

|  |                       |
|--|-----------------------|
|  | <b>SAR Test Plots</b> |
|  | <b>Project name :</b> |
|  | <b>KS100512B01</b>    |

#### **EUT DESCRIPTION**

Product name: Mobile Phone

Model No.: K520, K520+, Mini K520, K520i, S218

Trade name: Baoxing

Tested date: May 13, 2010

Applicant: **ShenZhen Jin Fei Sheng Technology Co., Ltd.**

Room 5103, 51F, Seg Plaza, Shennan Mid-road, Futian District, Shenzhen, China.

Air Temperature: 21 °C Liquefied Temperature: 20 °C

Crest Factor: CW: 1

GSM: 8

GPRS 12: 2

**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

**Probe:** Antennessa (SN: SN\_1109\_EP\_100)

**Compliance Certification Services (Kunshan) Inc.**  
**No.10, Weiye Rd., Innovation Park, Eco & Tec. Development Part,**  
**Kunshan City, Jiangsu Province, PRC.**  
**TEL: 86-512-57355888**  
**FAX: 86-512-57370818**  
<http://www.ccsrf.com>

# EUT Slide on GSM850

## I. RESULTS

| <u>TYPE</u>       | <u>BAND</u>   | <u>PARAMETERS</u>   |
|-------------------|---------------|---|
| <u>Noise</u>      | --            | --  |
| <u>Validation</u> | --            | --  |
| <u>Phone</u>      | <u>GSM850</u> | <u>Measurement 1:</u> Right Head with Cheek device position on Low Channel in GSM mode<br><u>Measurement 2:</u> Right Head with Cheek device position on Middle Channel in GSM mode<br><u>Measurement 3:</u> Right Head with Cheek device position on High Channel in GSM mode<br><u>Measurement 4:</u> Right Head with Tilt device position on Low Channel in GSM mode<br><u>Measurement 5:</u> Right Head with Tilt device position on Middle Channel in GSM mode<br><u>Measurement 6:</u> Right Head with Tilt device position on High Channel in GSM mode<br><u>Measurement 7:</u> Left Head with Cheek device position on Low Channel in GSM mode<br><u>Measurement 8:</u> Left Head with Cheek device position on Middle Channel in GSM mode<br><u>Measurement 9:</u> Left Head with Cheek device position on High Channel in GSM mode<br><u>Measurement 10:</u> Left Head with Tilt device position on Low Channel in GSM mode<br><u>Measurement 11:</u> Left Head with Tilt device position on Middle Channel in GSM mode<br><u>Measurement 12:</u> Left Head with Tilt device position on High Channel in GSM mode |

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## MEASUREMENT 1

Type: Phone measurement (Complete)

Date of measurement: 13/5/2010

Measurement duration: 19 minutes 56 seconds

Mobile Phone IMEI number: --

### **A. Experimental conditions.**

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

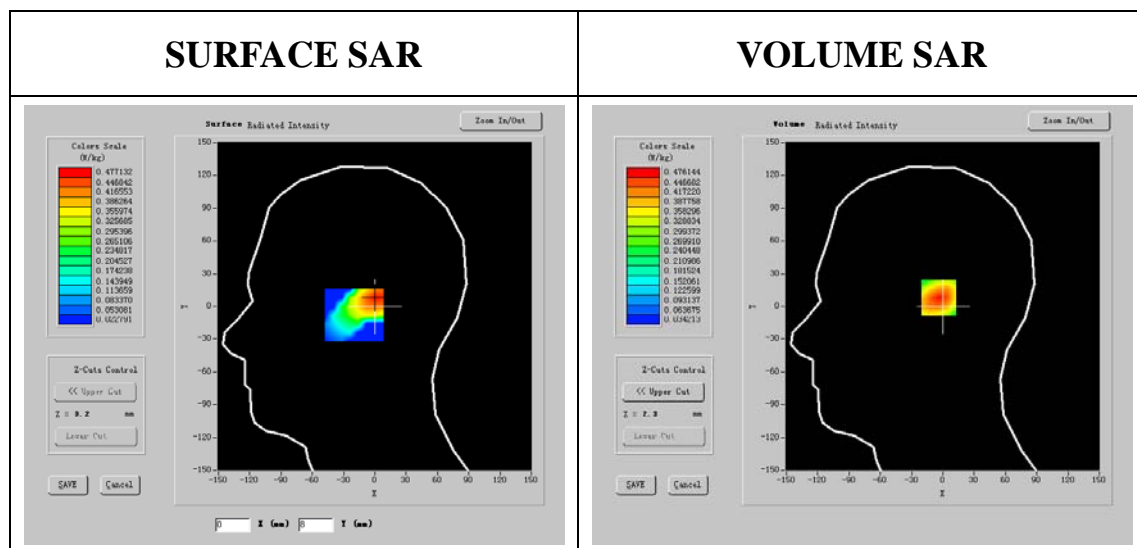
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## **B. Instrumentations.**

|                         |   |
|-------------------------|---|
| <b>PC</b>               | HP (Pentium(R) V3.06GHz, SN:375052-AA1) |
| <b>Network Emulator</b> | R&S (CMU200, SN:B23-03291)              |
| <b>Voltmeter</b>        | Keithley (2000, SN:1015843)             |
| <b>Synthesizer</b>      | Agilent (E8257C, SN:MY43321570)         |
| <b>Amplifier</b>        | Mini-Circuits (ZHL-42, SN:110405)       |
| <b>Power Meter</b>      | Agilent (E4416A, SN:QB41292714)         |
| <b>Probe</b>            | Antennessa (SN:SN_1109_EP_100)          |
| <b>Phantom</b>          | Antennessa (SN:SN41_05_SAM29)           |
| <b>Liquid</b>           | Antennessa                              |

## C. SAR Measurement Results

|   |            |
|---|------------|
| <b>Frequency (MHz)</b>                        | 824.200001 |
| <b>Relative permittivity (real part)</b>      | 41.490145  |
| <b>Relative permittivity (imaginary part)</b> | 19.510000  |
| <b>Conductivity (S/m)</b>                     | 0.853690   |
| <b>Variation (%)</b>                          | -1.000000  |



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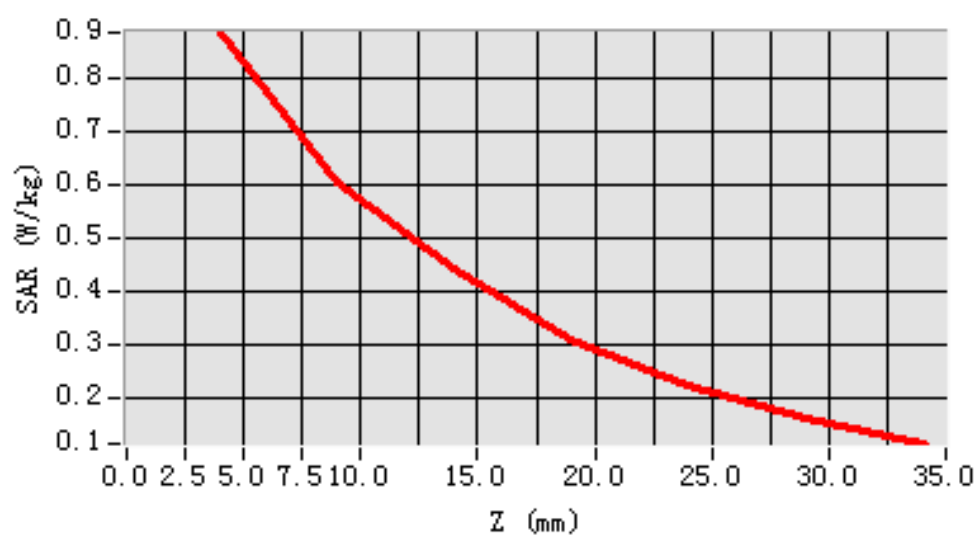
**Maximum location: X=-13.00, Y=-3.00**

|                      |          |
|----------------------|----------|
| <b>SAR 1g (W/Kg)</b> | 0.866169 |
|----------------------|----------|

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## Z Axis Scan

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



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## MEASUREMENT 2

Type: Phone measurement (Complete)

Date of measurement: 13/5/2010

Measurement duration: 19 minutes 56 seconds

Mobile Phone IMEI number: --

### **A. Experimental conditions.**

|                        |                              |
|------------------------|------------------------------|
| <b>Phantom File</b>    | zinf15.txt, Adaptative 2 max |
| <b>Phantom</b>         | Right head                   |
| <b>Device Position</b> | Cheek                        |
| <b>Band</b>            | GSM850                       |
| <b>Channels</b>        | Middle                       |
| <b>Signal</b>          | GSM                          |

### **B. Instrumentations.**

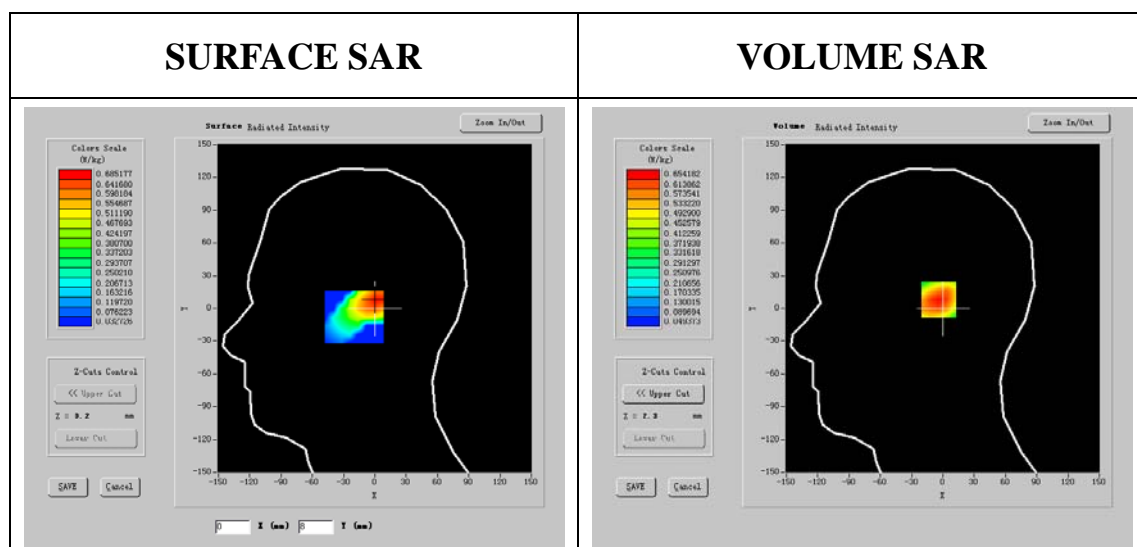


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|                         |   |
|-------------------------|---|
| <b>PC</b>               | HP (Pentium(R) V3.06GHz, SN:375052-AA1) |
| <b>Network Emulator</b> | R&S (CMU200, SN:B23-03291)              |
| <b>Voltmeter</b>        | Keithley (2000, SN:1015843)             |
| <b>Synthetizer</b>      | Agilent (E8257C, SN:MY43321570)         |
| <b>Amplifier</b>        | Mini-Circuits (ZHL-42, SN:110405)       |
| <b>Power Meter</b>      | Agilent (E4416A, SN:QB41292714)         |
| <b>Probe</b>            | Antennessa (SN:SN_1109_EP_100)          |
| <b>Phantom</b>          | Antennessa (SN:SN41_05_SAM29)           |
| <b>Liquid</b>           | Antennessa                              |

### C. SAR Measurement Results

|  |            |
|--|------------|
| Frequency (MHz)                        | 836.590001 |
| Relative permittivity (real part)      | 41.410230  |
| Relative permittivity (imaginary part) | 19.504201  |
| Conductivity (S/m)                     | 0.905234   |
| Variation (%)                          | -0.100000  |



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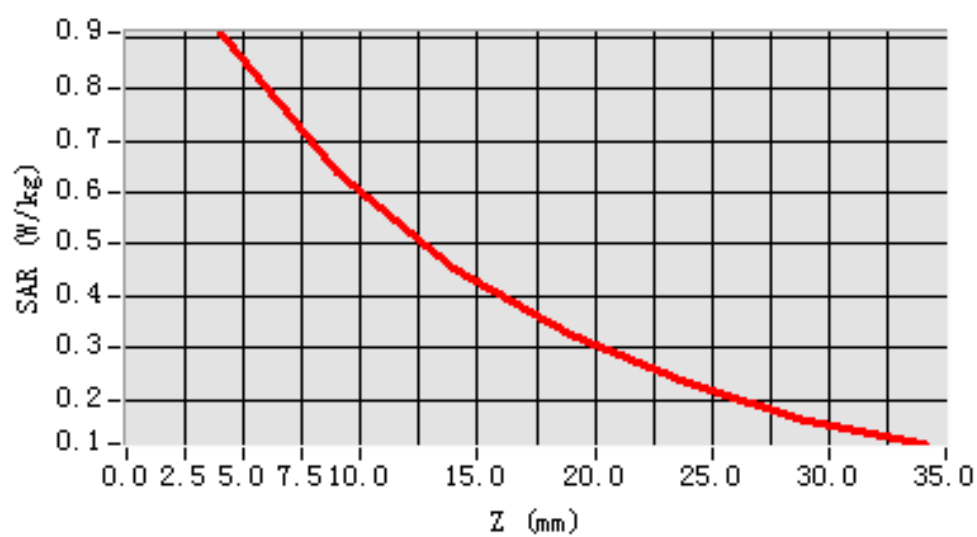
**Maximum location: X=-13.00, Y=-3.00**

|                      |          |
|----------------------|----------|
| <b>SAR 1g (W/Kg)</b> | 0.848915 |
|----------------------|----------|

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## Z Axis Scan

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



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## MEASUREMENT 3

Type: Phone measurement (Complete)

Date of measurement: 13/5/2010

Measurement duration: 19 minutes 56 seconds

Mobile Phone IMEI number: --

### **A. Experimental conditions.**

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

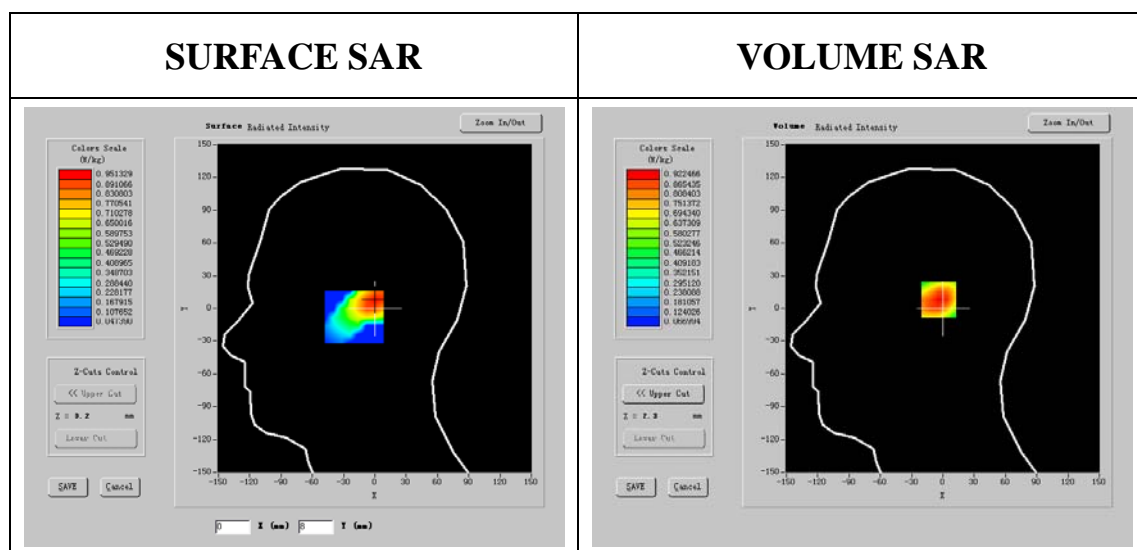
### **B. Instrumentations.**

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|                         |   |
|-------------------------|---|
| <b>PC</b>               | HP (Pentium(R) V3.06GHz, SN:375052-AA1) |
| <b>Network Emulator</b> | R&S (CMU200, SN:B23-03291)              |
| <b>Voltmeter</b>        | Keithley (2000, SN:1015843)             |
| <b>Synthetizer</b>      | Agilent (E8257C, SN:MY43321570)         |
| <b>Amplifier</b>        | Mini-Circuits (ZHL-42, SN:110405)       |
| <b>Power Meter</b>      | Agilent (E4416A, SN:QB41292714)         |
| <b>Probe</b>            | Antennessa (SN:SN_1109_EP_100)          |
| <b>Phantom</b>          | Antennessa (SN:SN41_05_SAM29)           |
| <b>Liquid</b>           | Antennessa                              |

## C. SAR Measurement Results

|   |            |
|---|------------|
| <b>Frequency (MHz)</b>                        | 848.799999 |
| <b>Relative permittivity (real part)</b>      | 41.202610  |
| <b>Relative permittivity (imaginary part)</b> | 19.586120  |
| <b>Conductivity (S/m)</b>                     | 0.904346   |
| <b>Variation (%)</b>                          | -0.100000  |



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

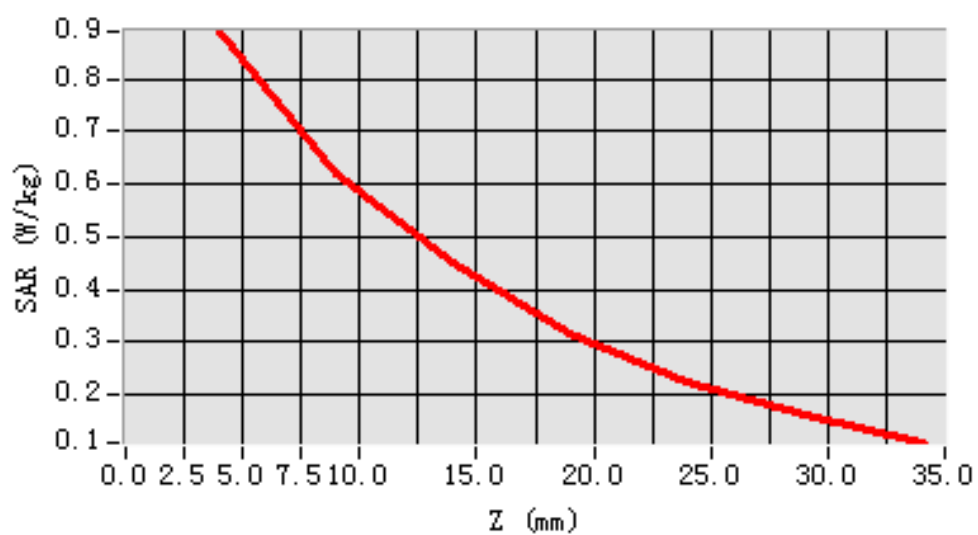
|                      |          |
|----------------------|----------|
| <b>SAR 1g (W/Kg)</b> | 0.831094 |
|----------------------|----------|



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## Z Axis Scan

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



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## MEASUREMENT 4

Type: Phone measurement (Complete)

Date of measurement: 13/5/2010

Measurement duration: 19 minutes 47 seconds

Mobile Phone IMEI number: --

### **A. Experimental conditions.**

|                        |                              |
|------------------------|------------------------------|
| <b>Phantom File</b>    | zinf15.txt, Adaptative 2 max |
| <b>Phantom</b>         | Right head                   |
| <b>Device Position</b> | Tilt                         |
| <b>Band</b>            | GSM850                       |
| <b>Channels</b>        | Low                          |
| <b>Signal</b>          | GSM                          |

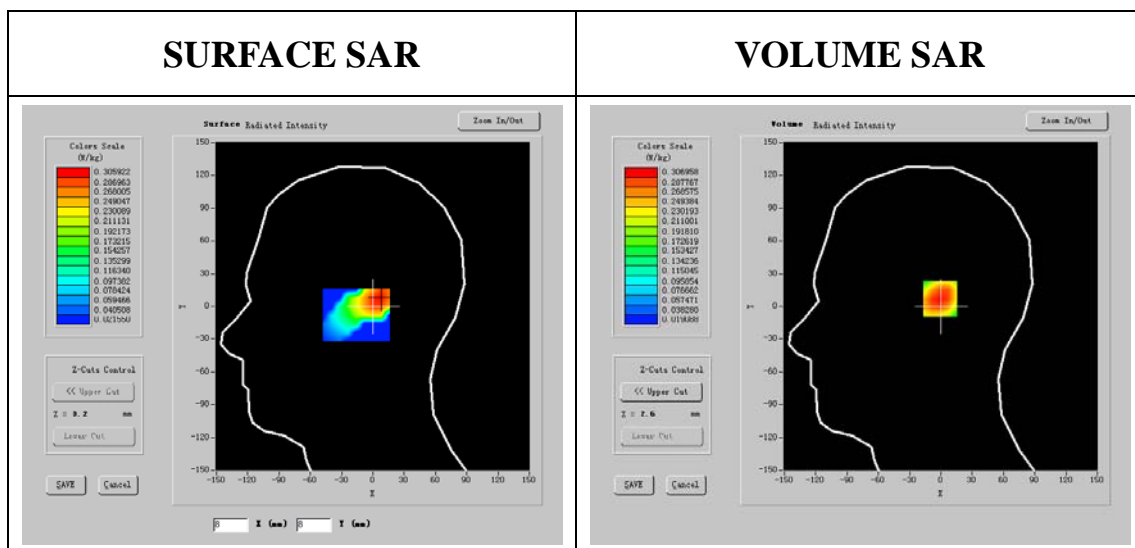
### **B. Instrumentations.**

---

|                         |   |
|-------------------------|---|
| <b>PC</b>               | HP (Pentium(R) V3.06GHz, SN:375052-AA1) |
| <b>Network Emulator</b> | R&S (CMU200, SN:B23-03291)              |
| <b>Voltmeter</b>        | Keithley (2000, SN:1015843)             |
| <b>Synthesizer</b>      | Agilent (E8257C, SN:MY43321570)         |
| <b>Amplifier</b>        | Mini-Circuits (ZHL-42, SN:110405)       |
| <b>Power Meter</b>      | Agilent (E4416A, SN:QB41292714)         |
| <b>Probe</b>            | Antennessa (SN:SN_1109_EP_100)          |
| <b>Phantom</b>          | Antennessa (SN:SN41_05_SAM29)           |
| <b>Liquid</b>           | Antennessa                              |

## C. SAR Measurement Results

|   |            |
|---|------------|
| <b>Frequency (MHz)</b>                        | 824.202012 |
| <b>Relative permittivity (real part)</b>      | 41.425919  |
| <b>Relative permittivity (imaginary part)</b> | 19.524721  |
| <b>Conductivity (S/m)</b>                     | 0.814922   |
| <b>Variation (%)</b>                          | -1.000000  |



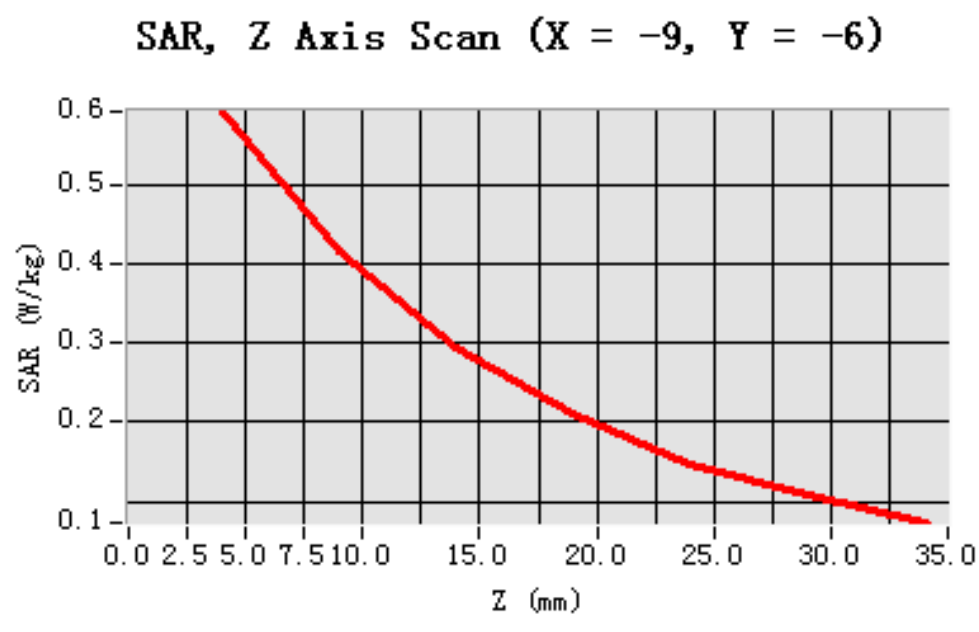
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**Maximum location: X=-9.00, Y=-6.00**

|                      |          |
|----------------------|----------|
| <b>SAR 1g (W/Kg)</b> | 0.646488 |
|----------------------|----------|

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## Z Axis Scan



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## MEASUREMENT 5

Type: Phone measurement (Complete)

Date of measurement: 13/5/2010

Measurement duration: 19 minutes 47 seconds

Mobile Phone IMEI number: --

### **A. Experimental conditions.**

|                        |                            |
|------------------------|----------------------------|
| <b>Phantom File</b>    | zinf15.txt, Adaptive 2 max |
| <b>Phantom</b>         | Right hand                 |
| <b>Device Position</b> | Tilt                       |
| <b>Band</b>            | GSM850                     |
| <b>Channels</b>        | Middle                     |
| <b>Signal</b>          | GSM                        |

### **B. Instrumentations.**

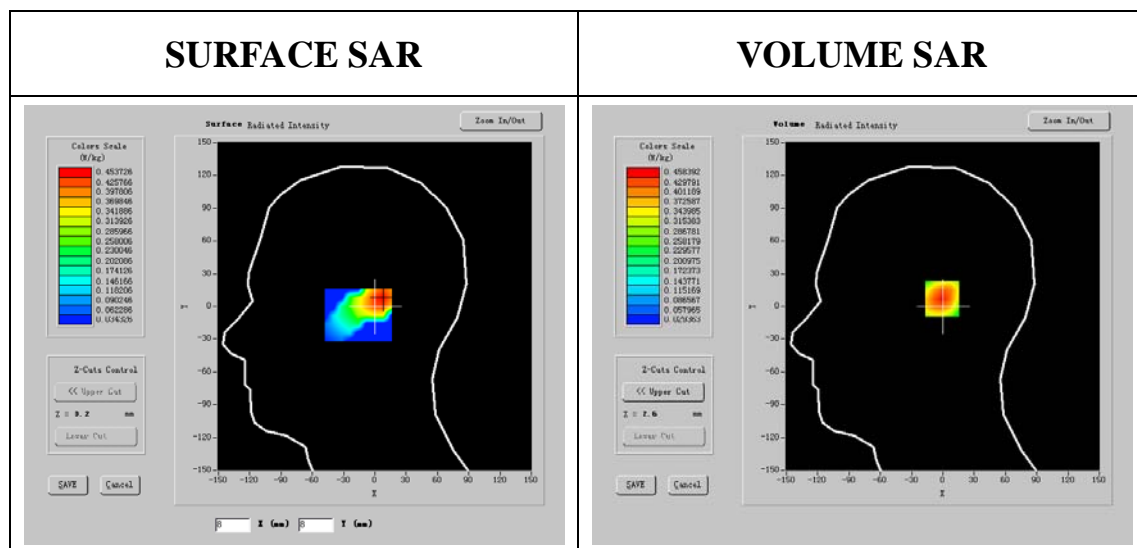
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|                         |   |
|-------------------------|---|
| <b>PC</b>               | HP (Pentium(R) V3.06GHz, SN:375052-AA1) |
| <b>Network Emulator</b> | R&S (CMU200, SN:B23-03291)              |
| <b>Voltmeter</b>        | Keithley (2000, SN:1015843)             |
| <b>Synthesizer</b>      | Agilent (E8257C, SN:MY43321570)         |
| <b>Amplifier</b>        | Mini-Circuits (ZHL-42, SN:110405)       |
| <b>Power Meter</b>      | Agilent (E4416A, SN:QB41292714)         |
| <b>Probe</b>            | Antennessa (SN:SN_1109_EP_100)          |
| <b>Phantom</b>          | Antennessa (SN:SN41_05_SAM29)           |
| <b>Liquid</b>           | Antennessa                              |



## C. SAR Measurement Results

|   |            |
|---|------------|
| <b>Frequency (MHz)</b>                        | 836.600210 |
| <b>Relative permittivity (real part)</b>      | 41.412369  |
| <b>Relative permittivity (imaginary part)</b> | 19.530121  |
| <b>Conductivity (S/m)</b>                     | 0.903127   |
| <b>Variation (%)</b>                          | -0.800000  |



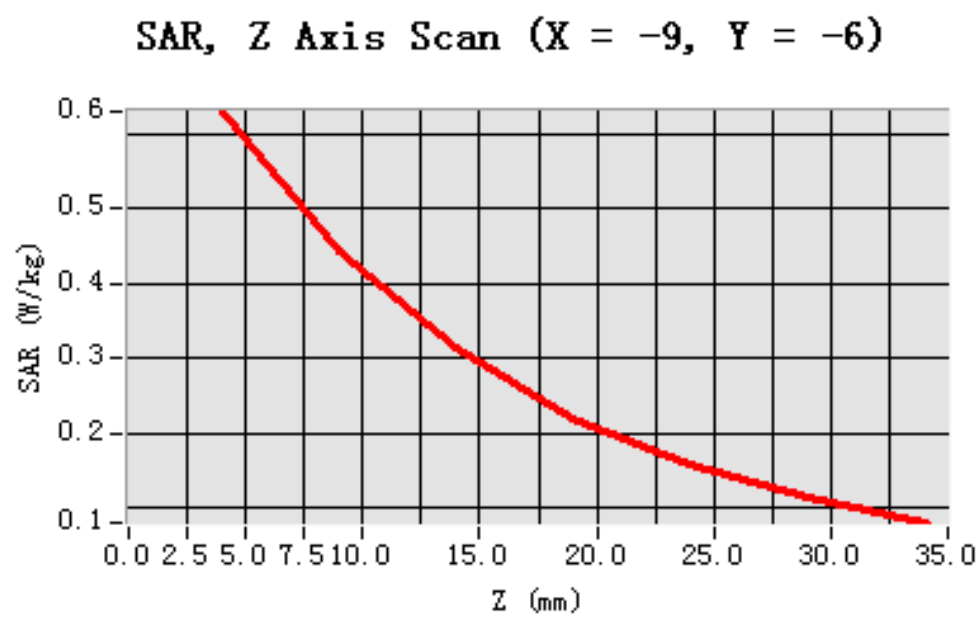
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**Maximum location: X=-9.00, Y=-6.00**

|                      |          |
|----------------------|----------|
| <b>SAR 1g (W/Kg)</b> | 0.655264 |
|----------------------|----------|

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## Z Axis Scan



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## MEASUREMENT 6

Type: Phone measurement (Complete)

Date of measurement: 13/5/2010

Measurement duration: 19 minutes 47 seconds

Mobile Phone IMEI number: --

### **A. Experimental conditions.**

|                        |                            |
|------------------------|----------------------------|
| <b>Phantom File</b>    | zinf15.txt, Adaptive 2 max |
| <b>Phantom</b>         | Right hand                 |
| <b>Device Position</b> | Tilt                       |
| <b>Band</b>            | GSM850                     |
| <b>Channels</b>        | High                       |
| <b>Signal</b>          | GSM                        |

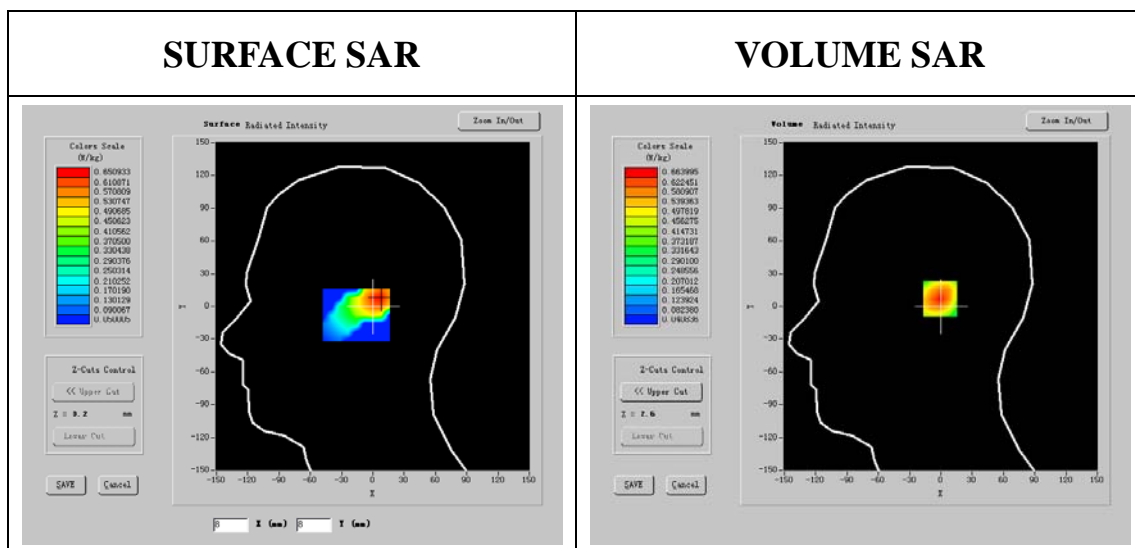
### **B. Instrumentations.**

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|                         |   |
|-------------------------|---|
| <b>PC</b>               | HP (Pentium(R) V3.06GHz, SN:375052-AA1) |
| <b>Network Emulator</b> | R&S (CMU200, SN:B23-03291)              |
| <b>Voltmeter</b>        | Keithley (2000, SN:1015843)             |
| <b>Synthesizer</b>      | Agilent (E8257C, SN:MY43321570)         |
| <b>Amplifier</b>        | Mini-Circuits (ZHL-42, SN:110405)       |
| <b>Power Meter</b>      | Agilent (E4416A, SN:QB41292714)         |
| <b>Probe</b>            | Antennessa (SN:SN_1109_EP_100)          |
| <b>Phantom</b>          | Antennessa (SN:SN41_05_SAM29)           |
| <b>Liquid</b>           | Antennessa                              |

## C. SAR Measurement Results

|   |            |
|---|------------|
| <b>Frequency (MHz)</b>                        | 848.799000 |
| <b>Relative permittivity (real part)</b>      | 41.222141  |
| <b>Relative permittivity (imaginary part)</b> | 19.533510  |
| <b>Conductivity (S/m)</b>                     | 0.902146   |
| <b>Variation (%)</b>                          | -0.120000  |



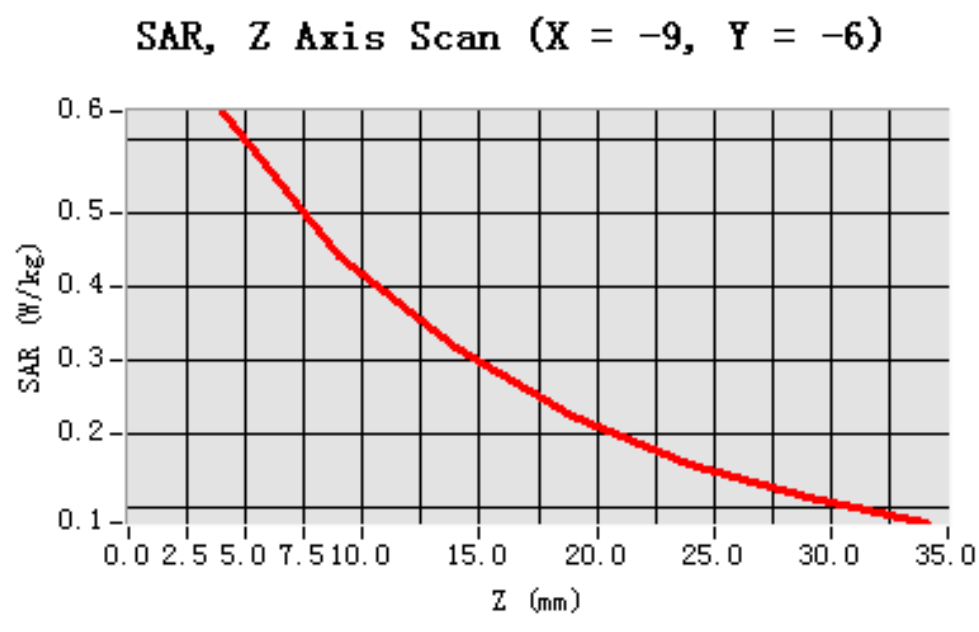
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**Maximum location: X=-9.00, Y=-6.00**

|                      |          |
|----------------------|----------|
| <b>SAR 1g (W/Kg)</b> | 0.668713 |
|----------------------|----------|

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## Z Axis Scan





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## MEASUREMENT 7

Type: Phone measurement (Complete)

Date of measurement: 13/5/2010

Measurement duration: 20 minutes 2 seconds

Mobile Phone IMEI number: --

### **A. Experimental conditions.**

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

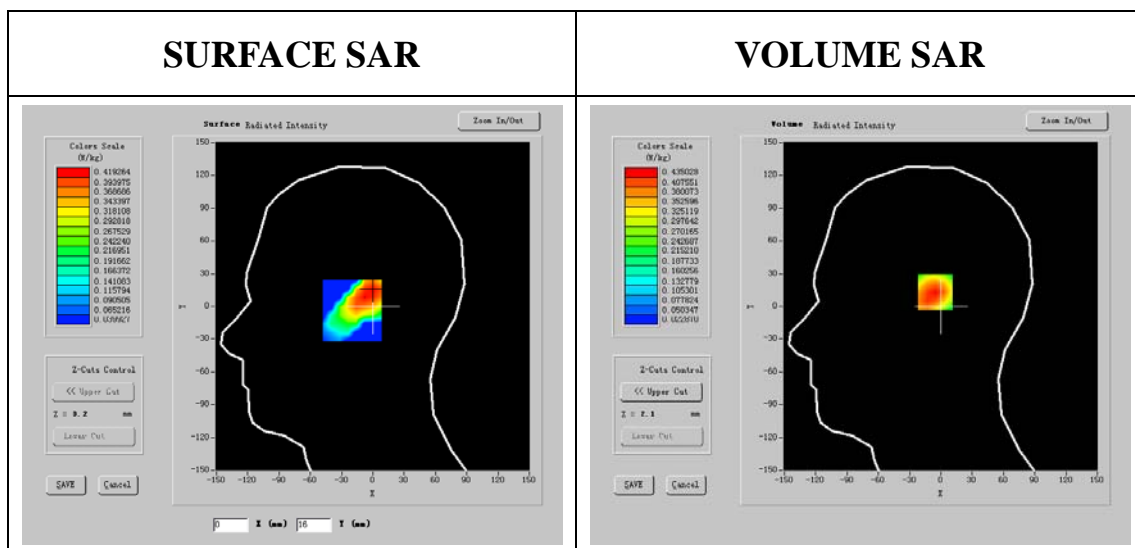
### **B. Instrumentations.**

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|                         |   |
|-------------------------|---|
| <b>PC</b>               | HP (Pentium(R) V3.06GHz, SN:375052-AA1) |
| <b>Network Emulator</b> | R&S (CMU200, SN:B23-03291)              |
| <b>Voltmeter</b>        | Keithley (2000, SN:1015843)             |
| <b>Synthetizer</b>      | Agilent (E8257C, SN:MY43321570)         |
| <b>Amplifier</b>        | Mini-Circuits (ZHL-42, SN:110405)       |
| <b>Power Meter</b>      | Agilent (E4416A, SN:QB41292714)         |
| <b>Probe</b>            | Antennessa (SN:SN_1109_EP_100)          |
| <b>Phantom</b>          | Antennessa (SN:SN41_05_SAM29)           |
| <b>Liquid</b>           | Antennessa                              |

## C. SAR Measurement Results

|   |            |
|---|------------|
| <b>Frequency (MHz)</b>                        | 824.203202 |
| <b>Relative permittivity (real part)</b>      | 41.420329  |
| <b>Relative permittivity (imaginary part)</b> | 19.543256  |
| <b>Conductivity (S/m)</b>                     | 0.834142   |
| <b>Variation (%)</b>                          | -0.200000  |



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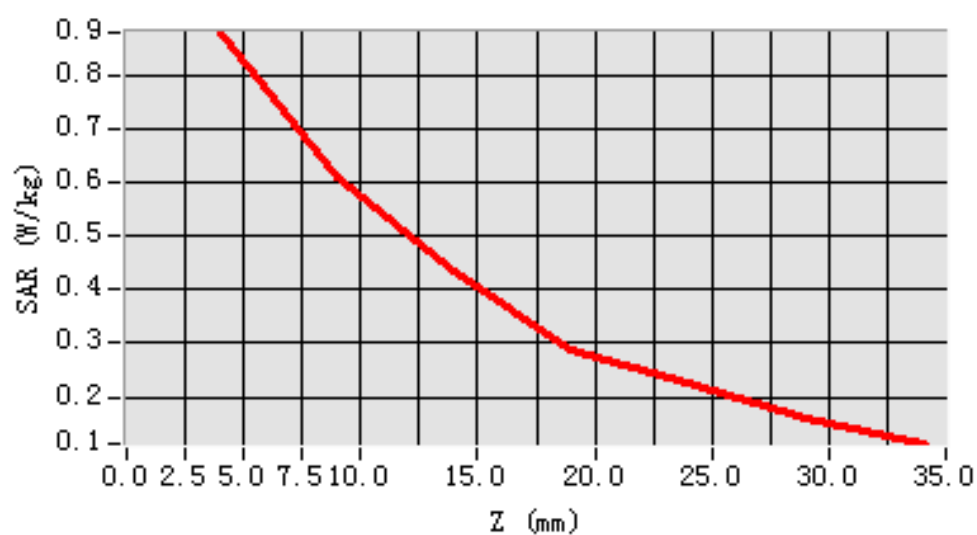
**Maximum location: X=-25.00, Y=-11.00**

|                      |          |
|----------------------|----------|
| <b>SAR 1g (W/Kg)</b> | 0.858203 |
|----------------------|----------|

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## Z Axis Scan

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



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## MEASUREMENT 8

Type: Phone measurement (Complete)

Date of measurement: 13/5/2010

Measurement duration: 20 minutes 2 seconds

Mobile Phone IMEI number: --

### **A. Experimental conditions.**

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

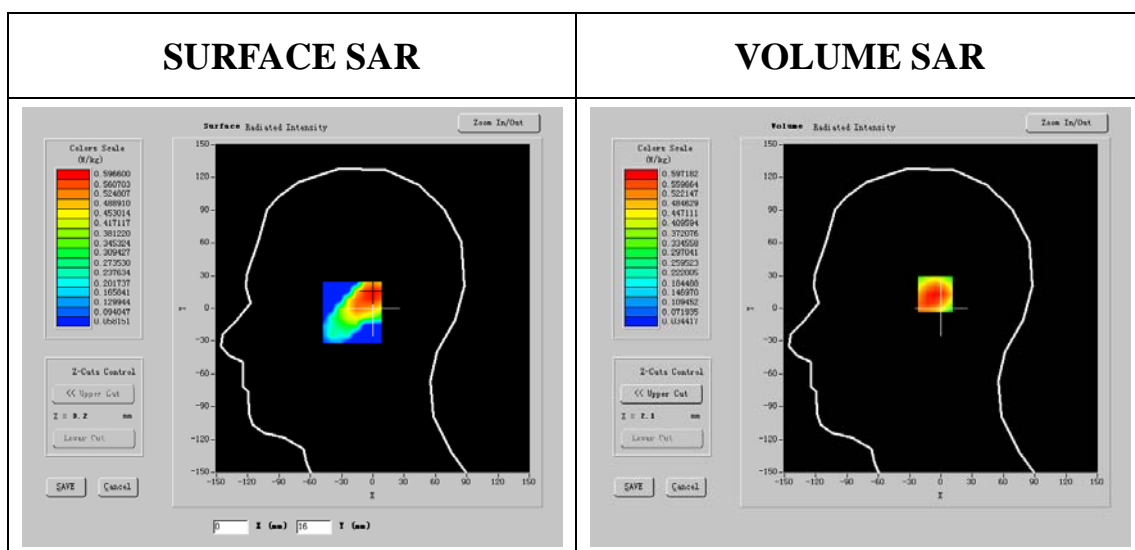
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## **B. Instrumentations.**

|                         |   |
|-------------------------|---|
| <b>PC</b>               | HP (Pentium(R) V3.06GHz, SN:375052-AA1) |
| <b>Network Emulator</b> | R&S (CMU200, SN:B23-03291)              |
| <b>Voltmeter</b>        | Keithley (2000, SN:1015843)             |
| <b>Synthesizer</b>      | Agilent (E8257C, SN:MY43321570)         |
| <b>Amplifier</b>        | Mini-Circuits (ZHL-42, SN:110405)       |
| <b>Power Meter</b>      | Agilent (E4416A, SN:QB41292714)         |
| <b>Probe</b>            | Antennessa (SN:SN_1109_EP_100)          |
| <b>Phantom</b>          | Antennessa (SN:SN41_05_SAM29)           |
| <b>Liquid</b>           | Antennessa                              |

## C. SAR Measurement Results

|   |            |
|---|------------|
| <b>Frequency (MHz)</b>                        | 836.600010 |
| <b>Relative permittivity (real part)</b>      | 41.485119  |
| <b>Relative permittivity (imaginary part)</b> | 19.540231  |
| <b>Conductivity (S/m)</b>                     | 0.912041   |
| <b>Variation (%)</b>                          | -0.200000  |





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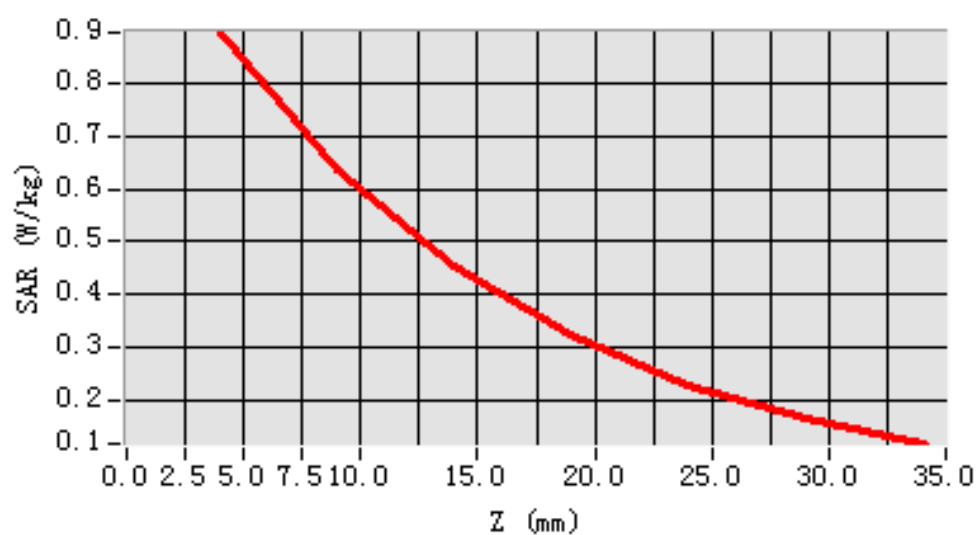
**Maximum location: X=-25.00, Y=-11.00**

|                      |          |
|----------------------|----------|
| <b>SAR 1g (W/Kg)</b> | 0.812306 |
|----------------------|----------|

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## Z Axis Scan

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



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## MEASUREMENT 9

Type: Phone measurement (Complete)

Date of measurement: 13/5/2010

Measurement duration: 20 minutes 2 seconds

Mobile Phone IMEI number: --

### **A. Experimental conditions.**

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

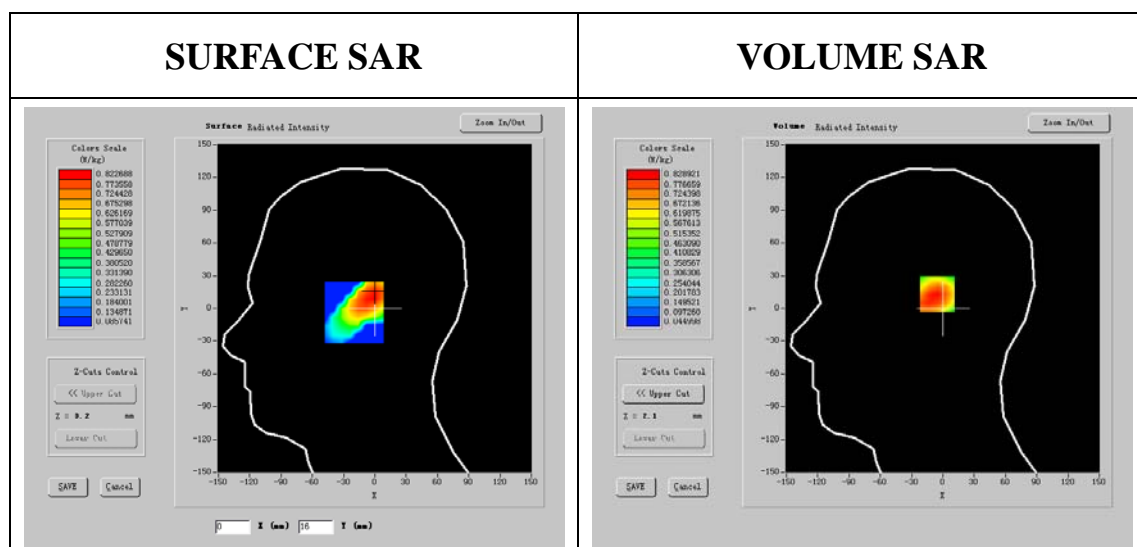
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## **B. Instrumentations.**

|                         |   |
|-------------------------|---|
| <b>PC</b>               | HP (Pentium(R) V3.06GHz, SN:375052-AA1) |
| <b>Network Emulator</b> | R&S (CMU200, SN:B23-03291)              |
| <b>Voltmeter</b>        | Keithley (2000, SN:1015843)             |
| <b>Synthetizer</b>      | Agilent (E8257C, SN:MY43321570)         |
| <b>Amplifier</b>        | Mini-Circuits (ZHL-42, SN:110405)       |
| <b>Power Meter</b>      | Agilent (E4416A, SN:QB41292714)         |
| <b>Probe</b>            | Antennessa (SN:SN_1109_EP_100)          |
| <b>Phantom</b>          | Antennessa (SN:SN41_05_SAM29)           |
| <b>Liquid</b>           | Antennessa                              |

## C. SAR Measurement Results

|   |            |
|---|------------|
| <b>Frequency (MHz)</b>                        | 848.592416 |
| <b>Relative permittivity (real part)</b>      | 41.223021  |
| <b>Relative permittivity (imaginary part)</b> | 19.532100  |
| <b>Conductivity (S/m)</b>                     | 0.910220   |
| <b>Variation (%)</b>                          | -0.300000  |



---

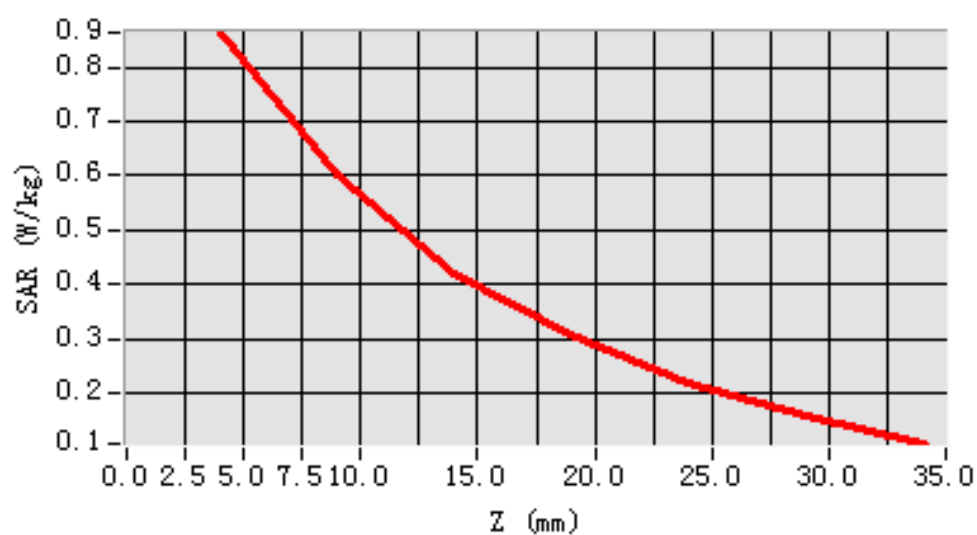
**Maximum location: X=-25.00, Y=-11.00**

|                      |          |
|----------------------|----------|
| <b>SAR 1g (W/Kg)</b> | 0.802330 |
|----------------------|----------|

---

## Z Axis Scan

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



---

## MEASUREMENT 10

Type: Phone measurement (Complete)

Date of measurement: 13/5/2010

Measurement duration: 19 minutes 49 seconds

Mobile Phone IMEI number: --

### **A. Experimental conditions.**

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

### **B. Instrumentations.**

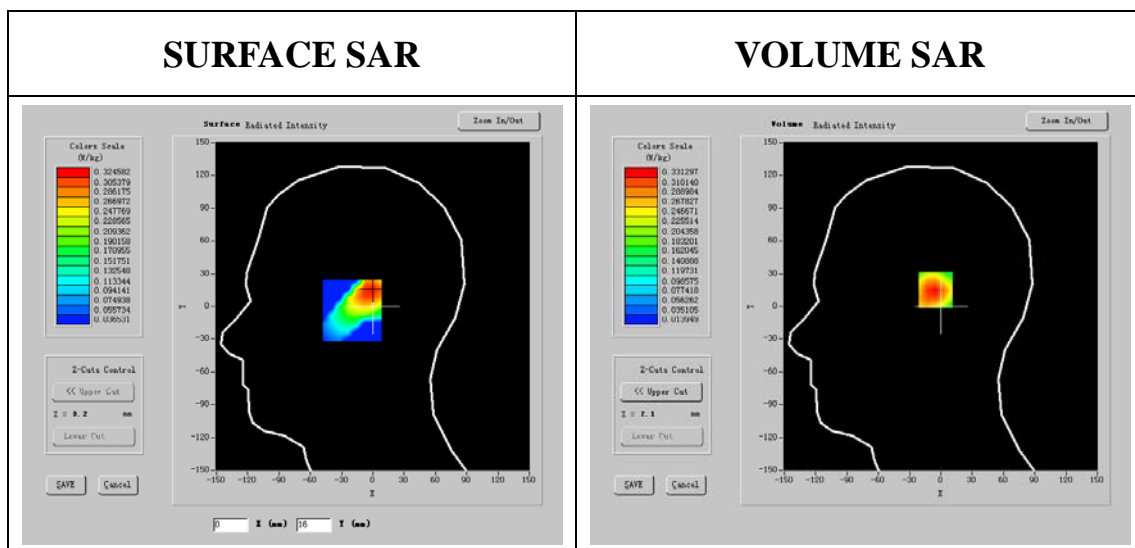


---

|                         |   |
|-------------------------|---|
| <b>PC</b>               | HP (Pentium(R) V3.06GHz, SN:375052-AA1) |
| <b>Network Emulator</b> | R&S (CMU200, SN:B23-03291)              |
| <b>Voltmeter</b>        | Keithley (2000, SN:1015843)             |
| <b>Synthesizer</b>      | Agilent (E8257C, SN:MY43321570)         |
| <b>Amplifier</b>        | Mini-Circuits (ZHL-42, SN:110405)       |
| <b>Power Meter</b>      | Agilent (E4416A, SN:QB41292714)         |
| <b>Probe</b>            | Antennessa (SN:SN_1109_EP_100)          |
| <b>Phantom</b>          | Antennessa (SN:SN41_05_SAM29)           |
| <b>Liquid</b>           | Antennessa                              |

## C. SAR Measurement Results

|   |            |
|---|------------|
| <b>Frequency (MHz)</b>                        | 824.203202 |
| <b>Relative permittivity (real part)</b>      | 41.412501  |
| <b>Relative permittivity (imaginary part)</b> | 19.502103  |
| <b>Conductivity (S/m)</b>                     | 0.910212   |
| <b>Variation (%)</b>                          | -0.200000  |



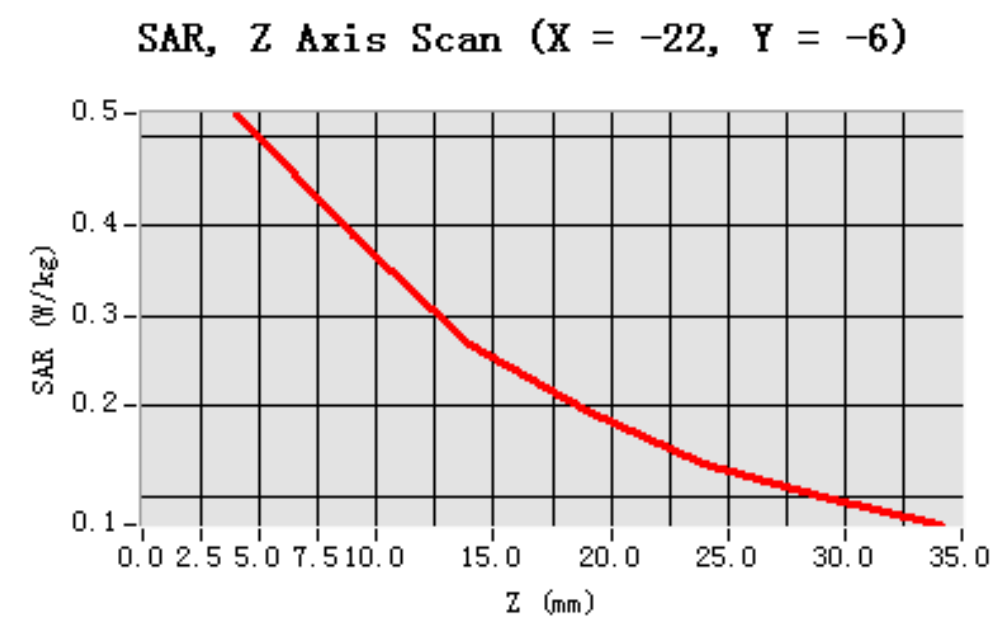
---

**Maximum location: X=-22.00, Y=-6.00**

|                      |          |
|----------------------|----------|
| <b>SAR 1g (W/Kg)</b> | 0.457115 |
|----------------------|----------|

---

## Z Axis Scan



---

## MEASUREMENT 11

Type: Phone measurement (Complete)

Date of measurement: 13/5/2010

Measurement duration: 19 minutes 49 seconds

Mobile Phone IMEI number: --

### **A. Experimental conditions.**

|                        |                              |
|------------------------|------------------------------|
| <b>Phantom File</b>    | zinf15.txt, Adaptative 2 max |
| <b>Phantom</b>         | Left head                    |
| <b>Device Position</b> | Tilt                         |
| <b>Band</b>            | GSM850                       |
| <b>Channels</b>        | Middle                       |
| <b>Signal</b>          | GSM                          |

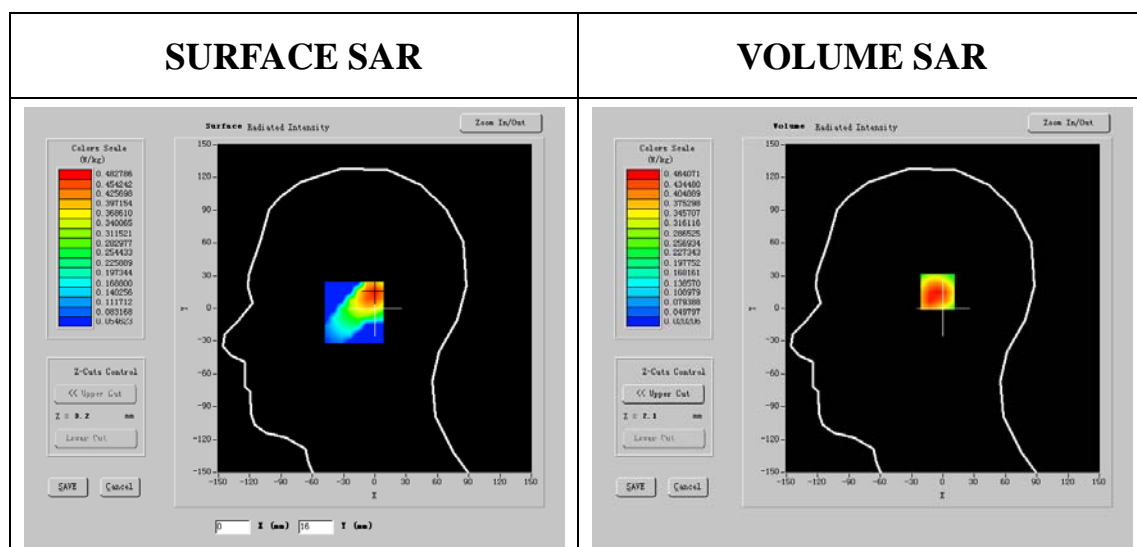
### **B. Instrumentations.**

---

|                         |   |
|-------------------------|---|
| <b>PC</b>               | HP (Pentium(R) V3.06GHz, SN:375052-AA1) |
| <b>Network Emulator</b> | R&S (CMU200, SN:B23-03291)              |
| <b>Voltmeter</b>        | Keithley (2000, SN:1015843)             |
| <b>Synthesizer</b>      | Agilent (E8257C, SN:MY43321570)         |
| <b>Amplifier</b>        | Mini-Circuits (ZHL-42, SN:110405)       |
| <b>Power Meter</b>      | Agilent (E4416A, SN:QB41292714)         |
| <b>Probe</b>            | Antennessa (SN:SN_1109_EP_100)          |
| <b>Phantom</b>          | Antennessa (SN:SN41_05_SAM29)           |
| <b>Liquid</b>           | Antennessa                              |

## C. SAR Measurement Results

|   |            |
|---|------------|
| <b>Frequency (MHz)</b>                        | 836.602124 |
| <b>Relative permittivity (real part)</b>      | 41.456030  |
| <b>Relative permittivity (imaginary part)</b> | 19.540005  |
| <b>Conductivity (S/m)</b>                     | 0.902302   |
| <b>Variation (%)</b>                          | -0.120000  |



---

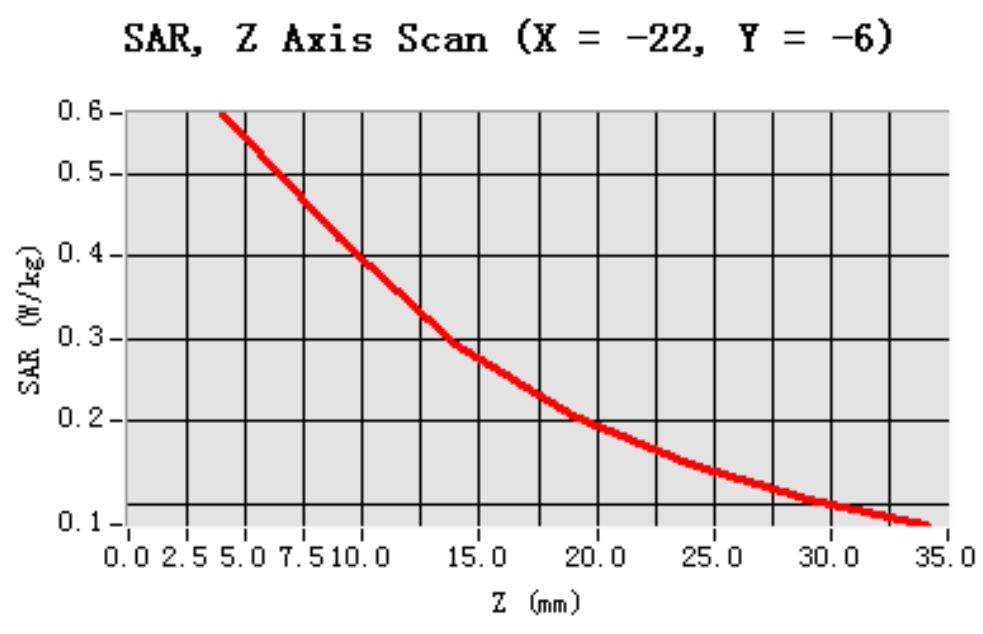
**Maximum location: X=-22.00, Y=-6.00**

|                      |          |
|----------------------|----------|
| <b>SAR 1g (W/Kg)</b> | 0.510523 |
|----------------------|----------|



---

## Z Axis Scan



---

## MEASUREMENT 12

Type: Phone measurement (Complete)

Date of measurement: 13/5/2010

Measurement duration: 19 minutes 49 seconds

Mobile Phone IMEI number: --

### **A. Experimental conditions.**

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

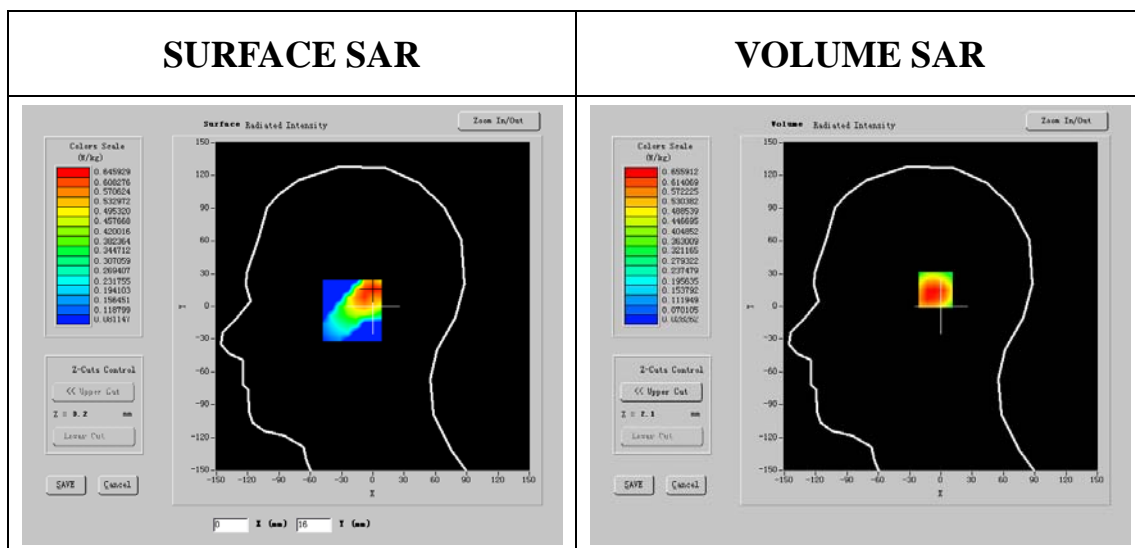
### **B. Instrumentations.**

---

|                         |   |
|-------------------------|---|
| <b>PC</b>               | HP (Pentium(R) V3.06GHz, SN:375052-AA1) |
| <b>Network Emulator</b> | R&S (CMU200, SN:B23-03291)              |
| <b>Voltmeter</b>        | Keithley (2000, SN:1015843)             |
| <b>Synthetizer</b>      | Agilent (E8257C, SN:MY43321570)         |
| <b>Amplifier</b>        | Mini-Circuits (ZHL-42, SN:110405)       |
| <b>Power Meter</b>      | Agilent (E4416A, SN:QB41292714)         |
| <b>Probe</b>            | Antennessa (SN:SN_1109_EP_100)          |
| <b>Phantom</b>          | Antennessa (SN:SN41_05_SAM29)           |
| <b>Liquid</b>           | Antennessa                              |

## C. SAR Measurement Results

|   |            |
|---|------------|
| <b>Frequency (MHz)</b>                        | 848.790120 |
| <b>Relative permittivity (real part)</b>      | 41.431036  |
| <b>Relative permittivity (imaginary part)</b> | 19.524710  |
| <b>Conductivity (S/m)</b>                     | 0.910306   |
| <b>Variation (%)</b>                          | -1.200000  |



---

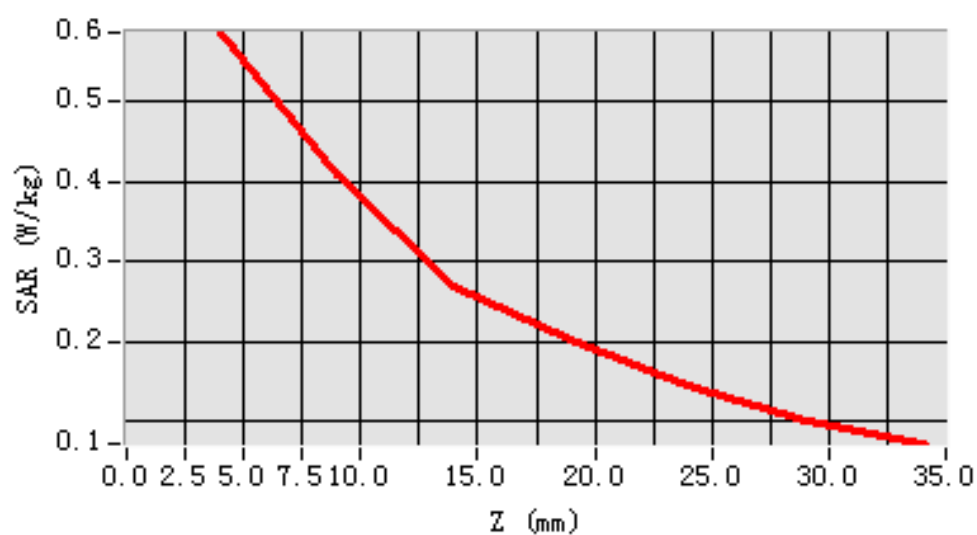
**Maximum location: X=-22.00, Y=-6.00**

|                      |          |
|----------------------|----------|
| <b>SAR 1g (W/Kg)</b> | 0.542094 |
|----------------------|----------|

---

## Z Axis Scan

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



---

# Face up with earphone

|                      |
|----------------------|
| <b>MEASUREMENT 1</b> |
|----------------------|

Type: Phone measurement (Complete)

Date of measurement: 13/5/2010

Measurement duration: 14 minutes 29 seconds

Mobile Phone IMEI number:

## **A. Experimental conditions.**

|                        |                                     |
|------------------------|-------------------------------------|
| <b>Phantom File</b>    | surf_sam_plan.txt, Adaptative 2 max |
| <b>Phantom</b>         | Validation plane                    |
| <b>Device Position</b> | Body                                |
| <b>Band</b>            | GSM850                              |
| <b>Channels</b>        | Low                                 |
| <b>Signal</b>          | GSM                                 |

## **B. Instrumentations.**

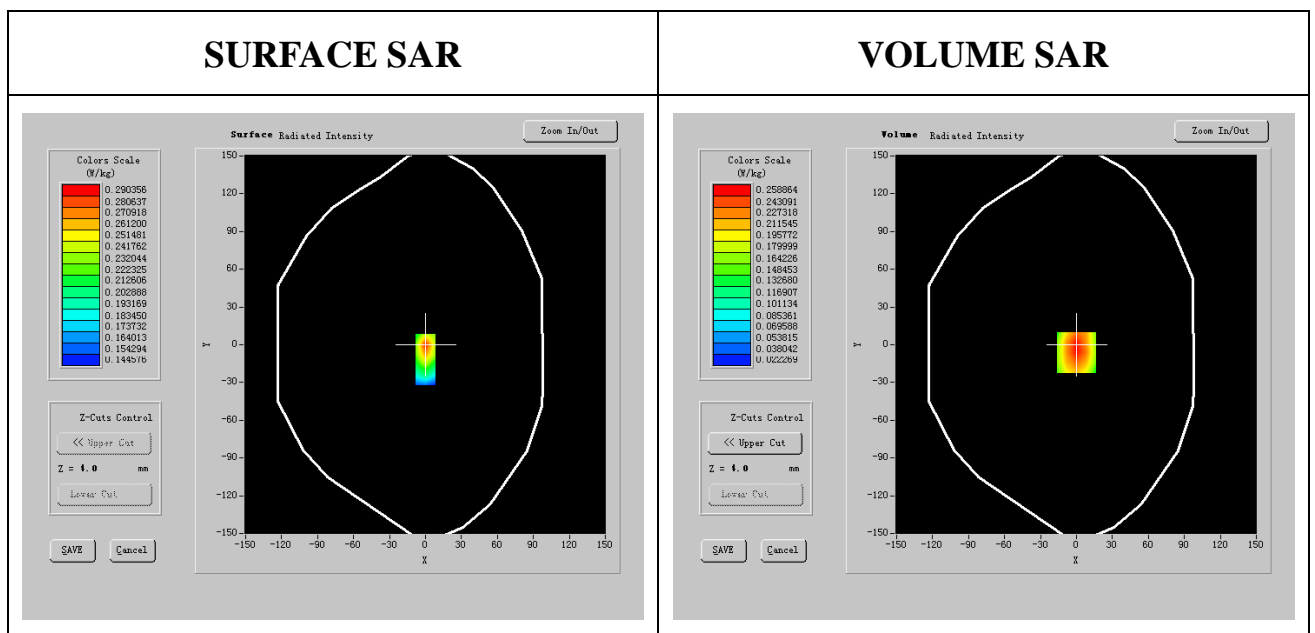
---

|                         |  |
|-------------------------|--|
| <b>PC</b>               | HP (Pentium(R) V 3.06GHz, SN:375052-AA1) |
| <b>Network Emulator</b> | R&S (CMU200, SN:B23-03291)               |
| <b>Voltmeter</b>        | Keithley (2000, SN:1015843)              |
| <b>Synthesizer</b>      | Agilent (E8257C, SN:MY43321570)          |
| <b>Amplifier</b>        | Mini-Circuits (ZHL-42, SN:110405)        |
| <b>Power Meter</b>      | Agilent (E4416A, SN:QB41292714)          |
| <b>Probe</b>            | Antennessa (SN:SN_1109_EP_100)           |
| <b>Phantom</b>          | Antennessa (SN:SN41_05_SAM29)            |
| <b>Liquid</b>           | Antennessa                               |



## C. SAR Measurement Results

|   |            |
|---|------------|
| <b>Frequency (MHz)</b>                        | 824.200002 |
| <b>Relative permittivity (real part)</b>      | 55.530120  |
| <b>Relative permittivity (imaginary part)</b> | 21.241030  |
| <b>Conductivity (S/m)</b>                     | 0.935209   |
| <b>Variation (%)</b>                          | -1.100000  |



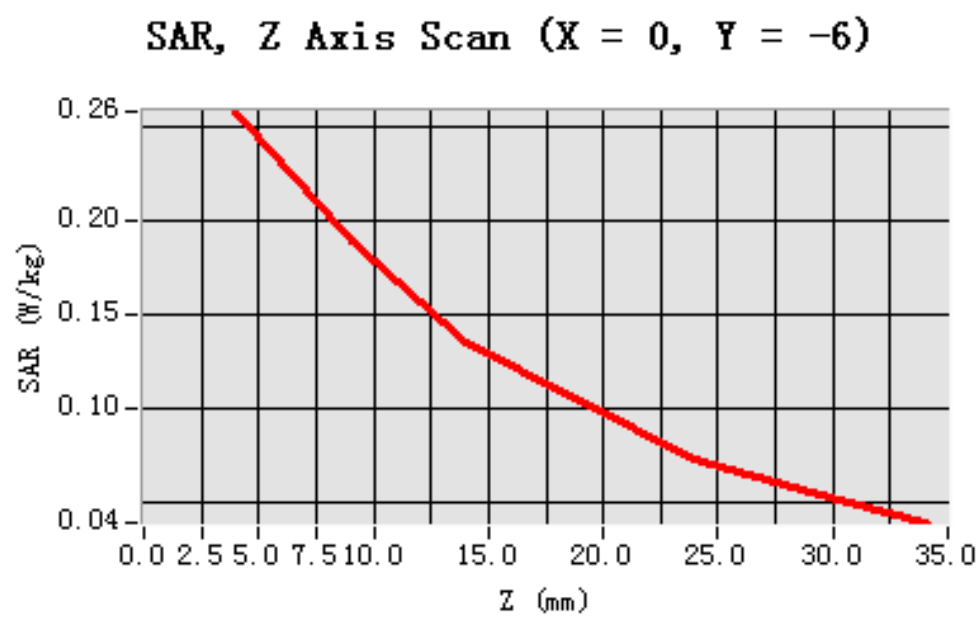
---

**Maximum location: X=0.00, Y=-6.00**

|                      |          |
|----------------------|----------|
| <b>SAR 1g (W/Kg)</b> | 0.302412 |
|----------------------|----------|

---

## Z Axis Scan



---

## MEASUREMENT 2

Type: Phone measurement (Complete)

Date of measurement: 13/5/2010

Measurement duration: 14 minutes 29 seconds

Mobile Phone IMEI number:

### **A. Experimental conditions.**

|                        |                                   |
|------------------------|-----------------------------------|
| <b>Phantom File</b>    | surf_sam_plan.txt, Adaptive 2 max |
| <b>Phantom</b>         | Validation plane                  |
| <b>Device Position</b> | Body                              |
| <b>Band</b>            | GSM850                            |
| <b>Channels</b>        | Middle                            |
| <b>Signal</b>          | GSM                               |

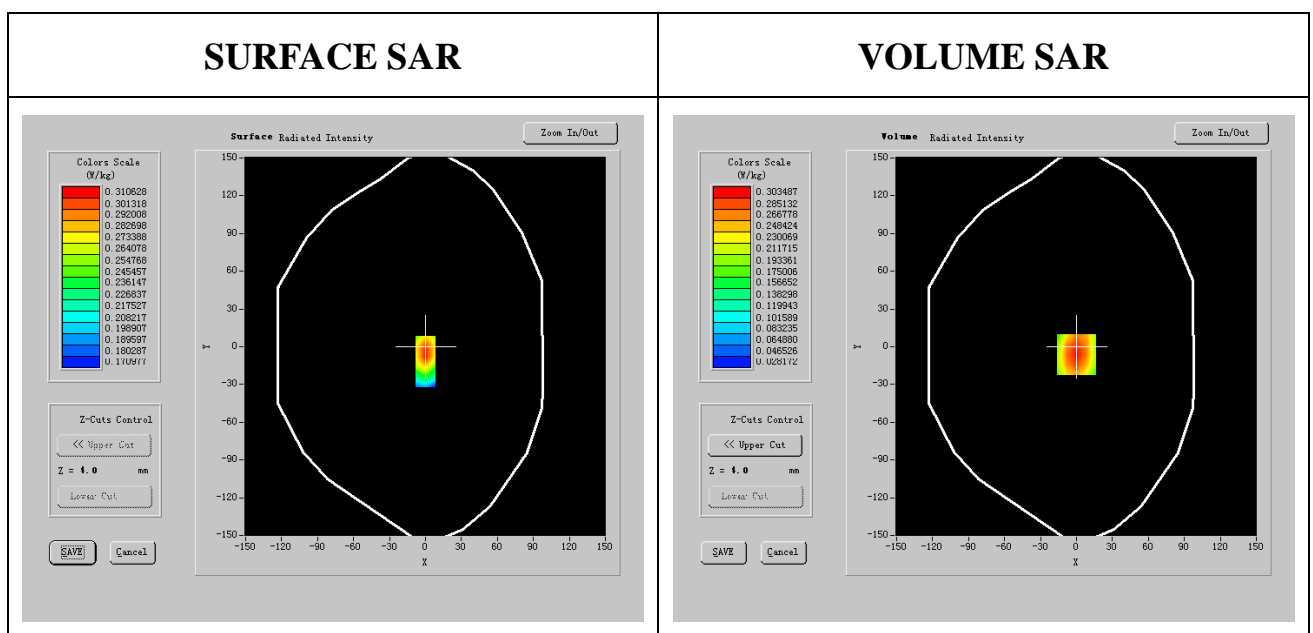
---

## **B. Instrumentations.**

|                         |  |
|-------------------------|--|
| <b>PC</b>               | HP (Pentium(R) V 3.06GHz, SN:375052-AA1) |
| <b>Network Emulator</b> | R&S (CMU200, SN:B23-03291)               |
| <b>Voltmeter</b>        | Keithley (2000, SN:1015843)              |
| <b>Synthetizer</b>      | Agilent (E8257C, SN:MY43321570)          |
| <b>Amplifier</b>        | Mini-Circuits (ZHL-42, SN:110405)        |
| <b>Power Meter</b>      | Agilent (E4416A, SN:QB41292714)          |
| <b>Probe</b>            | Antennessa (SN:SN_1109_EP_100)           |
| <b>Phantom</b>          | Antennessa (SN:SN41_05_SAM29)            |
| <b>Liquid</b>           | Antennessa                               |

## C. SAR Measurement Results

|   |            |
|---|------------|
| <b>Frequency (MHz)</b>                        | 836.600204 |
| <b>Relative permittivity (real part)</b>      | 55.512310  |
| <b>Relative permittivity (imaginary part)</b> | 21.833210  |
| <b>Conductivity (S/m)</b>                     | 0.923925   |
| <b>Variation (%)</b>                          | -1.100000  |



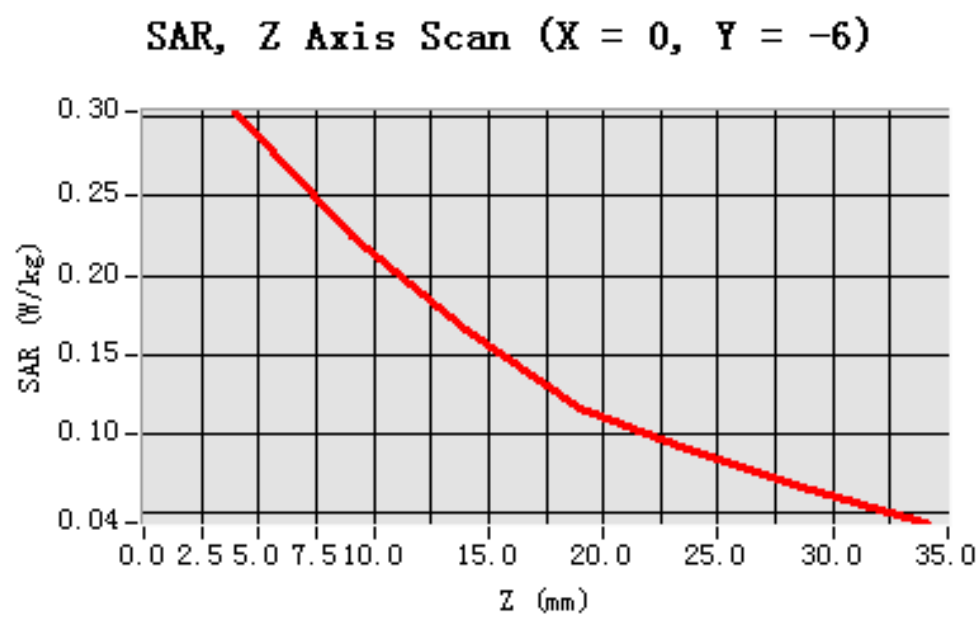
---

**Maximum location: X=0.00, Y=-6.00**

|                      |          |
|----------------------|----------|
| <b>SAR 1g (W/Kg)</b> | 0.308000 |
|----------------------|----------|

---

## Z Axis Scan





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## MEASUREMENT 3

Type: Phone measurement (Complete)

Date of measurement: 13/5/2010

Measurement duration: 14 minutes 29 seconds

Mobile Phone IMEI number:

### **A. Experimental conditions.**

|                        |                                   |
|------------------------|-----------------------------------|
| <b>Phantom File</b>    | surf_sam_plan.txt, Adaptive 2 max |
| <b>Phantom</b>         | Validation plane                  |
| <b>Device Position</b> | Body                              |
| <b>Band</b>            | GSM850                            |
| <b>Channels</b>        | High                              |
| <b>Signal</b>          | GSM                               |

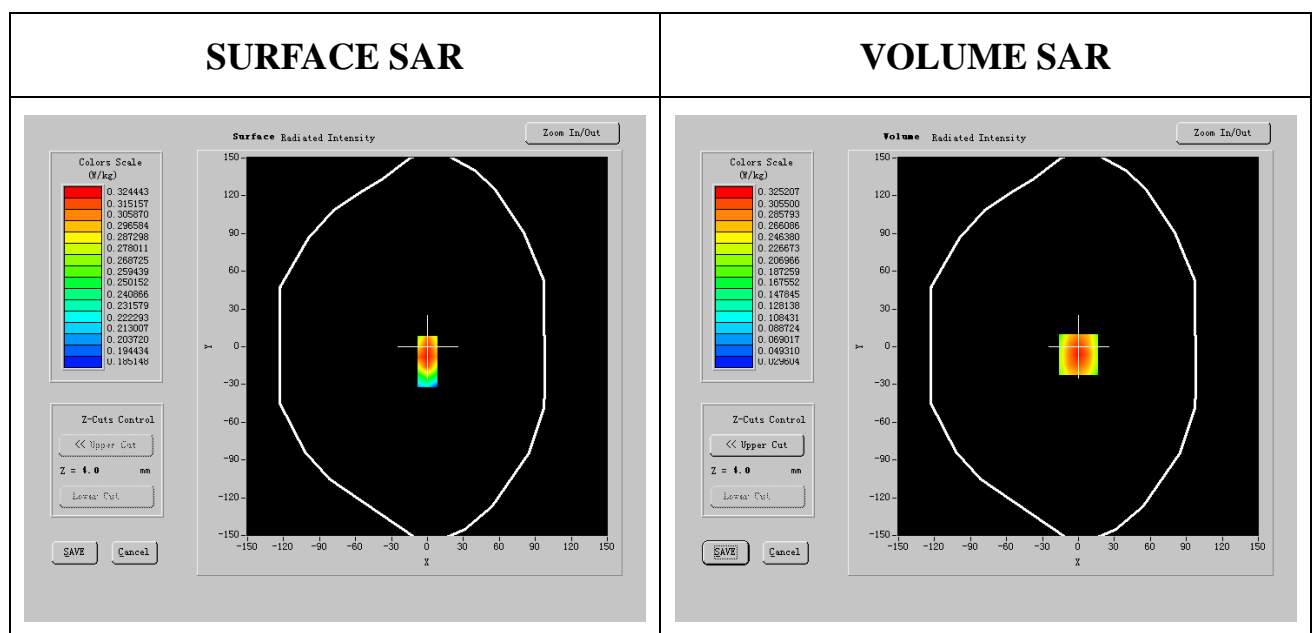
### **B. Instrumentations.**

---

|                         |  |
|-------------------------|--|
| <b>PC</b>               | HP (Pentium(R) V 3.06GHz, SN:375052-AA1) |
| <b>Network Emulator</b> | R&S (CMU200, SN:B23-03291)               |
| <b>Voltmeter</b>        | Keithley (2000, SN:1015843)              |
| <b>Synthesizer</b>      | Agilent (E8257C, SN:MY43321570)          |
| <b>Amplifier</b>        | Mini-Circuits (ZHL-42, SN:110405)        |
| <b>Power Meter</b>      | Agilent (E4416A, SN:QB41292714)          |
| <b>Probe</b>            | Antennessa (SN:SN_1109_EP_100)           |
| <b>Phantom</b>          | Antennessa (SN:SN41_05_SAM29)            |
| <b>Liquid</b>           | Antennessa                               |

## C. SAR Measurement Results

|   |            |
|---|------------|
| <b>Frequency (MHz)</b>                        | 848.862406 |
| <b>Relative permittivity (real part)</b>      | 55.524000  |
| <b>Relative permittivity (imaginary part)</b> | 21.702101  |
| <b>Conductivity (S/m)</b>                     | 0.963200   |
| <b>Variation (%)</b>                          | -1.310000  |



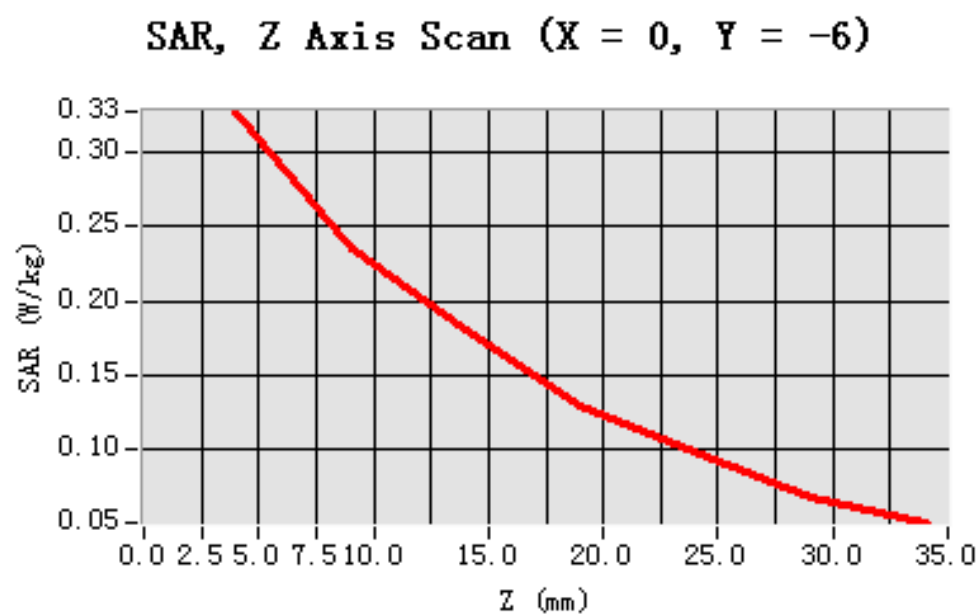
---

**Maximum location: X=0.00, Y=-6.00**

|                      |          |
|----------------------|----------|
| <b>SAR 1g (W/Kg)</b> | 0.311339 |
|----------------------|----------|

---

## Z Axis Scan



---

# Face down with earphone

## MEASUREMENT 1

Type: Phone measurement (Complete)

Date of measurement: 13/5/2010

Measurement duration: 14 minutes 29 seconds

Mobile Phone IMEI number:

### **A. Experimental conditions.**

|                        |                                   |
|------------------------|-----------------------------------|
| <b>Phantom File</b>    | surf_sam_plan.txt, Adaptive 2 max |
| <b>Phantom</b>         | Validation plane                  |
| <b>Device Position</b> | Body                              |
| <b>Band</b>            | GSM850                            |
| <b>Channels</b>        | Low                               |
| <b>Signal</b>          | GSM                               |

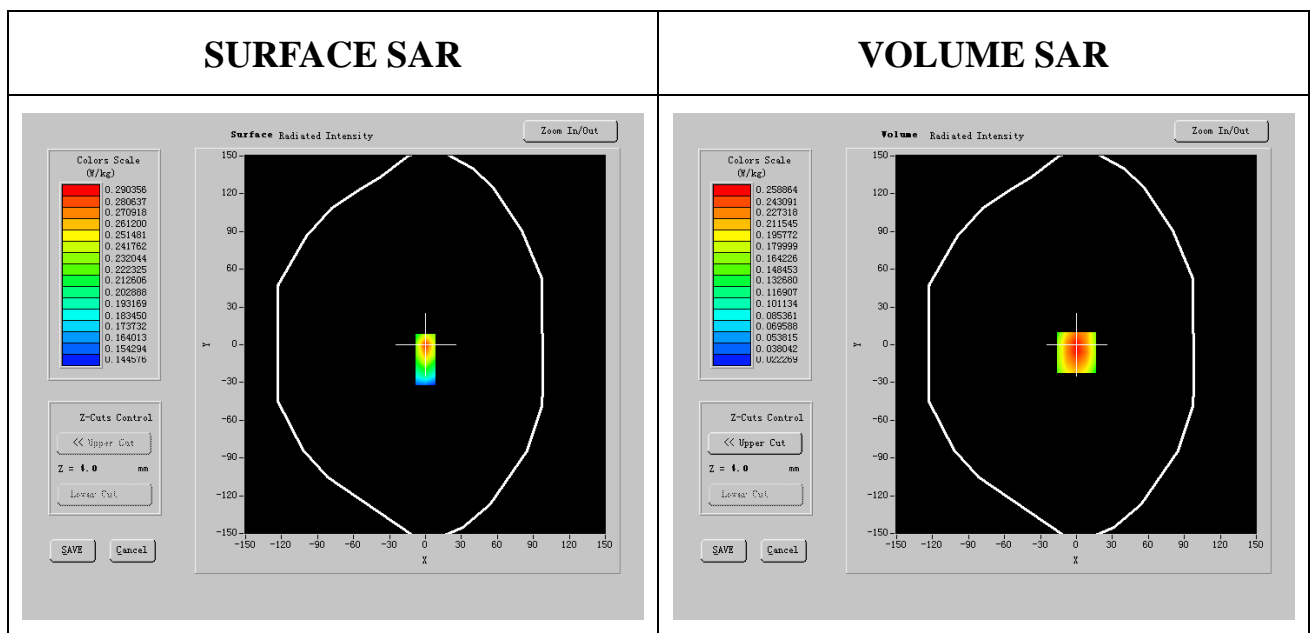
### **B. Instrumentations.**

---

|                         |  |
|-------------------------|--|
| <b>PC</b>               | HP (Pentium(R) V 3.06GHz, SN:375052-AA1) |
| <b>Network Emulator</b> | R&S (CMU200, SN:B23-03291)               |
| <b>Voltmeter</b>        | Keithley (2000, SN:1015843)              |
| <b>Synthesizer</b>      | Agilent (E8257C, SN:MY43321570)          |
| <b>Amplifier</b>        | Mini-Circuits (ZHL-42, SN:110405)        |
| <b>Power Meter</b>      | Agilent (E4416A, SN:QB41292714)          |
| <b>Probe</b>            | Antennessa (SN:SN_1109_EP_100)           |
| <b>Phantom</b>          | Antennessa (SN:SN41_05_SAM29)            |
| <b>Liquid</b>           | Antennessa                               |

## C. SAR Measurement Results

|   |            |
|---|------------|
| <b>Frequency (MHz)</b>                        | 824.200012 |
| <b>Relative permittivity (real part)</b>      | 55.875730  |
| <b>Relative permittivity (imaginary part)</b> | 21.121350  |
| <b>Conductivity (S/m)</b>                     | 0.989319   |
| <b>Variation (%)</b>                          | -1.000000  |





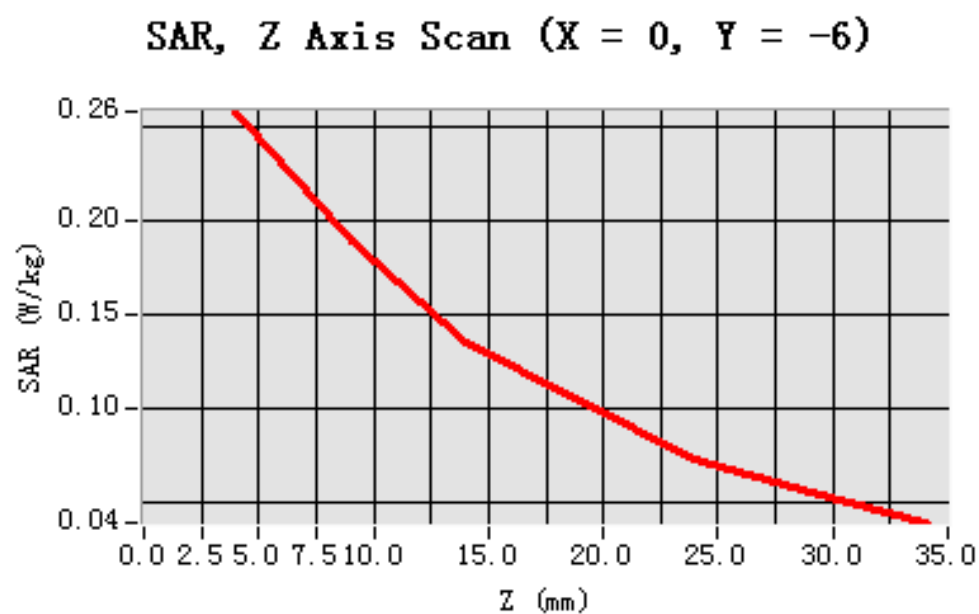
---

**Maximum location: X=0.00, Y=-6.00**

|                      |          |
|----------------------|----------|
| <b>SAR 1g (W/Kg)</b> | 0.284918 |
|----------------------|----------|

---

## Z Axis Scan



---

## MEASUREMENT 2

Type: Phone measurement (Complete)

Date of measurement: 13/5/2010

Measurement duration: 14 minutes 29 seconds

Mobile Phone IMEI number:

### **A. Experimental conditions.**

|                        |                                   |
|------------------------|-----------------------------------|
| <b>Phantom File</b>    | surf_sam_plan.txt, Adaptive 2 max |
| <b>Phantom</b>         | Validation plane                  |
| <b>Device Position</b> | Body                              |
| <b>Band</b>            | GSM850                            |
| <b>Channels</b>        | Middle                            |
| <b>Signal</b>          | GSM                               |

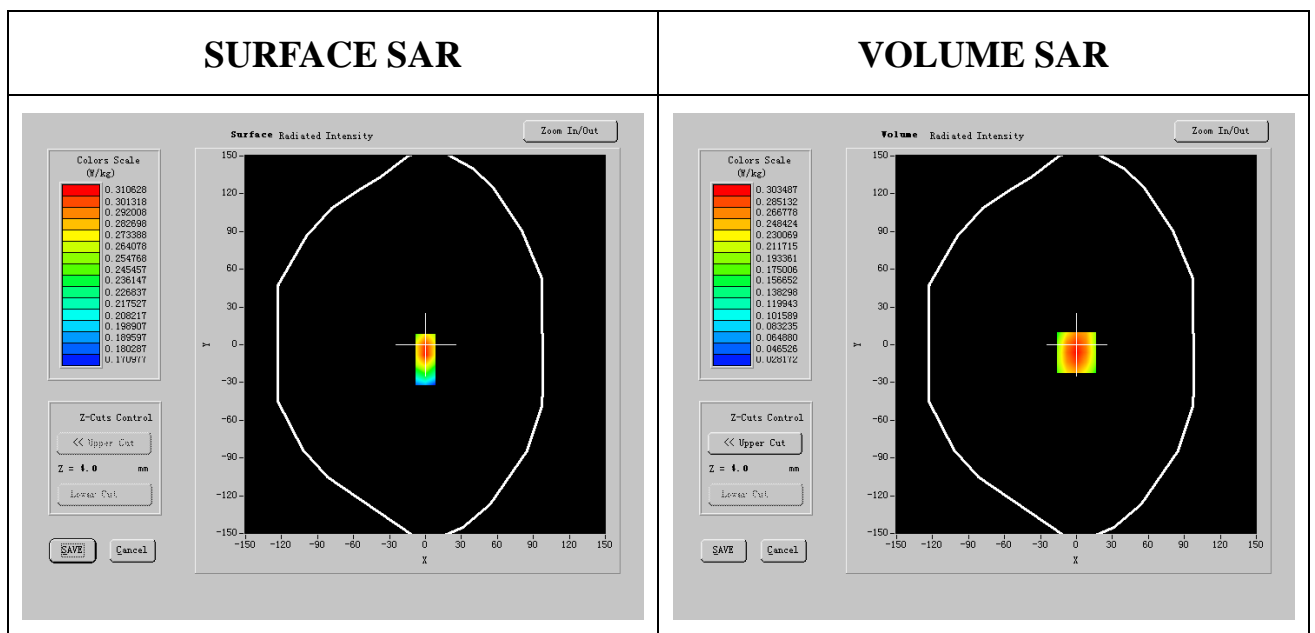
---

## **B. Instrumentations.**

|                         |  |
|-------------------------|--|
| <b>PC</b>               | HP (Pentium(R) V 3.06GHz, SN:375052-AA1) |
| <b>Network Emulator</b> | R&S (CMU200, SN:B23-03291)               |
| <b>Voltmeter</b>        | Keithley (2000, SN:1015843)              |
| <b>Synthesizer</b>      | Agilent (E8257C, SN:MY43321570)          |
| <b>Amplifier</b>        | Mini-Circuits (ZHL-42, SN:110405)        |
| <b>Power Meter</b>      | Agilent (E4416A, SN:QB41292714)          |
| <b>Probe</b>            | Antennessa (SN:SN_1109_EP_100)           |
| <b>Phantom</b>          | Antennessa (SN:SN41_05_SAM29)            |
| <b>Liquid</b>           | Antennessa                               |

## C. SAR Measurement Results

|   |            |
|---|------------|
| <b>Frequency (MHz)</b>                        | 836.400024 |
| <b>Relative permittivity (real part)</b>      | 55.901209  |
| <b>Relative permittivity (imaginary part)</b> | 21.236149  |
| <b>Conductivity (S/m)</b>                     | 0.989152   |
| <b>Variation (%)</b>                          | -0.120000  |



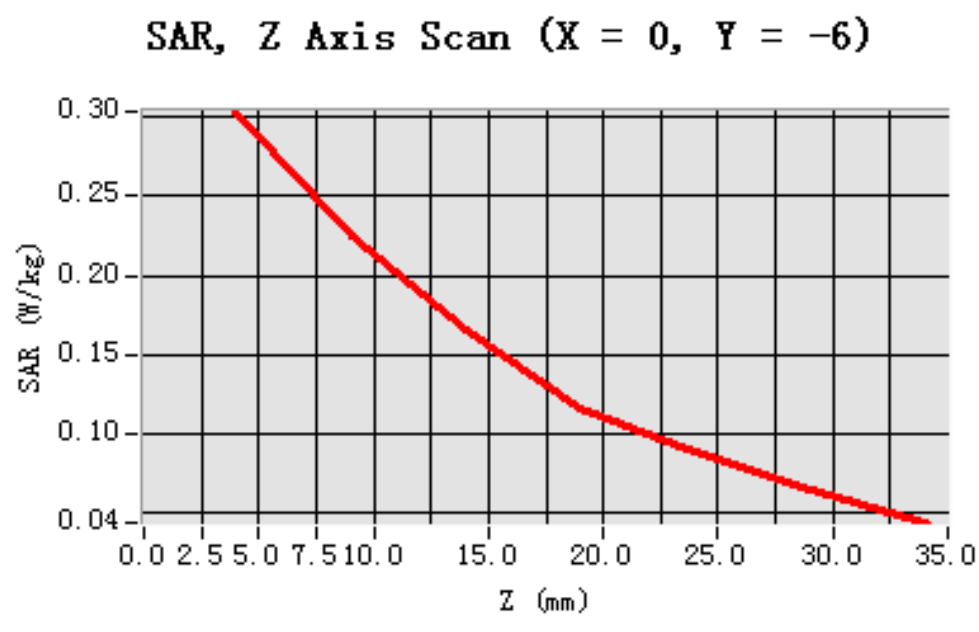
---

**Maximum location: X=0.00, Y=-6.00**

|                      |          |
|----------------------|----------|
| <b>SAR 1g (W/Kg)</b> | 0.221341 |
|----------------------|----------|

---

### Z Axis Scan



---

## MEASUREMENT 3

Type: Phone measurement (Complete)

Date of measurement: 13/5/2010

Measurement duration: 14 minutes 29 seconds

Mobile Phone IMEI number:

### **A. Experimental conditions.**

|                        |                                   |
|------------------------|-----------------------------------|
| <b>Phantom File</b>    | surf_sam_plan.txt, Adaptive 2 max |
| <b>Phantom</b>         | Validation plane                  |
| <b>Device Position</b> | Body                              |
| <b>Band</b>            | GSM850                            |
| <b>Channels</b>        | High                              |
| <b>Signal</b>          | GSM                               |

### **B. Instrumentations.**

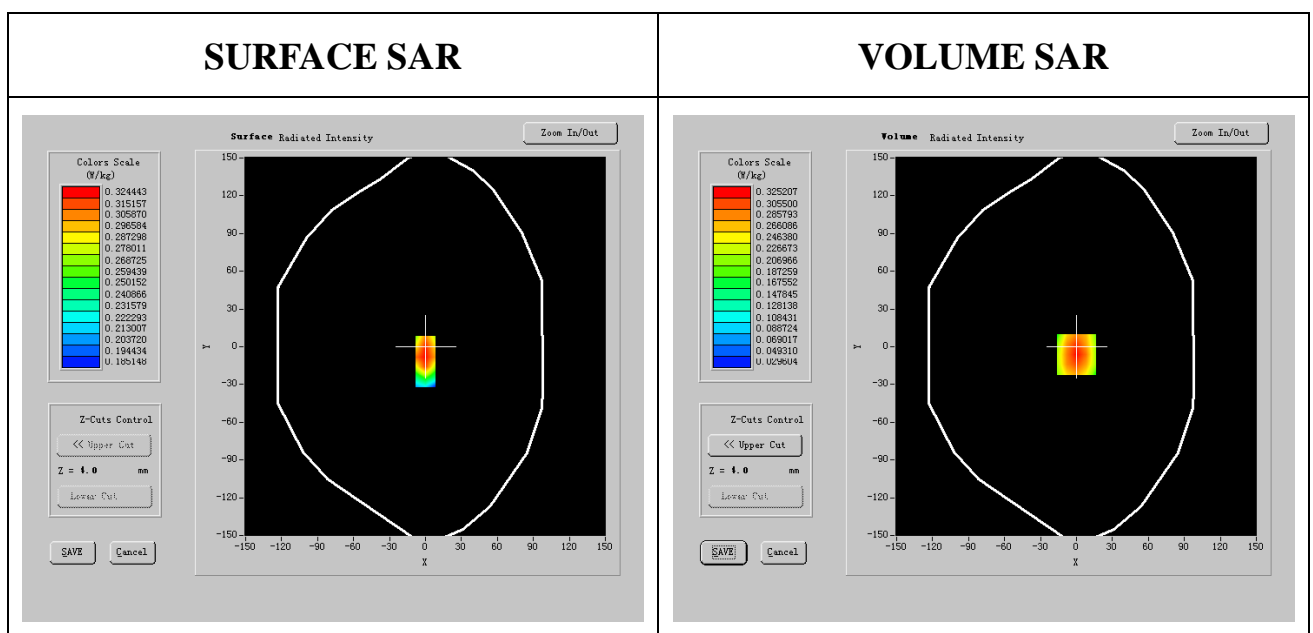


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|                         |  |
|-------------------------|--|
| <b>PC</b>               | HP (Pentium(R) V 3.06GHz, SN:375052-AA1) |
| <b>Network Emulator</b> | R&S (CMU200, SN:B23-03291)               |
| <b>Voltmeter</b>        | Keithley (2000, SN:1015843)              |
| <b>Synthesizer</b>      | Agilent (E8257C, SN:MY43321570)          |
| <b>Amplifier</b>        | Mini-Circuits (ZHL-42, SN:110405)        |
| <b>Power Meter</b>      | Agilent (E4416A, SN:QB41292714)          |
| <b>Probe</b>            | Antennessa (SN:SN_1109_EP_100)           |
| <b>Phantom</b>          | Antennessa (SN:SN41_05_SAM29)            |
| <b>Liquid</b>           | Antennessa                               |

