

**System Performance Check Data (850MHz Head)****Date of measurement: 02/20/2011****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>	<b>surf_sam_plan.txt, Adaptive 2 max</b>
<b>Phantom</b>	<b>Validation plane</b>
<b>Device Position</b>	<b>Body</b>
<b>Band</b>	<b>GSM850</b>
<b>Channels</b>	<b>Middle</b>
<b>Signal</b>	<b>CW</b>

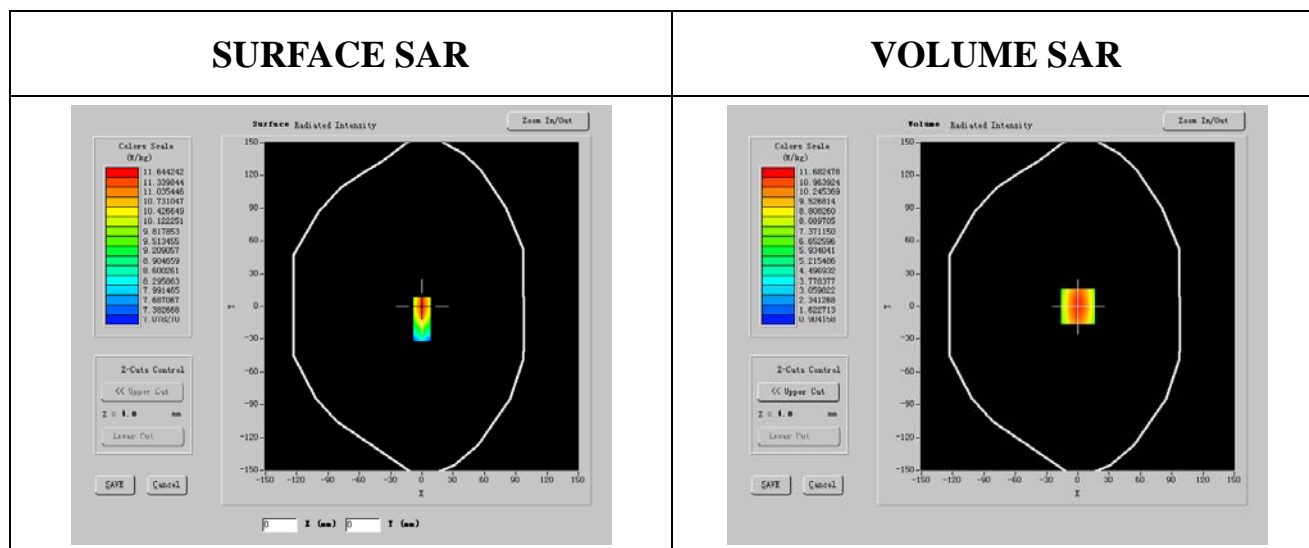
**B. Instrumentations.**

<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: 03/24/2011</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 835</b>	<b>Antennessa (DIPI32,SN 48/05)</b>	<b>Calibration Due: 02/09/2012</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

