



**MEASUREMENT 1**

**Date of measurement: 02/22/2011**

**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>	GSM1900
<b>Channels</b>	Low
<b>Signal</b>	GSM

**B. Instrumentations.**

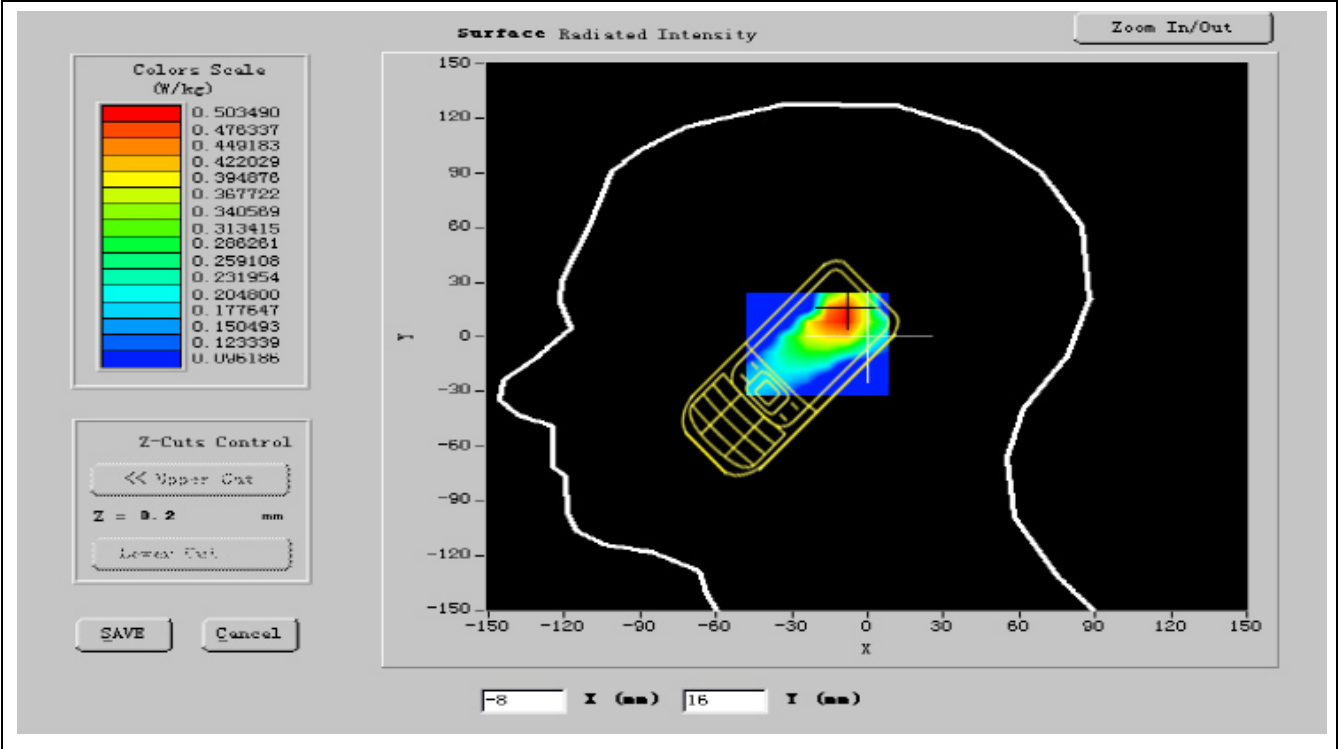
<b>PC</b>	<b>HP (Pentium(R) V3.06GHz, SN:375052-AA1)</b>	<b>Calibration Due: N/A</b>
<b>Wireless Communication Test Set</b>	<b>R&amp;S (CMU200, SN:B23-03291)</b>	<b>Calibration Due: 05/25/2011</b>
<b>Network Analyzer</b>	<b>Agilent(E5071B, MY42301382)</b>	<b>Calibration Due: 03/24/2011</b>
<b>Voltmeter</b>	<b>Keithley (2000, SN:1015843)</b>	<b>Calibration Due: 05/25/2011</b>
<b>Signal Generator</b>	<b>Agilent (E8257C, SN:MY43321570)</b>	<b>Calibration Due: 03/24/2011</b>
<b>Amplifier</b>	<b>Mini-Circuits (ZHL-42, SN:110405)</b>	<b>Calibration Due: 07/29/2011</b>
<b>Power Meter</b>	<b>Agilent (E4416A, SN:QB41292714)</b>	<b>Calibration Due: 03/24/2011</b>
<b>Probe</b>	<b>Antennessa (SN:SN_1109_EP_100)</b>	<b>Calibration Due: 05/04/2011</b>
<b>DIPOLE 1900</b>	<b>Antennessa (DIPG35,SN 48/05)</b>	<b>Calibration Due: 02/09/2012</b>
<b>Phantom</b>	<b>Antennessa (SN:SN41_05_SAM29)</b>	<b>Calibration Due: N/A</b>
<b>Liquid</b>	<b>Antennessa</b>	<b>Calibration Due: N/A</b>
<b>Measurement SW</b>	<b>OPEN SAR V2.1</b>	<b>Calibration Due: N/A</b>

**C. SAR Measurement Results**

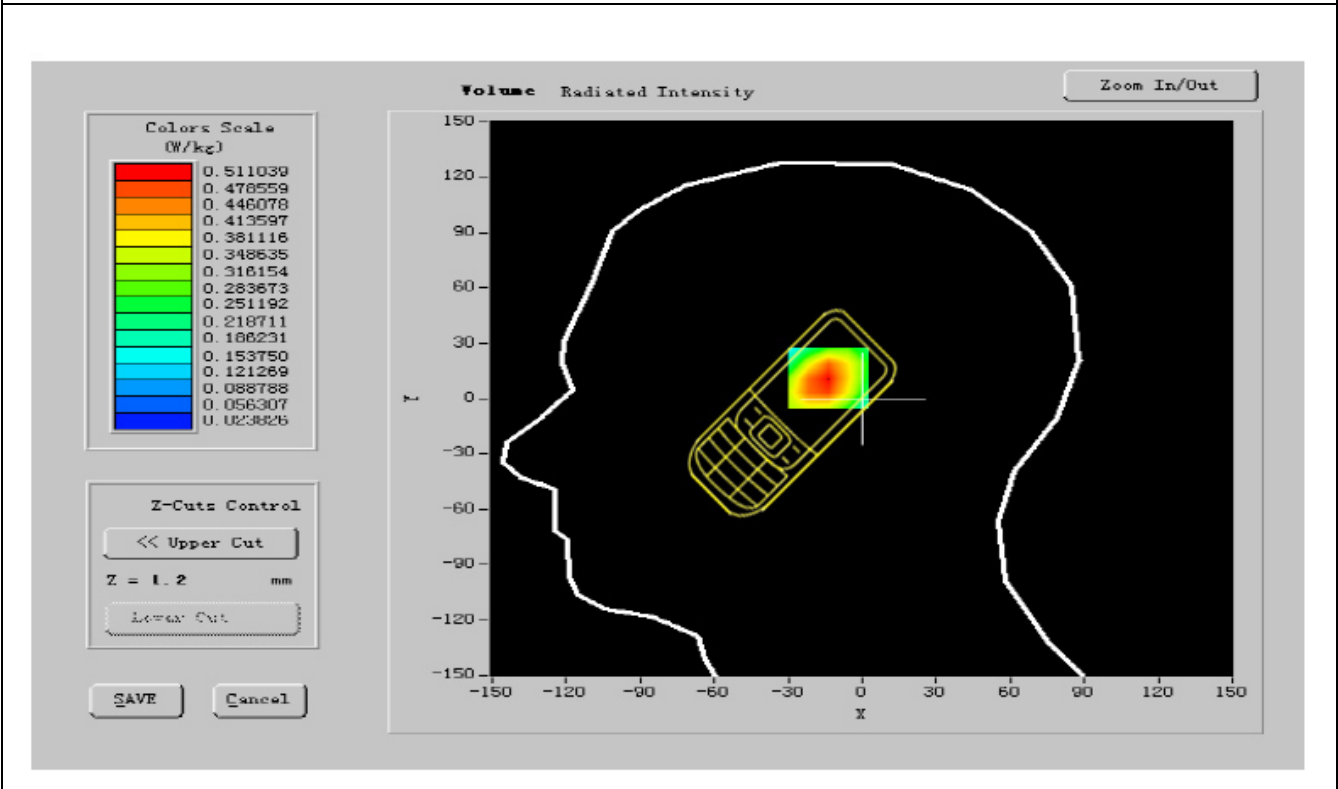
<b>Frequency (MHz)</b>	<b>1850.200000</b>
<b>Relative permittivity (real part)</b>	<b>40.213000</b>
<b>Relative permittivity (imaginary part)</b>	<b>13.584900</b>
<b>Conductivity (S/m)</b>	<b>1.410528</b>
<b>Variation (%)</b>	<b>-1.220000</b>
<b>Ambient Temperature:</b>	<b>21 °C</b>
<b>Liquid Temperature:</b>	<b>20.2 °C</b>
<b>ConvF:</b>	<b>41.05, 42.35, 55.45</b>
<b>Crest factor:</b>	<b>8:1</b>



### SURFACE SAR



### VOLUME SAR





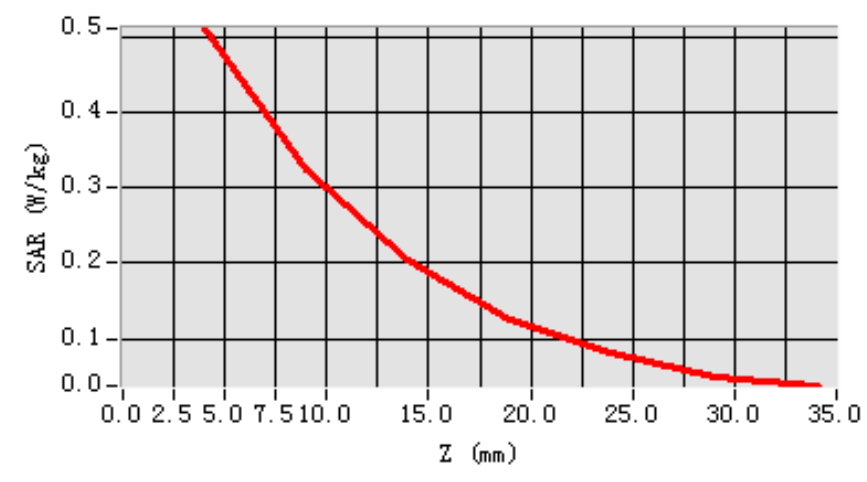
**Maximum location: X=-13.00, Y=-3.00**

SAR 10g (W/Kg)	0.352363
SAR 1g (W/Kg)	0.493473

**Z Axis Scan**

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

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





**MEASUREMENT 2**

**Date of measurement: 02/22/2011**

**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>	GSM1900
<b>Channels</b>	Middle
<b>Signal</b>	GSM

**B. Instrumentations.**

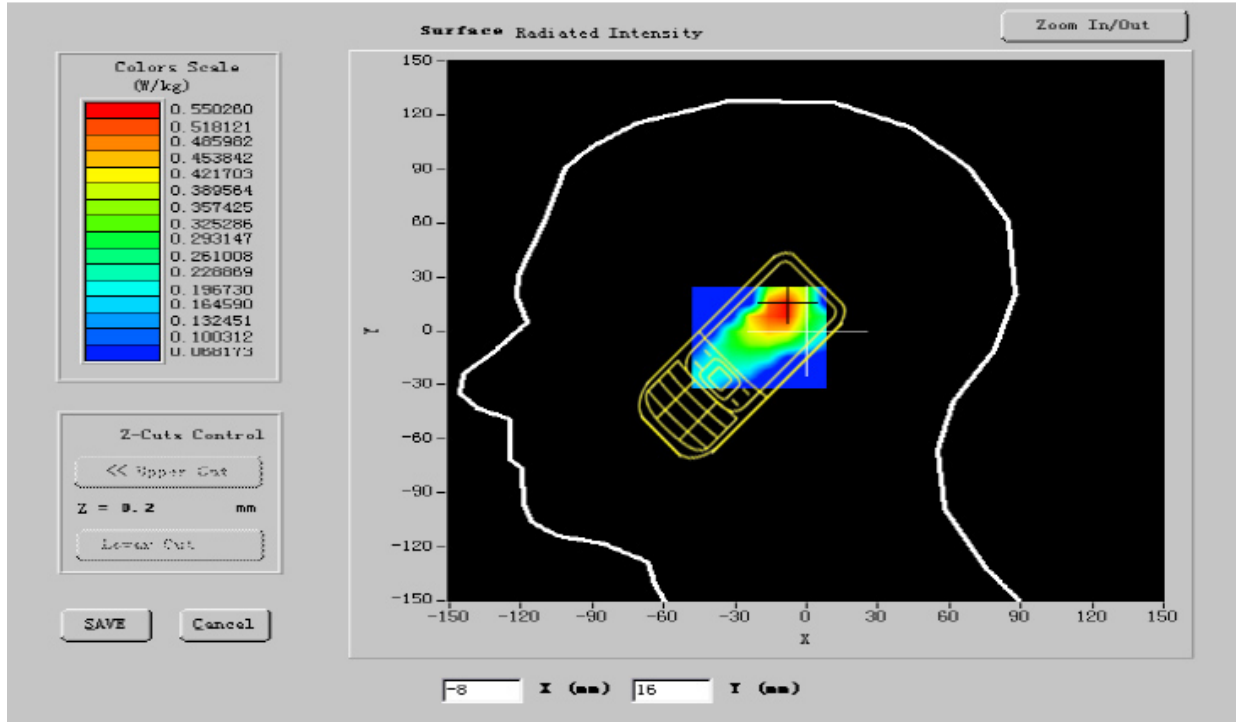
<b>PC</b>	<b>HP (Pentium(R) V3.06GHz, SN:375052-AA1)</b>	<b>Calibration Due: N/A</b>
<b>Wireless Communication Test Set</b>	<b>R&amp;S (CMU200, SN:B23-03291)</b>	<b>Calibration Due: 05/25/2011</b>
<b>Network Analyzer</b>	<b>Agilent(E5071B, MY42301382)</b>	<b>Calibration Due: 03/24/2011</b>
<b>Voltmeter</b>	<b>Keithley (2000, SN:1015843)</b>	<b>Calibration Due: 05/25/2011</b>
<b>Signal Generator</b>	<b>Agilent (E8257C, SN:MY43321570)</b>	<b>Calibration Due: 03/24/2011</b>
<b>Amplifier</b>	<b>Mini-Circuits (ZHL-42, SN:110405)</b>	<b>Calibration Due: 07/29/2011</b>
<b>Power Meter</b>	<b>Agilent (E4416A, SN:QB41292714)</b>	<b>Calibration Due: 03/24/2011</b>
<b>Probe</b>	<b>Antennessa (SN:SN_1109_EP_100)</b>	<b>Calibration Due: 05/04/2011</b>
<b>DIPOLE 1900</b>	<b>Antennessa (DIPG35,SN 48/05)</b>	<b>Calibration Due: 02/09/2012</b>
<b>Phantom</b>	<b>Antennessa (SN:SN41_05_SAM29)</b>	<b>Calibration Due: N/A</b>
<b>Liquid</b>	<b>Antennessa</b>	<b>Calibration Due: N/A</b>
<b>Measurement SW</b>	<b>OPEN SAR V2.1</b>	<b>Calibration Due: N/A</b>

**C. SAR Measurement Results**

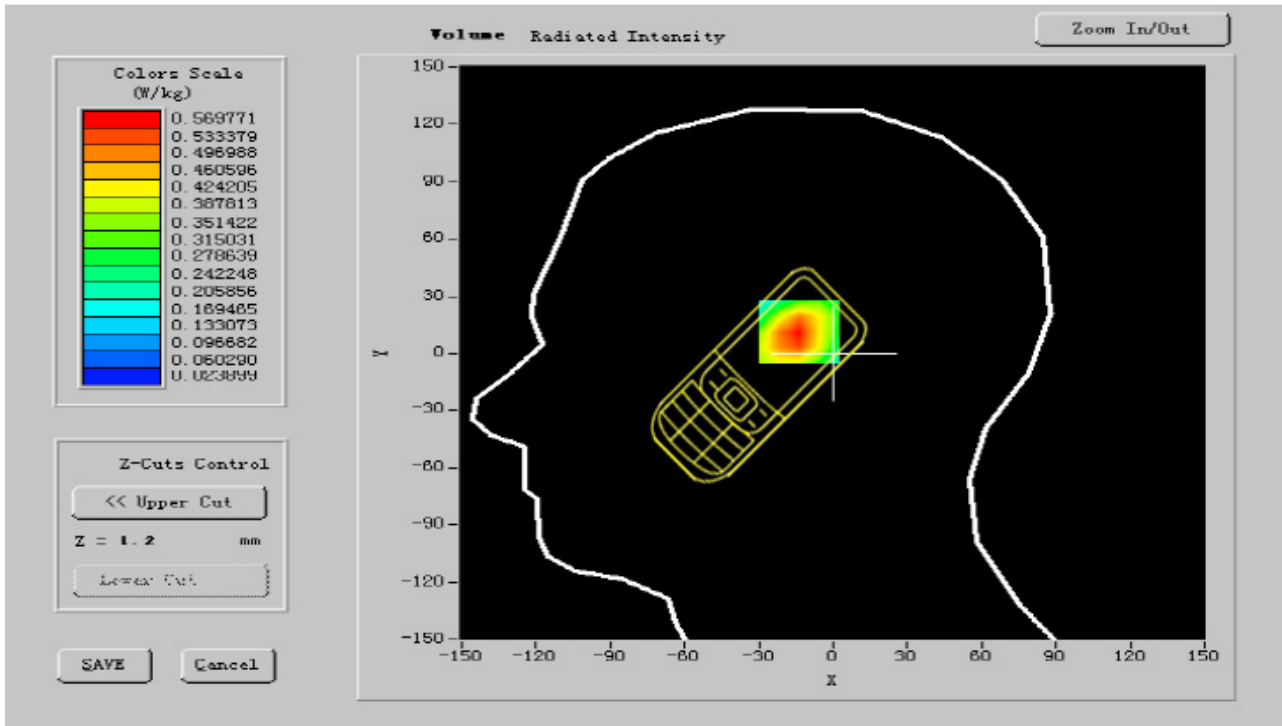
<b>Frequency (MHz)</b>	<b>1880.000000</b>
<b>Relative permittivity (real part)</b>	<b>40.198001</b>
<b>Relative permittivity (imaginary part)</b>	<b>13.813800</b>
<b>Conductivity (S/m)</b>	<b>1.422775</b>
<b>Variation (%)</b>	<b>-0.210000</b>
<b>Ambient Temperature:</b>	<b>21 °C</b>
<b>Liquid Temperature:</b>	<b>20.2 °C</b>
<b>ConvF:</b>	<b>41.05, 42.35, 55.45</b>
<b>Crest factor:</b>	<b>8:1</b>



### SURFACE SAR



### VOLUME SAR





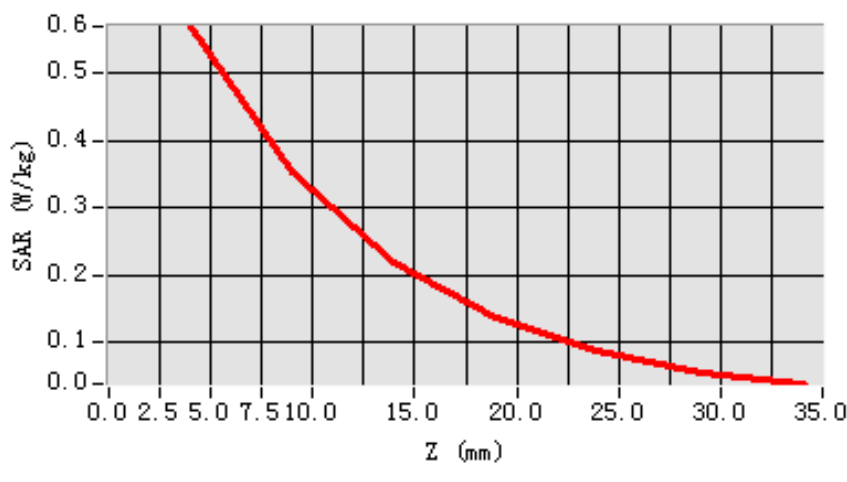
**Maximum location: X=-13.00, Y=-3.00**

SAR 10g (W/Kg)	0.365669
SAR 1g (W/Kg)	0.472354

**Z Axis Scan**

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

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





**MEASUREMENT 3**

Date of measurement: 02/22/2011

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.**

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

**B. Instrumentations.**

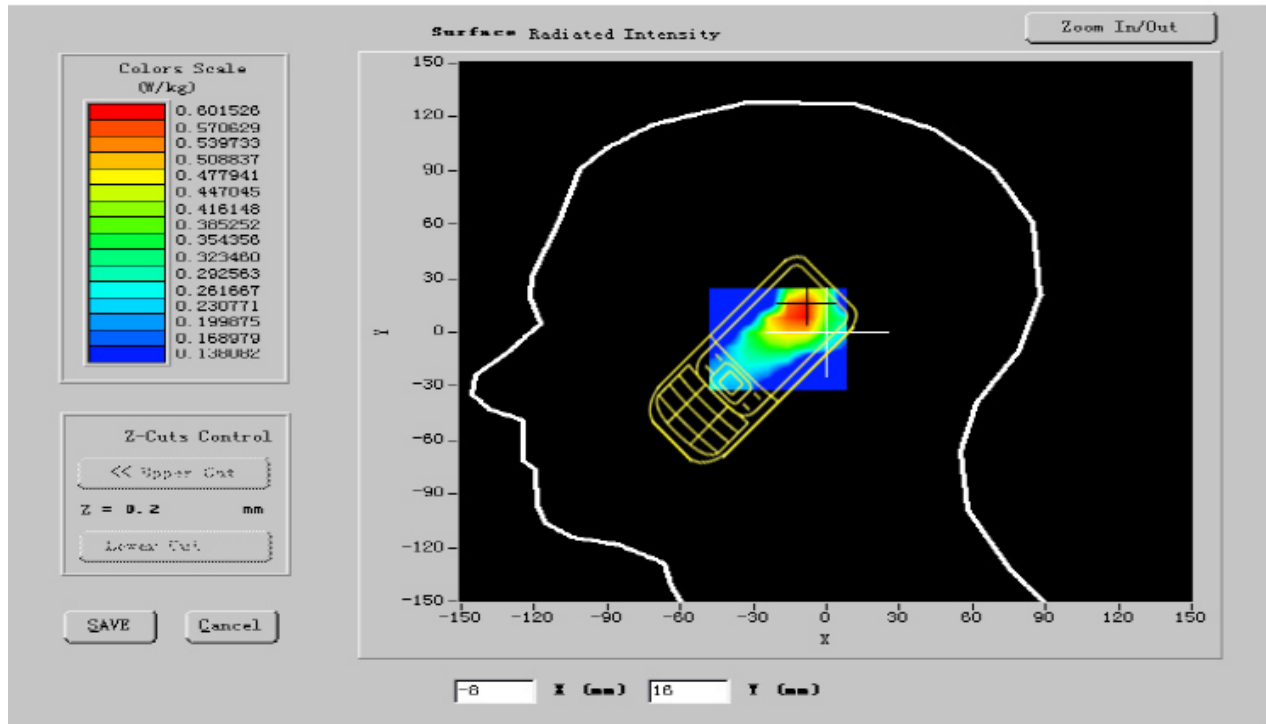
PC	HP (Pentium(R) V3.06GHz, SN:375052-AA1)	Calibration Due: N/A
Wireless Communication Test Set	R&S (CMU200, SN:B23-03291)	Calibration Due: 05/25/2011
Network Analyzer	Agilent(E5071B, MY42301382)	Calibration Due: 03/24/2011
Voltmeter	Keithley (2000, SN:1015843)	Calibration Due: 05/25/2011
Signal Generator	Agilent (E8257C, SN:MY43321570)	Calibration Due: 03/24/2011
Amplifier	Mini-Circuits (ZHL-42, SN:110405)	Calibration Due: 07/29/2011
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibration Due: 03/24/2011
Probe	Antennessa (SN:SN_1109_EP_100)	Calibration Due: 05/04/2011
DIPOLE 1900	Antennessa (DIPG35,SN 48/05)	Calibration Due: 02/09/2012
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibration Due: N/A
Liquid	Antennessa	Calibration Due: N/A
Measurement SW	OPEN SAR V2.1	Calibration Due: N/A

**C. SAR Measurement Results**

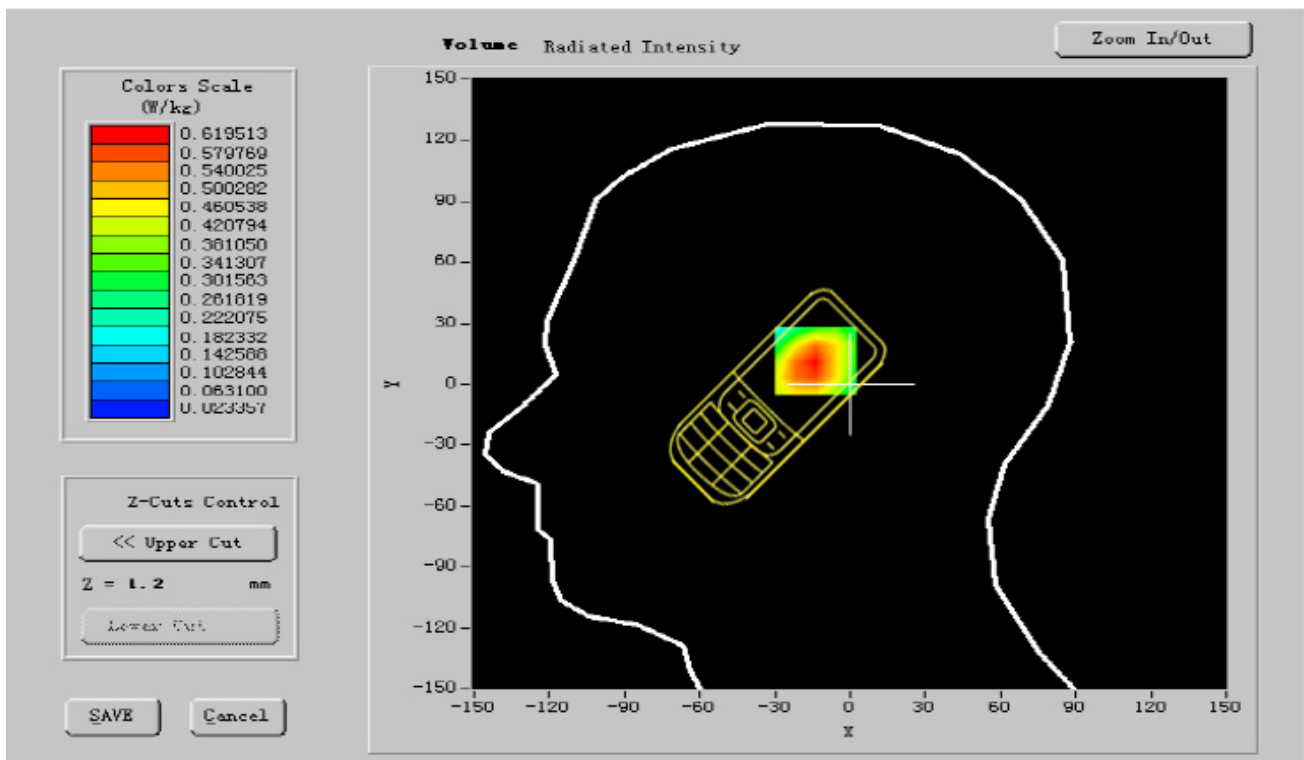
Frequency (MHz)	1909.800000
Relative permittivity (real part)	40.205999
Relative permittivity (imaginary part)	13.669900
Conductivity (S/m)	1.420413
Variation (%)	-0.030000
Ambient Temperature:	21 °C
Liquid Temperature:	20.2 °C
ConvF:	41.05, 42.35, 55.45
Crest factor:	8:1



