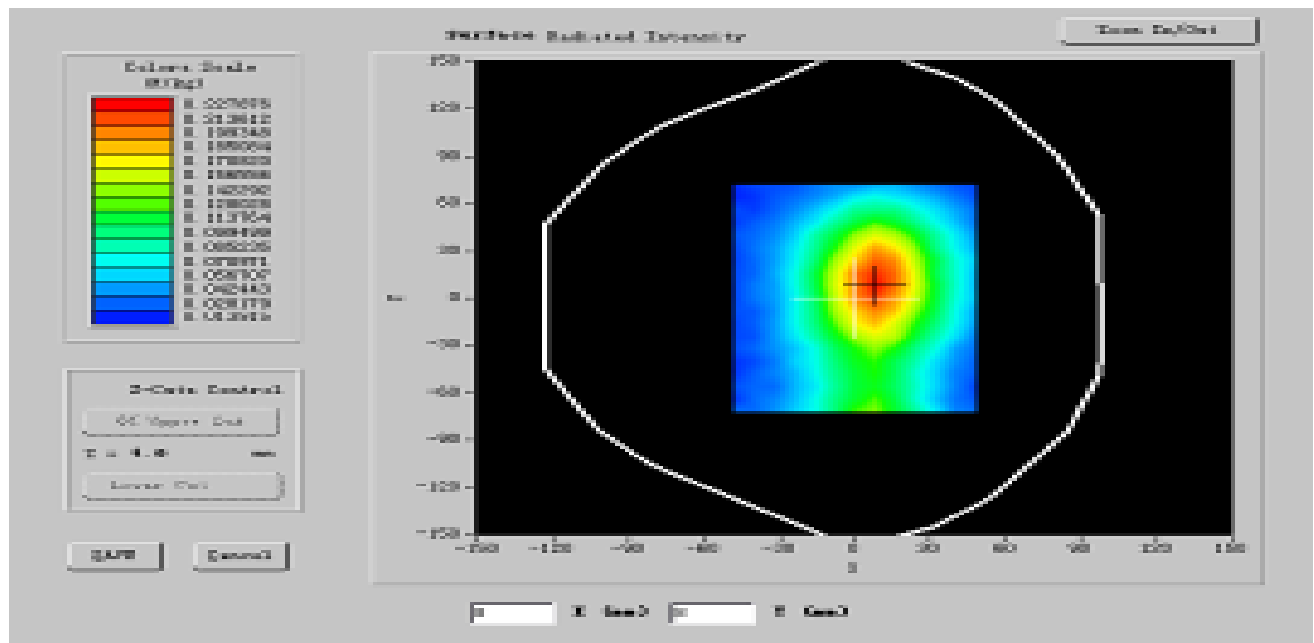
ConvF:

50.35,52.98,69.78

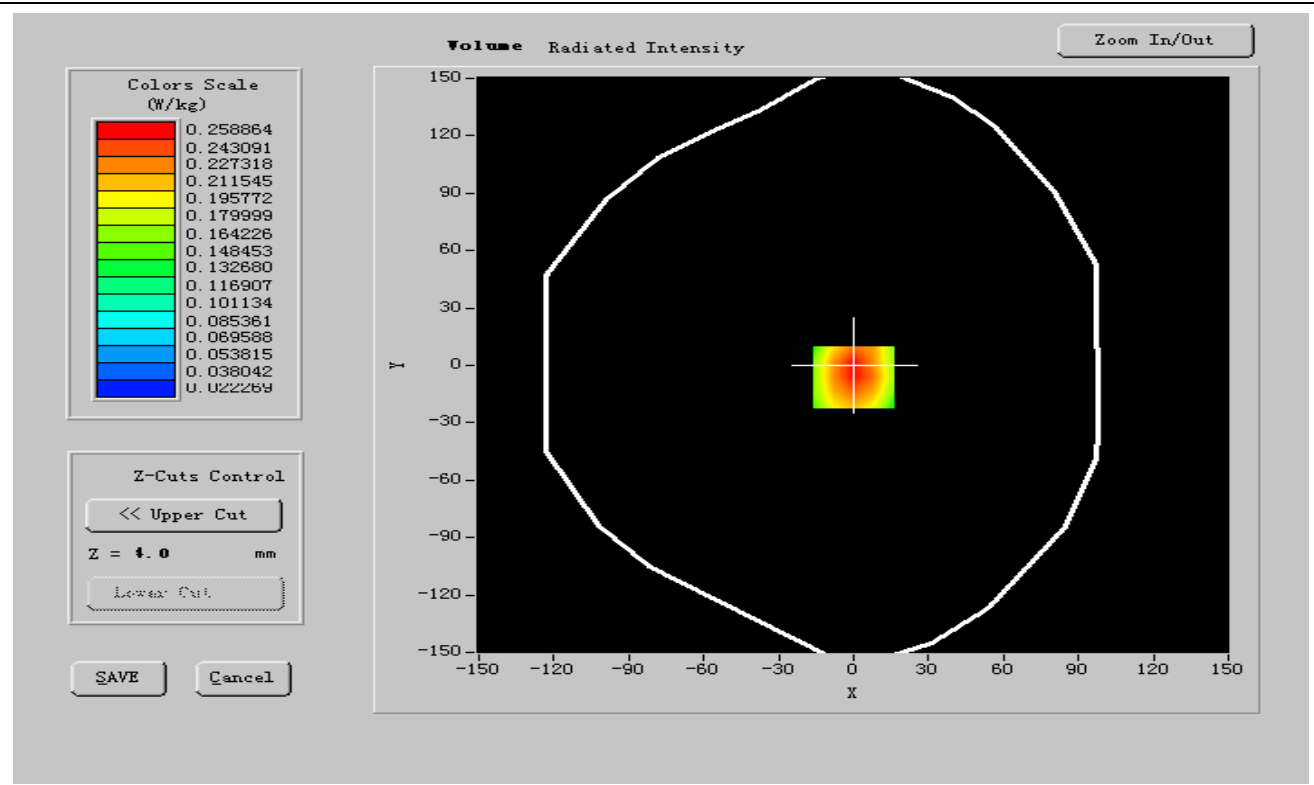
Crest factor:

1:1

## SURFACE SAR



## VOLUME SAR



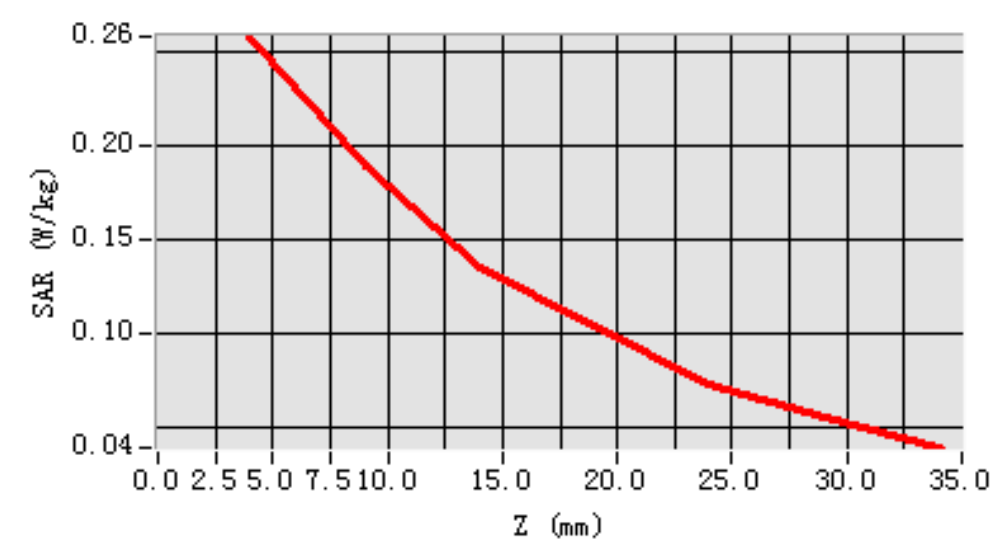


**Maximum location: X=-13.00, Y=-3.00**

SAR 10g (W/Kg)	0.043100
SAR 1g (W/Kg)	0.079854

**Z Axis Scan**

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







## MEASUREMENT 14

**Date of measurement: 04/14/2011****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>	802.11b
<b>Channels</b>	Middle
<b>Signal</b>	wireless

### B. Instrumentations.

<b>PC</b>	<b>HP (Pentium(R) V3.06GHz, SN:375052-AA1)</b>	<b>Calibrated: 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: 03/24/2012</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: 03/24/2012</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: 03/24/2012</b>
<b>Probe</b>	<b>Antennessa (SN:SN_1109_EP_100)</b>	<b>Calibration Due: 05/04/2011</b>
<b>DIPOLE 2450</b>	<b>Antennessa (DIPJ37,SN 48/05)</b>	<b>Calibration Due: 10/09/2011</b>
<b>Phantom</b>	<b>Antennessa (SN:SN41_05_SAM29)</b>	<b>Calibrated: N/A</b>
<b>Liquid</b>	<b>Antennessa</b>	<b>Calibrated: N/A</b>
<b>Measurement SW</b>	<b>OPEN SAR V2.1</b>	<b>Calibrated: N/A</b>

### C. SAR Measurement Results

<b>Frequency (MHz)</b>	<b>2437.000000</b>
<b>Relative permittivity (real part)</b>	<b>51.530000</b>
<b>Relative permittivity (imaginary part)</b>	<b>13.400011</b>
<b>Conductivity (S/m)</b>	<b>1.960210</b>
<b>Variation (%)</b>	<b>-0.600000</b>
<b>Ambient Temperature:</b>	<b>21 °C</b>
<b>Liquid Temperature:</b>	<b>20 °C</b>



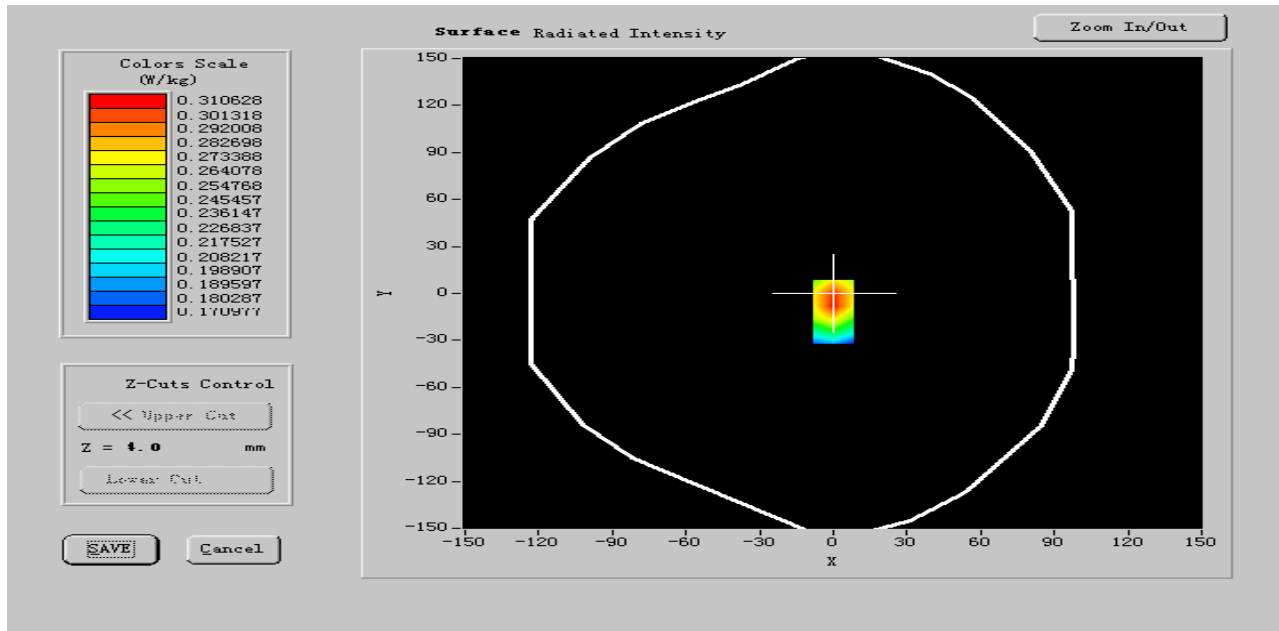
ConvF:

50.35,52.98,69.78

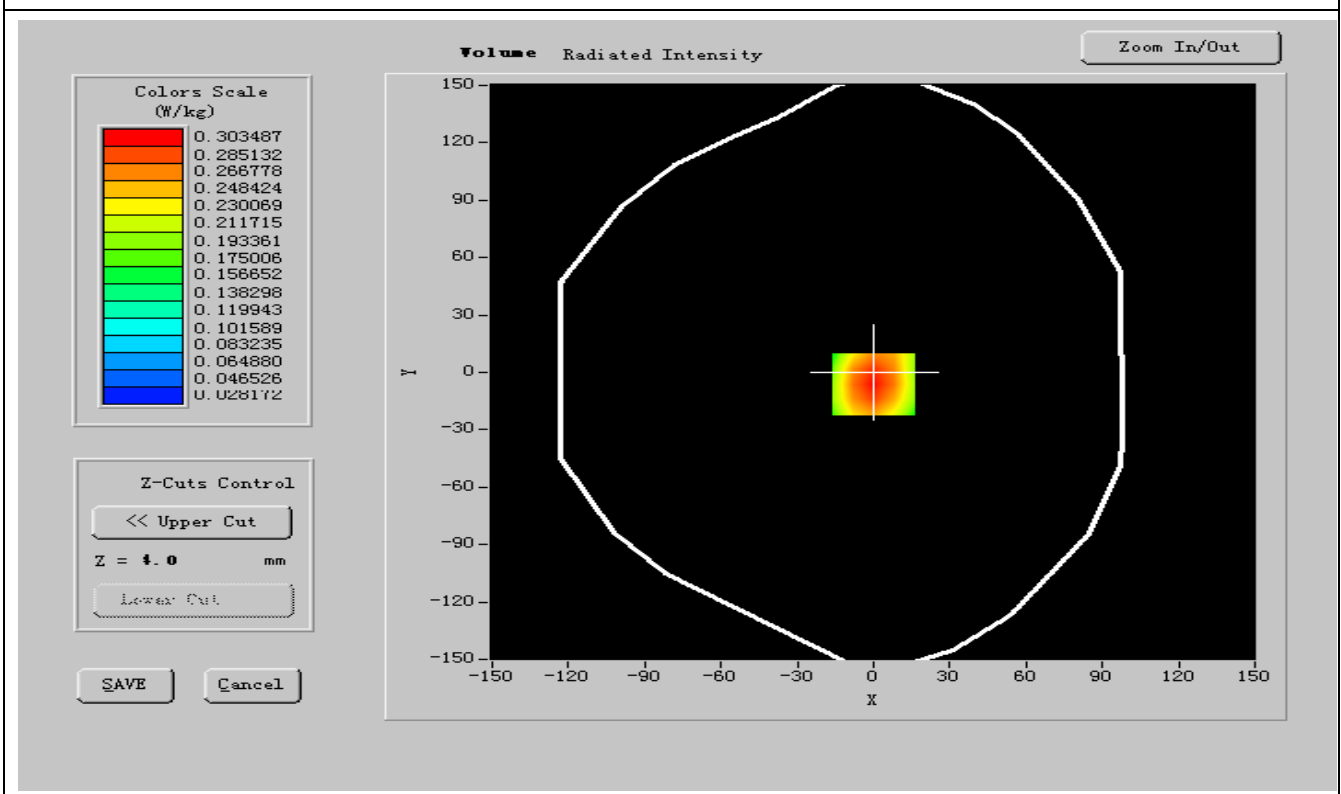
Crest factor:

1:1

## SURFACE SAR



## VOLUME SAR



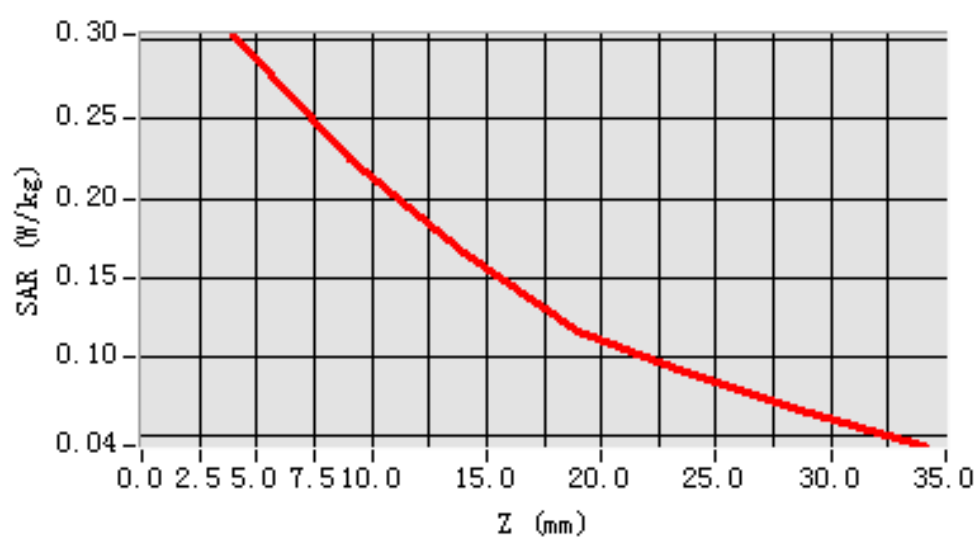


**Maximum location: X=-13.00, Y=-3.00**

SAR 10g (W/Kg)	0.078514
SAR 1g (W/Kg)	0.098704

**Z Axis Scan**

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





## MEASUREMENT 15

**Date of measurement: 04/14/2011****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>	802.11b
<b>Channels</b>	High
<b>Signal</b>	wireless

### B. Instrumentations.

<b>PC</b>	<b>HP (Pentium(R) V3.06GHz, SN:375052-AA1)</b>	<b>Calibrated: 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: 03/24/2012</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: 03/24/2012</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: 03/24/2012</b>
<b>Probe</b>	<b>Antennessa (SN:SN_1109_EP_100)</b>	<b>Calibration Due: 05/04/2011</b>
<b>DIPOLE 2450</b>	<b>Antennessa (DIPJ37,SN 48/05)</b>	<b>Calibration Due: 10/09/2011</b>
<b>Phantom</b>	<b>Antennessa (SN:SN41_05_SAM29)</b>	<b>Calibrated: N/A</b>
<b>Liquid</b>	<b>Antennessa</b>	<b>Calibrated: N/A</b>
<b>Measurement SW</b>	<b>OPEN SAR V2.1</b>	<b>Calibrated: N/A</b>

### C. SAR Measurement Results

<b>Frequency (MHz)</b>	<b>2462.000000</b>
<b>Relative permittivity (real part)</b>	<b>51.536640</b>
<b>Relative permittivity (imaginary part)</b>	<b>13.380026</b>
<b>Conductivity (S/m)</b>	<b>1.959641</b>
<b>Variation (%)</b>	<b>-0.400000</b>
<b>Ambient Temperature:</b>	<b>21 °C</b>
<b>Liquid Temperature:</b>	<b>20 °C</b>