## C. SAR Measurement Results

|   |            |
|---|------------|
| <b>Frequency (MHz)</b>                        | 848.599976 |
| <b>Relative permittivity (real part)</b>      | 55.896242  |
| <b>Relative permittivity (imaginary part)</b> | 21.215131  |
| <b>Conductivity (S/m)</b>                     | 0.989258   |
| <b>Variation (%)</b>                          | -0.200000  |



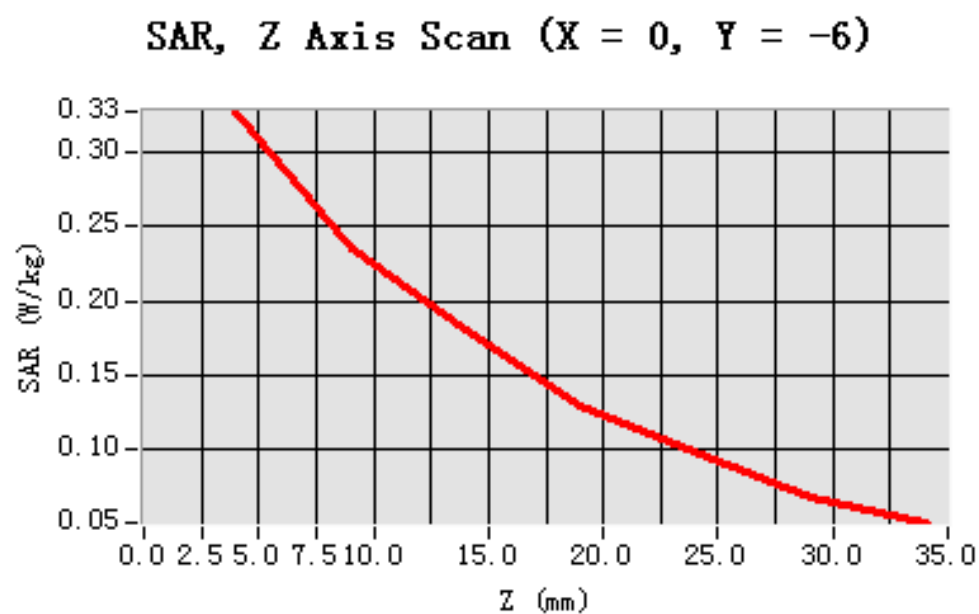
---

**Maximum location: X=0.00, Y=-6.00**

|                      |          |
|----------------------|----------|
| <b>SAR 1g (W/Kg)</b> | 0.330282 |
|----------------------|----------|

---

## Z Axis Scan



---

# Face up without earphone

## MEASUREMENT 1

Type: Phone measurement (Complete)

Date of measurement: 13/5/2010

Measurement duration: 14 minutes 29 seconds

Mobile Phone IMEI number:

### **A. Experimental conditions.**

|                        |                                     |
|------------------------|-------------------------------------|
| <b>Phantom File</b>    | surf_sam_plan.txt, Adaptative 2 max |
| <b>Phantom</b>         | Validation plane                    |
| <b>Device Position</b> | Body                                |
| <b>Band</b>            | GSM850                              |
| <b>Channels</b>        | Low                                 |
| <b>Signal</b>          | GSM                                 |

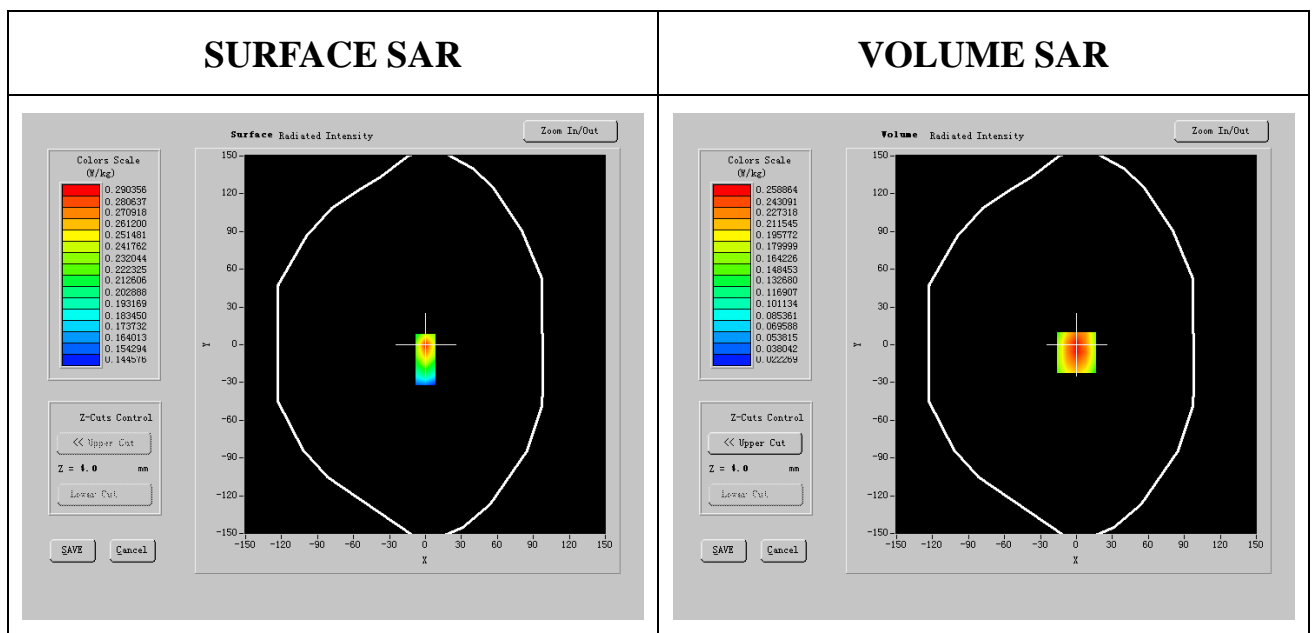
### **B. Instrumentations.**

---

|                         |  |
|-------------------------|--|
| <b>PC</b>               | HP (Pentium(R) V 3.06GHz, SN:375052-AA1) |
| <b>Network Emulator</b> | R&S (CMU200, SN:B23-03291)               |
| <b>Voltmeter</b>        | Keithley (2000, SN:1015843)              |
| <b>Synthesizer</b>      | Agilent (E8257C, SN:MY43321570)          |
| <b>Amplifier</b>        | Mini-Circuits (ZHL-42, SN:110405)        |
| <b>Power Meter</b>      | Agilent (E4416A, SN:QB41292714)          |
| <b>Probe</b>            | Antennessa (SN:SN_1109_EP_100)           |
| <b>Phantom</b>          | Antennessa (SN:SN41_05_SAM29)            |
| <b>Liquid</b>           | Antennessa                               |

## C. SAR Measurement Results

|   |            |
|---|------------|
| <b>Frequency (MHz)</b>                        | 824.200012 |
| <b>Relative permittivity (real part)</b>      | 55.875730  |
| <b>Relative permittivity (imaginary part)</b> | 21.121350  |
| <b>Conductivity (S/m)</b>                     | 0.989319   |
| <b>Variation (%)</b>                          | -1.000000  |



---

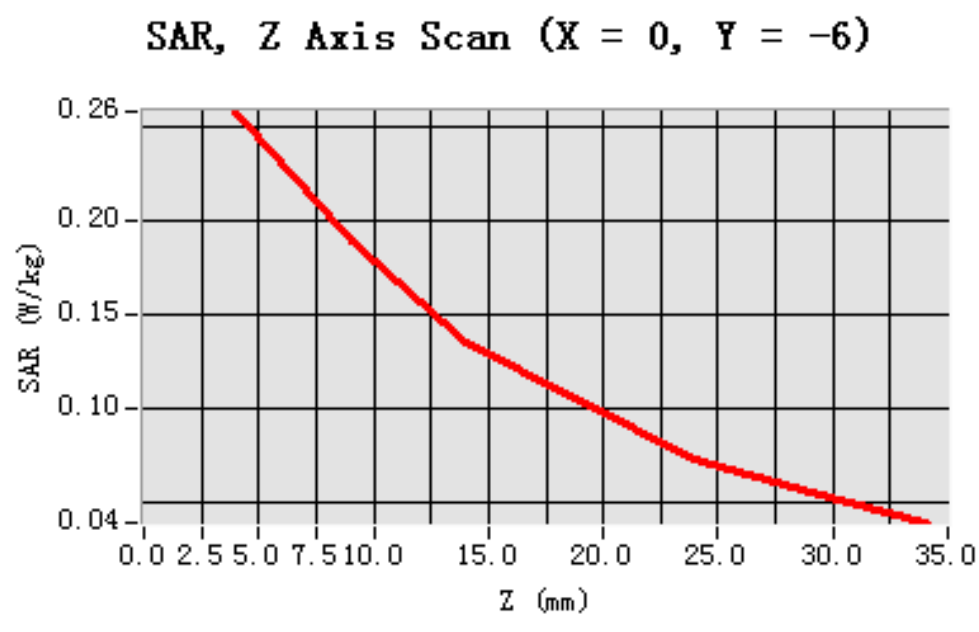
**Maximum location: X=0.00, Y=-6.00**

|                      |          |
|----------------------|----------|
| <b>SAR 1g (W/Kg)</b> | 0.288064 |
|----------------------|----------|



---

## Z Axis Scan



---

## MEASUREMENT 2

Type: Phone measurement (Complete)

Date of measurement: 13/5/2010

Measurement duration: 14 minutes 29 seconds

Mobile Phone IMEI number:

### **A. Experimental conditions.**

|                        |                                   |
|------------------------|-----------------------------------|
| <b>Phantom File</b>    | surf_sam_plan.txt, Adaptive 2 max |
| <b>Phantom</b>         | Validation plane                  |
| <b>Device Position</b> | Body                              |
| <b>Band</b>            | GSM850                            |
| <b>Channels</b>        | Middle                            |
| <b>Signal</b>          | GSM                               |

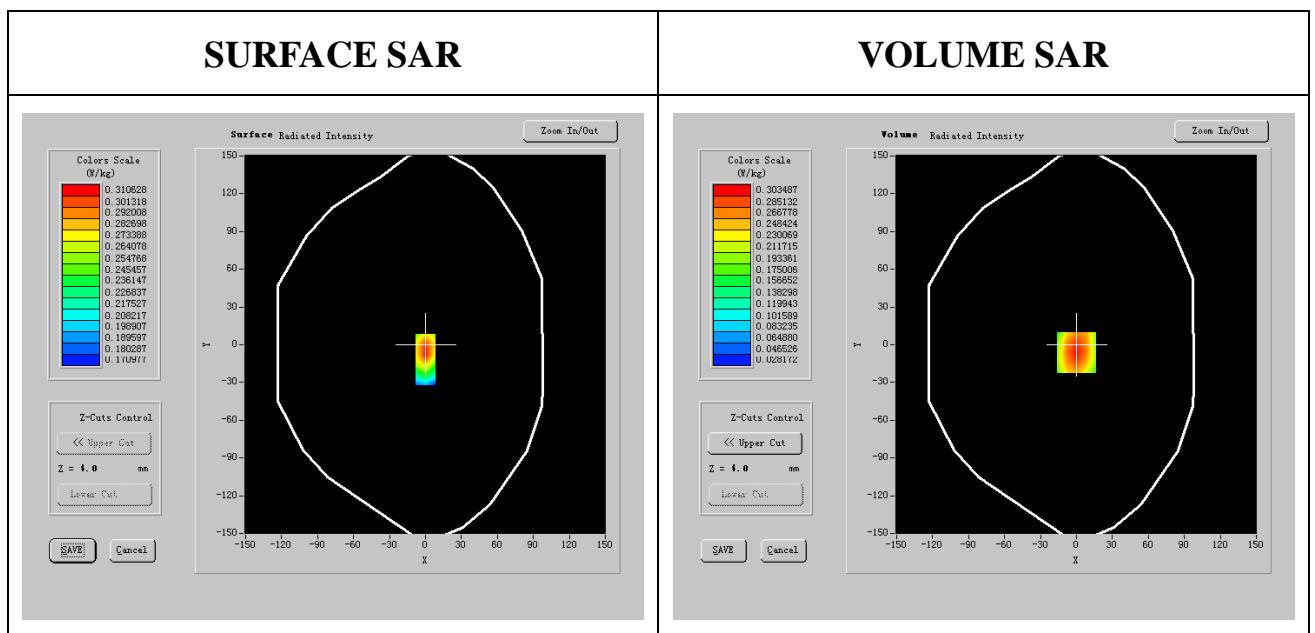
---

## **B. Instrumentations.**

|                         |  |
|-------------------------|--|
| <b>PC</b>               | HP (Pentium(R) V 3.06GHz, SN:375052-AA1) |
| <b>Network Emulator</b> | R&S (CMU200, SN:B23-03291)               |
| <b>Voltmeter</b>        | Keithley (2000, SN:1015843)              |
| <b>Synthesizer</b>      | Agilent (E8257C, SN:MY43321570)          |
| <b>Amplifier</b>        | Mini-Circuits (ZHL-42, SN:110405)        |
| <b>Power Meter</b>      | Agilent (E4416A, SN:QB41292714)          |
| <b>Probe</b>            | Antennessa (SN:SN_1109_EP_100)           |
| <b>Phantom</b>          | Antennessa (SN:SN41_05_SAM29)            |
| <b>Liquid</b>           | Antennessa                               |

## C. SAR Measurement Results

|   |            |
|---|------------|
| <b>Frequency (MHz)</b>                        | 836.400024 |
| <b>Relative permittivity (real part)</b>      | 55.901209  |
| <b>Relative permittivity (imaginary part)</b> | 21.236149  |
| <b>Conductivity (S/m)</b>                     | 0.989152   |
| <b>Variation (%)</b>                          | -0.120000  |



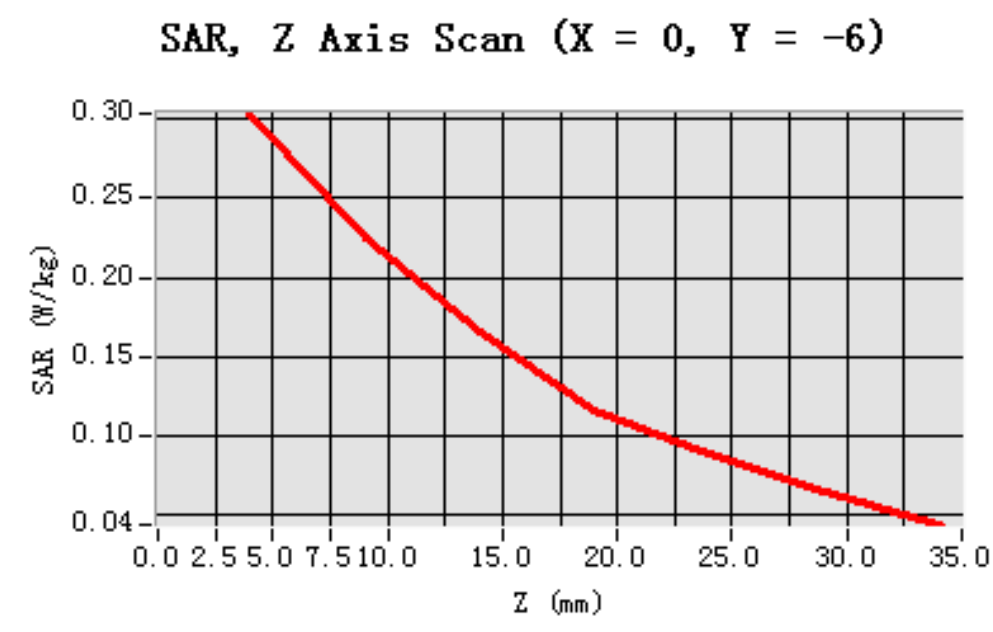
---

**Maximum location: X=0.00, Y=-6.00**

|                      |          |
|----------------------|----------|
| <b>SAR 1g (W/Kg)</b> | 0.223341 |
|----------------------|----------|

---

## Z Axis Scan



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## MEASUREMENT 3

Type: Phone measurement (Complete)

Date of measurement: 13/5/2010

Measurement duration: 14 minutes 29 seconds

Mobile Phone IMEI number:

### **A. Experimental conditions.**

|                        |                                   |
|------------------------|-----------------------------------|
| <b>Phantom File</b>    | surf_sam_plan.txt, Adaptive 2 max |
| <b>Phantom</b>         | Validation plane                  |
| <b>Device Position</b> | Body                              |
| <b>Band</b>            | GSM850                            |
| <b>Channels</b>        | High                              |
| <b>Signal</b>          | GSM                               |

### **B. Instrumentations.**

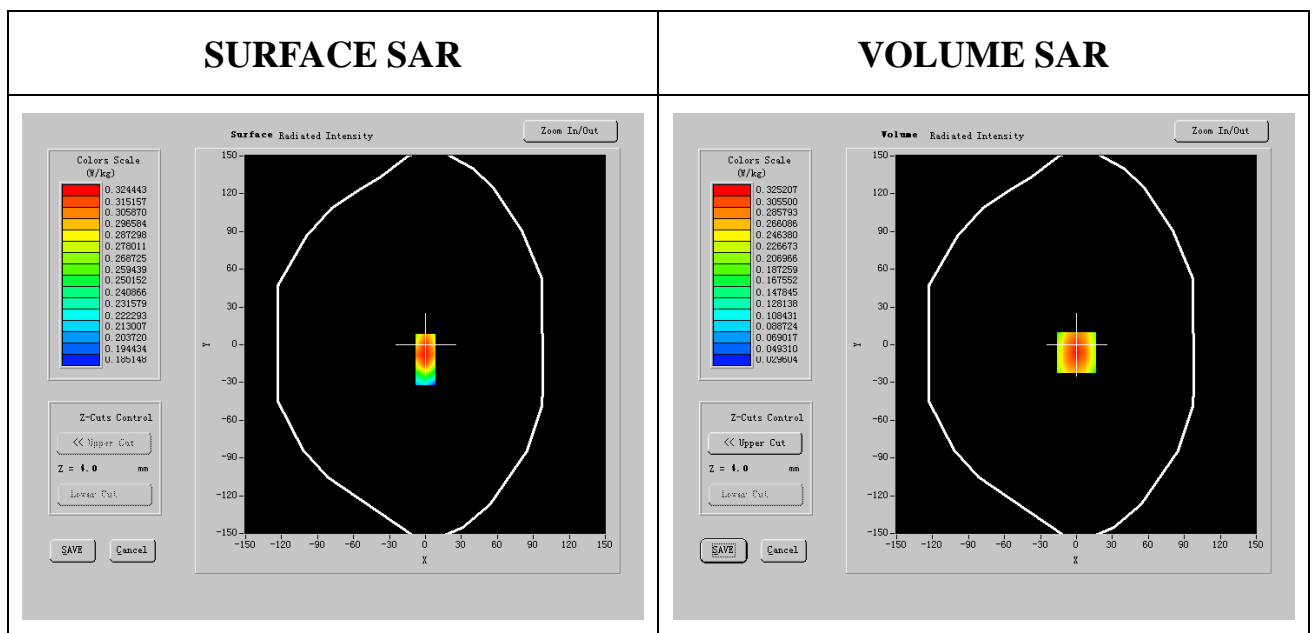
---

|                         |  |
|-------------------------|--|
| <b>PC</b>               | HP (Pentium(R) V 3.06GHz, SN:375052-AA1) |
| <b>Network Emulator</b> | R&S (CMU200, SN:B23-03291)               |
| <b>Voltmeter</b>        | Keithley (2000, SN:1015843)              |
| <b>Synthesizer</b>      | Agilent (E8257C, SN:MY43321570)          |
| <b>Amplifier</b>        | Mini-Circuits (ZHL-42, SN:110405)        |
| <b>Power Meter</b>      | Agilent (E4416A, SN:QB41292714)          |
| <b>Probe</b>            | Antennessa (SN:SN_1109_EP_100)           |
| <b>Phantom</b>          | Antennessa (SN:SN41_05_SAM29)            |
| <b>Liquid</b>           | Antennessa                               |



## C. SAR Measurement Results

|   |            |
|---|------------|
| <b>Frequency (MHz)</b>                        | 848.599976 |
| <b>Relative permittivity (real part)</b>      | 55.896242  |
| <b>Relative permittivity (imaginary part)</b> | 21.215131  |
| <b>Conductivity (S/m)</b>                     | 0.989258   |
| <b>Variation (%)</b>                          | -0.200000  |



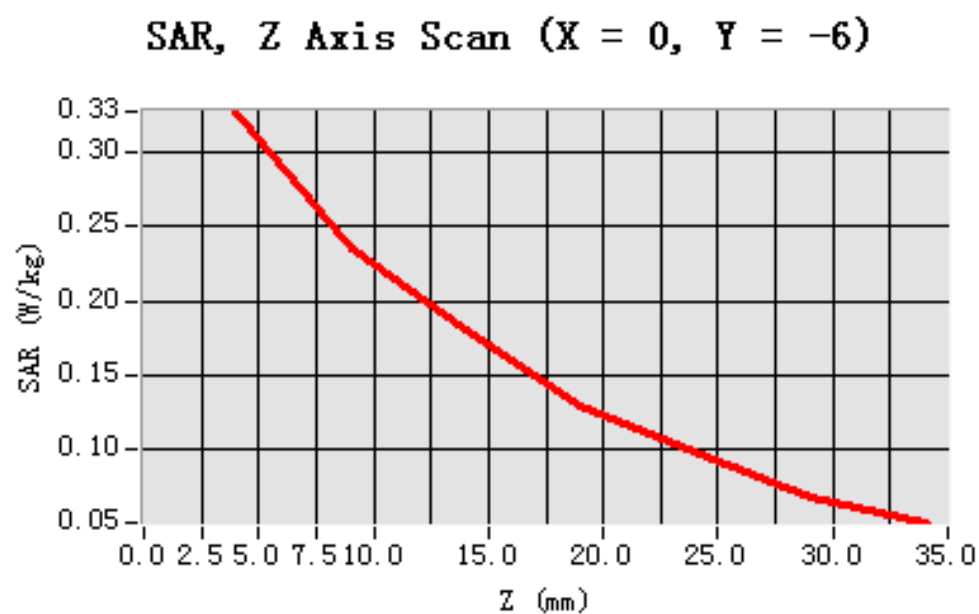
---

**Maximum location: X=0.00, Y=-6.00**

|                      |          |
|----------------------|----------|
| <b>SAR 1g (W/Kg)</b> | 0.333282 |
|----------------------|----------|

---

## Z Axis Scan



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# Face down without earphone

## MEASUREMENT 1

Type: Phone measurement (Complete)

Date of measurement: 13/5/2010

Measurement duration: 14 minutes 29 seconds

Mobile Phone IMEI number:

### **A. Experimental conditions.**

|                        |                                   |
|------------------------|-----------------------------------|
| <b>Phantom File</b>    | surf_sam_plan.txt, Adaptive 2 max |
| <b>Phantom</b>         | Validation plane                  |
| <b>Device Position</b> | Body                              |
| <b>Band</b>            | GSM850                            |
| <b>Channels</b>        | Low                               |
| <b>Signal</b>          | GSM                               |

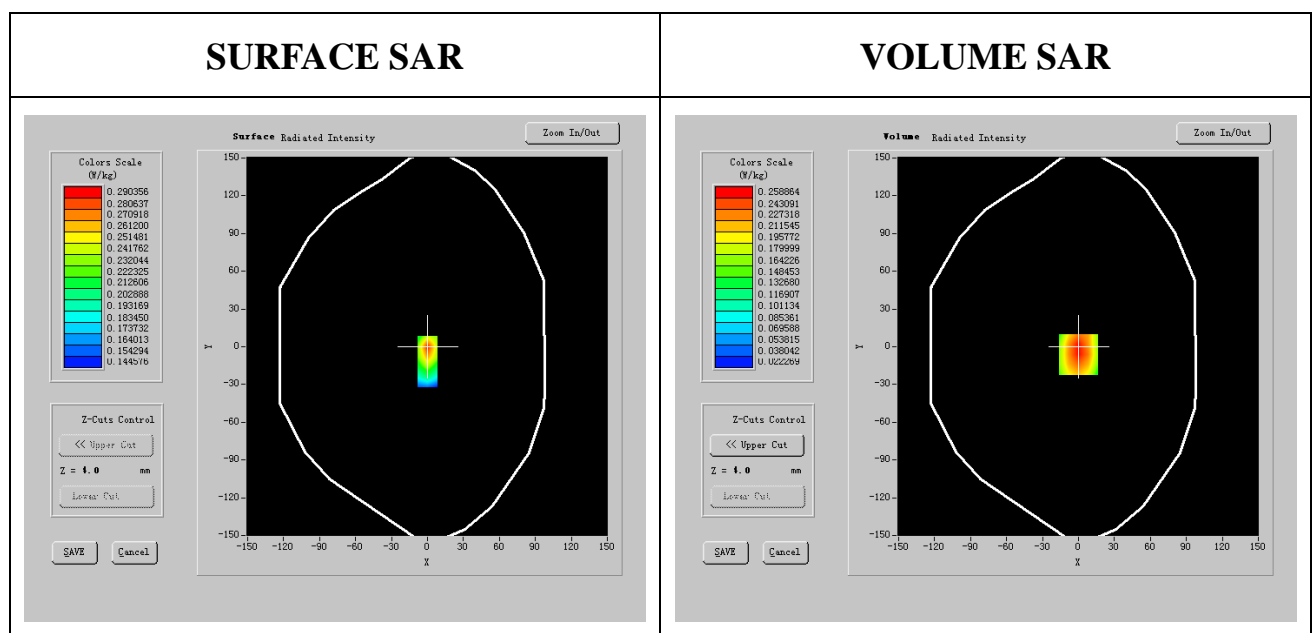
### **B. Instrumentations.**

---

|                         |  |
|-------------------------|--|
| <b>PC</b>               | HP (Pentium(R) V 3.06GHz, SN:375052-AA1) |
| <b>Network Emulator</b> | R&S (CMU200, SN:B23-03291)               |
| <b>Voltmeter</b>        | Keithley (2000, SN:1015843)              |
| <b>Synthesizer</b>      | Agilent (E8257C, SN:MY43321570)          |
| <b>Amplifier</b>        | Mini-Circuits (ZHL-42, SN:110405)        |
| <b>Power Meter</b>      | Agilent (E4416A, SN:QB41292714)          |
| <b>Probe</b>            | Antennessa (SN:SN_1109_EP_100)           |
| <b>Phantom</b>          | Antennessa (SN:SN41_05_SAM29)            |
| <b>Liquid</b>           | Antennessa                               |

## C. SAR Measurement Results

|   |            |
|---|------------|
| <b>Frequency (MHz)</b>                        | 824.200012 |
| <b>Relative permittivity (real part)</b>      | 55.892130  |
| <b>Relative permittivity (imaginary part)</b> | 21.223660  |
| <b>Conductivity (S/m)</b>                     | 0.990119   |
| <b>Variation (%)</b>                          | -1.200000  |



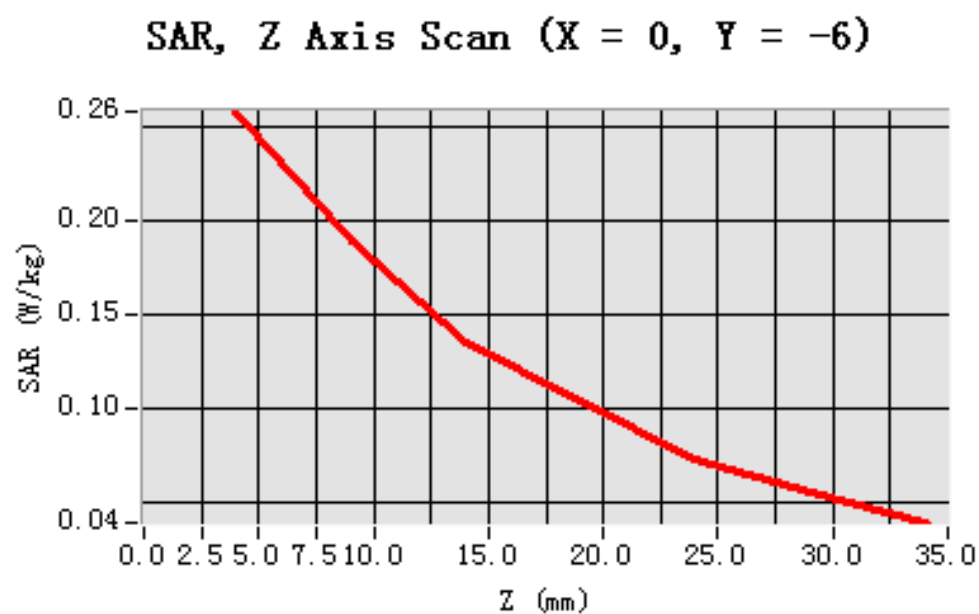
---

**Maximum location: X=0.00, Y=-6.00**

|                      |          |
|----------------------|----------|
| <b>SAR 1g (W/Kg)</b> | 0.279235 |
|----------------------|----------|

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## Z Axis Scan





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## MEASUREMENT 2

Type: Phone measurement (Complete)

Date of measurement: 13/5/2010

Measurement duration: 14 minutes 29 seconds

Mobile Phone IMEI number:

### **A. Experimental conditions.**

|                        |                                   |
|------------------------|-----------------------------------|
| <b>Phantom File</b>    | surf_sam_plan.txt, Adaptive 2 max |
| <b>Phantom</b>         | Validation plane                  |
| <b>Device Position</b> | Body                              |
| <b>Band</b>            | GSM850                            |
| <b>Channels</b>        | Middle                            |
| <b>Signal</b>          | GSM                               |

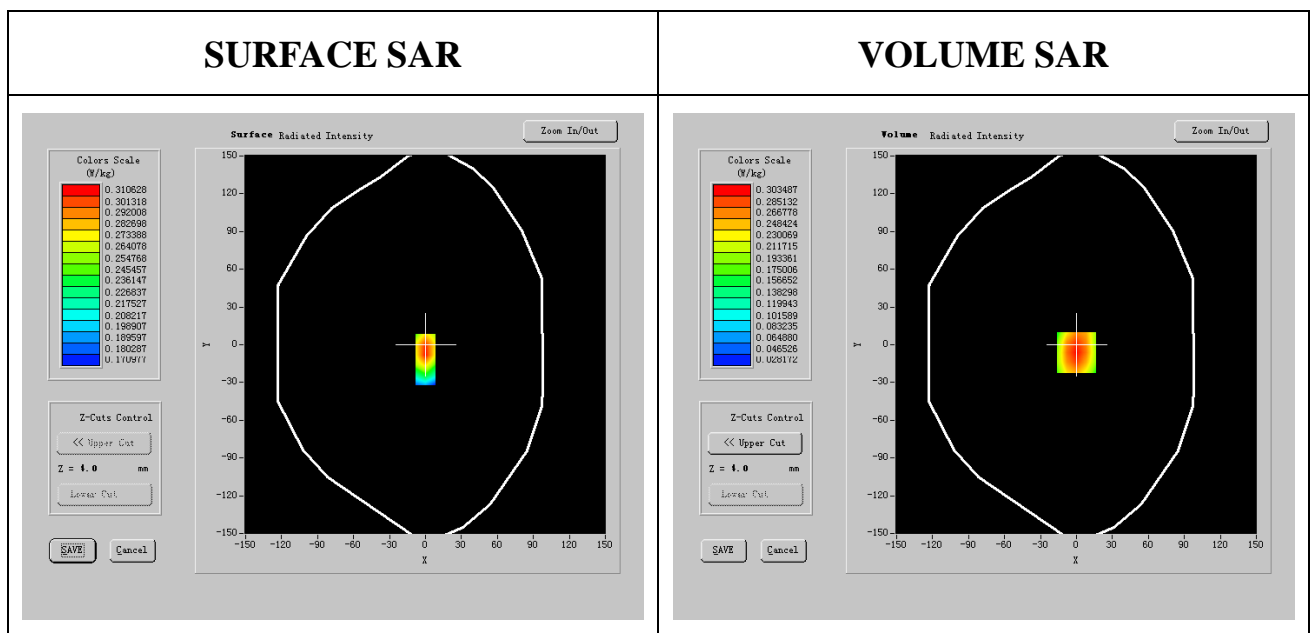
---

## **B. Instrumentations.**

|                         |  |
|-------------------------|--|
| <b>PC</b>               | HP (Pentium(R) V 3.06GHz, SN:375052-AA1) |
| <b>Network Emulator</b> | R&S (CMU200, SN:B23-03291)               |
| <b>Voltmeter</b>        | Keithley (2000, SN:1015843)              |
| <b>Synthetizer</b>      | Agilent (E8257C, SN:MY43321570)          |
| <b>Amplifier</b>        | Mini-Circuits (ZHL-42, SN:110405)        |
| <b>Power Meter</b>      | Agilent (E4416A, SN:QB41292714)          |
| <b>Probe</b>            | Antennessa (SN:SN_1109_EP_100)           |
| <b>Phantom</b>          | Antennessa (SN:SN41_05_SAM29)            |
| <b>Liquid</b>           | Antennessa                               |

## C. SAR Measurement Results

|   |            |
|---|------------|
| <b>Frequency (MHz)</b>                        | 836.400024 |
| <b>Relative permittivity (real part)</b>      | 55.896233  |
| <b>Relative permittivity (imaginary part)</b> | 21.236179  |
| <b>Conductivity (S/m)</b>                     | 0.979356   |
| <b>Variation (%)</b>                          | -0.200000  |



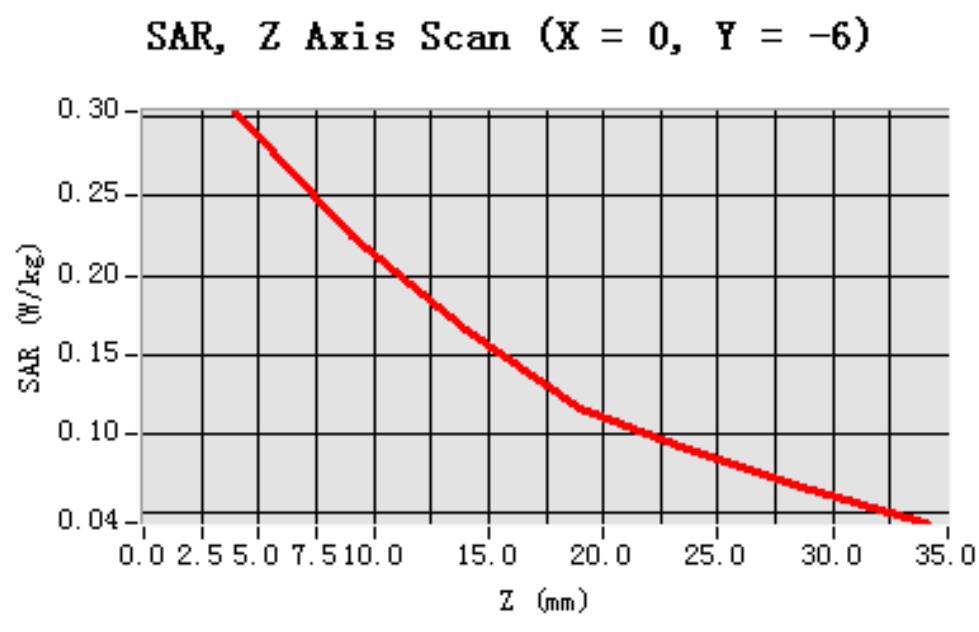
---

**Maximum location: X=0.00, Y=-6.00**

|                      |          |
|----------------------|----------|
| <b>SAR 1g (W/Kg)</b> | 0.228134 |
|----------------------|----------|

---

### Z Axis Scan



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## MEASUREMENT 3

Type: Phone measurement (Complete)

Date of measurement: 13/5/2010

Measurement duration: 14 minutes 29 seconds

Mobile Phone IMEI number:

### **A. Experimental conditions.**

|                        |                                   |
|------------------------|-----------------------------------|
| <b>Phantom File</b>    | surf_sam_plan.txt, Adaptive 2 max |
| <b>Phantom</b>         | Validation plane                  |
| <b>Device Position</b> | Body                              |
| <b>Band</b>            | GSM850                            |
| <b>Channels</b>        | High                              |
| <b>Signal</b>          | GSM                               |

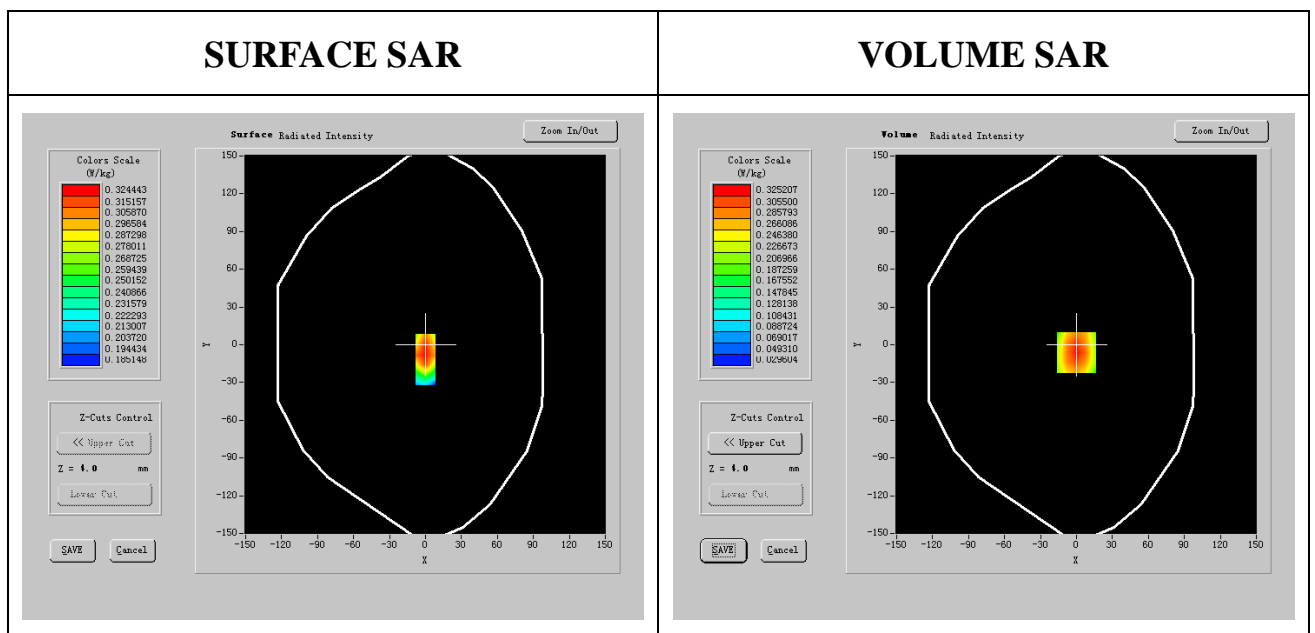
### **B. Instrumentations.**

---

|                         |  |
|-------------------------|--|
| <b>PC</b>               | HP (Pentium(R) V 3.06GHz, SN:375052-AA1) |
| <b>Network Emulator</b> | R&S (CMU200, SN:B23-03291)               |
| <b>Voltmeter</b>        | Keithley (2000, SN:1015843)              |
| <b>Synthesizer</b>      | Agilent (E8257C, SN:MY43321570)          |
| <b>Amplifier</b>        | Mini-Circuits (ZHL-42, SN:110405)        |
| <b>Power Meter</b>      | Agilent (E4416A, SN:QB41292714)          |
| <b>Probe</b>            | Antennessa (SN:SN_1109_EP_100)           |
| <b>Phantom</b>          | Antennessa (SN:SN41_05_SAM29)            |
| <b>Liquid</b>           | Antennessa                               |

## C. SAR Measurement Results

|   |            |
|---|------------|
| <b>Frequency (MHz)</b>                        | 848.599976 |
| <b>Relative permittivity (real part)</b>      | 55.932142  |
| <b>Relative permittivity (imaginary part)</b> | 21.236431  |
| <b>Conductivity (S/m)</b>                     | 0.959648   |
| <b>Variation (%)</b>                          | -1.000000  |





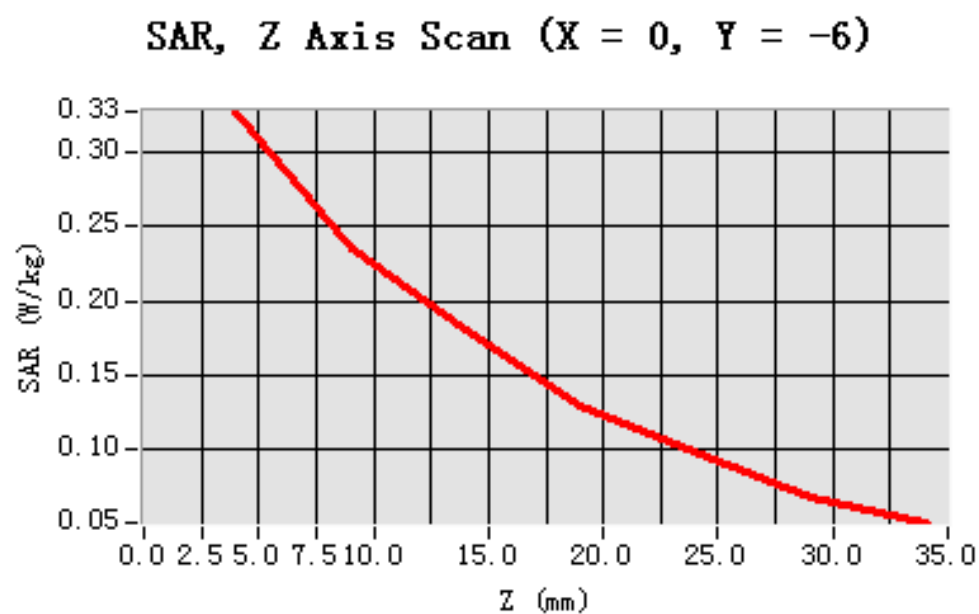
---

**Maximum location: X=0.00, Y=-6.00**

|                      |          |
|----------------------|----------|
| <b>SAR 1g (W/Kg)</b> | 0.336173 |
|----------------------|----------|

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## Z Axis Scan



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## GSM 1900

### I. RESULTS

| <u>TYPE</u>       | <u>BAND</u>    | <u>PARAMETERS</u>   |
|-------------------|----------------|---|
| <u>Noise</u>      | --             | --  |
| <u>Validation</u> | --             | --  |
| <u>Phone</u>      | <u>GSM1900</u> | <u>Measurement 1:</u> Right Head with Cheek device position on Low Channel in GSM mode<br><u>Measurement 2:</u> Right Head with Cheek device position on Middle Channel in GSM mode<br><u>Measurement 3:</u> Right Head with Cheek device position on High Channel in GSM mode<br><u>Measurement 4:</u> Right Head with Tilt device position on Low Channel in GSM mode<br><u>Measurement 5:</u> Right Head with Tilt device position on Middle Channel in GSM mode<br><u>Measurement 6:</u> Right Head with Tilt device position on High Channel in GSM mode<br><u>Measurement 7:</u> Left Head with Cheek device position on Low Channel in GSM mode<br><u>Measurement 8:</u> Left Head with Cheek device position on Middle Channel in GSM mode<br><u>Measurement 9:</u> Left Head with Cheek device position on High Channel in GSM mode<br><u>Measurement 10:</u> Left Head with Tilt device position on Low Channel in GSM mode<br><u>Measurement 11:</u> Left Head with Tilt device position on Middle Channel in GSM mode<br><u>Measurement 12:</u> Left Head with Tilt device position on High Channel in GSM mode |

---

## MEASUREMENT 1

Type: Phone measurement (Complete)

Date of measurement: 13/5/2010

Measurement duration: 15 minutes 3 seconds

Mobile Phone IMEI number: --

### **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                        |

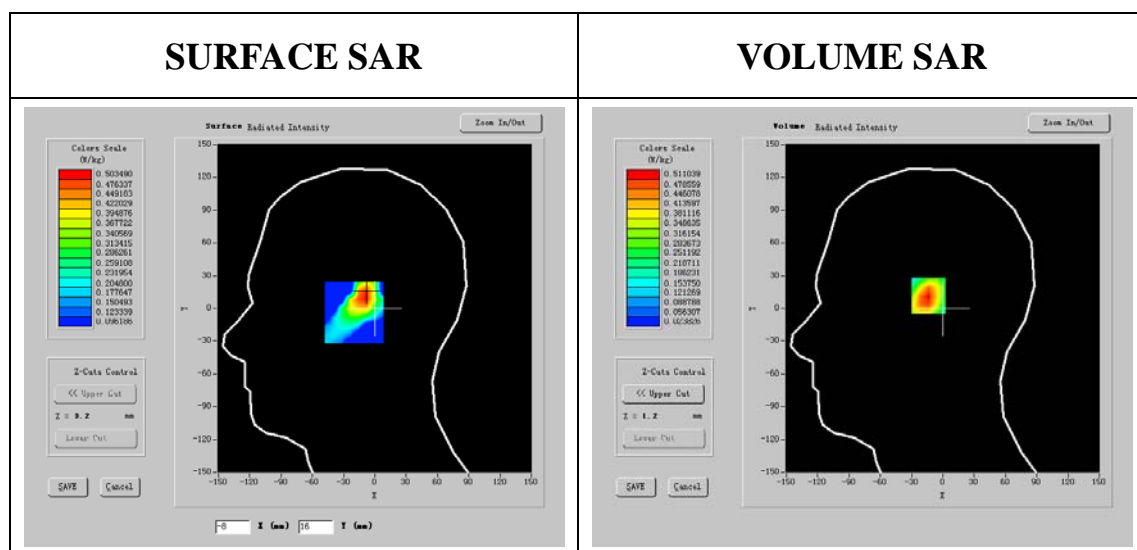
### **B. Instrumentations.**

---

|                         |   |
|-------------------------|---|
| <b>PC</b>               | HP (Pentium(R) V3.06GHz, SN:375052-AA1) |
| <b>Network Emulator</b> | R&S (CMU200, SN:B23-03291)              |
| <b>Voltmeter</b>        | Keithley (2000, SN:1015843)             |
| <b>Synthesizer</b>      | Agilent (E8257C, SN:MY43321570)         |
| <b>Amplifier</b>        | Mini-Circuits (ZHL-42, SN:110405)       |
| <b>Power Meter</b>      | Agilent (E4416A, SN:QB41292714)         |
| <b>Probe</b>            | Antennessa (SN:SN 11-09 EP100)          |
| <b>Phantom</b>          | Antennessa (SN:SN41_05_SAM29)           |
| <b>Liquid</b>           | Antennessa                              |

## C. SAR Measurement Results

|   |             |
|---|-------------|
| <b>Frequency (MHz)</b>                        | 1850.200024 |
| <b>Relative permittivity (real part)</b>      | 40.310200   |
| <b>Relative permittivity (imaginary part)</b> | 13.535200   |
| <b>Conductivity (S/m)</b>                     | 1.432218    |
| <b>Variation (%)</b>                          | -1.200000   |



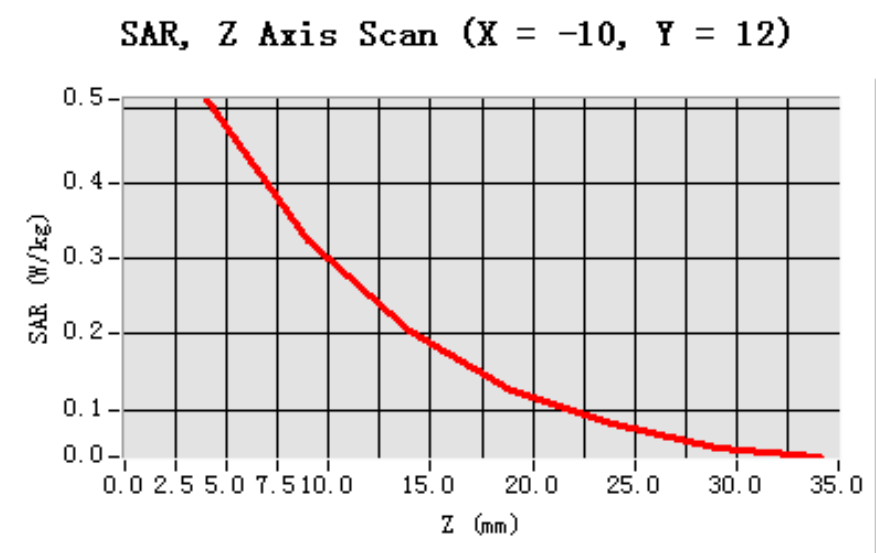
---

**Maximum location: X=-10.00, Y=12.00**

|                      |          |
|----------------------|----------|
| <b>SAR 1g (W/Kg)</b> | 0.488131 |
|----------------------|----------|

---

## Z Axis Scan





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## MEASUREMENT 2

Type: Phone measurement (Complete)

Date of measurement: 13/5/2010

Measurement duration: 15 minutes 3 seconds

Mobile Phone IMEI number: --

### **A. Experimental conditions.**

|                        |                              |
|------------------------|------------------------------|
| <b>Phantom File</b>    | zinf15.txt, Adaptative 2 max |
| <b>Phantom</b>         | Right head                   |
| <b>Device Position</b> | Cheek                        |
| <b>Band</b>            | GSM1900                      |
| <b>Channels</b>        | Middle                       |
| <b>Signal</b>          | GSM                          |

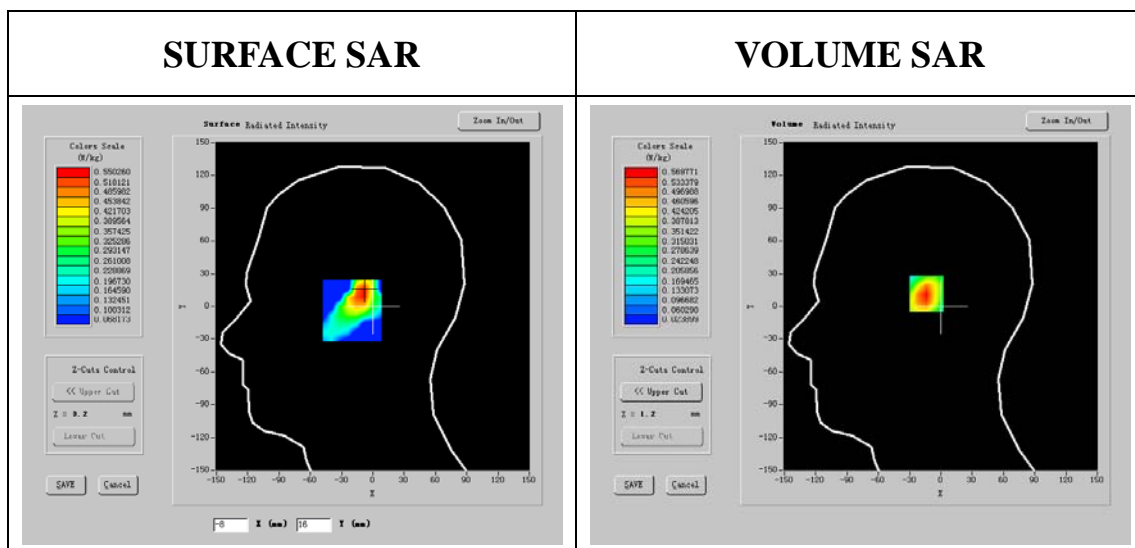
### **B. Instrumentations.**

---

|                         |   |
|-------------------------|---|
| <b>PC</b>               | HP (Pentium(R) V3.06GHz, SN:375052-AA1) |
| <b>Network Emulator</b> | R&S (CMU200, SN:B23-03291)              |
| <b>Voltmeter</b>        | Keithley (2000, SN:1015843)             |
| <b>Synthesizer</b>      | Agilent (E8257C, SN:MY43321570)         |
| <b>Amplifier</b>        | Mini-Circuits (ZHL-42, SN:110405)       |
| <b>Power Meter</b>      | Agilent (E4416A, SN:QB41292714)         |
| <b>Probe</b>            | Antennessa (SN:SN 11-09 EP100)          |
| <b>Phantom</b>          | Antennessa (SN:SN41_05_SAM29)           |
| <b>Liquid</b>           | Antennessa                              |

## C. SAR Measurement Results

|   |             |
|---|-------------|
| <b>Frequency (MHz)</b>                        | 1880.000000 |
| <b>Relative permittivity (real part)</b>      | 40.112031   |
| <b>Relative permittivity (imaginary part)</b> | 13.829140   |
| <b>Conductivity (S/m)</b>                     | 1.420105    |
| <b>Variation (%)</b>                          | -0.100000   |



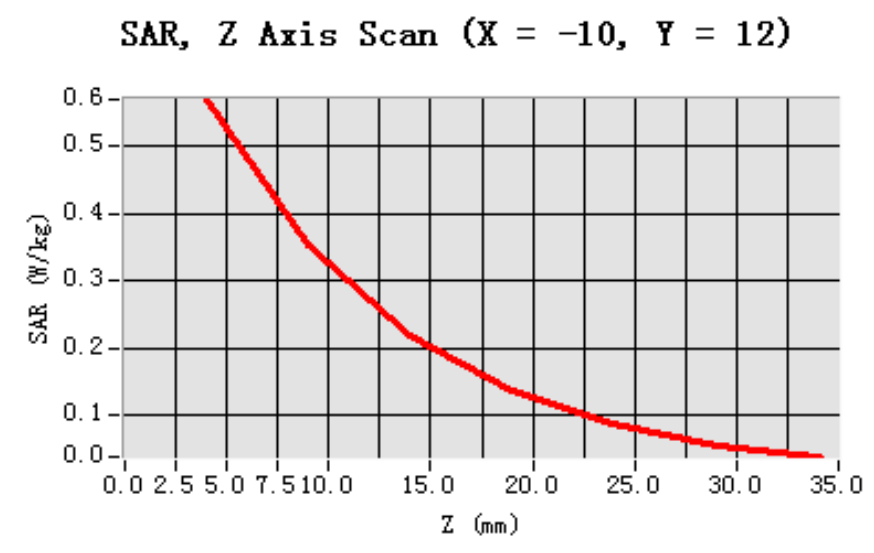
---

**Maximum location: X=-10.00, Y=12.00**

|                      |          |
|----------------------|----------|
| <b>SAR 1g (W/Kg)</b> | 0.546198 |
|----------------------|----------|

---

## Z Axis Scan



---

## MEASUREMENT 3

Type: Phone measurement (Complete)

Date of measurement: 13/5/2010

Measurement duration: 15 minutes 3 seconds

Mobile Phone IMEI number: --

### **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                        |

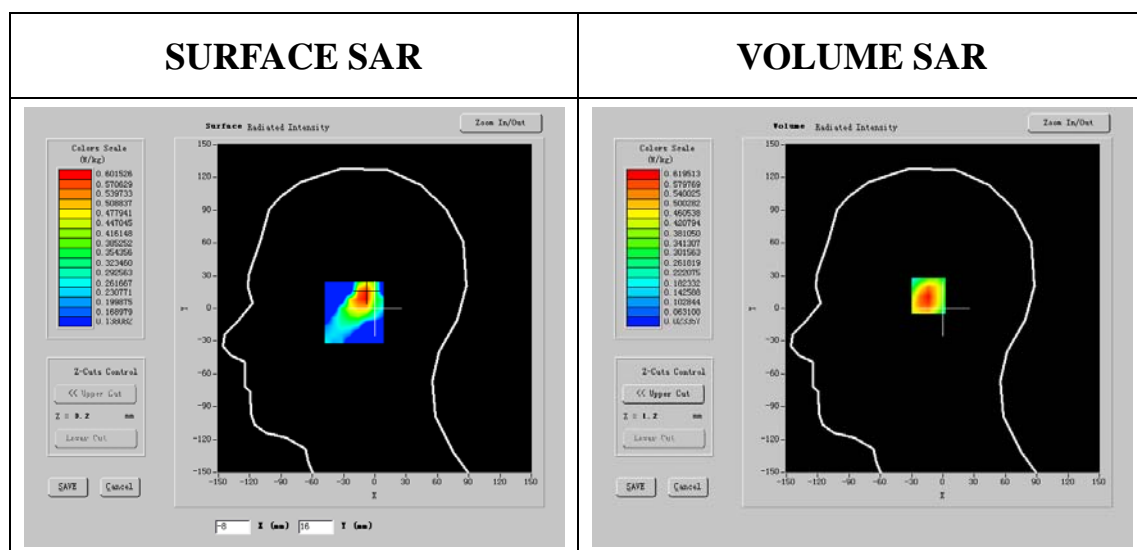
### **B. Instrumentations.**

---

|                         |   |
|-------------------------|---|
| <b>PC</b>               | HP (Pentium(R) V3.06GHz, SN:375052-AA1) |
| <b>Network Emulator</b> | R&S (CMU200, SN:B23-03291)              |
| <b>Voltmeter</b>        | Keithley (2000, SN:1015843)             |
| <b>Synthesizer</b>      | Agilent (E8257C, SN:MY43321570)         |
| <b>Amplifier</b>        | Mini-Circuits (ZHL-42, SN:110405)       |
| <b>Power Meter</b>      | Agilent (E4416A, SN:QB41292714)         |
| <b>Probe</b>            | Antennessa (SN:SN 11-09 EP100)          |
| <b>Phantom</b>          | Antennessa (SN:SN41_05_SAM29)           |
| <b>Liquid</b>           | Antennessa                              |

## C. SAR Measurement Results

|   |             |
|---|-------------|
| <b>Frequency (MHz)</b>                        | 1910.000216 |
| <b>Relative permittivity (real part)</b>      | 40.212009   |
| <b>Relative permittivity (imaginary part)</b> | 13.621200   |
| <b>Conductivity (S/m)</b>                     | 1.421345    |
| <b>Variation (%)</b>                          | -0.300000   |





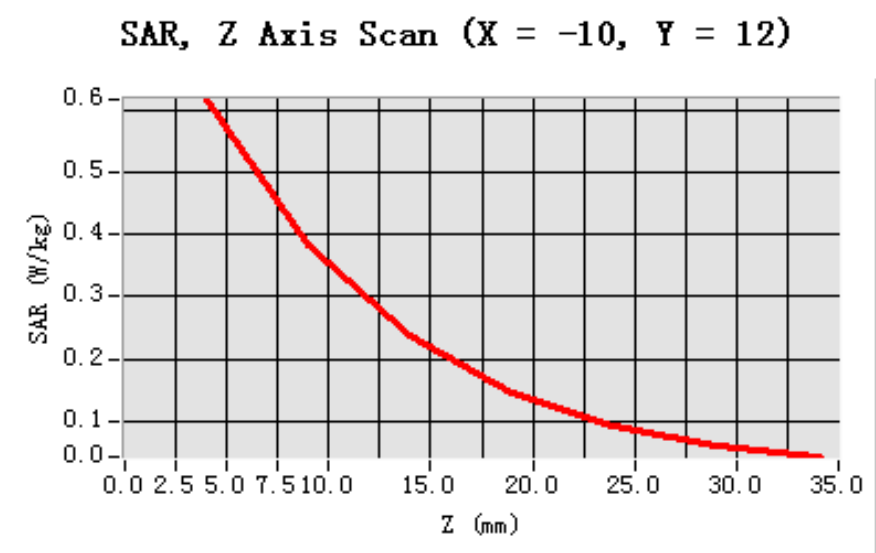
---

**Maximum location: X=-10.00, Y=12.00**

|                      |          |
|----------------------|----------|
| <b>SAR 1g (W/Kg)</b> | 0.570913 |
|----------------------|----------|

---

## Z Axis Scan



---

## MEASUREMENT 4

Type: Phone measurement (Complete)

Date of measurement: 13/5/2010

Measurement duration: 14 minutes 27 seconds

Mobile Phone IMEI number: --

### **A. Experimental conditions.**

|                        |                            |
|------------------------|----------------------------|
| <b>Phantom File</b>    | zinf15.txt, Adaptive 2 max |
| <b>Phantom</b>         | Right hand                 |
| <b>Device Position</b> | Tilt                       |
| <b>Band</b>            | GSM1900                    |
| <b>Channels</b>        | Low                        |
| <b>Signal</b>          | GSM                        |

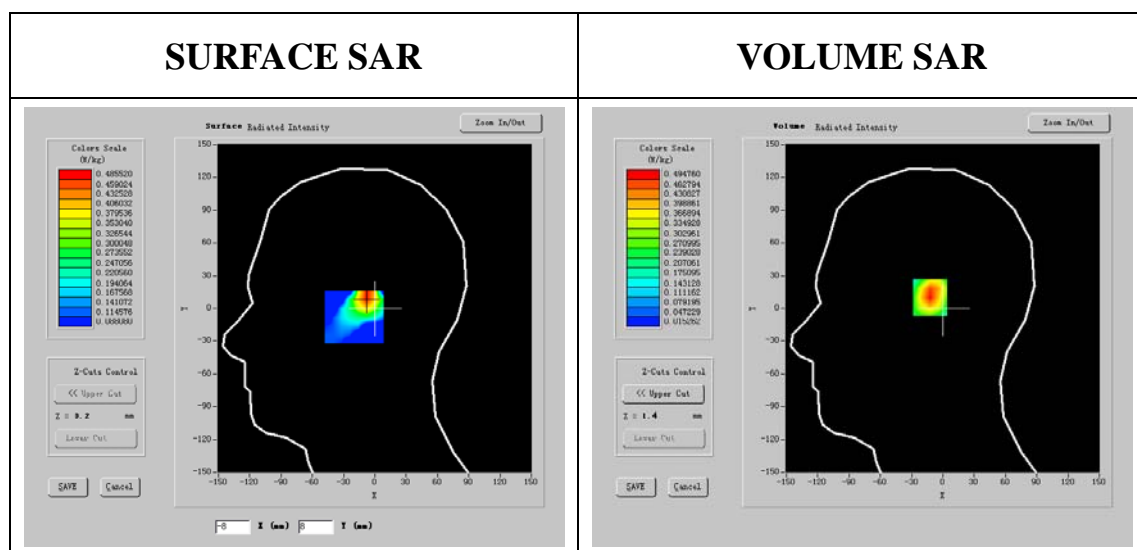
### **B. Instrumentations.**

---

|                         |   |
|-------------------------|---|
| <b>PC</b>               | HP (Pentium(R) V3.06GHz, SN:375052-AA1) |
| <b>Network Emulator</b> | R&S (CMU200, SN:B23-03291)              |
| <b>Voltmeter</b>        | Keithley (2000, SN:1015843)             |
| <b>Synthesizer</b>      | Agilent (E8257C, SN:MY43321570)         |
| <b>Amplifier</b>        | Mini-Circuits (ZHL-42, SN:110405)       |
| <b>Power Meter</b>      | Agilent (E4416A, SN:QB41292714)         |
| <b>Probe</b>            | Antennessa (SN:SN 11-09 EP100)          |
| <b>Phantom</b>          | Antennessa (SN:SN41_05_SAM29)           |
| <b>Liquid</b>           | Antennessa                              |

## C. SAR Measurement Results

|   |             |
|---|-------------|
| <b>Frequency (MHz)</b>                        | 1850.200020 |
| <b>Relative permittivity (real part)</b>      | 40.310230   |
| <b>Relative permittivity (imaginary part)</b> | 13.524100   |
| <b>Conductivity (S/m)</b>                     | 1.402108    |
| <b>Variation (%)</b>                          | -1.400000   |



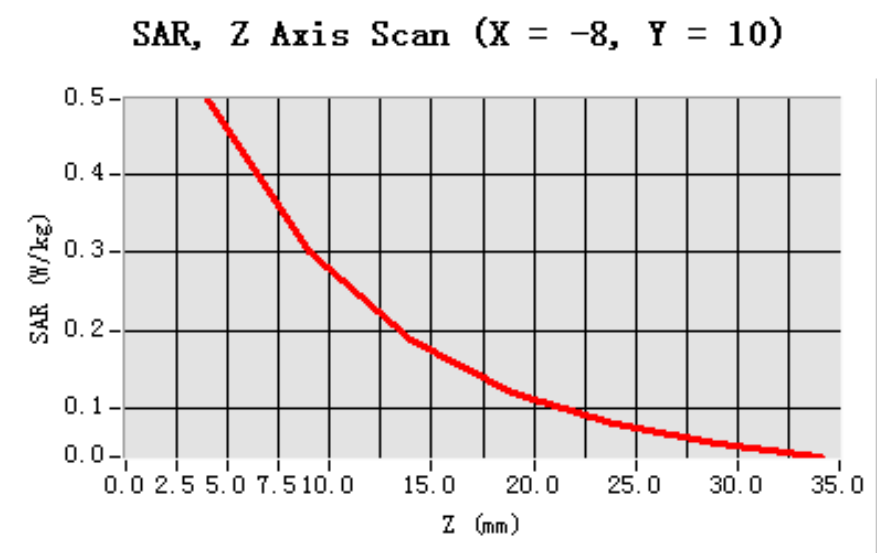
---

**Maximum location: X=-8.00, Y=10.00**

|                      |          |
|----------------------|----------|
| <b>SAR 1g (W/Kg)</b> | 0.448913 |
|----------------------|----------|

---

## Z Axis Scan



---

## MEASUREMENT 5

Type: Phone measurement (Complete)

Date of measurement: 13/5/2010

Measurement duration: 14 minutes 27 seconds

Mobile Phone IMEI number: --

### **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.**

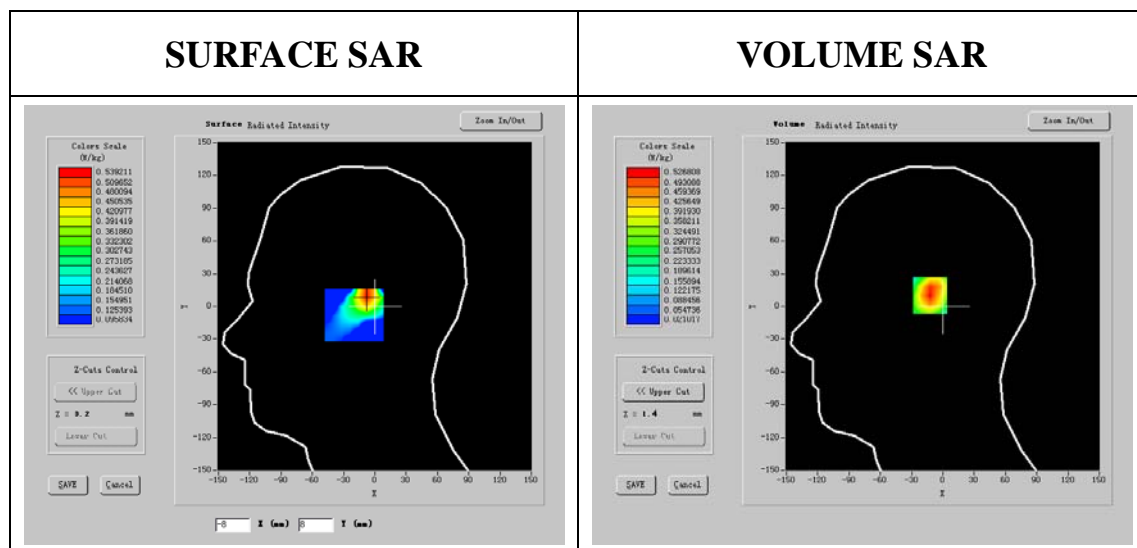


---

|                         |   |
|-------------------------|---|
| <b>PC</b>               | HP (Pentium(R) V3.06GHz, SN:375052-AA1) |
| <b>Network Emulator</b> | R&S (CMU200, SN:B23-03291)              |
| <b>Voltmeter</b>        | Keithley (2000, SN:1015843)             |
| <b>Synthesizer</b>      | Agilent (E8257C, SN:MY43321570)         |
| <b>Amplifier</b>        | Mini-Circuits (ZHL-42, SN:110405)       |
| <b>Power Meter</b>      | Agilent (E4416A, SN:QB41292714)         |
| <b>Probe</b>            | Antennessa (SN:SN 11-09 EP100)          |
| <b>Phantom</b>          | Antennessa (SN:SN41_05_SAM29)           |
| <b>Liquid</b>           | Antennessa                              |

## C. SAR Measurement Results

|   |             |
|---|-------------|
| <b>Frequency (MHz)</b>                        | 1880.000000 |
| <b>Relative permittivity (real part)</b>      | 40.213201   |
| <b>Relative permittivity (imaginary part)</b> | 13.802000   |
| <b>Conductivity (S/m)</b>                     | 1.432010    |
| <b>Variation (%)</b>                          | -0.450000   |



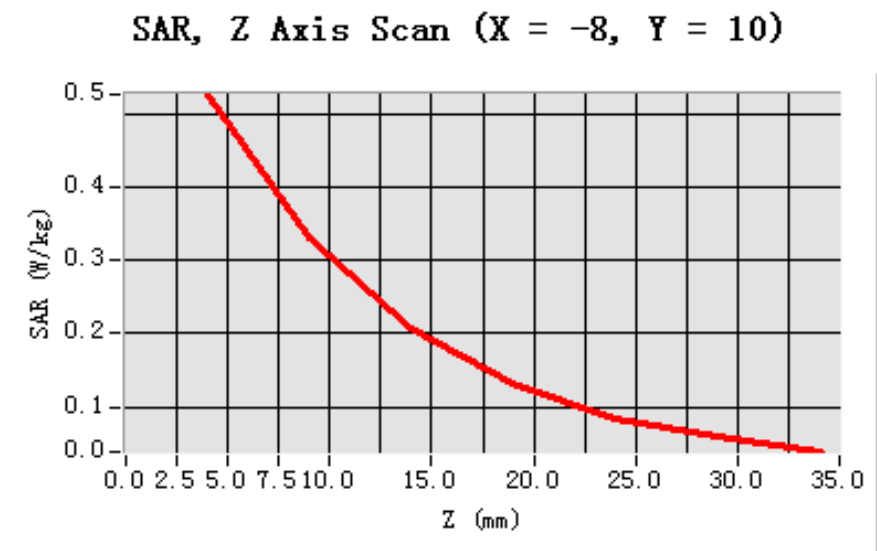
---

**Maximum location: X=-8.00, Y=10.00**

|                      |          |
|----------------------|----------|
| <b>SAR 1g (W/Kg)</b> | 0.490955 |
|----------------------|----------|

---

## Z Axis Scan



---

## MEASUREMENT 6

Type: Phone measurement (Complete)

Date of measurement: 13/5/2010

Measurement duration: 14 minutes 27 seconds

Mobile Phone IMEI number: --

### **A. Experimental conditions.**

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

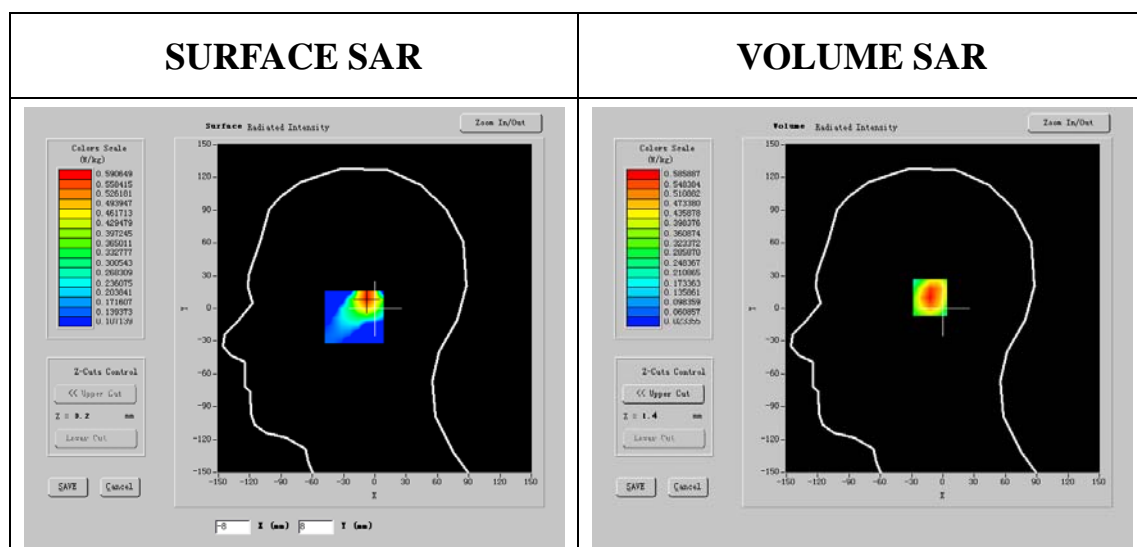
### **B. Instrumentations.**

---

|                         |   |
|-------------------------|---|
| <b>PC</b>               | HP (Pentium(R) V3.06GHz, SN:375052-AA1) |
| <b>Network Emulator</b> | R&S (CMU200, SN:B23-03291)              |
| <b>Voltmeter</b>        | Keithley (2000, SN:1015843)             |
| <b>Synthetizer</b>      | Agilent (E8257C, SN:MY43321570)         |
| <b>Amplifier</b>        | Mini-Circuits (ZHL-42, SN:110405)       |
| <b>Power Meter</b>      | Agilent (E4416A, SN:QB41292714)         |
| <b>Probe</b>            | Antennessa (SN:SN 11-09 EP100)          |
| <b>Phantom</b>          | Antennessa (SN:SN41_05_SAM29)           |
| <b>Liquid</b>           | Antennessa                              |

### C. SAR Measurement Results

|  |             |
|--|-------------|
| Frequency (MHz)                        | 1910.000216 |
| Relative permittivity (real part)      | 40.302159   |
| Relative permittivity (imaginary part) | 13.220300   |
| Conductivity (S/m)                     | 1.415220    |
| Variation (%)                          | -1.000000   |



---

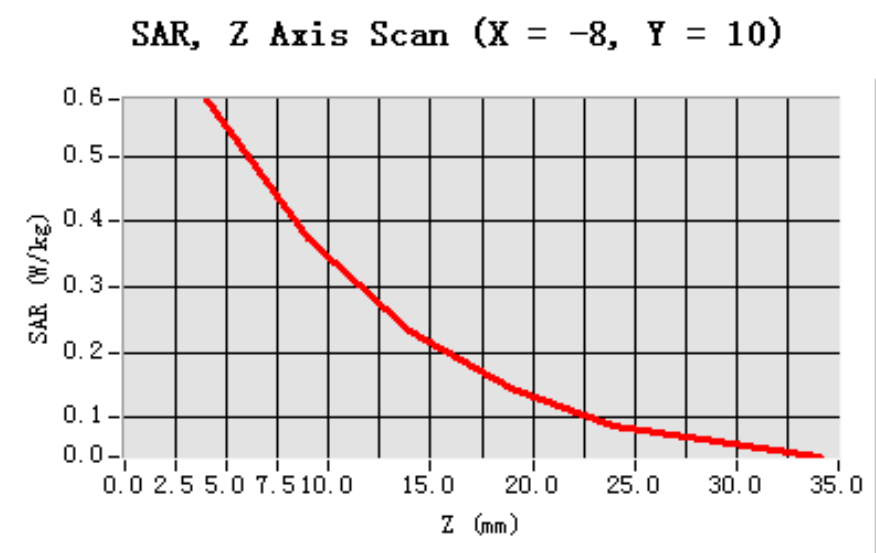
**Maximum location: X=-8.00, Y=10.00**

|                      |          |
|----------------------|----------|
| <b>SAR 1g (W/Kg)</b> | 0.562155 |
|----------------------|----------|



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## Z Axis Scan



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## MEASUREMENT 7

Type: Phone measurement (Complete)

Date of measurement: 13/5/2010

Measurement duration: 14 minutes 27 seconds

Mobile Phone IMEI number: --

### **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                        |

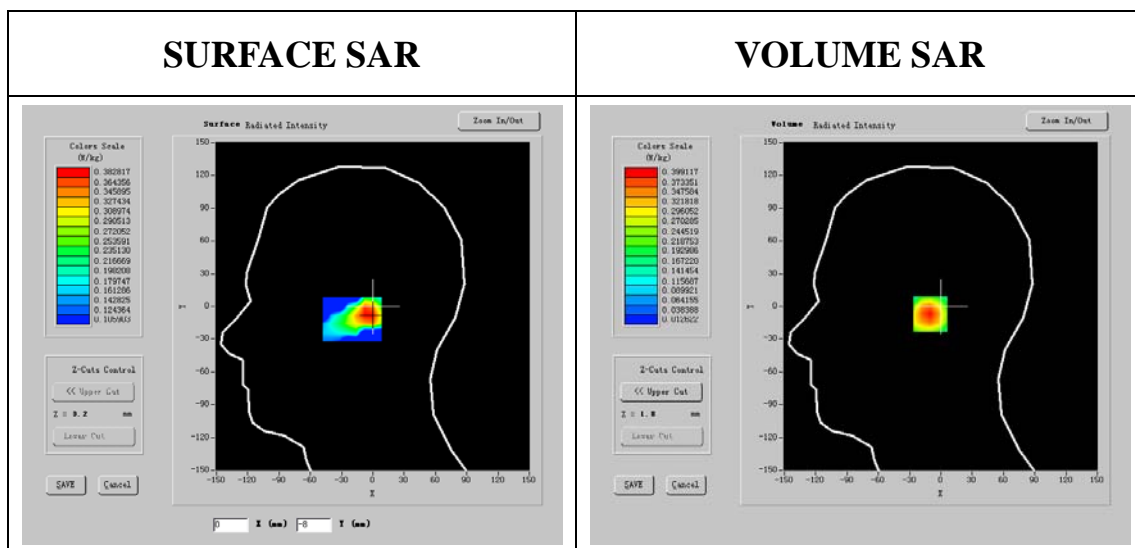
### **B. Instrumentations.**

---

|                         |   |
|-------------------------|---|
| <b>PC</b>               | HP (Pentium(R) V3.06GHz, SN:375052-AA1) |
| <b>Network Emulator</b> | R&S (CMU200, SN:B23-03291)              |
| <b>Voltmeter</b>        | Keithley (2000, SN:1015843)             |
| <b>Synthesizer</b>      | Agilent (E8257C, SN:MY43321570)         |
| <b>Amplifier</b>        | Mini-Circuits (ZHL-42, SN:110405)       |
| <b>Power Meter</b>      | Agilent (E4416A, SN:QB41292714)         |
| <b>Probe</b>            | Antennessa (SN:SN 11-09 EP100)          |
| <b>Phantom</b>          | Antennessa (SN:SN41_05_SAM29)           |
| <b>Liquid</b>           | Antennessa                              |

## C. SAR Measurement Results

|   |             |
|---|-------------|
| <b>Frequency (MHz)</b>                        | 1850.200001 |
| <b>Relative permittivity (real part)</b>      | 40.323100   |
| <b>Relative permittivity (imaginary part)</b> | 13.530200   |
| <b>Conductivity (S/m)</b>                     | 1.421230    |
| <b>Variation (%)</b>                          | 0.700000    |



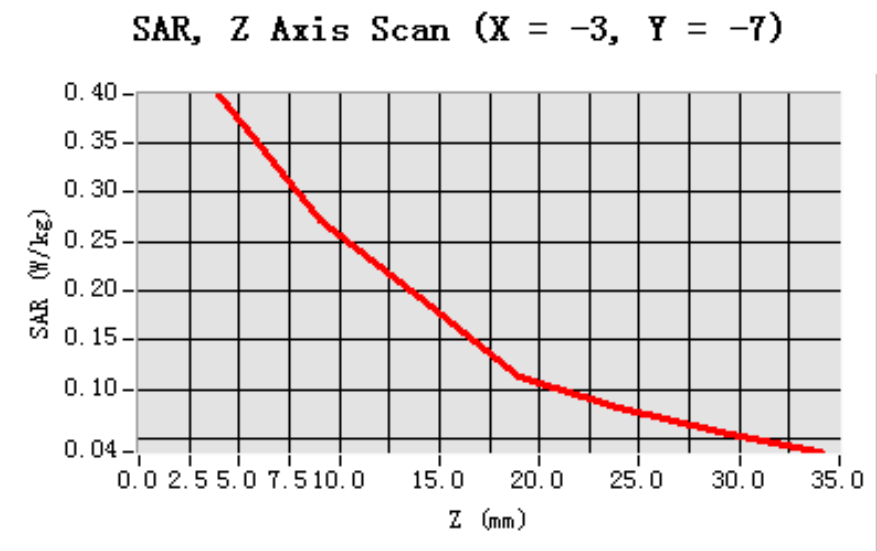
---

**Maximum location: X=-3.00, Y=-7.00**

|                      |          |
|----------------------|----------|
| <b>SAR 1g (W/Kg)</b> | 0.363116 |
|----------------------|----------|

---

## Z Axis Scan



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## MEASUREMENT 8

Type: Phone measurement (Complete)

Date of measurement: 13/5/2010

Measurement duration: 14 minutes 27 seconds

Mobile Phone IMEI number: --

### **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.**

---

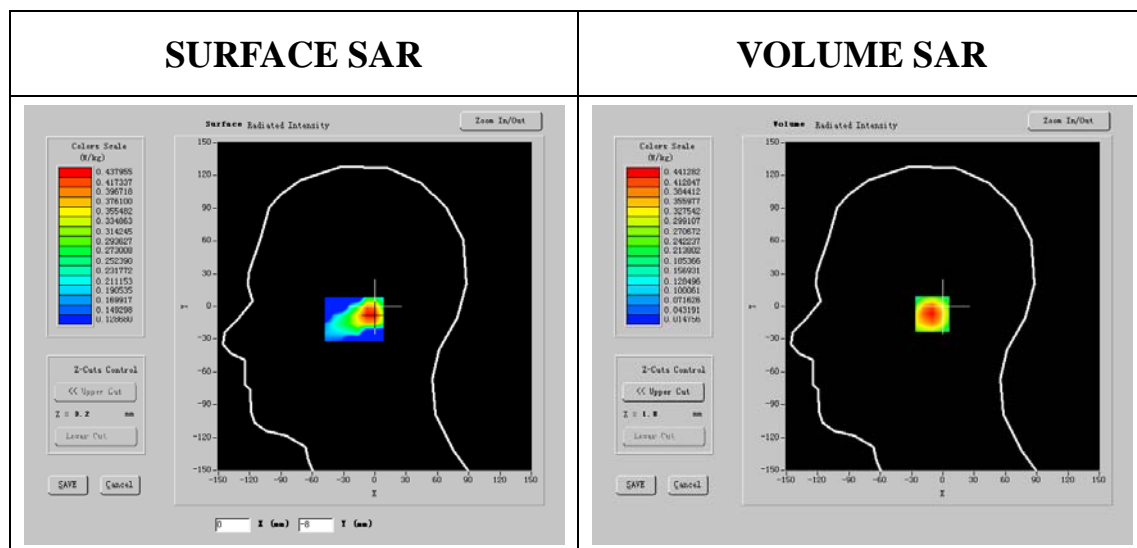
  

|                         |   |
|-------------------------|---|
| <b>PC</b>               | HP (Pentium(R) V3.06GHz, SN:375052-AA1) |
| <b>Network Emulator</b> | R&S (CMU200, SN:B23-03291)              |
| <b>Voltmeter</b>        | Keithley (2000, SN:1015843)             |
| <b>Synthesizer</b>      | Agilent (E8257C, SN:MY43321570)         |
| <b>Amplifier</b>        | Mini-Circuits (ZHL-42, SN:110405)       |
| <b>Power Meter</b>      | Agilent (E4416A, SN:QB41292714)         |
| <b>Probe</b>            | Antennessa (SN:SN 11-09 EP100)          |
| <b>Phantom</b>          | Antennessa (SN:SN41_05_SAM29)           |
| <b>Liquid</b>           | Antennessa                              |



## C. SAR Measurement Results

|   |             |
|---|-------------|
| <b>Frequency (MHz)</b>                        | 1880.000000 |
| <b>Relative permittivity (real part)</b>      | 40.142032   |
| <b>Relative permittivity (imaginary part)</b> | 13.832000   |
| <b>Conductivity (S/m)</b>                     | 1.412102    |
| <b>Variation (%)</b>                          | 1.500000    |



---

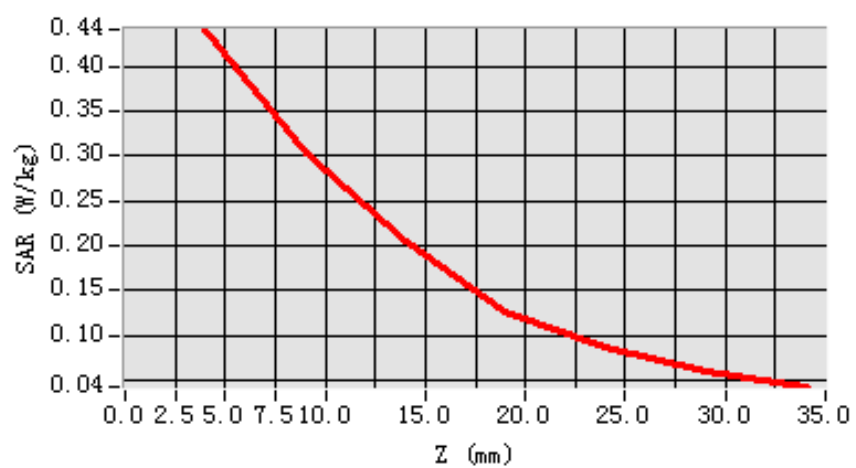
**Maximum location: X=-3.00, Y=-7.00**

|                      |          |
|----------------------|----------|
| <b>SAR 1g (W/Kg)</b> | 0.559309 |
|----------------------|----------|

---

## Z Axis Scan

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



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## MEASUREMENT 9

Type: Phone measurement (Complete)

Date of measurement: 13/5/2010

Measurement duration: 14 minutes 27 seconds

Mobile Phone IMEI number: --

### **A. Experimental conditions.**

|                        |                              |
|------------------------|------------------------------|
| <b>Phantom File</b>    | zinf15.txt, Adaptative 2 max |
| <b>Phantom</b>         | Left head                    |
| <b>Device Position</b> | Cheek                        |
| <b>Band</b>            | GSM1900                      |
| <b>Channels</b>        | High                         |
| <b>Signal</b>          | GSM                          |

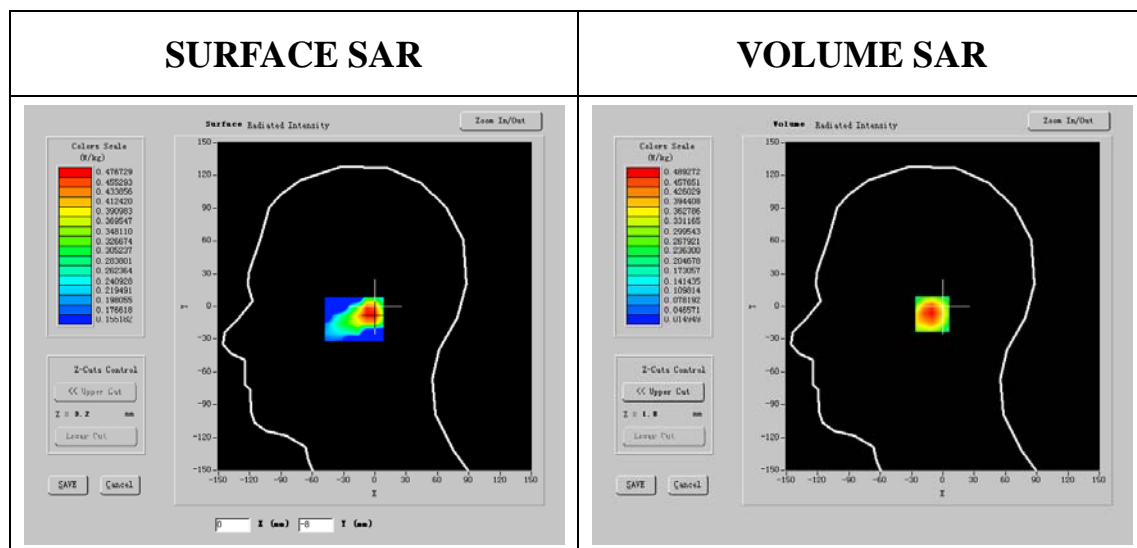
### **B. Instrumentations.**

---

|                         |   |
|-------------------------|---|
| <b>PC</b>               | HP (Pentium(R) V3.06GHz, SN:375052-AA1) |
| <b>Network Emulator</b> | R&S (CMU200, SN:B23-03291)              |
| <b>Voltmeter</b>        | Keithley (2000, SN:1015843)             |
| <b>Synthetizer</b>      | Agilent (E8257C, SN:MY43321570)         |
| <b>Amplifier</b>        | Mini-Circuits (ZHL-42, SN:110405)       |
| <b>Power Meter</b>      | Agilent (E4416A, SN:QB41292714)         |
| <b>Probe</b>            | Antennessa (SN:SN 11-09 EP100)          |
| <b>Phantom</b>          | Antennessa (SN:SN41_05_SAM29)           |
| <b>Liquid</b>           | Antennessa                              |

## C. SAR Measurement Results

|   |             |
|---|-------------|
| <b>Frequency (MHz)</b>                        | 1910.000276 |
| <b>Relative permittivity (real part)</b>      | 40.103250   |
| <b>Relative permittivity (imaginary part)</b> | 13.602300   |
| <b>Conductivity (S/m)</b>                     | 1.411236    |
| <b>Variation (%)</b>                          | 0.450000    |



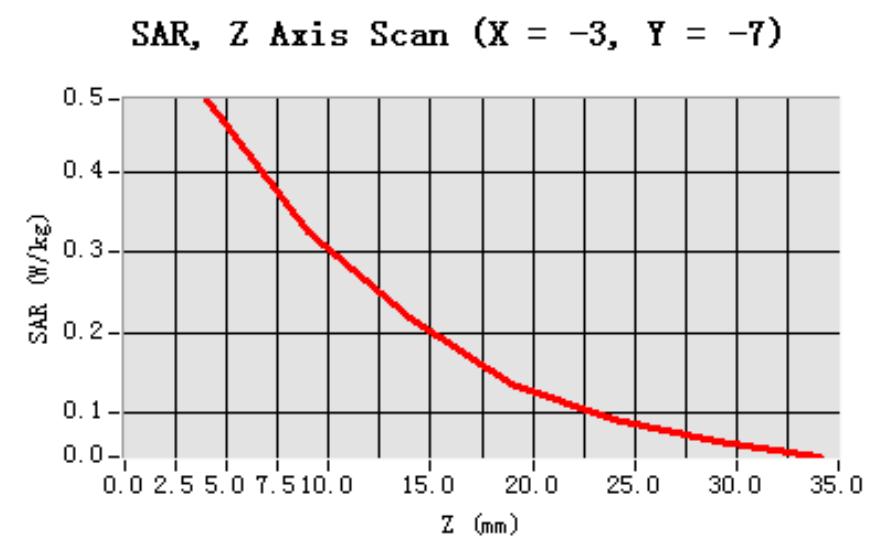
---

**Maximum location: X=-3.00, Y=-7.00**

|                      |          |
|----------------------|----------|
| <b>SAR 1g (W/Kg)</b> | 0.442303 |
|----------------------|----------|

---

## Z Axis Scan





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## MEASUREMENT 10

Type: Phone measurement (Complete)

Date of measurement: 13/5/2010

Measurement duration: 14 minutes 19 seconds

Mobile Phone IMEI number: --

### **A. Experimental conditions.**

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

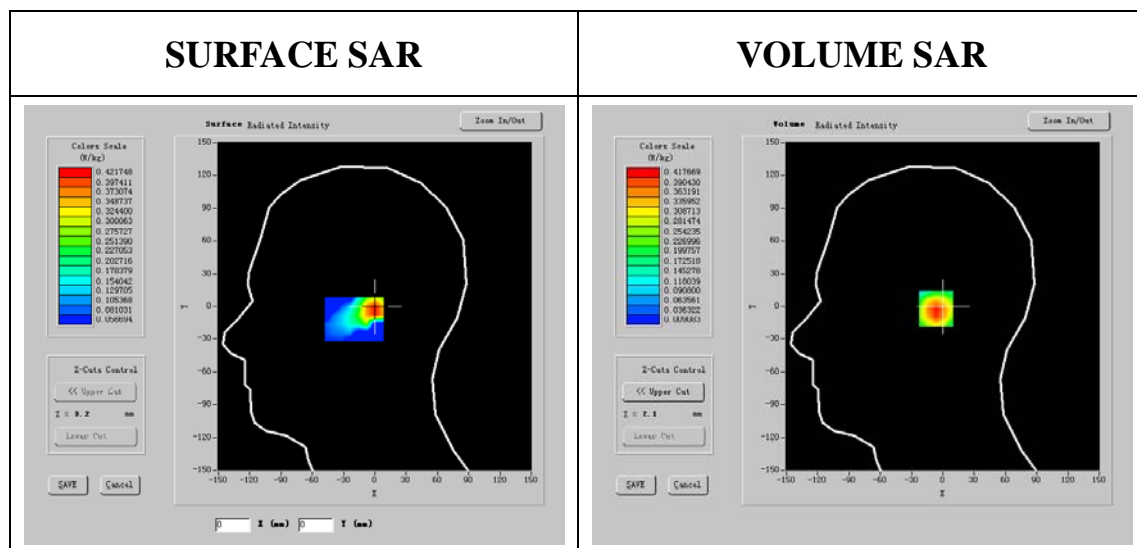
### **B. Instrumentations.**

---

|                         |   |
|-------------------------|---|
| <b>PC</b>               | HP (Pentium(R) V3.06GHz, SN:375052-AA1) |
| <b>Network Emulator</b> | R&S (CMU200, SN:B23-03291)              |
| <b>Voltmeter</b>        | Keithley (2000, SN:1015843)             |
| <b>Synthesizer</b>      | Agilent (E8257C, SN:MY43321570)         |
| <b>Amplifier</b>        | Mini-Circuits (ZHL-42, SN:110405)       |
| <b>Power Meter</b>      | Agilent (E4416A, SN:QB41292714)         |
| <b>Probe</b>            | Antennessa (SN:SN 11-09 EP100)          |
| <b>Phantom</b>          | Antennessa (SN:SN41_05_SAM29)           |
| <b>Liquid</b>           | Antennessa                              |

## C. SAR Measurement Results

|   |             |
|---|-------------|
| <b>Frequency (MHz)</b>                        | 1850.200004 |
| <b>Relative permittivity (real part)</b>      | 40.312300   |
| <b>Relative permittivity (imaginary part)</b> | 13.512300   |
| <b>Conductivity (S/m)</b>                     | 1.403510    |
| <b>Variation (%)</b>                          | -0.230000   |



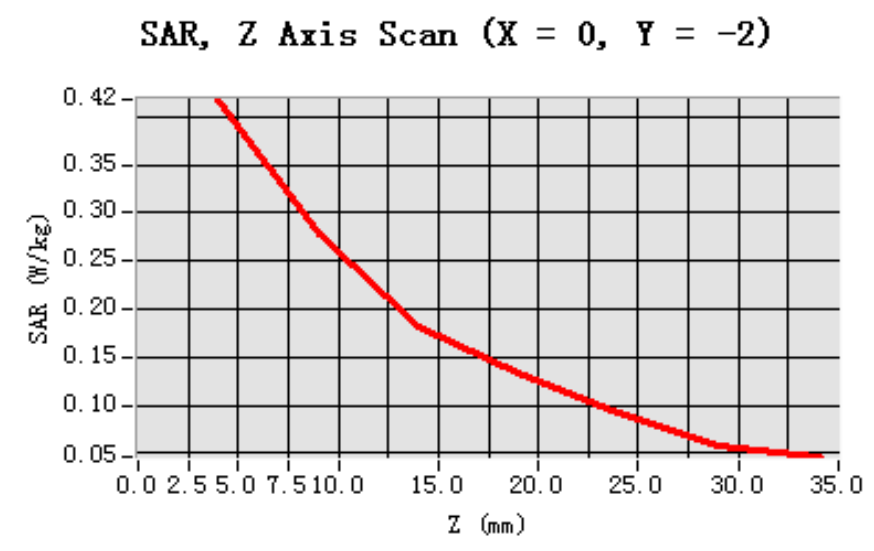
---

**Maximum location: X=0.00, Y=-2.00**

|                      |          |
|----------------------|----------|
| <b>SAR 1g (W/Kg)</b> | 0.364447 |
|----------------------|----------|

---

## Z Axis Scan



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## MEASUREMENT 11

Type: Phone measurement (Complete)

Date of measurement: 13/5/2010

Measurement duration: 14 minutes 19 seconds

Mobile Phone IMEI number: --

### **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                        |

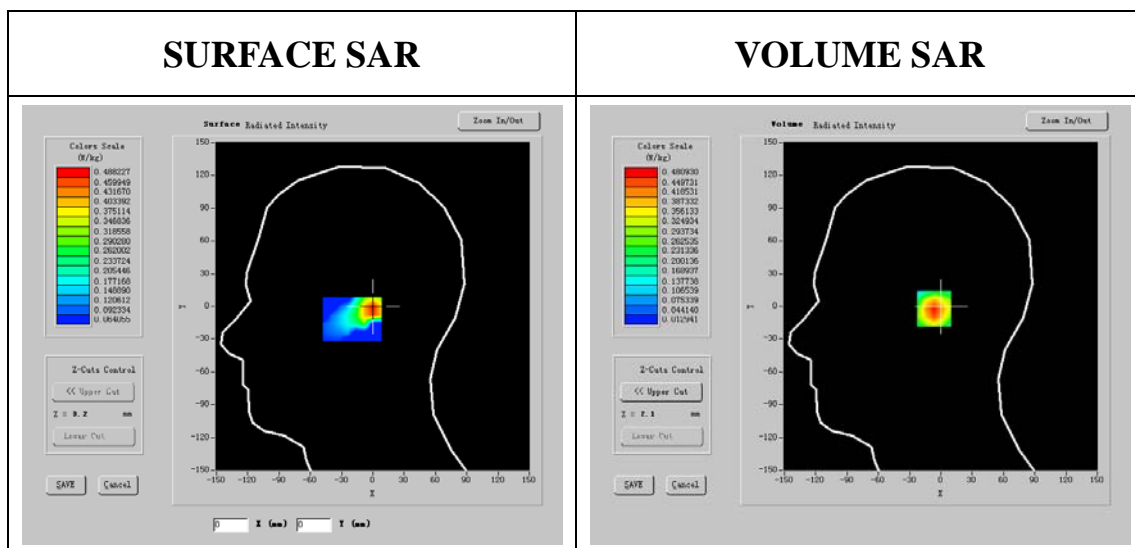
### **B. Instrumentations.**

---

|                         |   |
|-------------------------|---|
| <b>PC</b>               | HP (Pentium(R) V3.06GHz, SN:375052-AA1) |
| <b>Network Emulator</b> | R&S (CMU200, SN:B23-03291)              |
| <b>Voltmeter</b>        | Keithley (2000, SN:1015843)             |
| <b>Synthetizer</b>      | Agilent (E8257C, SN:MY43321570)         |
| <b>Amplifier</b>        | Mini-Circuits (ZHL-42, SN:110405)       |
| <b>Power Meter</b>      | Agilent (E4416A, SN:QB41292714)         |
| <b>Probe</b>            | Antennessa (SN:SN 11-09 EP100)          |
| <b>Phantom</b>          | Antennessa (SN:SN41_05_SAM29)           |
| <b>Liquid</b>           | Antennessa                              |

## C. SAR Measurement Results

|   |             |
|---|-------------|
| <b>Frequency (MHz)</b>                        | 1880.000000 |
| <b>Relative permittivity (real part)</b>      | 40.310201   |
| <b>Relative permittivity (imaginary part)</b> | 13.321300   |
| <b>Conductivity (S/m)</b>                     | 1.410010    |
| <b>Variation (%)</b>                          | -1.200000   |





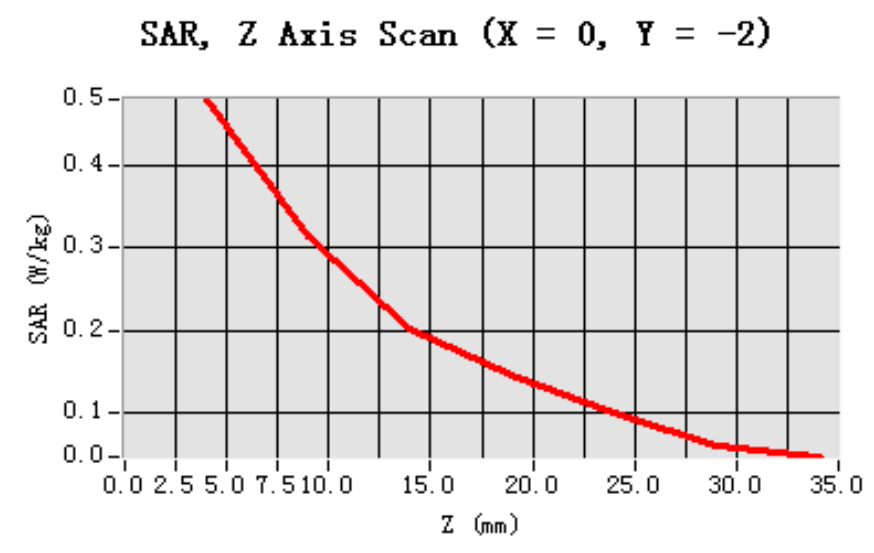
---

**Maximum location: X=0.00, Y=-2.00**

|                      |          |
|----------------------|----------|
| <b>SAR 1g (W/Kg)</b> | 0.448825 |
|----------------------|----------|

---

## Z Axis Scan



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## MEASUREMENT 12

Type: Phone measurement (Complete)

Date of measurement: 13/5/2010

Measurement duration: 14 minutes 19 seconds

Mobile Phone IMEI number: --

### **A. Experimental conditions.**

|                        |                              |
|------------------------|------------------------------|
| <b>Phantom File</b>    | zinf15.txt, Adaptative 2 max |
| <b>Phantom</b>         | Left head                    |
| <b>Device Position</b> | Tilt                         |
| <b>Band</b>            | GSM1900                      |
| <b>Channels</b>        | High                         |
| <b>Signal</b>          | GSM                          |

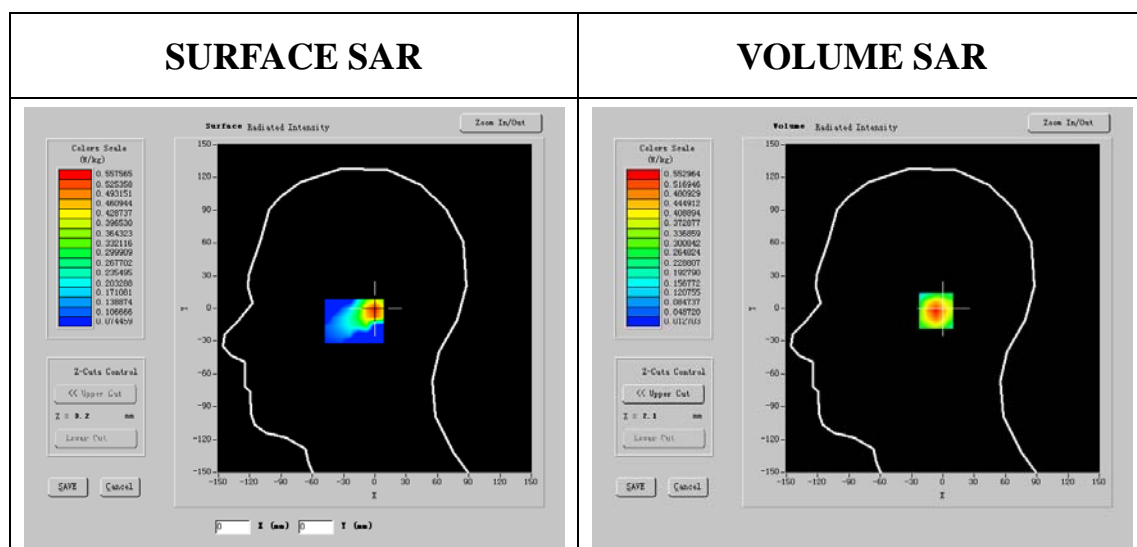
### **B. Instrumentations.**

---

|                         |   |
|-------------------------|---|
| <b>PC</b>               | HP (Pentium(R) V3.06GHz, SN:375052-AA1) |
| <b>Network Emulator</b> | R&S (CMU200, SN:B23-03291)              |
| <b>Voltmeter</b>        | Keithley (2000, SN:1015843)             |
| <b>Synthetizer</b>      | Agilent (E8257C, SN:MY43321570)         |
| <b>Amplifier</b>        | Mini-Circuits (ZHL-42, SN:110405)       |
| <b>Power Meter</b>      | Agilent (E4416A, SN:QB41292714)         |
| <b>Probe</b>            | Antennessa (SN:SN 11-09 EP100)          |
| <b>Phantom</b>          | Antennessa (SN:SN41_05_SAM29)           |
| <b>Liquid</b>           | Antennessa                              |

### C. SAR Measurement Results

|  |             |
|--|-------------|
| Frequency (MHz)                        | 1910.002076 |
| Relative permittivity (real part)      | 40.220203   |
| Relative permittivity (imaginary part) | 13.618100   |
| Conductivity (S/m)                     | 1.422415    |
| Variation (%)                          | -1.100000   |