### SURFACE SAR



### VOLUME SAR







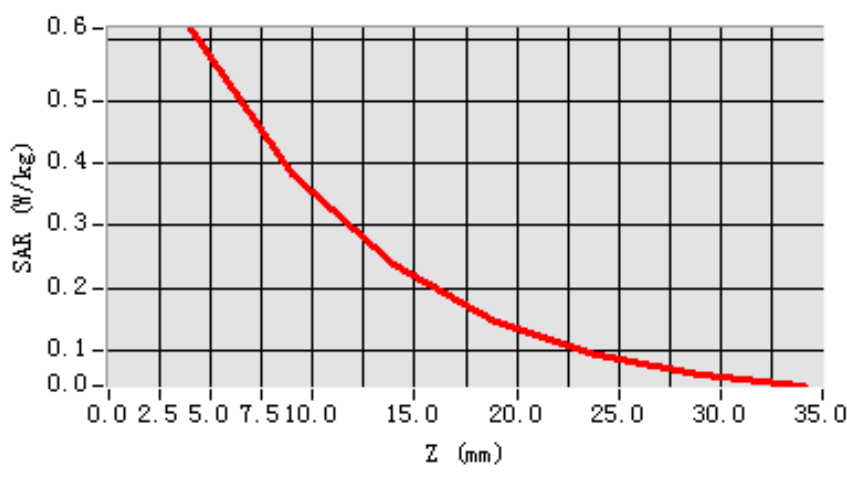
**Maximum location: X=-13.00, Y=-3.00**

SAR 10g (W/Kg)	0.497197
SAR 1g (W/Kg)	0.613101

**Z Axis Scan**

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

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





**MEASUREMENT 4**

**Date of measurement: 02/22/2011**

**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>	GSM1900
<b>Channels</b>	Low
<b>Signal</b>	GSM

**B. Instrumentations.**

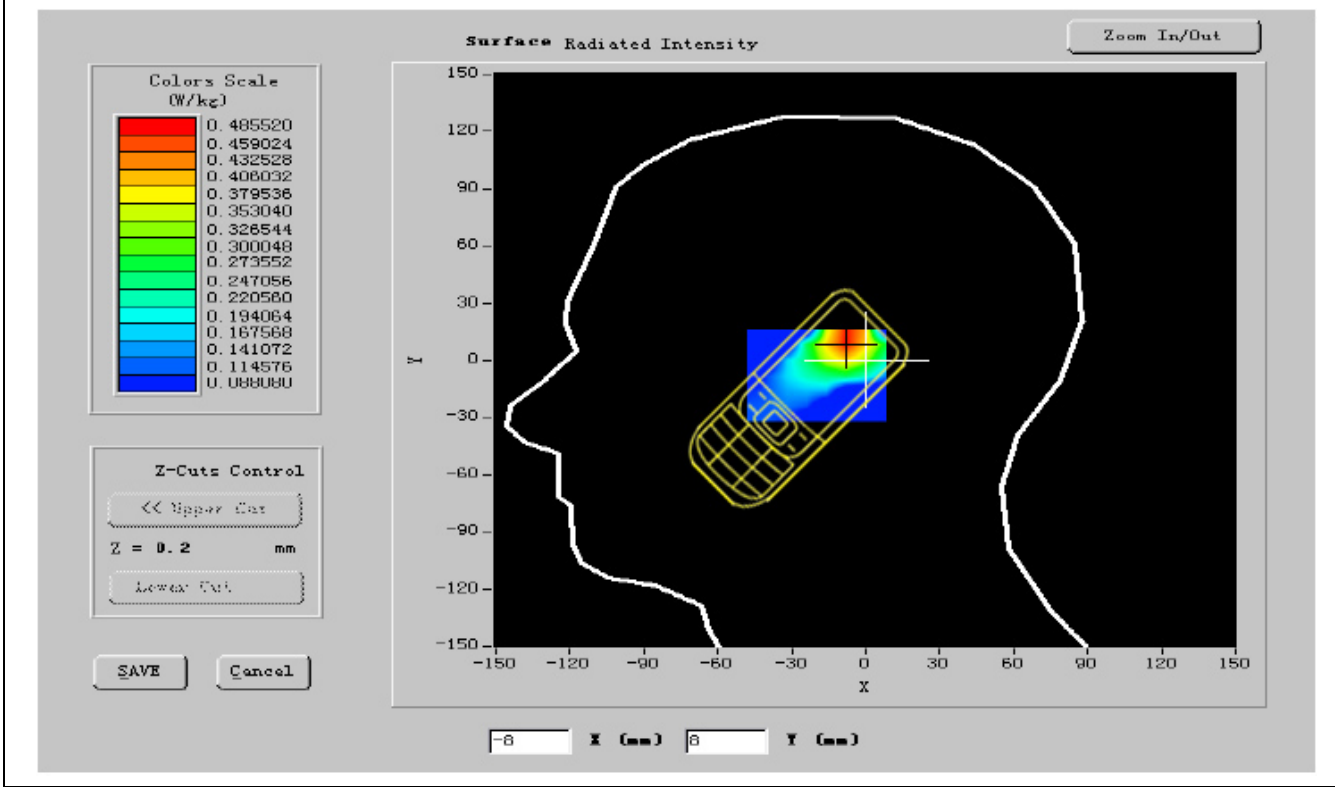
<b>PC</b>	<b>HP (Pentium(R) V3.06GHz, SN:375052-AA1)</b>	<b>Calibration Due: N/A</b>
<b>Wireless Communication Test Set</b>	<b>R&amp;S (CMU200, SN:B23-03291)</b>	<b>Calibration Due: 05/25/2011</b>
<b>Network Analyzer</b>	<b>Agilent(E5071B, MY42301382)</b>	<b>Calibration Due: 03/24/2011</b>
<b>Voltmeter</b>	<b>Keithley (2000, SN:1015843)</b>	<b>Calibration Due: 05/25/2011</b>
<b>Signal Generator</b>	<b>Agilent (E8257C, SN:MY43321570)</b>	<b>Calibration Due: 03/24/2011</b>
<b>Amplifier</b>	<b>Mini-Circuits (ZHL-42, SN:110405)</b>	<b>Calibration Due: 07/29/2011</b>
<b>Power Meter</b>	<b>Agilent (E4416A, SN:QB41292714)</b>	<b>Calibration Due: 03/24/2011</b>
<b>Probe</b>	<b>Antennessa (SN:SN_1109_EP_100)</b>	<b>Calibration Due: 05/04/2011</b>
<b>DIPOLE 1900</b>	<b>Antennessa (DIPG35,SN 48/05)</b>	<b>Calibration Due: 02/09/2012</b>
<b>Phantom</b>	<b>Antennessa (SN:SN41_05_SAM29)</b>	<b>Calibration Due: N/A</b>
<b>Liquid</b>	<b>Antennessa</b>	<b>Calibration Due: N/A</b>
<b>Measurement SW</b>	<b>OPEN SAR V2.1</b>	<b>Calibration Due: N/A</b>

**C. SAR Measurement Results**

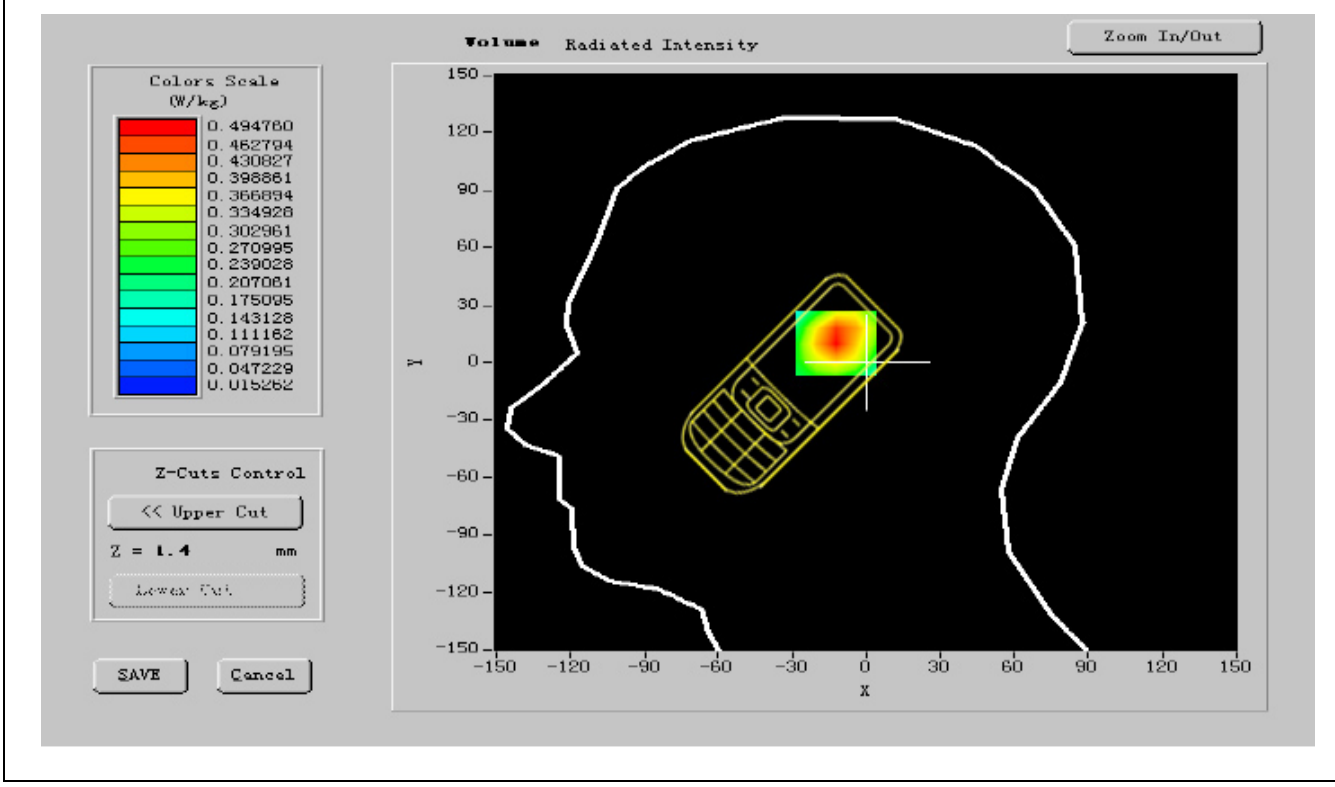
<b>Frequency (MHz)</b>	<b>1850.200000</b>
<b>Relative permittivity (real part)</b>	<b>40.213000</b>
<b>Relative permittivity (imaginary part)</b>	<b>13.584900</b>
<b>Conductivity (S/m)</b>	<b>1.426657</b>
<b>Variation (%)</b>	<b>-1.400000</b>
<b>Ambient Temperature:</b>	<b>21 °C</b>
<b>Liquid Temperature:</b>	<b>20.2 °C</b>
<b>ConvF:</b>	<b>41.05, 42.35, 55.45</b>
<b>Crest factor:</b>	<b>8:1</b>



### SURFACE SAR



### VOLUME SAR





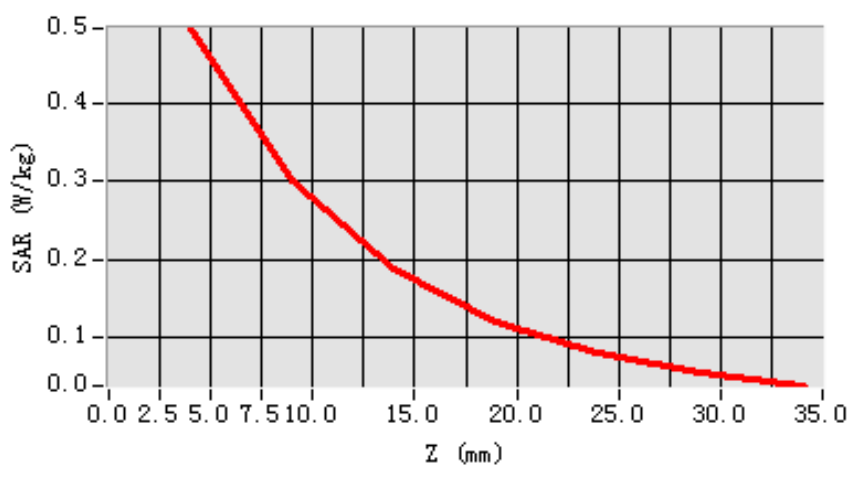
**Maximum location: X=-13.00, Y=-3.00**

SAR 10g (W/Kg)	0.329233
SAR 1g (W/Kg)	0.387145

**Z Axis Scan**

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

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





**MEASUREMENT 5**

**Date of measurement: 02/22/2011**

**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>	GSM1900
<b>Channels</b>	Middle
<b>Signal</b>	GSM

**B. Instrumentations.**

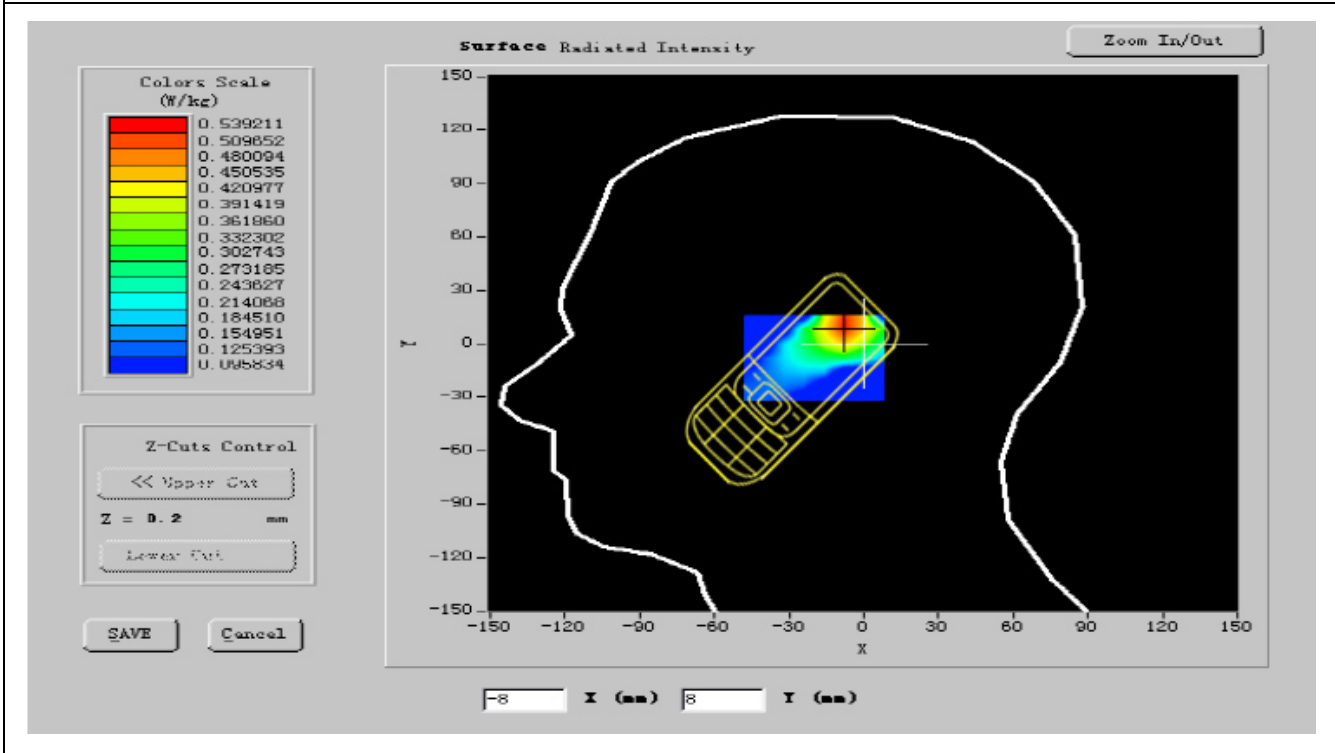
<b>PC</b>	<b>HP (Pentium(R) V3.06GHz, SN:375052-AA1)</b>	<b>Calibration Due: N/A</b>
<b>Wireless Communication Test Set</b>	<b>R&amp;S (CMU200, SN:B23-03291)</b>	<b>Calibration Due: 05/25/2011</b>
<b>Network Analyzer</b>	<b>Agilent(E5071B, MY42301382)</b>	<b>Calibration Due: 03/24/2011</b>
<b>Voltmeter</b>	<b>Keithley (2000, SN:1015843)</b>	<b>Calibration Due: 05/25/2011</b>
<b>Signal Generator</b>	<b>Agilent (E8257C, SN:MY43321570)</b>	<b>Calibration Due: 03/24/2011</b>
<b>Amplifier</b>	<b>Mini-Circuits (ZHL-42, SN:110405)</b>	<b>Calibration Due: 07/29/2011</b>
<b>Power Meter</b>	<b>Agilent (E4416A, SN:QB41292714)</b>	<b>Calibration Due: 03/24/2011</b>
<b>Probe</b>	<b>Antennessa (SN:SN_1109_EP_100)</b>	<b>Calibration Due: 05/04/2011</b>
<b>DIPOLE 1900</b>	<b>Antennessa (DIPG35,SN 48/05)</b>	<b>Calibration Due: 02/09/2012</b>
<b>Phantom</b>	<b>Antennessa (SN:SN41_05_SAM29)</b>	<b>Calibration Due: N/A</b>
<b>Liquid</b>	<b>Antennessa</b>	<b>Calibration Due: N/A</b>
<b>Measurement SW</b>	<b>OPEN SAR V2.1</b>	<b>Calibration Due: N/A</b>

**C. SAR Measurement Results**

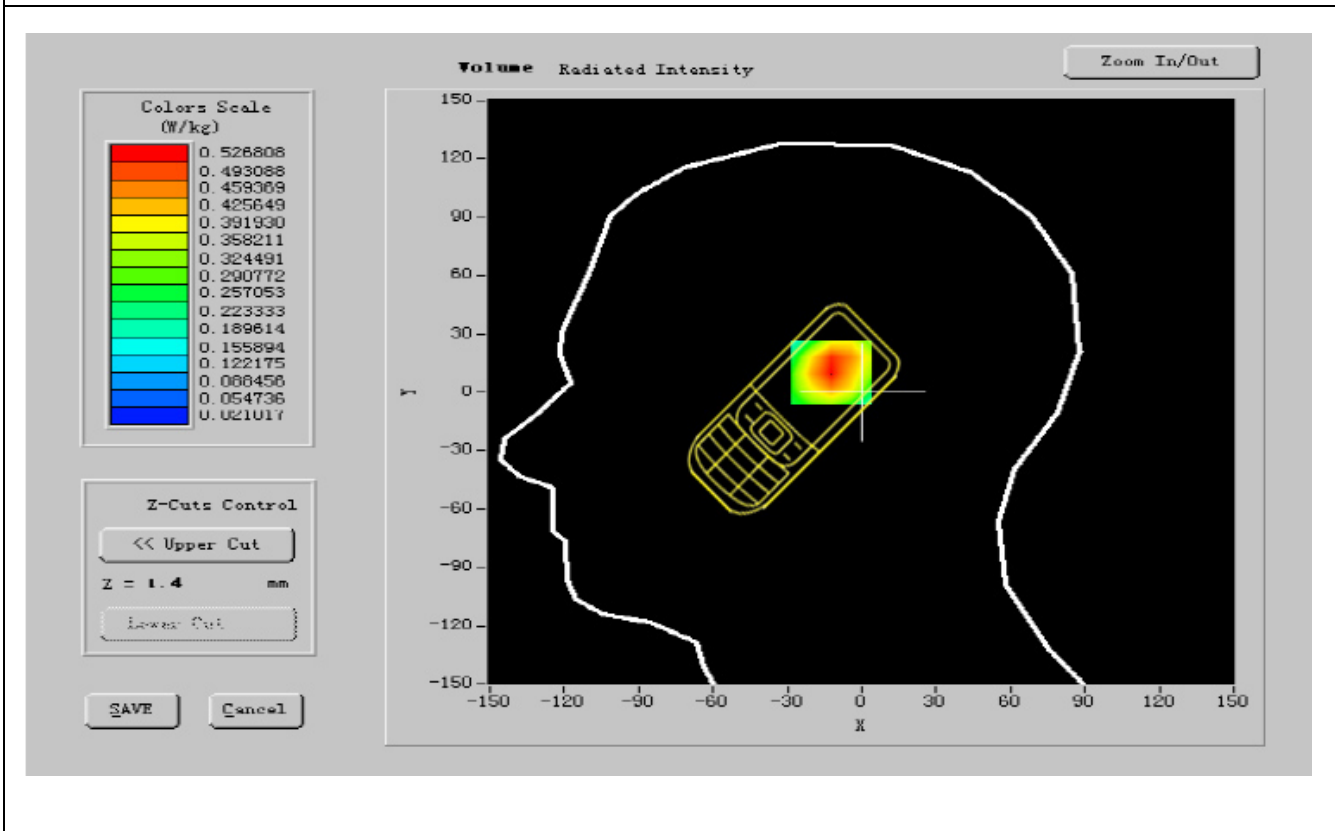
<b>Frequency (MHz)</b>	<b>1880.000000</b>
<b>Relative permittivity (real part)</b>	<b>40.193001</b>
<b>Relative permittivity (imaginary part)</b>	<b>13.813800</b>
<b>Conductivity (S/m)</b>	<b>1.422173</b>
<b>Variation (%)</b>	<b>-0.420000</b>
<b>Ambient Temperature:</b>	<b>21 °C</b>
<b>Liquid Temperature:</b>	<b>20.2 °C</b>
<b>ConvF:</b>	<b>41.05, 42.35, 55.45</b>
<b>Crest factor:</b>	<b>8:1</b>



### SURFACE SAR



### VOLUME SAR





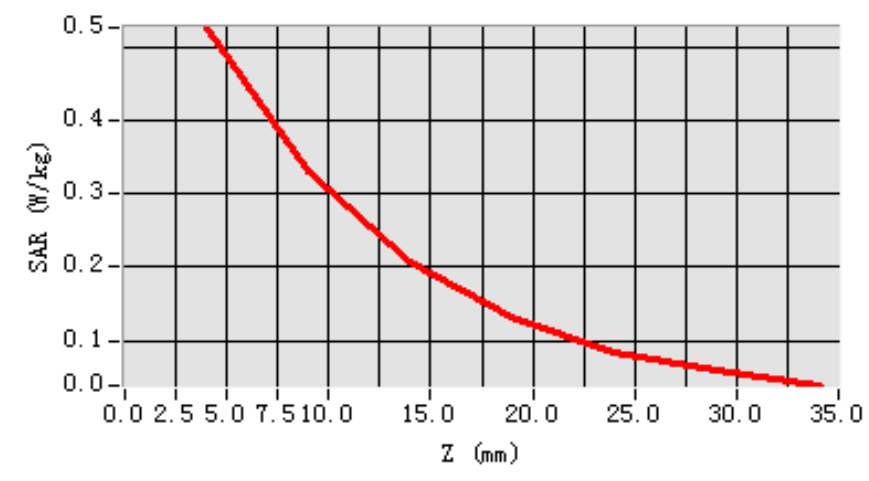
**Maximum location: X=-13.00, Y=-3.00**

SAR 10g (W/Kg)	0.324185
SAR 1g (W/Kg)	0.384575

**Z Axis Scan**

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

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





**MEASUREMENT 6**

**Date of measurement: 02/22/2011**

**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>	GSM1900
<b>Channels</b>	High
<b>Signal</b>	GSM

**B. Instrumentations.**

<b>PC</b>	<b>HP (Pentium(R) V3.06GHz, SN:375052-AA1)</b>	<b>Calibration Due: N/A</b>
<b>Wireless Communication Test Set</b>	<b>R&amp;S (CMU200, SN:B23-03291)</b>	<b>Calibration Due: 05/25/2011</b>
<b>Network Analyzer</b>	<b>Agilent(E5071B, MY42301382)</b>	<b>Calibration Due: 03/24/2011</b>
<b>Voltmeter</b>	<b>Keithley (2000, SN:1015843)</b>	<b>Calibration Due: 05/25/2011</b>
<b>Signal Generator</b>	<b>Agilent (E8257C, SN:MY43321570)</b>	<b>Calibration Due: 03/24/2011</b>
<b>Amplifier</b>	<b>Mini-Circuits (ZHL-42, SN:110405)</b>	<b>Calibration Due: 07/29/2011</b>
<b>Power Meter</b>	<b>Agilent (E4416A, SN:QB41292714)</b>	<b>Calibration Due: 03/24/2011</b>
<b>Probe</b>	<b>Antennessa (SN:SN_1109_EP_100)</b>	<b>Calibration Due: 05/04/2011</b>
<b>DIPOLE 1900</b>	<b>Antennessa (DIPG35,SN 48/05)</b>	<b>Calibration Due: 02/09/2012</b>
<b>Phantom</b>	<b>Antennessa (SN:SN41_05_SAM29)</b>	<b>Calibration Due: N/A</b>
<b>Liquid</b>	<b>Antennessa</b>	<b>Calibration Due: N/A</b>
<b>Measurement SW</b>	<b>OPEN SAR V2.1</b>	<b>Calibration Due: N/A</b>

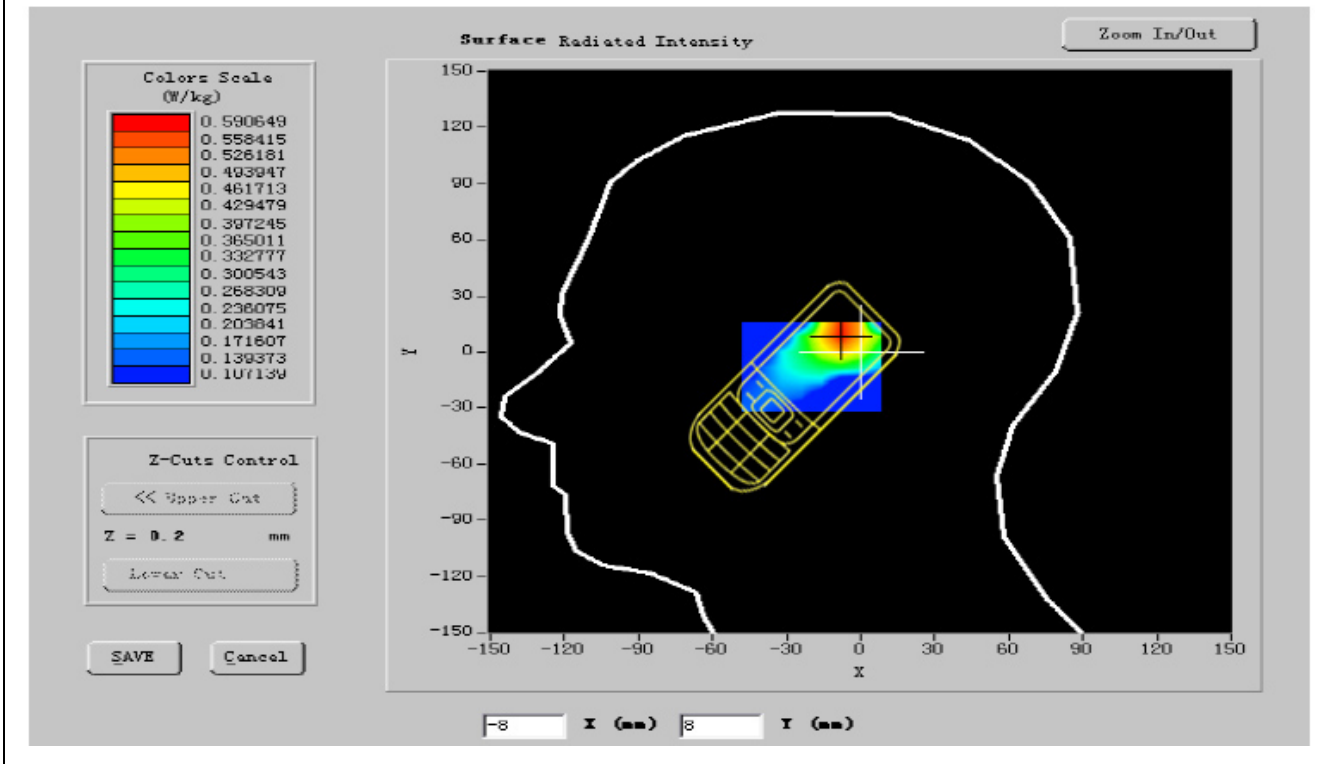
**C. SAR Measurement Results**

<b>Frequency (MHz)</b>	<b>1909.800000</b>
<b>Relative permittivity (real part)</b>	<b>40.205999</b>
<b>Relative permittivity (imaginary part)</b>	<b>13.669900</b>
<b>Conductivity (S/m)</b>	<b>1.400224</b>
<b>Variation (%)</b>	<b>-1.500000</b>
<b>Ambient Temperature:</b>	<b>21 °C</b>
<b>Liquid Temperature:</b>	<b>20.2 °C</b>
<b>ConvF:</b>	<b>41.05, 42.35, 55.45</b>
<b>Crest factor:</b>	<b>8:1</b>