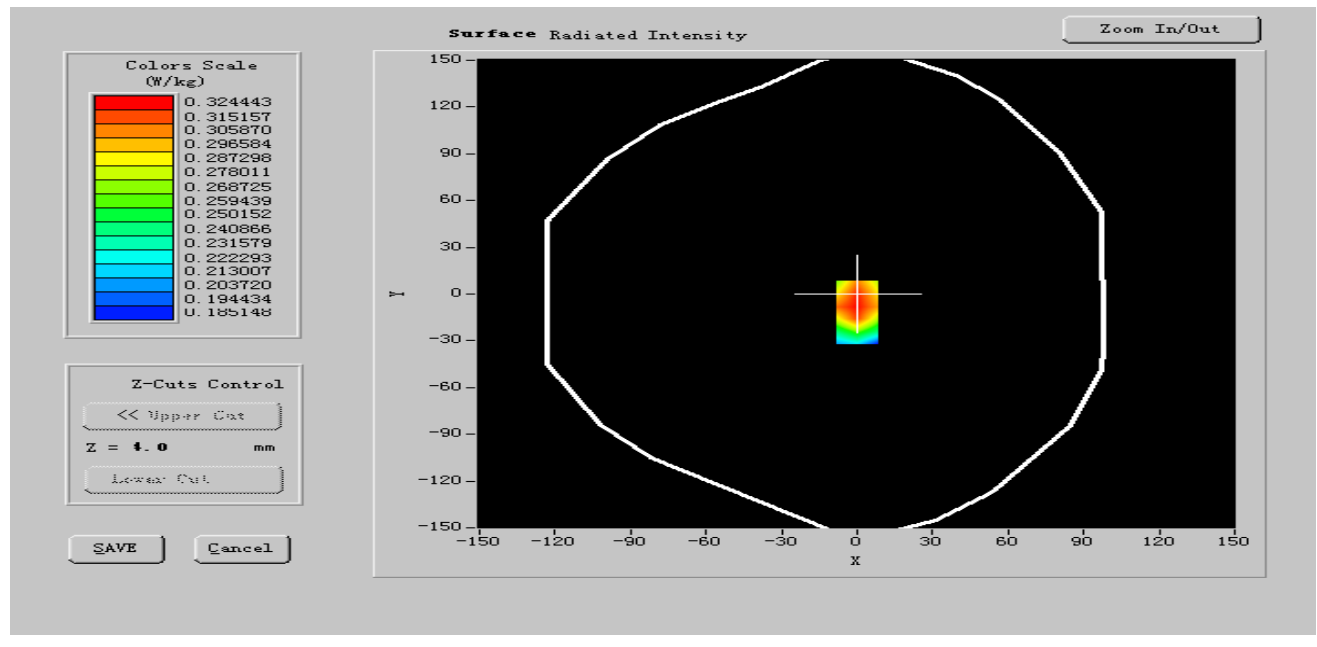
ConvF:

50.35,52.98,69.78

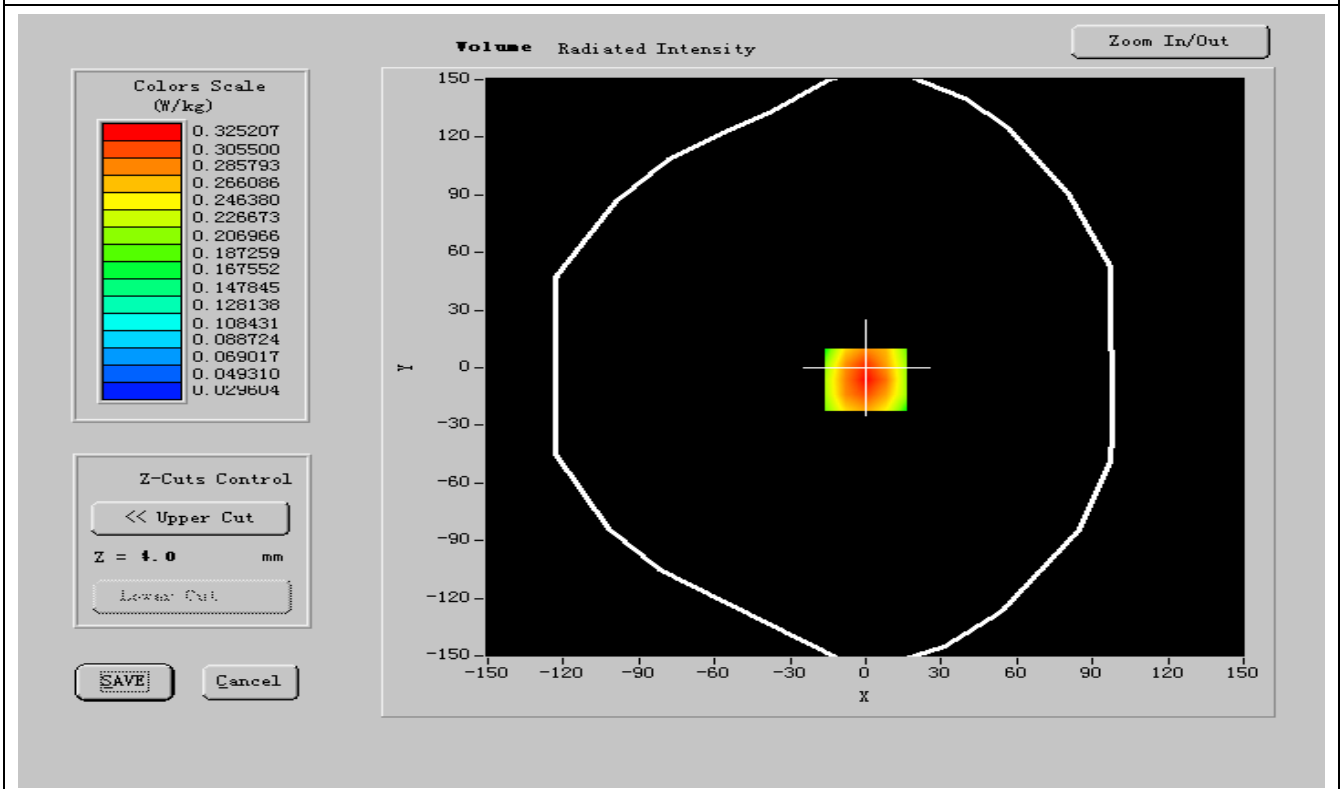
Crest factor:

1:1

## SURFACE SAR



## VOLUME SAR



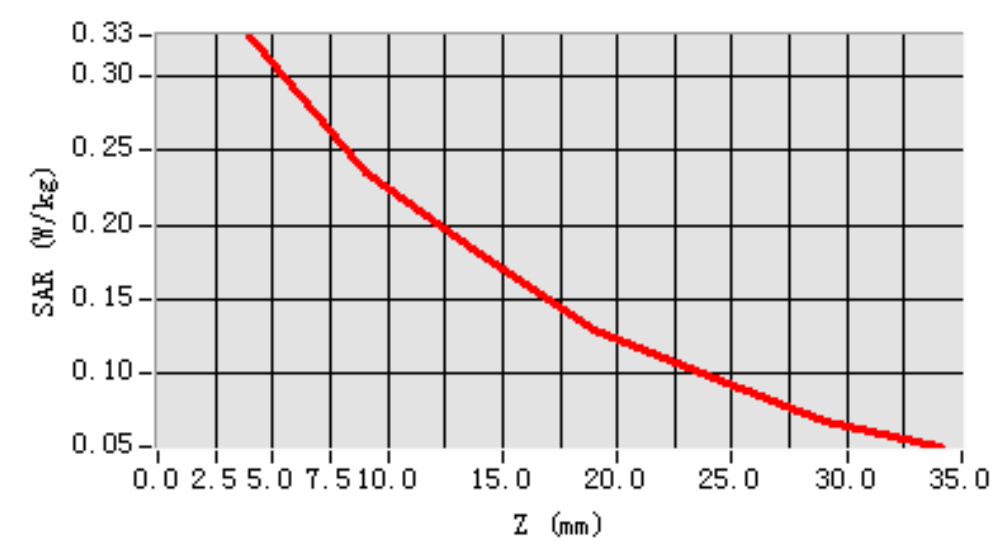


**Maximum location: X=-13.00, Y=-3.00**

SAR 10g (W/Kg)	0.089718
SAR 1g (W/Kg)	0.129871

**Z Axis Scan**

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





## MEASUREMENT 16

**Date of measurement: 04/14/2011****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>	802.11b
<b>Channels</b>	Low
<b>Signal</b>	wireless