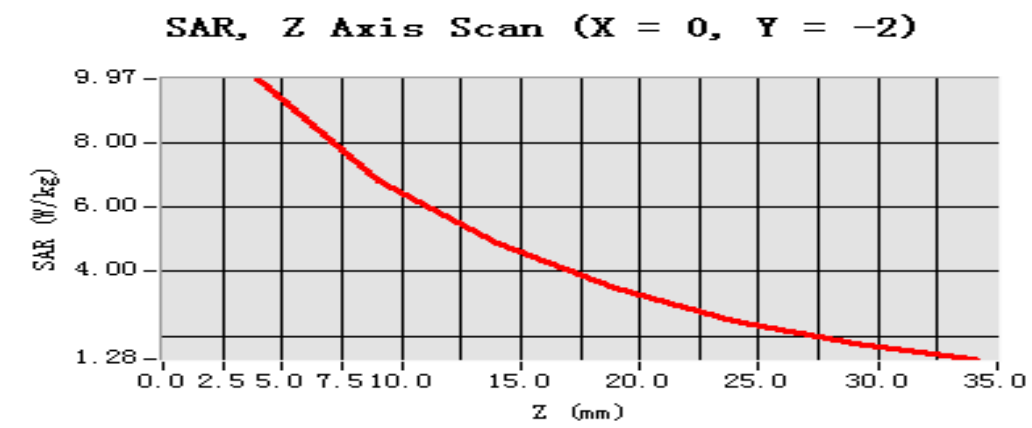
Frequency (MHz)	835.000024
Relative permittivity (real part)	41.417999
Relative permittivity (imaginary part)	20.020350
Conductivity (S/m)	0.930279
Variation (%)	-0.470000
Ambient Temperature:	21 °C
Liquid Temperature:	20 °C
ConvF:	20.66, 20.51, 28.36
Crest factor:	1:1



Maximum location: X=0.00, Y=-5.00

SAR 10g (W/Kg)	6.377661
SAR 1g (W/Kg)	9.535156

### Z Axis Scan



**System Performance Check Data (850MHz Body)****Date of measurement: 02/20/2011****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>	<b>surf_sam_plan.txt, Adaptive 2 max</b>
<b>Phantom</b>	<b>Validation plane</b>
<b>Device Position</b>	<b>Body</b>
<b>Band</b>	<b>GSM850</b>
<b>Channels</b>	<b>Middle</b>
<b>Signal</b>	<b>CW</b>

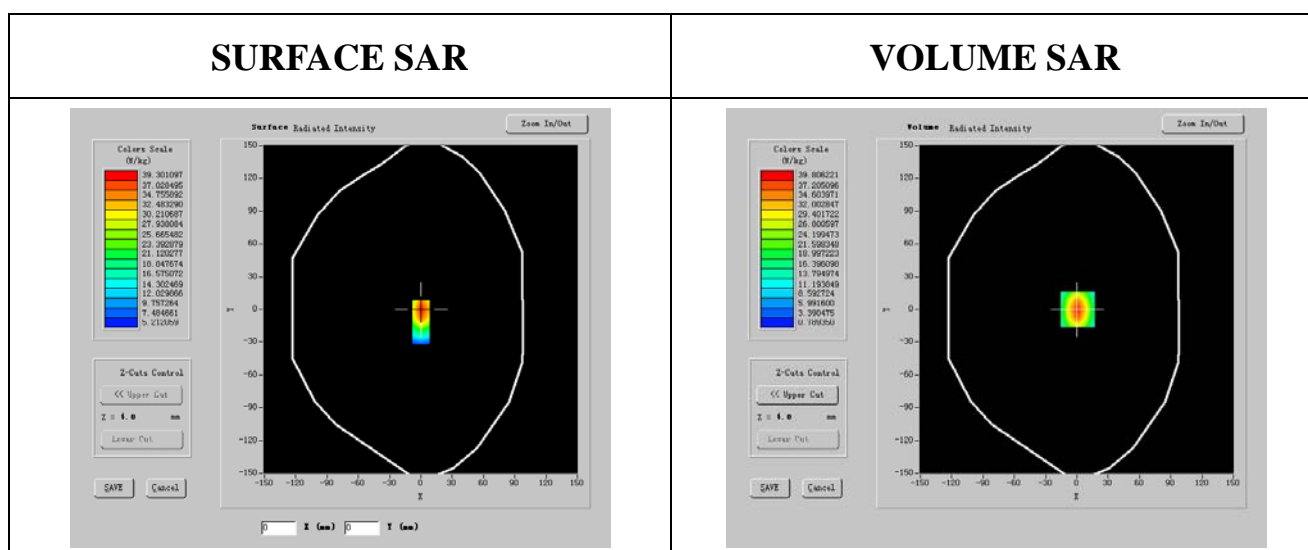
**B. Instrumentations.**

<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: 03/24/2011</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 835</b>	<b>Antennessa (DIPI32,SN 48/05)</b>	<b>Calibration Due: 02/09/2012</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