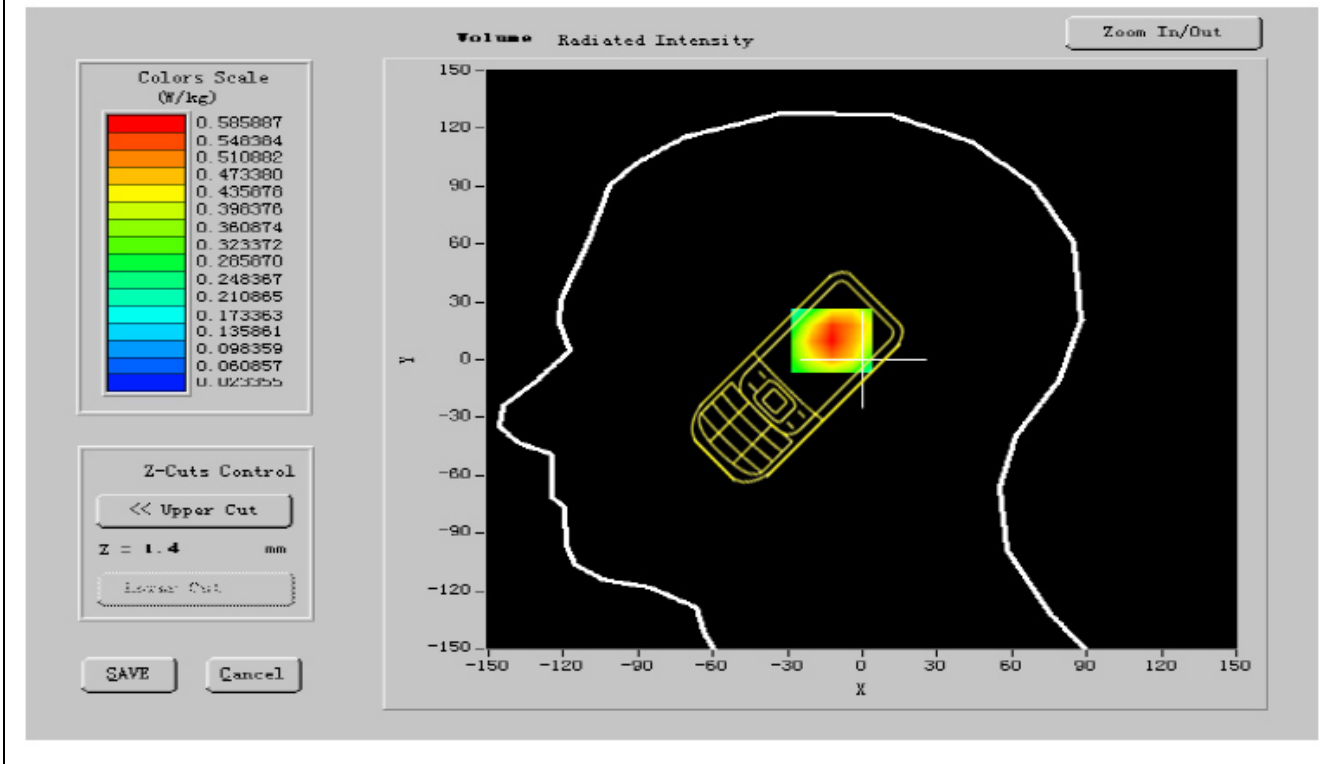




### SURFACE SAR



### VOLUME SAR





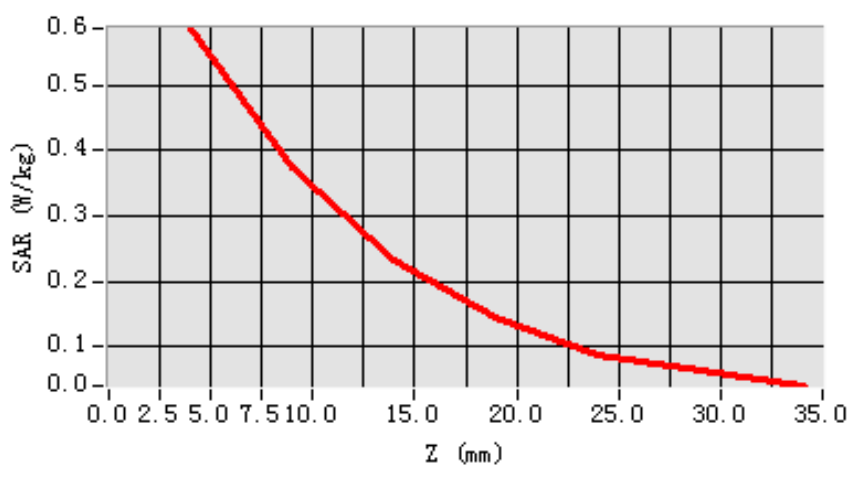
**Maximum location: X=-13.00, Y=-3.00**

SAR 10g (W/Kg)	0.197397
SAR 1g (W/Kg)	0.352345

**Z Axis Scan**

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

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





**MEASUREMENT 7**

**Date of measurement: 02/22/2011**

**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>	GSM1900
<b>Channels</b>	Low
<b>Signal</b>	GSM

**B. Instrumentations.**

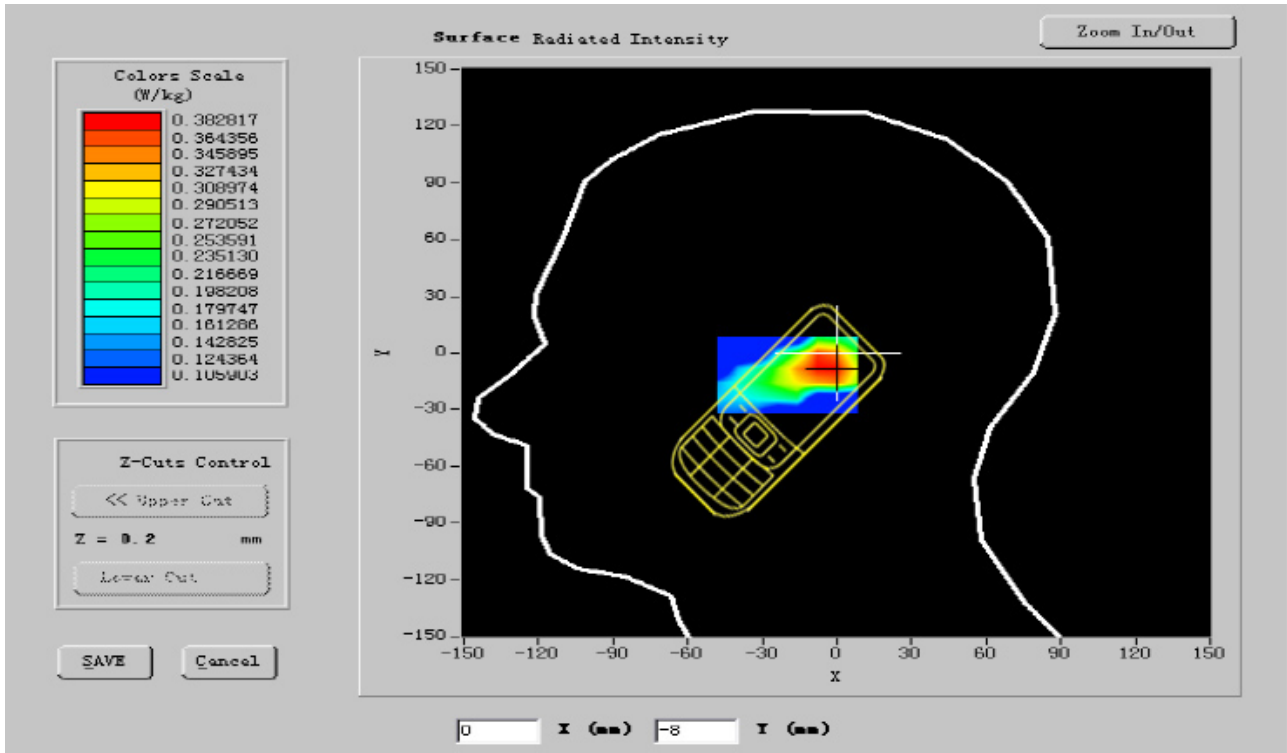
<b>PC</b>	<b>HP (Pentium(R) V3.06GHz, SN:375052-AA1)</b>	<b>Calibration Due: N/A</b>
<b>Wireless Communication Test Set</b>	<b>R&amp;S (CMU200, SN:B23-03291)</b>	<b>Calibration Due: 05/25/2011</b>
<b>Network Analyzer</b>	<b>Agilent(E5071B, MY42301382)</b>	<b>Calibration Due: 03/24/2011</b>
<b>Voltmeter</b>	<b>Keithley (2000, SN:1015843)</b>	<b>Calibration Due: 05/25/2011</b>
<b>Signal Generator</b>	<b>Agilent (E8257C, SN:MY43321570)</b>	<b>Calibration Due: 03/24/2011</b>
<b>Amplifier</b>	<b>Mini-Circuits (ZHL-42, SN:110405)</b>	<b>Calibration Due: 07/29/2011</b>
<b>Power Meter</b>	<b>Agilent (E4416A, SN:QB41292714)</b>	<b>Calibration Due: 03/24/2011</b>
<b>Probe</b>	<b>Antennessa (SN:SN_1109_EP_100)</b>	<b>Calibration Due: 05/04/2011</b>
<b>DIPOLE 1900</b>	<b>Antennessa (DIPG35,SN 48/05)</b>	<b>Calibration Due: 02/09/2012</b>
<b>Phantom</b>	<b>Antennessa (SN:SN41_05_SAM29)</b>	<b>Calibration Due: N/A</b>
<b>Liquid</b>	<b>Antennessa</b>	<b>Calibration Due: N/A</b>
<b>Measurement SW</b>	<b>OPEN SAR V2.1</b>	<b>Calibration Due: N/A</b>

**C. SAR Measurement Results**

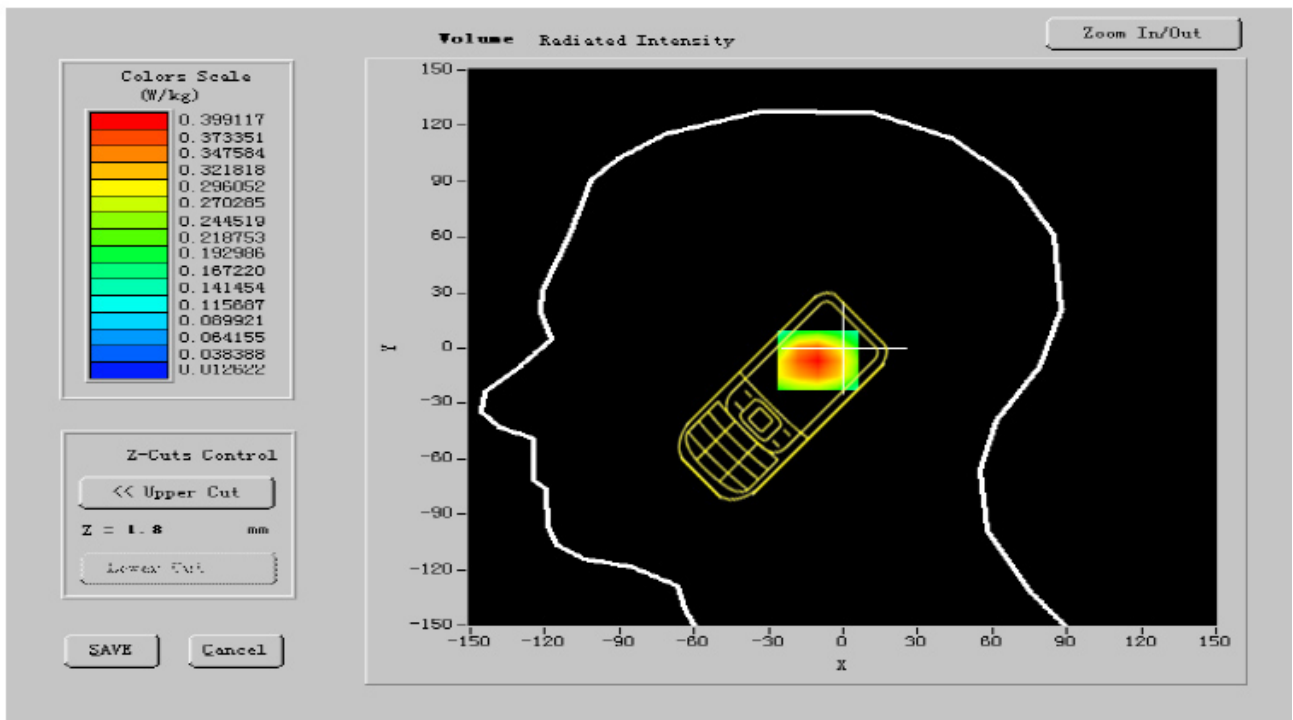
<b>Frequency (MHz)</b>	<b>1850.200000</b>
<b>Relative permittivity (real part)</b>	<b>40.313000</b>
<b>Relative permittivity (imaginary part)</b>	<b>13.584900</b>
<b>Conductivity (S/m)</b>	<b>1.416528</b>
<b>Variation (%)</b>	<b>0.400000</b>
<b>Ambient Temperature:</b>	<b>21 °C</b>
<b>Liquid Temperature:</b>	<b>20.2°C</b>
<b>ConvF:</b>	<b>41.05, 42.35, 55.45</b>
<b>Crest factor:</b>	<b>8:1</b>



### SURFACE SAR



### VOLUME SAR





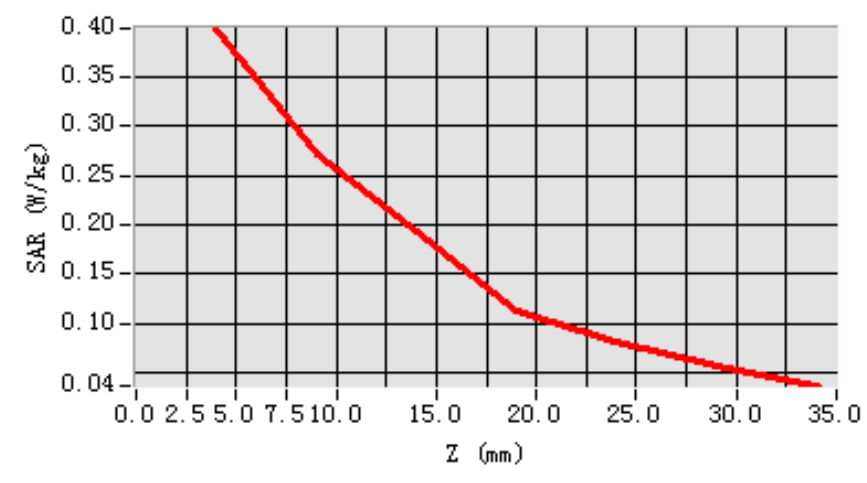
**Maximum location: X=-13.00, Y=-3.00**

SAR 10g (W/Kg)	0.410397
SAR 1g (W/Kg)	0.413201

**Z Axis Scan**

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

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





**MEASUREMENT 8**

**Date of measurement: 02/22/2011**

**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>	GSM1900
<b>Channels</b>	Middle
<b>Signal</b>	GSM

**B. Instrumentations.**

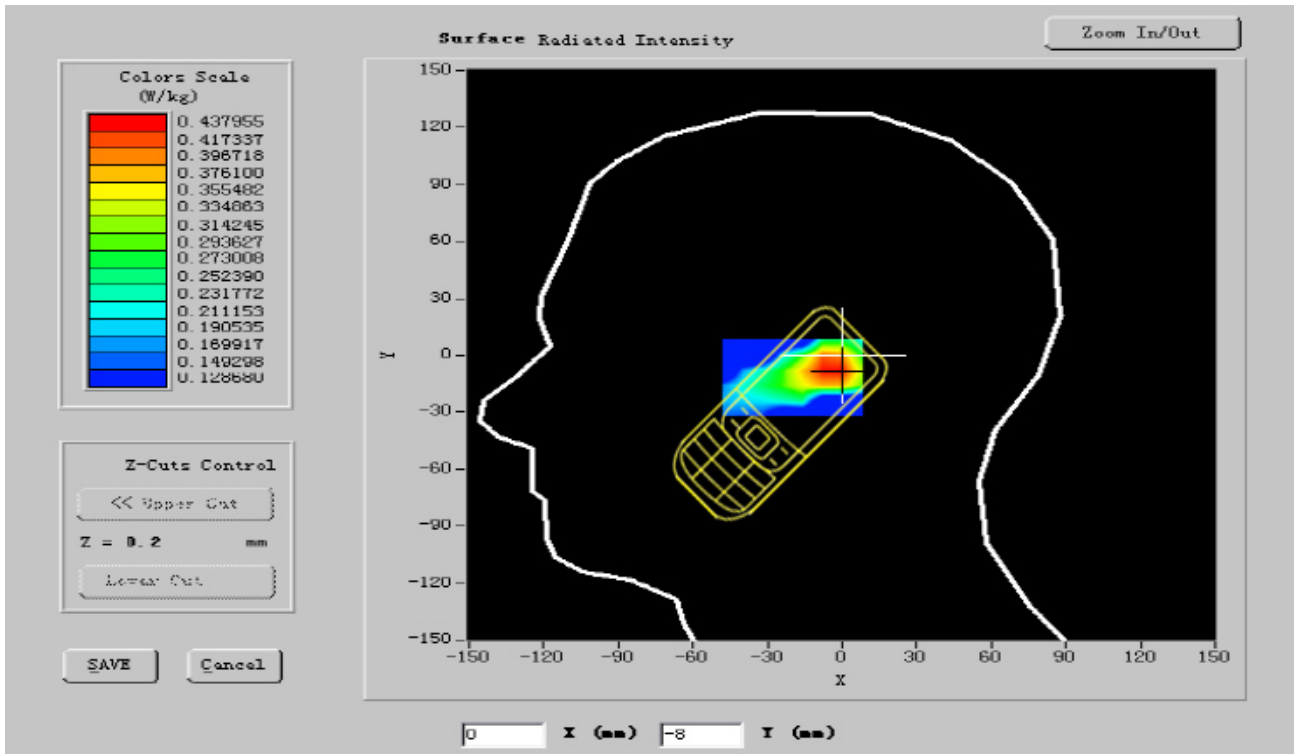
<b>PC</b>	<b>HP (Pentium(R) V3.06GHz, SN:375052-AA1)</b>	<b>Calibration Due: N/A</b>
<b>Wireless Communication Test Set</b>	<b>R&amp;S (CMU200, SN:B23-03291)</b>	<b>Calibration Due: 05/25/2011</b>
<b>Network Analyzer</b>	<b>Agilent(E5071B, MY42301382)</b>	<b>Calibration Due: 03/24/2011</b>
<b>Voltmeter</b>	<b>Keithley (2000, SN:1015843)</b>	<b>Calibration Due: 05/25/2011</b>
<b>Signal Generator</b>	<b>Agilent (E8257C, SN:MY43321570)</b>	<b>Calibration Due: 03/24/2011</b>
<b>Amplifier</b>	<b>Mini-Circuits (ZHL-42, SN:110405)</b>	<b>Calibration Due: 07/29/2011</b>
<b>Power Meter</b>	<b>Agilent (E4416A, SN:QB41292714)</b>	<b>Calibration Due: 03/24/2011</b>
<b>Probe</b>	<b>Antennessa (SN:SN_1109_EP_100)</b>	<b>Calibration Due: 05/04/2011</b>
<b>DIPOLE 1900</b>	<b>Antennessa (DIPG35,SN 48/05)</b>	<b>Calibration Due: 02/09/2012</b>
<b>Phantom</b>	<b>Antennessa (SN:SN41_05_SAM29)</b>	<b>Calibration Due: N/A</b>
<b>Liquid</b>	<b>Antennessa</b>	<b>Calibration Due: N/A</b>
<b>Measurement SW</b>	<b>OPEN SAR V2.1</b>	<b>Calibration Due: N/A</b>

**C. SAR Measurement Results**

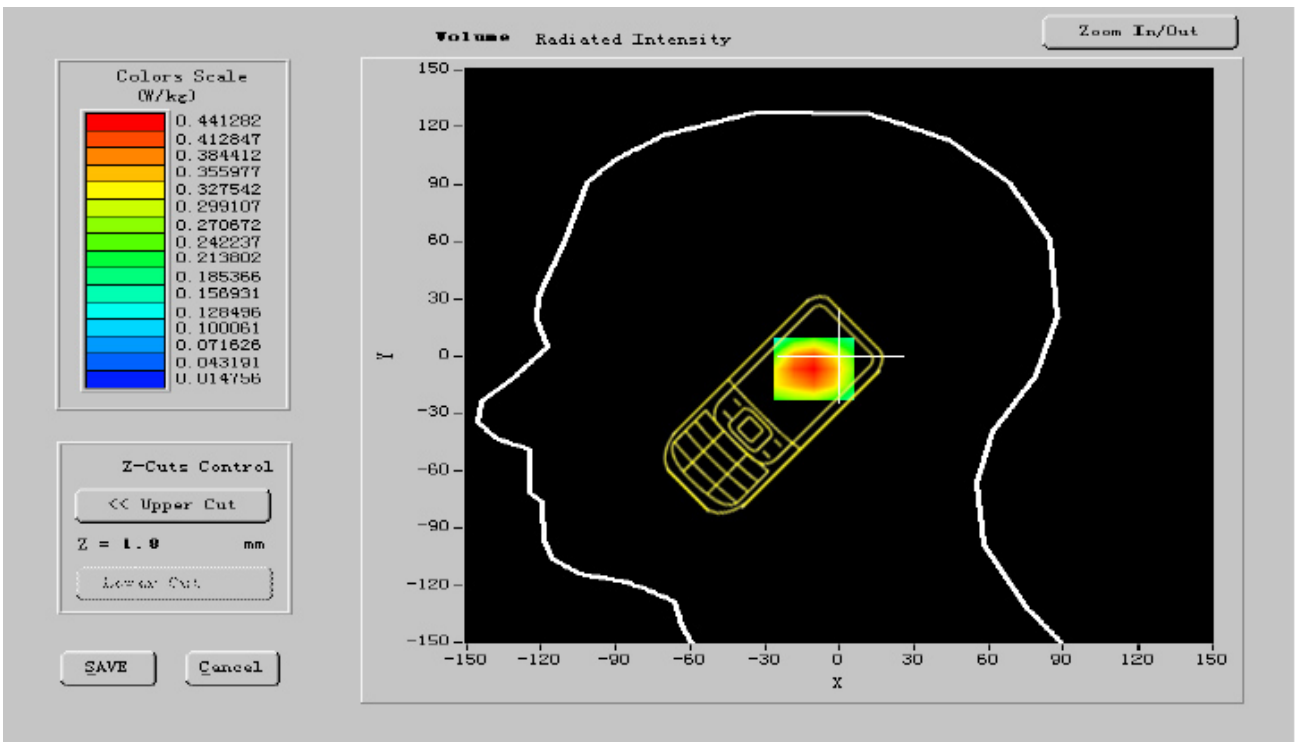
<b>Frequency (MHz)</b>	<b>1880.000000</b>
<b>Relative permittivity (real part)</b>	<b>40.193001</b>
<b>Relative permittivity (imaginary part)</b>	<b>13.813800</b>
<b>Conductivity (S/m)</b>	<b>1.412324</b>
<b>Variation (%)</b>	<b>1.300000</b>
<b>Ambient Temperature:</b>	<b>21 °C</b>
<b>Liquid Temperature:</b>	<b>20.2 °C</b>
<b>ConvF:</b>	<b>41.05, 42.35, 55.45</b>
<b>Crest factor:</b>	<b>8:1</b>



### SURFACE SAR



### VOLUME SAR





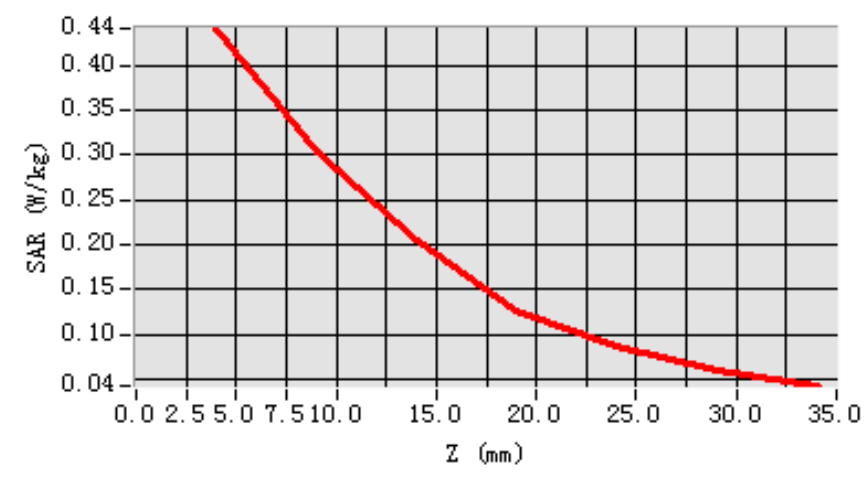
**Maximum location: X=-13.00, Y=-3.00**

SAR 10g (W/Kg)	0.269684
SAR 1g (W/Kg)	0.421829

**Z Axis Scan**

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

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







**MEASUREMENT 9**

**Date of measurement: 02/22/2011**

**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>	GSM1900
<b>Channels</b>	High
<b>Signal</b>	GSM

**B. Instrumentations.**

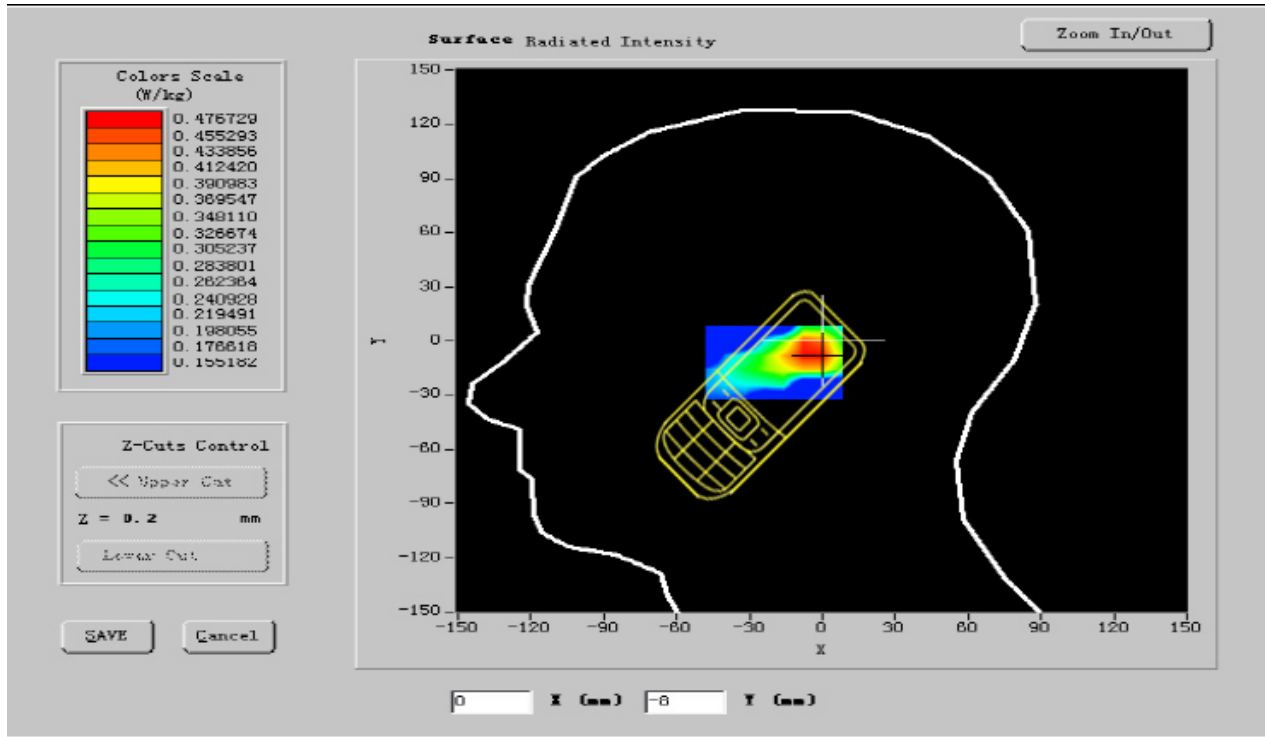
<b>PC</b>	<b>HP (Pentium(R) V3.06GHz, SN:375052-AA1)</b>	<b>Calibration Due: N/A</b>
<b>Wireless Communication Test Set</b>	<b>R&amp;S (CMU200, SN:B23-03291)</b>	<b>Calibration Due: 05/25/2011</b>
<b>Network Analyzer</b>	<b>Agilent(E5071B, MY42301382)</b>	<b>Calibration Due: 03/24/2011</b>
<b>Voltmeter</b>	<b>Keithley (2000, SN:1015843)</b>	<b>Calibration Due: 05/25/2011</b>
<b>Signal Generator</b>	<b>Agilent (E8257C, SN:MY43321570)</b>	<b>Calibration Due: 03/24/2011</b>
<b>Amplifier</b>	<b>Mini-Circuits (ZHL-42, SN:110405)</b>	<b>Calibration Due: 07/29/2011</b>
<b>Power Meter</b>	<b>Agilent (E4416A, SN:QB41292714)</b>	<b>Calibration Due: 03/24/2011</b>
<b>Probe</b>	<b>Antennessa (SN:SN_1109_EP_100)</b>	<b>Calibration Due: 05/04/2011</b>
<b>DIPOLE 1900</b>	<b>Antennessa (DIPG35,SN 48/05)</b>	<b>Calibration Due: 02/09/2012</b>
<b>Phantom</b>	<b>Antennessa (SN:SN41_05_SAM29)</b>	<b>Calibration Due: N/A</b>
<b>Liquid</b>	<b>Antennessa</b>	<b>Calibration Due: N/A</b>
<b>Measurement SW</b>	<b>OPEN SAR V2.1</b>	<b>Calibration Due: N/A</b>

**C. SAR Measurement Results**

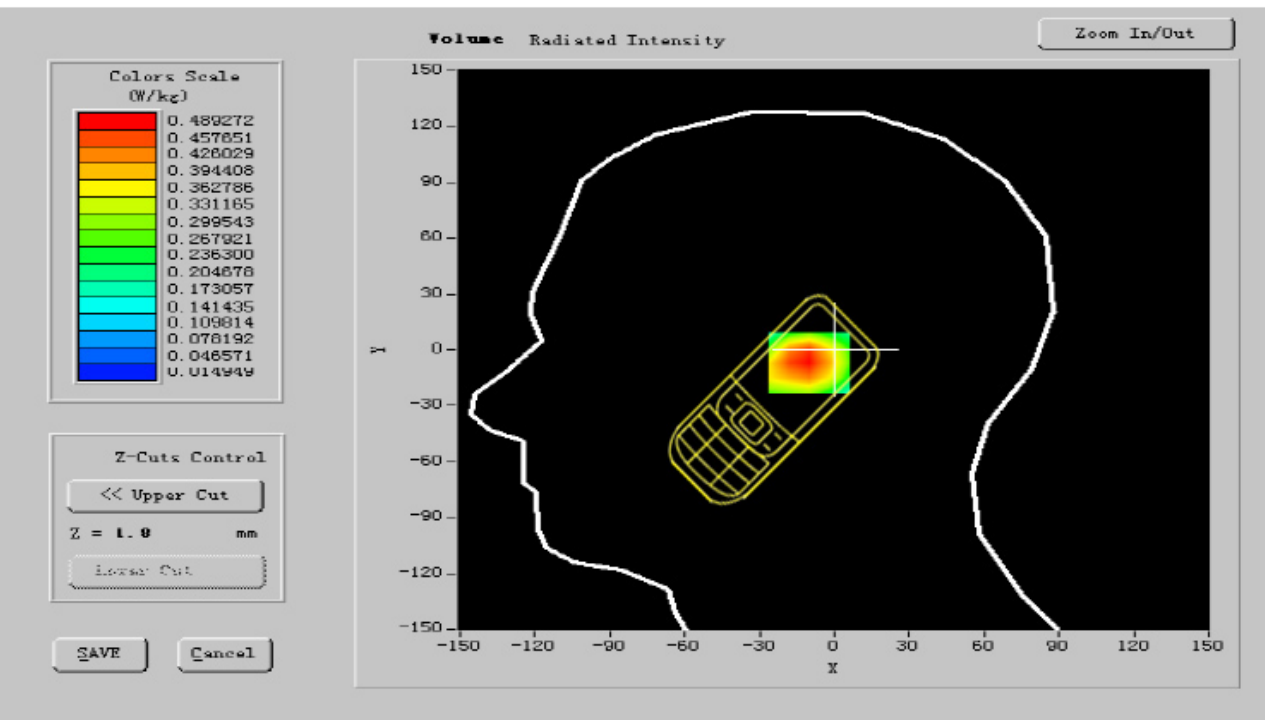
<b>Frequency (MHz)</b>	<b>1909.800000</b>
<b>Relative permittivity (real part)</b>	<b>40.285999</b>
<b>Relative permittivity (imaginary part)</b>	<b>13.669900</b>
<b>Conductivity (S/m)</b>	<b>1.410242</b>
<b>Variation (%)</b>	<b>0.400000</b>
<b>Ambient Temperature:</b>	<b>21 °C</b>
<b>Liquid Temperature:</b>	<b>20.2 °C</b>
<b>ConvF:</b>	<b>41.05, 42.35, 55.45</b>
<b>Crest factor:</b>	<b>8:1</b>