### B. Instrumentations.

<b>PC</b>	<b>HP (Pentium(R) V3.06GHz, SN:375052-AA1)</b>	<b>Calibrated: 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: 03/24/2012</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: 03/24/2012</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: 03/24/2012</b>
<b>Probe</b>	<b>Antennessa (SN:SN_1109_EP_100)</b>	<b>Calibration Due: 05/04/2011</b>
<b>DIPOLE 2450</b>	<b>Antennessa (DIPJ37,SN 48/05)</b>	<b>Calibration Due: 10/09/2011</b>
<b>Phantom</b>	<b>Antennessa (SN:SN41_05_SAM29)</b>	<b>Calibrated: N/A</b>
<b>Liquid</b>	<b>Antennessa</b>	<b>Calibrated: N/A</b>
<b>Measurement SW</b>	<b>OPEN SAR V2.1</b>	<b>Calibrated: N/A</b>

### C. SAR Measurement Results

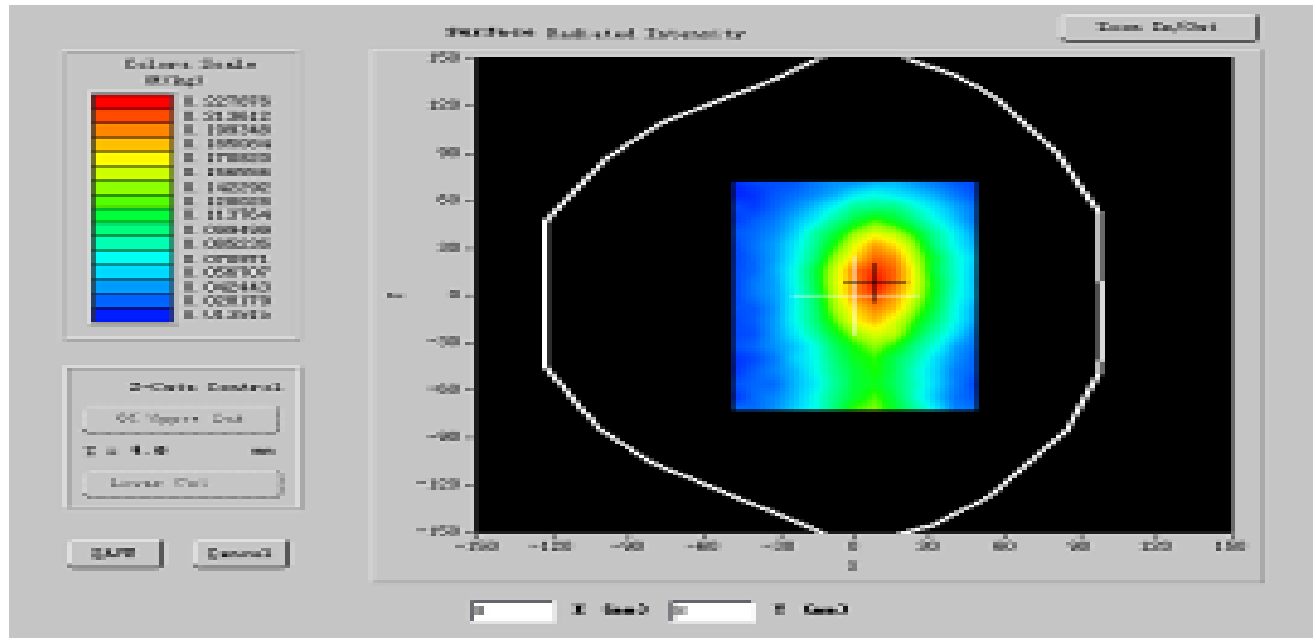
<b>Frequency (MHz)</b>	<b>2412.000000</b>
<b>Relative permittivity (real part)</b>	<b>51.535514</b>
<b>Relative permittivity (imaginary part)</b>	<b>13.385161</b>
<b>Conductivity (S/m)</b>	<b>1.964114</b>
<b>Variation (%)</b>	<b>-0.130000</b>
<b>Ambient Temperature:</b>	<b>21 °C</b>
<b>Liquid Temperature:</b>	<b>20 °C</b>
<b>ConvF:</b>	<b>50.35,52.98,69.78</b>



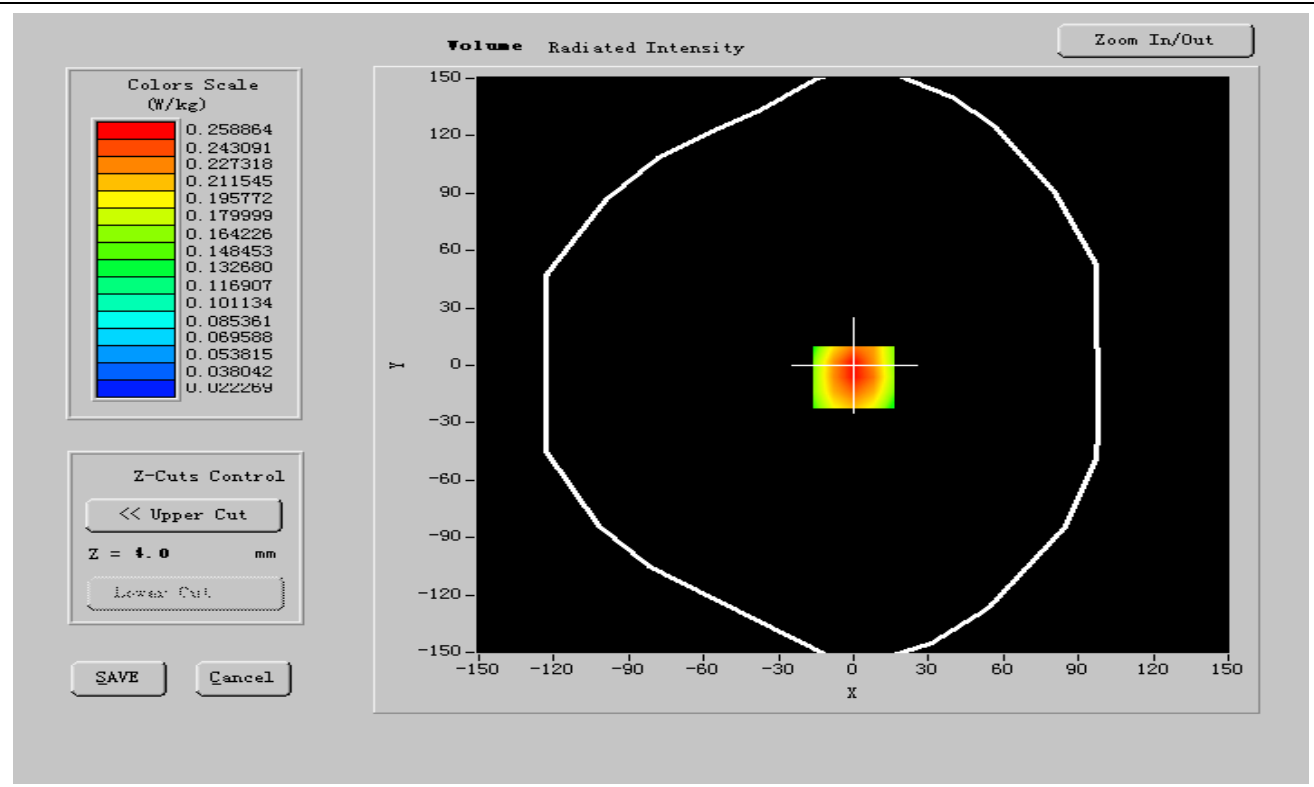
Crest factor:

1:1

## SURFACE SAR



## VOLUME SAR





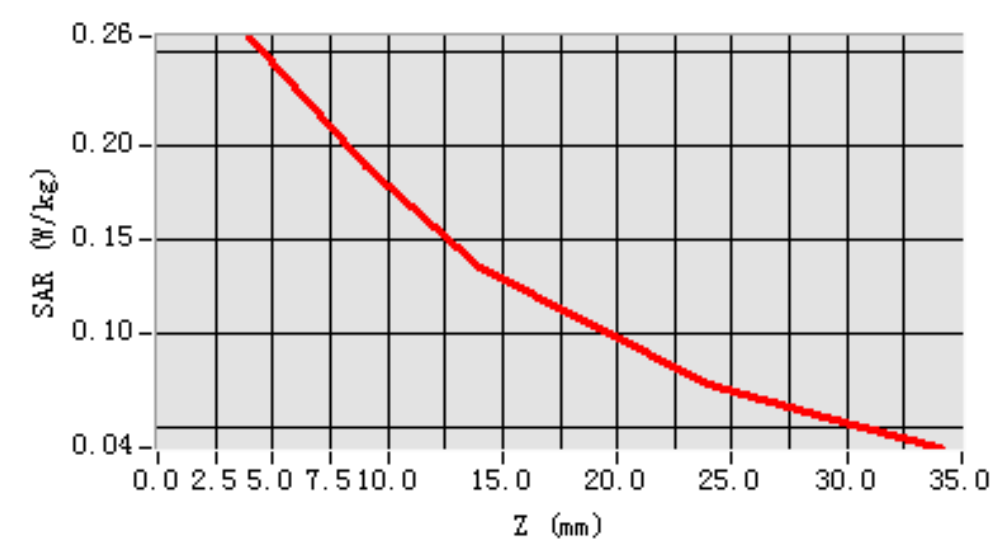


**Maximum location: X=-13.00, Y=-3.00**

SAR 10g (W/Kg)	0.045215
SAR 1g (W/Kg)	0.068974

**Z Axis Scan**

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





## MEASUREMENT 17

**Date of measurement: 04/14/2011****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>	802.11b
<b>Channels</b>	Middle
<b>Signal</b>	wireless

### B. Instrumentations.

<b>PC</b>	<b>HP (Pentium(R) V3.06GHz, SN:375052-AA1)</b>	<b>Calibrated: 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: 03/24/2012</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: 03/24/2012</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: 03/24/2012</b>
<b>Probe</b>	<b>Antennessa (SN:SN_1109_EP_100)</b>	<b>Calibration Due: 05/04/2011</b>
<b>DIPOLE 2450</b>	<b>Antennessa (DIPJ37,SN 48/05)</b>	<b>Calibration Due: 10/09/2011</b>
<b>Phantom</b>	<b>Antennessa (SN:SN41_05_SAM29)</b>	<b>Calibrated: N/A</b>
<b>Liquid</b>	<b>Antennessa</b>	<b>Calibrated: N/A</b>
<b>Measurement SW</b>	<b>OPEN SAR V2.1</b>	<b>Calibrated: N/A</b>

### C. SAR Measurement Results

<b>Frequency (MHz)</b>	<b>2437.000000</b>
<b>Relative permittivity (real part)</b>	<b>51.530000</b>
<b>Relative permittivity (imaginary part)</b>	<b>13.400011</b>
<b>Conductivity (S/m)</b>	<b>1.960210</b>
<b>Variation (%)</b>	<b>-0.600000</b>
<b>Ambient Temperature:</b>	<b>21 °C</b>
<b>Liquid Temperature:</b>	<b>20 °C</b>



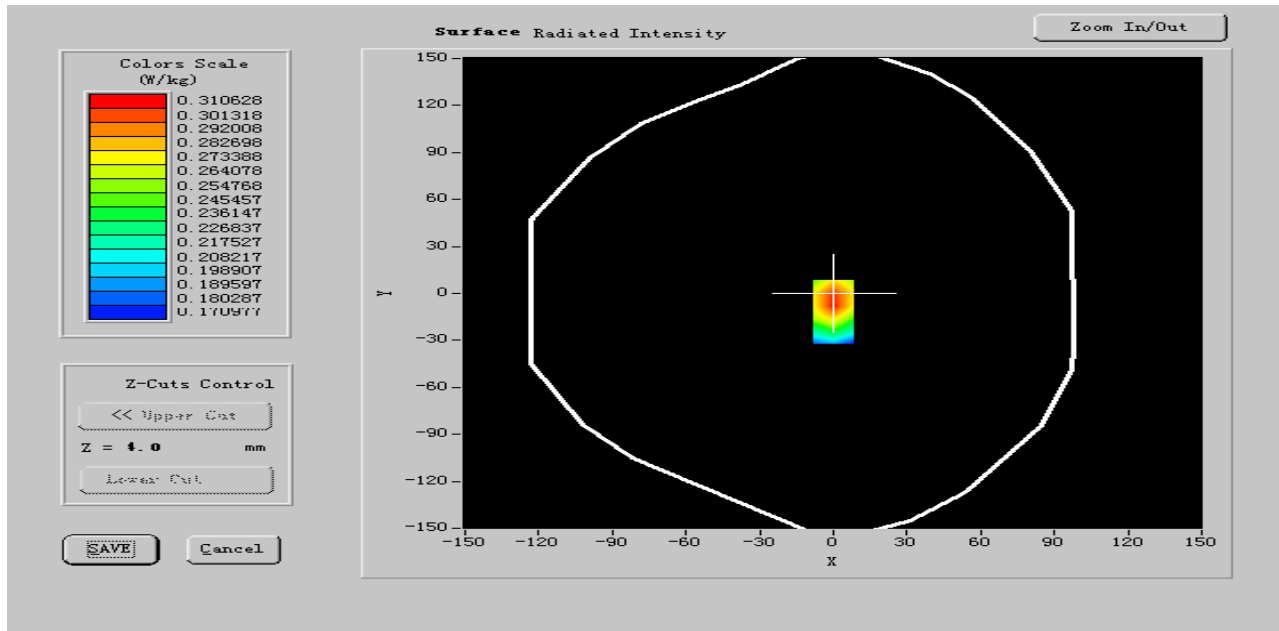
ConvF:

50.35,52.98,69.78

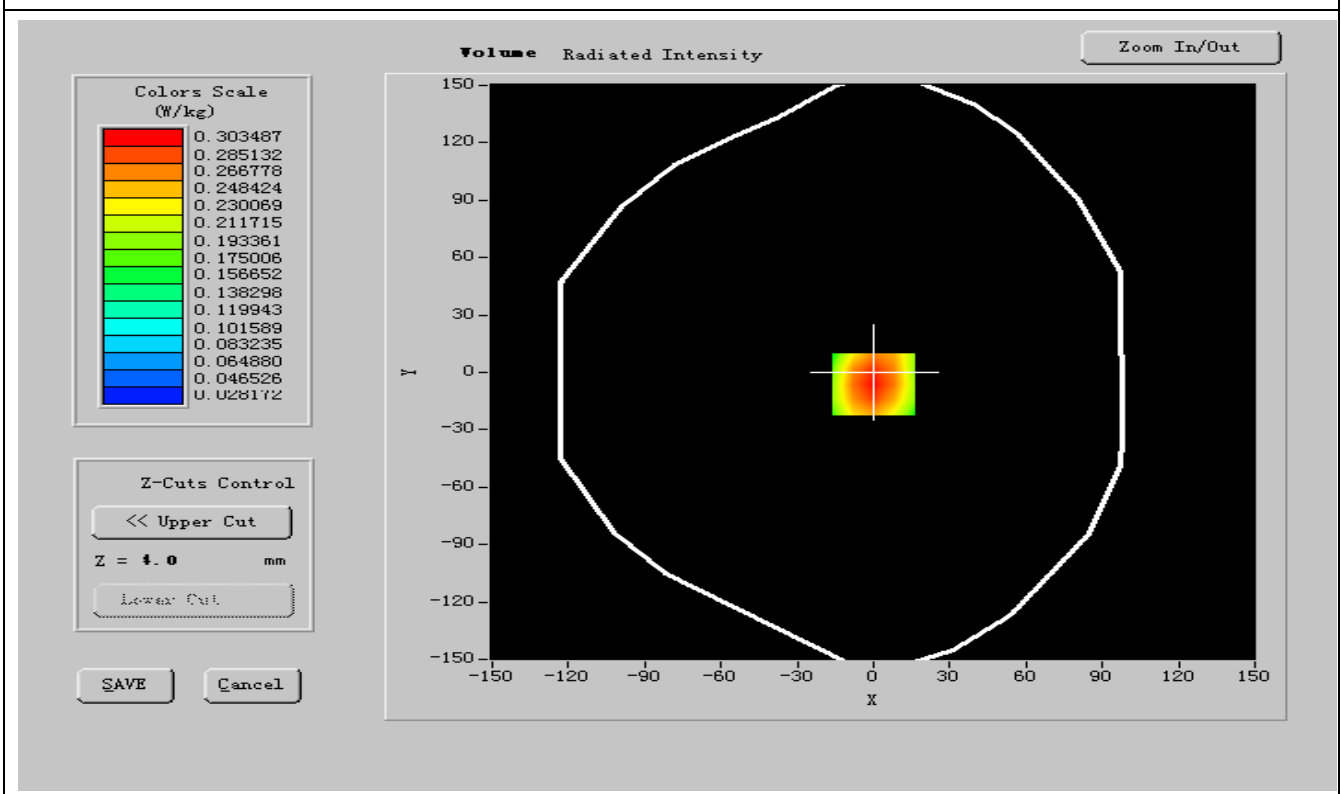
Crest factor:

1:1

## SURFACE SAR



## VOLUME SAR



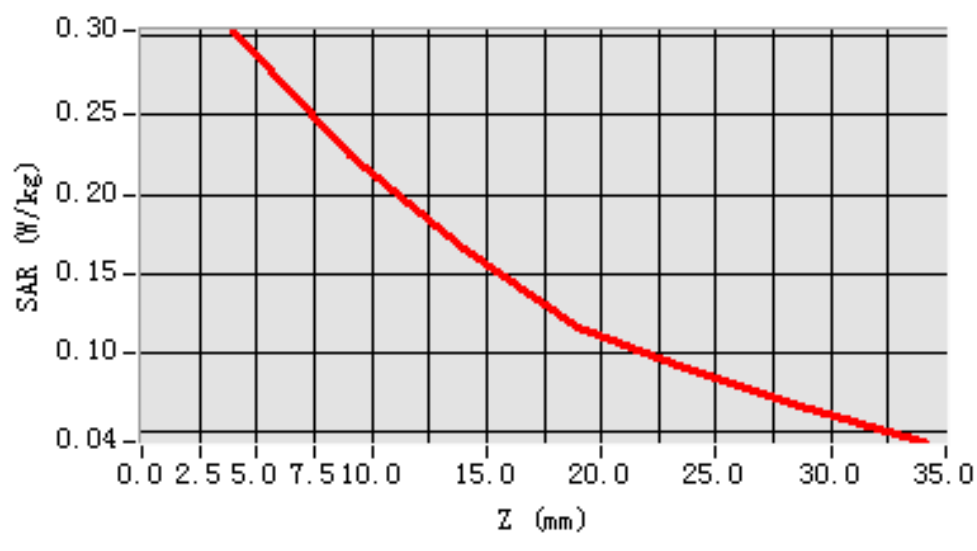


**Maximum location: X=-13.00, Y=-3.00**

SAR 10g (W/Kg)	0.060147
SAR 1g (W/Kg)	0.098751

**Z Axis Scan**

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



**MEASUREMENT 18****Date of measurement: 04/14/2011****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>	802.11b
<b>Channels</b>	High
<b>Signal</b>	wireless

**B. Instrumentations.**

<b>PC</b>	<b>HP (Pentium(R) V3.06GHz, SN:375052-AA1)</b>	<b>Calibrated: 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: 03/24/2012</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: 03/24/2012</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: 03/24/2012</b>
<b>Probe</b>	<b>Antennessa (SN:SN_1109_EP_100)</b>	<b>Calibration Due: 05/04/2011</b>
<b>DIPOLE 2450</b>	<b>Antennessa (DIPJ37,SN 48/05)</b>	<b>Calibration Due: 10/09/2011</b>
<b>Phantom</b>	<b>Antennessa (SN:SN41_05_SAM29)</b>	<b>Calibrated: N/A</b>
<b>Liquid</b>	<b>Antennessa</b>	<b>Calibrated: N/A</b>
<b>Measurement SW</b>	<b>OPEN SAR V2.1</b>	<b>Calibrated: N/A</b>

