



### III. 802.11 G RESULTS

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

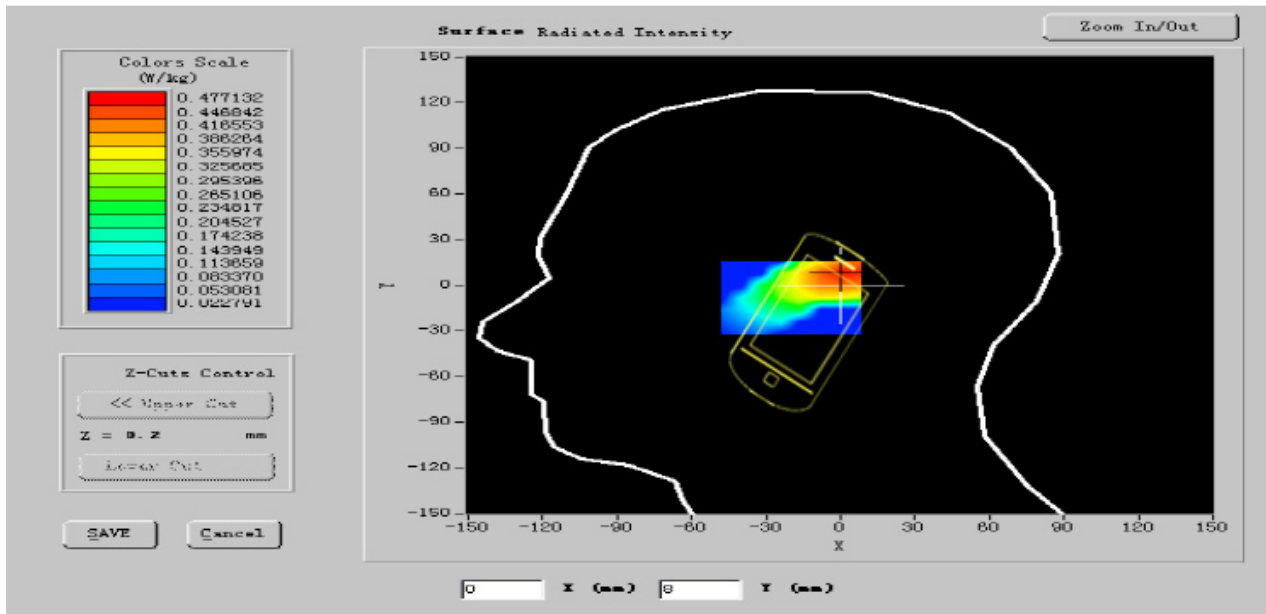
<b>Frequency (MHz)</b>	<b>2412.0000</b>
<b>Relative permittivity (real part)</b>	<b>40.415741</b>
<b>Relative permittivity (imaginary part)</b>	<b>13.348512</b>
<b>Conductivity (S/m)</b>	<b>1.814101</b>
<b>Variation (%)</b>	<b>-1.110000</b>
<b>Ambient Temperature:</b>	<b>21 °C</b>
<b>Liquid Temperature:</b>	<b>20 °C</b>
<b>ConvF:</b>	<b>51.18,53.87,70.48</b>



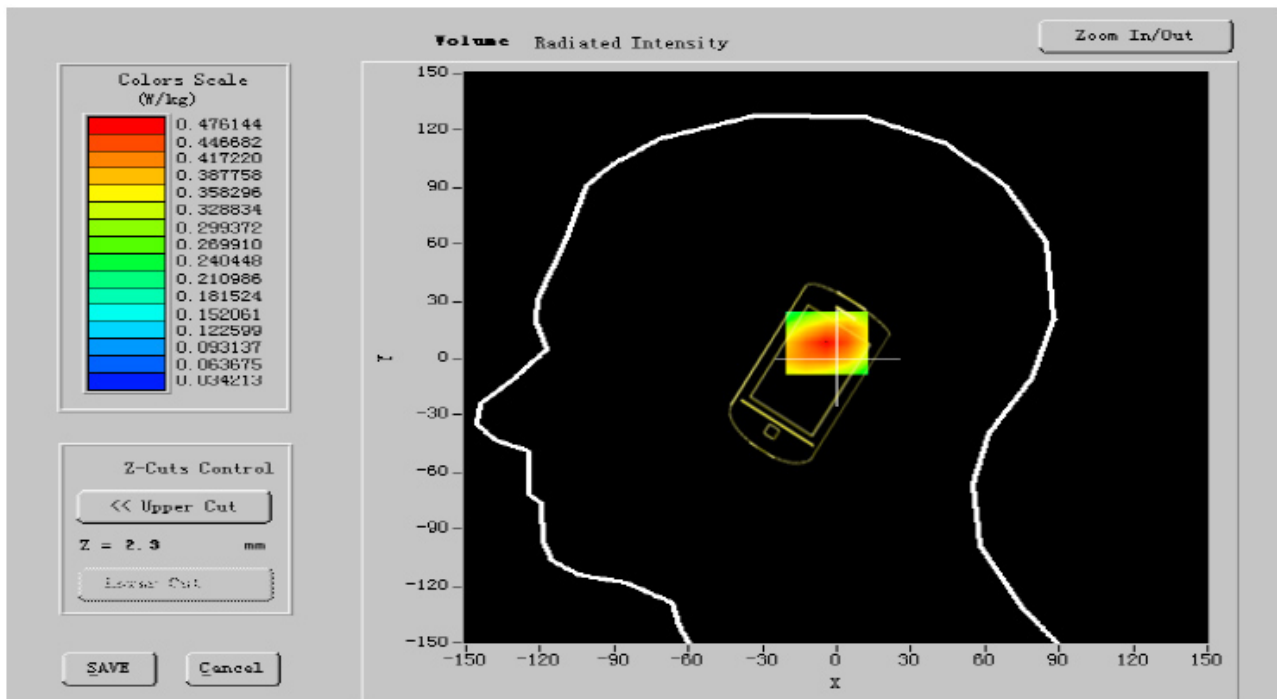
Crest factor:

1:1

## SURFACE SAR



## VOLUME SAR



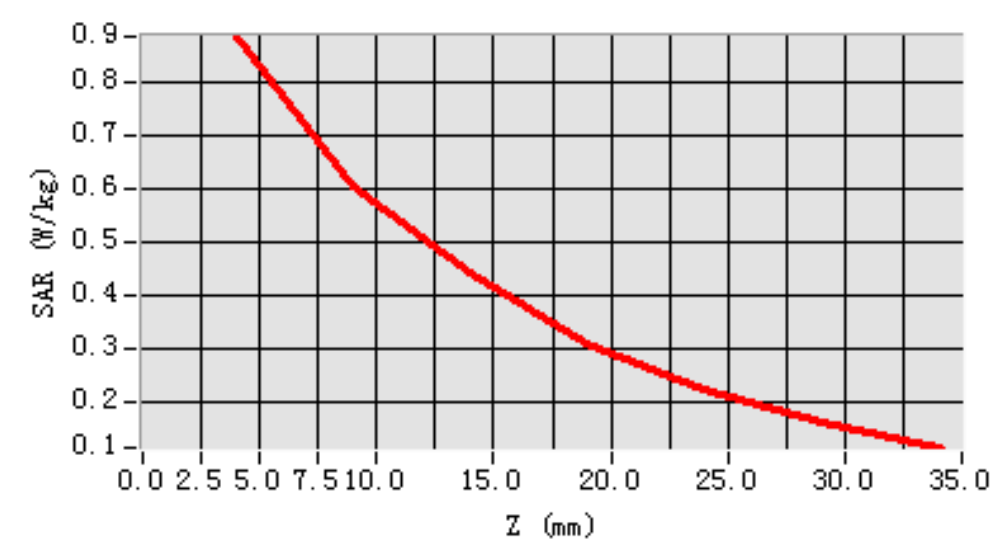


**Maximum location: X=-13.00, Y=-3.00**

SAR 10g (W/Kg)	0.045851
SAR 1g (W/Kg)	0.104750

**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>	802.11g
<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>40.426168</b>
<b>Relative permittivity (imaginary part)</b>	<b>13.348910</b>
<b>Conductivity (S/m)</b>	<b>1.865411</b>
<b>Variation (%)</b>	<b>-0.300000</b>
<b>Ambient Temperature:</b>	<b>21 °C</b>
<b>Liquid Temperature:</b>	<b>20 °C</b>



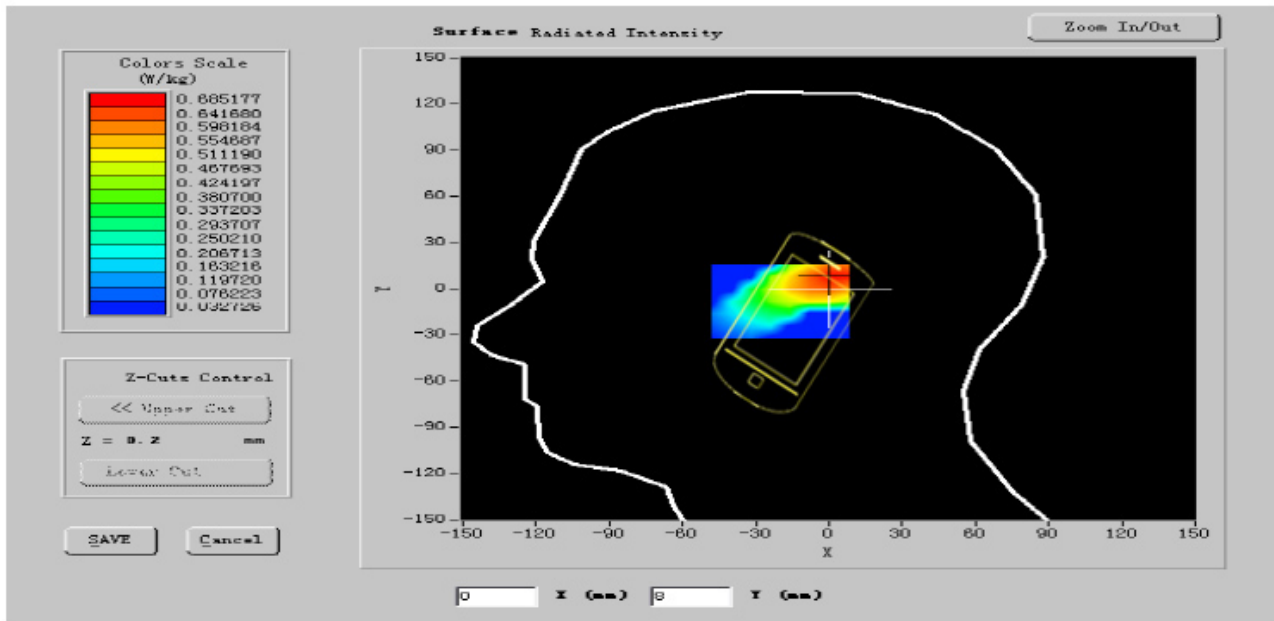
ConvF:

51.18,53.87,70.48

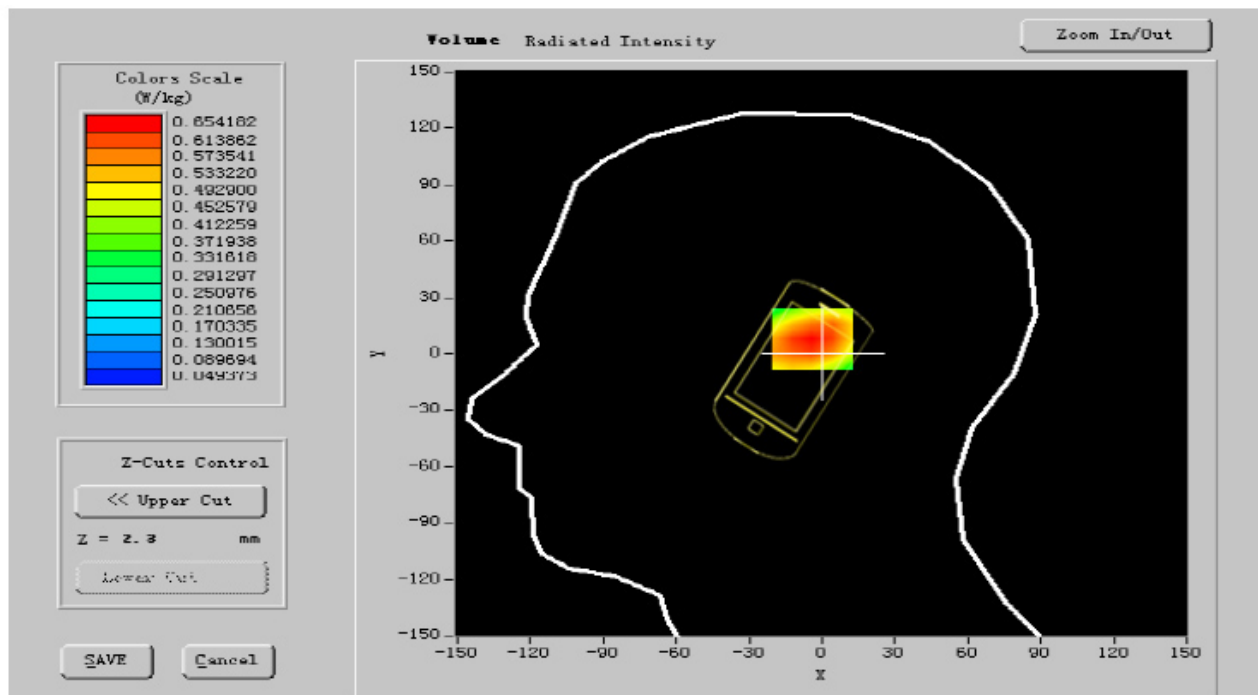
Crest factor:

1:1

## SURFACE SAR



## VOLUME SAR



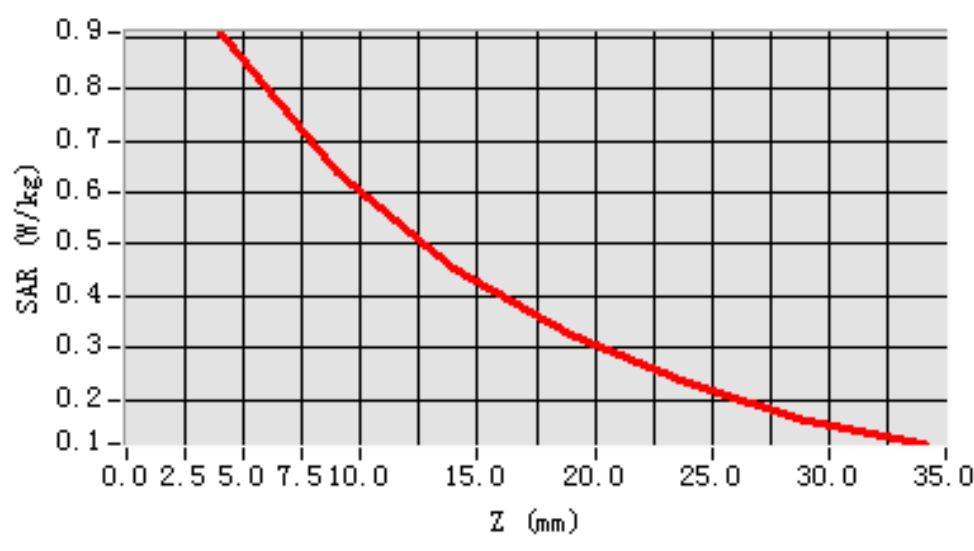


**Maximum location: X=-13.00, Y=-3.00**

SAR 10g (W/Kg)	0.068410
SAR 1g (W/Kg)	0.079851

**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>	802.11g
<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>40.421402</b>
<b>Relative permittivity (imaginary part)</b>	<b>13.244152</b>
<b>Conductivity (S/m)</b>	<b>1.854787</b>
<b>Variation (%)</b>	<b>-0.100000</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>