### SURFACE SAR



### VOLUME SAR





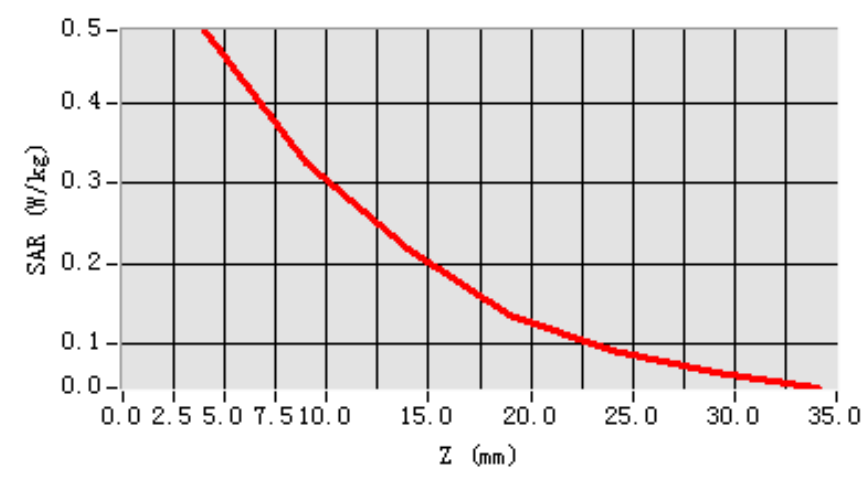
**Maximum location: X=-13.00, Y=-3.00**

SAR 10g (W/Kg)	0.340376
SAR 1g (W/Kg)	0.503274

**Z Axis Scan**

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

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





**MEASUREMENT 10**

**Date of measurement: 02/22/2011**

**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>	GSM1900
<b>Channels</b>	Low
<b>Signal</b>	GSM

**B. Instrumentations.**

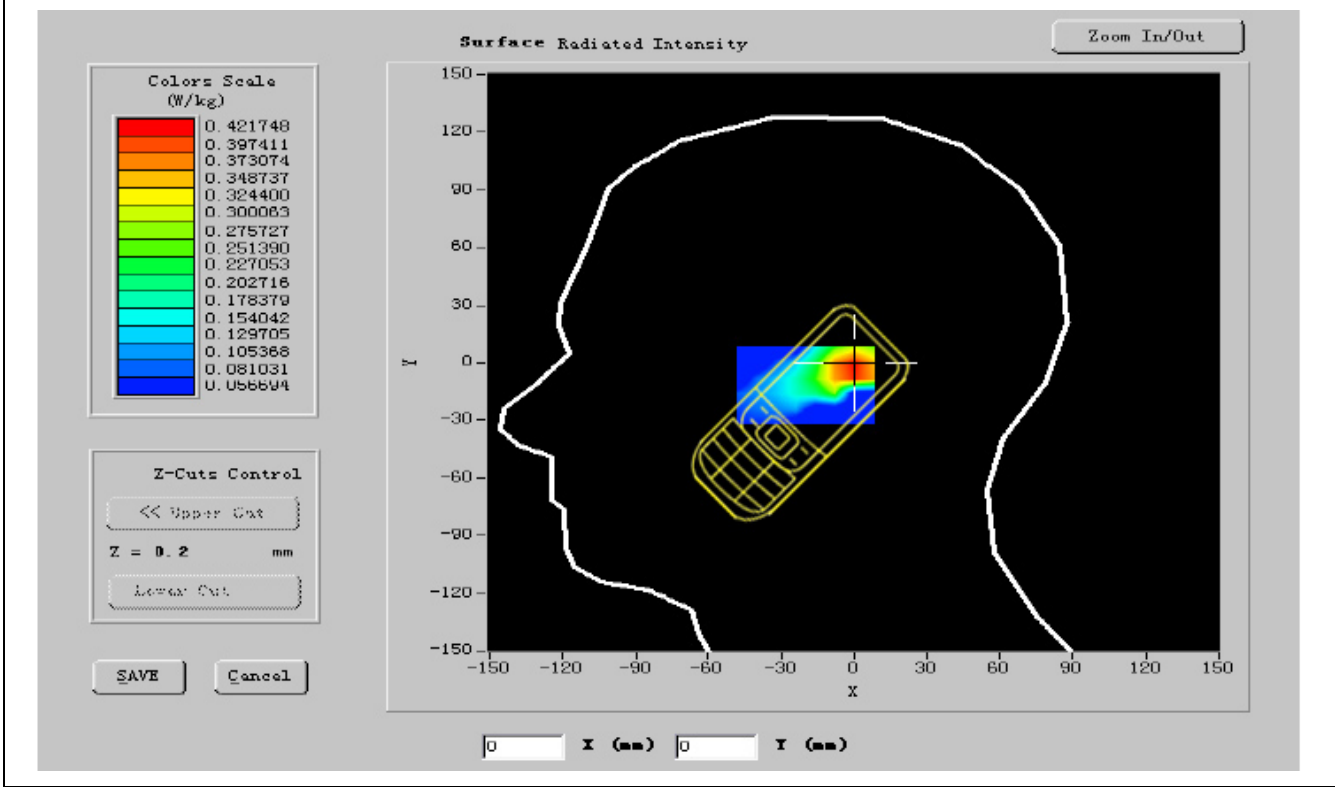
<b>PC</b>	<b>HP (Pentium(R) V3.06GHz, SN:375052-AA1)</b>	<b>Calibration Due: N/A</b>
<b>Wireless Communication Test Set</b>	<b>R&amp;S (CMU200, SN:B23-03291)</b>	<b>Calibration Due: 05/25/2011</b>
<b>Network Analyzer</b>	<b>Agilent(E5071B, MY42301382)</b>	<b>Calibration Due: 03/24/2011</b>
<b>Voltmeter</b>	<b>Keithley (2000, SN:1015843)</b>	<b>Calibration Due: 05/25/2011</b>
<b>Signal Generator</b>	<b>Agilent (E8257C, SN:MY43321570)</b>	<b>Calibration Due: 03/24/2011</b>
<b>Amplifier</b>	<b>Mini-Circuits (ZHL-42, SN:110405)</b>	<b>Calibration Due: 07/29/2011</b>
<b>Power Meter</b>	<b>Agilent (E4416A, SN:QB41292714)</b>	<b>Calibration Due: 03/24/2011</b>
<b>Probe</b>	<b>Antennessa (SN:SN_1109_EP_100)</b>	<b>Calibration Due: 05/04/2011</b>
<b>DIPOLE 1900</b>	<b>Antennessa (DIPG35,SN 48/05)</b>	<b>Calibration Due: 02/09/2012</b>
<b>Phantom</b>	<b>Antennessa (SN:SN41_05_SAM29)</b>	<b>Calibration Due: N/A</b>
<b>Liquid</b>	<b>Antennessa</b>	<b>Calibration Due: N/A</b>
<b>Measurement SW</b>	<b>OPEN SAR V2.1</b>	<b>Calibration Due: N/A</b>

**C. SAR Measurement Results**

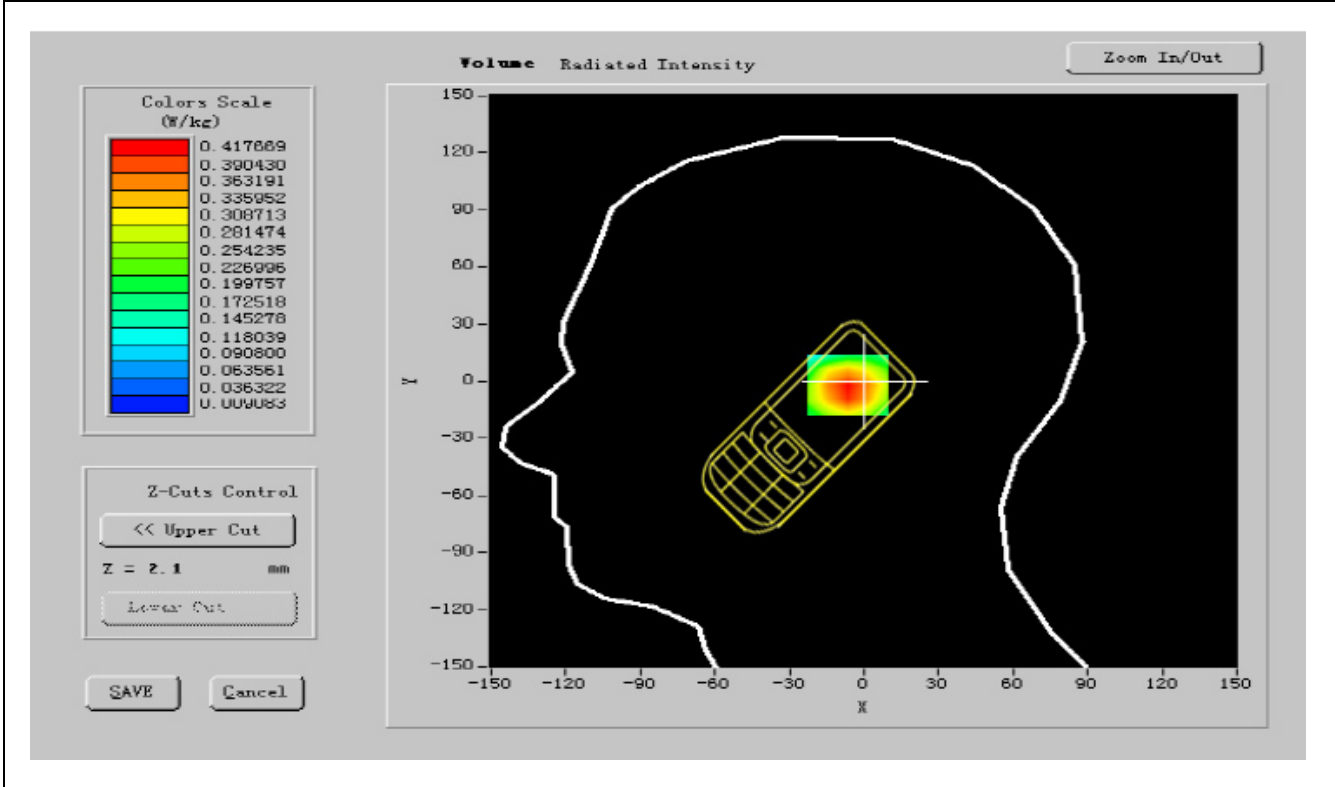
<b>Frequency (MHz)</b>	<b>1850.200000</b>
<b>Relative permittivity (real part)</b>	<b>40.313134</b>
<b>Relative permittivity (imaginary part)</b>	<b>13.584900</b>
<b>Conductivity (S/m)</b>	<b>1.416243</b>
<b>Variation (%)</b>	<b>-0.700000</b>
<b>Ambient Temperature:</b>	<b>21 °C</b>
<b>Liquid Temperature:</b>	<b>20.2 °C</b>
<b>ConvF:</b>	<b>41.05, 42.35, 55.45</b>
<b>Crest factor:</b>	<b>8:1</b>



### SURFACE SAR



### VOLUME SAR





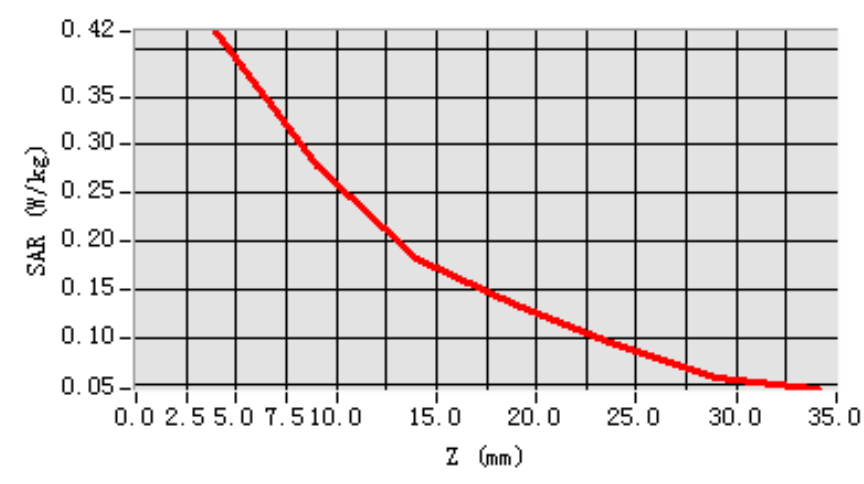
**Maximum location: X=-13.00, Y=-3.00**

SAR 10g (W/Kg)	0.333816
SAR 1g (W/Kg)	0.475624

**Z Axis Scan**

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

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





**MEASUREMENT 11**

**Date of measurement: 02/22/2011**

**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>	GSM1900
<b>Channels</b>	Middle
<b>Signal</b>	GSM

**B. Instrumentations.**

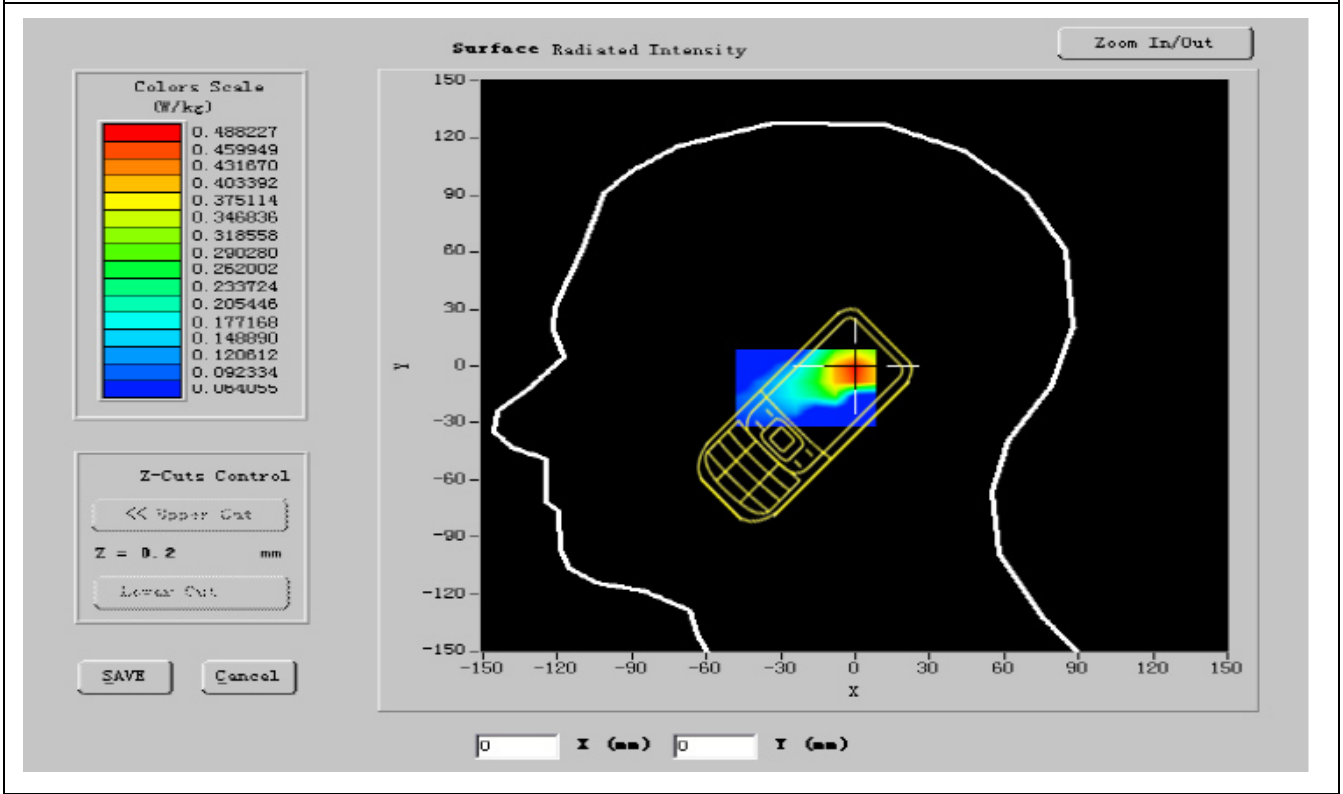
<b>PC</b>	<b>HP (Pentium(R) V3.06GHz, SN:375052-AA1)</b>	<b>Calibration Due: N/A</b>
<b>Wireless Communication Test Set</b>	<b>R&amp;S (CMU200, SN:B23-03291)</b>	<b>Calibration Due: 05/25/2011</b>
<b>Network Analyzer</b>	<b>Agilent(E5071B, MY42301382)</b>	<b>Calibration Due: 03/24/2011</b>
<b>Voltmeter</b>	<b>Keithley (2000, SN:1015843)</b>	<b>Calibration Due: 05/25/2011</b>
<b>Signal Generator</b>	<b>Agilent (E8257C, SN:MY43321570)</b>	<b>Calibration Due: 03/24/2011</b>
<b>Amplifier</b>	<b>Mini-Circuits (ZHL-42, SN:110405)</b>	<b>Calibration Due: 07/29/2011</b>
<b>Power Meter</b>	<b>Agilent (E4416A, SN:QB41292714)</b>	<b>Calibration Due: 03/24/2011</b>
<b>Probe</b>	<b>Antennessa (SN:SN_1109_EP_100)</b>	<b>Calibration Due: 05/04/2011</b>
<b>DIPOLE 1900</b>	<b>Antennessa (DIPG35,SN 48/05)</b>	<b>Calibration Due: 02/09/2012</b>
<b>Phantom</b>	<b>Antennessa (SN:SN41_05_SAM29)</b>	<b>Calibration Due: N/A</b>
<b>Liquid</b>	<b>Antennessa</b>	<b>Calibration Due: N/A</b>
<b>Measurement SW</b>	<b>OPEN SAR V2.1</b>	<b>Calibration Due: N/A</b>

**C. SAR Measurement Results**

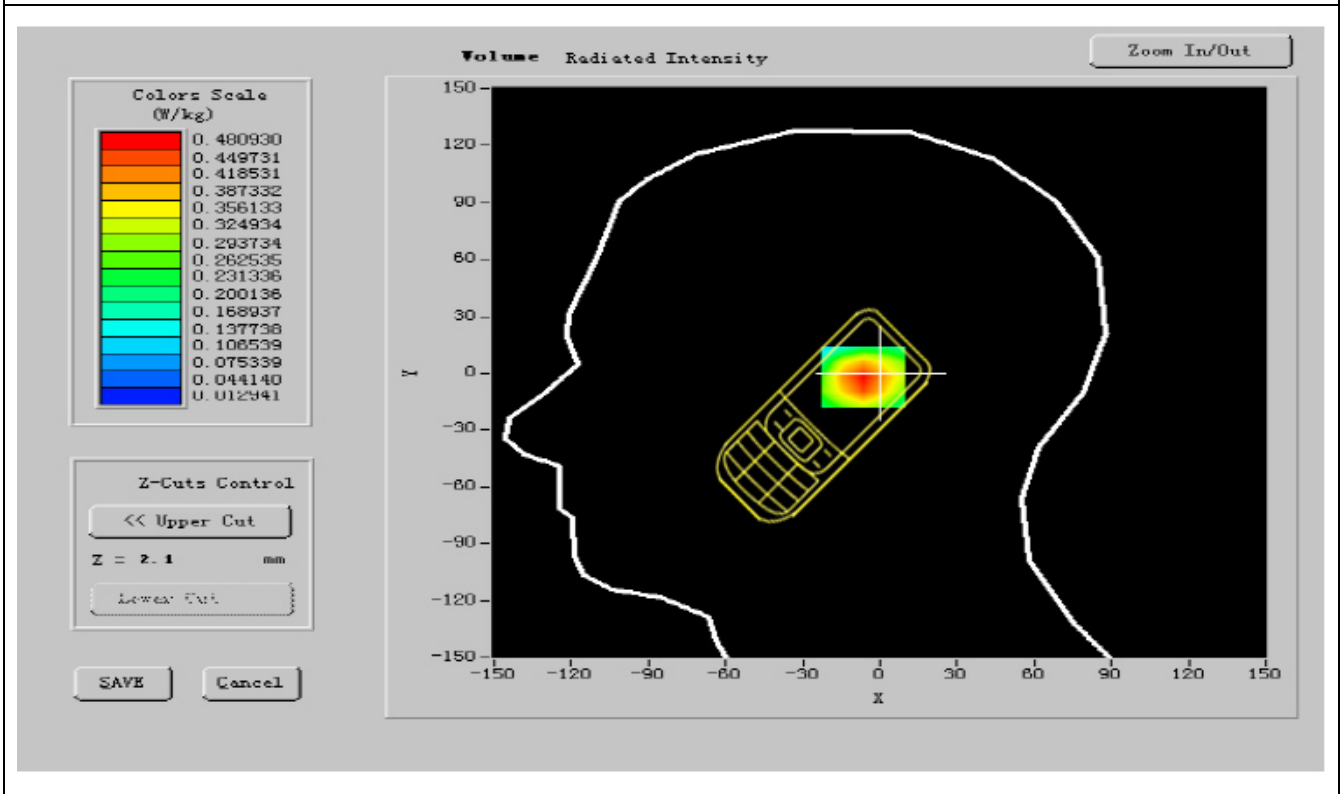
<b>Frequency (MHz)</b>	<b>1880.000000</b>
<b>Relative permittivity (real part)</b>	<b>40.193001</b>
<b>Relative permittivity (imaginary part)</b>	<b>13.813800</b>
<b>Conductivity (S/m)</b>	<b>1.413245</b>
<b>Variation (%)</b>	<b>-1.100000</b>
<b>Ambient Temperature:</b>	<b>21 °C</b>
<b>Liquid Temperature:</b>	<b>20.2 °C</b>
<b>ConvF:</b>	<b>41.05, 42.35, 55.45</b>
<b>Crest factor:</b>	<b>8:1</b>



### SURFACE SAR



### VOLUME SAR







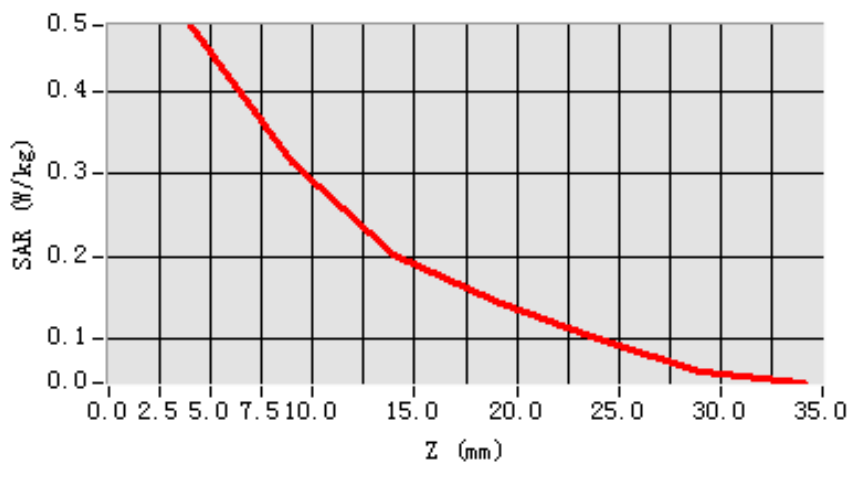
**Maximum location: X=-13.00, Y=-3.00**

SAR 10g (W/Kg)	0.377439
SAR 1g (W/Kg)	0.386510

**Z Axis Scan**

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

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





**MEASUREMENT 12**

**Date of measurement: 02/22/2011**

**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>	GSM1900
<b>Channels</b>	High
<b>Signal</b>	GSM

**B. Instrumentations.**

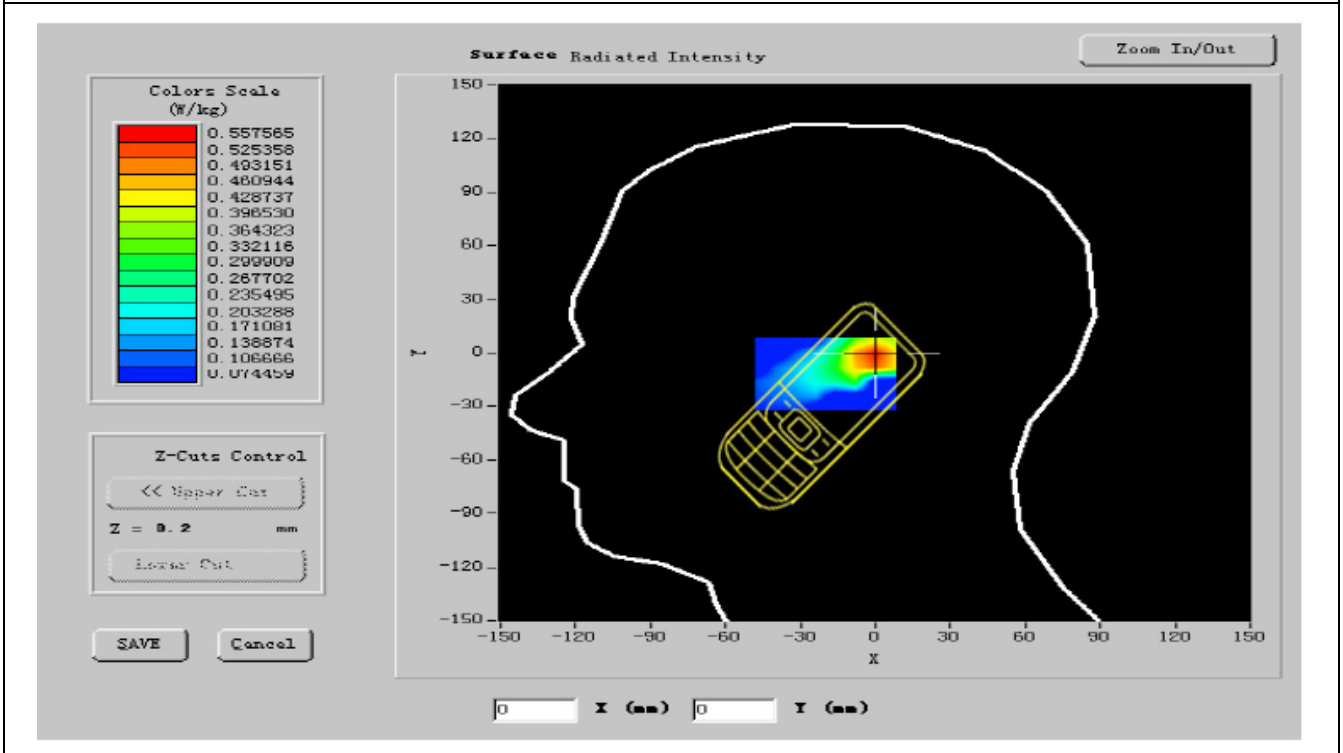
<b>PC</b>	<b>HP (Pentium(R) V3.06GHz, SN:375052-AA1)</b>	<b>Calibration Due: N/A</b>
<b>Wireless Communication Test Set</b>	<b>R&amp;S (CMU200, SN:B23-03291)</b>	<b>Calibration Due: 05/25/2011</b>
<b>Network Analyzer</b>	<b>Agilent(E5071B, MY42301382)</b>	<b>Calibration Due: 03/24/2011</b>
<b>Voltmeter</b>	<b>Keithley (2000, SN:1015843)</b>	<b>Calibration Due: 05/25/2011</b>
<b>Signal Generator</b>	<b>Agilent (E8257C, SN:MY43321570)</b>	<b>Calibration Due: 03/24/2011</b>
<b>Amplifier</b>	<b>Mini-Circuits (ZHL-42, SN:110405)</b>	<b>Calibration Due: 07/29/2011</b>
<b>Power Meter</b>	<b>Agilent (E4416A, SN:QB41292714)</b>	<b>Calibration Due: 03/24/2011</b>
<b>Probe</b>	<b>Antennessa (SN:SN_1109_EP_100)</b>	<b>Calibration Due: 05/04/2011</b>
<b>DIPOLE 1900</b>	<b>Antennessa (DIPG35,SN 48/05)</b>	<b>Calibration Due: 02/09/2012</b>
<b>Phantom</b>	<b>Antennessa (SN:SN41_05_SAM29)</b>	<b>Calibration Due: N/A</b>
<b>Liquid</b>	<b>Antennessa</b>	<b>Calibration Due: N/A</b>
<b>Measurement SW</b>	<b>OPEN SAR V2.1</b>	<b>Calibration Due: N/A</b>

**C. SAR Measurement Results**

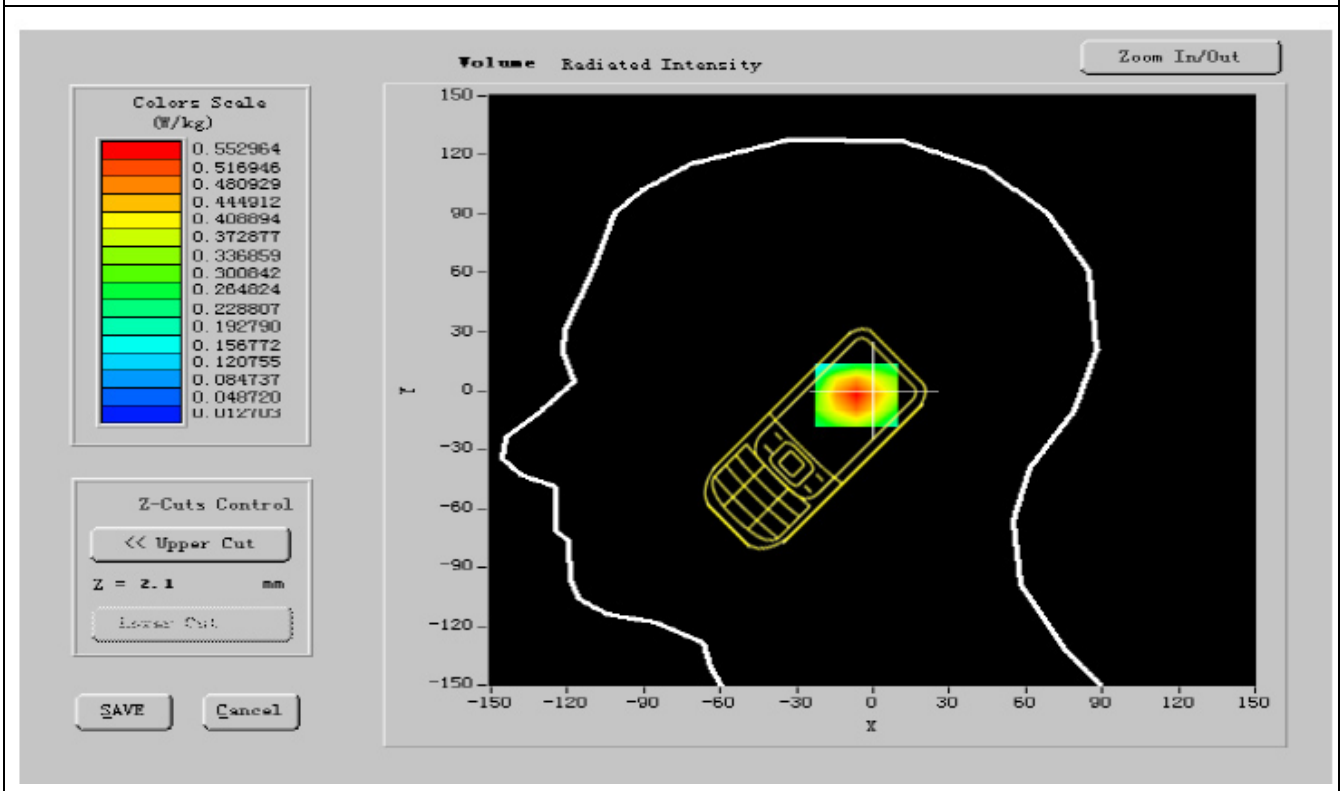
<b>Frequency (MHz)</b>	<b>1909.800000</b>
<b>Relative permittivity (real part)</b>	<b>40.285999</b>
<b>Relative permittivity (imaginary part)</b>	<b>13.669900</b>
<b>Conductivity (S/m)</b>	<b>1.420225</b>
<b>Variation (%)</b>	<b>-1.130000</b>
<b>Ambient Temperature:</b>	<b>21 °C</b>
<b>Liquid Temperature:</b>	<b>20.2 °C</b>
<b>ConvF:</b>	<b>41.05, 42.35, 55.45</b>
<b>Crest factor:</b>	<b>8:1</b>