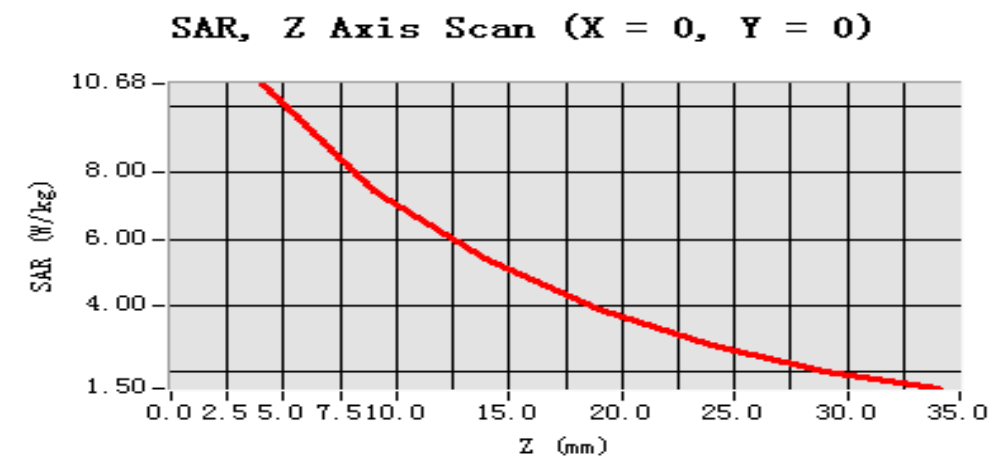
Frequency (MHz)	835.000024
Relative permittivity (real part)	57.501999
Relative permittivity (imaginary part)	21.866249
Conductivity (S/m)	0.992052
Variation (%)	-0.740000
Ambient Temperature:	21 °C
Liquid Temperature:	20 °C
ConvF:	20.00, 19.88, 27.77
Crest factor:	1:1



Maximum location: X=0.00, Y=-5.00

SAR 10g (W/Kg)	6.853908
SAR 1g (W/Kg)	10.170830

### Z Axis Scan



**System Performance Check Data (1900MHz Head)****Date of measurement: 02/20/2011****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>	<b>surf_sam_plan.txt, Adaptive 2 max</b>
<b>Phantom</b>	<b>Validation plane</b>
<b>Device Position</b>	<b>Body</b>
<b>Band</b>	<b>GSM1900</b>
<b>Channels</b>	<b>Middle</b>
<b>Signal</b>	<b>CW</b>