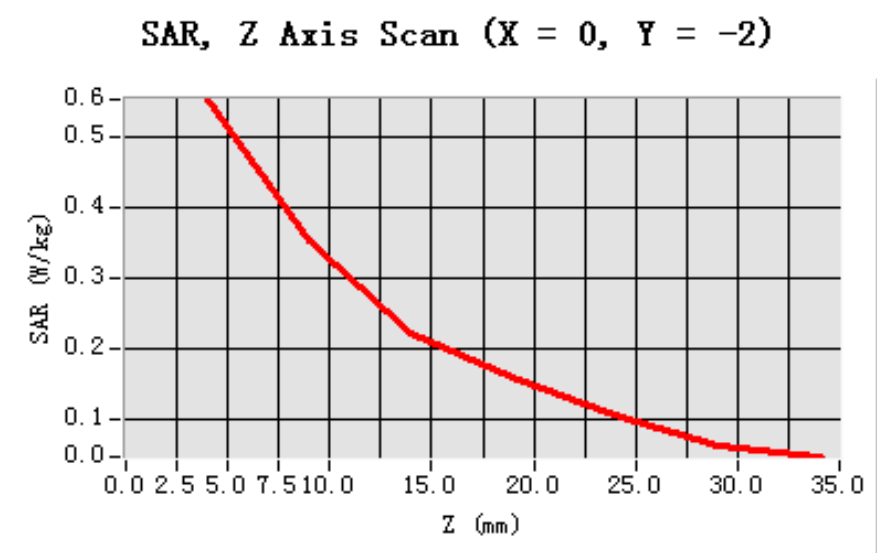
---

**Maximum location: X=0.00, Y=-2.00**

|                      |          |
|----------------------|----------|
| <b>SAR 1g (W/Kg)</b> | 0.453610 |
|----------------------|----------|

---

## Z Axis Scan



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## **Face up with earphone**

### **MEASUREMENT 1**

Type: Phone measurement (Complete)

Date of measurement: 13/5/2010

Measurement duration: 14 minutes 44 seconds

Mobile Phone IMEI number: --

#### **A. Experimental conditions.**

|                        |                                     |
|------------------------|-------------------------------------|
| <b>Phantom File</b>    | surf_sam_plan.txt, Adaptative 2 max |
| <b>Phantom</b>         | Validation plane                    |
| <b>Device Position</b> | Body                                |
| <b>Band</b>            | GSM1900                             |
| <b>Channels</b>        | Low                                 |
| <b>Signal</b>          | GSM                                 |

#### **B. Instrumentations.**

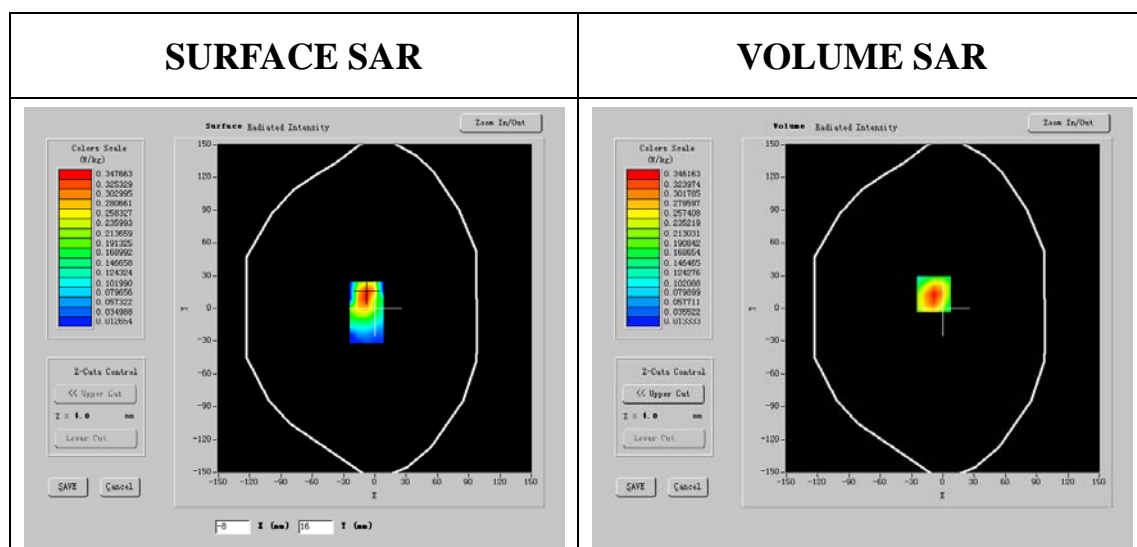


---

|                         |   |
|-------------------------|---|
| <b>PC</b>               | HP (Pentium(R) V3.06GHz, SN:375052-AA1) |
| <b>Network Emulator</b> | R&S (CMU200, SN:B23-03291)              |
| <b>Voltmeter</b>        | Keithley (2000, SN:1015843)             |
| <b>Synthetizer</b>      | Agilent (E8257C, SN:MY43321570)         |
| <b>Amplifier</b>        | Mini-Circuits (ZHL-42, SN:110405)       |
| <b>Power Meter</b>      | Agilent (E4416A, SN:QB41292714)         |
| <b>Probe</b>            | Antennessa (SN:SN 11-09 EP100)          |
| <b>Phantom</b>          | Antennessa (SN:SN41_05_SAM29)           |
| <b>Liquid</b>           | Antennessa                              |

## C. SAR Measurement Results

|   |             |
|---|-------------|
| <b>Frequency (MHz)</b>                        | 1850.200004 |
| <b>Relative permittivity (real part)</b>      | 53.310300   |
| <b>Relative permittivity (imaginary part)</b> | 13.526900   |
| <b>Conductivity (S/m)</b>                     | 1.510201    |
| <b>Variation (%)</b>                          | -0.100000   |



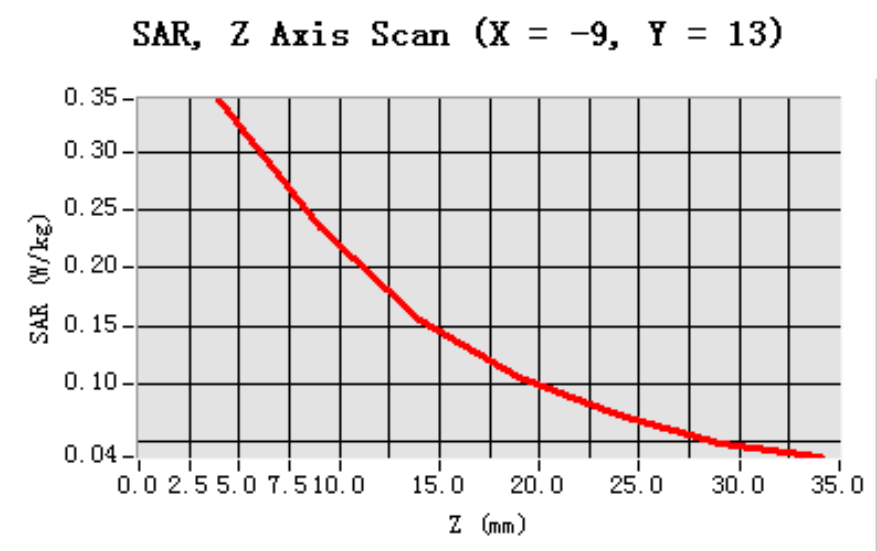
---

**Maximum location: X=-9.00, Y=13.00**

|                      |          |
|----------------------|----------|
| <b>SAR 1g (W/Kg)</b> | 0.352114 |
|----------------------|----------|

---

## Z Axis Scan



---

## MEASUREMENT 2

Type: Phone measurement (Complete)

Date of measurement: 13/5/2010

Measurement duration: 14 minutes 44 seconds

Mobile Phone IMEI number: --

### **A. Experimental conditions.**

|                        |                                     |
|------------------------|-------------------------------------|
| <b>Phantom File</b>    | surf_sam_plan.txt, Adaptative 2 max |
| <b>Phantom</b>         | Validation plane                    |
| <b>Device Position</b> | Body                                |
| <b>Band</b>            | GSM1900                             |
| <b>Channels</b>        | Middle                              |
| <b>Signal</b>          | GSM                                 |

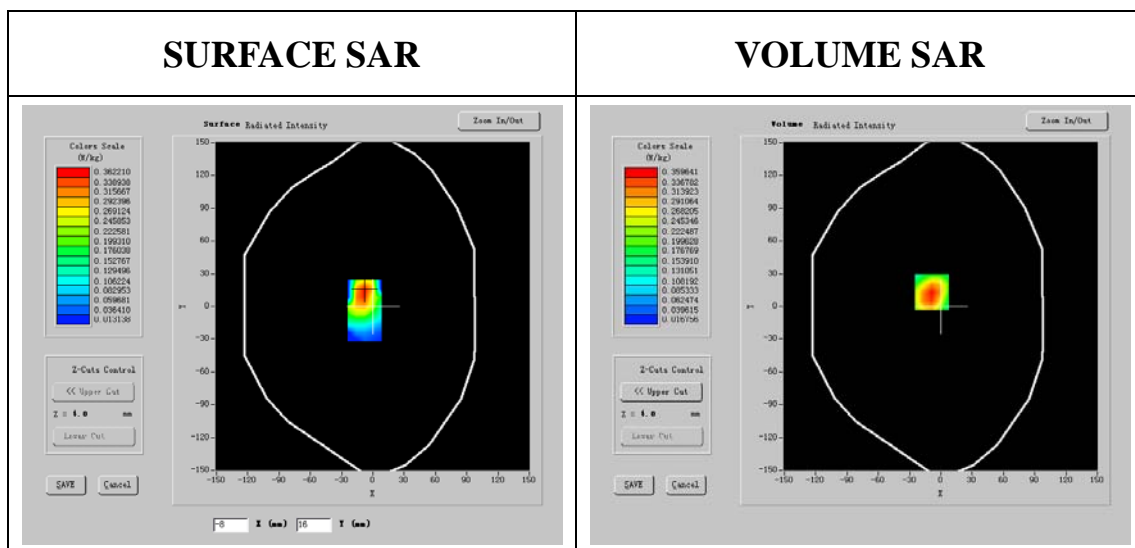
### **B. Instrumentations.**

---

|                         |   |
|-------------------------|---|
| <b>PC</b>               | HP (Pentium(R) V3.06GHz, SN:375052-AA1) |
| <b>Network Emulator</b> | R&S (CMU200, SN:B23-03291)              |
| <b>Voltmeter</b>        | Keithley (2000, SN:1015843)             |
| <b>Synthetizer</b>      | Agilent (E8257C, SN:MY43321570)         |
| <b>Amplifier</b>        | Mini-Circuits (ZHL-42, SN:110405)       |
| <b>Power Meter</b>      | Agilent (E4416A, SN:QB41292714)         |
| <b>Probe</b>            | Antennessa (SN:SN 11-09 EP100)          |
| <b>Phantom</b>          | Antennessa (SN:SN41_05_SAM29)           |
| <b>Liquid</b>           | Antennessa                              |

## C. SAR Measurement Results

|   |             |
|---|-------------|
| <b>Frequency (MHz)</b>                        | 1880.000000 |
| <b>Relative permittivity (real part)</b>      | 52.941421   |
| <b>Relative permittivity (imaginary part)</b> | 13.792500   |
| <b>Conductivity (S/m)</b>                     | 1.511420    |
| <b>Variation (%)</b>                          | -0.500000   |



---

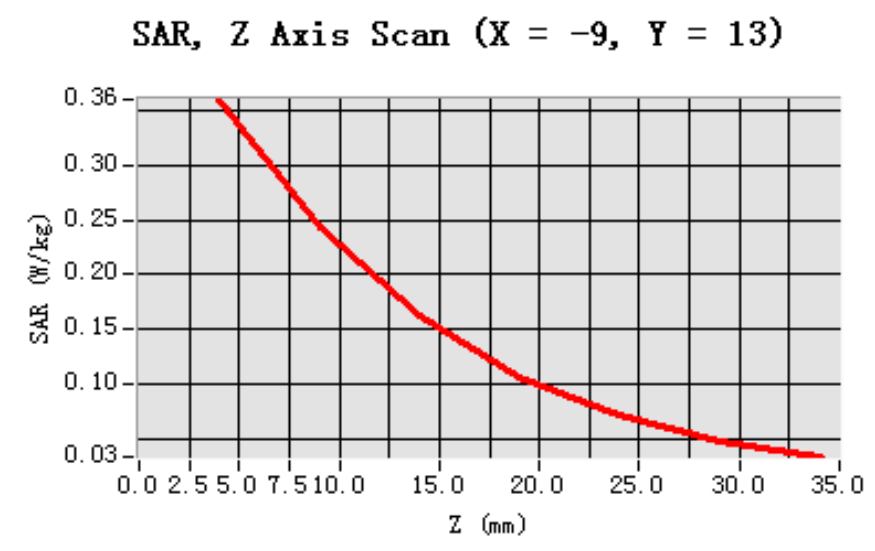
**Maximum location: X=-9.00, Y=13.00**

|                      |          |
|----------------------|----------|
| <b>SAR 1g (W/Kg)</b> | 0.319058 |
|----------------------|----------|



---

## Z Axis Scan



---

## MEASUREMENT 3

Type: Phone measurement (Complete)

Date of measurement: 13/5/2010

Measurement duration: 14 minutes 44 seconds

Mobile Phone IMEI number: --

### **A. Experimental conditions.**

|                        |                                   |
|------------------------|-----------------------------------|
| <b>Phantom File</b>    | surf_sam_plan.txt, Adaptive 2 max |
| <b>Phantom</b>         | Validation plane                  |
| <b>Device Position</b> | Body                              |
| <b>Band</b>            | GSM1900                           |
| <b>Channels</b>        | High                              |
| <b>Signal</b>          | GSM                               |

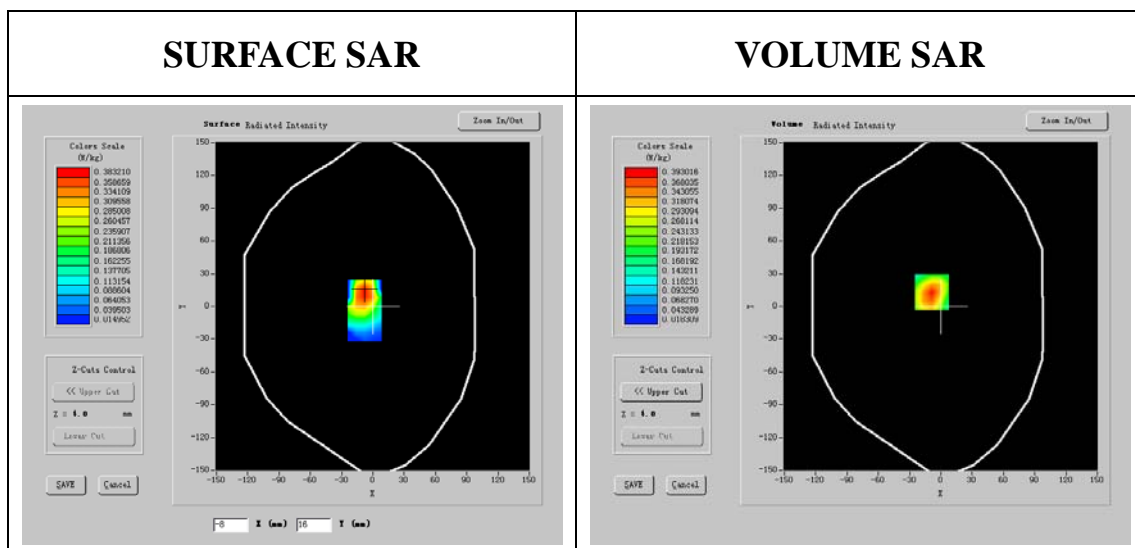
### **B. Instrumentations.**

---

|                         |   |
|-------------------------|---|
| <b>PC</b>               | HP (Pentium(R) V3.06GHz, SN:375052-AA1) |
| <b>Network Emulator</b> | R&S (CMU200, SN:B23-03291)              |
| <b>Voltmeter</b>        | Keithley (2000, SN:1015843)             |
| <b>Synthesizer</b>      | Agilent (E8257C, SN:MY43321570)         |
| <b>Amplifier</b>        | Mini-Circuits (ZHL-42, SN:110405)       |
| <b>Power Meter</b>      | Agilent (E4416A, SN:QB41292714)         |
| <b>Probe</b>            | Antennessa (SN:SN 11-09 EP100)          |
| <b>Phantom</b>          | Antennessa (SN:SN41_05_SAM29)           |
| <b>Liquid</b>           | Antennessa                              |

## C. SAR Measurement Results

|   |             |
|---|-------------|
| <b>Frequency (MHz)</b>                        | 1909.590210 |
| <b>Relative permittivity (real part)</b>      | 52.281410   |
| <b>Relative permittivity (imaginary part)</b> | 13.626320   |
| <b>Conductivity (S/m)</b>                     | 1.502125    |
| <b>Variation (%)</b>                          | -0.540000   |



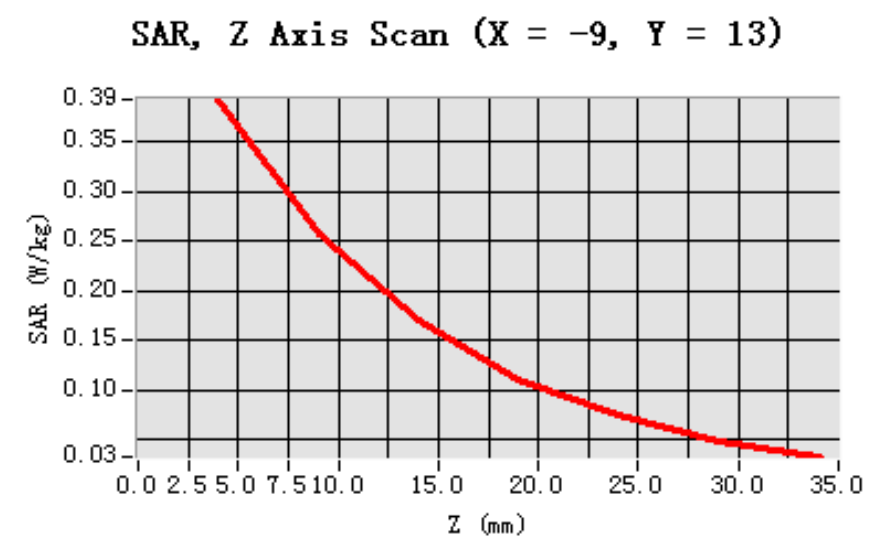
---

**Maximum location: X=-9.00, Y=13.00**

|                      |          |
|----------------------|----------|
| <b>SAR 1g (W/Kg)</b> | 0.373272 |
|----------------------|----------|

---

## Z Axis Scan



---

# Face down with earphone

## MEASUREMENT 1

Type: Phone measurement (Complete)

Date of measurement: 13/5/2010

Measurement duration: 14 minutes 44 seconds

Mobile Phone IMEI number: --

### **A. Experimental conditions.**

|                        |                                     |
|------------------------|-------------------------------------|
| <b>Phantom File</b>    | surf_sam_plan.txt, Adaptative 2 max |
| <b>Phantom</b>         | Validation plane                    |
| <b>Device Position</b> | Body                                |
| <b>Band</b>            | GSM1900                             |
| <b>Channels</b>        | Low                                 |
| <b>Signal</b>          | GSM                                 |

### **B. Instrumentations.**

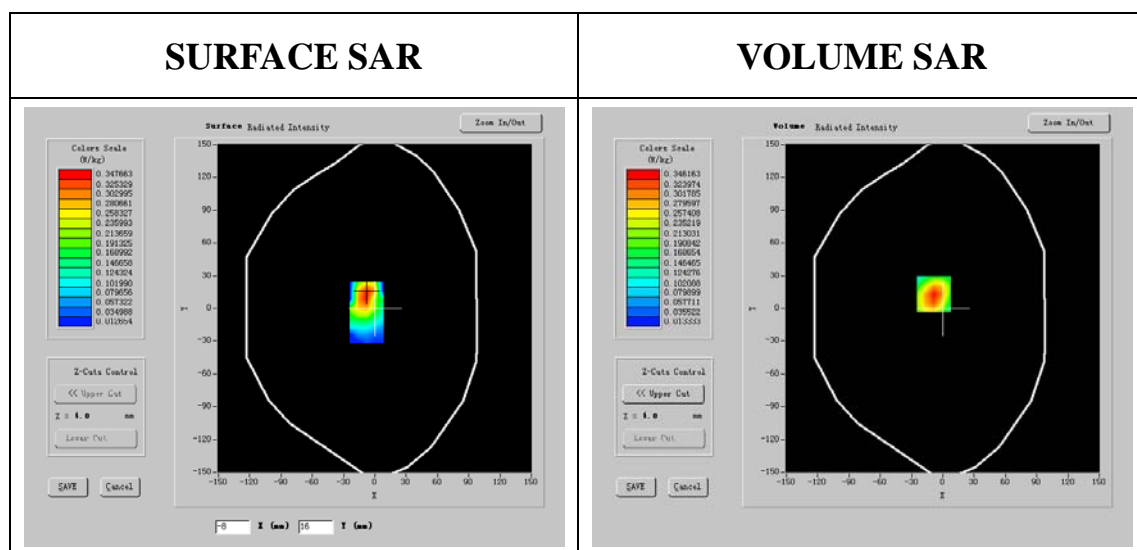
---

|                         |   |
|-------------------------|---|
| <b>PC</b>               | HP (Pentium(R) V3.06GHz, SN:375052-AA1) |
| <b>Network Emulator</b> | R&S (CMU200, SN:B23-03291)              |
| <b>Voltmeter</b>        | Keithley (2000, SN:1015843)             |
| <b>Synthesizer</b>      | Agilent (E8257C, SN:MY43321570)         |
| <b>Amplifier</b>        | Mini-Circuits (ZHL-42, SN:110405)       |
| <b>Power Meter</b>      | Agilent (E4416A, SN:QB41292714)         |
| <b>Probe</b>            | Antennessa (SN:SN11/09 EP100)           |
| <b>Phantom</b>          | Antennessa (SN:SN41_05_SAM29)           |
| <b>Liquid</b>           | Antennessa                              |



## C. SAR Measurement Results

|   |             |
|---|-------------|
| <b>Frequency (MHz)</b>                        | 1850.400024 |
| <b>Relative permittivity (real part)</b>      | 52.313000   |
| <b>Relative permittivity (imaginary part)</b> | 13.584900   |
| <b>Conductivity (S/m)</b>                     | 1.416522    |
| <b>Variation (%)</b>                          | -0.200000   |



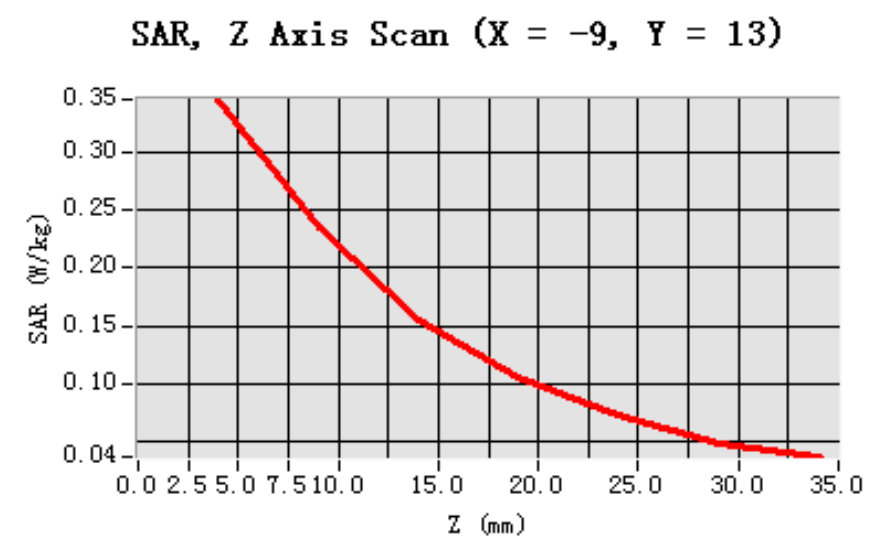
---

**Maximum location: X=-9.00, Y=13.00**

|                      |          |
|----------------------|----------|
| <b>SAR 1g (W/Kg)</b> | 0.389142 |
|----------------------|----------|

---

## Z Axis Scan



---

## MEASUREMENT 2

Type: Phone measurement (Complete)

Date of measurement: 13/5/2010

Measurement duration: 14 minutes 44 seconds

Mobile Phone IMEI number: --

### **A. Experimental conditions.**

|                        |                                     |
|------------------------|-------------------------------------|
| <b>Phantom File</b>    | surf_sam_plan.txt, Adaptative 2 max |
| <b>Phantom</b>         | Validation plane                    |
| <b>Device Position</b> | Body                                |
| <b>Band</b>            | GSM1900                             |
| <b>Channels</b>        | Middle                              |
| <b>Signal</b>          | GSM                                 |

### **B. Instrumentations.**

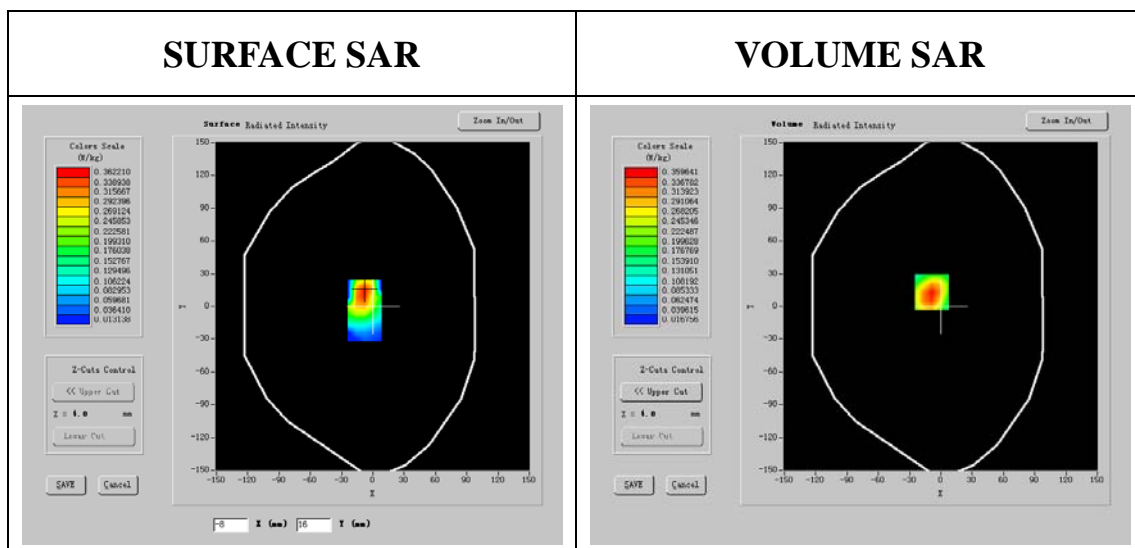
---

|                         |   |
|-------------------------|---|
| <b>PC</b>               | HP (Pentium(R) V3.06GHz, SN:375052-AA1) |
| <b>Network Emulator</b> | R&S (CMU200, SN:B23-03291)              |
| <b>Voltmeter</b>        | Keithley (2000, SN:1015843)             |
| <b>Synthesizer</b>      | Agilent (E8257C, SN:MY43321570)         |
| <b>Amplifier</b>        | Mini-Circuits (ZHL-42, SN:110405)       |
| <b>Power Meter</b>      | Agilent (E4416A, SN:QB41292714)         |
| <b>Probe</b>            | Antennessa (SN:SN11/09 EP100)           |
| <b>Phantom</b>          | Antennessa (SN:SN41_05_SAM29)           |
| <b>Liquid</b>           | Antennessa                              |

## C. SAR Measurement Results

|   |             |
|---|-------------|
| <b>Frequency (MHz)</b>                        | 1880.000000 |
| <b>Relative permittivity (real part)</b>      | 52.893001   |
| <b>Relative permittivity (imaginary part)</b> | 13.813800   |
| <b>Conductivity (S/m)</b>                     | 1.512775    |
| <b>Variation (%)</b>                          | -1.000000   |



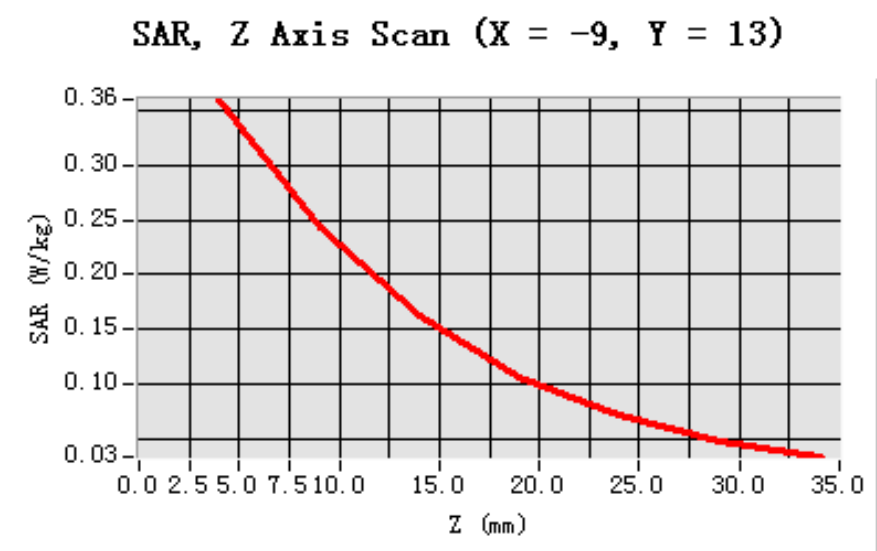
---

**Maximum location: X=-9.00, Y=13.00**

|                      |          |
|----------------------|----------|
| <b>SAR 1g (W/Kg)</b> | 0.325149 |
|----------------------|----------|

---

## Z Axis Scan





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## MEASUREMENT 3

Type: Phone measurement (Complete)

Date of measurement: 13/5/2010

Measurement duration: 14 minutes 44 seconds

Mobile Phone IMEI number: --

### **A. Experimental conditions.**

|                        |                                     |
|------------------------|-------------------------------------|
| <b>Phantom File</b>    | surf_sam_plan.txt, Adaptative 2 max |
| <b>Phantom</b>         | Validation plane                    |
| <b>Device Position</b> | Body                                |
| <b>Band</b>            | GSM1900                             |
| <b>Channels</b>        | High                                |
| <b>Signal</b>          | GSM                                 |

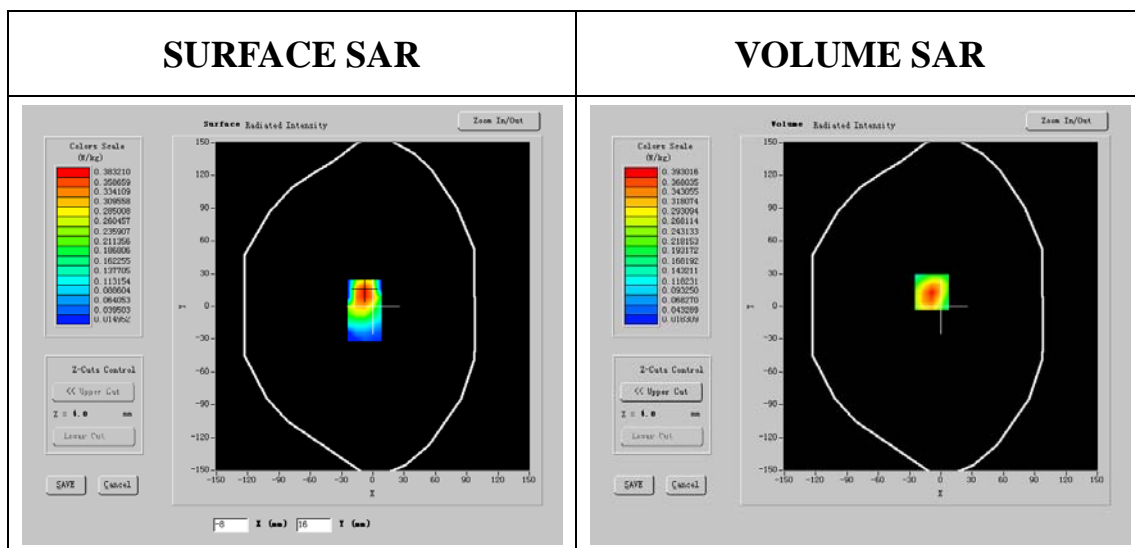
### **B. Instrumentations.**

---

|                         |   |
|-------------------------|---|
| <b>PC</b>               | HP (Pentium(R) V3.06GHz, SN:375052-AA1) |
| <b>Network Emulator</b> | R&S (CMU200, SN:B23-03291)              |
| <b>Voltmeter</b>        | Keithley (2000, SN:1015843)             |
| <b>Synthesizer</b>      | Agilent (E8257C, SN:MY43321570)         |
| <b>Amplifier</b>        | Mini-Circuits (ZHL-42, SN:110405)       |
| <b>Power Meter</b>      | Agilent (E4416A, SN:QB41292714)         |
| <b>Probe</b>            | Antennessa (SN:SN11/09 EP100)           |
| <b>Phantom</b>          | Antennessa (SN:SN41_05_SAM29)           |
| <b>Liquid</b>           | Antennessa                              |

## C. SAR Measurement Results

|   |             |
|---|-------------|
| <b>Frequency (MHz)</b>                        | 1909.599976 |
| <b>Relative permittivity (real part)</b>      | 52.885999   |
| <b>Relative permittivity (imaginary part)</b> | 13.669900   |
| <b>Conductivity (S/m)</b>                     | 1.510225    |
| <b>Variation (%)</b>                          | -0.600000   |



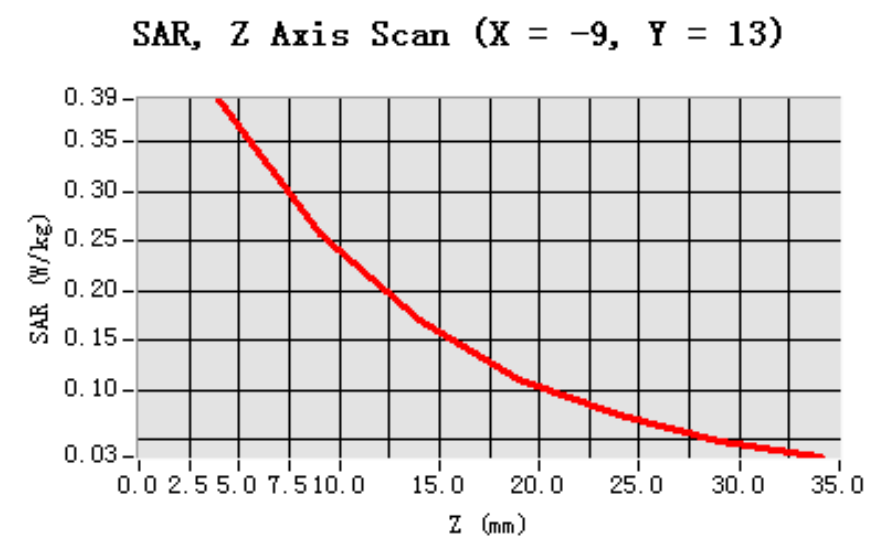
---

**Maximum location: X=-9.00, Y=13.00**

|                      |           |
|----------------------|-----------|
| <b>SAR 1g (W/Kg)</b> | 0.38924s6 |
|----------------------|-----------|

---

## Z Axis Scan



---

# Face up without earphone

## MEASUREMENT 1

Type: Phone measurement (Complete)

Date of measurement: 13/5/2010

Measurement duration: 14 minutes 44 seconds

Mobile Phone IMEI number: --

### **A. Experimental conditions.**

|                        |                                     |
|------------------------|-------------------------------------|
| <b>Phantom File</b>    | surf_sam_plan.txt, Adaptative 2 max |
| <b>Phantom</b>         | Validation plane                    |
| <b>Device Position</b> | Body                                |
| <b>Band</b>            | GSM1900                             |
| <b>Channels</b>        | Low                                 |
| <b>Signal</b>          | GSM                                 |

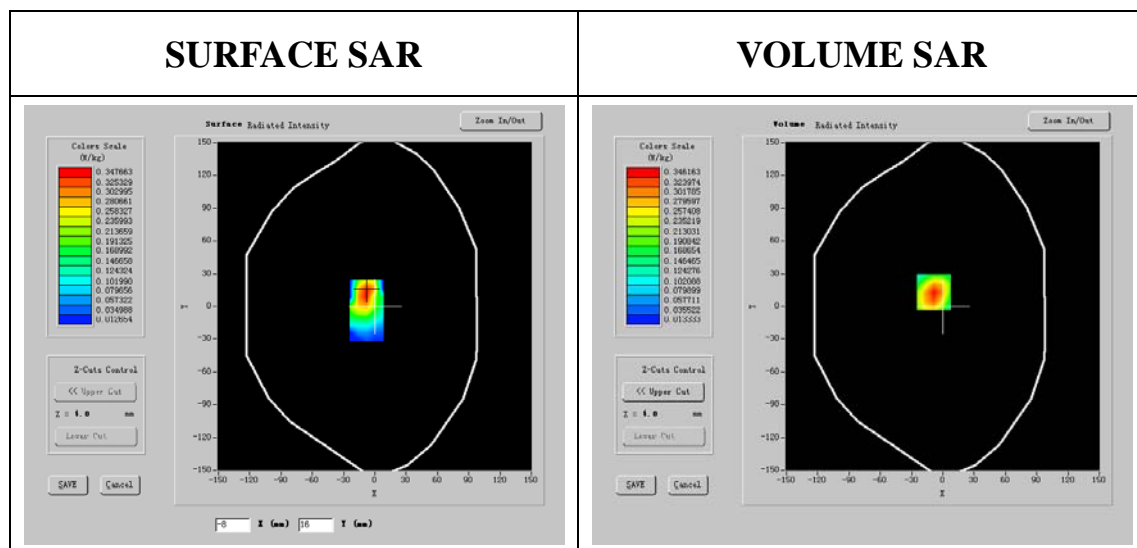
### **B. Instrumentations.**

---

|                         |   |
|-------------------------|---|
| <b>PC</b>               | HP (Pentium(R) V3.06GHz, SN:375052-AA1) |
| <b>Network Emulator</b> | R&S (CMU200, SN:B23-03291)              |
| <b>Voltmeter</b>        | Keithley (2000, SN:1015843)             |
| <b>Synthetizer</b>      | Agilent (E8257C, SN:MY43321570)         |
| <b>Amplifier</b>        | Mini-Circuits (ZHL-42, SN:110405)       |
| <b>Power Meter</b>      | Agilent (E4416A, SN:QB41292714)         |
| <b>Probe</b>            | Antennessa (SN:SN 11-09 EP100)          |
| <b>Phantom</b>          | Antennessa (SN:SN41_05_SAM29)           |
| <b>Liquid</b>           | Antennessa                              |

## C. SAR Measurement Results

|   |             |
|---|-------------|
| <b>Frequency (MHz)</b>                        | 1850.400024 |
| <b>Relative permittivity (real part)</b>      | 54.202574   |
| <b>Relative permittivity (imaginary part)</b> | 13.803214   |
| <b>Conductivity (S/m)</b>                     | 1.596228    |
| <b>Variation (%)</b>                          | -0.100000   |





---

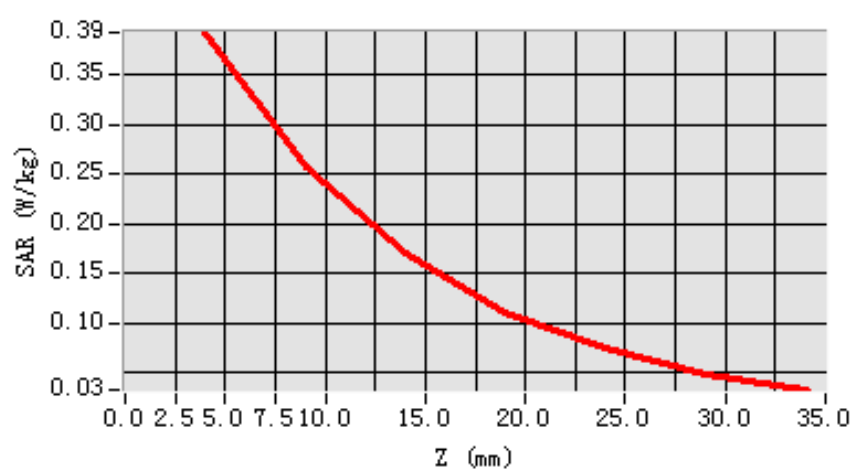
**Maximum location: X=-9.00, Y=13.00**

|                      |          |
|----------------------|----------|
| <b>SAR 1g (W/Kg)</b> | 0.380148 |
|----------------------|----------|

---

## Z Axis Scan

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



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## MEASUREMENT 2

Type: Phone measurement (Complete)

Date of measurement: 13/5/2010

Measurement duration: 14 minutes 44 seconds

Mobile Phone IMEI number: --

### **A. Experimental conditions.**

|                        |                                     |
|------------------------|-------------------------------------|
| <b>Phantom File</b>    | surf_sam_plan.txt, Adaptative 2 max |
| <b>Phantom</b>         | Validation plane                    |
| <b>Device Position</b> | Body                                |
| <b>Band</b>            | GSM1900                             |
| <b>Channels</b>        | Middle                              |
| <b>Signal</b>          | GSM                                 |

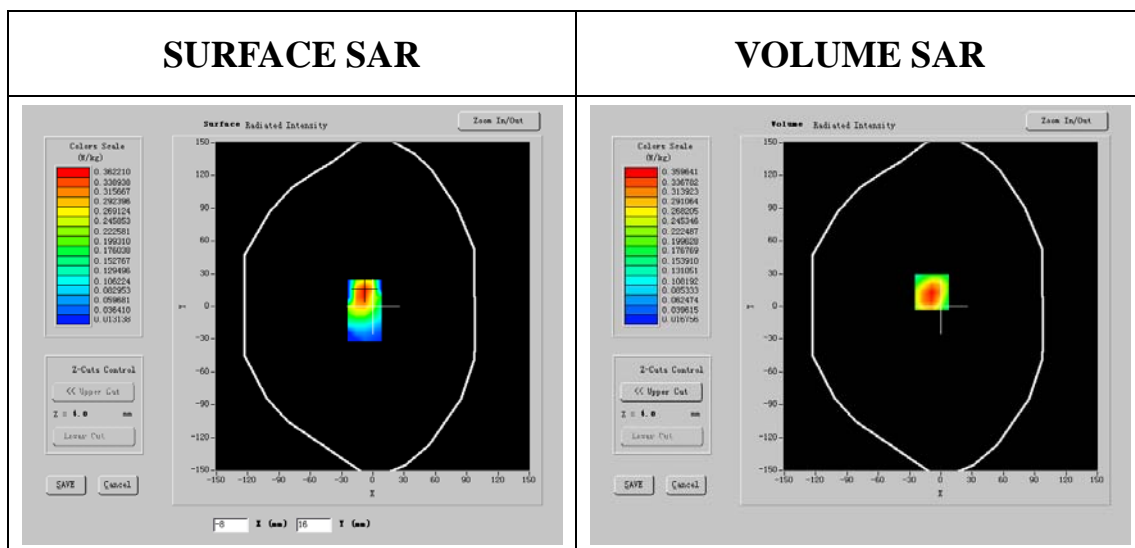
### **B. Instrumentations.**

---

|                         |   |
|-------------------------|---|
| <b>PC</b>               | HP (Pentium(R) V3.06GHz, SN:375052-AA1) |
| <b>Network Emulator</b> | R&S (CMU200, SN:B23-03291)              |
| <b>Voltmeter</b>        | Keithley (2000, SN:1015843)             |
| <b>Synthetizer</b>      | Agilent (E8257C, SN:MY43321570)         |
| <b>Amplifier</b>        | Mini-Circuits (ZHL-42, SN:110405)       |
| <b>Power Meter</b>      | Agilent (E4416A, SN:QB41292714)         |
| <b>Probe</b>            | Antennessa (SN:SN 11-09 EP100)          |
| <b>Phantom</b>          | Antennessa (SN:SN41_05_SAM29)           |
| <b>Liquid</b>           | Antennessa                              |

## C. SAR Measurement Results

|   |             |
|---|-------------|
| <b>Frequency (MHz)</b>                        | 1880.000000 |
| <b>Relative permittivity (real part)</b>      | 54.021431   |
| <b>Relative permittivity (imaginary part)</b> | 13.752100   |
| <b>Conductivity (S/m)</b>                     | 1.582075    |
| <b>Variation (%)</b>                          | -0.100000   |



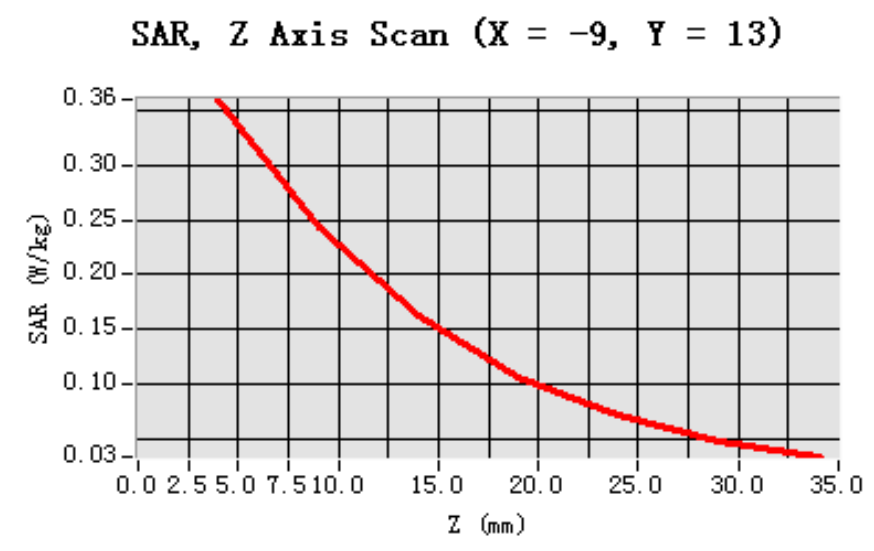
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**Maximum location: X=-9.00, Y=13.00**

|                      |          |
|----------------------|----------|
| <b>SAR 1g (W/Kg)</b> | 0.326460 |
|----------------------|----------|

---

## Z Axis Scan



---

## MEASUREMENT 3

Type: Phone measurement (Complete)

Date of measurement: 13/5/2010

Measurement duration: 14 minutes 44 seconds

Mobile Phone IMEI number: --

### **A. Experimental conditions.**

|                        |                                     |
|------------------------|-------------------------------------|
| <b>Phantom File</b>    | surf_sam_plan.txt, Adaptative 2 max |
| <b>Phantom</b>         | Validation plane                    |
| <b>Device Position</b> | Body                                |
| <b>Band</b>            | GSM1900                             |
| <b>Channels</b>        | High                                |
| <b>Signal</b>          | GSM                                 |

### **B. Instrumentations.**

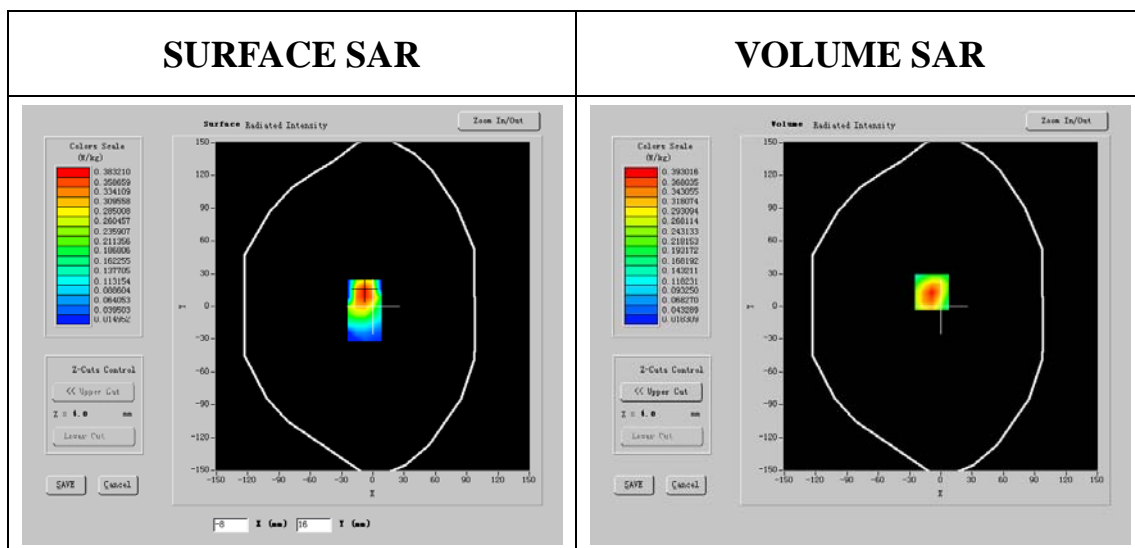


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|                         |   |
|-------------------------|---|
| <b>PC</b>               | HP (Pentium(R) V3.06GHz, SN:375052-AA1) |
| <b>Network Emulator</b> | R&S (CMU200, SN:B23-03291)              |
| <b>Voltmeter</b>        | Keithley (2000, SN:1015843)             |
| <b>Synthesizer</b>      | Agilent (E8257C, SN:MY43321570)         |
| <b>Amplifier</b>        | Mini-Circuits (ZHL-42, SN:110405)       |
| <b>Power Meter</b>      | Agilent (E4416A, SN:QB41292714)         |
| <b>Probe</b>            | Antennessa (SN:SN 11-09 EP100)          |
| <b>Phantom</b>          | Antennessa (SN:SN41_05_SAM29)           |
| <b>Liquid</b>           | Antennessa                              |

## C. SAR Measurement Results

|   |             |
|---|-------------|
| <b>Frequency (MHz)</b>                        | 1909.599976 |
| <b>Relative permittivity (real part)</b>      | 54.121302   |
| <b>Relative permittivity (imaginary part)</b> | 13.790000   |
| <b>Conductivity (S/m)</b>                     | 1.589635    |
| <b>Variation (%)</b>                          | -0.600000   |



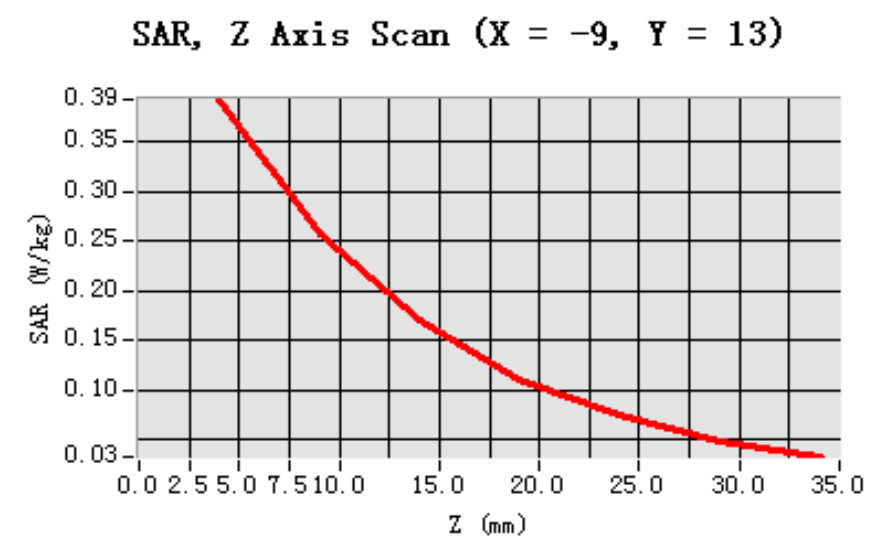
---

**Maximum location: X=-9.00, Y=13.00**

|                      |          |
|----------------------|----------|
| <b>SAR 1g (W/Kg)</b> | 0.387321 |
|----------------------|----------|

---

## Z Axis Scan



---

# Face down without earphone

## MEASUREMENT 1

Type: Phone measurement (Complete)

Date of measurement: 13/5/2010

Measurement duration: 14 minutes 44 seconds

Mobile Phone IMEI number: --

### **A. Experimental conditions.**

|                        |                                     |
|------------------------|-------------------------------------|
| <b>Phantom File</b>    | surf_sam_plan.txt, Adaptative 2 max |
| <b>Phantom</b>         | Validation plane                    |
| <b>Device Position</b> | Body                                |
| <b>Band</b>            | GSM1900                             |
| <b>Channels</b>        | Low                                 |
| <b>Signal</b>          | GSM                                 |

### **B. Instrumentations.**

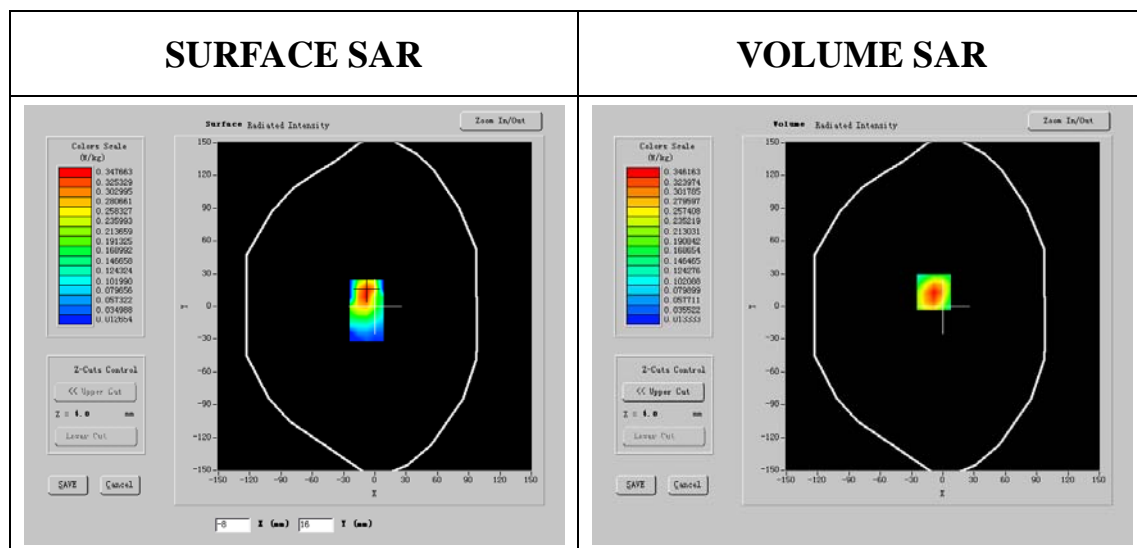
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|                         |   |
|-------------------------|---|
| <b>PC</b>               | HP (Pentium(R) V3.06GHz, SN:375052-AA1) |
| <b>Network Emulator</b> | R&S (CMU200, SN:B23-03291)              |
| <b>Voltmeter</b>        | Keithley (2000, SN:1015843)             |
| <b>Synthesizer</b>      | Agilent (E8257C, SN:MY43321570)         |
| <b>Amplifier</b>        | Mini-Circuits (ZHL-42, SN:110405)       |
| <b>Power Meter</b>      | Agilent (E4416A, SN:QB41292714)         |
| <b>Probe</b>            | Antennessa (SN:SN 11-09 EP100)          |
| <b>Phantom</b>          | Antennessa (SN:SN41_05_SAM29)           |
| <b>Liquid</b>           | Antennessa                              |

## C. SAR Measurement Results

|   |             |
|---|-------------|
| <b>Frequency (MHz)</b>                        | 1850.400024 |
| <b>Relative permittivity (real part)</b>      | 54.201021   |
| <b>Relative permittivity (imaginary part)</b> | 13.782520   |
| <b>Conductivity (S/m)</b>                     | 1.565248    |
| <b>Variation (%)</b>                          | -0.100000   |



---

**Maximum location: X=-9.00, Y=13.00**

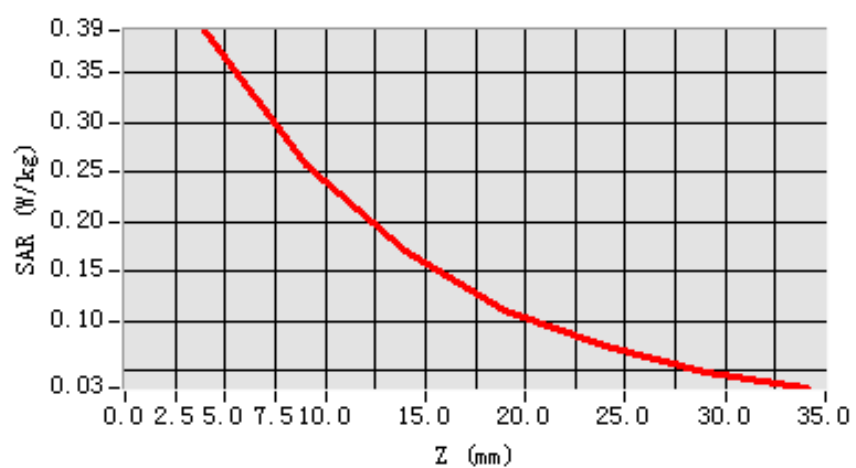
|                      |          |
|----------------------|----------|
| <b>SAR 1g (W/Kg)</b> | 0.392138 |
|----------------------|----------|



---

## Z Axis Scan

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



---

## MEASUREMENT 2

Type: Phone measurement (Complete)

Date of measurement: 13/5/2010

Measurement duration: 14 minutes 44 seconds

Mobile Phone IMEI number: --

### **A. Experimental conditions.**

|                        |                                     |
|------------------------|-------------------------------------|
| <b>Phantom File</b>    | surf_sam_plan.txt, Adaptative 2 max |
| <b>Phantom</b>         | Validation plane                    |
| <b>Device Position</b> | Body                                |
| <b>Band</b>            | GSM1900                             |
| <b>Channels</b>        | Middle                              |
| <b>Signal</b>          | GSM                                 |

### **B. Instrumentations.**

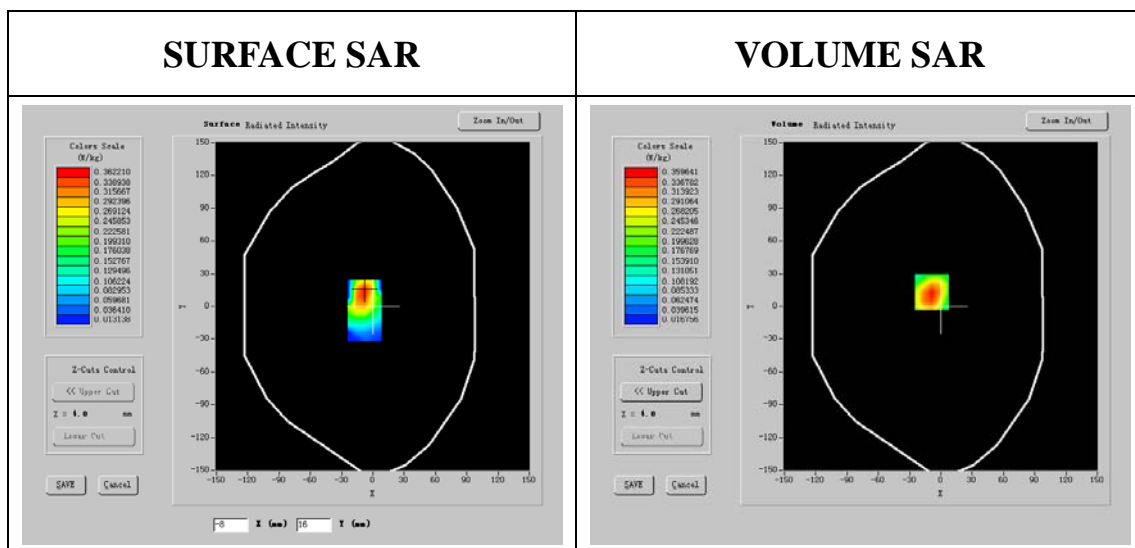
---

|                         |   |
|-------------------------|---|
| <b>PC</b>               | HP (Pentium(R) V3.06GHz, SN:375052-AA1) |
| <b>Network Emulator</b> | R&S (CMU200, SN:B23-03291)              |
| <b>Voltmeter</b>        | Keithley (2000, SN:1015843)             |
| <b>Synthetizer</b>      | Agilent (E8257C, SN:MY43321570)         |
| <b>Amplifier</b>        | Mini-Circuits (ZHL-42, SN:110405)       |
| <b>Power Meter</b>      | Agilent (E4416A, SN:QB41292714)         |
| <b>Probe</b>            | Antennessa (SN:SN 11-09 EP100)          |
| <b>Phantom</b>          | Antennessa (SN:SN41_05_SAM29)           |
| <b>Liquid</b>           | Antennessa                              |

## C. SAR Measurement Results

|   |             |
|---|-------------|
| <b>Frequency (MHz)</b>                        | 1880.000000 |
| <b>Relative permittivity (real part)</b>      | 53.874001   |
| <b>Relative permittivity (imaginary part)</b> | 13.801100   |
| <b>Conductivity (S/m)</b>                     | 1.586375    |
| <b>Variation (%)</b>                          | -0.100000   |



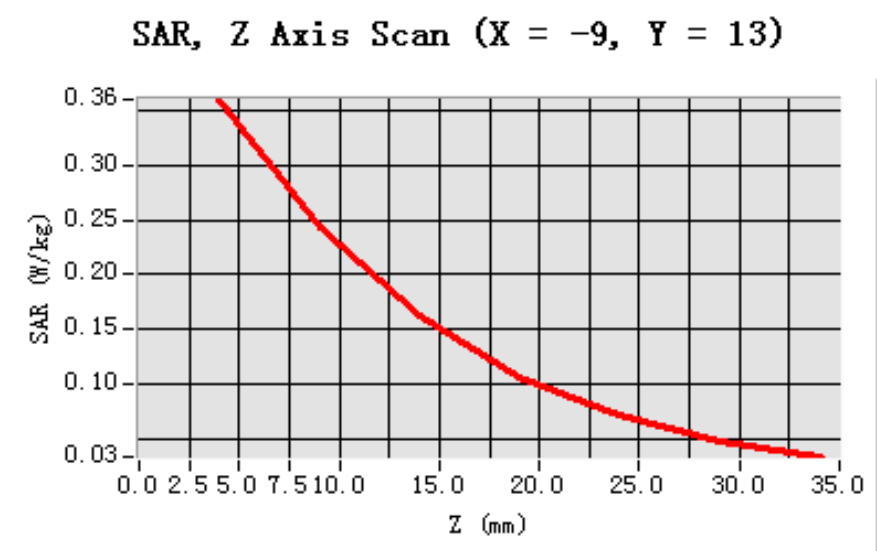
---

**Maximum location: X=-9.00, Y=13.00**

|                      |          |
|----------------------|----------|
| <b>SAR 1g (W/Kg)</b> | 0.329360 |
|----------------------|----------|

---

## Z Axis Scan



---

## MEASUREMENT 3

Type: Phone measurement (Complete)

Date of measurement: 13/5/2010

Measurement duration: 14 minutes 44 seconds

Mobile Phone IMEI number: --

### **A. Experimental conditions.**

|                        |                                     |
|------------------------|-------------------------------------|
| <b>Phantom File</b>    | surf_sam_plan.txt, Adaptative 2 max |
| <b>Phantom</b>         | Validation plane                    |
| <b>Device Position</b> | Body                                |
| <b>Band</b>            | GSM1900                             |
| <b>Channels</b>        | High                                |
| <b>Signal</b>          | GSM                                 |

### **B. Instrumentations.**

---

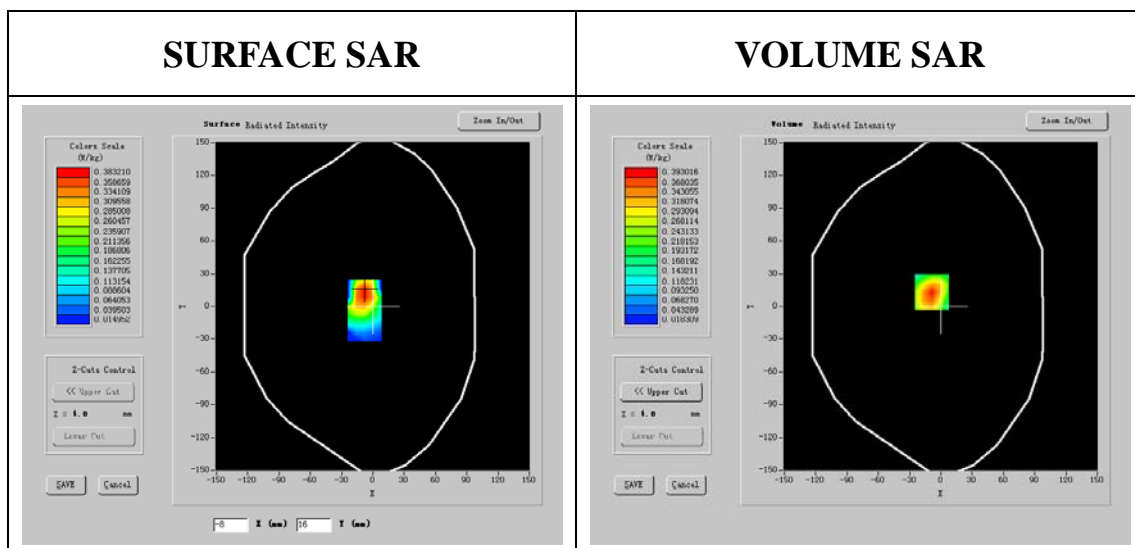
  

|                         |   |
|-------------------------|---|
| <b>PC</b>               | HP (Pentium(R) V3.06GHz, SN:375052-AA1) |
| <b>Network Emulator</b> | R&S (CMU200, SN:B23-03291)              |
| <b>Voltmeter</b>        | Keithley (2000, SN:1015843)             |
| <b>Synthesizer</b>      | Agilent (E8257C, SN:MY43321570)         |
| <b>Amplifier</b>        | Mini-Circuits (ZHL-42, SN:110405)       |
| <b>Power Meter</b>      | Agilent (E4416A, SN:QB41292714)         |
| <b>Probe</b>            | Antennessa (SN:SN 11-09 EP100)          |
| <b>Phantom</b>          | Antennessa (SN:SN41_05_SAM29)           |
| <b>Liquid</b>           | Antennessa                              |



## C. SAR Measurement Results

|   |             |
|---|-------------|
| <b>Frequency (MHz)</b>                        | 1909.599976 |
| <b>Relative permittivity (real part)</b>      | 52.925419   |
| <b>Relative permittivity (imaginary part)</b> | 13.692500   |
| <b>Conductivity (S/m)</b>                     | 1.591025    |
| <b>Variation (%)</b>                          | -0.600000   |



---

**Maximum location: X=-9.00, Y=13.00**

|                      |          |
|----------------------|----------|
| <b>SAR 1g (W/Kg)</b> | 0.396011 |
|----------------------|----------|

---

## GPRS 850

### I. RESULTS

| <b><u>TYPE</u></b>       | <b><u>BAND</u></b> | <b><u>PARAMETERS</u></b>   |
|--------------------------|--------------------|--|
| <b><u>Noise</u></b>      | --                 | --   |
| <b><u>Validation</u></b> | --                 | --   |
| <b><u>Phone</u></b>      | GPRS850            | <u>Measurement 1:</u> Validation Plane with Body device position on Low Channel in GPRS mode<br><u>Measurement 2:</u> Validation Plane with Body device position on Middle Channel in GPRS mode<br><u>Measurement 3:</u> Validation Plane with Body device position on High Channel in GPRS mode |

---

## Face up with earphone

### **MEASUREMENT 1**

Type: Phone measurement (Complete)

Date of measurement: 13/5/2010

Measurement duration: 14 minutes 29 seconds

Mobile Phone IMEI number:

#### **A. Experimental conditions.**

|                        |                                   |
|------------------------|-----------------------------------|
| <b>Phantom File</b>    | surf_sam_plan.txt, Adaptive 2 max |
| <b>Phantom</b>         | Validation plane                  |
| <b>Device Position</b> | Body                              |
| <b>Band</b>            | GPRS850                           |
| <b>Channels</b>        | Low                               |
| <b>Signal</b>          | GPRS                              |

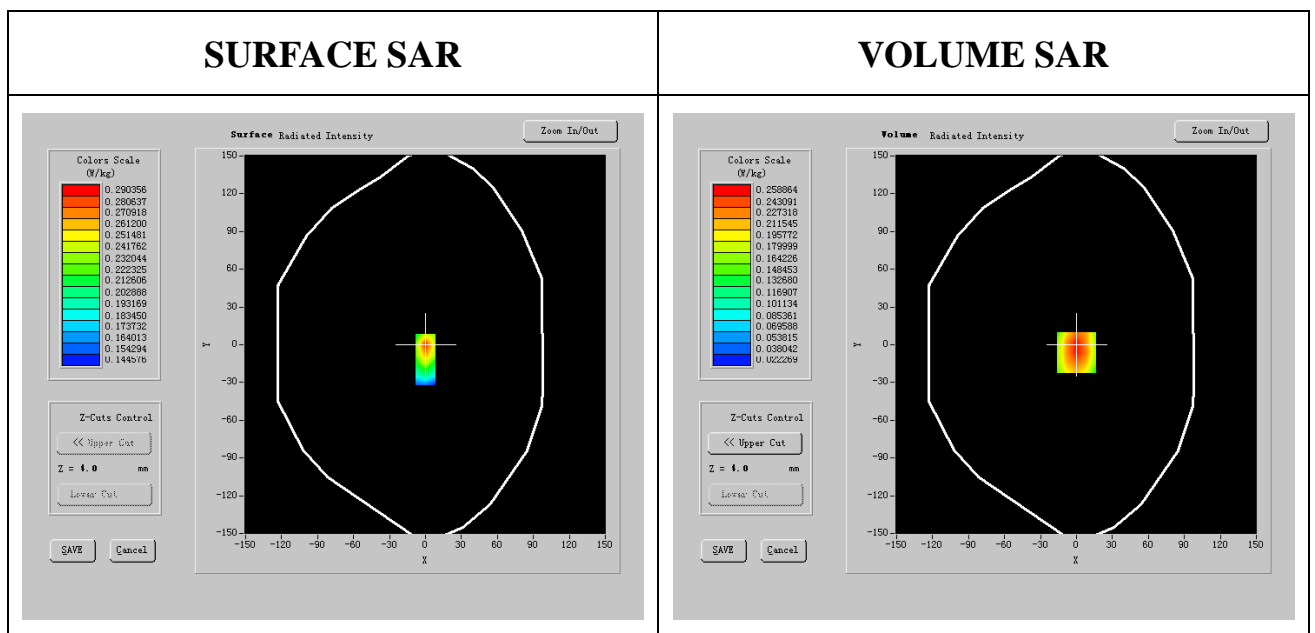
---

## **B. Instrumentations.**

|                         |  |
|-------------------------|--|
| <b>PC</b>               | HP (Pentium(R) V 3.06GHz, SN:375052-AA1) |
| <b>Network Emulator</b> | R&S (CMU200, SN:B23-03291)               |
| <b>Voltmeter</b>        | Keithley (2000, SN:1015843)              |
| <b>Synthesizer</b>      | Agilent (E8257C, SN:MY43321570)          |
| <b>Amplifier</b>        | Mini-Circuits (ZHL-42, SN:110405)        |
| <b>Power Meter</b>      | Agilent (E4416A, SN:QB41292714)          |
| <b>Probe</b>            | Antennessa (SN:SN_1109_EP_100)           |
| <b>Phantom</b>          | Antennessa (SN:SN41_05_SAM29)            |
| <b>Liquid</b>           | Antennessa                               |

## C. SAR Measurement Results

|   |            |
|---|------------|
| <b>Frequency (MHz)</b>                        | 824.200012 |
| <b>Relative permittivity (real part)</b>      | 55.546230  |
| <b>Relative permittivity (imaginary part)</b> | 21.653000  |
| <b>Conductivity (S/m)</b>                     | 0.959410   |
| <b>Variation (%)</b>                          | -0.100000  |



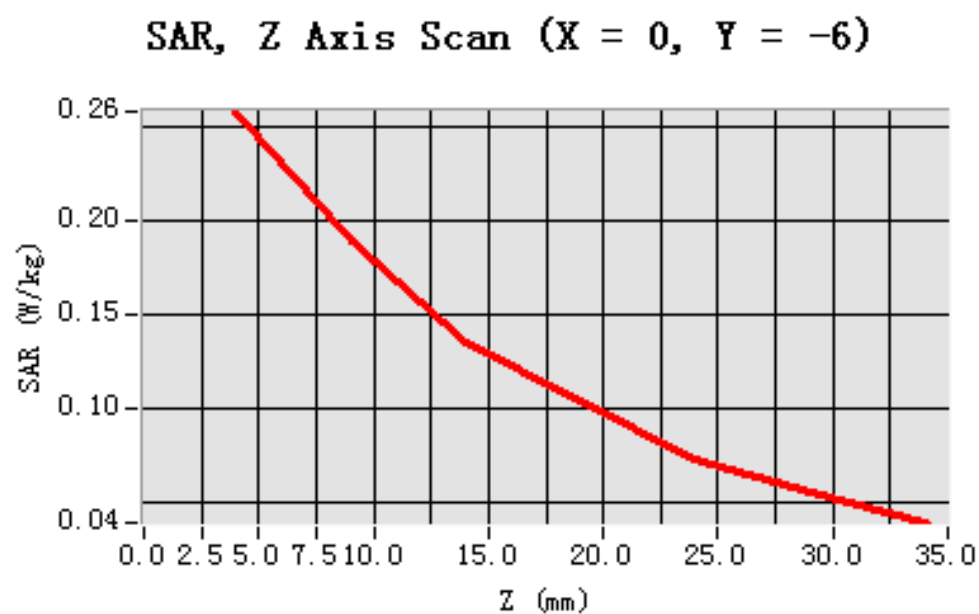
---

**Maximum location: X=0.00, Y=-6.00**

|                      |          |
|----------------------|----------|
| <b>SAR 1g (W/Kg)</b> | 0.290911 |
|----------------------|----------|

---

### Z Axis Scan





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## MEASUREMENT 2

Type: Phone measurement (Complete)

Date of measurement: 13/5/2010

Measurement duration: 14 minutes 29 seconds

Mobile Phone IMEI number:

### **A. Experimental conditions.**

|                        |                                   |
|------------------------|-----------------------------------|
| <b>Phantom File</b>    | surf_sam_plan.txt, Adaptive 2 max |
| <b>Phantom</b>         | Validation plane                  |
| <b>Device Position</b> | Body                              |
| <b>Band</b>            | GPRS850                           |
| <b>Channels</b>        | Middle                            |
| <b>Signal</b>          | GPRS                              |

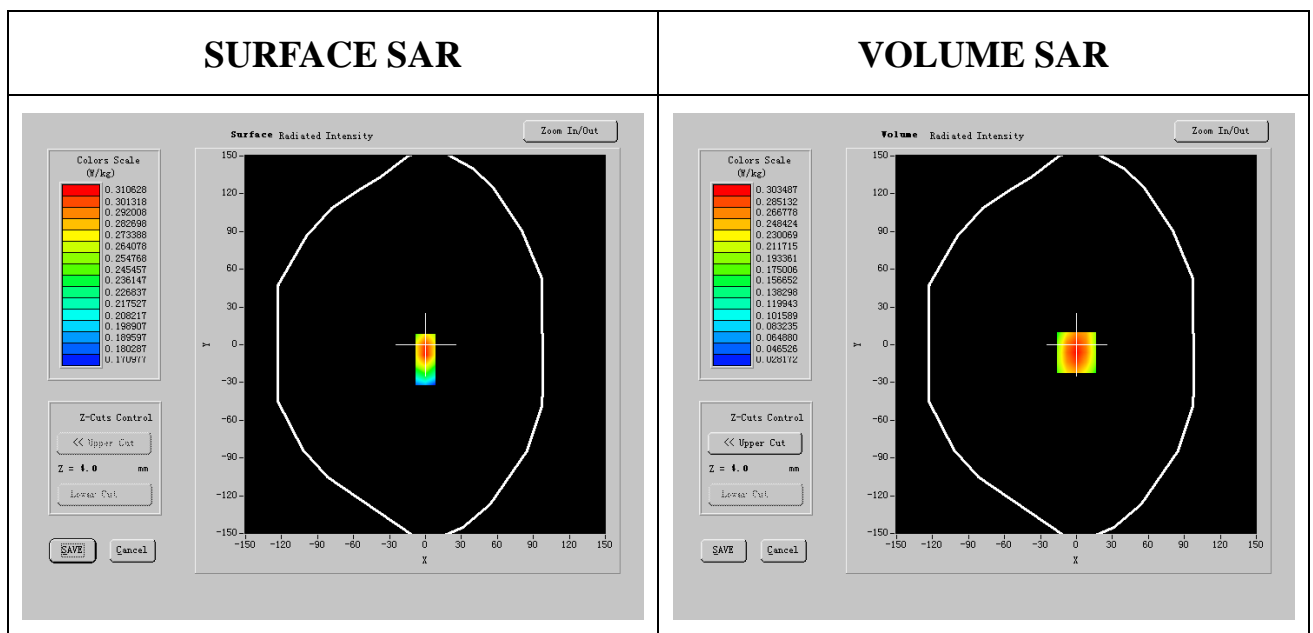
---

## **B. Instrumentations.**

|                         |  |
|-------------------------|--|
| <b>PC</b>               | HP (Pentium(R) V 3.06GHz, SN:375052-AA1) |
| <b>Network Emulator</b> | R&S (CMU200, SN:B23-03291)               |
| <b>Voltmeter</b>        | Keithley (2000, SN:1015843)              |
| <b>Synthesizer</b>      | Agilent (E8257C, SN:MY43321570)          |
| <b>Amplifier</b>        | Mini-Circuits (ZHL-42, SN:110405)        |
| <b>Power Meter</b>      | Agilent (E4416A, SN:QB41292714)          |
| <b>Probe</b>            | Antennessa (SN:SN_1109_EP_100)           |
| <b>Phantom</b>          | Antennessa (SN:SN41_05_SAM29)            |
| <b>Liquid</b>           | Antennessa                               |

## C. SAR Measurement Results

|   |            |
|---|------------|
| <b>Frequency (MHz)</b>                        | 836.600004 |
| <b>Relative permittivity (real part)</b>      | 55.512029  |
| <b>Relative permittivity (imaginary part)</b> | 21.810209  |
| <b>Conductivity (S/m)</b>                     | 0.920212   |
| <b>Variation (%)</b>                          | -0.120000  |



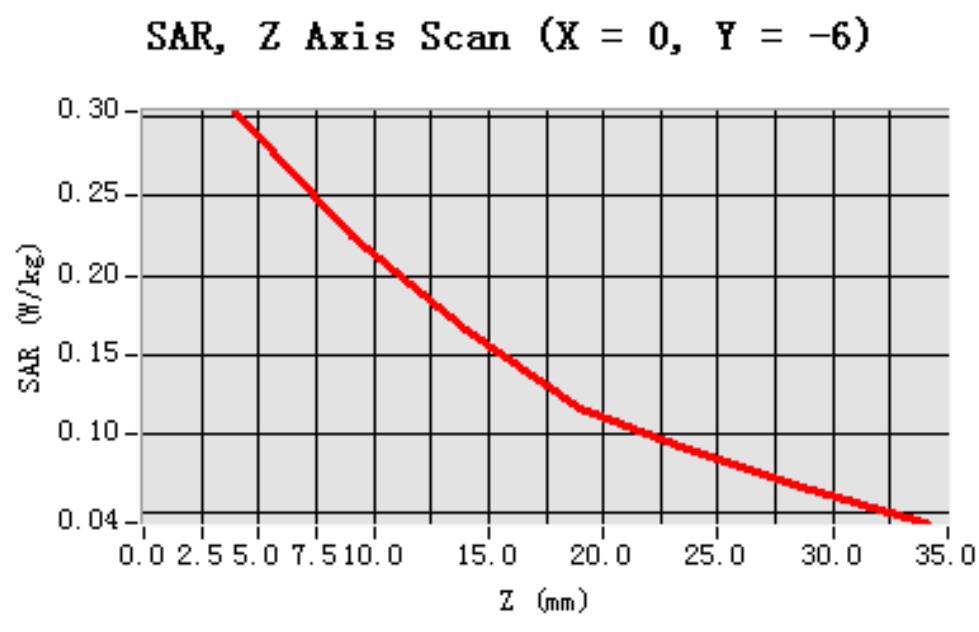
---

**Maximum location: X=0.00, Y=-6.00**

|                      |          |
|----------------------|----------|
| <b>SAR 1g (W/Kg)</b> | 0.363226 |
|----------------------|----------|

---

### Z Axis Scan



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## MEASUREMENT 3

Type: Phone measurement (Complete)

Date of measurement: 13/5/2010

Measurement duration: 14 minutes 29 seconds

Mobile Phone IMEI number:

### **A. Experimental conditions.**

|                        |                                   |
|------------------------|-----------------------------------|
| <b>Phantom File</b>    | surf_sam_plan.txt, Adaptive 2 max |
| <b>Phantom</b>         | Validation plane                  |
| <b>Device Position</b> | Body                              |
| <b>Band</b>            | GPRS850                           |
| <b>Channels</b>        | High                              |
| <b>Signal</b>          | GPRS                              |

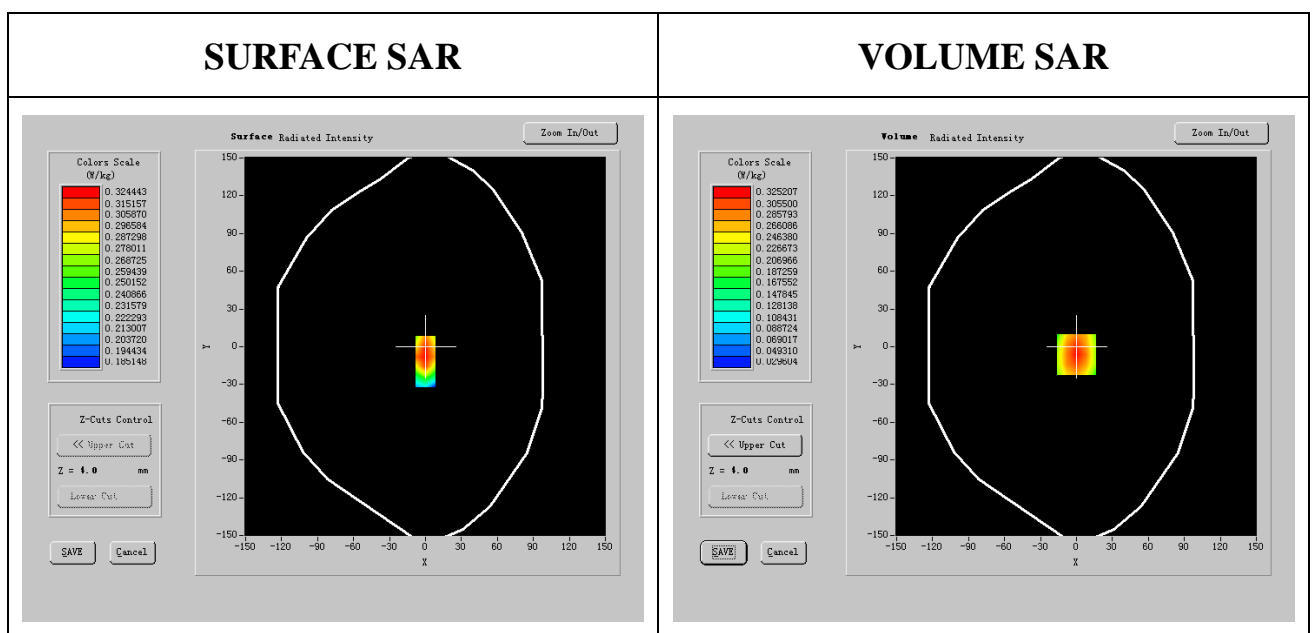
### **B. Instrumentations.**

---

|                         |  |
|-------------------------|--|
| <b>PC</b>               | HP (Pentium(R) V 3.06GHz, SN:375052-AA1) |
| <b>Network Emulator</b> | R&S (CMU200, SN:B23-03291)               |
| <b>Voltmeter</b>        | Keithley (2000, SN:1015843)              |
| <b>Synthetizer</b>      | Agilent (E8257C, SN:MY43321570)          |
| <b>Amplifier</b>        | Mini-Circuits (ZHL-42, SN:110405)        |
| <b>Power Meter</b>      | Agilent (E4416A, SN:QB41292714)          |
| <b>Probe</b>            | Antennessa (SN:SN_1109_EP_100)           |
| <b>Phantom</b>          | Antennessa (SN:SN41_05_SAM29)            |
| <b>Liquid</b>           | Antennessa                               |

## C. SAR Measurement Results

|   |            |
|---|------------|
| <b>Frequency (MHz)</b>                        | 848.799001 |
| <b>Relative permittivity (real part)</b>      | 55.532010  |
| <b>Relative permittivity (imaginary part)</b> | 21.720101  |
| <b>Conductivity (S/m)</b>                     | 0.969012   |
| <b>Variation (%)</b>                          | -0.200000  |





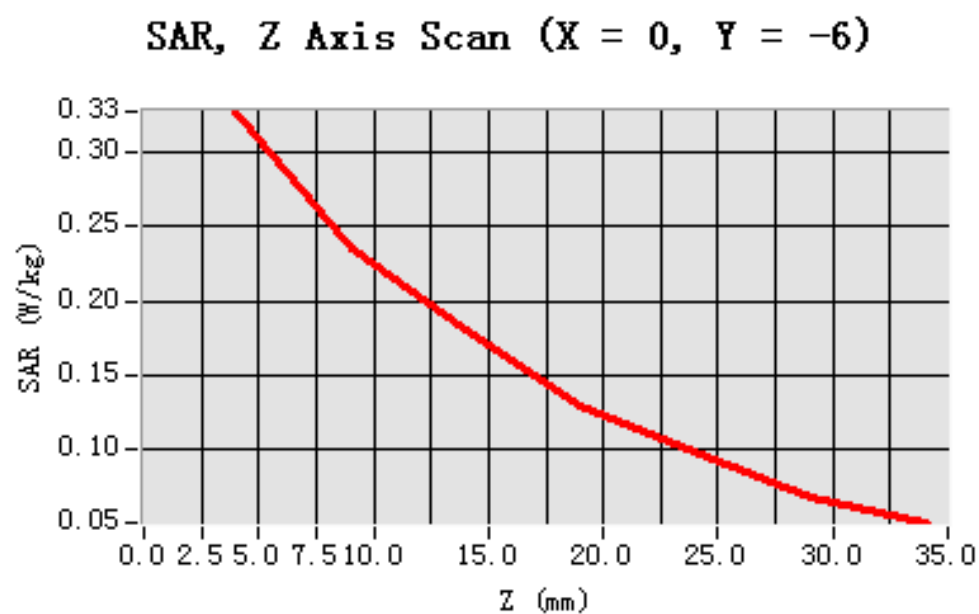
---

**Maximum location: X=0.00, Y=-6.00**

|                      |          |
|----------------------|----------|
| <b>SAR 1g (W/Kg)</b> | 0.350077 |
|----------------------|----------|

---

## Z Axis Scan



---

# Face down with earphone

## MEASUREMENT 1

Type: Phone measurement (Complete)

Date of measurement: 13/5/2010

Measurement duration: 14 minutes 29 seconds

Mobile Phone IMEI number:

### **A. Experimental conditions.**

|                        |                                   |
|------------------------|-----------------------------------|
| <b>Phantom File</b>    | surf_sam_plan.txt, Adaptive 2 max |
| <b>Phantom</b>         | Validation plane                  |
| <b>Device Position</b> | Body                              |
| <b>Band</b>            | GPRS850                           |
| <b>Channels</b>        | Low                               |
| <b>Signal</b>          | GPRS                              |

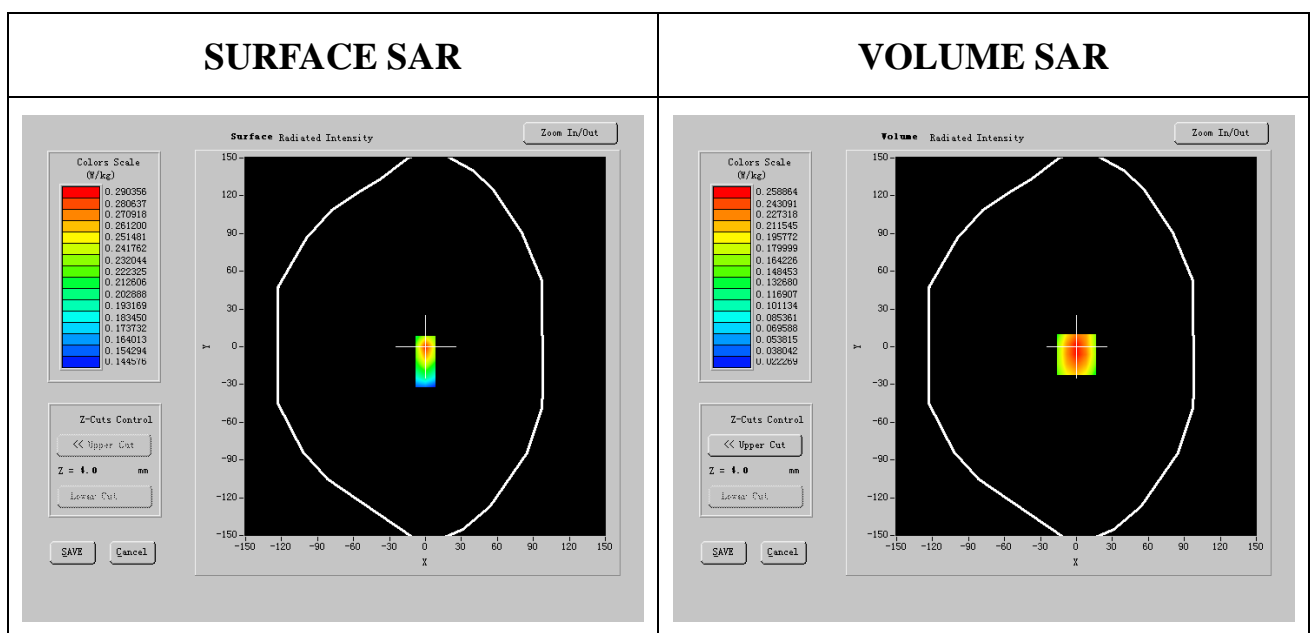
---

## **B. Instrumentations.**

|                         |  |
|-------------------------|--|
| <b>PC</b>               | HP (Pentium(R) V 3.06GHz, SN:375052-AA1) |
| <b>Network Emulator</b> | R&S (CMU200, SN:B23-03291)               |
| <b>Voltmeter</b>        | Keithley (2000, SN:1015843)              |
| <b>Synthesizer</b>      | Agilent (E8257C, SN:MY43321570)          |
| <b>Amplifier</b>        | Mini-Circuits (ZHL-42, SN:110405)        |
| <b>Power Meter</b>      | Agilent (E4416A, SN:QB41292714)          |
| <b>Probe</b>            | Antennessa (SN:SN_1109_EP_100)           |
| <b>Phantom</b>          | Antennessa (SN:SN41_05_SAM29)            |
| <b>Liquid</b>           | Antennessa                               |

## C. SAR Measurement Results

|   |            |
|---|------------|
| <b>Frequency (MHz)</b>                        | 824.200012 |
| <b>Relative permittivity (real part)</b>      | 55.910100  |
| <b>Relative permittivity (imaginary part)</b> | 21.987050  |
| <b>Conductivity (S/m)</b>                     | 0.987519   |
| <b>Variation (%)</b>                          | 0.100000   |



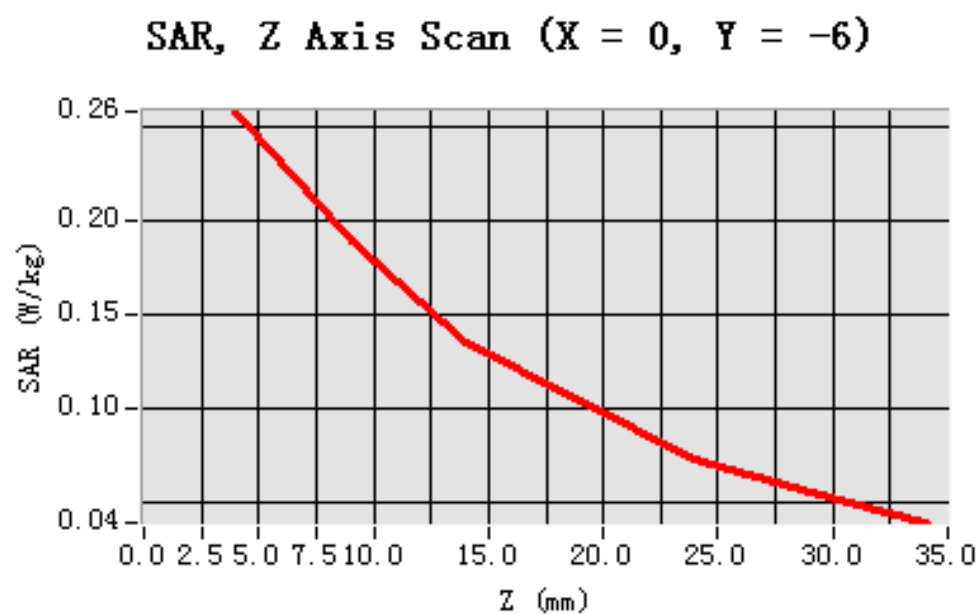
---

**Maximum location: X=0.00, Y=-6.00**

|                      |          |
|----------------------|----------|
| <b>SAR 1g (W/Kg)</b> | 0.287238 |
|----------------------|----------|

---

### Z Axis Scan



---

## MEASUREMENT 2

Type: Phone measurement (Complete)

Date of measurement: 13/5/2010

Measurement duration: 14 minutes 29 seconds

Mobile Phone IMEI number:

### **A. Experimental conditions.**

|                        |                                   |
|------------------------|-----------------------------------|
| <b>Phantom File</b>    | surf_sam_plan.txt, Adaptive 2 max |
| <b>Phantom</b>         | Validation plane                  |
| <b>Device Position</b> | Body                              |
| <b>Band</b>            | GPRS850                           |
| <b>Channels</b>        | Middle                            |
| <b>Signal</b>          | GPRS                              |



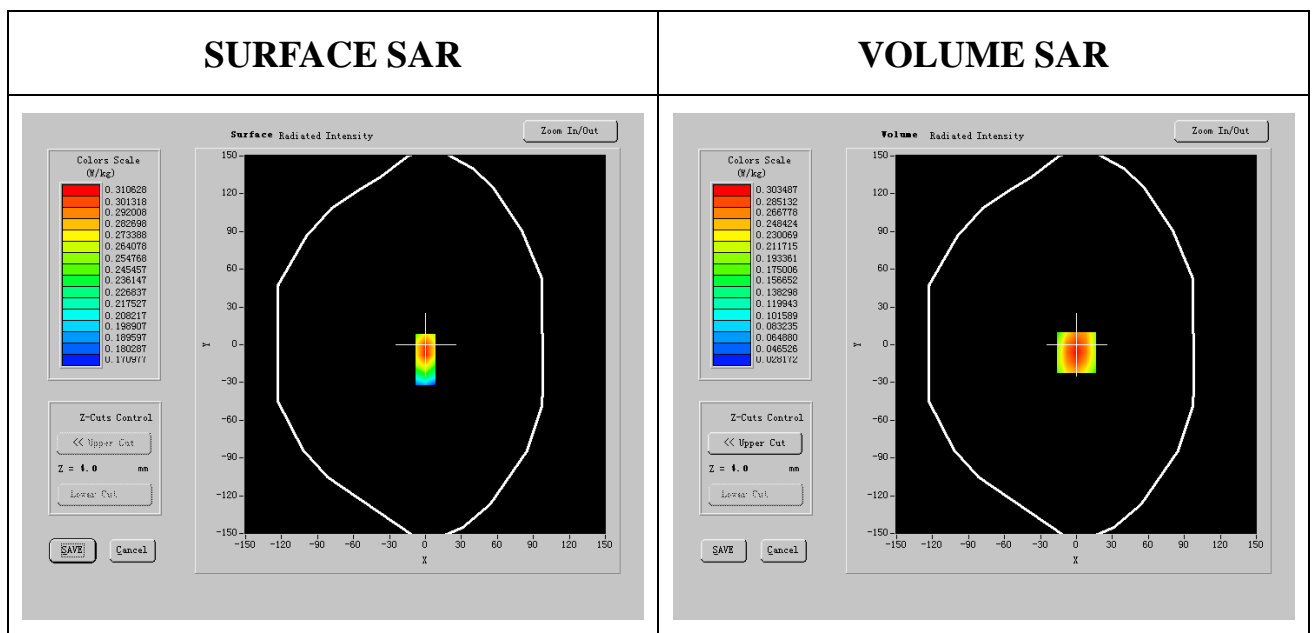
---

## **B. Instrumentations.**

|                         |  |
|-------------------------|--|
| <b>PC</b>               | HP (Pentium(R) V 3.06GHz, SN:375052-AA1) |
| <b>Network Emulator</b> | R&S (CMU200, SN:B23-03291)               |
| <b>Voltmeter</b>        | Keithley (2000, SN:1015843)              |
| <b>Synthetizer</b>      | Agilent (E8257C, SN:MY43321570)          |
| <b>Amplifier</b>        | Mini-Circuits (ZHL-42, SN:110405)        |
| <b>Power Meter</b>      | Agilent (E4416A, SN:QB41292714)          |
| <b>Probe</b>            | Antennessa (SN:SN_1109_EP_100)           |
| <b>Phantom</b>          | Antennessa (SN:SN41_05_SAM29)            |
| <b>Liquid</b>           | Antennessa                               |

## C. SAR Measurement Results

|   |            |
|---|------------|
| <b>Frequency (MHz)</b>                        | 836.400024 |
| <b>Relative permittivity (real part)</b>      | 55.903400  |
| <b>Relative permittivity (imaginary part)</b> | 21.958079  |
| <b>Conductivity (S/m)</b>                     | 0.978922   |
| <b>Variation (%)</b>                          | -0.100000  |



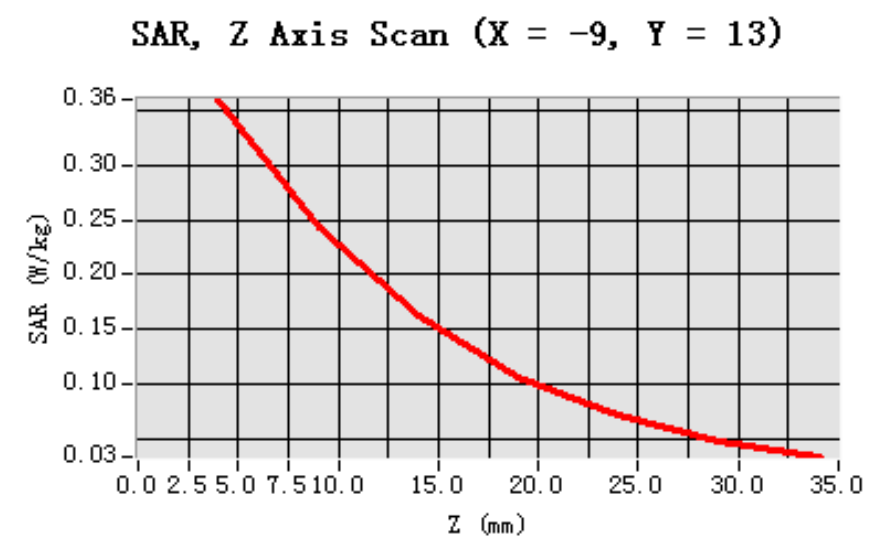
---

**Maximum location: X=0.00, Y=-6.00**

|                      |          |
|----------------------|----------|
| <b>SAR 1g (W/Kg)</b> | 0.360325 |
|----------------------|----------|

---

## Z Axis Scan



---

## MEASUREMENT 3

Type: Phone measurement (Complete)

Date of measurement: 13/5/2010

Measurement duration: 14 minutes 29 seconds

Mobile Phone IMEI number:

### **A. Experimental conditions.**

|                        |                                   |
|------------------------|-----------------------------------|
| <b>Phantom File</b>    | surf_sam_plan.txt, Adaptive 2 max |
| <b>Phantom</b>         | Validation plane                  |
| <b>Device Position</b> | Body                              |
| <b>Band</b>            | GPRS850                           |
| <b>Channels</b>        | High                              |
| <b>Signal</b>          | GPRS                              |

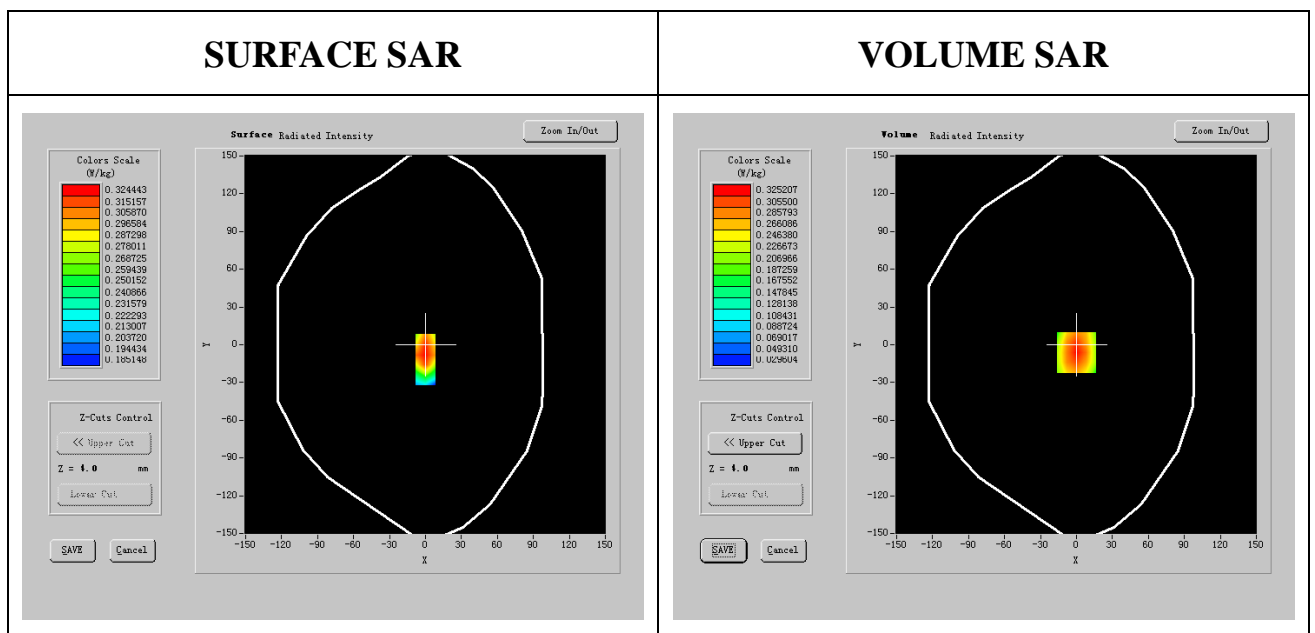
### **B. Instrumentations.**

---

|                         |  |
|-------------------------|--|
| <b>PC</b>               | HP (Pentium(R) V 3.06GHz, SN:375052-AA1) |
| <b>Network Emulator</b> | R&S (CMU200, SN:B23-03291)               |
| <b>Voltmeter</b>        | Keithley (2000, SN:1015843)              |
| <b>Synthetizer</b>      | Agilent (E8257C, SN:MY43321570)          |
| <b>Amplifier</b>        | Mini-Circuits (ZHL-42, SN:110405)        |
| <b>Power Meter</b>      | Agilent (E4416A, SN:QB41292714)          |
| <b>Probe</b>            | Antennessa (SN:SN_1109_EP_100)           |
| <b>Phantom</b>          | Antennessa (SN:SN41_05_SAM29)            |
| <b>Liquid</b>           | Antennessa                               |

## C. SAR Measurement Results

|   |            |
|---|------------|
| <b>Frequency (MHz)</b>                        | 848.599976 |
| <b>Relative permittivity (real part)</b>      | 55.890110  |
| <b>Relative permittivity (imaginary part)</b> | 21.957211  |
| <b>Conductivity (S/m)</b>                     | 0.989718   |
| <b>Variation (%)</b>                          | -0.100000  |



---

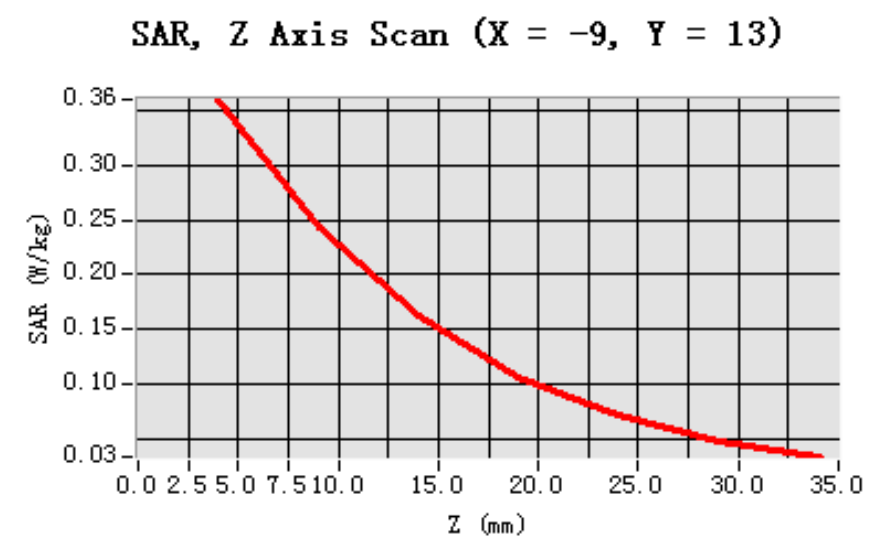
**Maximum location: X=0.00, Y=-6.00**

|                      |          |
|----------------------|----------|
| <b>SAR 1g (W/Kg)</b> | 0.363217 |
|----------------------|----------|



---

## Z Axis Scan



---

# Face up without earphone

## MEASUREMENT 1

Type: Phone measurement (Complete)

Date of measurement: 13/5/2010

Measurement duration: 14 minutes 29 seconds

Mobile Phone IMEI number:

### **A. Experimental conditions.**

|                        |                                   |
|------------------------|-----------------------------------|
| <b>Phantom File</b>    | surf_sam_plan.txt, Adaptive 2 max |
| <b>Phantom</b>         | Validation plane                  |
| <b>Device Position</b> | Body                              |
| <b>Band</b>            | GPRS850                           |
| <b>Channels</b>        | Low                               |
| <b>Signal</b>          | GPRS                              |

