

	SAR Test Plots
	Project name :
	KS100409B01

EUT DESCRIPTION

Product name: HSDPA/WCDMA/EDGE/GPRS/GSM 850/900/1800/1900/2100MHz Mobile
 Phone
 Model No.:i-mobile i858
 Trade name:i-mobile
 FCCID:S2VTN100
 Tested date:April 16, 2010
 Applicant:YuHua TelTech (Shanghai) Co.,Ltd.
 4F/2, District B, No. 1000 Jinhai Road, Pudong 201206, Shanghai, P.R. China

Compliance Certification Services (Kunshan) Inc.
No.10, Weiye Rd., Innovation Park, Eco & Tec. Development Part,
Kunshan City, Jiangsu Province, PRC.
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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 <u>Measurement 2:</u> Right Head with Cheek device position on Middle Channel in GSM mode <u>Measurement 3:</u> Right Head with Cheek device position on High Channel in GSM mode <u>Measurement 4:</u> Right Head with Tilt device position on Low Channel in GSM mode <u>Measurement 5:</u> Right Head with Tilt device position on Middle Channel in GSM mode <u>Measurement 6:</u> Right Head with Tilt device position on High Channel in GSM mode <u>Measurement 7:</u> Left Head with Cheek device position on Low Channel in GSM mode <u>Measurement 8:</u> Left Head with Cheek device position on Middle Channel in GSM mode <u>Measurement 9:</u> Left Head with Cheek device position on High Channel in GSM mode <u>Measurement 10:</u> Left Head with Tilt device position on Low Channel in GSM mode <u>Measurement 11:</u> Left Head with Tilt device position on Middle Channel in GSM mode <u>Measurement 12:</u> Left Head with Tilt device position on High Channel in GSM mode <u>Measurement 13:</u> Validation Plane with Body device position on Low Channel in GSMmode <u>Measurement 14:</u> Validation Plane with Body device position on Middle Channel in GSM mode <u>Measurement 15:</u> Validation Plane with Body device position on High Channel in GSM mode

MEASUREMENT 1

Type: Phone measurement (Complete)

Date of measurement: 04/16/2010

Measurement duration: 19 minutes 56 seconds

Mobile Phone IMEI number: --

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

Crest Factor: GSM Duty cycle: 1:8

Medium parameters used: $f=824.2\text{MHz}$; $\sigma=41.49\text{mho/m}$; $\epsilon_r=0.92$; $\rho=1000\text{kg/m}^3$

Area Scan: 7 x 7 x 1 dx=15mm dy=15mm

Zoom Scan: 5 x 5 x 7 dx=5mm dy=5mm dz=5mm

Z Axis Scan: 1 x 1 x 21 dx=20mm dy=20mm dz=5mm

A. Experimental conditions.

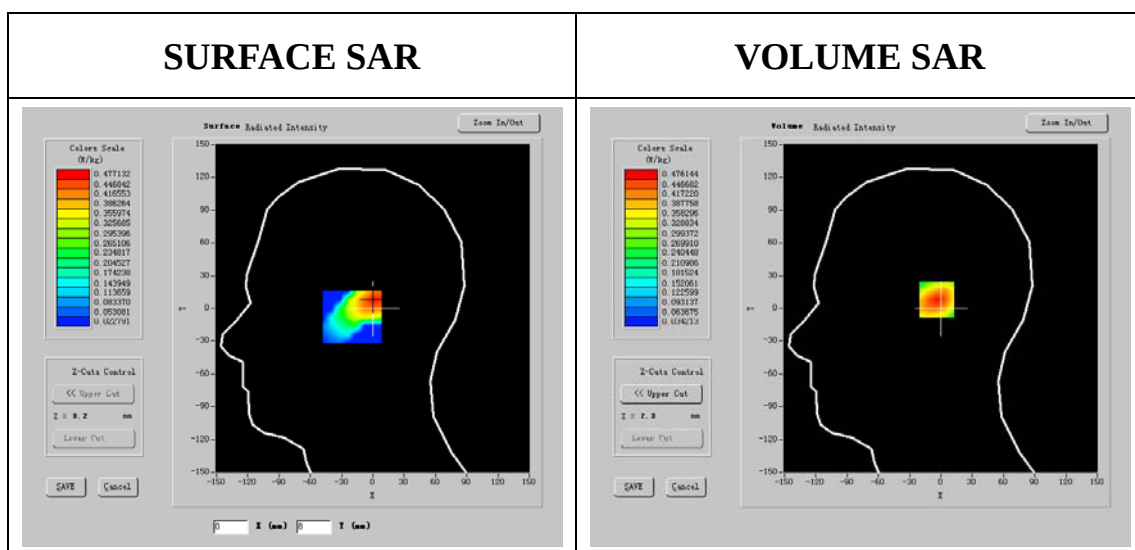
Phantom File	zinf15.txt, Adaptive 2 max
Phantom	Right head
Device Position	Cheek
Band	GSM850
Channels	Low
Signal	GSM

B. Instrumentations.

PC	HP (Pentium(R) V3.06GHz, SN:375052-AA1)	Calibrated: N/A
Network Emulator	R&S (CMU200, SN:B23-03291)	Calibrated: 06/17/2009
Voltmeter	Keithley (2000, SN:1015843)	Calibrated: 05/01/2009
Synthesizer	Agilent (E8257C, SN:MY43321570)	Calibrated: 08/07/2009
Amplifier	Mini-Circuits (ZHL-42, SN:110405)	Calibrated: 07/29/2009
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibrated: 07/29/2009
Probe	Antennessa (SN:SN_1109_EP_100)	Calibrated: 04/16/2009
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibrated: N/A
Liquid	Antennessa	Calibrated: N/A
Measurement SW:	OPEN SAR V2.1	Calibrated: N/A

C. SAR Measurement Results

Frequency (MHz)	824.200001
Relative permittivity (real part)	41.487542
Relative permittivity (imaginary part)	19.510000
Conductivity (S/m)	0.922200
Variation (%)	-1.450000

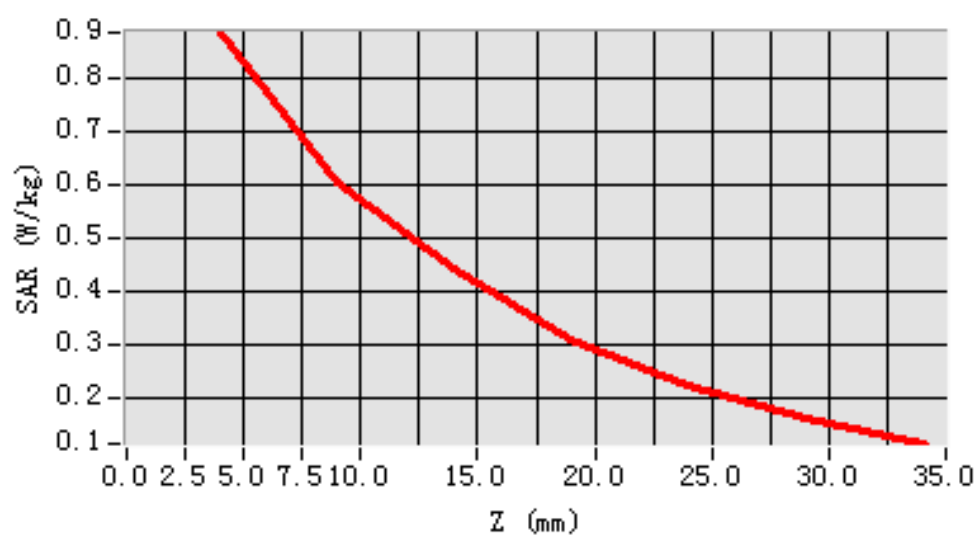


Maximum location: X=-13.00, Y=-3.00

SAR 10g (W/Kg)	0.101422
SAR 1g (W/Kg)	0.244631

Z Axis Scan

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



MEASUREMENT 2

Type: Phone measurement (Complete)

Date of measurement: 04/16/2010

Measurement duration: 19 minutes 56 seconds

Mobile Phone IMEI number: --

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

Crest Factor: GSM Duty cycle: 1:8

Medium parameters used: $f=836.6\text{MHz}$; $\sigma=41.45\text{mho/m}$; $\epsilon_r=0.92$; $\rho=1000\text{kg/m}^3$

Area Scan: 7 x 7 x 1

dx=15mm

dy=15mm

Zoom Scan: 5 x 5 x 7

dx=5mm

dy=5mm

dz=5mm

Z Axis Scan: 1 x 1 x 21

dx=20mm

dy=20mm

dz=5mm

A. Experimental conditions.

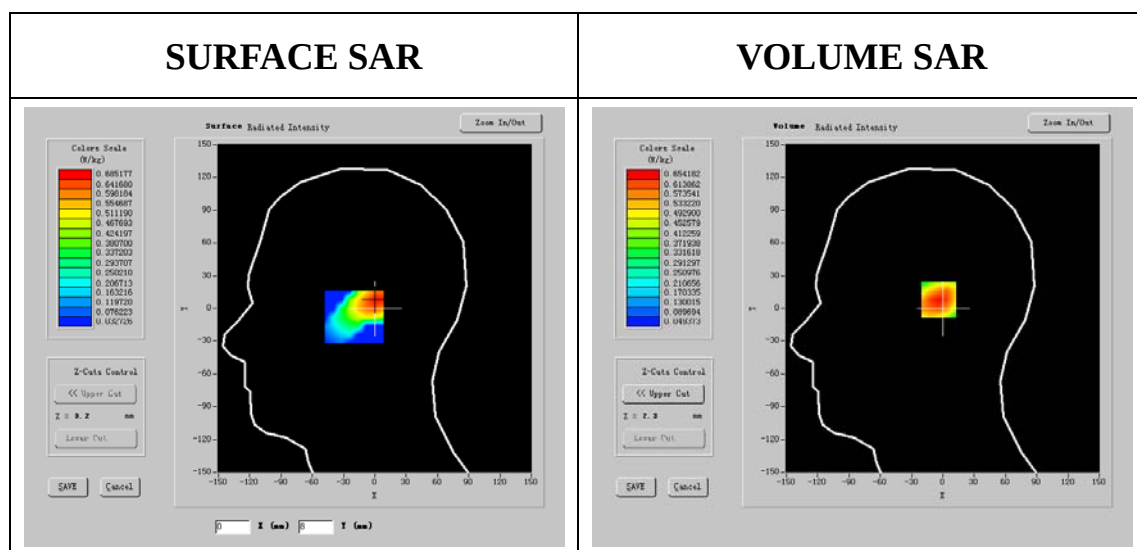
Phantom File	zinf15.txt, Adaptive 2 max
Phantom	Right head
Device Position	Cheek
Band	GSM850
Channels	Middle
Signal	GSM

B. Instrumentations.

PC	HP (Pentium(R) V3.06GHz, SN:375052-AA1)	Calibrated: N/A
Network Emulator	R&S (CMU200, SN:B23-03291)	Calibrated: 06/17/2009
Voltmeter	Keithley (2000, SN:1015843)	Calibrated: 05/01/2009
Synthetizer	Agilent (E8257C, SN:MY43321570)	Calibrated: 08/07/2009
Amplifier	Mini-Circuits (ZHL-42, SN:110405)	Calibrated: 07/29/2009
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibrated: 07/29/2009
Probe	Antennessa (SN:SN_1109_EP_100)	Calibrated: 04/16/2009
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibrated: N/A
Liquid	Antennessa	Calibrated: N/A
Measurement SW:	OPEN SAR V2.1	Calibrated: N/A

C. SAR Measurement Results

Frequency (MHz)	836.590001
Relative permittivity (real part)	41.450210
Relative permittivity (imaginary part)	19.523201
Conductivity (S/m)	0.916234
Variation (%)	-0.200000

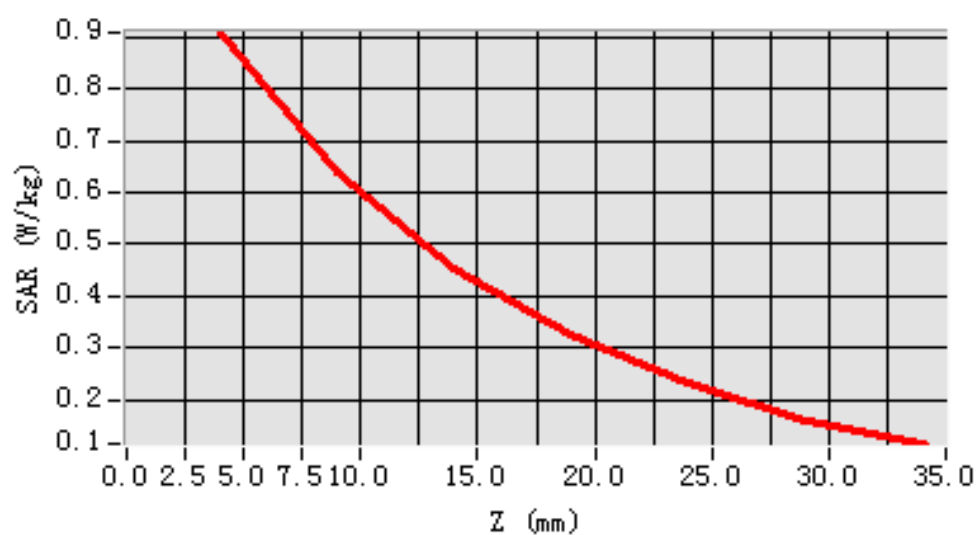


Maximum location: X=-13.00, Y=-3.00

SAR 10g (W/Kg)	0.112377
SAR 1g (W/Kg)	0.255083

Z Axis Scan

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



MEASUREMENT 3

Type: Phone measurement (Complete)

Date of measurement: 04/16/2010

Measurement duration: 19 minutes 56 seconds

Mobile Phone IMEI number: --

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

Crest Factor: GSM Duty cycle: 1:8

Medium parameters used: $f=848.8\text{MHz}$; $\sigma=41.39\text{mho/m}$; $\epsilon_r=0.92$; $\rho=1000\text{kg/m}^3$

Area Scan: 7 x 7 x 1

dx=15mm

dy=15mm

Zoom Scan: 5 x 5 x 7

dx=5mm

dy=5mm

dz=5mm

Z Axis Scan: 1 x 1 x 21

dx=20mm

dy=20mm

dz=5mm

A. Experimental conditions.

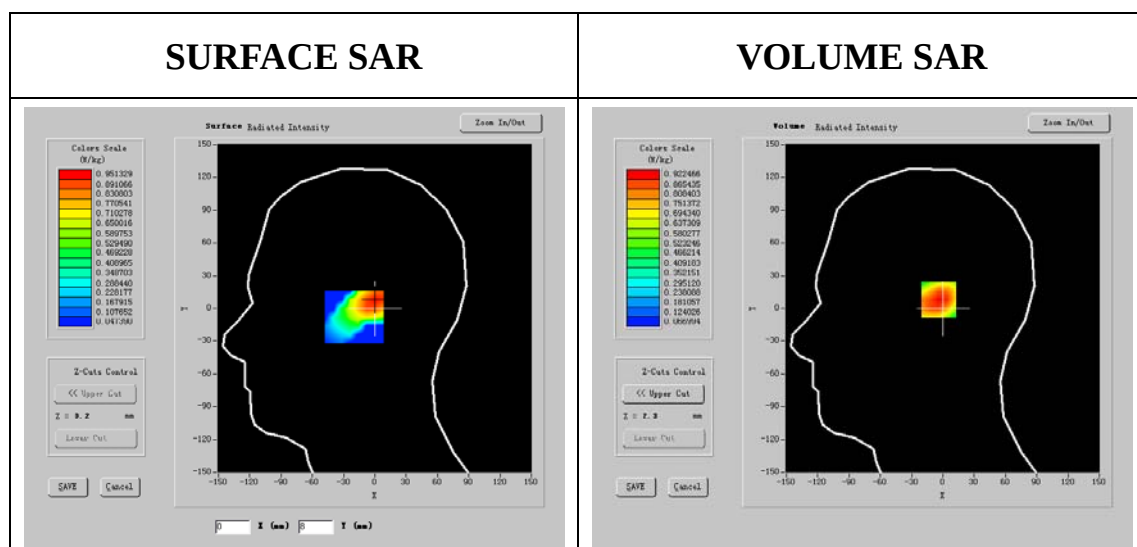
Phantom File	zinf15.txt, Adaptive 2 max
Phantom	Right head
Device Position	Cheek
Band	GSM850
Channels	High
Signal	GSM

B. Instrumentations.

PC	HP (Pentium(R) V3.06GHz, SN:375052-AA1)	Calibrated: N/A
Network Emulator	R&S (CMU200, SN:B23-03291)	Calibrated: 06/17/2009
Voltmeter	Keithley (2000, SN:1015843)	Calibrated: 05/01/2009
Synthetizer	Agilent (E8257C, SN:MY43321570)	Calibrated: 08/07/2009
Amplifier	Mini-Circuits (ZHL-42, SN:110405)	Calibrated: 07/29/2009
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibrated: 07/29/2009
Probe	Antennessa (SN:SN_1109_EP_100)	Calibrated: 04/16/2009
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibrated: N/A
Liquid	Antennessa	Calibrated: N/A
Measurement SW:	OPEN SAR V2.1	Calibrated: N/A

C. SAR Measurement Results

Frequency (MHz)	848.799999
Relative permittivity (real part)	41.392410
Relative permittivity (imaginary part)	19.603210
Conductivity (S/m)	0.922146
Variation (%)	-0.200000

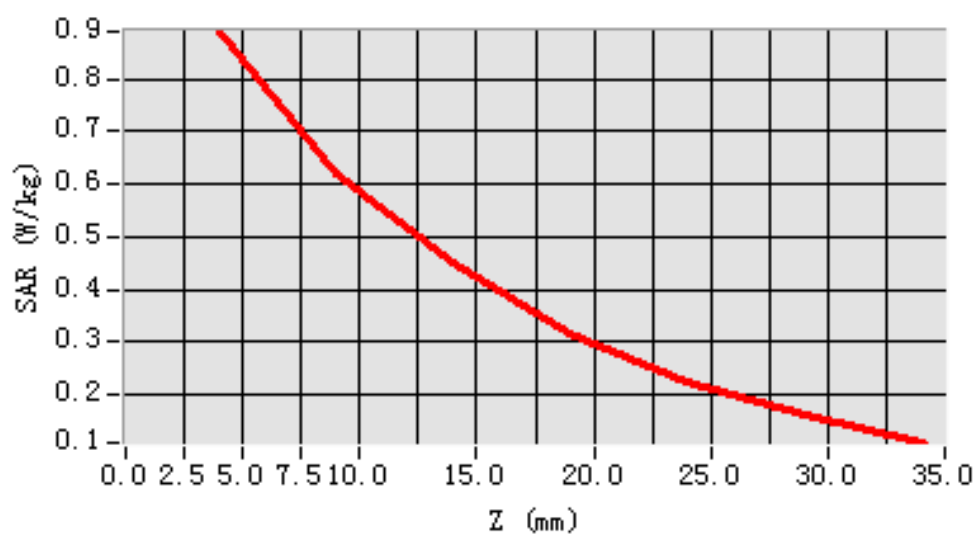


Maximum location: X=-13.00, Y=-3.00

SAR 10g (W/Kg)	0.108977
SAR 1g (W/Kg)	0.248301

Z Axis Scan

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



MEASUREMENT 4

Type: Phone measurement (Complete)

Date of measurement: 04/16/2010

Measurement duration: 19 minutes 47 seconds

Mobile Phone IMEI number: --

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

Crest Factor: GSM Duty cycle: 1:8

Medium parameters used: $f=824.2\text{MHz}$; $\sigma=41.45\text{mho/m}$; $\epsilon_r=0.92$; $\rho=1000\text{kg/m}^3$

Area Scan: 7 x 7 x 1

dx=15mm

dy=15mm

Zoom Scan: 5 x 5 x 7

dx=5mm

dy=5mm

dz=5mm

Z Axis Scan: 1 x 1 x 21

dx=20mm

dy=20mm

dz=5mm

A. Experimental conditions.

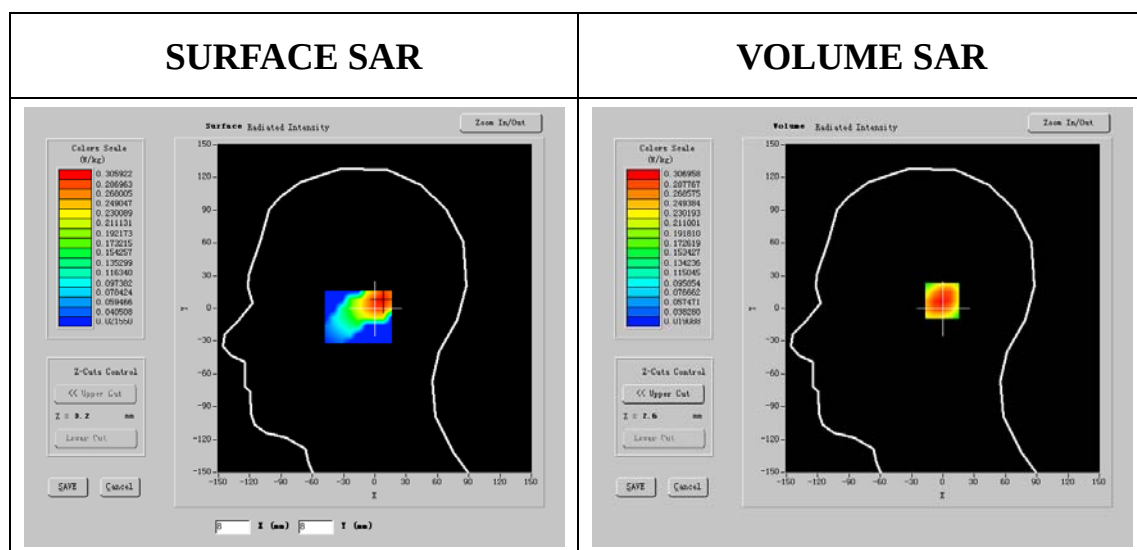
Phantom File	zinf15.txt, Adaptive 2 max
Phantom	Right head
Device Position	Tilt
Band	GSM850
Channels	Low
Signal	GSM

B. Instrumentations.

PC	HP (Pentium(R) V3.06GHz, SN:375052-AA1)	Calibrated: N/A
Network Emulator	R&S (CMU200, SN:B23-03291)	Calibrated: 06/17/2009
Voltmeter	Keithley (2000, SN:1015843)	Calibrated: 05/01/2009
Synthetizer	Agilent (E8257C, SN:MY43321570)	Calibrated: 08/07/2009
Amplifier	Mini-Circuits (ZHL-42, SN:110405)	Calibrated: 07/29/2009
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibrated: 07/29/2009
Probe	Antennessa (SN:SN_1109_EP_100)	Calibrated: 04/16/2009
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibrated: N/A
Liquid	Antennessa	Calibrated: N/A
Measurement SW:	OPEN SAR V2.1	Calibrated: N/A

C. SAR Measurement Results

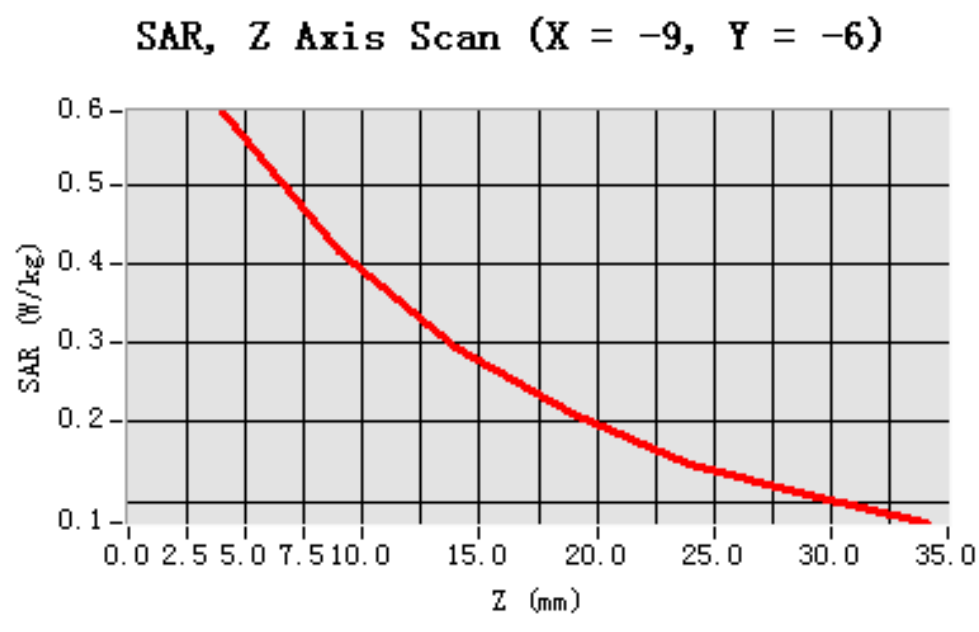
Frequency (MHz)	824.202012
Relative permittivity (real part)	41.452019
Relative permittivity (imaginary part)	19.572401
Conductivity (S/m)	0.915242
Variation (%)	-1.300000



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

SAR 10g (W/Kg)	0.077643
SAR 1g (W/Kg)	0.142308

Z Axis Scan



MEASUREMENT 5

Type: Phone measurement (Complete)

Date of measurement: 04/16/2010

Measurement duration: 19 minutes 47 seconds

Mobile Phone IMEI number: --

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

Crest Factor: GSM Duty cycle: 1:8

Medium parameters used: $f=836.6\text{MHz}$; $\sigma=41.46\text{mho/m}$; $\epsilon_r=0.92$; $\rho=1000\text{kg/m}^3$

Area Scan: 7 x 7 x 1

dx=15mm

dy=15mm

Zoom Scan: 5 x 5 x 7

dx=5mm

dy=5mm

dz=5mm

Z Axis Scan: 1 x 1 x 21

dx=20mm

dy=20mm

dz=5mm

A. Experimental conditions.

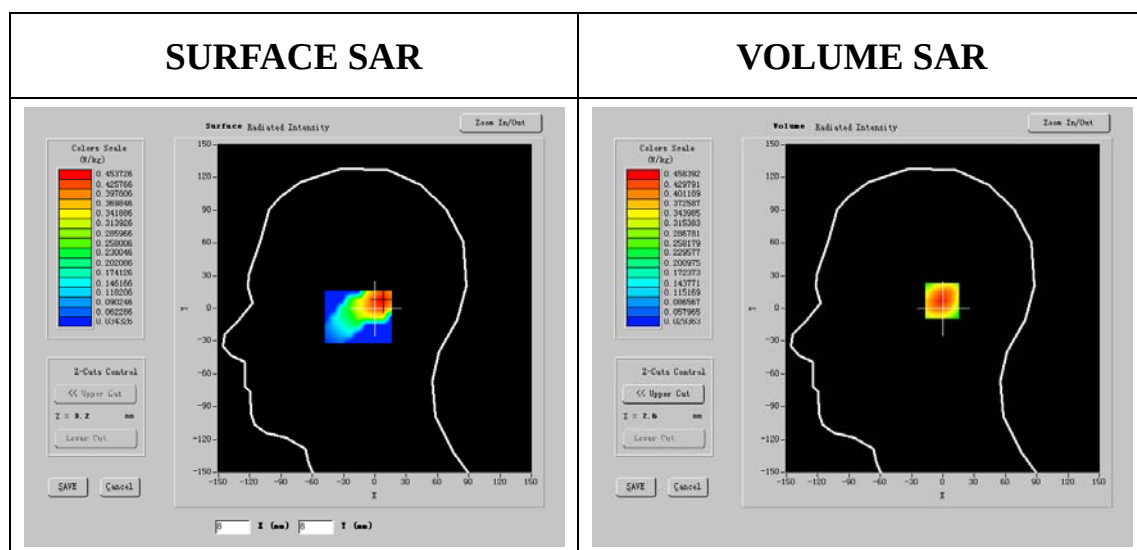
Phantom File	zinf15.txt, Adaptive 2 max
Phantom	Right head
Device Position	Tilt
Band	GSM850
Channels	Middle
Signal	GSM

B. Instrumentations.

PC	HP (Pentium(R) V3.06GHz, SN:375052-AA1)	Calibrated: N/A
Network Emulator	R&S (CMU200, SN:B23-03291)	Calibrated: 06/17/2009
Voltmeter	Keithley (2000, SN:1015843)	Calibrated: 05/01/2009
Synthetizer	Agilent (E8257C, SN:MY43321570)	Calibrated: 08/07/2009
Amplifier	Mini-Circuits (ZHL-42, SN:110405)	Calibrated: 07/29/2009
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibrated: 07/29/2009
Probe	Antennessa (SN:SN_1109_EP_100)	Calibrated: 04/16/2009
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibrated: N/A
Liquid	Antennessa	Calibrated: N/A
Measurement SW:	OPEN SAR V2.1	Calibrated: N/A

C. SAR Measurement Results

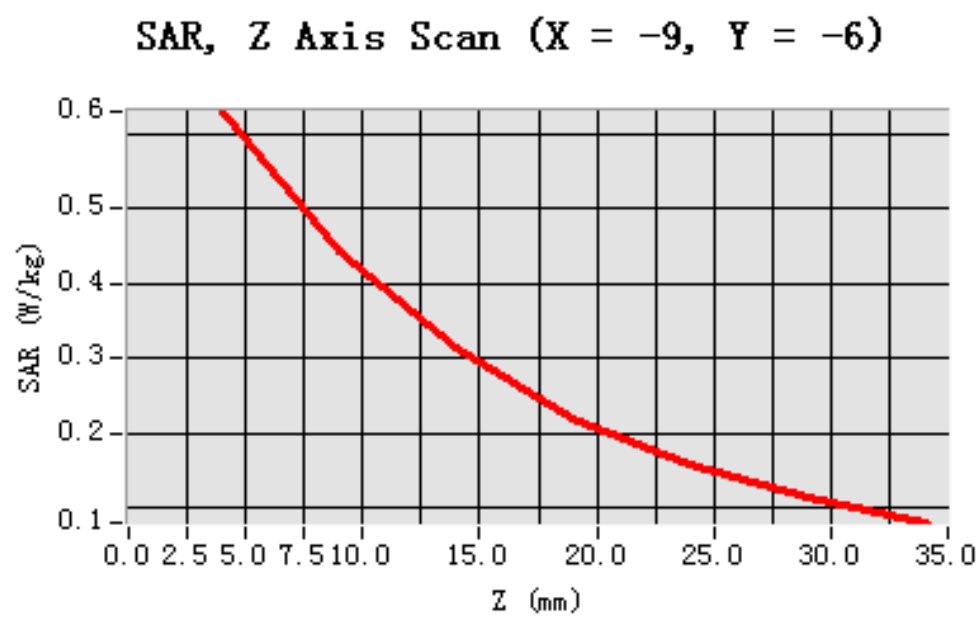
Frequency (MHz)	836.600210
Relative permittivity (real part)	41.462109
Relative permittivity (imaginary part)	19.572001
Conductivity (S/m)	0.920120
Variation (%)	-0.890000



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

SAR 10g (W/Kg)	0.088971
SAR 1g (W/Kg)	0.162744

Z Axis Scan



MEASUREMENT 6

Type: Phone measurement (Complete)

Date of measurement: 04/16/2010

Measurement duration: 19 minutes 47 seconds

Mobile Phone IMEI number: --

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

Crest Factor: GSM Duty cycle: 1:8

Medium parameters used: $f=848.8\text{MHz}$; $\sigma=41.42\text{mho/m}$; $\epsilon_r=0.92$; $\rho=1000\text{kg/m}^3$

Area Scan: 7 x 7 x 1

dx=15mm

dy=15mm

Zoom Scan: 5 x 5 x 7

dx=5mm

dy=5mm

dz=5mm

Z Axis Scan: 1 x 1 x 21

dx=20mm

dy=20mm

dz=5mm

A. Experimental conditions.

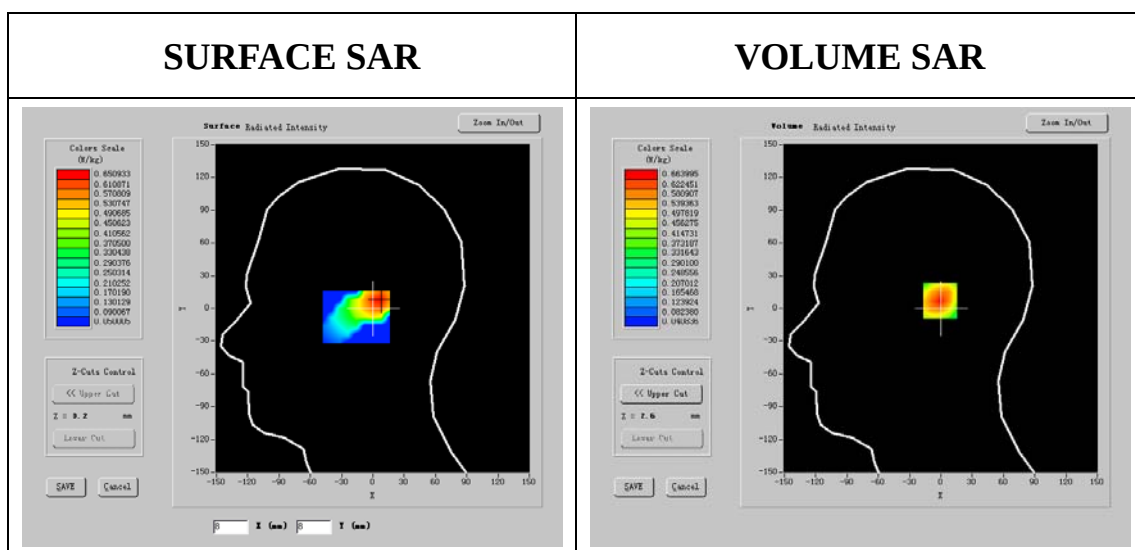
Phantom File	zinf15.txt, Adaptive 2 max
Phantom	Right head
Device Position	Tilt
Band	GSM850
Channels	High
Signal	GSM

B. Instrumentations.

PC	HP (Pentium(R) V3.06GHz, SN:375052-AA1)	Calibrated: N/A
Network Emulator	R&S (CMU200, SN:B23-03291)	Calibrated: 06/17/2009
Voltmeter	Keithley (2000, SN:1015843)	Calibrated: 05/01/2009
Synthetizer	Agilent (E8257C, SN:MY43321570)	Calibrated: 08/07/2009
Amplifier	Mini-Circuits (ZHL-42, SN:110405)	Calibrated: 07/29/2009
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibrated: 07/29/2009
Probe	Antennessa (SN:SN_1109_EP_100)	Calibrated: 04/16/2009
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibrated: N/A
Liquid	Antennessa	Calibrated: N/A
Measurement SW:	OPEN SAR V2.1	Calibrated: N/A

C. SAR Measurement Results

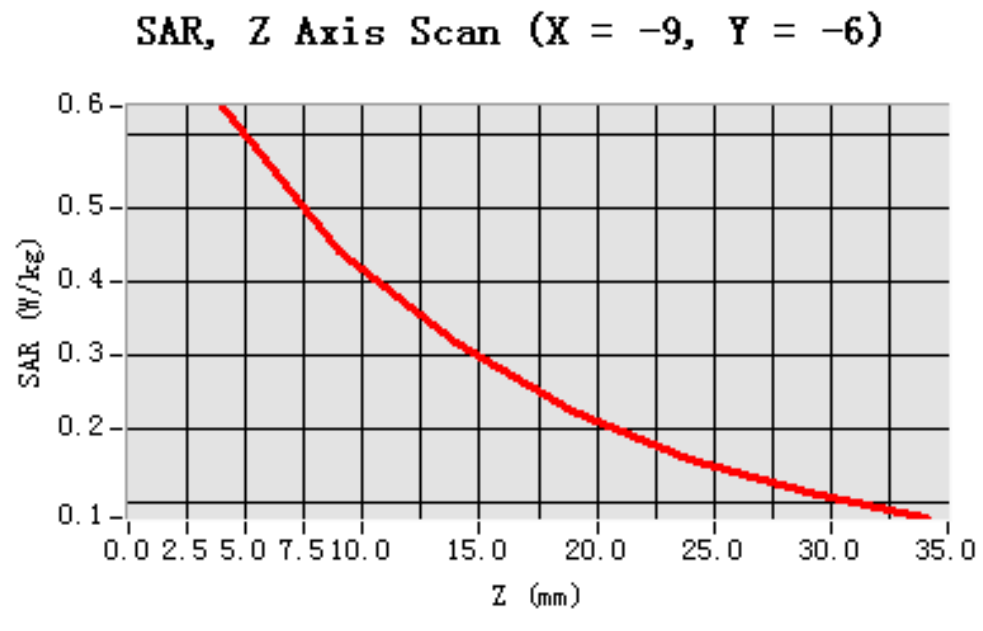
Frequency (MHz)	848.799000
Relative permittivity (real part)	41.421001
Relative permittivity (imaginary part)	19.586200
Conductivity (S/m)	0.923346
Variation (%)	-0.400000



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

SAR 10g (W/Kg)	0.081444
SAR 1g (W/Kg)	0.150498

Z Axis Scan



MEASUREMENT 7

Type: Phone measurement (Complete)

Date of measurement: 04/16/2010

Measurement duration: 20 minutes 2 seconds

Mobile Phone IMEI number: --

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

Crest Factor: GSM Duty cycle: 1:8

Medium parameters used: $f=824.2\text{MHz}$; $\sigma=41.46\text{mho/m}$; $\epsilon_r=0.89$; $\rho=1000\text{kg/m}^3$

Area Scan: 7 x 7 x 1

dx=15mm

dy=15mm

Zoom Scan: 5 x 5 x 7

dx=5mm

dy=5mm

dz=5mm

Z Axis Scan: 1 x 1 x 21

dx=20mm

dy=20mm

dz=5mm

A. Experimental conditions.

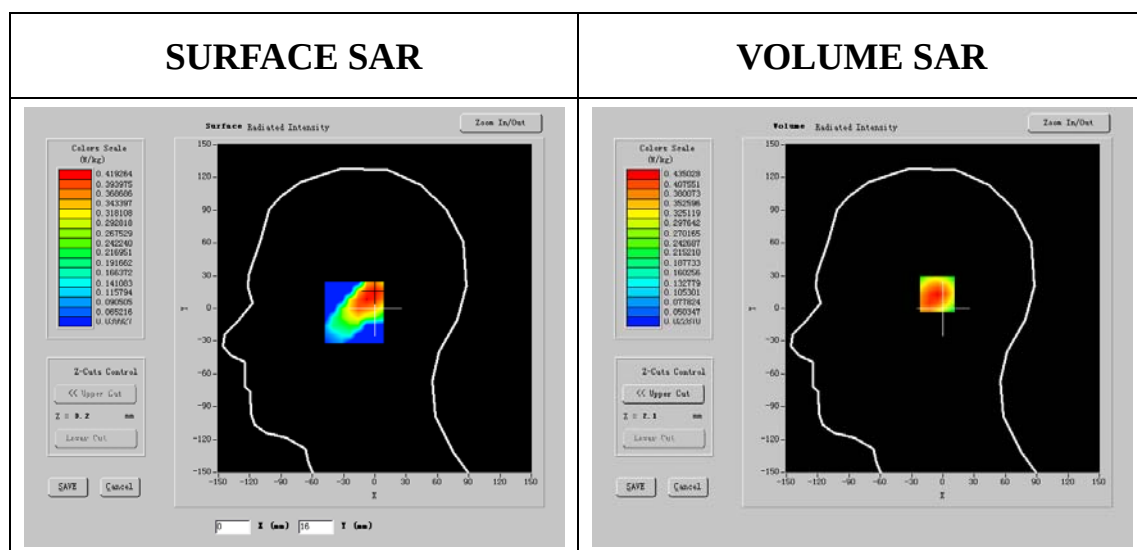
Phantom File	zinf15.txt, Adaptive 2 max
Phantom	Left head
Device Position	Cheek
Band	GSM850
Channels	Low
Signal	GSM

B. Instrumentations.

PC	HP (Pentium(R) V3.06GHz, SN:375052-AA1)	Calibrated: N/A
Network Emulator	R&S (CMU200, SN:B23-03291)	Calibrated: 06/17/2009
Voltmeter	Keithley (2000, SN:1015843)	Calibrated: 05/01/2009
Synthetizer	Agilent (E8257C, SN:MY43321570)	Calibrated: 08/07/2009
Amplifier	Mini-Circuits (ZHL-42, SN:110405)	Calibrated: 07/29/2009
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibrated: 07/29/2009
Probe	Antennessa (SN:SN_1109_EP_100)	Calibrated: 04/16/2009
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibrated: N/A
Liquid	Antennessa	Calibrated: N/A
Measurement SW:	OPEN SAR V2.1	Calibrated: N/A

C. SAR Measurement Results

Frequency (MHz)	824.203202
Relative permittivity (real part)	41.462099
Relative permittivity (imaginary part)	19.565206
Conductivity (S/m)	0.892142
Variation (%)	-0.250000

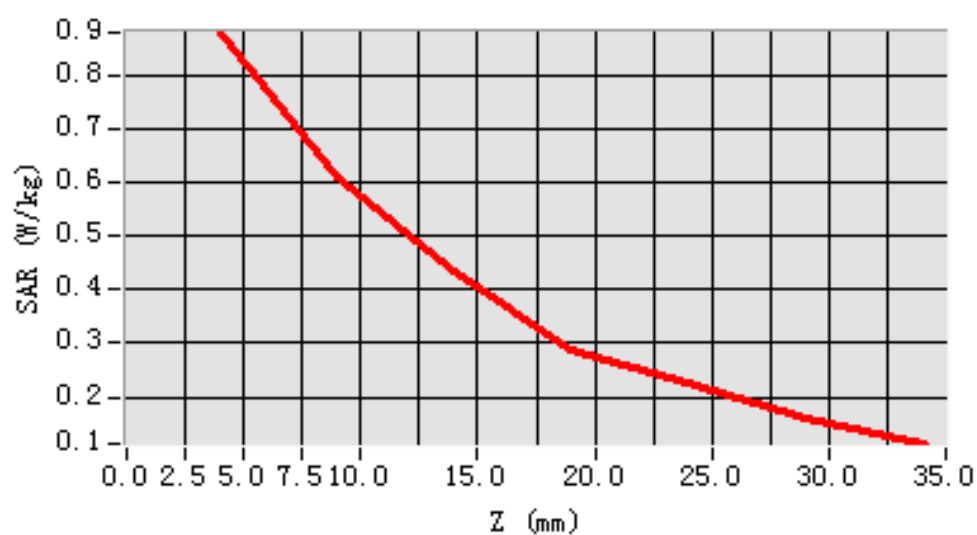


Maximum location: X=-25.00, Y=-11.00

SAR 10g (W/Kg)	0.114952
SAR 1g (W/Kg)	0.266334

Z Axis Scan

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



MEASUREMENT 8

Type: Phone measurement (Complete)

Date of measurement: 04/16/2010

Measurement duration: 20 minutes 2 seconds

Mobile Phone IMEI number: --

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

Crest Factor: GSM Duty cycle: 1:8

Medium parameters used: $f=836.6\text{MHz}$; $\sigma=41.47\text{mho/m}$; $\epsilon_r=0.92$; $\rho=1000\text{kg/m}^3$

Area Scan: 7 x 7 x 1

dx=15mm

dy=15mm

Zoom Scan: 5 x 5 x 7

dx=5mm

dy=5mm

dz=5mm

Z Axis Scan: 1 x 1 x 21

dx=20mm

dy=20mm

dz=5mm

A. Experimental conditions.

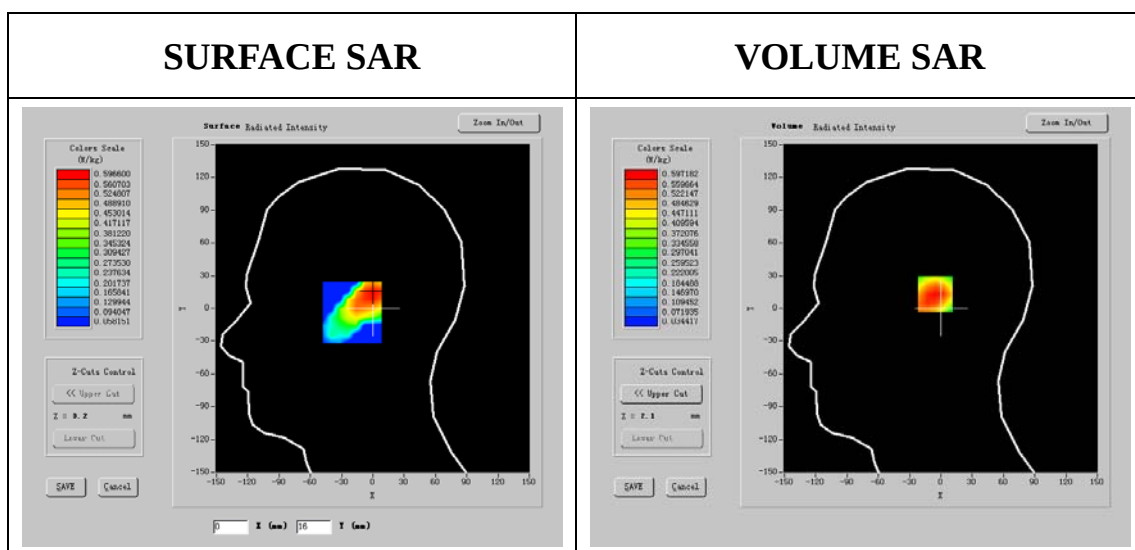
Phantom File	zinf15.txt, Adaptive 2 max
Phantom	Left head
Device Position	Cheek
Band	GSM850
Channels	Middle
Signal	GSM

B. Instrumentations.

PC	HP (Pentium(R) V3.06GHz, SN:375052-AA1)	Calibrated: N/A
Network Emulator	R&S (CMU200, SN:B23-03291)	Calibrated: 06/17/2009
Voltmeter	Keithley (2000, SN:1015843)	Calibrated: 05/01/2009
Synthetizer	Agilent (E8257C, SN:MY43321570)	Calibrated: 08/07/2009
Amplifier	Mini-Circuits (ZHL-42, SN:110405)	Calibrated: 07/29/2009
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibrated: 07/29/2009
Probe	Antennessa (SN:SN_1109_EP_100)	Calibrated: 04/16/2009
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibrated: N/A
Liquid	Antennessa	Calibrated: N/A
Measurement SW:	OPEN SAR V2.1	Calibrated: N/A