### SURFACE SAR



### VOLUME SAR





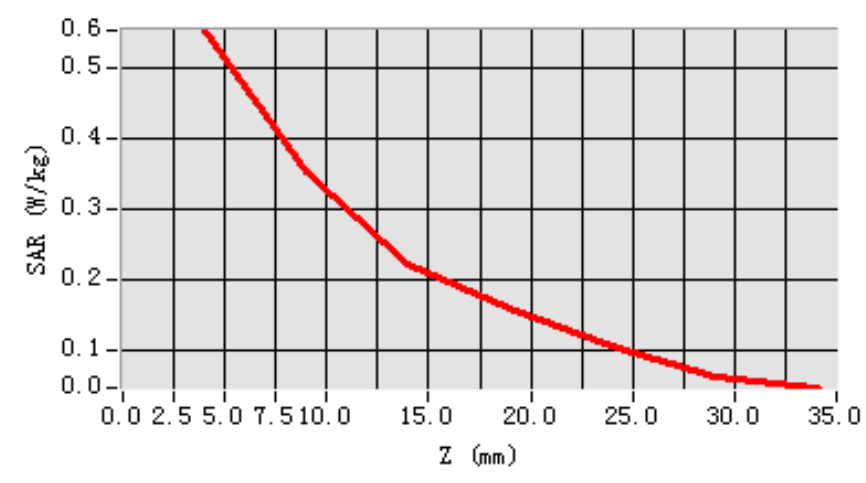
**Maximum location: X=-13.00, Y=-3.00**

SAR 10g (W/Kg)	0.242510
SAR 1g (W/Kg)	0.325317

**Z Axis Scan**

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

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





**MEASUREMENT 13**

Date of measurement: 02/22/2011

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.**

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

**B. Instrumentations.**

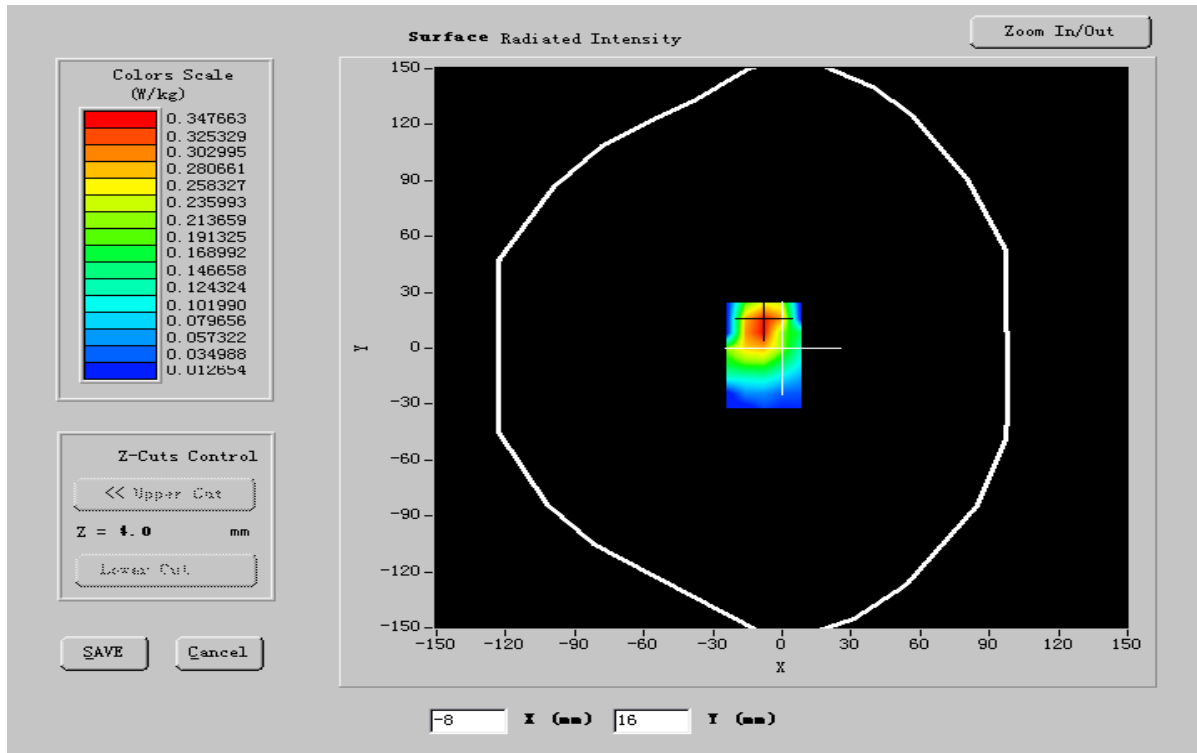
PC	HP (Pentium(R) V3.06GHz, SN:375052-AA1)	Calibration Due: N/A
Wireless Communication Test Set	R&S (CMU200, SN:B23-03291)	Calibration Due: 05/25/2011
Network Analyzer	Agilent(E5071B, MY42301382)	Calibration Due: 03/24/2011
Voltmeter	Keithley (2000, SN:1015843)	Calibration Due: 05/25/2011
Signal Generator	Agilent (E8257C, SN:MY43321570)	Calibration Due: 03/24/2011
Amplifier	Mini-Circuits (ZHL-42, SN:110405)	Calibration Due: 07/29/2011
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibration Due: 03/24/2011
Probe	Antennessa (SN:SN_1109_EP_100)	Calibration Due: 05/04/2011
DIPOLE 1900	Antennessa (DIPG35,SN 48/05)	Calibration Due: 02/09/2012
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibration Due: N/A
Liquid	Antennessa	Calibration Due: N/A
Measurement SW	OPEN SAR V2.1	Calibration Due: N/A

**C. SAR Measurement Results**

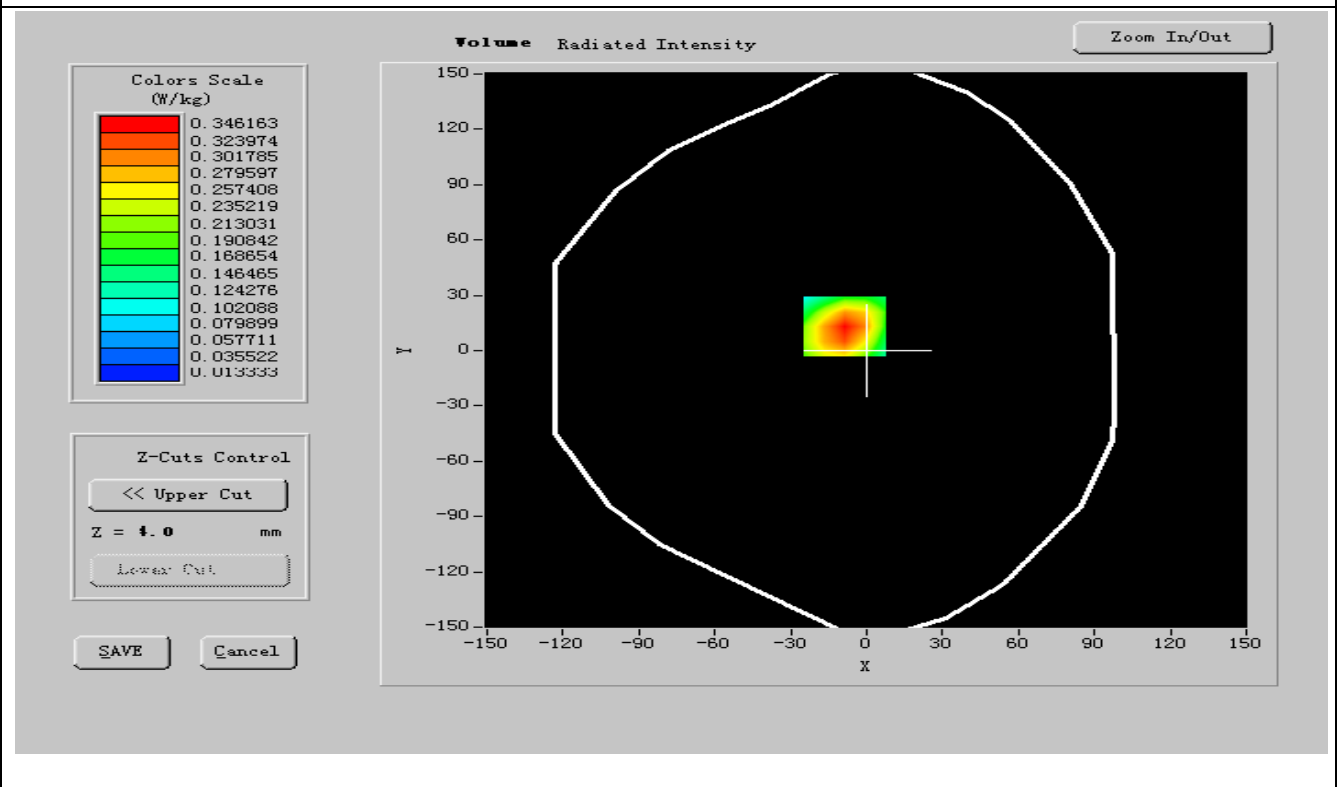
Frequency (MHz)	1850.200000
Relative permittivity (real part)	52.313000
Relative permittivity (imaginary part)	13.584900
Conductivity (S/m)	1.416522
Variation (%)	-0.130000
Ambient Temperature:	21 °C
Liquid Temperature:	20.2 °C
ConvF:	40.42, 41.12, 54.75
Crest factor:	8:1



### SURFACE SAR



### VOLUME SAR





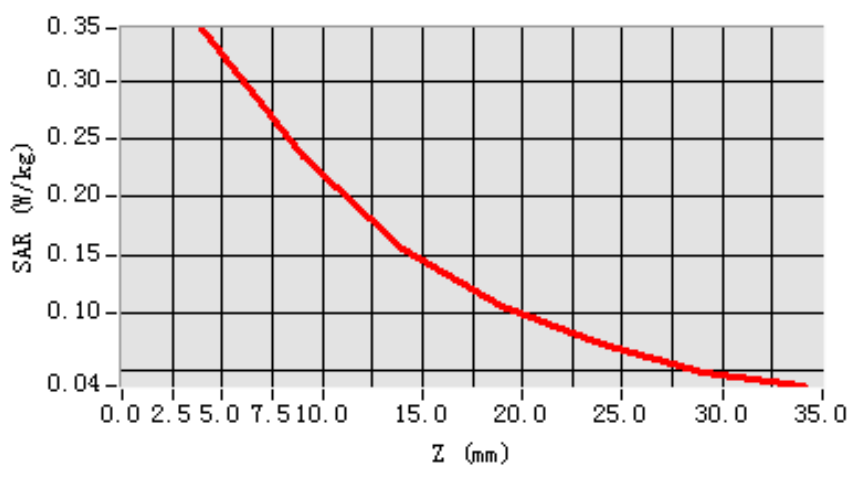
**Maximum location: X=-13.00, Y=-3.00**

SAR 10g (W/Kg)	0.186104
SAR 1g (W/Kg)	0.386015

**Z Axis Scan**

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

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





**MEASUREMENT 14**

**Date of measurement: 02/22/2011**

**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>	GSM1900
<b>Channels</b>	Middle
<b>Signal</b>	GSM

**B. Instrumentations.**

<b>PC</b>	<b>HP (Pentium(R) V3.06GHz, SN:375052-AA1)</b>	<b>Calibration Due: N/A</b>
<b>Wireless Communication Test Set</b>	<b>R&amp;S (CMU200, SN:B23-03291)</b>	<b>Calibration Due: 05/25/2011</b>
<b>Network Analyzer</b>	<b>Agilent(E5071B, MY42301382)</b>	<b>Calibration Due: 03/24/2011</b>
<b>Voltmeter</b>	<b>Keithley (2000, SN:1015843)</b>	<b>Calibration Due: 05/25/2011</b>
<b>Signal Generator</b>	<b>Agilent (E8257C, SN:MY43321570)</b>	<b>Calibration Due: 03/24/2011</b>
<b>Amplifier</b>	<b>Mini-Circuits (ZHL-42, SN:110405)</b>	<b>Calibration Due: 07/29/2011</b>
<b>Power Meter</b>	<b>Agilent (E4416A, SN:QB41292714)</b>	<b>Calibration Due: 03/24/2011</b>
<b>Probe</b>	<b>Antennessa (SN:SN_1109_EP_100)</b>	<b>Calibration Due: 05/04/2011</b>
<b>DIPOLE 1900</b>	<b>Antennessa (DIPG35,SN 48/05)</b>	<b>Calibration Due: 02/09/2012</b>
<b>Phantom</b>	<b>Antennessa (SN:SN41_05_SAM29)</b>	<b>Calibration Due: N/A</b>
<b>Liquid</b>	<b>Antennessa</b>	<b>Calibration Due: N/A</b>
<b>Measurement SW</b>	<b>OPEN SAR V2.1</b>	<b>Calibration Due: N/A</b>

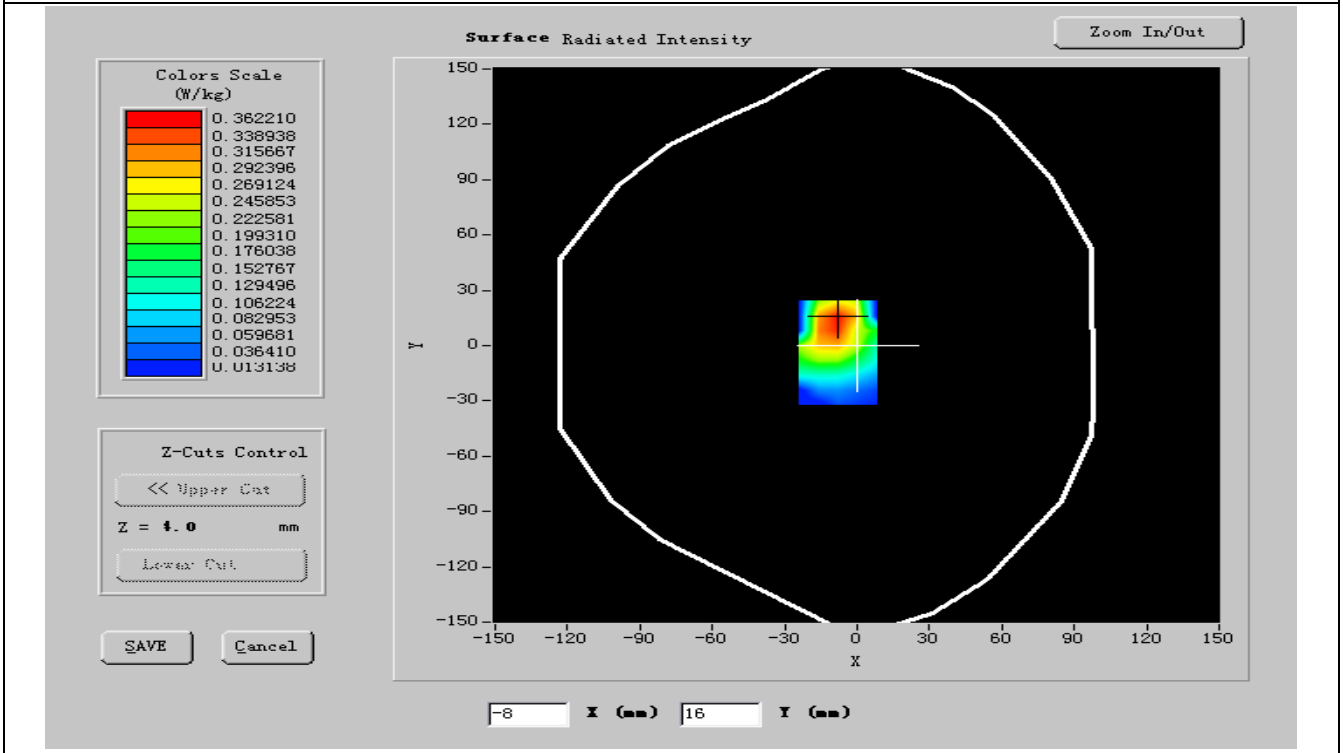
**C. SAR Measurement Results**

<b>Frequency (MHz)</b>	<b>1880.000000</b>
<b>Relative permittivity (real part)</b>	<b>52.893001</b>
<b>Relative permittivity (imaginary part)</b>	<b>13.813800</b>
<b>Conductivity (S/m)</b>	<b>1.512775</b>
<b>Variation (%)</b>	<b>-0.700000</b>
<b>Ambient Temperature:</b>	<b>21 °C</b>
<b>Liquid Temperature:</b>	<b>20.2 °C</b>
<b>ConvF:</b>	<b>40.42, 41.12, 54.75</b>
<b>Crest factor:</b>	<b>8:1</b>

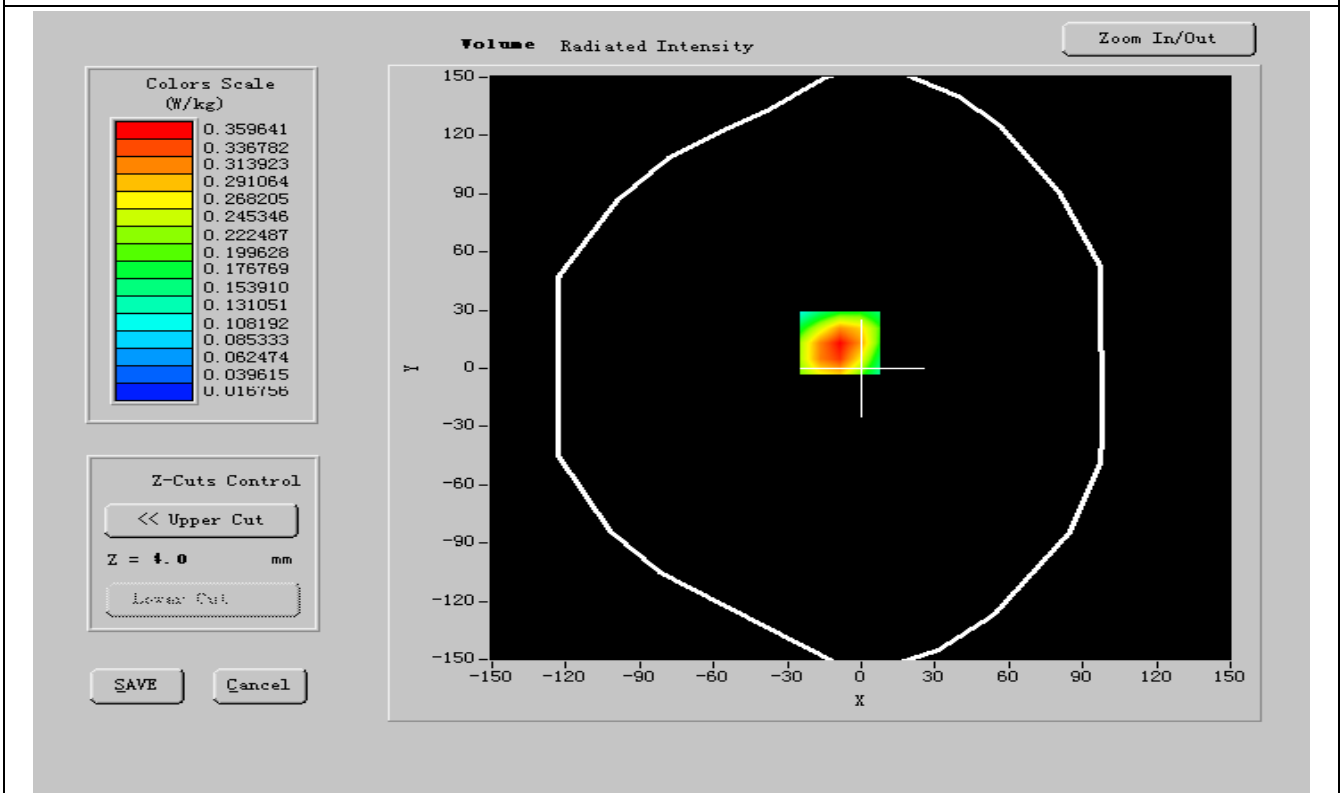




### SURFACE SAR



### VOLUME SAR





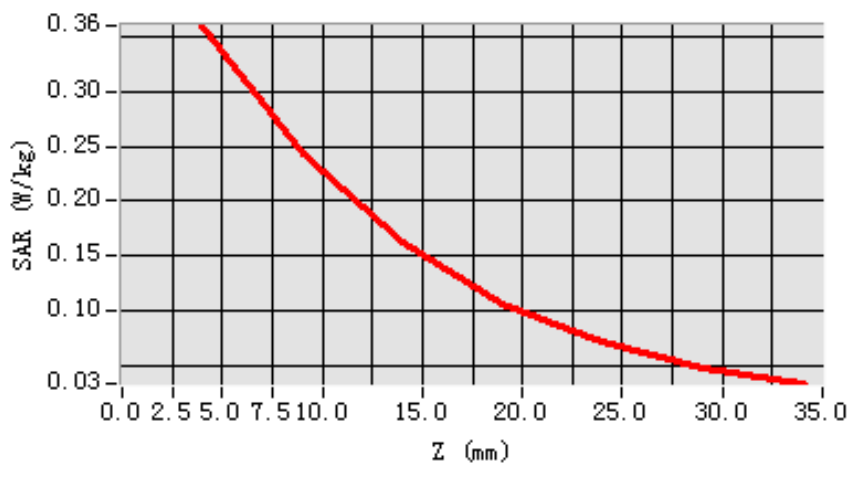
**Maximum location: X=-13.00, Y=-3.00**

SAR 10g (W/Kg)	0.252802
SAR 1g (W/Kg)	0.355606

**Z Axis Scan**

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

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





**MEASUREMENT 15**

Date of measurement: 02/22/2011

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.**

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

**B. Instrumentations.**

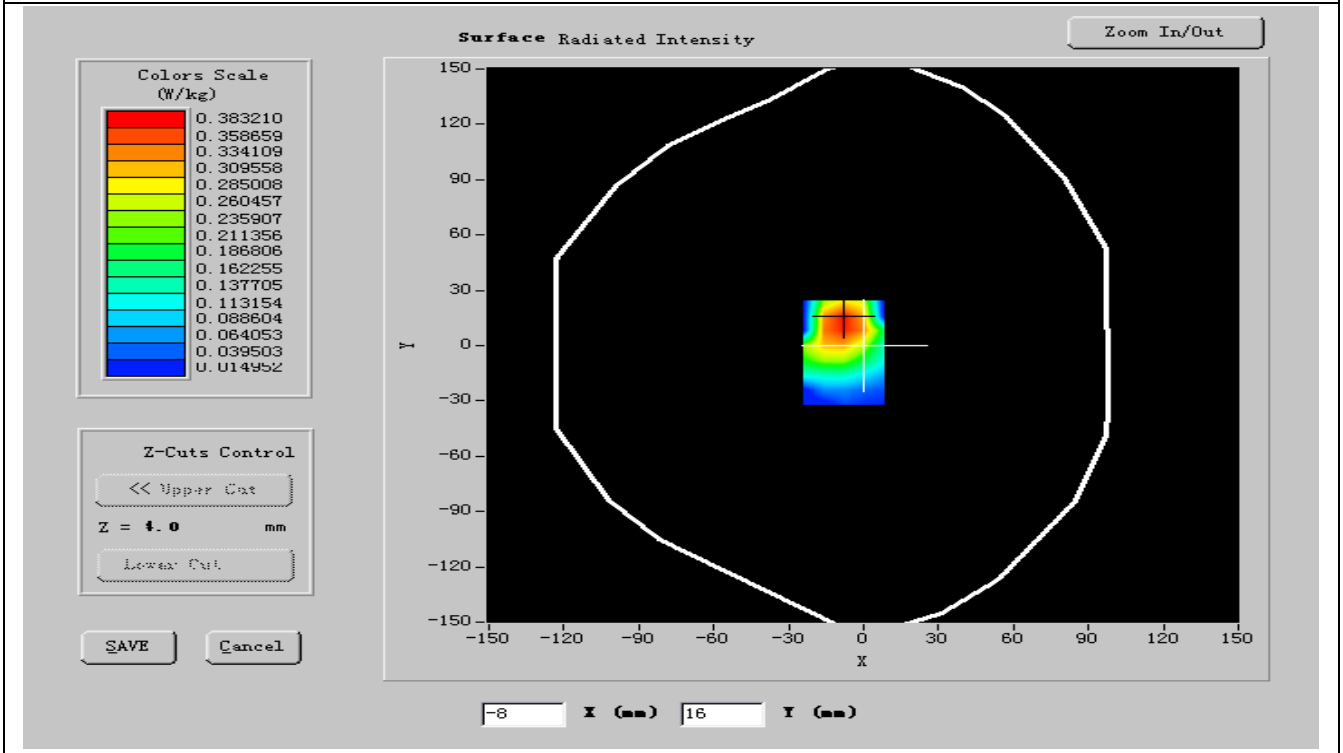
PC	HP (Pentium(R) V3.06GHz, SN:375052-AA1)	Calibration Due: N/A
Wireless Communication Test Set	R&S (CMU200, SN:B23-03291)	Calibration Due: 05/25/2011
Network Analyzer	Agilent(E5071B, MY42301382)	Calibration Due: 03/24/2011
Voltmeter	Keithley (2000, SN:1015843)	Calibration Due: 05/25/2011
Signal Generator	Agilent (E8257C, SN:MY43321570)	Calibration Due: 03/24/2011
Amplifier	Mini-Circuits (ZHL-42, SN:110405)	Calibration Due: 07/29/2011
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibration Due: 03/24/2011
Probe	Antenna (SN:SN_1109_EP_100)	Calibration Due: 05/04/2011
DIPOLE 1900	Antenna (DIPG35,SN 48/05)	Calibration Due: 02/09/2012
Phantom	Antenna (SN:SN41_05_SAM29)	Calibration Due: N/A
Liquid	Antenna	Calibration Due: N/A
Measurement SW	OPEN SAR V2.1	Calibration Due: N/A

**C. SAR Measurement Results**

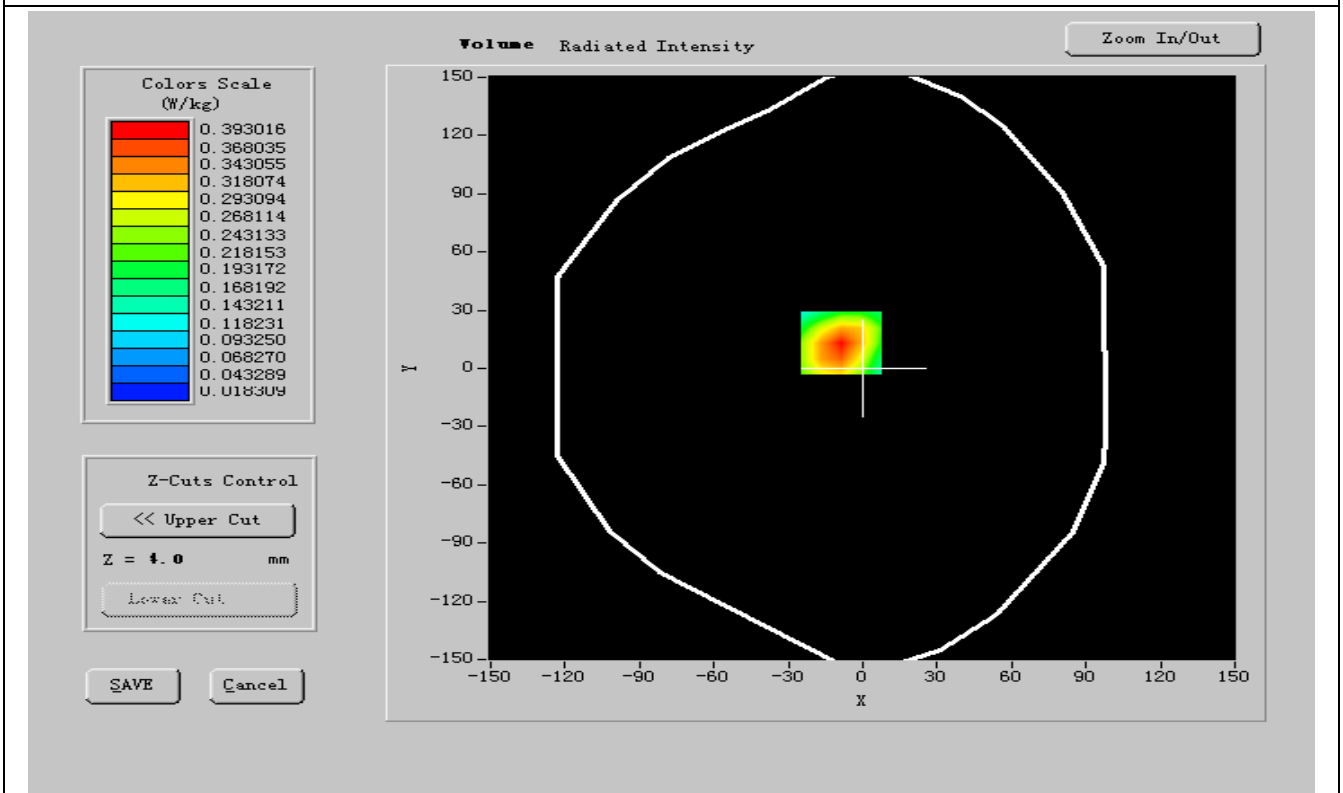
Frequency (MHz)	1909.800000
Relative permittivity (real part)	52.885999
Relative permittivity (imaginary part)	13.669900
Conductivity (S/m)	1.510225
Variation (%)	-0.600000
Ambient Temperature:	21 °C
Liquid Temperature:	20.2 °C
ConvF:	40.42, 41.12, 54.75
Crest factor:	8:1