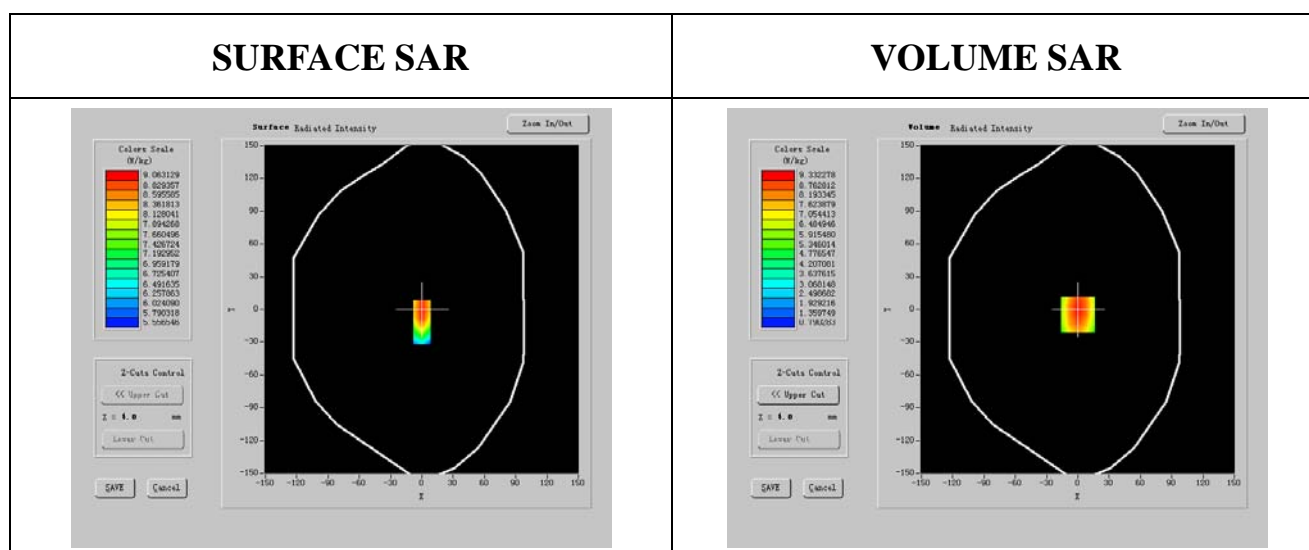
**B. Instrumentations.**

<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: 03/24/2011</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 (DIPI36, SN 48/05)</b>	<b>Calibration Due: 02/09/2012</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

Frequency (MHz)	1950.000000
Relative permittivity (real part)	40.306999
Relative permittivity (imaginary part)	13.506150
Conductivity (S/m)	1.410642
Variation (%)	-0.460000
Ambient Temperature	21 °C
Liquid Temperature	20 °C
ConvF	41.91, 43.15, 56.44
Crest factor	1:1

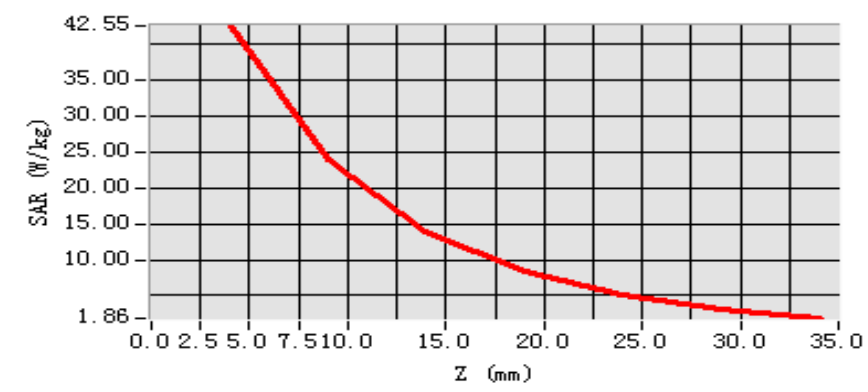


Maximum location: X=0.00, Y=-5.00

SAR 10g (W/Kg)	21.123966
SAR 1g (W/Kg)	39.374130

### Z Axis Scan

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



**System Performance Check Data (1900MHz Body)****Date of measurement: 02/20/2011****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>	<b>surf_sam_plan.txt, Adaptive 2 max</b>
<b>Phantom</b>	<b>Validation plane</b>
<b>Device Position</b>	<b>Body</b>
<b>Band</b>	<b>GSM1900</b>
<b>Channels</b>	<b>Middle</b>
<b>Signal</b>	<b>CW</b>