---

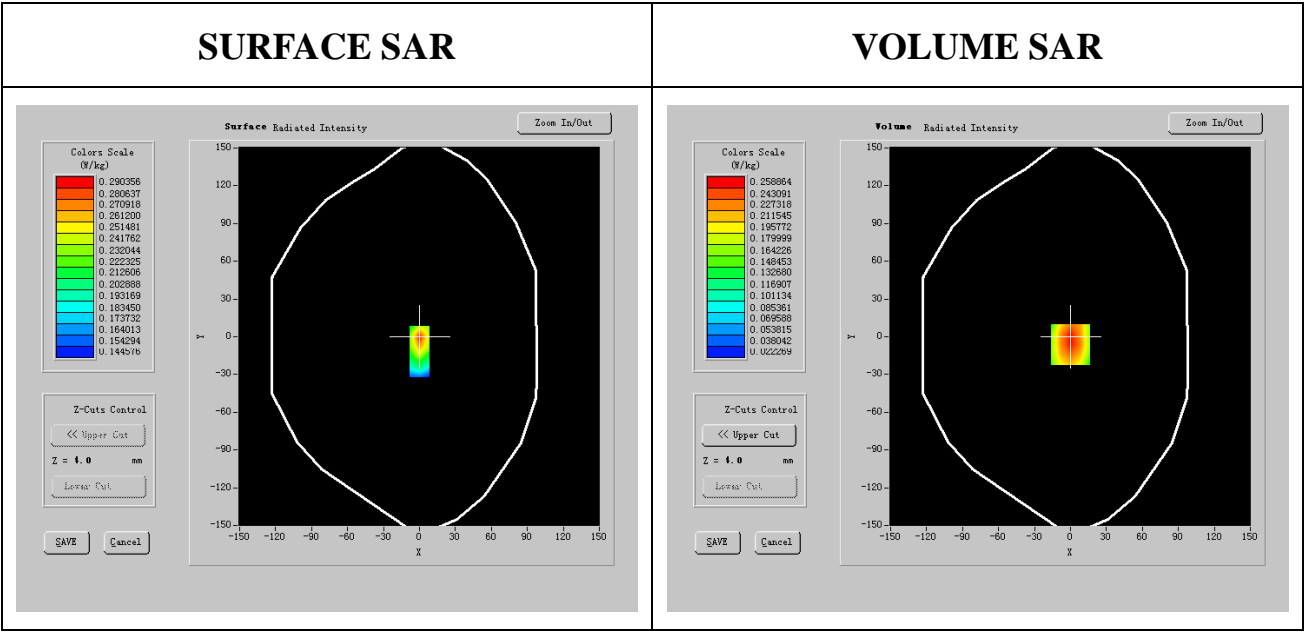
## **B. Instrumentations.**

|                         |  |
|-------------------------|--|
| <b>PC</b>               | HP (Pentium(R) V 3.06GHz, SN:375052-AA1) |
| <b>Network Emulator</b> | R&S (CMU200, SN:B23-03291)               |
| <b>Voltmeter</b>        | Keithley (2000, SN:1015843)              |
| <b>Synthesizer</b>      | Agilent (E8257C, SN:MY43321570)          |
| <b>Amplifier</b>        | Mini-Circuits (ZHL-42, SN:110405)        |
| <b>Power Meter</b>      | Agilent (E4416A, SN:QB41292714)          |
| <b>Probe</b>            | Antennessa (SN:SN11/09 EP100)            |
| <b>Phantom</b>          | Antennessa (SN:SN41_05_SAM29)            |
| <b>Liquid</b>           | Antennessa                               |

---

### **C. SAR Measurement Results**

|   |            |
|---|------------|
| <b>Frequency (MHz)</b>                        | 824.200012 |
| <b>Relative permittivity (real part)</b>      | 56.584000  |
| <b>Relative permittivity (imaginary part)</b> | 21.654150  |
| <b>Conductivity (S/m)</b>                     | 0.971519   |
| <b>Variation (%)</b>                          | -1.120000  |

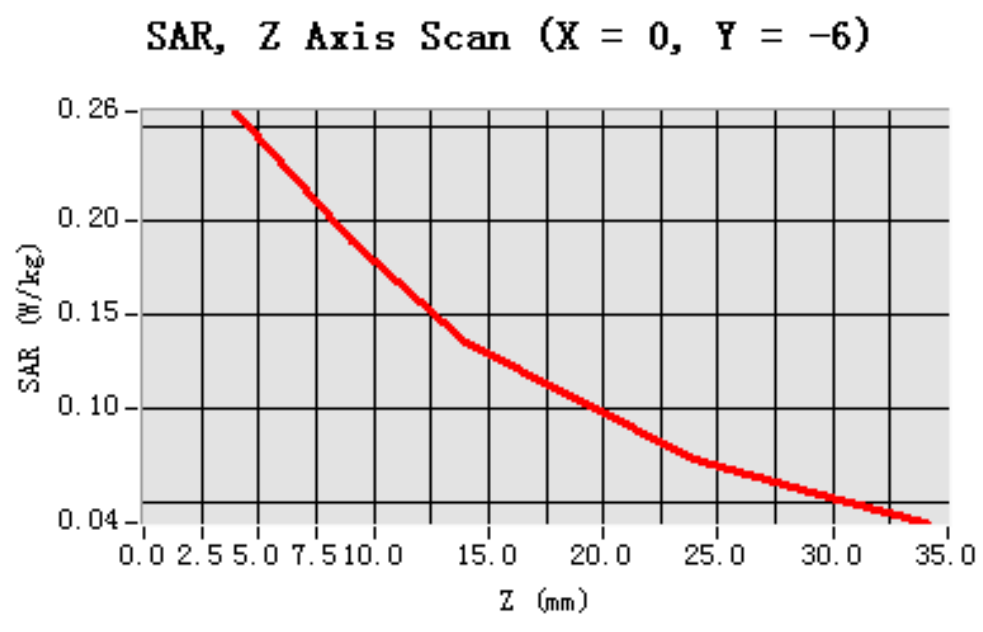


Maximum location: X=0.00, Y=-6.00

|               |          |
|---------------|----------|
| SAR 1g (W/Kg) | 0.289212 |
|---------------|----------|

---

### Z Axis Scan



---

## MEASUREMENT 2

Type: Phone measurement (Complete)

Date of measurement: 13/5/2010

Measurement duration: 14 minutes 29 seconds

Mobile Phone IMEI number:

### **A. Experimental conditions.**

|                        |                                   |
|------------------------|-----------------------------------|
| <b>Phantom File</b>    | surf_sam_plan.txt, Adaptive 2 max |
| <b>Phantom</b>         | Validation plane                  |
| <b>Device Position</b> | Body                              |
| <b>Band</b>            | GPRS850                           |
| <b>Channels</b>        | Middle                            |
| <b>Signal</b>          | GPRS                              |

---

## **B. Instrumentations.**

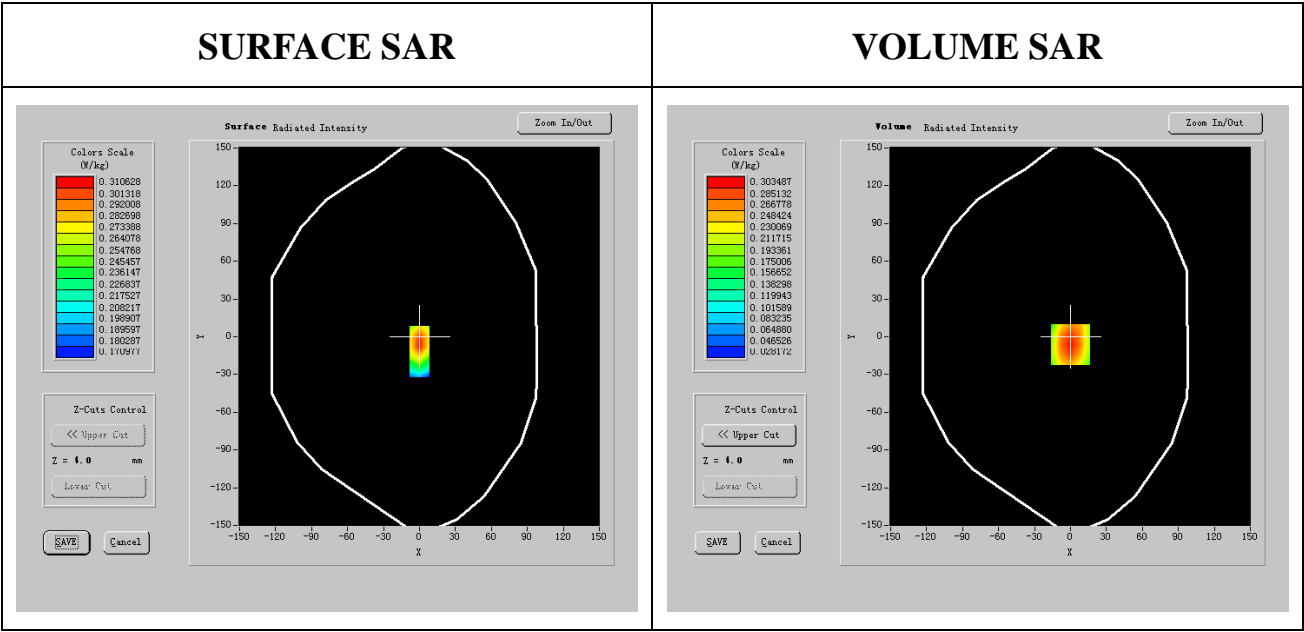
|                         |  |
|-------------------------|--|
| <b>PC</b>               | HP (Pentium(R) V 3.06GHz, SN:375052-AA1) |
| <b>Network Emulator</b> | R&S (CMU200, SN:B23-03291)               |
| <b>Voltmeter</b>        | Keithley (2000, SN:1015843)              |
| <b>Synthesizer</b>      | Agilent (E8257C, SN:MY43321570)          |
| <b>Amplifier</b>        | Mini-Circuits (ZHL-42, SN:110405)        |
| <b>Power Meter</b>      | Agilent (E4416A, SN:QB41292714)          |
| <b>Probe</b>            | Antennessa (SN:SN11/09 EP100)            |
| <b>Phantom</b>          | Antennessa (SN:SN41_05_SAM29)            |
| <b>Liquid</b>           | Antennessa                               |



---

### **C. SAR Measurement Results**

|   |            |
|---|------------|
| <b>Frequency (MHz)</b>                        | 836.400024 |
| <b>Relative permittivity (real part)</b>      | 55.501999  |
| <b>Relative permittivity (imaginary part)</b> | 21.866249  |
| <b>Conductivity (S/m)</b>                     | 1.006342   |
| <b>Variation (%)</b>                          | -0.200000  |

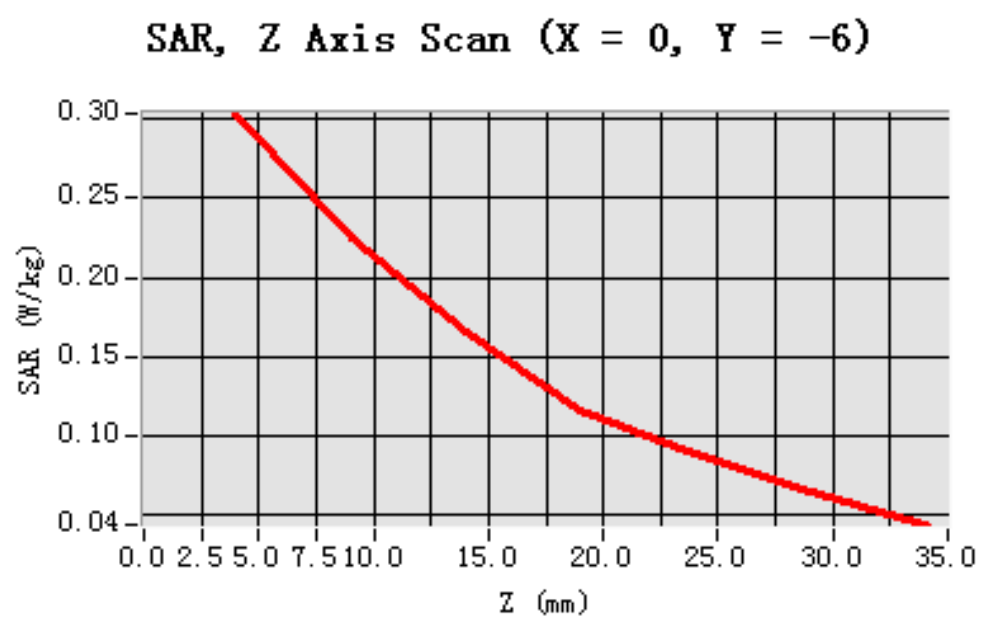


Maximum location: X=0.00, Y=-6.00

|               |          |
|---------------|----------|
| SAR 1g (W/Kg) | 0.356123 |
|---------------|----------|

---

## Z Axis Scan



---

## MEASUREMENT 3

Type: Phone measurement (Complete)

Date of measurement: 13/5/2010

Measurement duration: 14 minutes 29 seconds

Mobile Phone IMEI number:

### **A. Experimental conditions.**

|                        |                                   |
|------------------------|-----------------------------------|
| <b>Phantom File</b>    | surf_sam_plan.txt, Adaptive 2 max |
| <b>Phantom</b>         | Validation plane                  |
| <b>Device Position</b> | Body                              |
| <b>Band</b>            | GPRS850                           |
| <b>Channels</b>        | High                              |
| <b>Signal</b>          | GPRS                              |

### **B. Instrumentations.**

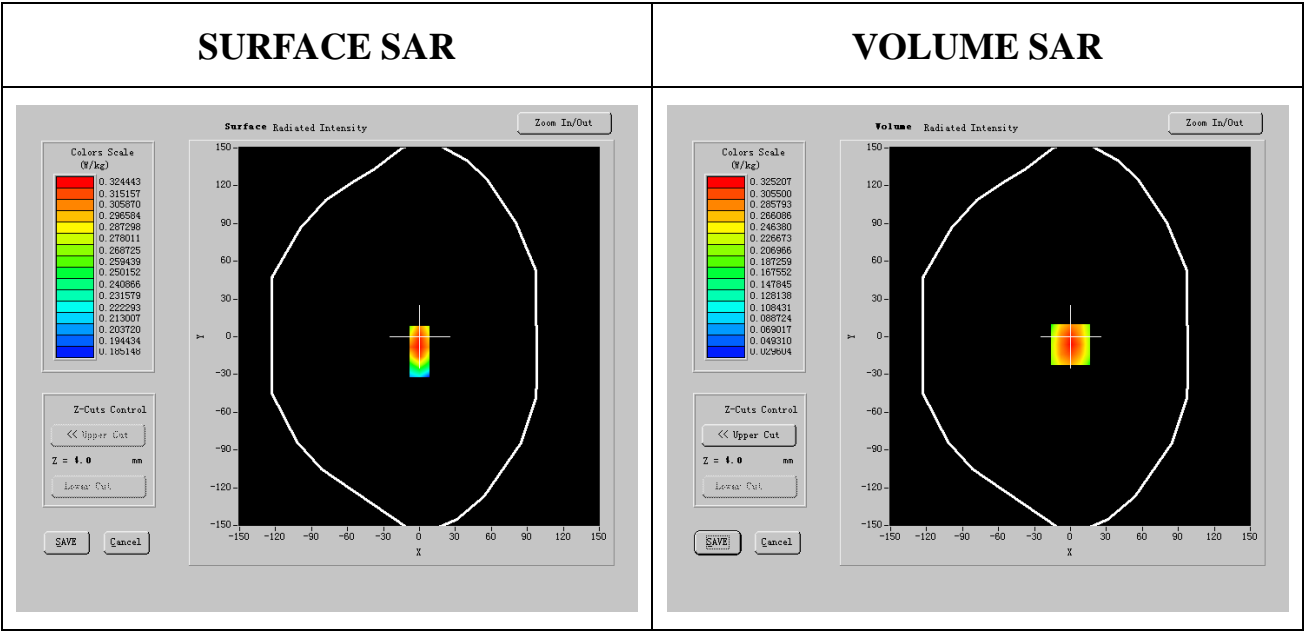
---

|                         |  |
|-------------------------|--|
| <b>PC</b>               | HP (Pentium(R) V 3.06GHz, SN:375052-AA1) |
| <b>Network Emulator</b> | R&S (CMU200, SN:B23-03291)               |
| <b>Voltmeter</b>        | Keithley (2000, SN:1015843)              |
| <b>Synthetizer</b>      | Agilent (E8257C, SN:MY43321570)          |
| <b>Amplifier</b>        | Mini-Circuits (ZHL-42, SN:110405)        |
| <b>Power Meter</b>      | Agilent (E4416A, SN:QB41292714)          |
| <b>Probe</b>            | Antennessa (SN:SN11/09 EP100)            |
| <b>Phantom</b>          | Antennessa (SN:SN41_05_SAM29)            |
| <b>Liquid</b>           | Antennessa                               |

---

### **C. SAR Measurement Results**

|   |            |
|---|------------|
| <b>Frequency (MHz)</b>                        | 848.599976 |
| <b>Relative permittivity (real part)</b>      | 55.576000  |
| <b>Relative permittivity (imaginary part)</b> | 21.726601  |
| <b>Conductivity (S/m)</b>                     | 0.974288   |
| <b>Variation (%)</b>                          | -0.220000  |

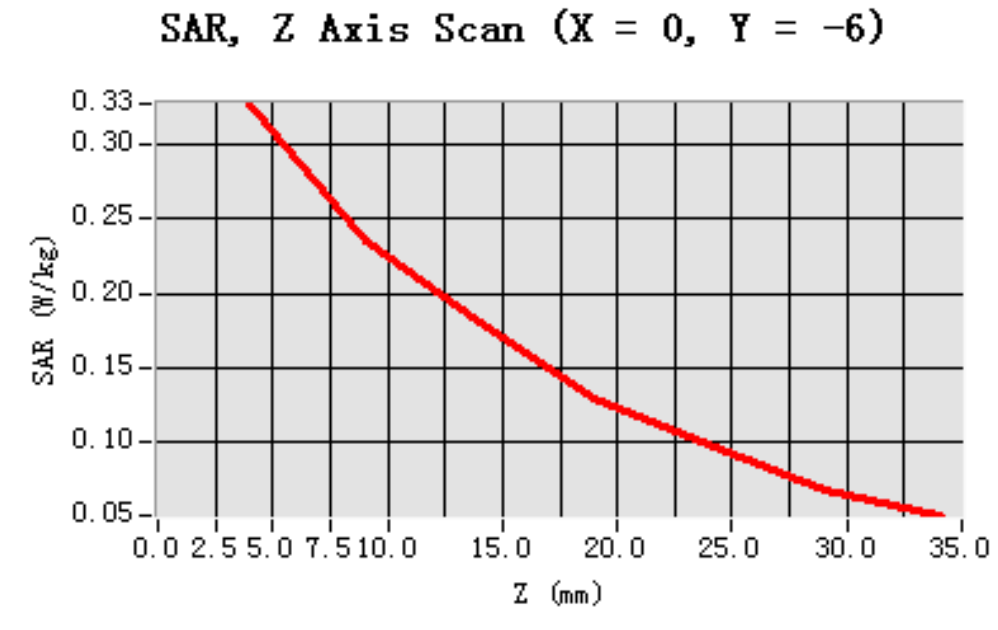


Maximum location: X=0.00, Y=-6.00

|               |          |
|---------------|----------|
| SAR 1g (W/Kg) | 0.358118 |
|---------------|----------|

---

### Z Axis Scan





---

# Face down without earphone

## MEASUREMENT 1

Type: Phone measurement (Complete)

Date of measurement: 13/5/2010

Measurement duration: 14 minutes 29 seconds

Mobile Phone IMEI number:

### **A. Experimental conditions.**

|                        |                                   |
|------------------------|-----------------------------------|
| <b>Phantom File</b>    | surf_sam_plan.txt, Adaptive 2 max |
| <b>Phantom</b>         | Validation plane                  |
| <b>Device Position</b> | Body                              |
| <b>Band</b>            | GPRS850                           |
| <b>Channels</b>        | Low                               |
| <b>Signal</b>          | GPRS                              |

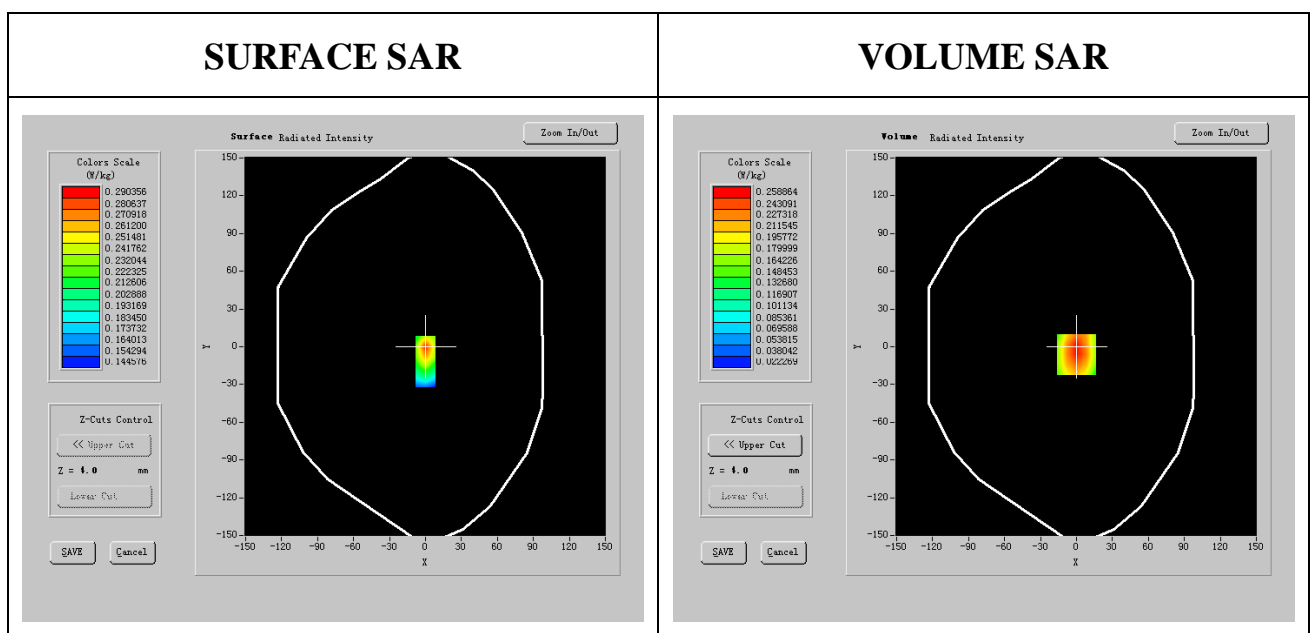
---

## **B. Instrumentations.**

|                         |  |
|-------------------------|--|
| <b>PC</b>               | HP (Pentium(R) V 3.06GHz, SN:375052-AA1) |
| <b>Network Emulator</b> | R&S (CMU200, SN:B23-03291)               |
| <b>Voltmeter</b>        | Keithley (2000, SN:1015843)              |
| <b>Synthesizer</b>      | Agilent (E8257C, SN:MY43321570)          |
| <b>Amplifier</b>        | Mini-Circuits (ZHL-42, SN:110405)        |
| <b>Power Meter</b>      | Agilent (E4416A, SN:QB41292714)          |
| <b>Probe</b>            | Antennessa (SN:SN_1109_EP_100)           |
| <b>Phantom</b>          | Antennessa (SN:SN41_05_SAM29)            |
| <b>Liquid</b>           | Antennessa                               |

## C. SAR Measurement Results

|   |            |
|---|------------|
| <b>Frequency (MHz)</b>                        | 824.200012 |
| <b>Relative permittivity (real part)</b>      | 55.878200  |
| <b>Relative permittivity (imaginary part)</b> | 21.148470  |
| <b>Conductivity (S/m)</b>                     | 0.995129   |
| <b>Variation (%)</b>                          | 0.120000   |



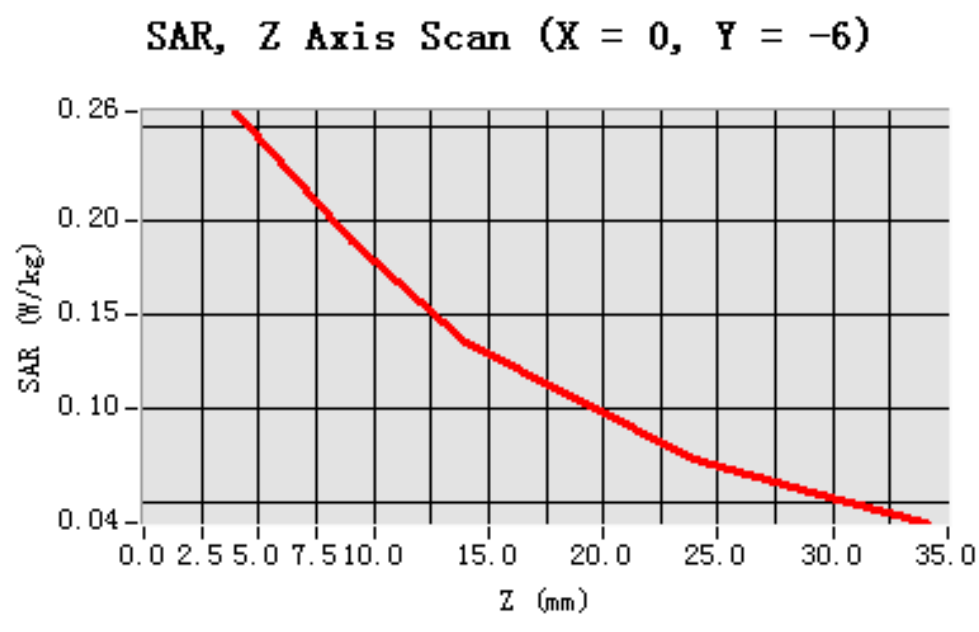
---

**Maximum location: X=0.00, Y=-6.00**

|                      |          |
|----------------------|----------|
| <b>SAR 1g (W/Kg)</b> | 0.290212 |
|----------------------|----------|

---

### Z Axis Scan



---

## MEASUREMENT 2

Type: Phone measurement (Complete)

Date of measurement: 13/5/2010

Measurement duration: 14 minutes 29 seconds

Mobile Phone IMEI number:

### **A. Experimental conditions.**

|                        |                                   |
|------------------------|-----------------------------------|
| <b>Phantom File</b>    | surf_sam_plan.txt, Adaptive 2 max |
| <b>Phantom</b>         | Validation plane                  |
| <b>Device Position</b> | Body                              |
| <b>Band</b>            | GPRS850                           |
| <b>Channels</b>        | Middle                            |
| <b>Signal</b>          | GPRS                              |

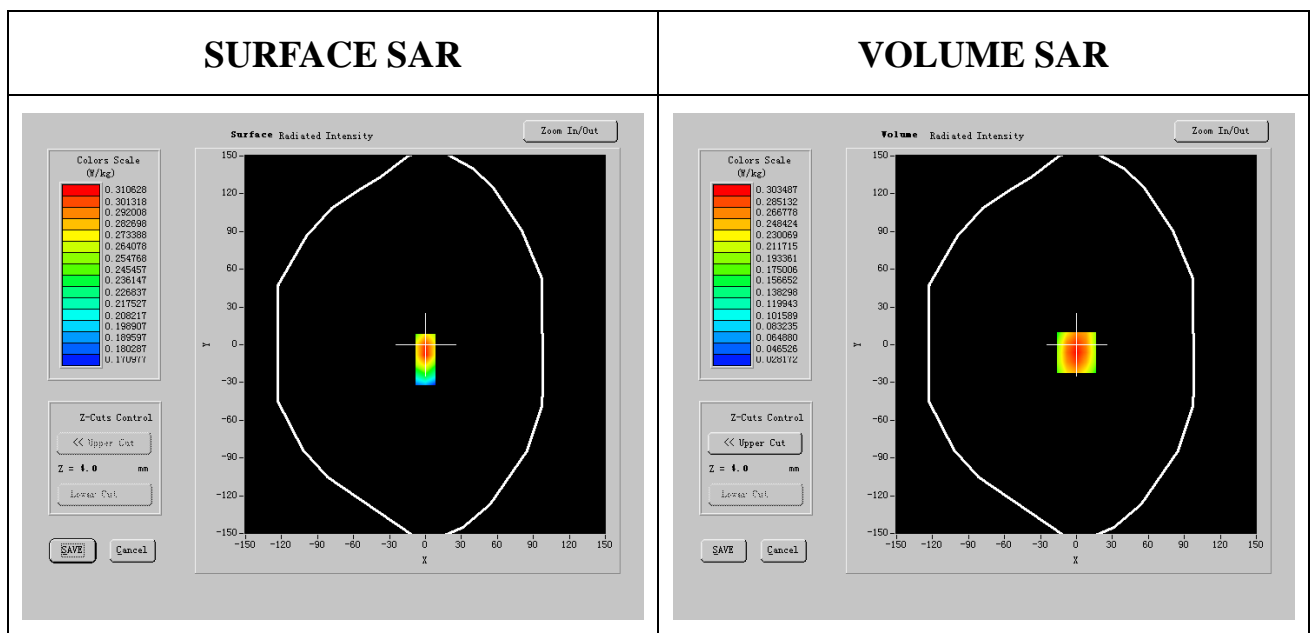
---

## **B. Instrumentations.**

|                         |  |
|-------------------------|--|
| <b>PC</b>               | HP (Pentium(R) V 3.06GHz, SN:375052-AA1) |
| <b>Network Emulator</b> | R&S (CMU200, SN:B23-03291)               |
| <b>Voltmeter</b>        | Keithley (2000, SN:1015843)              |
| <b>Synthetizer</b>      | Agilent (E8257C, SN:MY43321570)          |
| <b>Amplifier</b>        | Mini-Circuits (ZHL-42, SN:110405)        |
| <b>Power Meter</b>      | Agilent (E4416A, SN:QB41292714)          |
| <b>Probe</b>            | Antennessa (SN:SN_1109_EP_100)           |
| <b>Phantom</b>          | Antennessa (SN:SN41_05_SAM29)            |
| <b>Liquid</b>           | Antennessa                               |

## C. SAR Measurement Results

|   |            |
|---|------------|
| <b>Frequency (MHz)</b>                        | 836.400024 |
| <b>Relative permittivity (real part)</b>      | 55.954400  |
| <b>Relative permittivity (imaginary part)</b> | 21.154379  |
| <b>Conductivity (S/m)</b>                     | 0.997352   |
| <b>Variation (%)</b>                          | -0.200000  |





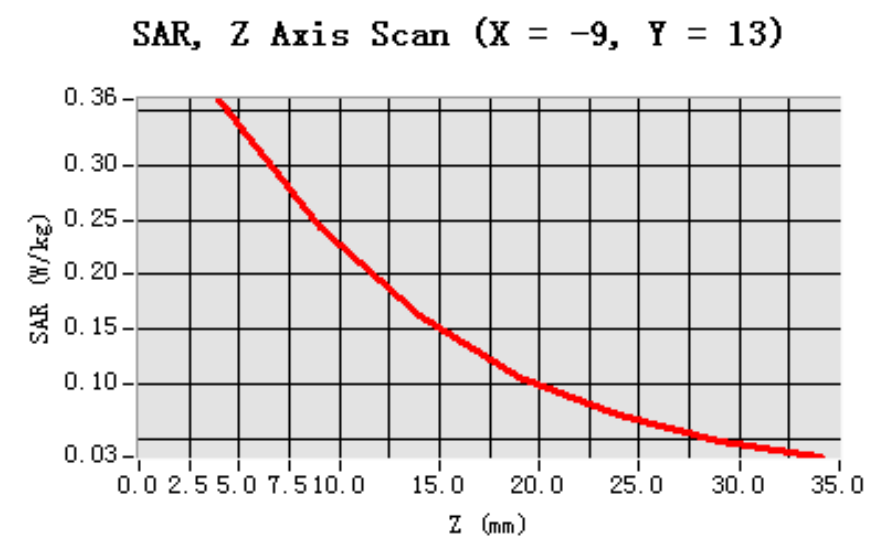
---

**Maximum location: X=0.00, Y=-6.00**

|                      |          |
|----------------------|----------|
| <b>SAR 1g (W/Kg)</b> | 0.356514 |
|----------------------|----------|

---

## Z Axis Scan



---

## MEASUREMENT 3

Type: Phone measurement (Complete)

Date of measurement: 13/5/2010

Measurement duration: 14 minutes 29 seconds

Mobile Phone IMEI number:

### **A. Experimental conditions.**

|                        |                                   |
|------------------------|-----------------------------------|
| <b>Phantom File</b>    | surf_sam_plan.txt, Adaptive 2 max |
| <b>Phantom</b>         | Validation plane                  |
| <b>Device Position</b> | Body                              |
| <b>Band</b>            | GPRS850                           |
| <b>Channels</b>        | High                              |
| <b>Signal</b>          | GPRS                              |

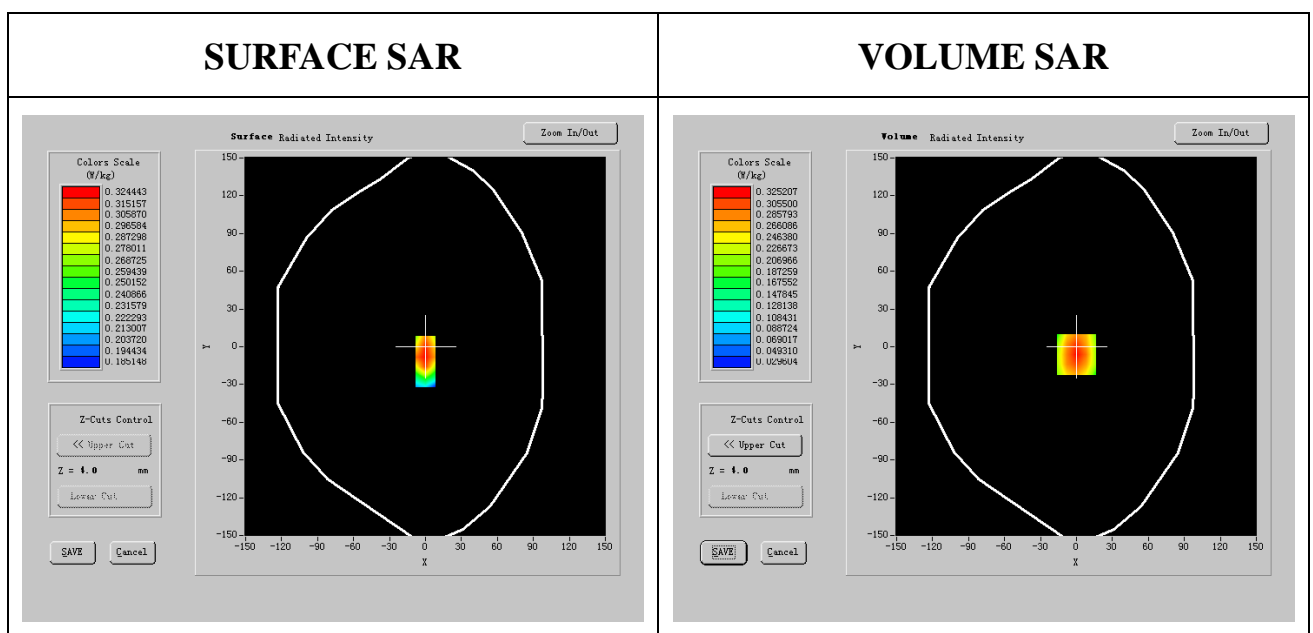
### **B. Instrumentations.**

---

|                         |  |
|-------------------------|--|
| <b>PC</b>               | HP (Pentium(R) V 3.06GHz, SN:375052-AA1) |
| <b>Network Emulator</b> | R&S (CMU200, SN:B23-03291)               |
| <b>Voltmeter</b>        | Keithley (2000, SN:1015843)              |
| <b>Synthetizer</b>      | Agilent (E8257C, SN:MY43321570)          |
| <b>Amplifier</b>        | Mini-Circuits (ZHL-42, SN:110405)        |
| <b>Power Meter</b>      | Agilent (E4416A, SN:QB41292714)          |
| <b>Probe</b>            | Antennessa (SN:SN_1109_EP_100)           |
| <b>Phantom</b>          | Antennessa (SN:SN41_05_SAM29)            |
| <b>Liquid</b>           | Antennessa                               |

## C. SAR Measurement Results

|   |            |
|---|------------|
| <b>Frequency (MHz)</b>                        | 848.599976 |
| <b>Relative permittivity (real part)</b>      | 55.896320  |
| <b>Relative permittivity (imaginary part)</b> | 21.201301  |
| <b>Conductivity (S/m)</b>                     | 0.994118   |
| <b>Variation (%)</b>                          | -0.200000  |



---

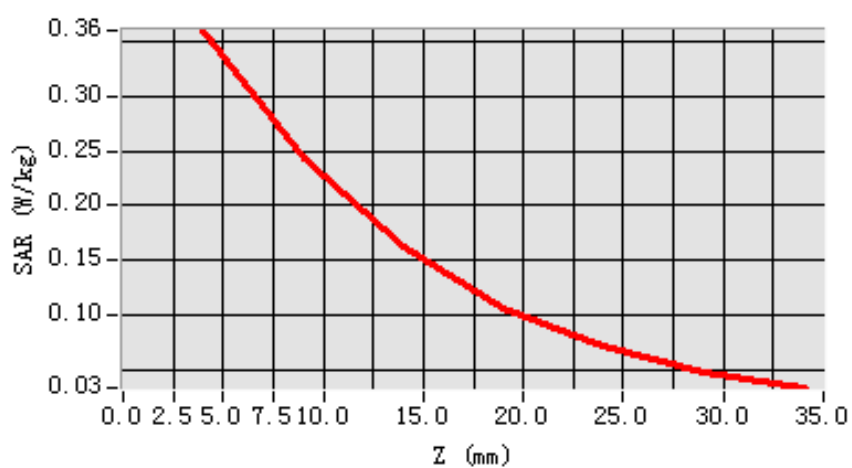
**Maximum location: X=0.00, Y=-6.00**

|                      |          |
|----------------------|----------|
| <b>SAR 1g (W/Kg)</b> | 0.360212 |
|----------------------|----------|

---

## Z Axis Scan

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



---

## GPRS 1900

### I. RESULTS

| <u>TYPE</u>       | <u>BAND</u> | <u>PARAMETERS</u>  |
|-------------------|-------------|--|
| <u>Noise</u>      | --          | --   |
| <u>Validation</u> | --          | --   |
| <u>Phone</u>      | GPRS1900    | <u>Measurement 1:</u> Validation Plane with Body device position on Low Channel in GPRS mode<br><u>Measurement 2:</u> Validation Plane with Body device position on Middle Channel in GPRS mode<br><u>Measurement 3:</u> Validation Plane with Body device position on High Channel in GPRS mode |



---

## Face up with earphone

### **MEASUREMENT 1**

Type: Phone measurement (Complete)

Date of measurement: 13/5/2010

Measurement duration: 6 minutes 46 seconds

Mobile Phone IMEI number: --

#### **A. Experimental conditions.**

|                        |                              |
|------------------------|------------------------------|
| <b>Phantom File</b>    | zinf15.txt, Adaptative 2 max |
| <b>Phantom</b>         | Validation plane             |
| <b>Device Position</b> | Body                         |
| <b>Band</b>            | GPRS1900                     |
| <b>Channels</b>        | Low                          |
| <b>Signal</b>          | GPRS                         |

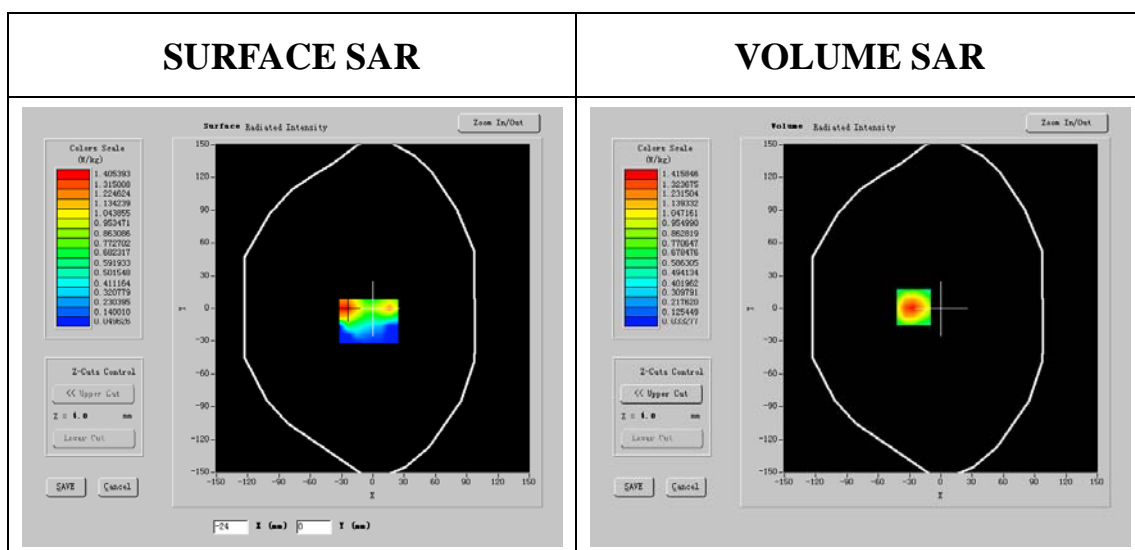
---

## **B. Instrumentations.**

|                         |   |
|-------------------------|---|
| <b>PC</b>               | HP (Pentium(R) V3.06GHz, SN:375052-AA1) |
| <b>Network Emulator</b> | R&S (CMU200, SN:B23-03291)              |
| <b>Voltmeter</b>        | Keithley (2000, SN:1015843)             |
| <b>Synthesizer</b>      | Agilent (E8257C, SN:MY43321570)         |
| <b>Amplifier</b>        | Mini-Circuits (ZHL-42, SN:110405)       |
| <b>Power Meter</b>      | Agilent (E4416A, SN:QB41292714)         |
| <b>Probe</b>            | Antennessa (SN:SN_11/09_EP_100)         |
| <b>Phantom</b>          | Antennessa (SN:SN41_05_SAM29)           |
| <b>Liquid</b>           | Antennessa                              |

## C. SAR Measurement Results

|   |             |
|---|-------------|
| <b>Frequency (MHz)</b>                        | 1850.199021 |
| <b>Relative permittivity (real part)</b>      | 52.312000   |
| <b>Relative permittivity (imaginary part)</b> | 14.412322   |
| <b>Conductivity (S/m)</b>                     | 1.511021    |
| <b>Variation (%)</b>                          | -0.500000   |



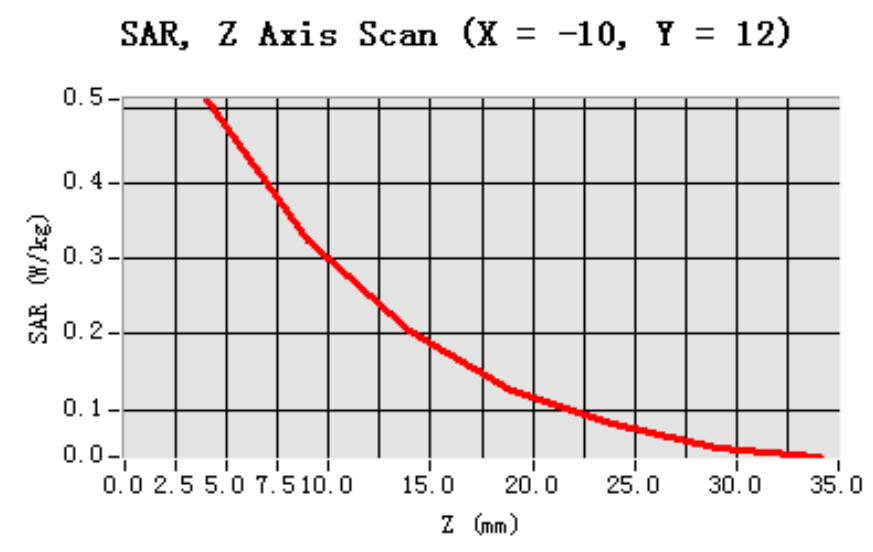
---

**Maximum location: X=-31.00, Y=-16.00**

|                      |          |
|----------------------|----------|
| <b>SAR 1g (W/Kg)</b> | 0.486131 |
|----------------------|----------|

---

## Z Axis Scan



---

## MEASUREMENT 2

Type: Phone measurement (Complete)

Date of measurement: 13/5/2010

Measurement duration: 6 minutes 51 seconds

Mobile Phone IMEI number: --

### **A. Experimental conditions.**

|                        |                              |
|------------------------|------------------------------|
| <b>Phantom File</b>    | zinf15.txt, Adaptative 2 max |
| <b>Phantom</b>         | Validation plane             |
| <b>Device Position</b> | Body                         |
| <b>Band</b>            | GPRS1900                     |
| <b>Channels</b>        | Middle                       |
| <b>Signal</b>          | GPRS                         |

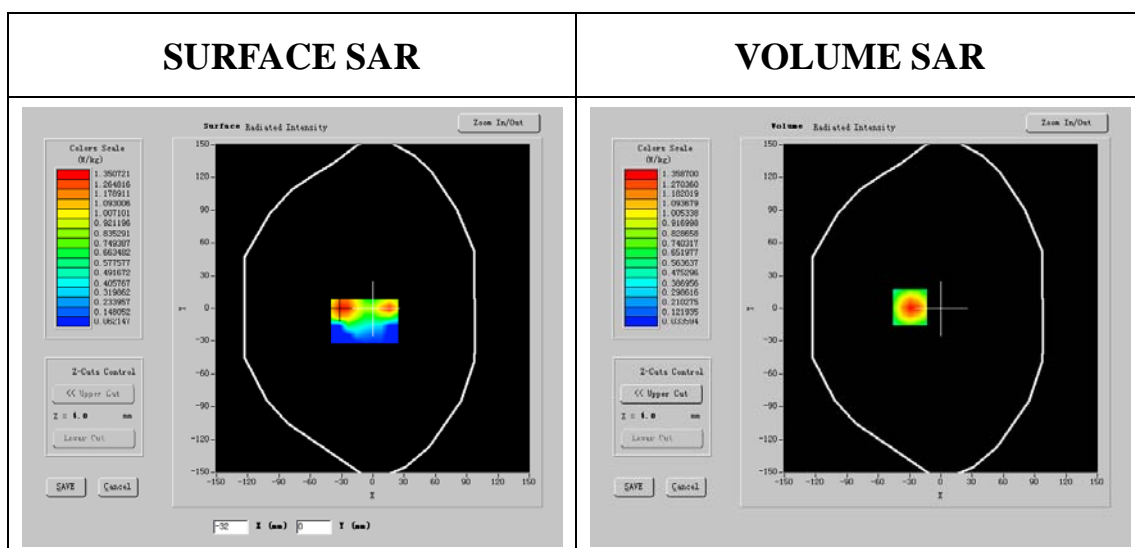
---

## **B. Instrumentations.**

|                         |   |
|-------------------------|---|
| <b>PC</b>               | HP (Pentium(R) V3.06GHz, SN:375052-AA1) |
| <b>Network Emulator</b> | R&S (CMU200, SN:B23-03291)              |
| <b>Voltmeter</b>        | Keithley (2000, SN:1015843)             |
| <b>Synthesizer</b>      | Agilent (E8257C, SN:MY43321570)         |
| <b>Amplifier</b>        | Mini-Circuits (ZHL-42, SN:110405)       |
| <b>Power Meter</b>      | Agilent (E4416A, SN:QB41292714)         |
| <b>Probe</b>            | Antennessa (SN:SN_11/09_EP_100)         |
| <b>Phantom</b>          | Antennessa (SN:SN41_05_SAM29)           |
| <b>Liquid</b>           | Antennessa                              |

## C. SAR Measurement Results

|   |             |
|---|-------------|
| <b>Frequency (MHz)</b>                        | 1880.000004 |
| <b>Relative permittivity (real part)</b>      | 52.402103   |
| <b>Relative permittivity (imaginary part)</b> | 14.235206   |
| <b>Conductivity (S/m)</b>                     | 1.501203    |
| <b>Variation (%)</b>                          | -1.000000   |





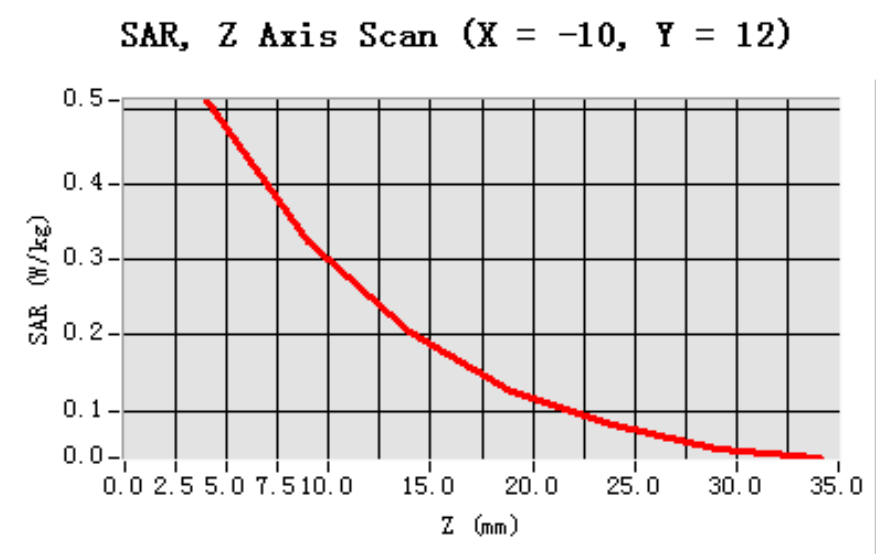
---

**Maximum location: X=-31.00, Y=-16.00**

|                      |          |
|----------------------|----------|
| <b>SAR 1g (W/Kg)</b> | 0.394056 |
|----------------------|----------|

---

## Z Axis Scan



---

## MEASUREMENT 3

Type: Phone measurement (Complete)

Date of measurement: 13/5/2010

Measurement duration: 6 minutes 21 seconds

Mobile Phone IMEI number: --

### **A. Experimental conditions.**

|                        |                              |
|------------------------|------------------------------|
| <b>Phantom File</b>    | zinf15.txt, Adaptative 2 max |
| <b>Phantom</b>         | Validation plane             |
| <b>Device Position</b> | Body                         |
| <b>Band</b>            | GPRS1900                     |
| <b>Channels</b>        | High                         |
| <b>Signal</b>          | GPRS                         |

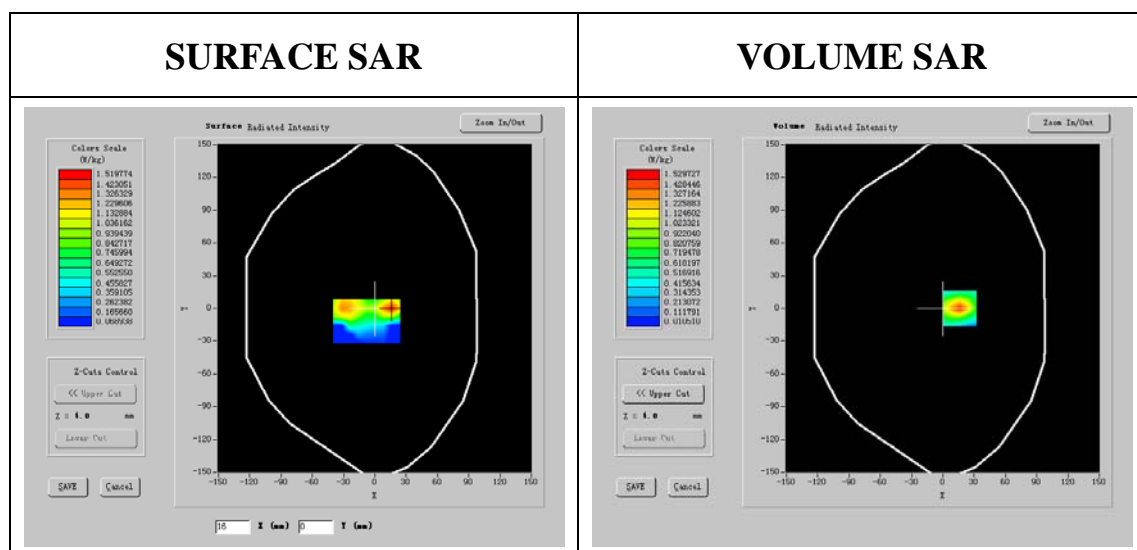
---

## **B. Instrumentations.**

|                         |   |
|-------------------------|---|
| <b>PC</b>               | HP (Pentium(R) V3.06GHz, SN:375052-AA1) |
| <b>Network Emulator</b> | R&S (CMU200, SN:B23-03291)              |
| <b>Voltmeter</b>        | Keithley (2000, SN:1015843)             |
| <b>Synthetizer</b>      | Agilent (E8257C, SN:MY43321570)         |
| <b>Amplifier</b>        | Mini-Circuits (ZHL-42, SN:110405)       |
| <b>Power Meter</b>      | Agilent (E4416A, SN:QB41292714)         |
| <b>Probe</b>            | Antennessa (SN:SN_11/09_EP_100)         |
| <b>Phantom</b>          | Antennessa (SN:SN41_05_SAM29)           |
| <b>Liquid</b>           | Antennessa                              |

## C. SAR Measurement Results

|   |             |
|---|-------------|
| <b>Frequency (MHz)</b>                        | 1910.029036 |
| <b>Relative permittivity (real part)</b>      | 52.810010   |
| <b>Relative permittivity (imaginary part)</b> | 14.301200   |
| <b>Conductivity (S/m)</b>                     | 1.502102    |
| <b>Variation (%)</b>                          | -0.130000   |



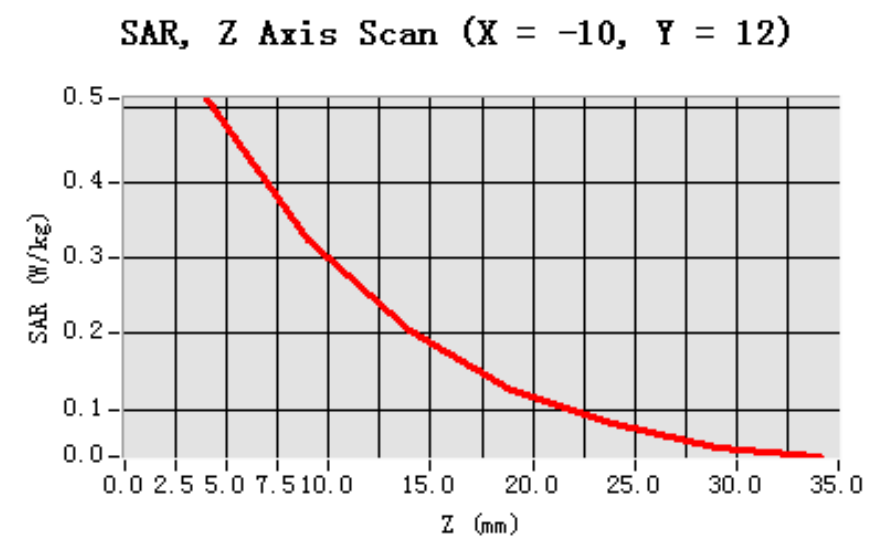
---

**Maximum location: X=2.00, Y=9.00**

|                      |          |
|----------------------|----------|
| <b>SAR 1g (W/Kg)</b> | 0.467154 |
|----------------------|----------|

---

### Z Axis Scan



---

# Face down with earphone

## MEASUREMENT 1

Type: Phone measurement (Complete)

Date of measurement: 13/5/2010

Measurement duration: 6 minutes 46 seconds

Mobile Phone IMEI number: --

### **A. Experimental conditions.**

|                        |                              |
|------------------------|------------------------------|
| <b>Phantom File</b>    | zinf15.txt, Adaptative 2 max |
| <b>Phantom</b>         | Validation plane             |
| <b>Device Position</b> | Body                         |
| <b>Band</b>            | GPRS1900                     |
| <b>Channels</b>        | Low                          |
| <b>Signal</b>          | GPRS                         |



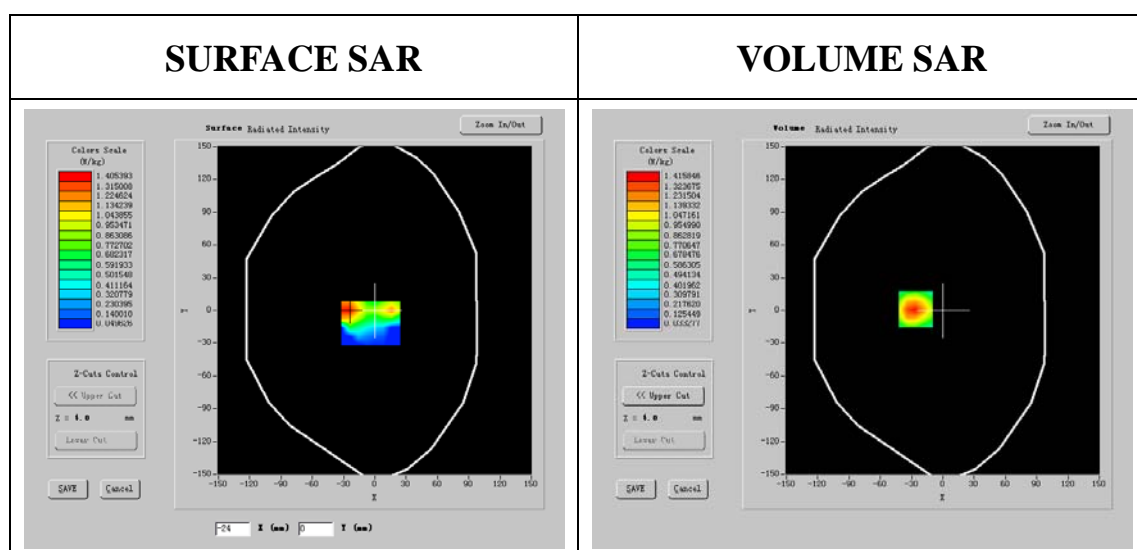
---

## **B. Instrumentations.**

|                         |   |
|-------------------------|---|
| <b>PC</b>               | HP (Pentium(R) V3.06GHz, SN:375052-AA1) |
| <b>Network Emulator</b> | R&S (CMU200, SN:B23-03291)              |
| <b>Voltmeter</b>        | Keithley (2000, SN:1015843)             |
| <b>Synthesizer</b>      | Agilent (E8257C, SN:MY43321570)         |
| <b>Amplifier</b>        | Mini-Circuits (ZHL-42, SN:110405)       |
| <b>Power Meter</b>      | Agilent (E4416A, SN:QB41292714)         |
| <b>Probe</b>            | Antennessa (SN:SN_11/09_EP_100)         |
| <b>Phantom</b>          | Antennessa (SN:SN41_05_SAM29)           |
| <b>Liquid</b>           | Antennessa                              |

## C. SAR Measurement Results

|   |             |
|---|-------------|
| <b>Frequency (MHz)</b>                        | 1710.199951 |
| <b>Relative permittivity (real part)</b>      | 53.351470   |
| <b>Relative permittivity (imaginary part)</b> | 14.025293   |
| <b>Conductivity (S/m)</b>                     | 1.575938    |
| <b>Variation (%)</b>                          | -0.200000   |



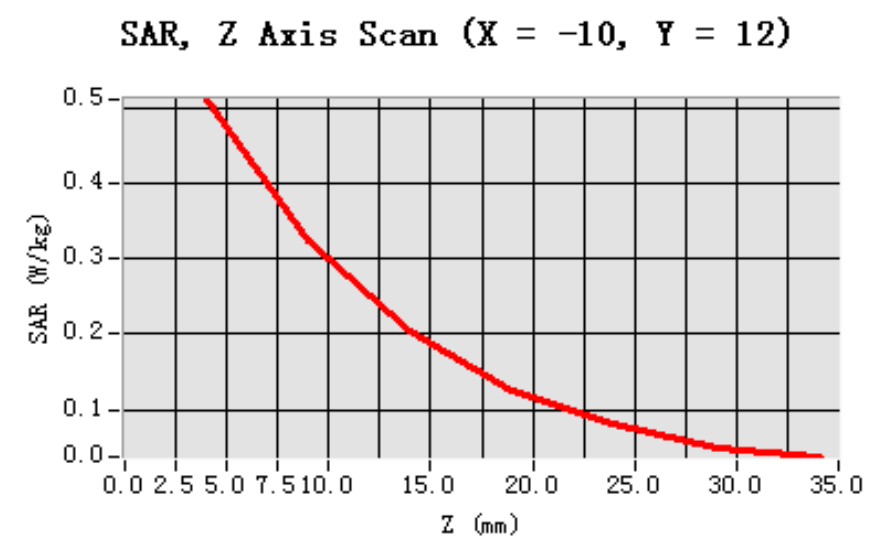
---

**Maximum location: X=-31.00, Y=-16.00**

|                      |          |
|----------------------|----------|
| <b>SAR 1g (W/Kg)</b> | 0.439211 |
|----------------------|----------|

---

## Z Axis Scan



---

## MEASUREMENT 2

Type: Phone measurement (Complete)

Date of measurement: 13/5/2010

Measurement duration: 6 minutes 51 seconds

Mobile Phone IMEI number: --

### **A. Experimental conditions.**

|                        |                              |
|------------------------|------------------------------|
| <b>Phantom File</b>    | zinf15.txt, Adaptative 2 max |
| <b>Phantom</b>         | Validation plane             |
| <b>Device Position</b> | Body                         |
| <b>Band</b>            | GPRS1900                     |
| <b>Channels</b>        | Middle                       |
| <b>Signal</b>          | GPRS                         |

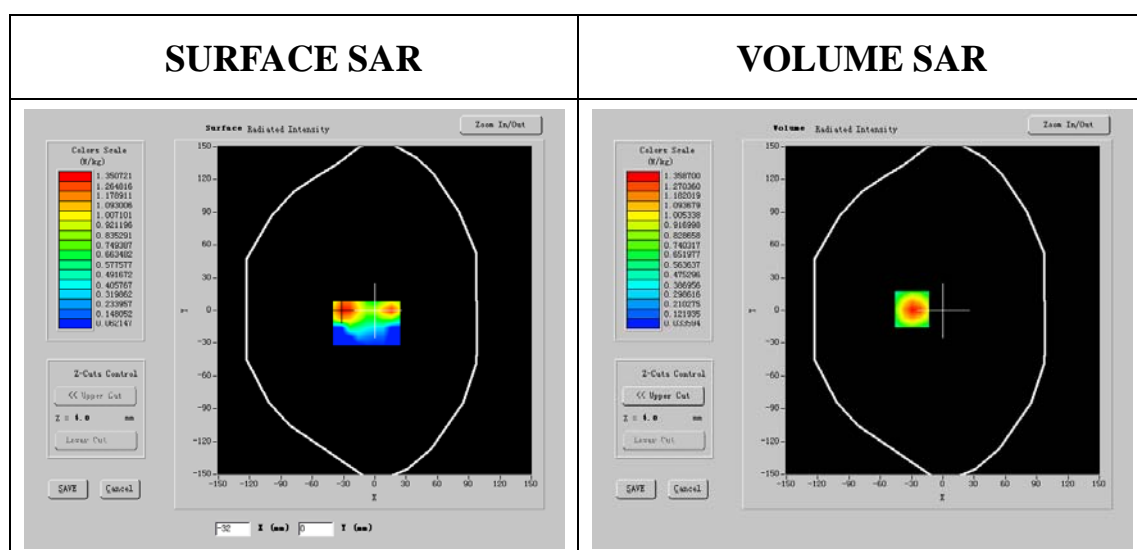
---

## **B. Instrumentations.**

|                         |   |
|-------------------------|---|
| <b>PC</b>               | HP (Pentium(R) V3.06GHz, SN:375052-AA1) |
| <b>Network Emulator</b> | R&S (CMU200, SN:B23-03291)              |
| <b>Voltmeter</b>        | Keithley (2000, SN:1015843)             |
| <b>Synthesizer</b>      | Agilent (E8257C, SN:MY43321570)         |
| <b>Amplifier</b>        | Mini-Circuits (ZHL-42, SN:110405)       |
| <b>Power Meter</b>      | Agilent (E4416A, SN:QB41292714)         |
| <b>Probe</b>            | Antennessa (SN:SN_11/09_EP_100)         |
| <b>Phantom</b>          | Antennessa (SN:SN41_05_SAM29)           |
| <b>Liquid</b>           | Antennessa                              |

## C. SAR Measurement Results

|   |             |
|---|-------------|
| <b>Frequency (MHz)</b>                        | 1747.400004 |
| <b>Relative permittivity (real part)</b>      | 52.954008   |
| <b>Relative permittivity (imaginary part)</b> | 14.032160   |
| <b>Conductivity (S/m)</b>                     | 1.587486    |
| <b>Variation (%)</b>                          | -1.100000   |



---

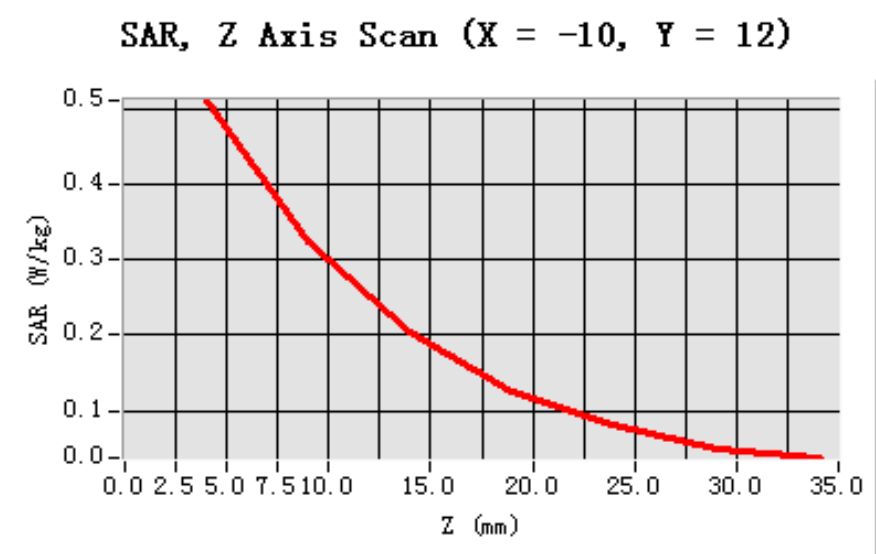
**Maximum location: X=-31.00, Y=-16.00**

|                      |          |
|----------------------|----------|
| <b>SAR 1g (W/Kg)</b> | 0.358241 |
|----------------------|----------|



---

## Z Axis Scan



---

## MEASUREMENT 3

Type: Phone measurement (Complete)

Date of measurement: 13/5/2010

Measurement duration: 6 minutes 21 seconds

Mobile Phone IMEI number: --

### **A. Experimental conditions.**

|                        |                              |
|------------------------|------------------------------|
| <b>Phantom File</b>    | zinf15.txt, Adaptative 2 max |
| <b>Phantom</b>         | Validation plane             |
| <b>Device Position</b> | Body                         |
| <b>Band</b>            | GPRS1900                     |
| <b>Channels</b>        | High                         |
| <b>Signal</b>          | GPRS                         |

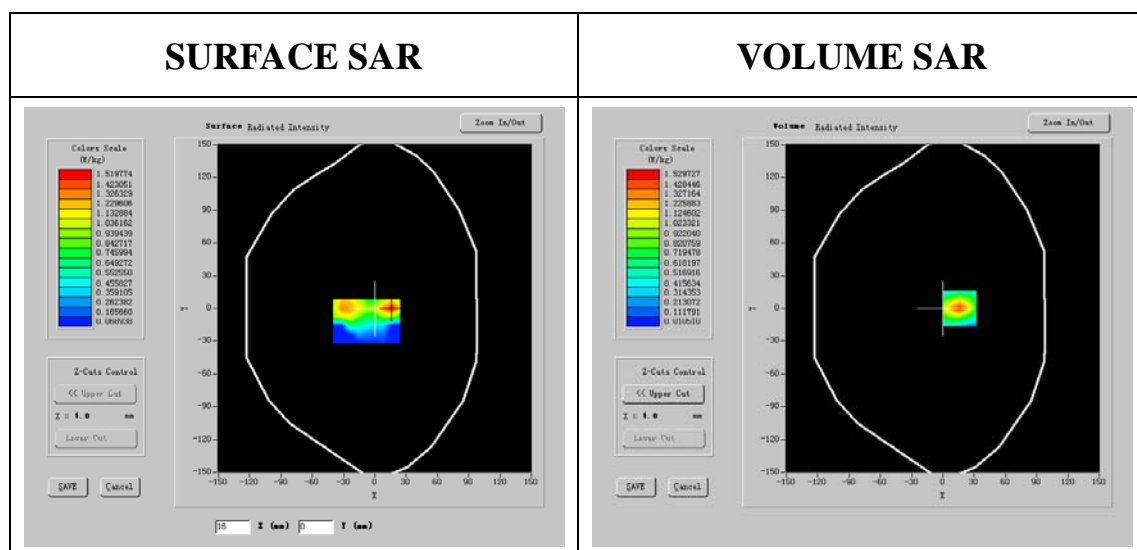
---

## **B. Instrumentations.**

|                         |   |
|-------------------------|---|
| <b>PC</b>               | HP (Pentium(R) V3.06GHz, SN:375052-AA1) |
| <b>Network Emulator</b> | R&S (CMU200, SN:B23-03291)              |
| <b>Voltmeter</b>        | Keithley (2000, SN:1015843)             |
| <b>Synthesizer</b>      | Agilent (E8257C, SN:MY43321570)         |
| <b>Amplifier</b>        | Mini-Circuits (ZHL-42, SN:110405)       |
| <b>Power Meter</b>      | Agilent (E4416A, SN:QB41292714)         |
| <b>Probe</b>            | Antennessa (SN:SN_11/09_EP_100)         |
| <b>Phantom</b>          | Antennessa (SN:SN41_05_SAM29)           |
| <b>Liquid</b>           | Antennessa                              |

## C. SAR Measurement Results

|   |             |
|---|-------------|
| <b>Frequency (MHz)</b>                        | 1784.599036 |
| <b>Relative permittivity (real part)</b>      | 52.987442   |
| <b>Relative permittivity (imaginary part)</b> | 13.874330   |
| <b>Conductivity (S/m)</b>                     | 1.589565    |
| <b>Variation (%)</b>                          | -0.130000   |



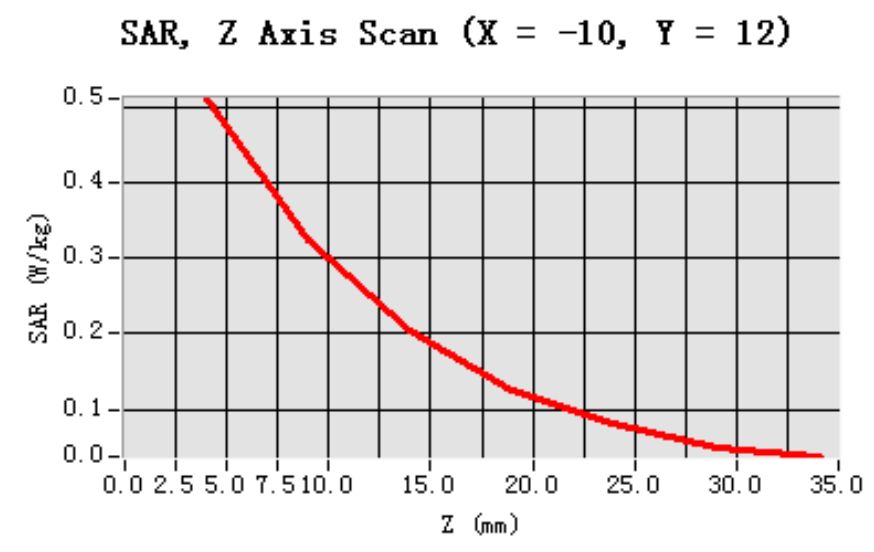
---

**Maximum location: X=2.00, Y=9.00**

|                      |          |
|----------------------|----------|
| <b>SAR 1g (W/Kg)</b> | 0.440233 |
|----------------------|----------|

---

## Z Axis Scan



---

# Face up without earphone

## MEASUREMENT 1

Type: Phone measurement (Complete)

Date of measurement: 13/5/2010

Measurement duration: 6 minutes 46 seconds

Mobile Phone IMEI number: --

### **A. Experimental conditions.**

|                        |                              |
|------------------------|------------------------------|
| <b>Phantom File</b>    | zinf15.txt, Adaptative 2 max |
| <b>Phantom</b>         | Validation plane             |
| <b>Device Position</b> | Body                         |
| <b>Band</b>            | GPRS1900                     |
| <b>Channels</b>        | Low                          |
| <b>Signal</b>          | GPRS                         |

---

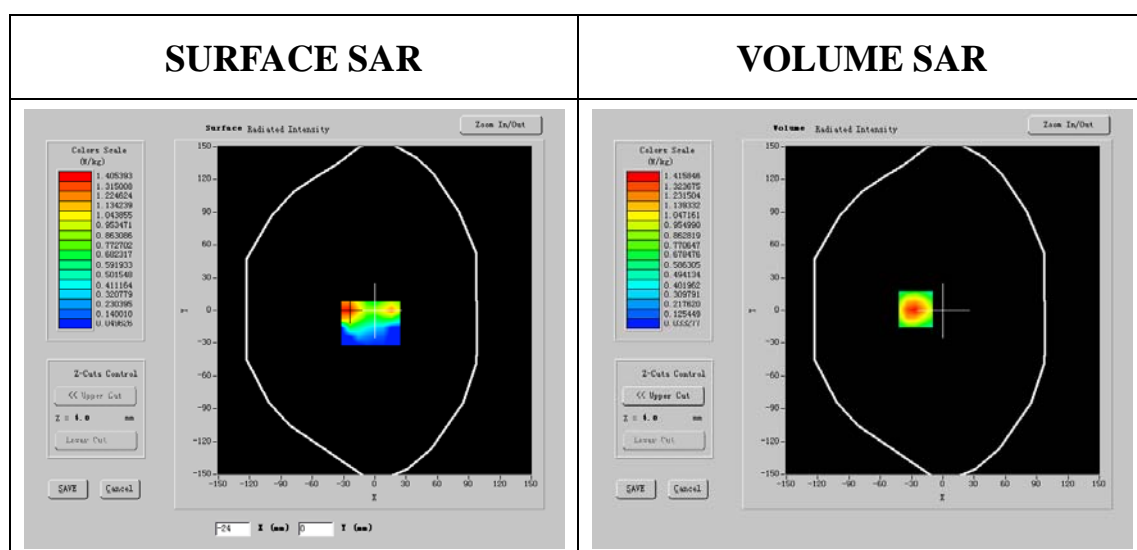
## **B. Instrumentations.**

|                         |   |
|-------------------------|---|
| <b>PC</b>               | HP (Pentium(R) V3.06GHz, SN:375052-AA1) |
| <b>Network Emulator</b> | R&S (CMU200, SN:B23-03291)              |
| <b>Voltmeter</b>        | Keithley (2000, SN:1015843)             |
| <b>Synthesizer</b>      | Agilent (E8257C, SN:MY43321570)         |
| <b>Amplifier</b>        | Mini-Circuits (ZHL-42, SN:110405)       |
| <b>Power Meter</b>      | Agilent (E4416A, SN:QB41292714)         |
| <b>Probe</b>            | Antennessa (SN:SN11/09 EP100)           |
| <b>Phantom</b>          | Antennessa (SN:SN41_05_SAM29)           |
| <b>Liquid</b>           | Antennessa                              |



## C. SAR Measurement Results

|   |             |
|---|-------------|
| <b>Frequency (MHz)</b>                        | 1710.199951 |
| <b>Relative permittivity (real part)</b>      | 52.347400   |
| <b>Relative permittivity (imaginary part)</b> | 14.450693   |
| <b>Conductivity (S/m)</b>                     | 1.533698    |
| <b>Variation (%)</b>                          | -1.000000   |



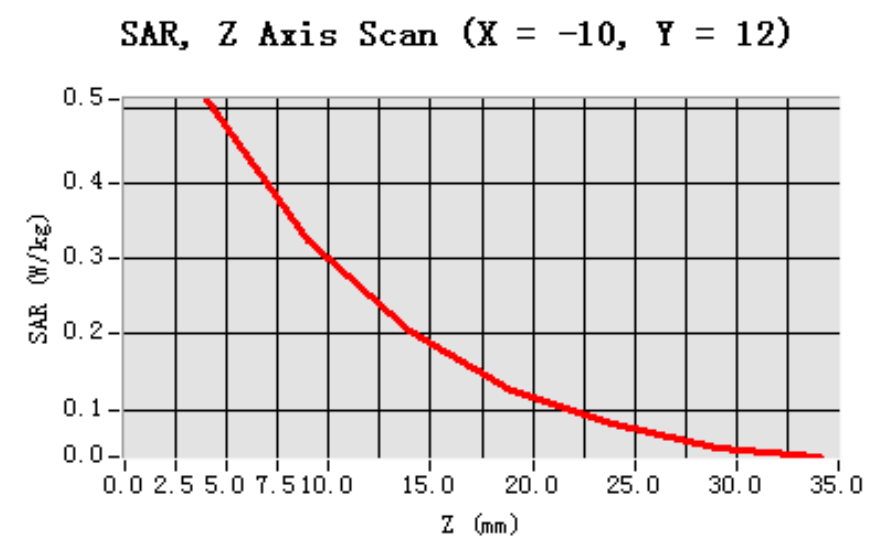
---

**Maximum location: X=-31.00, Y=-16.00**

|                      |          |
|----------------------|----------|
| <b>SAR 1g (W/Kg)</b> | 0.436212 |
|----------------------|----------|

---

## Z Axis Scan



---

## MEASUREMENT 2

Type: Phone measurement (Complete)

Date of measurement: 13/5/2010

Measurement duration: 6 minutes 51 seconds

Mobile Phone IMEI number: --

### **A. Experimental conditions.**

|                        |                              |
|------------------------|------------------------------|
| <b>Phantom File</b>    | zinf15.txt, Adaptative 2 max |
| <b>Phantom</b>         | Validation plane             |
| <b>Device Position</b> | Body                         |
| <b>Band</b>            | GPRS1900                     |
| <b>Channels</b>        | Middle                       |
| <b>Signal</b>          | GPRS                         |

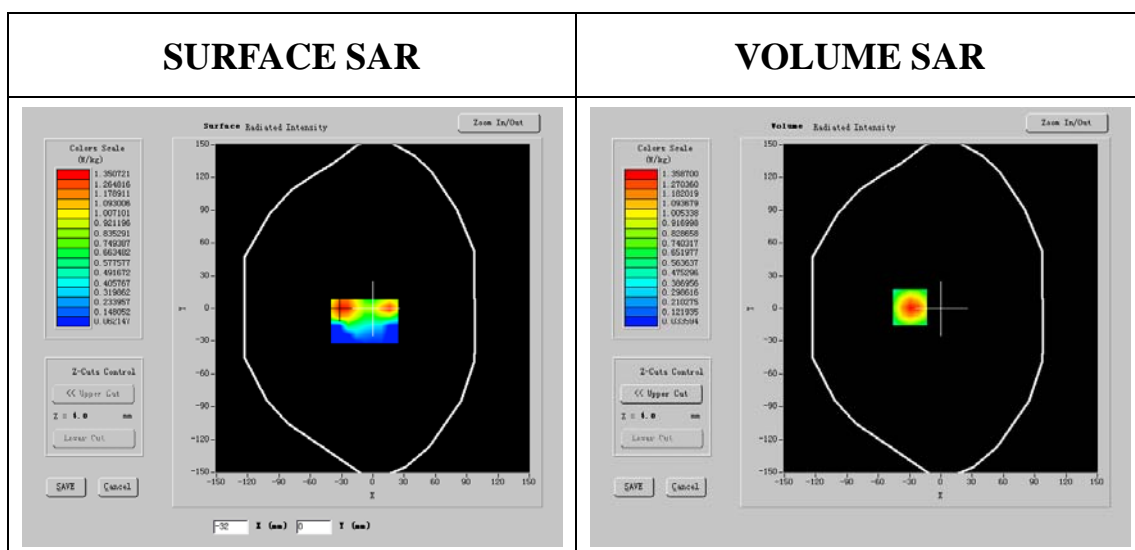
---

## **B. Instrumentations.**

|                         |   |
|-------------------------|---|
| <b>PC</b>               | HP (Pentium(R) V3.06GHz, SN:375052-AA1) |
| <b>Network Emulator</b> | R&S (CMU200, SN:B23-03291)              |
| <b>Voltmeter</b>        | Keithley (2000, SN:1015843)             |
| <b>Synthetizer</b>      | Agilent (E8257C, SN:MY43321570)         |
| <b>Amplifier</b>        | Mini-Circuits (ZHL-42, SN:110405)       |
| <b>Power Meter</b>      | Agilent (E4416A, SN:QB41292714)         |
| <b>Probe</b>            | Antennessa (SN:SN11/09 EP100)           |
| <b>Phantom</b>          | Antennessa (SN:SN41_05_SAM29)           |
| <b>Liquid</b>           | Antennessa                              |

## C. SAR Measurement Results

|   |             |
|---|-------------|
| <b>Frequency (MHz)</b>                        | 1747.400004 |
| <b>Relative permittivity (real part)</b>      | 51.417028   |
| <b>Relative permittivity (imaginary part)</b> | 14.293556   |
| <b>Conductivity (S/m)</b>                     | 1.514286    |
| <b>Variation (%)</b>                          | -1.100000   |



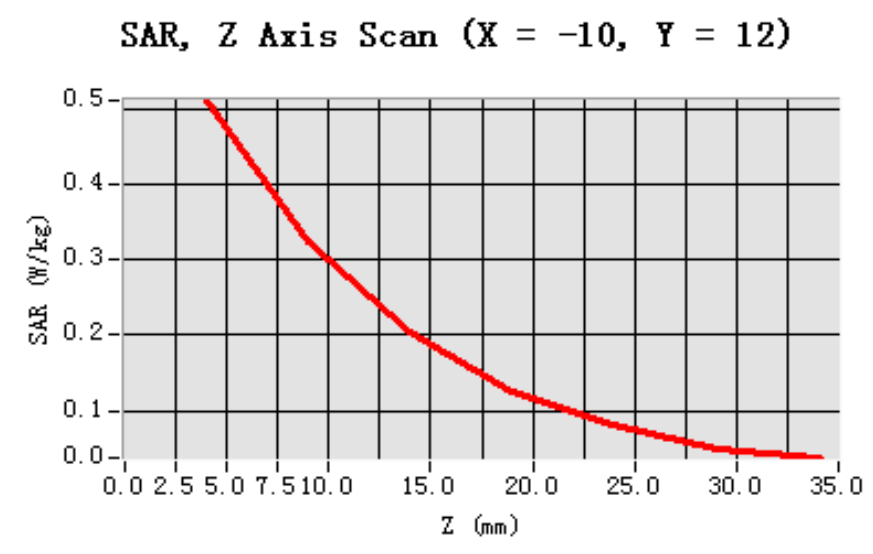
---

**Maximum location: X=-31.00, Y=-16.00**

|                      |          |
|----------------------|----------|
| <b>SAR 1g (W/Kg)</b> | 0.356128 |
|----------------------|----------|

---

## Z Axis Scan





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## MEASUREMENT 3

Type: Phone measurement (Complete)

Date of measurement: 13/5/2010

Measurement duration: 6 minutes 21 seconds

Mobile Phone IMEI number: --

### **A. Experimental conditions.**

|                        |                            |
|------------------------|----------------------------|
| <b>Phantom File</b>    | zinf15.txt, Adaptive 2 max |
| <b>Phantom</b>         | Validation plane           |
| <b>Device Position</b> | Body                       |
| <b>Band</b>            | GPRS1900                   |
| <b>Channels</b>        | High                       |
| <b>Signal</b>          | GPRS                       |

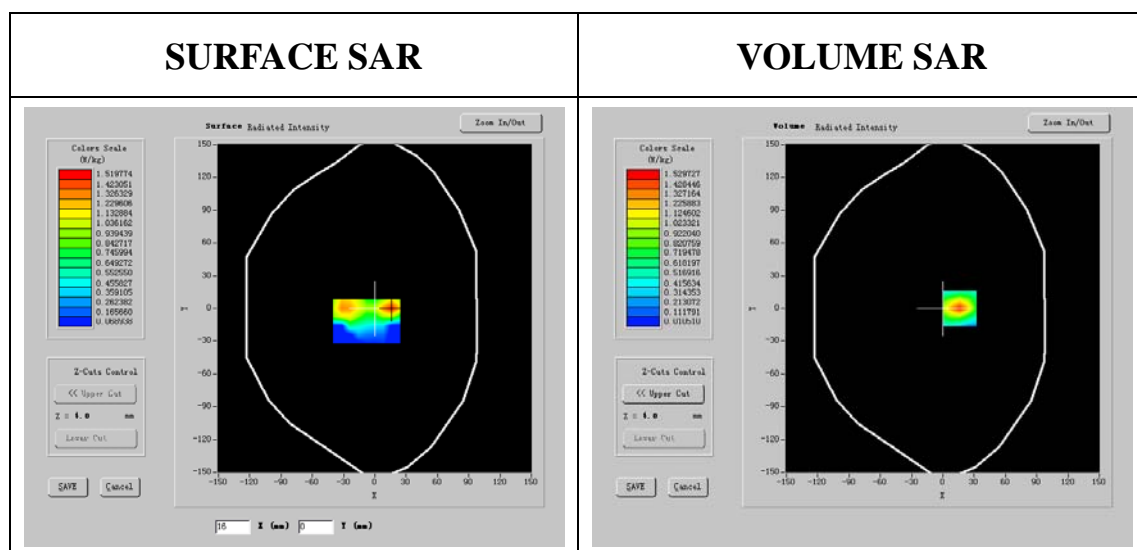
---

## **B. Instrumentations.**

|                         |   |
|-------------------------|---|
| <b>PC</b>               | HP (Pentium(R) V3.06GHz, SN:375052-AA1) |
| <b>Network Emulator</b> | R&S (CMU200, SN:B23-03291)              |
| <b>Voltmeter</b>        | Keithley (2000, SN:1015843)             |
| <b>Synthesizer</b>      | Agilent (E8257C, SN:MY43321570)         |
| <b>Amplifier</b>        | Mini-Circuits (ZHL-42, SN:110405)       |
| <b>Power Meter</b>      | Agilent (E4416A, SN:QB41292714)         |
| <b>Probe</b>            | Antennessa (SN:SN11/09 EP100)           |
| <b>Phantom</b>          | Antennessa (SN:SN41_05_SAM29)           |
| <b>Liquid</b>           | Antennessa                              |

## C. SAR Measurement Results

|   |             |
|---|-------------|
| <b>Frequency (MHz)</b>                        | 1784.599036 |
| <b>Relative permittivity (real part)</b>      | 51.813332   |
| <b>Relative permittivity (imaginary part)</b> | 14.319230   |
| <b>Conductivity (S/m)</b>                     | 1.513224    |
| <b>Variation (%)</b>                          | -0.130000   |



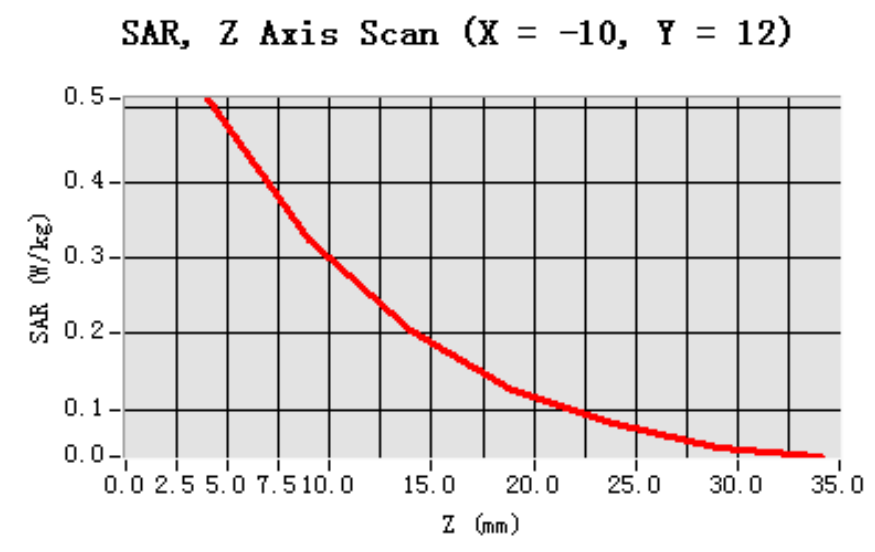
---

**Maximum location: X=2.00, Y=9.00**

|                      |          |
|----------------------|----------|
| <b>SAR 1g (W/Kg)</b> | 0.436121 |
|----------------------|----------|

---

## Z Axis Scan



---

# Face down without earphone

## MEASUREMENT 1

Type: Phone measurement (Complete)

Date of measurement: 13/5/2010

Measurement duration: 6 minutes 46 seconds

Mobile Phone IMEI number: --

### **A. Experimental conditions.**

|                        |                              |
|------------------------|------------------------------|
| <b>Phantom File</b>    | zinf15.txt, Adaptative 2 max |
| <b>Phantom</b>         | Validation plane             |
| <b>Device Position</b> | Body                         |
| <b>Band</b>            | GPRS1900                     |
| <b>Channels</b>        | Low                          |
| <b>Signal</b>          | GPRS                         |

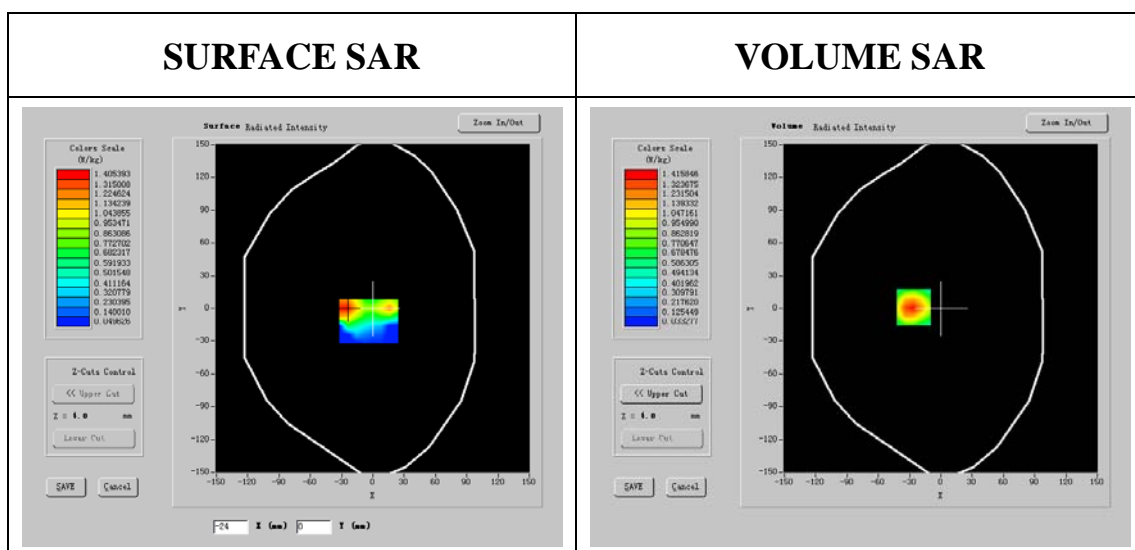
---

## **B. Instrumentations.**

|                         |   |
|-------------------------|---|
| <b>PC</b>               | HP (Pentium(R) V3.06GHz, SN:375052-AA1) |
| <b>Network Emulator</b> | R&S (CMU200, SN:B23-03291)              |
| <b>Voltmeter</b>        | Keithley (2000, SN:1015843)             |
| <b>Synthesizer</b>      | Agilent (E8257C, SN:MY43321570)         |
| <b>Amplifier</b>        | Mini-Circuits (ZHL-42, SN:110405)       |
| <b>Power Meter</b>      | Agilent (E4416A, SN:QB41292714)         |
| <b>Probe</b>            | Antennessa (SN:SN_11/09_EP_100)         |
| <b>Phantom</b>          | Antennessa (SN:SN41_05_SAM29)           |
| <b>Liquid</b>           | Antennessa                              |

## C. SAR Measurement Results

|   |             |
|---|-------------|
| <b>Frequency (MHz)</b>                        | 1710.199951 |
| <b>Relative permittivity (real part)</b>      | 54.147400   |
| <b>Relative permittivity (imaginary part)</b> | 13.892153   |
| <b>Conductivity (S/m)</b>                     | 1.588198    |
| <b>Variation (%)</b>                          | -0.220000   |





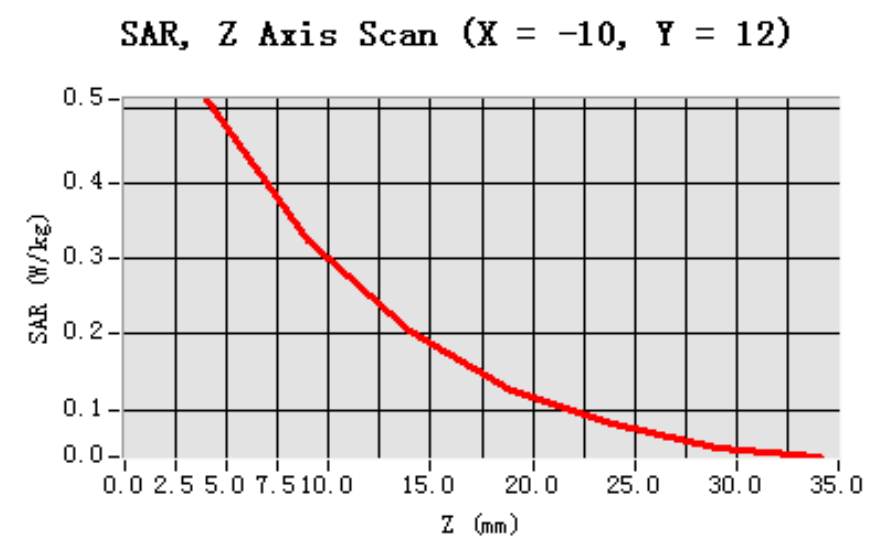
---

**Maximum location: X=-31.00, Y=-16.00**

|                      |          |
|----------------------|----------|
| <b>SAR 1g (W/Kg)</b> | 0.438471 |
|----------------------|----------|

---

## Z Axis Scan



---

## MEASUREMENT 2

Type: Phone measurement (Complete)

Date of measurement: 13/5/2010

Measurement duration: 6 minutes 51 seconds

Mobile Phone IMEI number: --

### **A. Experimental conditions.**

|                        |                            |
|------------------------|----------------------------|
| <b>Phantom File</b>    | zinf15.txt, Adaptive 2 max |
| <b>Phantom</b>         | Validation plane           |
| <b>Device Position</b> | Body                       |
| <b>Band</b>            | GPRS1900                   |
| <b>Channels</b>        | Middle                     |
| <b>Signal</b>          | GPRS                       |

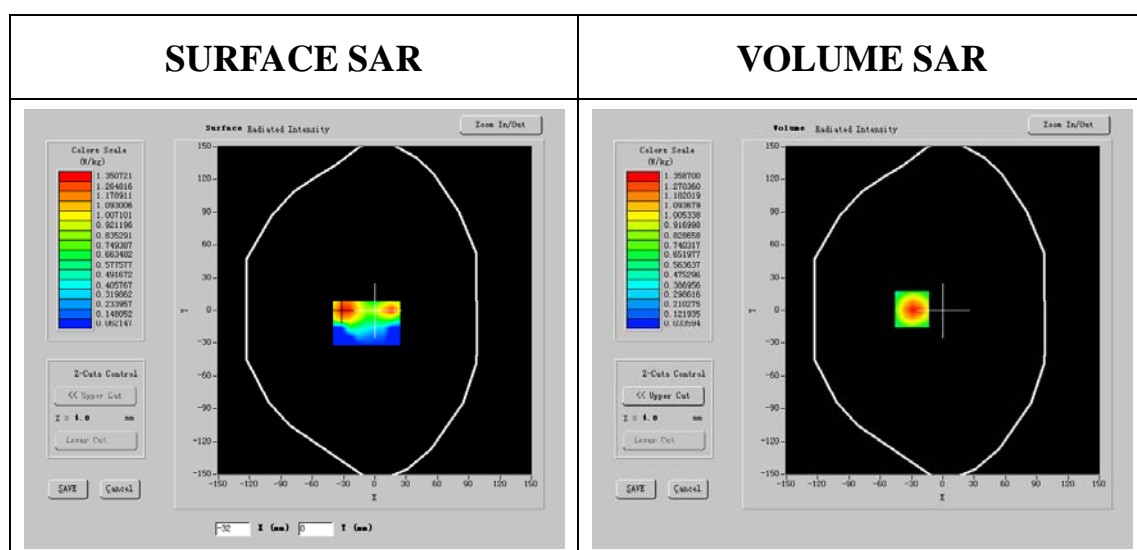
---

## **B. Instrumentations.**

|                         |   |
|-------------------------|---|
| <b>PC</b>               | HP (Pentium(R) V3.06GHz, SN:375052-AA1) |
| <b>Network Emulator</b> | R&S (CMU200, SN:B23-03291)              |
| <b>Voltmeter</b>        | Keithley (2000, SN:1015843)             |
| <b>Synthesizer</b>      | Agilent (E8257C, SN:MY43321570)         |
| <b>Amplifier</b>        | Mini-Circuits (ZHL-42, SN:110405)       |
| <b>Power Meter</b>      | Agilent (E4416A, SN:QB41292714)         |
| <b>Probe</b>            | Antennessa (SN:SN_11/09_EP_100)         |
| <b>Phantom</b>          | Antennessa (SN:SN41_05_SAM29)           |
| <b>Liquid</b>           | Antennessa                              |

## C. SAR Measurement Results

|   |             |
|---|-------------|
| <b>Frequency (MHz)</b>                        | 1747.400004 |
| <b>Relative permittivity (real part)</b>      | 54.221428   |
| <b>Relative permittivity (imaginary part)</b> | 14.001456   |
| <b>Conductivity (S/m)</b>                     | 1.589086    |
| <b>Variation (%)</b>                          | -1.200000   |



---

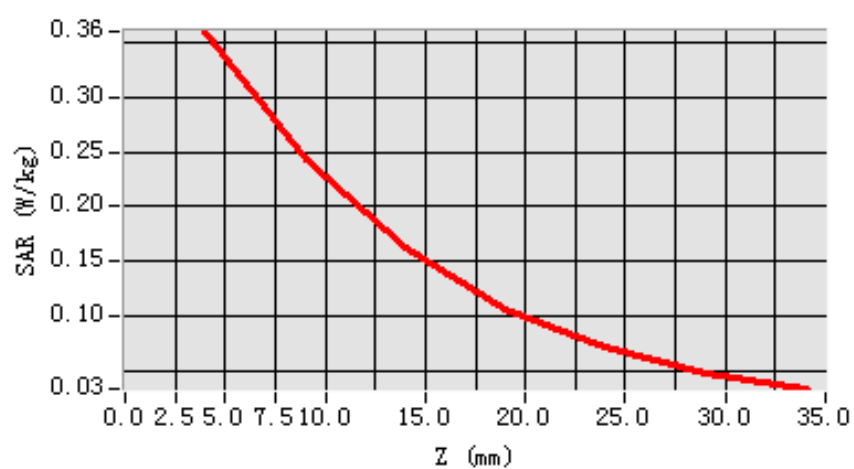
**Maximum location: X=-31.00, Y=-16.00**

|                      |          |
|----------------------|----------|
| <b>SAR 1g (W/Kg)</b> | 0.359361 |
|----------------------|----------|

---

## Z Axis Scan

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



---

## MEASUREMENT 3

Type: Phone measurement (Complete)

Date of measurement: 13/5/2010

Measurement duration: 6 minutes 21 seconds

Mobile Phone IMEI number: --

### **A. Experimental conditions.**

|                        |                              |
|------------------------|------------------------------|
| <b>Phantom File</b>    | zinf15.txt, Adaptative 2 max |
| <b>Phantom</b>         | Validation plane             |
| <b>Device Position</b> | Body                         |
| <b>Band</b>            | GPRS1900                     |
| <b>Channels</b>        | High                         |
| <b>Signal</b>          | GPRS                         |



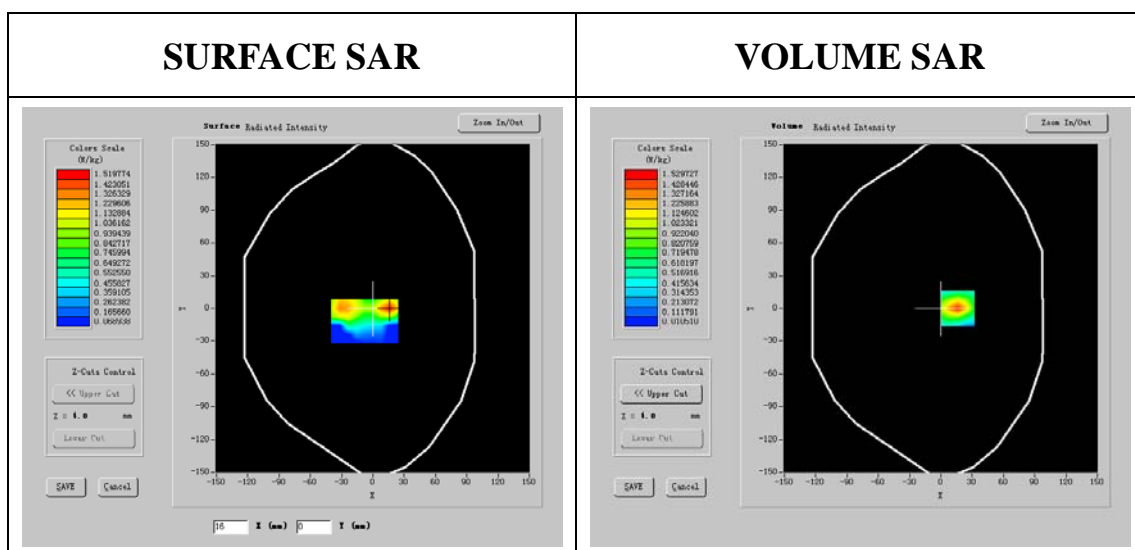
---

## **B. Instrumentations.**

|                         |   |
|-------------------------|---|
| <b>PC</b>               | HP (Pentium(R) V3.06GHz, SN:375052-AA1) |
| <b>Network Emulator</b> | R&S (CMU200, SN:B23-03291)              |
| <b>Voltmeter</b>        | Keithley (2000, SN:1015843)             |
| <b>Synthetizer</b>      | Agilent (E8257C, SN:MY43321570)         |
| <b>Amplifier</b>        | Mini-Circuits (ZHL-42, SN:110405)       |
| <b>Power Meter</b>      | Agilent (E4416A, SN:QB41292714)         |
| <b>Probe</b>            | Antennessa (SN:SN_11/09_EP_100)         |
| <b>Phantom</b>          | Antennessa (SN:SN41_05_SAM29)           |
| <b>Liquid</b>           | Antennessa                              |

## C. SAR Measurement Results

|   |             |
|---|-------------|
| <b>Frequency (MHz)</b>                        | 1784.599036 |
| <b>Relative permittivity (real part)</b>      | 53.802142   |
| <b>Relative permittivity (imaginary part)</b> | 13.821430   |
| <b>Conductivity (S/m)</b>                     | 1.585465    |
| <b>Variation (%)</b>                          | -0.100000   |



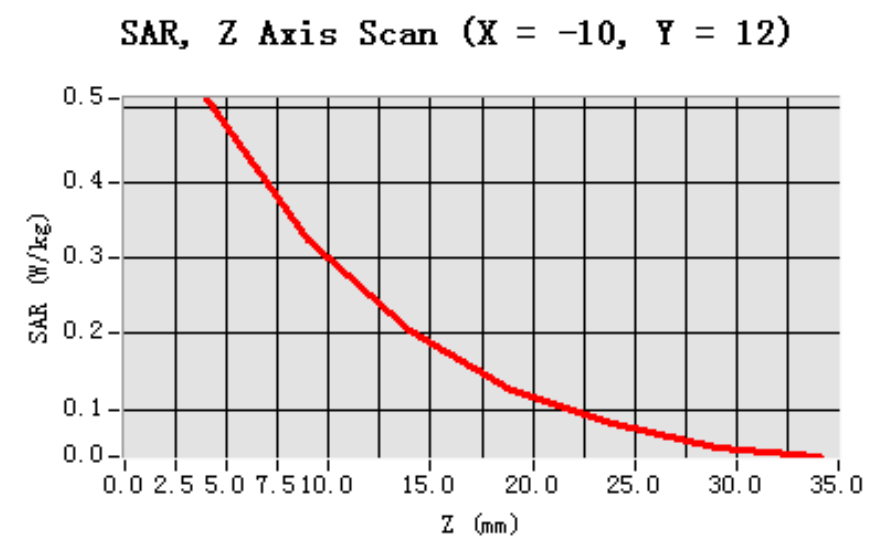
---

**Maximum location: X=2.00, Y=9.00**

|                      |          |
|----------------------|----------|
| <b>SAR 1g (W/Kg)</b> | 0.441244 |
|----------------------|----------|

---

## Z Axis Scan



# EUT Slide off

## GSM850

### I. RESULTS

| <u>TYPE</u>       | <u>BAND</u>   | <u>PARAMETERS</u>   |
|-------------------|---------------|---|
| <u>Noise</u>      | --            | --  |
| <u>Validation</u> | --            | --  |
| <u>Phone</u>      | <u>GSM850</u> | <u>Measurement 1:</u> Right Head with Cheek device position on Low Channel in GSM mode<br><u>Measurement 2:</u> Right Head with Cheek device position on Middle Channel in GSM mode<br><u>Measurement 3:</u> Right Head with Cheek device position on High Channel in GSM mode<br><u>Measurement 4:</u> Right Head with Tilt device position on Low Channel in GSM mode<br><u>Measurement 5:</u> Right Head with Tilt device position on Middle Channel in GSM mode<br><u>Measurement 6:</u> Right Head with Tilt device position on High Channel in GSM mode<br><u>Measurement 7:</u> Left Head with Cheek device position on Low Channel in GSM mode<br><u>Measurement 8:</u> Left Head with Cheek device position on Middle Channel in GSM mode<br><u>Measurement 9:</u> Left Head with Cheek device position on High Channel in GSM mode<br><u>Measurement 10:</u> Left Head with Tilt device position on Low Channel in GSM mode<br><u>Measurement 11:</u> Left Head with Tilt device position on Middle Channel in GSM mode<br><u>Measurement 12:</u> Left Head with Tilt device position on High Channel in GSM mode |