**C. SAR Measurement Results**

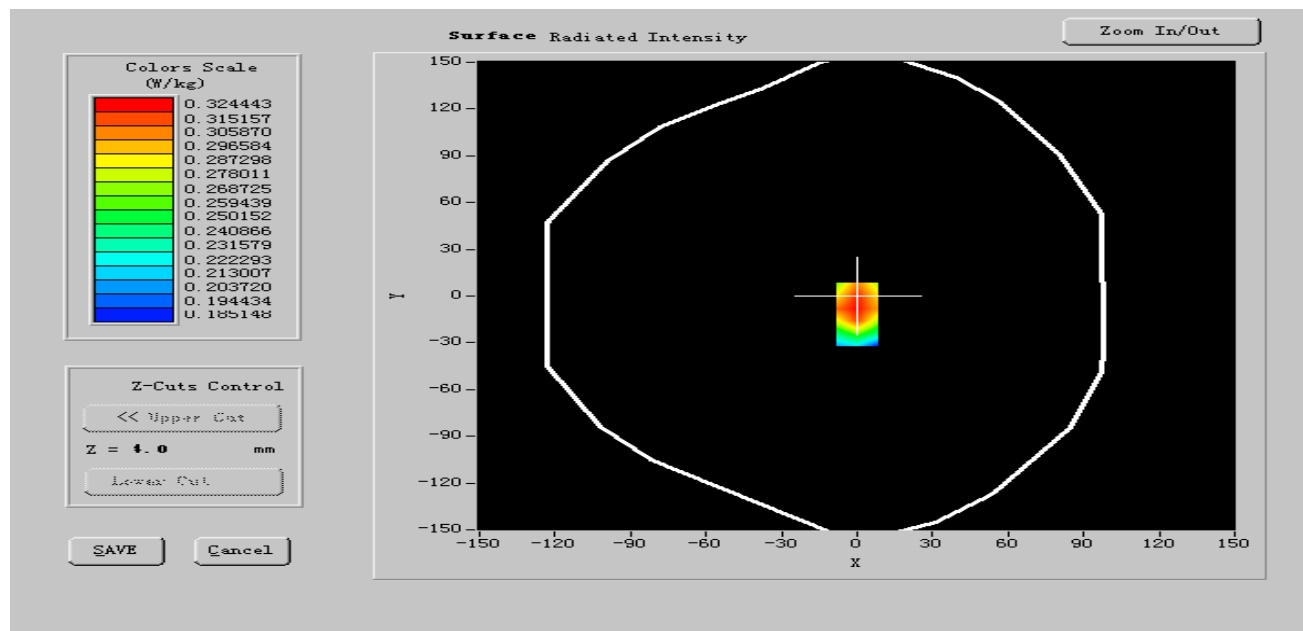
<b>Frequency (MHz)</b>	<b>2462.000000</b>
<b>Relative permittivity (real part)</b>	<b>51.549840</b>
<b>Relative permittivity (imaginary part)</b>	<b>13.389326</b>
<b>Conductivity (S/m)</b>	<b>1.958413</b>
<b>Variation (%)</b>	<b>-0.400000</b>
<b>Ambient Temperature:</b>	<b>21 °C</b>
<b>Liquid Temperature:</b>	<b>20 °C</b>
<b>ConvF:</b>	<b>50.35,52.98,69.78</b>



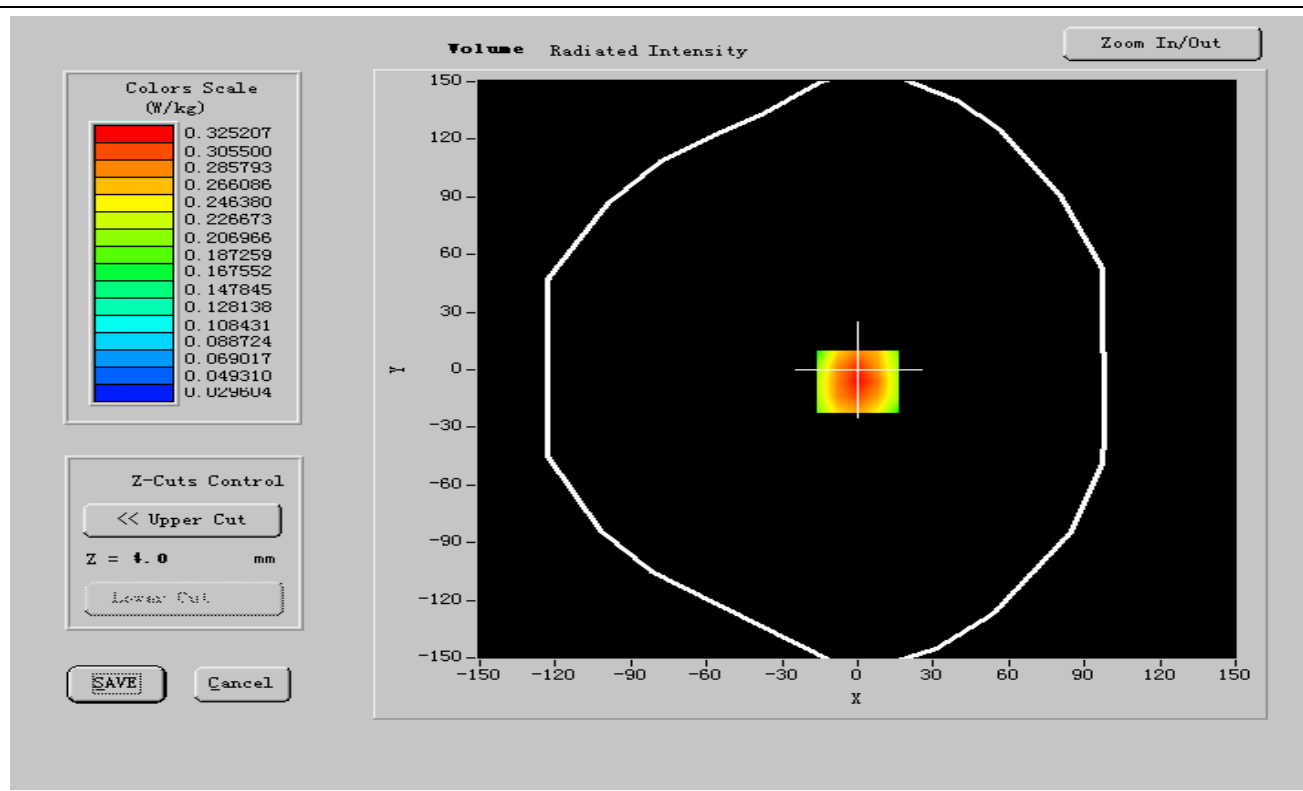
Crest factor:

1:1

## SURFACE SAR



## VOLUME SAR



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



SAR 10g (W/Kg)	0.089541
SAR 1g (W/Kg)	0.106585

**Z Axis Scan**

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