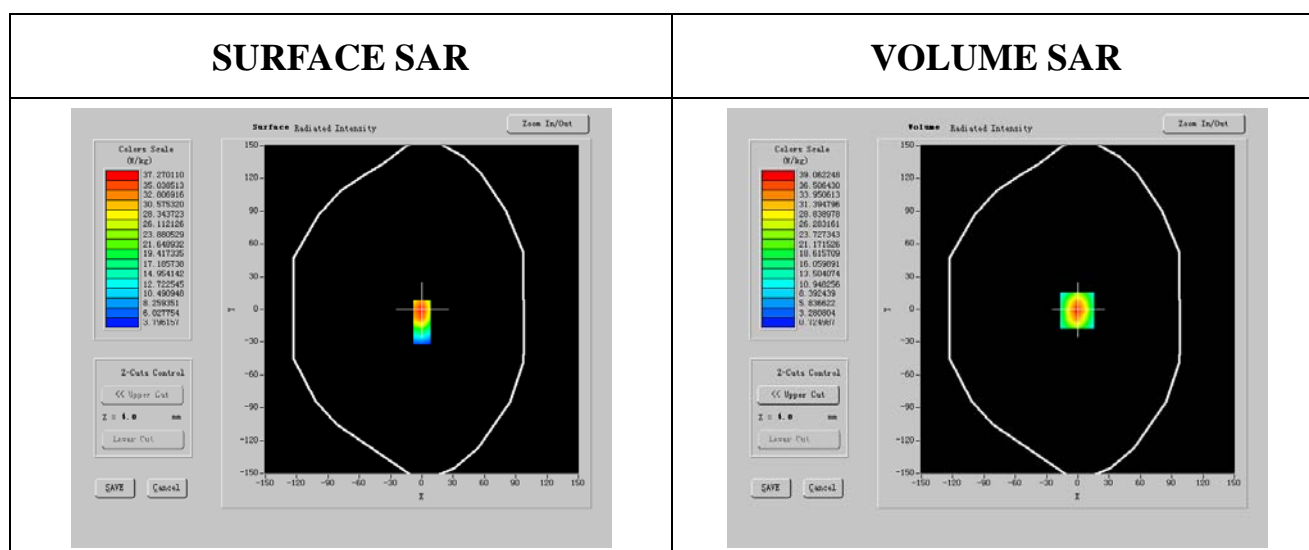
**B. Instrumentations.**

<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: 03/24/2011</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 (DIPI36, SN 48/05)</b>	<b>Calibration Due: 02/09/2012</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

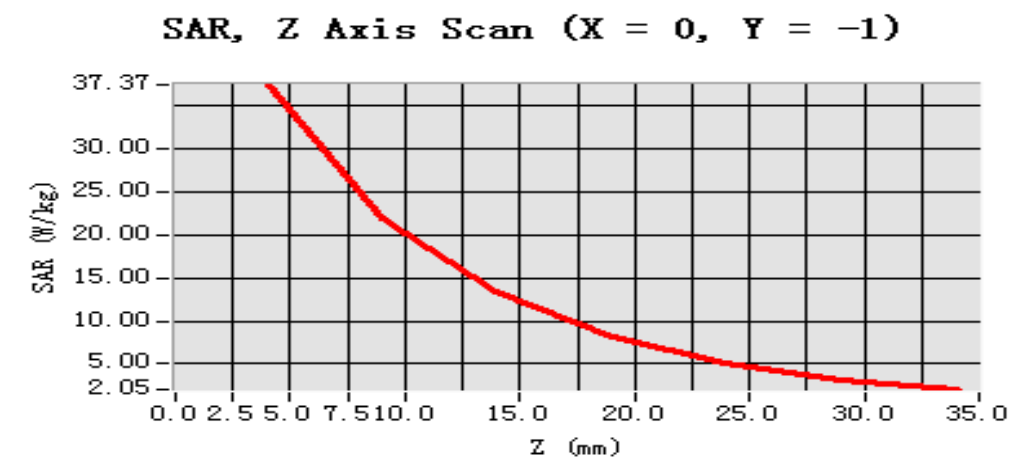
Frequency (MHz)	1950.000000
Relative permittivity (real part)	52.143660
Relative permittivity (imaginary part)	13.691050
Conductivity (S/m)	1.502160
Variation (%)	-0.450000
Ambient Temperature	21 °C
Liquid Temperature	20 °C
ConvF	41.01, 42.41, 55.65
Crest factor	1:1