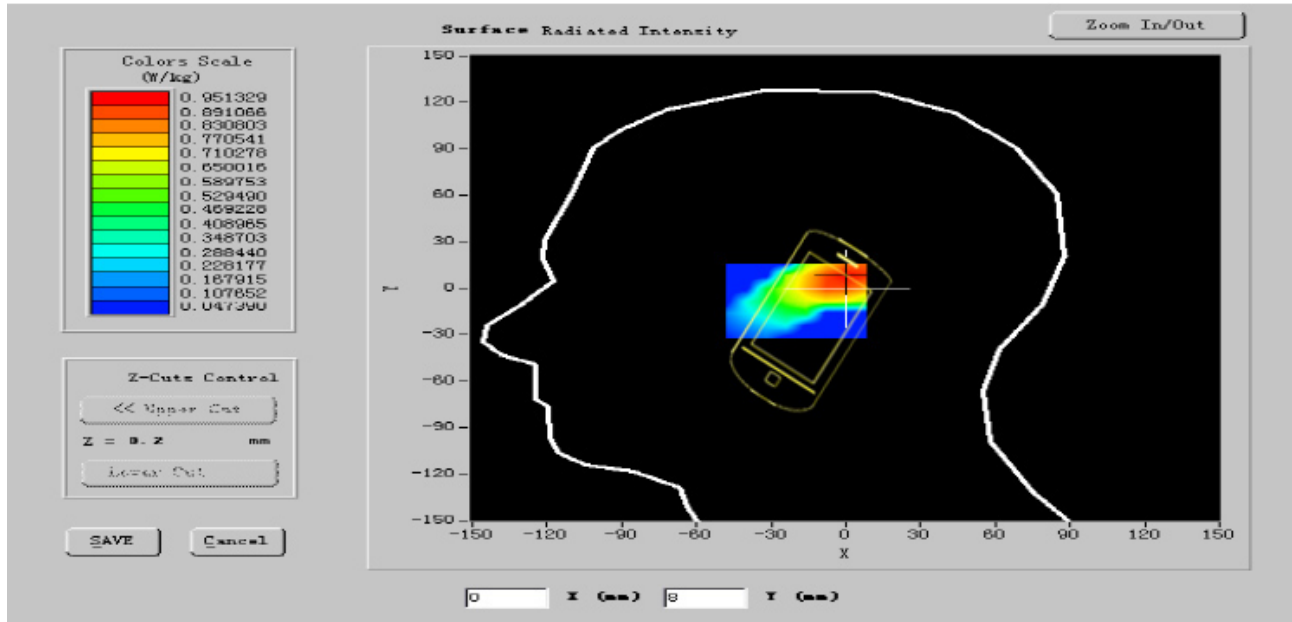




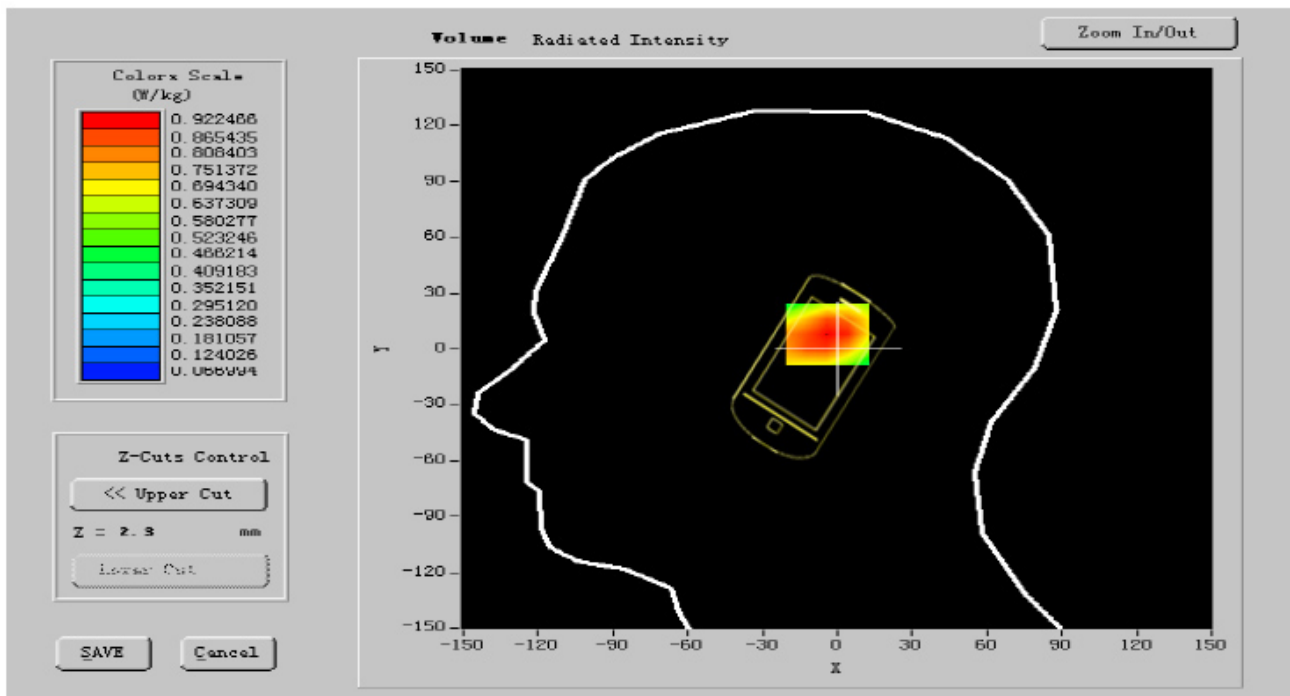
Crest factor:

1:1

## SURFACE SAR



## VOLUME SAR



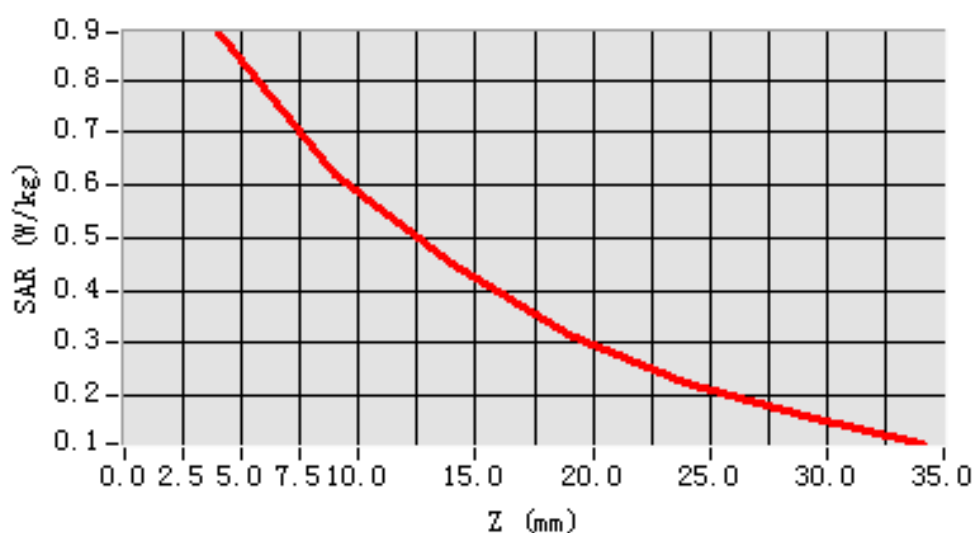


**Maximum location: X=-13.00, Y=-3.00**

SAR 10g (W/Kg)	0.068745
SAR 1g (W/Kg)	0.126877

**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>	802.11g
<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>

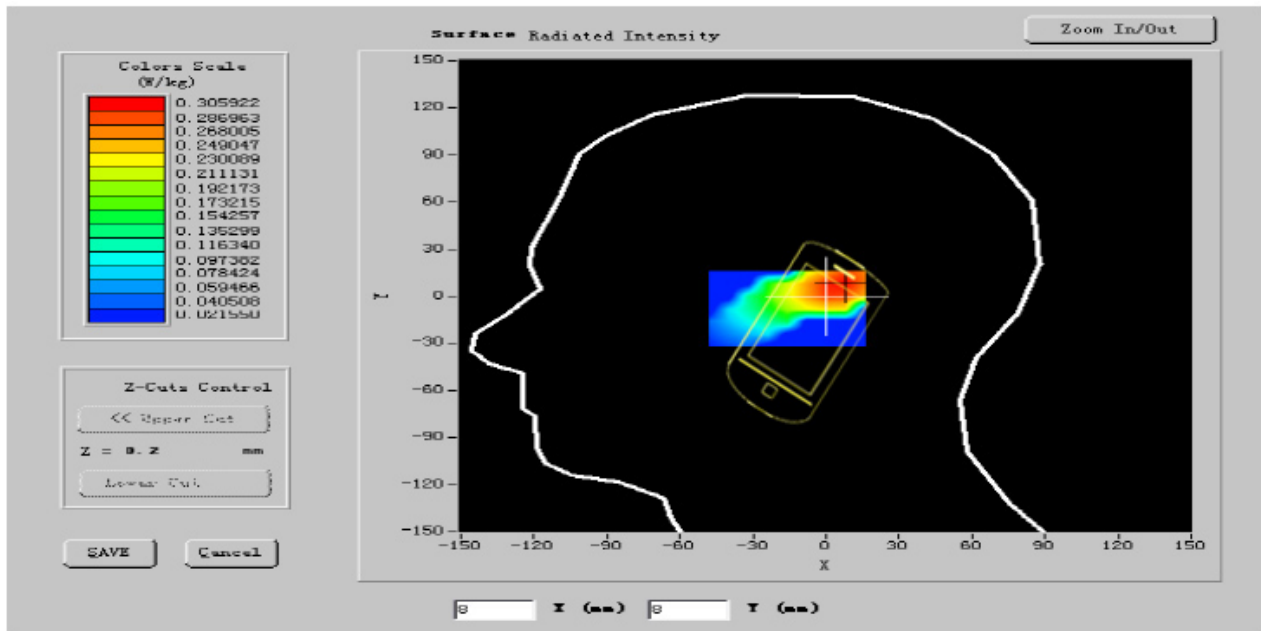
### C. SAR Measurement Results

<b>Frequency (MHz)</b>	<b>2412.000000</b>
<b>Relative permittivity (real part)</b>	<b>40.423616</b>
<b>Relative permittivity (imaginary part)</b>	<b>13.294711</b>
<b>Conductivity (S/m)</b>	<b>1.857114</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

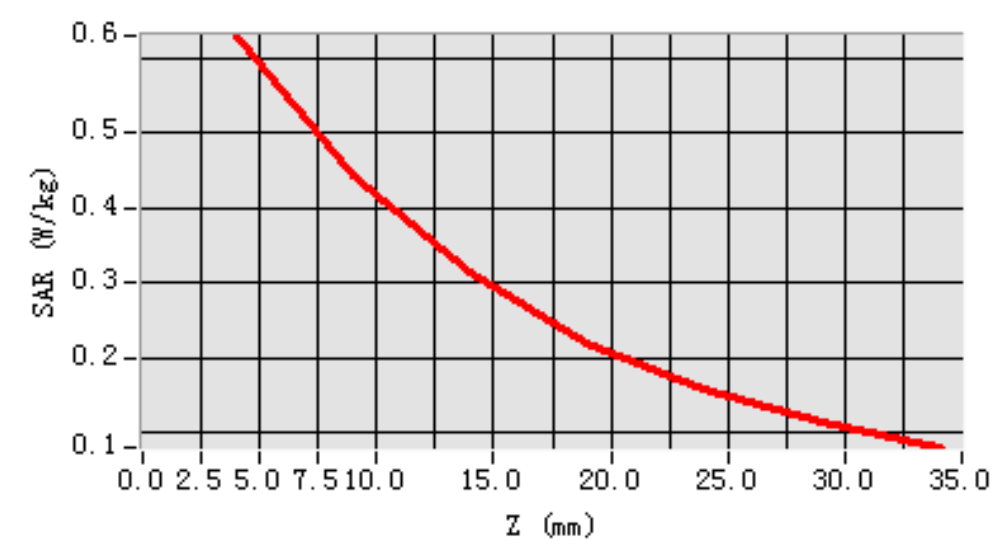


**Maximum location: X=-13.00, Y=-3.00**

SAR 10g (W/Kg)	0.068778
SAR 1g (W/Kg)	0.115878

**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>	802.11g
<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>40.421410</b>
<b>Relative permittivity (imaginary part)</b>	<b>13.339811</b>
<b>Conductivity (S/m)</b>	<b>1.854144</b>
<b>Variation (%)</b>	<b>-0.400000</b>
<b>Ambient Temperature:</b>	<b>21 °C</b>
<b>Liquid Temperature:</b>	<b>20 °C</b>



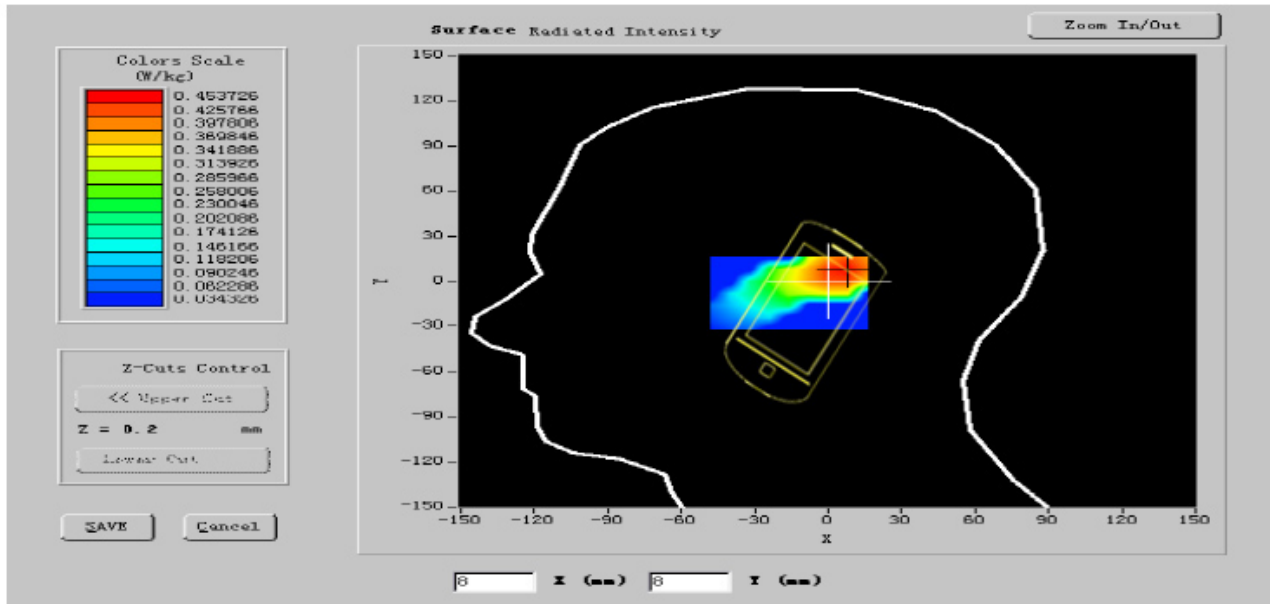
ConvF:

51.18,53.87,70.48

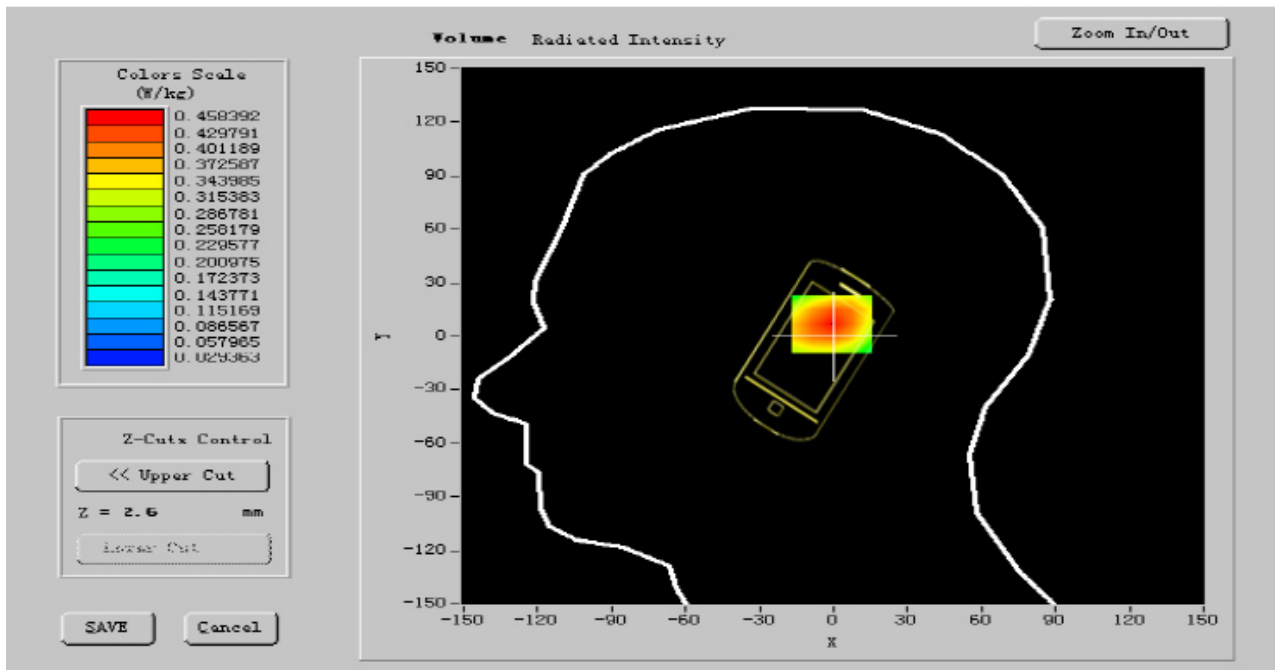
Crest factor:

1:1

## SURFACE SAR



## VOLUME SAR



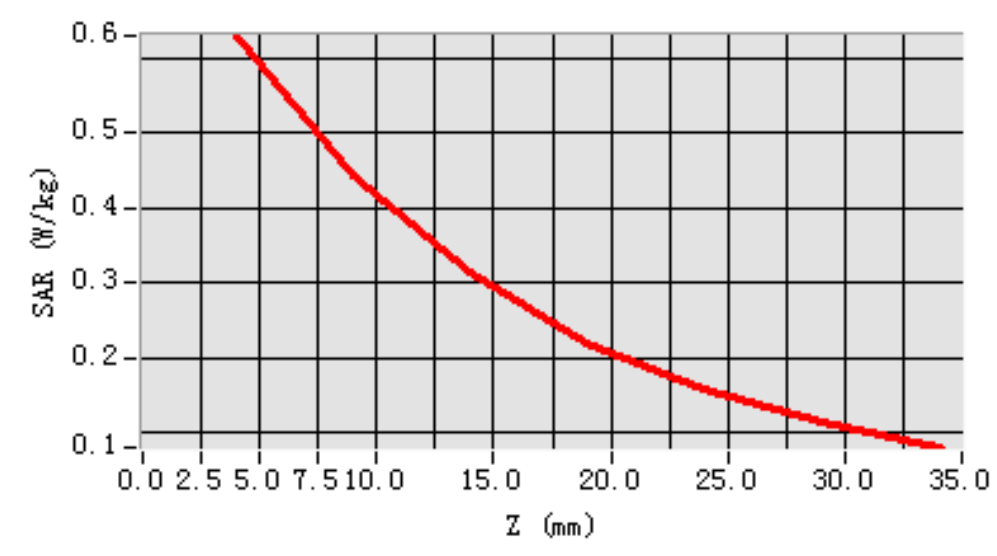


**Maximum location: X=-13.00, Y=-3.00**

SAR 10g (W/Kg)	0.078541
SAR 1g (W/Kg)	0.127894

**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>	802.11g
<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>40.415410</b>
<b>Relative permittivity (imaginary part)</b>	<b>13.348744</b>
<b>Conductivity (S/m)</b>	<b>1.847550</b>
<b>Variation (%)</b>	<b>-1.500000</b>
<b>Ambient Temperature:</b>	<b>21 °C</b>
<b>Liquid Temperature:</b>	<b>20 °C</b>



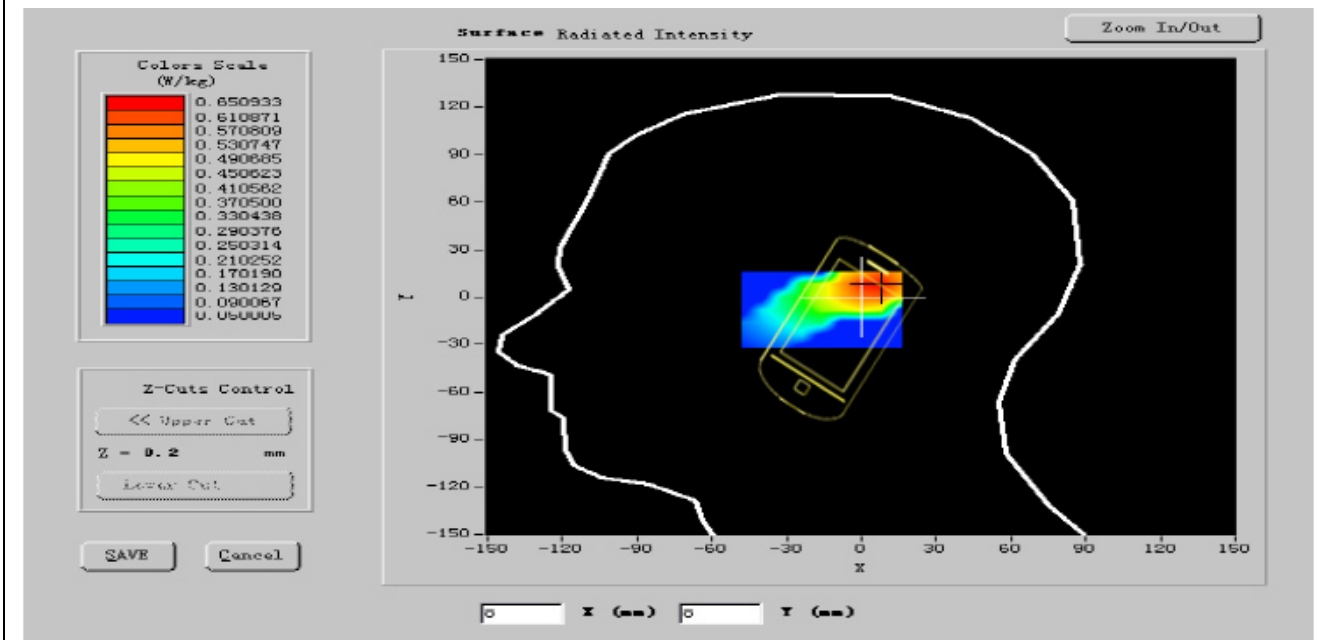
ConvF:

51.18,53.87,70.48

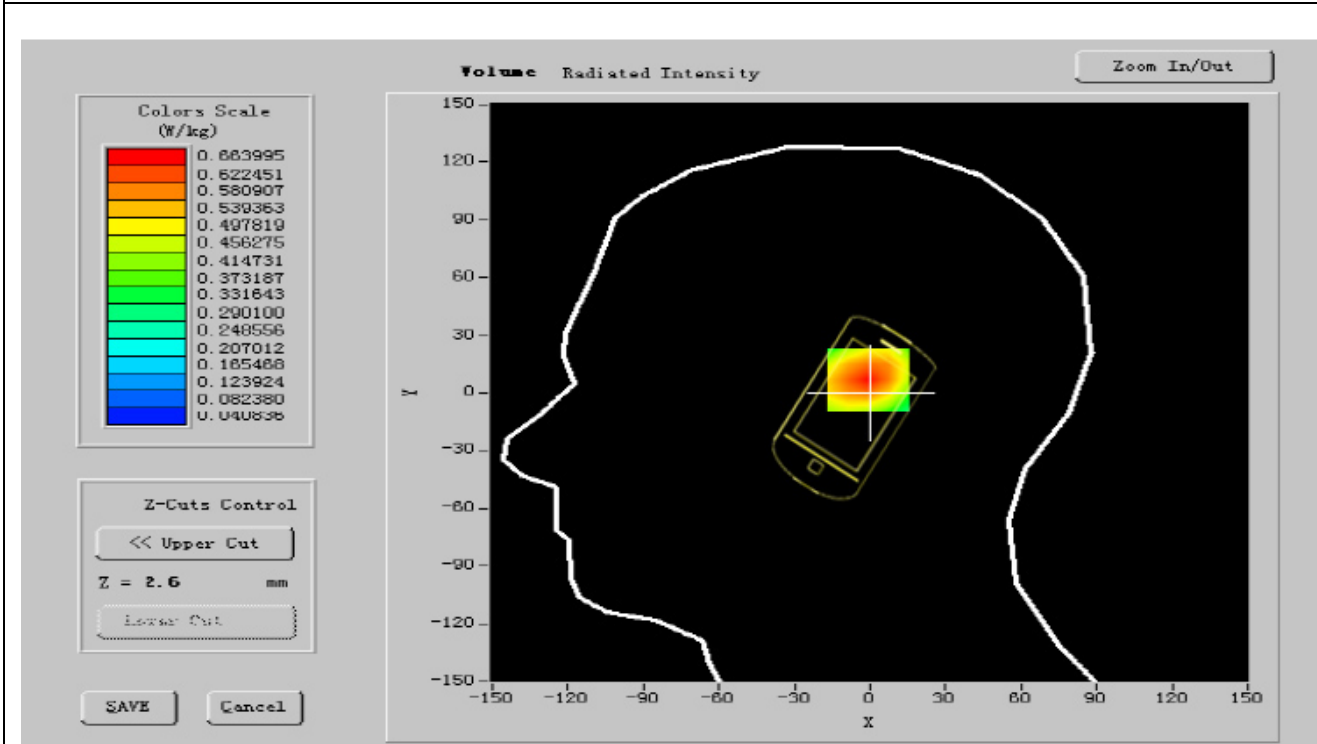
Crest factor:

1:1

## SURFACE SAR



## VOLUME SAR



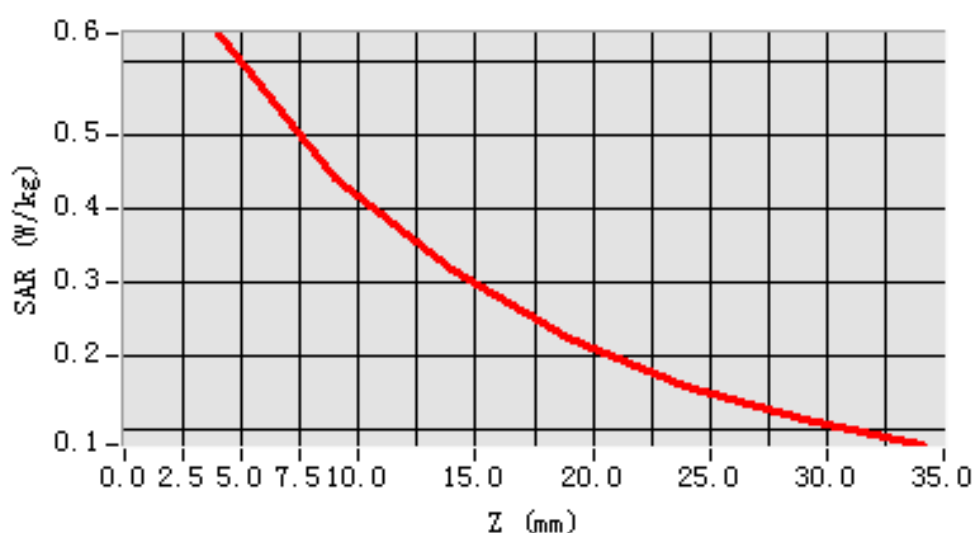


**Maximum location: X=-13.00, Y=-3.00**

SAR 10g (W/Kg)	0.075692
SAR 1g (W/Kg)	0.148721

**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>	802.11g
<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>1.858704</b>
<b>Variation (%)</b>	<b>0.300000</b>
<b>Ambient Temperature:</b>	<b>21 °C</b>
<b>Liquid Temperature:</b>	<b>20 °C</b>



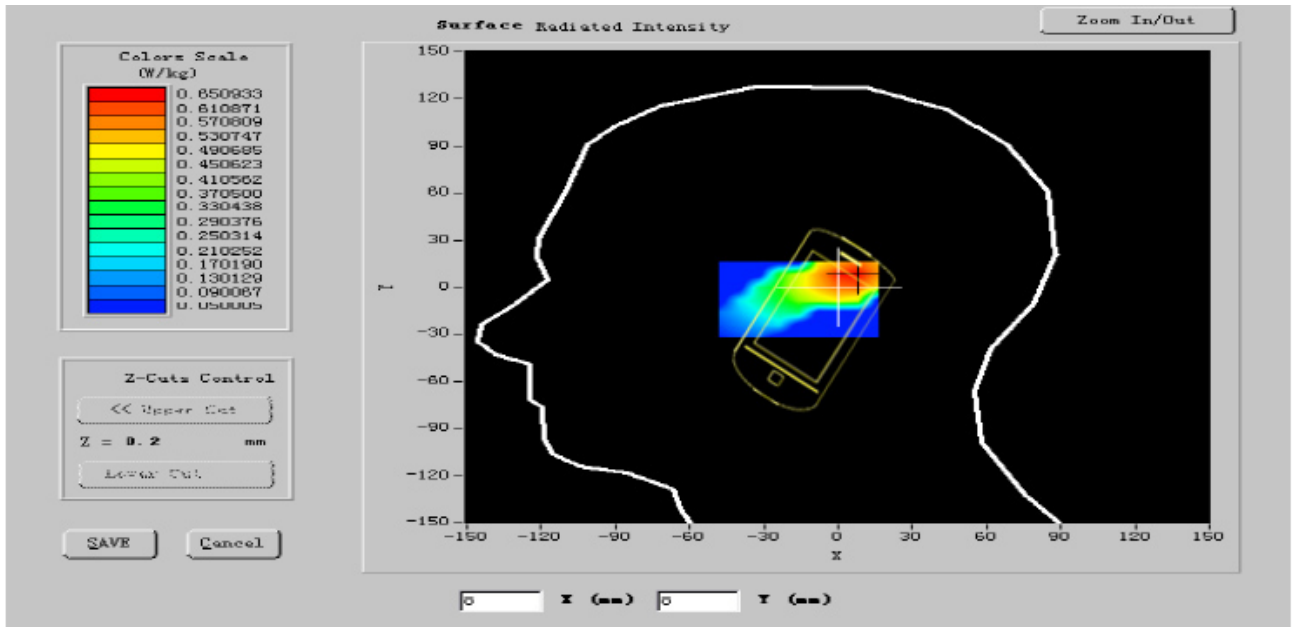
ConvF:

51.18,53.87,70.48

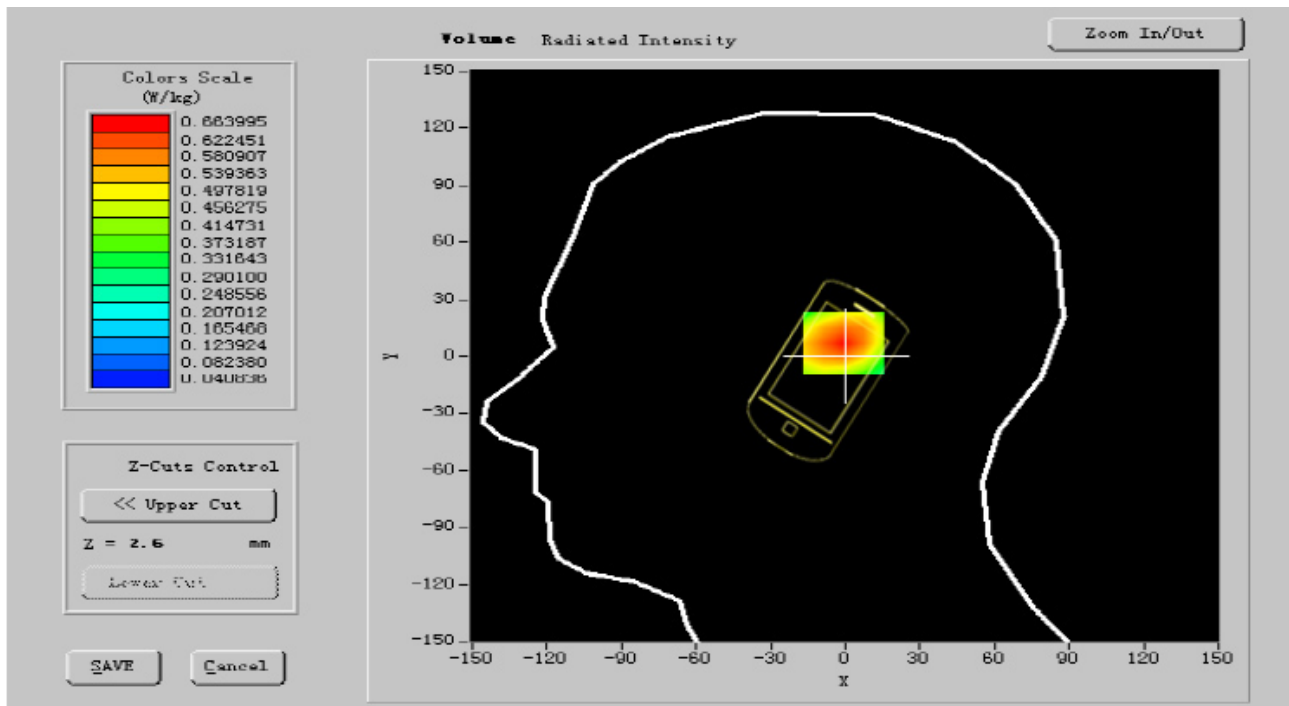
Crest factor:

1:1

## SURFACE SAR



## VOLUME SAR



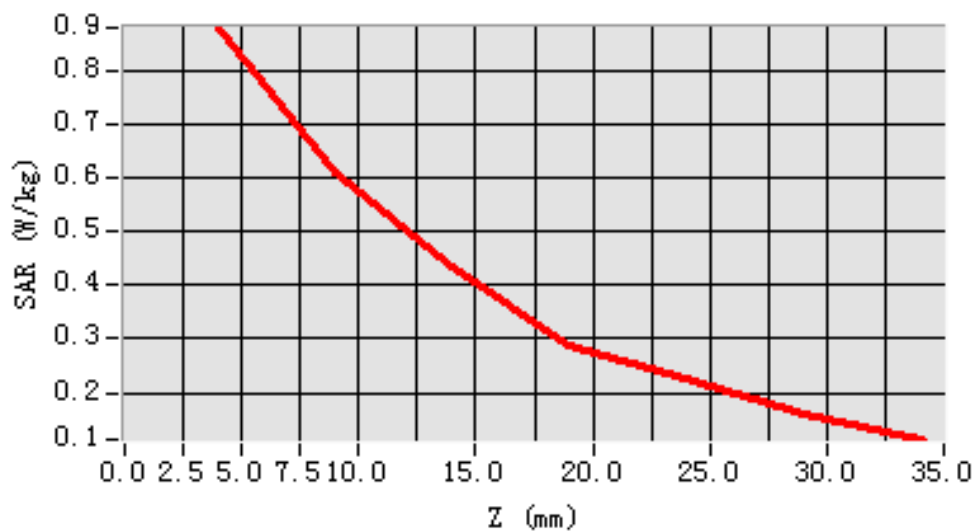


**Maximum location: X=-13.00, Y=-3.00**

SAR 10g (W/Kg)	0.089874
SAR 1g (W/Kg)	0.134785

**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>	802.11g
<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>40.423651</b>
<b>Relative permittivity (imaginary part)</b>	<b>13.35741</b>
<b>Conductivity (S/m)</b>	<b>1.851741</b>
<b>Variation (%)</b>	<b>1.350000</b>
<b>Ambient Temperature:</b>	<b>21 °C</b>
<b>Liquid Temperature:</b>	<b>20 °C</b>