C. SAR Measurement Results

Frequency (MHz)	836.600010
Relative permittivity (real part)	41.470019
Relative permittivity (imaginary part)	19.576201
Conductivity (S/m)	0.919241
Variation (%)	-0.230000

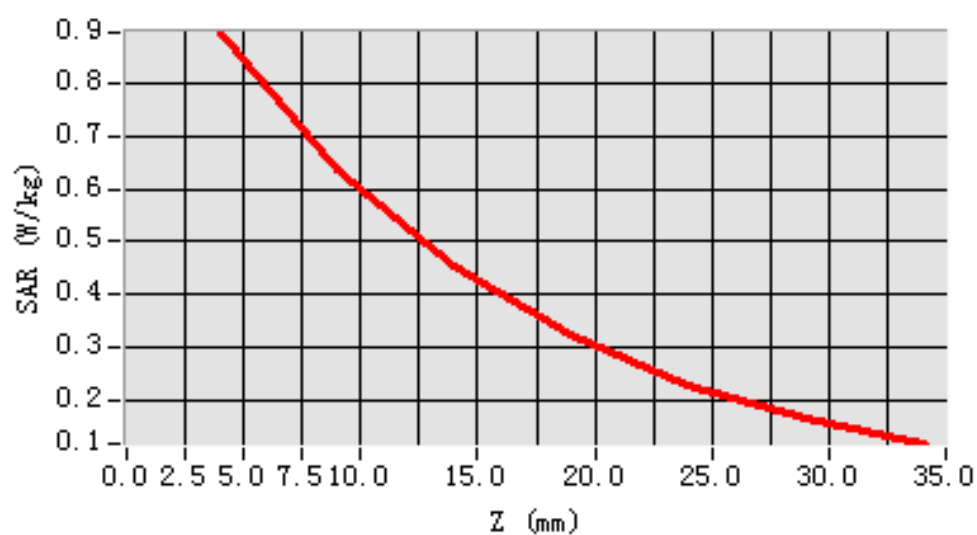


Maximum location: X=-25.00, Y=-11.00

SAR 10g (W/Kg)	0.275110
SAR 1g (W/Kg)	0.120478

Z Axis Scan

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



MEASUREMENT 9

Type: Phone measurement (Complete)

Date of measurement: 04/16/2010

Measurement duration: 20 minutes 2 seconds

Mobile Phone IMEI number: --

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

Crest Factor: GSM Duty cycle: 1:8

Medium parameters used: $f=848.8\text{MHz}$; $\sigma=41.41\text{mho/m}$; $\epsilon_r=0.93$; $\rho=1000\text{kg/m}^3$

Area Scan: 7 x 7 x 1

dx=15mm

dy=15mm

Zoom Scan: 5 x 5 x 7

dx=5mm

dy=5mm

dz=5mm

Z Axis Scan: 1 x 1 x 21

dx=20mm

dy=20mm

dz=5mm

A. Experimental conditions.

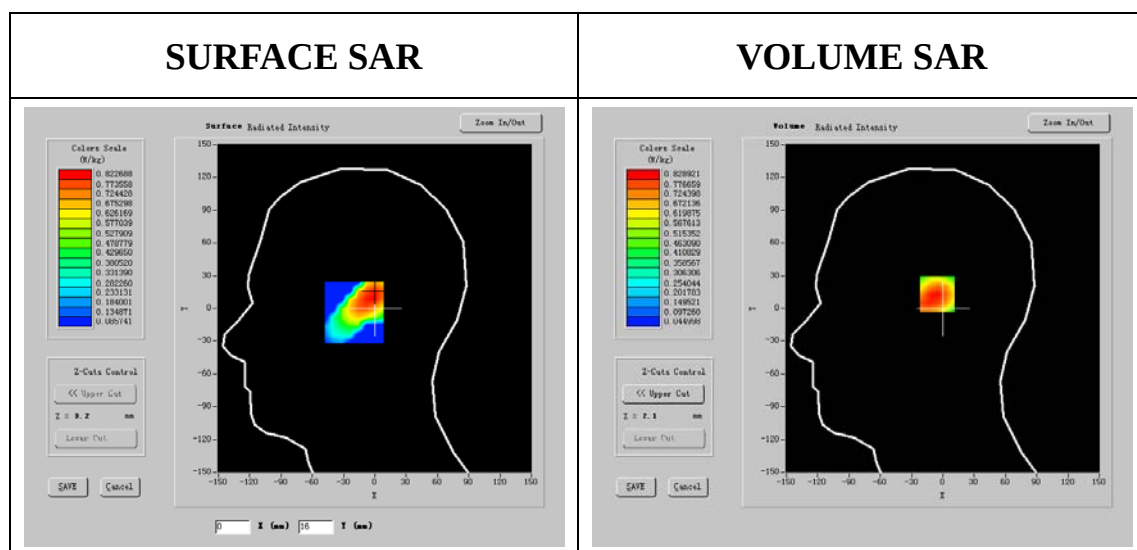
Phantom File	zinf15.txt, Adaptive 2 max
Phantom	Left head
Device Position	Cheek
Band	GSM850
Channels	High
Signal	GSM

B. Instrumentations.

PC	HP (Pentium(R) V3.06GHz, SN:375052-AA1)	Calibrated: N/A
Network Emulator	R&S (CMU200, SN:B23-03291)	Calibrated: 06/17/2009
Voltmeter	Keithley (2000, SN:1015843)	Calibrated: 05/01/2009
Synthetizer	Agilent (E8257C, SN:MY43321570)	Calibrated: 08/07/2009
Amplifier	Mini-Circuits (ZHL-42, SN:110405)	Calibrated: 07/29/2009
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibrated: 07/29/2009
Probe	Antennessa (SN:SN_1109_EP_100)	Calibrated: 04/16/2009
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibrated: N/A
Liquid	Antennessa	Calibrated: N/A
Measurement SW:	OPEN SAR V2.1	Calibrated: N/A

C. SAR Measurement Results

Frequency (MHz)	848.592416
Relative permittivity (real part)	41.414521
Relative permittivity (imaginary part)	19.575200
Conductivity (S/m)	0.930120
Variation (%)	-1.300000

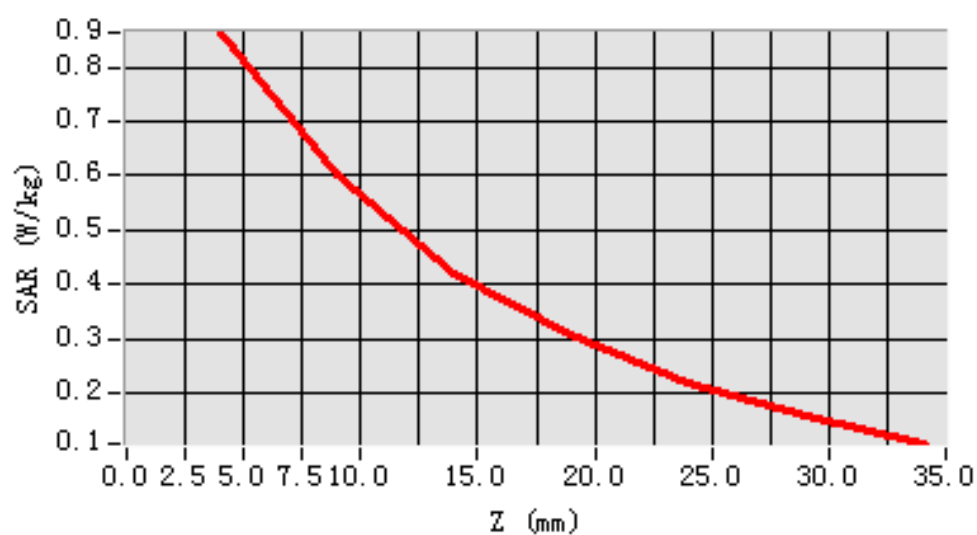


Maximum location: X=-25.00, Y=-11.00

SAR 10g (W/Kg)	0.109334
SAR 1g (W/Kg)	0.260147

Z Axis Scan

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



MEASUREMENT 10

Type: Phone measurement (Complete)

Date of measurement: 04/16/2010

Measurement duration: 19 minutes 49 seconds

Mobile Phone IMEI number: --

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

Crest Factor: GSM Duty cycle: 1:8

Medium parameters used: $f=824.2\text{MHz}$; $\sigma=41.45\text{mho/m}$; $\epsilon_r=0.92$; $\rho=1000\text{kg/m}^3$

Area Scan: 7 x 7 x 1 dx=15mm dy=15mm

Zoom Scan: 5 x 5 x 7 dx=5mm dy=5mm dz=5mm

Z Axis Scan: 1 x 1 x 21 dx=20mm dy=20mm dz=5mm

A. Experimental conditions.

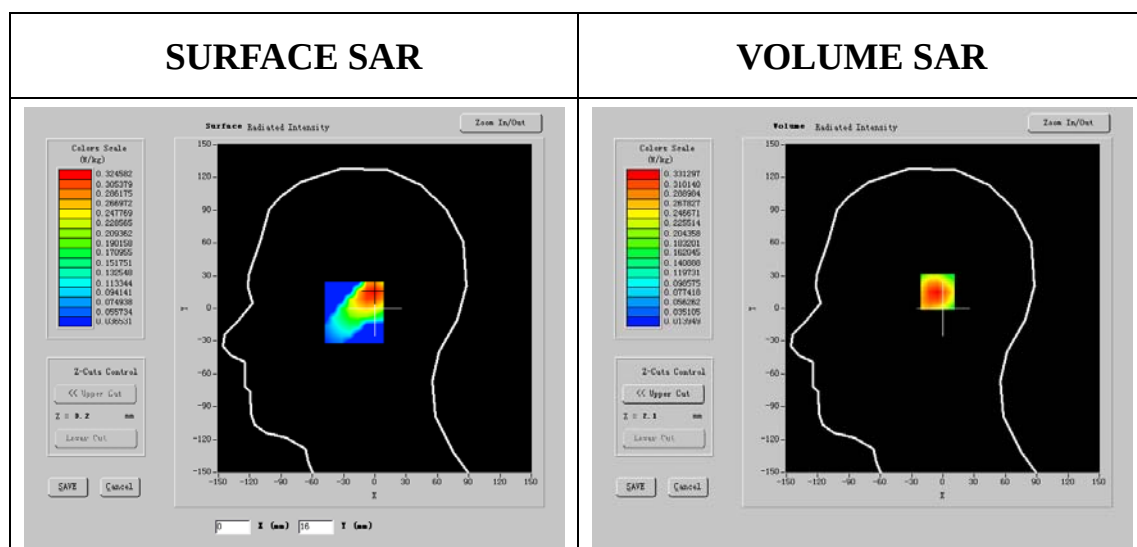
Phantom File	zinf15.txt, Adaptive 2 max
Phantom	Left head
Device Position	Tilt
Band	GSM850
Channels	Low
Signal	GSM

B. Instrumentations.

PC	HP (Pentium(R) V3.06GHz, SN:375052-AA1)	Calibrated: N/A
Network Emulator	R&S (CMU200, SN:B23-03291)	Calibrated: 06/17/2009
Voltmeter	Keithley (2000, SN:1015843)	Calibrated: 05/01/2009
Synthesizer	Agilent (E8257C, SN:MY43321570)	Calibrated: 08/07/2009
Amplifier	Mini-Circuits (ZHL-42, SN:110405)	Calibrated: 07/29/2009
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibrated: 07/29/2009
Probe	Antennessa (SN:SN_1109_EP_100)	Calibrated: 04/16/2009
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibrated: N/A
Liquid	Antennessa	Calibrated: N/A
Measurement SW:	OPEN SAR V2.1	Calibrated: N/A

C. SAR Measurement Results

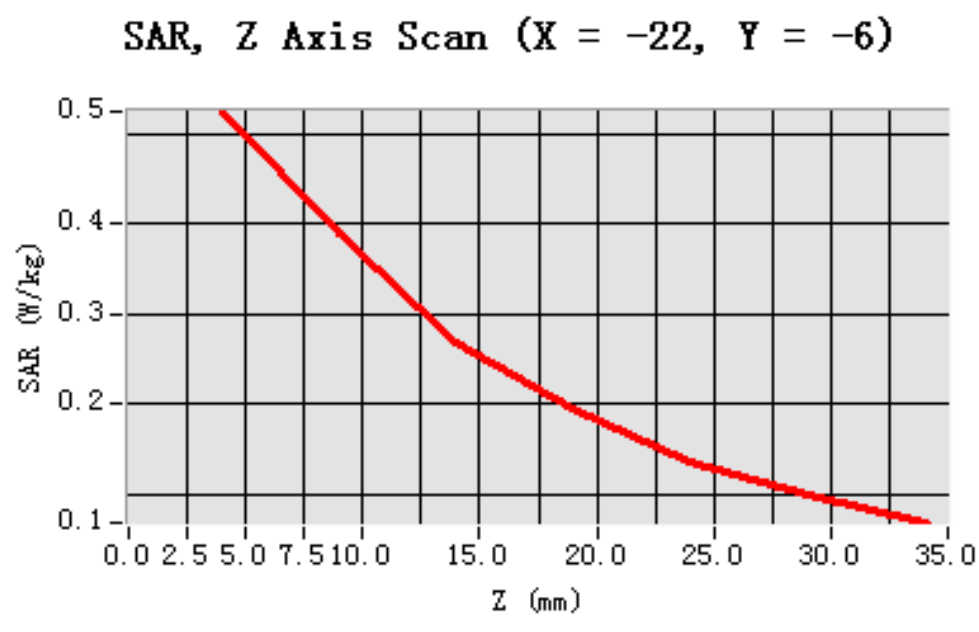
Frequency (MHz)	824.203202
Relative permittivity (real part)	41.452501
Relative permittivity (imaginary part)	19.582103
Conductivity (S/m)	0.920212
Variation (%)	-0.200000



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

SAR 10g (W/Kg)	0.110358
SAR 1g (W/Kg)	0.162344

Z Axis Scan



MEASUREMENT 11

Type: Phone measurement (Complete)

Date of measurement: 04/16/2010

Measurement duration: 19 minutes 49 seconds

Mobile Phone IMEI number: --

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

Crest Factor: GSM Duty cycle: 1:8

Medium parameters used: $f=836.6\text{MHz}$; $\sigma=41.46\text{mho/m}$; $\epsilon_r=0.92$; $\rho=1000\text{kg/m}^3$

Area Scan: 7 x 7 x 1 dx=15mm dy=15mm

Zoom Scan: 5 x 5 x 7 dx=5mm dy=5mm dz=5mm

Z Axis Scan: 1 x 1 x 21 dx=20mm dy=20mm dz=5mm

A. Experimental conditions.

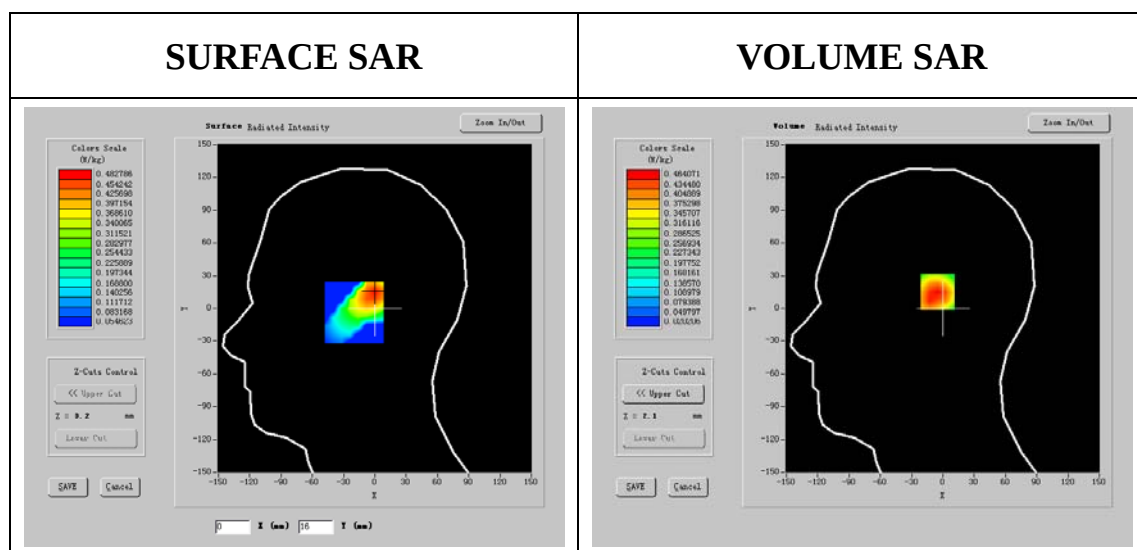
Phantom File	zinf15.txt, Adaptive 2 max
Phantom	Left head
Device Position	Tilt
Band	GSM850
Channels	Middle
Signal	GSM

B. Instrumentations.

PC	HP (Pentium(R) V3.06GHz, SN:375052-AA1)	Calibrated: N/A
Network Emulator	R&S (CMU200, SN:B23-03291)	Calibrated: 06/17/2009
Voltmeter	Keithley (2000, SN:1015843)	Calibrated: 05/01/2009
Synthetizer	Agilent (E8257C, SN:MY43321570)	Calibrated: 08/07/2009
Amplifier	Mini-Circuits (ZHL-42, SN:110405)	Calibrated: 07/29/2009
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibrated: 07/29/2009
Probe	Antennessa (SN:SN_1109_EP_100)	Calibrated: 04/16/2009
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibrated: N/A
Liquid	Antennessa	Calibrated: N/A
Measurement SW:	OPEN SAR V2.1	Calibrated: N/A

C. SAR Measurement Results

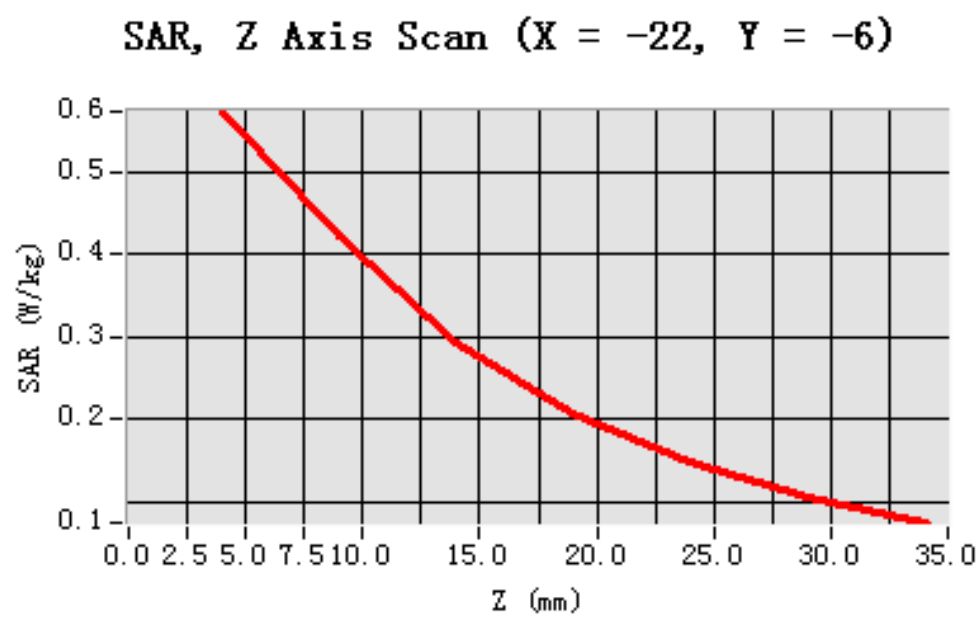
Frequency (MHz)	836.602124
Relative permittivity (real part)	41.460120
Relative permittivity (imaginary part)	19.582105
Conductivity (S/m)	0.920102
Variation (%)	-0.010000



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

SAR 10g (W/Kg)	0.121877
SAR 1g (W/Kg)	0.198455

Z Axis Scan



MEASUREMENT 12

Type: Phone measurement (Complete)

Date of measurement: 04/16/2010

Measurement duration: 19 minutes 49 seconds

Mobile Phone IMEI number: --

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

Crest Factor: GSM Duty cycle: 1:8

Medium parameters used: $f=848.8\text{MHz}$; $\sigma=41.46\text{mho/m}$; $\epsilon_r=0.92$; $\rho=1000\text{kg/m}^3$

Area Scan: 7 x 7 x 1 dx=15mm dy=15mm

Zoom Scan: 5 x 5 x 7 dx=5mm dy=5mm dz=5mm

Z Axis Scan: 1 x 1 x 21 dx=20mm dy=20mm dz=5mm

A. Experimental conditions.

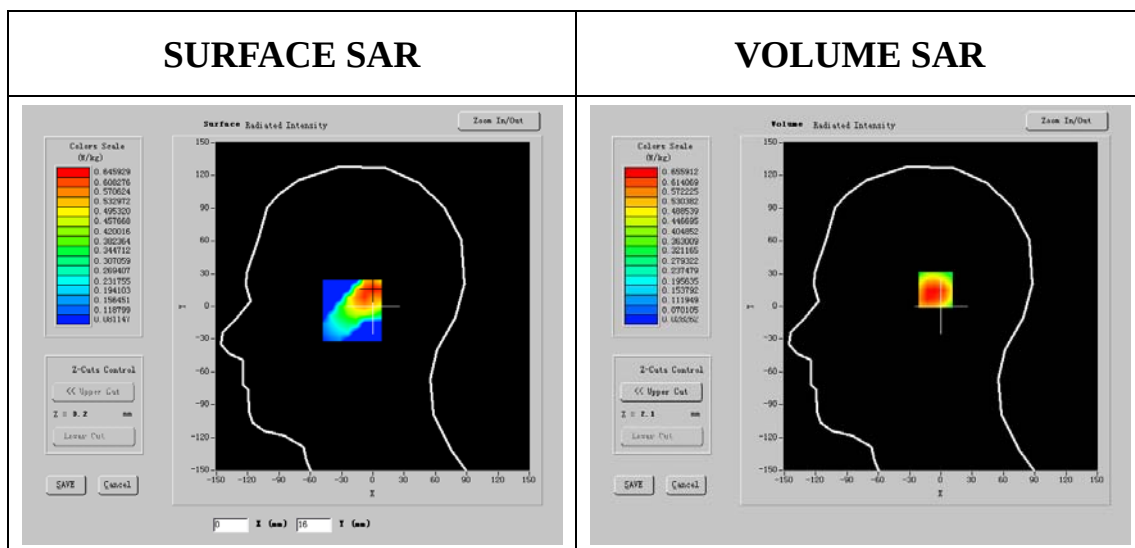
Phantom File	zinf15.txt, Adaptive 2 max
Phantom	Left head
Device Position	Tilt
Band	GSM850
Channels	High
Signal	GSM

B. Instrumentations.

PC	HP (Pentium(R) V3.06GHz, SN:375052-AA1)	Calibrated: N/A
Network Emulator	R&S (CMU200, SN:B23-03291)	Calibrated: 06/17/2009
Voltmeter	Keithley (2000, SN:1015843)	Calibrated: 05/01/2009
Synthetizer	Agilent (E8257C, SN:MY43321570)	Calibrated: 08/07/2009
Amplifier	Mini-Circuits (ZHL-42, SN:110405)	Calibrated: 07/29/2009
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibrated: 07/29/2009
Probe	Antennessa (SN:SN_1109_EP_100)	Calibrated: 04/16/2009
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibrated: N/A
Liquid	Antennessa	Calibrated: N/A
Measurement SW:	OPEN SAR V2.1	Calibrated: N/A

C. SAR Measurement Results

Frequency (MHz)	848.790120
Relative permittivity (real part)	41.462001
Relative permittivity (imaginary part)	19.584100
Conductivity (S/m)	0.923206
Variation (%)	-1.100000

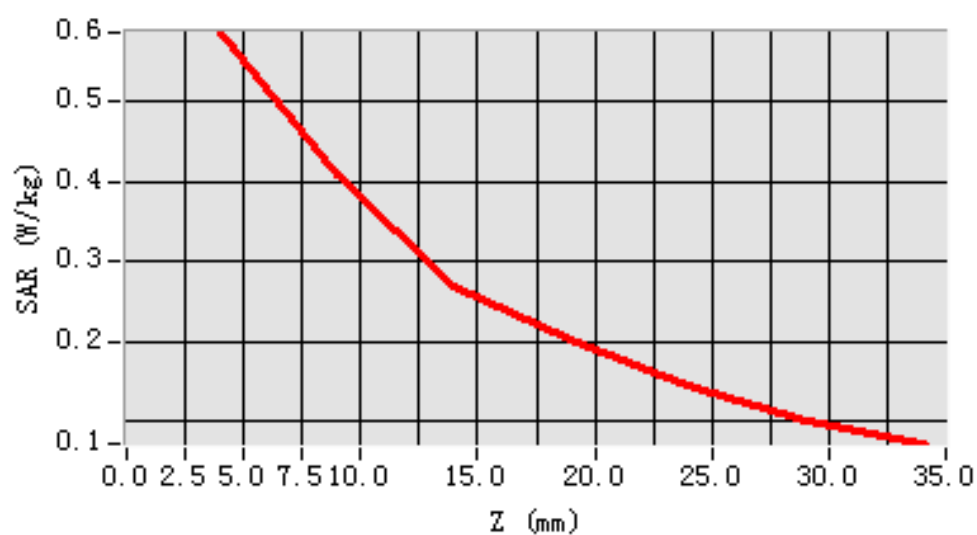


Maximum location: X=-22.00, Y=-6.00

SAR 10g (W/Kg)	0.102491
SAR 1g (W/Kg)	0.171588

Z Axis Scan

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



MEASUREMENT 13

Type: Phone measurement (Complete)

Date of measurement: 04/16/2010

Measurement duration: 14 minutes 29 seconds

Mobile Phone IMEI number:

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

Crest Factor: GSM Duty cycle: 1:8

Medium parameters used: $f=824.2\text{MHz}$; $\sigma=56.52\text{mho/m}$; $\epsilon_r=0.97$; $\rho=1000\text{kg/m}^3$

Area Scan: 7 x 7 x 1 dx=15mm dy=15mm

Zoom Scan: 5 x 5 x 7 dx=5mm dy=5mm dz=5mm

Z Axis Scan: 1 x 1 x 21 dx=20mm dy=20mm dz=5mm

A. Experimental conditions.

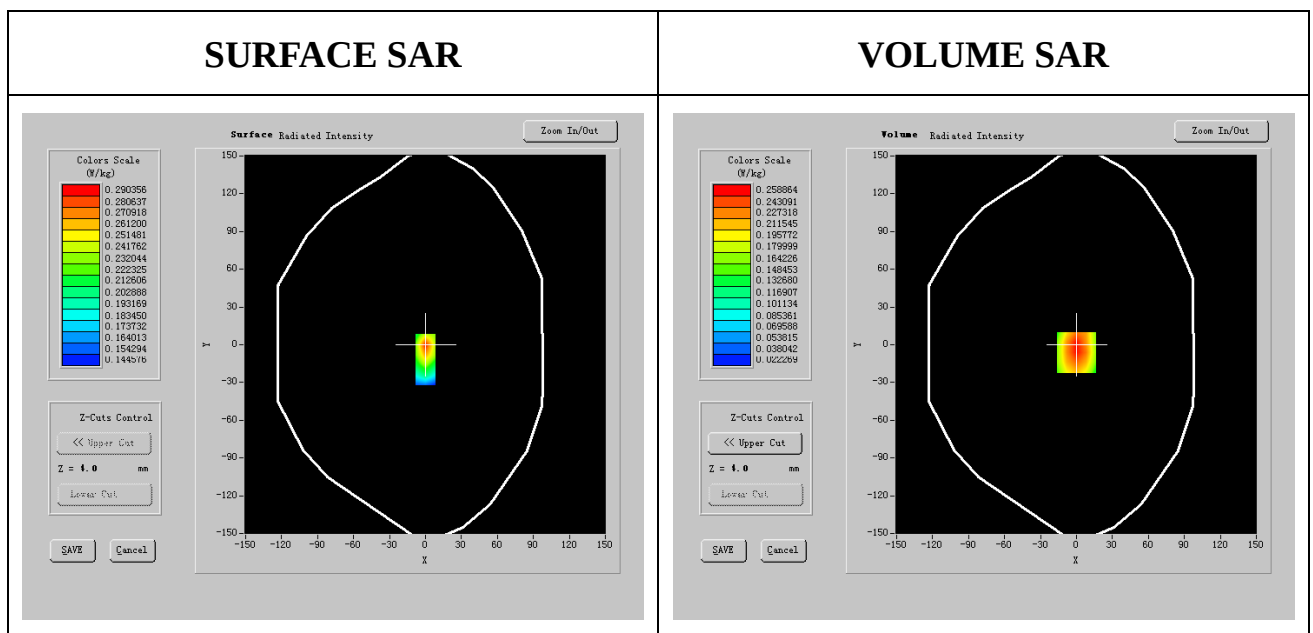
Phantom File	surf_sam_plan.txt, Adaptive 2 max
Phantom	Validation plane
Device Position	Body
Band	GSM850
Channels	Low
Signal	GSM

B. Instrumentations.

PC	HP (Pentium(R) V3.06GHz, SN:375052-AA1)	Calibrated: N/A
Network Emulator	R&S (CMU200, SN:B23-03291)	Calibrated: 06/17/2009
Voltmeter	Keithley (2000, SN:1015843)	Calibrated: 05/01/2009
Synthetizer	Agilent (E8257C, SN:MY43321570)	Calibrated: 08/07/2009
Amplifier	Mini-Circuits (ZHL-42, SN:110405)	Calibrated: 07/29/2009
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibrated: 07/29/2009
Probe	Antennessa (SN:SN_1109_EP_100)	Calibrated: 04/16/2009
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibrated: N/A
Liquid	Antennessa	Calibrated: N/A
Measurement SW:	OPEN SAR V2.1	Calibrated: N/A

C. SAR Measurement Results

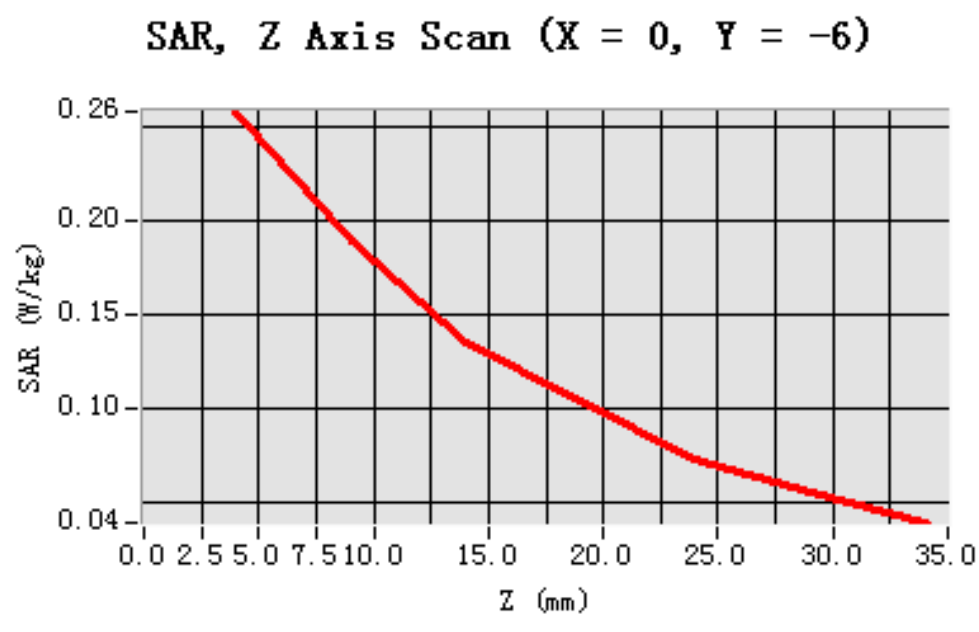
Frequency (MHz)	824.200002
Relative permittivity (real part)	56.524000
Relative permittivity (imaginary part)	21.251150
Conductivity (S/m)	0.972509
Variation (%)	-1.130000



Maximum location: X=0.00, Y=-6.00

SAR 10g (W/Kg)	0.085537
SAR 1g (W/Kg)	0.185150

Z Axis Scan



MEASUREMENT 14

Type: Phone measurement (Complete)

Date of measurement: 04/16/2010

Measurement duration: 14 minutes 29 seconds

Mobile Phone IMEI number:

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

Crest Factor: GSM Duty cycle: 1:8

Medium parameters used: $f=836.6\text{MHz}$; $\sigma=56.50\text{mho/m}$; $\epsilon_r=0.97$; $\rho=1000\text{kg/m}^3$

Area Scan: 7 x 7 x 1

dx=15mm

dy=15mm

Zoom Scan: 5 x 5 x 7

dx=5mm

dy=5mm

dz=5mm

Z Axis Scan: 1 x 1 x 21

dx=20mm

dy=20mm

dz=5mm

A. Experimental conditions.

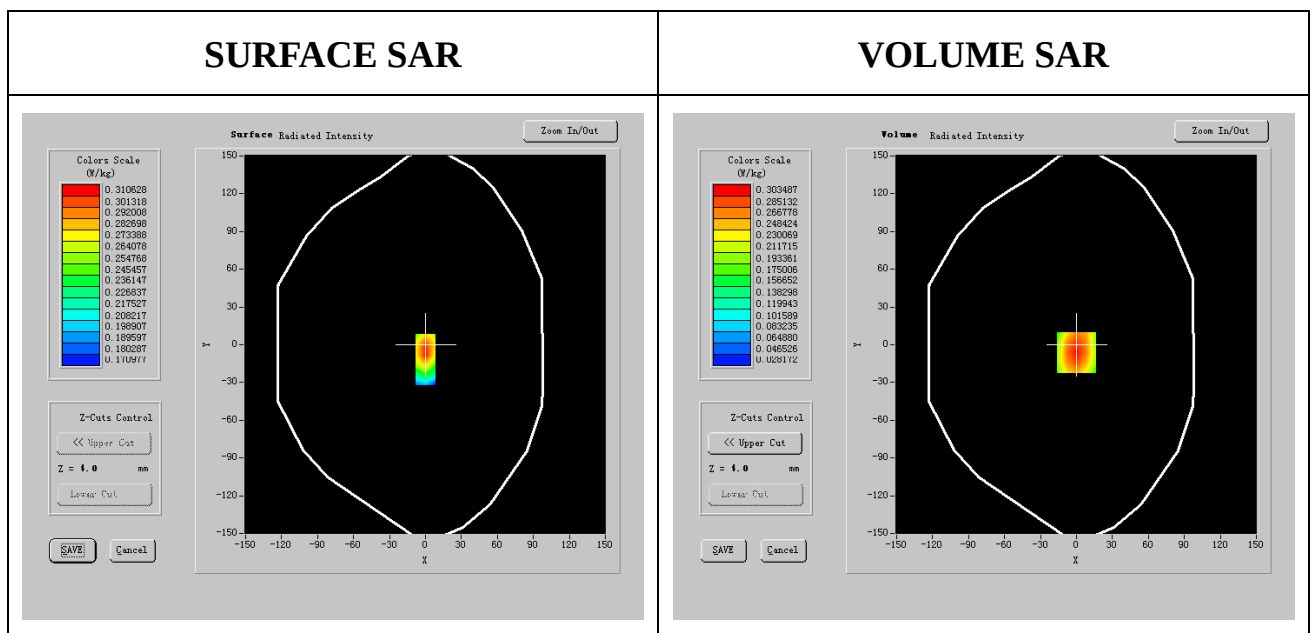
Phantom File	surf_sam_plan.txt, Adaptive 2 max
Phantom	Validation plane
Device Position	Body
Band	GSM850
Channels	Middle
Signal	GSM

B. Instrumentations.

PC	HP (Pentium(R) V3.06GHz, SN:375052-AA1)	Calibrated: N/A
Network Emulator	R&S (CMU200, SN:B23-03291)	Calibrated: 06/17/2009
Voltmeter	Keithley (2000, SN:1015843)	Calibrated: 05/01/2009
Synthetizer	Agilent (E8257C, SN:MY43321570)	Calibrated: 08/07/2009
Amplifier	Mini-Circuits (ZHL-42, SN:110405)	Calibrated: 07/29/2009
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibrated: 07/29/2009
Probe	Antennessa (SN:SN_1109_EP_100)	Calibrated: 04/16/2009
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibrated: N/A
Liquid	Antennessa	Calibrated: N/A
Measurement SW:	OPEN SAR V2.1	Calibrated: N/A

C. SAR Measurement Results

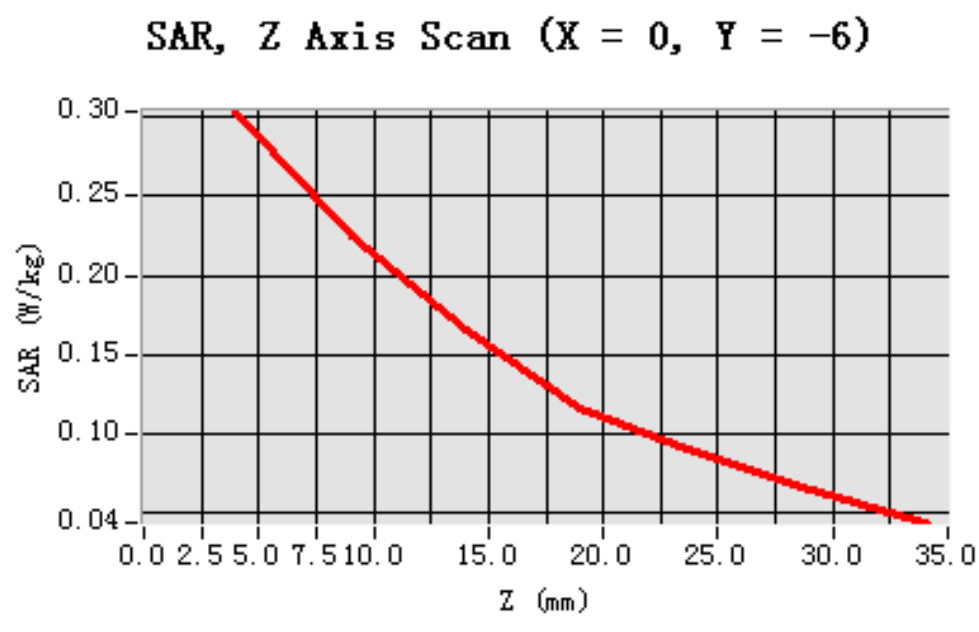
Frequency (MHz)	836.600204
Relative permittivity (real part)	56.500210
Relative permittivity (imaginary part)	21.842010
Conductivity (S/m)	0.974152
Variation (%)	-1.200000



Maximum location: X=0.00, Y=-6.00

SAR 10g (W/Kg)	0.103389
SAR 1g (W/Kg)	0.196425

Z Axis Scan



MEASUREMENT 15

Type: Phone measurement (Complete)

Date of measurement: 04/16/2010

Measurement duration: 14 minutes 29 seconds

Mobile Phone IMEI number:

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

Crest Factor: GSM Duty cycle: 1:8

Medium parameters used: $f=848.8\text{MHz}$; $\sigma=56.52\text{mho/m}$; $\epsilon_r=0.97$; $\rho=1000\text{kg/m}^3$

Area Scan: 7 x 7 x 1 dx=15mm dy=15mm

Zoom Scan: 5 x 5 x 7 dx=5mm dy=5mm dz=5mm

Z Axis Scan: 1 x 1 x 21 dx=20mm dy=20mm dz=5mm

A. Experimental conditions.

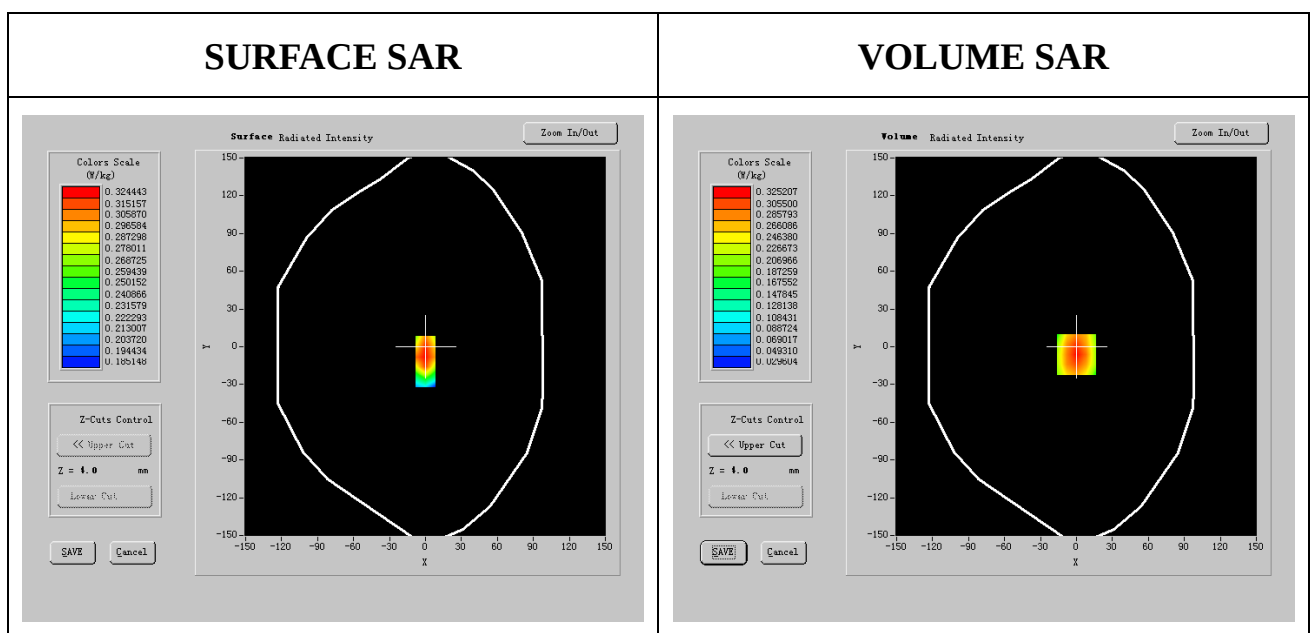
Phantom File	surf_sam_plan.txt, Adaptive 2 max
Phantom	Validation plane
Device Position	Body
Band	GSM850
Channels	High
Signal	GSM

B. Instrumentations.

PC	HP (Pentium(R) V3.06GHz, SN:375052-AA1)	Calibrated: N/A
Network Emulator	R&S (CMU200, SN:B23-03291)	Calibrated: 06/17/2009
Voltmeter	Keithley (2000, SN:1015843)	Calibrated: 05/01/2009
Synthesizer	Agilent (E8257C, SN:MY43321570)	Calibrated: 08/07/2009
Amplifier	Mini-Circuits (ZHL-42, SN:110405)	Calibrated: 07/29/2009
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibrated: 07/29/2009
Probe	Antennessa (SN:SN_1109_EP_100)	Calibrated: 04/16/2009
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibrated: N/A
Liquid	Antennessa	Calibrated: N/A
Measurement SW:	OPEN SAR V2.1	Calibrated: N/A

C. SAR Measurement Results

Frequency (MHz)	848.862406
Relative permittivity (real part)	56.524000
Relative permittivity (imaginary part)	21.792101
Conductivity (S/m)	0.973200
Variation (%)	-1.310000

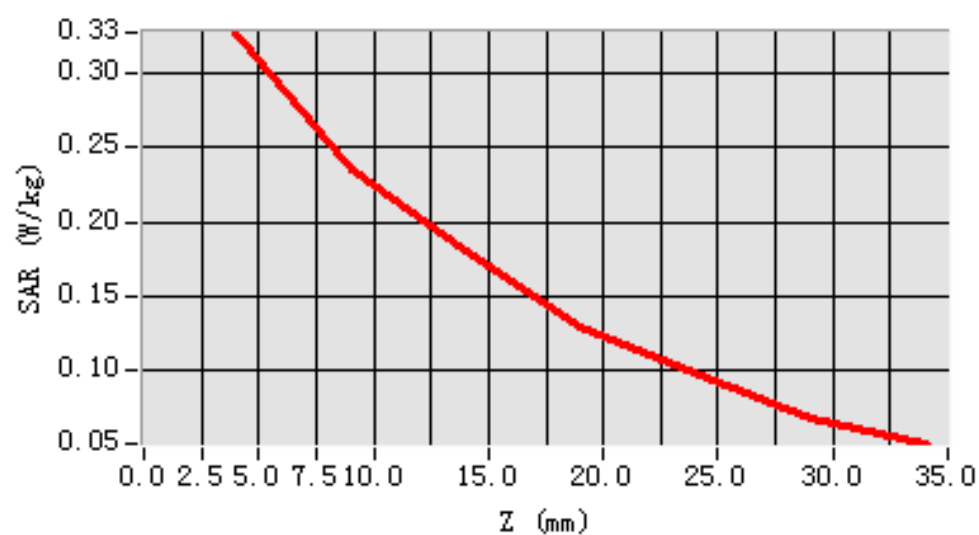


Maximum location: X=0.00, Y=-6.00

SAR 10g (W/Kg)	0.093471
SAR 1g (W/Kg)	0.188049

Z Axis Scan

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



WCDMA BAND V

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 WCDMA band V mode <u>Measurement 2:</u> Right Head with Cheek device position on Middle Channel in WCDMA band V mode <u>Measurement 3:</u> Right Head with Cheek device position on High Channel in WCDMA band V mode <u>Measurement 4:</u> Right Head with Tilt device position on Low Channel in WCDMA band V mode <u>Measurement 5:</u> Right Head with Tilt device position on Middle Channel in WCDMA band V mode <u>Measurement 6:</u> Right Head with Tilt device position on High Channel in WCDMA band V mode <u>Measurement 7:</u> Left Head with Cheek device position on Low Channel in WCDMA band V mode <u>Measurement 8:</u> Left Head with Cheek device position on Middle Channel in WCDMA band V mode <u>Measurement 9:</u> Left Head with Cheek device position on High Channel in WCDMA band V mode <u>Measurement 10:</u> Left Head with Tilt device position on Low Channel in WCDMA band V mode <u>Measurement 11:</u> Left Head with Tilt device position on Middle Channel in WCDMA band V mode <u>Measurement 12:</u> Left Head with Tilt device position on High Channel in WCDMA band V mode <u>Measurement 13:</u> Validation Plane with Body device position on Low Channel in WCDMA band V mode <u>Measurement 14:</u> Validation Plane with Body device position on Middle Channel in WCDMA band V mode <u>Measurement 15:</u> Validation Plane with Body device position on High Channel in WCDMA band V mode <u>Measurement 16:</u> Validation Plane with Body device position on Low Channel in HSDPA band V mode