---

## MEASUREMENT 1

Type: Phone measurement (Complete)

Date of measurement: 13/5/2010

Measurement duration: 19 minutes 56 seconds

Mobile Phone IMEI number: --

### **A. Experimental conditions.**

|                        |                              |
|------------------------|------------------------------|
| <b>Phantom File</b>    | zinf15.txt, Adaptative 2 max |
| <b>Phantom</b>         | Right head                   |
| <b>Device Position</b> | Cheek                        |
| <b>Band</b>            | GSM850                       |
| <b>Channels</b>        | Low                          |
| <b>Signal</b>          | GSM                          |

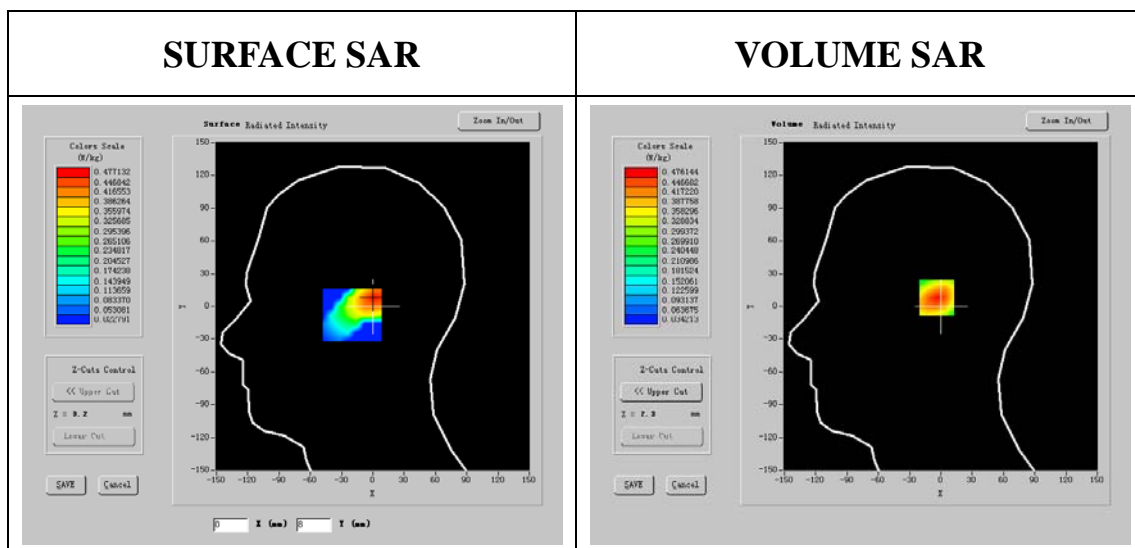
---

## **B. Instrumentations.**

|                         |   |
|-------------------------|---|
| <b>PC</b>               | HP (Pentium(R) V3.06GHz, SN:375052-AA1) |
| <b>Network Emulator</b> | R&S (CMU200, SN:B23-03291)              |
| <b>Voltmeter</b>        | Keithley (2000, SN:1015843)             |
| <b>Synthetizer</b>      | Agilent (E8257C, SN:MY43321570)         |
| <b>Amplifier</b>        | Mini-Circuits (ZHL-42, SN:110405)       |
| <b>Power Meter</b>      | Agilent (E4416A, SN:QB41292714)         |
| <b>Probe</b>            | Antennessa (SN:SN_1109_EP_100)          |
| <b>Phantom</b>          | Antennessa (SN:SN41_05_SAM29)           |
| <b>Liquid</b>           | Antennessa                              |

## C. SAR Measurement Results

|   |            |
|---|------------|
| <b>Frequency (MHz)</b>                        | 824.200001 |
| <b>Relative permittivity (real part)</b>      | 41.489245  |
| <b>Relative permittivity (imaginary part)</b> | 19.510000  |
| <b>Conductivity (S/m)</b>                     | 0.853690   |
| <b>Variation (%)</b>                          | -1.000000  |





---

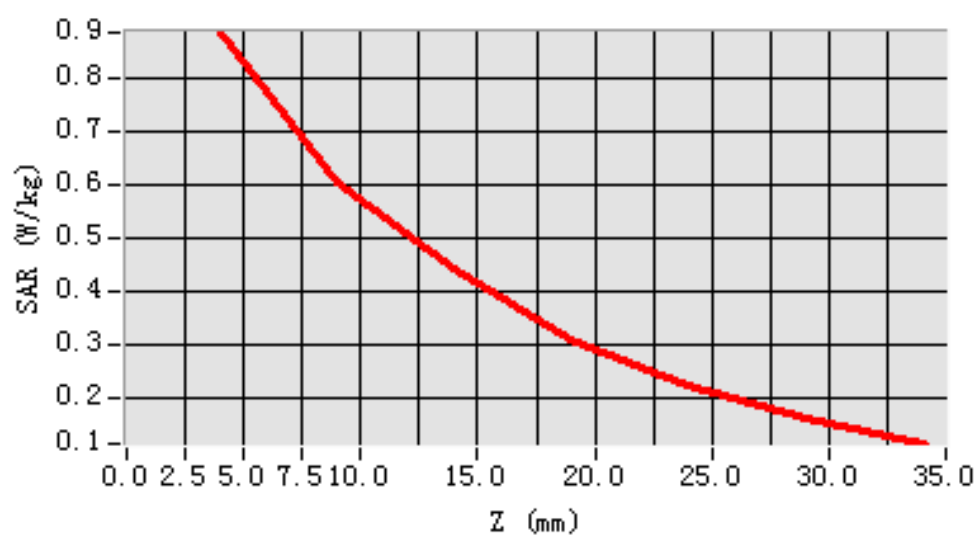
**Maximum location: X=-13.00, Y=-3.00**

|                      |          |
|----------------------|----------|
| <b>SAR 1g (W/Kg)</b> | 0.863224 |
|----------------------|----------|

---

## Z Axis Scan

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



---

## MEASUREMENT 2

Type: Phone measurement (Complete)

Date of measurement: 13/5/2010

Measurement duration: 19 minutes 56 seconds

Mobile Phone IMEI number: --

### **A. Experimental conditions.**

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

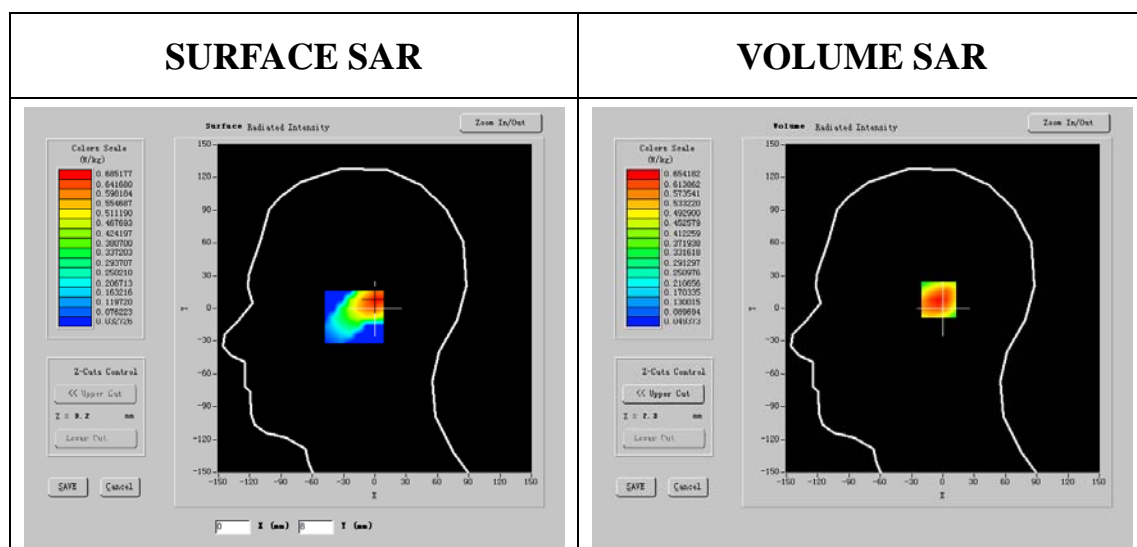
### **B. Instrumentations.**

---

|                         |   |
|-------------------------|---|
| <b>PC</b>               | HP (Pentium(R) V3.06GHz, SN:375052-AA1) |
| <b>Network Emulator</b> | R&S (CMU200, SN:B23-03291)              |
| <b>Voltmeter</b>        | Keithley (2000, SN:1015843)             |
| <b>Synthetizer</b>      | Agilent (E8257C, SN:MY43321570)         |
| <b>Amplifier</b>        | Mini-Circuits (ZHL-42, SN:110405)       |
| <b>Power Meter</b>      | Agilent (E4416A, SN:QB41292714)         |
| <b>Probe</b>            | Antennessa (SN:SN_1109_EP_100)          |
| <b>Phantom</b>          | Antennessa (SN:SN41_05_SAM29)           |
| <b>Liquid</b>           | Antennessa                              |

### C. SAR Measurement Results

|  |            |
|--|------------|
| Frequency (MHz)                        | 836.590001 |
| Relative permittivity (real part)      | 41.412030  |
| Relative permittivity (imaginary part) | 19.510201  |
| Conductivity (S/m)                     | 0.907024   |
| Variation (%)                          | -0.100000  |



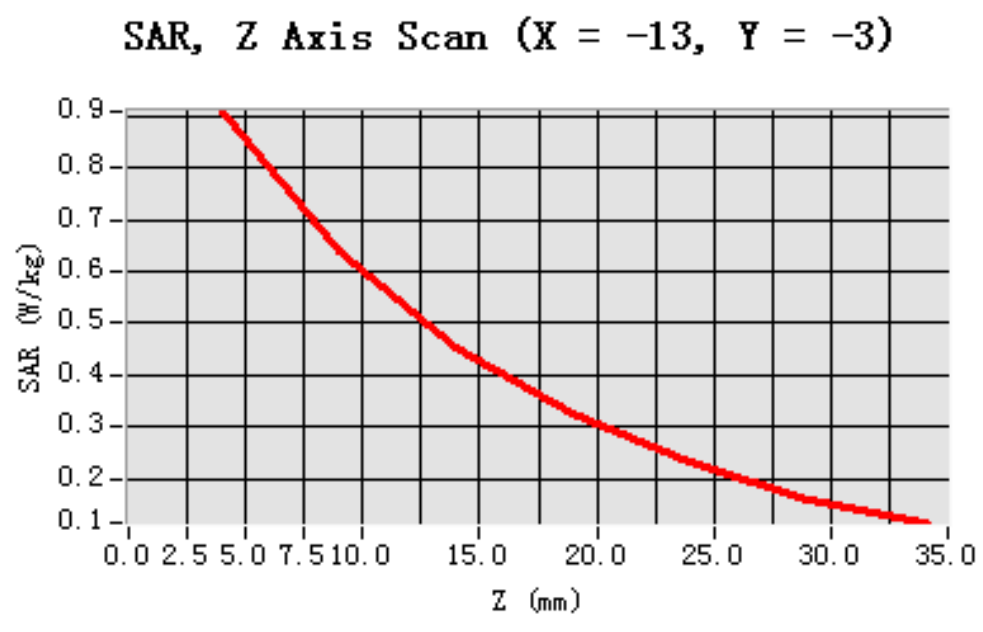
---

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

|                      |          |
|----------------------|----------|
| <b>SAR 1g (W/Kg)</b> | 0.836217 |
|----------------------|----------|

---

### Z Axis Scan



---

## MEASUREMENT 3

Type: Phone measurement (Complete)

Date of measurement: 13/5/2010

Measurement duration: 19 minutes 56 seconds

Mobile Phone IMEI number: --

### **A. Experimental conditions.**

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

### **B. Instrumentations.**

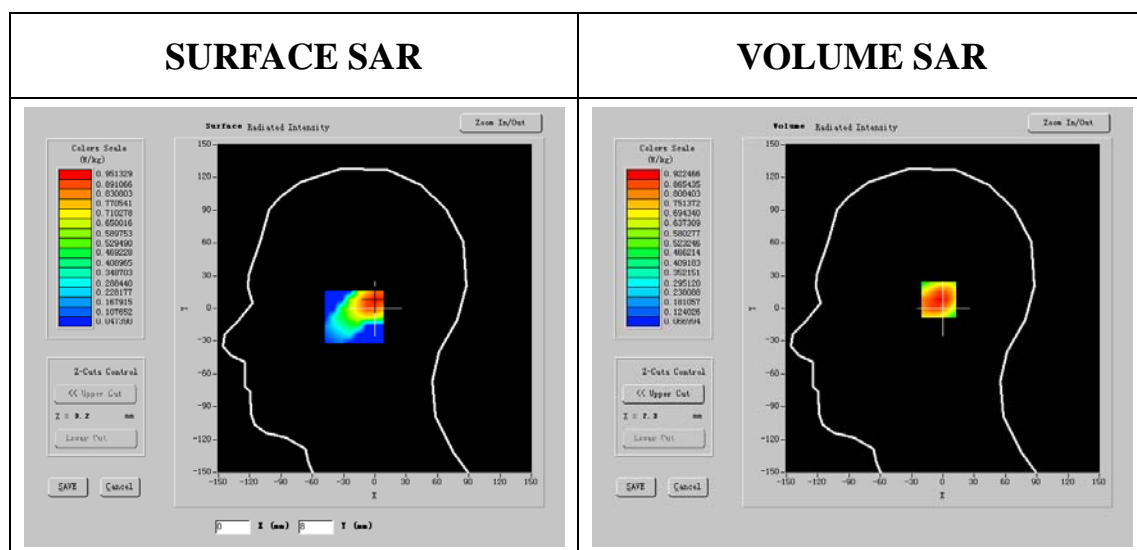


---

|                         |   |
|-------------------------|---|
| <b>PC</b>               | HP (Pentium(R) V3.06GHz, SN:375052-AA1) |
| <b>Network Emulator</b> | R&S (CMU200, SN:B23-03291)              |
| <b>Voltmeter</b>        | Keithley (2000, SN:1015843)             |
| <b>Synthesizer</b>      | Agilent (E8257C, SN:MY43321570)         |
| <b>Amplifier</b>        | Mini-Circuits (ZHL-42, SN:110405)       |
| <b>Power Meter</b>      | Agilent (E4416A, SN:QB41292714)         |
| <b>Probe</b>            | Antennessa (SN:SN_1109_EP_100)          |
| <b>Phantom</b>          | Antennessa (SN:SN41_05_SAM29)           |
| <b>Liquid</b>           | Antennessa                              |

## C. SAR Measurement Results

|   |            |
|---|------------|
| <b>Frequency (MHz)</b>                        | 848.799999 |
| <b>Relative permittivity (real part)</b>      | 41.212030  |
| <b>Relative permittivity (imaginary part)</b> | 19.587020  |
| <b>Conductivity (S/m)</b>                     | 0.903216   |
| <b>Variation (%)</b>                          | -0.100000  |



---

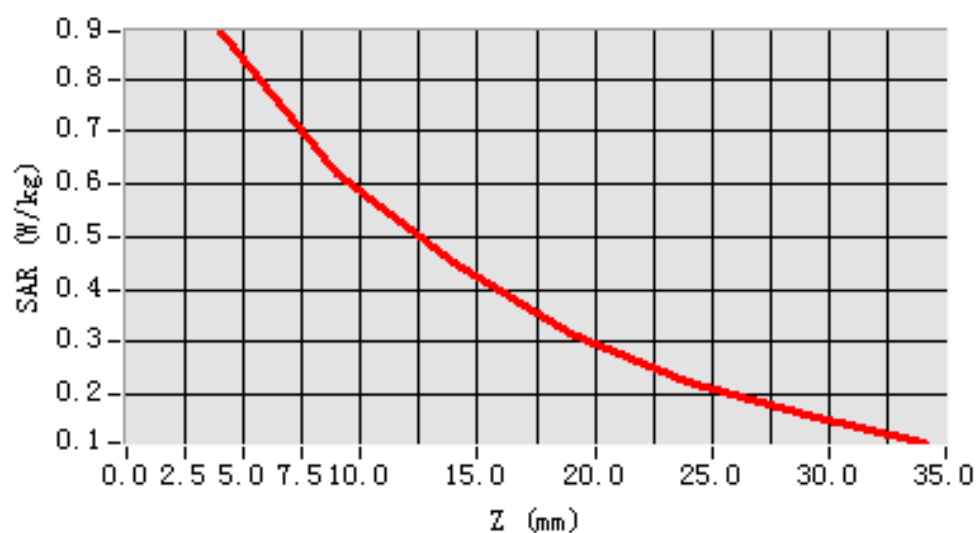
**Maximum location: X=-13.00, Y=-3.00**

|                      |          |
|----------------------|----------|
| <b>SAR 1g (W/Kg)</b> | 0.824537 |
|----------------------|----------|

---

### Z Axis Scan

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



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## MEASUREMENT 4

Type: Phone measurement (Complete)

Date of measurement: 13/5/2010

Measurement duration: 19 minutes 47 seconds

Mobile Phone IMEI number: --

### **A. Experimental conditions.**

|                        |                              |
|------------------------|------------------------------|
| <b>Phantom File</b>    | zinf15.txt, Adaptative 2 max |
| <b>Phantom</b>         | Right head                   |
| <b>Device Position</b> | Tilt                         |
| <b>Band</b>            | GSM850                       |
| <b>Channels</b>        | Low                          |
| <b>Signal</b>          | GSM                          |

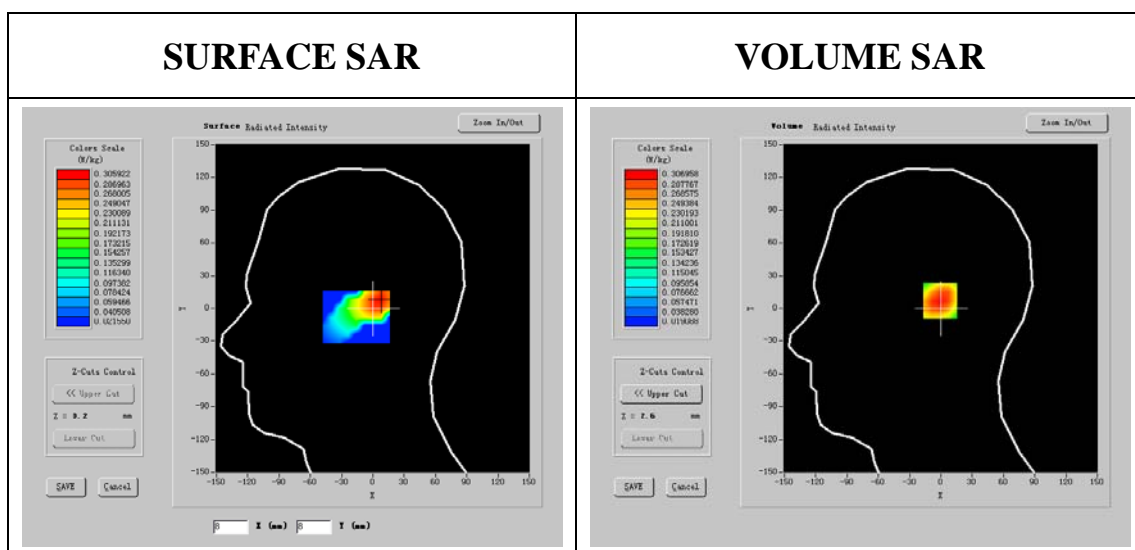
### **B. Instrumentations.**

---

|                         |   |
|-------------------------|---|
| <b>PC</b>               | HP (Pentium(R) V3.06GHz, SN:375052-AA1) |
| <b>Network Emulator</b> | R&S (CMU200, SN:B23-03291)              |
| <b>Voltmeter</b>        | Keithley (2000, SN:1015843)             |
| <b>Synthesizer</b>      | Agilent (E8257C, SN:MY43321570)         |
| <b>Amplifier</b>        | Mini-Circuits (ZHL-42, SN:110405)       |
| <b>Power Meter</b>      | Agilent (E4416A, SN:QB41292714)         |
| <b>Probe</b>            | Antennessa (SN:SN_1109_EP_100)          |
| <b>Phantom</b>          | Antennessa (SN:SN41_05_SAM29)           |
| <b>Liquid</b>           | Antennessa                              |

## C. SAR Measurement Results

|   |            |
|---|------------|
| <b>Frequency (MHz)</b>                        | 824.202012 |
| <b>Relative permittivity (real part)</b>      | 41.424829  |
| <b>Relative permittivity (imaginary part)</b> | 19.524721  |
| <b>Conductivity (S/m)</b>                     | 0.814922   |
| <b>Variation (%)</b>                          | -1.000000  |



---

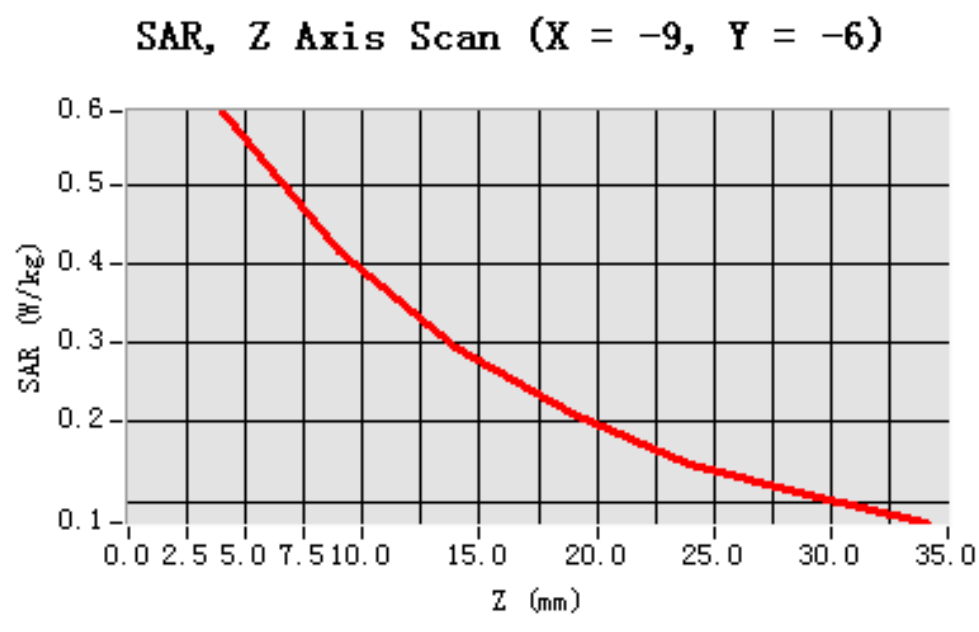
**Maximum location: X=-9.00, Y=-6.00**

|                      |          |
|----------------------|----------|
| <b>SAR 1g (W/Kg)</b> | 0.636211 |
|----------------------|----------|



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## Z Axis Scan



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## MEASUREMENT 5

Type: Phone measurement (Complete)

Date of measurement: 13/5/2010

Measurement duration: 19 minutes 47 seconds

Mobile Phone IMEI number: --

### **A. Experimental conditions.**

|                        |                              |
|------------------------|------------------------------|
| <b>Phantom File</b>    | zinf15.txt, Adaptative 2 max |
| <b>Phantom</b>         | Right head                   |
| <b>Device Position</b> | Tilt                         |
| <b>Band</b>            | GSM850                       |
| <b>Channels</b>        | Middle                       |
| <b>Signal</b>          | GSM                          |

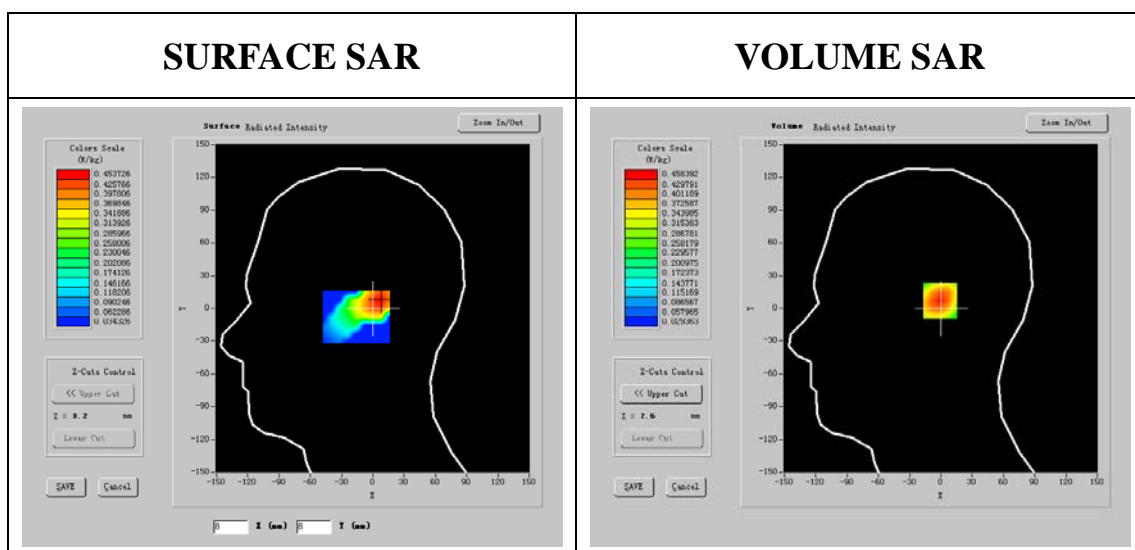
### **B. Instrumentations.**

---

|                         |   |
|-------------------------|---|
| <b>PC</b>               | HP (Pentium(R) V3.06GHz, SN:375052-AA1) |
| <b>Network Emulator</b> | R&S (CMU200, SN:B23-03291)              |
| <b>Voltmeter</b>        | Keithley (2000, SN:1015843)             |
| <b>Synthesizer</b>      | Agilent (E8257C, SN:MY43321570)         |
| <b>Amplifier</b>        | Mini-Circuits (ZHL-42, SN:110405)       |
| <b>Power Meter</b>      | Agilent (E4416A, SN:QB41292714)         |
| <b>Probe</b>            | Antennessa (SN:SN_1109_EP_100)          |
| <b>Phantom</b>          | Antennessa (SN:SN41_05_SAM29)           |
| <b>Liquid</b>           | Antennessa                              |

## C. SAR Measurement Results

|   |            |
|---|------------|
| <b>Frequency (MHz)</b>                        | 836.600210 |
| <b>Relative permittivity (real part)</b>      | 41.421339  |
| <b>Relative permittivity (imaginary part)</b> | 19.530121  |
| <b>Conductivity (S/m)</b>                     | 0.903127   |
| <b>Variation (%)</b>                          | -0.800000  |



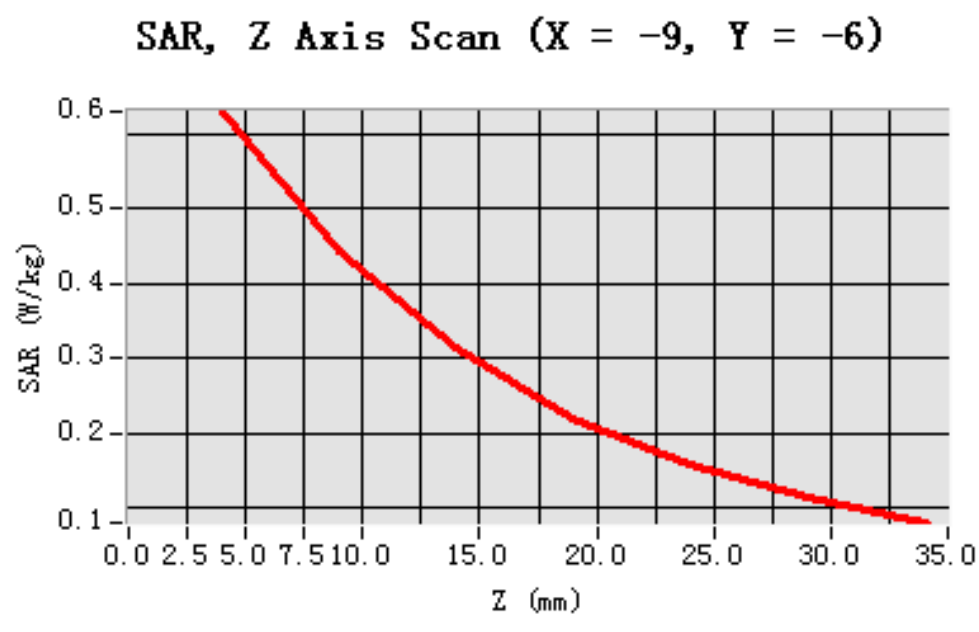
---

**Maximum location: X=-9.00, Y=-6.00**

|                      |          |
|----------------------|----------|
| <b>SAR 1g (W/Kg)</b> | 0.648238 |
|----------------------|----------|

---

## Z Axis Scan



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## MEASUREMENT 6

Type: Phone measurement (Complete)

Date of measurement: 13/5/2010

Measurement duration: 19 minutes 47 seconds

Mobile Phone IMEI number: --

### **A. Experimental conditions.**

|                        |                            |
|------------------------|----------------------------|
| <b>Phantom File</b>    | zinf15.txt, Adaptive 2 max |
| <b>Phantom</b>         | Right hand                 |
| <b>Device Position</b> | Tilt                       |
| <b>Band</b>            | GSM850                     |
| <b>Channels</b>        | High                       |
| <b>Signal</b>          | GSM                        |

### **B. Instrumentations.**

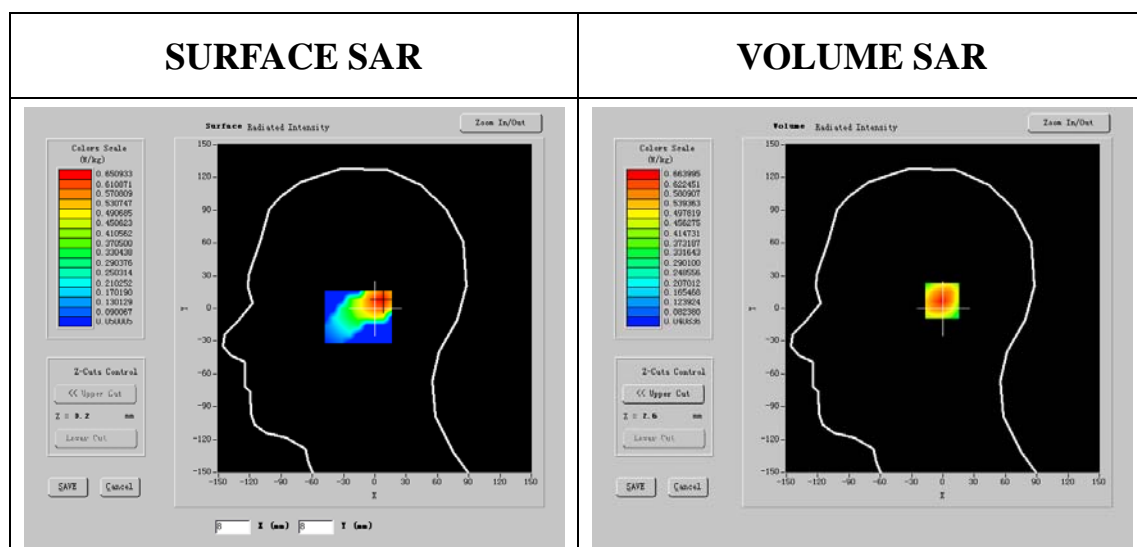
---

|                         |   |
|-------------------------|---|
| <b>PC</b>               | HP (Pentium(R) V3.06GHz, SN:375052-AA1) |
| <b>Network Emulator</b> | R&S (CMU200, SN:B23-03291)              |
| <b>Voltmeter</b>        | Keithley (2000, SN:1015843)             |
| <b>Synthesizer</b>      | Agilent (E8257C, SN:MY43321570)         |
| <b>Amplifier</b>        | Mini-Circuits (ZHL-42, SN:110405)       |
| <b>Power Meter</b>      | Agilent (E4416A, SN:QB41292714)         |
| <b>Probe</b>            | Antennessa (SN:SN_1109_EP_100)          |
| <b>Phantom</b>          | Antennessa (SN:SN41_05_SAM29)           |
| <b>Liquid</b>           | Antennessa                              |



### C. SAR Measurement Results

|  |            |
|--|------------|
| Frequency (MHz)                        | 848.799000 |
| Relative permittivity (real part)      | 41.220341  |
| Relative permittivity (imaginary part) | 19.534020  |
| Conductivity (S/m)                     | 0.902146   |
| Variation (%)                          | -0.120000  |



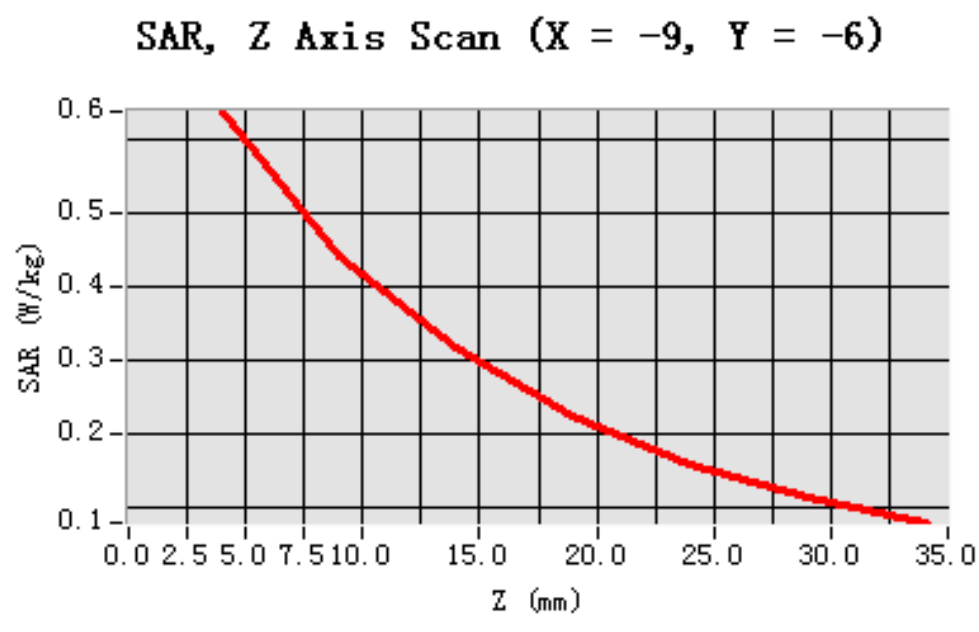
---

**Maximum location: X=-9.00, Y=-6.00**

|                      |          |
|----------------------|----------|
| <b>SAR 1g (W/Kg)</b> | 0.658212 |
|----------------------|----------|

---

## Z Axis Scan



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## MEASUREMENT 7

Type: Phone measurement (Complete)

Date of measurement: 13/5/2010

Measurement duration: 20 minutes 2 seconds

Mobile Phone IMEI number: --

### **A. Experimental conditions.**

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

### **B. Instrumentations.**

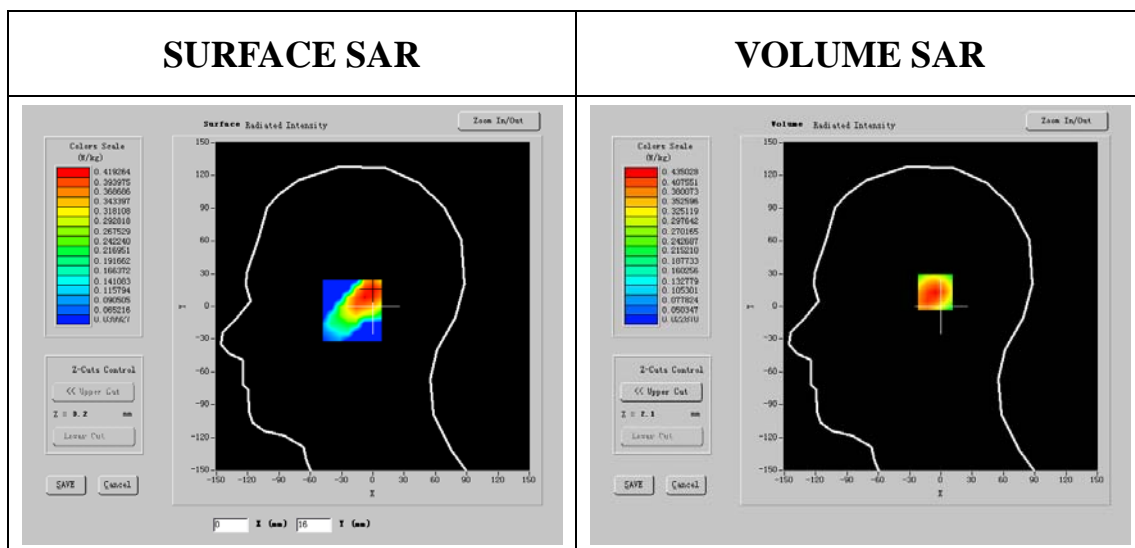
---

|                         |   |
|-------------------------|---|
| <b>PC</b>               | HP (Pentium(R) V3.06GHz, SN:375052-AA1) |
| <b>Network Emulator</b> | R&S (CMU200, SN:B23-03291)              |
| <b>Voltmeter</b>        | Keithley (2000, SN:1015843)             |
| <b>Synthesizer</b>      | Agilent (E8257C, SN:MY43321570)         |
| <b>Amplifier</b>        | Mini-Circuits (ZHL-42, SN:110405)       |
| <b>Power Meter</b>      | Agilent (E4416A, SN:QB41292714)         |
| <b>Probe</b>            | Antennessa (SN:SN_1109_EP_100)          |
| <b>Phantom</b>          | Antennessa (SN:SN41_05_SAM29)           |
| <b>Liquid</b>           | Antennessa                              |

## C. SAR Measurement Results

|   |            |
|---|------------|
| <b>Frequency (MHz)</b>                        | 824.203202 |
| <b>Relative permittivity (real part)</b>      | 41.4220139 |
| <b>Relative permittivity (imaginary part)</b> | 19.544006  |
| <b>Conductivity (S/m)</b>                     | 0.834032   |
| <b>Variation (%)</b>                          | -0.400000  |



---

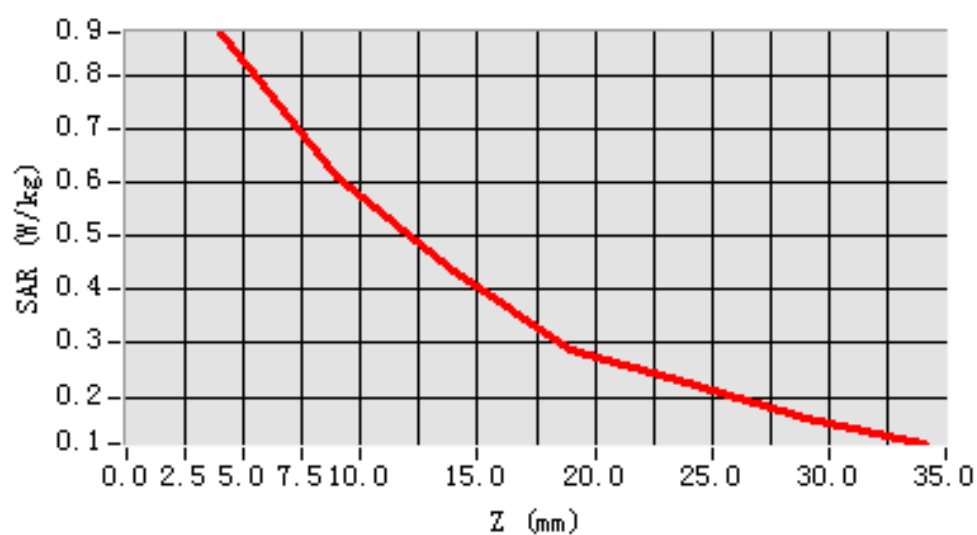
**Maximum location: X=-25.00, Y=-11.00**

|                      |          |
|----------------------|----------|
| <b>SAR 1g (W/Kg)</b> | 0.854232 |
|----------------------|----------|

---

## Z Axis Scan

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





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## MEASUREMENT 8

Type: Phone measurement (Complete)

Date of measurement: 13/5/2010

Measurement duration: 20 minutes 2 seconds

Mobile Phone IMEI number: --

### **A. Experimental conditions.**

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

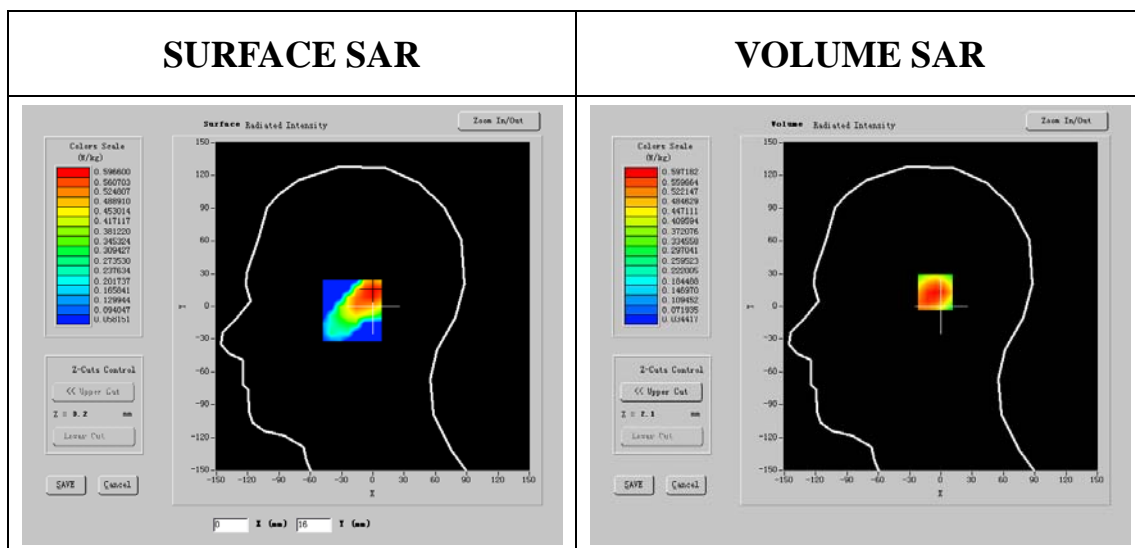
---

## **B. Instrumentations.**

|                         |   |
|-------------------------|---|
| <b>PC</b>               | HP (Pentium(R) V3.06GHz, SN:375052-AA1) |
| <b>Network Emulator</b> | R&S (CMU200, SN:B23-03291)              |
| <b>Voltmeter</b>        | Keithley (2000, SN:1015843)             |
| <b>Synthetizer</b>      | Agilent (E8257C, SN:MY43321570)         |
| <b>Amplifier</b>        | Mini-Circuits (ZHL-42, SN:110405)       |
| <b>Power Meter</b>      | Agilent (E4416A, SN:QB41292714)         |
| <b>Probe</b>            | Antennessa (SN:SN_1109_EP_100)          |
| <b>Phantom</b>          | Antennessa (SN:SN41_05_SAM29)           |
| <b>Liquid</b>           | Antennessa                              |

## C. SAR Measurement Results

|   |            |
|---|------------|
| <b>Frequency (MHz)</b>                        | 836.600010 |
| <b>Relative permittivity (real part)</b>      | 41.484129  |
| <b>Relative permittivity (imaginary part)</b> | 19.540231  |
| <b>Conductivity (S/m)</b>                     | 0.912041   |
| <b>Variation (%)</b>                          | -0.200000  |



---

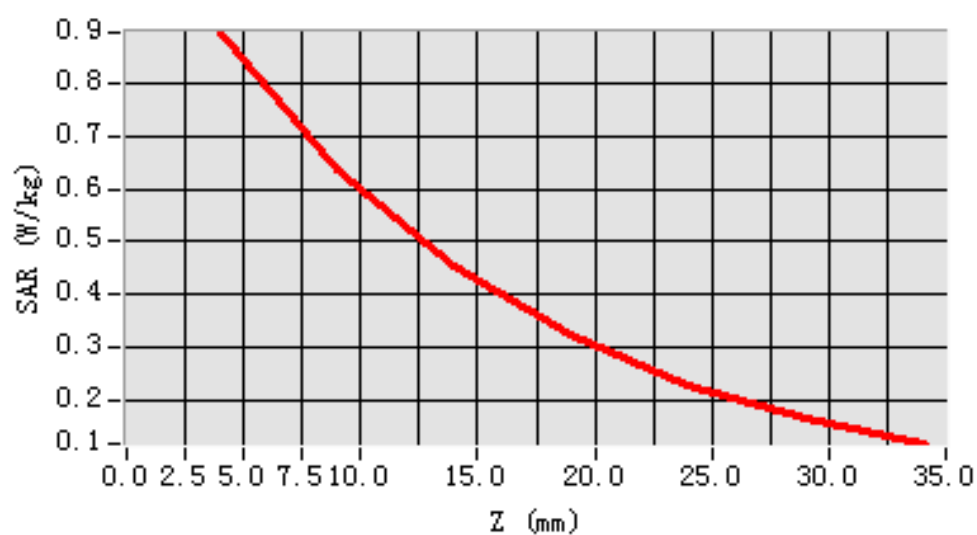
**Maximum location: X=-25.00, Y=-11.00**

|                      |          |
|----------------------|----------|
| <b>SAR 1g (W/Kg)</b> | 0.805322 |
|----------------------|----------|

---

## Z Axis Scan

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



---

## MEASUREMENT 9

Type: Phone measurement (Complete)

Date of measurement: 13/5/2010

Measurement duration: 20 minutes 2 seconds

Mobile Phone IMEI number: --

### **A. Experimental conditions.**

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

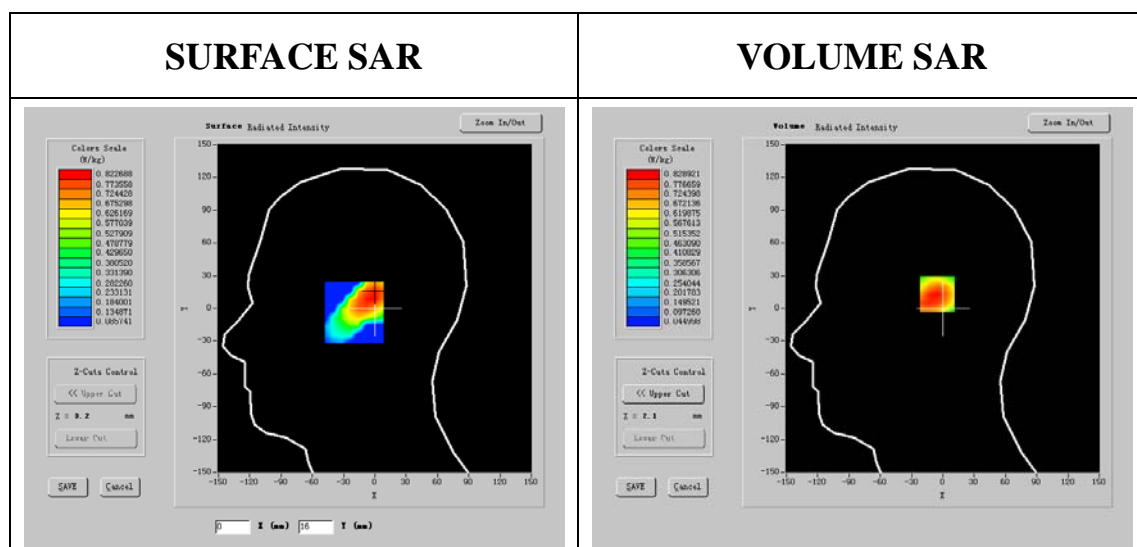
---

## **B. Instrumentations.**

|                         |   |
|-------------------------|---|
| <b>PC</b>               | HP (Pentium(R) V3.06GHz, SN:375052-AA1) |
| <b>Network Emulator</b> | R&S (CMU200, SN:B23-03291)              |
| <b>Voltmeter</b>        | Keithley (2000, SN:1015843)             |
| <b>Synthetizer</b>      | Agilent (E8257C, SN:MY43321570)         |
| <b>Amplifier</b>        | Mini-Circuits (ZHL-42, SN:110405)       |
| <b>Power Meter</b>      | Agilent (E4416A, SN:QB41292714)         |
| <b>Probe</b>            | Antennessa (SN:SN_1109_EP_100)          |
| <b>Phantom</b>          | Antennessa (SN:SN41_05_SAM29)           |
| <b>Liquid</b>           | Antennessa                              |

## C. SAR Measurement Results

|   |            |
|---|------------|
| <b>Frequency (MHz)</b>                        | 848.592416 |
| <b>Relative permittivity (real part)</b>      | 41.234121  |
| <b>Relative permittivity (imaginary part)</b> | 19.531230  |
| <b>Conductivity (S/m)</b>                     | 0.912020   |
| <b>Variation (%)</b>                          | -0.320000  |





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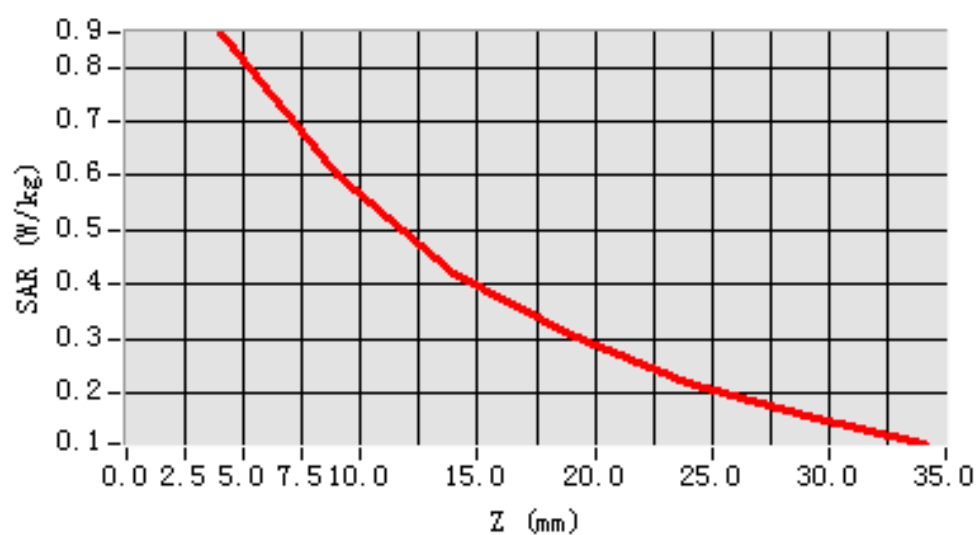
**Maximum location: X=-25.00, Y=-11.00**

|                      |          |
|----------------------|----------|
| <b>SAR 1g (W/Kg)</b> | 0.818233 |
|----------------------|----------|

---

## Z Axis Scan

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



---

## MEASUREMENT 10

Type: Phone measurement (Complete)

Date of measurement: 13/5/2010

Measurement duration: 19 minutes 49 seconds

Mobile Phone IMEI number: --

### **A. Experimental conditions.**

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

### **B. Instrumentations.**

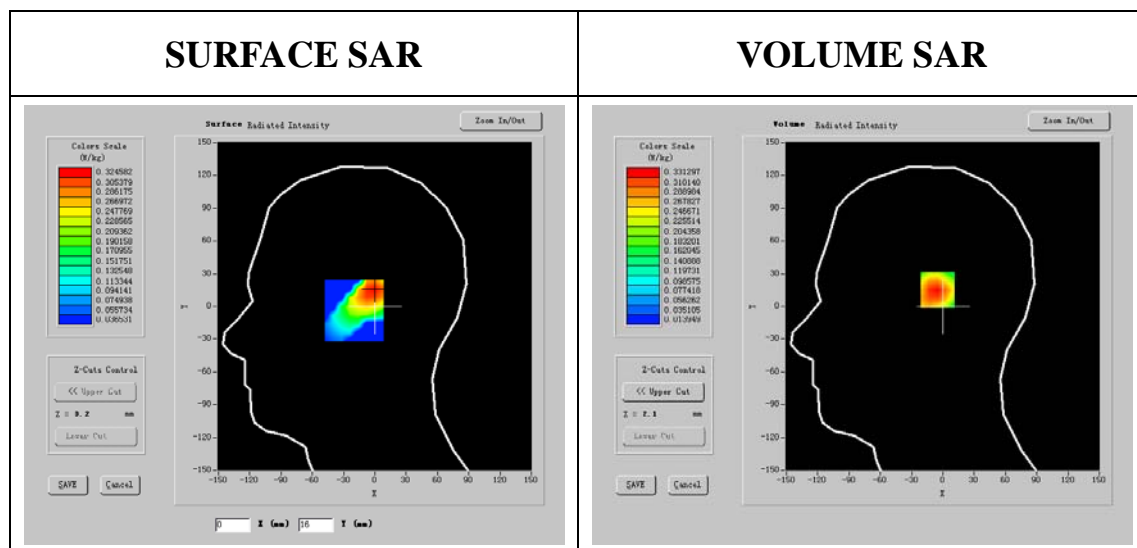
---

|                         |   |
|-------------------------|---|
| <b>PC</b>               | HP (Pentium(R) V3.06GHz, SN:375052-AA1) |
| <b>Network Emulator</b> | R&S (CMU200, SN:B23-03291)              |
| <b>Voltmeter</b>        | Keithley (2000, SN:1015843)             |
| <b>Synthesizer</b>      | Agilent (E8257C, SN:MY43321570)         |
| <b>Amplifier</b>        | Mini-Circuits (ZHL-42, SN:110405)       |
| <b>Power Meter</b>      | Agilent (E4416A, SN:QB41292714)         |
| <b>Probe</b>            | Antennessa (SN:SN_1109_EP_100)          |
| <b>Phantom</b>          | Antennessa (SN:SN41_05_SAM29)           |
| <b>Liquid</b>           | Antennessa                              |

## C. SAR Measurement Results

|   |            |
|---|------------|
| <b>Frequency (MHz)</b>                        | 824.203202 |
| <b>Relative permittivity (real part)</b>      | 41.402301  |
| <b>Relative permittivity (imaginary part)</b> | 19.510233  |
| <b>Conductivity (S/m)</b>                     | 0.911232   |
| <b>Variation (%)</b>                          | -0.110000  |



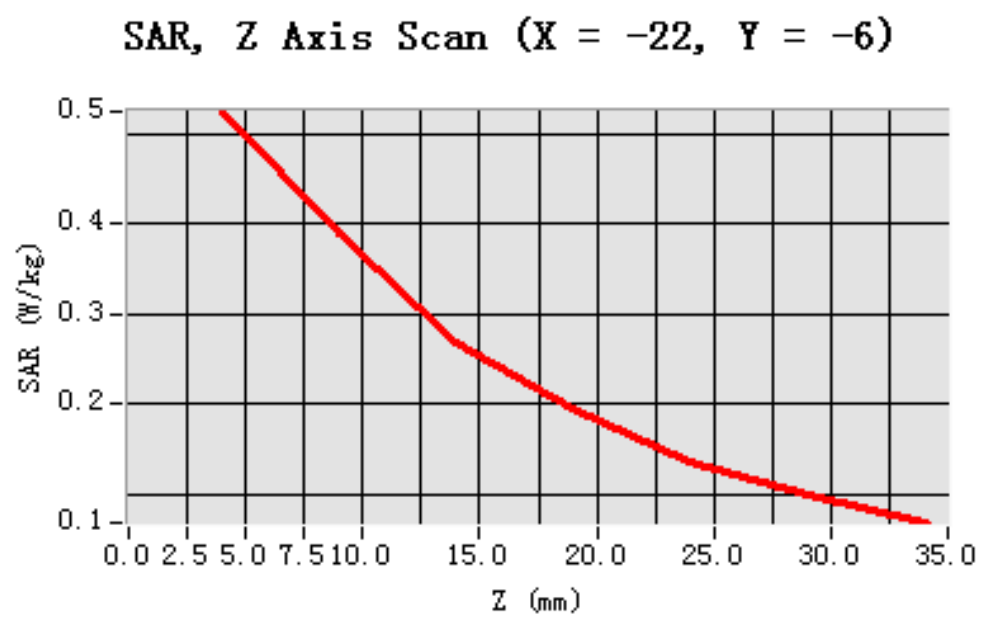
---

**Maximum location: X=-22.00, Y=-6.00**

|                      |          |
|----------------------|----------|
| <b>SAR 1g (W/Kg)</b> | 0.450232 |
|----------------------|----------|

---

## Z Axis Scan



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## MEASUREMENT 11

Type: Phone measurement (Complete)

Date of measurement: 13/5/2010

Measurement duration: 19 minutes 49 seconds

Mobile Phone IMEI number: --

### **A. Experimental conditions.**

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

### **B. Instrumentations.**

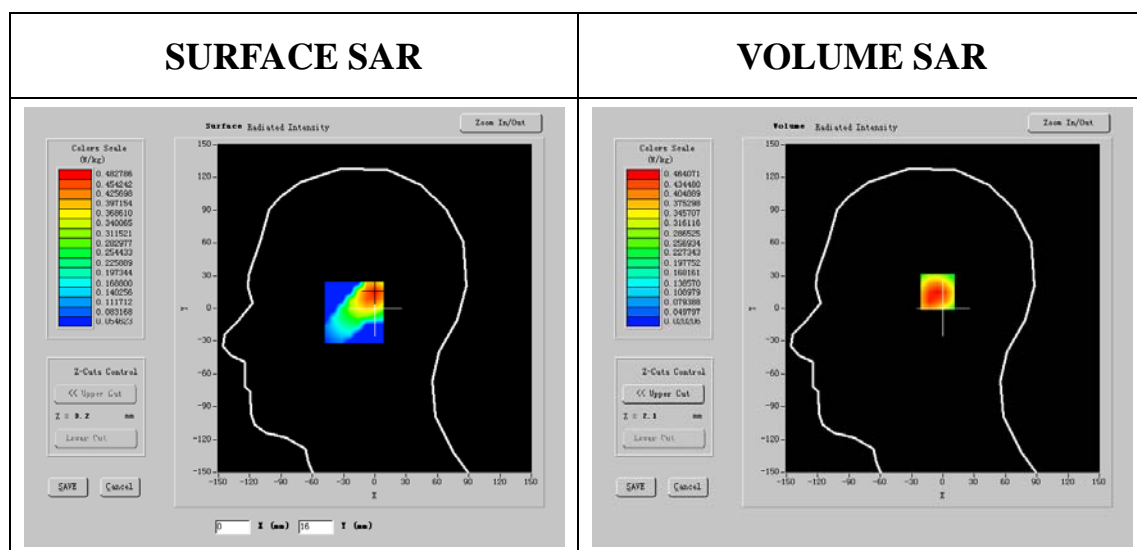


---

|                         |   |
|-------------------------|---|
| <b>PC</b>               | HP (Pentium(R) V3.06GHz, SN:375052-AA1) |
| <b>Network Emulator</b> | R&S (CMU200, SN:B23-03291)              |
| <b>Voltmeter</b>        | Keithley (2000, SN:1015843)             |
| <b>Synthesizer</b>      | Agilent (E8257C, SN:MY43321570)         |
| <b>Amplifier</b>        | Mini-Circuits (ZHL-42, SN:110405)       |
| <b>Power Meter</b>      | Agilent (E4416A, SN:QB41292714)         |
| <b>Probe</b>            | Antennessa (SN:SN_1109_EP_100)          |
| <b>Phantom</b>          | Antennessa (SN:SN41_05_SAM29)           |
| <b>Liquid</b>           | Antennessa                              |

## C. SAR Measurement Results

|   |            |
|---|------------|
| <b>Frequency (MHz)</b>                        | 836.602124 |
| <b>Relative permittivity (real part)</b>      | 41.456030  |
| <b>Relative permittivity (imaginary part)</b> | 19.540005  |
| <b>Conductivity (S/m)</b>                     | 0.902302   |
| <b>Variation (%)</b>                          | -0.120000  |



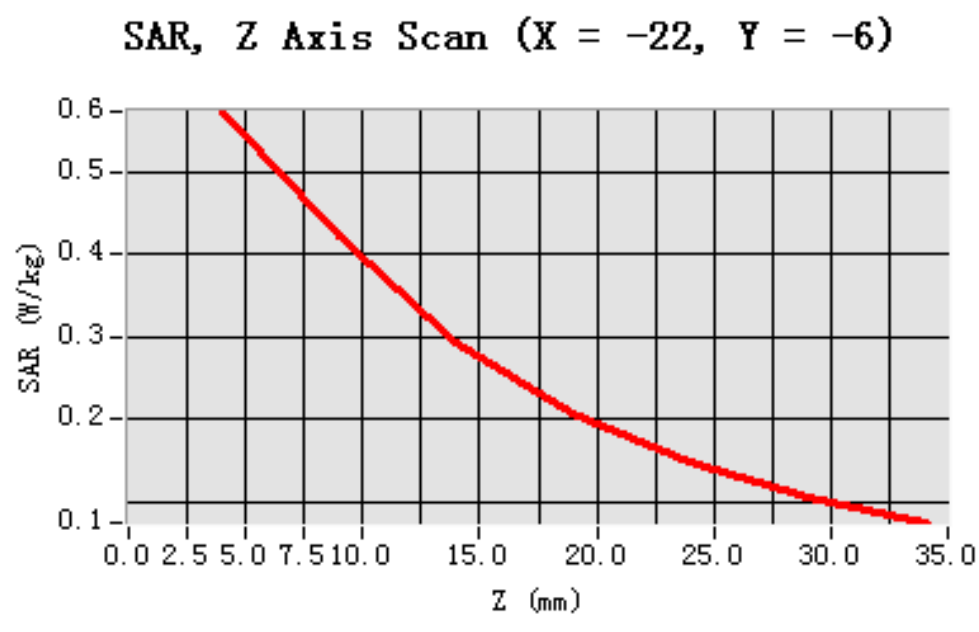
---

**Maximum location: X=-22.00, Y=-6.00**

|                      |          |
|----------------------|----------|
| <b>SAR 1g (W/Kg)</b> | 0.500321 |
|----------------------|----------|

---

## Z Axis Scan



---

## MEASUREMENT 12

Type: Phone measurement (Complete)

Date of measurement: 13/5/2010

Measurement duration: 19 minutes 49 seconds

Mobile Phone IMEI number: --

### **A. Experimental conditions.**

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

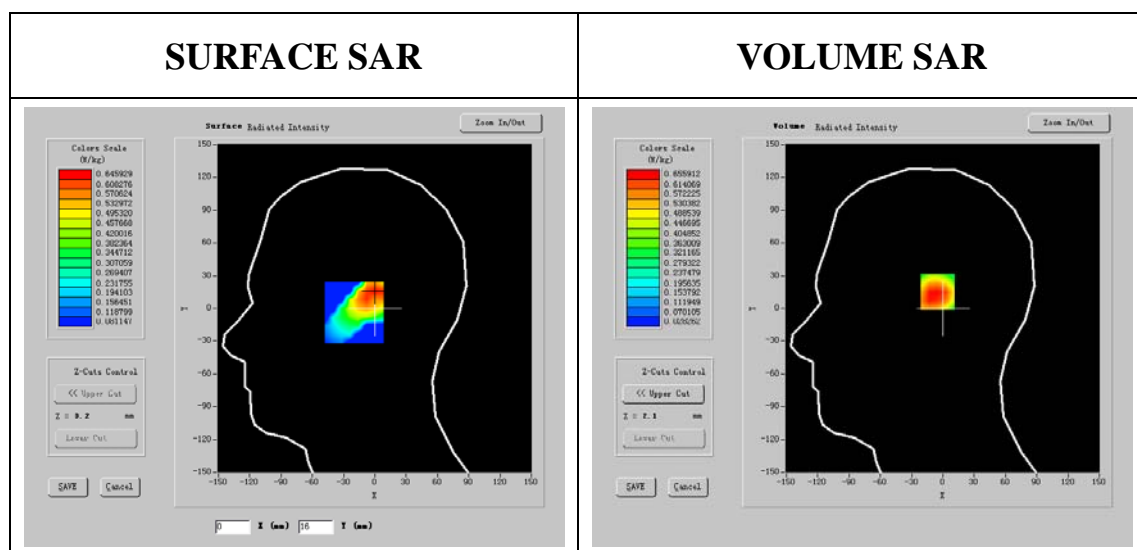
### **B. Instrumentations.**

---

|                         |   |
|-------------------------|---|
| <b>PC</b>               | HP (Pentium(R) V3.06GHz, SN:375052-AA1) |
| <b>Network Emulator</b> | R&S (CMU200, SN:B23-03291)              |
| <b>Voltmeter</b>        | Keithley (2000, SN:1015843)             |
| <b>Synthesizer</b>      | Agilent (E8257C, SN:MY43321570)         |
| <b>Amplifier</b>        | Mini-Circuits (ZHL-42, SN:110405)       |
| <b>Power Meter</b>      | Agilent (E4416A, SN:QB41292714)         |
| <b>Probe</b>            | Antennessa (SN:SN_1109_EP_100)          |
| <b>Phantom</b>          | Antennessa (SN:SN41_05_SAM29)           |
| <b>Liquid</b>           | Antennessa                              |

## C. SAR Measurement Results

|   |            |
|---|------------|
| <b>Frequency (MHz)</b>                        | 848.790120 |
| <b>Relative permittivity (real part)</b>      | 41.432136  |
| <b>Relative permittivity (imaginary part)</b> | 19.530140  |
| <b>Conductivity (S/m)</b>                     | 0.910306   |
| <b>Variation (%)</b>                          | -1.200000  |



---

**Maximum location: X=-22.00, Y=-6.00**

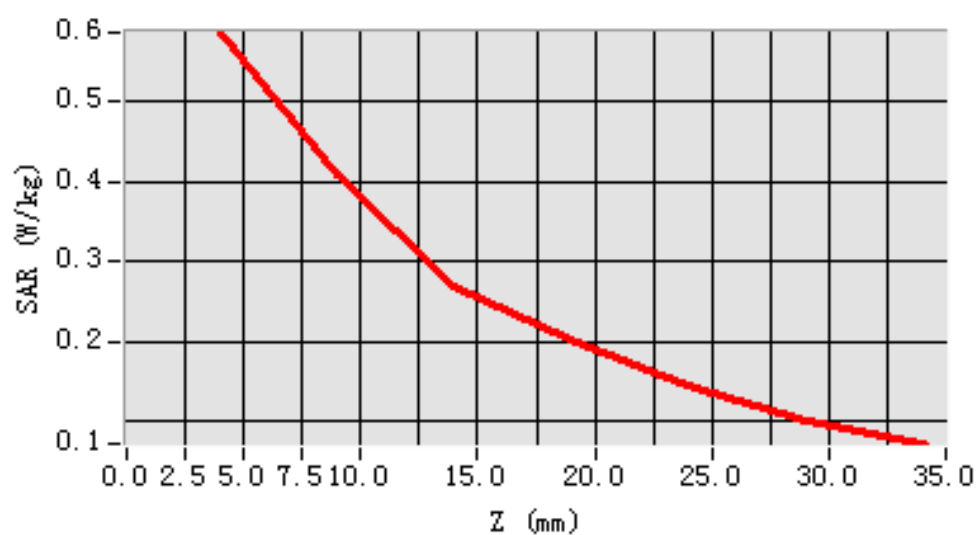
|                      |          |
|----------------------|----------|
| <b>SAR 1g (W/Kg)</b> | 0.533218 |
|----------------------|----------|



---

## Z Axis Scan

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



---

## Face up with earphone

### MEASUREMENT 1

Type: Phone measurement (Complete)

Date of measurement: 13/5/2010

Measurement duration: 14 minutes 29 seconds

Mobile Phone IMEI number:

#### **A. Experimental conditions.**

|                        |                                     |
|------------------------|-------------------------------------|
| <b>Phantom File</b>    | surf_sam_plan.txt, Adaptative 2 max |
| <b>Phantom</b>         | Validation plane                    |
| <b>Device Position</b> | Body                                |
| <b>Band</b>            | GSM850                              |
| <b>Channels</b>        | Low                                 |
| <b>Signal</b>          | GSM                                 |

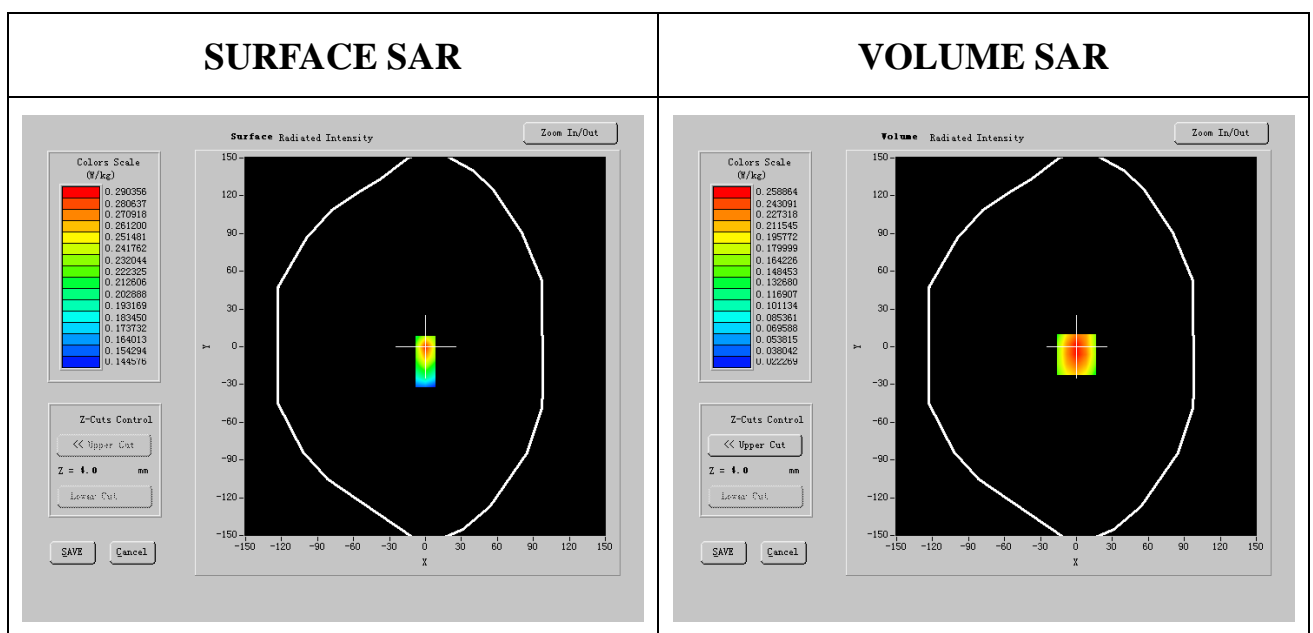
#### **B. Instrumentations.**

---

|                         |  |
|-------------------------|--|
| <b>PC</b>               | HP (Pentium(R) V 3.06GHz, SN:375052-AA1) |
| <b>Network Emulator</b> | R&S (CMU200, SN:B23-03291)               |
| <b>Voltmeter</b>        | Keithley (2000, SN:1015843)              |
| <b>Synthesizer</b>      | Agilent (E8257C, SN:MY43321570)          |
| <b>Amplifier</b>        | Mini-Circuits (ZHL-42, SN:110405)        |
| <b>Power Meter</b>      | Agilent (E4416A, SN:QB41292714)          |
| <b>Probe</b>            | Antennessa (SN:SN_1109_EP_100)           |
| <b>Phantom</b>          | Antennessa (SN:SN41_05_SAM29)            |
| <b>Liquid</b>           | Antennessa                               |

## C. SAR Measurement Results

|   |            |
|---|------------|
| <b>Frequency (MHz)</b>                        | 824.200002 |
| <b>Relative permittivity (real part)</b>      | 55.530120  |
| <b>Relative permittivity (imaginary part)</b> | 21.241030  |
| <b>Conductivity (S/m)</b>                     | 0.935209   |
| <b>Variation (%)</b>                          | -1.100000  |



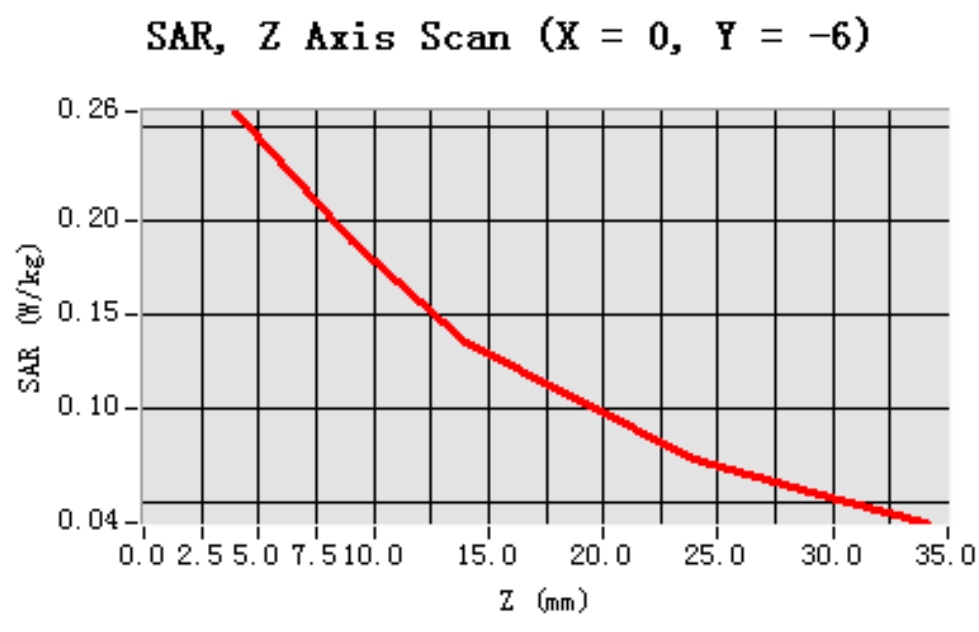
---

**Maximum location: X=0.00, Y=-6.00**

|                      |          |
|----------------------|----------|
| <b>SAR 1g (W/Kg)</b> | 0.302611 |
|----------------------|----------|

---

### Z Axis Scan



---

## MEASUREMENT 2

Type: Phone measurement (Complete)

Date of measurement: 13/5/2010

Measurement duration: 14 minutes 29 seconds

Mobile Phone IMEI number:

### **A. Experimental conditions.**

|                        |                                   |
|------------------------|-----------------------------------|
| <b>Phantom File</b>    | surf_sam_plan.txt, Adaptive 2 max |
| <b>Phantom</b>         | Validation plane                  |
| <b>Device Position</b> | Body                              |
| <b>Band</b>            | GSM850                            |
| <b>Channels</b>        | Middle                            |
| <b>Signal</b>          | GSM                               |

---

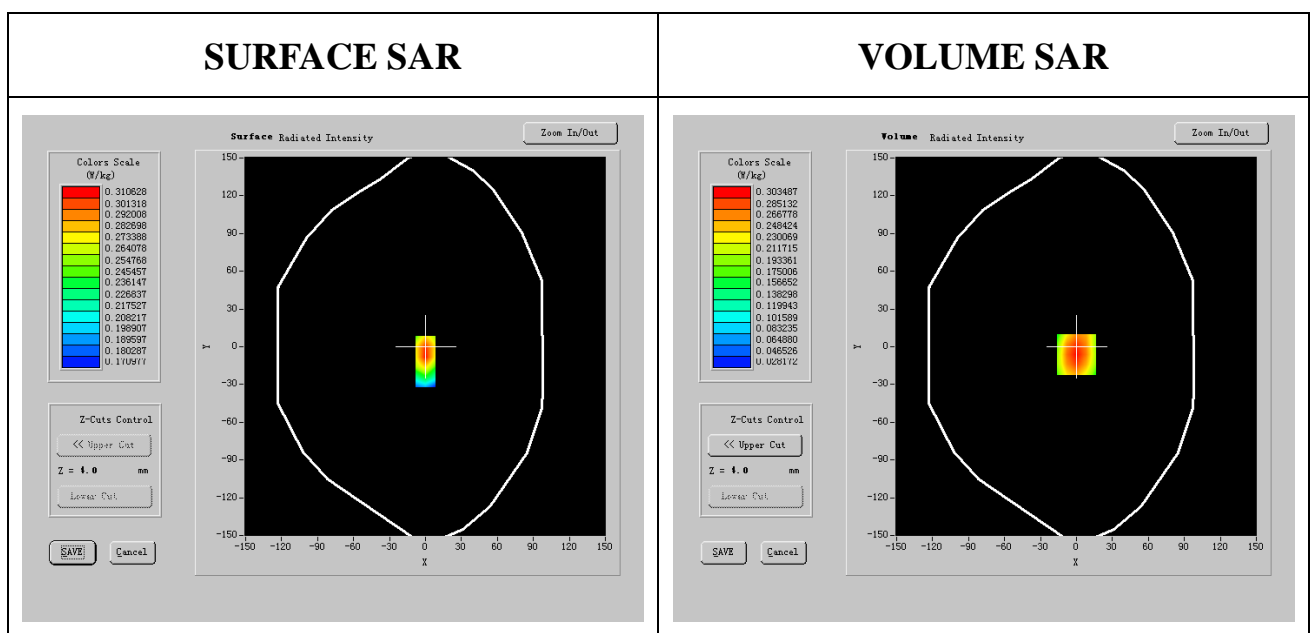
## **B. Instrumentations.**

|                         |  |
|-------------------------|--|
| <b>PC</b>               | HP (Pentium(R) V 3.06GHz, SN:375052-AA1) |
| <b>Network Emulator</b> | R&S (CMU200, SN:B23-03291)               |
| <b>Voltmeter</b>        | Keithley (2000, SN:1015843)              |
| <b>Synthetizer</b>      | Agilent (E8257C, SN:MY43321570)          |
| <b>Amplifier</b>        | Mini-Circuits (ZHL-42, SN:110405)        |
| <b>Power Meter</b>      | Agilent (E4416A, SN:QB41292714)          |
| <b>Probe</b>            | Antennessa (SN:SN_1109_EP_100)           |
| <b>Phantom</b>          | Antennessa (SN:SN41_05_SAM29)            |
| <b>Liquid</b>           | Antennessa                               |



## C. SAR Measurement Results

|   |            |
|---|------------|
| <b>Frequency (MHz)</b>                        | 836.600204 |
| <b>Relative permittivity (real part)</b>      | 55.523010  |
| <b>Relative permittivity (imaginary part)</b> | 21.833210  |
| <b>Conductivity (S/m)</b>                     | 0.923925   |
| <b>Variation (%)</b>                          | -1.100000  |



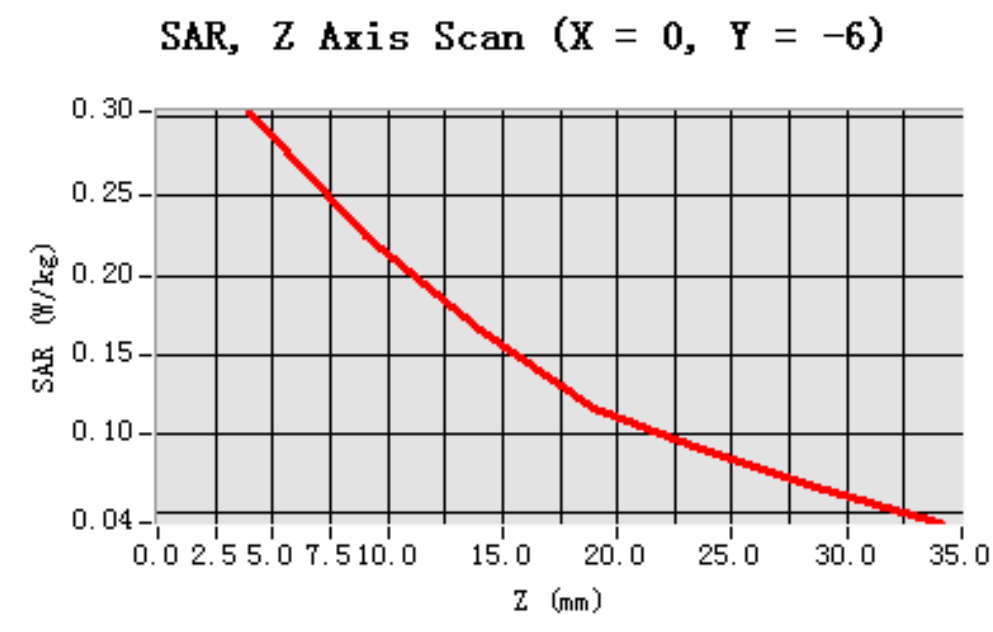
---

**Maximum location: X=0.00, Y=-6.00**

|                      |          |
|----------------------|----------|
| <b>SAR 1g (W/Kg)</b> | 0.259289 |
|----------------------|----------|

---

### Z Axis Scan



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## MEASUREMENT 3

Type: Phone measurement (Complete)

Date of measurement: 13/5/2010

Measurement duration: 14 minutes 29 seconds

Mobile Phone IMEI number:

### **A. Experimental conditions.**

|                        |                                   |
|------------------------|-----------------------------------|
| <b>Phantom File</b>    | surf_sam_plan.txt, Adaptive 2 max |
| <b>Phantom</b>         | Validation plane                  |
| <b>Device Position</b> | Body                              |
| <b>Band</b>            | GSM850                            |
| <b>Channels</b>        | High                              |
| <b>Signal</b>          | GSM                               |

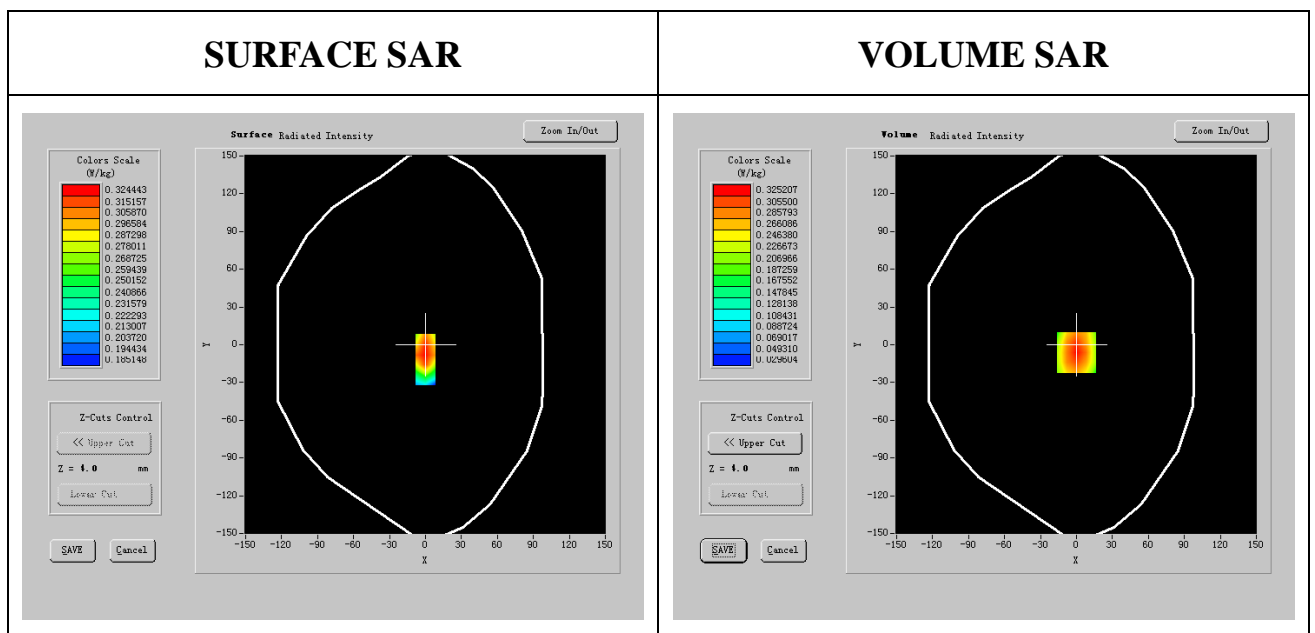
### **B. Instrumentations.**

---

|                         |  |
|-------------------------|--|
| <b>PC</b>               | HP (Pentium(R) V 3.06GHz, SN:375052-AA1) |
| <b>Network Emulator</b> | R&S (CMU200, SN:B23-03291)               |
| <b>Voltmeter</b>        | Keithley (2000, SN:1015843)              |
| <b>Synthesizer</b>      | Agilent (E8257C, SN:MY43321570)          |
| <b>Amplifier</b>        | Mini-Circuits (ZHL-42, SN:110405)        |
| <b>Power Meter</b>      | Agilent (E4416A, SN:QB41292714)          |
| <b>Probe</b>            | Antennessa (SN:SN_1109_EP_100)           |
| <b>Phantom</b>          | Antennessa (SN:SN41_05_SAM29)            |
| <b>Liquid</b>           | Antennessa                               |

## C. SAR Measurement Results

|   |            |
|---|------------|
| <b>Frequency (MHz)</b>                        | 848.862406 |
| <b>Relative permittivity (real part)</b>      | 55.522300  |
| <b>Relative permittivity (imaginary part)</b> | 21.712301  |
| <b>Conductivity (S/m)</b>                     | 0.963200   |
| <b>Variation (%)</b>                          | -1.310000  |



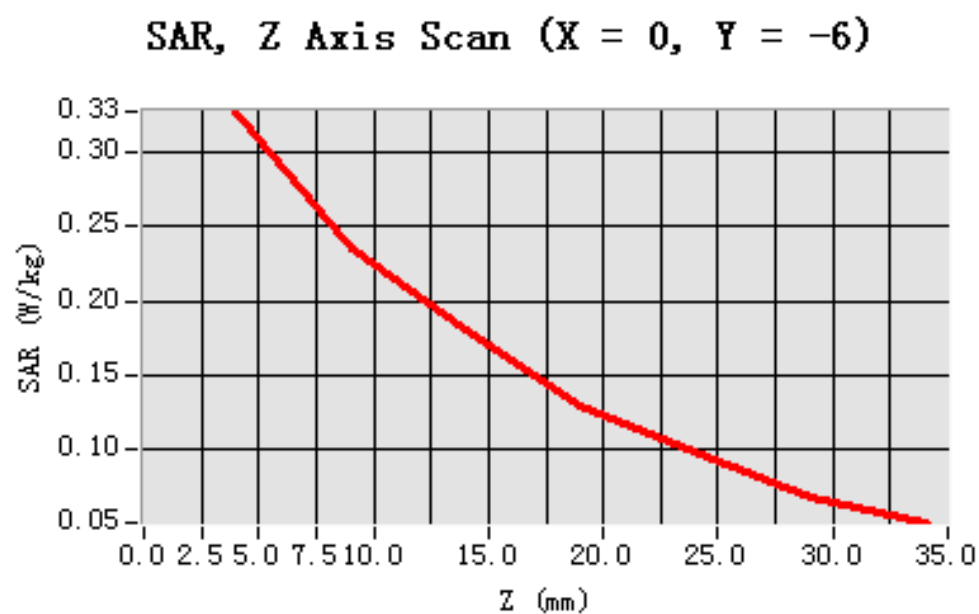
---

**Maximum location: X=0.00, Y=-6.00**

|                      |          |
|----------------------|----------|
| <b>SAR 1g (W/Kg)</b> | 0.355239 |
|----------------------|----------|

---

## Z Axis Scan





---

# Face down with earphone

## MEASUREMENT 1

Type: Phone measurement (Complete)

Date of measurement: 13/5/2010

Measurement duration: 14 minutes 29 seconds

Mobile Phone IMEI number:

### **A. Experimental conditions.**

|                        |                                   |
|------------------------|-----------------------------------|
| <b>Phantom File</b>    | surf_sam_plan.txt, Adaptive 2 max |
| <b>Phantom</b>         | Validation plane                  |
| <b>Device Position</b> | Body                              |
| <b>Band</b>            | GSM850                            |
| <b>Channels</b>        | Low                               |
| <b>Signal</b>          | GSM                               |

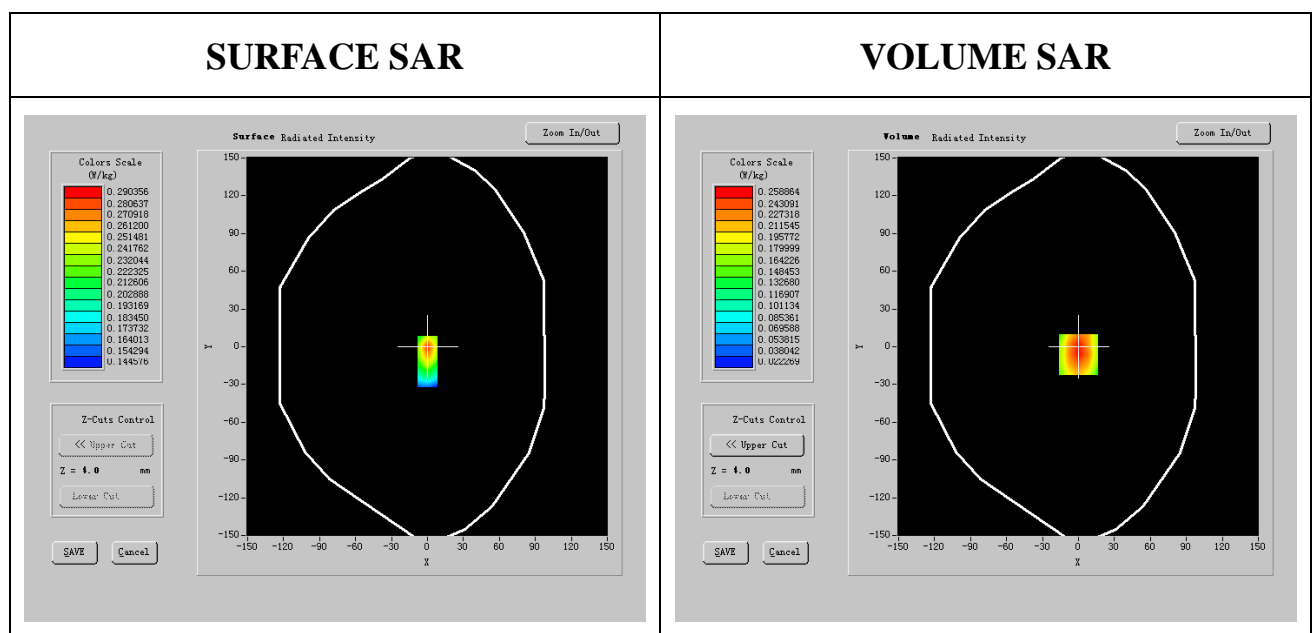
### **B. Instrumentations.**

---

|                         |  |
|-------------------------|--|
| <b>PC</b>               | HP (Pentium(R) V 3.06GHz, SN:375052-AA1) |
| <b>Network Emulator</b> | R&S (CMU200, SN:B23-03291)               |
| <b>Voltmeter</b>        | Keithley (2000, SN:1015843)              |
| <b>Synthesizer</b>      | Agilent (E8257C, SN:MY43321570)          |
| <b>Amplifier</b>        | Mini-Circuits (ZHL-42, SN:110405)        |
| <b>Power Meter</b>      | Agilent (E4416A, SN:QB41292714)          |
| <b>Probe</b>            | Antennessa (SN:SN_1109_EP_100)           |
| <b>Phantom</b>          | Antennessa (SN:SN41_05_SAM29)            |
| <b>Liquid</b>           | Antennessa                               |

## C. SAR Measurement Results

|   |            |
|---|------------|
| <b>Frequency (MHz)</b>                        | 824.200012 |
| <b>Relative permittivity (real part)</b>      | 55.584000  |
| <b>Relative permittivity (imaginary part)</b> | 21.654150  |
| <b>Conductivity (S/m)</b>                     | 0.951519   |
| <b>Variation (%)</b>                          | -1.120000  |



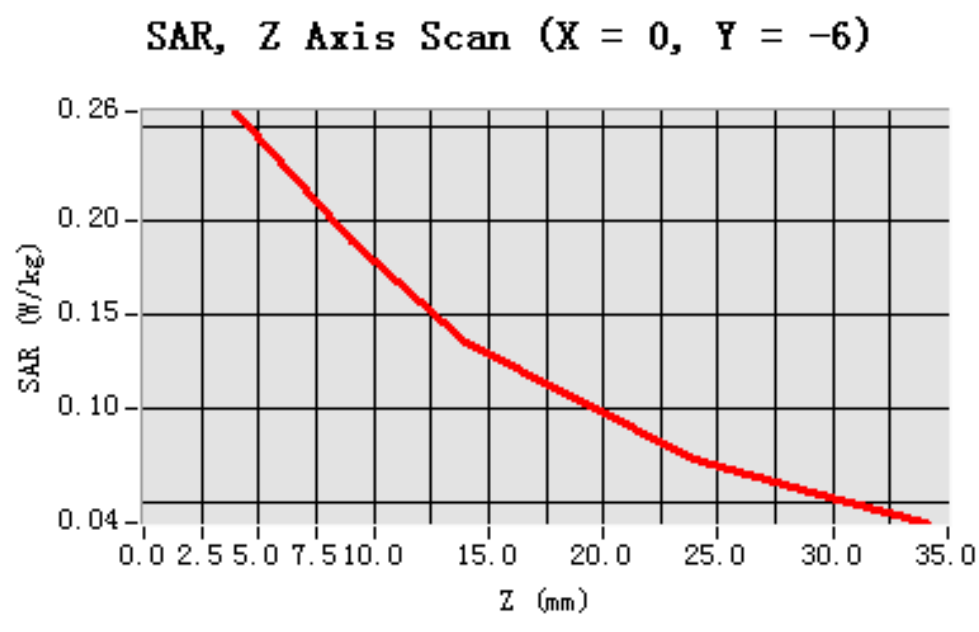
---

**Maximum location: X=0.00, Y=-6.00**

|                      |          |
|----------------------|----------|
| <b>SAR 1g (W/Kg)</b> | 0.256148 |
|----------------------|----------|

---

### Z Axis Scan



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## MEASUREMENT 2

Type: Phone measurement (Complete)

Date of measurement: 13/5/2010

Measurement duration: 14 minutes 29 seconds

Mobile Phone IMEI number:

### **A. Experimental conditions.**

|                        |                                   |
|------------------------|-----------------------------------|
| <b>Phantom File</b>    | surf_sam_plan.txt, Adaptive 2 max |
| <b>Phantom</b>         | Validation plane                  |
| <b>Device Position</b> | Body                              |
| <b>Band</b>            | GSM850                            |
| <b>Channels</b>        | Middle                            |
| <b>Signal</b>          | GSM                               |

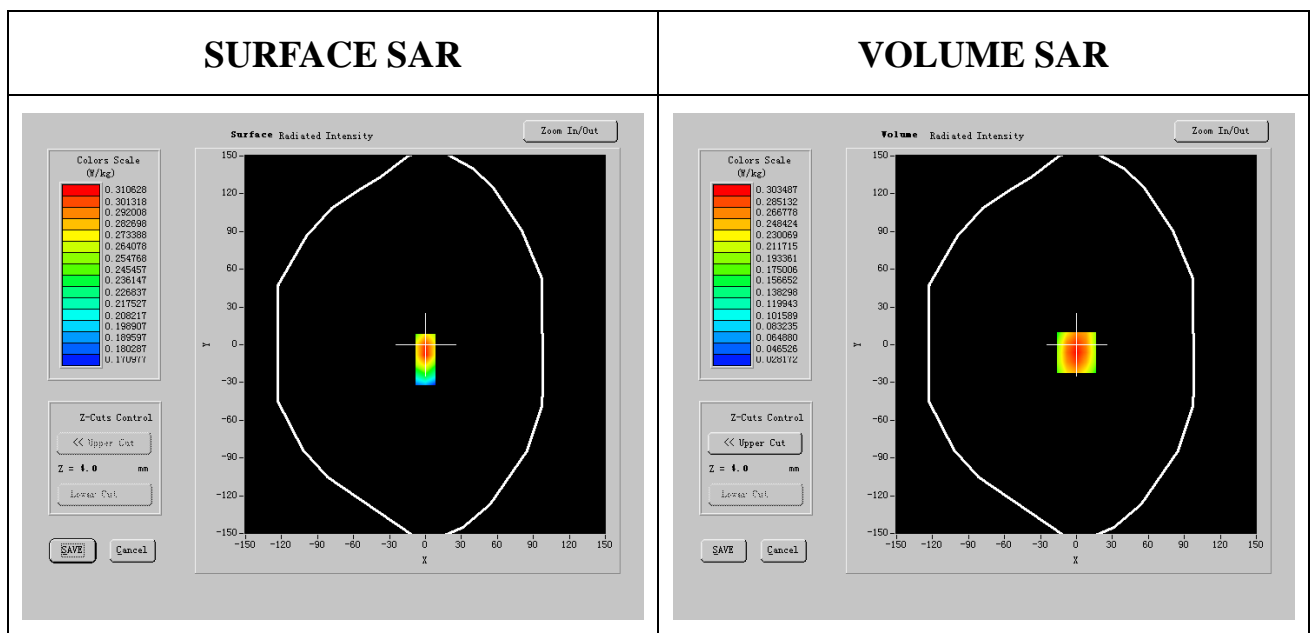
---

## **B. Instrumentations.**

|                         |  |
|-------------------------|--|
| <b>PC</b>               | HP (Pentium(R) V 3.06GHz, SN:375052-AA1) |
| <b>Network Emulator</b> | R&S (CMU200, SN:B23-03291)               |
| <b>Voltmeter</b>        | Keithley (2000, SN:1015843)              |
| <b>Synthesizer</b>      | Agilent (E8257C, SN:MY43321570)          |
| <b>Amplifier</b>        | Mini-Circuits (ZHL-42, SN:110405)        |
| <b>Power Meter</b>      | Agilent (E4416A, SN:QB41292714)          |
| <b>Probe</b>            | Antennessa (SN:SN_1109_EP_100)           |
| <b>Phantom</b>          | Antennessa (SN:SN41_05_SAM29)            |
| <b>Liquid</b>           | Antennessa                               |

## C. SAR Measurement Results

|   |            |
|---|------------|
| <b>Frequency (MHz)</b>                        | 836.400024 |
| <b>Relative permittivity (real part)</b>      | 55.501999  |
| <b>Relative permittivity (imaginary part)</b> | 21.866249  |
| <b>Conductivity (S/m)</b>                     | 0.966052   |
| <b>Variation (%)</b>                          | -0.120000  |





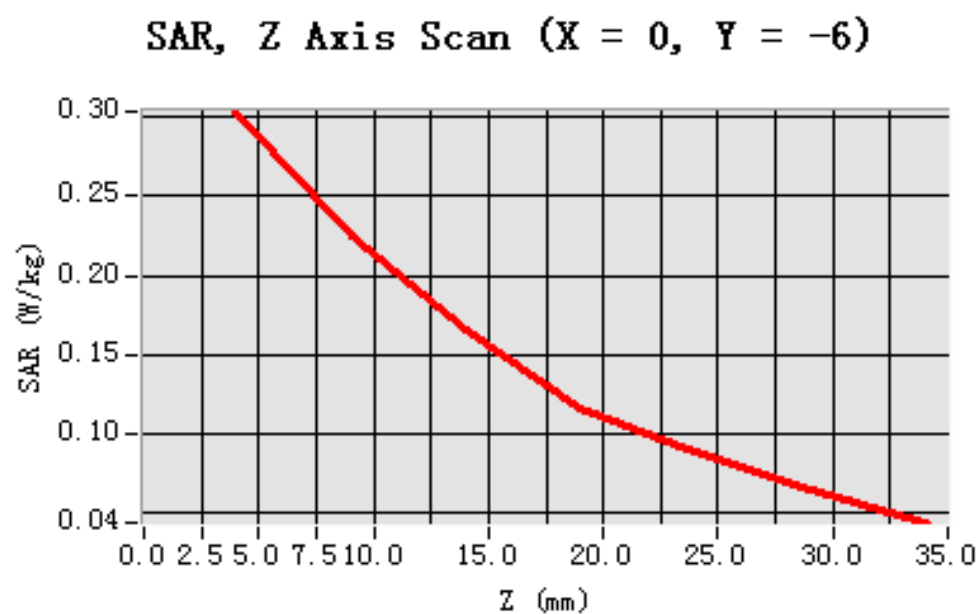
---

**Maximum location: X=0.00, Y=-6.00**

|                      |          |
|----------------------|----------|
| <b>SAR 1g (W/Kg)</b> | 0.267161 |
|----------------------|----------|

---

## Z Axis Scan



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## MEASUREMENT 3

Type: Phone measurement (Complete)

Date of measurement: 13/5/2010

Measurement duration: 14 minutes 29 seconds

Mobile Phone IMEI number:

### **A. Experimental conditions.**

|                        |                                     |
|------------------------|-------------------------------------|
| <b>Phantom File</b>    | surf_sam_plan.txt, Adaptative 2 max |
| <b>Phantom</b>         | Validation plane                    |
| <b>Device Position</b> | Body                                |
| <b>Band</b>            | GSM850                              |
| <b>Channels</b>        | High                                |
| <b>Signal</b>          | GSM                                 |

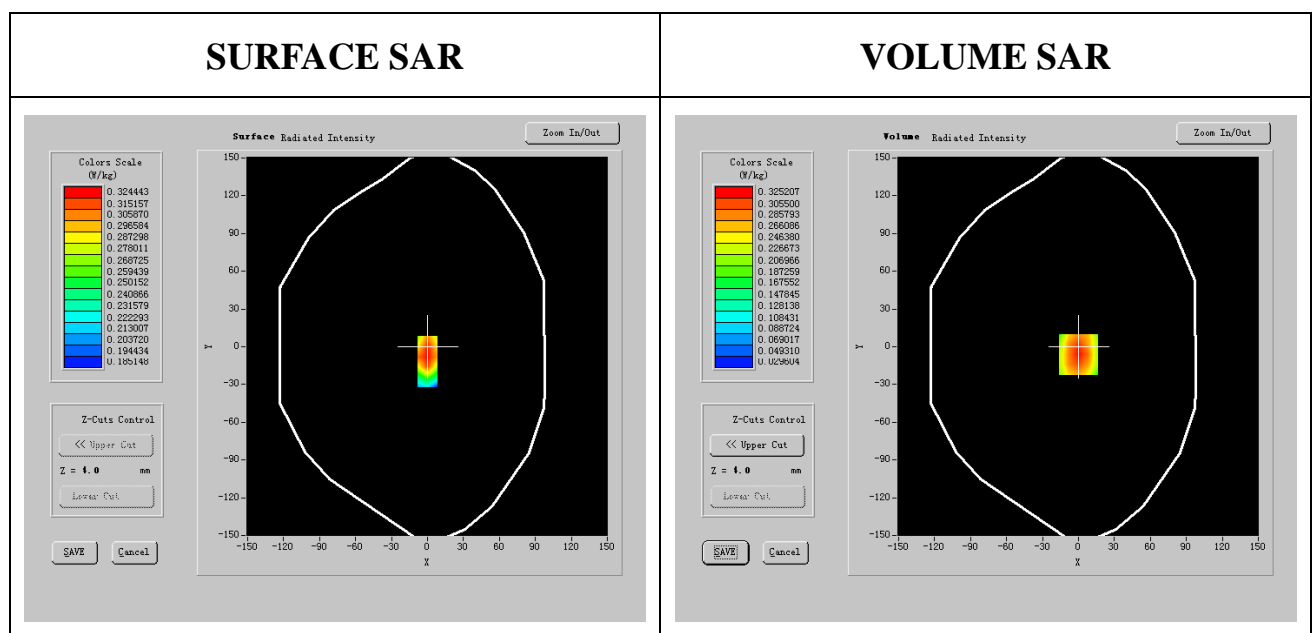
### **B. Instrumentations.**

---

|                         |  |
|-------------------------|--|
| <b>PC</b>               | HP (Pentium(R) V 3.06GHz, SN:375052-AA1) |
| <b>Network Emulator</b> | R&S (CMU200, SN:B23-03291)               |
| <b>Voltmeter</b>        | Keithley (2000, SN:1015843)              |
| <b>Synthesizer</b>      | Agilent (E8257C, SN:MY43321570)          |
| <b>Amplifier</b>        | Mini-Circuits (ZHL-42, SN:110405)        |
| <b>Power Meter</b>      | Agilent (E4416A, SN:QB41292714)          |
| <b>Probe</b>            | Antennessa (SN:SN_1109_EP_100)           |
| <b>Phantom</b>          | Antennessa (SN:SN41_05_SAM29)            |
| <b>Liquid</b>           | Antennessa                               |

## C. SAR Measurement Results

|   |            |
|---|------------|
| <b>Frequency (MHz)</b>                        | 848.599976 |
| <b>Relative permittivity (real part)</b>      | 55.576000  |
| <b>Relative permittivity (imaginary part)</b> | 21.726601  |
| <b>Conductivity (S/m)</b>                     | 0.964288   |
| <b>Variation (%)</b>                          | -1.120000  |



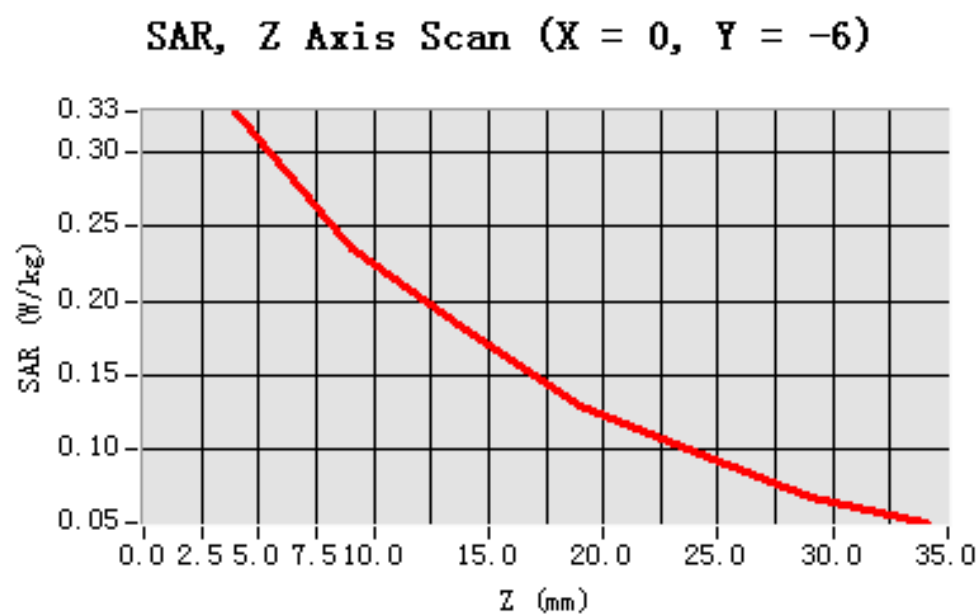
---

**Maximum location: X=0.00, Y=-6.00**

|                      |          |
|----------------------|----------|
| <b>SAR 1g (W/Kg)</b> | 0.311212 |
|----------------------|----------|