### SURFACE SAR



### VOLUME SAR





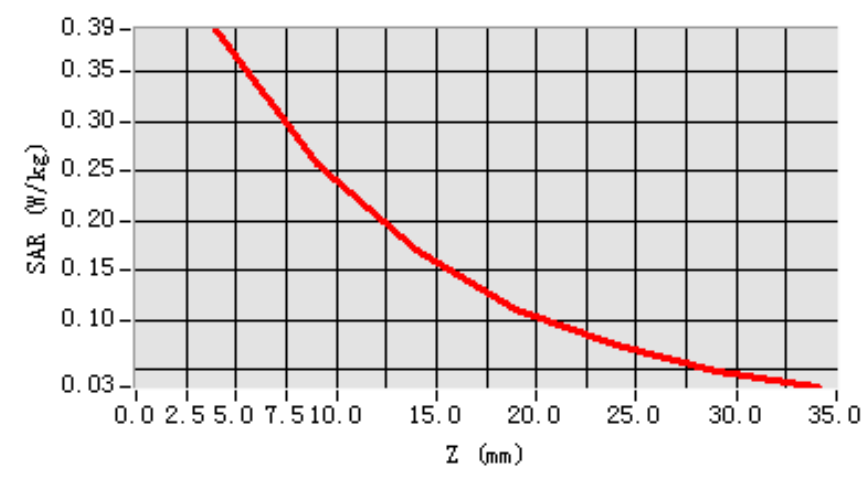
**Maximum location: X=-13.00, Y=-3.00**

SAR 10g (W/Kg)	0.230637
SAR 1g (W/Kg)	0.305611

**Z Axis Scan**

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

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





**MEASUREMENT 16**

**Date of measurement: 02/22/2011**

**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>	GSM1900
<b>Channels</b>	Low
<b>Signal</b>	GSM

**B. Instrumentations.**

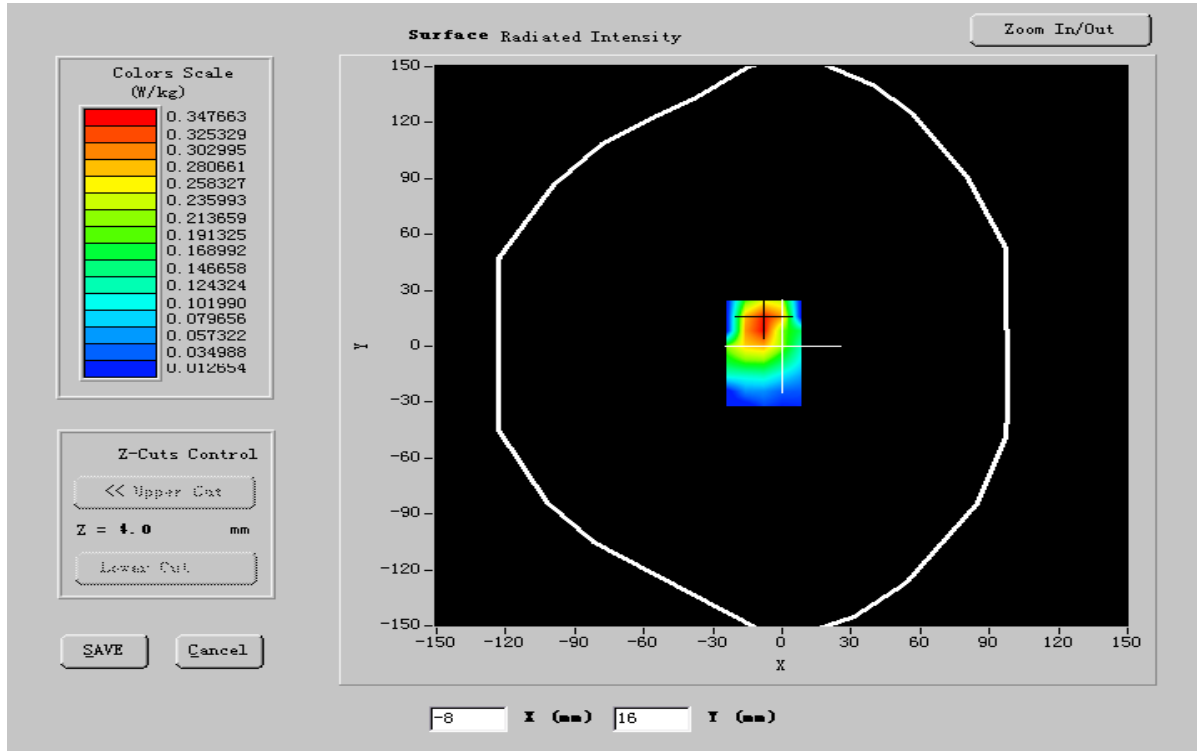
<b>PC</b>	<b>HP (Pentium(R) V3.06GHz, SN:375052-AA1)</b>	<b>Calibration Due: N/A</b>
<b>Wireless Communication Test Set</b>	<b>R&amp;S (CMU200, SN:B23-03291)</b>	<b>Calibration Due: 05/25/2011</b>
<b>Network Analyzer</b>	<b>Agilent(E5071B, MY42301382)</b>	<b>Calibration Due: 03/24/2011</b>
<b>Voltmeter</b>	<b>Keithley (2000, SN:1015843)</b>	<b>Calibration Due: 05/25/2011</b>
<b>Signal Generator</b>	<b>Agilent (E8257C, SN:MY43321570)</b>	<b>Calibration Due: 03/24/2011</b>
<b>Amplifier</b>	<b>Mini-Circuits (ZHL-42, SN:110405)</b>	<b>Calibration Due: 07/29/2011</b>
<b>Power Meter</b>	<b>Agilent (E4416A, SN:QB41292714)</b>	<b>Calibration Due: 03/24/2011</b>
<b>Probe</b>	<b>Antennessa (SN:SN_1109_EP_100)</b>	<b>Calibration Due: 05/04/2011</b>
<b>DIPOLE 1900</b>	<b>Antennessa (DIPG35,SN 48/05)</b>	<b>Calibration Due: 02/09/2012</b>
<b>Phantom</b>	<b>Antennessa (SN:SN41_05_SAM29)</b>	<b>Calibration Due: N/A</b>
<b>Liquid</b>	<b>Antennessa</b>	<b>Calibration Due: N/A</b>
<b>Measurement SW</b>	<b>OPEN SAR V2.1</b>	<b>Calibration Due: N/A</b>

**C. SAR Measurement Results**

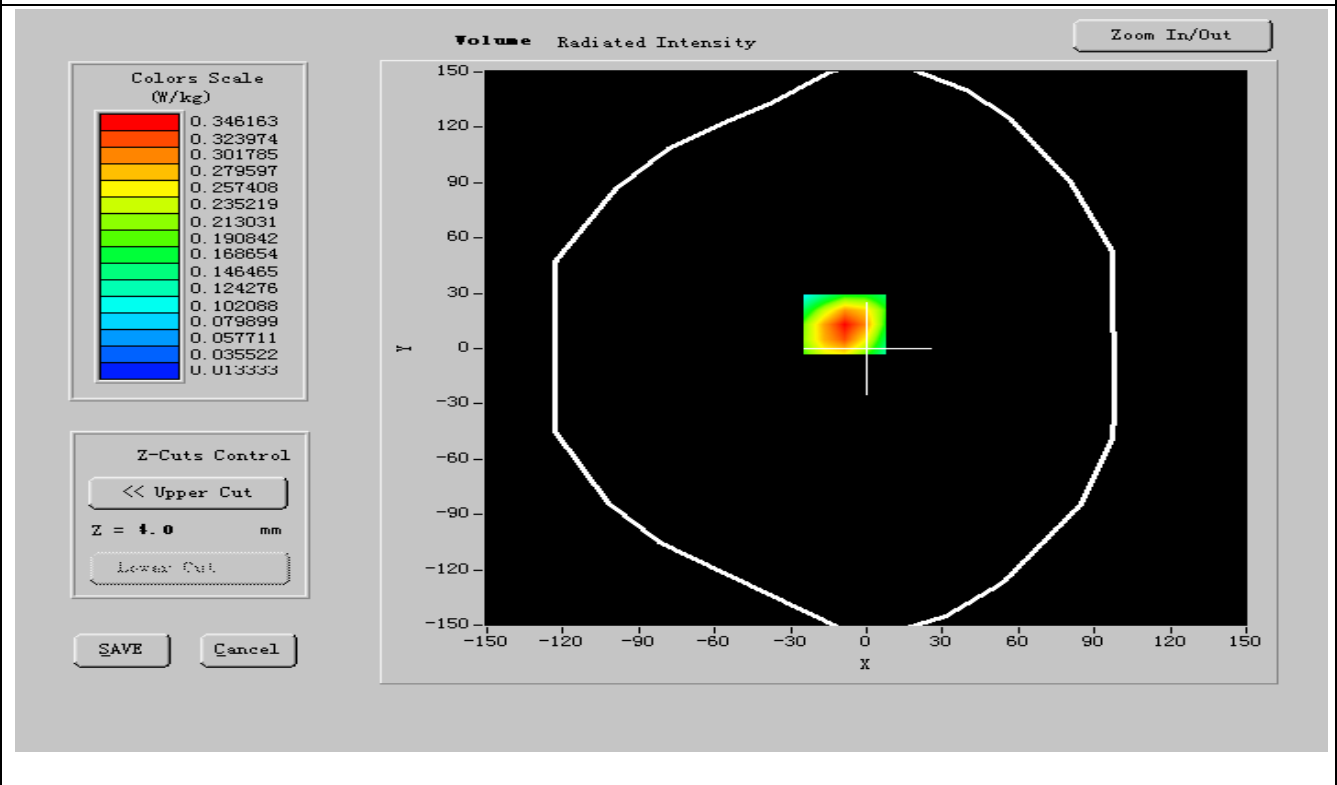
<b>Frequency (MHz)</b>	<b>1850.200000</b>
<b>Relative permittivity (real part)</b>	<b>52.313000</b>
<b>Relative permittivity (imaginary part)</b>	<b>13.584900</b>
<b>Conductivity (S/m)</b>	<b>1.416522</b>
<b>Variation (%)</b>	<b>-0.130000</b>
<b>Ambient Temperature:</b>	<b>21 °C</b>
<b>Liquid Temperature:</b>	<b>20.2 °C</b>
<b>ConvF:</b>	<b>40.42, 41.12, 54.75</b>
<b>Crest factor:</b>	<b>8:1</b>



### SURFACE SAR



### VOLUME SAR





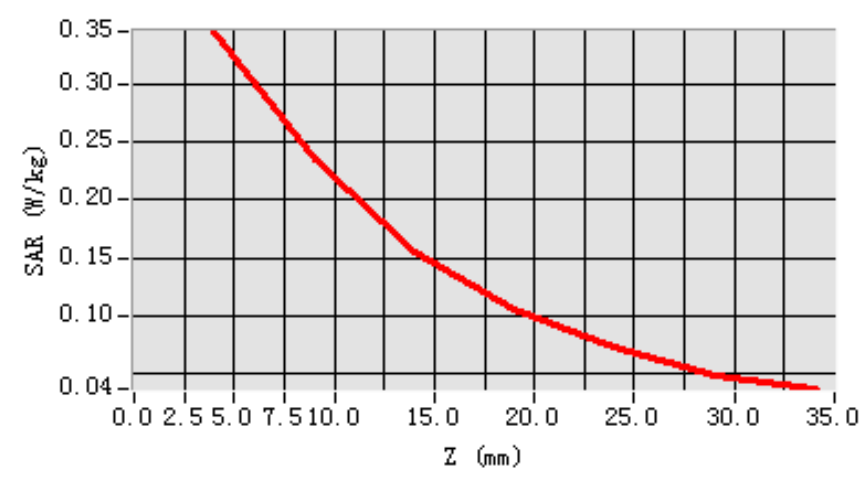
**Maximum location: X=-13.00, Y=-3.00**

SAR 10g (W/Kg)	0.149777
SAR 1g (W/Kg)	0.302301

**Z Axis Scan**

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

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







**MEASUREMENT 17**

**Date of measurement: 02/22/2011**

**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>	GSM1900
<b>Channels</b>	Middle
<b>Signal</b>	GSM

**B. Instrumentations.**

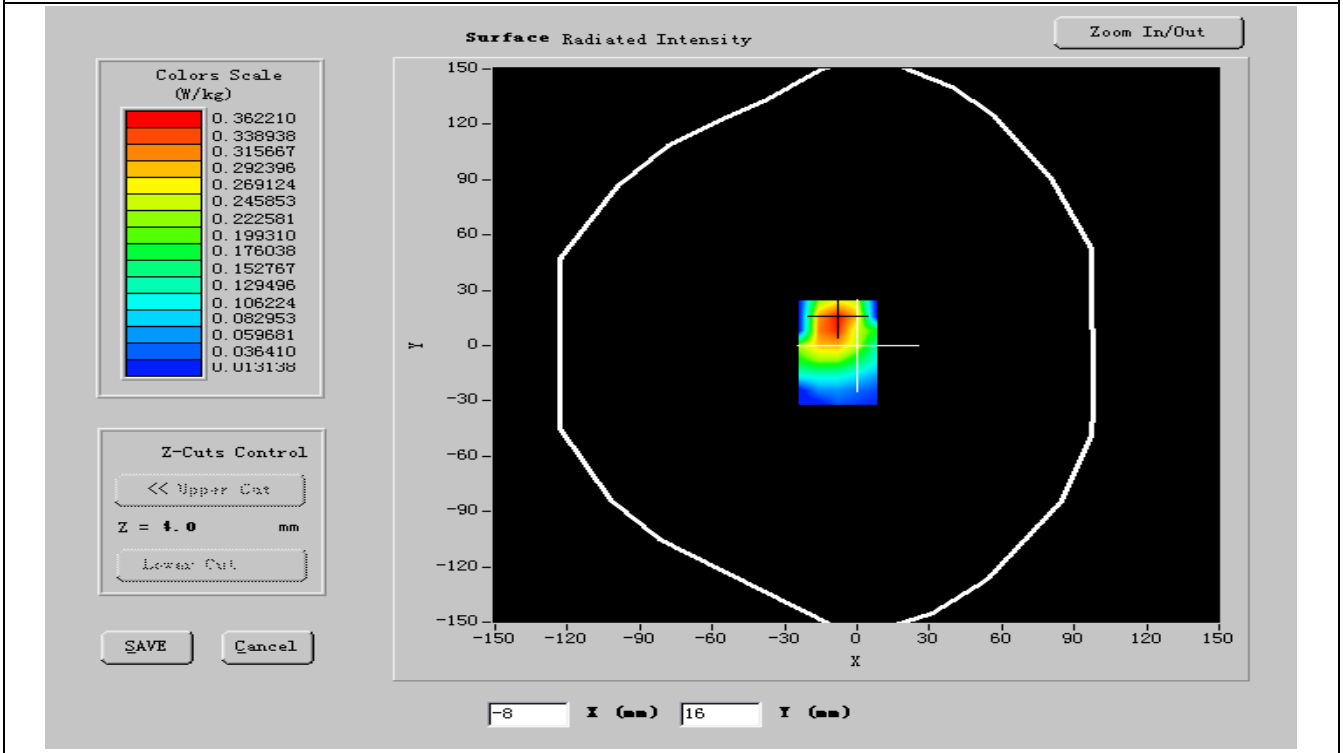
<b>PC</b>	<b>HP (Pentium(R) V3.06GHz, SN:375052-AA1)</b>	<b>Calibration Due: N/A</b>
<b>Wireless Communication Test Set</b>	<b>R&amp;S (CMU200, SN:B23-03291)</b>	<b>Calibration Due: 05/25/2011</b>
<b>Network Analyzer</b>	<b>Agilent(E5071B, MY42301382)</b>	<b>Calibration Due: 03/24/2011</b>
<b>Voltmeter</b>	<b>Keithley (2000, SN:1015843)</b>	<b>Calibration Due: 05/25/2011</b>
<b>Signal Generator</b>	<b>Agilent (E8257C, SN:MY43321570)</b>	<b>Calibration Due: 03/24/2011</b>
<b>Amplifier</b>	<b>Mini-Circuits (ZHL-42, SN:110405)</b>	<b>Calibration Due: 07/29/2011</b>
<b>Power Meter</b>	<b>Agilent (E4416A, SN:QB41292714)</b>	<b>Calibration Due: 03/24/2011</b>
<b>Probe</b>	<b>Antennessa (SN:SN_1109_EP_100)</b>	<b>Calibration Due: 05/04/2011</b>
<b>DIPOLE 1900</b>	<b>Antennessa (DIPG35,SN 48/05)</b>	<b>Calibration Due: 02/09/2012</b>
<b>Phantom</b>	<b>Antennessa (SN:SN41_05_SAM29)</b>	<b>Calibration Due: N/A</b>
<b>Liquid</b>	<b>Antennessa</b>	<b>Calibration Due: N/A</b>
<b>Measurement SW</b>	<b>OPEN SAR V2.1</b>	<b>Calibration Due: N/A</b>

**C. SAR Measurement Results**

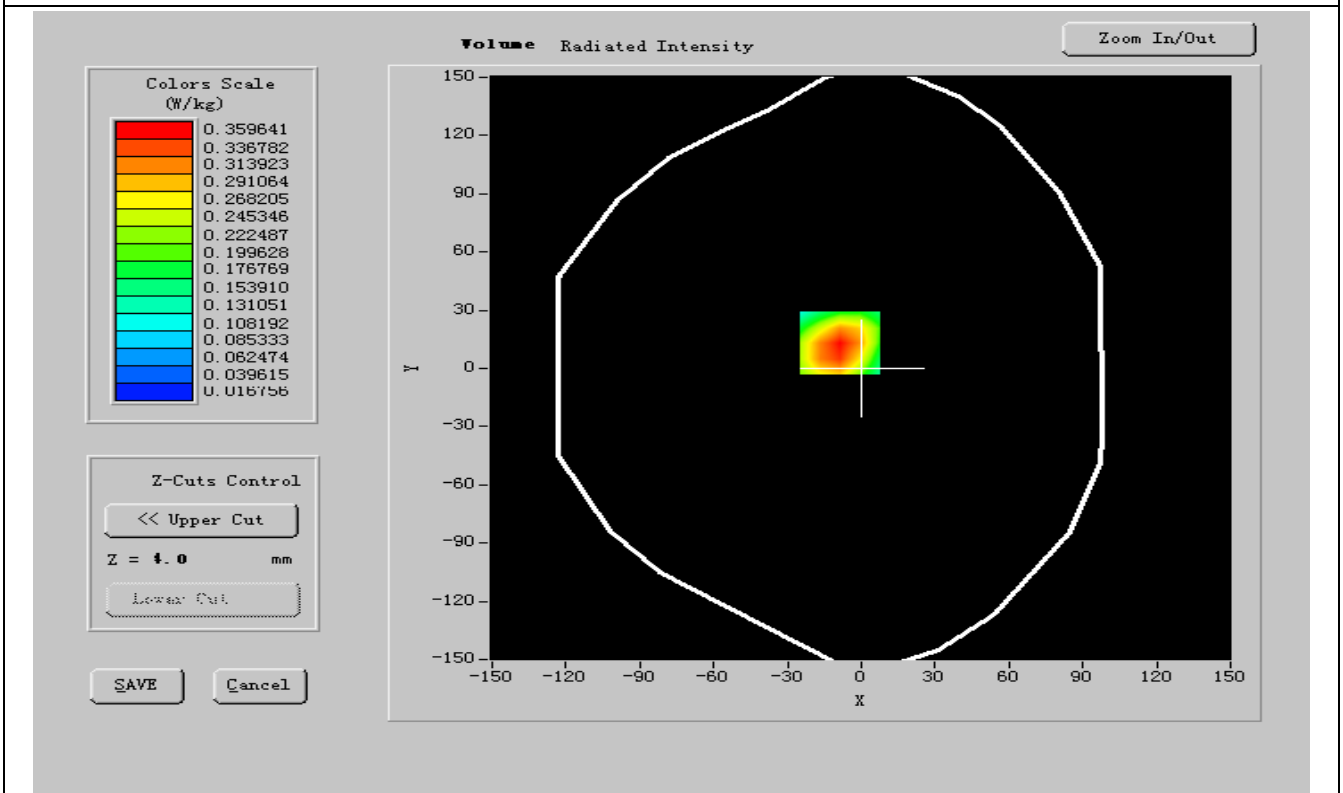
<b>Frequency (MHz)</b>	<b>1880.000000</b>
<b>Relative permittivity (real part)</b>	<b>52.893001</b>
<b>Relative permittivity (imaginary part)</b>	<b>13.813800</b>
<b>Conductivity (S/m)</b>	<b>1.512775</b>
<b>Variation (%)</b>	<b>-0.700000</b>
<b>Ambient Temperature:</b>	<b>21 °C</b>
<b>Liquid Temperature:</b>	<b>20.2 °C</b>
<b>ConvF:</b>	<b>40.42, 41.12, 54.75</b>
<b>Crest factor:</b>	<b>8:1</b>



### SURFACE SAR



### VOLUME SAR





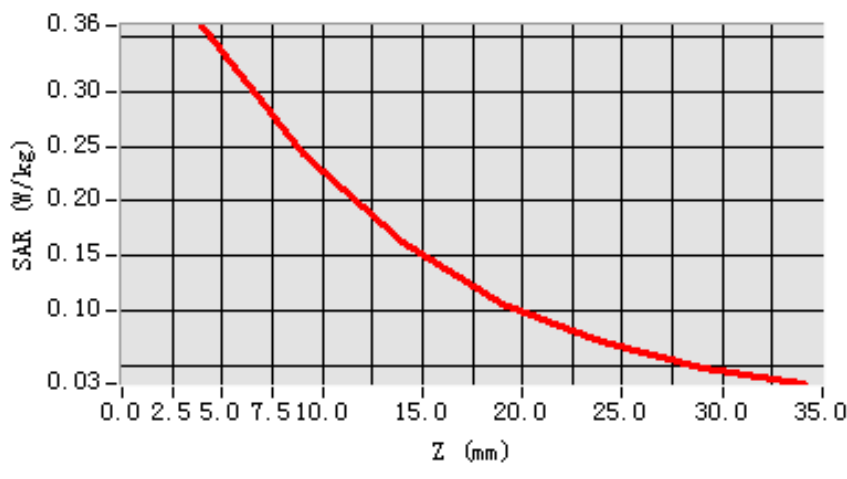
**Maximum location: X=-13.00, Y=-3.00**

SAR 10g (W/Kg)	0.173320
SAR 1g (W/Kg)	0.331416

**Z Axis Scan**

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

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





**MEASUREMENT 18**

**Date of measurement: 02/22/2011**

**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>	GSM1900
<b>Channels</b>	High
<b>Signal</b>	GSM

**B. Instrumentations.**

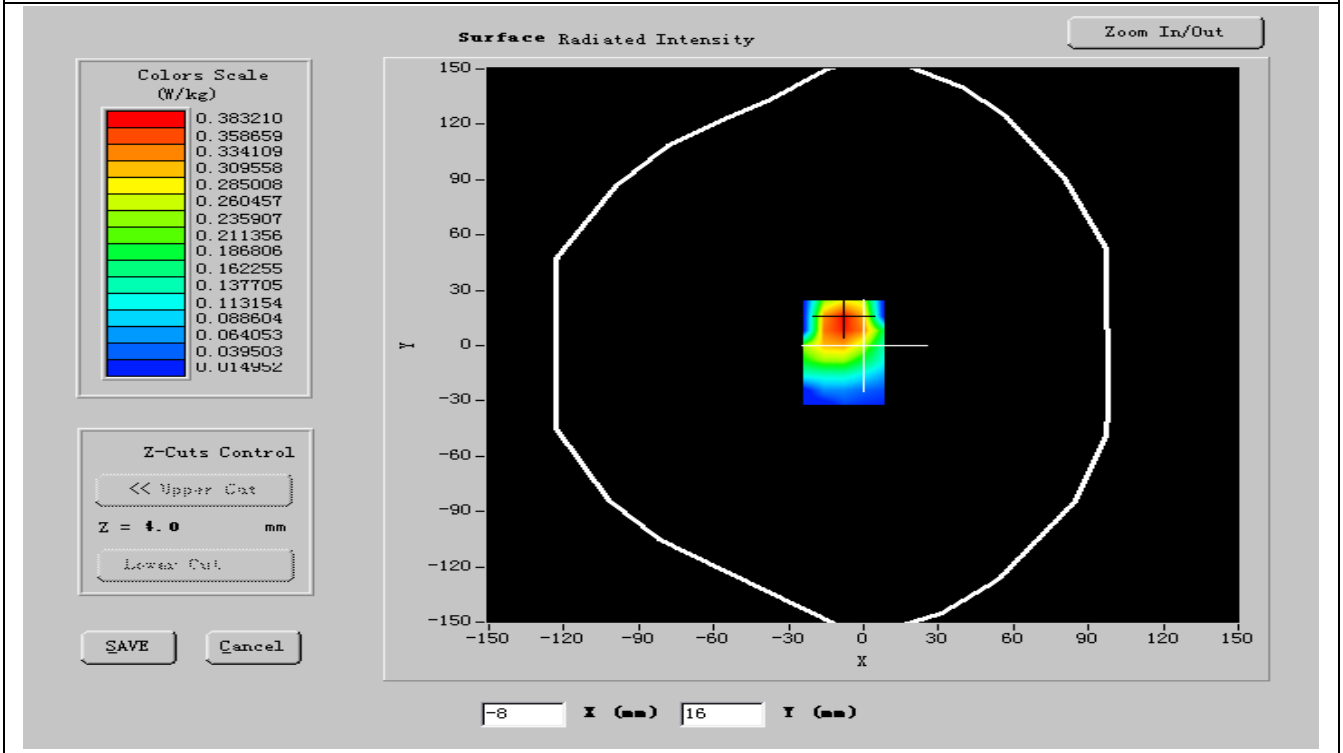
<b>PC</b>	<b>HP (Pentium(R) V3.06GHz, SN:375052-AA1)</b>	<b>Calibration Due: N/A</b>
<b>Wireless Communication Test Set</b>	<b>R&amp;S (CMU200, SN:B23-03291)</b>	<b>Calibration Due: 05/25/2011</b>
<b>Network Analyzer</b>	<b>Agilent(E5071B, MY42301382)</b>	<b>Calibration Due: 03/24/2011</b>
<b>Voltmeter</b>	<b>Keithley (2000, SN:1015843)</b>	<b>Calibration Due: 05/25/2011</b>
<b>Signal Generator</b>	<b>Agilent (E8257C, SN:MY43321570)</b>	<b>Calibration Due: 03/24/2011</b>
<b>Amplifier</b>	<b>Mini-Circuits (ZHL-42, SN:110405)</b>	<b>Calibration Due: 07/29/2011</b>
<b>Power Meter</b>	<b>Agilent (E4416A, SN:QB41292714)</b>	<b>Calibration Due: 03/24/2011</b>
<b>Probe</b>	<b>Antennessa (SN:SN_1109_EP_100)</b>	<b>Calibration Due: 05/04/2011</b>
<b>DIPOLE 1900</b>	<b>Antennessa (DIPG35,SN 48/05)</b>	<b>Calibration Due: 02/09/2012</b>
<b>Phantom</b>	<b>Antennessa (SN:SN41_05_SAM29)</b>	<b>Calibration Due: N/A</b>
<b>Liquid</b>	<b>Antennessa</b>	<b>Calibration Due: N/A</b>
<b>Measurement SW</b>	<b>OPEN SAR V2.1</b>	<b>Calibration Due: N/A</b>

**C. SAR Measurement Results**

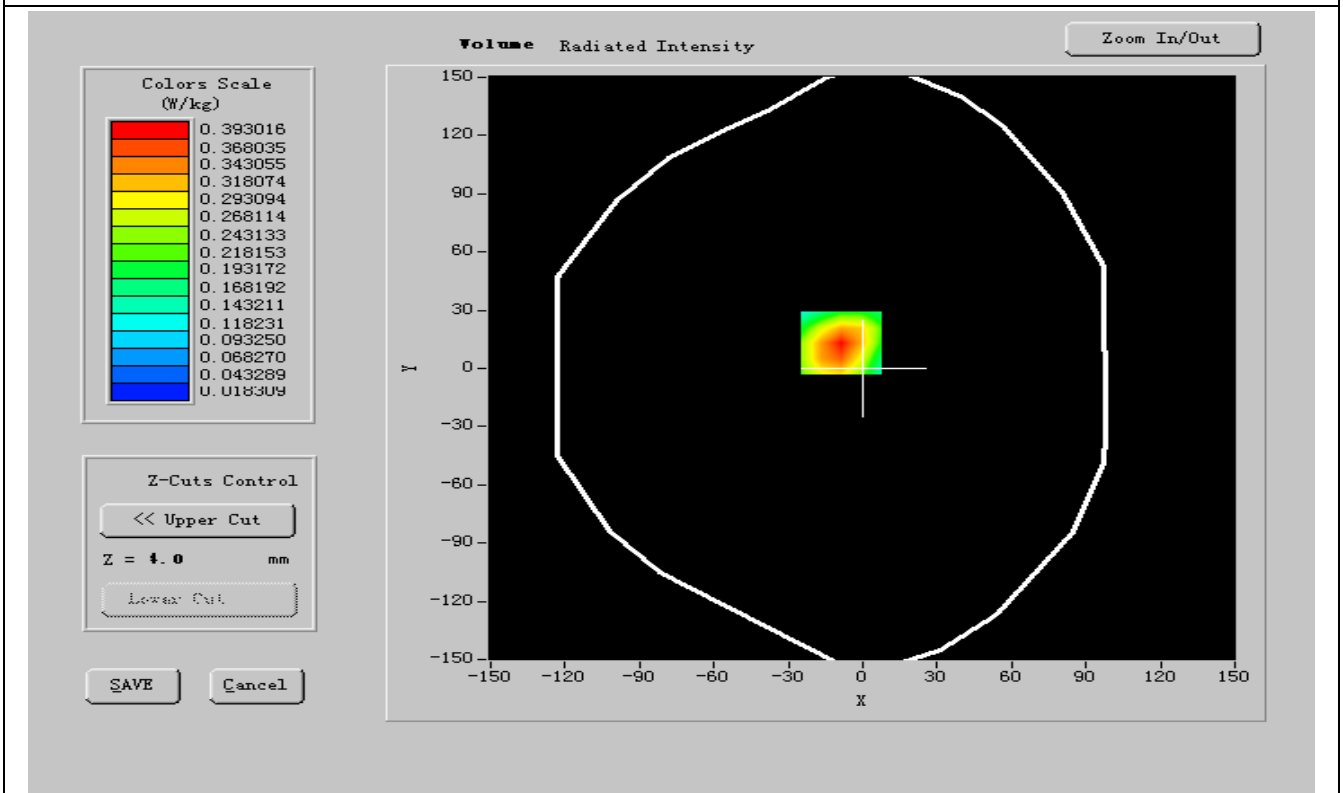
<b>Frequency (MHz)</b>	<b>1909.800000</b>
<b>Relative permittivity (real part)</b>	<b>52.885999</b>
<b>Relative permittivity (imaginary part)</b>	<b>13.669900</b>
<b>Conductivity (S/m)</b>	<b>1.510225</b>
<b>Variation (%)</b>	<b>-0.600000</b>
<b>Ambient Temperature:</b>	<b>21 °C</b>
<b>Liquid Temperature:</b>	<b>20.2 °C</b>
<b>ConvF:</b>	<b>40.42, 41.12, 54.75</b>
<b>Crest factor:</b>	<b>8:1</b>