		<u>Measurement 17:</u> Validation Plane with Body device position on Middle Channel in HSDPA band V mode <u>Measurement 18:</u> Validation Plane with Body device position on High Channel in HSDPA band V mode
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MEASUREMENT 1

Type: Phone measurement (Complete)

Date of measurement: 04/16/2010

Measurement duration: 19 minutes 56 seconds

Mobile Phone IMEI number: --

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

Crest Factor: WCDMA Duty cycle: 1:1

Medium parameters used: $f=826.2\text{MHz}$; $\sigma=41.49\text{mho/m}$; $\epsilon_r=0.92$; $\rho=1000\text{kg/m}^3$

Area Scan: 7 x 7 x 1

dx=15mm

dy=15mm

Zoom Scan: 5 x 5 x 7

dx=5mm

dy=5mm

dz=5mm

Z Axis Scan: 1 x 1 x 21

dx=20mm

dy=20mm

dz=5mm

A. Experimental conditions.

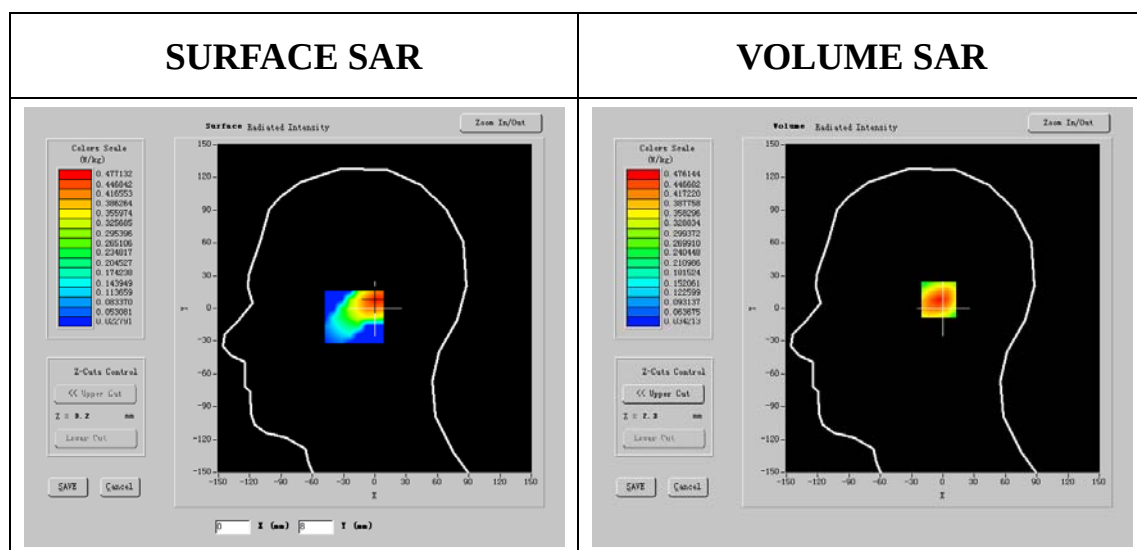
Phantom File	zinf15.txt, Adaptive 2 max
Phantom	Right head
Device Position	Cheek
Band	WCDMA band V
Channels	Low
Signal	WCDMA

B. Instrumentations.

PC	HP (Pentium(R) V3.06GHz, SN:375052-AA1)	Calibrated: N/A
Network Emulator	R&S (CMU200, SN:B23-03291)	Calibrated: 06/17/2009
Voltmeter	Keithley (2000, SN:1015843)	Calibrated: 05/01/2009
Synthesizer	Agilent (E8257C, SN:MY43321570)	Calibrated: 08/07/2009
Amplifier	Mini-Circuits (ZHL-42, SN:110405)	Calibrated: 07/29/2009
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibrated: 07/29/2009
Probe	Antennessa (SN:SN_1109_EP_100)	Calibrated: 04/16/2009
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibrated: N/A
Liquid	Antennessa	Calibrated: N/A
Measurement SW:	OPEN SAR V2.1	Calibrated: N/A

C. SAR Measurement Results

Frequency (MHz)	826.200001
Relative permittivity (real part)	41.491777
Relative permittivity (imaginary part)	19.510000
Conductivity (S/m)	0.923144
Variation (%)	-1.450000

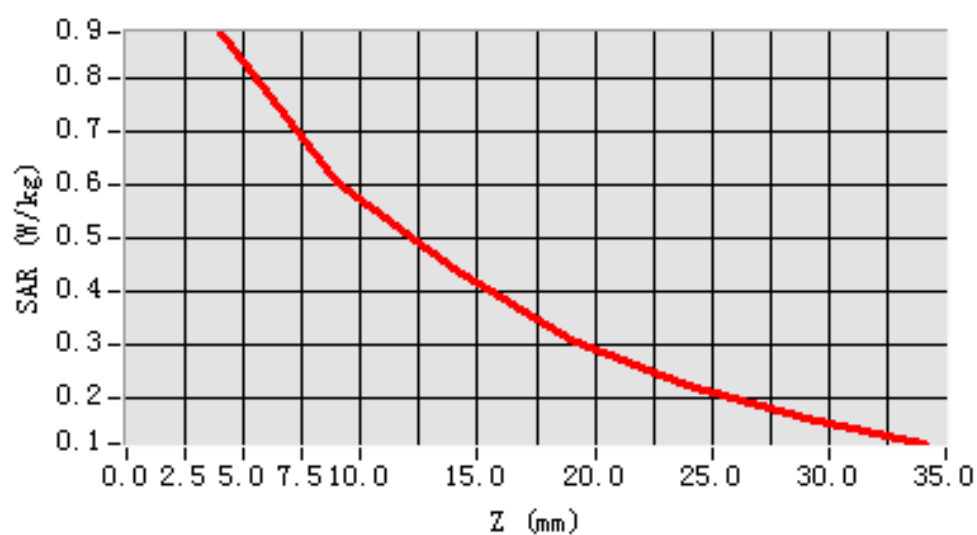


Maximum location: X=-13.00, Y=-3.00

SAR 10g (W/Kg)	0.112369
SAR 1g (W/Kg)	0.243584

Z Axis Scan

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



MEASUREMENT 2

Type: Phone measurement (Complete)

Date of measurement: 04/16/2010

Measurement duration: 19 minutes 56 seconds

Mobile Phone IMEI number: --

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

Crest Factor: WCDMA Duty cycle: 1:1

Medium parameters used: $f=836.6\text{MHz}$; $\sigma=41.44\text{mho/m}$; $\epsilon_r=0.92$; $\rho=1000\text{kg/m}^3$

Area Scan: 7 x 7 x 1

dx=15mm

dy=15mm

Zoom Scan: 5 x 5 x 7

dx=5mm

dy=5mm

dz=5mm

Z Axis Scan: 1 x 1 x 21

dx=20mm

dy=20mm

dz=5mm

A. Experimental conditions.

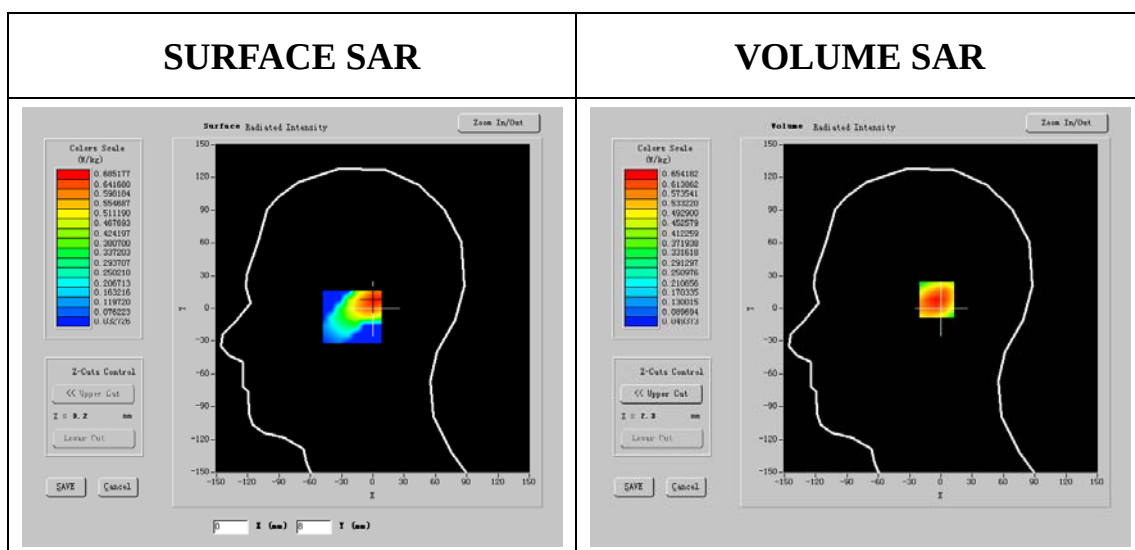
Phantom File	zinf15.txt, Adaptive 2 max
Phantom	Right head
Device Position	Cheek
Band	WCDMA band V
Channels	Middle
Signal	WCDMA

B. Instrumentations.

PC	HP (Pentium(R) V3.06GHz, SN:375052-AA1)	Calibrated: N/A
Network Emulator	R&S (CMU200, SN:B23-03291)	Calibrated: 06/17/2009
Voltmeter	Keithley (2000, SN:1015843)	Calibrated: 05/01/2009
Synthesizer	Agilent (E8257C, SN:MY43321570)	Calibrated: 08/07/2009
Amplifier	Mini-Circuits (ZHL-42, SN:110405)	Calibrated: 07/29/2009
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibrated: 07/29/2009
Probe	Antennessa (SN:SN_1109_EP_100)	Calibrated: 04/16/2009
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibrated: N/A
Liquid	Antennessa	Calibrated: N/A
Measurement SW:	OPEN SAR V2.1	Calibrated: N/A

C. SAR Measurement Results

Frequency (MHz)	836.590001
Relative permittivity (real part)	41.444610
Relative permittivity (imaginary part)	19.522697
Conductivity (S/m)	0.916555
Variation (%)	-0.200000

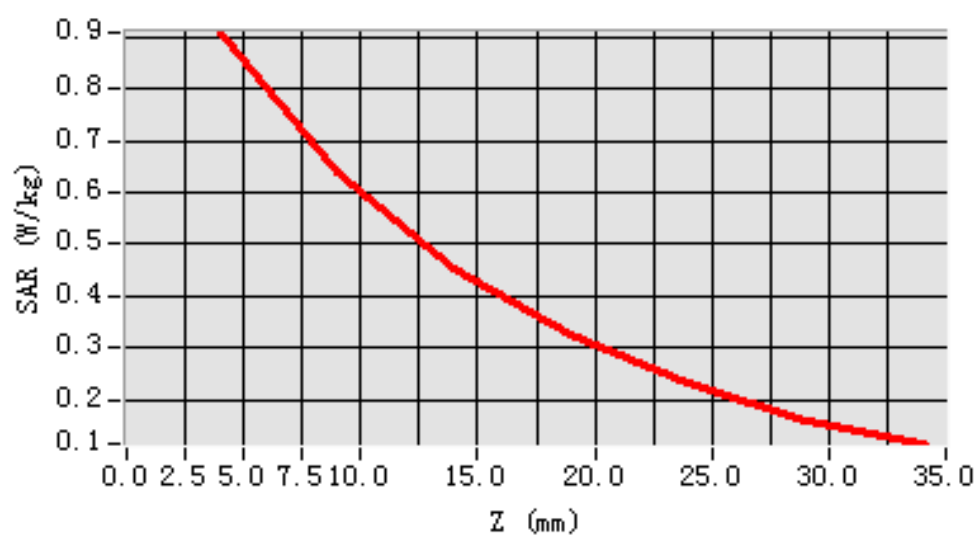


Maximum location: X=-13.00, Y=-3.00

SAR 10g (W/Kg)	0.123167
SAR 1g (W/Kg)	0.258444

Z Axis Scan

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



MEASUREMENT 3

Type: Phone measurement (Complete)

Date of measurement: 04/16/2010

Measurement duration: 19 minutes 56 seconds

Mobile Phone IMEI number: --

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

Crest Factor: WCDMA Duty cycle: 1:1

Medium parameters used: $f=848.8\text{MHz}$; $\sigma=41.40\text{mho/m}$; $\epsilon_r=0.92$; $\rho=1000\text{kg/m}^3$

Area Scan: 7 x 7 x 1

dx=15mm

dy=15mm

Zoom Scan: 5 x 5 x 7

dx=5mm

dy=5mm

dz=5mm

Z Axis Scan: 1 x 1 x 21

dx=20mm

dy=20mm

dz=5mm

A. Experimental conditions.

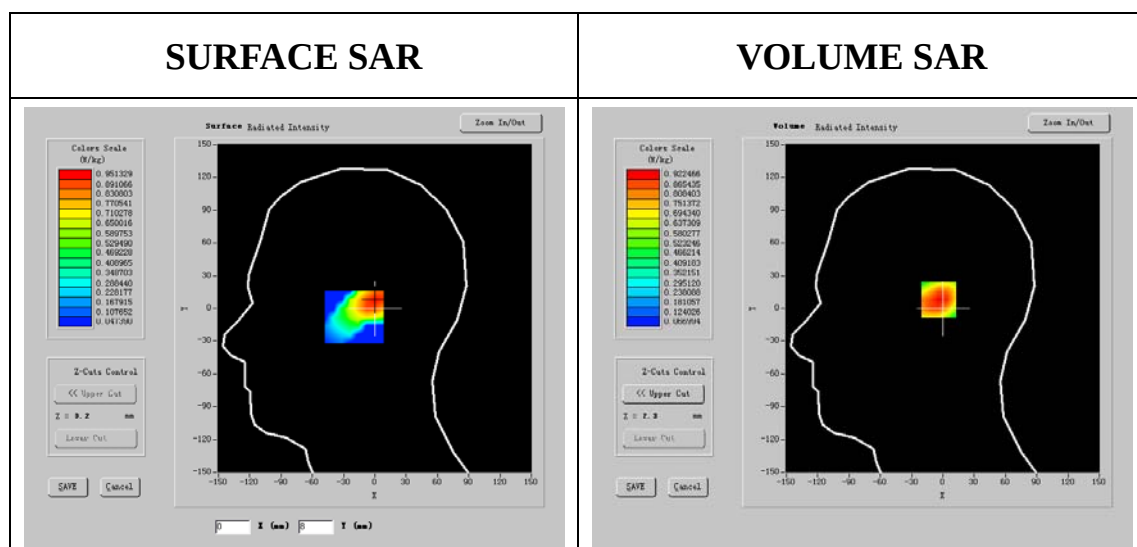
Phantom File	zinf15.txt, Adaptive 2 max
Phantom	Right head
Device Position	Cheek
Band	WCDMA band V
Channels	High
Signal	WCDMA

B. Instrumentations.

PC	HP (Pentium(R) V3.06GHz, SN:375052-AA1)	Calibrated: N/A
Network Emulator	R&S (CMU200, SN:B23-03291)	Calibrated: 06/17/2009
Voltmeter	Keithley (2000, SN:1015843)	Calibrated: 05/01/2009
Synthetizer	Agilent (E8257C, SN:MY43321570)	Calibrated: 08/07/2009
Amplifier	Mini-Circuits (ZHL-42, SN:110405)	Calibrated: 07/29/2009
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibrated: 07/29/2009
Probe	Antennessa (SN:SN_1109_EP_100)	Calibrated: 04/16/2009
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibrated: N/A
Liquid	Antennessa	Calibrated: N/A
Measurement SW:	OPEN SAR V2.1	Calibrated: N/A

C. SAR Measurement Results

Frequency (MHz)	846.799999
Relative permittivity (real part)	41.400523
Relative permittivity (imaginary part)	19.611047
Conductivity (S/m)	0.922155
Variation (%)	-0.200000

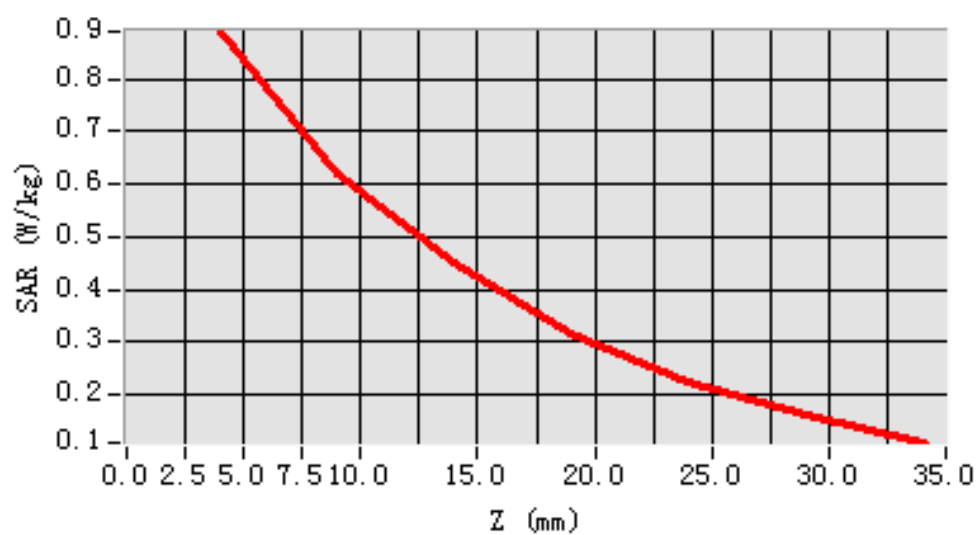


Maximum location: X=-13.00, Y=-3.00

SAR 10g (W/Kg)	0.110034
SAR 1g (W/Kg)	0.245122

Z Axis Scan

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



MEASUREMENT 4

Type: Phone measurement (Complete)

Date of measurement: 04/16/2010

Measurement duration: 19 minutes 47 seconds

Mobile Phone IMEI number: --

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

Crest Factor: WCDMA Duty cycle: 1:1

Medium parameters used: $f=826.2\text{MHz}$; $\sigma=41.44\text{mho/m}$; $\epsilon_r=0.91$; $\rho=1000\text{kg/m}^3$

Area Scan: 7 x 7 x 1

dx=15mm

dy=15mm

Zoom Scan: 5 x 5 x 7

dx=5mm

dy=5mm

dz=5mm

Z Axis Scan: 1 x 1 x 21

dx=20mm

dy=20mm

dz=5mm

A. Experimental conditions.

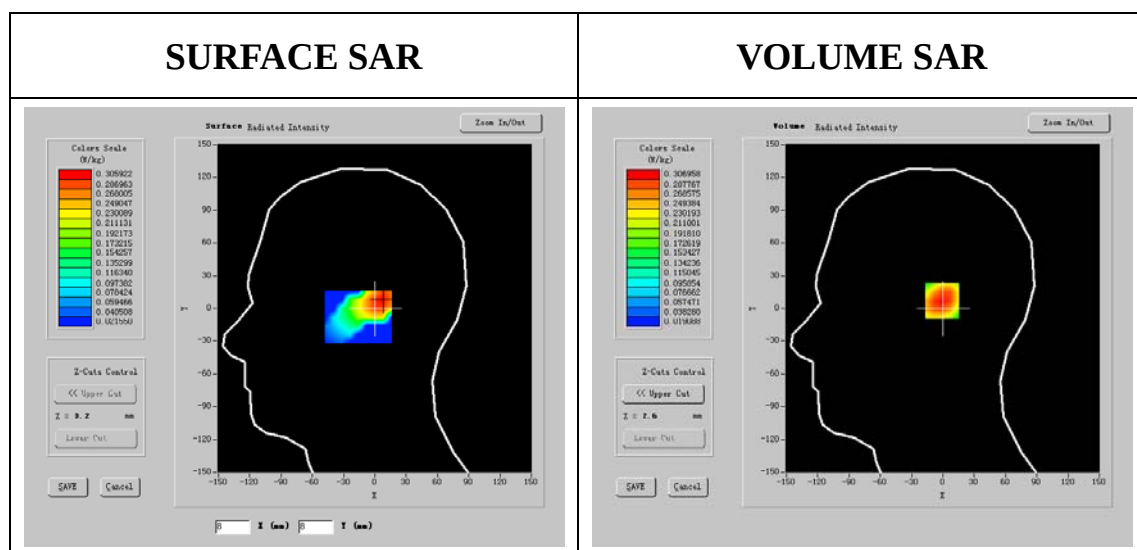
Phantom File	zinf15.txt, Adaptive 2 max
Phantom	Right head
Device Position	Tilt
Band	WCDMA band V
Channels	Low
Signal	WCDMA

B. Instrumentations.

PC	HP (Pentium(R) V3.06GHz, SN:375052-AA1)	Calibrated: N/A
Network Emulator	R&S (CMU200, SN:B23-03291)	Calibrated: 06/17/2009
Voltmeter	Keithley (2000, SN:1015843)	Calibrated: 05/01/2009
Synthetizer	Agilent (E8257C, SN:MY43321570)	Calibrated: 08/07/2009
Amplifier	Mini-Circuits (ZHL-42, SN:110405)	Calibrated: 07/29/2009
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibrated: 07/29/2009
Probe	Antennessa (SN:SN_1109_EP_100)	Calibrated: 04/16/2009
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibrated: N/A
Liquid	Antennessa	Calibrated: N/A
Measurement SW:	OPEN SAR V2.1	Calibrated: N/A

C. SAR Measurement Results

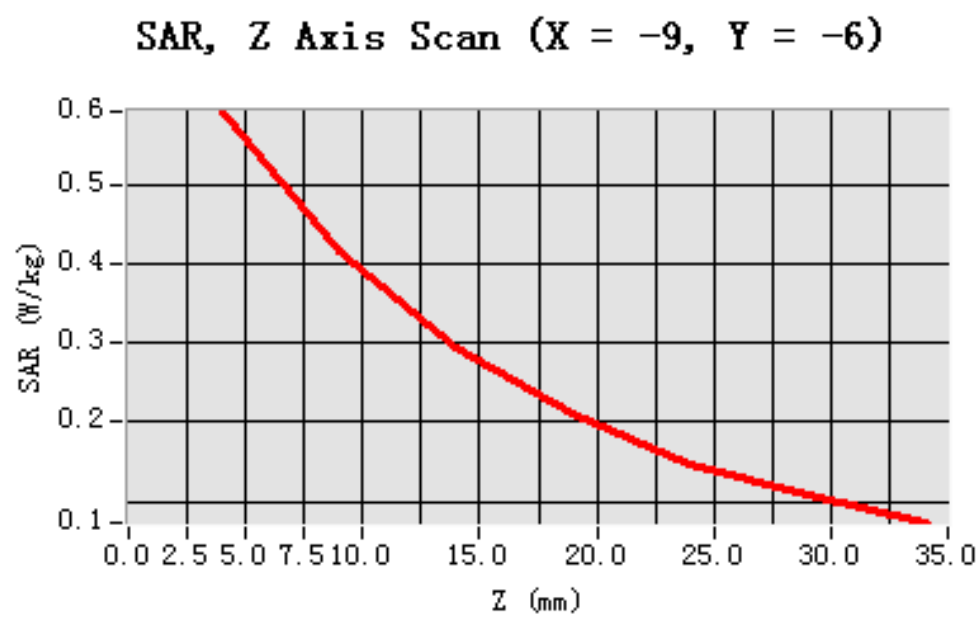
Frequency (MHz)	826.202012
Relative permittivity (real part)	41.443276
Relative permittivity (imaginary part)	19.581064
Conductivity (S/m)	0.914617
Variation (%)	-1.300000



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

SAR 10g (W/Kg)	0.081332
SAR 1g (W/Kg)	0.144055

Z Axis Scan



MEASUREMENT 5

Type: Phone measurement (Complete)

Date of measurement: 04/16/2010

Measurement duration: 19 minutes 47 seconds

Mobile Phone IMEI number: --

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

Crest Factor: WCDMA Duty cycle: 1:1

Medium parameters used: $f=836.6\text{MHz}$; $\sigma=41.47\text{mho/m}$; $\epsilon_r=0.92$; $\rho=1000\text{kg/m}^3$

Area Scan: 7 x 7 x 1

dx=15mm

dy=15mm

Zoom Scan: 5 x 5 x 7

dx=5mm

dy=5mm

dz=5mm

Z Axis Scan: 1 x 1 x 21

dx=20mm

dy=20mm

dz=5mm

A. Experimental conditions.

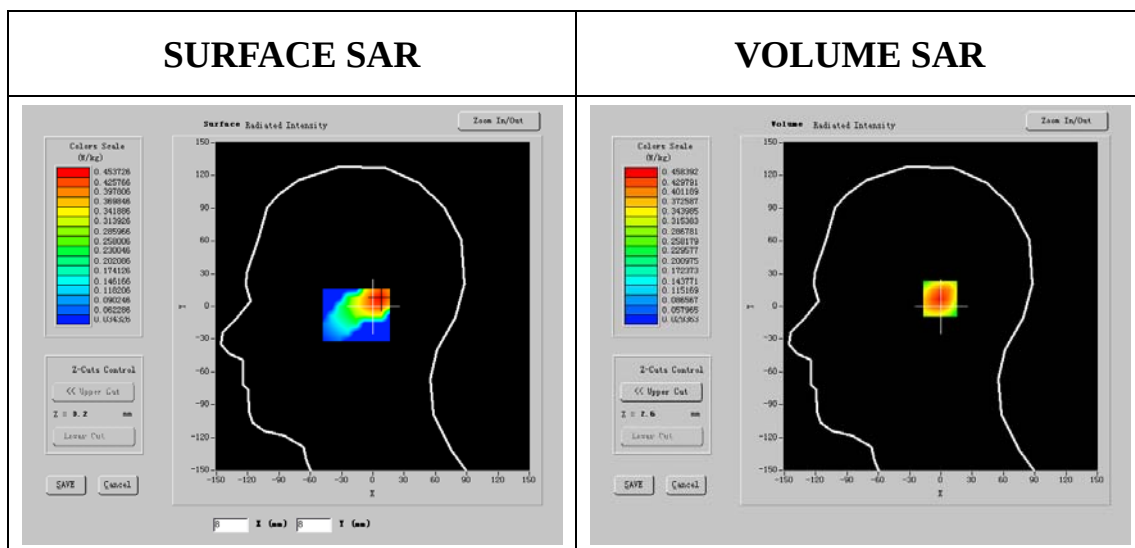
Phantom File	zinf15.txt, Adaptive 2 max
Phantom	Right head
Device Position	Tilt
Band	WCDMA band V
Channels	Middle
Signal	WCDMA

B. Instrumentations.

PC	HP (Pentium(R) V3.06GHz, SN:375052-AA1)	Calibrated: N/A
Network Emulator	R&S (CMU200, SN:B23-03291)	Calibrated: 06/17/2009
Voltmeter	Keithley (2000, SN:1015843)	Calibrated: 05/01/2009
Synthetizer	Agilent (E8257C, SN:MY43321570)	Calibrated: 08/07/2009
Amplifier	Mini-Circuits (ZHL-42, SN:110405)	Calibrated: 07/29/2009
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibrated: 07/29/2009
Probe	Antennessa (SN:SN_1109_EP_100)	Calibrated: 04/16/2009
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibrated: N/A
Liquid	Antennessa	Calibrated: N/A
Measurement SW:	OPEN SAR V2.1	Calibrated: N/A

C. SAR Measurement Results

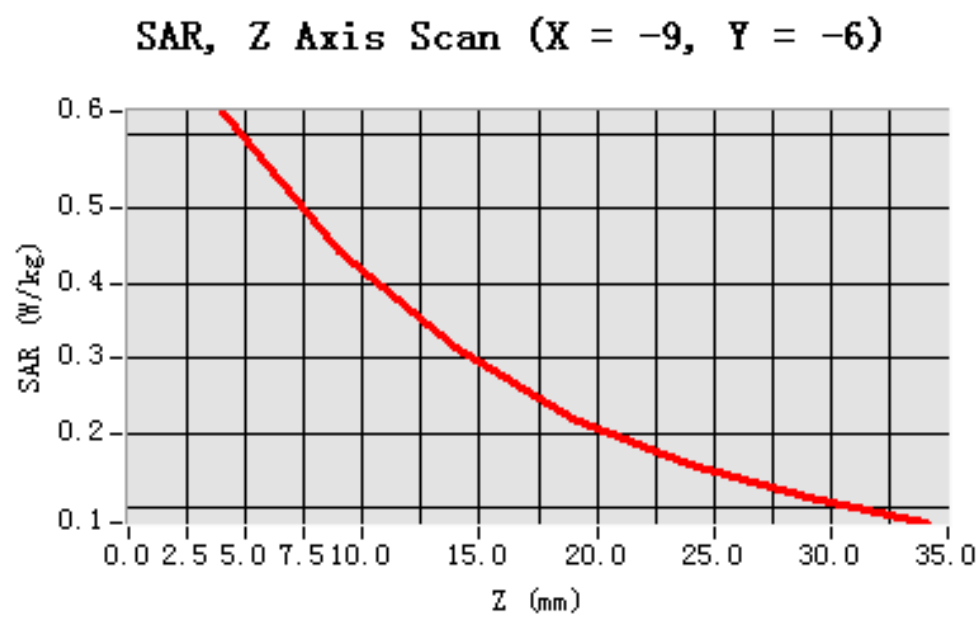
Frequency (MHz)	836.600210
Relative permittivity (real part)	41.470244
Relative permittivity (imaginary part)	19.571880
Conductivity (S/m)	0.921224
Variation (%)	-0.890000



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

SAR 10g (W/Kg)	0.091644
SAR 1g (W/Kg)	0.167884

Z Axis Scan



MEASUREMENT 6

Type: Phone measurement (Complete)

Date of measurement: 04/16/2010

Measurement duration: 19 minutes 47 seconds

Mobile Phone IMEI number: --

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

Crest Factor: WCDMA Duty cycle: 1:1

Medium parameters used: $f=848.8\text{MHz}$; $\sigma=41.42\text{mho/m}$; $\epsilon_r=0.92$; $\rho=1000\text{kg/m}^3$

Area Scan: 7 x 7 x 1

dx=15mm

dy=15mm

Zoom Scan: 5 x 5 x 7

dx=5mm

dy=5mm

dz=5mm

Z Axis Scan: 1 x 1 x 21

dx=20mm

dy=20mm

dz=5mm

A. Experimental conditions.

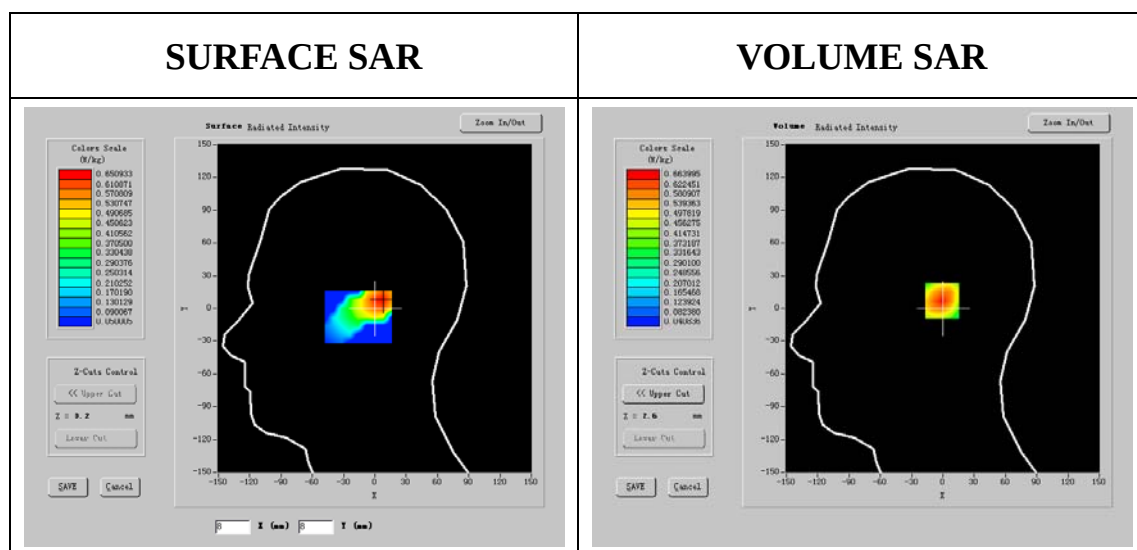
Phantom File	zinf15.txt, Adaptive 2 max
Phantom	Right head
Device Position	Tilt
Band	WCDMA band V
Channels	High
Signal	WCDMA

B. Instrumentations.

PC	HP (Pentium(R) V3.06GHz, SN:375052-AA1)	Calibrated: N/A
Network Emulator	R&S (CMU200, SN:B23-03291)	Calibrated: 06/17/2009
Voltmeter	Keithley (2000, SN:1015843)	Calibrated: 05/01/2009
Synthetizer	Agilent (E8257C, SN:MY43321570)	Calibrated: 08/07/2009
Amplifier	Mini-Circuits (ZHL-42, SN:110405)	Calibrated: 07/29/2009
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibrated: 07/29/2009
Probe	Antennessa (SN:SN_1109_EP_100)	Calibrated: 04/16/2009
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibrated: N/A
Liquid	Antennessa	Calibrated: N/A
Measurement SW:	OPEN SAR V2.1	Calibrated: N/A

C. SAR Measurement Results

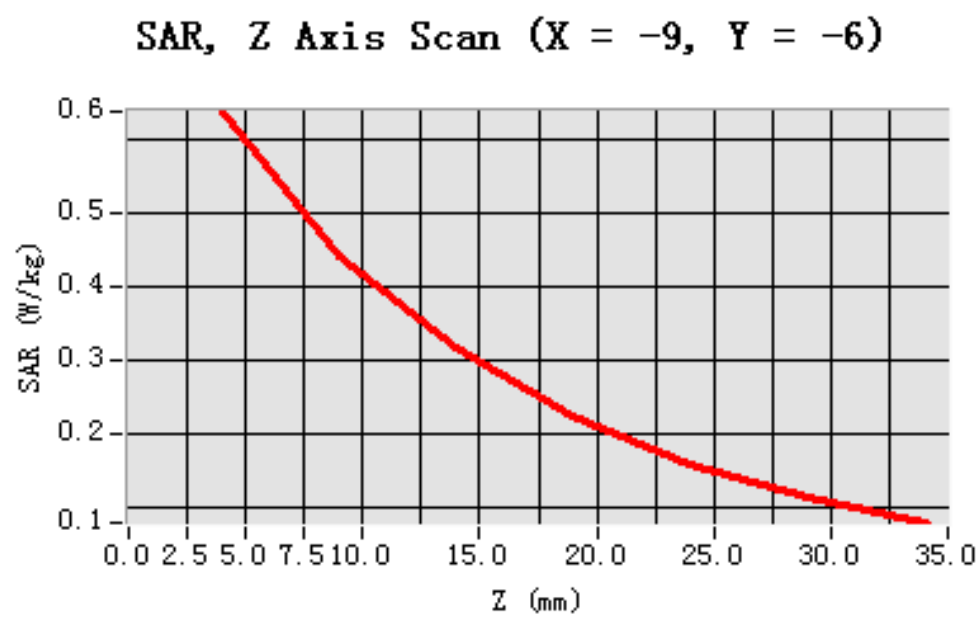
Frequency (MHz)	846.799000
Relative permittivity (real part)	41.418764
Relative permittivity (imaginary part)	19.585448
Conductivity (S/m)	0.922041
Variation (%)	-0.400000



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

SAR 10g (W/Kg)	0.087364
SAR 1g (W/Kg)	0.154061

Z Axis Scan



MEASUREMENT 7

Type: Phone measurement (Complete)

Date of measurement: 04/16/2010

Measurement duration: 20 minutes 2 seconds

Mobile Phone IMEI number: --

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

Crest Factor: WCDMA Duty cycle: 1:1

Medium parameters used: $f=826.2\text{MHz}$; $\sigma=41.46\text{mho/m}$; $\epsilon_r=0.89$; $\rho=1000\text{kg/m}^3$

Area Scan: 7 x 7 x 1 dx=15mm dy=15mm

Zoom Scan: 5 x 5 x 7 dx=5mm dy=5mm dz=5mm

Z Axis Scan: 1 x 1 x 21 dx=20mm dy=20mm dz=5mm

A. Experimental conditions.

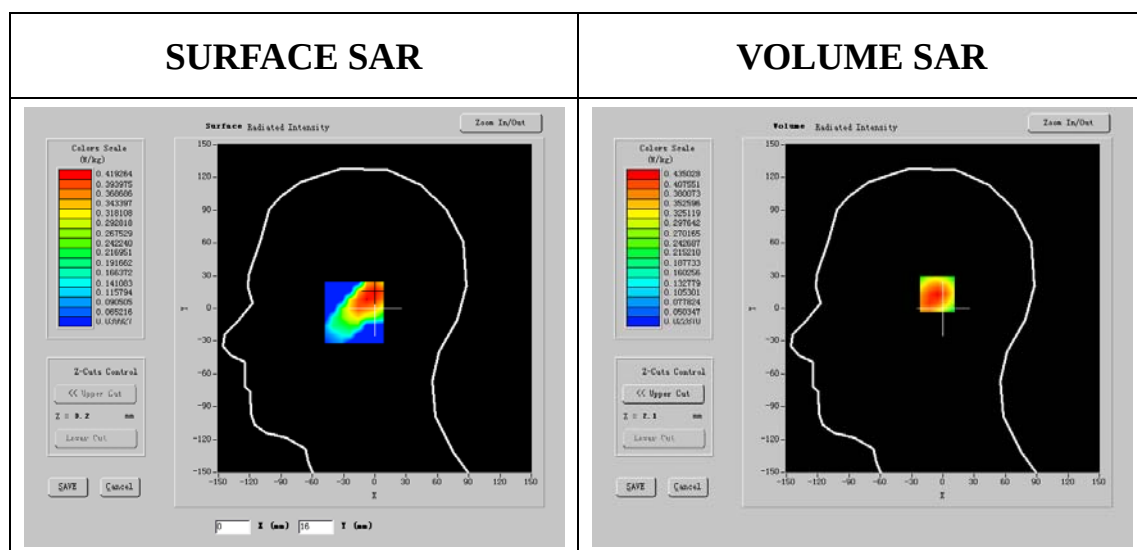
Phantom File	zinf15.txt, Adaptive 2 max
Phantom	Left head
Device Position	Cheek
Band	WCDMA band V
Channels	Low
Signal	WCDMA

B. Instrumentations.

PC	HP (Pentium(R) V3.06GHz, SN:375052-AA1)	Calibrated: N/A
Network Emulator	R&S (CMU200, SN:B23-03291)	Calibrated: 06/17/2009
Voltmeter	Keithley (2000, SN:1015843)	Calibrated: 05/01/2009
Synthetizer	Agilent (E8257C, SN:MY43321570)	Calibrated: 08/07/2009
Amplifier	Mini-Circuits (ZHL-42, SN:110405)	Calibrated: 07/29/2009
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibrated: 07/29/2009
Probe	Antennessa (SN:SN_1109_EP_100)	Calibrated: 04/16/2009
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibrated: N/A
Liquid	Antennessa	Calibrated: N/A
Measurement SW:	OPEN SAR V2.1	Calibrated: N/A

C. SAR Measurement Results

Frequency (MHz)	826.203202
Relative permittivity (real part)	41.461055
Relative permittivity (imaginary part)	19.563889
Conductivity (S/m)	0.891547
Variation (%)	-0.250000

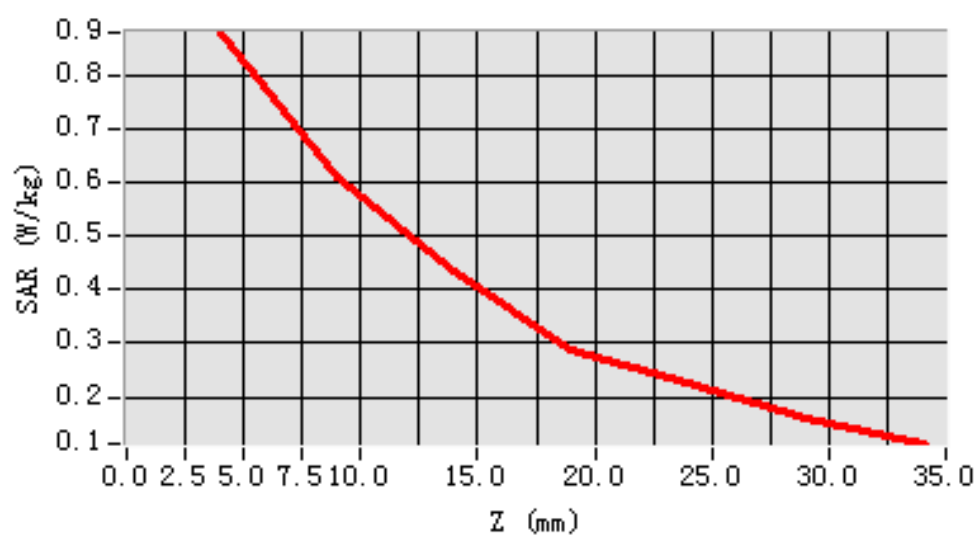


Maximum location: X=-25.00, Y=-11.00

SAR 10g (W/Kg)	0.120004
SAR 1g (W/Kg)	0.271345

Z Axis Scan

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



MEASUREMENT 8

Type: Phone measurement (Complete)

Date of measurement: 04/16/2010

Measurement duration: 20 minutes 2 seconds

Mobile Phone IMEI number: --

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

Crest Factor: WCDMA Duty cycle: 1:1

Medium parameters used: $f=836.6\text{MHz}$; $\sigma=41.47\text{mho/m}$; $\epsilon_r=0.92$; $\rho=1000\text{kg/m}^3$

Area Scan: 7 x 7 x 1 dx=15mm dy=15mm

Zoom Scan: 5 x 5 x 7 dx=5mm dy=5mm dz=5mm

Z Axis Scan: 1 x 1 x 21 dx=20mm dy=20mm dz=5mm

A. Experimental conditions.

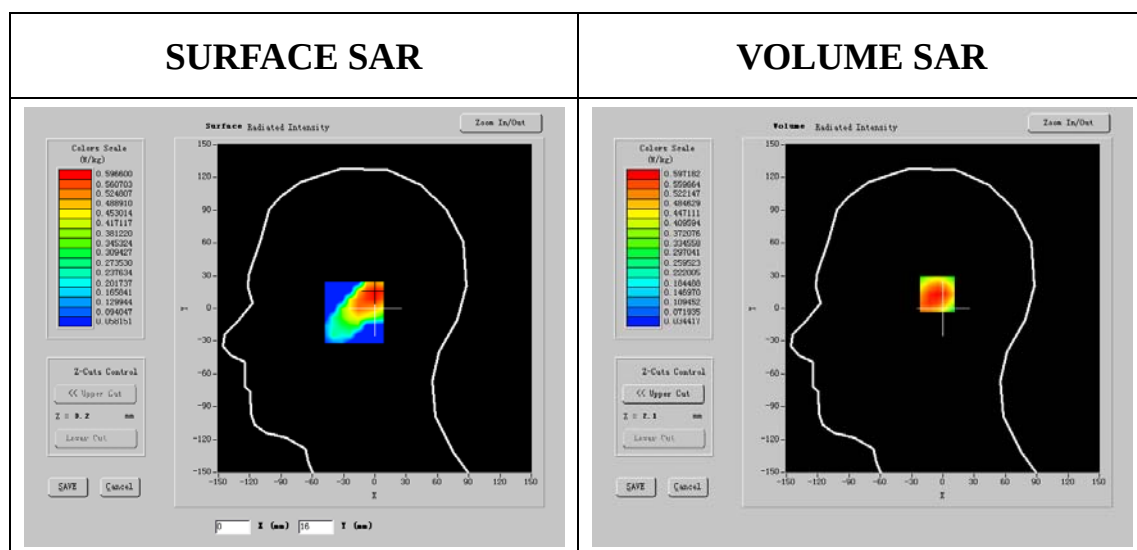
Phantom File	zinf15.txt, Adaptive 2 max
Phantom	Left head
Device Position	Cheek
Band	WCDMA band V
Channels	Middle
Signal	WCDMA

B. Instrumentations.

PC	HP (Pentium(R) V3.06GHz, SN:375052-AA1)	Calibrated: N/A
Network Emulator	R&S (CMU200, SN:B23-03291)	Calibrated: 06/17/2009
Voltmeter	Keithley (2000, SN:1015843)	Calibrated: 05/01/2009
Synthetizer	Agilent (E8257C, SN:MY43321570)	Calibrated: 08/07/2009
Amplifier	Mini-Circuits (ZHL-42, SN:110405)	Calibrated: 07/29/2009
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibrated: 07/29/2009
Probe	Antennessa (SN:SN_1109_EP_100)	Calibrated: 04/16/2009
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibrated: N/A
Liquid	Antennessa	Calibrated: N/A
Measurement SW:	OPEN SAR V2.1	Calibrated: N/A

C. SAR Measurement Results

Frequency (MHz)	836.600010
Relative permittivity (real part)	41.471230
Relative permittivity (imaginary part)	19.575333
Conductivity (S/m)	0.918997
Variation (%)	-0.230000