---

## Z Axis Scan



---

# Face up without earphone

## MEASUREMENT 1

Type: Phone measurement (Complete)

Date of measurement: 13/5/2010

Measurement duration: 14 minutes 29 seconds

Mobile Phone IMEI number:

### **A. Experimental conditions.**

|                        |                                     |
|------------------------|-------------------------------------|
| <b>Phantom File</b>    | surf_sam_plan.txt, Adaptative 2 max |
| <b>Phantom</b>         | Validation plane                    |
| <b>Device Position</b> | Body                                |
| <b>Band</b>            | GSM850                              |
| <b>Channels</b>        | Low                                 |
| <b>Signal</b>          | GSM                                 |

### **B. Instrumentations.**

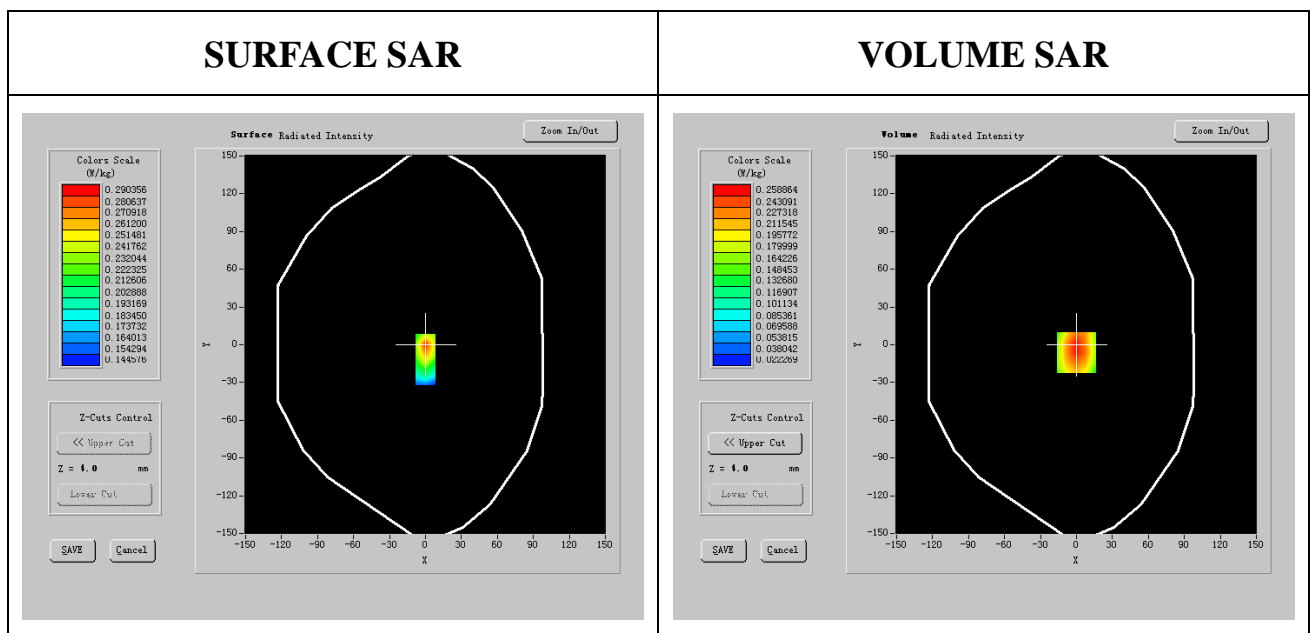


---

|                         |  |
|-------------------------|--|
| <b>PC</b>               | HP (Pentium(R) V 3.06GHz, SN:375052-AA1) |
| <b>Network Emulator</b> | R&S (CMU200, SN:B23-03291)               |
| <b>Voltmeter</b>        | Keithley (2000, SN:1015843)              |
| <b>Synthesizer</b>      | Agilent (E8257C, SN:MY43321570)          |
| <b>Amplifier</b>        | Mini-Circuits (ZHL-42, SN:110405)        |
| <b>Power Meter</b>      | Agilent (E4416A, SN:QB41292714)          |
| <b>Probe</b>            | Antennessa (SN:SN_1109_EP_100)           |
| <b>Phantom</b>          | Antennessa (SN:SN41_05_SAM29)            |
| <b>Liquid</b>           | Antennessa                               |

## C. SAR Measurement Results

|   |            |
|---|------------|
| <b>Frequency (MHz)</b>                        | 824.200012 |
| <b>Relative permittivity (real part)</b>      | 55.575230  |
| <b>Relative permittivity (imaginary part)</b> | 21.671350  |
| <b>Conductivity (S/m)</b>                     | 0.952319   |
| <b>Variation (%)</b>                          | -1.000000  |



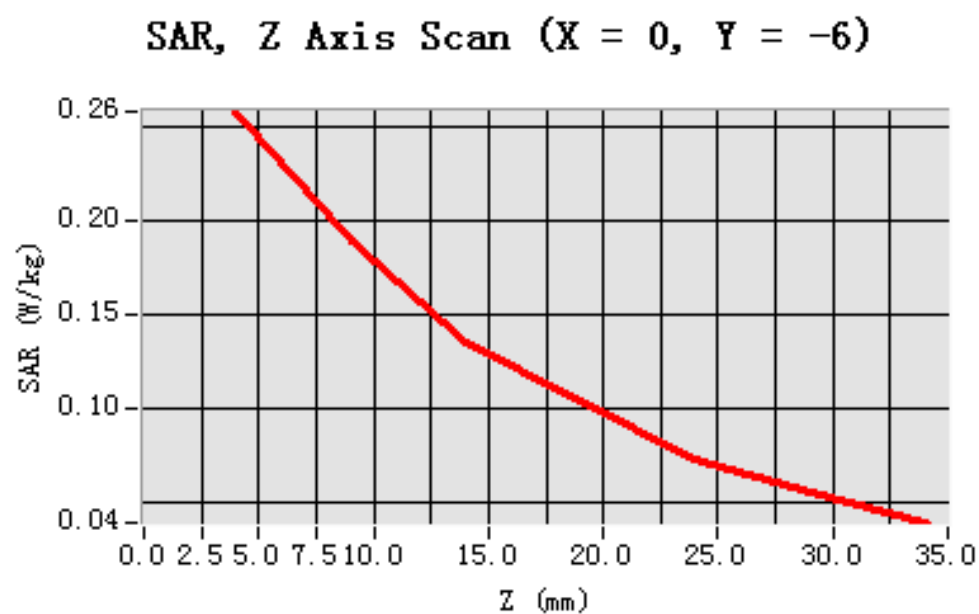
---

**Maximum location: X=0.00, Y=-6.00**

|                      |          |
|----------------------|----------|
| <b>SAR 1g (W/Kg)</b> | 0.253018 |
|----------------------|----------|

---

### Z Axis Scan



---

## MEASUREMENT 2

Type: Phone measurement (Complete)

Date of measurement: 13/5/2010

Measurement duration: 14 minutes 29 seconds

Mobile Phone IMEI number:

### **A. Experimental conditions.**

|                        |                                   |
|------------------------|-----------------------------------|
| <b>Phantom File</b>    | surf_sam_plan.txt, Adaptive 2 max |
| <b>Phantom</b>         | Validation plane                  |
| <b>Device Position</b> | Body                              |
| <b>Band</b>            | GSM850                            |
| <b>Channels</b>        | Middle                            |
| <b>Signal</b>          | GSM                               |

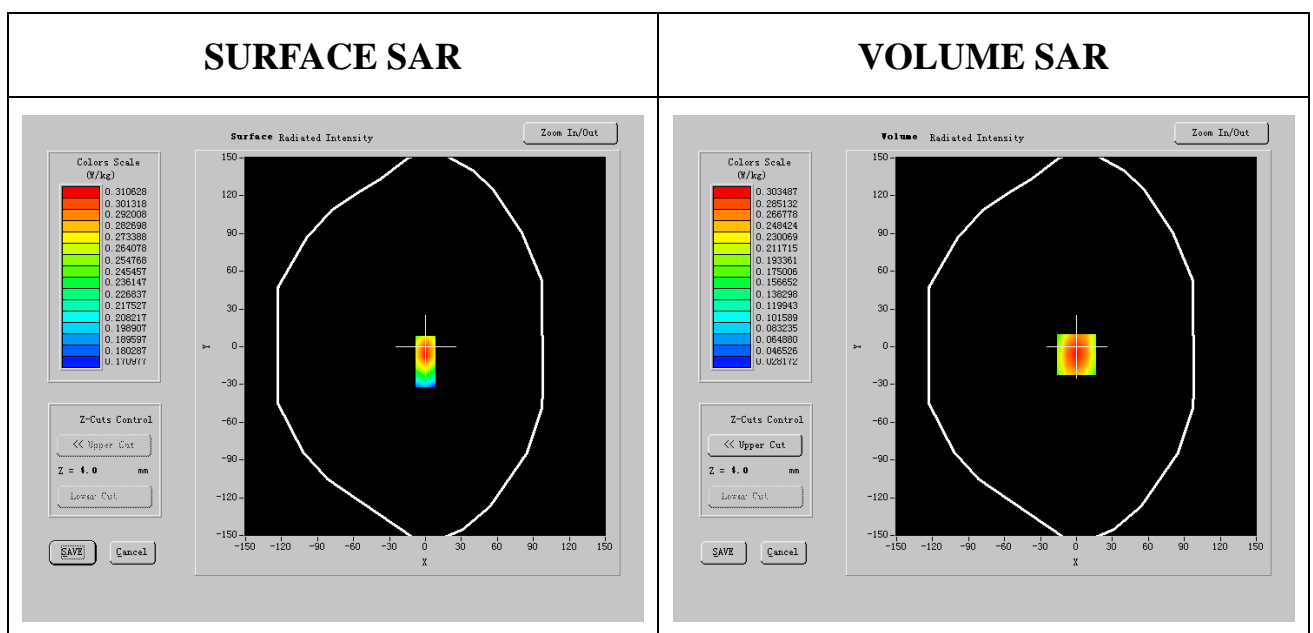
---

## **B. Instrumentations.**

|                         |  |
|-------------------------|--|
| <b>PC</b>               | HP (Pentium(R) V 3.06GHz, SN:375052-AA1) |
| <b>Network Emulator</b> | R&S (CMU200, SN:B23-03291)               |
| <b>Voltmeter</b>        | Keithley (2000, SN:1015843)              |
| <b>Synthesizer</b>      | Agilent (E8257C, SN:MY43321570)          |
| <b>Amplifier</b>        | Mini-Circuits (ZHL-42, SN:110405)        |
| <b>Power Meter</b>      | Agilent (E4416A, SN:QB41292714)          |
| <b>Probe</b>            | Antennessa (SN:SN_1109_EP_100)           |
| <b>Phantom</b>          | Antennessa (SN:SN41_05_SAM29)            |
| <b>Liquid</b>           | Antennessa                               |

## C. SAR Measurement Results

|   |            |
|---|------------|
| <b>Frequency (MHz)</b>                        | 836.400024 |
| <b>Relative permittivity (real part)</b>      | 55.5125209 |
| <b>Relative permittivity (imaginary part)</b> | 21.859639  |
| <b>Conductivity (S/m)</b>                     | 0.961252   |
| <b>Variation (%)</b>                          | -0.100000  |



---

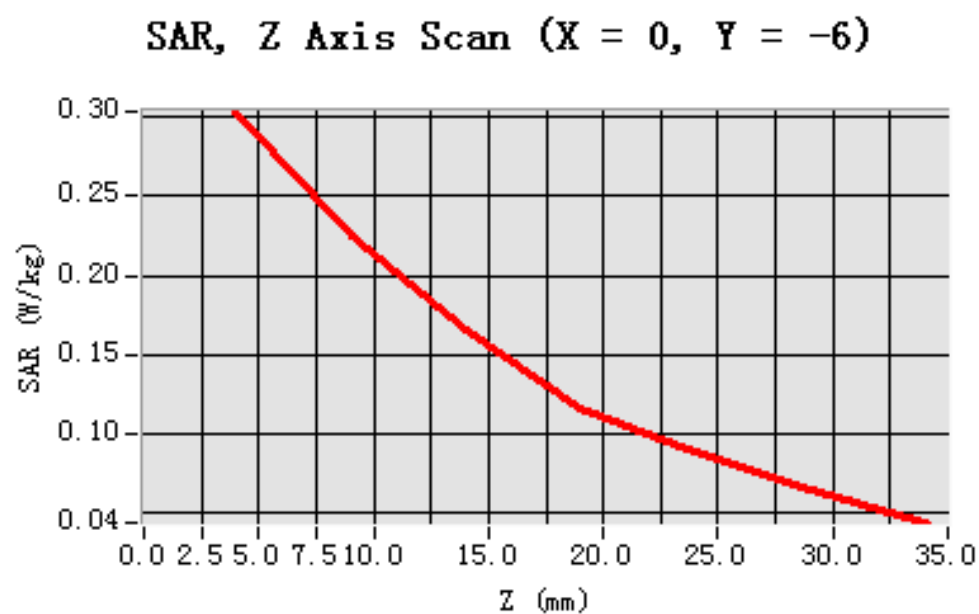
**Maximum location: X=0.00, Y=-6.00**

|                      |          |
|----------------------|----------|
| <b>SAR 1g (W/Kg)</b> | 0.265141 |
|----------------------|----------|



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## Z Axis Scan



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## MEASUREMENT 3

Type: Phone measurement (Complete)

Date of measurement: 13/5/2010

Measurement duration: 14 minutes 29 seconds

Mobile Phone IMEI number:

### **A. Experimental conditions.**

|                        |                                   |
|------------------------|-----------------------------------|
| <b>Phantom File</b>    | surf_sam_plan.txt, Adaptive 2 max |
| <b>Phantom</b>         | Validation plane                  |
| <b>Device Position</b> | Body                              |
| <b>Band</b>            | GSM850                            |
| <b>Channels</b>        | High                              |
| <b>Signal</b>          | GSM                               |

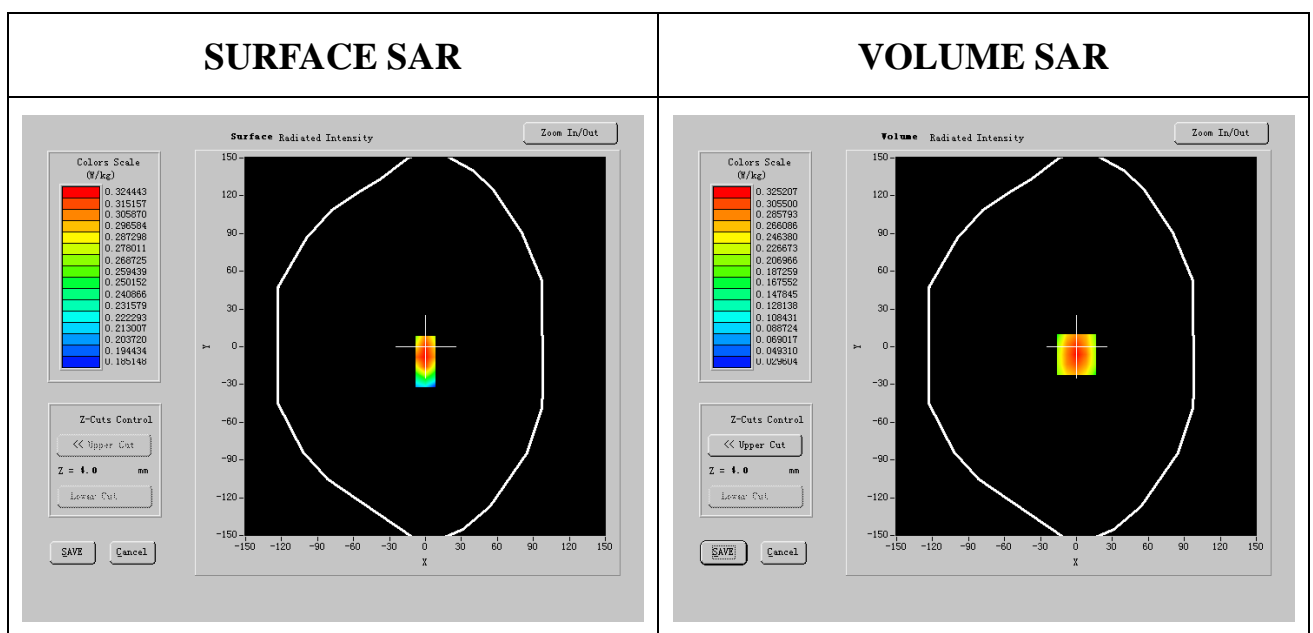
### **B. Instrumentations.**

---

|                         |  |
|-------------------------|--|
| <b>PC</b>               | HP (Pentium(R) V 3.06GHz, SN:375052-AA1) |
| <b>Network Emulator</b> | R&S (CMU200, SN:B23-03291)               |
| <b>Voltmeter</b>        | Keithley (2000, SN:1015843)              |
| <b>Synthesizer</b>      | Agilent (E8257C, SN:MY43321570)          |
| <b>Amplifier</b>        | Mini-Circuits (ZHL-42, SN:110405)        |
| <b>Power Meter</b>      | Agilent (E4416A, SN:QB41292714)          |
| <b>Probe</b>            | Antennessa (SN:SN_1109_EP_100)           |
| <b>Phantom</b>          | Antennessa (SN:SN41_05_SAM29)            |
| <b>Liquid</b>           | Antennessa                               |

## C. SAR Measurement Results

|   |            |
|---|------------|
| <b>Frequency (MHz)</b>                        | 848.599976 |
| <b>Relative permittivity (real part)</b>      | 55.565222  |
| <b>Relative permittivity (imaginary part)</b> | 21.735131  |
| <b>Conductivity (S/m)</b>                     | 0.960258   |
| <b>Variation (%)</b>                          | -1.000000  |



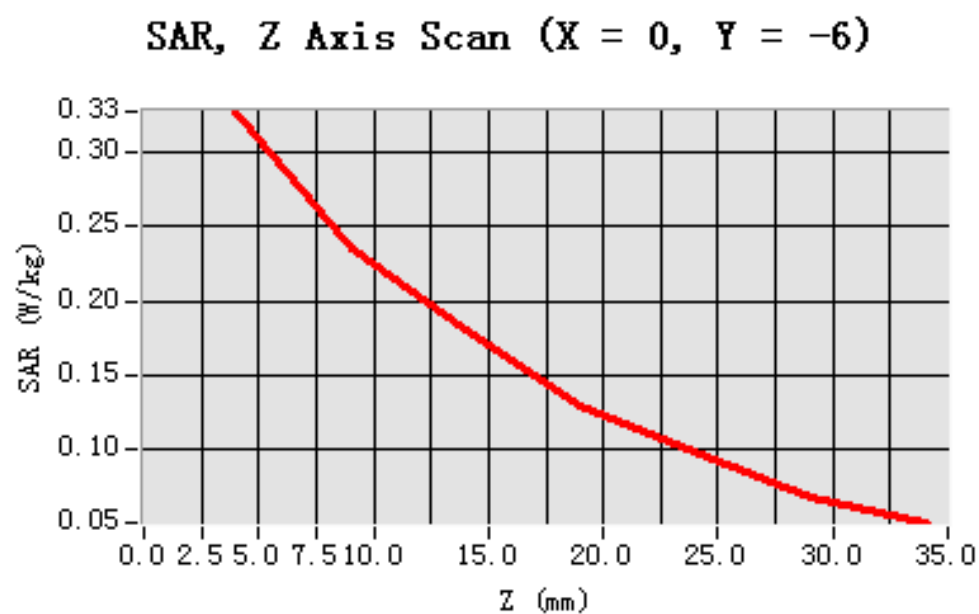
---

**Maximum location: X=0.00, Y=-6.00**

|                      |          |
|----------------------|----------|
| <b>SAR 1g (W/Kg)</b> | 0.310252 |
|----------------------|----------|

---

## Z Axis Scan



---

# Face down without earphone

## MEASUREMENT 1

Type: Phone measurement (Complete)

Date of measurement: 13/5/2010

Measurement duration: 14 minutes 29 seconds

Mobile Phone IMEI number:

### **A. Experimental conditions.**

|                        |                                   |
|------------------------|-----------------------------------|
| <b>Phantom File</b>    | surf_sam_plan.txt, Adaptive 2 max |
| <b>Phantom</b>         | Validation plane                  |
| <b>Device Position</b> | Body                              |
| <b>Band</b>            | GSM850                            |
| <b>Channels</b>        | Low                               |
| <b>Signal</b>          | GSM                               |

### **B. Instrumentations.**

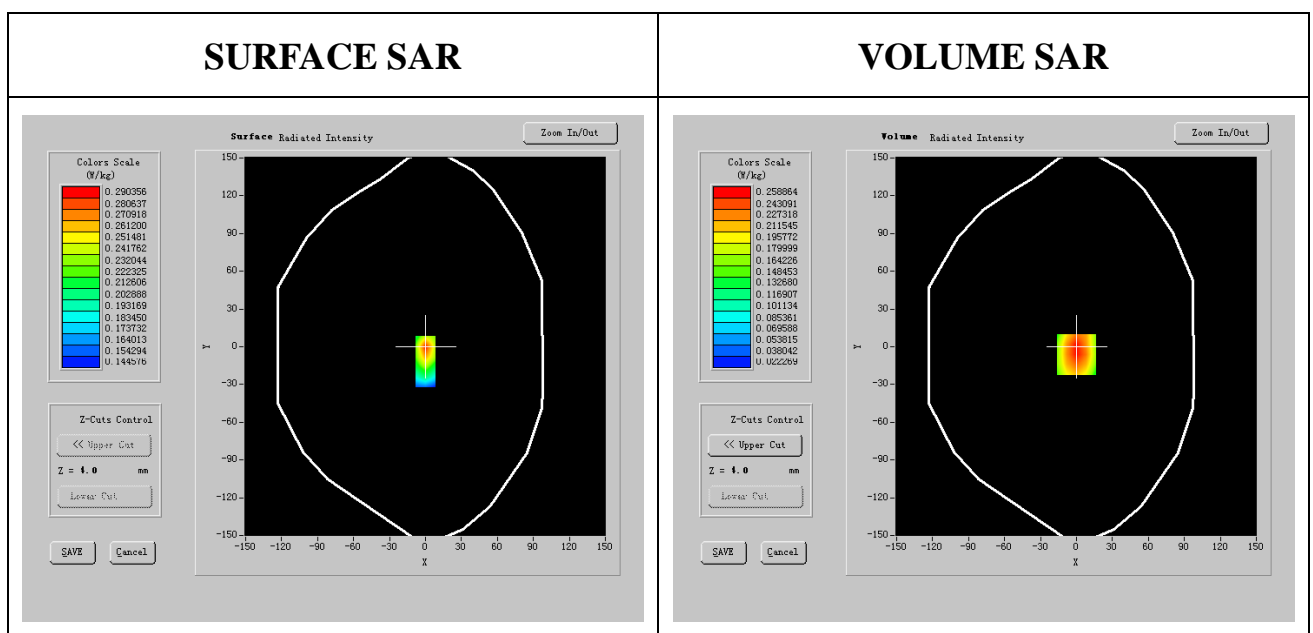
---

|                         |  |
|-------------------------|--|
| <b>PC</b>               | HP (Pentium(R) V 3.06GHz, SN:375052-AA1) |
| <b>Network Emulator</b> | R&S (CMU200, SN:B23-03291)               |
| <b>Voltmeter</b>        | Keithley (2000, SN:1015843)              |
| <b>Synthesizer</b>      | Agilent (E8257C, SN:MY43321570)          |
| <b>Amplifier</b>        | Mini-Circuits (ZHL-42, SN:110405)        |
| <b>Power Meter</b>      | Agilent (E4416A, SN:QB41292714)          |
| <b>Probe</b>            | Antennessa (SN:SN_1109_EP_100)           |
| <b>Phantom</b>          | Antennessa (SN:SN41_05_SAM29)            |
| <b>Liquid</b>           | Antennessa                               |



## C. SAR Measurement Results

|   |            |
|---|------------|
| <b>Frequency (MHz)</b>                        | 824.200012 |
| <b>Relative permittivity (real part)</b>      | 55.592130  |
| <b>Relative permittivity (imaginary part)</b> | 21.659250  |
| <b>Conductivity (S/m)</b>                     | 0.952919   |
| <b>Variation (%)</b>                          | -1.100000  |



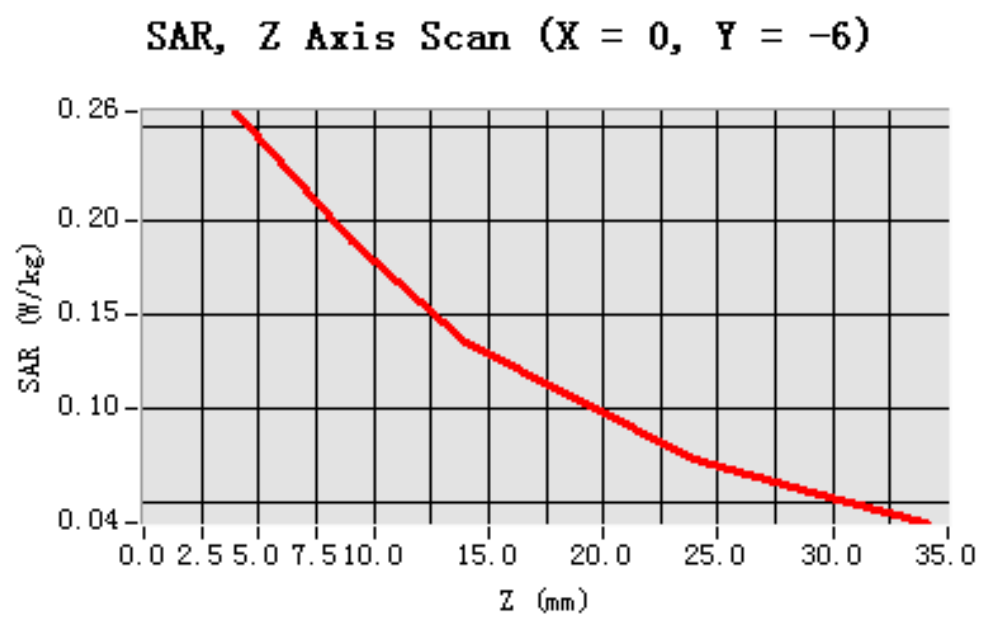
---

**Maximum location: X=0.00, Y=-6.00**

|                      |          |
|----------------------|----------|
| <b>SAR 1g (W/Kg)</b> | 0.258214 |
|----------------------|----------|

---

### Z Axis Scan



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## MEASUREMENT 2

Type: Phone measurement (Complete)

Date of measurement: 13/5/2010

Measurement duration: 14 minutes 29 seconds

Mobile Phone IMEI number:

### **A. Experimental conditions.**

|                        |                                   |
|------------------------|-----------------------------------|
| <b>Phantom File</b>    | surf_sam_plan.txt, Adaptive 2 max |
| <b>Phantom</b>         | Validation plane                  |
| <b>Device Position</b> | Body                              |
| <b>Band</b>            | GSM850                            |
| <b>Channels</b>        | Middle                            |
| <b>Signal</b>          | GSM                               |

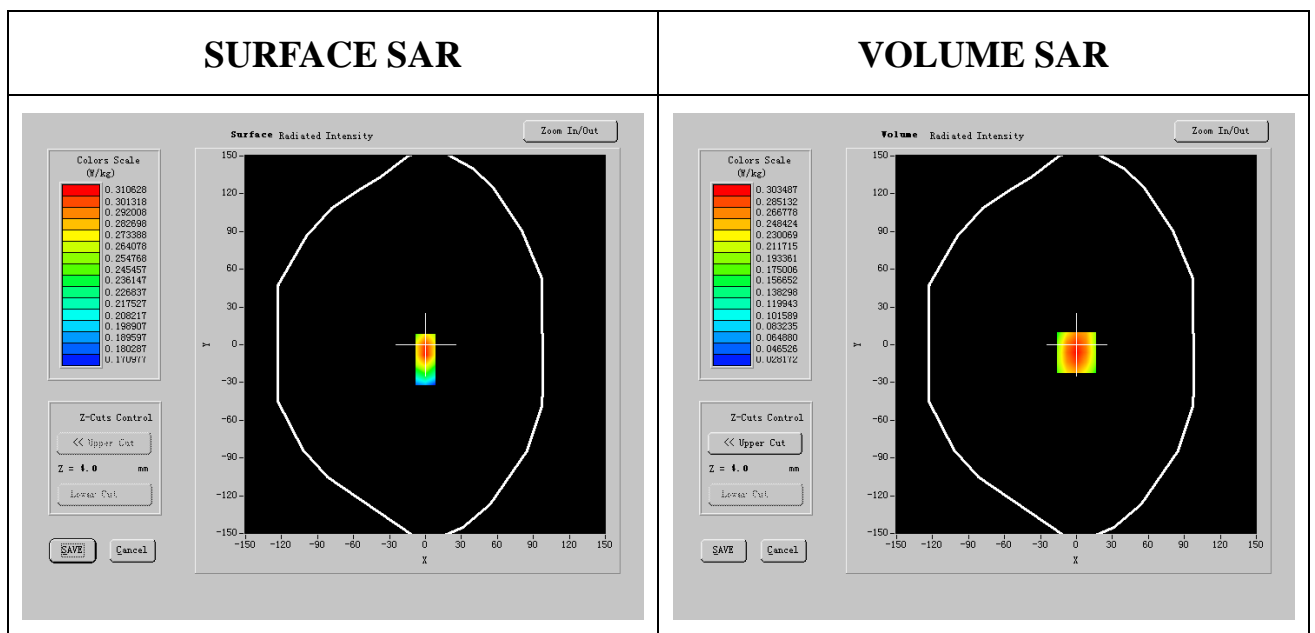
---

## **B. Instrumentations.**

|                         |  |
|-------------------------|--|
| <b>PC</b>               | HP (Pentium(R) V 3.06GHz, SN:375052-AA1) |
| <b>Network Emulator</b> | R&S (CMU200, SN:B23-03291)               |
| <b>Voltmeter</b>        | Keithley (2000, SN:1015843)              |
| <b>Synthesizer</b>      | Agilent (E8257C, SN:MY43321570)          |
| <b>Amplifier</b>        | Mini-Circuits (ZHL-42, SN:110405)        |
| <b>Power Meter</b>      | Agilent (E4416A, SN:QB41292714)          |
| <b>Probe</b>            | Antennessa (SN:SN_1109_EP_100)           |
| <b>Phantom</b>          | Antennessa (SN:SN41_05_SAM29)            |
| <b>Liquid</b>           | Antennessa                               |

## C. SAR Measurement Results

|   |            |
|---|------------|
| <b>Frequency (MHz)</b>                        | 836.400024 |
| <b>Relative permittivity (real part)</b>      | 55.510239  |
| <b>Relative permittivity (imaginary part)</b> | 21.865179  |
| <b>Conductivity (S/m)</b>                     | 0.960256   |
| <b>Variation (%)</b>                          | -0.900000  |



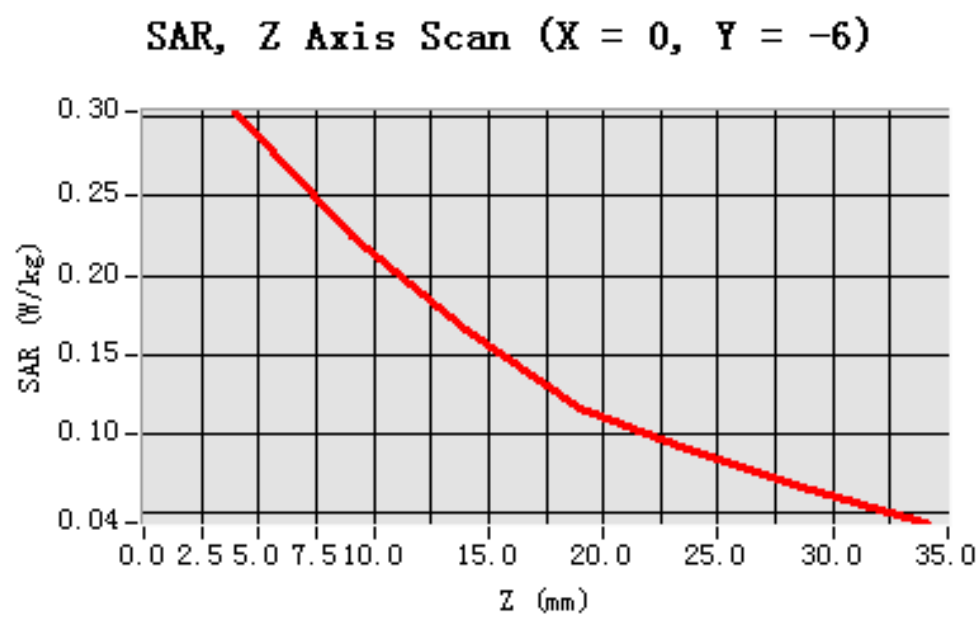
---

**Maximum location: X=0.00, Y=-6.00**

|                      |          |
|----------------------|----------|
| <b>SAR 1g (W/Kg)</b> | 0.269214 |
|----------------------|----------|

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### Z Axis Scan





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## MEASUREMENT 3

Type: Phone measurement (Complete)

Date of measurement: 13/5/2010

Measurement duration: 14 minutes 29 seconds

Mobile Phone IMEI number:

### **A. Experimental conditions.**

|                        |                                   |
|------------------------|-----------------------------------|
| <b>Phantom File</b>    | surf_sam_plan.txt, Adaptive 2 max |
| <b>Phantom</b>         | Validation plane                  |
| <b>Device Position</b> | Body                              |
| <b>Band</b>            | GSM850                            |
| <b>Channels</b>        | High                              |
| <b>Signal</b>          | GSM                               |

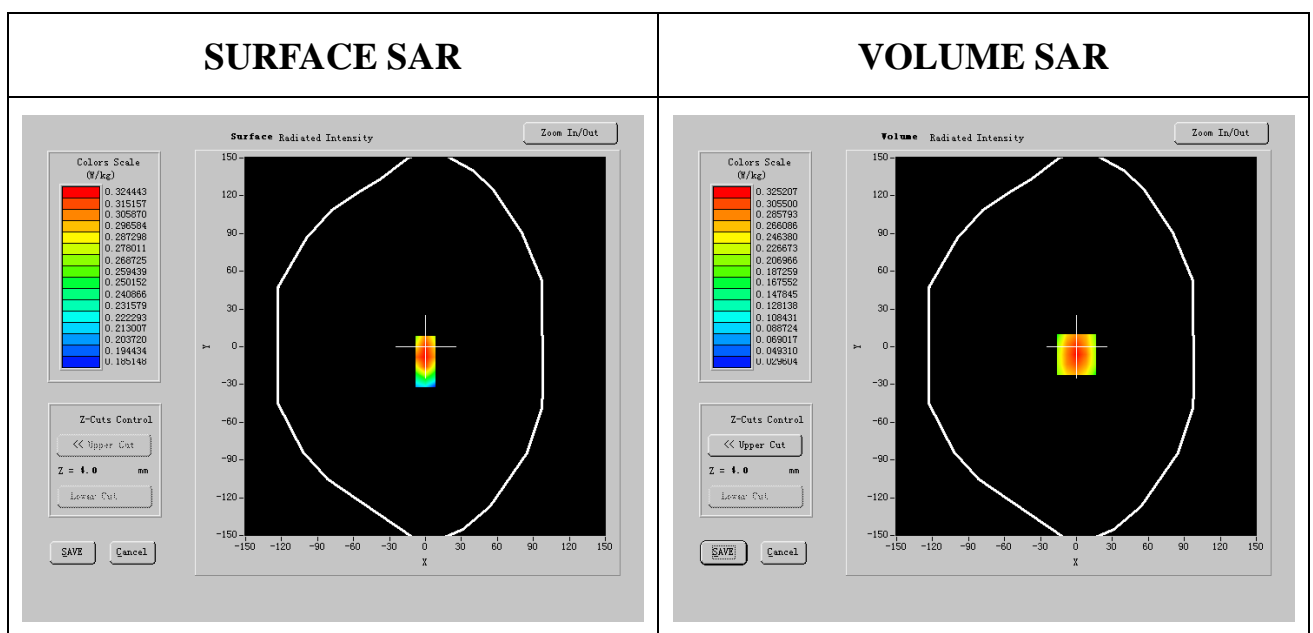
### **B. Instrumentations.**

---

|                         |  |
|-------------------------|--|
| <b>PC</b>               | HP (Pentium(R) V 3.06GHz, SN:375052-AA1) |
| <b>Network Emulator</b> | R&S (CMU200, SN:B23-03291)               |
| <b>Voltmeter</b>        | Keithley (2000, SN:1015843)              |
| <b>Synthetizer</b>      | Agilent (E8257C, SN:MY43321570)          |
| <b>Amplifier</b>        | Mini-Circuits (ZHL-42, SN:110405)        |
| <b>Power Meter</b>      | Agilent (E4416A, SN:QB41292714)          |
| <b>Probe</b>            | Antennessa (SN:SN_1109_EP_100)           |
| <b>Phantom</b>          | Antennessa (SN:SN41_05_SAM29)            |
| <b>Liquid</b>           | Antennessa                               |

## C. SAR Measurement Results

|   |            |
|---|------------|
| <b>Frequency (MHz)</b>                        | 848.599976 |
| <b>Relative permittivity (real part)</b>      | 55.567142  |
| <b>Relative permittivity (imaginary part)</b> | 21.721431  |
| <b>Conductivity (S/m)</b>                     | 0.961248   |
| <b>Variation (%)</b>                          | -1.000000  |



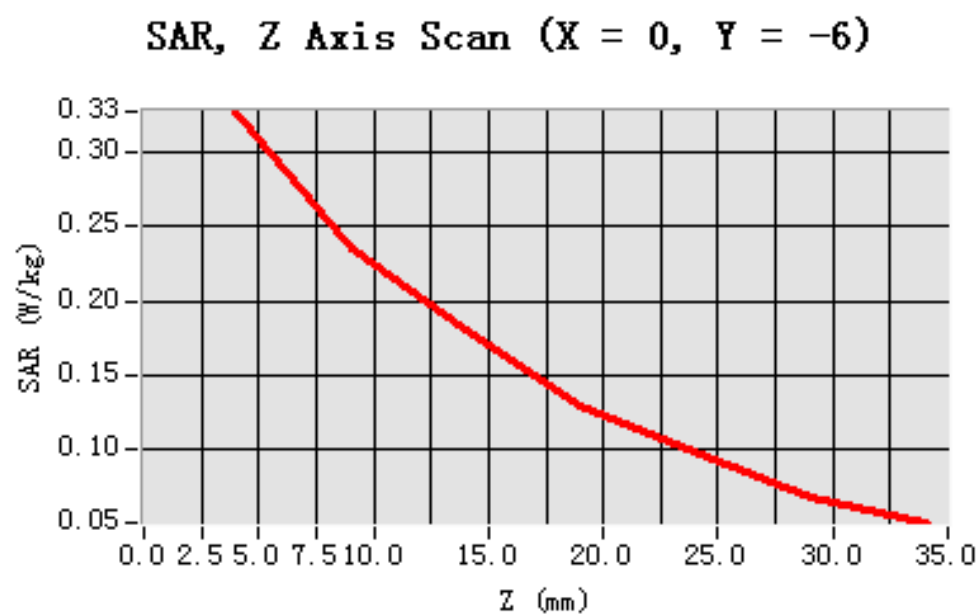
---

**Maximum location: X=0.00, Y=-6.00**

|                      |          |
|----------------------|----------|
| <b>SAR 1g (W/Kg)</b> | 0.312143 |
|----------------------|----------|

---

### Z Axis Scan



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## GSM 1900

### I. RESULTS

| <u>TYPE</u>       | <u>BAND</u>    | <u>PARAMETERS</u>   |
|-------------------|----------------|---|
| <u>Noise</u>      | --             | --  |
| <u>Validation</u> | --             | --  |
| <u>Phone</u>      | <u>GSM1900</u> | <u>Measurement 1:</u> Right Head with Cheek device position on Low Channel in GSM mode<br><u>Measurement 2:</u> Right Head with Cheek device position on Middle Channel in GSM mode<br><u>Measurement 3:</u> Right Head with Cheek device position on High Channel in GSM mode<br><u>Measurement 4:</u> Right Head with Tilt device position on Low Channel in GSM mode<br><u>Measurement 5:</u> Right Head with Tilt device position on Middle Channel in GSM mode<br><u>Measurement 6:</u> Right Head with Tilt device position on High Channel in GSM mode<br><u>Measurement 7:</u> Left Head with Cheek device position on Low Channel in GSM mode<br><u>Measurement 8:</u> Left Head with Cheek device position on Middle Channel in GSM mode<br><u>Measurement 9:</u> Left Head with Cheek device position on High Channel in GSM mode<br><u>Measurement 10:</u> Left Head with Tilt device position on Low Channel in GSM mode<br><u>Measurement 11:</u> Left Head with Tilt device position on Middle Channel in GSM mode<br><u>Measurement 12:</u> Left Head with Tilt device position on High Channel in GSM mode |

---

## MEASUREMENT 1

Type: Phone measurement (Complete)

Date of measurement: 13/5/2010

Measurement duration: 15 minutes 3 seconds

Mobile Phone IMEI number: --

### **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.**

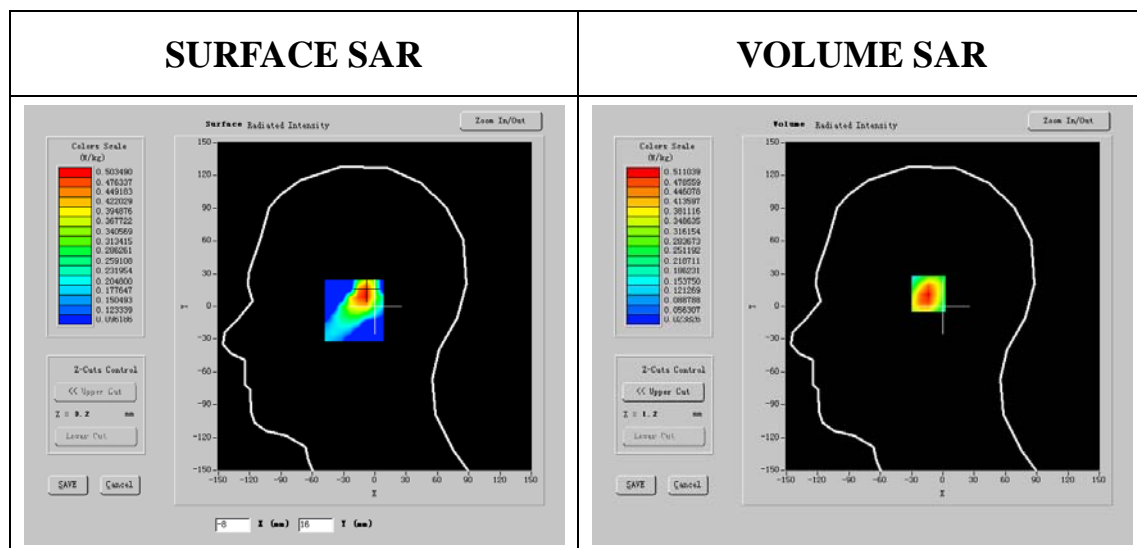
---

|                         |   |
|-------------------------|---|
| <b>PC</b>               | HP (Pentium(R) V3.06GHz, SN:375052-AA1) |
| <b>Network Emulator</b> | R&S (CMU200, SN:B23-03291)              |
| <b>Voltmeter</b>        | Keithley (2000, SN:1015843)             |
| <b>Synthetizer</b>      | Agilent (E8257C, SN:MY43321570)         |
| <b>Amplifier</b>        | Mini-Circuits (ZHL-42, SN:110405)       |
| <b>Power Meter</b>      | Agilent (E4416A, SN:QB41292714)         |
| <b>Probe</b>            | Antennessa (SN:SN 11-09 EP100)          |
| <b>Phantom</b>          | Antennessa (SN:SN41_05_SAM29)           |
| <b>Liquid</b>           | Antennessa                              |



## C. SAR Measurement Results

|   |             |
|---|-------------|
| <b>Frequency (MHz)</b>                        | 1850.200024 |
| <b>Relative permittivity (real part)</b>      | 40.310200   |
| <b>Relative permittivity (imaginary part)</b> | 13.535200   |
| <b>Conductivity (S/m)</b>                     | 1.432218    |
| <b>Variation (%)</b>                          | -1.200000   |



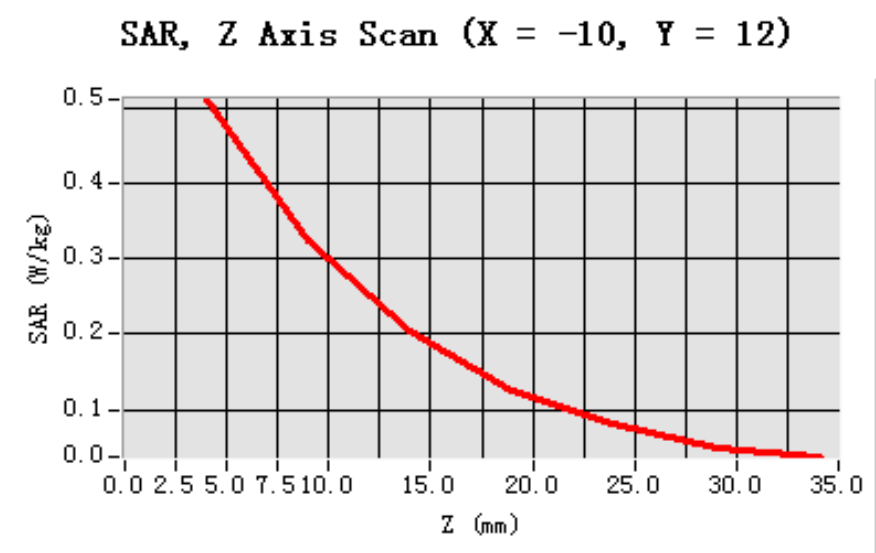
---

**Maximum location: X=-10.00, Y=12.00**

|                      |          |
|----------------------|----------|
| <b>SAR 1g (W/Kg)</b> | 0.483216 |
|----------------------|----------|

---

## Z Axis Scan



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## MEASUREMENT 2

Type: Phone measurement (Complete)

Date of measurement: 13/5/2010

Measurement duration: 15 minutes 3 seconds

Mobile Phone IMEI number: --

### **A. Experimental conditions.**

|                        |                              |
|------------------------|------------------------------|
| <b>Phantom File</b>    | zinf15.txt, Adaptative 2 max |
| <b>Phantom</b>         | Right head                   |
| <b>Device Position</b> | Cheek                        |
| <b>Band</b>            | GSM1900                      |
| <b>Channels</b>        | Middle                       |
| <b>Signal</b>          | GSM                          |

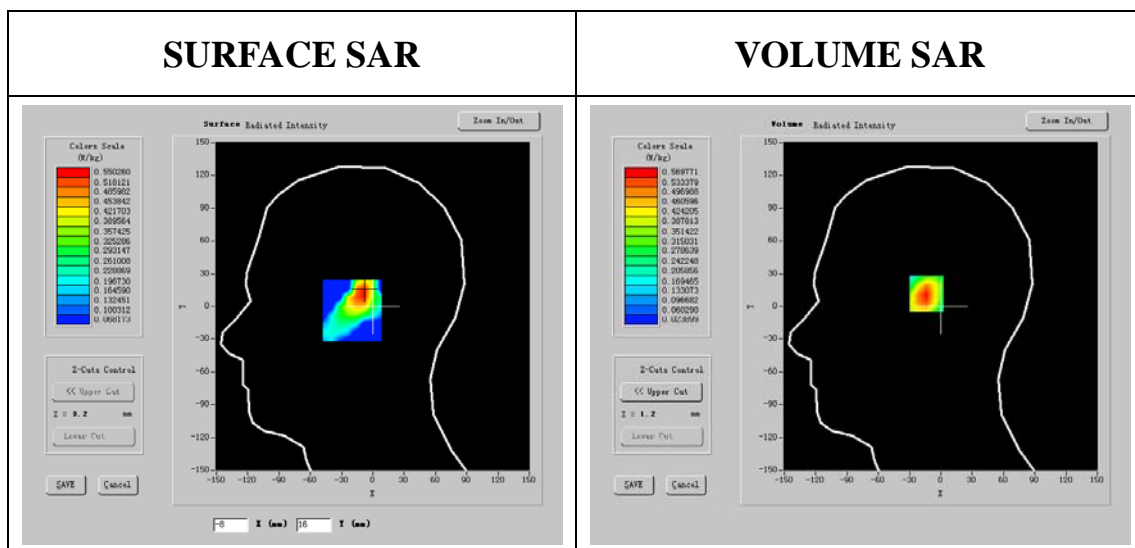
### **B. Instrumentations.**

---

|                         |   |
|-------------------------|---|
| <b>PC</b>               | HP (Pentium(R) V3.06GHz, SN:375052-AA1) |
| <b>Network Emulator</b> | R&S (CMU200, SN:B23-03291)              |
| <b>Voltmeter</b>        | Keithley (2000, SN:1015843)             |
| <b>Synthetizer</b>      | Agilent (E8257C, SN:MY43321570)         |
| <b>Amplifier</b>        | Mini-Circuits (ZHL-42, SN:110405)       |
| <b>Power Meter</b>      | Agilent (E4416A, SN:QB41292714)         |
| <b>Probe</b>            | Antennessa (SN:SN 11-09 EP100)          |
| <b>Phantom</b>          | Antennessa (SN:SN41_05_SAM29)           |
| <b>Liquid</b>           | Antennessa                              |

## C. SAR Measurement Results

|   |             |
|---|-------------|
| <b>Frequency (MHz)</b>                        | 1880.000000 |
| <b>Relative permittivity (real part)</b>      | 40.112031   |
| <b>Relative permittivity (imaginary part)</b> | 13.829140   |
| <b>Conductivity (S/m)</b>                     | 1.420105    |
| <b>Variation (%)</b>                          | -0.100000   |



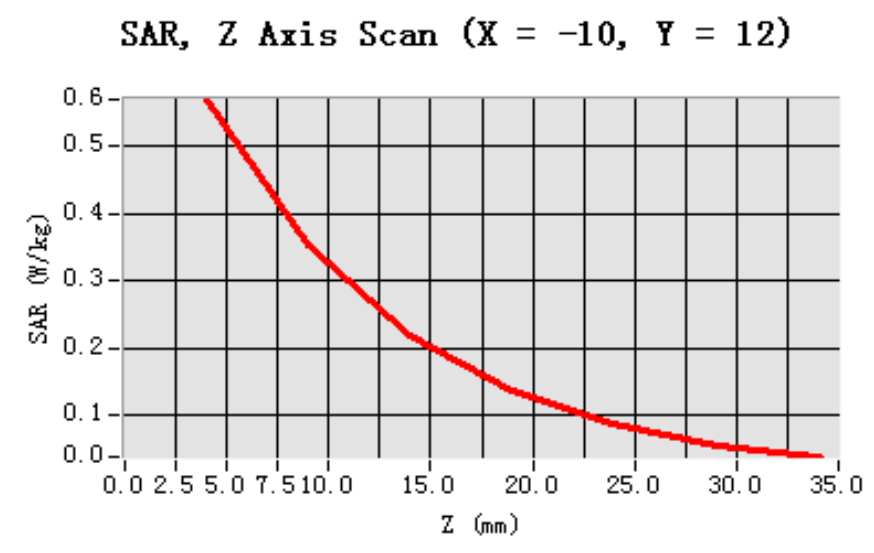
---

**Maximum location: X=-10.00, Y=12.00**

|                      |          |
|----------------------|----------|
| <b>SAR 1g (W/Kg)</b> | 0.532012 |
|----------------------|----------|

---

## Z Axis Scan





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## MEASUREMENT 3

Type: Phone measurement (Complete)

Date of measurement: 13/5/2010

Measurement duration: 15 minutes 3 seconds

Mobile Phone IMEI number: --

### **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                        |

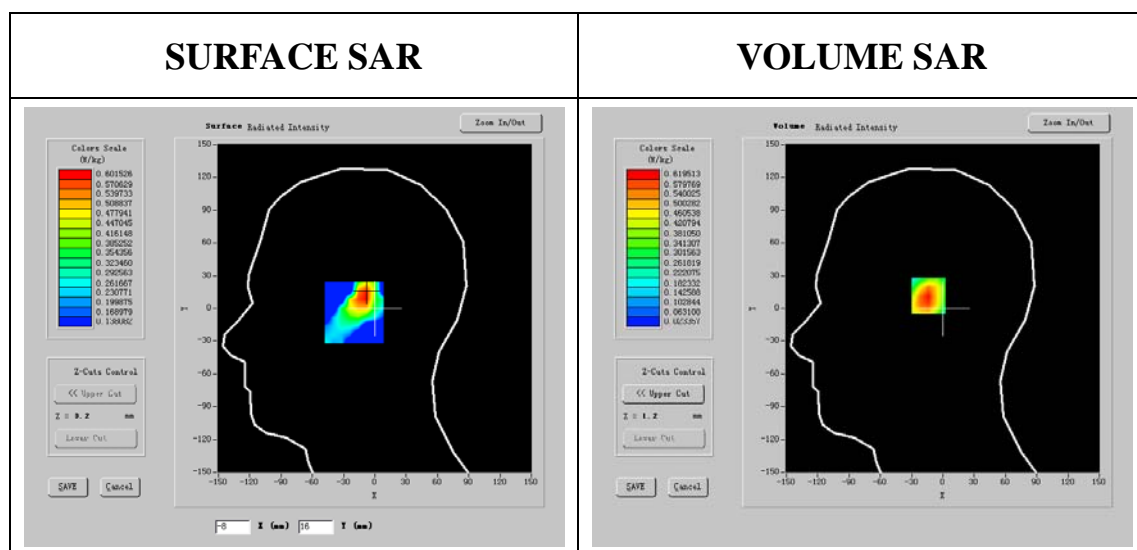
### **B. Instrumentations.**

---

|                         |   |
|-------------------------|---|
| <b>PC</b>               | HP (Pentium(R) V3.06GHz, SN:375052-AA1) |
| <b>Network Emulator</b> | R&S (CMU200, SN:B23-03291)              |
| <b>Voltmeter</b>        | Keithley (2000, SN:1015843)             |
| <b>Synthetizer</b>      | Agilent (E8257C, SN:MY43321570)         |
| <b>Amplifier</b>        | Mini-Circuits (ZHL-42, SN:110405)       |
| <b>Power Meter</b>      | Agilent (E4416A, SN:QB41292714)         |
| <b>Probe</b>            | Antennessa (SN:SN 11-09 EP100)          |
| <b>Phantom</b>          | Antennessa (SN:SN41_05_SAM29)           |
| <b>Liquid</b>           | Antennessa                              |

## C. SAR Measurement Results

|   |             |
|---|-------------|
| <b>Frequency (MHz)</b>                        | 1910.000216 |
| <b>Relative permittivity (real part)</b>      | 40.212009   |
| <b>Relative permittivity (imaginary part)</b> | 13.621200   |
| <b>Conductivity (S/m)</b>                     | 1.421345    |
| <b>Variation (%)</b>                          | -0.300000   |



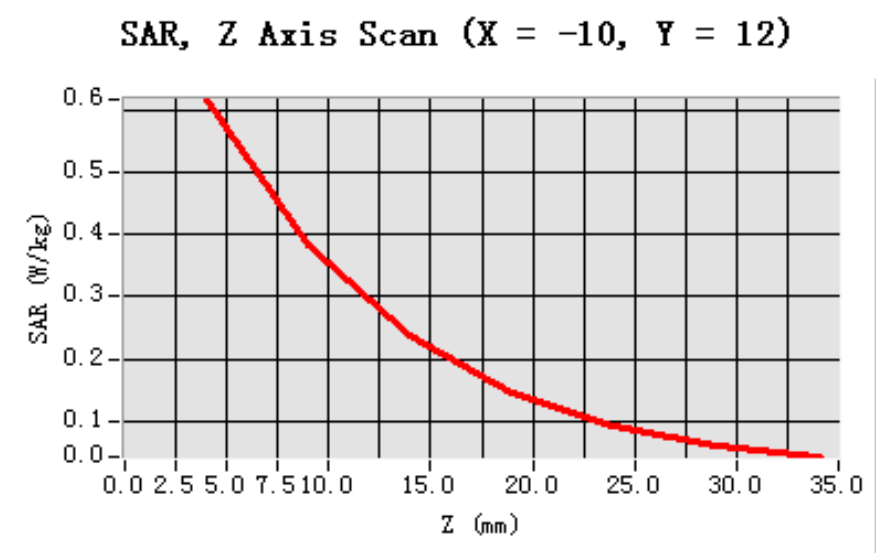
---

**Maximum location: X=-10.00, Y=12.00**

|                      |          |
|----------------------|----------|
| <b>SAR 1g (W/Kg)</b> | 0.572312 |
|----------------------|----------|

---

## Z Axis Scan



---

## MEASUREMENT 4

Type: Phone measurement (Complete)

Date of measurement: 13/5/2010

Measurement duration: 14 minutes 27 seconds

Mobile Phone IMEI number: --

### **A. Experimental conditions.**

|                        |                              |
|------------------------|------------------------------|
| <b>Phantom File</b>    | zinf15.txt, Adaptative 2 max |
| <b>Phantom</b>         | Right head                   |
| <b>Device Position</b> | Tilt                         |
| <b>Band</b>            | GSM1900                      |
| <b>Channels</b>        | Low                          |
| <b>Signal</b>          | GSM                          |

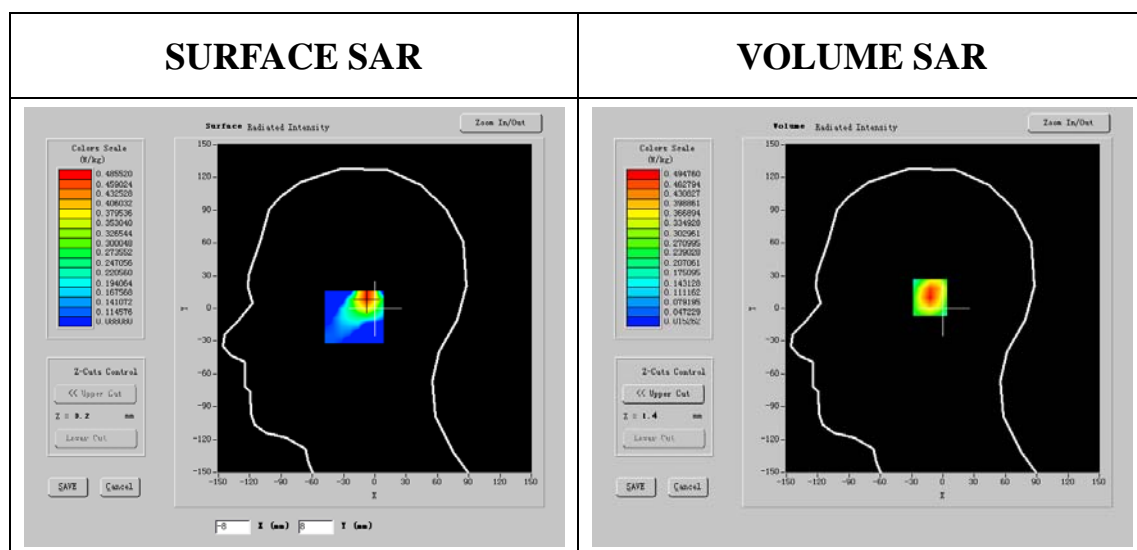
### **B. Instrumentations.**

---

|                         |   |
|-------------------------|---|
| <b>PC</b>               | HP (Pentium(R) V3.06GHz, SN:375052-AA1) |
| <b>Network Emulator</b> | R&S (CMU200, SN:B23-03291)              |
| <b>Voltmeter</b>        | Keithley (2000, SN:1015843)             |
| <b>Synthetizer</b>      | Agilent (E8257C, SN:MY43321570)         |
| <b>Amplifier</b>        | Mini-Circuits (ZHL-42, SN:110405)       |
| <b>Power Meter</b>      | Agilent (E4416A, SN:QB41292714)         |
| <b>Probe</b>            | Antennessa (SN:SN 11-09 EP100)          |
| <b>Phantom</b>          | Antennessa (SN:SN41_05_SAM29)           |
| <b>Liquid</b>           | Antennessa                              |

## C. SAR Measurement Results

|   |             |
|---|-------------|
| <b>Frequency (MHz)</b>                        | 1850.200020 |
| <b>Relative permittivity (real part)</b>      | 40.310230   |
| <b>Relative permittivity (imaginary part)</b> | 13.524100   |
| <b>Conductivity (S/m)</b>                     | 1.402108    |
| <b>Variation (%)</b>                          | -1.400000   |





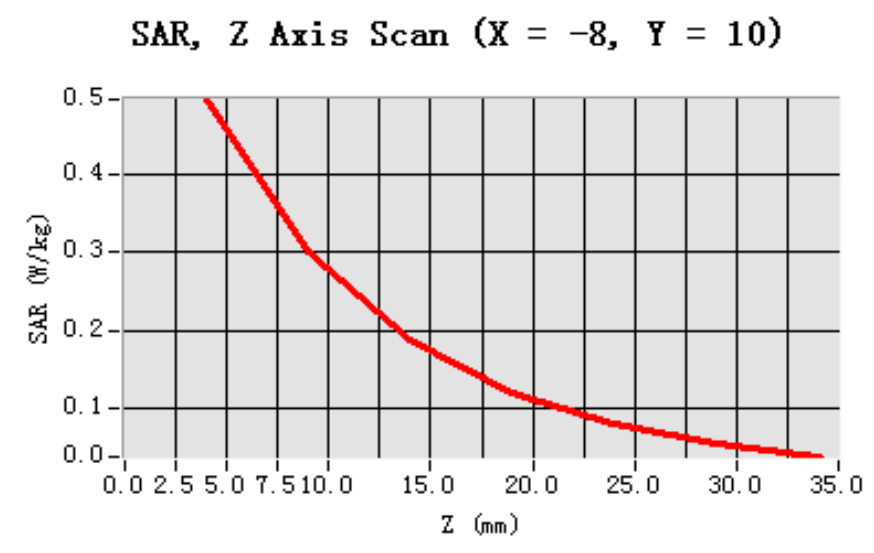
---

**Maximum location: X=-8.00, Y=10.00**

|                      |          |
|----------------------|----------|
| <b>SAR 1g (W/Kg)</b> | 0.443211 |
|----------------------|----------|

---

## Z Axis Scan



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## MEASUREMENT 5

Type: Phone measurement (Complete)

Date of measurement: 13/5/2010

Measurement duration: 14 minutes 27 seconds

Mobile Phone IMEI number: --

### **A. Experimental conditions.**

|                        |                              |
|------------------------|------------------------------|
| <b>Phantom File</b>    | zinf15.txt, Adaptative 2 max |
| <b>Phantom</b>         | Right head                   |
| <b>Device Position</b> | Tilt                         |
| <b>Band</b>            | GSM1900                      |
| <b>Channels</b>        | Middle                       |
| <b>Signal</b>          | GSM                          |

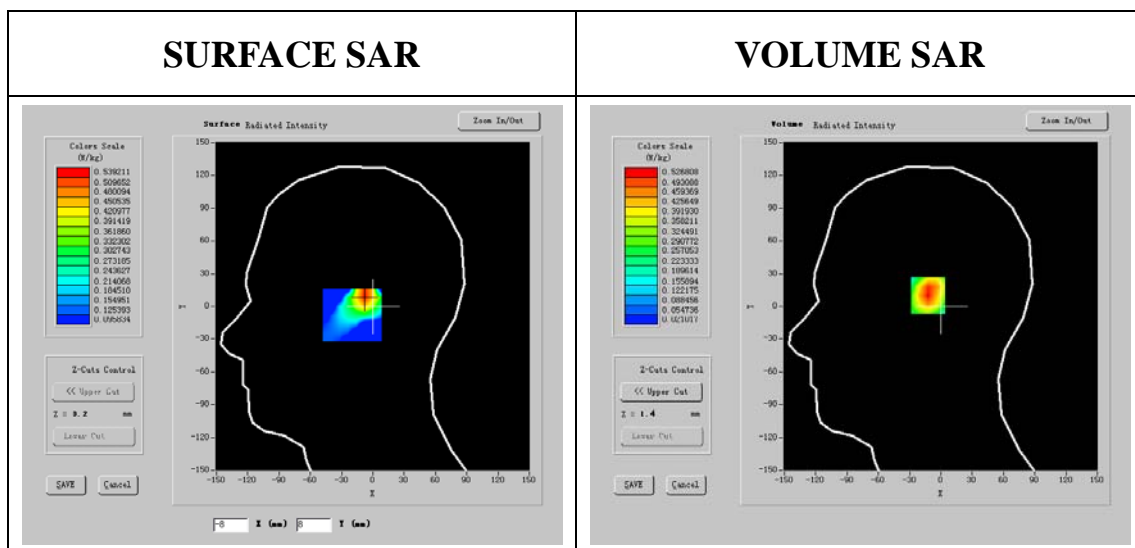
### **B. Instrumentations.**

---

|                         |   |
|-------------------------|---|
| <b>PC</b>               | HP (Pentium(R) V3.06GHz, SN:375052-AA1) |
| <b>Network Emulator</b> | R&S (CMU200, SN:B23-03291)              |
| <b>Voltmeter</b>        | Keithley (2000, SN:1015843)             |
| <b>Synthetizer</b>      | Agilent (E8257C, SN:MY43321570)         |
| <b>Amplifier</b>        | Mini-Circuits (ZHL-42, SN:110405)       |
| <b>Power Meter</b>      | Agilent (E4416A, SN:QB41292714)         |
| <b>Probe</b>            | Antennessa (SN:SN 11-09 EP100)          |
| <b>Phantom</b>          | Antennessa (SN:SN41_05_SAM29)           |
| <b>Liquid</b>           | Antennessa                              |

## C. SAR Measurement Results

|   |             |
|---|-------------|
| <b>Frequency (MHz)</b>                        | 1880.000000 |
| <b>Relative permittivity (real part)</b>      | 40.213201   |
| <b>Relative permittivity (imaginary part)</b> | 13.802000   |
| <b>Conductivity (S/m)</b>                     | 1.432010    |
| <b>Variation (%)</b>                          | -0.450000   |



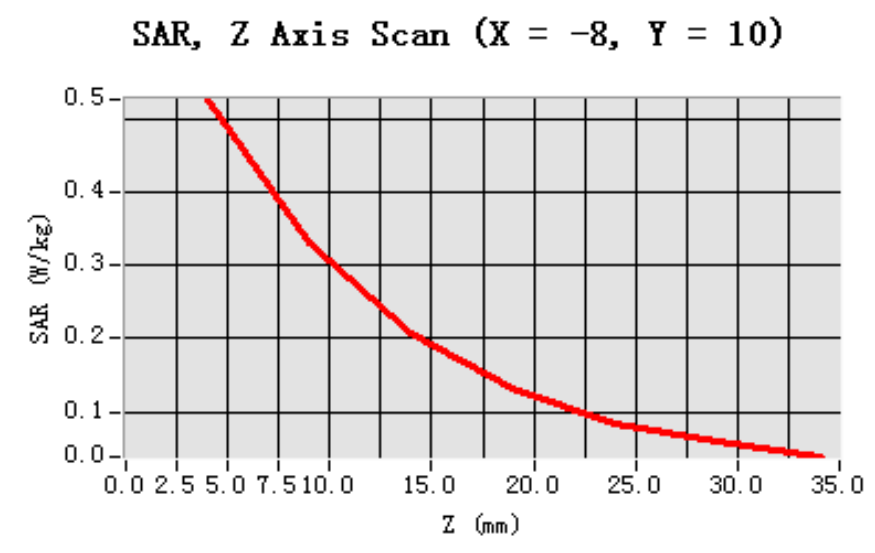
---

**Maximum location: X=-8.00, Y=10.00**

|                      |          |
|----------------------|----------|
| <b>SAR 1g (W/Kg)</b> | 0.486242 |
|----------------------|----------|

---

## Z Axis Scan



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## MEASUREMENT 6

Type: Phone measurement (Complete)

Date of measurement: 13/5/2010

Measurement duration: 14 minutes 27 seconds

Mobile Phone IMEI number: --

### **A. Experimental conditions.**

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

### **B. Instrumentations.**

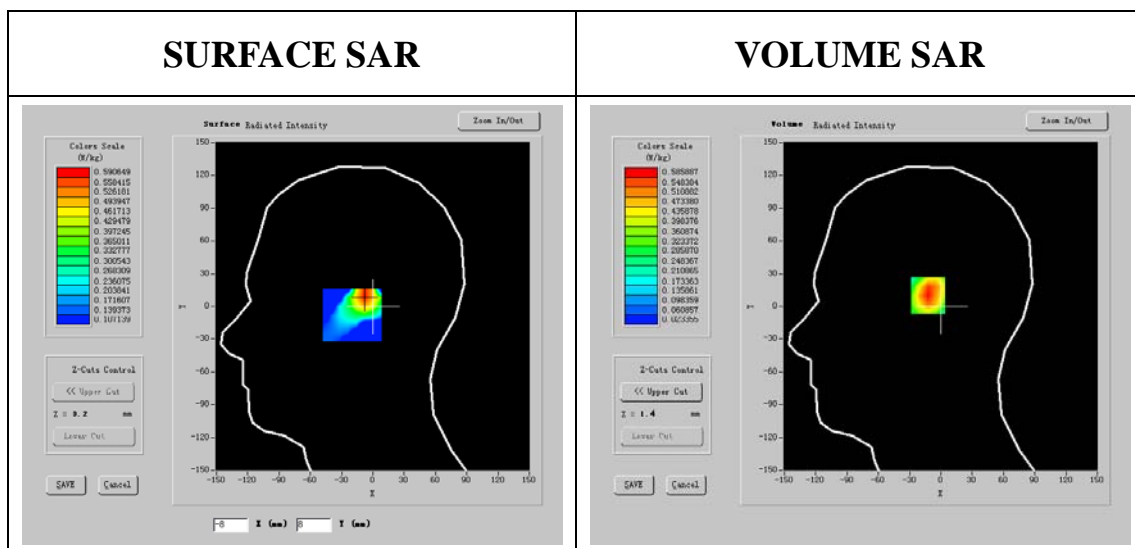


---

|                         |   |
|-------------------------|---|
| <b>PC</b>               | HP (Pentium(R) V3.06GHz, SN:375052-AA1) |
| <b>Network Emulator</b> | R&S (CMU200, SN:B23-03291)              |
| <b>Voltmeter</b>        | Keithley (2000, SN:1015843)             |
| <b>Synthetizer</b>      | Agilent (E8257C, SN:MY43321570)         |
| <b>Amplifier</b>        | Mini-Circuits (ZHL-42, SN:110405)       |
| <b>Power Meter</b>      | Agilent (E4416A, SN:QB41292714)         |
| <b>Probe</b>            | Antennessa (SN:SN 11-09 EP100)          |
| <b>Phantom</b>          | Antennessa (SN:SN41_05_SAM29)           |
| <b>Liquid</b>           | Antennessa                              |

## C. SAR Measurement Results

|   |             |
|---|-------------|
| <b>Frequency (MHz)</b>                        | 1910.000216 |
| <b>Relative permittivity (real part)</b>      | 40.302159   |
| <b>Relative permittivity (imaginary part)</b> | 13.220300   |
| <b>Conductivity (S/m)</b>                     | 1.415220    |
| <b>Variation (%)</b>                          | -1.000000   |



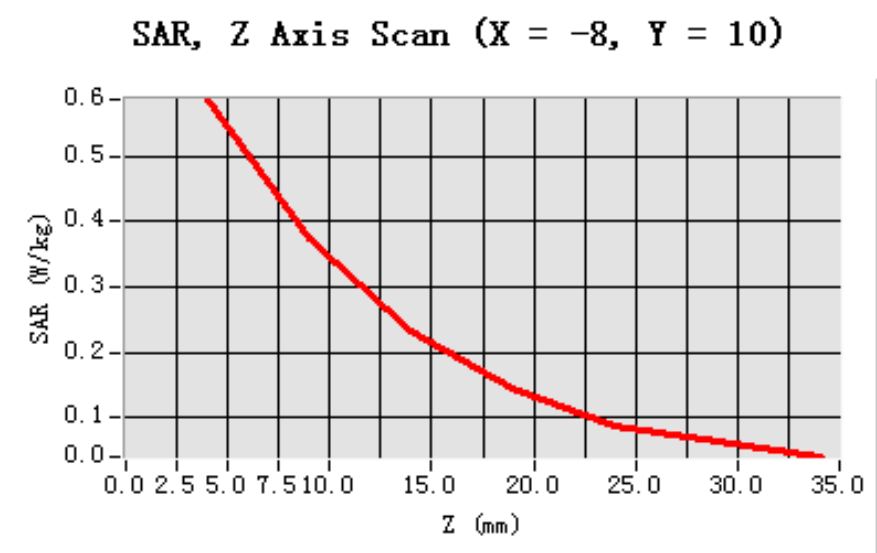
---

**Maximum location: X=-8.00, Y=10.00**

|                      |          |
|----------------------|----------|
| <b>SAR 1g (W/Kg)</b> | 0.551234 |
|----------------------|----------|

---

## Z Axis Scan



---

## MEASUREMENT 7

Type: Phone measurement (Complete)

Date of measurement: 13/5/2010

Measurement duration: 14 minutes 27 seconds

Mobile Phone IMEI number: --

### **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                        |

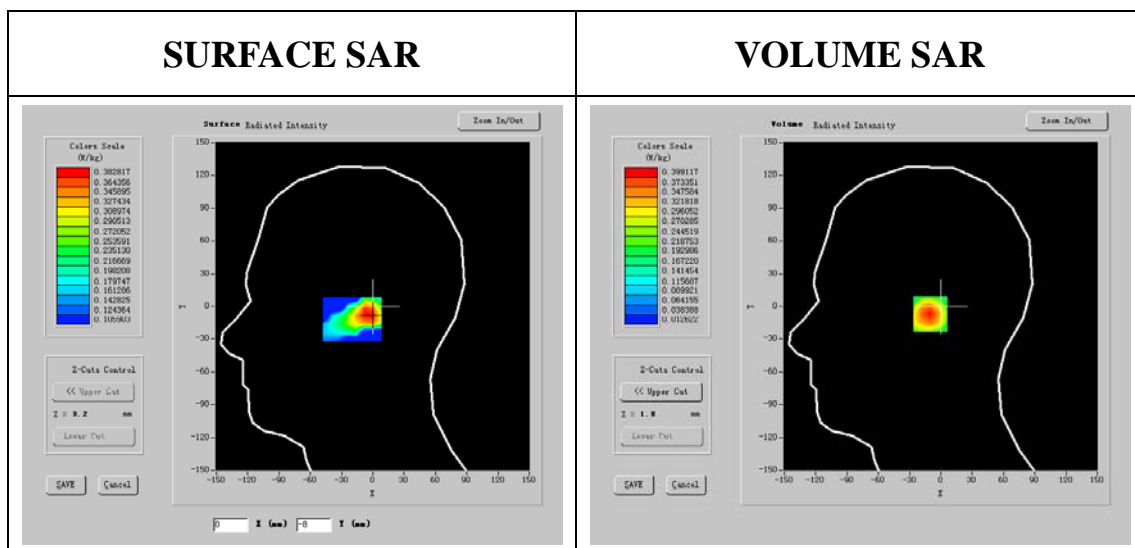
### **B. Instrumentations.**

---

|                         |   |
|-------------------------|---|
| <b>PC</b>               | HP (Pentium(R) V3.06GHz, SN:375052-AA1) |
| <b>Network Emulator</b> | R&S (CMU200, SN:B23-03291)              |
| <b>Voltmeter</b>        | Keithley (2000, SN:1015843)             |
| <b>Synthesizer</b>      | Agilent (E8257C, SN:MY43321570)         |
| <b>Amplifier</b>        | Mini-Circuits (ZHL-42, SN:110405)       |
| <b>Power Meter</b>      | Agilent (E4416A, SN:QB41292714)         |
| <b>Probe</b>            | Antennessa (SN:SN 11-09 EP100)          |
| <b>Phantom</b>          | Antennessa (SN:SN41_05_SAM29)           |
| <b>Liquid</b>           | Antennessa                              |

## C. SAR Measurement Results

|   |             |
|---|-------------|
| <b>Frequency (MHz)</b>                        | 1850.200001 |
| <b>Relative permittivity (real part)</b>      | 40.323100   |
| <b>Relative permittivity (imaginary part)</b> | 13.530200   |
| <b>Conductivity (S/m)</b>                     | 1.421230    |
| <b>Variation (%)</b>                          | 0.700000    |



---

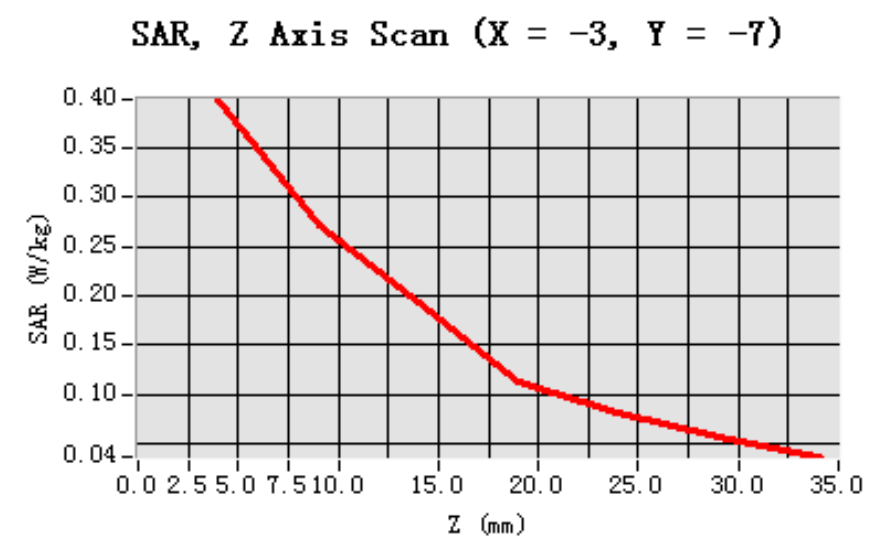
**Maximum location: X=-3.00, Y=-7.00**

|                      |          |
|----------------------|----------|
| <b>SAR 1g (W/Kg)</b> | 0.355218 |
|----------------------|----------|



---

## Z Axis Scan



---

## MEASUREMENT 8

Type: Phone measurement (Complete)

Date of measurement: 13/5/2010

Measurement duration: 14 minutes 27 seconds

Mobile Phone IMEI number: --

### **A. Experimental conditions.**

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

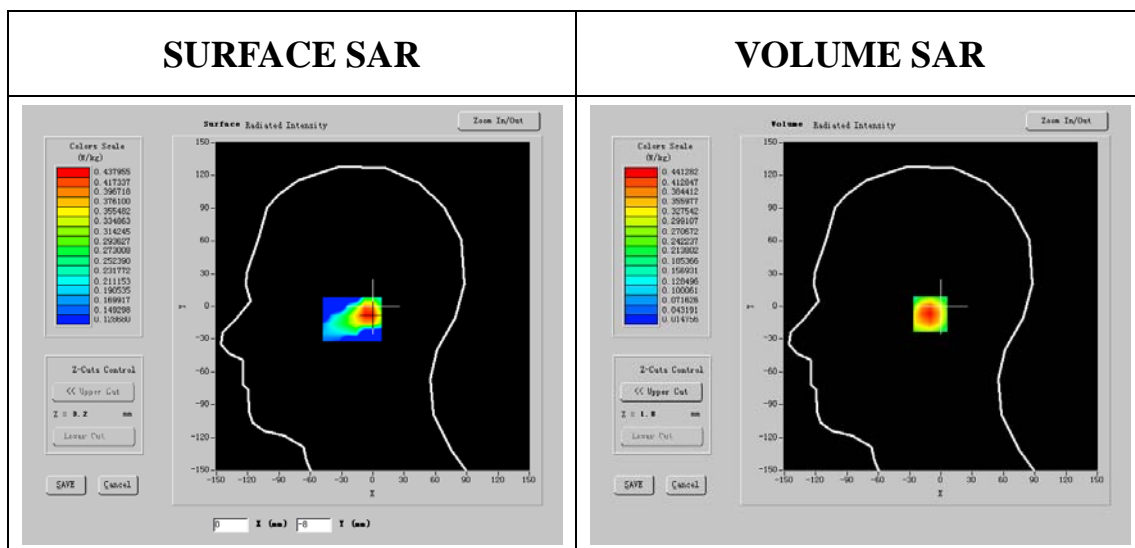
### **B. Instrumentations.**

---

|                         |   |
|-------------------------|---|
| <b>PC</b>               | HP (Pentium(R) V3.06GHz, SN:375052-AA1) |
| <b>Network Emulator</b> | R&S (CMU200, SN:B23-03291)              |
| <b>Voltmeter</b>        | Keithley (2000, SN:1015843)             |
| <b>Synthesizer</b>      | Agilent (E8257C, SN:MY43321570)         |
| <b>Amplifier</b>        | Mini-Circuits (ZHL-42, SN:110405)       |
| <b>Power Meter</b>      | Agilent (E4416A, SN:QB41292714)         |
| <b>Probe</b>            | Antennessa (SN:SN 11-09 EP100)          |
| <b>Phantom</b>          | Antennessa (SN:SN41_05_SAM29)           |
| <b>Liquid</b>           | Antennessa                              |

## C. SAR Measurement Results

|   |             |
|---|-------------|
| <b>Frequency (MHz)</b>                        | 1880.000000 |
| <b>Relative permittivity (real part)</b>      | 40.142032   |
| <b>Relative permittivity (imaginary part)</b> | 13.832000   |
| <b>Conductivity (S/m)</b>                     | 1.412102    |
| <b>Variation (%)</b>                          | 1.500000    |



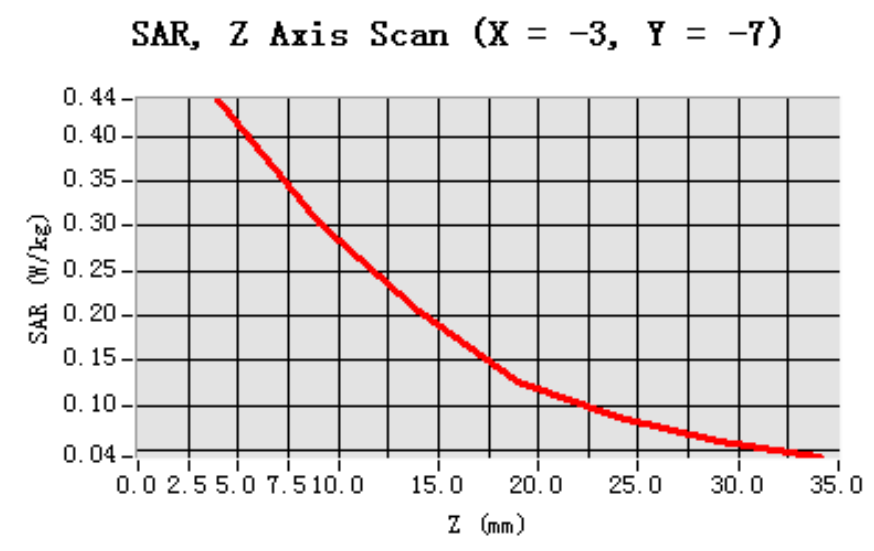
---

**Maximum location: X=-3.00, Y=-7.00**

|                      |          |
|----------------------|----------|
| <b>SAR 1g (W/Kg)</b> | 0.553247 |
|----------------------|----------|

---

## Z Axis Scan



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## MEASUREMENT 9

Type: Phone measurement (Complete)

Date of measurement: 13/5/2010

Measurement duration: 14 minutes 27 seconds

Mobile Phone IMEI number: --

### **A. Experimental conditions.**

|                        |                              |
|------------------------|------------------------------|
| <b>Phantom File</b>    | zinf15.txt, Adaptative 2 max |
| <b>Phantom</b>         | Left head                    |
| <b>Device Position</b> | Cheek                        |
| <b>Band</b>            | GSM1900                      |
| <b>Channels</b>        | High                         |
| <b>Signal</b>          | GSM                          |

### **B. Instrumentations.**

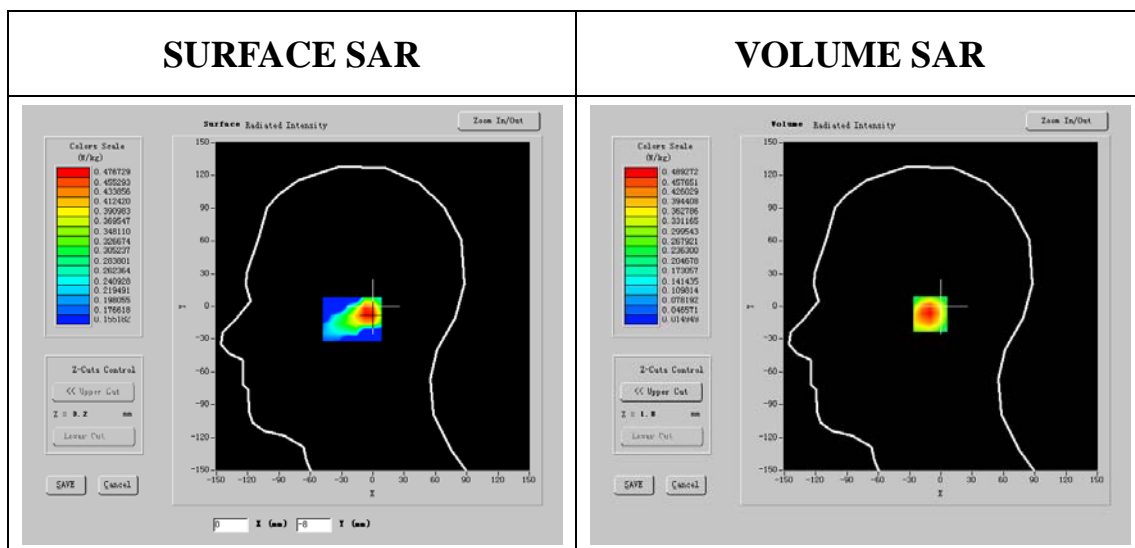
---

|                         |   |
|-------------------------|---|
| <b>PC</b>               | HP (Pentium(R) V3.06GHz, SN:375052-AA1) |
| <b>Network Emulator</b> | R&S (CMU200, SN:B23-03291)              |
| <b>Voltmeter</b>        | Keithley (2000, SN:1015843)             |
| <b>Synthesizer</b>      | Agilent (E8257C, SN:MY43321570)         |
| <b>Amplifier</b>        | Mini-Circuits (ZHL-42, SN:110405)       |
| <b>Power Meter</b>      | Agilent (E4416A, SN:QB41292714)         |
| <b>Probe</b>            | Antennessa (SN:SN 11-09 EP100)          |
| <b>Phantom</b>          | Antennessa (SN:SN41_05_SAM29)           |
| <b>Liquid</b>           | Antennessa                              |



## C. SAR Measurement Results

|   |             |
|---|-------------|
| <b>Frequency (MHz)</b>                        | 1910.000276 |
| <b>Relative permittivity (real part)</b>      | 40.103250   |
| <b>Relative permittivity (imaginary part)</b> | 13.602300   |
| <b>Conductivity (S/m)</b>                     | 1.411236    |
| <b>Variation (%)</b>                          | 0.450000    |



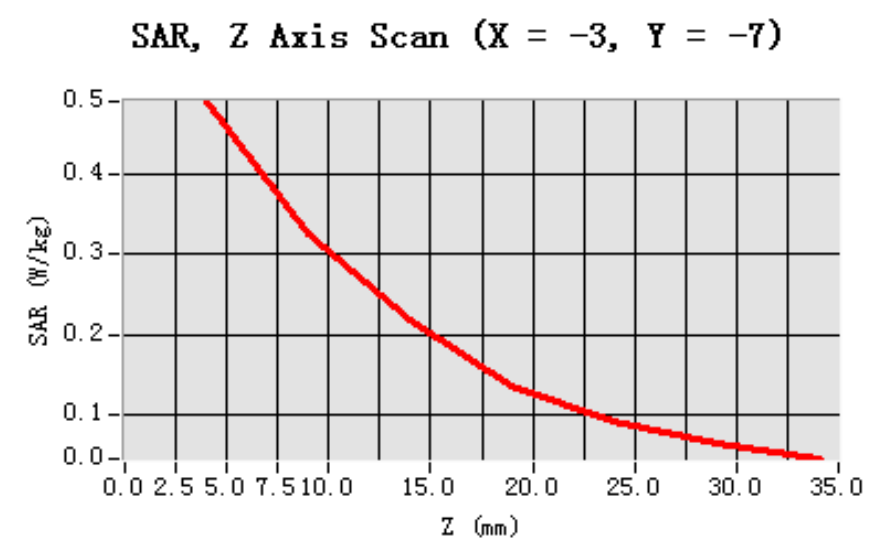
---

**Maximum location: X=-3.00, Y=-7.00**

|                      |          |
|----------------------|----------|
| <b>SAR 1g (W/Kg)</b> | 0.448751 |
|----------------------|----------|

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## Z Axis Scan



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## MEASUREMENT 10

Type: Phone measurement (Complete)

Date of measurement: 13/5/2010

Measurement duration: 14 minutes 19 seconds

Mobile Phone IMEI number: --

### **A. Experimental conditions.**

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

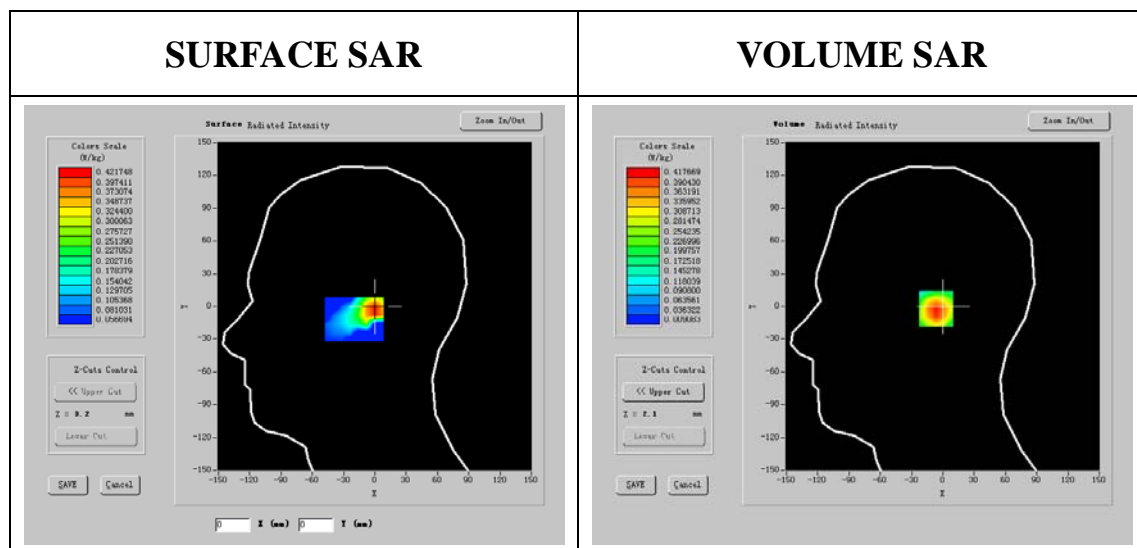
### **B. Instrumentations.**

---

|                         |   |
|-------------------------|---|
| <b>PC</b>               | HP (Pentium(R) V3.06GHz, SN:375052-AA1) |
| <b>Network Emulator</b> | R&S (CMU200, SN:B23-03291)              |
| <b>Voltmeter</b>        | Keithley (2000, SN:1015843)             |
| <b>Synthesizer</b>      | Agilent (E8257C, SN:MY43321570)         |
| <b>Amplifier</b>        | Mini-Circuits (ZHL-42, SN:110405)       |
| <b>Power Meter</b>      | Agilent (E4416A, SN:QB41292714)         |
| <b>Probe</b>            | Antennessa (SN:SN 11-09 EP100)          |
| <b>Phantom</b>          | Antennessa (SN:SN41_05_SAM29)           |
| <b>Liquid</b>           | Antennessa                              |

## C. SAR Measurement Results

|   |             |
|---|-------------|
| <b>Frequency (MHz)</b>                        | 1850.200004 |
| <b>Relative permittivity (real part)</b>      | 40.312300   |
| <b>Relative permittivity (imaginary part)</b> | 13.512300   |
| <b>Conductivity (S/m)</b>                     | 1.403510    |
| <b>Variation (%)</b>                          | -0.230000   |



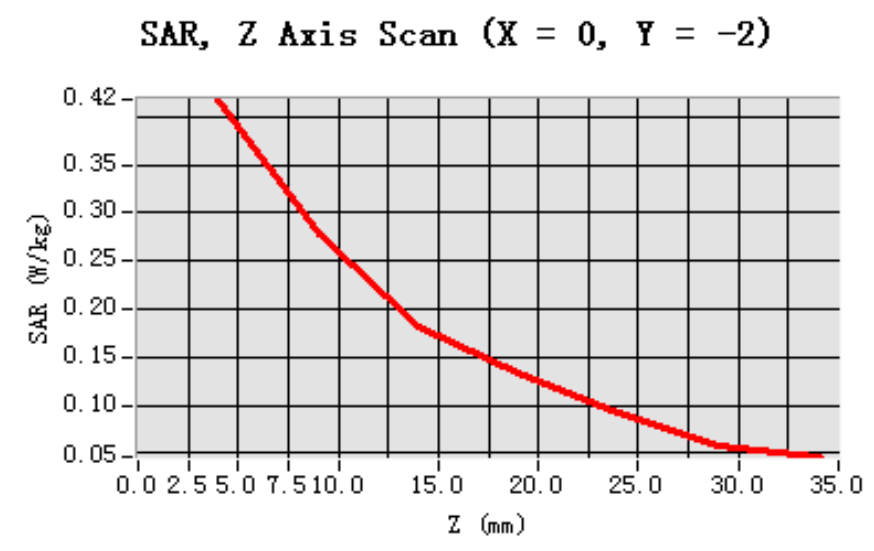
---

**Maximum location: X=0.00, Y=-2.00**

|                      |          |
|----------------------|----------|
| <b>SAR 1g (W/Kg)</b> | 0.360146 |
|----------------------|----------|

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## Z Axis Scan





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## MEASUREMENT 11

Type: Phone measurement (Complete)

Date of measurement: 13/5/2010

Measurement duration: 14 minutes 19 seconds

Mobile Phone IMEI number: --

### **A. Experimental conditions.**

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

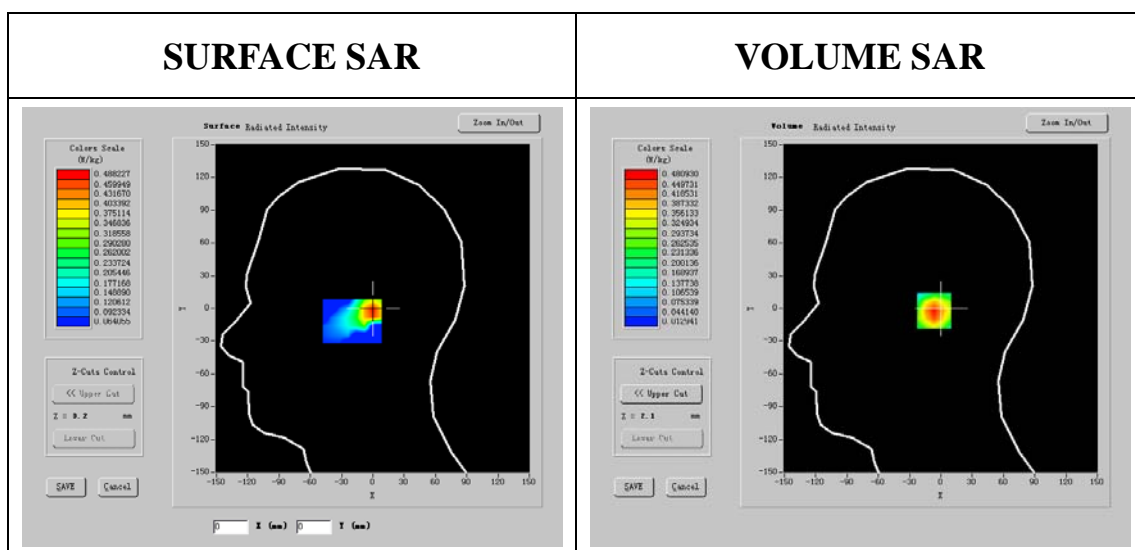
### **B. Instrumentations.**

---

|                         |   |
|-------------------------|---|
| <b>PC</b>               | HP (Pentium(R) V3.06GHz, SN:375052-AA1) |
| <b>Network Emulator</b> | R&S (CMU200, SN:B23-03291)              |
| <b>Voltmeter</b>        | Keithley (2000, SN:1015843)             |
| <b>Synthesizer</b>      | Agilent (E8257C, SN:MY43321570)         |
| <b>Amplifier</b>        | Mini-Circuits (ZHL-42, SN:110405)       |
| <b>Power Meter</b>      | Agilent (E4416A, SN:QB41292714)         |
| <b>Probe</b>            | Antennessa (SN:SN 11-09 EP100)          |
| <b>Phantom</b>          | Antennessa (SN:SN41_05_SAM29)           |
| <b>Liquid</b>           | Antennessa                              |

## C. SAR Measurement Results

|   |             |
|---|-------------|
| <b>Frequency (MHz)</b>                        | 1880.000000 |
| <b>Relative permittivity (real part)</b>      | 40.310201   |
| <b>Relative permittivity (imaginary part)</b> | 13.321300   |
| <b>Conductivity (S/m)</b>                     | 1.410010    |
| <b>Variation (%)</b>                          | -1.200000   |



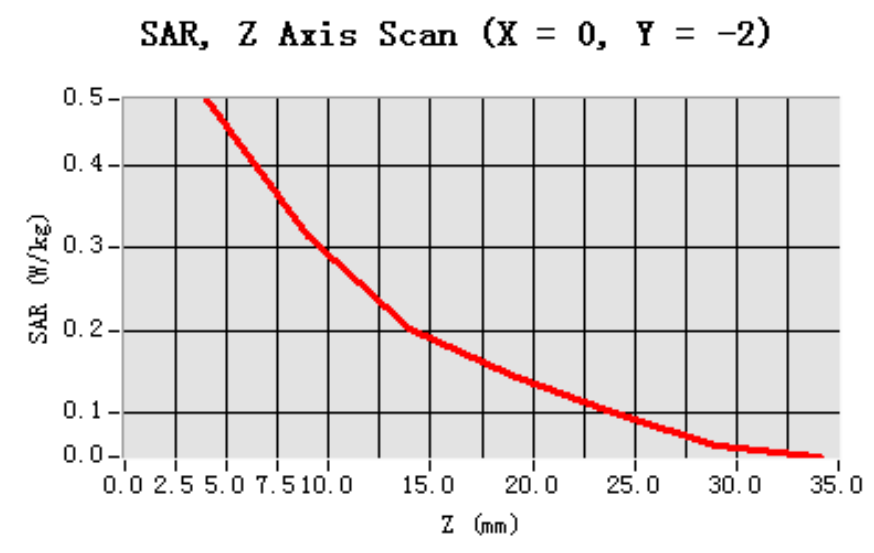
---

**Maximum location: X=0.00, Y=-2.00**

|                      |          |
|----------------------|----------|
| <b>SAR 1g (W/Kg)</b> | 0.439429 |
|----------------------|----------|

---

## Z Axis Scan



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## MEASUREMENT 12

Type: Phone measurement (Complete)

Date of measurement: 13/5/2010

Measurement duration: 14 minutes 19 seconds

Mobile Phone IMEI number: --

### **A. Experimental conditions.**

|                        |                              |
|------------------------|------------------------------|
| <b>Phantom File</b>    | zinf15.txt, Adaptative 2 max |
| <b>Phantom</b>         | Left head                    |
| <b>Device Position</b> | Tilt                         |
| <b>Band</b>            | GSM1900                      |
| <b>Channels</b>        | High                         |
| <b>Signal</b>          | GSM                          |

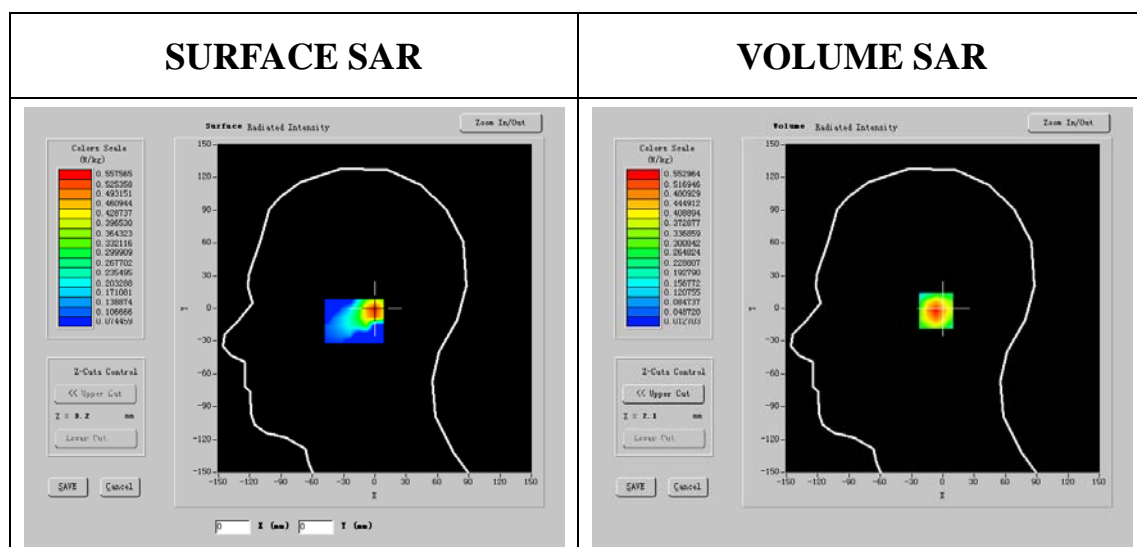
### **B. Instrumentations.**

---

|                         |   |
|-------------------------|---|
| <b>PC</b>               | HP (Pentium(R) V3.06GHz, SN:375052-AA1) |
| <b>Network Emulator</b> | R&S (CMU200, SN:B23-03291)              |
| <b>Voltmeter</b>        | Keithley (2000, SN:1015843)             |
| <b>Synthetizer</b>      | Agilent (E8257C, SN:MY43321570)         |
| <b>Amplifier</b>        | Mini-Circuits (ZHL-42, SN:110405)       |
| <b>Power Meter</b>      | Agilent (E4416A, SN:QB41292714)         |
| <b>Probe</b>            | Antennessa (SN:SN 11-09 EP100)          |
| <b>Phantom</b>          | Antennessa (SN:SN41_05_SAM29)           |
| <b>Liquid</b>           | Antennessa                              |

### C. SAR Measurement Results

|  |             |
|--|-------------|
| Frequency (MHz)                        | 1910.002076 |
| Relative permittivity (real part)      | 40.220203   |
| Relative permittivity (imaginary part) | 13.618100   |
| Conductivity (S/m)                     | 1.422415    |
| Variation (%)                          | -1.100000   |





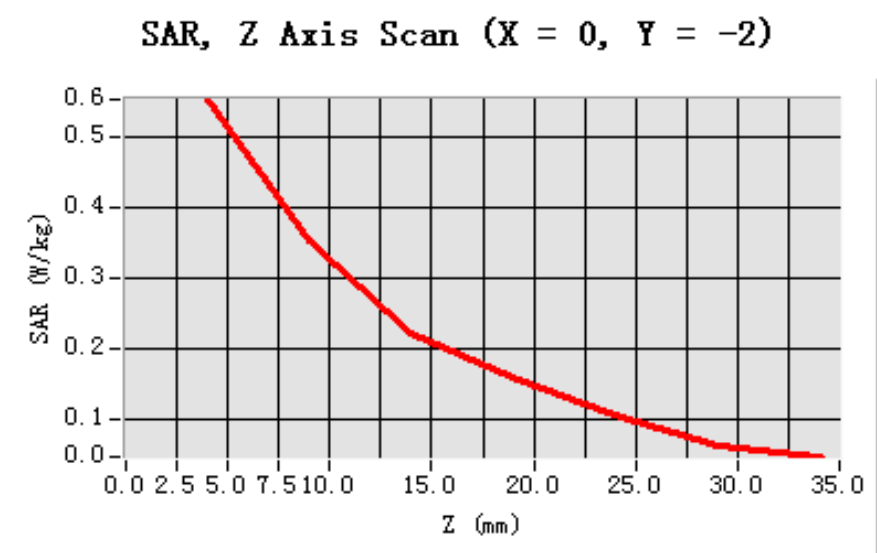
---

**Maximum location: X=0.00, Y=-2.00**

|                      |          |
|----------------------|----------|
| <b>SAR 1g (W/Kg)</b> | 0.452169 |
|----------------------|----------|

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## Z Axis Scan



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## **Face up with earphone**

### **MEASUREMENT 1**

Type: Phone measurement (Complete)