Maximum location: X=0.00, Y=-1.00

SAR 10g (W/Kg)	20.234159
SAR 1g (W/Kg)	38.413765

### Z Axis Scan





**System Performance Check Data (2450MHz Head)****Date of measurement: 02/20/2011****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>	<b>surf_sam_plan.txt, Adaptive 2 max</b>
<b>Phantom</b>	<b>Validation plane</b>
<b>Device Position</b>	<b>Body</b>
<b>Band</b>	<b>CUSTOM (wireless)</b>
<b>Channels</b>	<b>Middle</b>
<b>Signal</b>	<b>CW</b>

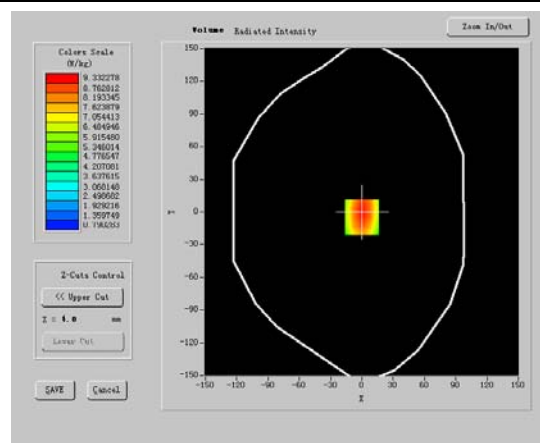
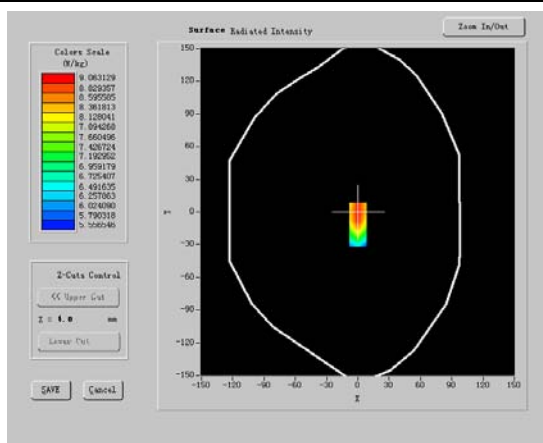
**B. Instrumentations.**

<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: 03/24/2011</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 2450</b>	<b>Antennessa (DIPI36, 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

Frequency (MHz)	2450.000000
Relative permittivity (real part)	40.082141
Relative permittivity (imaginary part)	13.352477
Conductivity (S/m)	1.842102
Variation (%)	-0.980000
Ambient Temperature	21 °C
Liquid Temperature	20 °C
ConvF	41.91, 43.15, 56.44
Crest factor	1:1
SURFACE SAR	VOLUME SAR