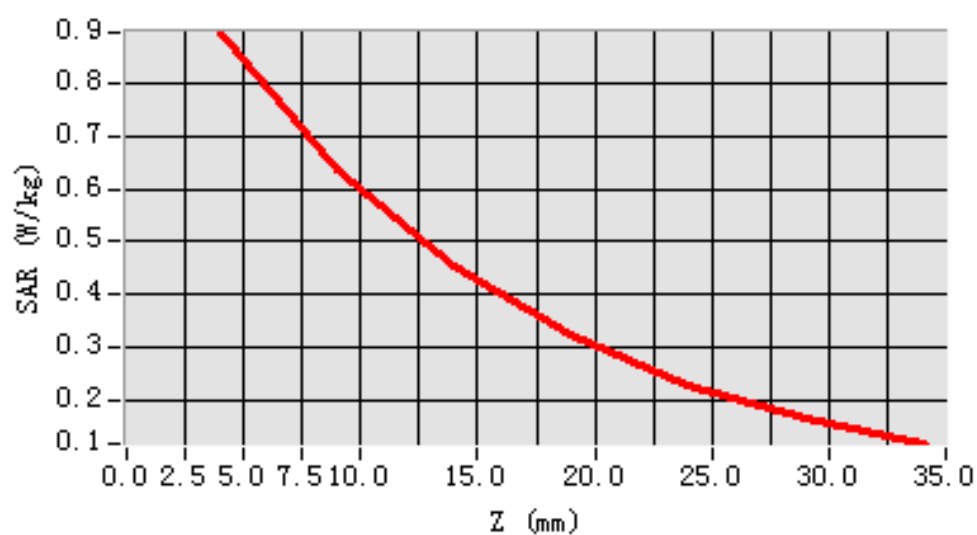


Maximum location: X=-25.00, Y=-11.00

SAR 10g (W/Kg)	0.180034
SAR 1g (W/Kg)	0.324879

Z Axis Scan

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



MEASUREMENT 9

Type: Phone measurement (Complete)

Date of measurement: 04/16/2010

Measurement duration: 20 minutes 2 seconds

Mobile Phone IMEI number: --

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

Crest Factor: WCDMA Duty cycle: 1:1

Medium parameters used: $f=848.8\text{MHz}$; $\sigma=41.41\text{mho/m}$; $\epsilon_r=0.93$; $\rho=1000\text{kg/m}^3$

Area Scan: 7 x 7 x 1

dx=15mm

dy=15mm

Zoom Scan: 5 x 5 x 7

dx=5mm

dy=5mm

dz=5mm

Z Axis Scan: 1 x 1 x 21

dx=20mm

dy=20mm

dz=5mm

A. Experimental conditions.

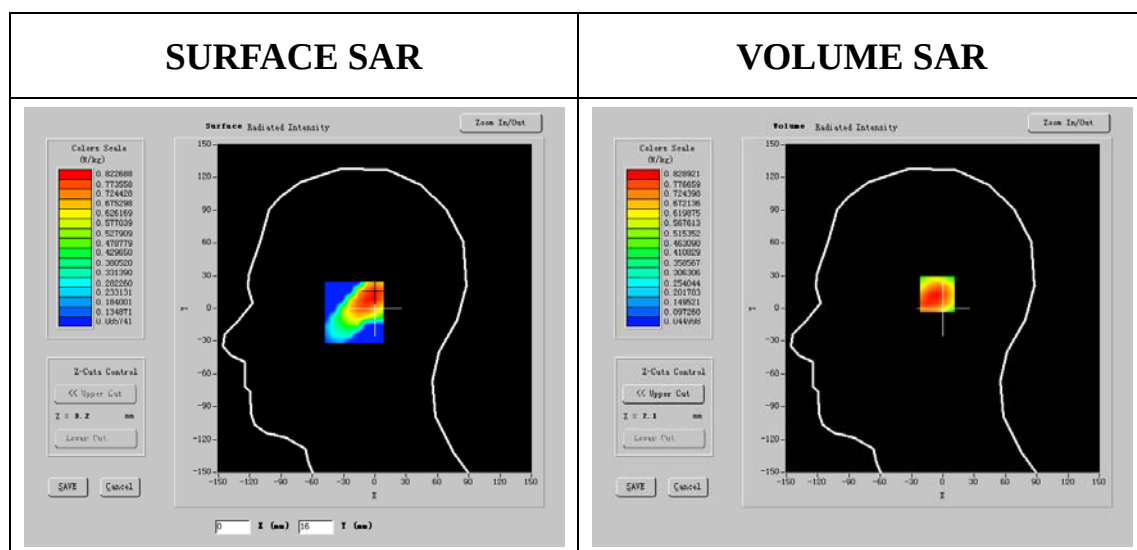
Phantom File	zinf15.txt, Adaptive 2 max
Phantom	Left head
Device Position	Cheek
Band	WCDMA band V
Channels	High
Signal	WCDMA

B. Instrumentations.

PC	HP (Pentium(R) V3.06GHz, SN:375052-AA1)	Calibrated: N/A
Network Emulator	R&S (CMU200, SN:B23-03291)	Calibrated: 06/17/2009
Voltmeter	Keithley (2000, SN:1015843)	Calibrated: 05/01/2009
Synthetizer	Agilent (E8257C, SN:MY43321570)	Calibrated: 08/07/2009
Amplifier	Mini-Circuits (ZHL-42, SN:110405)	Calibrated: 07/29/2009
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibrated: 07/29/2009
Probe	Antennessa (SN:SN_1109_EP_100)	Calibrated: 04/16/2009
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibrated: N/A
Liquid	Antennessa	Calibrated: N/A
Measurement SW:	OPEN SAR V2.1	Calibrated: N/A

C. SAR Measurement Results

Frequency (MHz)	846.592416
Relative permittivity (real part)	41.406180
Relative permittivity (imaginary part)	19.574326
Conductivity (S/m)	0.930115
Variation (%)	-1.300000

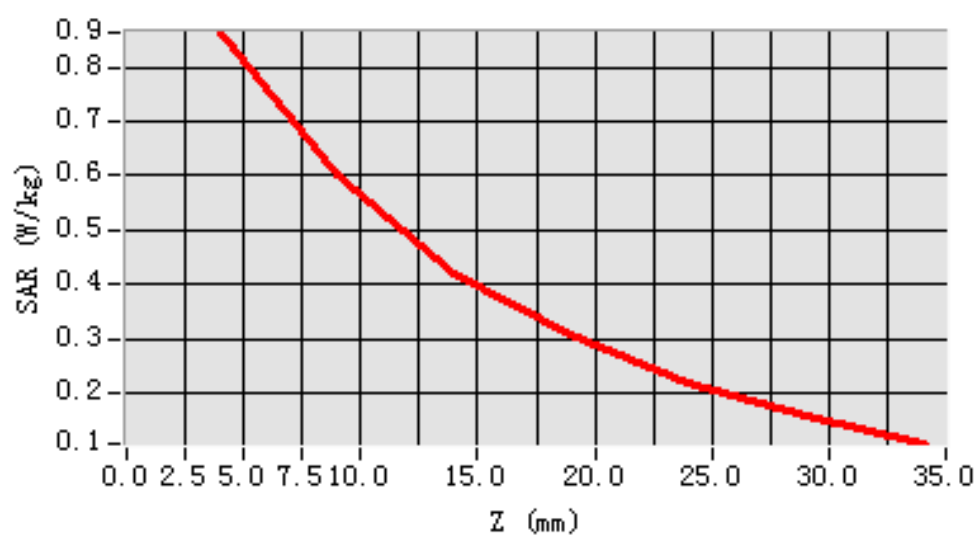


Maximum location: X=-25.00, Y=-11.00

SAR 10g (W/Kg)	0.115344
SAR 1g (W/Kg)	0.267410

Z Axis Scan

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



MEASUREMENT 10

Type: Phone measurement (Complete)

Date of measurement: 04/16/2010

Measurement duration: 19 minutes 49 seconds

Mobile Phone IMEI number: --

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

Crest Factor: WCDMA Duty cycle: 1:1

Medium parameters used: $f=826.2\text{MHz}$; $\sigma=41.45\text{mho/m}$; $\epsilon_r=0.92$; $\rho=1000\text{kg/m}^3$

Area Scan: 7 x 7 x 1 dx=15mm dy=15mm

Zoom Scan: 5 x 5 x 7 dx=5mm dy=5mm dz=5mm

Z Axis Scan: 1 x 1 x 21 dx=20mm dy=20mm dz=5mm

A. Experimental conditions.

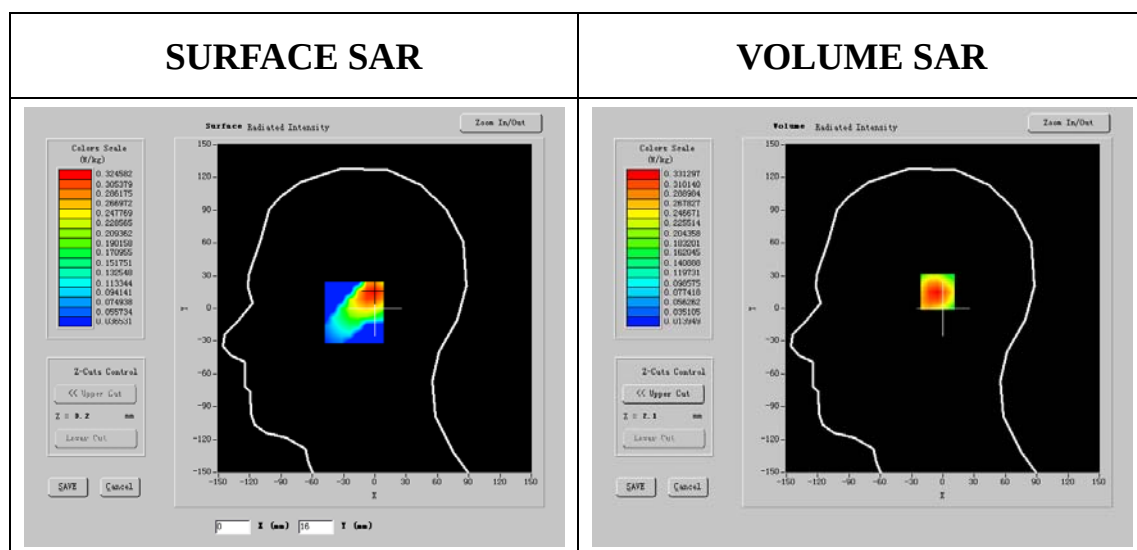
Phantom File	zinf15.txt, Adaptive 2 max
Phantom	Left head
Device Position	Tilt
Band	WCDMA band V
Channels	Low
Signal	WCDMA

B. Instrumentations.

PC	HP (Pentium(R) V3.06GHz, SN:375052-AA1)	Calibrated: N/A
Network Emulator	R&S (CMU200, SN:B23-03291)	Calibrated: 06/17/2009
Voltmeter	Keithley (2000, SN:1015843)	Calibrated: 05/01/2009
Synthetizer	Agilent (E8257C, SN:MY43321570)	Calibrated: 08/07/2009
Amplifier	Mini-Circuits (ZHL-42, SN:110405)	Calibrated: 07/29/2009
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibrated: 07/29/2009
Probe	Antennessa (SN:SN_1109_EP_100)	Calibrated: 04/16/2009
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibrated: N/A
Liquid	Antennessa	Calibrated: N/A
Measurement SW:	OPEN SAR V2.1	Calibrated: N/A

C. SAR Measurement Results

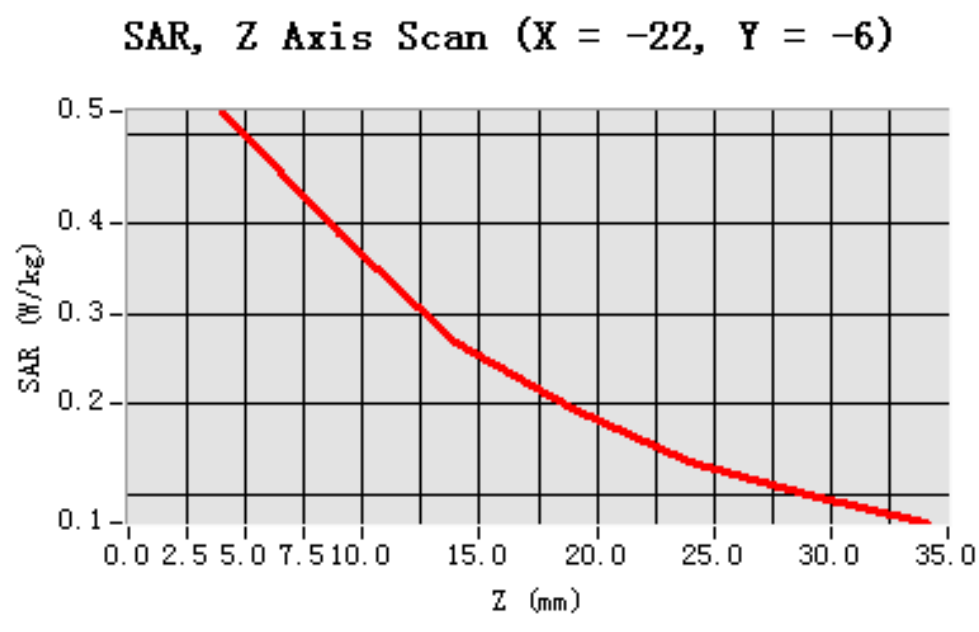
Frequency (MHz)	826.203202
Relative permittivity (real part)	41.451347
Relative permittivity (imaginary part)	19.581234
Conductivity (S/m)	0.921230
Variation (%)	-0.200000



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

SAR 10g (W/Kg)	0.117219
SAR 1g (W/Kg)	0.164339

Z Axis Scan



MEASUREMENT 11

Type: Phone measurement (Complete)

Date of measurement: 04/16/2010

Measurement duration: 19 minutes 49 seconds

Mobile Phone IMEI number: --

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

Crest Factor: WCDMA Duty cycle: 1:1

Medium parameters used: $f=836.6\text{MHz}$; $\sigma=41.46\text{mho/m}$; $\epsilon_r=0.92$; $\rho=1000\text{kg/m}^3$

Area Scan: 7 x 7 x 1 dx=15mm dy=15mm

Zoom Scan: 5 x 5 x 7 dx=5mm dy=5mm dz=5mm

Z Axis Scan: 1 x 1 x 21 dx=20mm dy=20mm dz=5mm

A. Experimental conditions.

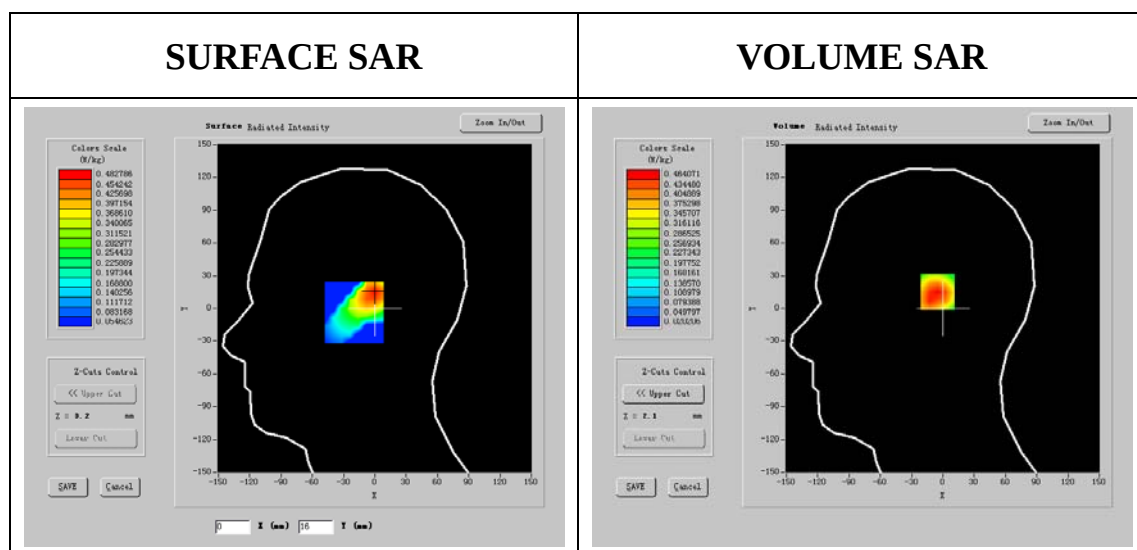
Phantom File	zinf15.txt, Adaptive 2 max
Phantom	Left head
Device Position	Tilt
Band	WCDMA band V
Channels	Middle
Signal	WCDMA

B. Instrumentations.

PC	HP (Pentium(R) V3.06GHz, SN:375052-AA1)	Calibrated: N/A
Network Emulator	R&S (CMU200, SN:B23-03291)	Calibrated: 06/17/2009
Voltmeter	Keithley (2000, SN:1015843)	Calibrated: 05/01/2009
Synthetizer	Agilent (E8257C, SN:MY43321570)	Calibrated: 08/07/2009
Amplifier	Mini-Circuits (ZHL-42, SN:110405)	Calibrated: 07/29/2009
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibrated: 07/29/2009
Probe	Antennessa (SN:SN_1109_EP_100)	Calibrated: 04/16/2009
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibrated: N/A
Liquid	Antennessa	Calibrated: N/A
Measurement SW:	OPEN SAR V2.1	Calibrated: N/A

C. SAR Measurement Results

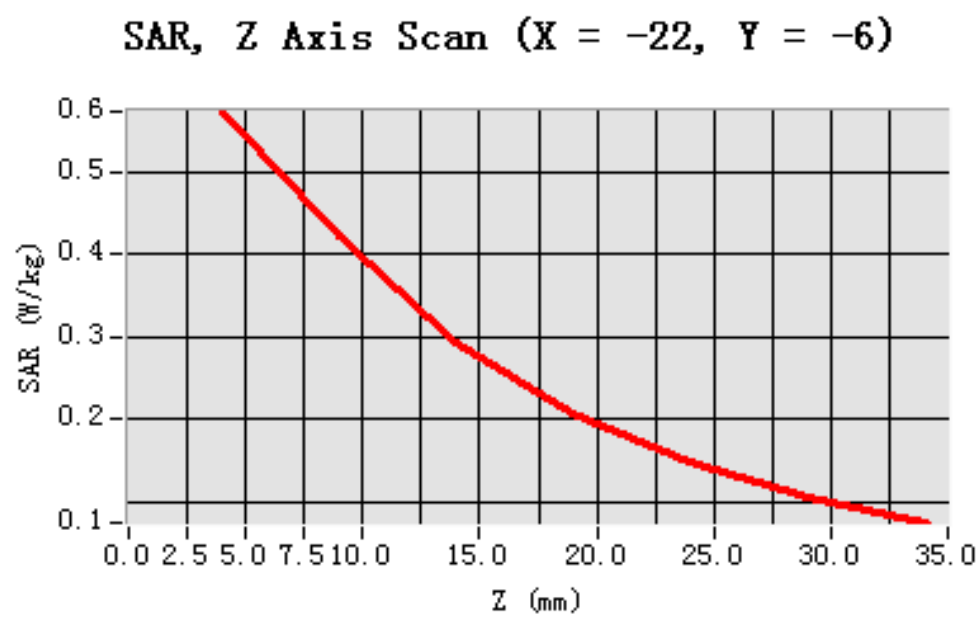
Frequency (MHz)	836.602124
Relative permittivity (real part)	41.461320
Relative permittivity (imaginary part)	19.581774
Conductivity (S/m)	0.921108
Variation (%)	-0.010000



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

SAR 10g (W/Kg)	0.123420
SAR 1g (W/Kg)	0.200314

Z Axis Scan



MEASUREMENT 12

Type: Phone measurement (Complete)

Date of measurement: 04/16/2010

Measurement duration: 19 minutes 49 seconds

Mobile Phone IMEI number: --

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

Crest Factor: WCDMA Duty cycle: 1:1

Medium parameters used: $f=848.8\text{MHz}$; $\sigma=41.46\text{mho/m}$; $\epsilon_r=0.92$; $\rho=1000\text{kg/m}^3$

Area Scan: 7 x 7 x 1 dx=15mm dy=15mm

Zoom Scan: 5 x 5 x 7 dx=5mm dy=5mm dz=5mm

Z Axis Scan: 1 x 1 x 21 dx=20mm dy=20mm dz=5mm

A. Experimental conditions.

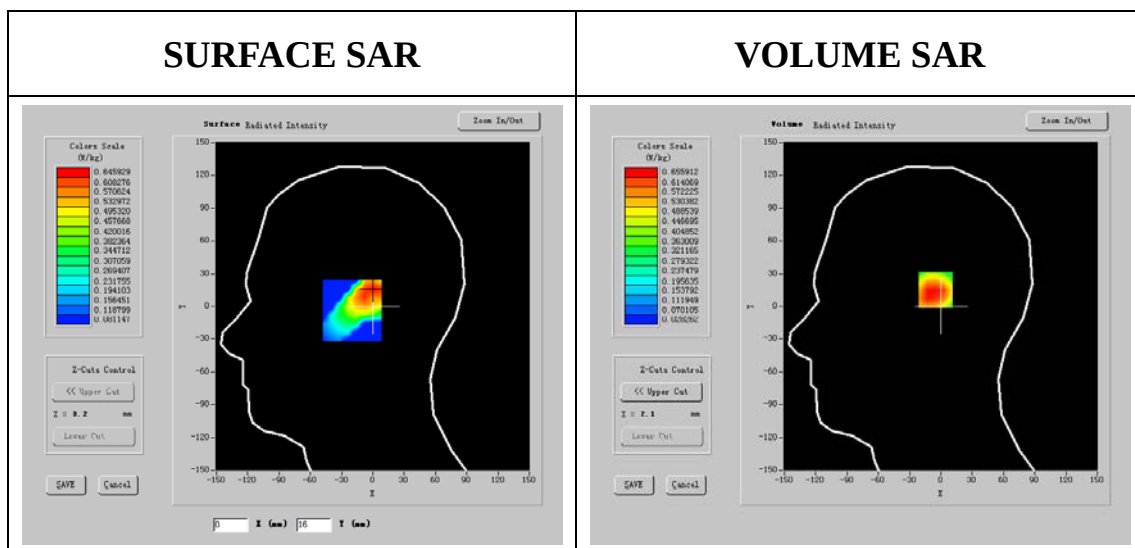
Phantom File	zinf15.txt, Adaptive 2 max
Phantom	Left head
Device Position	Tilt
Band	WCDMA band V
Channels	High
Signal	WCDMA

B. Instrumentations.

PC	HP (Pentium(R) V3.06GHz, SN:375052-AA1)	Calibrated: N/A
Network Emulator	R&S (CMU200, SN:B23-03291)	Calibrated: 06/17/2009
Voltmeter	Keithley (2000, SN:1015843)	Calibrated: 05/01/2009
Synthetizer	Agilent (E8257C, SN:MY43321570)	Calibrated: 08/07/2009
Amplifier	Mini-Circuits (ZHL-42, SN:110405)	Calibrated: 07/29/2009
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibrated: 07/29/2009
Probe	Antennessa (SN:SN_1109_EP_100)	Calibrated: 04/16/2009
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibrated: N/A
Liquid	Antennessa	Calibrated: N/A
Measurement SW:	OPEN SAR V2.1	Calibrated: N/A

C. SAR Measurement Results

Frequency (MHz)	846.790120
Relative permittivity (real part)	41.459975
Relative permittivity (imaginary part)	19.583446
Conductivity (S/m)	0.922784
Variation (%)	-1.100000

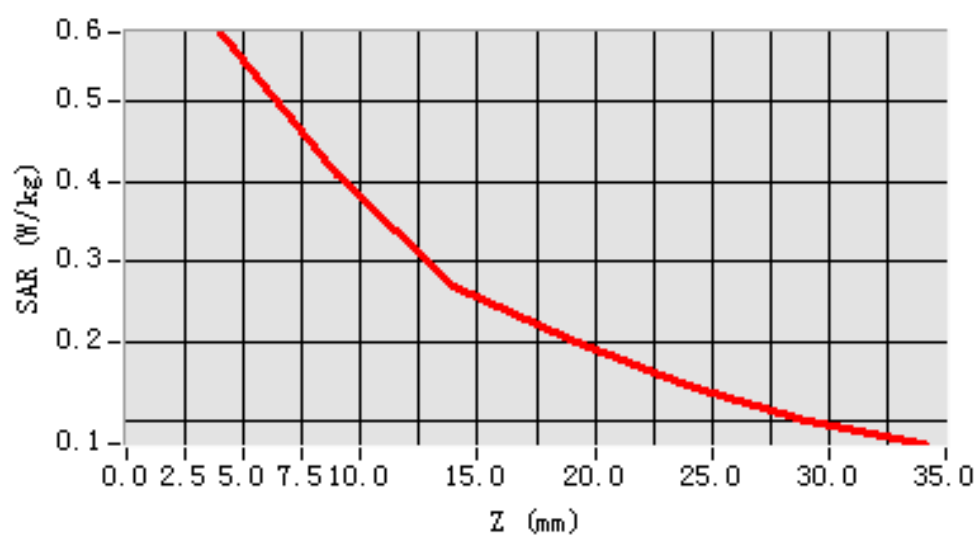


Maximum location: X=-22.00, Y=-6.00

SAR 10g (W/Kg)	0.108531
SAR 1g (W/Kg)	0.175137

Z Axis Scan

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



MEASUREMENT 13

Type: Phone measurement (Complete)

Date of measurement: 04/16/2010

Measurement duration: 14 minutes 29 seconds

Mobile Phone IMEI number:

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

Crest Factor: WCDMA Duty cycle: 1:1

Medium parameters used: $f=826.2\text{MHz}$; $\sigma=56.52\text{mho/m}$; $\epsilon_r=0.97$; $\rho=1000\text{kg/m}^3$

Area Scan: 7 x 7 x 1

dx=15mm

dy=15mm

Zoom Scan: 5 x 5 x 7

dx=5mm

dy=5mm

dz=5mm

Z Axis Scan: 1 x 1 x 21

dx=20mm

dy=20mm

dz=5mm

A. Experimental conditions.

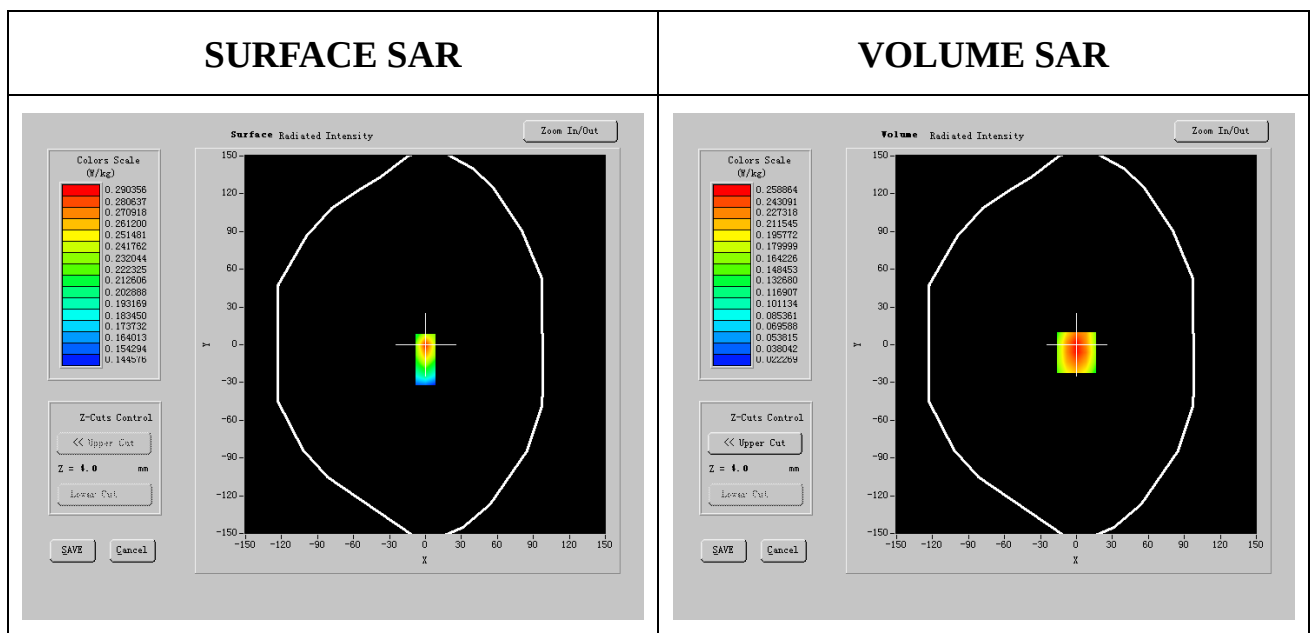
Phantom File	surf_sam_plan.txt, Adaptive 2 max
Phantom	Validation plane
Device Position	Body
Band	WCDMA band V
Channels	Low
Signal	WCDMA

B. Instrumentations.

PC	HP (Pentium(R) V3.06GHz, SN:375052-AA1)	Calibrated: N/A
Network Emulator	R&S (CMU200, SN:B23-03291)	Calibrated: 06/17/2009
Voltmeter	Keithley (2000, SN:1015843)	Calibrated: 05/01/2009
Synthetizer	Agilent (E8257C, SN:MY43321570)	Calibrated: 08/07/2009
Amplifier	Mini-Circuits (ZHL-42, SN:110405)	Calibrated: 07/29/2009
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibrated: 07/29/2009
Probe	Antennessa (SN:SN_1109_EP_100)	Calibrated: 04/16/2009
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibrated: N/A
Liquid	Antennessa	Calibrated: N/A
Measurement SW:	OPEN SAR V2.1	Calibrated: N/A

C. SAR Measurement Results

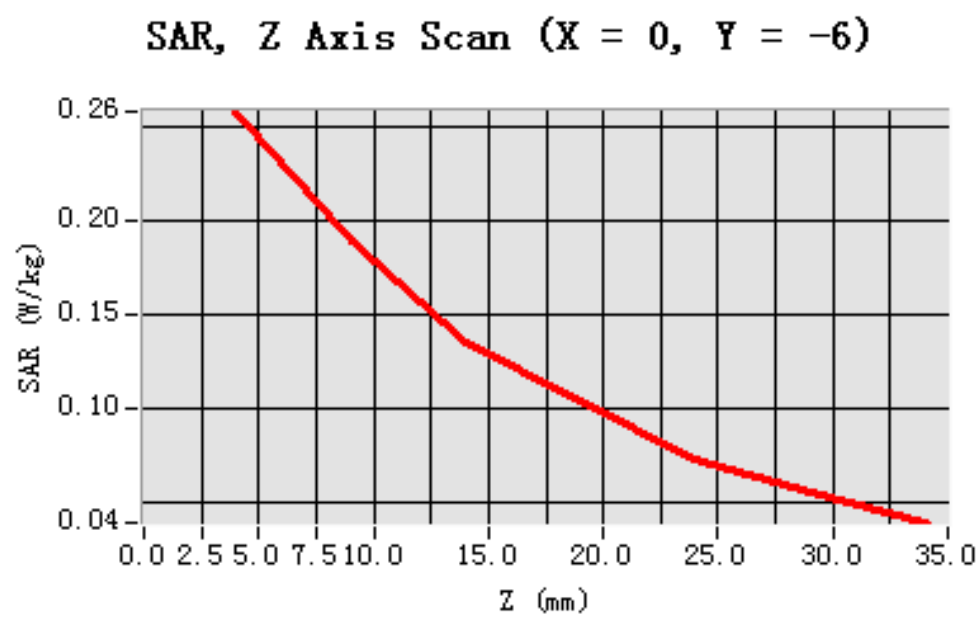
Frequency (MHz)	826.400002
Relative permittivity (real part)	56.519664
Relative permittivity (imaginary part)	21.251330
Conductivity (S/m)	0.973547
Variation (%)	-1.130000



Maximum location: X=0.00, Y=-6.00

SAR 10g (W/Kg)	0.091348
SAR 1g (W/Kg)	0.186222

Z Axis Scan



MEASUREMENT 14

Type: Phone measurement (Complete)

Date of measurement: 04/16/2010

Measurement duration: 14 minutes 29 seconds

Mobile Phone IMEI number:

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

Crest Factor: WCDMA Duty cycle: 1:1

Medium parameters used: $f=836.6\text{MHz}$; $\sigma=56.50\text{mho/m}$; $\epsilon_r=0.97$; $\rho=1000\text{kg/m}^3$

Area Scan: 7 x 7 x 1 dx=15mm dy=15mm

Zoom Scan: 5 x 5 x 7 dx=5mm dy=5mm dz=5mm

Z Axis Scan: 1 x 1 x 21 dx=20mm dy=20mm dz=5mm

A. Experimental conditions.

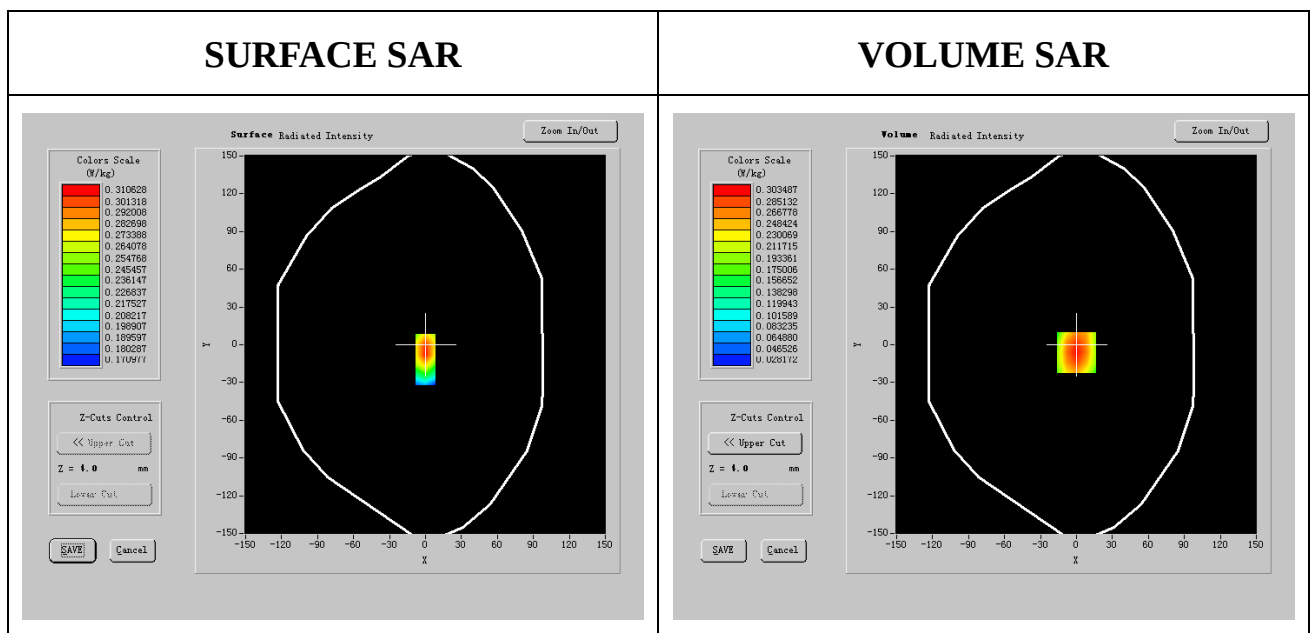
Phantom File	surf_sam_plan.txt, Adaptive 2 max
Phantom	Validation plane
Device Position	Body
Band	WCDMA band V
Channels	Middle
Signal	WCDMA

B. Instrumentations.

PC	HP (Pentium(R) V3.06GHz, SN:375052-AA1)	Calibrated: N/A
Network Emulator	R&S (CMU200, SN:B23-03291)	Calibrated: 06/17/2009
Voltmeter	Keithley (2000, SN:1015843)	Calibrated: 05/01/2009
Synthetizer	Agilent (E8257C, SN:MY43321570)	Calibrated: 08/07/2009
Amplifier	Mini-Circuits (ZHL-42, SN:110405)	Calibrated: 07/29/2009
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibrated: 07/29/2009
Probe	Antennessa (SN:SN_1109_EP_100)	Calibrated: 04/16/2009
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibrated: N/A
Liquid	Antennessa	Calibrated: N/A
Measurement SW:	OPEN SAR V2.1	Calibrated: N/A

C. SAR Measurement Results

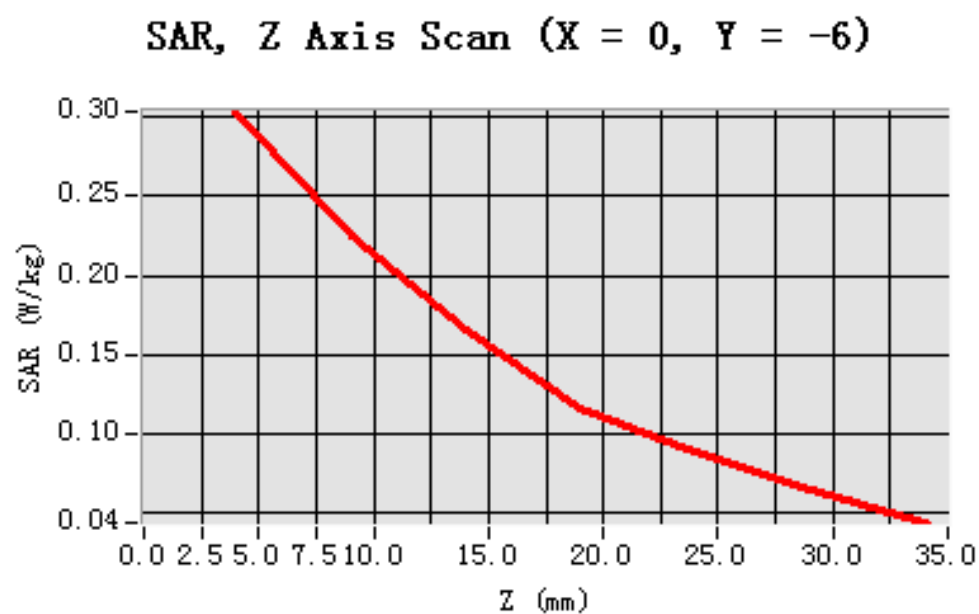
Frequency (MHz)	836.600204
Relative permittivity (real part)	56.500133
Relative permittivity (imaginary part)	21.841544
Conductivity (S/m)	0.973048
Variation (%)	-1.200000



Maximum location: X=0.00, Y=-6.00

SAR 10g (W/Kg)	0.105214
SAR 1g (W/Kg)	0.200577

Z Axis Scan



MEASUREMENT 15

Type: Phone measurement (Complete)

Date of measurement: 04/16/2010

Measurement duration: 14 minutes 29 seconds

Mobile Phone IMEI number:

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

Crest Factor: WCDMA Duty cycle: 1:1

Medium parameters used: $f=848.8\text{MHz}$; $\sigma=56.52\text{mho/m}$; $\epsilon_r=0.97$; $\rho=1000\text{kg/m}^3$

Area Scan: 7 x 7 x 1

dx=15mm

dy=15mm

Zoom Scan: 5 x 5 x 7

dx=5mm

dy=5mm

dz=5mm

Z Axis Scan: 1 x 1 x 21

dx=20mm

dy=20mm

dz=5mm

A. Experimental conditions.

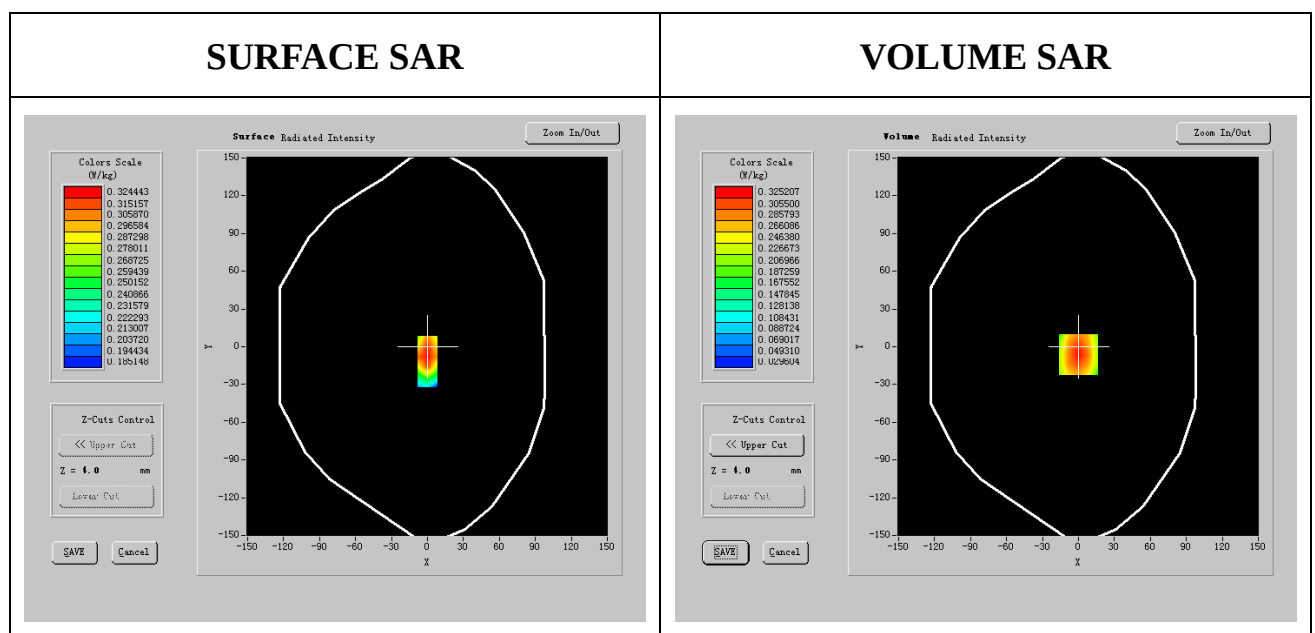
Phantom File	surf_sam_plan.txt, Adaptive 2 max
Phantom	Validation plane
Device Position	Body
Band	WCDMA band V
Channels	High
Signal	WCDMA

B. Instrumentations.

PC	HP (Pentium(R) V3.06GHz, SN:375052-AA1)	Calibrated: N/A
Network Emulator	R&S (CMU200, SN:B23-03291)	Calibrated: 06/17/2009
Voltmeter	Keithley (2000, SN:1015843)	Calibrated: 05/01/2009
Synthetizer	Agilent (E8257C, SN:MY43321570)	Calibrated: 08/07/2009
Amplifier	Mini-Circuits (ZHL-42, SN:110405)	Calibrated: 07/29/2009
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibrated: 07/29/2009
Probe	Antennessa (SN:SN_1109_EP_100)	Calibrated: 04/16/2009
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibrated: N/A
Liquid	Antennessa	Calibrated: N/A
Measurement SW:	OPEN SAR V2.1	Calibrated: N/A

C. SAR Measurement Results

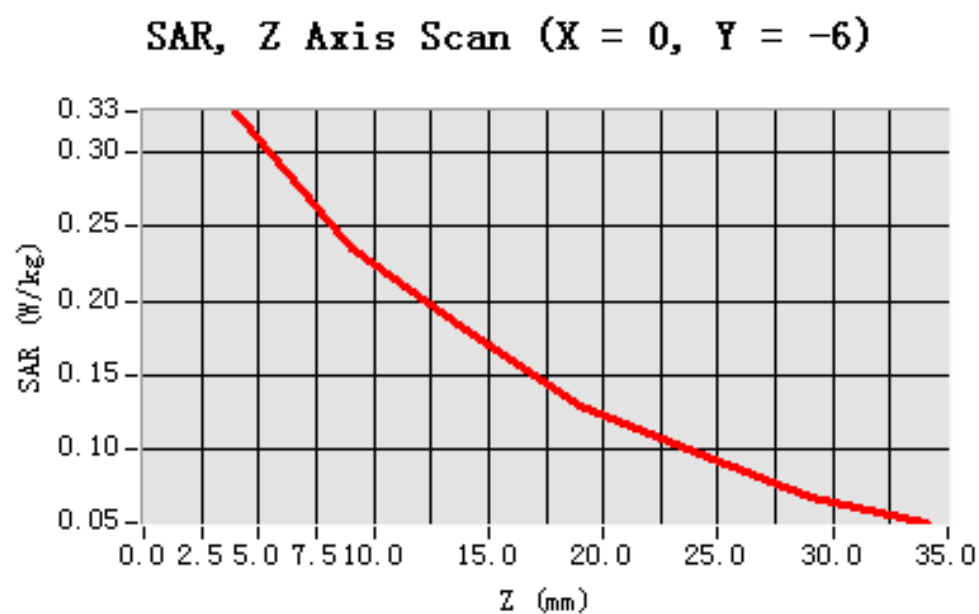
Frequency (MHz)	846.862406
Relative permittivity (real part)	56.523500
Relative permittivity (imaginary part)	21.793006
Conductivity (S/m)	0.972841
Variation (%)	-1.310000



Maximum location: X=0.00, Y=-6.00

SAR 10g (W/Kg)	0.097115
SAR 1g (W/Kg)	0.190456

Z Axis Scan



MEASUREMENT 16

Type: Phone measurement (Complete)

Date of measurement: 04/16/2010

Measurement duration: 14 minutes 29 seconds

Mobile Phone IMEI number:

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

Crest Factor: WCDMA Duty cycle: 1:1

Medium parameters used: $f=826.2\text{MHz}$; $\sigma=56.52\text{mho/m}$; $\epsilon_r=0.97$; $\rho=1000\text{kg/m}^3$