Date of measurement: 13/5/2010

Measurement duration: 14 minutes 44 seconds

Mobile Phone IMEI number: --

#### **A. Experimental conditions.**

|                        |                                     |
|------------------------|-------------------------------------|
| <b>Phantom File</b>    | surf_sam_plan.txt, Adaptative 2 max |
| <b>Phantom</b>         | Validation plane                    |
| <b>Device Position</b> | Body                                |
| <b>Band</b>            | GSM1900                             |
| <b>Channels</b>        | Low                                 |
| <b>Signal</b>          | GSM                                 |

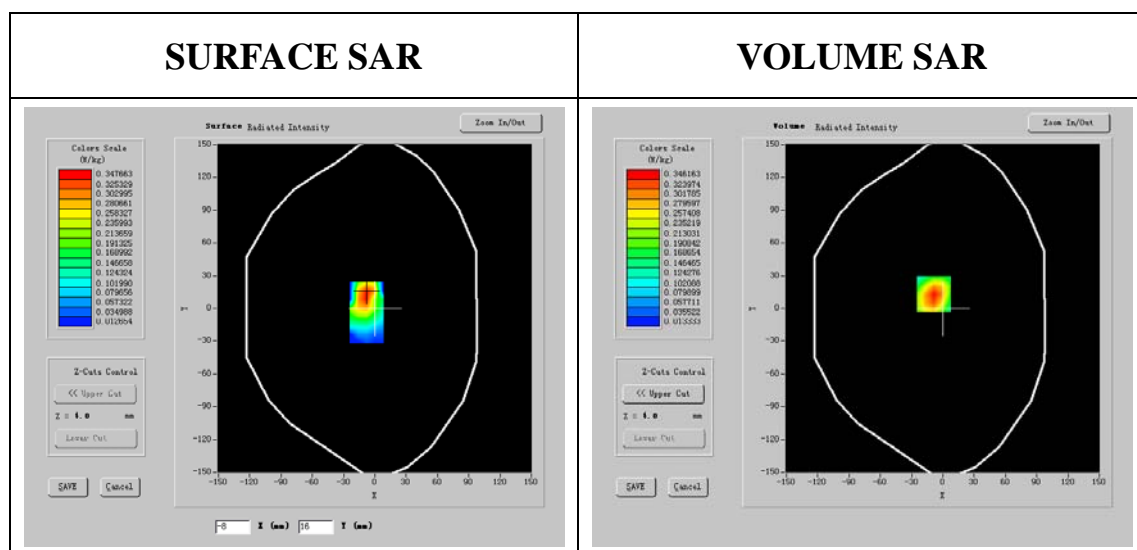
#### **B. Instrumentations.**

---

|                         |   |
|-------------------------|---|
| <b>PC</b>               | HP (Pentium(R) V3.06GHz, SN:375052-AA1) |
| <b>Network Emulator</b> | R&S (CMU200, SN:B23-03291)              |
| <b>Voltmeter</b>        | Keithley (2000, SN:1015843)             |
| <b>Synthetizer</b>      | Agilent (E8257C, SN:MY43321570)         |
| <b>Amplifier</b>        | Mini-Circuits (ZHL-42, SN:110405)       |
| <b>Power Meter</b>      | Agilent (E4416A, SN:QB41292714)         |
| <b>Probe</b>            | Antennessa (SN:SN 11-09 EP100)          |
| <b>Phantom</b>          | Antennessa (SN:SN41_05_SAM29)           |
| <b>Liquid</b>           | Antennessa                              |

## C. SAR Measurement Results

|   |             |
|---|-------------|
| <b>Frequency (MHz)</b>                        | 1850.200004 |
| <b>Relative permittivity (real part)</b>      | 53.310300   |
| <b>Relative permittivity (imaginary part)</b> | 13.526900   |
| <b>Conductivity (S/m)</b>                     | 1.510201    |
| <b>Variation (%)</b>                          | -0.100000   |



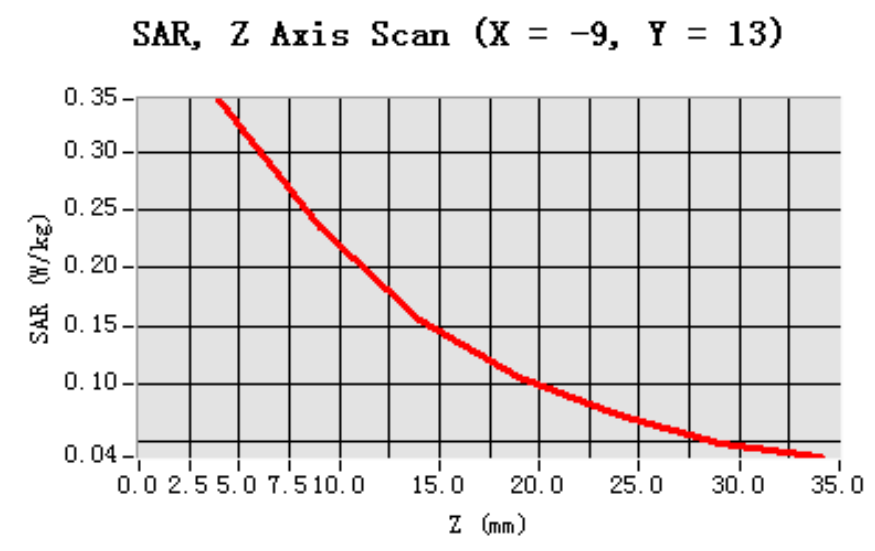
---

**Maximum location: X=-9.00, Y=13.00**

|                      |          |
|----------------------|----------|
| <b>SAR 1g (W/Kg)</b> | 0.353689 |
|----------------------|----------|

---

## Z Axis Scan



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## MEASUREMENT 2

Type: Phone measurement (Complete)

Date of measurement: 13/5/2010

Measurement duration: 14 minutes 44 seconds

Mobile Phone IMEI number: --

### **A. Experimental conditions.**

|                        |                                   |
|------------------------|-----------------------------------|
| <b>Phantom File</b>    | surf_sam_plan.txt, Adaptive 2 max |
| <b>Phantom</b>         | Validation plane                  |
| <b>Device Position</b> | Body                              |
| <b>Band</b>            | GSM1900                           |
| <b>Channels</b>        | Middle                            |
| <b>Signal</b>          | GSM                               |

### **B. Instrumentations.**

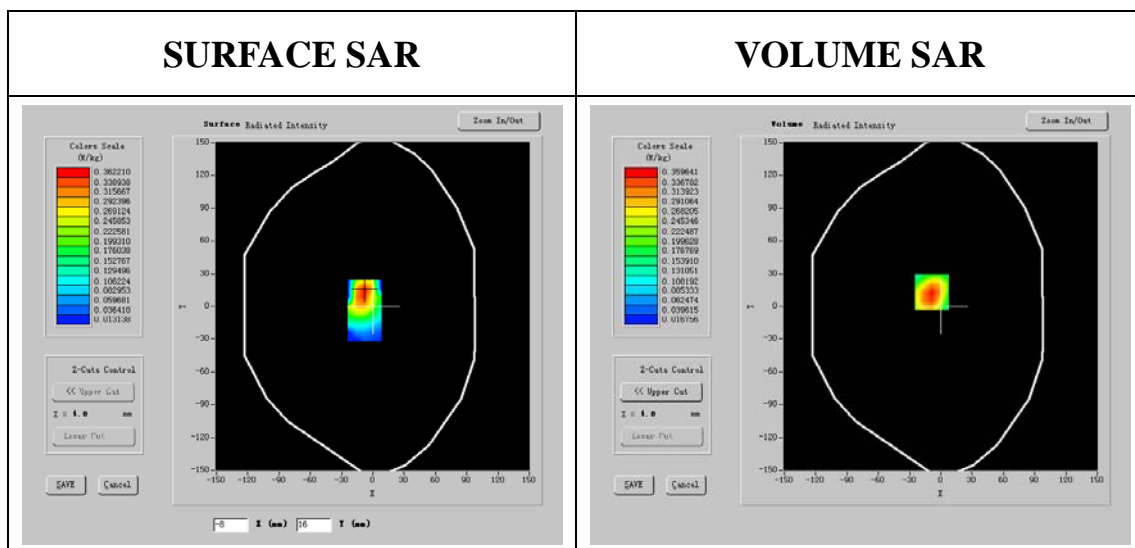


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|                         |   |
|-------------------------|---|
| <b>PC</b>               | HP (Pentium(R) V3.06GHz, SN:375052-AA1) |
| <b>Network Emulator</b> | R&S (CMU200, SN:B23-03291)              |
| <b>Voltmeter</b>        | Keithley (2000, SN:1015843)             |
| <b>Synthetizer</b>      | Agilent (E8257C, SN:MY43321570)         |
| <b>Amplifier</b>        | Mini-Circuits (ZHL-42, SN:110405)       |
| <b>Power Meter</b>      | Agilent (E4416A, SN:QB41292714)         |
| <b>Probe</b>            | Antennessa (SN:SN 11-09 EP100)          |
| <b>Phantom</b>          | Antennessa (SN:SN41_05_SAM29)           |
| <b>Liquid</b>           | Antennessa                              |

## C. SAR Measurement Results

|   |             |
|---|-------------|
| <b>Frequency (MHz)</b>                        | 1880.000000 |
| <b>Relative permittivity (real part)</b>      | 52.941421   |
| <b>Relative permittivity (imaginary part)</b> | 13.792500   |
| <b>Conductivity (S/m)</b>                     | 1.511420    |
| <b>Variation (%)</b>                          | -0.500000   |



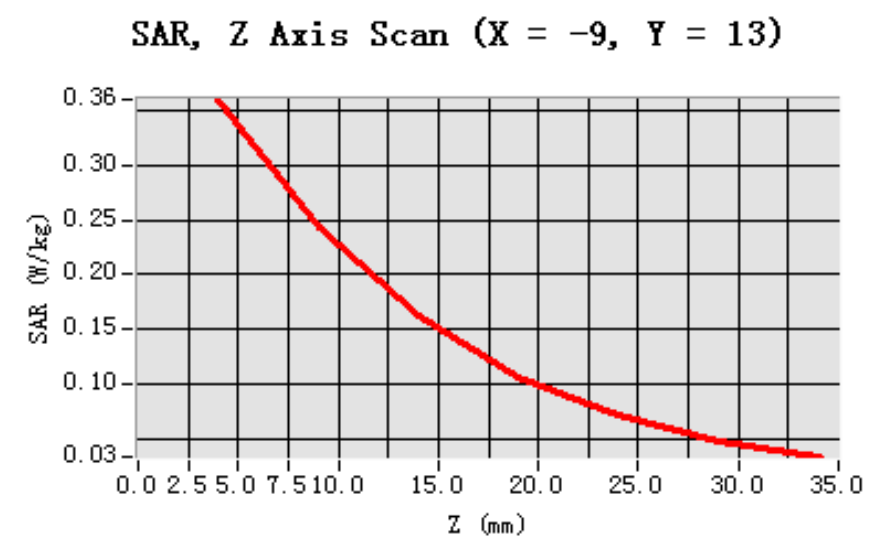
---

**Maximum location: X=-9.00, Y=13.00**

|                      |          |
|----------------------|----------|
| <b>SAR 1g (W/Kg)</b> | 0.310258 |
|----------------------|----------|

---

## Z Axis Scan



---

## MEASUREMENT 3

Type: Phone measurement (Complete)

Date of measurement: 13/5/2010

Measurement duration: 14 minutes 44 seconds

Mobile Phone IMEI number: --

### **A. Experimental conditions.**

|                        |                                     |
|------------------------|-------------------------------------|
| <b>Phantom File</b>    | surf_sam_plan.txt, Adaptative 2 max |
| <b>Phantom</b>         | Validation plane                    |
| <b>Device Position</b> | Body                                |
| <b>Band</b>            | GSM1900                             |
| <b>Channels</b>        | High                                |
| <b>Signal</b>          | GSM                                 |

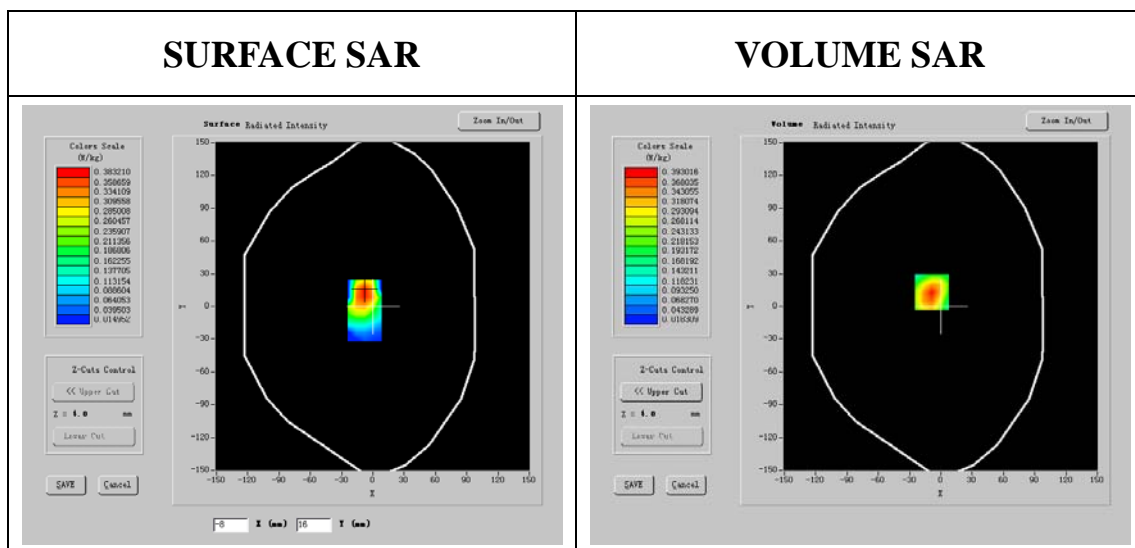
### **B. Instrumentations.**

---

|                         |   |
|-------------------------|---|
| <b>PC</b>               | HP (Pentium(R) V3.06GHz, SN:375052-AA1) |
| <b>Network Emulator</b> | R&S (CMU200, SN:B23-03291)              |
| <b>Voltmeter</b>        | Keithley (2000, SN:1015843)             |
| <b>Synthesizer</b>      | Agilent (E8257C, SN:MY43321570)         |
| <b>Amplifier</b>        | Mini-Circuits (ZHL-42, SN:110405)       |
| <b>Power Meter</b>      | Agilent (E4416A, SN:QB41292714)         |
| <b>Probe</b>            | Antennessa (SN:SN 11-09 EP100)          |
| <b>Phantom</b>          | Antennessa (SN:SN41_05_SAM29)           |
| <b>Liquid</b>           | Antennessa                              |

## C. SAR Measurement Results

|   |             |
|---|-------------|
| <b>Frequency (MHz)</b>                        | 1909.590210 |
| <b>Relative permittivity (real part)</b>      | 52.281410   |
| <b>Relative permittivity (imaginary part)</b> | 13.626320   |
| <b>Conductivity (S/m)</b>                     | 1.502125    |
| <b>Variation (%)</b>                          | -0.540000   |



---

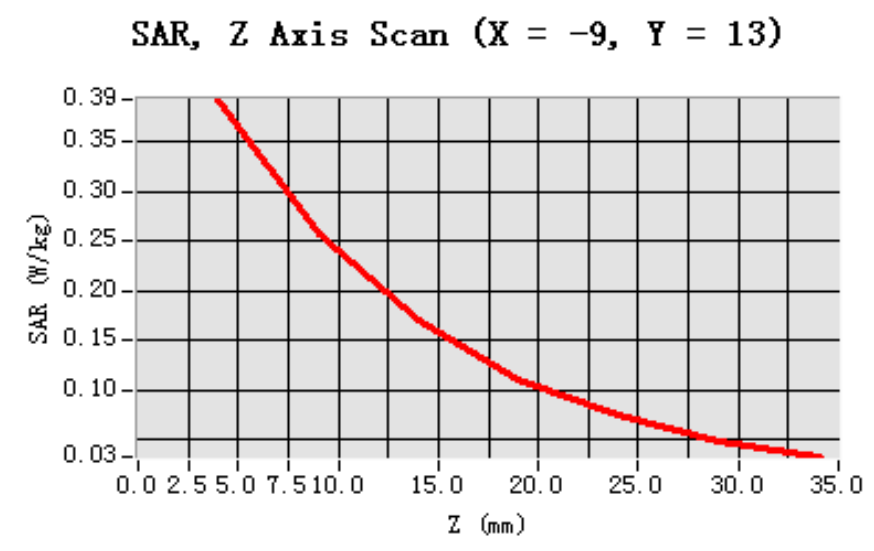
**Maximum location: X=-9.00, Y=13.00**

|                      |          |
|----------------------|----------|
| <b>SAR 1g (W/Kg)</b> | 0.368472 |
|----------------------|----------|



---

## Z Axis Scan



---

# Face down with earphone

## MEASUREMENT 1

Type: Phone measurement (Complete)

Date of measurement: 13/5/2010

Measurement duration: 14 minutes 44 seconds

Mobile Phone IMEI number: --

### **A. Experimental conditions.**

|                        |                                     |
|------------------------|-------------------------------------|
| <b>Phantom File</b>    | surf_sam_plan.txt, Adaptative 2 max |
| <b>Phantom</b>         | Validation plane                    |
| <b>Device Position</b> | Body                                |
| <b>Band</b>            | GSM1900                             |
| <b>Channels</b>        | Low                                 |
| <b>Signal</b>          | GSM                                 |

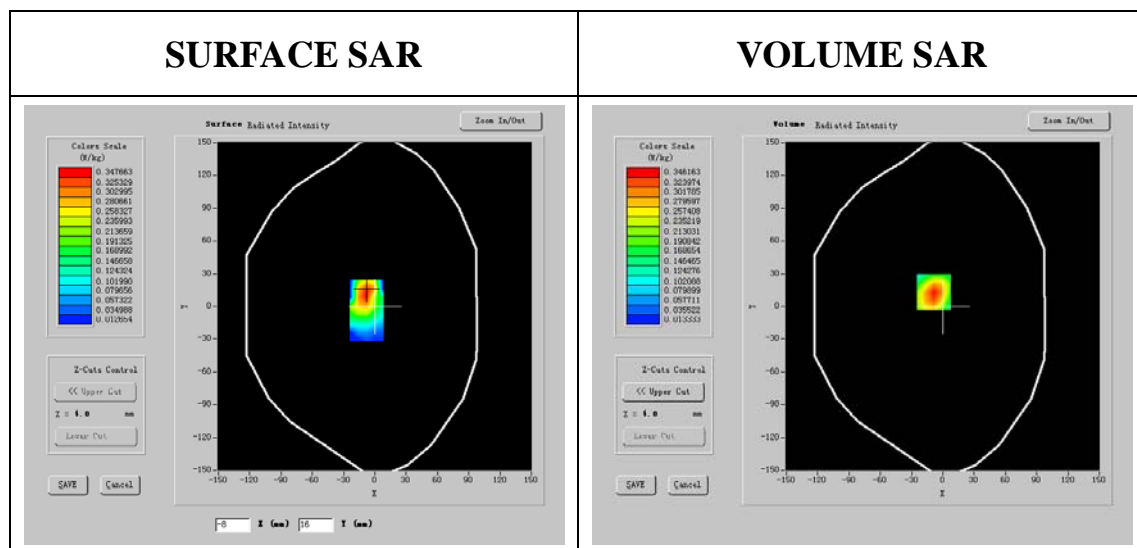
### **B. Instrumentations.**

---

|                         |   |
|-------------------------|---|
| <b>PC</b>               | HP (Pentium(R) V3.06GHz, SN:375052-AA1) |
| <b>Network Emulator</b> | R&S (CMU200, SN:B23-03291)              |
| <b>Voltmeter</b>        | Keithley (2000, SN:1015843)             |
| <b>Synthetizer</b>      | Agilent (E8257C, SN:MY43321570)         |
| <b>Amplifier</b>        | Mini-Circuits (ZHL-42, SN:110405)       |
| <b>Power Meter</b>      | Agilent (E4416A, SN:QB41292714)         |
| <b>Probe</b>            | Antennessa (SN:SN 11-09 EP100)          |
| <b>Phantom</b>          | Antennessa (SN:SN41_05_SAM29)           |
| <b>Liquid</b>           | Antennessa                              |

## C. SAR Measurement Results

|   |             |
|---|-------------|
| <b>Frequency (MHz)</b>                        | 1850.400024 |
| <b>Relative permittivity (real part)</b>      | 53.313000   |
| <b>Relative permittivity (imaginary part)</b> | 13.584900   |
| <b>Conductivity (S/m)</b>                     | 1.506528    |
| <b>Variation (%)</b>                          | -0.130000   |



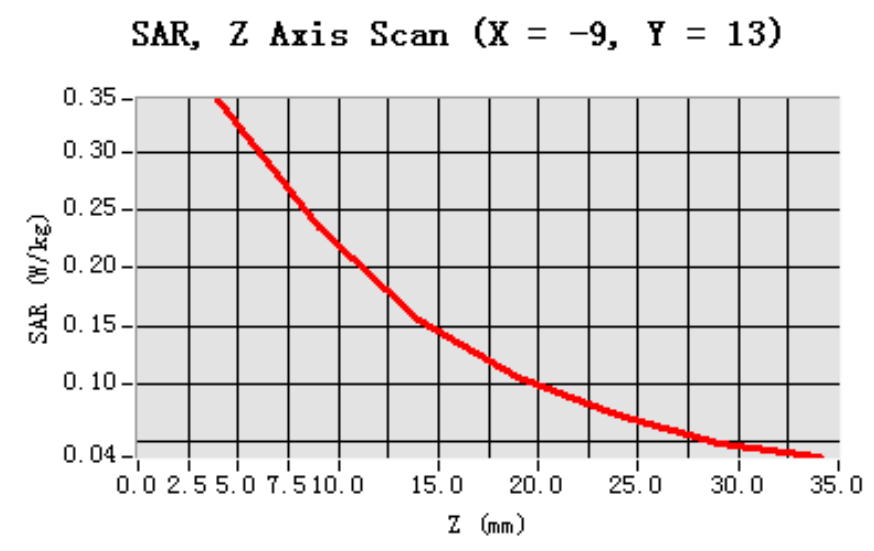
---

**Maximum location: X=-9.00, Y=13.00**

|                      |          |
|----------------------|----------|
| <b>SAR 1g (W/Kg)</b> | 0.322318 |
|----------------------|----------|

---

## Z Axis Scan



---

## MEASUREMENT 2

Type: Phone measurement (Complete)

Date of measurement: 13/5/2010

Measurement duration: 14 minutes 44 seconds

Mobile Phone IMEI number: --

### **A. Experimental conditions.**

|                        |                                   |
|------------------------|-----------------------------------|
| <b>Phantom File</b>    | surf_sam_plan.txt, Adaptive 2 max |
| <b>Phantom</b>         | Validation plane                  |
| <b>Device Position</b> | Body                              |
| <b>Band</b>            | GSM1900                           |
| <b>Channels</b>        | Middle                            |
| <b>Signal</b>          | GSM                               |

### **B. Instrumentations.**

---

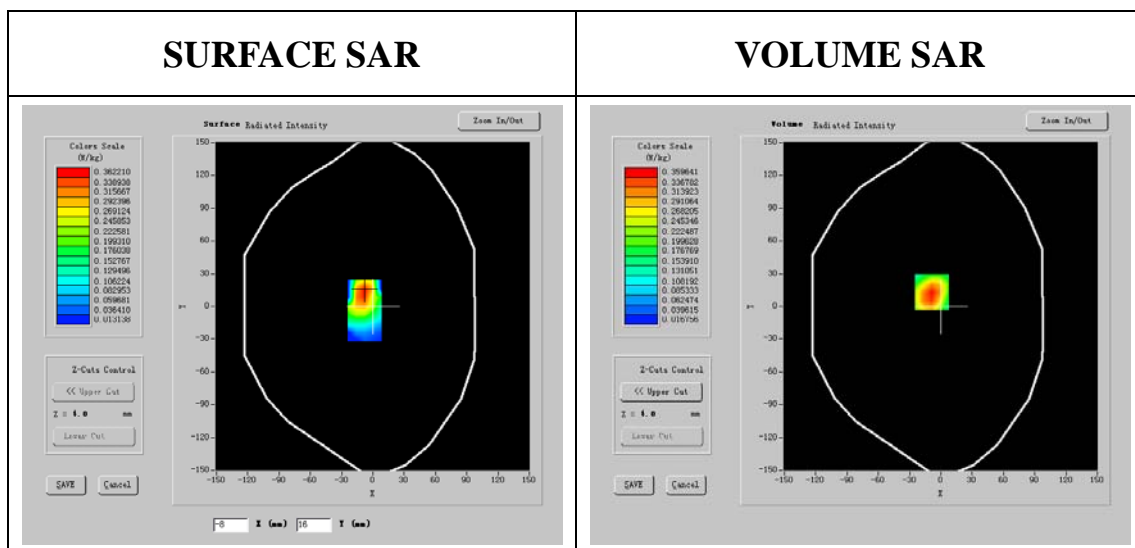
  

|                         |   |
|-------------------------|---|
| <b>PC</b>               | HP (Pentium(R) V3.06GHz, SN:375052-AA1) |
| <b>Network Emulator</b> | R&S (CMU200, SN:B23-03291)              |
| <b>Voltmeter</b>        | Keithley (2000, SN:1015843)             |
| <b>Synthesizer</b>      | Agilent (E8257C, SN:MY43321570)         |
| <b>Amplifier</b>        | Mini-Circuits (ZHL-42, SN:110405)       |
| <b>Power Meter</b>      | Agilent (E4416A, SN:QB41292714)         |
| <b>Probe</b>            | Antennessa (SN:SN 11-09 EP100)          |
| <b>Phantom</b>          | Antennessa (SN:SN41_05_SAM29)           |
| <b>Liquid</b>           | Antennessa                              |



## C. SAR Measurement Results

|   |             |
|---|-------------|
| <b>Frequency (MHz)</b>                        | 1880.000000 |
| <b>Relative permittivity (real part)</b>      | 52.993001   |
| <b>Relative permittivity (imaginary part)</b> | 13.813800   |
| <b>Conductivity (S/m)</b>                     | 1.512775    |
| <b>Variation (%)</b>                          | -0.700000   |



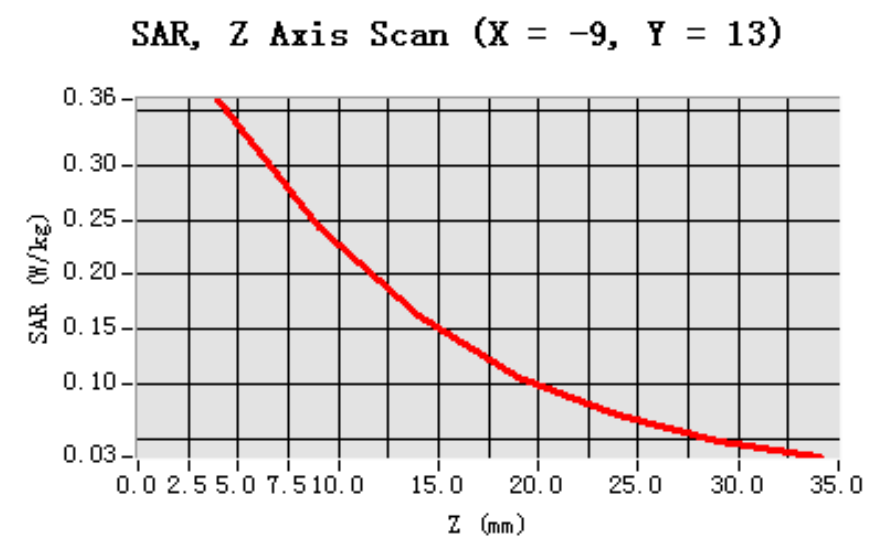
---

**Maximum location: X=-9.00, Y=13.00**

|                      |          |
|----------------------|----------|
| <b>SAR 1g (W/Kg)</b> | 0.329280 |
|----------------------|----------|

---

## Z Axis Scan



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## MEASUREMENT 3

Type: Phone measurement (Complete)

Date of measurement: 13/5/2010

Measurement duration: 14 minutes 44 seconds

Mobile Phone IMEI number: --

### **A. Experimental conditions.**

|                        |                                     |
|------------------------|-------------------------------------|
| <b>Phantom File</b>    | surf_sam_plan.txt, Adaptative 2 max |
| <b>Phantom</b>         | Validation plane                    |
| <b>Device Position</b> | Body                                |
| <b>Band</b>            | GSM1900                             |
| <b>Channels</b>        | High                                |
| <b>Signal</b>          | GSM                                 |

### **B. Instrumentations.**

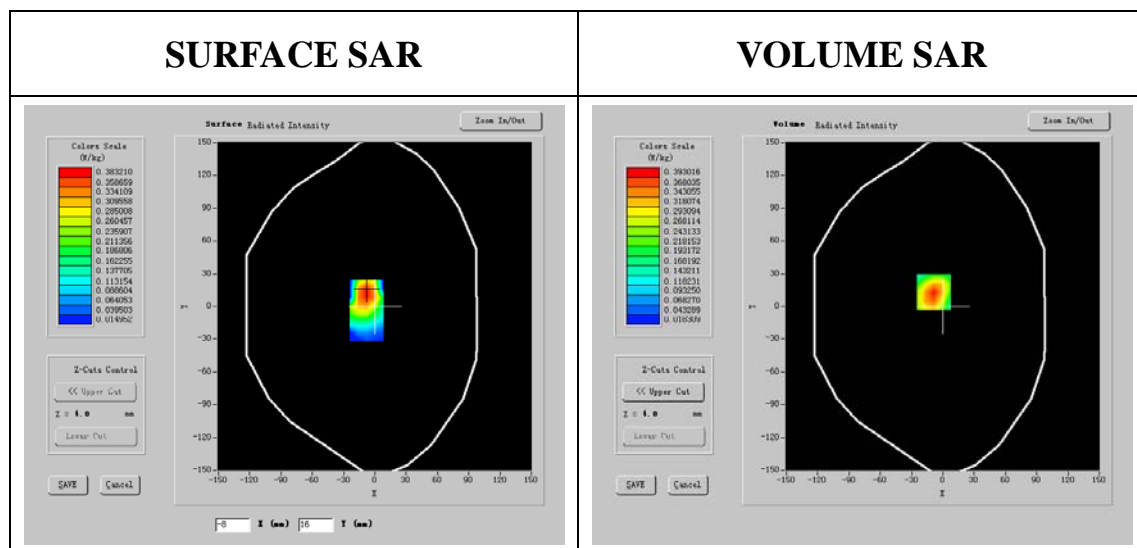
---

|                         |   |
|-------------------------|---|
| <b>PC</b>               | HP (Pentium(R) V3.06GHz, SN:375052-AA1) |
| <b>Network Emulator</b> | R&S (CMU200, SN:B23-03291)              |
| <b>Voltmeter</b>        | Keithley (2000, SN:1015843)             |
| <b>Synthesizer</b>      | Agilent (E8257C, SN:MY43321570)         |
| <b>Amplifier</b>        | Mini-Circuits (ZHL-42, SN:110405)       |
| <b>Power Meter</b>      | Agilent (E4416A, SN:QB41292714)         |
| <b>Probe</b>            | Antennessa (SN:SN 11-09 EP100)          |
| <b>Phantom</b>          | Antennessa (SN:SN41_05_SAM29)           |
| <b>Liquid</b>           | Antennessa                              |

## C. SAR Measurement Results

|   |             |
|---|-------------|
| <b>Frequency (MHz)</b>                        | 1909.599976 |
| <b>Relative permittivity (real part)</b>      | 52.285999   |
| <b>Relative permittivity (imaginary part)</b> | 13.669900   |
| <b>Conductivity (S/m)</b>                     | 1.510225    |
| <b>Variation (%)</b>                          | -0.600000   |



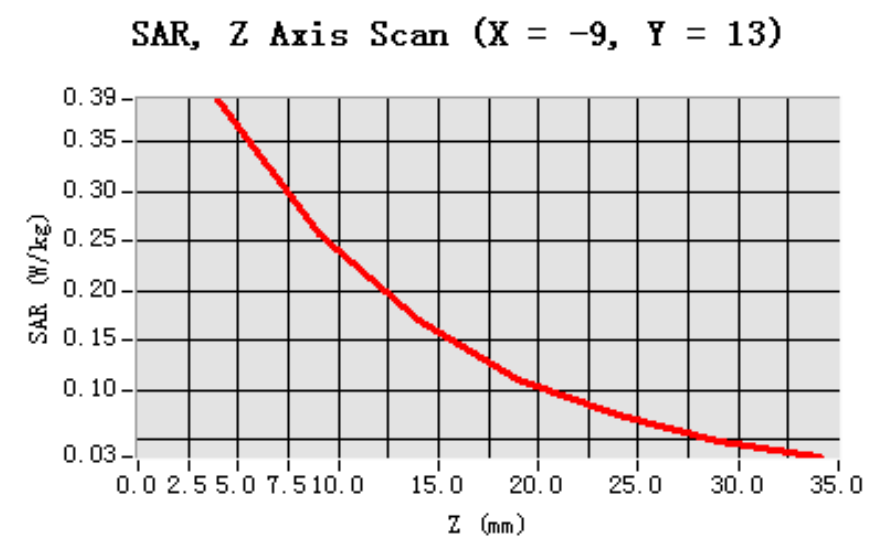
---

**Maximum location: X=-9.00, Y=13.00**

|                      |          |
|----------------------|----------|
| <b>SAR 1g (W/Kg)</b> | 0.348231 |
|----------------------|----------|

---

## Z Axis Scan





---

# Face up without earphone

## MEASUREMENT 1

Type: Phone measurement (Complete)

Date of measurement: 13/5/2010

Measurement duration: 14 minutes 44 seconds

Mobile Phone IMEI number: --

### **A. Experimental conditions.**

|                        |                                     |
|------------------------|-------------------------------------|
| <b>Phantom File</b>    | surf_sam_plan.txt, Adaptative 2 max |
| <b>Phantom</b>         | Validation plane                    |
| <b>Device Position</b> | Body                                |
| <b>Band</b>            | GSM1900                             |
| <b>Channels</b>        | Low                                 |
| <b>Signal</b>          | GSM                                 |

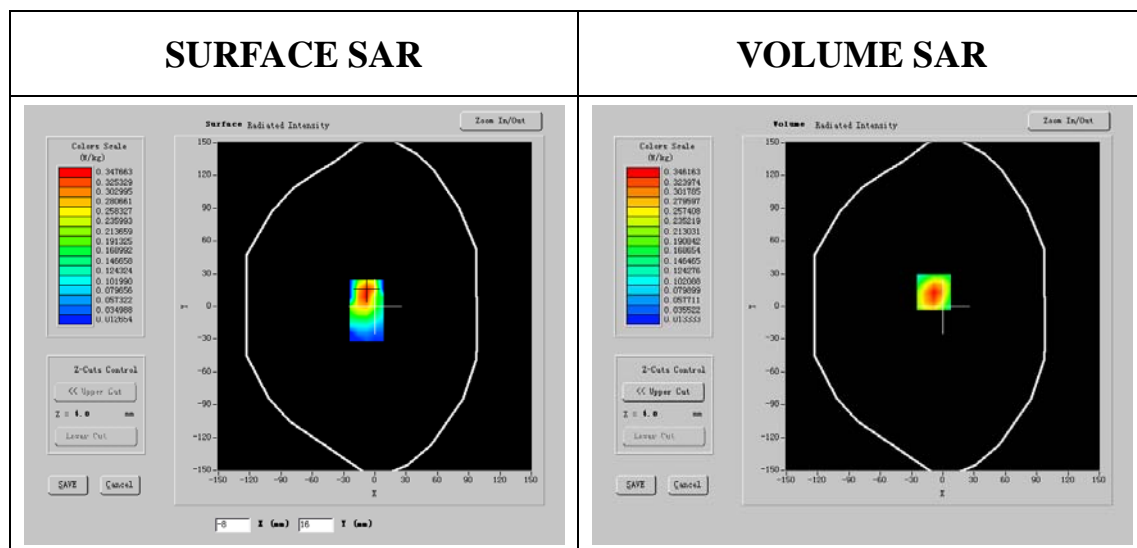
### **B. Instrumentations.**

---

|                         |   |
|-------------------------|---|
| <b>PC</b>               | HP (Pentium(R) V3.06GHz, SN:375052-AA1) |
| <b>Network Emulator</b> | R&S (CMU200, SN:B23-03291)              |
| <b>Voltmeter</b>        | Keithley (2000, SN:1015843)             |
| <b>Synthetizer</b>      | Agilent (E8257C, SN:MY43321570)         |
| <b>Amplifier</b>        | Mini-Circuits (ZHL-42, SN:110405)       |
| <b>Power Meter</b>      | Agilent (E4416A, SN:QB41292714)         |
| <b>Probe</b>            | Antennessa (SN:SN 11-09 EP100)          |
| <b>Phantom</b>          | Antennessa (SN:SN41_05_SAM29)           |
| <b>Liquid</b>           | Antennessa                              |

## C. SAR Measurement Results

|   |             |
|---|-------------|
| <b>Frequency (MHz)</b>                        | 1850.400024 |
| <b>Relative permittivity (real part)</b>      | 53.310210   |
| <b>Relative permittivity (imaginary part)</b> | 13.585320   |
| <b>Conductivity (S/m)</b>                     | 1.501028    |
| <b>Variation (%)</b>                          | -0.100000   |



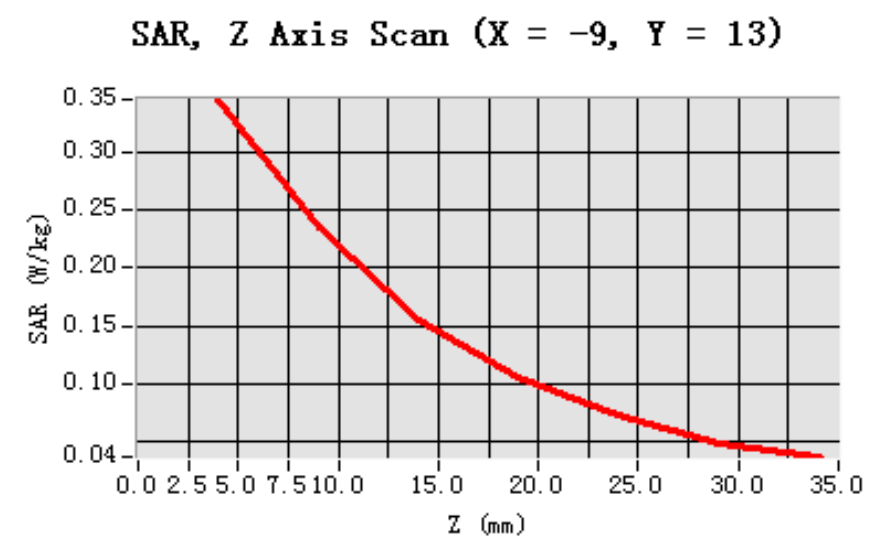
---

**Maximum location: X=-9.00, Y=13.00**

|                      |          |
|----------------------|----------|
| <b>SAR 1g (W/Kg)</b> | 0.321018 |
|----------------------|----------|

---

## Z Axis Scan



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## MEASUREMENT 2

Type: Phone measurement (Complete)

Date of measurement: 13/5/2010

Measurement duration: 14 minutes 44 seconds

Mobile Phone IMEI number: --

### **A. Experimental conditions.**

|                        |                                   |
|------------------------|-----------------------------------|
| <b>Phantom File</b>    | surf_sam_plan.txt, Adaptive 2 max |
| <b>Phantom</b>         | Validation plane                  |
| <b>Device Position</b> | Body                              |
| <b>Band</b>            | GSM1900                           |
| <b>Channels</b>        | Middle                            |
| <b>Signal</b>          | GSM                               |

### **B. Instrumentations.**

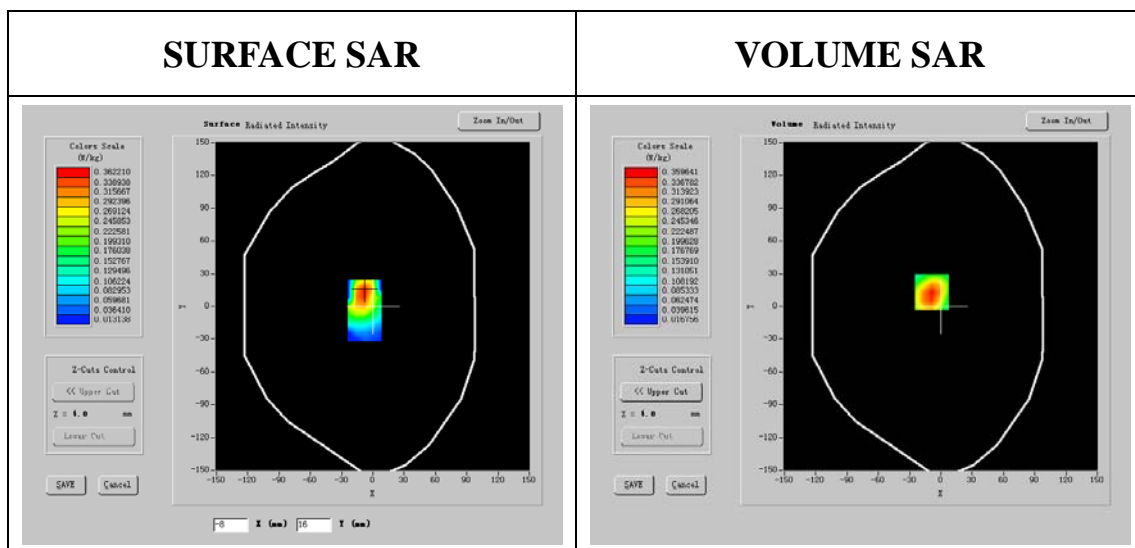
---

|                         |   |
|-------------------------|---|
| <b>PC</b>               | HP (Pentium(R) V3.06GHz, SN:375052-AA1) |
| <b>Network Emulator</b> | R&S (CMU200, SN:B23-03291)              |
| <b>Voltmeter</b>        | Keithley (2000, SN:1015843)             |
| <b>Synthesizer</b>      | Agilent (E8257C, SN:MY43321570)         |
| <b>Amplifier</b>        | Mini-Circuits (ZHL-42, SN:110405)       |
| <b>Power Meter</b>      | Agilent (E4416A, SN:QB41292714)         |
| <b>Probe</b>            | Antennessa (SN:SN 11-09 EP100)          |
| <b>Phantom</b>          | Antennessa (SN:SN41_05_SAM29)           |
| <b>Liquid</b>           | Antennessa                              |

## C. SAR Measurement Results

|   |             |
|---|-------------|
| <b>Frequency (MHz)</b>                        | 1880.000000 |
| <b>Relative permittivity (real part)</b>      | 52.847101   |
| <b>Relative permittivity (imaginary part)</b> | 13.752100   |
| <b>Conductivity (S/m)</b>                     | 1.510275    |
| <b>Variation (%)</b>                          | -0.100000   |





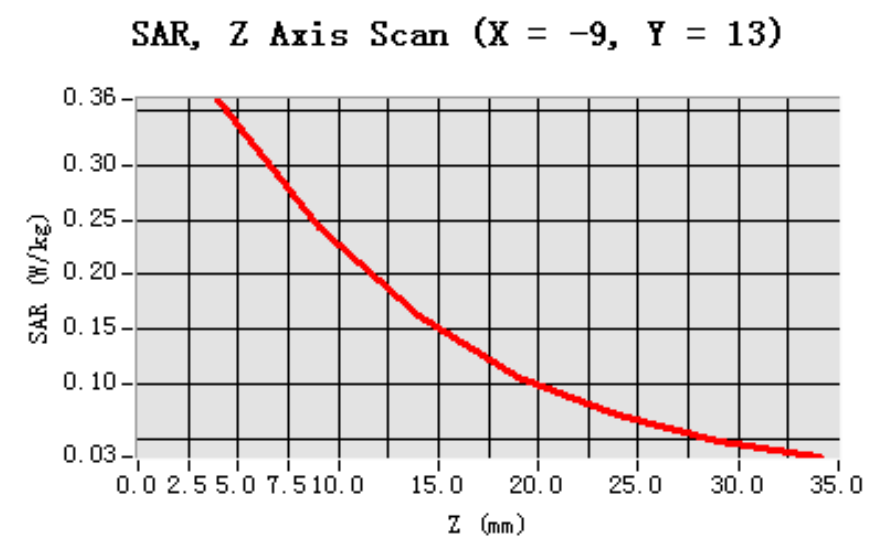
---

**Maximum location: X=-9.00, Y=13.00**

|                      |          |
|----------------------|----------|
| <b>SAR 1g (W/Kg)</b> | 0.330120 |
|----------------------|----------|

---

## Z Axis Scan



---

## MEASUREMENT 3

Type: Phone measurement (Complete)

Date of measurement: 13/5/2010

Measurement duration: 14 minutes 44 seconds

Mobile Phone IMEI number: --

### **A. Experimental conditions.**

|                        |                                   |
|------------------------|-----------------------------------|
| <b>Phantom File</b>    | surf_sam_plan.txt, Adaptive 2 max |
| <b>Phantom</b>         | Validation plane                  |
| <b>Device Position</b> | Body                              |
| <b>Band</b>            | GSM1900                           |
| <b>Channels</b>        | High                              |
| <b>Signal</b>          | GSM                               |

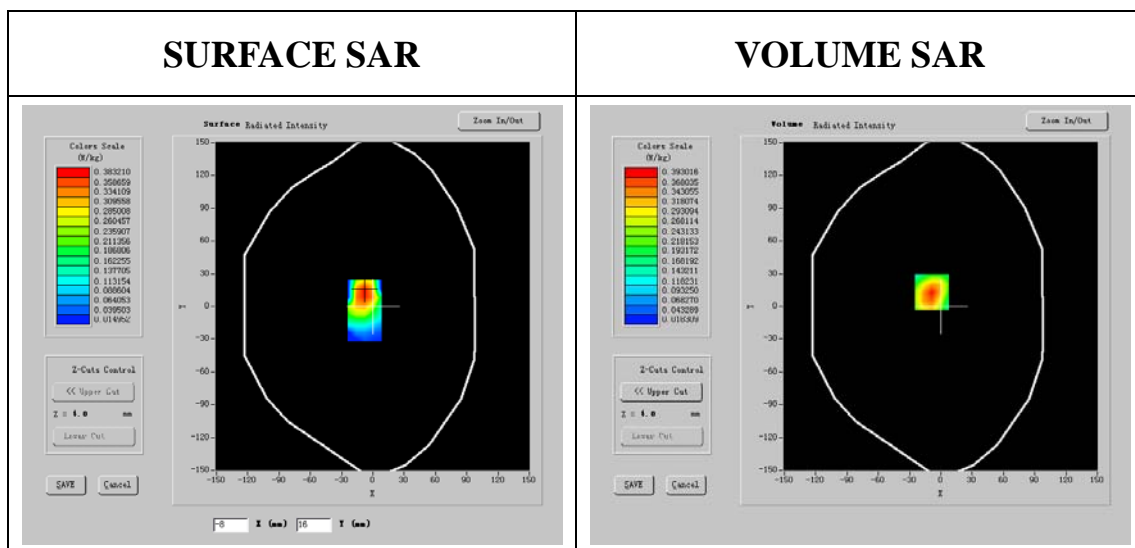
### **B. Instrumentations.**

---

|                         |   |
|-------------------------|---|
| <b>PC</b>               | HP (Pentium(R) V3.06GHz, SN:375052-AA1) |
| <b>Network Emulator</b> | R&S (CMU200, SN:B23-03291)              |
| <b>Voltmeter</b>        | Keithley (2000, SN:1015843)             |
| <b>Synthetizer</b>      | Agilent (E8257C, SN:MY43321570)         |
| <b>Amplifier</b>        | Mini-Circuits (ZHL-42, SN:110405)       |
| <b>Power Meter</b>      | Agilent (E4416A, SN:QB41292714)         |
| <b>Probe</b>            | Antennessa (SN:SN 11-09 EP100)          |
| <b>Phantom</b>          | Antennessa (SN:SN41_05_SAM29)           |
| <b>Liquid</b>           | Antennessa                              |

## C. SAR Measurement Results

|   |             |
|---|-------------|
| <b>Frequency (MHz)</b>                        | 1909.599976 |
| <b>Relative permittivity (real part)</b>      | 52.313029   |
| <b>Relative permittivity (imaginary part)</b> | 13.6510000  |
| <b>Conductivity (S/m)</b>                     | 1.502125    |
| <b>Variation (%)</b>                          | -0.600000   |



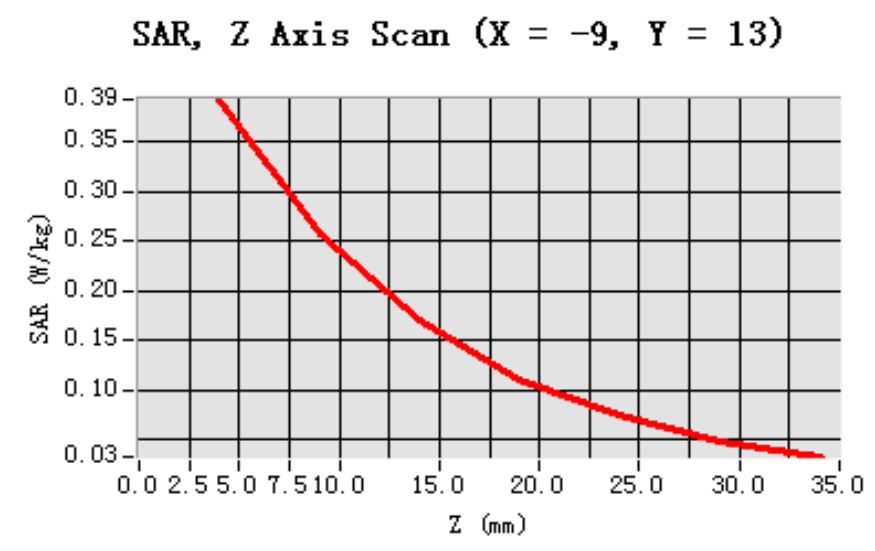
---

**Maximum location: X=-9.00, Y=13.00**

|                      |          |
|----------------------|----------|
| <b>SAR 1g (W/Kg)</b> | 0.345231 |
|----------------------|----------|

---

## Z Axis Scan



---

# Face down without earphone

## MEASUREMENT 1

Type: Phone measurement (Complete)

Date of measurement: 13/5/2010

Measurement duration: 14 minutes 44 seconds

Mobile Phone IMEI number: --

### **A. Experimental conditions.**

|                        |                                     |
|------------------------|-------------------------------------|
| <b>Phantom File</b>    | surf_sam_plan.txt, Adaptative 2 max |
| <b>Phantom</b>         | Validation plane                    |
| <b>Device Position</b> | Body                                |
| <b>Band</b>            | GSM1900                             |
| <b>Channels</b>        | Low                                 |
| <b>Signal</b>          | GSM                                 |

### **B. Instrumentations.**

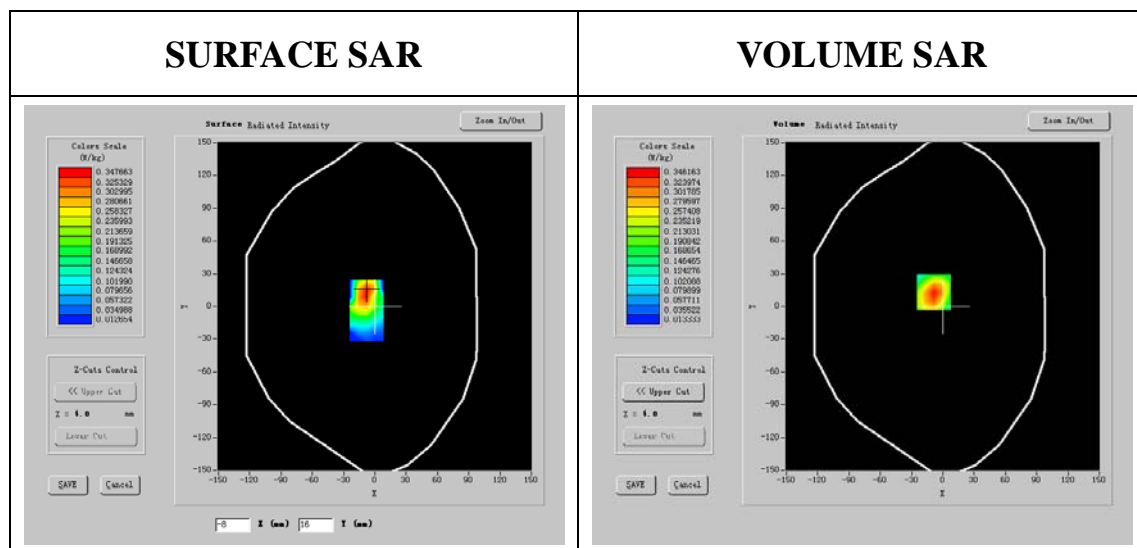


---

|                         |   |
|-------------------------|---|
| <b>PC</b>               | HP (Pentium(R) V3.06GHz, SN:375052-AA1) |
| <b>Network Emulator</b> | R&S (CMU200, SN:B23-03291)              |
| <b>Voltmeter</b>        | Keithley (2000, SN:1015843)             |
| <b>Synthesizer</b>      | Agilent (E8257C, SN:MY43321570)         |
| <b>Amplifier</b>        | Mini-Circuits (ZHL-42, SN:110405)       |
| <b>Power Meter</b>      | Agilent (E4416A, SN:QB41292714)         |
| <b>Probe</b>            | Antennessa (SN:SN 11-09 EP100)          |
| <b>Phantom</b>          | Antennessa (SN:SN41_05_SAM29)           |
| <b>Liquid</b>           | Antennessa                              |

## C. SAR Measurement Results

|   |             |
|---|-------------|
| <b>Frequency (MHz)</b>                        | 1850.400024 |
| <b>Relative permittivity (real part)</b>      | 53.310210   |
| <b>Relative permittivity (imaginary part)</b> | 13.587020   |
| <b>Conductivity (S/m)</b>                     | 1.501248    |
| <b>Variation (%)</b>                          | -0.100000   |



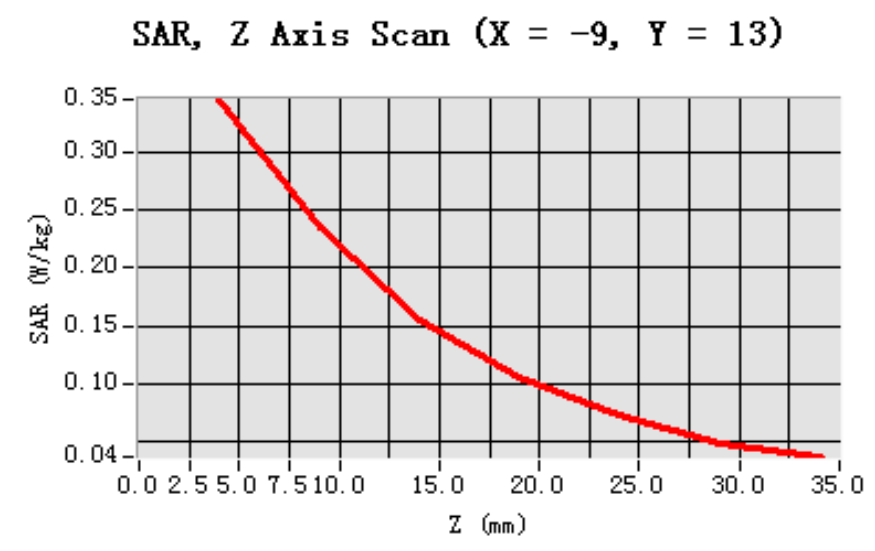
---

**Maximum location: X=-9.00, Y=13.00**

|                      |          |
|----------------------|----------|
| <b>SAR 1g (W/Kg)</b> | 0.323148 |
|----------------------|----------|

---

## Z Axis Scan



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## MEASUREMENT 2

Type: Phone measurement (Complete)

Date of measurement: 13/5/2010

Measurement duration: 14 minutes 44 seconds

Mobile Phone IMEI number: --

### **A. Experimental conditions.**

|                        |                                   |
|------------------------|-----------------------------------|
| <b>Phantom File</b>    | surf_sam_plan.txt, Adaptive 2 max |
| <b>Phantom</b>         | Validation plane                  |
| <b>Device Position</b> | Body                              |
| <b>Band</b>            | GSM1900                           |
| <b>Channels</b>        | Middle                            |
| <b>Signal</b>          | GSM                               |

### **B. Instrumentations.**

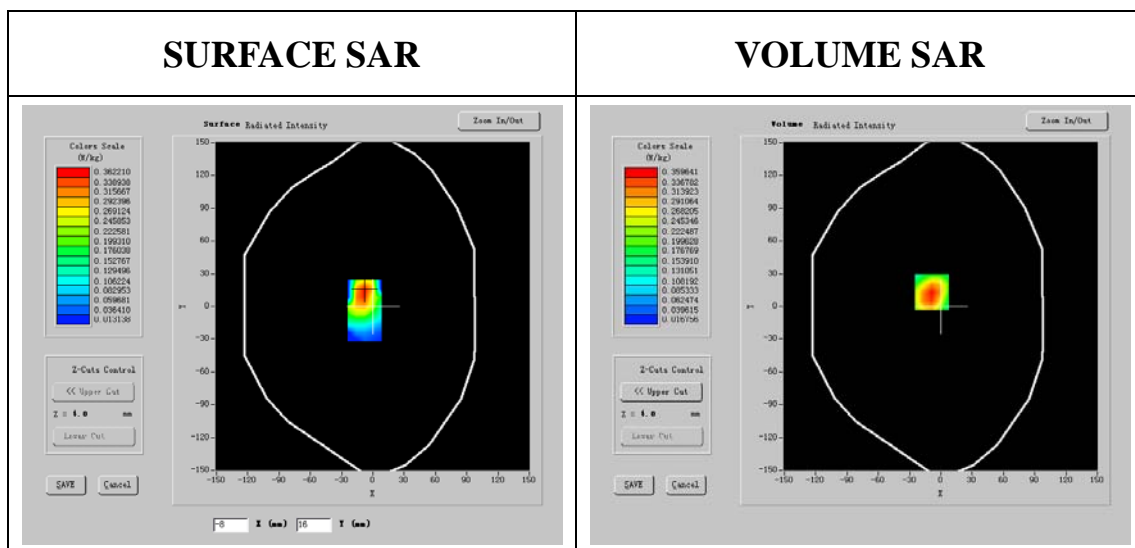
---

|                         |   |
|-------------------------|---|
| <b>PC</b>               | HP (Pentium(R) V3.06GHz, SN:375052-AA1) |
| <b>Network Emulator</b> | R&S (CMU200, SN:B23-03291)              |
| <b>Voltmeter</b>        | Keithley (2000, SN:1015843)             |
| <b>Synthesizer</b>      | Agilent (E8257C, SN:MY43321570)         |
| <b>Amplifier</b>        | Mini-Circuits (ZHL-42, SN:110405)       |
| <b>Power Meter</b>      | Agilent (E4416A, SN:QB41292714)         |
| <b>Probe</b>            | Antennessa (SN:SN 11-09 EP100)          |
| <b>Phantom</b>          | Antennessa (SN:SN41_05_SAM29)           |
| <b>Liquid</b>           | Antennessa                              |

## C. SAR Measurement Results

|   |             |
|---|-------------|
| <b>Frequency (MHz)</b>                        | 1880.000000 |
| <b>Relative permittivity (real part)</b>      | 52.874001   |
| <b>Relative permittivity (imaginary part)</b> | 13.752100   |
| <b>Conductivity (S/m)</b>                     | 1.502175    |
| <b>Variation (%)</b>                          | -0.100000   |



---

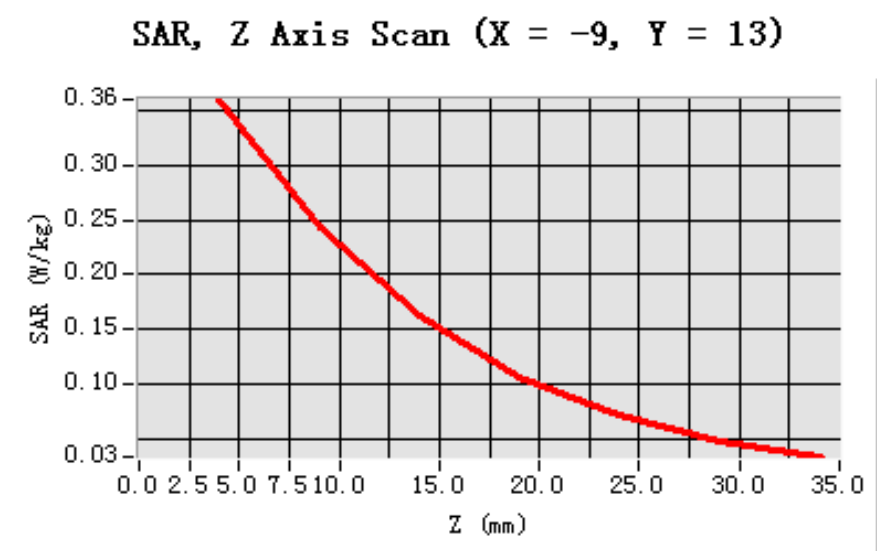
**Maximum location: X=-9.00, Y=13.00**

|                      |          |
|----------------------|----------|
| <b>SAR 1g (W/Kg)</b> | 0.331210 |
|----------------------|----------|



---

## Z Axis Scan



---

## MEASUREMENT 3

Type: Phone measurement (Complete)

Date of measurement: 13/5/2010

Measurement duration: 14 minutes 44 seconds

Mobile Phone IMEI number: --

### **A. Experimental conditions.**

|                        |                                     |
|------------------------|-------------------------------------|
| <b>Phantom File</b>    | surf_sam_plan.txt, Adaptative 2 max |
| <b>Phantom</b>         | Validation plane                    |
| <b>Device Position</b> | Body                                |
| <b>Band</b>            | GSM1900                             |
| <b>Channels</b>        | High                                |
| <b>Signal</b>          | GSM                                 |

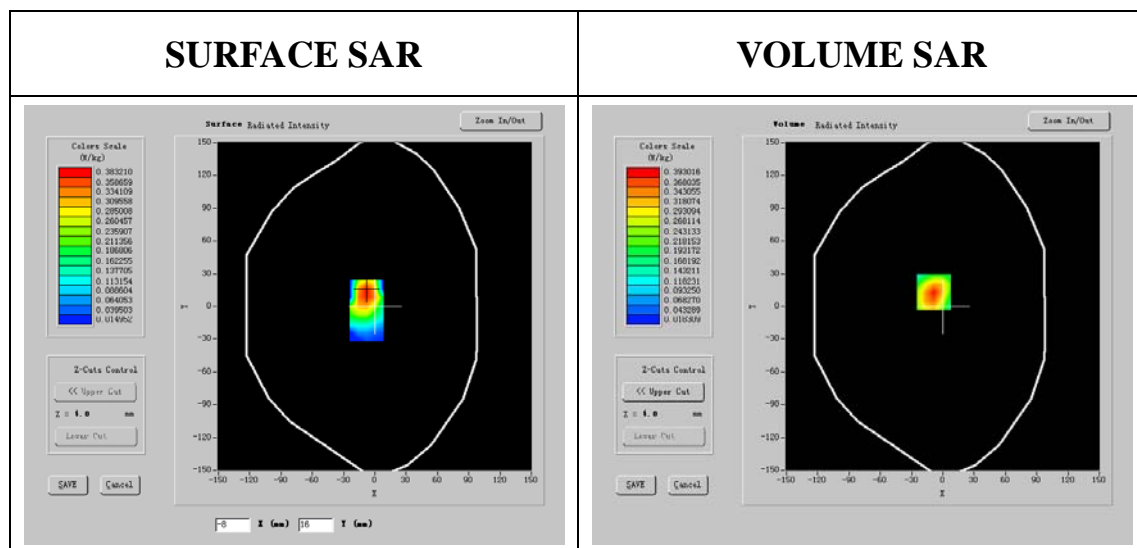
### **B. Instrumentations.**

---

|                         |   |
|-------------------------|---|
| <b>PC</b>               | HP (Pentium(R) V3.06GHz, SN:375052-AA1) |
| <b>Network Emulator</b> | R&S (CMU200, SN:B23-03291)              |
| <b>Voltmeter</b>        | Keithley (2000, SN:1015843)             |
| <b>Synthetizer</b>      | Agilent (E8257C, SN:MY43321570)         |
| <b>Amplifier</b>        | Mini-Circuits (ZHL-42, SN:110405)       |
| <b>Power Meter</b>      | Agilent (E4416A, SN:QB41292714)         |
| <b>Probe</b>            | Antennessa (SN:SN 11-09 EP100)          |
| <b>Phantom</b>          | Antennessa (SN:SN41_05_SAM29)           |
| <b>Liquid</b>           | Antennessa                              |

## C. SAR Measurement Results

|   |             |
|---|-------------|
| <b>Frequency (MHz)</b>                        | 1909.599976 |
| <b>Relative permittivity (real part)</b>      | 52.302579   |
| <b>Relative permittivity (imaginary part)</b> | 13.614000   |
| <b>Conductivity (S/m)</b>                     | 1.508325    |
| <b>Variation (%)</b>                          | -0.600000   |



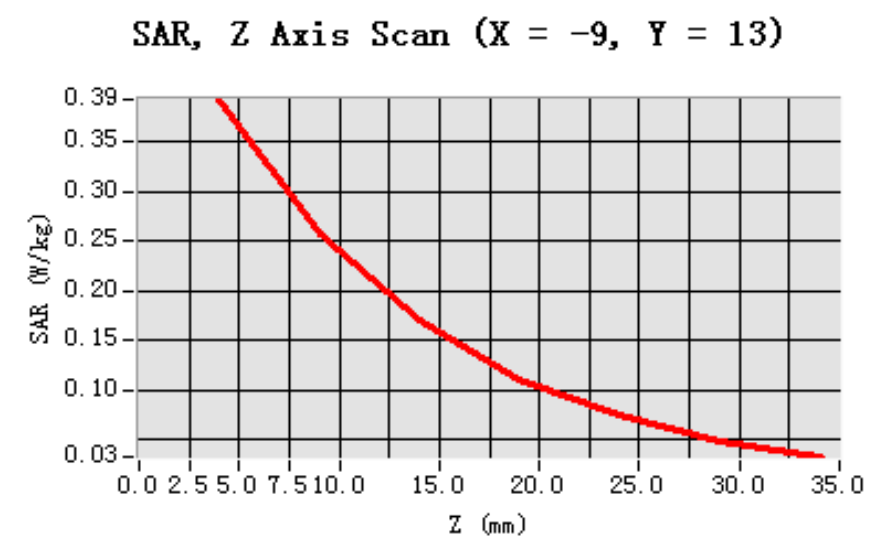
---

**Maximum location: X=-9.00, Y=13.00**

|                      |          |
|----------------------|----------|
| <b>SAR 1g (W/Kg)</b> | 0.352011 |
|----------------------|----------|

---

## Z Axis Scan



---

## GPRS 850

### I. RESULTS

| <u>TYPE</u>       | <u>BAND</u> | <u>PARAMETERS</u>  |
|-------------------|-------------|--|
| <u>Noise</u>      | --          | --   |
| <u>Validation</u> | --          | --   |
| <u>Phone</u>      | GPRS850     | <u>Measurement 1:</u> Validation Plane with Body device position on Low Channel in GPRS mode<br><u>Measurement 2:</u> Validation Plane with Body device position on Middle Channel in GPRS mode<br><u>Measurement 3:</u> Validation Plane with Body device position on High Channel in GPRS mode |

---

## Face up with earphone

### **MEASUREMENT 1**

Type: Phone measurement (Complete)

Date of measurement: 13/5/2010

Measurement duration: 14 minutes 29 seconds

Mobile Phone IMEI number:

#### **A. Experimental conditions.**

|                        |                                   |
|------------------------|-----------------------------------|
| <b>Phantom File</b>    | surf_sam_plan.txt, Adaptive 2 max |
| <b>Phantom</b>         | Validation plane                  |
| <b>Device Position</b> | Body                              |
| <b>Band</b>            | GPRS850                           |
| <b>Channels</b>        | Low                               |
| <b>Signal</b>          | GPRS                              |



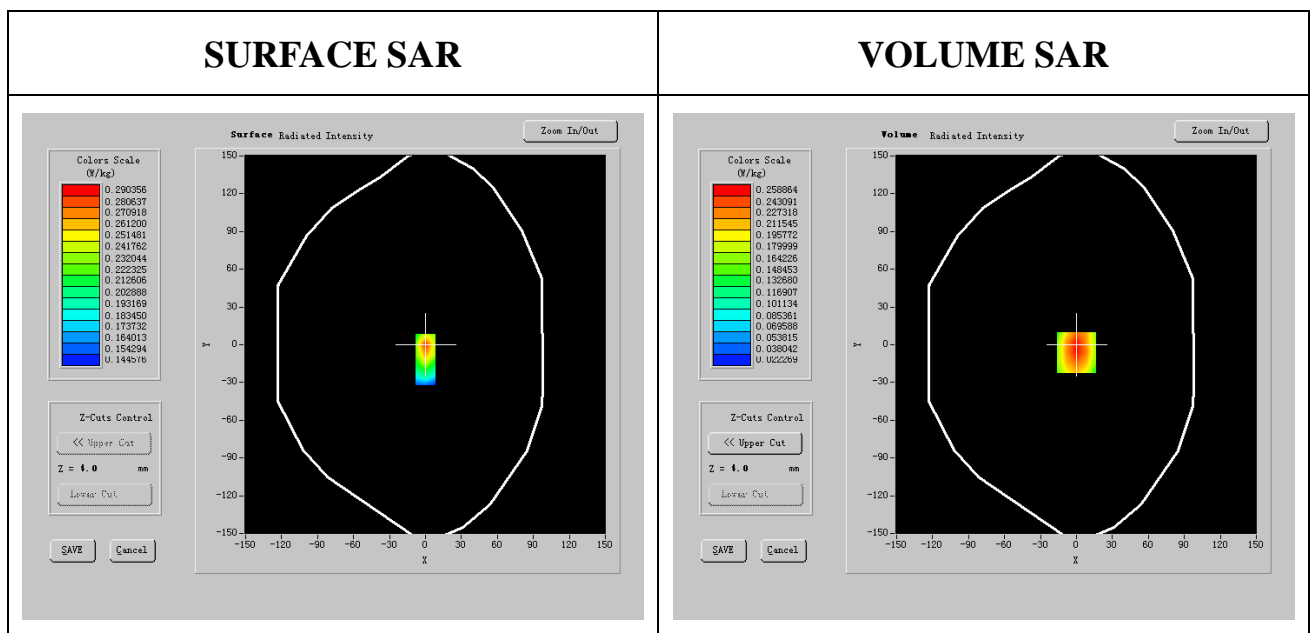
---

## **B. Instrumentations.**

|                         |  |
|-------------------------|--|
| <b>PC</b>               | HP (Pentium(R) V 3.06GHz, SN:375052-AA1) |
| <b>Network Emulator</b> | R&S (CMU200, SN:B23-03291)               |
| <b>Voltmeter</b>        | Keithley (2000, SN:1015843)              |
| <b>Synthesizer</b>      | Agilent (E8257C, SN:MY43321570)          |
| <b>Amplifier</b>        | Mini-Circuits (ZHL-42, SN:110405)        |
| <b>Power Meter</b>      | Agilent (E4416A, SN:QB41292714)          |
| <b>Probe</b>            | Antennessa (SN:SN_1109_EP_100)           |
| <b>Phantom</b>          | Antennessa (SN:SN41_05_SAM29)            |
| <b>Liquid</b>           | Antennessa                               |

## C. SAR Measurement Results

|   |            |
|---|------------|
| <b>Frequency (MHz)</b>                        | 824.200012 |
| <b>Relative permittivity (real part)</b>      | 55.541230  |
| <b>Relative permittivity (imaginary part)</b> | 21.653210  |
| <b>Conductivity (S/m)</b>                     | 0.956320   |
| <b>Variation (%)</b>                          | -0.200000  |



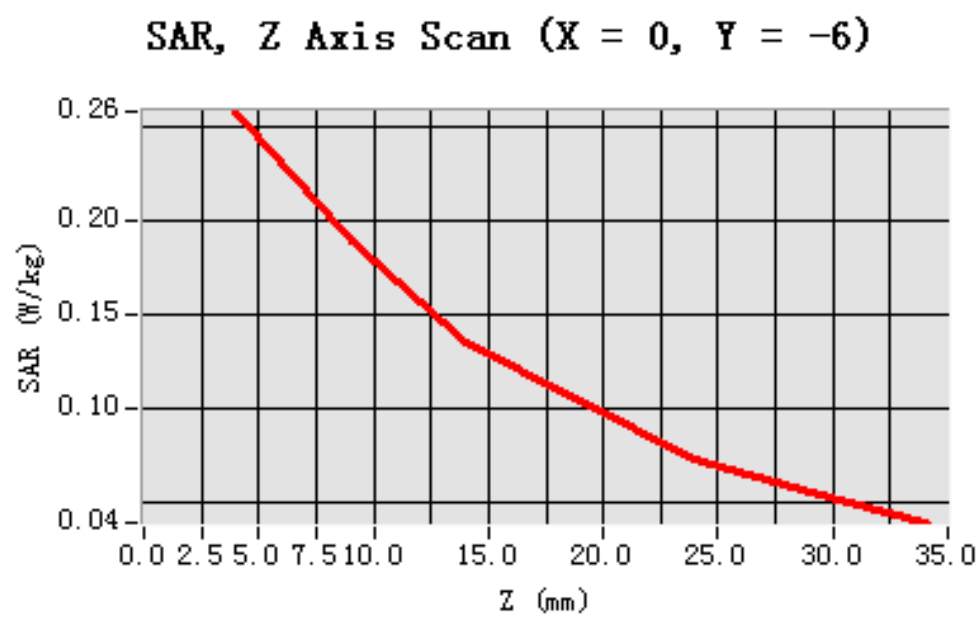
---

**Maximum location: X=0.00, Y=-6.00**

|                      |          |
|----------------------|----------|
| <b>SAR 1g (W/Kg)</b> | 0.283122 |
|----------------------|----------|

---

### Z Axis Scan



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## MEASUREMENT 2

Type: Phone measurement (Complete)

Date of measurement: 13/5/2010

Measurement duration: 14 minutes 29 seconds

Mobile Phone IMEI number:

### **A. Experimental conditions.**

|                        |                                   |
|------------------------|-----------------------------------|
| <b>Phantom File</b>    | surf_sam_plan.txt, Adaptive 2 max |
| <b>Phantom</b>         | Validation plane                  |
| <b>Device Position</b> | Body                              |
| <b>Band</b>            | GPRS850                           |
| <b>Channels</b>        | Middle                            |
| <b>Signal</b>          | GPRS                              |

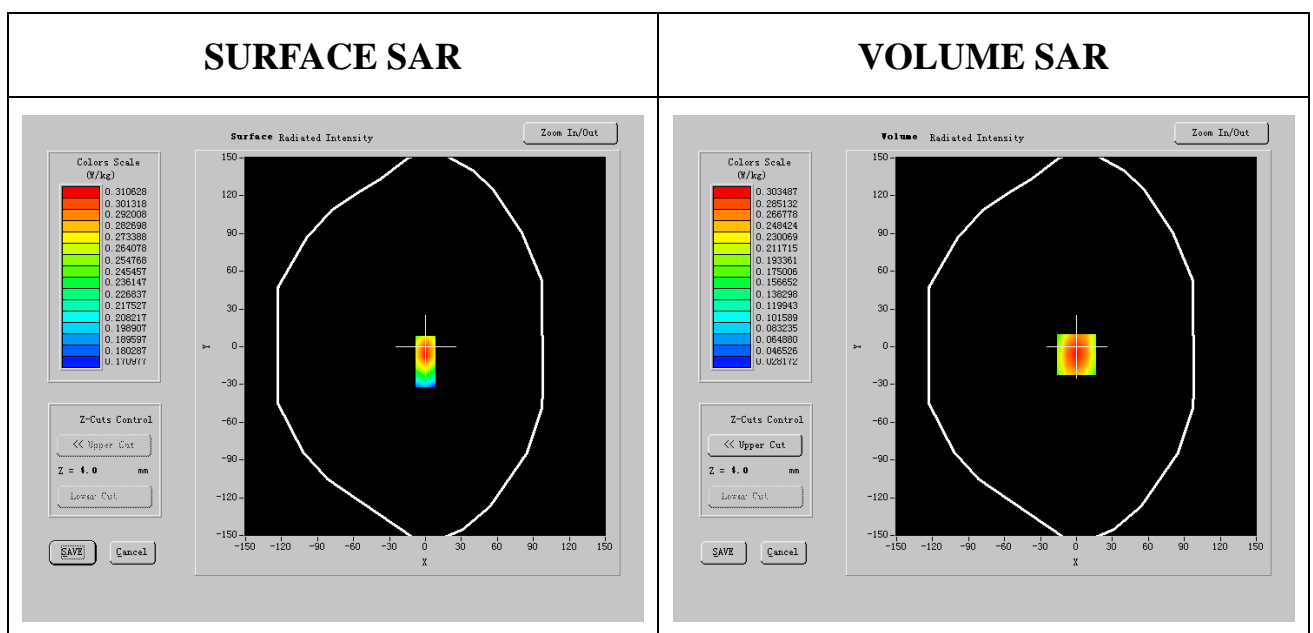
---

## **B. Instrumentations.**

|                         |  |
|-------------------------|--|
| <b>PC</b>               | HP (Pentium(R) V 3.06GHz, SN:375052-AA1) |
| <b>Network Emulator</b> | R&S (CMU200, SN:B23-03291)               |
| <b>Voltmeter</b>        | Keithley (2000, SN:1015843)              |
| <b>Synthesizer</b>      | Agilent (E8257C, SN:MY43321570)          |
| <b>Amplifier</b>        | Mini-Circuits (ZHL-42, SN:110405)        |
| <b>Power Meter</b>      | Agilent (E4416A, SN:QB41292714)          |
| <b>Probe</b>            | Antennessa (SN:SN_1109_EP_100)           |
| <b>Phantom</b>          | Antennessa (SN:SN41_05_SAM29)            |
| <b>Liquid</b>           | Antennessa                               |

## C. SAR Measurement Results

|   |            |
|---|------------|
| <b>Frequency (MHz)</b>                        | 836.600004 |
| <b>Relative permittivity (real part)</b>      | 55.512029  |
| <b>Relative permittivity (imaginary part)</b> | 21.810209  |
| <b>Conductivity (S/m)</b>                     | 0.920212   |
| <b>Variation (%)</b>                          | -0.120000  |



---

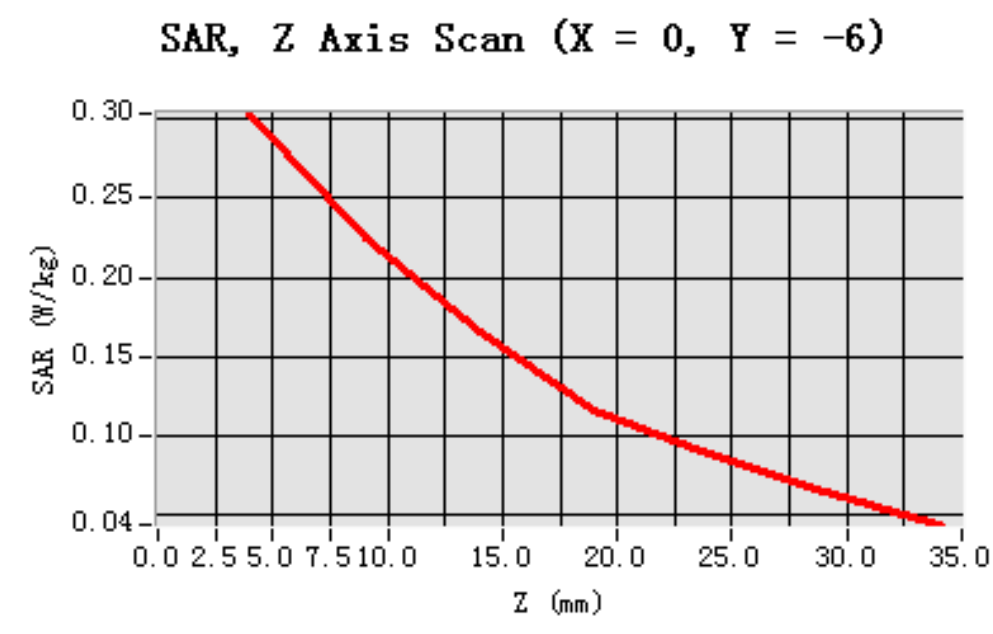
**Maximum location: X=0.00, Y=-6.00**

|                      |          |
|----------------------|----------|
| <b>SAR 1g (W/Kg)</b> | 0.356213 |
|----------------------|----------|



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## Z Axis Scan



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## MEASUREMENT 3

Type: Phone measurement (Complete)

Date of measurement: 13/5/2010

Measurement duration: 14 minutes 29 seconds

Mobile Phone IMEI number:

### **A. Experimental conditions.**

|                        |                                   |
|------------------------|-----------------------------------|
| <b>Phantom File</b>    | surf_sam_plan.txt, Adaptive 2 max |
| <b>Phantom</b>         | Validation plane                  |
| <b>Device Position</b> | Body                              |
| <b>Band</b>            | GPRS850                           |
| <b>Channels</b>        | High                              |
| <b>Signal</b>          | GPRS                              |

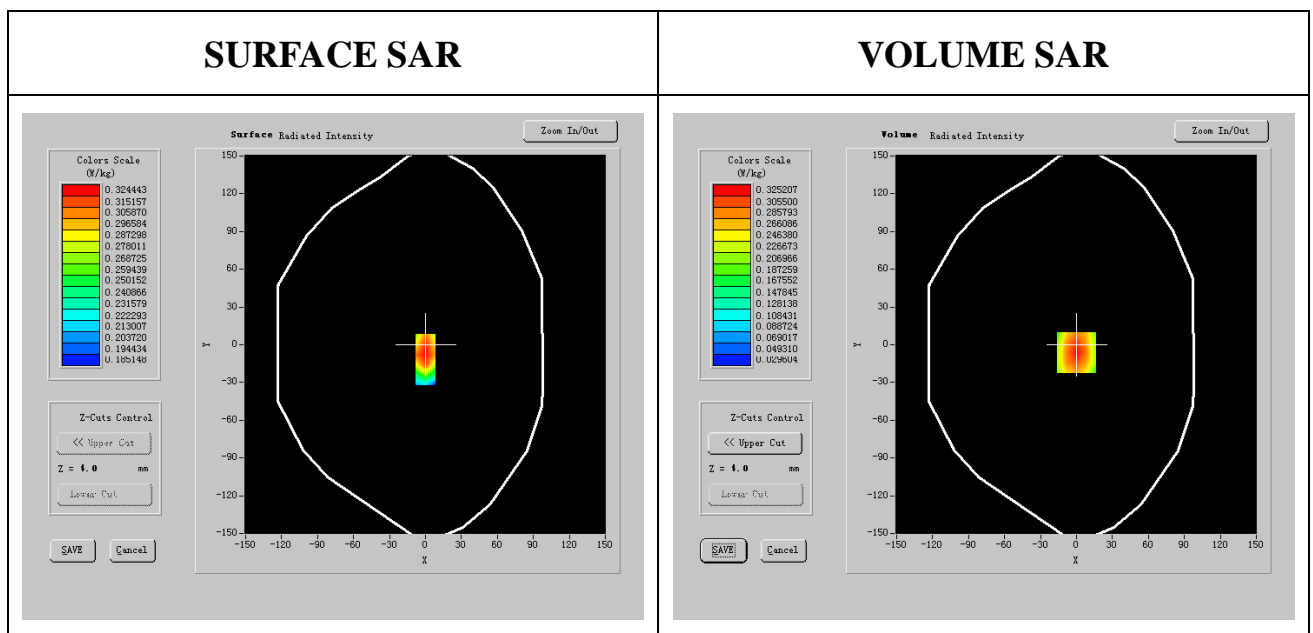
### **B. Instrumentations.**

---

|                         |  |
|-------------------------|--|
| <b>PC</b>               | HP (Pentium(R) V 3.06GHz, SN:375052-AA1) |
| <b>Network Emulator</b> | R&S (CMU200, SN:B23-03291)               |
| <b>Voltmeter</b>        | Keithley (2000, SN:1015843)              |
| <b>Synthetizer</b>      | Agilent (E8257C, SN:MY43321570)          |
| <b>Amplifier</b>        | Mini-Circuits (ZHL-42, SN:110405)        |
| <b>Power Meter</b>      | Agilent (E4416A, SN:QB41292714)          |
| <b>Probe</b>            | Antennessa (SN:SN_1109_EP_100)           |
| <b>Phantom</b>          | Antennessa (SN:SN41_05_SAM29)            |
| <b>Liquid</b>           | Antennessa                               |

## C. SAR Measurement Results

|   |            |
|---|------------|
| <b>Frequency (MHz)</b>                        | 848.799001 |
| <b>Relative permittivity (real part)</b>      | 55.533220  |
| <b>Relative permittivity (imaginary part)</b> | 21.721053  |
| <b>Conductivity (S/m)</b>                     | 0.967452   |
| <b>Variation (%)</b>                          | -0.200000  |



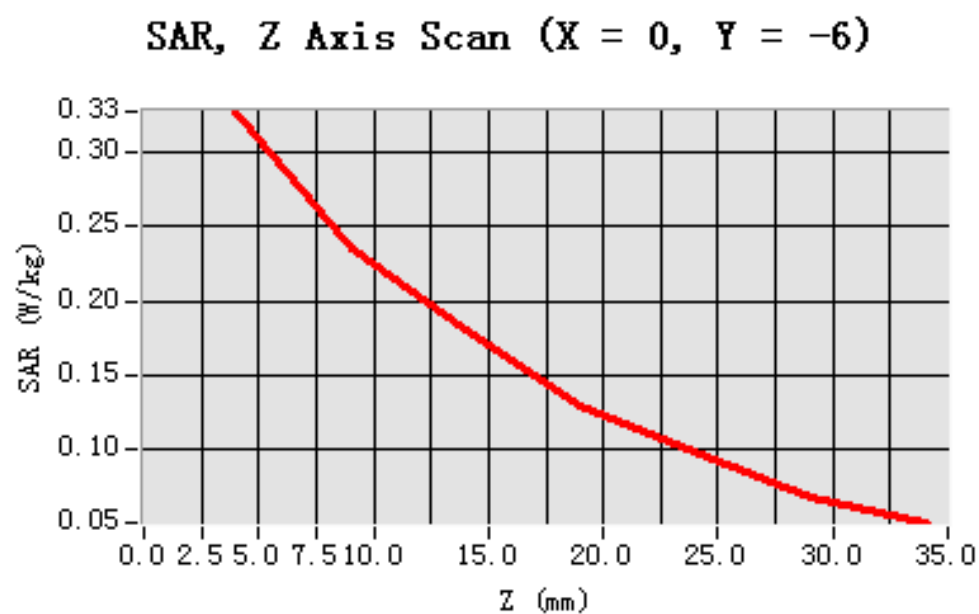
---

**Maximum location: X=0.00, Y=-6.00**

|                      |          |
|----------------------|----------|
| <b>SAR 1g (W/Kg)</b> | 0.348472 |
|----------------------|----------|

---

## Z Axis Scan



---

# Face down with earphone

## MEASUREMENT 1

Type: Phone measurement (Complete)

Date of measurement: 13/5/2010

Measurement duration: 14 minutes 29 seconds

Mobile Phone IMEI number:

### **A. Experimental conditions.**

|                        |                                   |
|------------------------|-----------------------------------|
| <b>Phantom File</b>    | surf_sam_plan.txt, Adaptive 2 max |
| <b>Phantom</b>         | Validation plane                  |
| <b>Device Position</b> | Body                              |
| <b>Band</b>            | GPRS850                           |
| <b>Channels</b>        | Low                               |
| <b>Signal</b>          | GPRS                              |

---

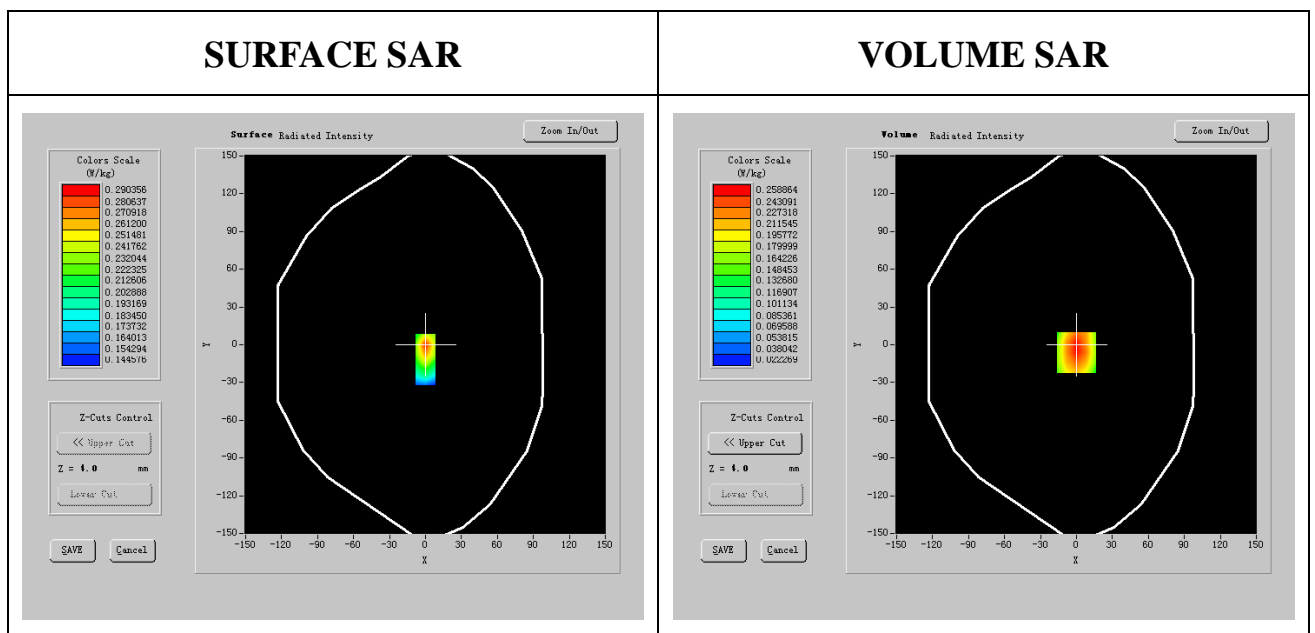
## **B. Instrumentations.**

|                         |  |
|-------------------------|--|
| <b>PC</b>               | HP (Pentium(R) V 3.06GHz, SN:375052-AA1) |
| <b>Network Emulator</b> | R&S (CMU200, SN:B23-03291)               |
| <b>Voltmeter</b>        | Keithley (2000, SN:1015843)              |
| <b>Synthesizer</b>      | Agilent (E8257C, SN:MY43321570)          |
| <b>Amplifier</b>        | Mini-Circuits (ZHL-42, SN:110405)        |
| <b>Power Meter</b>      | Agilent (E4416A, SN:QB41292714)          |
| <b>Probe</b>            | Antennessa (SN:SN_1109_EP_100)           |
| <b>Phantom</b>          | Antennessa (SN:SN41_05_SAM29)            |
| <b>Liquid</b>           | Antennessa                               |



## C. SAR Measurement Results

|   |            |
|---|------------|
| <b>Frequency (MHz)</b>                        | 824.200012 |
| <b>Relative permittivity (real part)</b>      | 55.582100  |
| <b>Relative permittivity (imaginary part)</b> | 21.650050  |
| <b>Conductivity (S/m)</b>                     | 0.958319   |
| <b>Variation (%)</b>                          | 0.100000   |



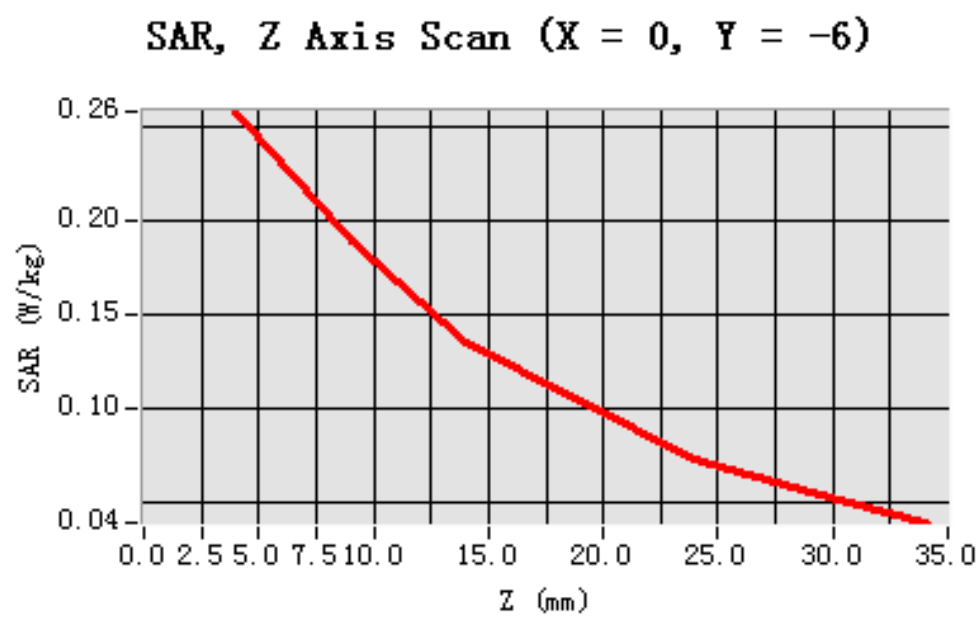
---

**Maximum location: X=0.00, Y=-6.00**

|                      |          |
|----------------------|----------|
| <b>SAR 1g (W/Kg)</b> | 0.280368 |
|----------------------|----------|

---

### Z Axis Scan



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## MEASUREMENT 2

Type: Phone measurement (Complete)

Date of measurement: 13/5/2010

Measurement duration: 14 minutes 29 seconds

Mobile Phone IMEI number:

### **A. Experimental conditions.**

|                        |                                   |
|------------------------|-----------------------------------|
| <b>Phantom File</b>    | surf_sam_plan.txt, Adaptive 2 max |
| <b>Phantom</b>         | Validation plane                  |
| <b>Device Position</b> | Body                              |
| <b>Band</b>            | GPRS850                           |
| <b>Channels</b>        | Middle                            |
| <b>Signal</b>          | GPRS                              |

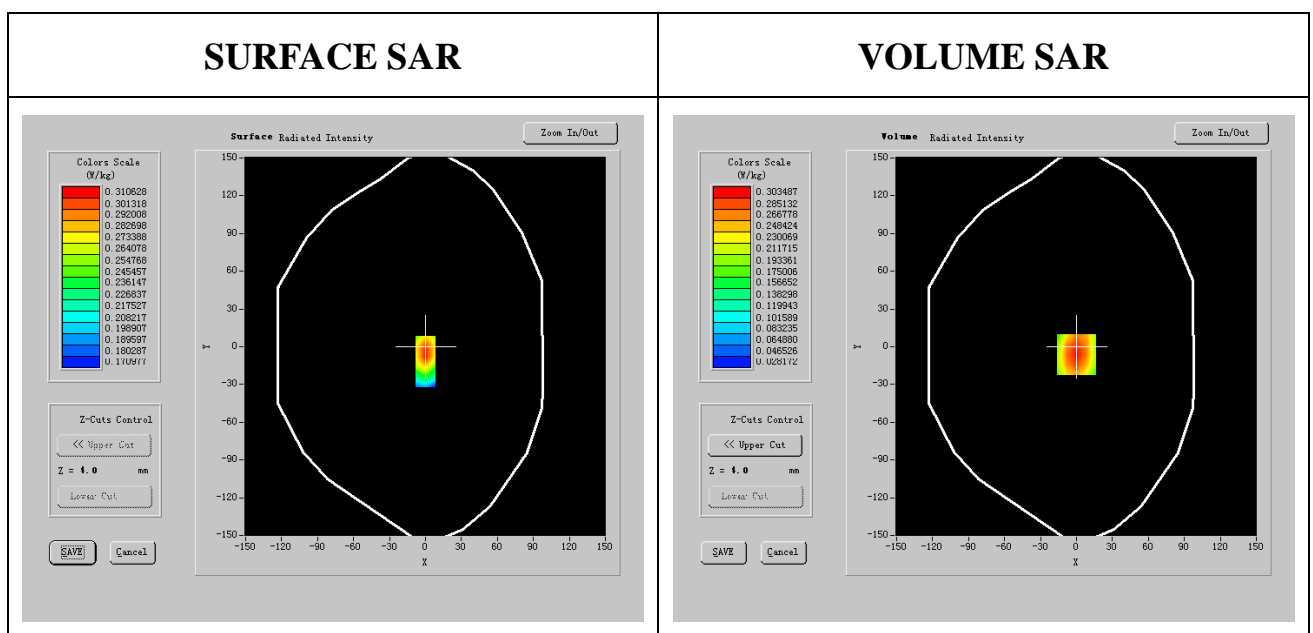
---

## **B. Instrumentations.**

|                         |  |
|-------------------------|--|
| <b>PC</b>               | HP (Pentium(R) V 3.06GHz, SN:375052-AA1) |
| <b>Network Emulator</b> | R&S (CMU200, SN:B23-03291)               |
| <b>Voltmeter</b>        | Keithley (2000, SN:1015843)              |
| <b>Synthesizer</b>      | Agilent (E8257C, SN:MY43321570)          |
| <b>Amplifier</b>        | Mini-Circuits (ZHL-42, SN:110405)        |
| <b>Power Meter</b>      | Agilent (E4416A, SN:QB41292714)          |
| <b>Probe</b>            | Antennessa (SN:SN_1109_EP_100)           |
| <b>Phantom</b>          | Antennessa (SN:SN41_05_SAM29)            |
| <b>Liquid</b>           | Antennessa                               |

## C. SAR Measurement Results

|   |            |
|---|------------|
| <b>Frequency (MHz)</b>                        | 836.400024 |
| <b>Relative permittivity (real part)</b>      | 55.502400  |
| <b>Relative permittivity (imaginary part)</b> | 21.857179  |
| <b>Conductivity (S/m)</b>                     | 0.958632   |
| <b>Variation (%)</b>                          | -0.100000  |



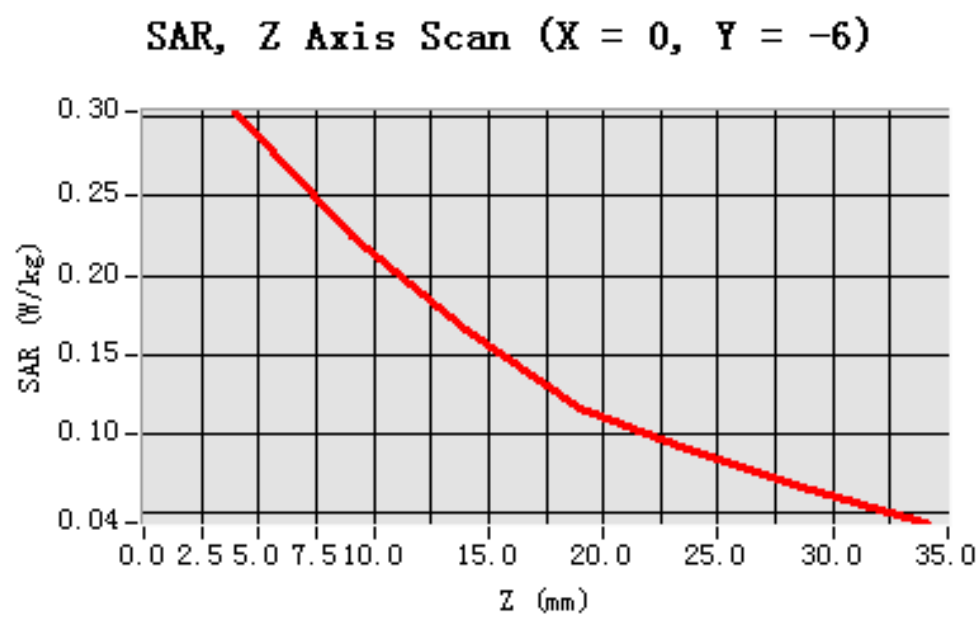
---

**Maximum location: X=0.00, Y=-6.00**

|                      |          |
|----------------------|----------|
| <b>SAR 1g (W/Kg)</b> | 0.304125 |
|----------------------|----------|

---

### Z Axis Scan





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## MEASUREMENT 3

Type: Phone measurement (Complete)

Date of measurement: 13/5/2010

Measurement duration: 14 minutes 29 seconds

Mobile Phone IMEI number:

### **A. Experimental conditions.**

|                        |                                   |
|------------------------|-----------------------------------|
| <b>Phantom File</b>    | surf_sam_plan.txt, Adaptive 2 max |
| <b>Phantom</b>         | Validation plane                  |
| <b>Device Position</b> | Body                              |
| <b>Band</b>            | GPRS850                           |
| <b>Channels</b>        | High                              |
| <b>Signal</b>          | GPRS                              |

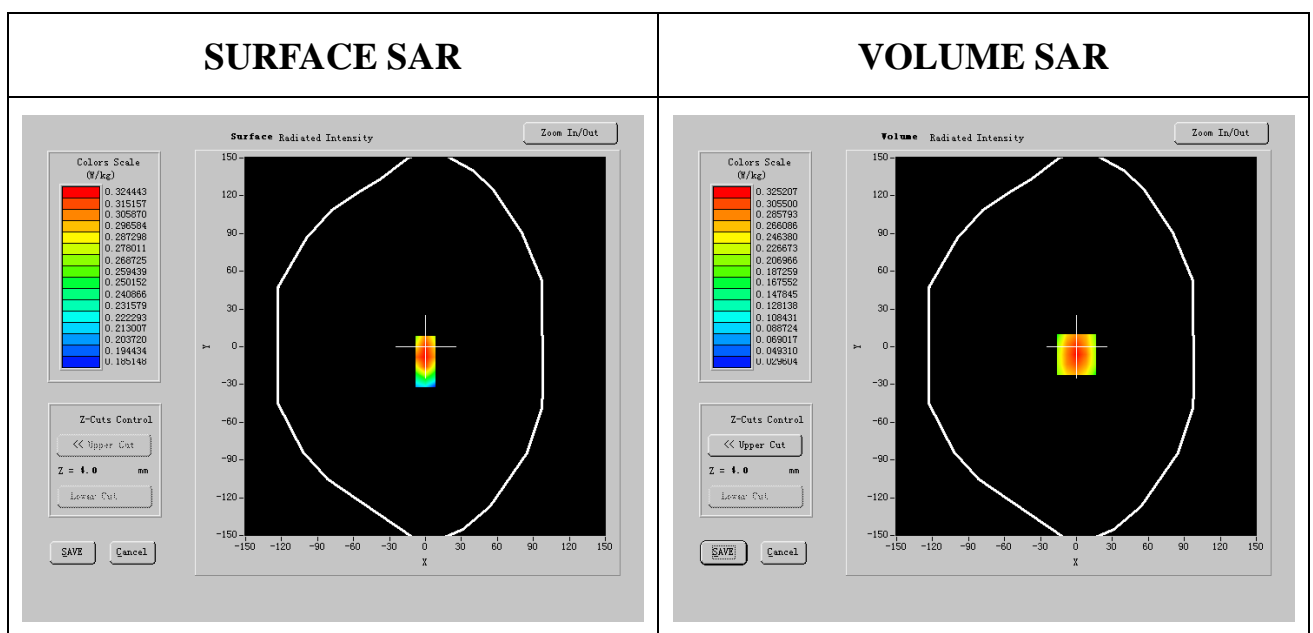
### **B. Instrumentations.**

---

|                         |  |
|-------------------------|--|
| <b>PC</b>               | HP (Pentium(R) V 3.06GHz, SN:375052-AA1) |
| <b>Network Emulator</b> | R&S (CMU200, SN:B23-03291)               |
| <b>Voltmeter</b>        | Keithley (2000, SN:1015843)              |
| <b>Synthetizer</b>      | Agilent (E8257C, SN:MY43321570)          |
| <b>Amplifier</b>        | Mini-Circuits (ZHL-42, SN:110405)        |
| <b>Power Meter</b>      | Agilent (E4416A, SN:QB41292714)          |
| <b>Probe</b>            | Antennessa (SN:SN_1109_EP_100)           |
| <b>Phantom</b>          | Antennessa (SN:SN41_05_SAM29)            |
| <b>Liquid</b>           | Antennessa                               |

## C. SAR Measurement Results

|   |            |
|---|------------|
| <b>Frequency (MHz)</b>                        | 848.599976 |
| <b>Relative permittivity (real part)</b>      | 55.590110  |
| <b>Relative permittivity (imaginary part)</b> | 21.726601  |
| <b>Conductivity (S/m)</b>                     | 0.964718   |
| <b>Variation (%)</b>                          | -0.200000  |



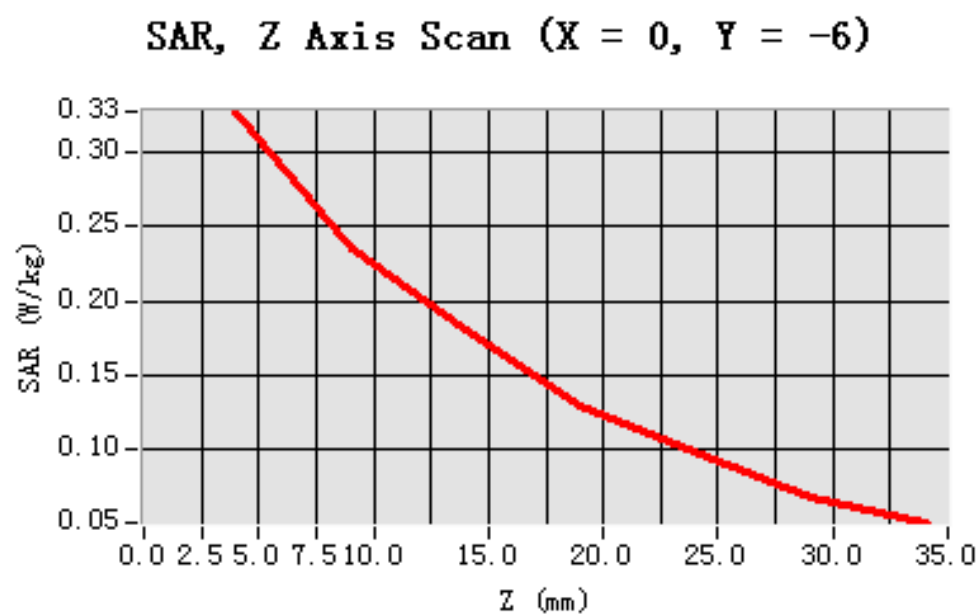
---

**Maximum location: X=0.00, Y=-6.00**

|                      |          |
|----------------------|----------|
| <b>SAR 1g (W/Kg)</b> | 0.329327 |
|----------------------|----------|