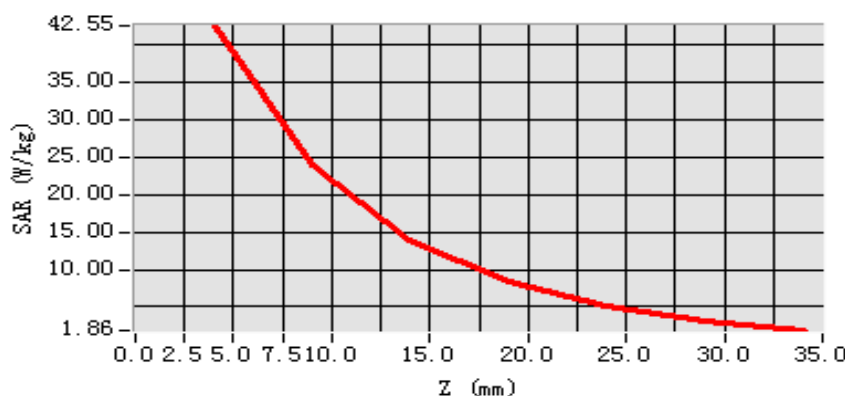


Maximum location: X=0.00, Y=-5.00

SAR 10g (W/Kg)	21.123966
SAR 1g (W/Kg)	39.374130

### Z Axis Scan

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



**System Performance Check Data (2450MHz Body)****Date of measurement: 02/20/2011****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>	<b>surf_sam_plan.txt, Adaptive 2 max</b>
<b>Phantom</b>	<b>Validation plane</b>
<b>Device Position</b>	<b>Body</b>
<b>Band</b>	<b>CUSTOM (wireless)</b>
<b>Channels</b>	<b>Middle</b>
<b>Signal</b>	<b>CW</b>

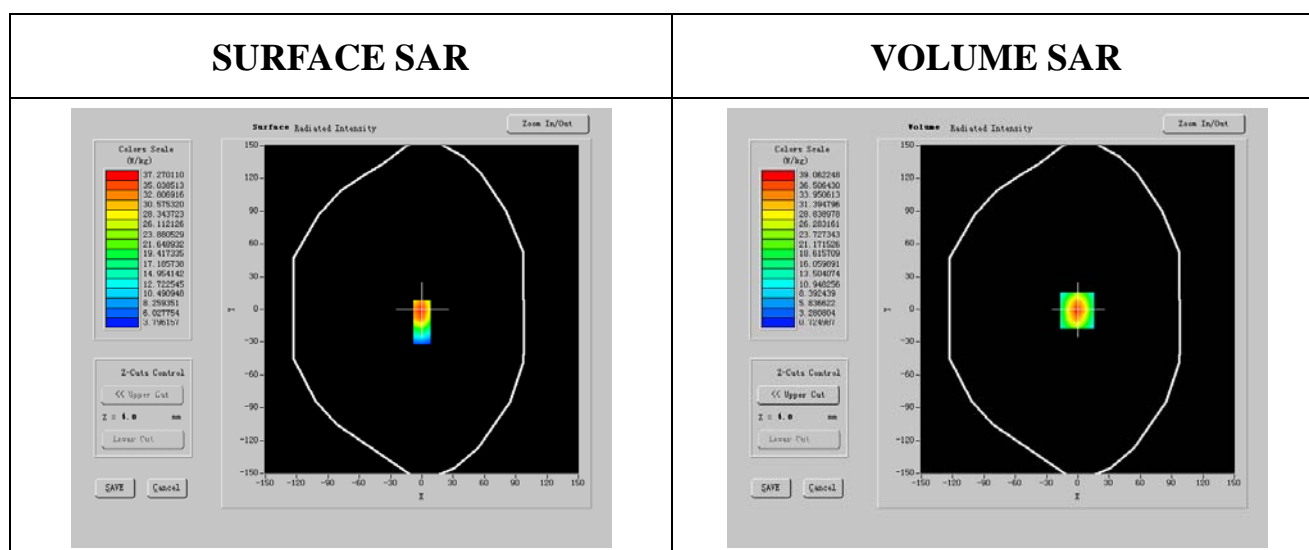
**B. Instrumentations.**

<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: 03/24/2011</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 2450</b>	<b>Antennessa (DIPI36, 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

Frequency (MHz)	2450.000000
Relative permittivity (real part)	52.012547
Relative permittivity (imaginary part)	13.367488
Conductivity (S/m)	1.942156
Variation (%)	-0.900000
Ambient Temperature	21 °C
Liquid Temperature	20 °C
ConvF	41.01, 42.41, 55.65
Crest factor	1:1



Maximum location: X=0.00, Y=-1.00

SAR 10g (W/Kg)	20.234159
SAR 1g (W/Kg)	38.413765

### Z Axis Scan