Area Scan: 7 x 7 x 1 dx=15mm dy=15mm

Zoom Scan: 5 x 5 x 7 dx=5mm dy=5mm dz=5mm

Z Axis Scan: 1 x 1 x 21 dx=20mm dy=20mm dz=5mm

A. Experimental conditions.

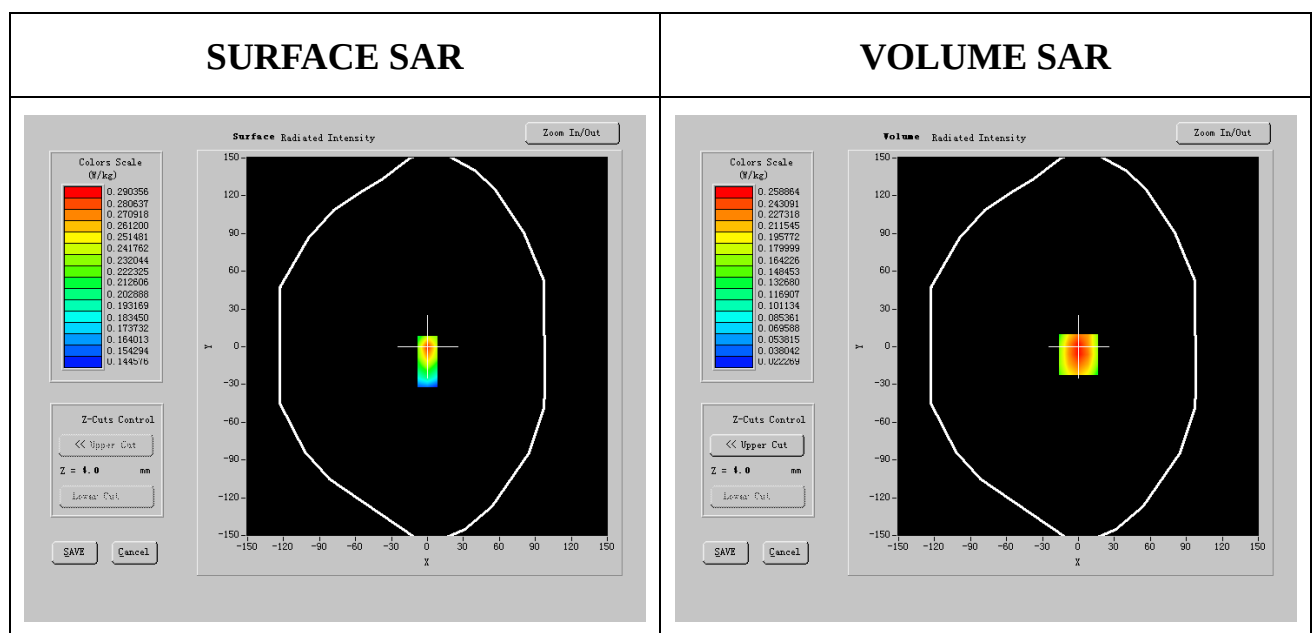
Phantom File	surf_sam_plan.txt, Adaptive 2 max
Phantom	Validation plane
Device Position	Body
Band	HSDPA BAND V
Channels	Low
Signal	WCDMA

B. Instrumentations.

PC	HP (Pentium(R) V3.06GHz, SN:375052-AA1)	Calibrated: N/A
Network Emulator	R&S (CMU200, SN:B23-03291)	Calibrated: 06/17/2009
Voltmeter	Keithley (2000, SN:1015843)	Calibrated: 05/01/2009
Synthetizer	Agilent (E8257C, SN:MY43321570)	Calibrated: 08/07/2009
Amplifier	Mini-Circuits (ZHL-42, SN:110405)	Calibrated: 07/29/2009
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibrated: 07/29/2009
Probe	Antennessa (SN:SN_1109_EP_100)	Calibrated: 04/16/2009
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibrated: N/A
Liquid	Antennessa	Calibrated: N/A
Measurement SW:	OPEN SAR V2.1	Calibrated: N/A

C. SAR Measurement Results

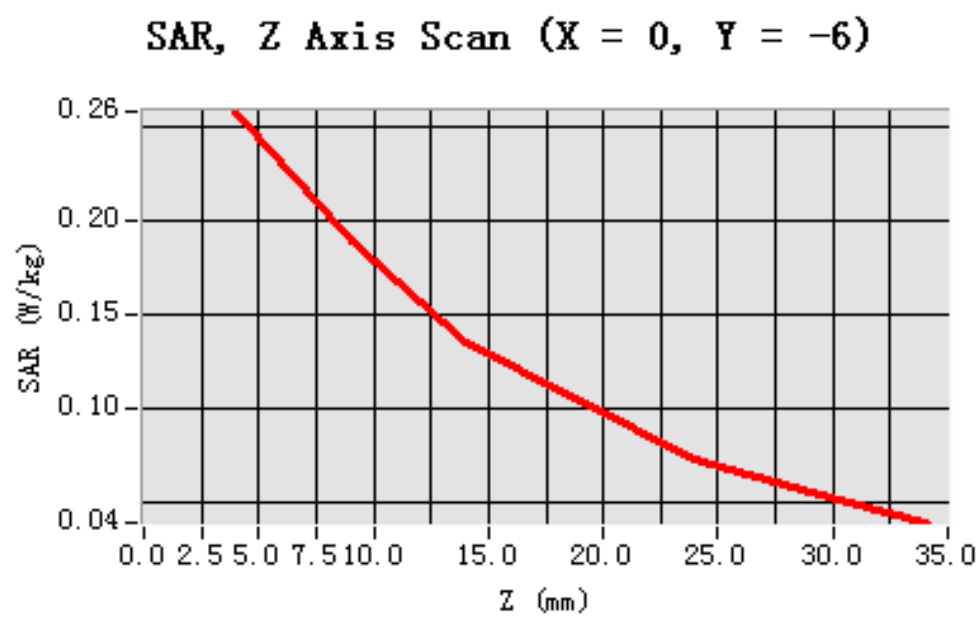
Frequency (MHz)	826.400002
Relative permittivity (real part)	56.523884
Relative permittivity (imaginary part)	21.250339
Conductivity (S/m)	0.971852
Variation (%)	-1.130000



Maximum location: X=0.00, Y=-6.00

SAR 10g (W/Kg)	0.090111
SAR 1g (W/Kg)	0.183126

Z Axis Scan



MEASUREMENT 17

Type: Phone measurement (Complete)

Date of measurement: 04/16/2010

Measurement duration: 14 minutes 29 seconds

Mobile Phone IMEI number:

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

Crest Factor: WCDMA Duty cycle: 1:1

Medium parameters used: $f=836.6\text{MHz}$; $\sigma=56.50\text{mho/m}$; $\epsilon_r=0.97$; $\rho=1000\text{kg/m}^3$

Area Scan: 7 x 7 x 1

dx=15mm

dy=15mm

Zoom Scan: 5 x 5 x 7

dx=5mm

dy=5mm

dz=5mm

Z Axis Scan: 1 x 1 x 21

dx=20mm

dy=20mm

dz=5mm

A. Experimental conditions.

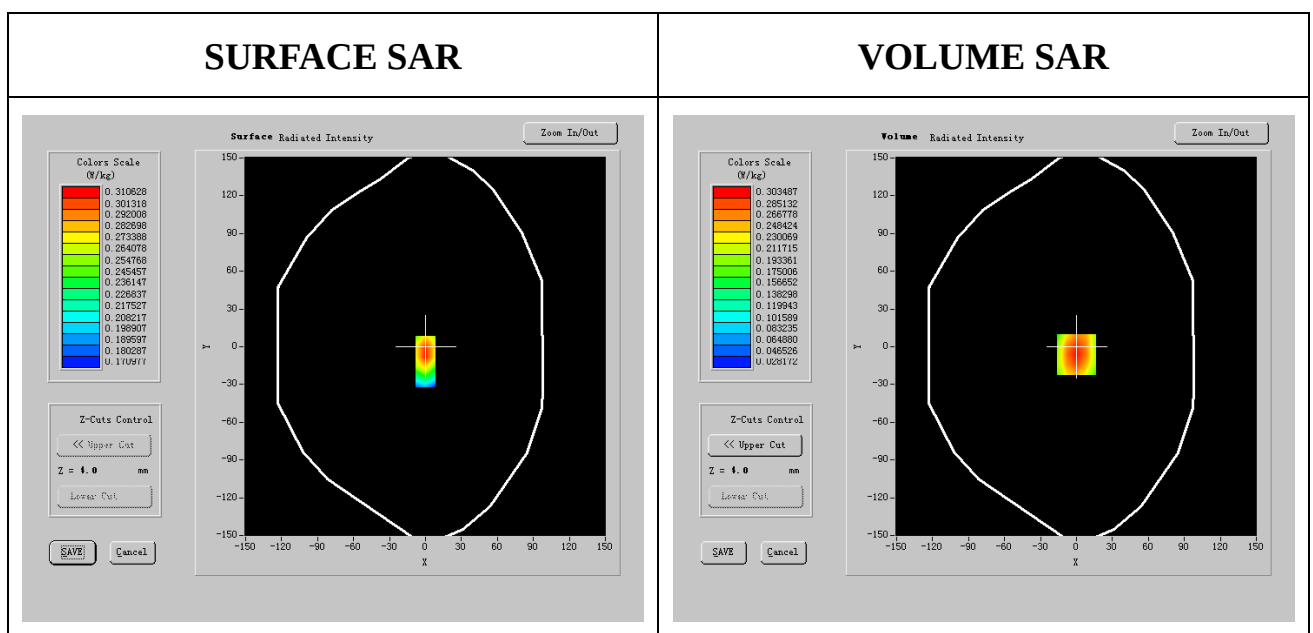
Phantom File	surf_sam_plan.txt, Adaptive 2 max
Phantom	Validation plane
Device Position	Body
Band	HSDPA BAND V
Channels	Middle
Signal	WCDMA

B. Instrumentations.

PC	HP (Pentium(R) V3.06GHz, SN:375052-AA1)	Calibrated: N/A
Network Emulator	R&S (CMU200, SN:B23-03291)	Calibrated: 06/17/2009
Voltmeter	Keithley (2000, SN:1015843)	Calibrated: 05/01/2009
Synthetizer	Agilent (E8257C, SN:MY43321570)	Calibrated: 08/07/2009
Amplifier	Mini-Circuits (ZHL-42, SN:110405)	Calibrated: 07/29/2009
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibrated: 07/29/2009
Probe	Antennessa (SN:SN_1109_EP_100)	Calibrated: 04/16/2009
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibrated: N/A
Liquid	Antennessa	Calibrated: N/A
Measurement SW:	OPEN SAR V2.1	Calibrated: N/A

C. SAR Measurement Results

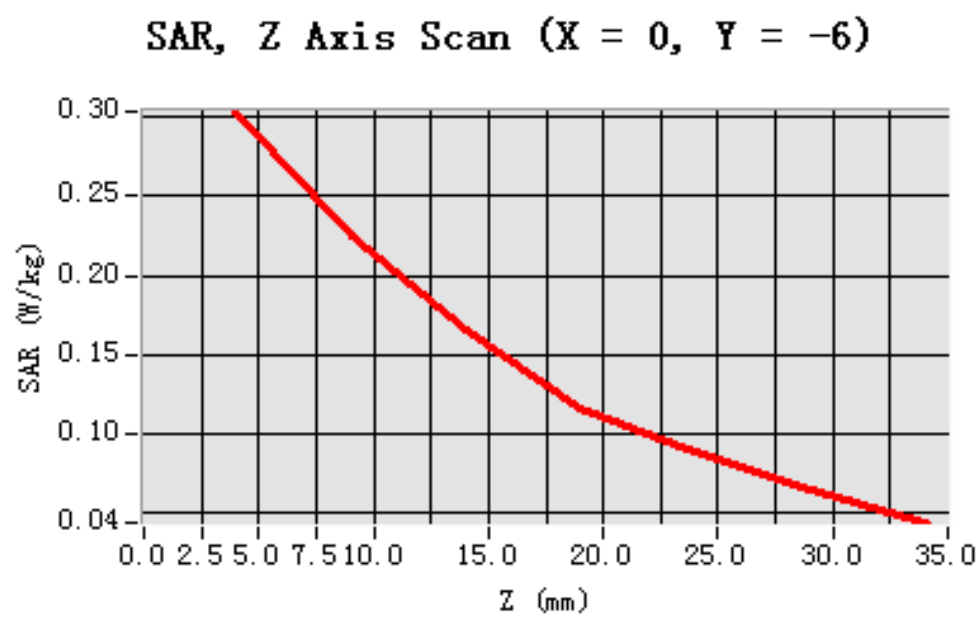
Frequency (MHz)	836.600204
Relative permittivity (real part)	56.500336
Relative permittivity (imaginary part)	21.841775
Conductivity (S/m)	0.974308
Variation (%)	-1.200000



Maximum location: X=0.00, Y=-6.00

SAR 10g (W/Kg)	0.116448
SAR 1g (W/Kg)	0.197443

Z Axis Scan



MEASUREMENT 18

Type: Phone measurement (Complete)

Date of measurement: 04/16/2010

Measurement duration: 14 minutes 29 seconds

Mobile Phone IMEI number:

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

Crest Factor: WCDMA Duty cycle: 1:1

Medium parameters used: $f=848.8\text{MHz}$; $\sigma=56.52\text{mho/m}$; $\epsilon_r=0.97$; $\rho=1000\text{kg/m}^3$

Area Scan: 7 x 7 x 1

dx=15mm

dy=15mm

Zoom Scan: 5 x 5 x 7

dx=5mm

dy=5mm

dz=5mm

Z Axis Scan: 1 x 1 x 21

dx=20mm

dy=20mm

dz=5mm

A. Experimental conditions.

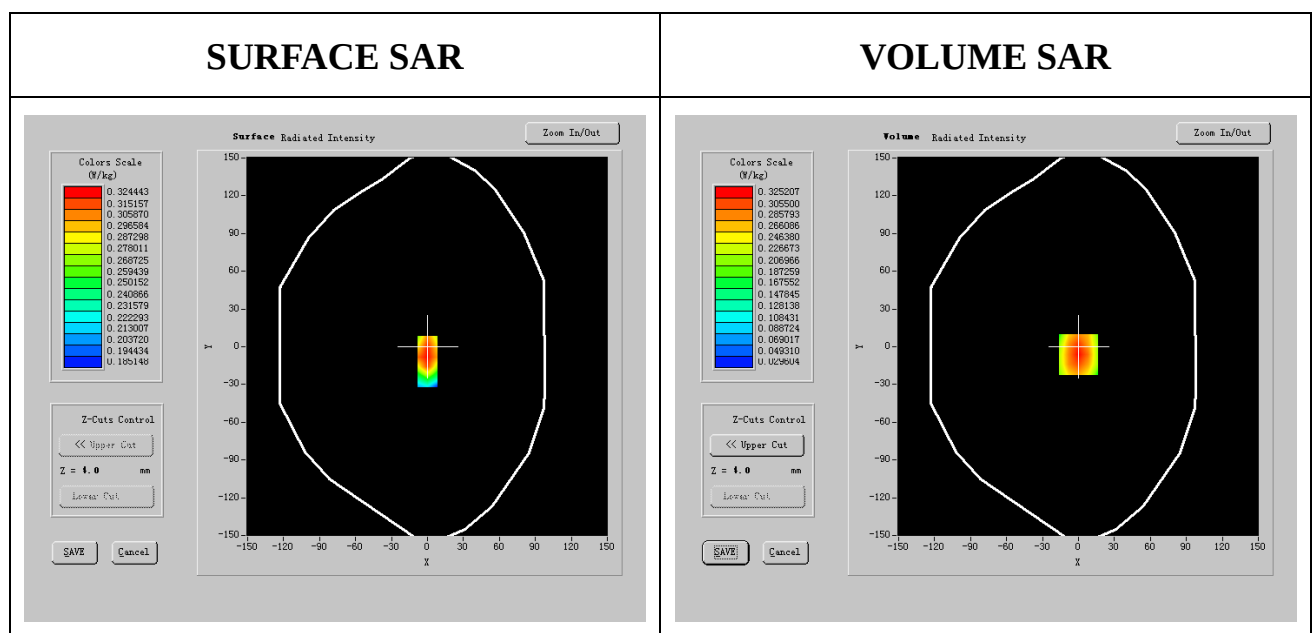
Phantom File	surf_sam_plan.txt, Adaptive 2 max
Phantom	Validation plane
Device Position	Body
Band	HADPA BAND V
Channels	High
Signal	WCDMA

B. Instrumentations.

PC	HP (Pentium(R) V3.06GHz, SN:375052-AA1)	Calibrated: N/A
Network Emulator	R&S (CMU200, SN:B23-03291)	Calibrated: 06/17/2009
Voltmeter	Keithley (2000, SN:1015843)	Calibrated: 05/01/2009
Synthesizer	Agilent (E8257C, SN:MY43321570)	Calibrated: 08/07/2009
Amplifier	Mini-Circuits (ZHL-42, SN:110405)	Calibrated: 07/29/2009
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibrated: 07/29/2009
Probe	Antennessa (SN:SN_1109_EP_100)	Calibrated: 04/16/2009
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibrated: N/A
Liquid	Antennessa	Calibrated: N/A
Measurement SW:	OPEN SAR V2.1	Calibrated: N/A

C. SAR Measurement Results

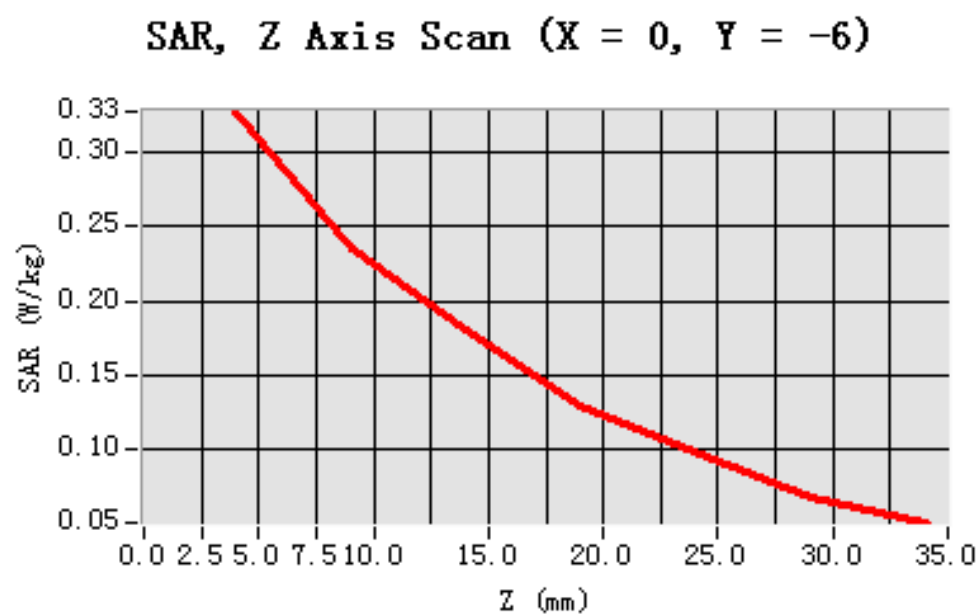
Frequency (MHz)	846.862406
Relative permittivity (real part)	56.524112
Relative permittivity (imaginary part)	21.792205
Conductivity (S/m)	0.973211
Variation (%)	-1.310000



Maximum location: X=0.00, Y=-6.00

SAR 10g (W/Kg)	0.094316
SAR 1g (W/Kg)	0.189157

Z Axis Scan



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 <u>Measurement 2:</u> Right Head with Cheek device position on Middle Channel in GSM mode <u>Measurement 3:</u> Right Head with Cheek device position on High Channel in GSM mode <u>Measurement 4:</u> Right Head with Tilt device position on Low Channel in GSM mode <u>Measurement 5:</u> Right Head with Tilt device position on Middle Channel in GSM mode <u>Measurement 6:</u> Right Head with Tilt device position on High Channel in GSM mode <u>Measurement 7:</u> Left Head with Cheek device position on Low Channel in GSM mode <u>Measurement 8:</u> Left Head with Cheek device position on Middle Channel in GSM mode <u>Measurement 9:</u> Left Head with Cheek device position on High Channel in GSM mode <u>Measurement 10:</u> Left Head with Tilt device position on Low Channel in GSM mode <u>Measurement 11:</u> Left Head with Tilt device position on Middle Channel in GSM mode <u>Measurement 12:</u> Left Head with Tilt device position on High Channel in GSM mode <u>Measurement 13:</u> Validation Plane with Body device position on Low Channel in GSM mode <u>Measurement 14:</u> Validation Plane with Body device position on Middle Channel in GSM mode <u>Measurement 15:</u> Validation Plane with Body device position on High Channel in GSM mode

MEASUREMENT 1

Type: Phone measurement (Complete)

Date of measurement: 04/16/2010

Measurement duration: 15 minutes 3 seconds

Mobile Phone IMEI number: --

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

Crest Factor: GSM Duty cycle: 1:8

Medium parameters used: $f=1850.2\text{MHz}$; $\sigma=40.30\text{mho/m}$; $\epsilon_r=1.44$; $\rho=1000\text{kg/m}^3$

Area Scan: 7 x 7 x 1 dx=15mm dy=15mm

Zoom Scan: 5 x 5 x 7 dx=5mm dy=5mm dz=5mm

Z Axis Scan: 1 x 1 x 21 dx=20mm dy=20mm dz=5mm

A. Experimental conditions.

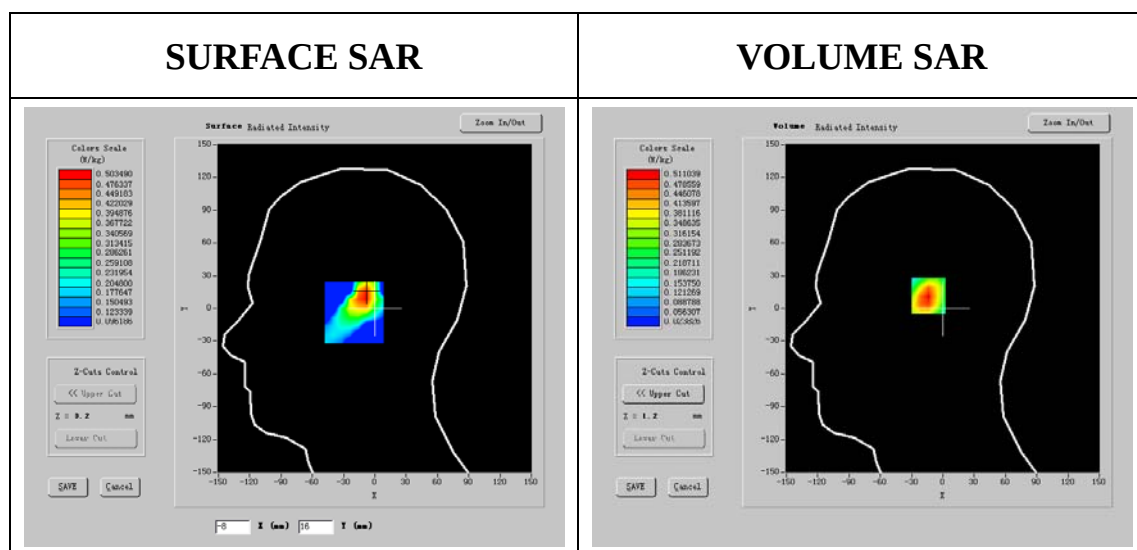
Phantom File	zinf15.txt, Adaptive 2 max
Phantom	Right head
Device Position	Cheek
Band	GSM1900
Channels	Low
Signal	GSM

B. Instrumentations.

PC	HP (Pentium(R) V3.06GHz, SN:375052-AA1)	Calibrated: N/A
Network Emulator	R&S (CMU200, SN:B23-03291)	Calibrated: 06/17/2009
Voltmeter	Keithley (2000, SN:1015843)	Calibrated: 05/01/2009
Synthetizer	Agilent (E8257C, SN:MY43321570)	Calibrated: 08/07/2009
Amplifier	Mini-Circuits (ZHL-42, SN:110405)	Calibrated: 07/29/2009
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibrated: 07/29/2009
Probe	Antennessa (SN:SN_1109_EP_100)	Calibrated: 04/16/2009
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibrated: N/A
Liquid	Antennessa	Calibrated: N/A
Measurement SW:	OPEN SAR V2.1	Calibrated: N/A

C. SAR Measurement Results

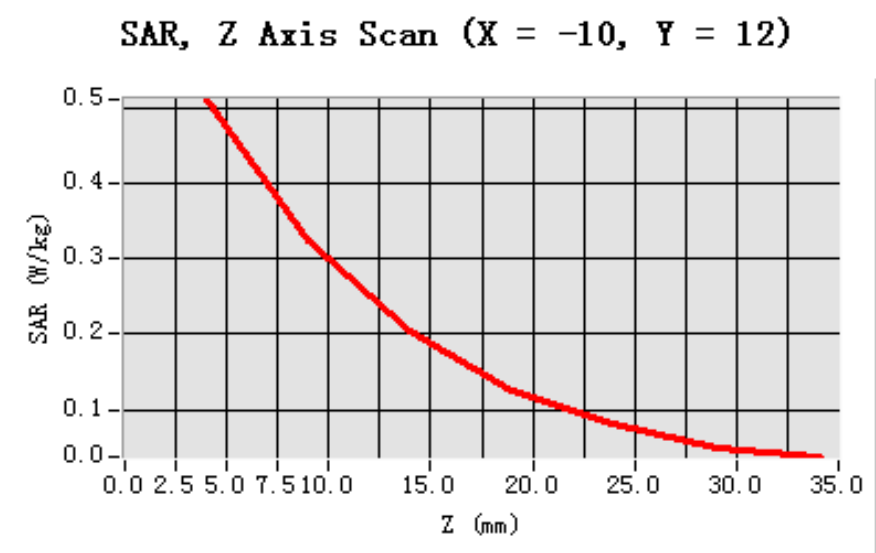
Frequency (MHz)	1850.200024
Relative permittivity (real part)	40.301000
Relative permittivity (imaginary part)	13.546000
Conductivity (S/m)	1.442058
Variation (%)	-1.200000



Maximum location: X=-10.00, Y=12.00

SAR 10g (W/Kg)	0.311647
SAR 1g (W/Kg)	0.653807

Z Axis Scan



MEASUREMENT 2

Type: Phone measurement (Complete)

Date of measurement: 04/16/2010

Measurement duration: 15 minutes 3 seconds

Mobile Phone IMEI number: --

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

Crest Factor: GSM Duty cycle: 1:8

Medium parameters used: $f=1880.0\text{MHz}$; $\sigma=40.21\text{mho/m}$; $\epsilon_r=1.42$; $\rho=1000\text{kg/m}^3$

Area Scan: 7 x 7 x 1

dx=15mm

dy=15mm

Zoom Scan: 5 x 5 x 7

dx=5mm

dy=5mm

dz=5mm

Z Axis Scan: 1 x 1 x 21

dx=20mm

dy=20mm

dz=5mm

A. Experimental conditions.

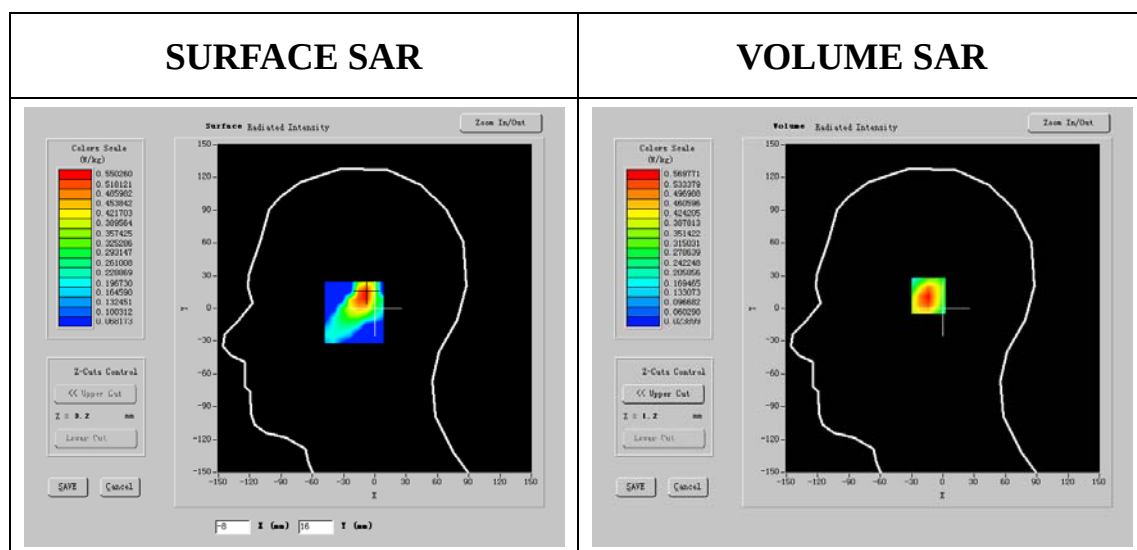
Phantom File	zinf15.txt, Adaptive 2 max
Phantom	Right head
Device Position	Cheek
Band	GSM1900
Channels	Middle
Signal	GSM

B. Instrumentations.

PC	HP (Pentium(R) V3.06GHz, SN:375052-AA1)	Calibrated: N/A
Network Emulator	R&S (CMU200, SN:B23-03291)	Calibrated: 06/17/2009
Voltmeter	Keithley (2000, SN:1015843)	Calibrated: 05/01/2009
Synthetizer	Agilent (E8257C, SN:MY43321570)	Calibrated: 08/07/2009
Amplifier	Mini-Circuits (ZHL-42, SN:110405)	Calibrated: 07/29/2009
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibrated: 07/29/2009
Probe	Antennessa (SN:SN_1109_EP_100)	Calibrated: 04/16/2009
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibrated: N/A
Liquid	Antennessa	Calibrated: N/A
Measurement SW:	OPEN SAR V2.1	Calibrated: N/A

C. SAR Measurement Results

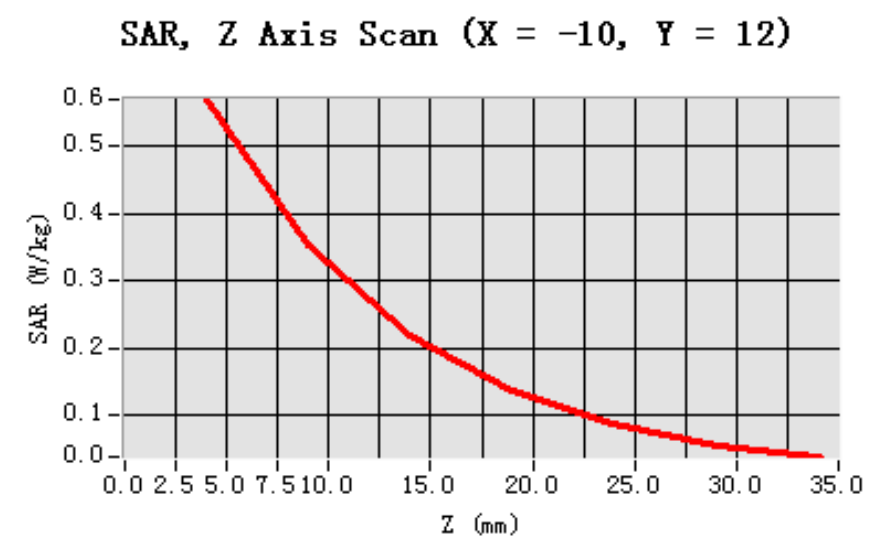
Frequency (MHz)	1880.000000
Relative permittivity (real part)	40.212201
Relative permittivity (imaginary part)	13.845200
Conductivity (S/m)	1.423205
Variation (%)	-0.300000



Maximum location: X=-10.00, Y=12.00

SAR 10g (W/Kg)	0.338107
SAR 1g (W/Kg)	0.680049

Z Axis Scan



MEASUREMENT 3

Type: Phone measurement (Complete)

Date of measurement: 04/16/2010

Measurement duration: 15 minutes 3 seconds

Mobile Phone IMEI number: --

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

Crest Factor: GSM Duty cycle: 1:8

Medium parameters used: $f=1910.0\text{MHz}$; $\sigma=40.21\text{mho/m}$; $\epsilon_r=1.44$; $\rho=1000\text{kg/m}^3$

Area Scan: 7 x 7 x 1 dx=15mm dy=15mm

Zoom Scan: 5 x 5 x 7 dx=5mm dy=5mm dz=5mm

Z Axis Scan: 1 x 1 x 21 dx=20mm dy=20mm dz=5mm

A. Experimental conditions.

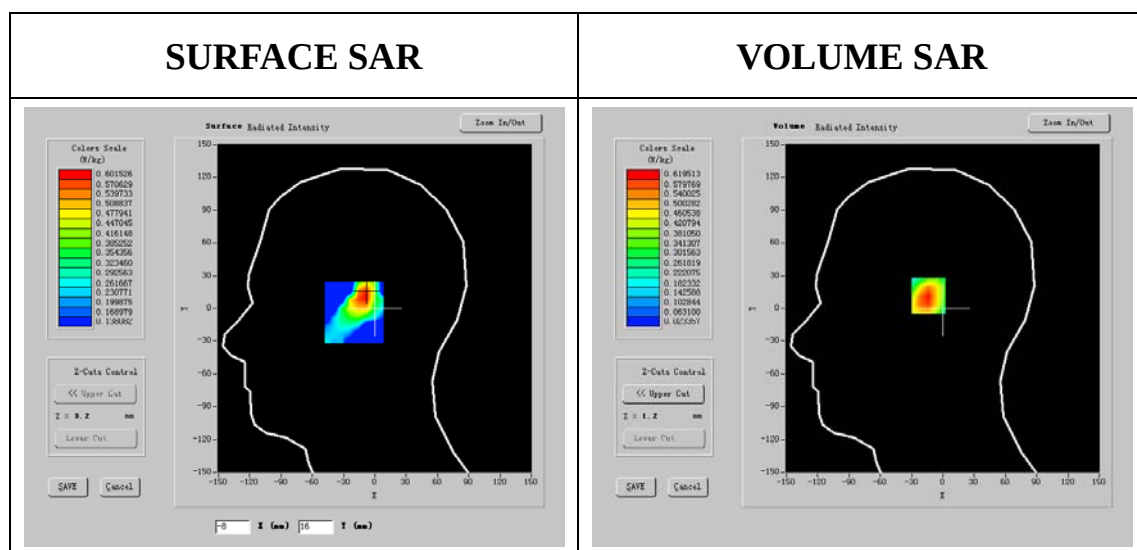
Phantom File	zinf15.txt, Adaptive 2 max
Phantom	Right head
Device Position	Cheek
Band	GSM1900
Channels	High
Signal	GSM

B. Instrumentations.

PC	HP (Pentium(R) V3.06GHz, SN:375052-AA1)	Calibrated: N/A
Network Emulator	R&S (CMU200, SN:B23-03291)	Calibrated: 06/17/2009
Voltmeter	Keithley (2000, SN:1015843)	Calibrated: 05/01/2009
Synthetizer	Agilent (E8257C, SN:MY43321570)	Calibrated: 08/07/2009
Amplifier	Mini-Circuits (ZHL-42, SN:110405)	Calibrated: 07/29/2009
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibrated: 07/29/2009
Probe	Antennessa (SN:SN_1109_EP_100)	Calibrated: 04/16/2009
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibrated: N/A
Liquid	Antennessa	Calibrated: N/A
Measurement SW:	OPEN SAR V2.1	Calibrated: N/A

C. SAR Measurement Results

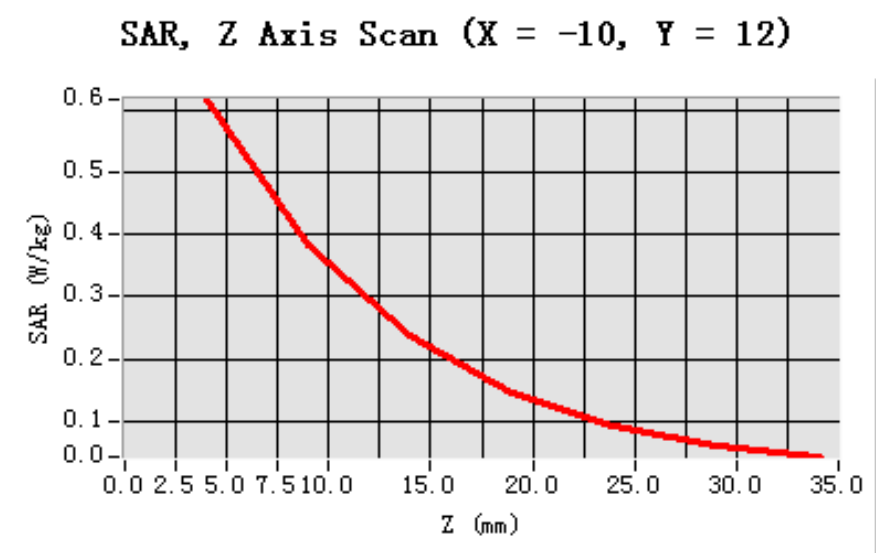
Frequency (MHz)	1910.000216
Relative permittivity (real part)	40.212109
Relative permittivity (imaginary part)	13.646200
Conductivity (S/m)	1.440245
Variation (%)	-0.300000



Maximum location: X=-10.00, Y=12.00

SAR 10g (W/Kg)	0.320448
SAR 1g (W/Kg)	0.664359

Z Axis Scan



MEASUREMENT 4

Type: Phone measurement (Complete)

Date of measurement: 04/16/2010

Measurement duration: 14 minutes 27 seconds

Mobile Phone IMEI number: --

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

Crest Factor: GSM Duty cycle: 1:8

Medium parameters used: $f=1850.2\text{MHz}$; $\sigma=40.22\text{mho/m}$; $\epsilon_r=1.44$; $\rho=1000\text{kg/m}^3$

Area Scan: 7 x 7 x 1 dx=15mm dy=15mm

Zoom Scan: 5 x 5 x 7 dx=5mm dy=5mm dz=5mm

Z Axis Scan: 1 x 1 x 21 dx=20mm dy=20mm dz=5mm

A. Experimental conditions.

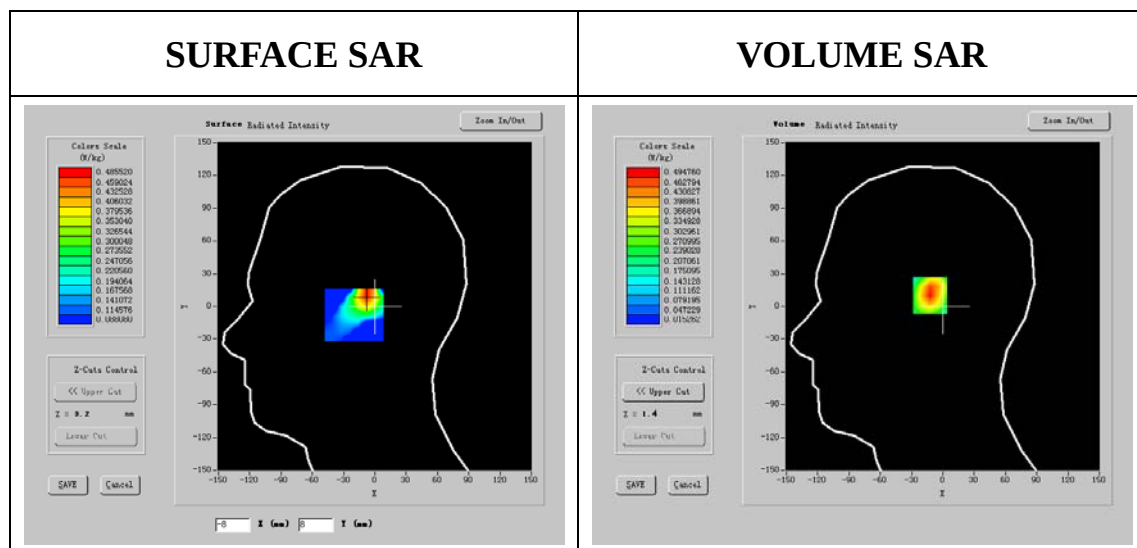
Phantom File	zinf15.txt, Adaptive 2 max
Phantom	Right head
Device Position	Tilt
Band	GSM1900
Channels	Low
Signal	GSM

B. Instrumentations.

PC	HP (Pentium(R) V3.06GHz, SN:375052-AA1)	Calibrated: N/A
Network Emulator	R&S (CMU200, SN:B23-03291)	Calibrated: 06/17/2009
Voltmeter	Keithley (2000, SN:1015843)	Calibrated: 05/01/2009
Synthesizer	Agilent (E8257C, SN:MY43321570)	Calibrated: 08/07/2009
Amplifier	Mini-Circuits (ZHL-42, SN:110405)	Calibrated: 07/29/2009
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibrated: 07/29/2009
Probe	Antennessa (SN:SN_1109_EP_100)	Calibrated: 04/16/2009
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibrated: N/A
Liquid	Antennessa	Calibrated: N/A
Measurement SW:	OPEN SAR V2.1	Calibrated: N/A

C. SAR Measurement Results

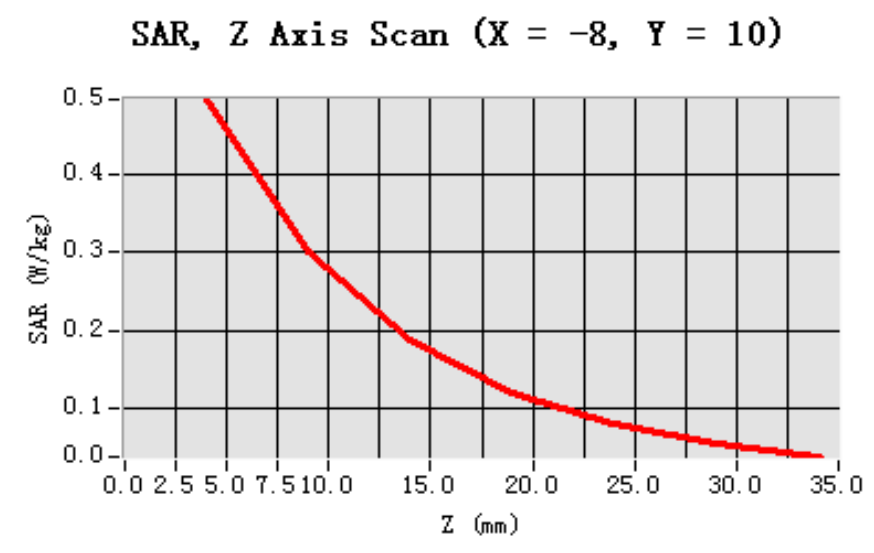
Frequency (MHz)	1850.200020
Relative permittivity (real part)	40.222030
Relative permittivity (imaginary part)	13.594100
Conductivity (S/m)	1.442108
Variation (%)	-1.400000



Maximum location: X=-8.00, Y=10.00

SAR 10g (W/Kg)	0.116894
SAR 1g (W/Kg)	0.293557

Z Axis Scan



MEASUREMENT 5

Type: Phone measurement (Complete)

Date of measurement: 04/16/2010

Measurement duration: 14 minutes 27 seconds

Mobile Phone IMEI number: --

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

Crest Factor: GSM Duty cycle: 1:8

Medium parameters used: $f=1880.0\text{MHz}$; $\sigma=40.21\text{mho/m}$; $\epsilon_r=1.44$; $\rho=1000\text{kg/m}^3$

Area Scan: 7 x 7 x 1 dx=15mm dy=15mm

Zoom Scan: 5 x 5 x 7 dx=5mm dy=5mm dz=5mm

Z Axis Scan: 1 x 1 x 21 dx=20mm dy=20mm dz=5mm

A. Experimental conditions.

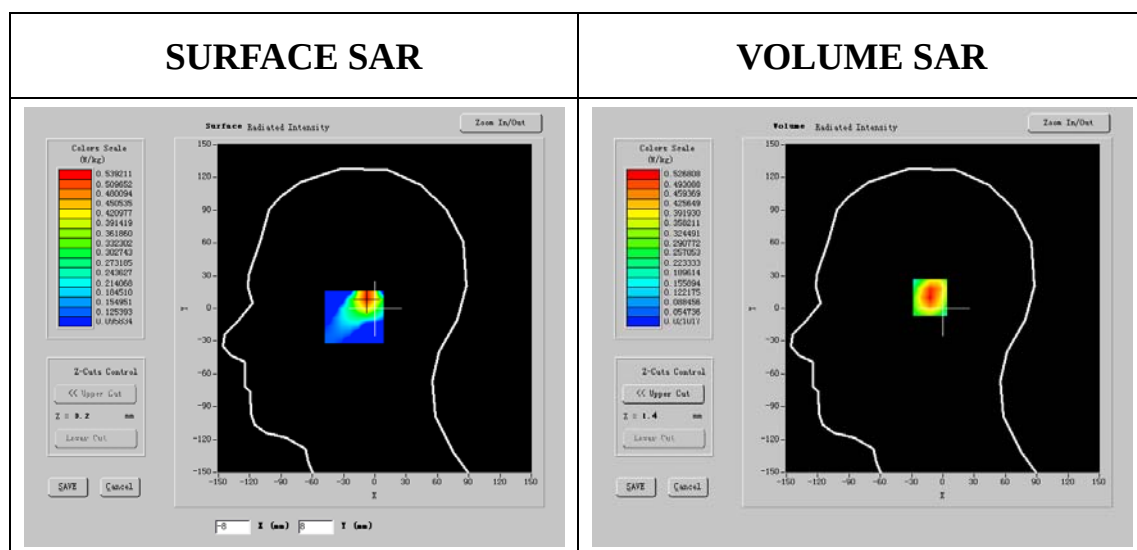
Phantom File	zinf15.txt, Adaptive 2 max
Phantom	Right head
Device Position	Tilt
Band	GSM1900
Channels	Middle
Signal	GSM

B. Instrumentations.

PC	HP (Pentium(R) V3.06GHz, SN:375052-AA1)	Calibrated: N/A
Network Emulator	R&S (CMU200, SN:B23-03291)	Calibrated: 06/17/2009
Voltmeter	Keithley (2000, SN:1015843)	Calibrated: 05/01/2009
Synthetizer	Agilent (E8257C, SN:MY43321570)	Calibrated: 08/07/2009
Amplifier	Mini-Circuits (ZHL-42, SN:110405)	Calibrated: 07/29/2009
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibrated: 07/29/2009
Probe	Antennessa (SN:SN_1109_EP_100)	Calibrated: 04/16/2009
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibrated: N/A
Liquid	Antennessa	Calibrated: N/A
Measurement SW:	OPEN SAR V2.1	Calibrated: N/A