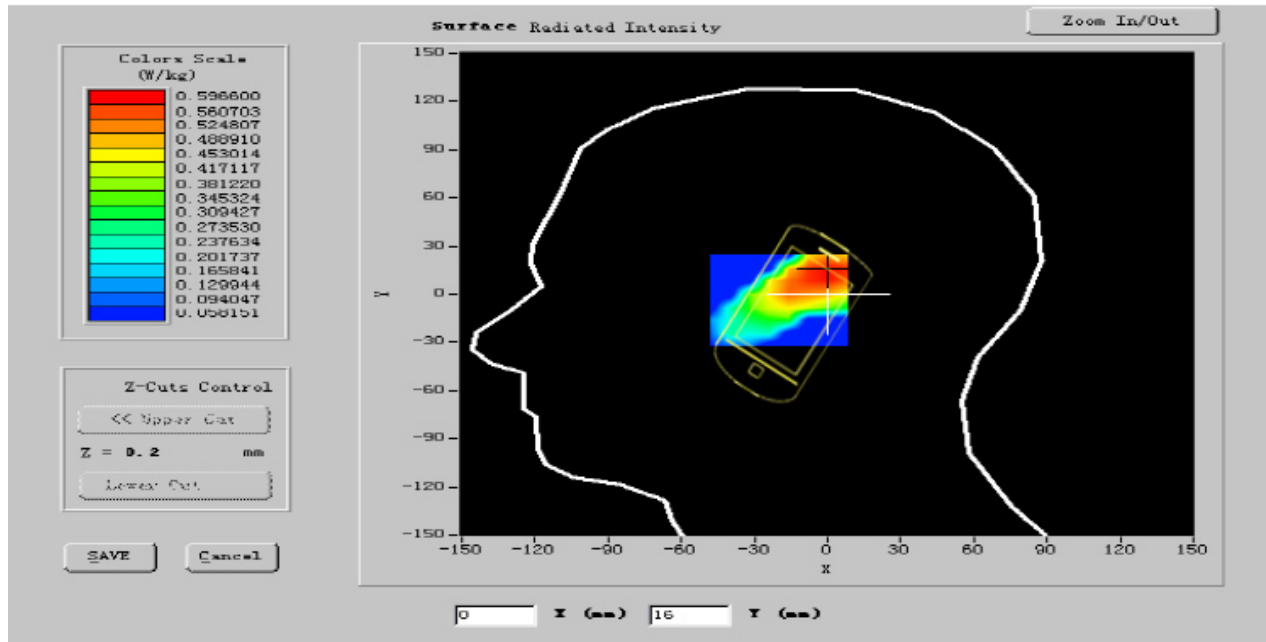
ConvF:

51.18,53.87,70.48

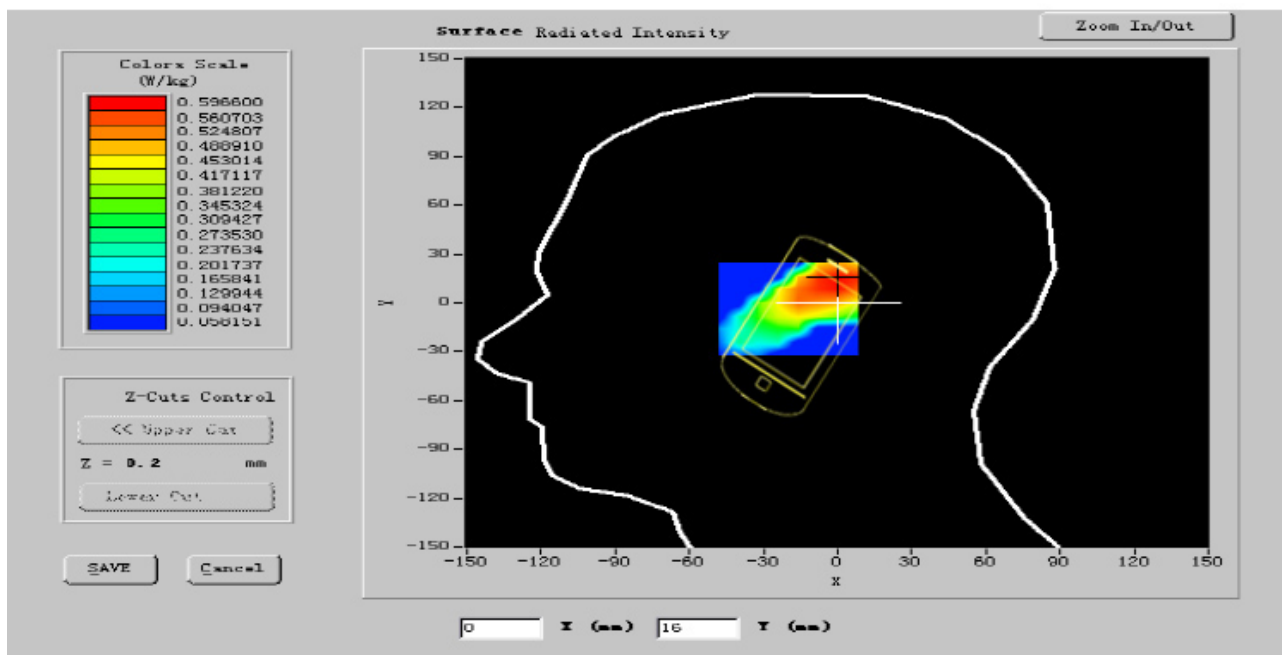
Crest factor:

1:1

## SURFACE SAR



## VOLUME SAR





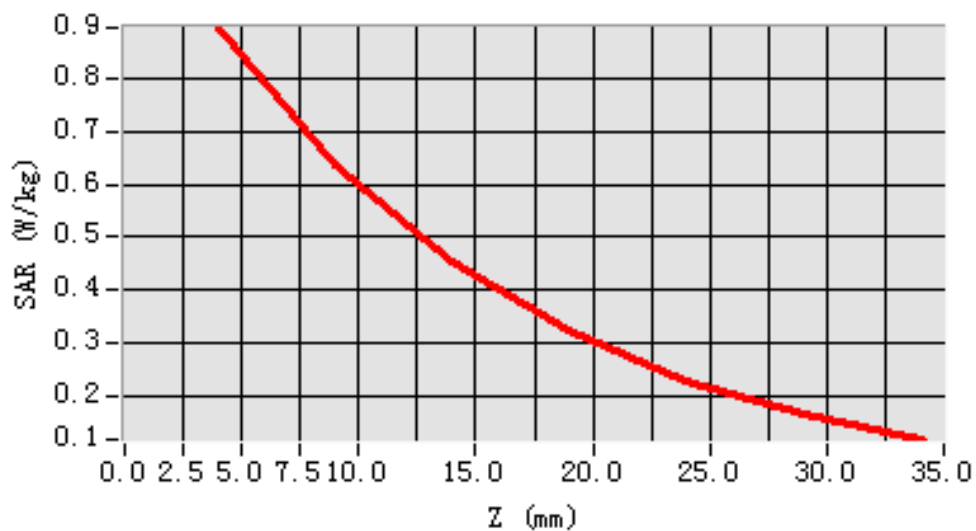


**Maximum location: X=-13.00, Y=-3.00**

SAR 10g (W/Kg)	0.098714
SAR 1g (W/Kg)	0.178414

**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>	802.11g
<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>40.354108</b>
<b>Relative permittivity (imaginary part)</b>	<b>13.35710</b>
<b>Conductivity (S/m)</b>	<b>1.856720</b>
<b>Variation (%)</b>	<b>0.490000</b>
<b>Ambient Temperature:</b>	<b>21 °C</b>
<b>Liquid Temperature:</b>	<b>20 °C</b>



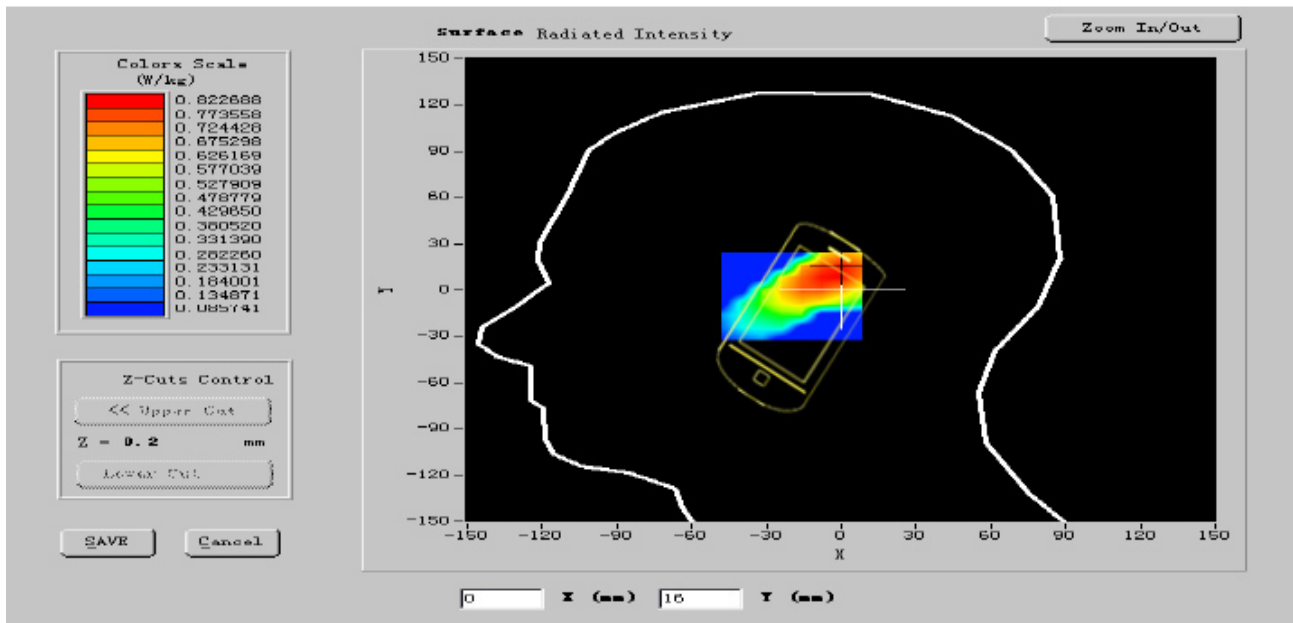
ConvF:

51.18,53.87,70.48

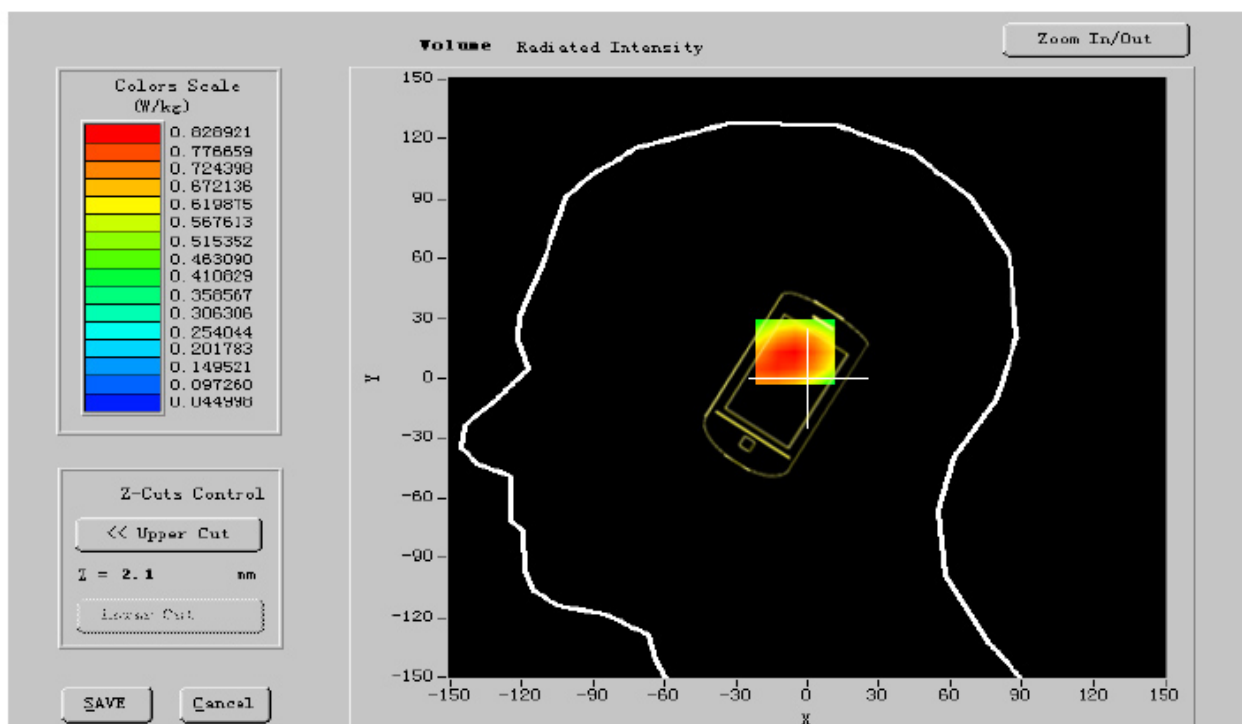
Crest factor:

1:1

## SURFACE SAR



## VOLUME SAR



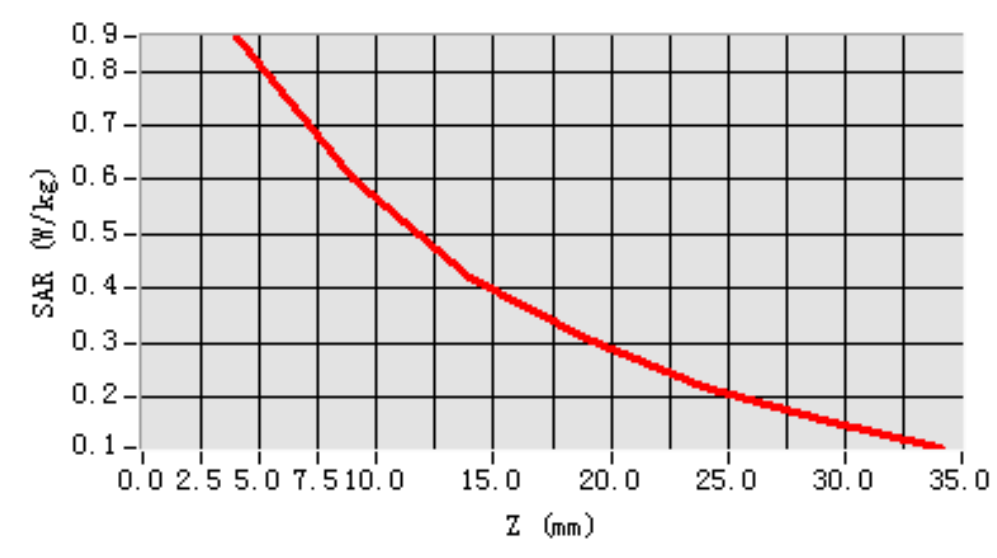


**Maximum location: X=-13.00, Y=-3.00**

SAR 10g (W/Kg)	0.074120
SAR 1g (W/Kg)	0.098742

**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>	802.11g
<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>



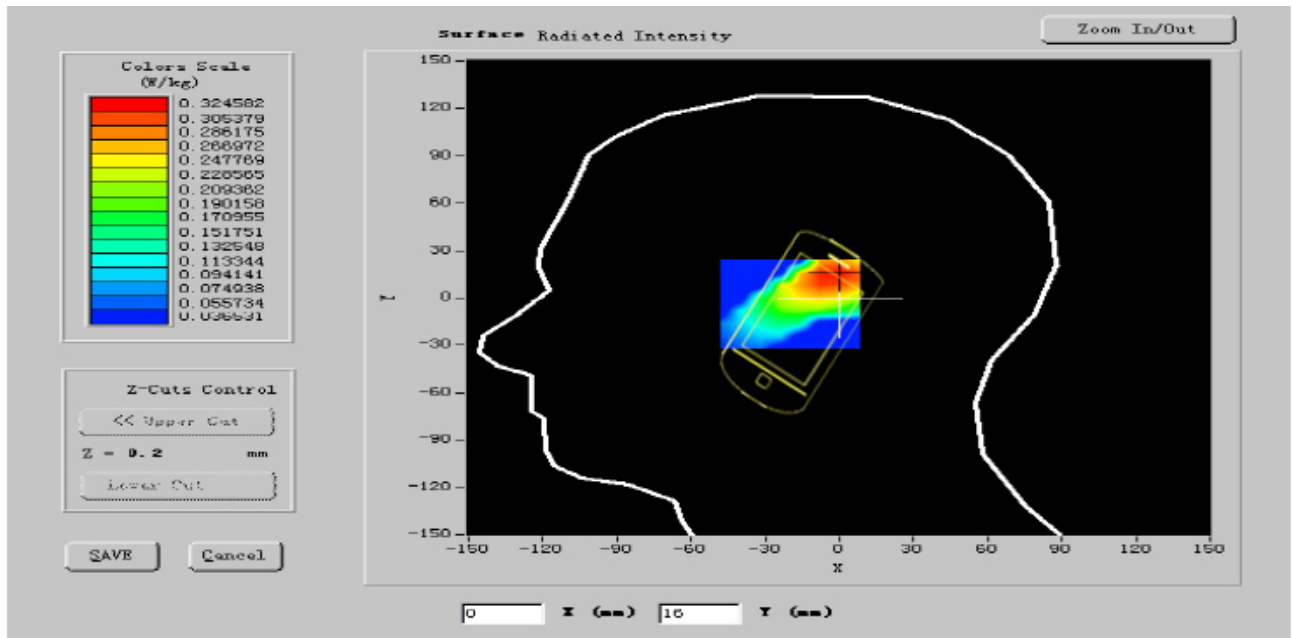
ConvF:

51.18,53.87,70.48

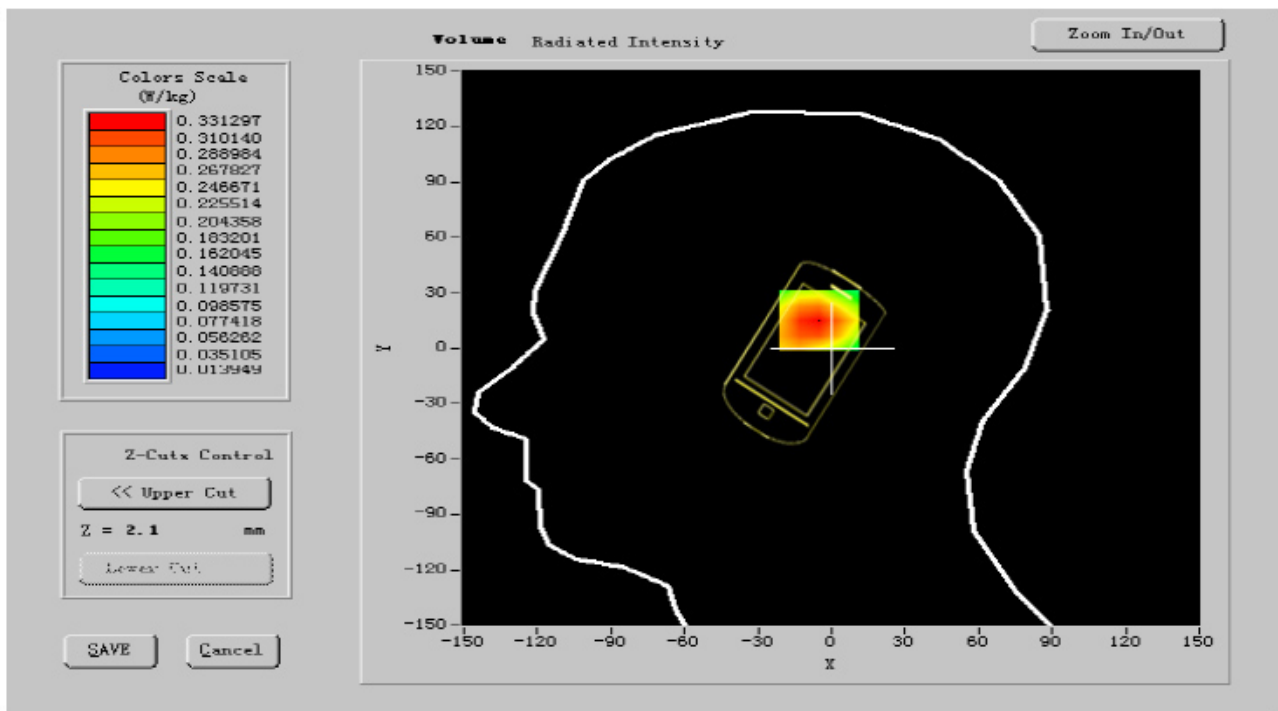
Crest factor:

1:1

## SURFACE SAR



## VOLUME SAR



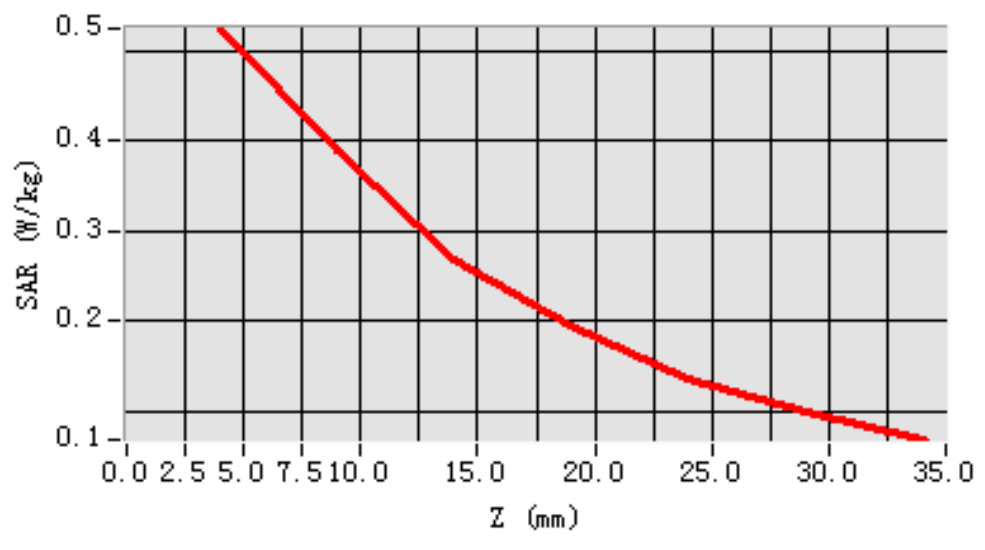


**Maximum location: X=-13.00, Y=-3.00**

SAR 10g (W/Kg)	0.112540
SAR 1g (W/Kg)	0.168740

**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>	802.11g
<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>40.432015</b>
<b>Relative permittivity (imaginary part)</b>	<b>13.291614</b>
<b>Conductivity (S/m)</b>	<b>1.848710</b>
<b>Variation (%)</b>	<b>-1.100000</b>
<b>Ambient Temperature:</b>	<b>21 °C</b>
<b>Liquid Temperature:</b>	<b>20 °C</b>





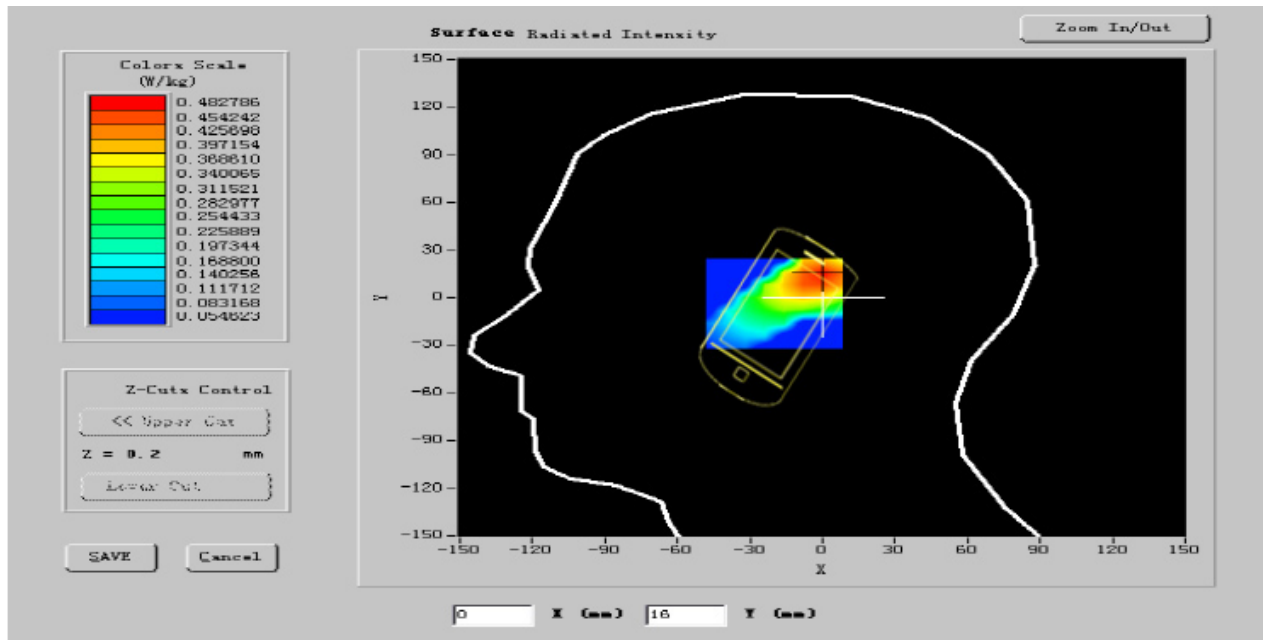
ConvF:

51.18,53.87,70.48

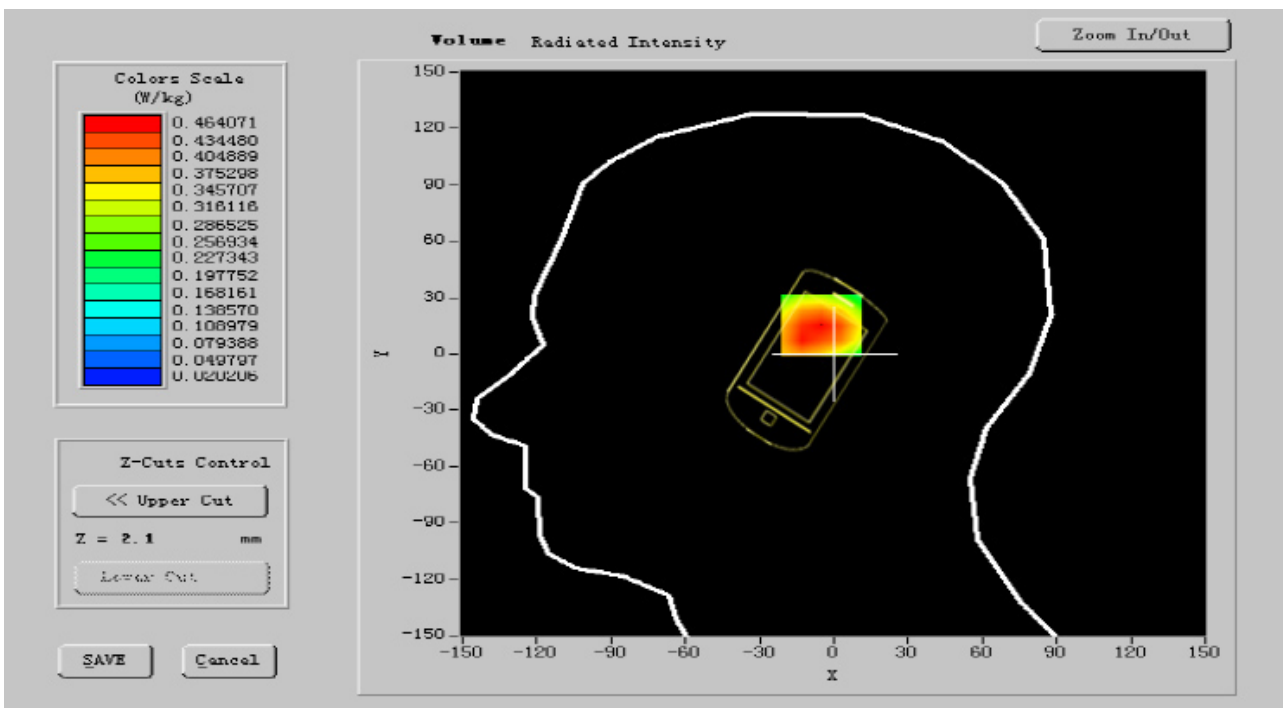
Crest factor:

1:1

## SURFACE SAR



## VOLUME SAR



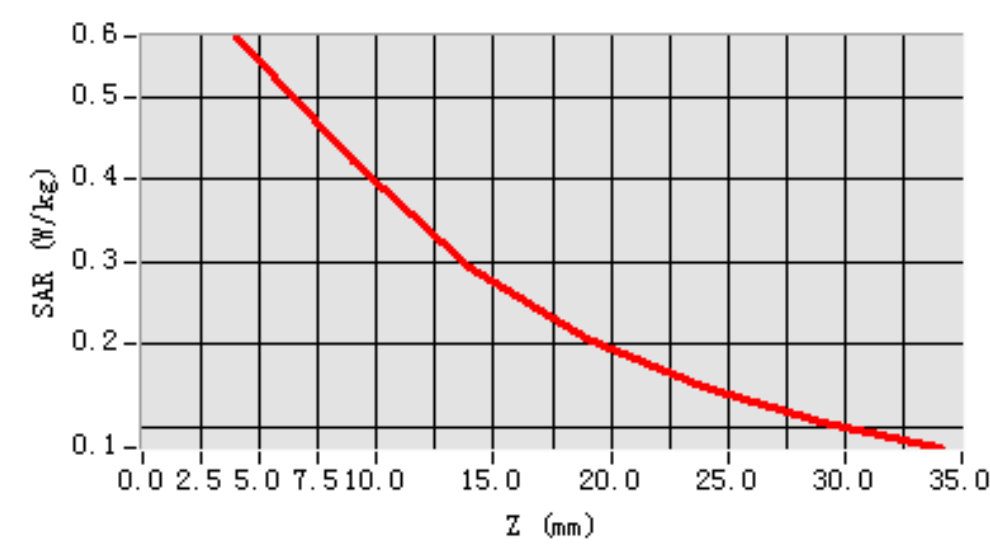


**Maximum location: X=-13.00, Y=-3.00**

SAR 10g (W/Kg)	0.125743
SAR 1g (W/Kg)	0.223598

**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>	802.11g
<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>40.430141</b>
<b>Relative permittivity (imaginary part)</b>	<b>13.374121</b>
<b>Conductivity (S/m)</b>	<b>1.854970</b>
<b>Variation (%)</b>	<b>-1.110000</b>
<b>Ambient Temperature:</b>	<b>21 °C</b>
<b>Liquid Temperature:</b>	<b>20 °C</b>



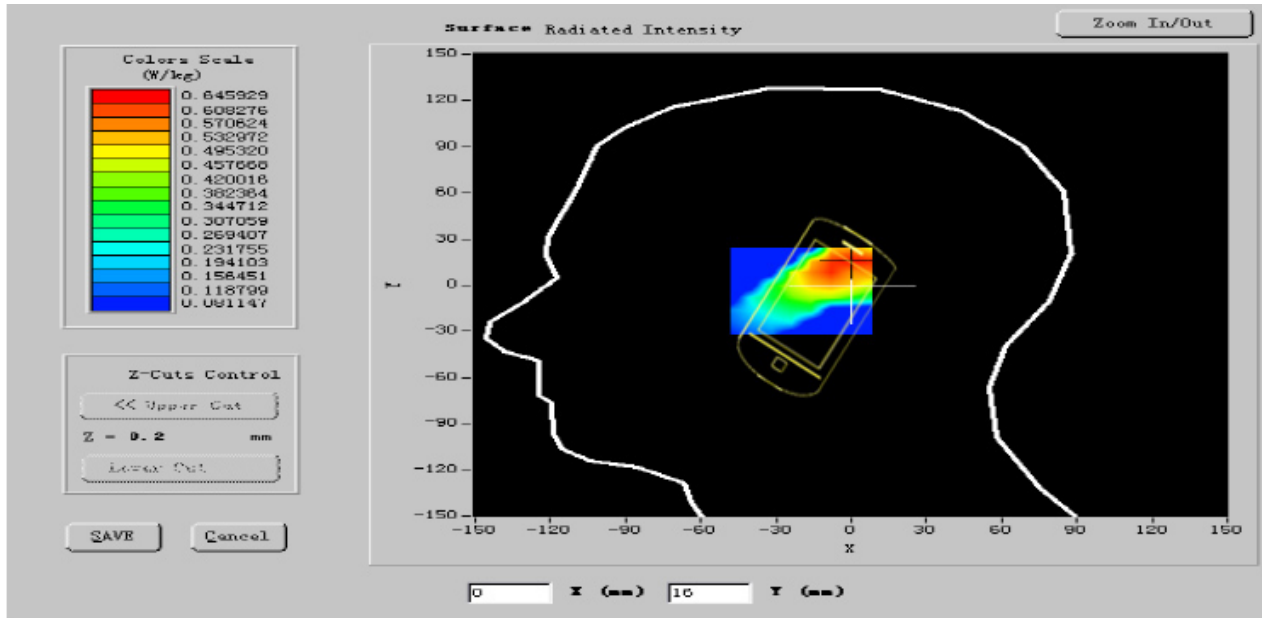
ConvF:

51.18,53.87,70.48

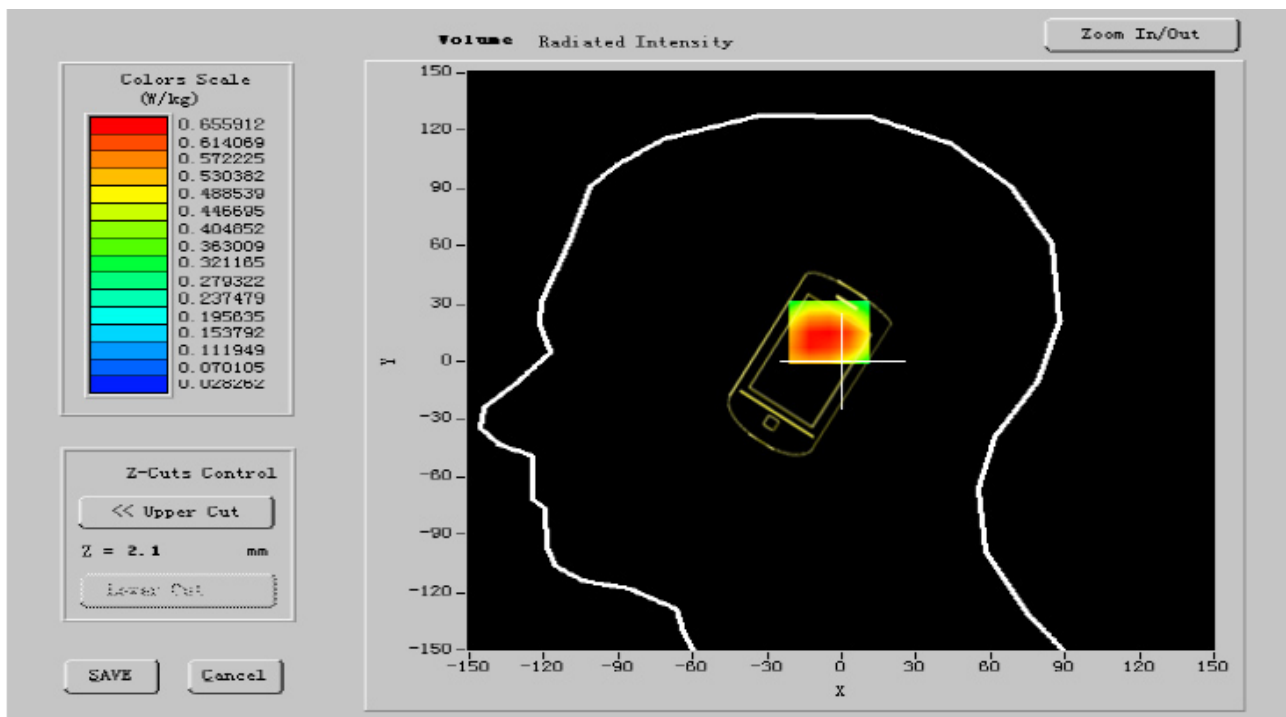
Crest factor:

1:1

## SURFACE SAR



## VOLUME SAR



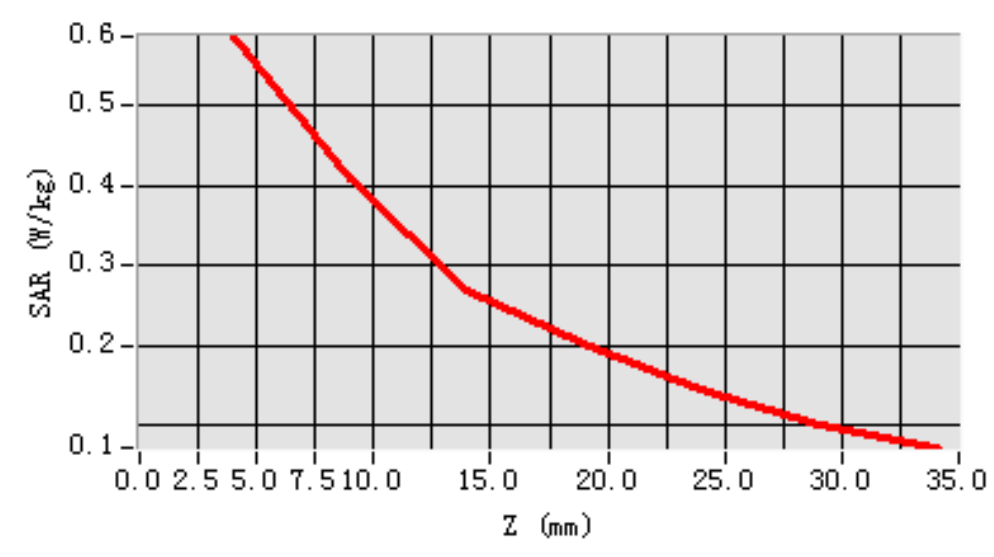


**Maximum location: X=-13.00, Y=-3.00**

SAR 10g (W/Kg)	0.155746
SAR 1g (W/Kg)	0.234785

**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>	802.11g
<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>51.518744</b>
<b>Relative permittivity (imaginary part)</b>	<b>13.36810</b>
<b>Conductivity (S/m)</b>	<b>1.959874</b>
<b>Variation (%)</b>	<b>-0.140000</b>
<b>Ambient Temperature:</b>	<b>21 °C</b>
<b>Liquid Temperature:</b>	<b>20 °C</b>



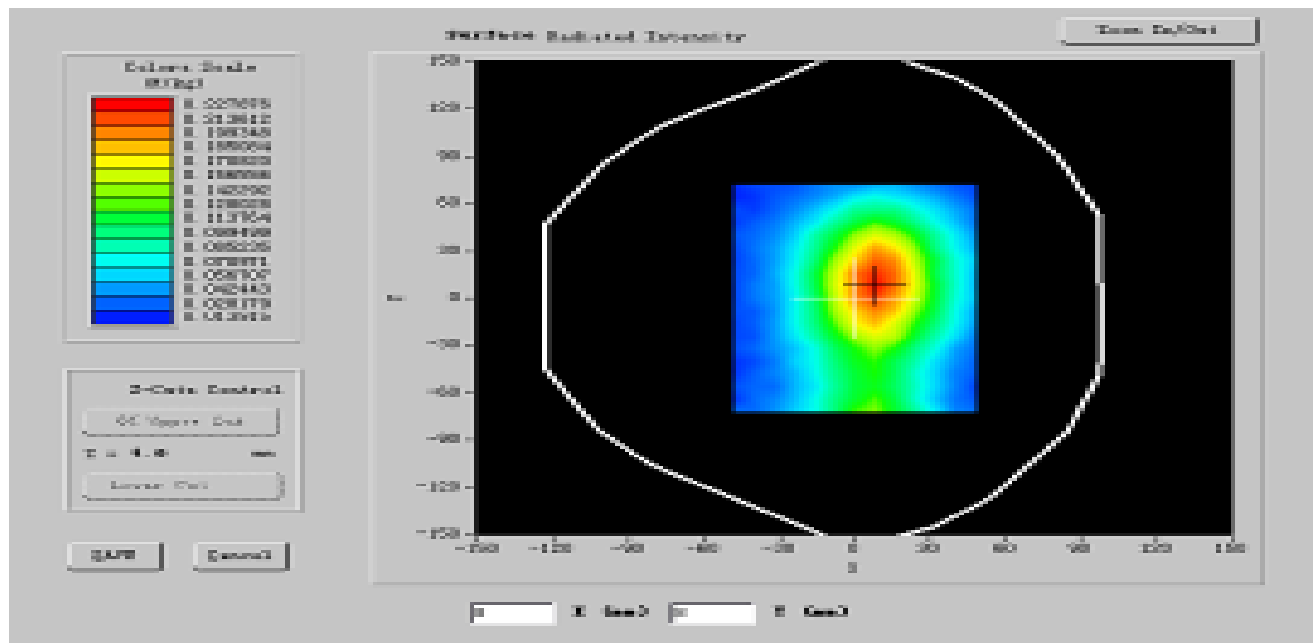
ConvF:

50.35,52.98,69.78

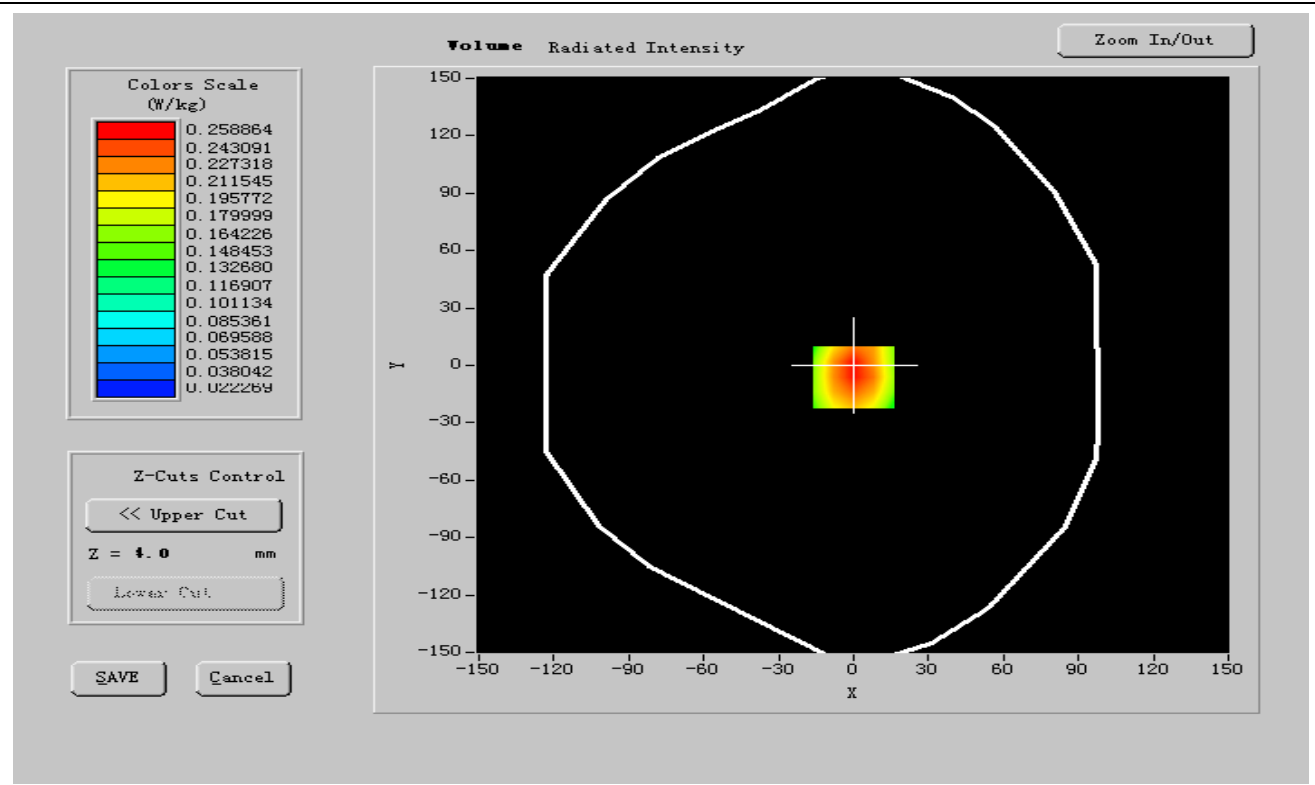
Crest factor:

1:1

## SURFACE SAR



## VOLUME SAR



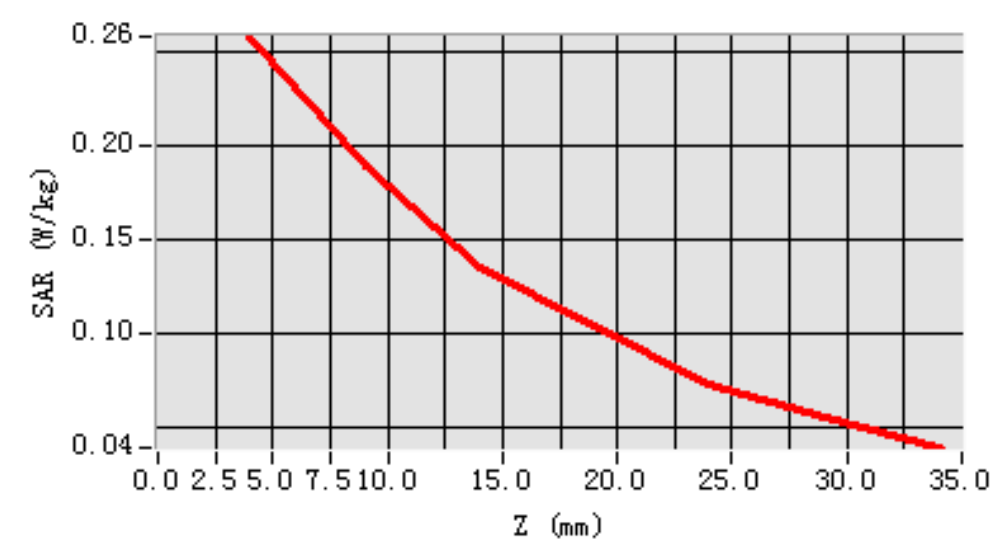


**Maximum location: X=-13.00, Y=-3.00**

SAR 10g (W/Kg)	0.048712
SAR 1g (W/Kg)	0.068741

**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>	802.11g
<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>51.521000</b>
<b>Relative permittivity (imaginary part)</b>	<b>13.357011</b>
<b>Conductivity (S/m)</b>	<b>1.959871</b>
<b>Variation (%)</b>	<b>-0.600000</b>
<b>Ambient Temperature:</b>	<b>21 °C</b>
<b>Liquid Temperature:</b>	<b>20 °C</b>



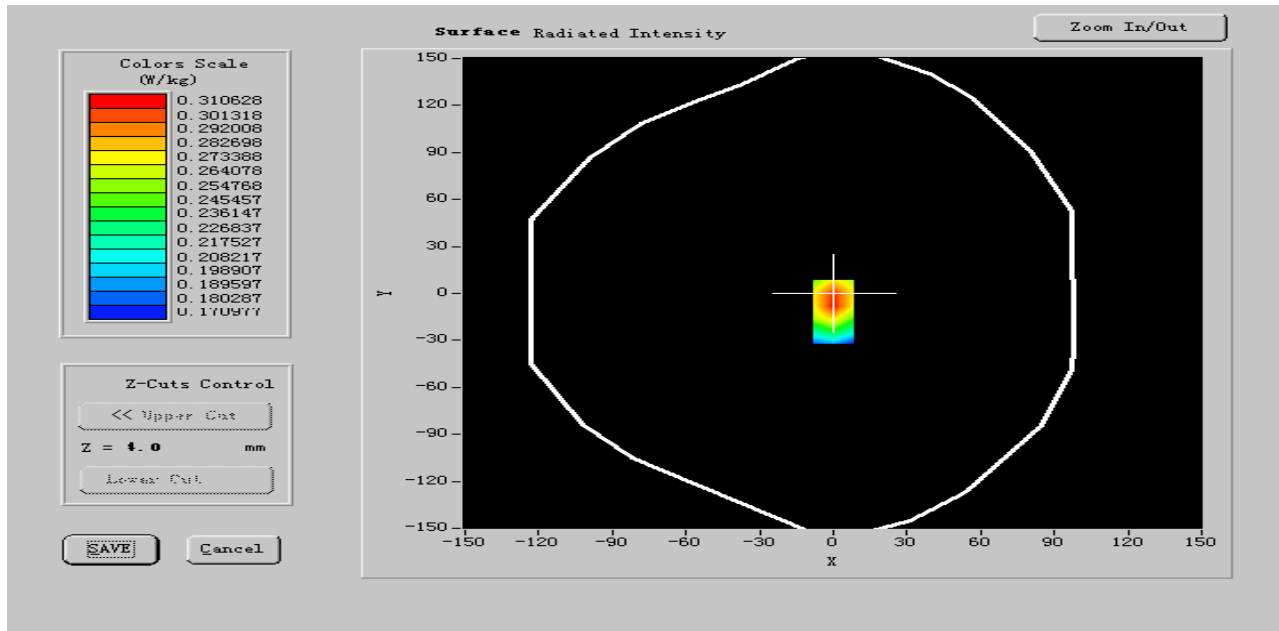
ConvF:

50.35,52.98,69.78

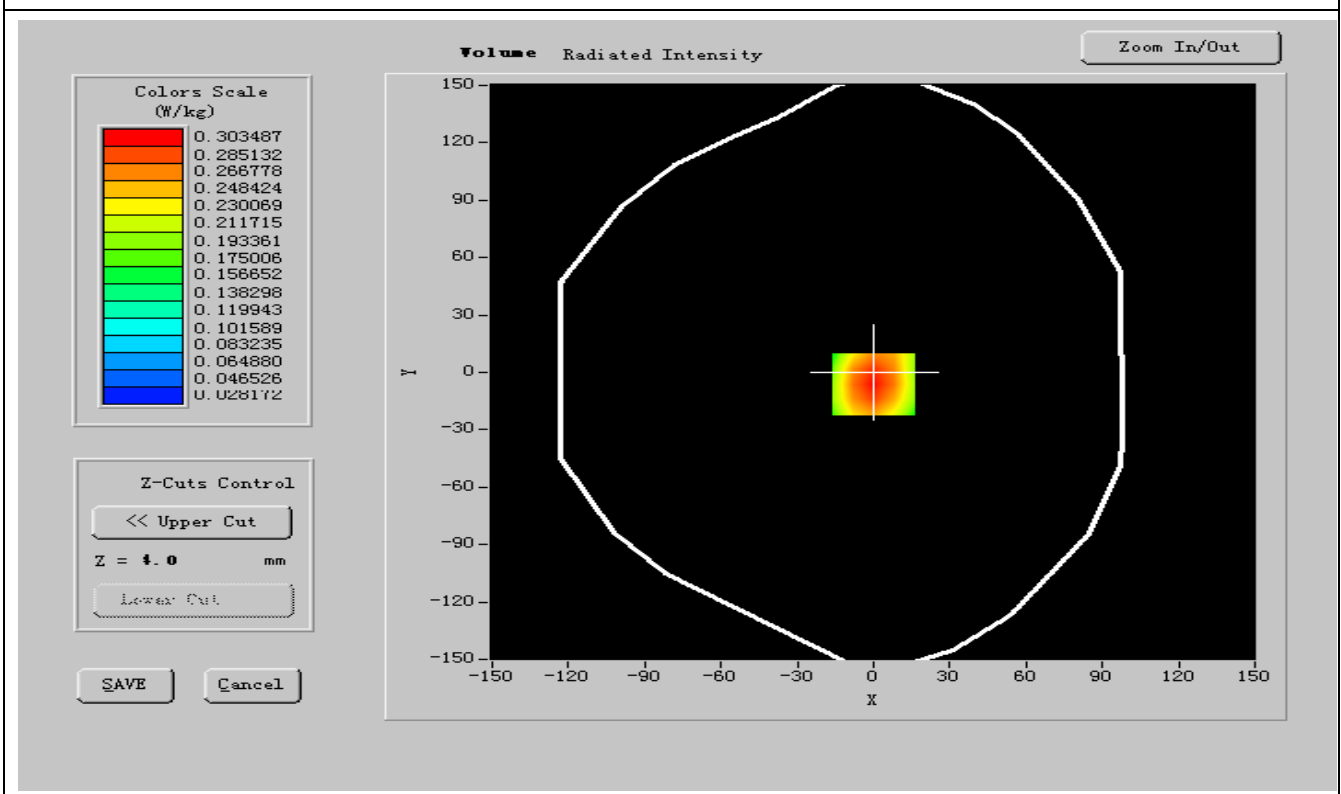
Crest factor:

1:1

## SURFACE SAR



## VOLUME SAR



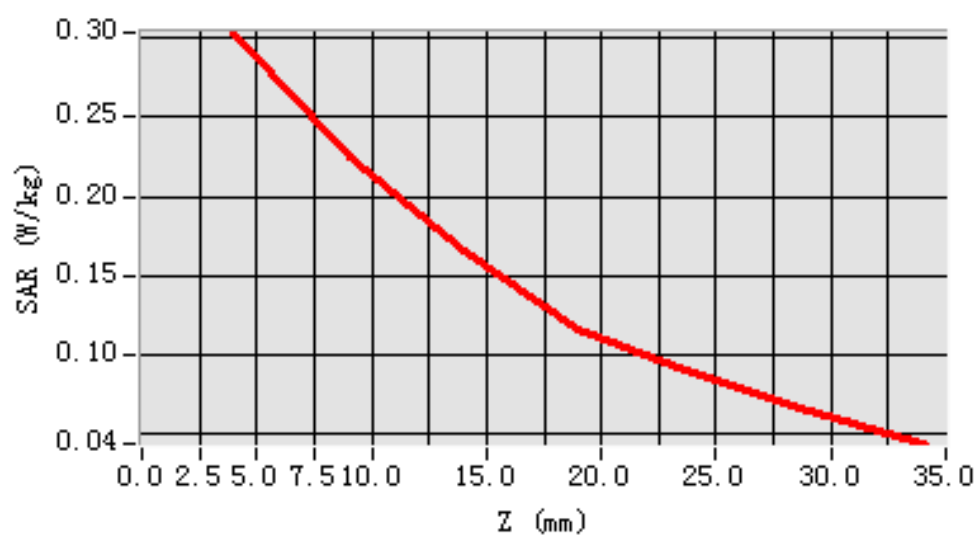


**Maximum location: X=-13.00, Y=-3.00**

SAR 10g (W/Kg)	0.054712
SAR 1g (W/Kg)	0.058987

**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>	802.11g
<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>



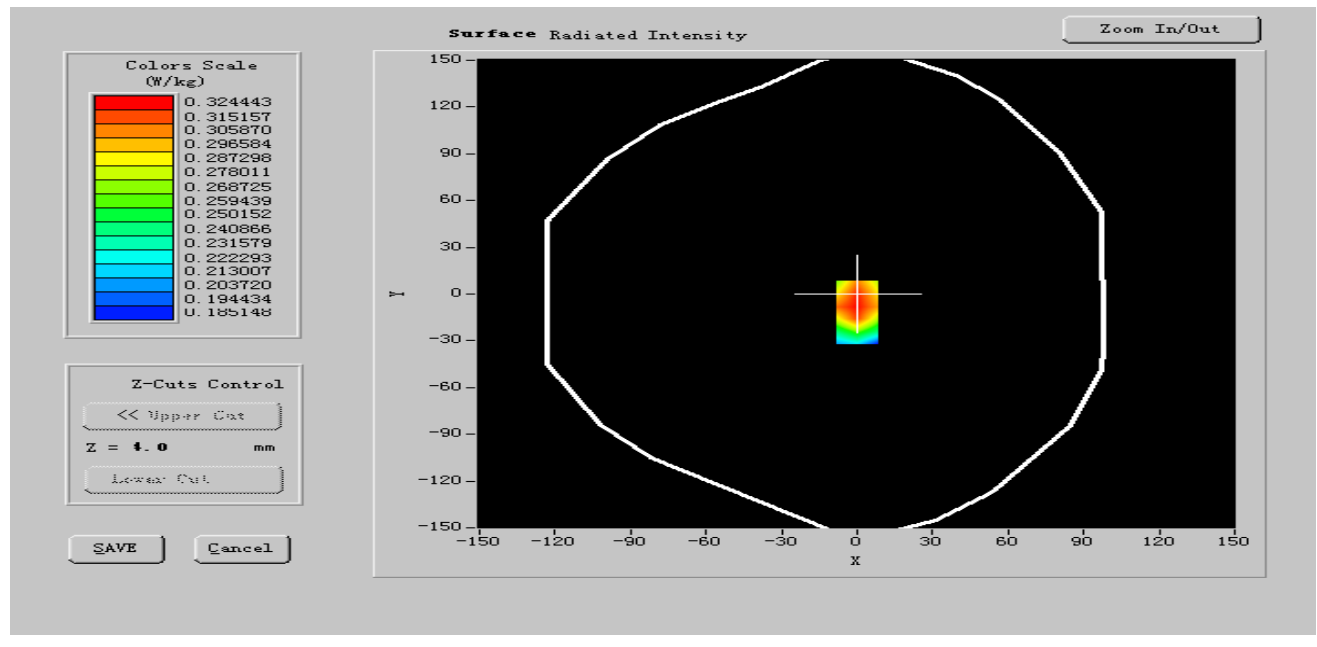
ConvF:

50.35,52.98,69.78

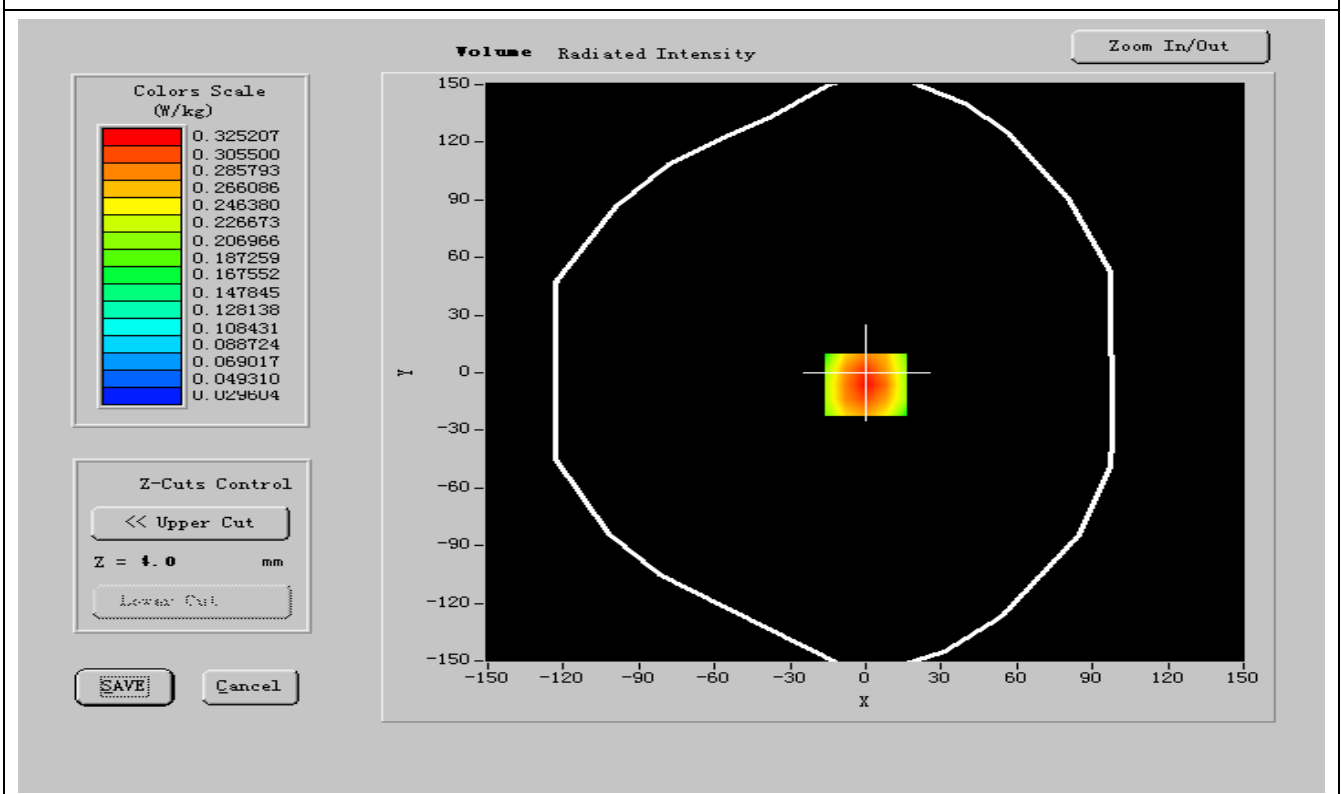
Crest factor:

1:1

## SURFACE SAR



## VOLUME SAR



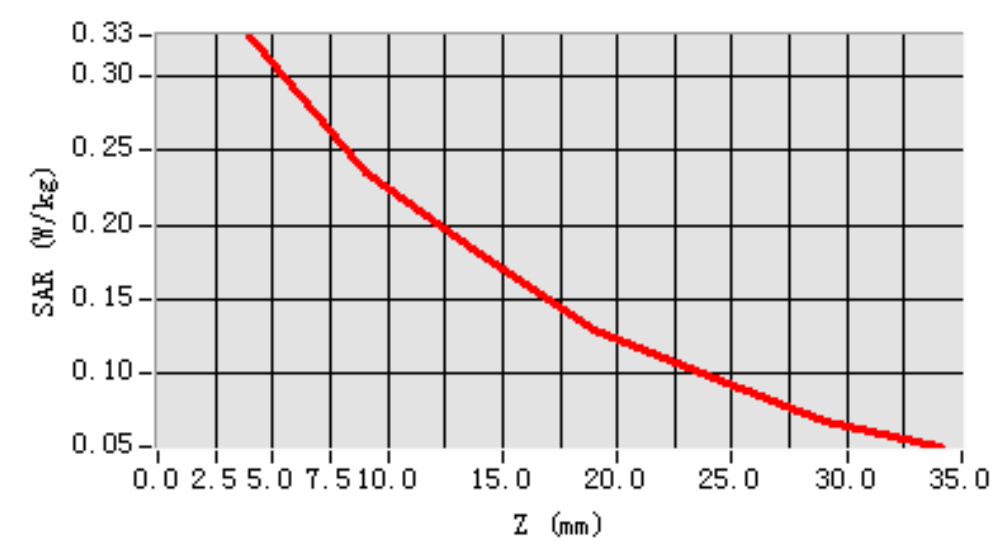


**Maximum location: X=-13.00, Y=-3.00**

SAR 10g (W/Kg)	0.064751
SAR 1g (W/Kg)	0.098727

**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>	802.11g
<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

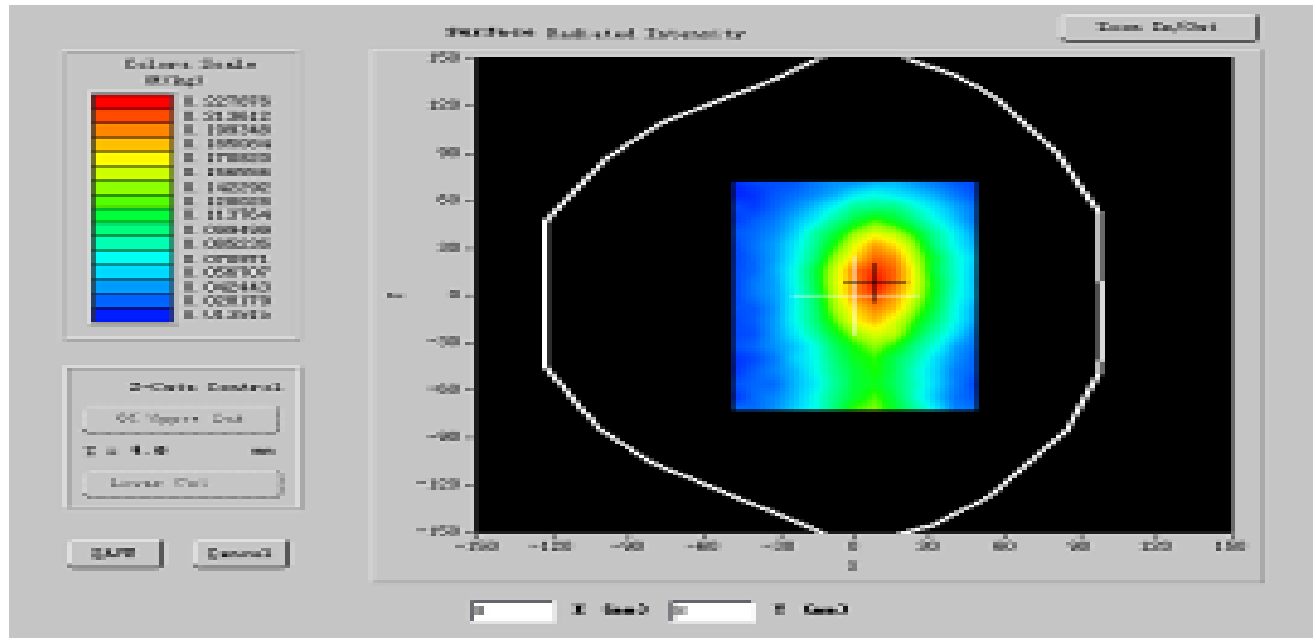
<b>Frequency (MHz)</b>	<b>2412.000000</b>
<b>Relative permittivity (real part)</b>	<b>51.526981</b>
<b>Relative permittivity (imaginary part)</b>	<b>13.357411</b>
<b>Conductivity (S/m)</b>	<b>1.957404</b>
<b>Variation (%)</b>	<b>-0.110000</b>
<b>Ambient Temperature:</b>	<b>21 °C</b>
<b>Liquid Temperature:</b>	<b>20 °C</b>
<b>ConvF:</b>	<b>50.35,52.98,69.78</b>



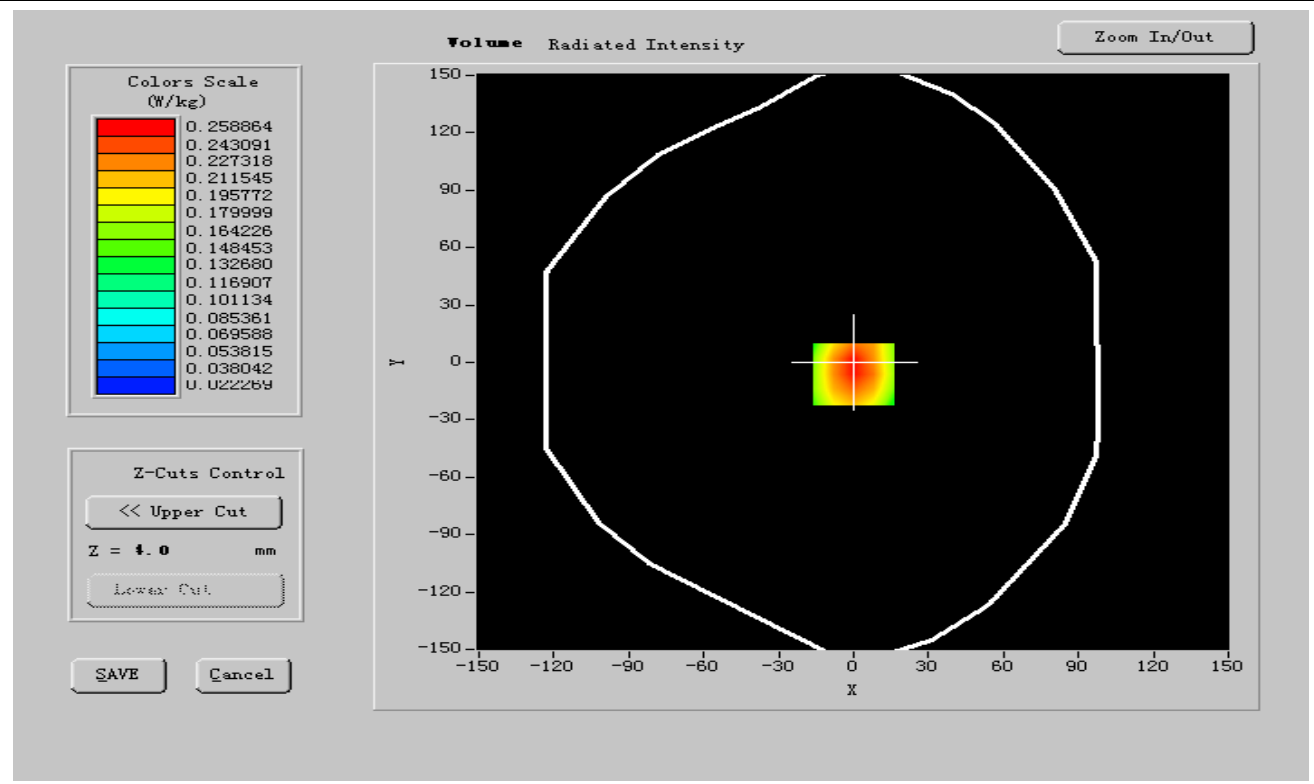
Crest factor:

1:1

## SURFACE SAR



## VOLUME SAR





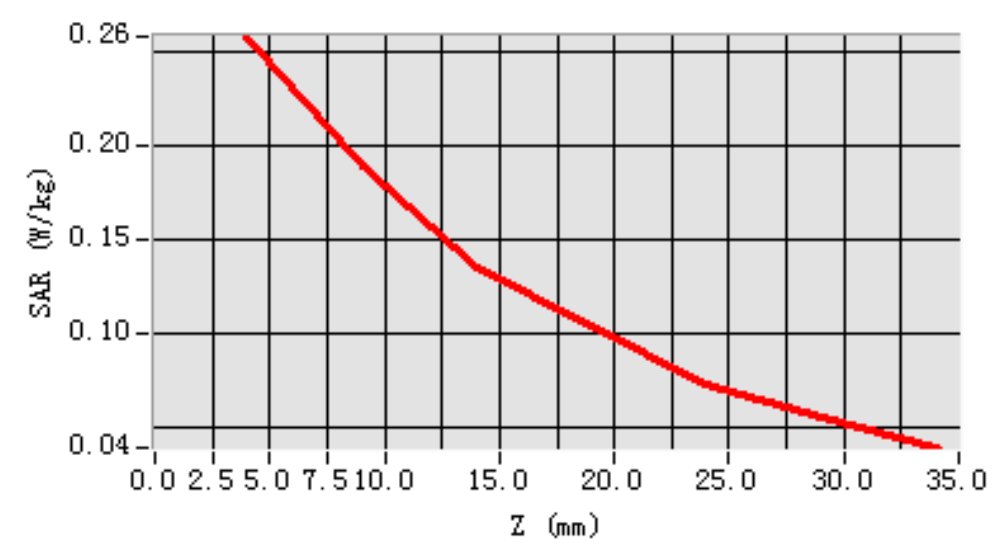


**Maximum location: X=-13.00, Y=-3.00**

SAR 10g (W/Kg)	0.042354
SAR 1g (W/Kg)	0.078970

**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>	802.11g
<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>51.512500</b>
<b>Relative permittivity (imaginary part)</b>	<b>13.358011</b>
<b>Conductivity (S/m)</b>	<b>1.954720</b>
<b>Variation (%)</b>	<b>-0.600000</b>
<b>Ambient Temperature:</b>	<b>21 °C</b>
<b>Liquid Temperature:</b>	<b>20 °C</b>



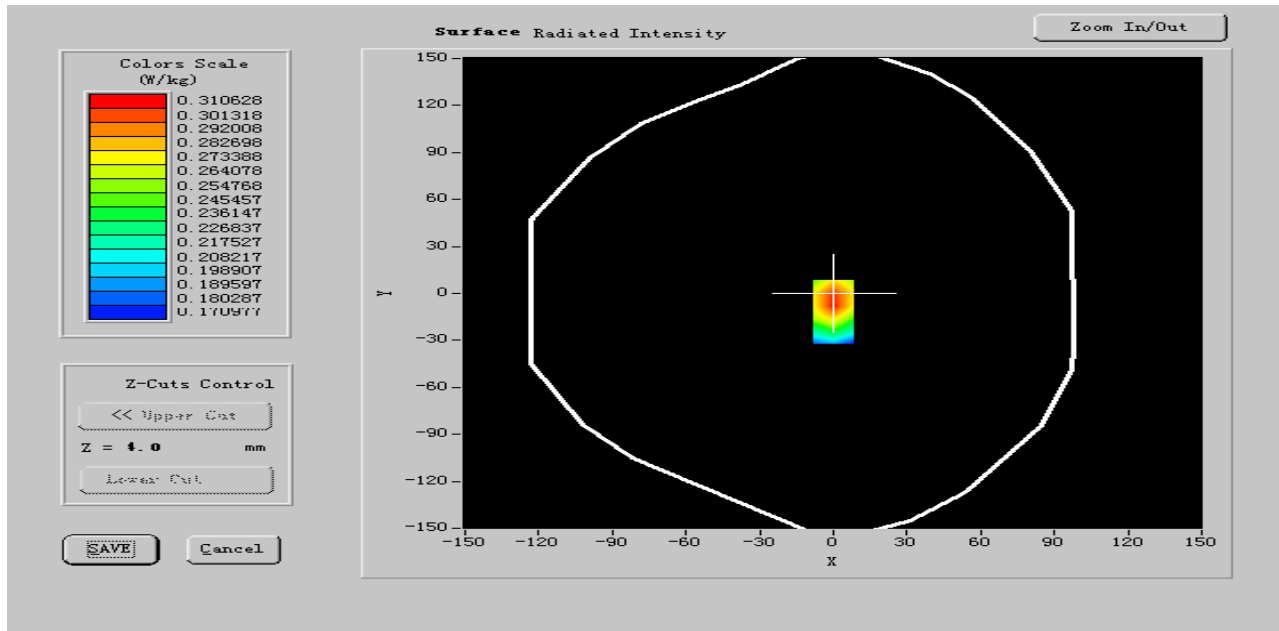
ConvF:

50.35,52.98,69.78

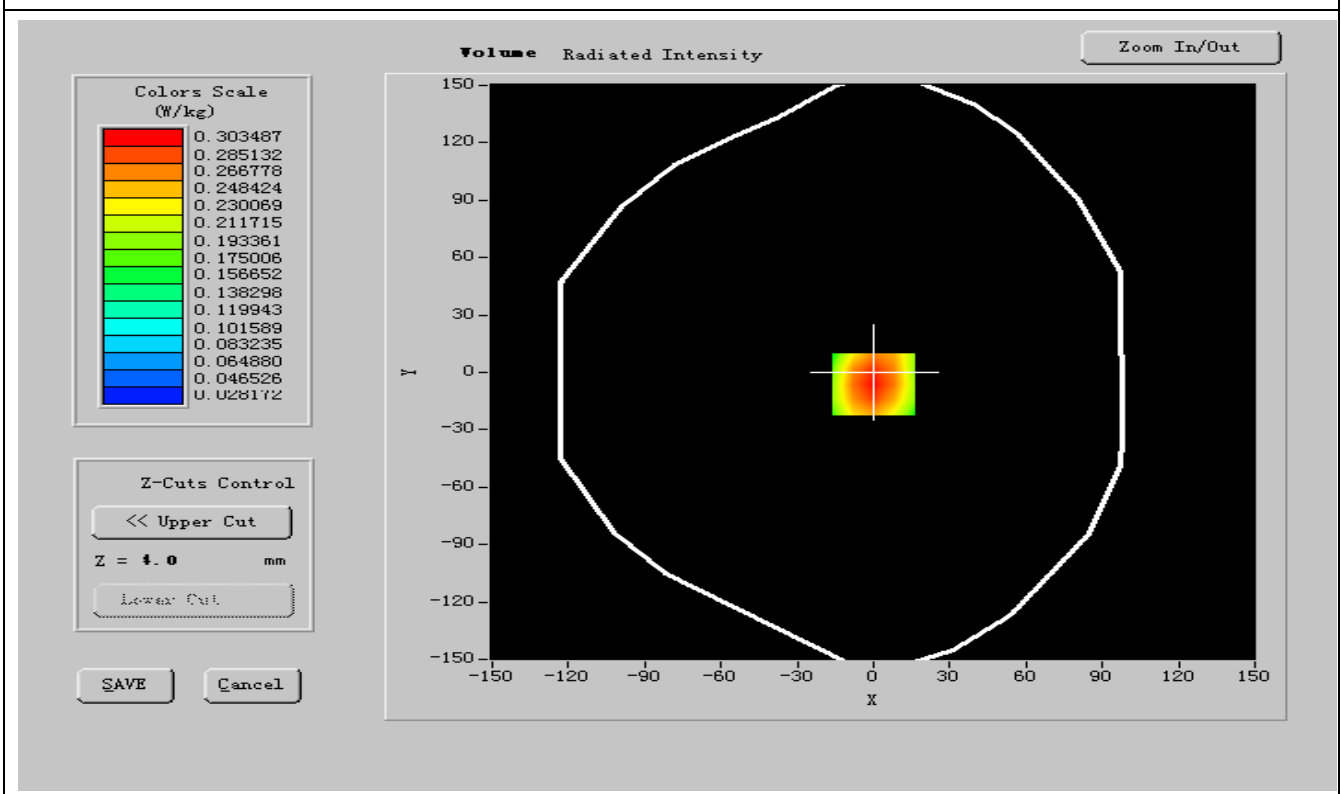
Crest factor:

1:1

## SURFACE SAR



## VOLUME SAR



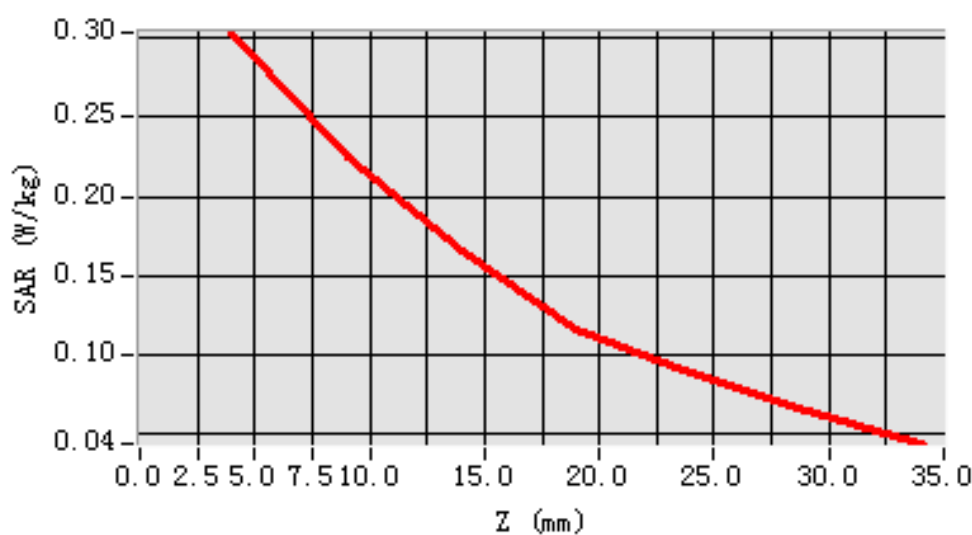


**Maximum location: X=-13.00, Y=-3.00**

SAR 10g (W/Kg)	0.077461
SAR 1g (W/Kg)	0.106845

**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>	802.11g
<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>



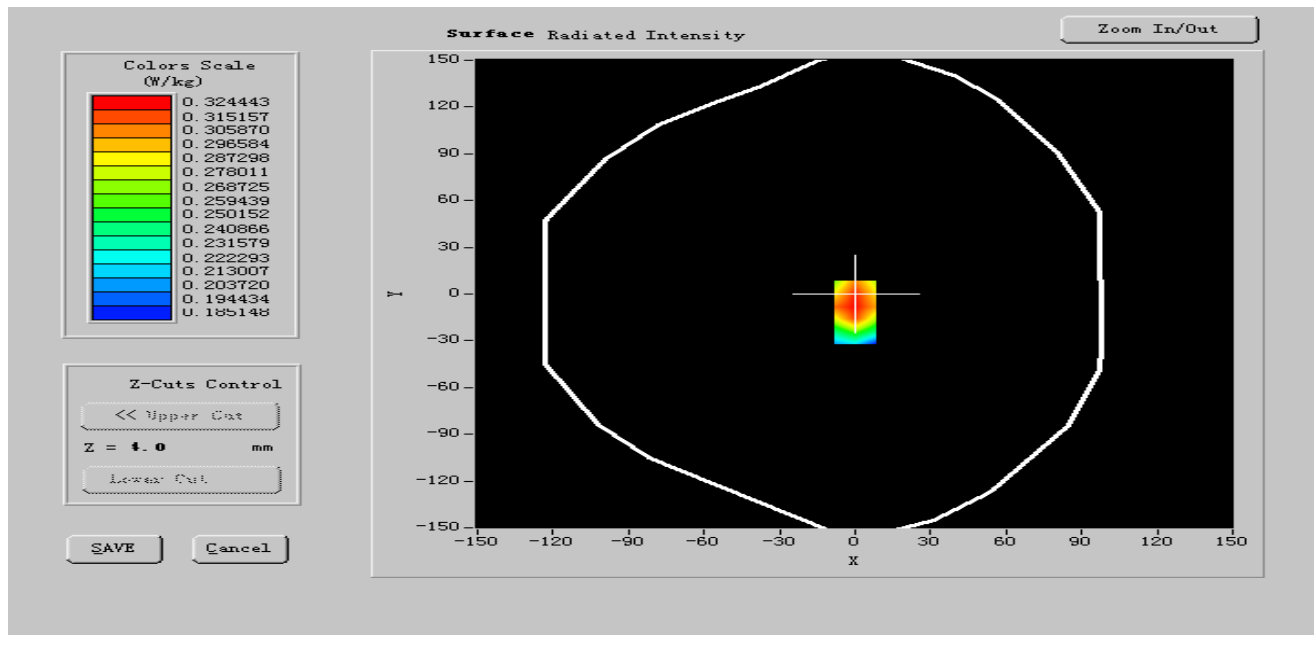
ConvF:

50.35,52.98,69.78

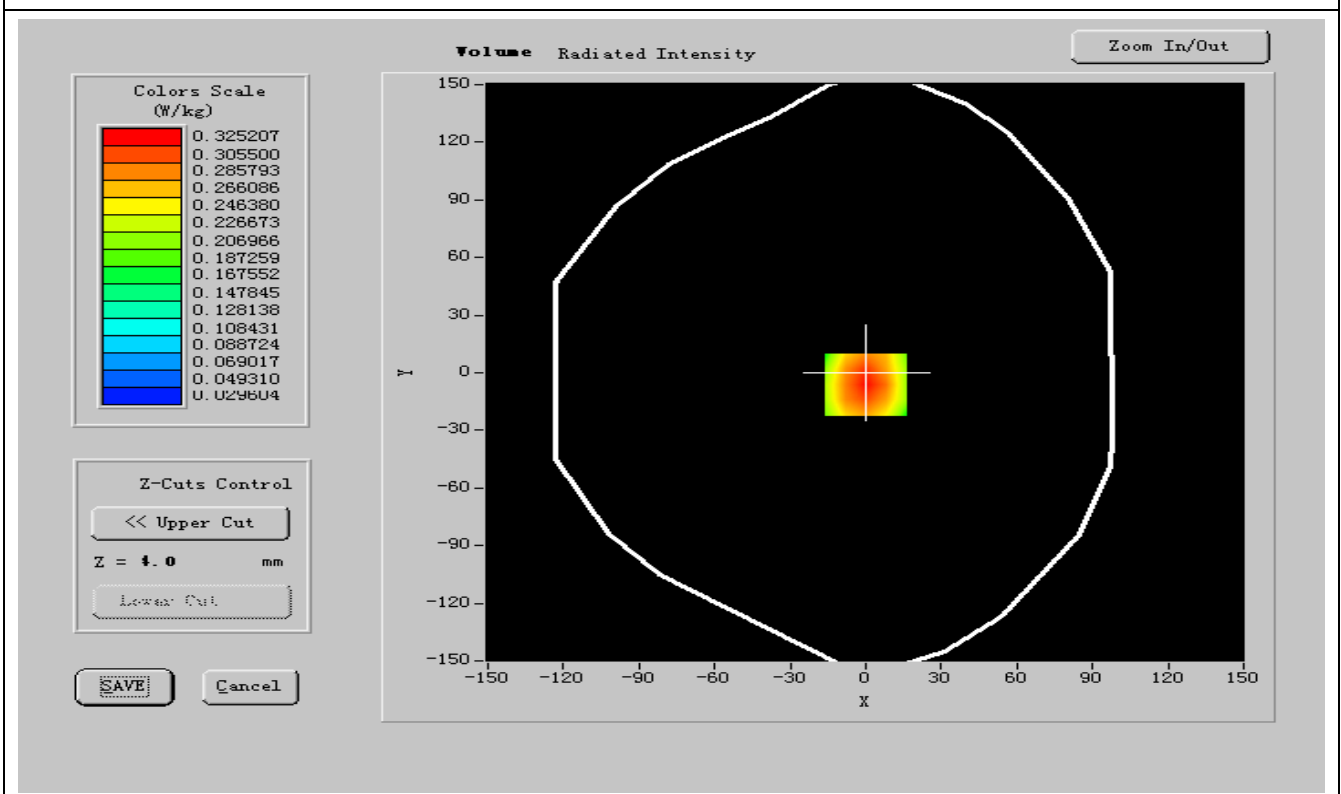
Crest factor:

1:1

## SURFACE SAR



## VOLUME SAR





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

SAR 10g (W/Kg)	0.057513
SAR 1g (W/Kg)	0.087811

**Z Axis Scan**

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