---

## Z Axis Scan



---

# Face down up earphone

## MEASUREMENT 1

Type: Phone measurement (Complete)

Date of measurement: 13/5/2010

Measurement duration: 14 minutes 29 seconds

Mobile Phone IMEI number:

### **A. Experimental conditions.**

|                        |                                   |
|------------------------|-----------------------------------|
| <b>Phantom File</b>    | surf_sam_plan.txt, Adaptive 2 max |
| <b>Phantom</b>         | Validation plane                  |
| <b>Device Position</b> | Body                              |
| <b>Band</b>            | GPRS850                           |
| <b>Channels</b>        | Low                               |
| <b>Signal</b>          | GPRS                              |

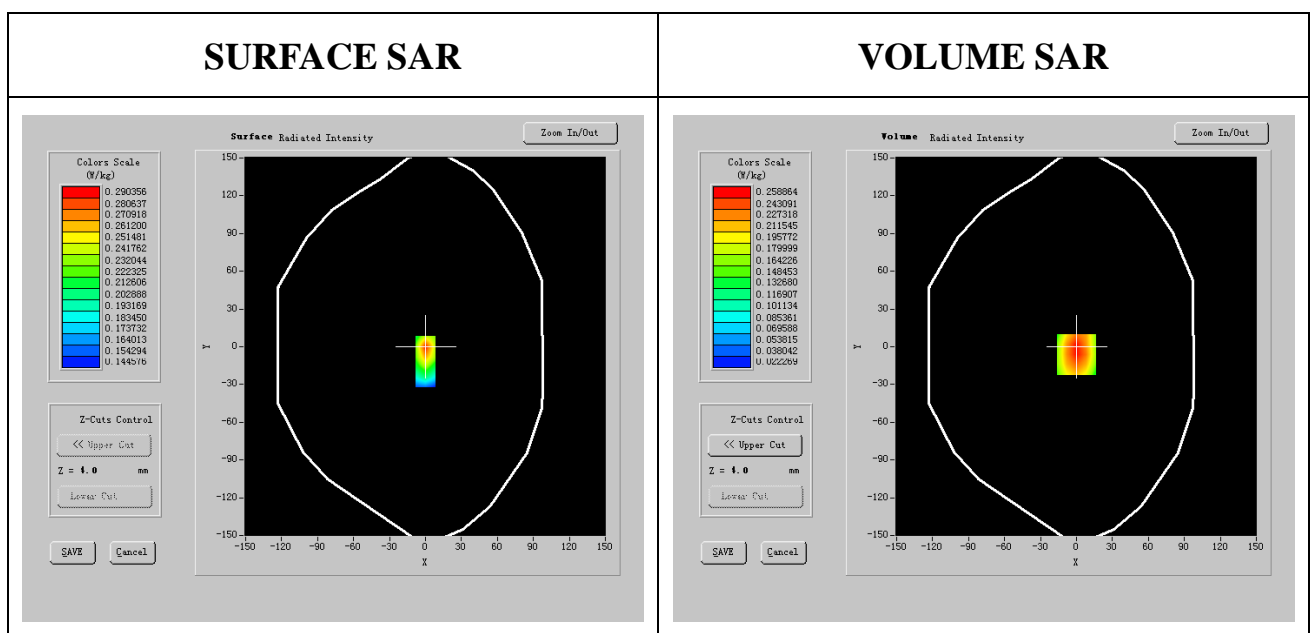
---

## **B. Instrumentations.**

|                         |  |
|-------------------------|--|
| <b>PC</b>               | HP (Pentium(R) V 3.06GHz, SN:375052-AA1) |
| <b>Network Emulator</b> | R&S (CMU200, SN:B23-03291)               |
| <b>Voltmeter</b>        | Keithley (2000, SN:1015843)              |
| <b>Synthesizer</b>      | Agilent (E8257C, SN:MY43321570)          |
| <b>Amplifier</b>        | Mini-Circuits (ZHL-42, SN:110405)        |
| <b>Power Meter</b>      | Agilent (E4416A, SN:QB41292714)          |
| <b>Probe</b>            | Antennessa (SN:SN_1109_EP_100)           |
| <b>Phantom</b>          | Antennessa (SN:SN41_05_SAM29)            |
| <b>Liquid</b>           | Antennessa                               |

## C. SAR Measurement Results

|   |            |
|---|------------|
| <b>Frequency (MHz)</b>                        | 824.200012 |
| <b>Relative permittivity (real part)</b>      | 55.584000  |
| <b>Relative permittivity (imaginary part)</b> | 21.654150  |
| <b>Conductivity (S/m)</b>                     | 0.961519   |
| <b>Variation (%)</b>                          | -0.120000  |





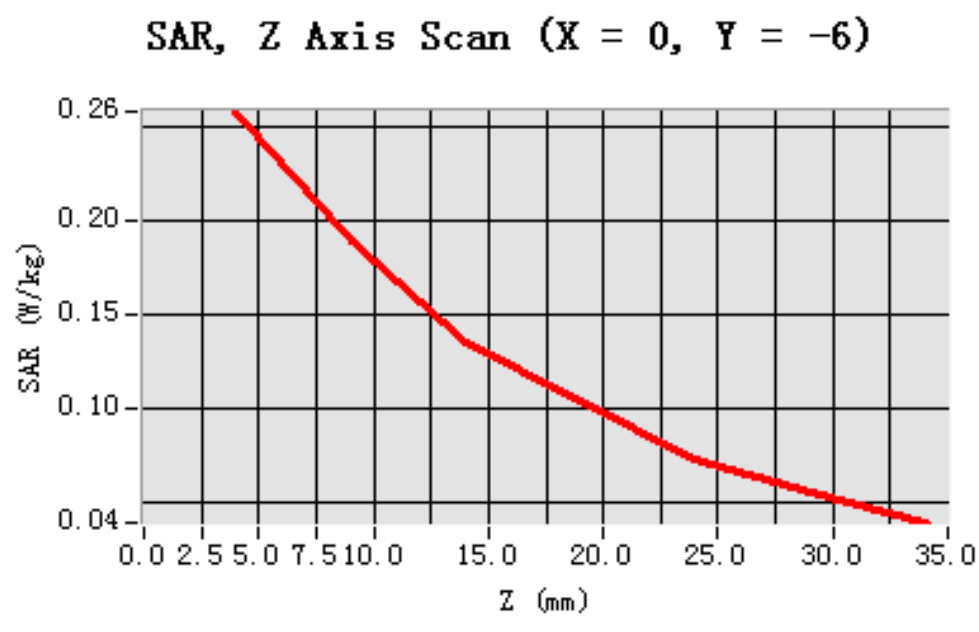
---

**Maximum location: X=0.00, Y=-6.00**

|                      |          |
|----------------------|----------|
| <b>SAR 1g (W/Kg)</b> | 0.276368 |
|----------------------|----------|

---

### Z Axis Scan



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## MEASUREMENT 2

Type: Phone measurement (Complete)

Date of measurement: 13/5/2010

Measurement duration: 14 minutes 29 seconds

Mobile Phone IMEI number:

### **A. Experimental conditions.**

|                        |                                   |
|------------------------|-----------------------------------|
| <b>Phantom File</b>    | surf_sam_plan.txt, Adaptive 2 max |
| <b>Phantom</b>         | Validation plane                  |
| <b>Device Position</b> | Body                              |
| <b>Band</b>            | GPRS850                           |
| <b>Channels</b>        | Middle                            |
| <b>Signal</b>          | GPRS                              |

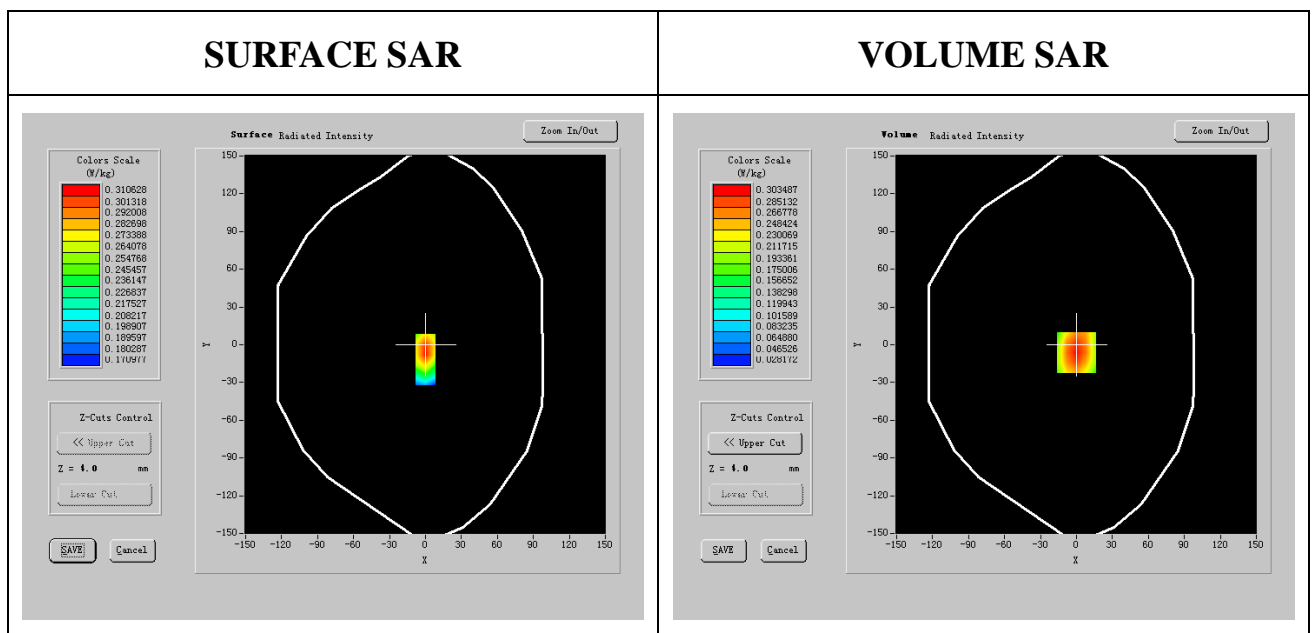
---

## **B. Instrumentations.**

|                         |  |
|-------------------------|--|
| <b>PC</b>               | HP (Pentium(R) V 3.06GHz, SN:375052-AA1) |
| <b>Network Emulator</b> | R&S (CMU200, SN:B23-03291)               |
| <b>Voltmeter</b>        | Keithley (2000, SN:1015843)              |
| <b>Synthetizer</b>      | Agilent (E8257C, SN:MY43321570)          |
| <b>Amplifier</b>        | Mini-Circuits (ZHL-42, SN:110405)        |
| <b>Power Meter</b>      | Agilent (E4416A, SN:QB41292714)          |
| <b>Probe</b>            | Antennessa (SN:SN_1109_EP_100)           |
| <b>Phantom</b>          | Antennessa (SN:SN41_05_SAM29)            |
| <b>Liquid</b>           | Antennessa                               |

## C. SAR Measurement Results

|   |            |
|---|------------|
| <b>Frequency (MHz)</b>                        | 836.400024 |
| <b>Relative permittivity (real part)</b>      | 55.501999  |
| <b>Relative permittivity (imaginary part)</b> | 21.866249  |
| <b>Conductivity (S/m)</b>                     | 0.966052   |
| <b>Variation (%)</b>                          | -0.200000  |



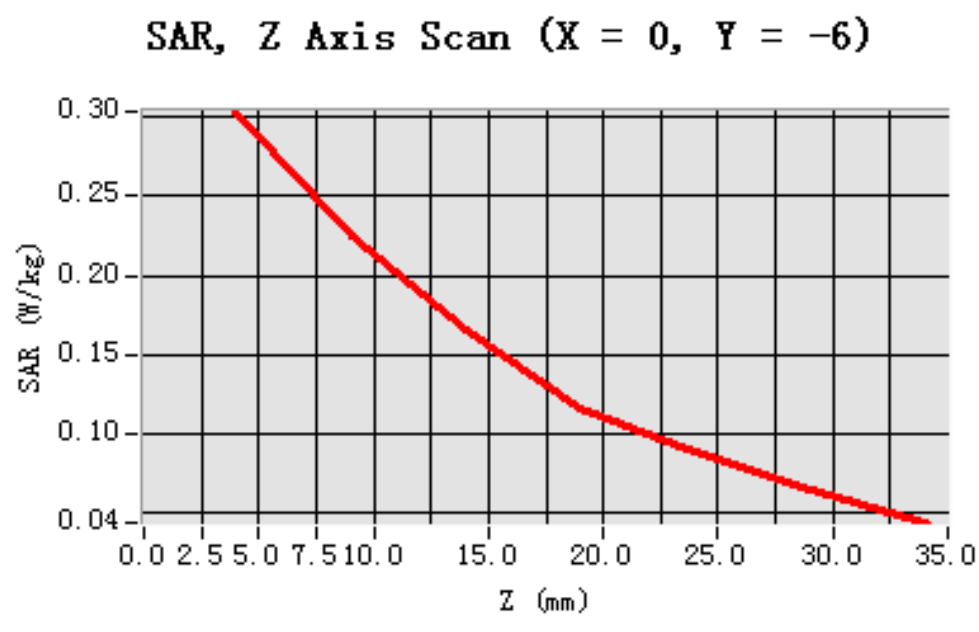
---

**Maximum location: X=0.00, Y=-6.00**

|                      |          |
|----------------------|----------|
| <b>SAR 1g (W/Kg)</b> | 0.298465 |
|----------------------|----------|

---

### Z Axis Scan



---

## MEASUREMENT 3

Type: Phone measurement (Complete)

Date of measurement: 13/5/2010

Measurement duration: 14 minutes 29 seconds

Mobile Phone IMEI number:

### **A. Experimental conditions.**

|                        |                                   |
|------------------------|-----------------------------------|
| <b>Phantom File</b>    | surf_sam_plan.txt, Adaptive 2 max |
| <b>Phantom</b>         | Validation plane                  |
| <b>Device Position</b> | Body                              |
| <b>Band</b>            | GPRS850                           |
| <b>Channels</b>        | High                              |
| <b>Signal</b>          | GPRS                              |

### **B. Instrumentations.**



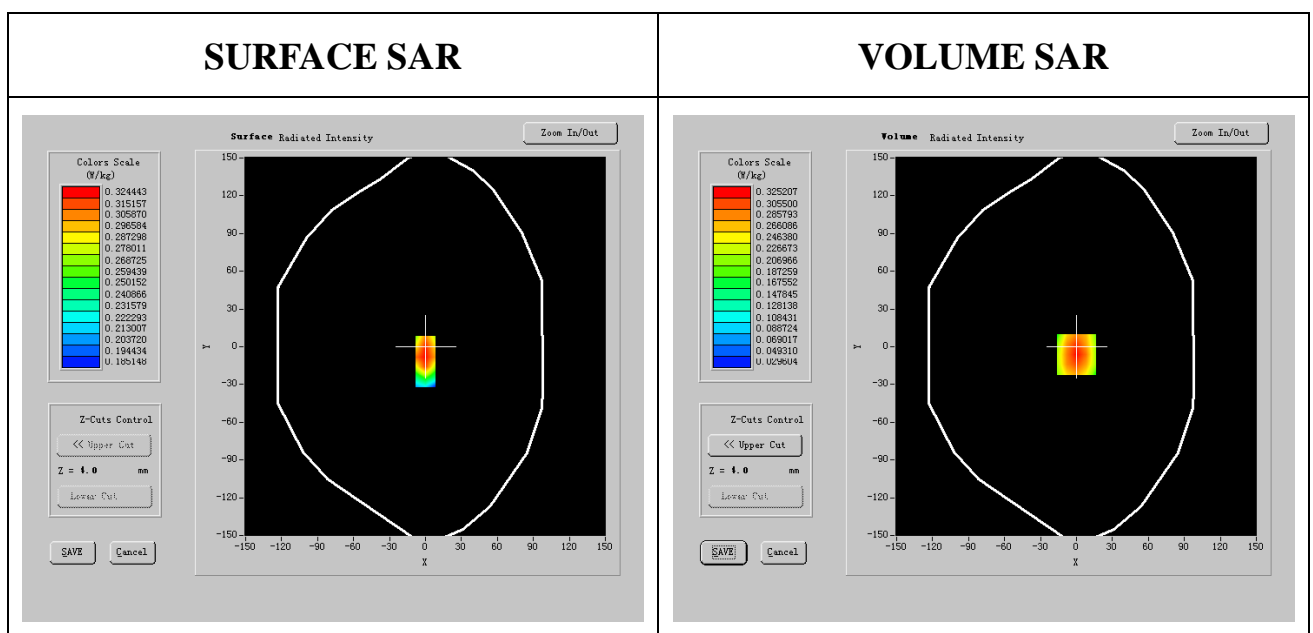
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|                         |  |
|-------------------------|--|
| <b>PC</b>               | HP (Pentium(R) V 3.06GHz, SN:375052-AA1) |
| <b>Network Emulator</b> | R&S (CMU200, SN:B23-03291)               |
| <b>Voltmeter</b>        | Keithley (2000, SN:1015843)              |
| <b>Synthesizer</b>      | Agilent (E8257C, SN:MY43321570)          |
| <b>Amplifier</b>        | Mini-Circuits (ZHL-42, SN:110405)        |
| <b>Power Meter</b>      | Agilent (E4416A, SN:QB41292714)          |
| <b>Probe</b>            | Antennessa (SN:SN_1109_EP_100)           |
| <b>Phantom</b>          | Antennessa (SN:SN41_05_SAM29)            |
| <b>Liquid</b>           | Antennessa                               |

## C. SAR Measurement Results

|   |            |
|---|------------|
| <b>Frequency (MHz)</b>                        | 848.599976 |
| <b>Relative permittivity (real part)</b>      | 55.576000  |
| <b>Relative permittivity (imaginary part)</b> | 21.726601  |
| <b>Conductivity (S/m)</b>                     | 0.969288   |
| <b>Variation (%)</b>                          | -0.200000  |



---

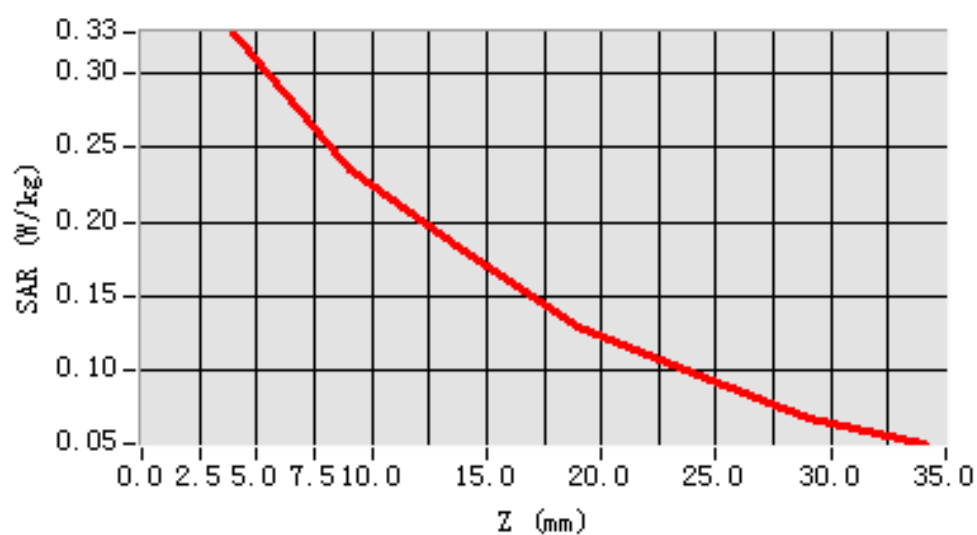
**Maximum location: X=0.00, Y=-6.00**

|                      |          |
|----------------------|----------|
| <b>SAR 1g (W/Kg)</b> | 0.329687 |
|----------------------|----------|

---

## Z Axis Scan

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



---

# Face down without earphone

## MEASUREMENT 1

Type: Phone measurement (Complete)

Date of measurement: 13/5/2010

Measurement duration: 14 minutes 29 seconds

Mobile Phone IMEI number:

### **A. Experimental conditions.**

|                        |                                   |
|------------------------|-----------------------------------|
| <b>Phantom File</b>    | surf_sam_plan.txt, Adaptive 2 max |
| <b>Phantom</b>         | Validation plane                  |
| <b>Device Position</b> | Body                              |
| <b>Band</b>            | GPRS850                           |
| <b>Channels</b>        | Low                               |
| <b>Signal</b>          | GPRS                              |

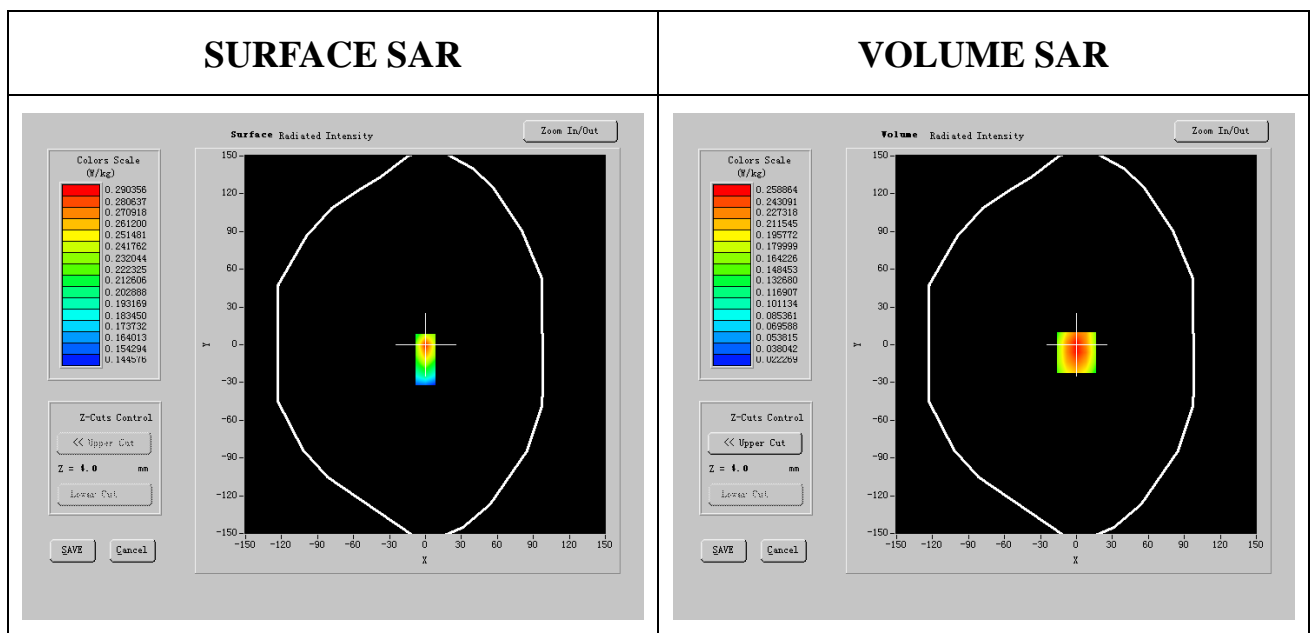
---

## **B. Instrumentations.**

|                         |  |
|-------------------------|--|
| <b>PC</b>               | HP (Pentium(R) V 3.06GHz, SN:375052-AA1) |
| <b>Network Emulator</b> | R&S (CMU200, SN:B23-03291)               |
| <b>Voltmeter</b>        | Keithley (2000, SN:1015843)              |
| <b>Synthetizer</b>      | Agilent (E8257C, SN:MY43321570)          |
| <b>Amplifier</b>        | Mini-Circuits (ZHL-42, SN:110405)        |
| <b>Power Meter</b>      | Agilent (E4416A, SN:QB41292714)          |
| <b>Probe</b>            | Antennessa (SN:SN_1109_EP_100)           |
| <b>Phantom</b>          | Antennessa (SN:SN41_05_SAM29)            |
| <b>Liquid</b>           | Antennessa                               |

## C. SAR Measurement Results

|   |            |
|---|------------|
| <b>Frequency (MHz)</b>                        | 824.200012 |
| <b>Relative permittivity (real part)</b>      | 55.578200  |
| <b>Relative permittivity (imaginary part)</b> | 21.648550  |
| <b>Conductivity (S/m)</b>                     | 0.959119   |
| <b>Variation (%)</b>                          | 0.120000   |



---

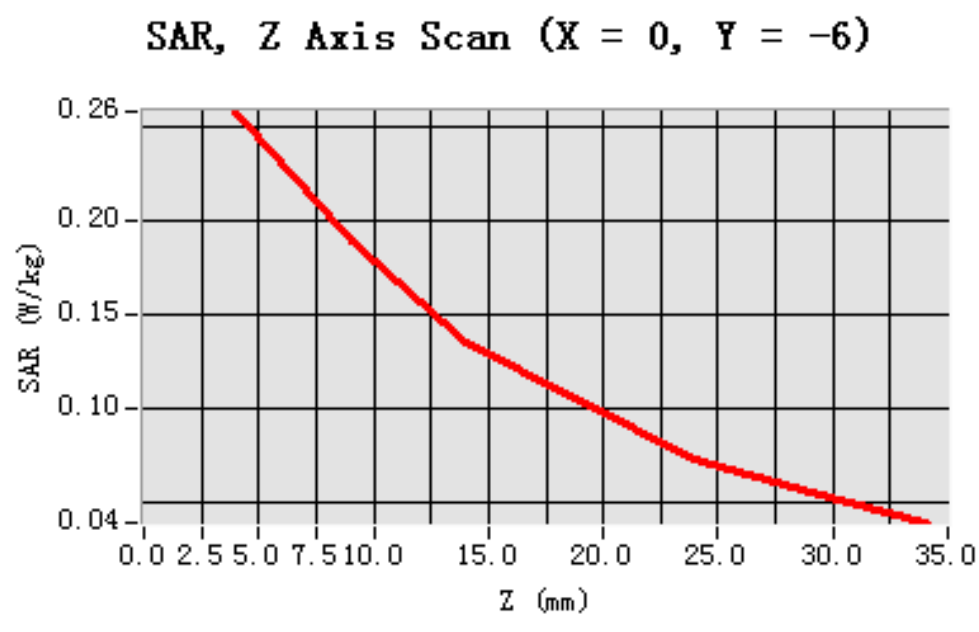
**Maximum location: X=0.00, Y=-6.00**

|                      |          |
|----------------------|----------|
| <b>SAR 1g (W/Kg)</b> | 0.278268 |
|----------------------|----------|



---

### Z Axis Scan



---

## MEASUREMENT 2

Type: Phone measurement (Complete)

Date of measurement: 13/5/2010

Measurement duration: 14 minutes 29 seconds

Mobile Phone IMEI number:

### **A. Experimental conditions.**

|                        |                                   |
|------------------------|-----------------------------------|
| <b>Phantom File</b>    | surf_sam_plan.txt, Adaptive 2 max |
| <b>Phantom</b>         | Validation plane                  |
| <b>Device Position</b> | Body                              |
| <b>Band</b>            | GPRS850                           |
| <b>Channels</b>        | Middle                            |
| <b>Signal</b>          | GPRS                              |

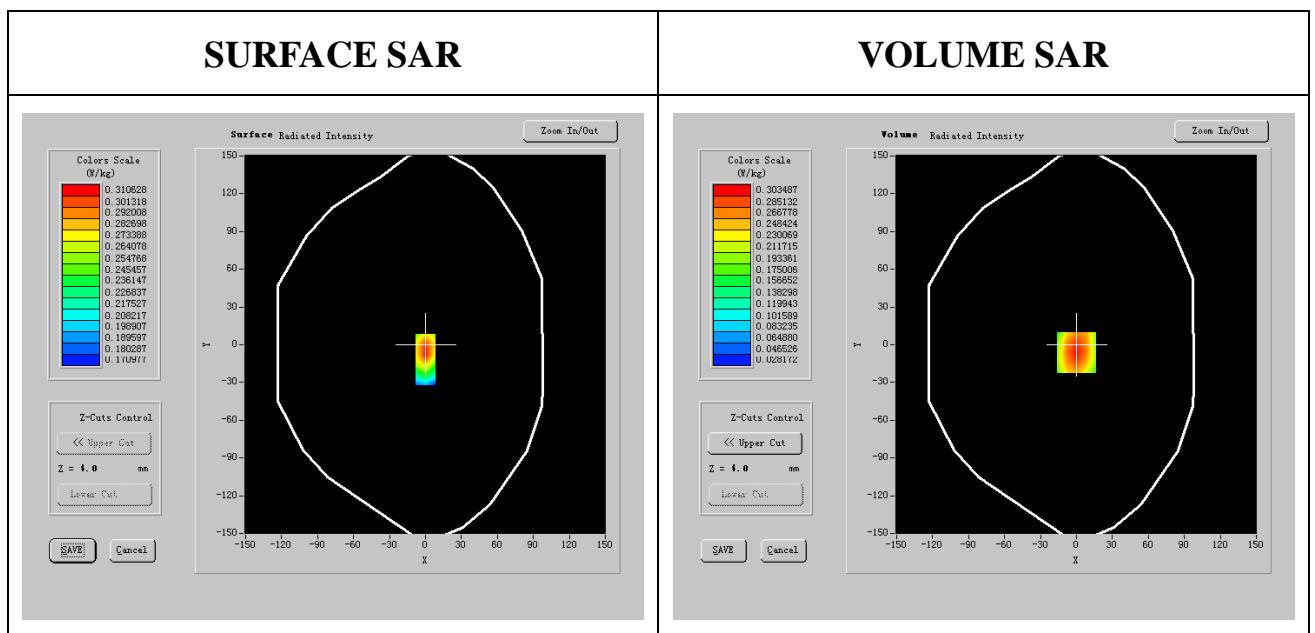
---

## **B. Instrumentations.**

|                         |  |
|-------------------------|--|
| <b>PC</b>               | HP (Pentium(R) V 3.06GHz, SN:375052-AA1) |
| <b>Network Emulator</b> | R&S (CMU200, SN:B23-03291)               |
| <b>Voltmeter</b>        | Keithley (2000, SN:1015843)              |
| <b>Synthesizer</b>      | Agilent (E8257C, SN:MY43321570)          |
| <b>Amplifier</b>        | Mini-Circuits (ZHL-42, SN:110405)        |
| <b>Power Meter</b>      | Agilent (E4416A, SN:QB41292714)          |
| <b>Probe</b>            | Antennessa (SN:SN_1109_EP_100)           |
| <b>Phantom</b>          | Antennessa (SN:SN41_05_SAM29)            |
| <b>Liquid</b>           | Antennessa                               |

## C. SAR Measurement Results

|   |            |
|---|------------|
| <b>Frequency (MHz)</b>                        | 836.400024 |
| <b>Relative permittivity (real part)</b>      | 55.5021400 |
| <b>Relative permittivity (imaginary part)</b> | 21.862479  |
| <b>Conductivity (S/m)</b>                     | 0.960152   |
| <b>Variation (%)</b>                          | -0.200000  |



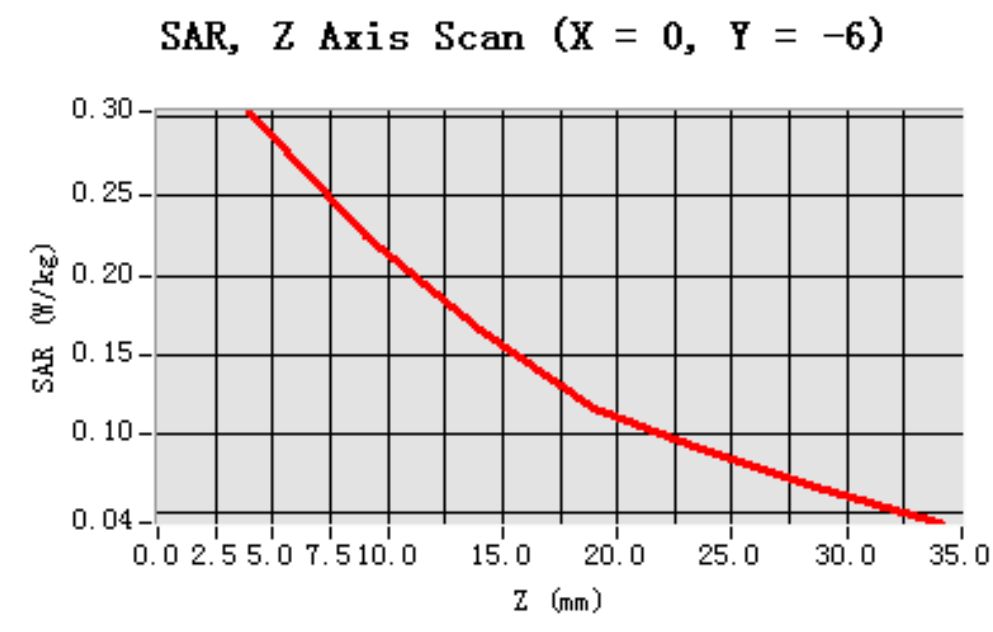
---

**Maximum location: X=0.00, Y=-6.00**

|                      |          |
|----------------------|----------|
| <b>SAR 1g (W/Kg)</b> | 0.299665 |
|----------------------|----------|

---

### Z Axis Scan



---

## MEASUREMENT 3

Type: Phone measurement (Complete)

Date of measurement: 13/5/2010

Measurement duration: 14 minutes 29 seconds

Mobile Phone IMEI number:

### **A. Experimental conditions.**

|                        |                                   |
|------------------------|-----------------------------------|
| <b>Phantom File</b>    | surf_sam_plan.txt, Adaptive 2 max |
| <b>Phantom</b>         | Validation plane                  |
| <b>Device Position</b> | Body                              |
| <b>Band</b>            | GPRS850                           |
| <b>Channels</b>        | High                              |
| <b>Signal</b>          | GPRS                              |

### **B. Instrumentations.**

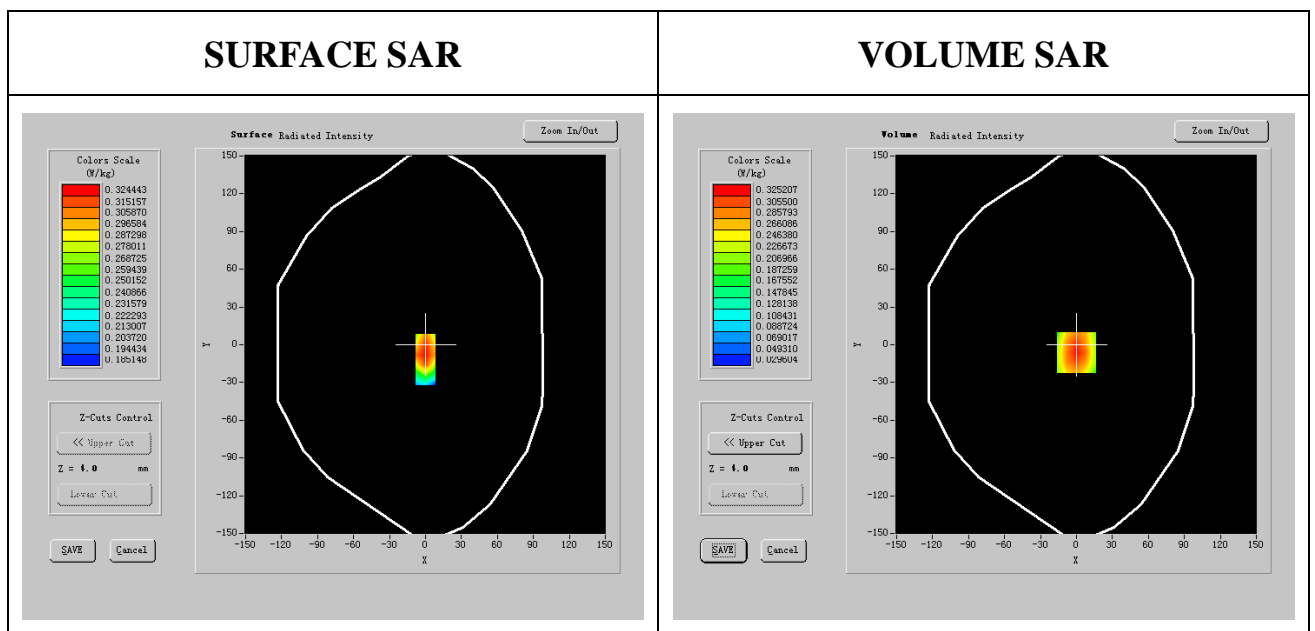
---

|                         |  |
|-------------------------|--|
| <b>PC</b>               | HP (Pentium(R) V 3.06GHz, SN:375052-AA1) |
| <b>Network Emulator</b> | R&S (CMU200, SN:B23-03291)               |
| <b>Voltmeter</b>        | Keithley (2000, SN:1015843)              |
| <b>Synthetizer</b>      | Agilent (E8257C, SN:MY43321570)          |
| <b>Amplifier</b>        | Mini-Circuits (ZHL-42, SN:110405)        |
| <b>Power Meter</b>      | Agilent (E4416A, SN:QB41292714)          |
| <b>Probe</b>            | Antennessa (SN:SN_1109_EP_100)           |
| <b>Phantom</b>          | Antennessa (SN:SN41_05_SAM29)            |
| <b>Liquid</b>           | Antennessa                               |



## C. SAR Measurement Results

|   |            |
|---|------------|
| <b>Frequency (MHz)</b>                        | 848.599976 |
| <b>Relative permittivity (real part)</b>      | 55.578320  |
| <b>Relative permittivity (imaginary part)</b> | 21.726601  |
| <b>Conductivity (S/m)</b>                     | 0.964718   |
| <b>Variation (%)</b>                          | -0.200000  |



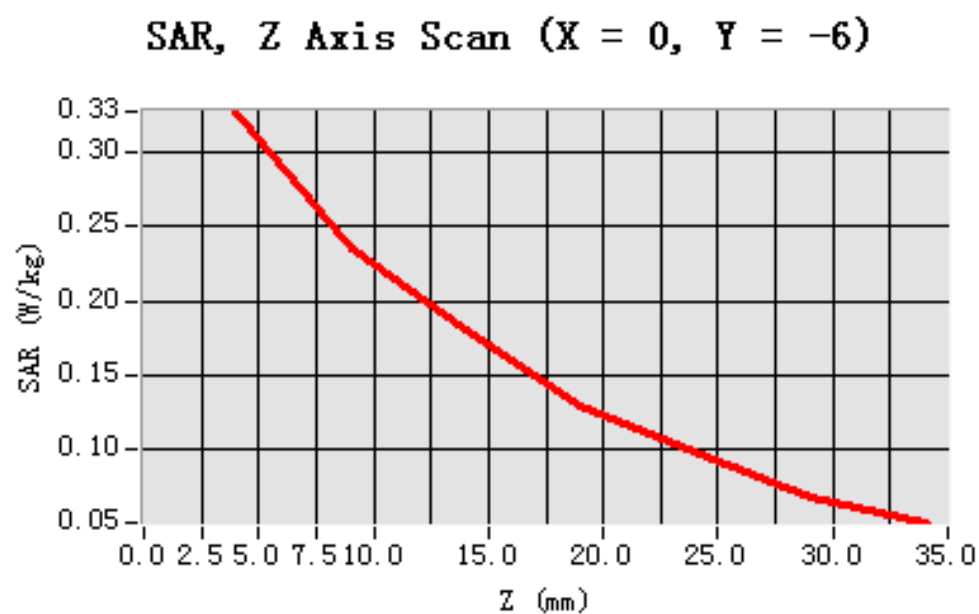
---

**Maximum location: X=0.00, Y=-6.00**

|                      |          |
|----------------------|----------|
| <b>SAR 1g (W/Kg)</b> | 0.328127 |
|----------------------|----------|

---

## Z Axis Scan



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## GPRS 1900

### I. RESULTS

| <u>TYPE</u>       | <u>BAND</u> | <u>PARAMETERS</u>  |
|-------------------|-------------|--|
| <u>Noise</u>      | --          | --   |
| <u>Validation</u> | --          | --   |
| <u>Phone</u>      | GPRS1900    | <u>Measurement 1:</u> Validation Plane with Body device position on Low Channel in GPRS mode<br><u>Measurement 2:</u> Validation Plane with Body device position on Middle Channel in GPRS mode<br><u>Measurement 3:</u> Validation Plane with Body device position on High Channel in GPRS mode |

---

## Face up with earphone

### MEASUREMENT 1

Type: Phone measurement (Complete)

Date of measurement: 13/5/2010

Measurement duration: 6 minutes 46 seconds

Mobile Phone IMEI number: --

#### **A. Experimental conditions.**

|                        |                              |
|------------------------|------------------------------|
| <b>Phantom File</b>    | zinf15.txt, Adaptative 2 max |
| <b>Phantom</b>         | Validation plane             |
| <b>Device Position</b> | Body                         |
| <b>Band</b>            | GPRS1900                     |
| <b>Channels</b>        | Low                          |
| <b>Signal</b>          | GPRS                         |

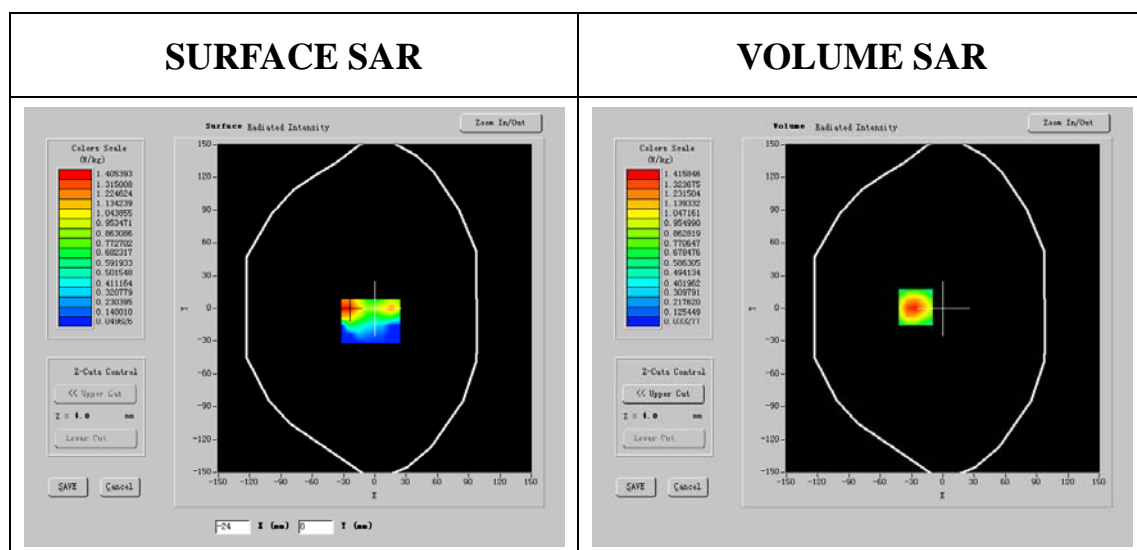
---

## **B. Instrumentations.**

|                         |   |
|-------------------------|---|
| <b>PC</b>               | HP (Pentium(R) V3.06GHz, SN:375052-AA1) |
| <b>Network Emulator</b> | R&S (CMU200, SN:B23-03291)              |
| <b>Voltmeter</b>        | Keithley (2000, SN:1015843)             |
| <b>Synthesizer</b>      | Agilent (E8257C, SN:MY43321570)         |
| <b>Amplifier</b>        | Mini-Circuits (ZHL-42, SN:110405)       |
| <b>Power Meter</b>      | Agilent (E4416A, SN:QB41292714)         |
| <b>Probe</b>            | Antennessa (SN:SN_11/09_EP_100)         |
| <b>Phantom</b>          | Antennessa (SN:SN41_05_SAM29)           |
| <b>Liquid</b>           | Antennessa                              |

## C. SAR Measurement Results

|   |             |
|---|-------------|
| <b>Frequency (MHz)</b>                        | 1850.199021 |
| <b>Relative permittivity (real part)</b>      | 52.320140   |
| <b>Relative permittivity (imaginary part)</b> | 14.403672   |
| <b>Conductivity (S/m)</b>                     | 1.510236    |
| <b>Variation (%)</b>                          | -0.400000   |



---

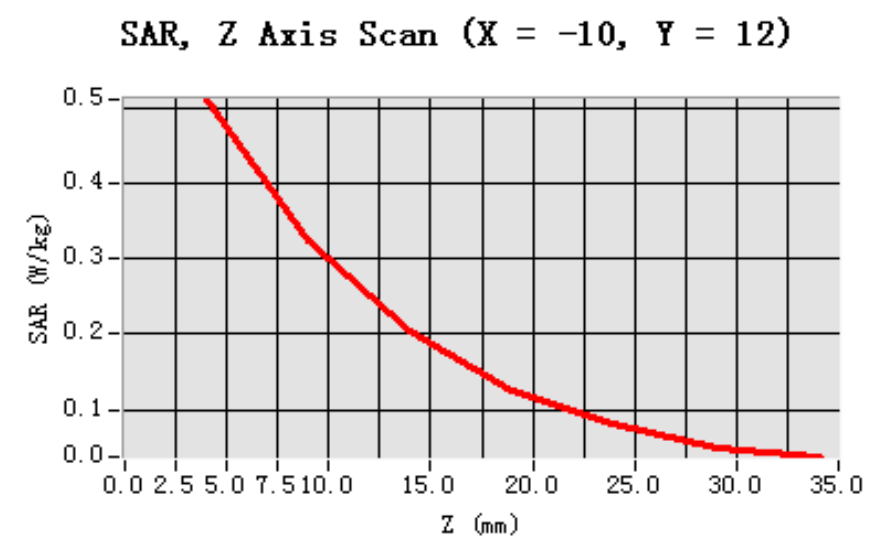
**Maximum location: X=-31.00, Y=-16.00**

|                      |          |
|----------------------|----------|
| <b>SAR 1g (W/Kg)</b> | 0.496121 |
|----------------------|----------|



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## Z Axis Scan



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## MEASUREMENT 2

Type: Phone measurement (Complete)

Date of measurement: 13/5/2010

Measurement duration: 6 minutes 51 seconds

Mobile Phone IMEI number: --

### **A. Experimental conditions.**

|                        |                            |
|------------------------|----------------------------|
| <b>Phantom File</b>    | zinf15.txt, Adaptive 2 max |
| <b>Phantom</b>         | Validation plane           |
| <b>Device Position</b> | Body                       |
| <b>Band</b>            | GPRS1900                   |
| <b>Channels</b>        | Middle                     |
| <b>Signal</b>          | GPRS                       |

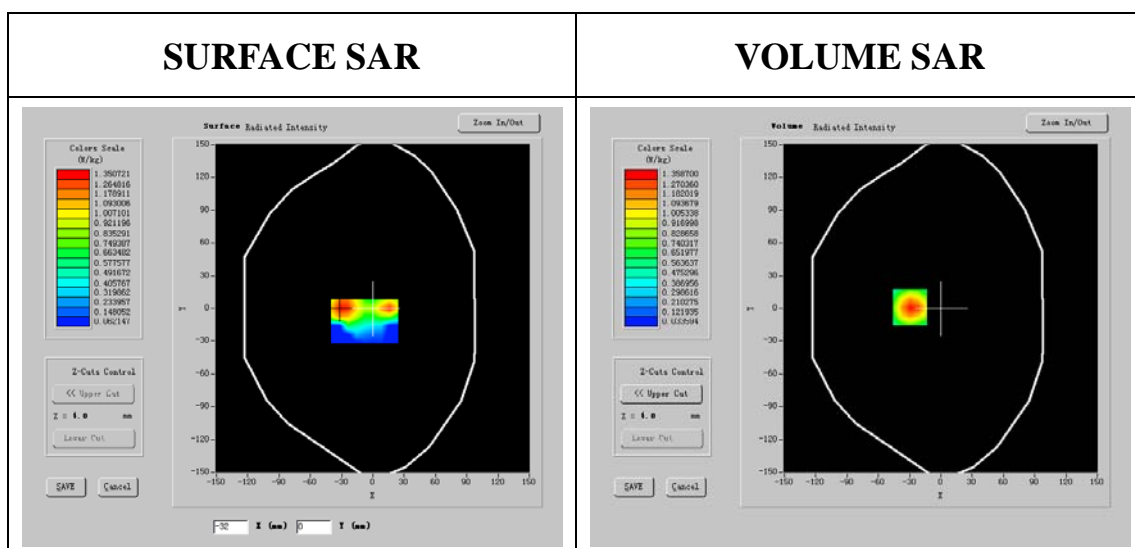
---

## **B. Instrumentations.**

|                         |   |
|-------------------------|---|
| <b>PC</b>               | HP (Pentium(R) V3.06GHz, SN:375052-AA1) |
| <b>Network Emulator</b> | R&S (CMU200, SN:B23-03291)              |
| <b>Voltmeter</b>        | Keithley (2000, SN:1015843)             |
| <b>Synthesizer</b>      | Agilent (E8257C, SN:MY43321570)         |
| <b>Amplifier</b>        | Mini-Circuits (ZHL-42, SN:110405)       |
| <b>Power Meter</b>      | Agilent (E4416A, SN:QB41292714)         |
| <b>Probe</b>            | Antennessa (SN:SN_11/09_EP_100)         |
| <b>Phantom</b>          | Antennessa (SN:SN41_05_SAM29)           |
| <b>Liquid</b>           | Antennessa                              |

## C. SAR Measurement Results

|   |             |
|---|-------------|
| <b>Frequency (MHz)</b>                        | 1880.000004 |
| <b>Relative permittivity (real part)</b>      | 52.394713   |
| <b>Relative permittivity (imaginary part)</b> | 14.227406   |
| <b>Conductivity (S/m)</b>                     | 1.501203    |
| <b>Variation (%)</b>                          | -1.000000   |



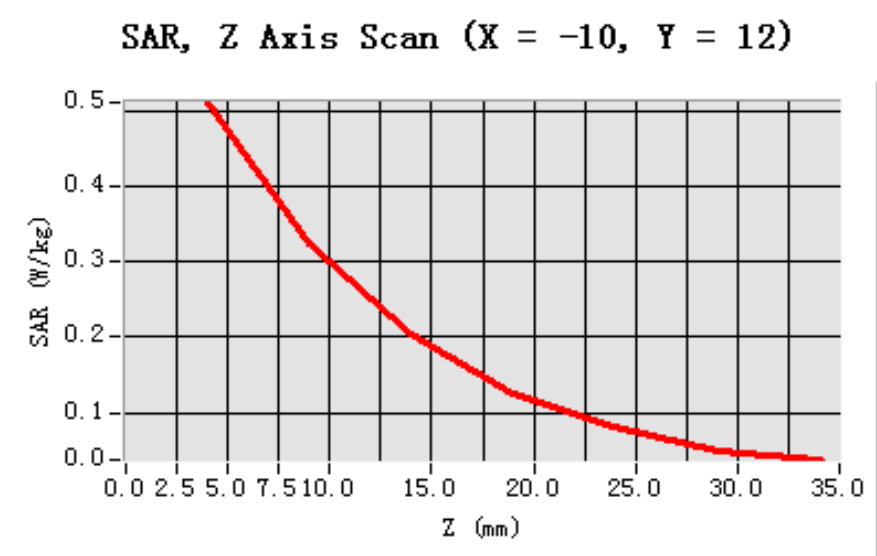
---

**Maximum location: X=-31.00, Y=-16.00**

|                      |          |
|----------------------|----------|
| <b>SAR 1g (W/Kg)</b> | 0.394818 |
|----------------------|----------|

---

## Z Axis Scan



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## MEASUREMENT 3

Type: Phone measurement (Complete)

Date of measurement: 13/5/2010

Measurement duration: 6 minutes 21 seconds

Mobile Phone IMEI number: --

### **A. Experimental conditions.**

|                        |                            |
|------------------------|----------------------------|
| <b>Phantom File</b>    | zinf15.txt, Adaptive 2 max |
| <b>Phantom</b>         | Validation plane           |
| <b>Device Position</b> | Body                       |
| <b>Band</b>            | GPRS1900                   |
| <b>Channels</b>        | High                       |
| <b>Signal</b>          | GPRS                       |

---

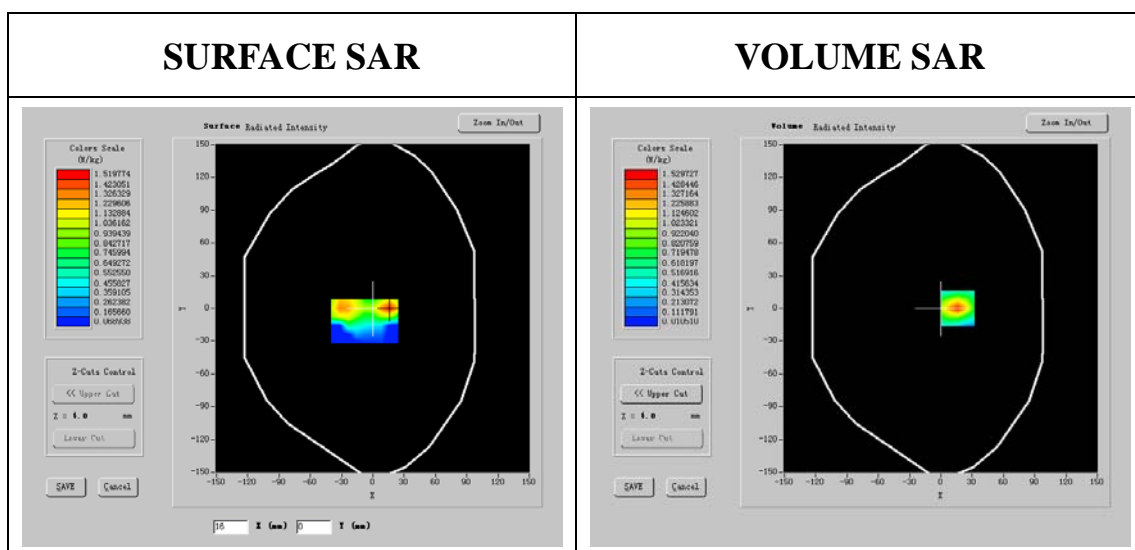
## **B. Instrumentations.**

|                         |   |
|-------------------------|---|
| <b>PC</b>               | HP (Pentium(R) V3.06GHz, SN:375052-AA1) |
| <b>Network Emulator</b> | R&S (CMU200, SN:B23-03291)              |
| <b>Voltmeter</b>        | Keithley (2000, SN:1015843)             |
| <b>Synthetizer</b>      | Agilent (E8257C, SN:MY43321570)         |
| <b>Amplifier</b>        | Mini-Circuits (ZHL-42, SN:110405)       |
| <b>Power Meter</b>      | Agilent (E4416A, SN:QB41292714)         |
| <b>Probe</b>            | Antennessa (SN:SN_11/09_EP_100)         |
| <b>Phantom</b>          | Antennessa (SN:SN41_05_SAM29)           |
| <b>Liquid</b>           | Antennessa                              |



## C. SAR Measurement Results

|   |             |
|---|-------------|
| <b>Frequency (MHz)</b>                        | 1910.029036 |
| <b>Relative permittivity (real part)</b>      | 52.8203510  |
| <b>Relative permittivity (imaginary part)</b> | 14.361200   |
| <b>Conductivity (S/m)</b>                     | 1.502102    |
| <b>Variation (%)</b>                          | -0.130000   |



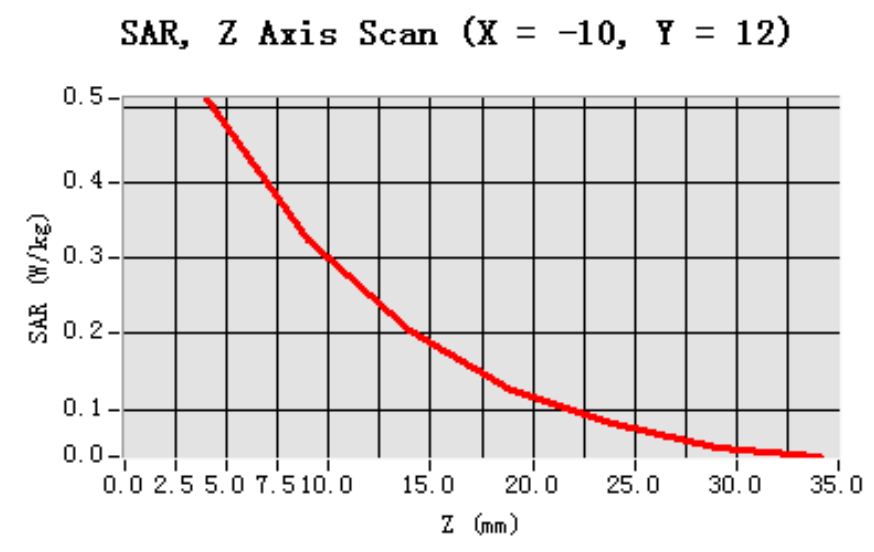
---

**Maximum location: X=2.00, Y=9.00**

|                      |          |
|----------------------|----------|
| <b>SAR 1g (W/Kg)</b> | 0.465912 |
|----------------------|----------|

---

## Z Axis Scan



---

# Face down with earphone

## MEASUREMENT 1

Type: Phone measurement (Complete)

Date of measurement: 13/5/2010

Measurement duration: 6 minutes 46 seconds

Mobile Phone IMEI number: --

### **A. Experimental conditions.**

|                        |                              |
|------------------------|------------------------------|
| <b>Phantom File</b>    | zinf15.txt, Adaptative 2 max |
| <b>Phantom</b>         | Validation plane             |
| <b>Device Position</b> | Body                         |
| <b>Band</b>            | GPRS1900                     |
| <b>Channels</b>        | Low                          |
| <b>Signal</b>          | GPRS                         |

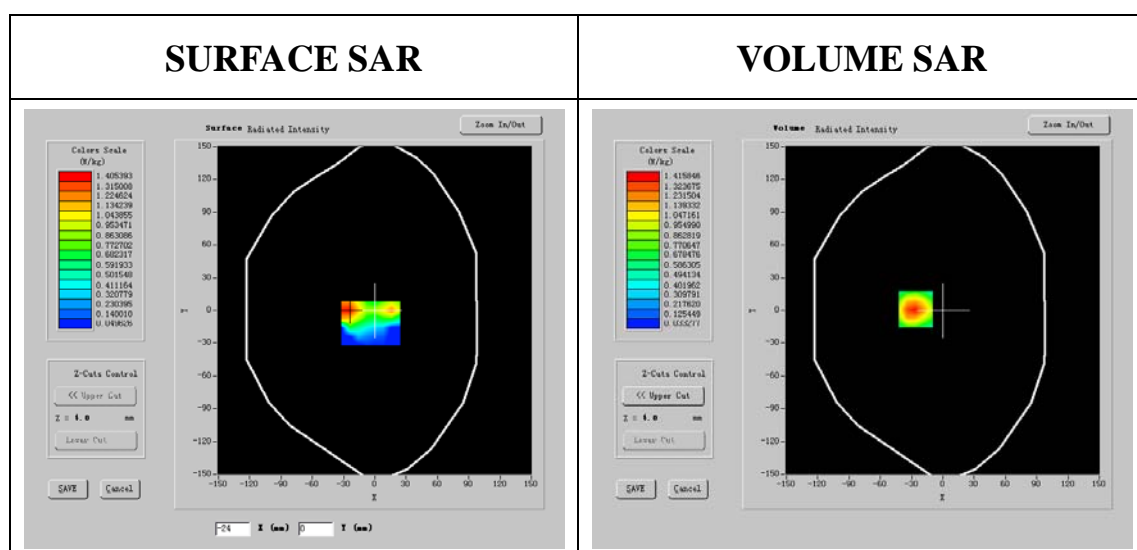
---

## **B. Instrumentations.**

|                         |   |
|-------------------------|---|
| <b>PC</b>               | HP (Pentium(R) V3.06GHz, SN:375052-AA1) |
| <b>Network Emulator</b> | R&S (CMU200, SN:B23-03291)              |
| <b>Voltmeter</b>        | Keithley (2000, SN:1015843)             |
| <b>Synthesizer</b>      | Agilent (E8257C, SN:MY43321570)         |
| <b>Amplifier</b>        | Mini-Circuits (ZHL-42, SN:110405)       |
| <b>Power Meter</b>      | Agilent (E4416A, SN:QB41292714)         |
| <b>Probe</b>            | Antennessa (SN:SN_11/09_EP_100)         |
| <b>Phantom</b>          | Antennessa (SN:SN41_05_SAM29)           |
| <b>Liquid</b>           | Antennessa                              |

## C. SAR Measurement Results

|   |             |
|---|-------------|
| <b>Frequency (MHz)</b>                        | 1710.199951 |
| <b>Relative permittivity (real part)</b>      | 52.351470   |
| <b>Relative permittivity (imaginary part)</b> | 14.451293   |
| <b>Conductivity (S/m)</b>                     | 1.510698    |
| <b>Variation (%)</b>                          | -0.400000   |



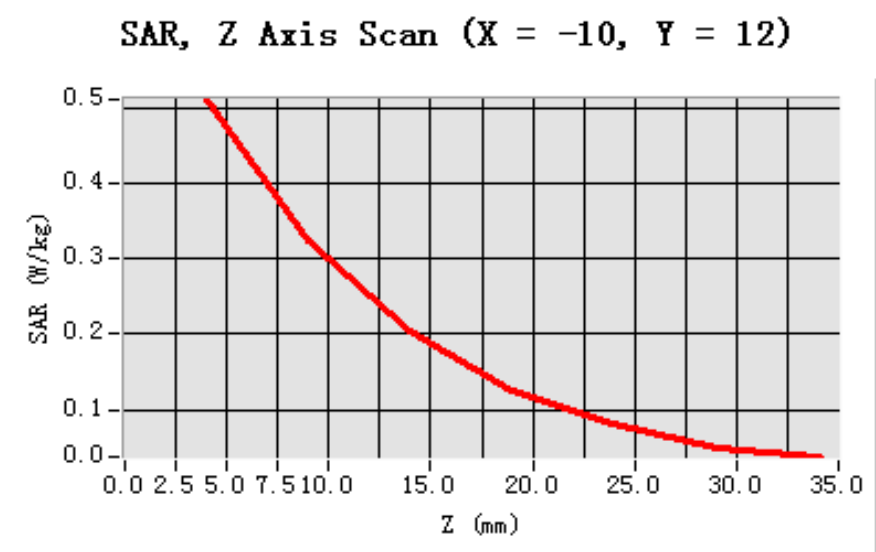
---

**Maximum location: X=-31.00, Y=-16.00**

|                      |          |
|----------------------|----------|
| <b>SAR 1g (W/Kg)</b> | 0.427101 |
|----------------------|----------|

---

## Z Axis Scan





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## MEASUREMENT 2

Type: Phone measurement (Complete)

Date of measurement: 13/5/2010

Measurement duration: 6 minutes 51 seconds

Mobile Phone IMEI number: --

### **A. Experimental conditions.**

|                        |                              |
|------------------------|------------------------------|
| <b>Phantom File</b>    | zinf15.txt, Adaptative 2 max |
| <b>Phantom</b>         | Validation plane             |
| <b>Device Position</b> | Body                         |
| <b>Band</b>            | GPRS1900                     |
| <b>Channels</b>        | Middle                       |
| <b>Signal</b>          | GPRS                         |

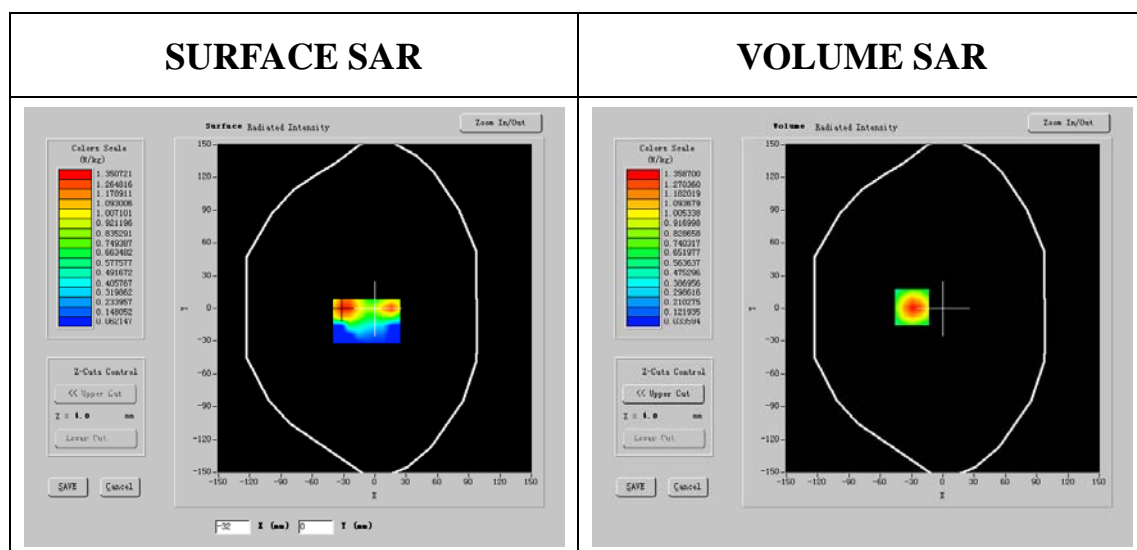
---

## **B. Instrumentations.**

|                         |   |
|-------------------------|---|
| <b>PC</b>               | HP (Pentium(R) V3.06GHz, SN:375052-AA1) |
| <b>Network Emulator</b> | R&S (CMU200, SN:B23-03291)              |
| <b>Voltmeter</b>        | Keithley (2000, SN:1015843)             |
| <b>Synthesizer</b>      | Agilent (E8257C, SN:MY43321570)         |
| <b>Amplifier</b>        | Mini-Circuits (ZHL-42, SN:110405)       |
| <b>Power Meter</b>      | Agilent (E4416A, SN:QB41292714)         |
| <b>Probe</b>            | Antennessa (SN:SN_11/09_EP_100)         |
| <b>Phantom</b>          | Antennessa (SN:SN41_05_SAM29)           |
| <b>Liquid</b>           | Antennessa                              |

## C. SAR Measurement Results

|   |             |
|---|-------------|
| <b>Frequency (MHz)</b>                        | 1747.400004 |
| <b>Relative permittivity (real part)</b>      | 52.421428   |
| <b>Relative permittivity (imaginary part)</b> | 14.301456   |
| <b>Conductivity (S/m)</b>                     | 1.515086    |
| <b>Variation (%)</b>                          | -1.000000   |



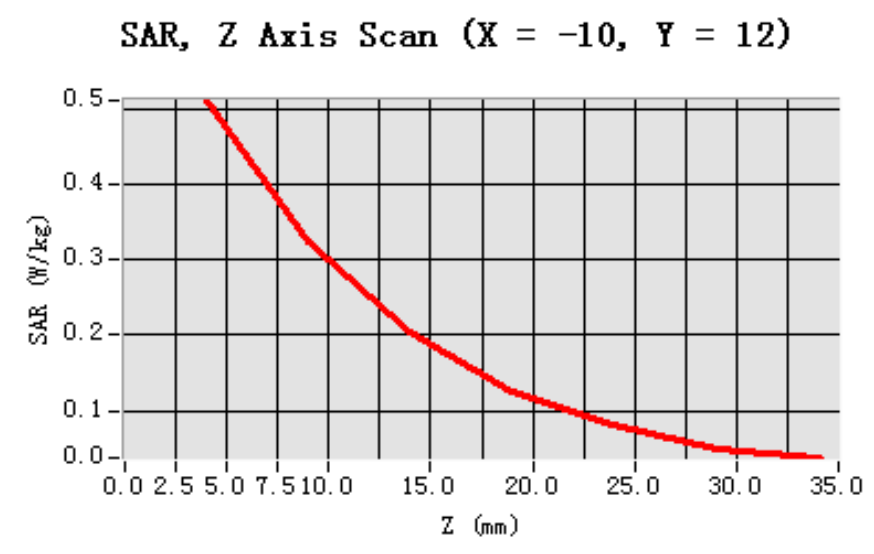
---

**Maximum location: X=-31.00, Y=-16.00**

|                      |          |
|----------------------|----------|
| <b>SAR 1g (W/Kg)</b> | 0.415201 |
|----------------------|----------|

---

## Z Axis Scan



---

## MEASUREMENT 3

Type: Phone measurement (Complete)

Date of measurement: 13/5/2010

Measurement duration: 6 minutes 21 seconds

Mobile Phone IMEI number: --

### **A. Experimental conditions.**

|                        |                              |
|------------------------|------------------------------|
| <b>Phantom File</b>    | zinf15.txt, Adaptative 2 max |
| <b>Phantom</b>         | Validation plane             |
| <b>Device Position</b> | Body                         |
| <b>Band</b>            | GPRS1900                     |
| <b>Channels</b>        | High                         |
| <b>Signal</b>          | GPRS                         |

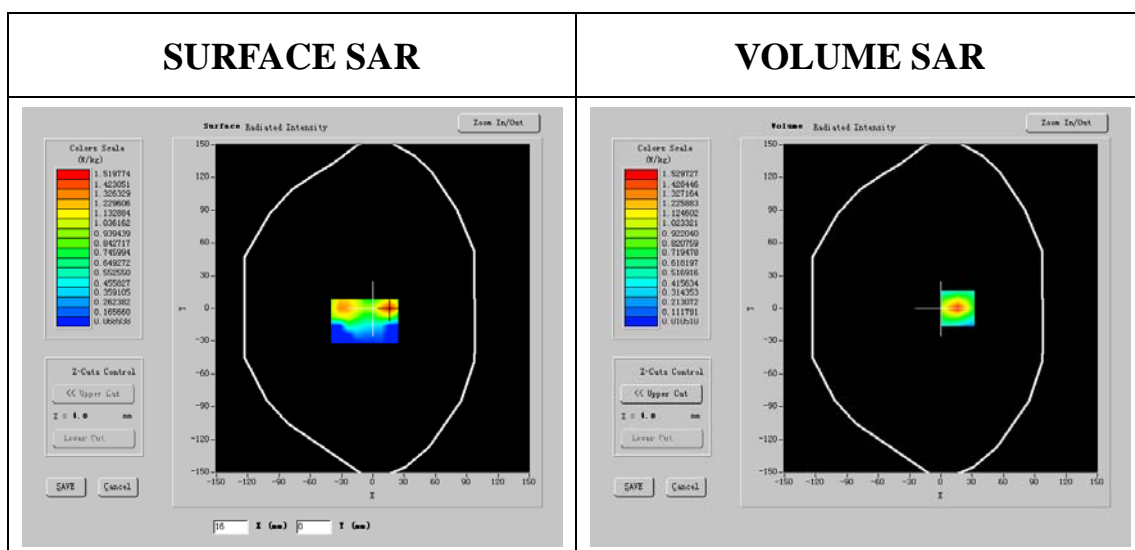
---

## **B. Instrumentations.**

|                         |   |
|-------------------------|---|
| <b>PC</b>               | HP (Pentium(R) V3.06GHz, SN:375052-AA1) |
| <b>Network Emulator</b> | R&S (CMU200, SN:B23-03291)              |
| <b>Voltmeter</b>        | Keithley (2000, SN:1015843)             |
| <b>Synthetizer</b>      | Agilent (E8257C, SN:MY43321570)         |
| <b>Amplifier</b>        | Mini-Circuits (ZHL-42, SN:110405)       |
| <b>Power Meter</b>      | Agilent (E4416A, SN:QB41292714)         |
| <b>Probe</b>            | Antennessa (SN:SN_11/09_EP_100)         |
| <b>Phantom</b>          | Antennessa (SN:SN41_05_SAM29)           |
| <b>Liquid</b>           | Antennessa                              |

## C. SAR Measurement Results

|   |             |
|---|-------------|
| <b>Frequency (MHz)</b>                        | 1784.599036 |
| <b>Relative permittivity (real part)</b>      | 52.795142   |
| <b>Relative permittivity (imaginary part)</b> | 14.319230   |
| <b>Conductivity (S/m)</b>                     | 1.502565    |
| <b>Variation (%)</b>                          | -0.130000   |





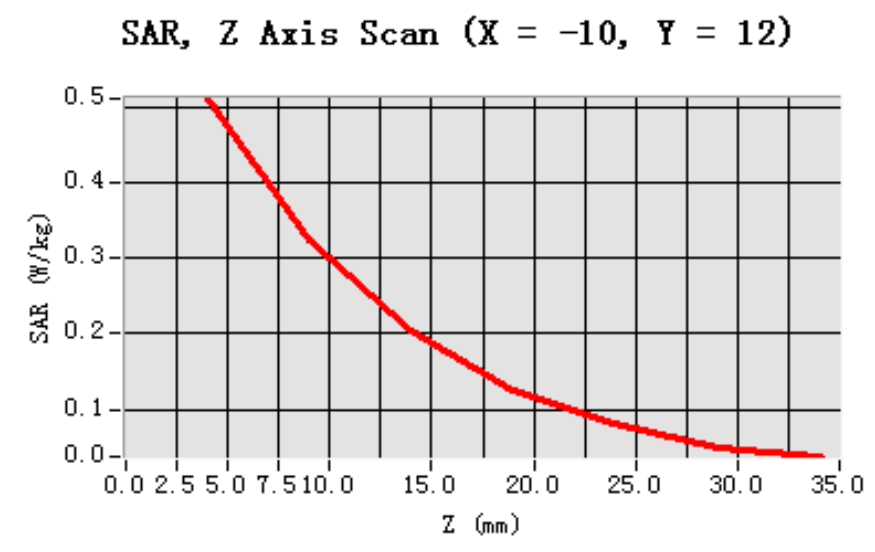
---

**Maximum location: X=2.00, Y=9.00**

|                      |          |
|----------------------|----------|
| <b>SAR 1g (W/Kg)</b> | 0.432144 |
|----------------------|----------|

---

## Z Axis Scan



---

## Face up with earphone

### MEASUREMENT 1

Type: Phone measurement (Complete)

Date of measurement: 13/5/2010

Measurement duration: 6 minutes 46 seconds

Mobile Phone IMEI number: --

#### **A. Experimental conditions.**

|                        |                              |
|------------------------|------------------------------|
| <b>Phantom File</b>    | zinf15.txt, Adaptative 2 max |
| <b>Phantom</b>         | Validation plane             |
| <b>Device Position</b> | Body                         |
| <b>Band</b>            | GPRS1900                     |
| <b>Channels</b>        | Low                          |
| <b>Signal</b>          | GPRS                         |

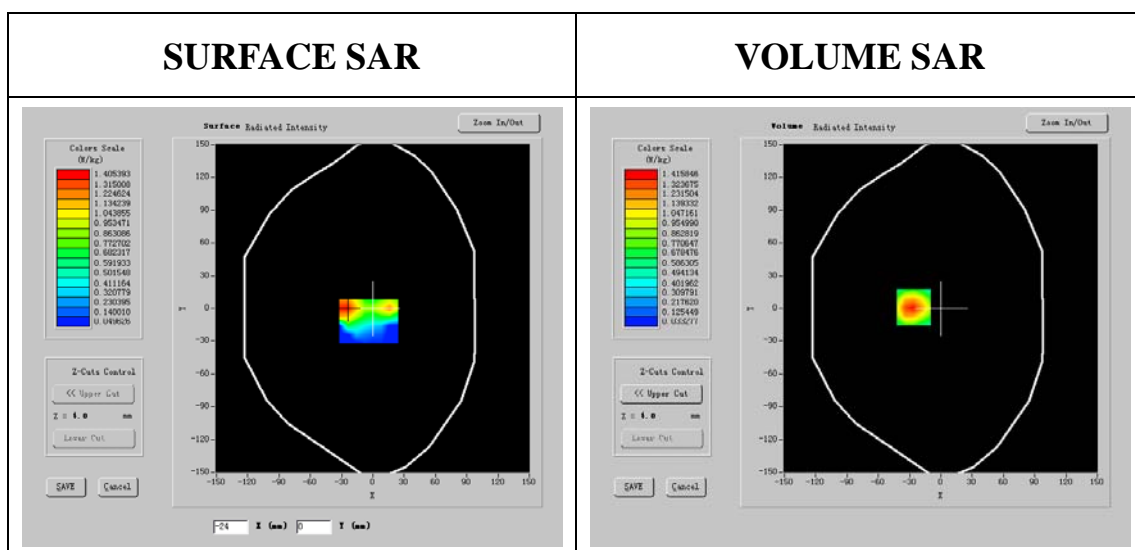
---

## **B. Instrumentations.**

|                         |   |
|-------------------------|---|
| <b>PC</b>               | HP (Pentium(R) V3.06GHz, SN:375052-AA1) |
| <b>Network Emulator</b> | R&S (CMU200, SN:B23-03291)              |
| <b>Voltmeter</b>        | Keithley (2000, SN:1015843)             |
| <b>Synthesizer</b>      | Agilent (E8257C, SN:MY43321570)         |
| <b>Amplifier</b>        | Mini-Circuits (ZHL-42, SN:110405)       |
| <b>Power Meter</b>      | Agilent (E4416A, SN:QB41292714)         |
| <b>Probe</b>            | Antennessa (SN:SN_11/09_EP_100)         |
| <b>Phantom</b>          | Antennessa (SN:SN41_05_SAM29)           |
| <b>Liquid</b>           | Antennessa                              |

## C. SAR Measurement Results

|   |             |
|---|-------------|
| <b>Frequency (MHz)</b>                        | 1710.199951 |
| <b>Relative permittivity (real part)</b>      | 52.347400   |
| <b>Relative permittivity (imaginary part)</b> | 14.450693   |
| <b>Conductivity (S/m)</b>                     | 1.510698    |
| <b>Variation (%)</b>                          | -0.400000   |



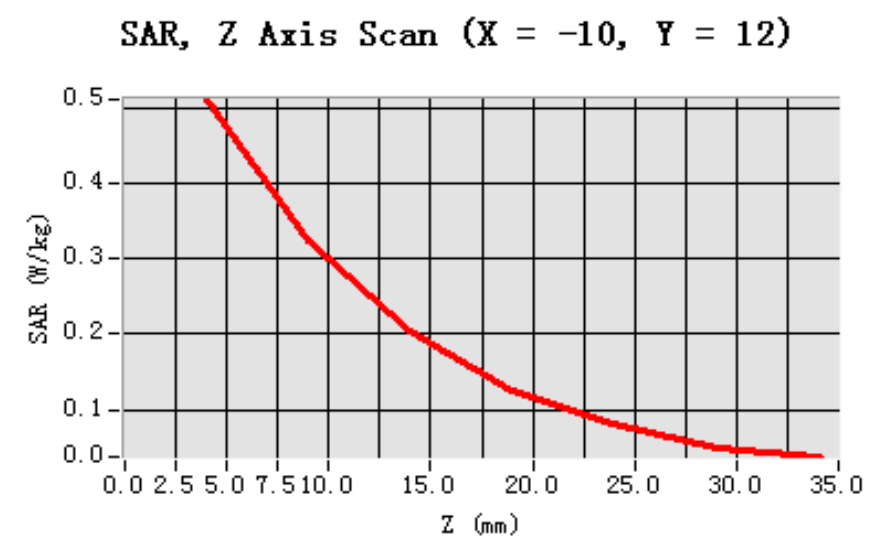
---

**Maximum location: X=-31.00, Y=-16.00**

|                      |          |
|----------------------|----------|
| <b>SAR 1g (W/Kg)</b> | 0.424231 |
|----------------------|----------|

---

## Z Axis Scan



---

## MEASUREMENT 2

Type: Phone measurement (Complete)

Date of measurement: 13/5/2010

Measurement duration: 6 minutes 51 seconds

Mobile Phone IMEI number: --

### **A. Experimental conditions.**

|                        |                              |
|------------------------|------------------------------|
| <b>Phantom File</b>    | zinf15.txt, Adaptative 2 max |
| <b>Phantom</b>         | Validation plane             |
| <b>Device Position</b> | Body                         |
| <b>Band</b>            | GPRS1900                     |
| <b>Channels</b>        | Middle                       |
| <b>Signal</b>          | GPRS                         |



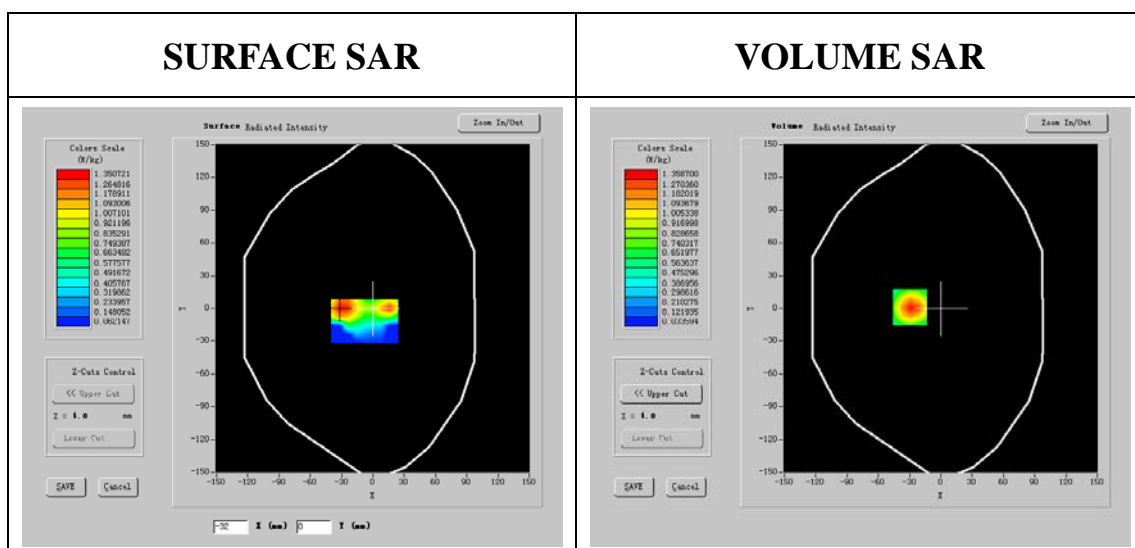
---

## **B. Instrumentations.**

|                         |   |
|-------------------------|---|
| <b>PC</b>               | HP (Pentium(R) V3.06GHz, SN:375052-AA1) |
| <b>Network Emulator</b> | R&S (CMU200, SN:B23-03291)              |
| <b>Voltmeter</b>        | Keithley (2000, SN:1015843)             |
| <b>Synthetizer</b>      | Agilent (E8257C, SN:MY43321570)         |
| <b>Amplifier</b>        | Mini-Circuits (ZHL-42, SN:110405)       |
| <b>Power Meter</b>      | Agilent (E4416A, SN:QB41292714)         |
| <b>Probe</b>            | Antennessa (SN:SN_11/09_EP_100)         |
| <b>Phantom</b>          | Antennessa (SN:SN41_05_SAM29)           |
| <b>Liquid</b>           | Antennessa                              |

## C. SAR Measurement Results

|   |             |
|---|-------------|
| <b>Frequency (MHz)</b>                        | 1747.400004 |
| <b>Relative permittivity (real part)</b>      | 52.417028   |
| <b>Relative permittivity (imaginary part)</b> | 14.293556   |
| <b>Conductivity (S/m)</b>                     | 1.514286    |
| <b>Variation (%)</b>                          | -1.000000   |



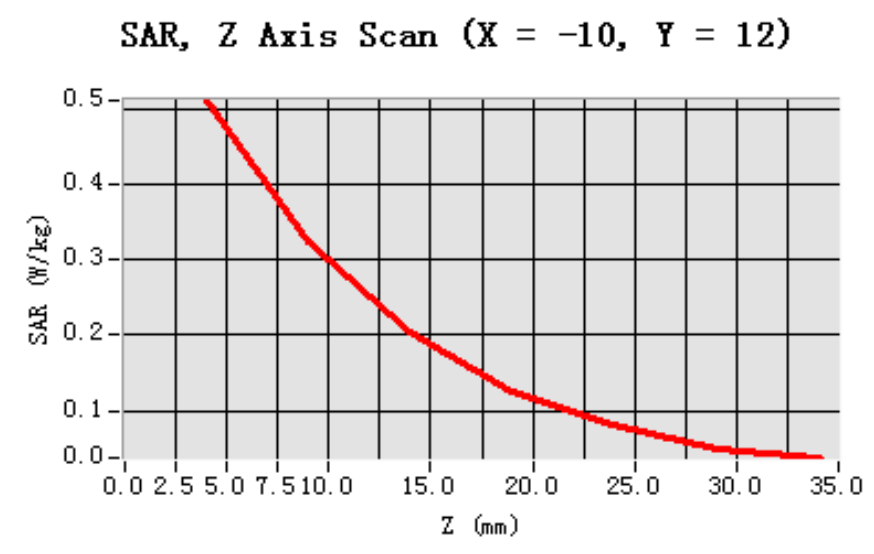
---

**Maximum location: X=-31.00, Y=-16.00**

|                      |          |
|----------------------|----------|
| <b>SAR 1g (W/Kg)</b> | 0.412211 |
|----------------------|----------|

---

## Z Axis Scan



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## MEASUREMENT 3

Type: Phone measurement (Complete)

Date of measurement: 13/5/2010

Measurement duration: 6 minutes 21 seconds

Mobile Phone IMEI number: --

### **A. Experimental conditions.**

|                        |                            |
|------------------------|----------------------------|
| <b>Phantom File</b>    | zinf15.txt, Adaptive 2 max |
| <b>Phantom</b>         | Validation plane           |
| <b>Device Position</b> | Body                       |
| <b>Band</b>            | GPRS1900                   |
| <b>Channels</b>        | High                       |
| <b>Signal</b>          | GPRS                       |

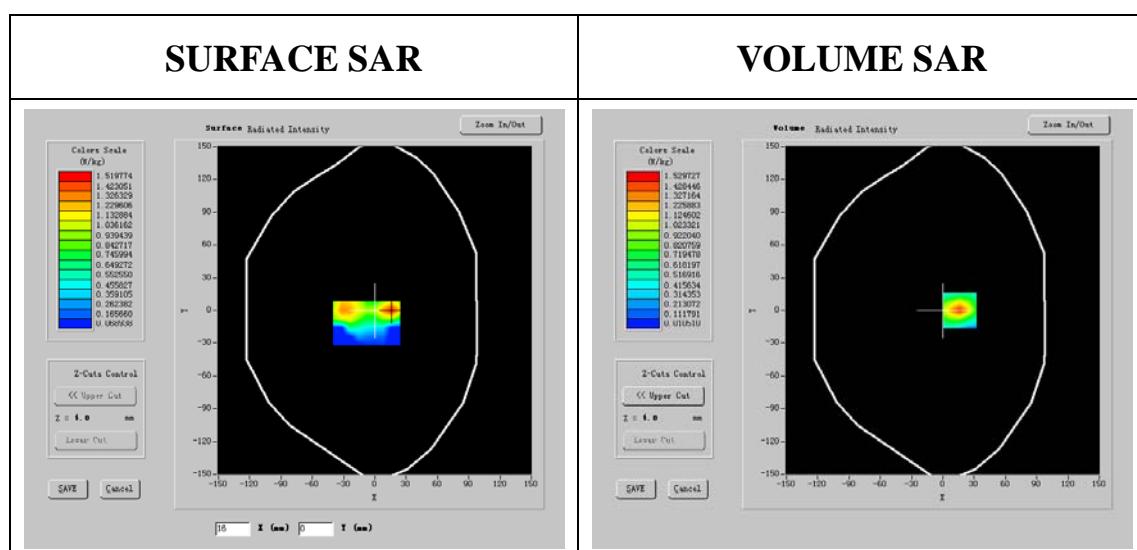
---

## **B. Instrumentations.**

|                         |   |
|-------------------------|---|
| <b>PC</b>               | HP (Pentium(R) V3.06GHz, SN:375052-AA1) |
| <b>Network Emulator</b> | R&S (CMU200, SN:B23-03291)              |
| <b>Voltmeter</b>        | Keithley (2000, SN:1015843)             |
| <b>Synthesizer</b>      | Agilent (E8257C, SN:MY43321570)         |
| <b>Amplifier</b>        | Mini-Circuits (ZHL-42, SN:110405)       |
| <b>Power Meter</b>      | Agilent (E4416A, SN:QB41292714)         |
| <b>Probe</b>            | Antennessa (SN:SN_11/09_EP_100)         |
| <b>Phantom</b>          | Antennessa (SN:SN41_05_SAM29)           |
| <b>Liquid</b>           | Antennessa                              |

## C. SAR Measurement Results

|   |             |
|---|-------------|
| <b>Frequency (MHz)</b>                        | 1784.599036 |
| <b>Relative permittivity (real part)</b>      | 52.813332   |
| <b>Relative permittivity (imaginary part)</b> | 14.319230   |
| <b>Conductivity (S/m)</b>                     | 1.513265    |
| <b>Variation (%)</b>                          | -0.130000   |



---

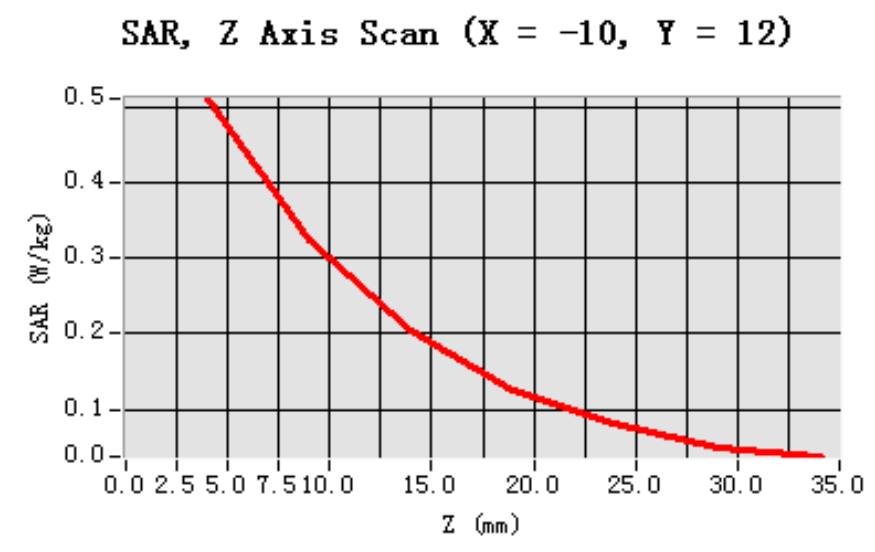
**Maximum location: X=2.00, Y=9.00**

|                      |          |
|----------------------|----------|
| <b>SAR 1g (W/Kg)</b> | 0.430474 |
|----------------------|----------|



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## Z Axis Scan



---

# Face down without earphone

|                      |
|----------------------|
| <b>MEASUREMENT 1</b> |
|----------------------|

Type: Phone measurement (Complete)

Date of measurement: 13/5/2010

Measurement duration: 6 minutes 46 seconds

Mobile Phone IMEI number: --

## **A. Experimental conditions.**

|                        |                              |
|------------------------|------------------------------|
| <b>Phantom File</b>    | zinf15.txt, Adaptative 2 max |
| <b>Phantom</b>         | Validation plane             |
| <b>Device Position</b> | Body                         |
| <b>Band</b>            | GPRS1900                     |
| <b>Channels</b>        | Low                          |
| <b>Signal</b>          | GPRS                         |

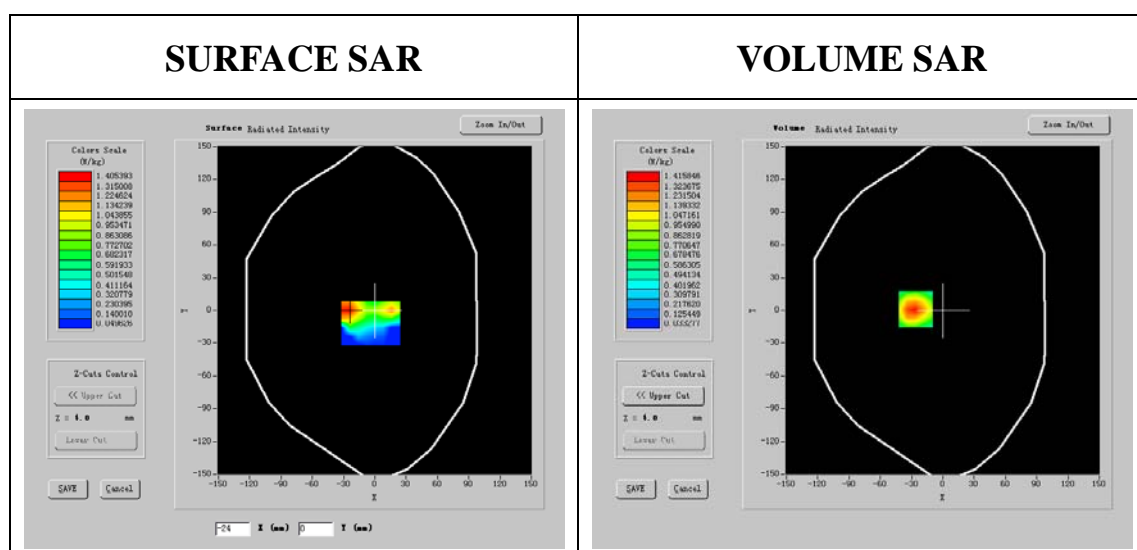
---

## **B. Instrumentations.**

|                         |   |
|-------------------------|---|
| <b>PC</b>               | HP (Pentium(R) V3.06GHz, SN:375052-AA1) |
| <b>Network Emulator</b> | R&S (CMU200, SN:B23-03291)              |
| <b>Voltmeter</b>        | Keithley (2000, SN:1015843)             |
| <b>Synthetizer</b>      | Agilent (E8257C, SN:MY43321570)         |
| <b>Amplifier</b>        | Mini-Circuits (ZHL-42, SN:110405)       |
| <b>Power Meter</b>      | Agilent (E4416A, SN:QB41292714)         |
| <b>Probe</b>            | Antennessa (SN:SN_11/09_EP_100)         |
| <b>Phantom</b>          | Antennessa (SN:SN41_05_SAM29)           |
| <b>Liquid</b>           | Antennessa                              |

### C. SAR Measurement Results

|  |             |
|--|-------------|
| Frequency (MHz)                        | 1710.199951 |
| Relative permittivity (real part)      | 52.347400   |
| Relative permittivity (imaginary part) | 14.450693   |
| Conductivity (S/m)                     | 1.510698    |
| Variation (%)                          | -0.400000   |



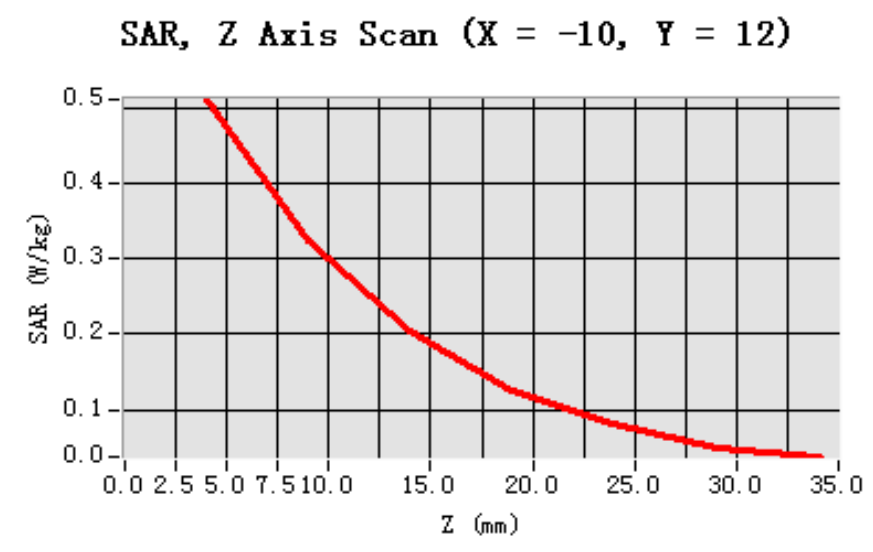
---

**Maximum location: X=-31.00, Y=-16.00**

|                      |          |
|----------------------|----------|
| <b>SAR 1g (W/Kg)</b> | 0.421471 |
|----------------------|----------|

---

## Z Axis Scan



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## MEASUREMENT 2

Type: Phone measurement (Complete)

Date of measurement: 13/5/2010

Measurement duration: 6 minutes 51 seconds

Mobile Phone IMEI number: --

### **A. Experimental conditions.**

|                        |                              |
|------------------------|------------------------------|
| <b>Phantom File</b>    | zinf15.txt, Adaptative 2 max |
| <b>Phantom</b>         | Validation plane             |
| <b>Device Position</b> | Body                         |
| <b>Band</b>            | GPRS1900                     |
| <b>Channels</b>        | Middle                       |
| <b>Signal</b>          | GPRS                         |

---

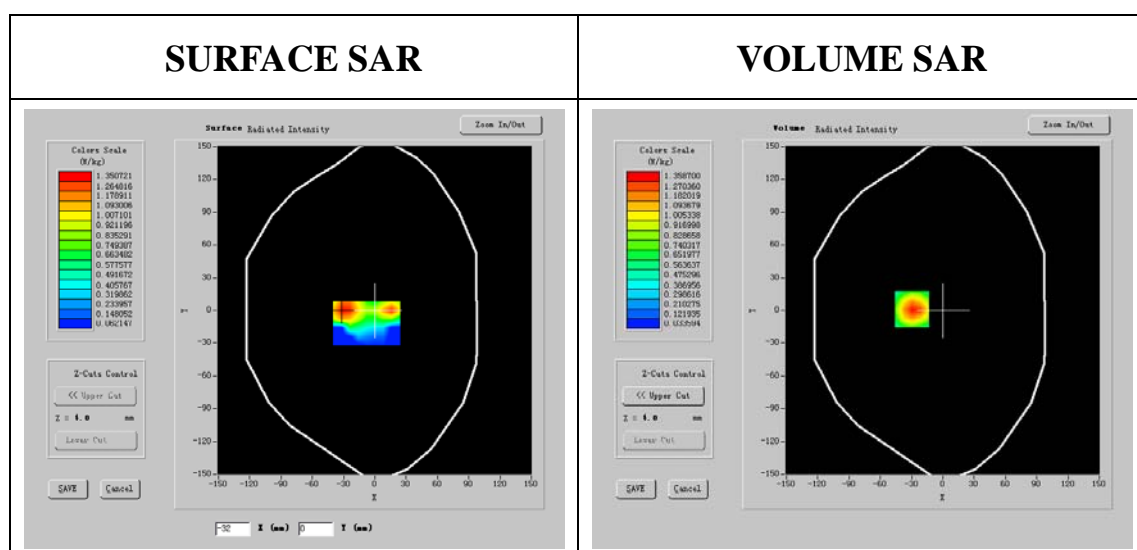
## **B. Instrumentations.**

|                         |   |
|-------------------------|---|
| <b>PC</b>               | HP (Pentium(R) V3.06GHz, SN:375052-AA1) |
| <b>Network Emulator</b> | R&S (CMU200, SN:B23-03291)              |
| <b>Voltmeter</b>        | Keithley (2000, SN:1015843)             |
| <b>Synthesizer</b>      | Agilent (E8257C, SN:MY43321570)         |
| <b>Amplifier</b>        | Mini-Circuits (ZHL-42, SN:110405)       |
| <b>Power Meter</b>      | Agilent (E4416A, SN:QB41292714)         |
| <b>Probe</b>            | Antennessa (SN:SN_11/09_EP_100)         |
| <b>Phantom</b>          | Antennessa (SN:SN41_05_SAM29)           |
| <b>Liquid</b>           | Antennessa                              |



## C. SAR Measurement Results

|   |             |
|---|-------------|
| <b>Frequency (MHz)</b>                        | 1747.400004 |
| <b>Relative permittivity (real part)</b>      | 52.421428   |
| <b>Relative permittivity (imaginary part)</b> | 14.301456   |
| <b>Conductivity (S/m)</b>                     | 1.515086    |
| <b>Variation (%)</b>                          | -1.000000   |



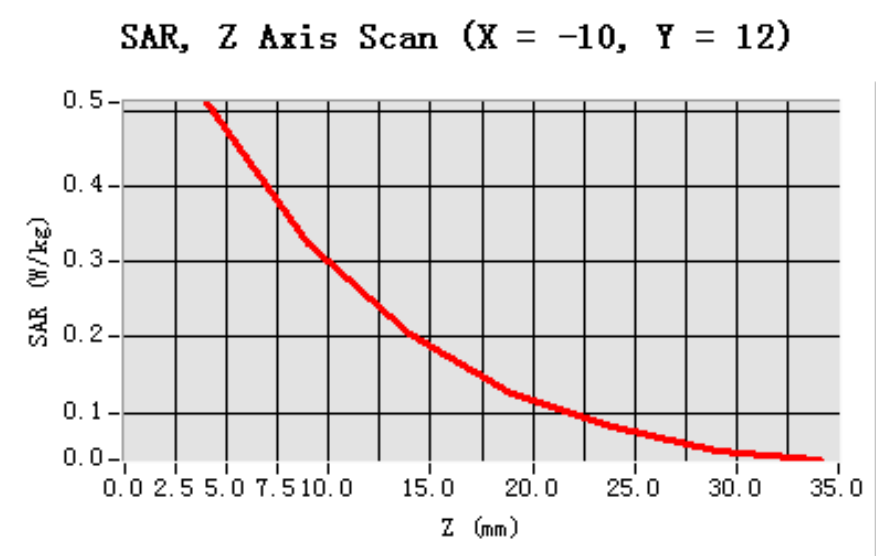
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**Maximum location: X=-31.00, Y=-16.00**

|                      |          |
|----------------------|----------|
| <b>SAR 1g (W/Kg)</b> | 0.410321 |
|----------------------|----------|

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## Z Axis Scan



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## MEASUREMENT 3

Type: Phone measurement (Complete)

Date of measurement: 13/5/2010

Measurement duration: 6 minutes 21 seconds

Mobile Phone IMEI number: --

### **A. Experimental conditions.**

|                        |                              |
|------------------------|------------------------------|
| <b>Phantom File</b>    | zinf15.txt, Adaptative 2 max |
| <b>Phantom</b>         | Validation plane             |
| <b>Device Position</b> | Body                         |
| <b>Band</b>            | GPRS1900                     |
| <b>Channels</b>        | High                         |
| <b>Signal</b>          | GPRS                         |

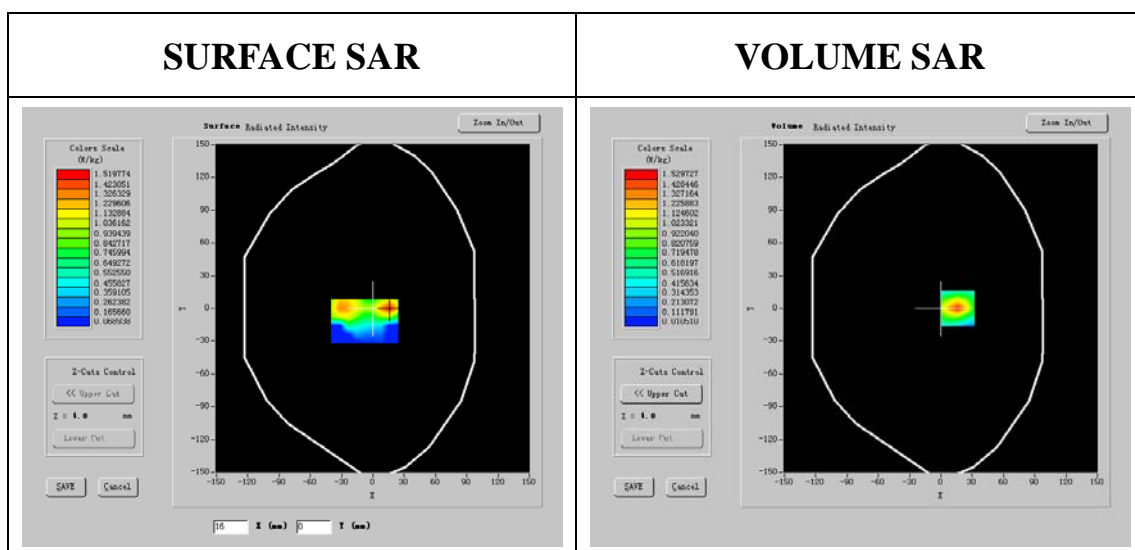
---

## **B. Instrumentations.**

|                         |   |
|-------------------------|---|
| <b>PC</b>               | HP (Pentium(R) V3.06GHz, SN:375052-AA1) |
| <b>Network Emulator</b> | R&S (CMU200, SN:B23-03291)              |
| <b>Voltmeter</b>        | Keithley (2000, SN:1015843)             |
| <b>Synthesizer</b>      | Agilent (E8257C, SN:MY43321570)         |
| <b>Amplifier</b>        | Mini-Circuits (ZHL-42, SN:110405)       |
| <b>Power Meter</b>      | Agilent (E4416A, SN:QB41292714)         |
| <b>Probe</b>            | Antennessa (SN:SN_11/09_EP_100)         |
| <b>Phantom</b>          | Antennessa (SN:SN41_05_SAM29)           |
| <b>Liquid</b>           | Antennessa                              |

## C. SAR Measurement Results

|   |             |
|---|-------------|
| <b>Frequency (MHz)</b>                        | 1784.599036 |
| <b>Relative permittivity (real part)</b>      | 52.802142   |
| <b>Relative permittivity (imaginary part)</b> | 14.319230   |
| <b>Conductivity (S/m)</b>                     | 1.502565    |
| <b>Variation (%)</b>                          | -0.130000   |



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**Maximum location: X=2.00, Y=9.00**

|                      |          |
|----------------------|----------|
| <b>SAR 1g (W/Kg)</b> | 0.426144 |
|----------------------|----------|

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## Z Axis Scan