C. SAR Measurement Results

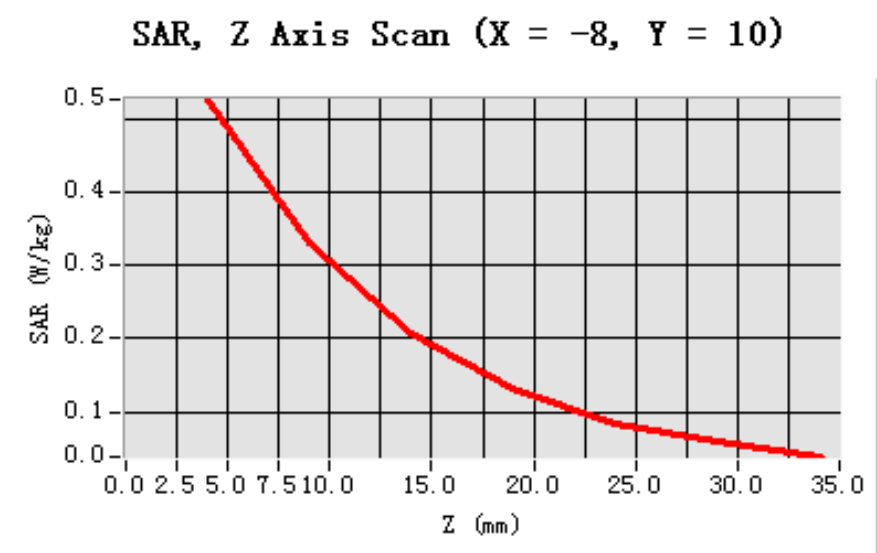
Frequency (MHz)	1880.000000
Relative permittivity (real part)	40.211201
Relative permittivity (imaginary part)	13.792000
Conductivity (S/m)	1.442010
Variation (%)	-0.450000



Maximum location: X=-8.00, Y=10.00

SAR 10g (W/Kg)	0.123067
SAR 1g (W/Kg)	0.299335

Z Axis Scan



MEASUREMENT 6

Type: Phone measurement (Complete)

Date of measurement: 04/16/2010

Measurement duration: 14 minutes 27 seconds

Mobile Phone IMEI number: --

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

Crest Factor: GSM Duty cycle: 1:8

Medium parameters used: $f=1910.0\text{MHz}$; $\sigma=40.21\text{mho/m}$; $\epsilon_r=1.44$; $\rho=1000\text{kg/m}^3$

Area Scan: 7 x 7 x 1

dx=15mm

dy=15mm

Zoom Scan: 5 x 5 x 7

dx=5mm

dy=5mm

dz=5mm

Z Axis Scan: 1 x 1 x 21

dx=20mm

dy=20mm

dz=5mm

A. Experimental conditions.

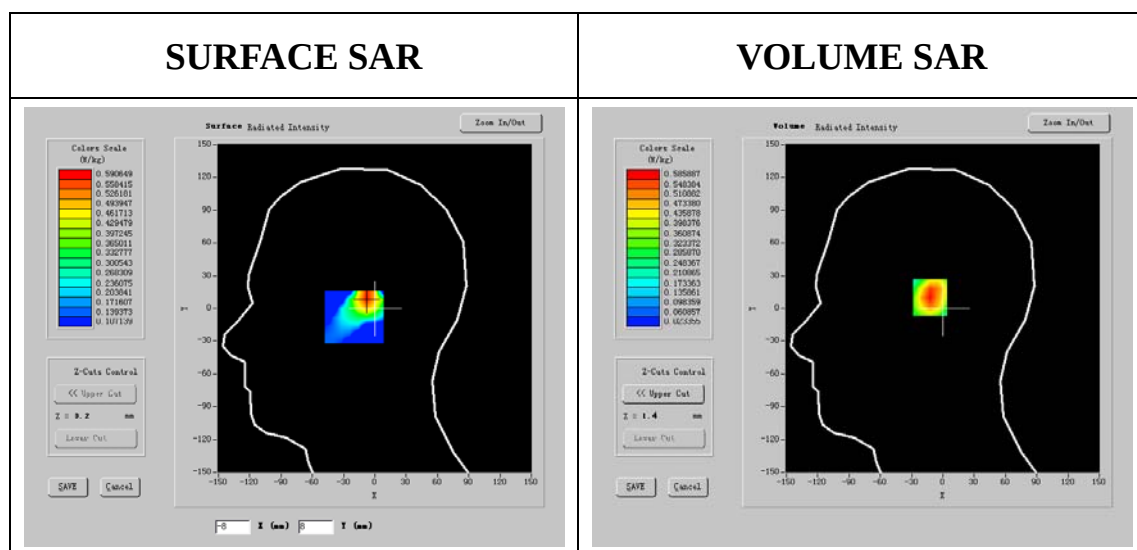
Phantom File	zinf15.txt, Adaptive 2 max
Phantom	Right head
Device Position	Tilt
Band	GSM1900
Channels	High
Signal	GSM

B. Instrumentations.

PC	HP (Pentium(R) V3.06GHz, SN:375052-AA1)	Calibrated: N/A
Network Emulator	R&S (CMU200, SN:B23-03291)	Calibrated: 06/17/2009
Voltmeter	Keithley (2000, SN:1015843)	Calibrated: 05/01/2009
Synthetizer	Agilent (E8257C, SN:MY43321570)	Calibrated: 08/07/2009
Amplifier	Mini-Circuits (ZHL-42, SN:110405)	Calibrated: 07/29/2009
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibrated: 07/29/2009
Probe	Antennessa (SN:SN_1109_EP_100)	Calibrated: 04/16/2009
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibrated: N/A
Liquid	Antennessa	Calibrated: N/A
Measurement SW	OPEN SAR V2.1	Calibrated: N/A

C. SAR Measurement Results

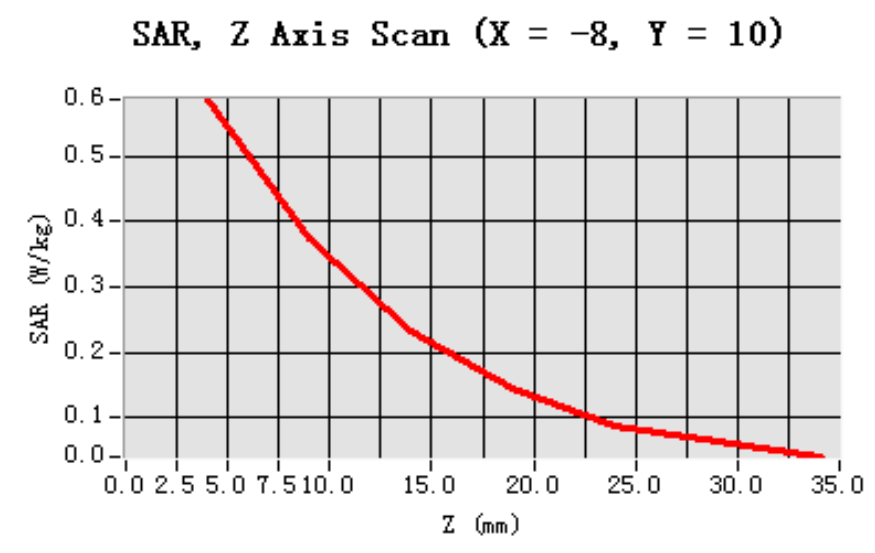
Frequency (MHz)	1910.000216
Relative permittivity (real part)	40.212019
Relative permittivity (imaginary part)	13.220900
Conductivity (S/m)	1.443020
Variation (%)	-1.500000



Maximum location: X=-8.00, Y=10.00

SAR 10g (W/Kg)	0.108446
SAR 1g (W/Kg)	0.288734

Z Axis Scan



MEASUREMENT 7

Type: Phone measurement (Complete)

Date of measurement: 04/16/2010

Measurement duration: 14 minutes 27 seconds

Mobile Phone IMEI number: --

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

Crest Factor: GSM Duty cycle: 1:8

Medium parameters used: $f=1850.2\text{MHz}$; $\sigma=40.21\text{mho/m}$; $\epsilon_r=1.44$; $\rho=1000\text{kg/m}^3$

Area Scan: 7 x 7 x 1 dx=15mm dy=15mm

Zoom Scan: 5 x 5 x 7 dx=5mm dy=5mm dz=5mm

Z Axis Scan: 1 x 1 x 21 dx=20mm dy=20mm dz=5mm

A. Experimental conditions.

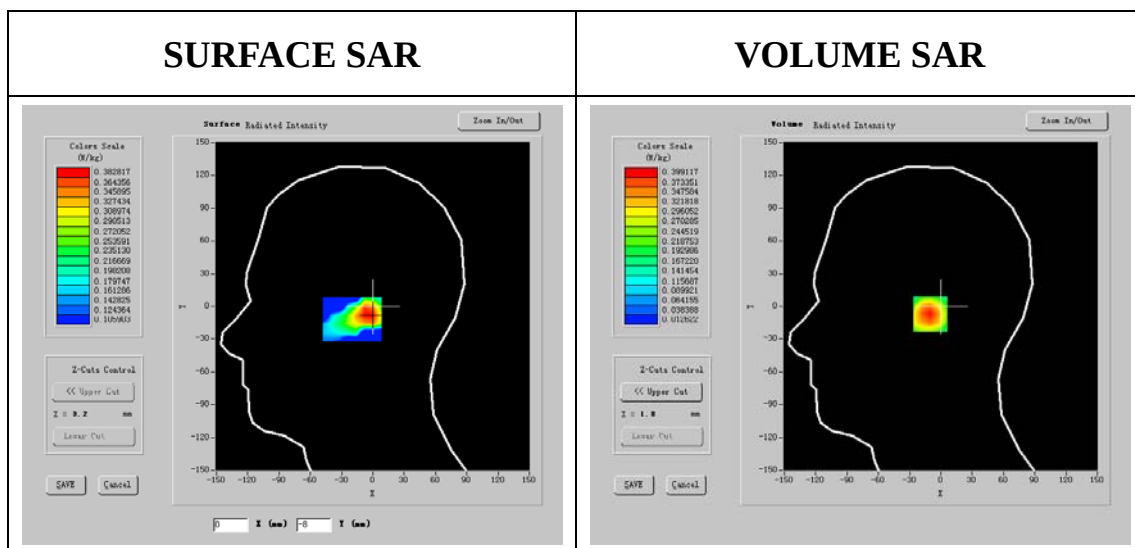
Phantom File	zinf15.txt, Adaptive 2 max
Phantom	Left head
Device Position	Cheek
Band	GSM1900
Channels	Low
Signal	GSM

B. Instrumentations.

PC	HP (Pentium(R) V3.06GHz, SN:375052-AA1)	Calibrated: N/A
Network Emulator	R&S (CMU200, SN:B23-03291)	Calibrated: 06/17/2009
Voltmeter	Keithley (2000, SN:1015843)	Calibrated: 05/01/2009
Synthetizer	Agilent (E8257C, SN:MY43321570)	Calibrated: 08/07/2009
Amplifier	Mini-Circuits (ZHL-42, SN:110405)	Calibrated: 07/29/2009
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibrated: 07/29/2009
Probe	Antennessa (SN:SN_1109_EP_100)	Calibrated: 04/16/2009
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibrated: N/A
Liquid	Antennessa	Calibrated: N/A
Measurement SW	OPEN SAR V2.1	Calibrated: N/A

C. SAR Measurement Results

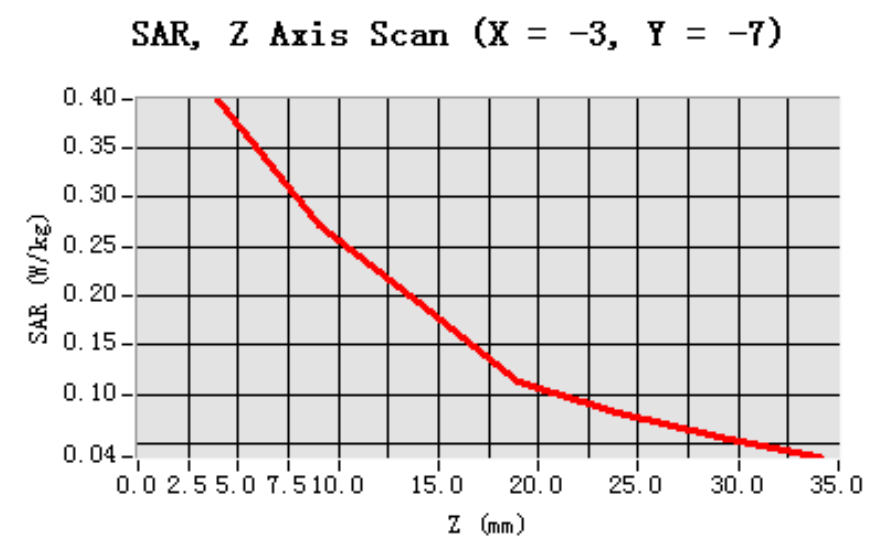
Frequency (MHz)	1850.200001
Relative permittivity (real part)	40.212000
Relative permittivity (imaginary part)	13.582000
Conductivity (S/m)	1.440120
Variation (%)	0.300000



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

SAR 10g (W/Kg)	0.524162
SAR 1g (W/Kg)	0.886001

Z Axis Scan



MEASUREMENT 8

Type: Phone measurement (Complete)

Date of measurement: 04/16/2010

Measurement duration: 14 minutes 27 seconds

Mobile Phone IMEI number: --

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

Crest Factor: GSM Duty cycle: 1:8

Medium parameters used: $f=1880.0\text{MHz}$; $\sigma=40.22\text{mho/m}$; $\epsilon_r=1.44$; $\rho=1000\text{kg/m}^3$

Area Scan: 7 x 7 x 1

dx=15mm

dy=15mm

Zoom Scan: 5 x 5 x 7

dx=5mm

dy=5mm

dz=5mm

Z Axis Scan: 1 x 1 x 21

dx=20mm

dy=20mm

dz=5mm

A. Experimental conditions.

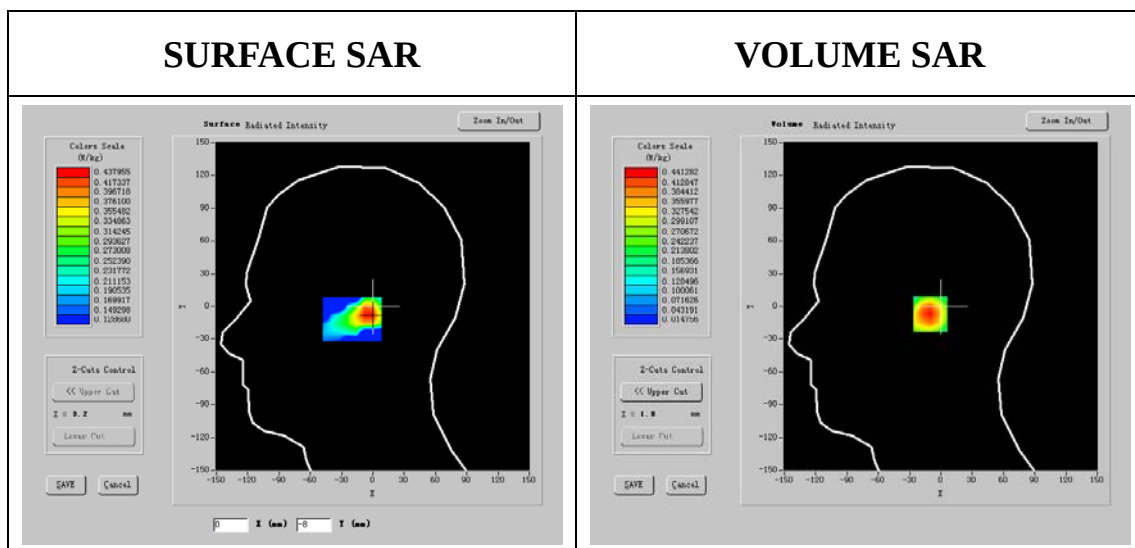
Phantom File	zinf15.txt, Adaptive 2 max
Phantom	Left head
Device Position	Cheek
Band	GSM1900
Channels	Middle
Signal	GSM

B. Instrumentations.

PC	HP (Pentium(R) V3.06GHz, SN:375052-AA1)	Calibrated: N/A
Network Emulator	R&S (CMU200, SN:B23-03291)	Calibrated: 06/17/2009
Voltmeter	Keithley (2000, SN:1015843)	Calibrated: 05/01/2009
Synthetizer	Agilent (E8257C, SN:MY43321570)	Calibrated: 08/07/2009
Amplifier	Mini-Circuits (ZHL-42, SN:110405)	Calibrated: 07/29/2009
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibrated: 07/29/2009
Probe	Antennessa (SN:SN_1109_EP_100)	Calibrated: 04/16/2009
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibrated: N/A
Liquid	Antennessa	Calibrated: N/A
Measurement SW:	OPEN SAR V2.1	Calibrated: N/A

C. SAR Measurement Results

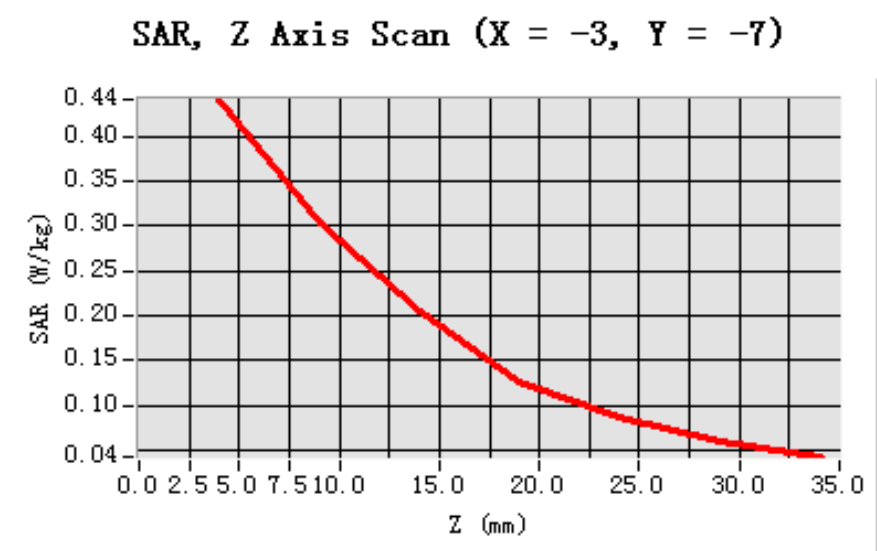
Frequency (MHz)	1880.000000
Relative permittivity (real part)	40.225402
Relative permittivity (imaginary part)	13.582000
Conductivity (S/m)	1.440102
Variation (%)	1.400000



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

SAR 10g (W/Kg)	0.588764
SAR 1g (W/Kg)	0.913447

Z Axis Scan



MEASUREMENT 9

Type: Phone measurement (Complete)

Date of measurement: 04/16/2010

Measurement duration: 14 minutes 27 seconds

Mobile Phone IMEI number: --

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

Crest Factor: GSM Duty cycle: 1:8

Medium parameters used: $f=1910.0\text{MHz}$; $\sigma=40.22\text{mho/m}$; $\epsilon_r=1.44$; $\rho=1000\text{kg/m}^3$

Area Scan: 7 x 7 x 1

dx=15mm

dy=15mm

Zoom Scan: 5 x 5 x 7

dx=5mm

dy=5mm

dz=5mm

Z Axis Scan: 1 x 1 x 21

dx=20mm

dy=20mm

dz=5mm

A. Experimental conditions.

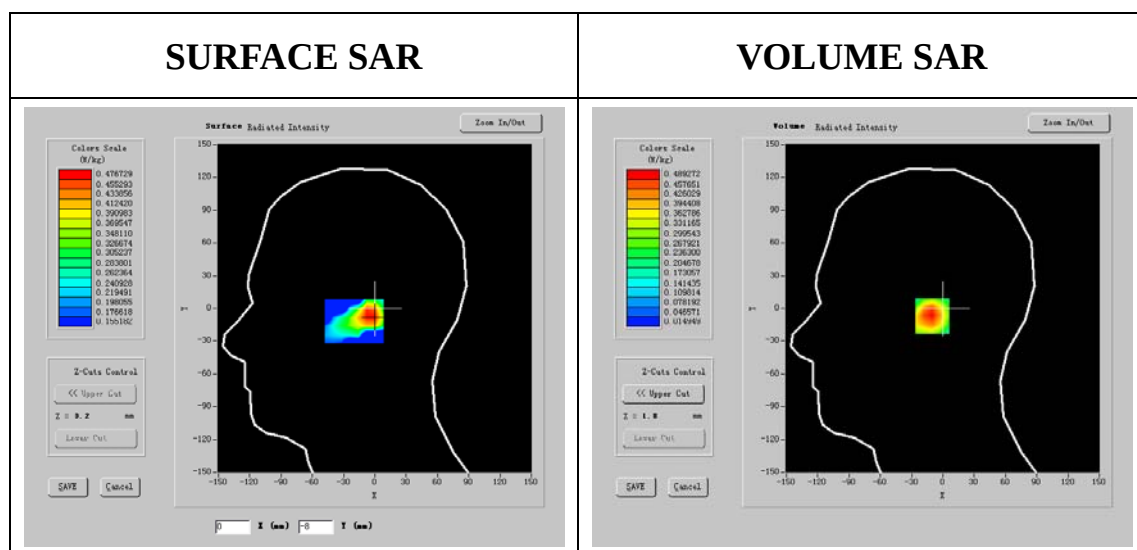
Phantom File	zinf15.txt, Adaptive 2 max
Phantom	Left head
Device Position	Cheek
Band	GSM1900
Channels	High
Signal	GSM

B. Instrumentations.

PC	HP (Pentium(R) V3.06GHz, SN:375052-AA1)	Calibrated: N/A
Network Emulator	R&S (CMU200, SN:B23-03291)	Calibrated: 06/17/2009
Voltmeter	Keithley (2000, SN:1015843)	Calibrated: 05/01/2009
Synthetizer	Agilent (E8257C, SN:MY43321570)	Calibrated: 08/07/2009
Amplifier	Mini-Circuits (ZHL-42, SN:110405)	Calibrated: 07/29/2009
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibrated: 07/29/2009
Probe	Antennessa (SN:SN_1109_EP_100)	Calibrated: 04/16/2009
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibrated: N/A
Liquid	Antennessa	Calibrated: N/A
Measurement SW:	OPEN SAR V2.1	Calibrated: N/A

C. SAR Measurement Results

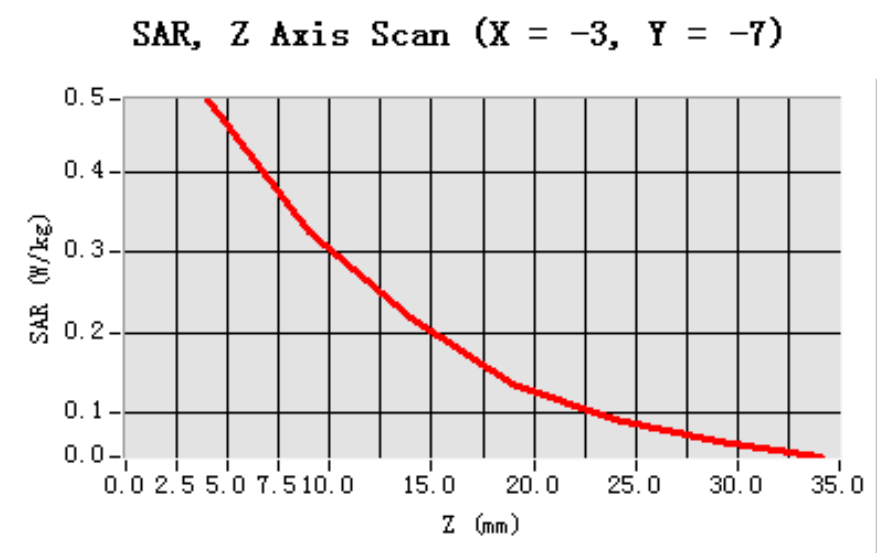
Frequency (MHz)	1910.000276
Relative permittivity (real part)	40.221030
Relative permittivity (imaginary part)	13.601000
Conductivity (S/m)	1.440320
Variation (%)	0.500000



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

SAR 10g (W/Kg)	0.550437
SAR 1g (W/Kg)	0.893670

Z Axis Scan



MEASUREMENT 10

Type: Phone measurement (Complete)

Date of measurement: 04/16/2010

Measurement duration: 14 minutes 19 seconds

Mobile Phone IMEI number: --

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

Crest Factor: GSM Duty cycle: 1:8

Medium parameters used: $f=1850.2\text{MHz}$; $\sigma=40.40\text{mho/m}$; $\epsilon_r=1.44$; $\rho=1000\text{kg/m}^3$

Area Scan: 7 x 7 x 1 dx=15mm dy=15mm

Zoom Scan: 5 x 5 x 7 dx=5mm dy=5mm dz=5mm

Z Axis Scan: 1 x 1 x 21 dx=20mm dy=20mm dz=5mm

A. Experimental conditions.

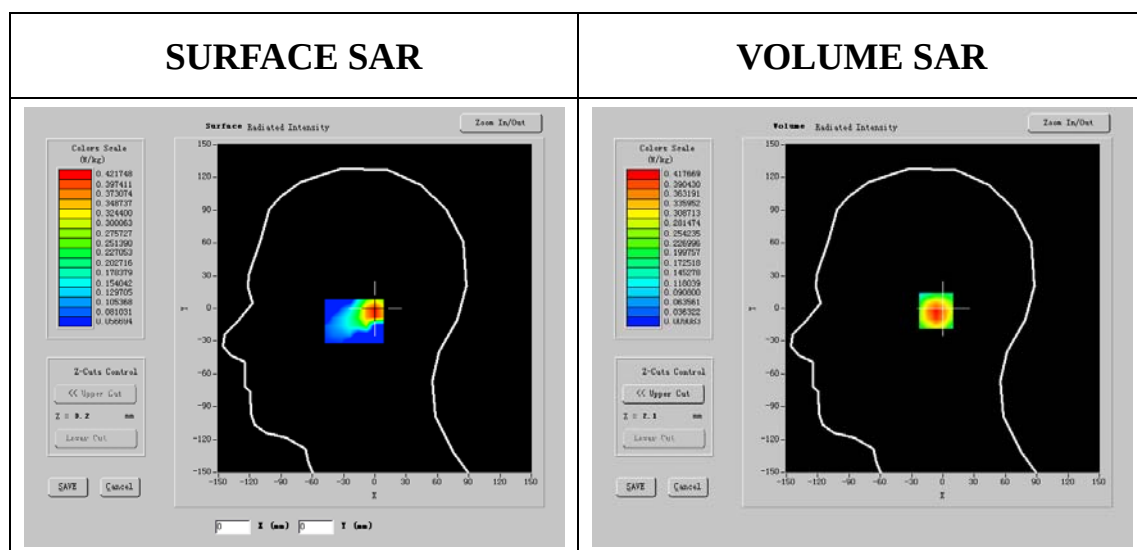
Phantom File	zinf15.txt, Adaptive 2 max
Phantom	Left head
Device Position	Tilt
Band	GSM1900
Channels	Low
Signal	GSM

B. Instrumentations.

PC	HP (Pentium(R) V3.06GHz, SN:375052-AA1)	Calibrated: N/A
Network Emulator	R&S (CMU200, SN:B23-03291)	Calibrated: 06/17/2009
Voltmeter	Keithley (2000, SN:1015843)	Calibrated: 05/01/2009
Synthetizer	Agilent (E8257C, SN:MY43321570)	Calibrated: 08/07/2009
Amplifier	Mini-Circuits (ZHL-42, SN:110405)	Calibrated: 07/29/2009
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibrated: 07/29/2009
Probe	Antennessa (SN:SN_1109_EP_100)	Calibrated: 04/16/2009
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibrated: N/A
Liquid	Antennessa	Calibrated: N/A
Measurement SW	OPEN SAR V2.1	Calibrated: N/A

C. SAR Measurement Results

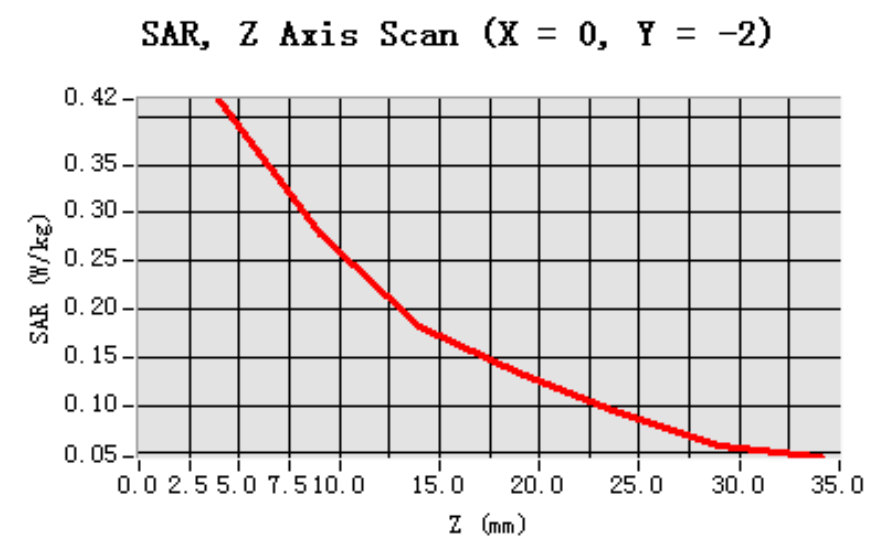
Frequency (MHz)	1850.200004
Relative permittivity (real part)	40.400200
Relative permittivity (imaginary part)	13.582100
Conductivity (S/m)	1.442010
Variation (%)	-0.600000



Maximum location: X=0.00, Y=-2.00

SAR 10g (W/Kg)	0.103671
SAR 1g (W/Kg)	0.332179

Z Axis Scan



MEASUREMENT 11

Type: Phone measurement (Complete)

Date of measurement: 04/16/2010

Measurement duration: 14 minutes 19 seconds

Mobile Phone IMEI number: --

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

Crest Factor: GSM Duty cycle: 1:8

Medium parameters used: $f=1880.0\text{MHz}$; $\sigma=40.21\text{mho/m}$; $\epsilon_r=1.44$; $\rho=1000\text{kg/m}^3$

Area Scan: 7 x 7 x 1 dx=15mm dy=15mm

Zoom Scan: 5 x 5 x 7 dx=5mm dy=5mm dz=5mm

Z Axis Scan: 1 x 1 x 21 dx=20mm dy=20mm dz=5mm

A. Experimental conditions.

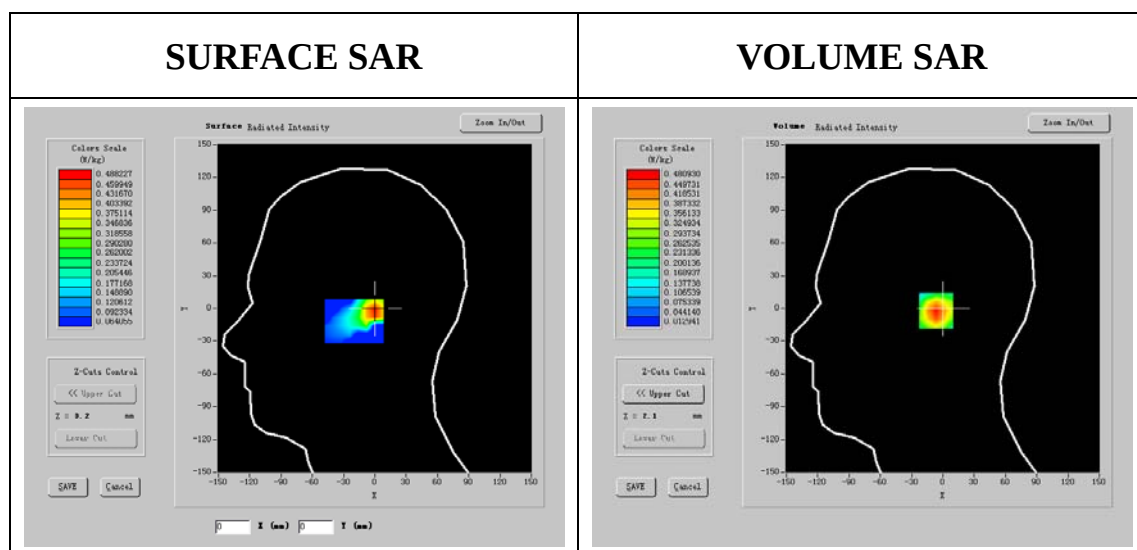
Phantom File	zinf15.txt, Adaptive 2 max
Phantom	Left head
Device Position	Tilt
Band	GSM1900
Channels	Middle
Signal	GSM

B. Instrumentations.

PC	HP (Pentium(R) V3.06GHz, SN:375052-AA1)	Calibrated: N/A
Network Emulator	R&S (CMU200, SN:B23-03291)	Calibrated: 06/17/2009
Voltmeter	Keithley (2000, SN:1015843)	Calibrated: 05/01/2009
Synthetizer	Agilent (E8257C, SN:MY43321570)	Calibrated: 08/07/2009
Amplifier	Mini-Circuits (ZHL-42, SN:110405)	Calibrated: 07/29/2009
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibrated: 07/29/2009
Probe	Antennessa (SN:SN_1109_EP_100)	Calibrated: 04/16/2009
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibrated: N/A
Liquid	Antennessa	Calibrated: N/A
Measurement SW:	OPEN SAR V2.1	Calibrated: N/A

C. SAR Measurement Results

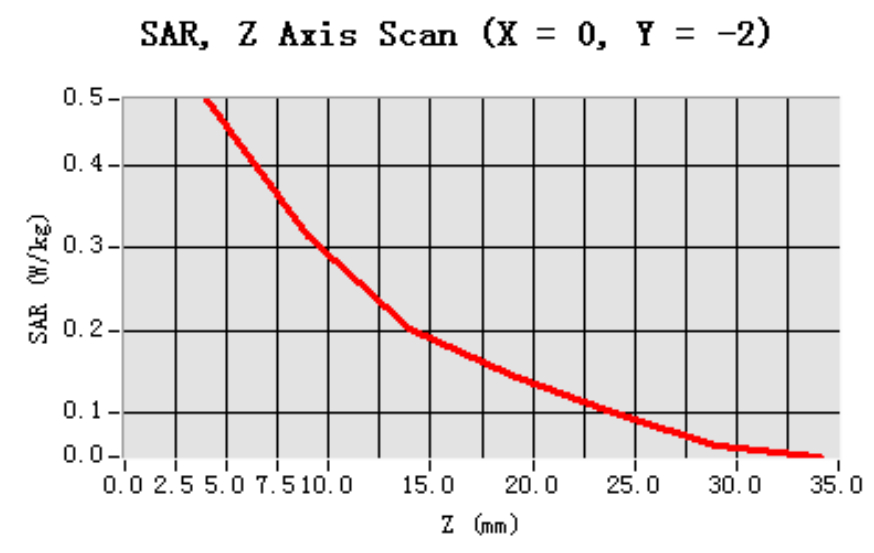
Frequency (MHz)	1880.000000
Relative permittivity (real part)	40.210201
Relative permittivity (imaginary part)	13.590100
Conductivity (S/m)	1.442010
Variation (%)	-1.200000



Maximum location: X=0.00, Y=-2.00

SAR 10g (W/Kg)	0.134805
SAR 1g (W/Kg)	0.369045

Z Axis Scan



MEASUREMENT 12

Type: Phone measurement (Complete)

Date of measurement: 04/16/2010

Measurement duration: 14 minutes 19 seconds

Mobile Phone IMEI number: --

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

Crest Factor: GSM Duty cycle: 1:8

Medium parameters used: $f=1910.0\text{MHz}$; $\sigma=40.21\text{mho/m}$; $\epsilon_r=1.44$; $\rho=1000\text{kg/m}^3$

Area Scan: 7 x 7 x 1 dx=15mm dy=15mm

Zoom Scan: 5 x 5 x 7 dx=5mm dy=5mm dz=5mm

Z Axis Scan: 1 x 1 x 21 dx=20mm dy=20mm dz=5mm

A. Experimental conditions.

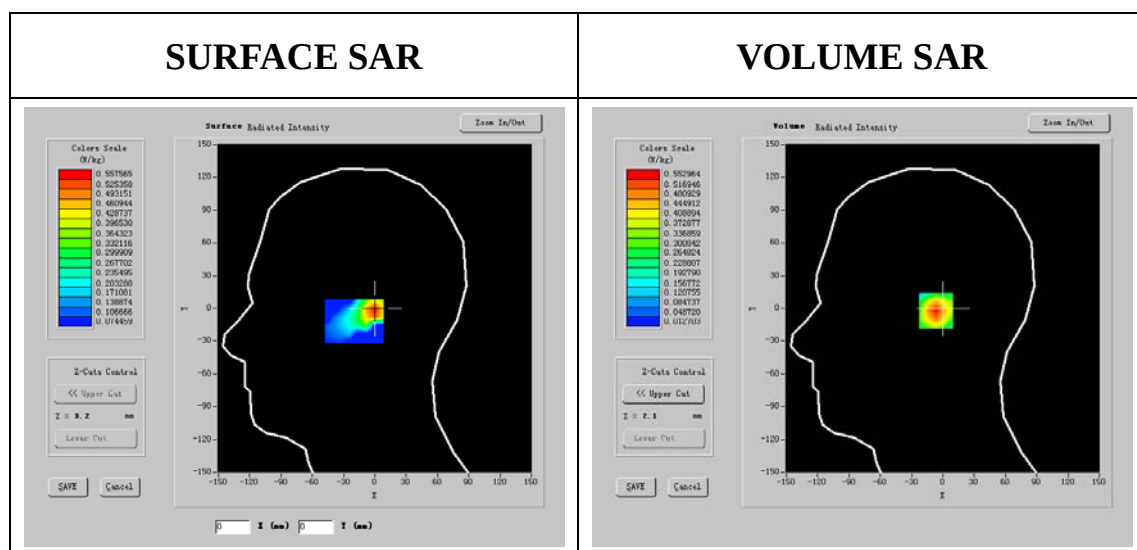
Phantom File	zinf15.txt, Adaptive 2 max
Phantom	Left head
Device Position	Tilt
Band	GSM1900
Channels	High
Signal	GSM

B. Instrumentations.

PC	HP (Pentium(R) V3.06GHz, SN:375052-AA1)	Calibrated: N/A
Network Emulator	R&S (CMU200, SN:B23-03291)	Calibrated: 06/17/2009
Voltmeter	Keithley (2000, SN:1015843)	Calibrated: 05/01/2009
Synthetizer	Agilent (E8257C, SN:MY43321570)	Calibrated: 08/07/2009
Amplifier	Mini-Circuits (ZHL-42, SN:110405)	Calibrated: 07/29/2009
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibrated: 07/29/2009
Probe	Antennessa (SN:SN_1109_EP_100)	Calibrated: 04/16/2009
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibrated: N/A
Liquid	Antennessa	Calibrated: N/A
Measurement SW:	OPEN SAR V2.1	Calibrated: N/A

C. SAR Measurement Results

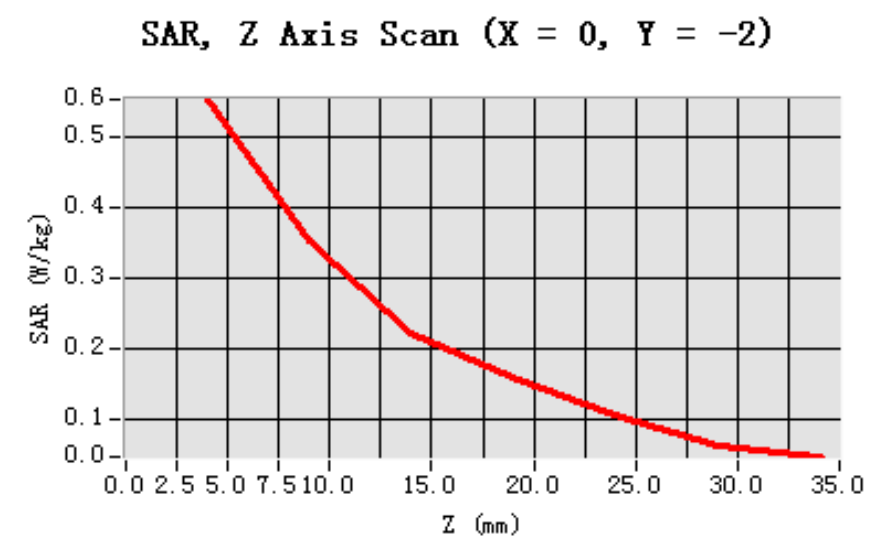
Frequency (MHz)	1910.002076
Relative permittivity (real part)	40.210203
Relative permittivity (imaginary part)	13.610100
Conductivity (S/m)	1.443205
Variation (%)	-1.140000



Maximum location: X=0.00, Y=-2.00

SAR 10g (W/Kg)	0.124356
SAR 1g (W/Kg)	0.345078

Z Axis Scan



MEASUREMENT 13

Type: Phone measurement (Complete)

Date of measurement: 04/16/2010

Measurement duration: 14 minutes 44 seconds

Mobile Phone IMEI number: --

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

Crest Factor: GSM Duty cycle: 1:8

Medium parameters used: $f=1850.2\text{MHz}$; $\sigma=53.00\text{mho/m}$; $\epsilon_r=1.50$; $\rho=1000\text{kg/m}^3$

Area Scan: 7 x 7 x 1 dx=15mm dy=15mm

Zoom Scan: 5 x 5 x 7 dx=5mm dy=5mm dz=5mm

Z Axis Scan: 1 x 1 x 21 dx=20mm dy=20mm dz=5mm

A. Experimental conditions.

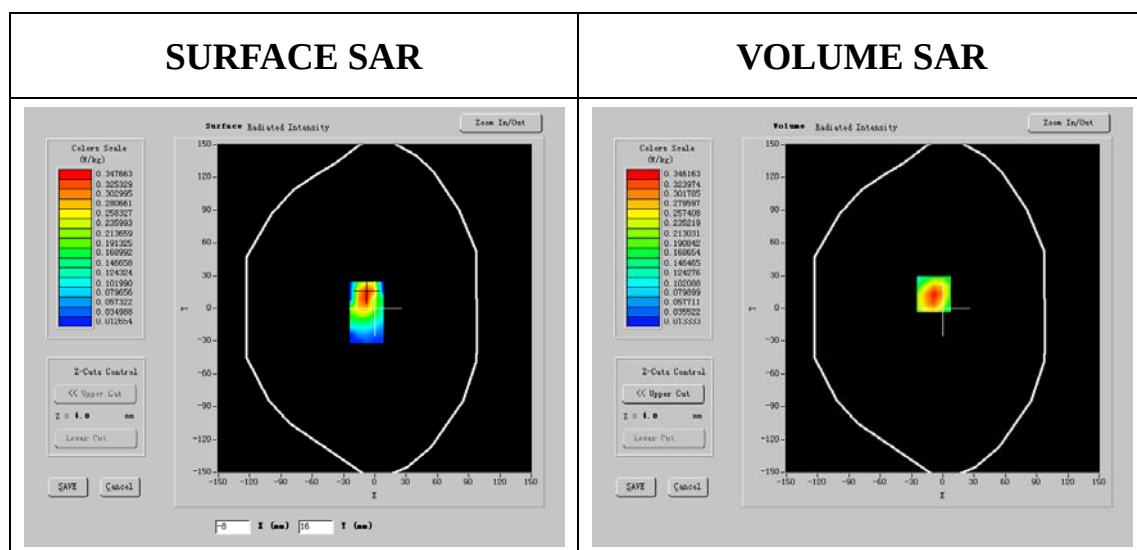
Phantom File	surf_sam_plan.txt, Adaptive 2 max
Phantom	Validation plane
Device Position	Body
Band	GSM1900
Channels	Low
Signal	GSM

B. Instrumentations.

PC	HP (Pentium(R) V3.06GHz, SN:375052-AA1)	Calibrated: N/A
Network Emulator	R&S (CMU200, SN:B23-03291)	Calibrated: 06/17/2009
Voltmeter	Keithley (2000, SN:1015843)	Calibrated: 05/01/2009
Synthetizer	Agilent (E8257C, SN:MY43321570)	Calibrated: 08/07/2009
Amplifier	Mini-Circuits (ZHL-42, SN:110405)	Calibrated: 07/29/2009
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibrated: 07/29/2009
Probe	Antennessa (SN:SN_1109_EP_100)	Calibrated: 04/16/2009
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibrated: N/A
Liquid	Antennessa	Calibrated: N/A
Measurement SW:	OPEN SAR V2.1	Calibrated: N/A

C. SAR Measurement Results

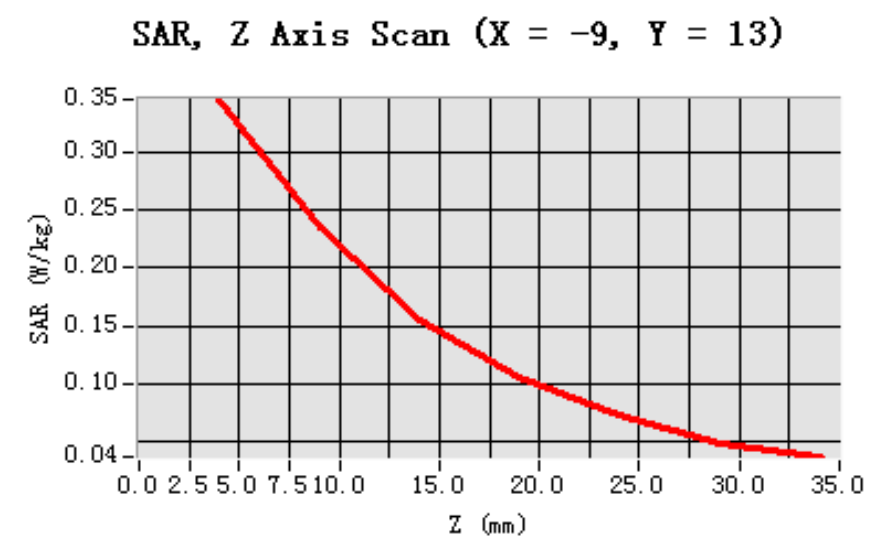
Frequency (MHz)	1850.200004
Relative permittivity (real part)	53.002000
Relative permittivity (imaginary part)	13.572000
Conductivity (S/m)	1.496001
Variation (%)	-0.130000