### SURFACE SAR



### VOLUME SAR





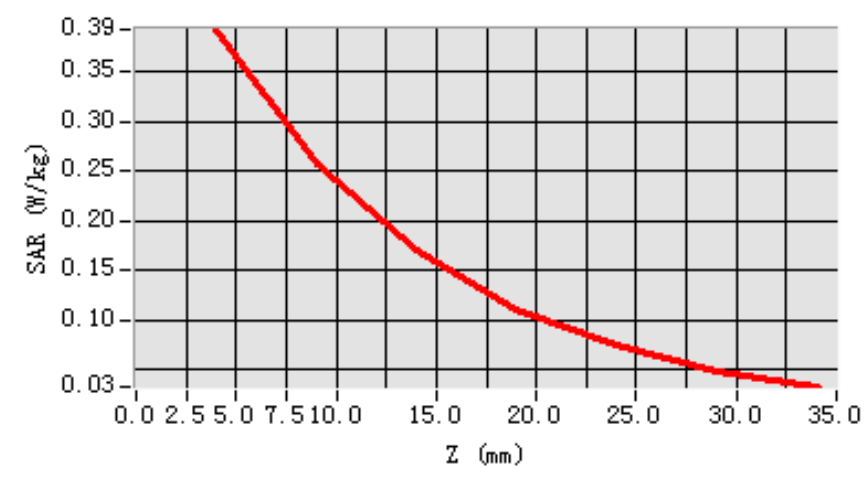
**Maximum location: X=-13.00, Y=-3.00**

SAR 10g (W/Kg)	0.250306
SAR 1g (W/Kg)	0.325013

**Z Axis Scan**

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

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





**MEASUREMENT 19**

Date of measurement: 02/22/2011

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.**

Phantom File	zinf15.txt, Adaptive 2 max
Phantom	Body
Device Position	FrontSide toward phantom
Band	GPRS1900
Channels	Low
Signal	GPRS

**B. Instrumentations.**

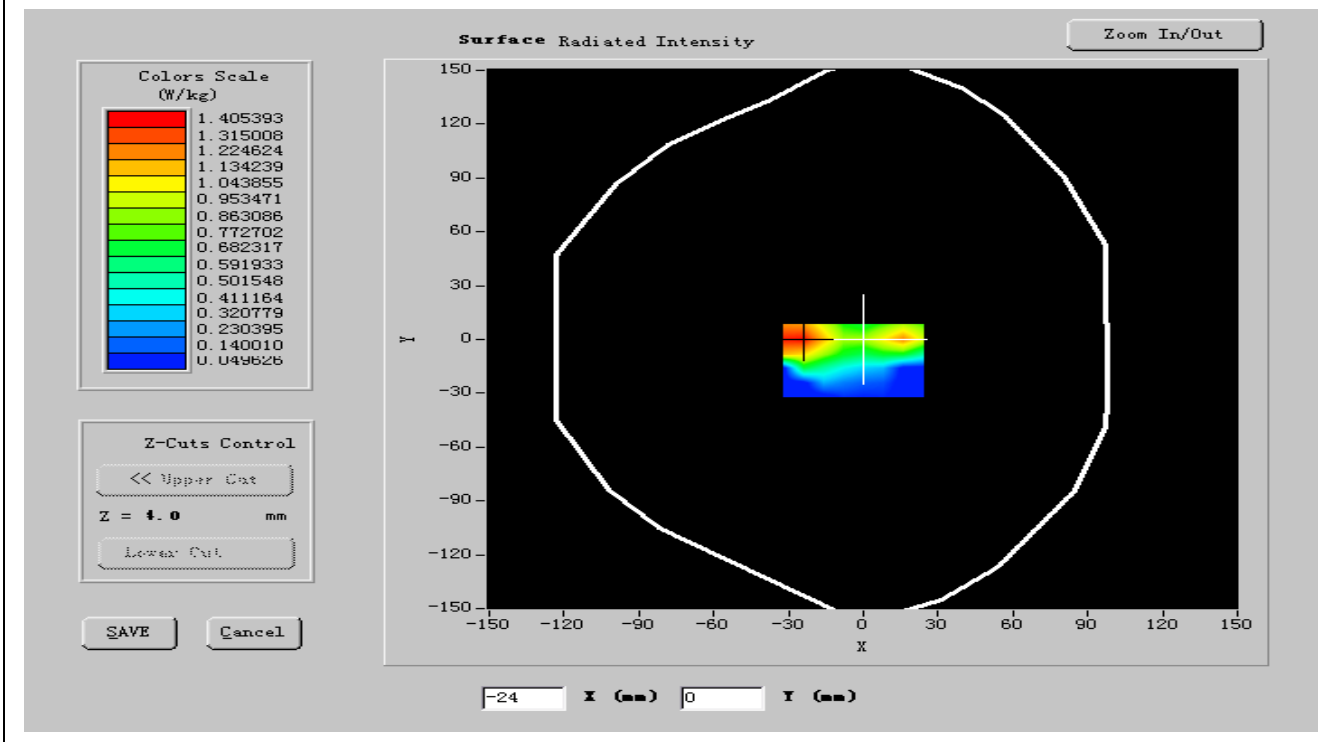
PC	HP (Pentium(R) V3.06GHz, SN:375052-AA1)	Calibration Due: N/A
Wireless Communication Test Set	R&S (CMU200, SN:B23-03291)	Calibration Due: 05/25/2011
Network Analyzer	Agilent(E5071B, MY42301382)	Calibration Due: 03/24/2011
Voltmeter	Keithley (2000, SN:1015843)	Calibration Due: 05/25/2011
Signal Generator	Agilent (E8257C, SN:MY43321570)	Calibration Due: 03/24/2011
Amplifier	Mini-Circuits (ZHL-42, SN:110405)	Calibration Due: 07/29/2011
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibration Due: 03/24/2011
Probe	Antennessa (SN:SN_1109_EP_100)	Calibration Due: 05/04/2011
DIPOLE 1900	Antennessa (DIPG35,SN 48/05)	Calibration Due: 02/09/2012
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibration Due: N/A
Liquid	Antennessa	Calibration Due: N/A
Measurement SW	OPEN SAR V2.1	Calibration Due: N/A

**C. SAR Measurement Results**

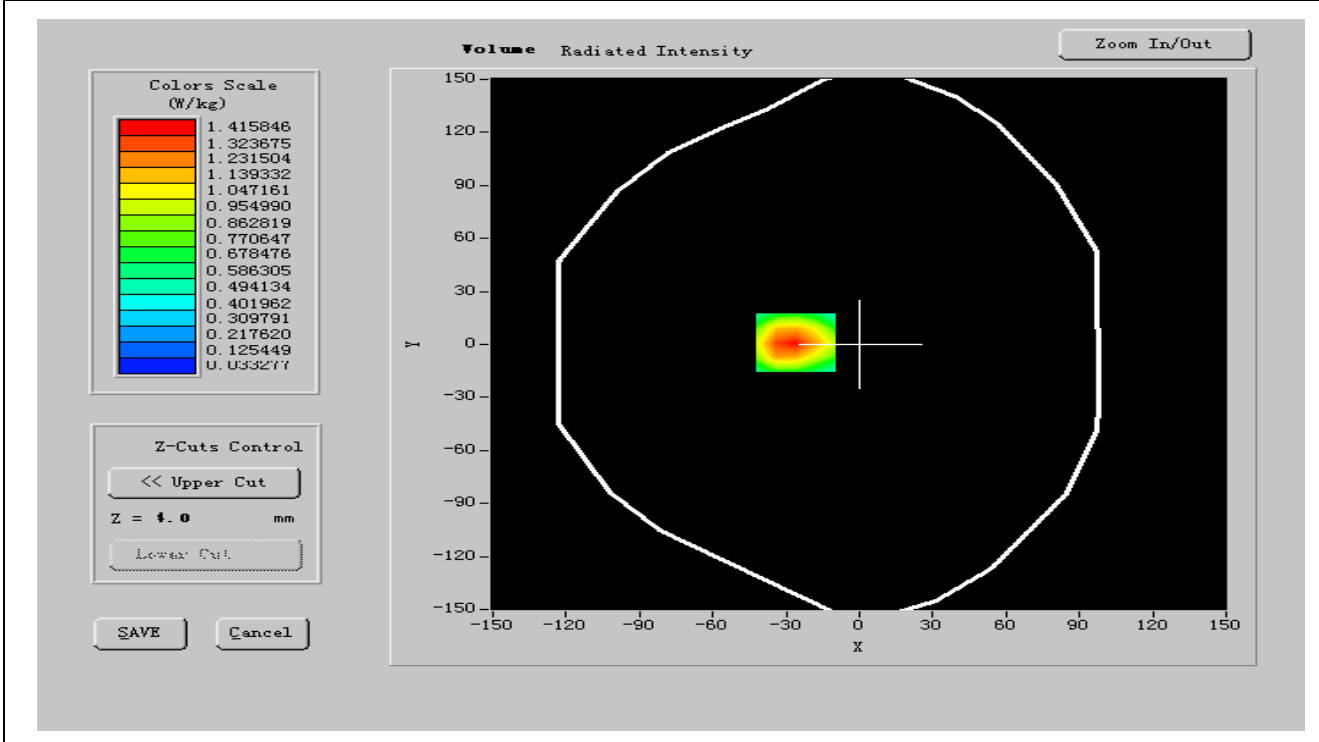
Frequency (MHz)	1850.200000
Relative permittivity (real part)	52.347400
Relative permittivity (imaginary part)	14.450693
Conductivity (S/m)	1.533698
Variation (%)	-0.400000
Ambient Temperature:	21 °C
Liquid Temperature:	20.2 °C
ConvF:	40.42, 41.12, 54.75
Crest factor:	2:1



### SURFACE SAR



### VOLUME SAR







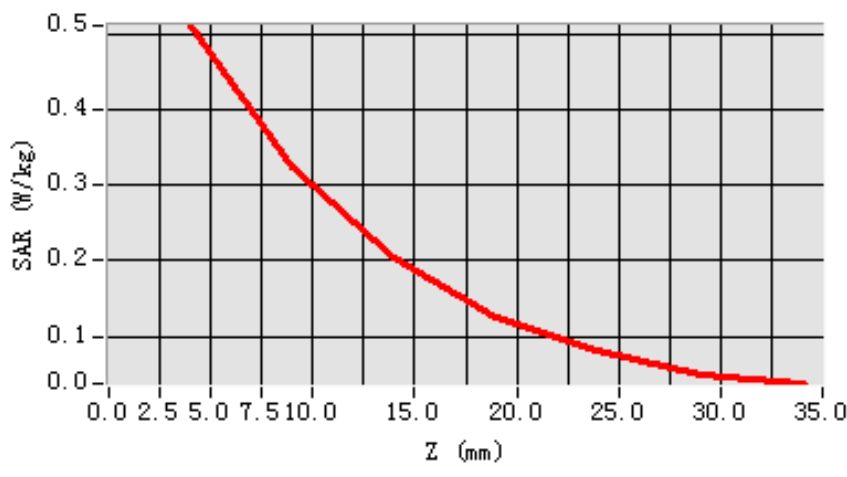
**Maximum location: X=-13.00, Y=-3.00**

SAR 10g (W/Kg)	0.102899
SAR 1g (W/Kg)	0.256321

**Z Axis Scan**

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

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





**MEASUREMENT 20**

**Date of measurement: 02/22/2011**

**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>	GPRS1900
<b>Channels</b>	Middle
<b>Signal</b>	GPRS

**B. Instrumentations.**

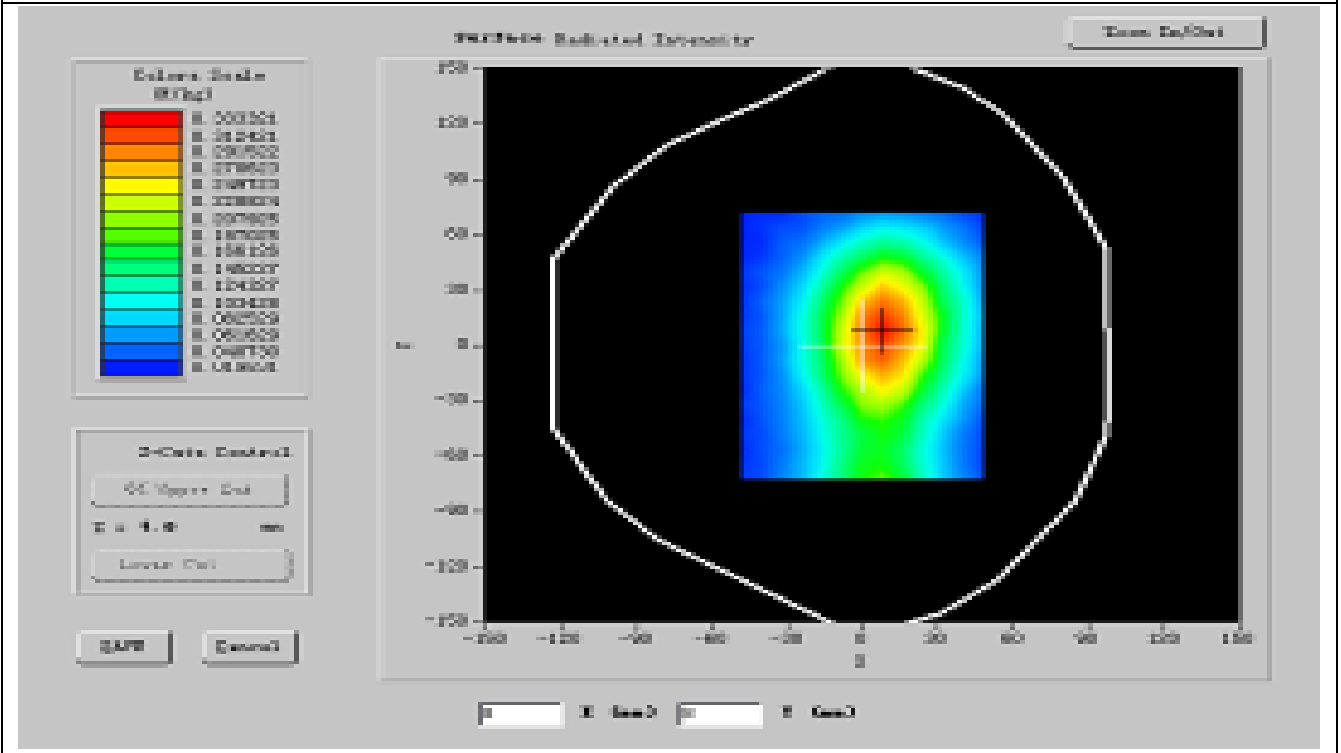
<b>PC</b>	<b>HP (Pentium(R) V3.06GHz, SN:375052-AA1)</b>	<b>Calibration Due: N/A</b>
<b>Wireless Communication Test Set</b>	<b>R&amp;S (CMU200, SN:B23-03291)</b>	<b>Calibration Due: 05/25/2011</b>
<b>Network Analyzer</b>	<b>Agilent(E5071B, MY42301382)</b>	<b>Calibration Due: 03/24/2011</b>
<b>Voltmeter</b>	<b>Keithley (2000, SN:1015843)</b>	<b>Calibration Due: 05/25/2011</b>
<b>Signal Generator</b>	<b>Agilent (E8257C, SN:MY43321570)</b>	<b>Calibration Due: 03/24/2011</b>
<b>Amplifier</b>	<b>Mini-Circuits (ZHL-42, SN:110405)</b>	<b>Calibration Due: 07/29/2011</b>
<b>Power Meter</b>	<b>Agilent (E4416A, SN:QB41292714)</b>	<b>Calibration Due: 03/24/2011</b>
<b>Probe</b>	<b>Antennessa (SN:SN_1109_EP_100)</b>	<b>Calibration Due: 05/04/2011</b>
<b>DIPOLE 1900</b>	<b>Antennessa (DIPG35,SN 48/05)</b>	<b>Calibration Due: 02/09/2012</b>
<b>Phantom</b>	<b>Antennessa (SN:SN41_05_SAM29)</b>	<b>Calibration Due: N/A</b>
<b>Liquid</b>	<b>Antennessa</b>	<b>Calibration Due: N/A</b>
<b>Measurement SW</b>	<b>OPEN SAR V2.1</b>	<b>Calibration Due: N/A</b>

**C. SAR Measurement Results**

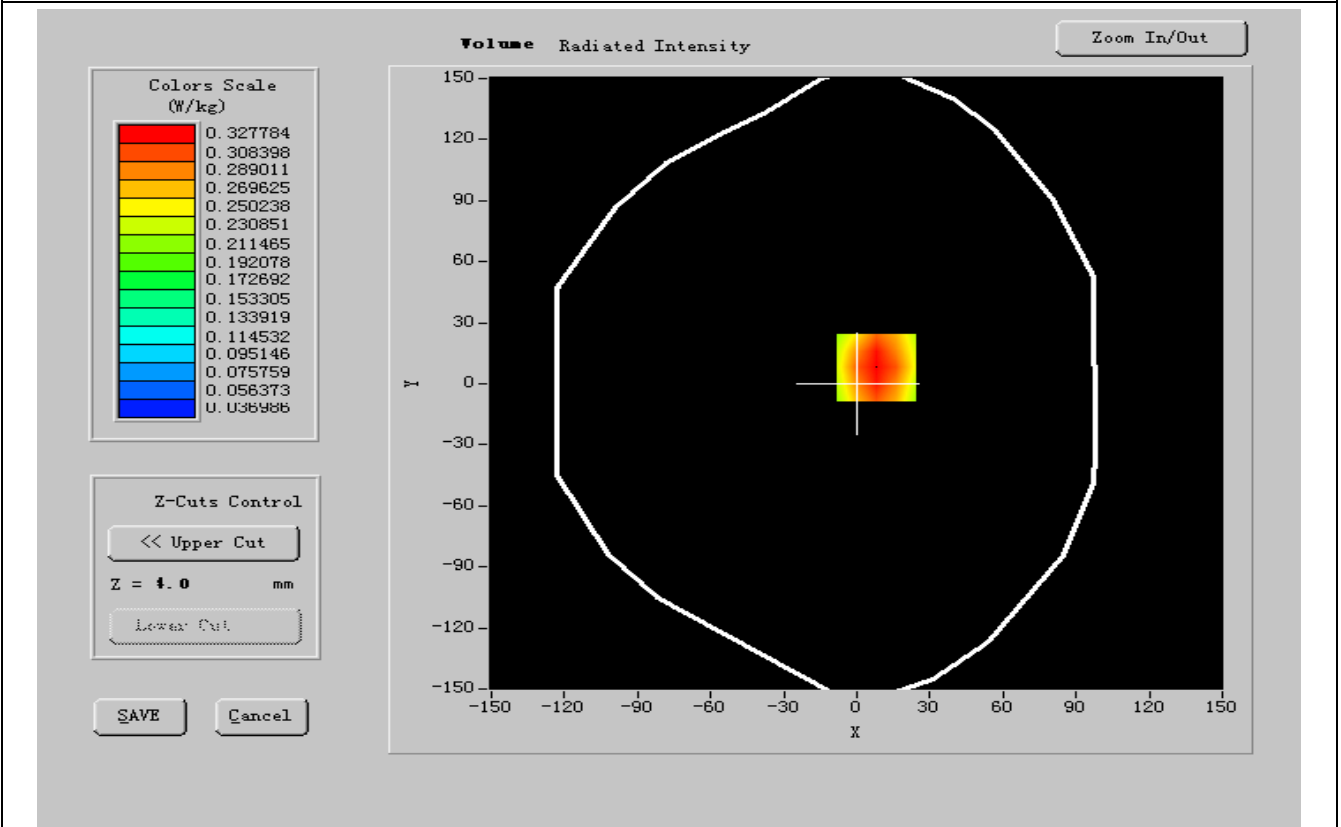
<b>Frequency (MHz)</b>	<b>1880.000000</b>
<b>Relative permittivity (real part)</b>	<b>51.417028</b>
<b>Relative permittivity (imaginary part)</b>	<b>14.293556</b>
<b>Conductivity (S/m)</b>	<b>1.514286</b>
<b>Variation (%)</b>	<b>-1.010000</b>
<b>Ambient Temperature:</b>	<b>21 °C</b>
<b>Liquid Temperature:</b>	<b>20.2 °C</b>
<b>ConvF:</b>	<b>40.42, 41.12, 54.75</b>
<b>Crest factor:</b>	<b>2:1</b>



### SURFACE SAR



### VOLUME SAR





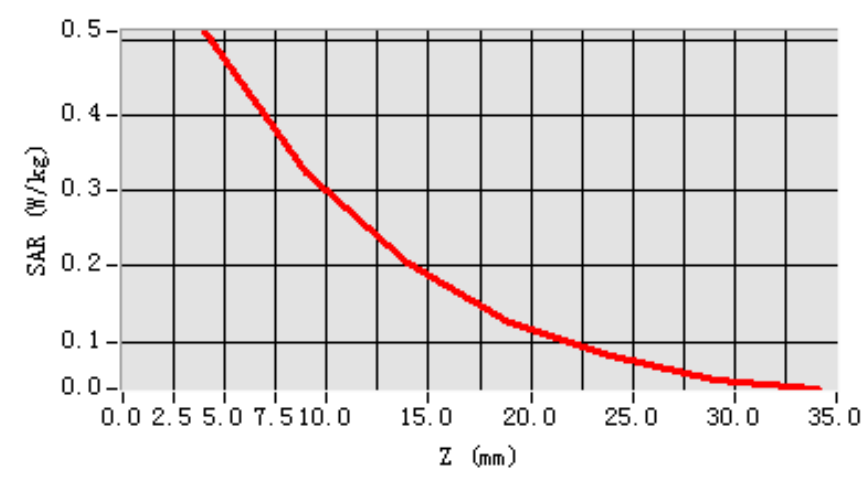
**Maximum location: X=-13.00, Y=-3.00**

SAR 10g (W/Kg)	0.285564
SAR 1g (W/Kg)	0.296265

**Z Axis Scan**

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

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





**MEASUREMENT 21**

Date of measurement: 02/22/2011

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.**

Phantom File	zinf15.txt, Adaptive 2 max
Phantom	Body
Device Position	FrontSide toward phantom
Band	GPRS1900
Channels	High
Signal	GPRS

**B. Instrumentations.**

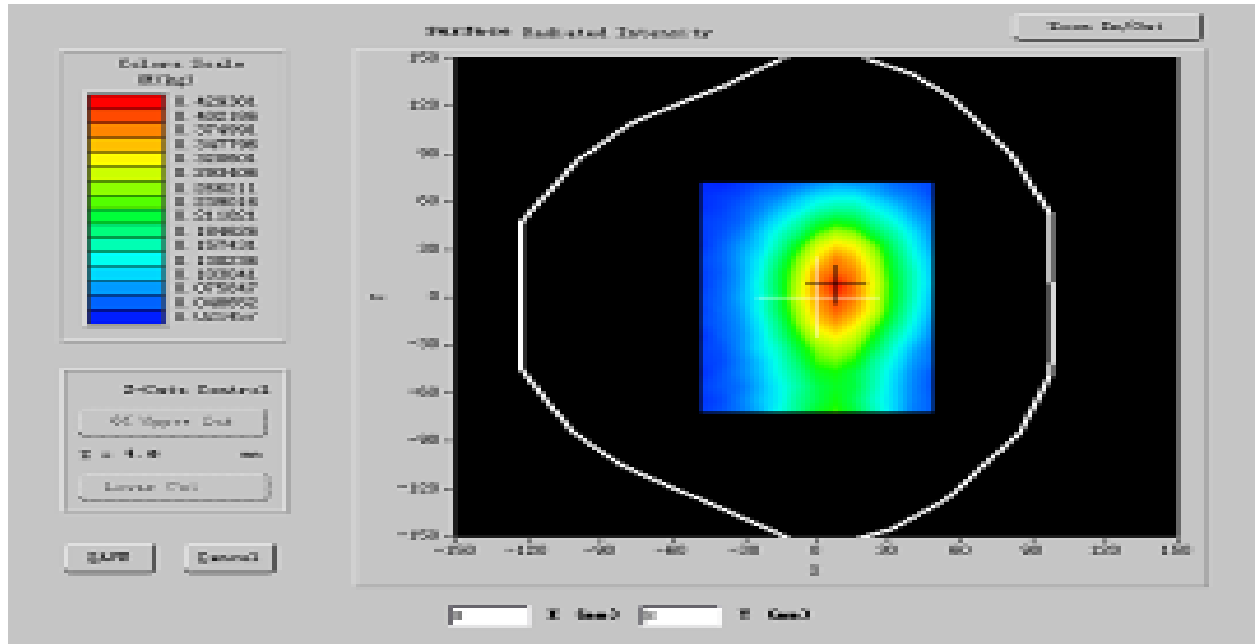
PC	HP (Pentium(R) V3.06GHz, SN:375052-AA1)	Calibration Due: N/A
Wireless Communication Test Set	R&S (CMU200, SN:B23-03291)	Calibration Due: 05/25/2011
Network Analyzer	Agilent(E5071B, MY42301382)	Calibration Due: 03/24/2011
Voltmeter	Keithley (2000, SN:1015843)	Calibration Due: 05/25/2011
Signal Generator	Agilent (E8257C, SN:MY43321570)	Calibration Due: 03/24/2011
Amplifier	Mini-Circuits (ZHL-42, SN:110405)	Calibration Due: 07/29/2011
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibration Due: 03/24/2011
Probe	Antennessa (SN:SN_1109_EP_100)	Calibration Due: 05/04/2011
DIPOLE 1900	Antennessa (DIPG35,SN 48/05)	Calibration Due: 02/09/2012
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibration Due: N/A
Liquid	Antennessa	Calibration Due: N/A
Measurement SW	OPEN SAR V2.1	Calibration Due: N/A

**C. SAR Measurement Results**

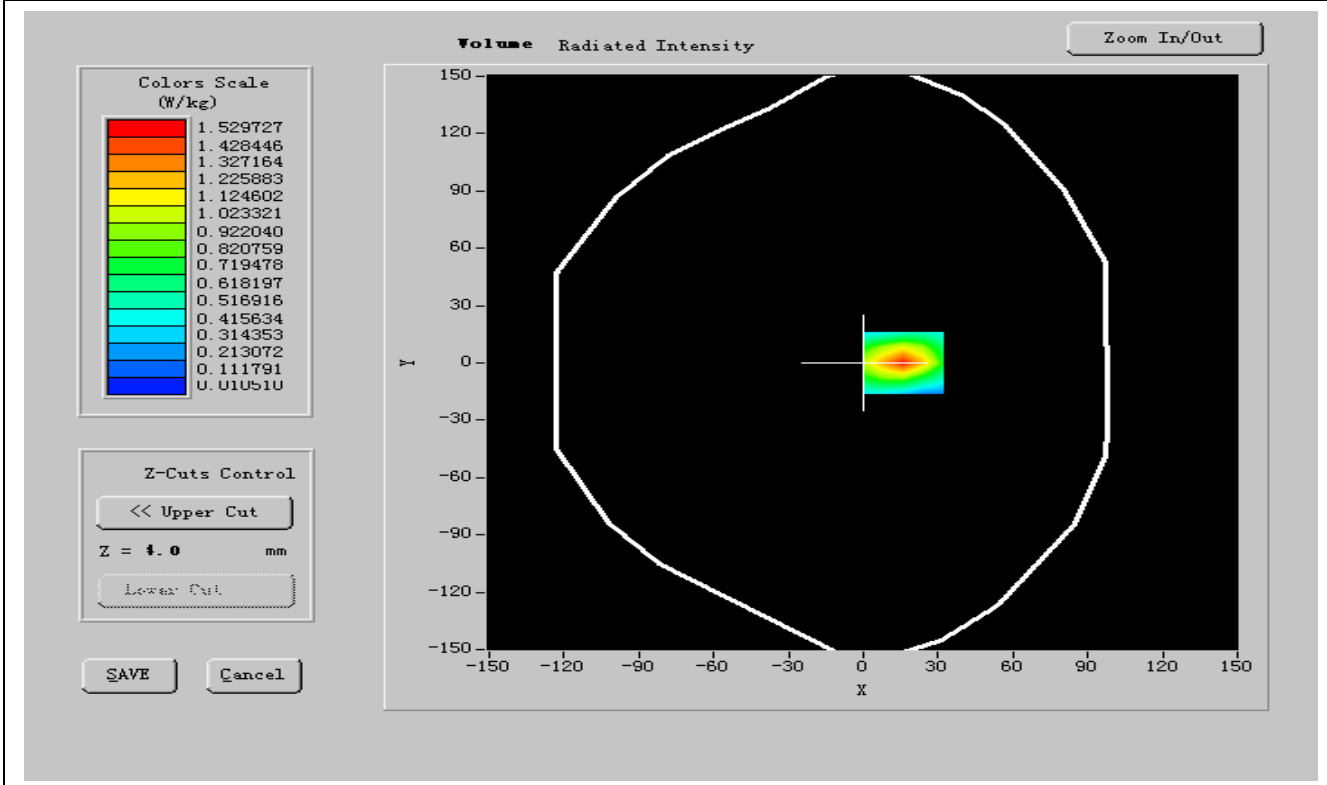
Frequency (MHz)	1909.800000
Relative permittivity (real part)	51.813332
Relative permittivity (imaginary part)	14.319230
Conductivity (S/m)	1.513224
Variation (%)	-0.130000
Ambient Temperature:	21 °C
Liquid Temperature:	20.2 °C
ConvF:	40.42, 41.12, 54.75
Crest factor:	2:1