Maximum location: X=-9.00, Y=13.00

SAR 10g (W/Kg)	0.095674
SAR 1g (W/Kg)	0.155389

Z Axis Scan



MEASUREMENT 14

Type: Phone measurement (Complete)

Date of measurement: 04/16/2010

Measurement duration: 14 minutes 44 seconds

Mobile Phone IMEI number: --

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

Crest Factor: GSM Duty cycle: 1:8

Medium parameters used: $f=1880.0\text{MHz}$; $\sigma=52.95\text{mho/m}$; $\epsilon_r=1.50$; $\rho=1000\text{kg/m}^3$

Area Scan: 7 x 7 x 1 dx=15mm dy=15mm

Zoom Scan: 5 x 5 x 7 dx=5mm dy=5mm dz=5mm

Z Axis Scan: 1 x 1 x 21 dx=20mm dy=20mm dz=5mm

A. Experimental conditions.

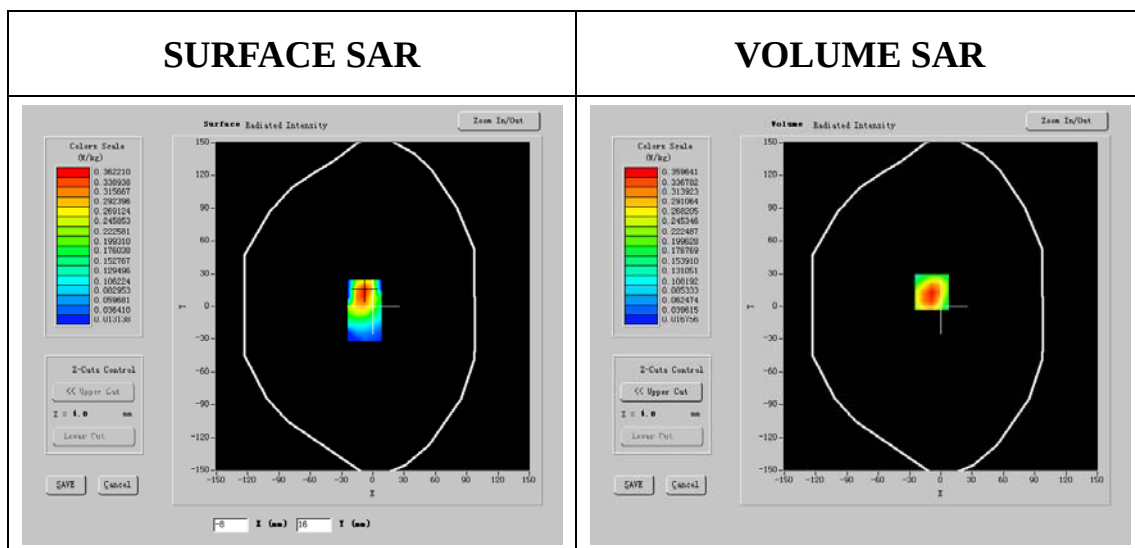
Phantom File	surf_sam_plan.txt, Adaptive 2 max
Phantom	Validation plane
Device Position	Body
Band	GSM1900
Channels	Middle
Signal	GSM

B. Instrumentations.

PC	HP (Pentium(R) V3.06GHz, SN:375052-AA1)	Calibrated: N/A
Network Emulator	R&S (CMU200, SN:B23-03291)	Calibrated: 06/17/2009
Voltmeter	Keithley (2000, SN:1015843)	Calibrated: 05/01/2009
Synthetizer	Agilent (E8257C, SN:MY43321570)	Calibrated: 08/07/2009
Amplifier	Mini-Circuits (ZHL-42, SN:110405)	Calibrated: 07/29/2009
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibrated: 07/29/2009
Probe	Antennessa (SN:SN_1109_EP_100)	Calibrated: 04/16/2009
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibrated: N/A
Liquid	Antennessa	Calibrated: N/A
Measurement SW	OPEN SAR V2.1	Calibrated: N/A

C. SAR Measurement Results

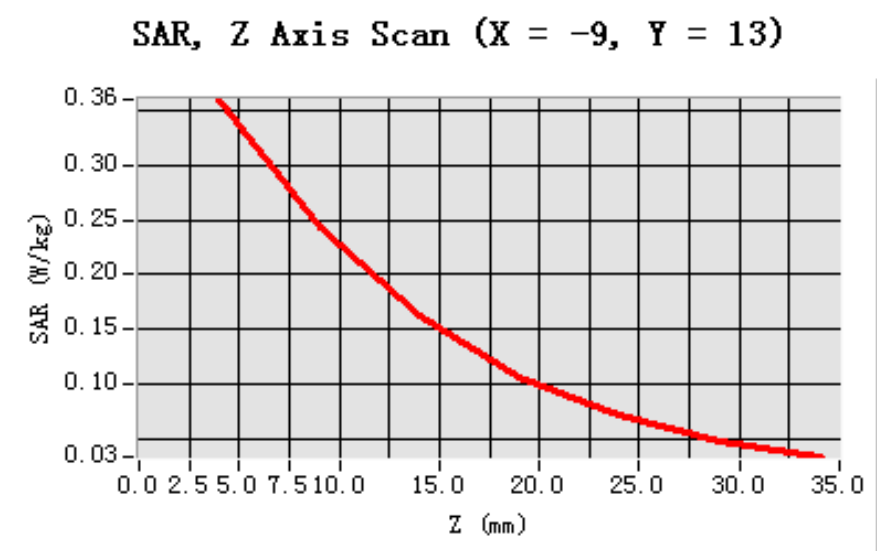
Frequency (MHz)	1880.000000
Relative permittivity (real part)	52.952001
Relative permittivity (imaginary part)	13.62100
Conductivity (S/m)	1.500210
Variation (%)	-0.600000



Maximum location: X=-9.00, Y=13.00

SAR 10g (W/Kg)	0.103667
SAR 1g (W/Kg)	0.180643

Z Axis Scan



MEASUREMENT 15

Type: Phone measurement (Complete)

Date of measurement: 04/16/2010

Measurement duration: 14 minutes 44 seconds

Mobile Phone IMEI number: --

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

Crest Factor: GSM Duty cycle: 1:8

Medium parameters used: $f=1910.0\text{MHz}$; $\sigma=52.98\text{mho/m}$; $\epsilon_r=1.50$; $\rho=1000\text{kg/m}^3$

Area Scan: 7 x 7 x 1 dx=15mm dy=15mm

Zoom Scan: 5 x 5 x 7 dx=5mm dy=5mm dz=5mm

Z Axis Scan: 1 x 1 x 21 dx=20mm dy=20mm dz=5mm

A. Experimental conditions.

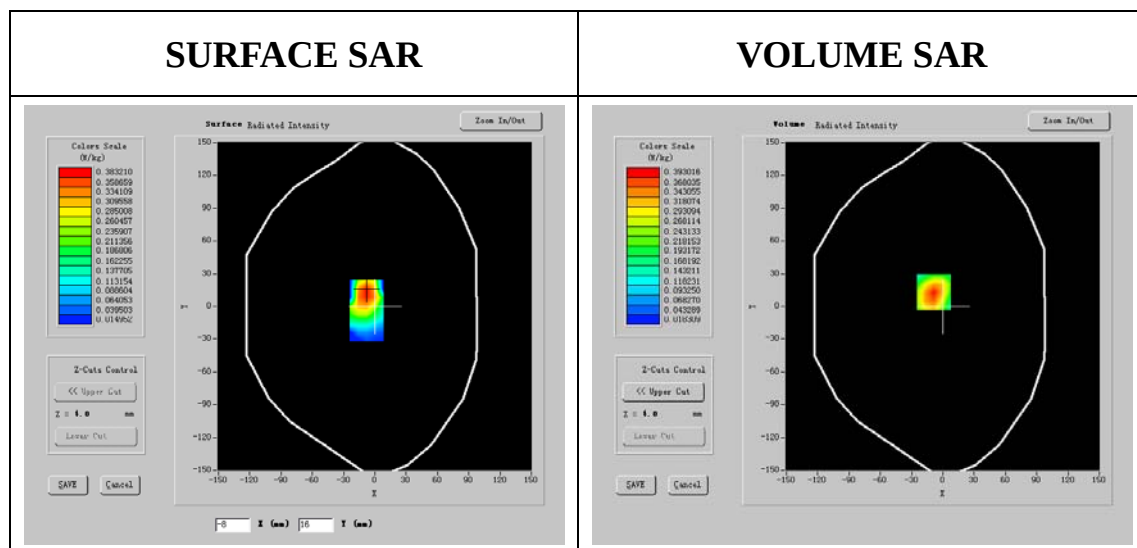
Phantom File	surf_sam_plan.txt, Adaptive 2 max
Phantom	Validation plane
Device Position	Body
Band	GSM1900
Channels	High
Signal	GSM

B. Instrumentations.

PC	HP (Pentium(R) V3.06GHz, SN:375052-AA1)	Calibrated: N/A
Network Emulator	R&S (CMU200, SN:B23-03291)	Calibrated: 06/17/2009
Voltmeter	Keithley (2000, SN:1015843)	Calibrated: 05/01/2009
Synthetizer	Agilent (E8257C, SN:MY43321570)	Calibrated: 08/07/2009
Amplifier	Mini-Circuits (ZHL-42, SN:110405)	Calibrated: 07/29/2009
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibrated: 07/29/2009
Probe	Antennessa (SN:SN_1109_EP_100)	Calibrated: 04/16/2009
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibrated: N/A
Liquid	Antennessa	Calibrated: N/A
Measurement SW	OPEN SAR V2.1	Calibrated: N/A

C. SAR Measurement Results

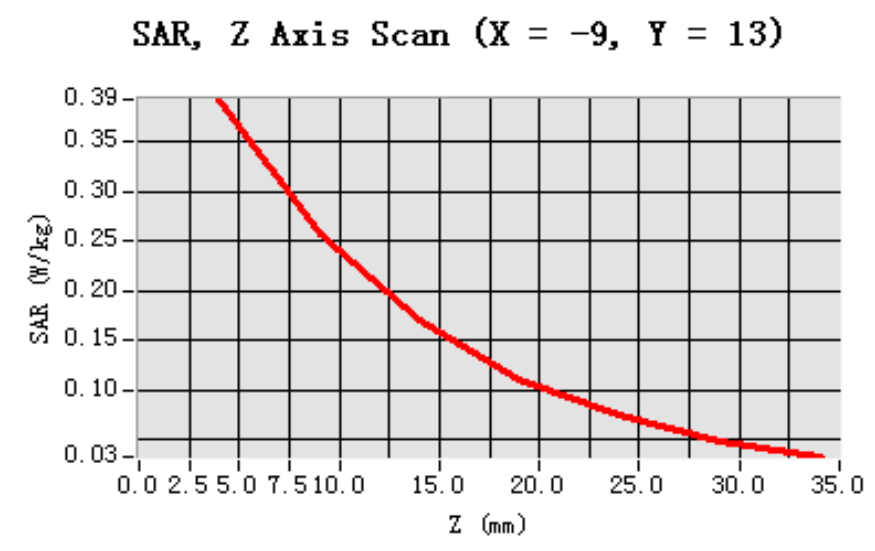
Frequency (MHz)	1909.590210
Relative permittivity (real part)	52.980210
Relative permittivity (imaginary part)	13.606200
Conductivity (S/m)	1.500125
Variation (%)	-0.400000



Maximum location: X=-9.00, Y=13.00

SAR 10g (W/Kg)	0.099347
SAR 1g (W/Kg)	0.170358

Z Axis Scan



WCDMA BAND II

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 WCDMA BAND II mode <u>Measurement 2:</u> Right Head with Cheek device position on Middle Channel in WCDMA BAND II mode <u>Measurement 3:</u> Right Head with Cheek device position on High Channel in WCDMA BAND II mode <u>Measurement 4:</u> Right Head with Tilt device position on Low Channel in WCDMA BAND II mode <u>Measurement 5:</u> Right Head with Tilt device position on Middle Channel in WCDMA BAND II mode <u>Measurement 6:</u> Right Head with Tilt device position on High Channel in WCDMA BAND II mode <u>Measurement 7:</u> Left Head with Cheek device position on Low Channel in WCDMA BAND II mode <u>Measurement 8:</u> Left Head with Cheek device position on Middle Channel in WCDMA BAND II mode <u>Measurement 9:</u> Left Head with Cheek device position on High Channel in WCDMA BAND II mode <u>Measurement 10:</u> Left Head with Tilt device position on Low Channel in WCDMA BAND II mode <u>Measurement 11:</u> Left Head with Tilt device position on Middle Channel in WCDMA BAND II mode <u>Measurement 12:</u> Left Head with Tilt device position on High Channel in WCDMA BAND II mode <u>Measurement 13:</u> Validation Plane with Body device position on Low Channel in WCDMA BAND II mode <u>Measurement 14:</u> Validation Plane with Body device position on Middle Channel in WCDMA BAND II mode <u>Measurement 15:</u> Validation Plane with Body device position on High Channel in WCDMA BAND II mode <u>Measurement 16:</u> Validation Plane with Body device position on Low Channel in HSDPA BAND II mode

		<u>Measurement 17:</u> Validation Plane with Body device position on Middle Channel in HSDPA BAND II mode <u>Measurement 18:</u> Validation Plane with Body device position on High Channel in HSDPA BAND II mode
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MEASUREMENT 1

Type: Phone measurement (Complete)

Date of measurement: 04/16/2010

Measurement duration: 15 minutes 3 seconds

Mobile Phone IMEI number: --

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

Crest Factor: WCDMA Duty cycle: 1:1

Medium parameters used: $f=1852.4\text{MHz}$; $\sigma=40.30\text{mho/m}$; $\epsilon_r=1.44$; $\rho=1000\text{kg/m}^3$

Area Scan: 7 x 7 x 1 dx=15mm dy=15mm

Zoom Scan: 5 x 5 x 7 dx=5mm dy=5mm dz=5mm

Z Axis Scan: 1 x 1 x 21 dx=20mm dy=20mm dz=5mm

A. Experimental conditions.

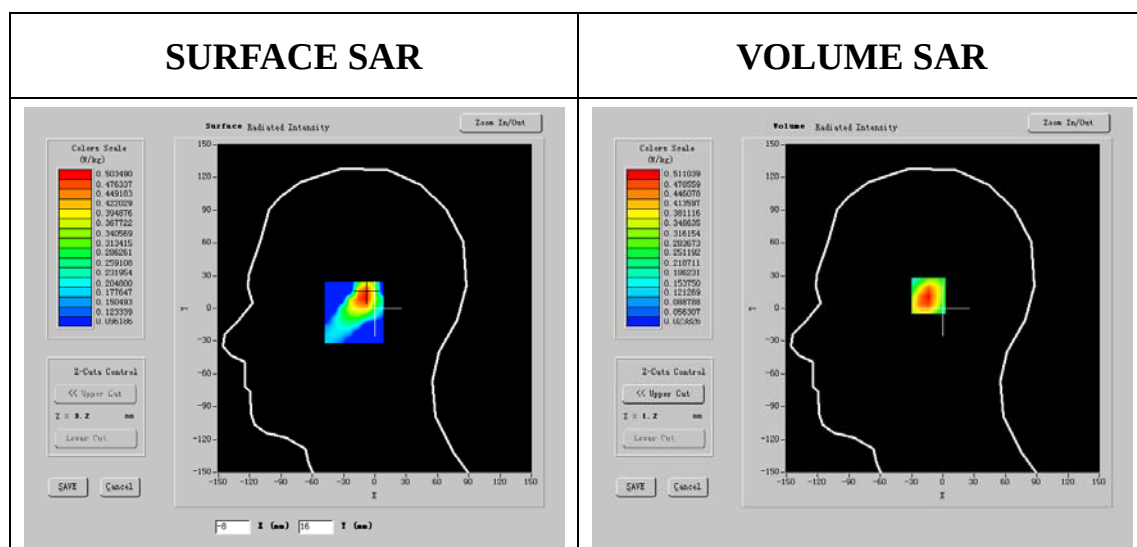
Phantom File	zinf15.txt, Adaptive 2 max
Phantom	Right head
Device Position	Cheek
Band	WCDMA BAND II
Channels	Low
Signal	WCDMA

B. Instrumentations.

PC	HP (Pentium(R) V3.06GHz, SN:375052-AA1)	Calibrated: N/A
Network Emulator	R&S (CMU200, SN:B23-03291)	Calibrated: 06/17/2009
Voltmeter	Keithley (2000, SN:1015843)	Calibrated: 05/01/2009
Synthetizer	Agilent (E8257C, SN:MY43321570)	Calibrated: 08/07/2009
Amplifier	Mini-Circuits (ZHL-42, SN:110405)	Calibrated: 07/29/2009
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibrated: 07/29/2009
Probe	Antennessa (SN:SN_1109_EP_100)	Calibrated: 04/16/2009
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibrated: N/A
Liquid	Antennessa	Calibrated: N/A
Measurement SW:	OPEN SAR V2.1	Calibrated: N/A

C. SAR Measurement Results

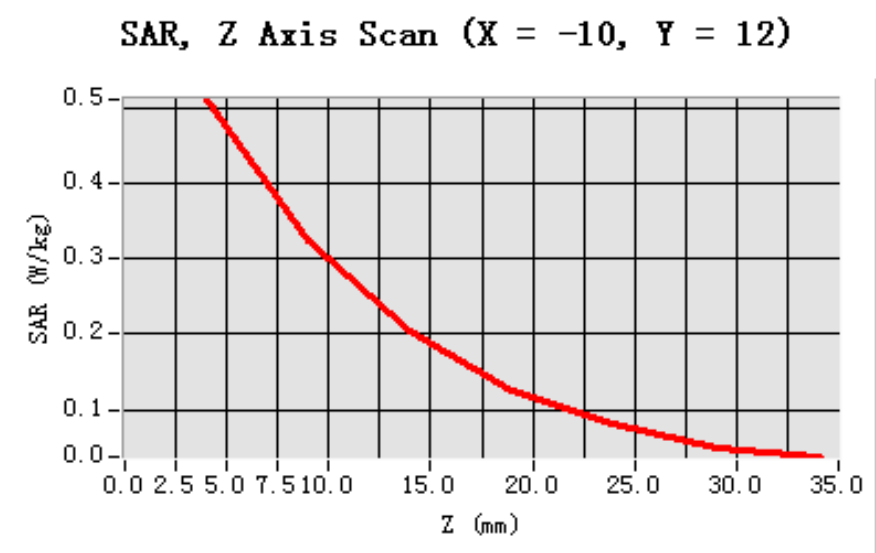
Frequency (MHz)	1852.400024
Relative permittivity (real part)	40.301044
Relative permittivity (imaginary part)	13.546011
Conductivity (S/m)	1.442061
Variation (%)	-1.200000



Maximum location: X=-10.00, Y=12.00

SAR 10g (W/Kg)	0.314061
SAR 1g (W/Kg)	0.655276

Z Axis Scan



MEASUREMENT 2

Type: Phone measurement (Complete)

Date of measurement: 04/16/2010

Measurement duration: 15 minutes 3 seconds

Mobile Phone IMEI number: --

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

Crest Factor: WCDMA Duty cycle: 1:1

Medium parameters used: $f=1880.0\text{MHz}$; $\sigma=40.21\text{mho/m}$; $\epsilon_r=1.42$; $\rho=1000\text{kg/m}^3$

Area Scan: 7 x 7 x 1

dx=15mm

dy=15mm

Zoom Scan: 5 x 5 x 7

dx=5mm

dy=5mm

dz=5mm

Z Axis Scan: 1 x 1 x 21

dx=20mm

dy=20mm

dz=5mm

A. Experimental conditions.

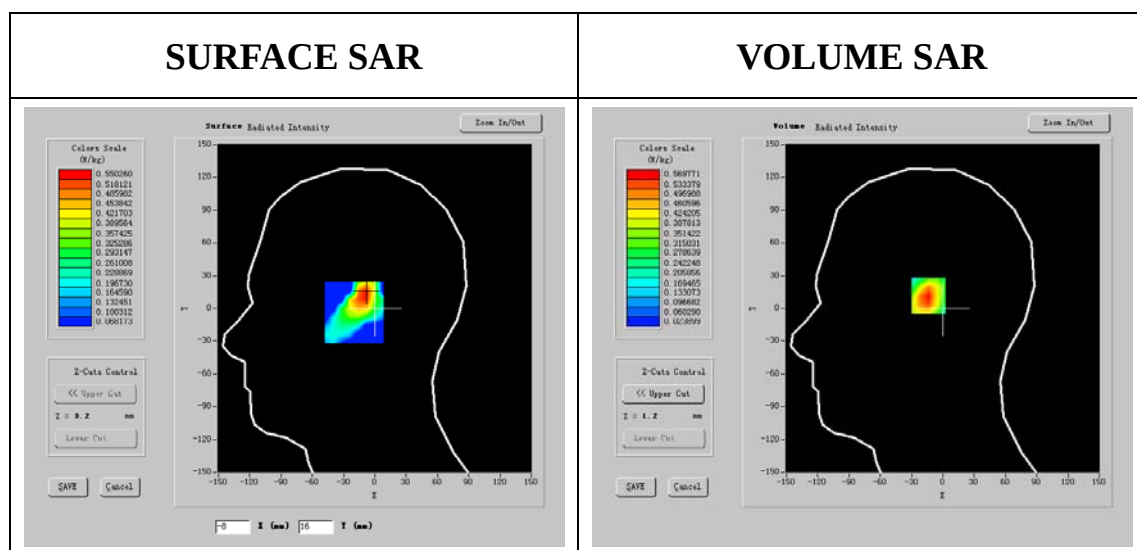
Phantom File	zinf15.txt, Adaptive 2 max
Phantom	Right head
Device Position	Cheek
Band	WCDMA BAND II
Channels	Middle
Signal	WCDMA

B. Instrumentations.

PC	HP (Pentium(R) V3.06GHz, SN:375052-AA1)	Calibrated: N/A
Network Emulator	R&S (CMU200, SN:B23-03291)	Calibrated: 06/17/2009
Voltmeter	Keithley (2000, SN:1015843)	Calibrated: 05/01/2009
Synthesizer	Agilent (E8257C, SN:MY43321570)	Calibrated: 08/07/2009
Amplifier	Mini-Circuits (ZHL-42, SN:110405)	Calibrated: 07/29/2009
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibrated: 07/29/2009
Probe	Antennessa (SN:SN_1109_EP_100)	Calibrated: 04/16/2009
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibrated: N/A
Liquid	Antennessa	Calibrated: N/A
Measurement SW:	OPEN SAR V2.1	Calibrated: N/A

C. SAR Measurement Results

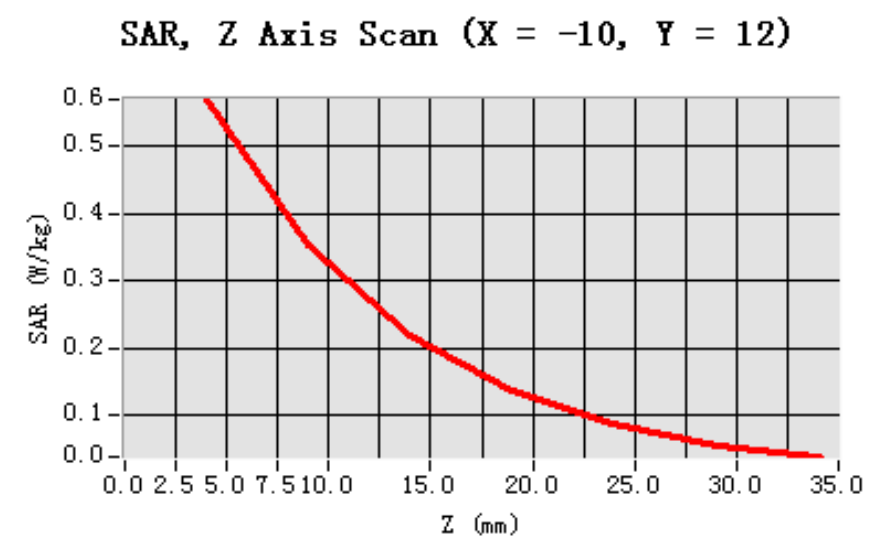
Frequency (MHz)	1880.000000
Relative permittivity (real part)	40.212312
Relative permittivity (imaginary part)	13.845205
Conductivity (S/m)	1.423189
Variation (%)	-0.300000



Maximum location: X=-10.00, Y=12.00

SAR 10g (W/Kg)	0.340177
SAR 1g (W/Kg)	0.685667

Z Axis Scan



MEASUREMENT 3

Type: Phone measurement (Complete)

Date of measurement: 04/16/2010

Measurement duration: 15 minutes 3 seconds

Mobile Phone IMEI number: --

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

Crest Factor: WCDMA Duty cycle: 1:1

Medium parameters used: $f=1907.6\text{MHz}$; $\sigma=40.21\text{mho/m}$; $\epsilon_r=1.44$; $\rho=1000\text{kg/m}^3$

Area Scan: 7 x 7 x 1

dx=15mm

dy=15mm

Zoom Scan: 5 x 5 x 7

dx=5mm

dy=5mm

dz=5mm

Z Axis Scan: 1 x 1 x 21

dx=20mm

dy=20mm

dz=5mm

A. Experimental conditions.

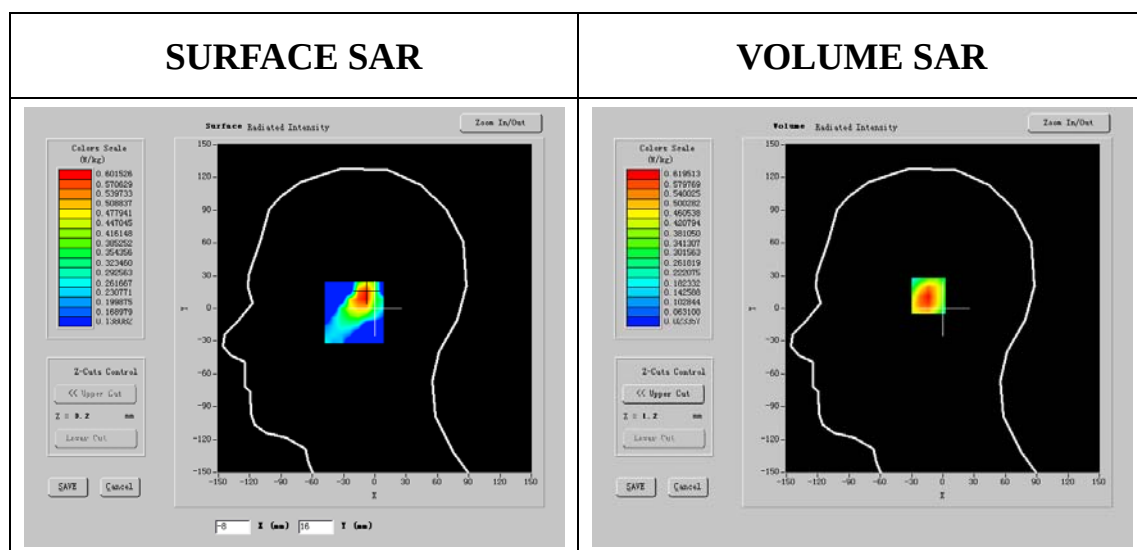
Phantom File	zinf15.txt, Adaptive 2 max
Phantom	Right head
Device Position	Cheek
Band	WCDMA BAND II
Channels	High
Signal	WCDMA

B. Instrumentations.

PC	HP (Pentium(R) V3.06GHz, SN:375052-AA1)	Calibrated: N/A
Network Emulator	R&S (CMU200, SN:B23-03291)	Calibrated: 06/17/2009
Voltmeter	Keithley (2000, SN:1015843)	Calibrated: 05/01/2009
Synthetizer	Agilent (E8257C, SN:MY43321570)	Calibrated: 08/07/2009
Amplifier	Mini-Circuits (ZHL-42, SN:110405)	Calibrated: 07/29/2009
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibrated: 07/29/2009
Probe	Antennessa (SN:SN_1109_EP_100)	Calibrated: 04/16/2009
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibrated: N/A
Liquid	Antennessa	Calibrated: N/A
Measurement SW	OPEN SAR V2.1	Calibrated: N/A

C. SAR Measurement Results

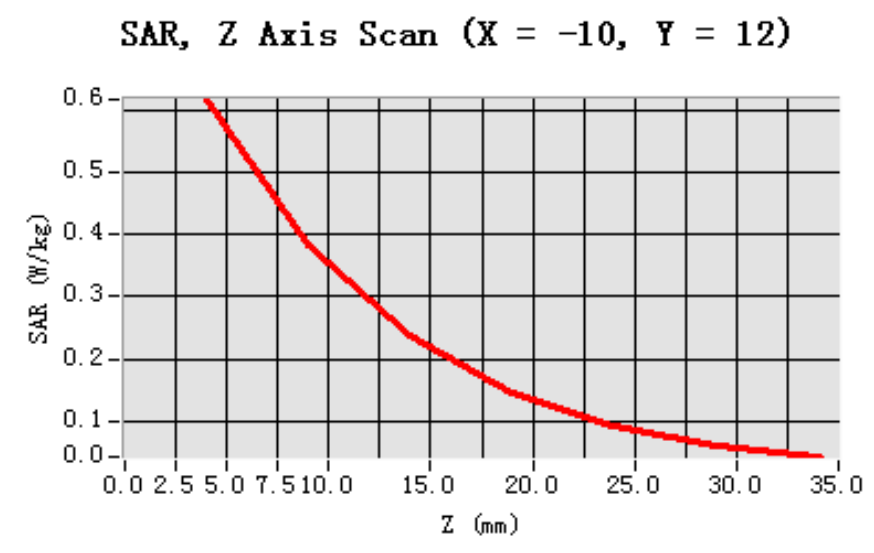
Frequency (MHz)	1907.600216
Relative permittivity (real part)	40.212223
Relative permittivity (imaginary part)	13.646200
Conductivity (S/m)	1.441084
Variation (%)	-0.300000



Maximum location: X=-10.00, Y=12.00

SAR 10g (W/Kg)	0.328455
SAR 1g (W/Kg)	0.671346

Z Axis Scan



MEASUREMENT 4

Type: Phone measurement (Complete)

Date of measurement: 04/16/2010

Measurement duration: 14 minutes 27 seconds

Mobile Phone IMEI number: --

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

Crest Factor: WCDMA Duty cycle: 1:1

Medium parameters used: $f=1852.4\text{MHz}$; $\sigma=40.22\text{mho/m}$; $\epsilon_r=1.44$; $\rho=1000\text{kg/m}^3$

Area Scan: 7 x 7 x 1

dx=15mm

dy=15mm

Zoom Scan: 5 x 5 x 7

dx=5mm

dy=5mm

dz=5mm

Z Axis Scan: 1 x 1 x 21

dx=20mm

dy=20mm

dz=5mm

A. Experimental conditions.

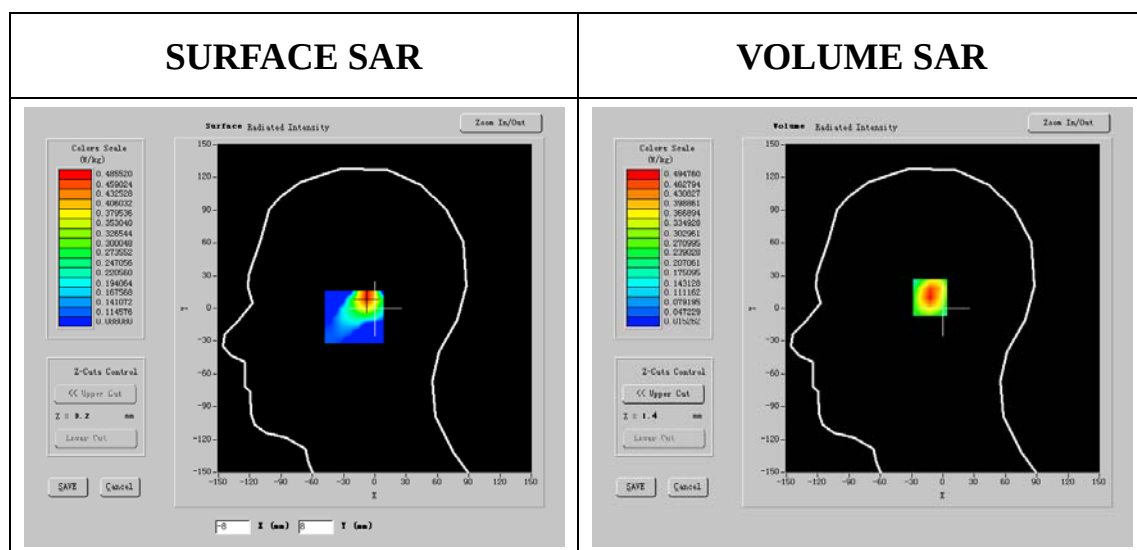
Phantom File	zinf15.txt, Adaptive 2 max
Phantom	Right head
Device Position	Tilt
Band	WCDMA BAND II
Channels	Low
Signal	WCDMA

B. Instrumentations.

PC	HP (Pentium(R) V3.06GHz, SN:375052-AA1)	Calibrated: N/A
Network Emulator	R&S (CMU200, SN:B23-03291)	Calibrated: 06/17/2009
Voltmeter	Keithley (2000, SN:1015843)	Calibrated: 05/01/2009
Synthetizer	Agilent (E8257C, SN:MY43321570)	Calibrated: 08/07/2009
Amplifier	Mini-Circuits (ZHL-42, SN:110405)	Calibrated: 07/29/2009
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibrated: 07/29/2009
Probe	Antennessa (SN:SN_1109_EP_100)	Calibrated: 04/16/2009
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibrated: N/A
Liquid	Antennessa	Calibrated: N/A
Measurement SW:	OPEN SAR V2.1	Calibrated: N/A

C. SAR Measurement Results

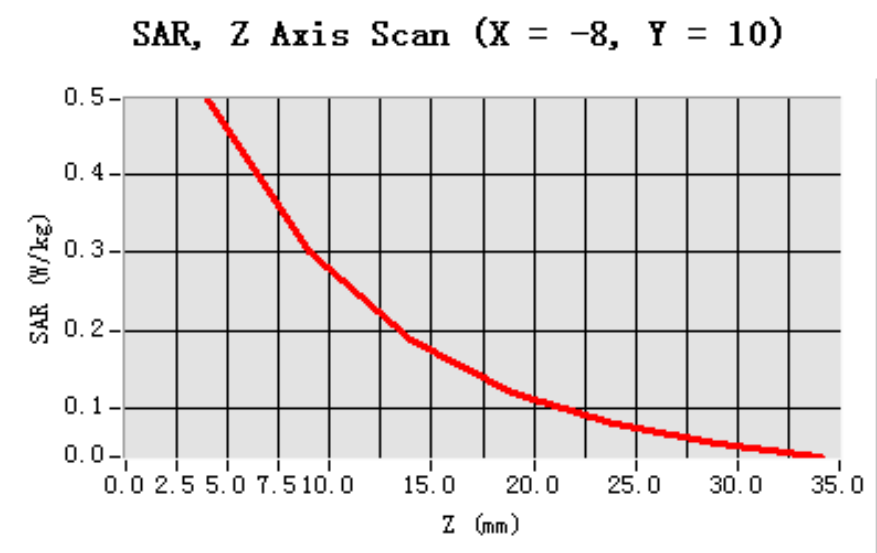
Frequency (MHz)	1852.400020
Relative permittivity (real part)	40.223128
Relative permittivity (imaginary part)	13.594106
Conductivity (S/m)	1.442113
Variation (%)	-1.400000



Maximum location: X=-8.00, Y=10.00

SAR 10g (W/Kg)	0.122317
SAR 1g (W/Kg)	0.297884

Z Axis Scan



MEASUREMENT 5

Type: Phone measurement (Complete)

Date of measurement: 04/16/2010

Measurement duration: 14 minutes 27 seconds

Mobile Phone IMEI number: --

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

Crest Factor: WCDMA Duty cycle: 1:1

Medium parameters used: $f=1880.0\text{MHz}$; $\sigma=40.21\text{mho/m}$; $\epsilon_r=1.44$; $\rho=1000\text{kg/m}^3$

Area Scan: 7 x 7 x 1

dx=15mm

dy=15mm

Zoom Scan: 5 x 5 x 7

dx=5mm

dy=5mm

dz=5mm

Z Axis Scan: 1 x 1 x 21

dx=20mm

dy=20mm

dz=5mm

A. Experimental conditions.

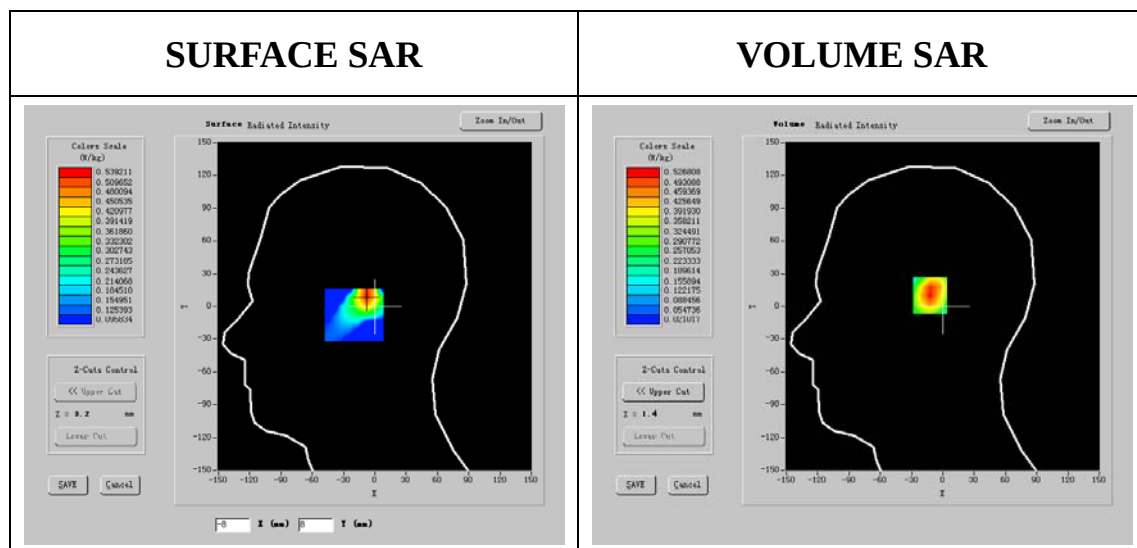
Phantom File	zinf15.txt, Adaptive 2 max
Phantom	Right head
Device Position	Tilt
Band	WCDMA BAND II
Channels	Middle
Signal	WCDMA

B. Instrumentations.

PC	HP (Pentium(R) V3.06GHz, SN:375052-AA1)	Calibrated: N/A
Network Emulator	R&S (CMU200, SN:B23-03291)	Calibrated: 06/17/2009
Voltmeter	Keithley (2000, SN:1015843)	Calibrated: 05/01/2009
Synthetizer	Agilent (E8257C, SN:MY43321570)	Calibrated: 08/07/2009
Amplifier	Mini-Circuits (ZHL-42, SN:110405)	Calibrated: 07/29/2009
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibrated: 07/29/2009
Probe	Antennessa (SN:SN_1109_EP_100)	Calibrated: 04/16/2009
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibrated: N/A
Liquid	Antennessa	Calibrated: N/A
Measurement SW:	OPEN SAR V2.1	Calibrated: N/A

C. SAR Measurement Results

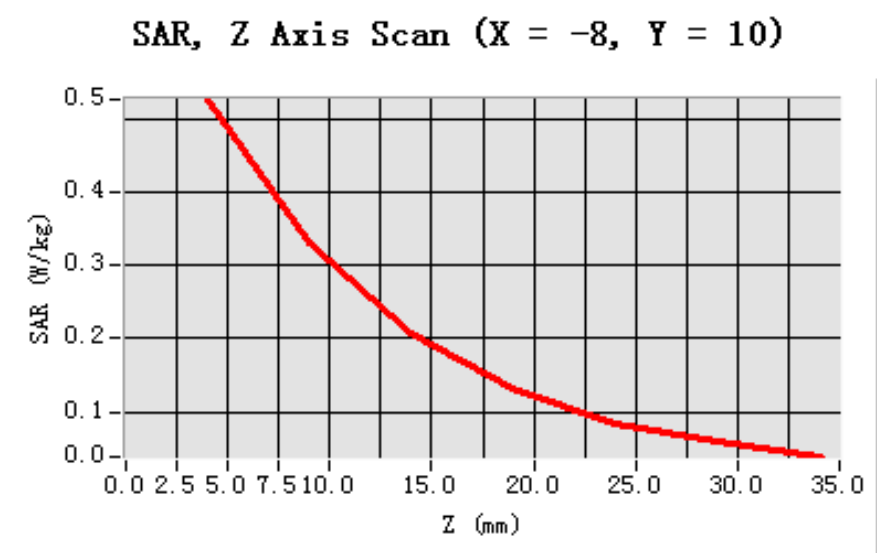
Frequency (MHz)	1880.000000
Relative permittivity (real part)	40.212351
Relative permittivity (imaginary part)	13.792158
Conductivity (S/m)	1.442023
Variation (%)	-0.450000



Maximum location: X=-8.00, Y=10.00

SAR 10g (W/Kg)	0.129026
SAR 1g (W/Kg)	0.315477

Z Axis Scan



MEASUREMENT 6

Type: Phone measurement (Complete)

Date of measurement: 04/16/2010

Measurement duration: 14 minutes 27 seconds

Mobile Phone IMEI number: --

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

Crest Factor: WCDMA Duty cycle: 1:1

Medium parameters used: $f=1907.6\text{MHz}$; $\sigma=40.21\text{mho/m}$; $\epsilon_r=1.44$; $\rho=1000\text{kg/m}^3$

Area Scan: 7 x 7 x 1

dx=15mm

dy=15mm

Zoom Scan: 5 x 5 x 7

dx=5mm

dy=5mm

dz=5mm

Z Axis Scan: 1 x 1 x 21

dx=20mm

dy=20mm

dz=5mm

A. Experimental conditions.

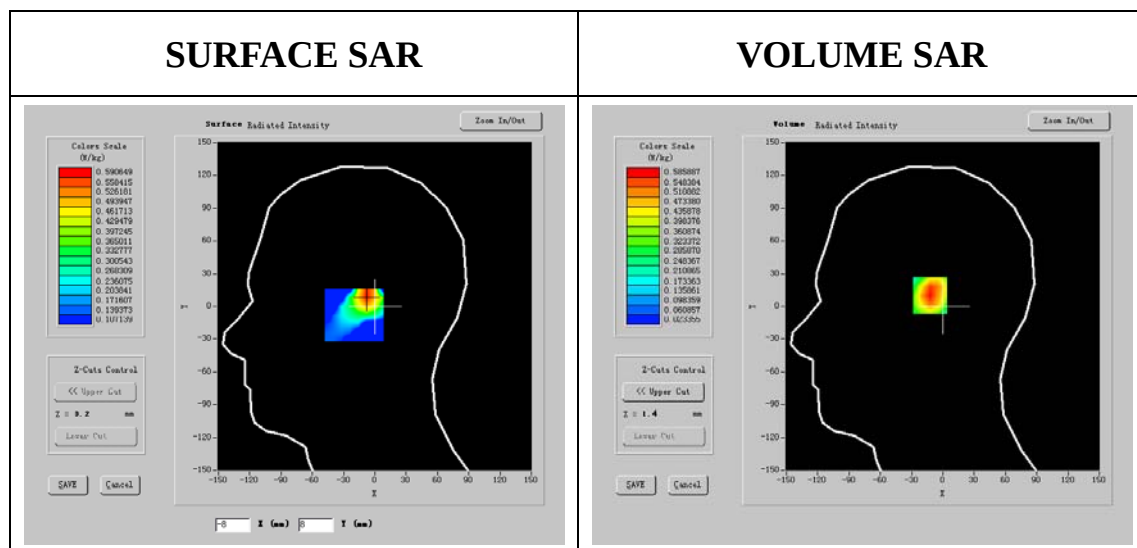
Phantom File	zinf15.txt, Adaptive 2 max
Phantom	Right head
Device Position	Tilt
Band	WCDMA BAND II
Channels	High
Signal	WCDMA

B. Instrumentations.

PC	HP (Pentium(R) V3.06GHz, SN:375052-AA1)	Calibrated: N/A
Network Emulator	R&S (CMU200, SN:B23-03291)	Calibrated: 06/17/2009
Voltmeter	Keithley (2000, SN:1015843)	Calibrated: 05/01/2009
Synthetizer	Agilent (E8257C, SN:MY43321570)	Calibrated: 08/07/2009
Amplifier	Mini-Circuits (ZHL-42, SN:110405)	Calibrated: 07/29/2009
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibrated: 07/29/2009
Probe	Antennessa (SN:SN_1109_EP_100)	Calibrated: 04/16/2009
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibrated: N/A
Liquid	Antennessa	Calibrated: N/A
Measurement SW:	OPEN SAR V2.1	Calibrated: N/A

C. SAR Measurement Results

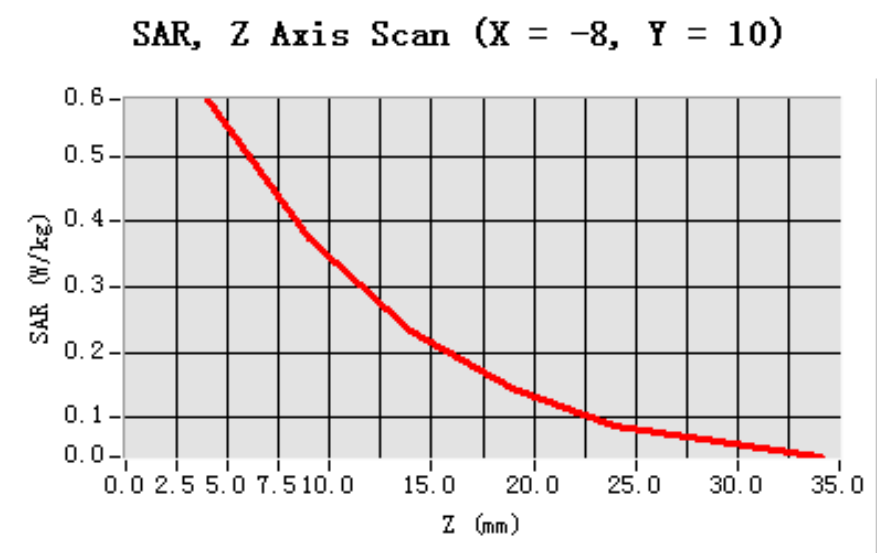
Frequency (MHz)	1907.600216
Relative permittivity (real part)	40.212115
Relative permittivity (imaginary part)	13.220903
Conductivity (S/m)	1.443118
Variation (%)	-1.500000