### SURFACE SAR



### VOLUME SAR





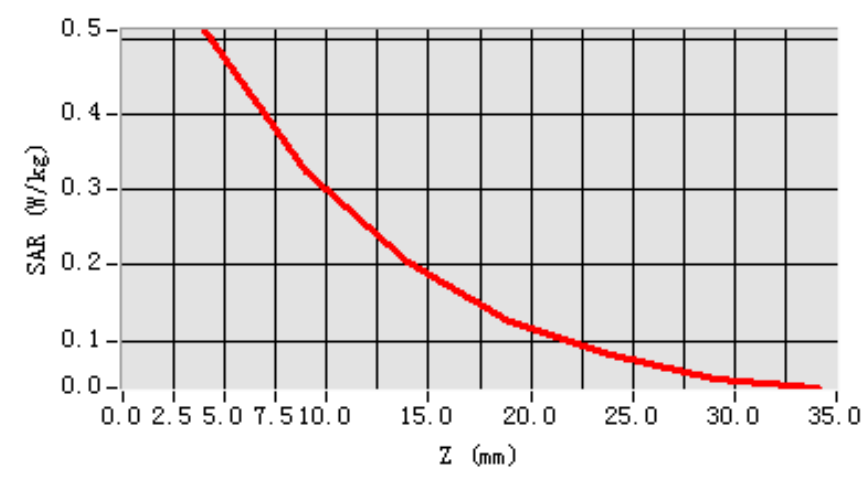
**Maximum location: X=-13.00, Y=-3.00**

SAR 10g (W/Kg)	0.192754
SAR 1g (W/Kg)	0.311246

**Z Axis Scan**

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

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





**MEASUREMENT 22**

**Date of measurement: 02/22/2011**

**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>	GPRS1900
<b>Channels</b>	Low
<b>Signal</b>	GPRS

**B. Instrumentations.**

<b>PC</b>	<b>HP (Pentium(R) V3.06GHz, SN:375052-AA1)</b>	<b>Calibration Due: N/A</b>
<b>Wireless Communication Test Set</b>	<b>R&amp;S (CMU200, SN:B23-03291)</b>	<b>Calibration Due: 05/25/2011</b>
<b>Network Analyzer</b>	<b>Agilent(E5071B, MY42301382)</b>	<b>Calibration Due: 03/24/2011</b>
<b>Voltmeter</b>	<b>Keithley (2000, SN:1015843)</b>	<b>Calibration Due: 05/25/2011</b>
<b>Signal Generator</b>	<b>Agilent (E8257C, SN:MY43321570)</b>	<b>Calibration Due: 03/24/2011</b>
<b>Amplifier</b>	<b>Mini-Circuits (ZHL-42, SN:110405)</b>	<b>Calibration Due: 07/29/2011</b>
<b>Power Meter</b>	<b>Agilent (E4416A, SN:QB41292714)</b>	<b>Calibration Due: 03/24/2011</b>
<b>Probe</b>	<b>Antennessa (SN:SN_1109_EP_100)</b>	<b>Calibration Due: 05/04/2011</b>
<b>DIPOLE 1900</b>	<b>Antennessa (DIPG35,SN 48/05)</b>	<b>Calibration Due: 02/09/2012</b>
<b>Phantom</b>	<b>Antennessa (SN:SN41_05_SAM29)</b>	<b>Calibration Due: N/A</b>
<b>Liquid</b>	<b>Antennessa</b>	<b>Calibration Due: N/A</b>
<b>Measurement SW</b>	<b>OPEN SAR V2.1</b>	<b>Calibration Due: N/A</b>

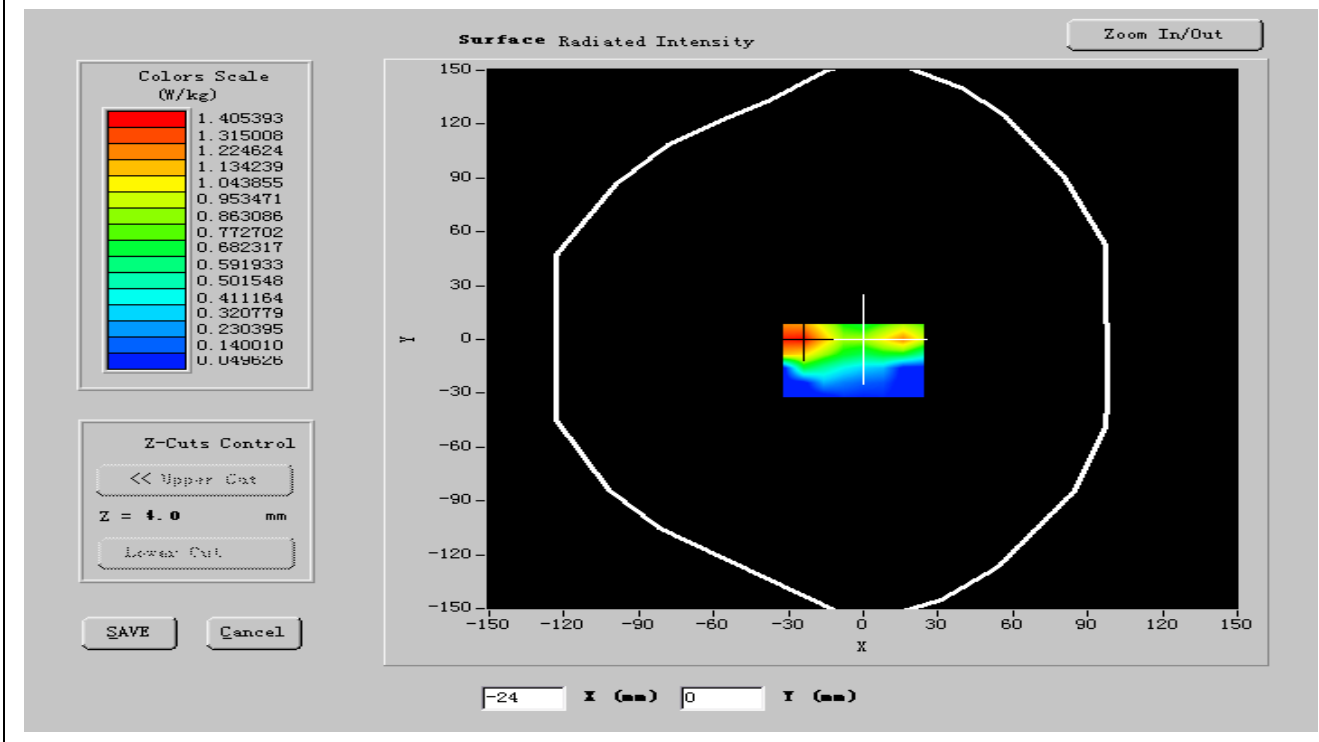
**C. SAR Measurement Results**

<b>Frequency (MHz)</b>	<b>1850.200000</b>
<b>Relative permittivity (real part)</b>	<b>52.347400</b>
<b>Relative permittivity (imaginary part)</b>	<b>14.450693</b>
<b>Conductivity (S/m)</b>	<b>1.533698</b>
<b>Variation (%)</b>	<b>-0.400000</b>
<b>Ambient Temperature:</b>	<b>21 °C</b>
<b>Liquid Temperature:</b>	<b>20.2 °C</b>
<b>ConvF:</b>	<b>40.42, 41.12, 54.75</b>
<b>Crest factor:</b>	<b>2:1</b>

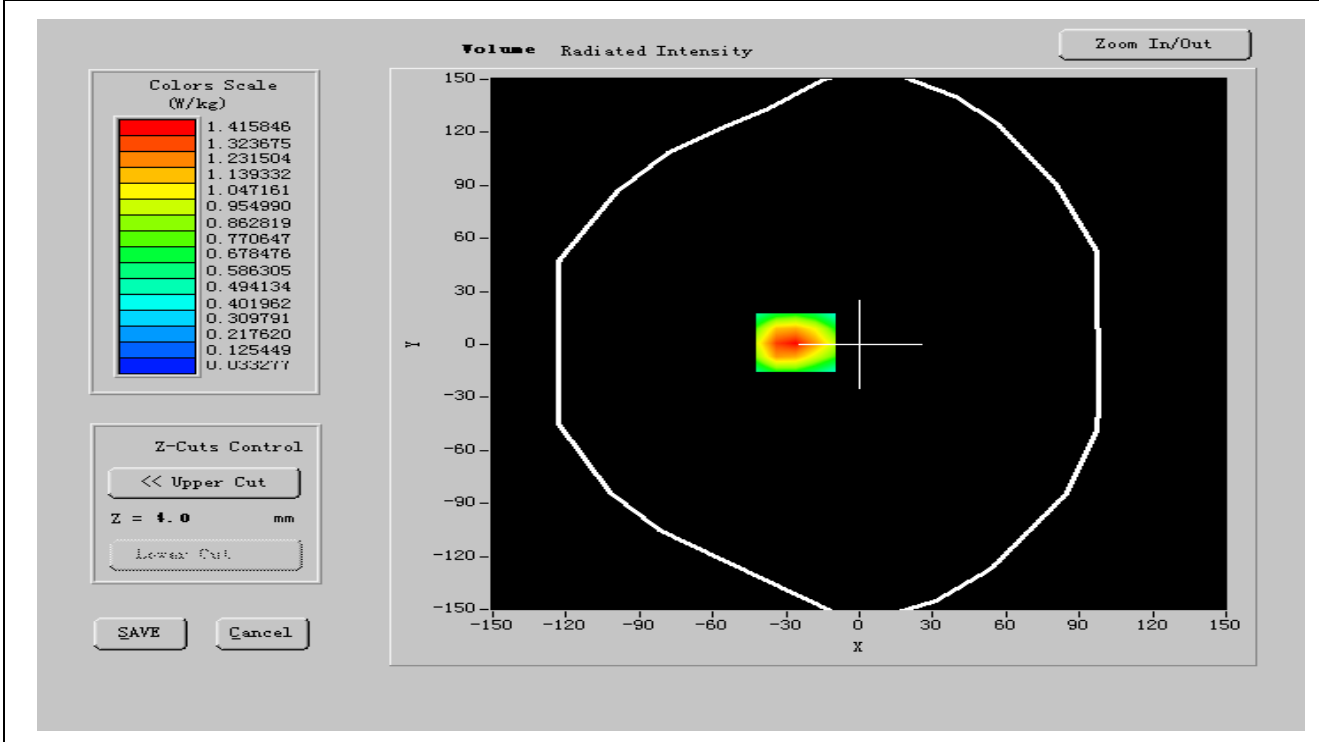




### SURFACE SAR



### VOLUME SAR





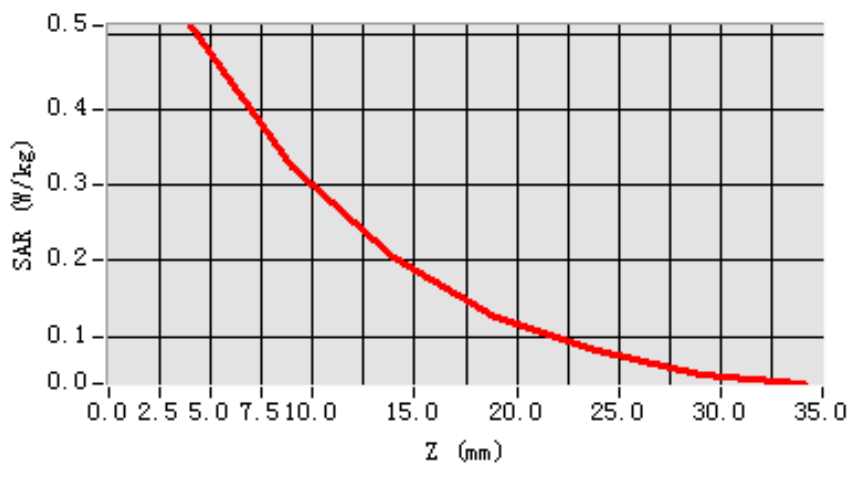
**Maximum location: X=-13.00, Y=-3.00**

SAR 10g (W/Kg)	0.144114
SAR 1g (W/Kg)	0.276505

**Z Axis Scan**

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

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





**MEASUREMENT 23**

**Date of measurement: 02/22/2011**

**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>	GPRS1900
<b>Channels</b>	Middle
<b>Signal</b>	GPRS

**B. Instrumentations.**

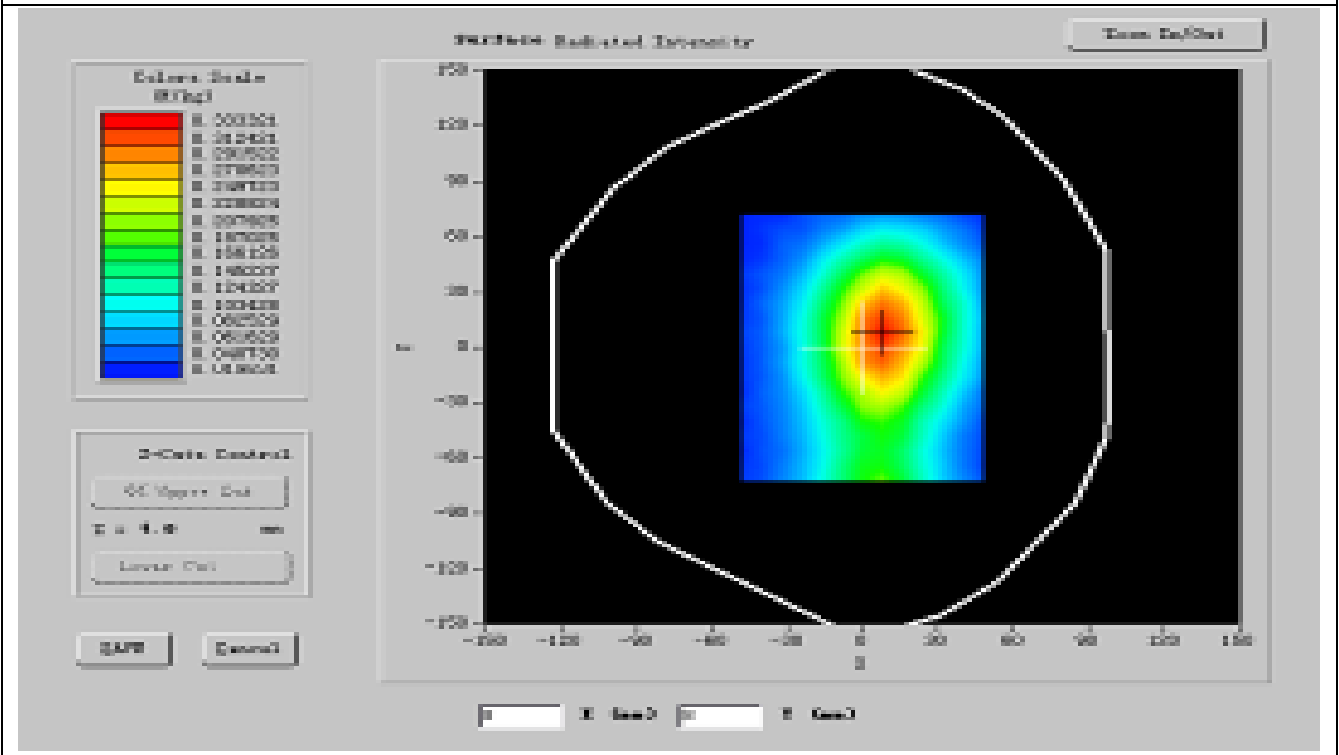
<b>PC</b>	<b>HP (Pentium(R) V3.06GHz, SN:375052-AA1)</b>	<b>Calibration Due: N/A</b>
<b>Wireless Communication Test Set</b>	<b>R&amp;S (CMU200, SN:B23-03291)</b>	<b>Calibration Due: 05/25/2011</b>
<b>Network Analyzer</b>	<b>Agilent(E5071B, MY42301382)</b>	<b>Calibration Due: 03/24/2011</b>
<b>Voltmeter</b>	<b>Keithley (2000, SN:1015843)</b>	<b>Calibration Due: 05/25/2011</b>
<b>Signal Generator</b>	<b>Agilent (E8257C, SN:MY43321570)</b>	<b>Calibration Due: 03/24/2011</b>
<b>Amplifier</b>	<b>Mini-Circuits (ZHL-42, SN:110405)</b>	<b>Calibration Due: 07/29/2011</b>
<b>Power Meter</b>	<b>Agilent (E4416A, SN:QB41292714)</b>	<b>Calibration Due: 03/24/2011</b>
<b>Probe</b>	<b>Antennessa (SN:SN_1109_EP_100)</b>	<b>Calibration Due: 05/04/2011</b>
<b>DIPOLE 1900</b>	<b>Antennessa (DIPG35,SN 48/05)</b>	<b>Calibration Due: 02/09/2012</b>
<b>Phantom</b>	<b>Antennessa (SN:SN41_05_SAM29)</b>	<b>Calibration Due: N/A</b>
<b>Liquid</b>	<b>Antennessa</b>	<b>Calibration Due: N/A</b>
<b>Measurement SW</b>	<b>OPEN SAR V2.1</b>	<b>Calibration Due: N/A</b>

**C. SAR Measurement Results**

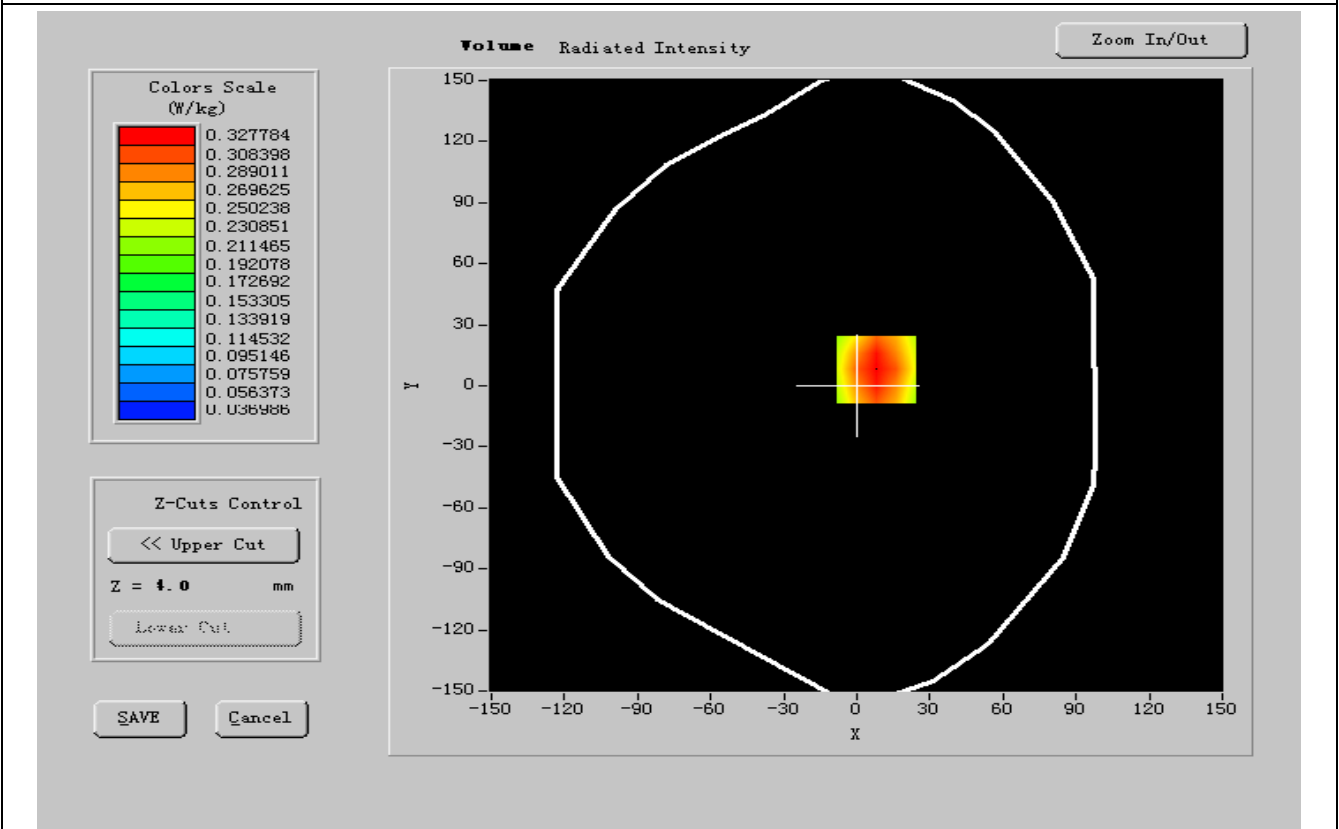
<b>Frequency (MHz)</b>	<b>1880.000000</b>
<b>Relative permittivity (real part)</b>	<b>51.417028</b>
<b>Relative permittivity (imaginary part)</b>	<b>14.293556</b>
<b>Conductivity (S/m)</b>	<b>1.514286</b>
<b>Variation (%)</b>	<b>-1.010000</b>
<b>Ambient Temperature:</b>	<b>21 °C</b>
<b>Liquid Temperature:</b>	<b>20.2°C</b>
<b>ConvF:</b>	<b>40.42, 41.12, 54.75</b>
<b>Crest factor:</b>	<b>2:1</b>



### SURFACE SAR



### VOLUME SAR





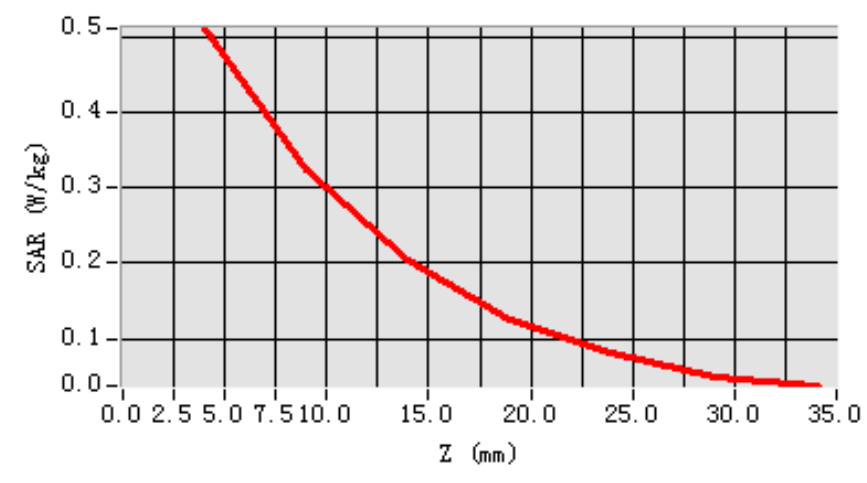
**Maximum location: X=-13.00, Y=-3.00**

SAR 10g (W/Kg)	0.178016
SAR 1g (W/Kg)	0.322305

**Z Axis Scan**

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

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





**MEASUREMENT 24**

**Date of measurement: 02/22/2011**

**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>	GPRS1900
<b>Channels</b>	High
<b>Signal</b>	GPRS

**B. Instrumentations.**

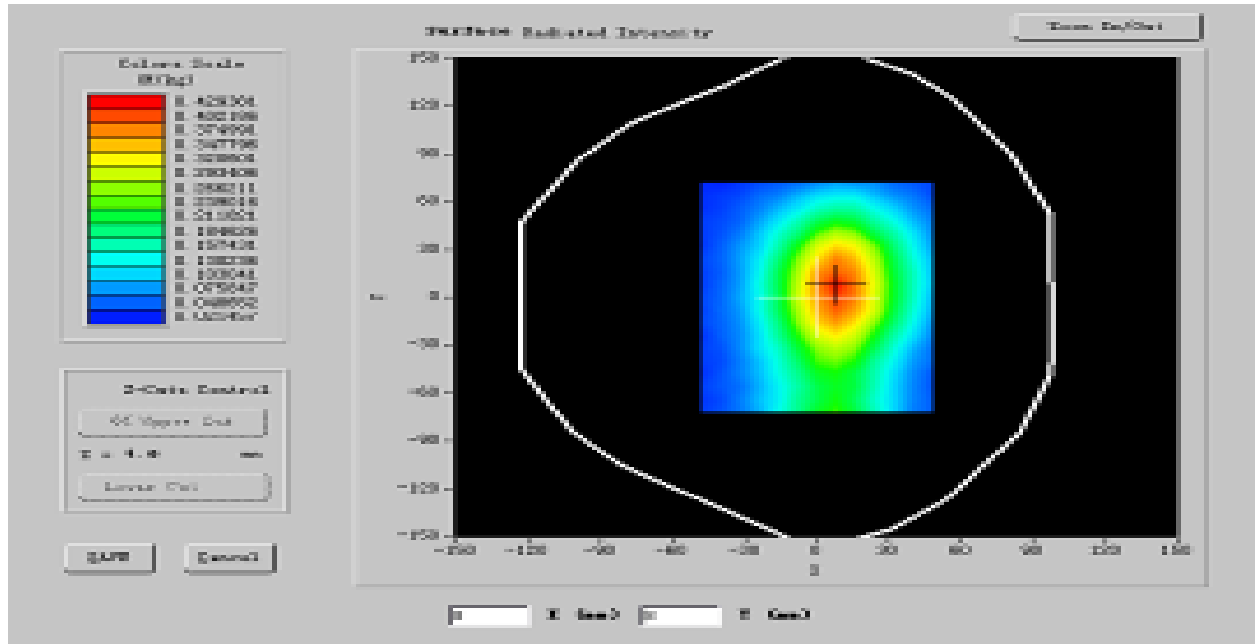
<b>PC</b>	<b>HP (Pentium(R) V3.06GHz, SN:375052-AA1)</b>	<b>Calibration Due: N/A</b>
<b>Wireless Communication Test Set</b>	<b>R&amp;S (CMU200, SN:B23-03291)</b>	<b>Calibration Due: 05/25/2011</b>
<b>Network Analyzer</b>	<b>Agilent(E5071B, MY42301382)</b>	<b>Calibration Due: 03/24/2011</b>
<b>Voltmeter</b>	<b>Keithley (2000, SN:1015843)</b>	<b>Calibration Due: 05/25/2011</b>
<b>Signal Generator</b>	<b>Agilent (E8257C, SN:MY43321570)</b>	<b>Calibration Due: 03/24/2011</b>
<b>Amplifier</b>	<b>Mini-Circuits (ZHL-42, SN:110405)</b>	<b>Calibration Due: 07/29/2011</b>
<b>Power Meter</b>	<b>Agilent (E4416A, SN:QB41292714)</b>	<b>Calibration Due: 03/24/2011</b>
<b>Probe</b>	<b>Antennessa (SN:SN_1109_EP_100)</b>	<b>Calibration Due: 05/04/2011</b>
<b>DIPOLE 1900</b>	<b>Antennessa (DIPG35,SN 48/05)</b>	<b>Calibration Due: 02/09/2012</b>
<b>Phantom</b>	<b>Antennessa (SN:SN41_05_SAM29)</b>	<b>Calibration Due: N/A</b>
<b>Liquid</b>	<b>Antennessa</b>	<b>Calibration Due: N/A</b>
<b>Measurement SW</b>	<b>OPEN SAR V2.1</b>	<b>Calibration Due: N/A</b>

**C. SAR Measurement Results**

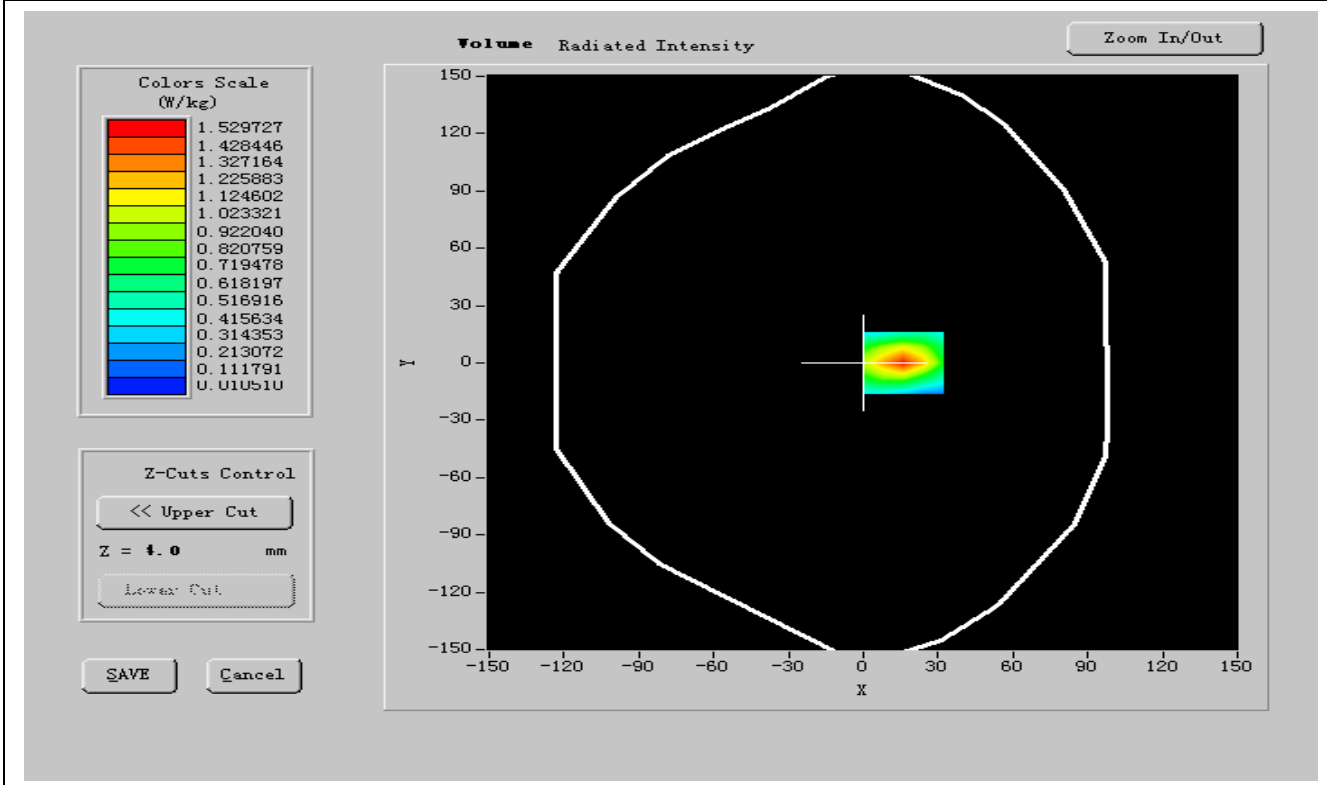
<b>Frequency (MHz)</b>	<b>1909.800000</b>
<b>Relative permittivity (real part)</b>	<b>51.813332</b>
<b>Relative permittivity (imaginary part)</b>	<b>14.319230</b>
<b>Conductivity (S/m)</b>	<b>1.513224</b>
<b>Variation (%)</b>	<b>-0.130000</b>
<b>Ambient Temperature:</b>	<b>21 °C</b>
<b>Liquid Temperature:</b>	<b>20.2 °C</b>
<b>ConvF:</b>	<b>40.42, 41.12, 54.75</b>
<b>Crest factor:</b>	<b>2:1</b>



### SURFACE SAR



### VOLUME SAR





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

SAR 10g (W/Kg)	0.143279
SAR 1g (W/Kg)	0.334526

**Z Axis Scan**

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

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