Maximum location: X=-8.00, Y=10.00

SAR 10g (W/Kg)	0.114674
SAR 1g (W/Kg)	0.277355

Z Axis Scan



MEASUREMENT 7

Type: Phone measurement (Complete)

Date of measurement: 04/16/2010

Measurement duration: 14 minutes 27 seconds

Mobile Phone IMEI number: --

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

Crest Factor: WCDMA Duty cycle: 1:1

Medium parameters used: $f=1852.4\text{MHz}$; $\sigma=40.21\text{mho/m}$; $\epsilon_r=1.44$; $\rho=1000\text{kg/m}^3$

Area Scan: 7 x 7 x 1

dx=15mm

dy=15mm

Zoom Scan: 5 x 5 x 7

dx=5mm

dy=5mm

dz=5mm

Z Axis Scan: 1 x 1 x 21

dx=20mm

dy=20mm

dz=5mm

A. Experimental conditions.

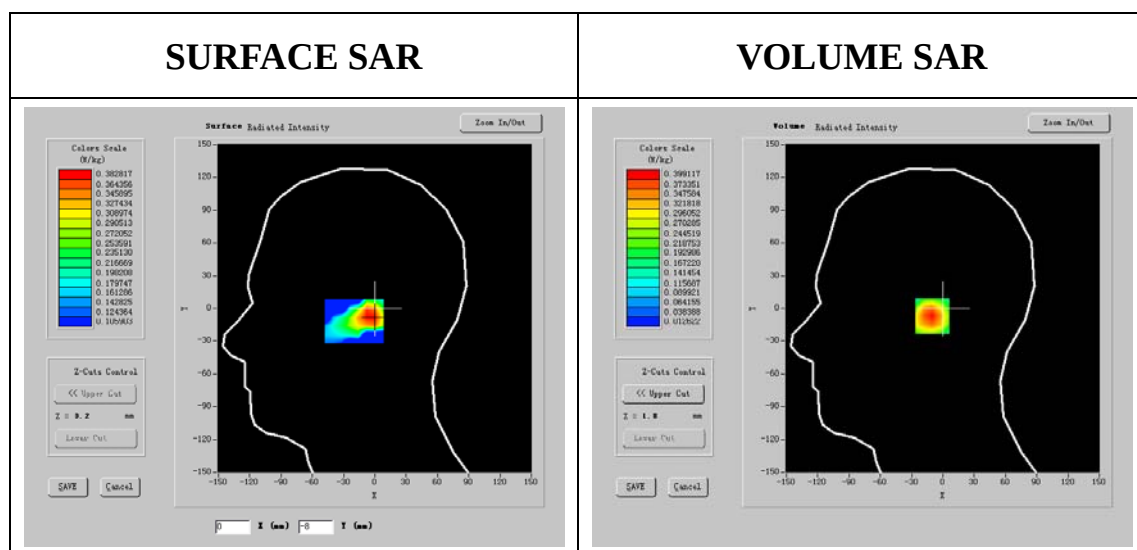
Phantom File	zinf15.txt, Adaptive 2 max
Phantom	Left head
Device Position	Cheek
Band	WCDMA BAND II
Channels	Low
Signal	WCDMA

B. Instrumentations.

PC	HP (Pentium(R) V3.06GHz, SN:375052-AA1)	Calibrated: N/A
Network Emulator	R&S (CMU200, SN:B23-03291)	Calibrated: 06/17/2009
Voltmeter	Keithley (2000, SN:1015843)	Calibrated: 05/01/2009
Synthetizer	Agilent (E8257C, SN:MY43321570)	Calibrated: 08/07/2009
Amplifier	Mini-Circuits (ZHL-42, SN:110405)	Calibrated: 07/29/2009
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibrated: 07/29/2009
Probe	Antennessa (SN:SN_1109_EP_100)	Calibrated: 04/16/2009
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibrated: N/A
Liquid	Antennessa	Calibrated: N/A
Measurement SW:	OPEN SAR V2.1	Calibrated: N/A

C. SAR Measurement Results

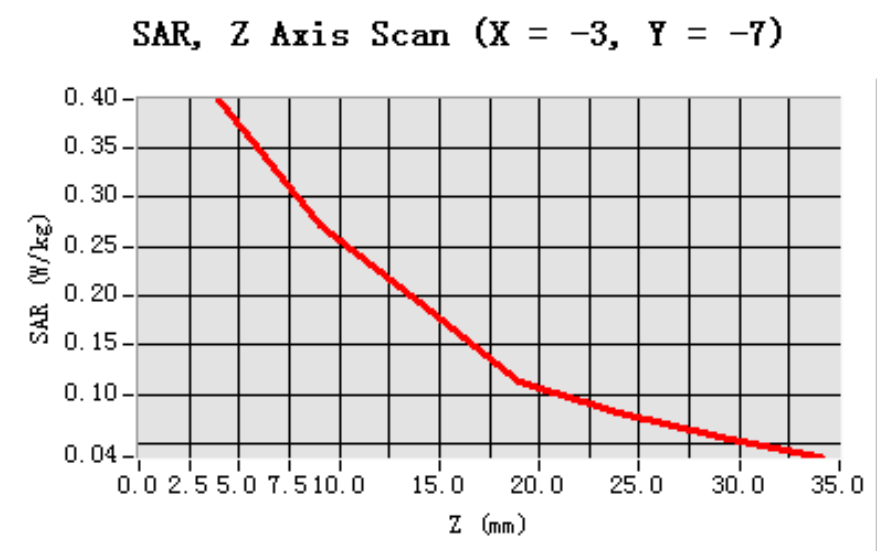
Frequency (MHz)	1852.400001
Relative permittivity (real part)	40.212058
Relative permittivity (imaginary part)	13.583000
Conductivity (S/m)	1.440144
Variation (%)	0.300000



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

SAR 10g (W/Kg)	0.518700
SAR 1g (W/Kg)	0.843667

Z Axis Scan



MEASUREMENT 8

Type: Phone measurement (Complete)

Date of measurement: 04/16/2010

Measurement duration: 14 minutes 27 seconds

Mobile Phone IMEI number: --

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

Crest Factor: WCDMA Duty cycle: 1:1

Medium parameters used: $f=1880.0\text{MHz}$; $\sigma=40.23\text{mho/m}$; $\epsilon_r=1.44$; $\rho=1000\text{kg/m}^3$

Area Scan: 7 x 7 x 1

dx=15mm

dy=15mm

Zoom Scan: 5 x 5 x 7

dx=5mm

dy=5mm

dz=5mm

Z Axis Scan: 1 x 1 x 21

dx=20mm

dy=20mm

dz=5mm

A. Experimental conditions.

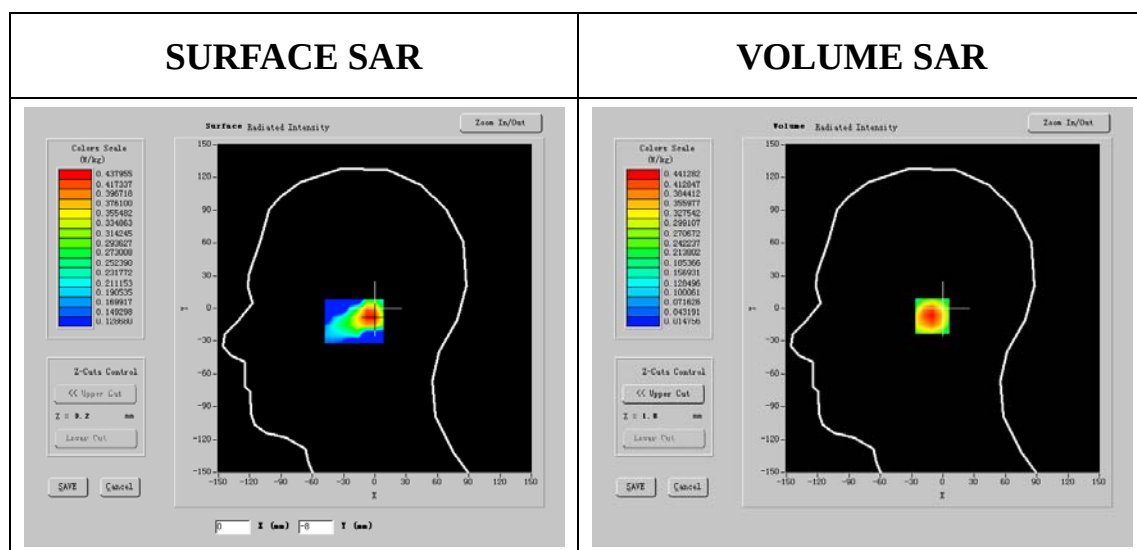
Phantom File	zinf15.txt, Adaptive 2 max
Phantom	Left head
Device Position	Cheek
Band	WCDMA BAND II
Channels	Middle
Signal	WCDMA

B. Instrumentations.

PC	HP (Pentium(R) V3.06GHz, SN:375052-AA1)	Calibrated: N/A
Network Emulator	R&S (CMU200, SN:B23-03291)	Calibrated: 06/17/2009
Voltmeter	Keithley (2000, SN:1015843)	Calibrated: 05/01/2009
Synthetizer	Agilent (E8257C, SN:MY43321570)	Calibrated: 08/07/2009
Amplifier	Mini-Circuits (ZHL-42, SN:110405)	Calibrated: 07/29/2009
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibrated: 07/29/2009
Probe	Antennessa (SN:SN_1109_EP_100)	Calibrated: 04/16/2009
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibrated: N/A
Liquid	Antennessa	Calibrated: N/A
Measurement SW:	OPEN SAR V2.1	Calibrated: N/A

C. SAR Measurement Results

Frequency (MHz)	1880.000000
Relative permittivity (real part)	40.231064
Relative permittivity (imaginary part)	13.581000
Conductivity (S/m)	1.440115
Variation (%)	1.400000

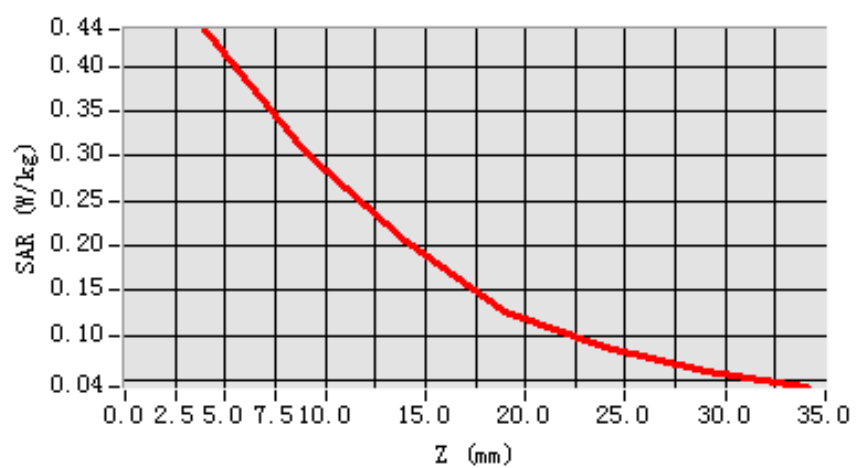


Maximum location: X=-3.00, Y=-7.00

SAR 10g (W/Kg)	0.551347
SAR 1g (W/Kg)	0.903133

Z Axis Scan

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



MEASUREMENT 9

Type: Phone measurement (Complete)

Date of measurement: 04/16/2010

Measurement duration: 14 minutes 27 seconds

Mobile Phone IMEI number: --

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

Crest Factor: WCDMA Duty cycle: 1:1

Medium parameters used: $f=1907.6\text{MHz}$; $\sigma=40.22\text{mho/m}$; $\epsilon_r=1.44$; $\rho=1000\text{kg/m}^3$

Area Scan: 7 x 7 x 1

dx=15mm

dy=15mm

Zoom Scan: 5 x 5 x 7

dx=5mm

dy=5mm

dz=5mm

Z Axis Scan: 1 x 1 x 21

dx=20mm

dy=20mm

dz=5mm

A. Experimental conditions.

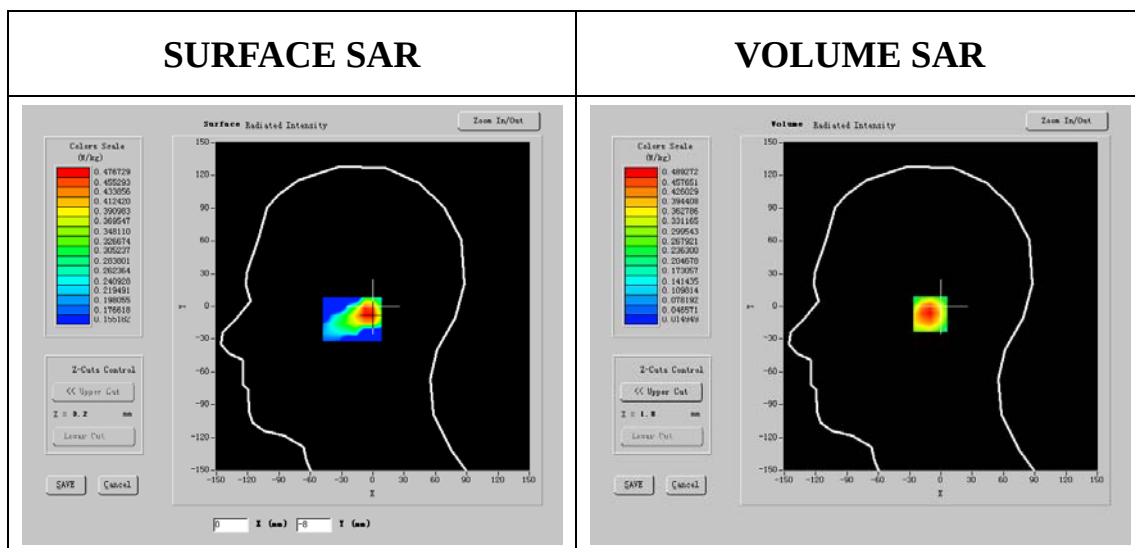
Phantom File	zinf15.txt, Adaptive 2 max
Phantom	Left head
Device Position	Cheek
Band	WCDMA BAND II
Channels	High
Signal	WCDMA

B. Instrumentations.

PC	HP (Pentium(R) V3.06GHz, SN:375052-AA1)	Calibrated: N/A
Network Emulator	R&S (CMU200, SN:B23-03291)	Calibrated: 06/17/2009
Voltmeter	Keithley (2000, SN:1015843)	Calibrated: 05/01/2009
Synthetizer	Agilent (E8257C, SN:MY43321570)	Calibrated: 08/07/2009
Amplifier	Mini-Circuits (ZHL-42, SN:110405)	Calibrated: 07/29/2009
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibrated: 07/29/2009
Probe	Antennessa (SN:SN_1109_EP_100)	Calibrated: 04/16/2009
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibrated: N/A
Liquid	Antennessa	Calibrated: N/A
Measurement SW	OPEN SAR V2.1	Calibrated: N/A

C. SAR Measurement Results

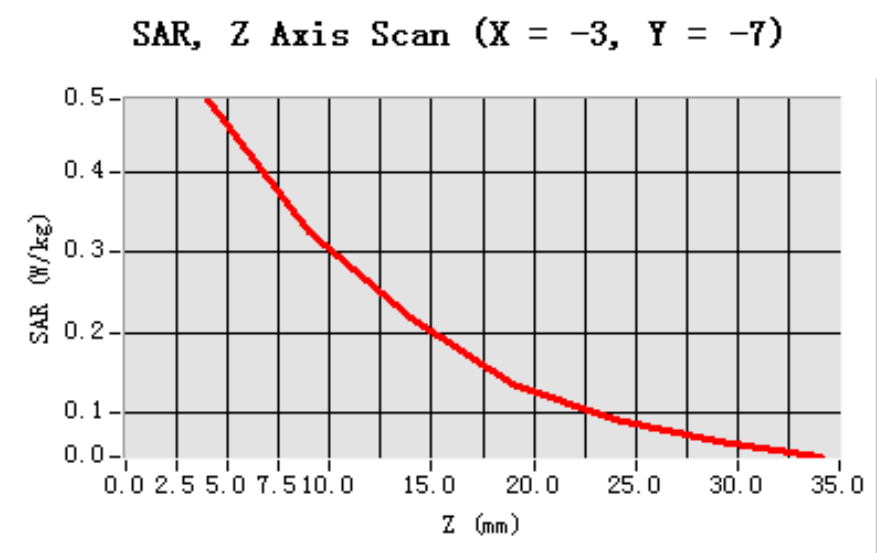
Frequency (MHz)	1907.600276
Relative permittivity (real part)	40.221110
Relative permittivity (imaginary part)	13.612004
Conductivity (S/m)	1.440150
Variation (%)	0.500000



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

SAR 10g (W/Kg)	0.523048
SAR 1g (W/Kg)	0.864112

Z Axis Scan



MEASUREMENT 10

Type: Phone measurement (Complete)

Date of measurement: 04/16/2010

Measurement duration: 14 minutes 19 seconds

Mobile Phone IMEI number: --

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

Crest Factor: WCDMA Duty cycle: 1:1

Medium parameters used: $f=1852.4\text{MHz}$; $\sigma=40.40\text{mho/m}$; $\epsilon_r=1.44$; $\rho=1000\text{kg/m}^3$

Area Scan: 7 x 7 x 1 dx=15mm dy=15mm

Zoom Scan: 5 x 5 x 7 dx=5mm dy=5mm dz=5mm

Z Axis Scan: 1 x 1 x 21 dx=20mm dy=20mm dz=5mm

A. Experimental conditions.

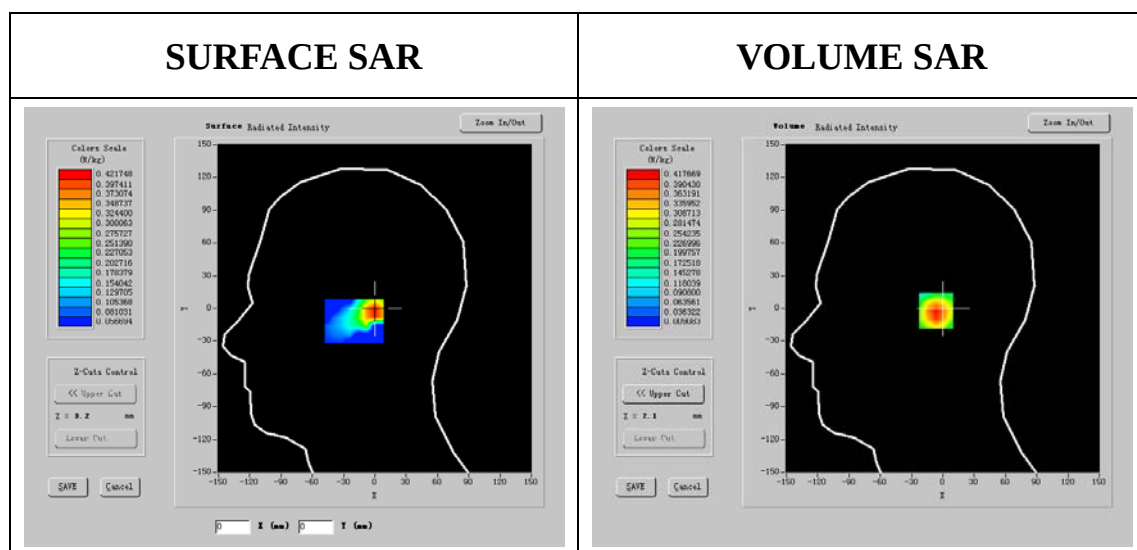
Phantom File	zinf15.txt, Adaptive 2 max
Phantom	Left head
Device Position	Tilt
Band	WCDMA BAND II
Channels	Low
Signal	WCDMA

B. Instrumentations.

PC	HP (Pentium(R) V3.06GHz, SN:375052-AA1)	Calibrated: N/A
Network Emulator	R&S (CMU200, SN:B23-03291)	Calibrated: 06/17/2009
Voltmeter	Keithley (2000, SN:1015843)	Calibrated: 05/01/2009
Synthesizer	Agilent (E8257C, SN:MY43321570)	Calibrated: 08/07/2009
Amplifier	Mini-Circuits (ZHL-42, SN:110405)	Calibrated: 07/29/2009
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibrated: 07/29/2009
Probe	Antennessa (SN:SN_1109_EP_100)	Calibrated: 04/16/2009
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibrated: N/A
Liquid	Antennessa	Calibrated: N/A
Measurement SW	OPEN SAR V2.1	Calibrated: N/A

C. SAR Measurement Results

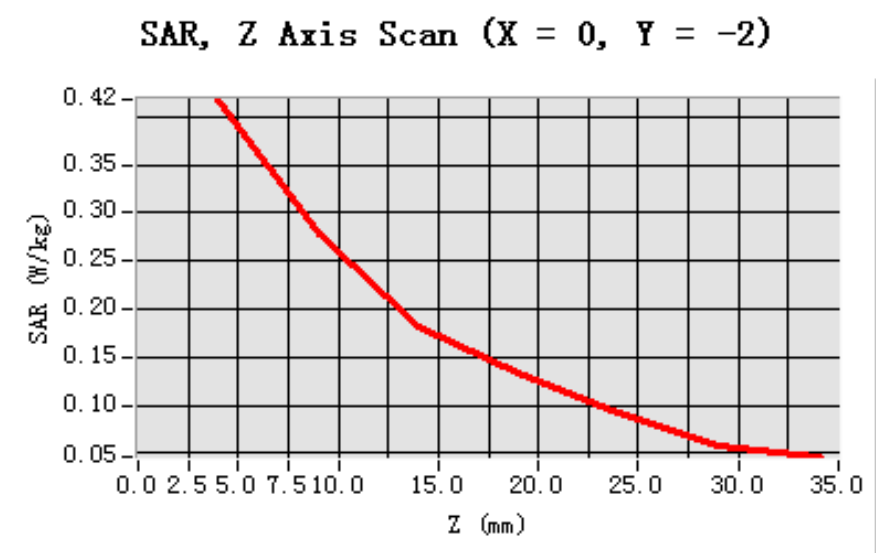
Frequency (MHz)	1852.400004
Relative permittivity (real part)	40.400118
Relative permittivity (imaginary part)	13.581774
Conductivity (S/m)	1.442123
Variation (%)	-0.600000



Maximum location: X=0.00, Y=-2.00

SAR 10g (W/Kg)	0.112347
SAR 1g (W/Kg)	0.332891

Z Axis Scan



MEASUREMENT 11

Type: Phone measurement (Complete)

Date of measurement: 04/16/2010

Measurement duration: 14 minutes 19 seconds

Mobile Phone IMEI number: --

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

Crest Factor: WCDMA Duty cycle: 1:1

Medium parameters used: $f=1880.0\text{MHz}$; $\sigma=40.21\text{mho/m}$; $\epsilon_r=1.44$; $\rho=1000\text{kg/m}^3$

Area Scan: 7 x 7 x 1 dx=15mm dy=15mm

Zoom Scan: 5 x 5 x 7 dx=5mm dy=5mm dz=5mm

Z Axis Scan: 1 x 1 x 21 dx=20mm dy=20mm dz=5mm

A. Experimental conditions.

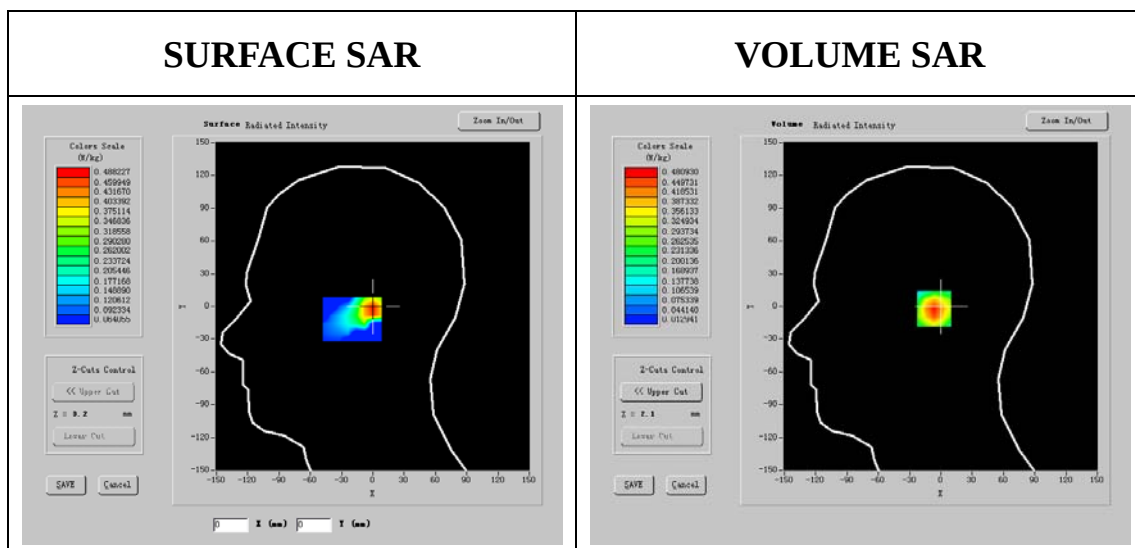
Phantom File	zinf15.txt, Adaptive 2 max
Phantom	Left head
Device Position	Tilt
Band	WCDMA BAND II
Channels	Middle
Signal	WCDMA

B. Instrumentations.

PC	HP (Pentium(R) V3.06GHz, SN:375052-AA1)	Calibrated: N/A
Network Emulator	R&S (CMU200, SN:B23-03291)	Calibrated: 06/17/2009
Voltmeter	Keithley (2000, SN:1015843)	Calibrated: 05/01/2009
Synthetizer	Agilent (E8257C, SN:MY43321570)	Calibrated: 08/07/2009
Amplifier	Mini-Circuits (ZHL-42, SN:110405)	Calibrated: 07/29/2009
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibrated: 07/29/2009
Probe	Antennessa (SN:SN_1109_EP_100)	Calibrated: 04/16/2009
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibrated: N/A
Liquid	Antennessa	Calibrated: N/A
Measurement SW	OPEN SAR V2.1	Calibrated: N/A

C. SAR Measurement Results

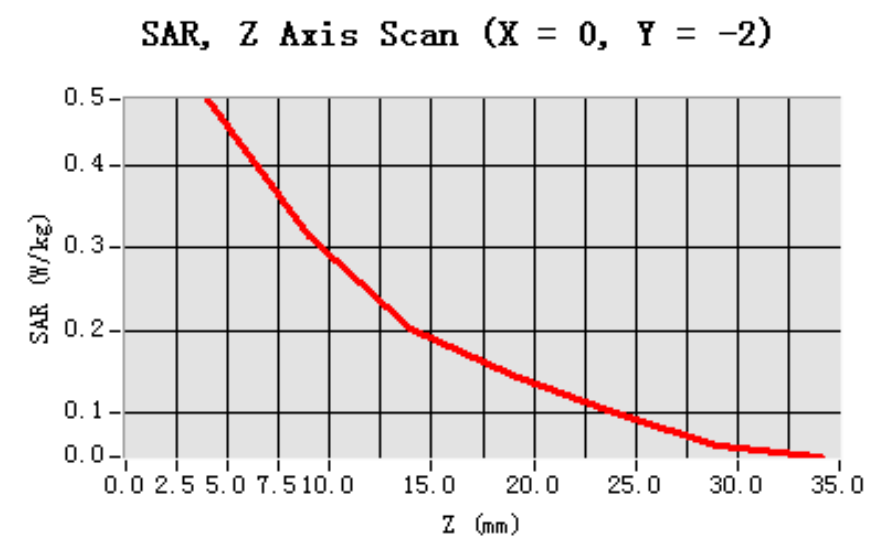
Frequency (MHz)	1880.000000
Relative permittivity (real part)	40.210326
Relative permittivity (imaginary part)	13.590112
Conductivity (S/m)	1.440588
Variation (%)	-1.200000



Maximum location: X=0.00, Y=-2.00

SAR 10g (W/Kg)	0.133052
SAR 1g (W/Kg)	0.371444

Z Axis Scan



MEASUREMENT 12

Type: Phone measurement (Complete)

Date of measurement: 04/16/2010

Measurement duration: 14 minutes 19 seconds

Mobile Phone IMEI number: --

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

Crest Factor: WCDMA Duty cycle: 1:1

Medium parameters used: $f=1907.6\text{MHz}$; $\sigma=40.21\text{mho/m}$; $\epsilon_r=1.44$; $\rho=1000\text{kg/m}^3$

Area Scan: 7 x 7 x 1 dx=15mm dy=15mm

Zoom Scan: 5 x 5 x 7 dx=5mm dy=5mm dz=5mm

Z Axis Scan: 1 x 1 x 21 dx=20mm dy=20mm dz=5mm

A. Experimental conditions.

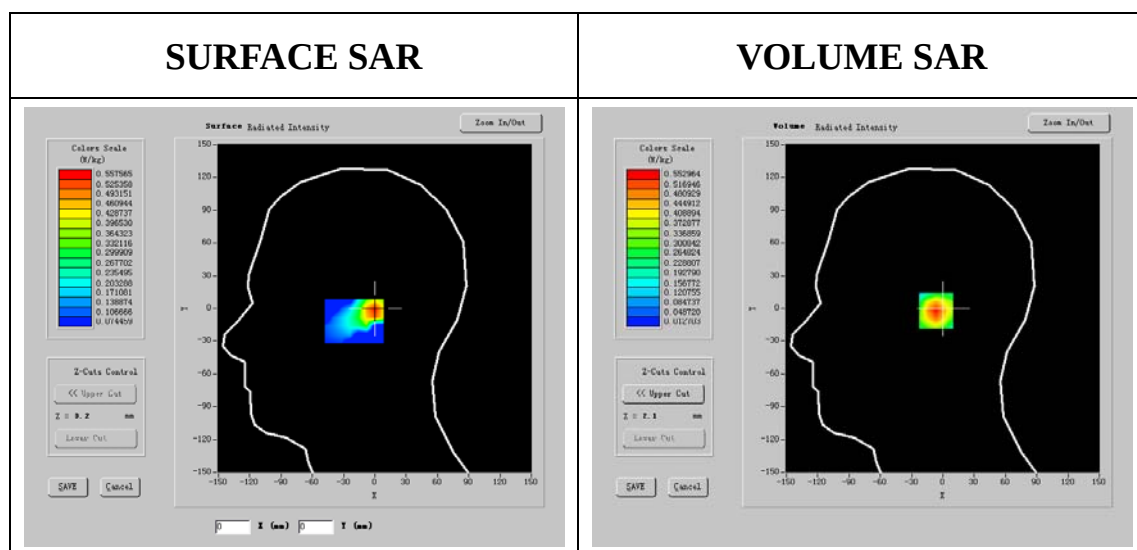
Phantom File	zinf15.txt, Adaptive 2 max
Phantom	Left head
Device Position	Tilt
Band	WCDMA BAND II
Channels	High
Signal	WCDMA

B. Instrumentations.

PC	HP (Pentium(R) V3.06GHz, SN:375052-AA1)	Calibrated: N/A
Network Emulator	R&S (CMU200, SN:B23-03291)	Calibrated: 06/17/2009
Voltmeter	Keithley (2000, SN:1015843)	Calibrated: 05/01/2009
Synthesizer	Agilent (E8257C, SN:MY43321570)	Calibrated: 08/07/2009
Amplifier	Mini-Circuits (ZHL-42, SN:110405)	Calibrated: 07/29/2009
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibrated: 07/29/2009
Probe	Antennessa (SN:SN_1109_EP_100)	Calibrated: 04/16/2009
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibrated: N/A
Liquid	Antennessa	Calibrated: N/A
Measurement SW	OPEN SAR V2.1	Calibrated: N/A

C. SAR Measurement Results

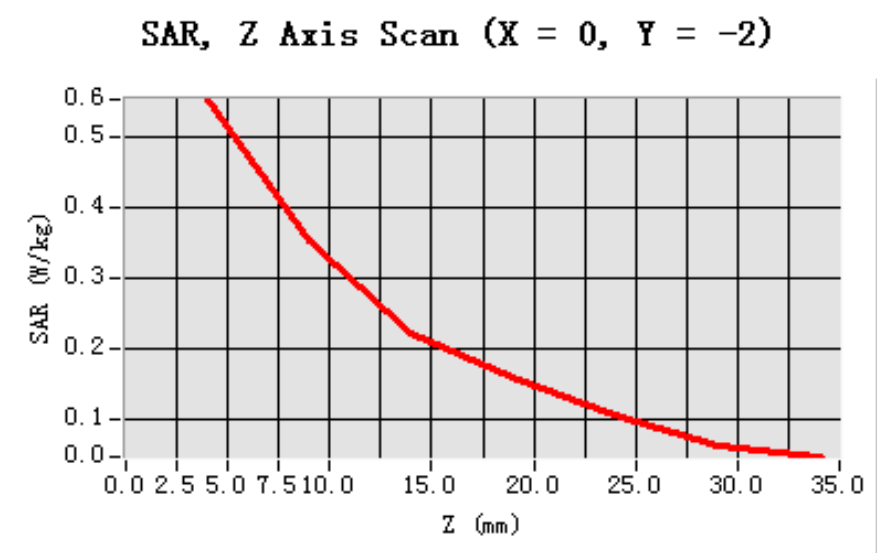
Frequency (MHz)	1907.602076
Relative permittivity (real part)	40.211151
Relative permittivity (imaginary part)	13.610085
Conductivity (S/m)	1.443325
Variation (%)	-1.140000



Maximum location: X=0.00, Y=-2.00

SAR 10g (W/Kg)	0.125311
SAR 1g (W/Kg)	0.351247

Z Axis Scan



MEASUREMENT 13

Type: Phone measurement (Complete)

Date of measurement: 04/16/2010

Measurement duration: 14 minutes 44 seconds

Mobile Phone IMEI number: --

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

Crest Factor: WCDMA Duty cycle: 1:1

Medium parameters used: $f=1852.4\text{MHz}$; $\sigma=53.00\text{mho/m}$; $\epsilon_r=1.50$; $\rho=1000\text{kg/m}^3$

Area Scan: 7 x 7 x 1 dx=15mm dy=15mm

Zoom Scan: 5 x 5 x 7 dx=5mm dy=5mm dz=5mm

Z Axis Scan: 1 x 1 x 21 dx=20mm dy=20mm dz=5mm

A. Experimental conditions.

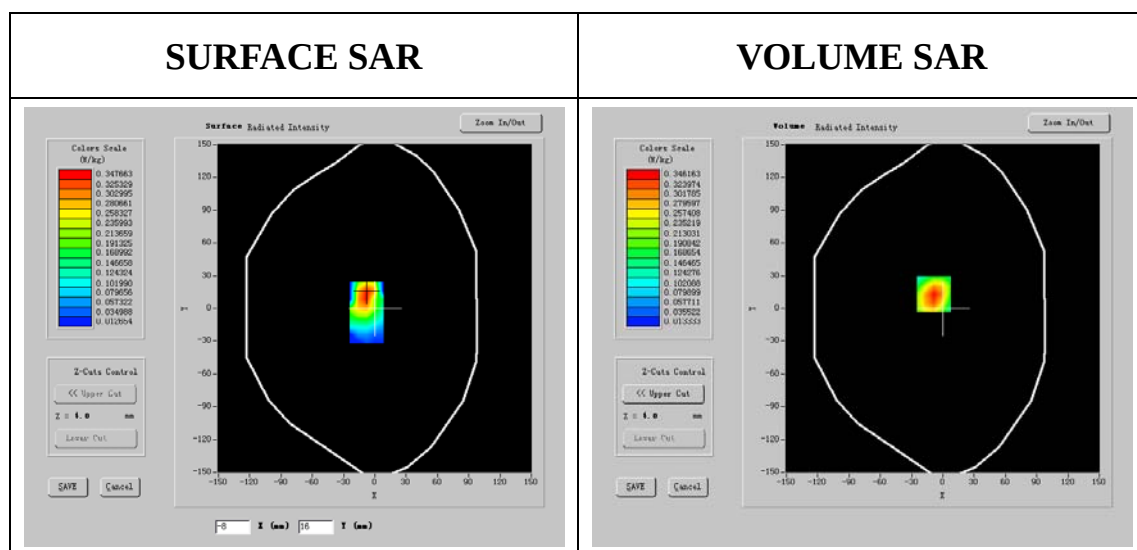
Phantom File	surf_sam_plan.txt, Adaptive 2 max
Phantom	Validation plane
Device Position	Body
Band	WCDMA BAND II
Channels	Low
Signal	WCDMA

B. Instrumentations.

PC	HP (Pentium(R) V3.06GHz, SN:375052-AA1)	Calibrated: N/A
Network Emulator	R&S (CMU200, SN:B23-03291)	Calibrated: 06/17/2009
Voltmeter	Keithley (2000, SN:1015843)	Calibrated: 05/01/2009
Synthetizer	Agilent (E8257C, SN:MY43321570)	Calibrated: 08/07/2009
Amplifier	Mini-Circuits (ZHL-42, SN:110405)	Calibrated: 07/29/2009
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibrated: 07/29/2009
Probe	Antennessa (SN:SN_1109_EP_100)	Calibrated: 04/16/2009
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibrated: N/A
Liquid	Antennessa	Calibrated: N/A
Measurement SW	OPEN SAR V2.1	Calibrated: N/A

C. SAR Measurement Results

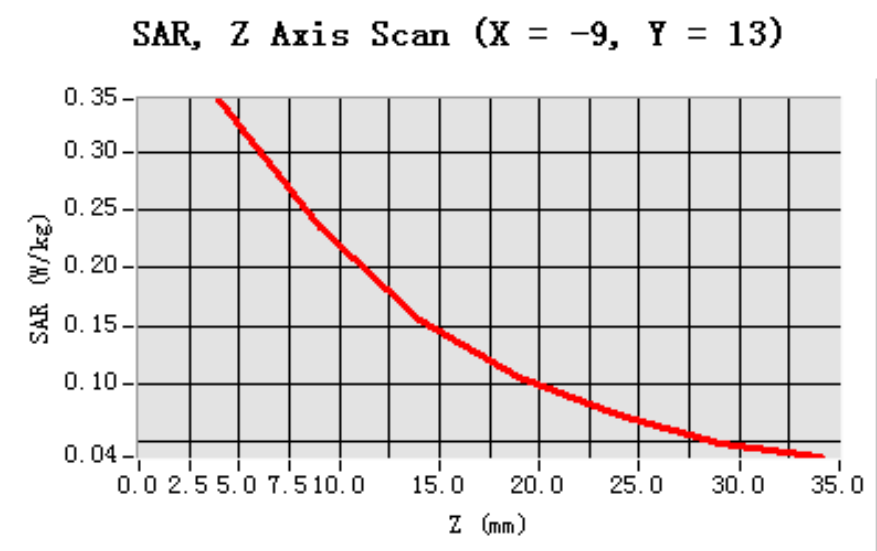
Frequency (MHz)	1852.400004
Relative permittivity (real part)	53.002001
Relative permittivity (imaginary part)	13.572033
Conductivity (S/m)	1.496015
Variation (%)	-0.130000



Maximum location: X=-9.00, Y=13.00

SAR 10g (W/Kg)	0.098441
SAR 1g (W/Kg)	0.161335

Z Axis Scan



MEASUREMENT 14

Type: Phone measurement (Complete)

Date of measurement: 04/16/2010

Measurement duration: 14 minutes 44 seconds

Mobile Phone IMEI number: --

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

Crest Factor: WCDMA Duty cycle: 1:1

Medium parameters used: $f=1880.0\text{MHz}$; $\sigma=52.95\text{mho/m}$; $\epsilon_r=1.50$; $\rho=1000\text{kg/m}^3$

Area Scan: 7 x 7 x 1 dx=15mm dy=15mm

Zoom Scan: 5 x 5 x 7 dx=5mm dy=5mm dz=5mm

Z Axis Scan: 1 x 1 x 21 dx=20mm dy=20mm dz=5mm

A. Experimental conditions.

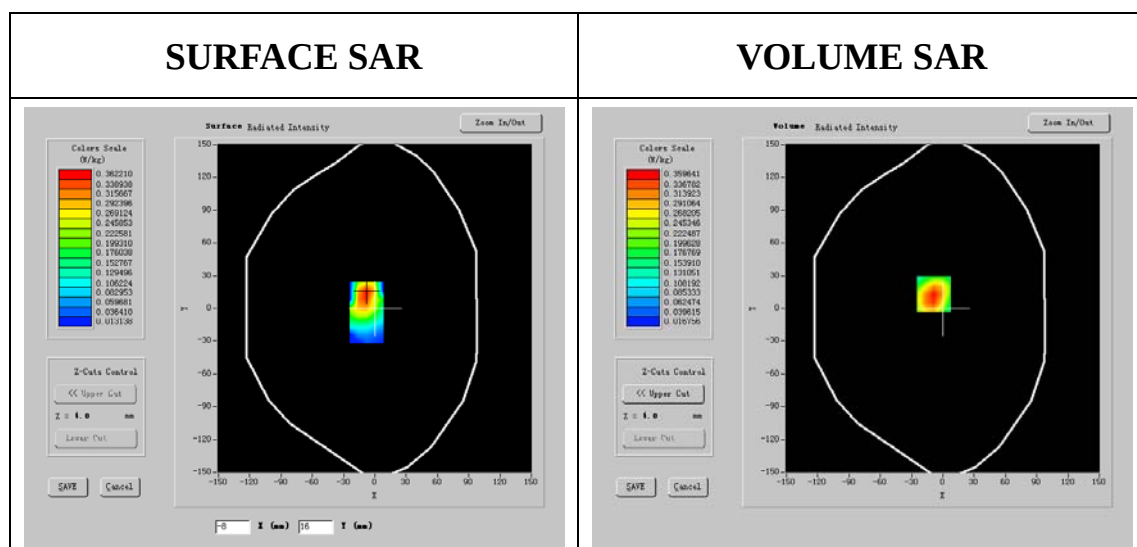
Phantom File	surf_sam_plan.txt, Adaptive 2 max
Phantom	Validation plane
Device Position	Body
Band	WCDMA BAND II
Channels	Middle
Signal	WCDMA

B. Instrumentations.

PC	HP (Pentium(R) V3.06GHz, SN:375052-AA1)	Calibrated: N/A
Network Emulator	R&S (CMU200, SN:B23-03291)	Calibrated: 06/17/2009
Voltmeter	Keithley (2000, SN:1015843)	Calibrated: 05/01/2009
Synthetizer	Agilent (E8257C, SN:MY43321570)	Calibrated: 08/07/2009
Amplifier	Mini-Circuits (ZHL-42, SN:110405)	Calibrated: 07/29/2009
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibrated: 07/29/2009
Probe	Antennessa (SN:SN_1109_EP_100)	Calibrated: 04/16/2009
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibrated: N/A
Liquid	Antennessa	Calibrated: N/A
Measurement SW:	OPEN SAR V2.1	Calibrated: N/A

C. SAR Measurement Results

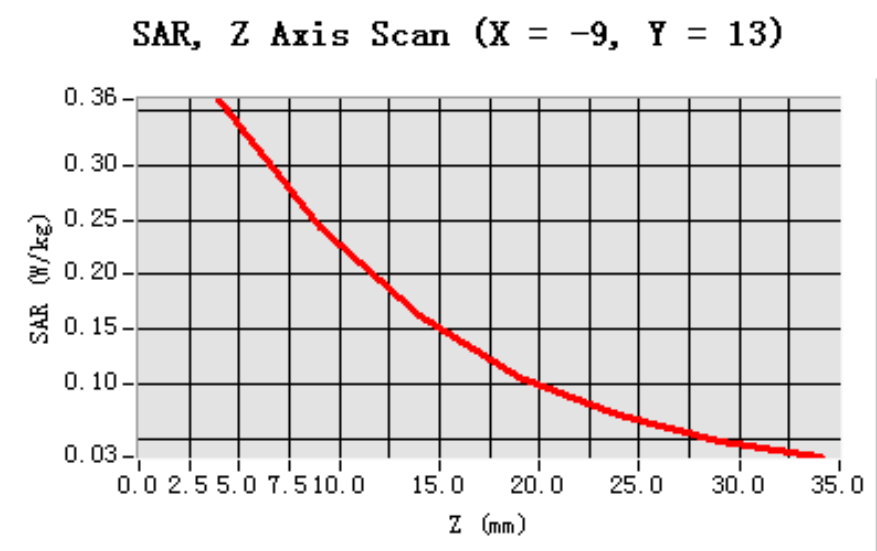
Frequency (MHz)	1880.000000
Relative permittivity (real part)	52.953021
Relative permittivity (imaginary part)	13.622015
Conductivity (S/m)	1.500210
Variation (%)	-0.600000



Maximum location: X=-9.00, Y=13.00

SAR 10g (W/Kg)	0.111036
SAR 1g (W/Kg)	0.189477

Z Axis Scan



MEASUREMENT 15

Type: Phone measurement (Complete)

Date of measurement: 04/16/2010

Measurement duration: 14 minutes 44 seconds

Mobile Phone IMEI number: --

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

Crest Factor: WCDMA Duty cycle: 1:1

Medium parameters used: $f=1907.6\text{MHz}$; $\sigma=52.98\text{mho/m}$; $\epsilon_r=1.50$; $\rho=1000\text{kg/m}^3$

Area Scan: 7 x 7 x 1 dx=15mm dy=15mm

Zoom Scan: 5 x 5 x 7 dx=5mm dy=5mm dz=5mm

Z Axis Scan: 1 x 1 x 21 dx=20mm dy=20mm dz=5mm

A. Experimental conditions.

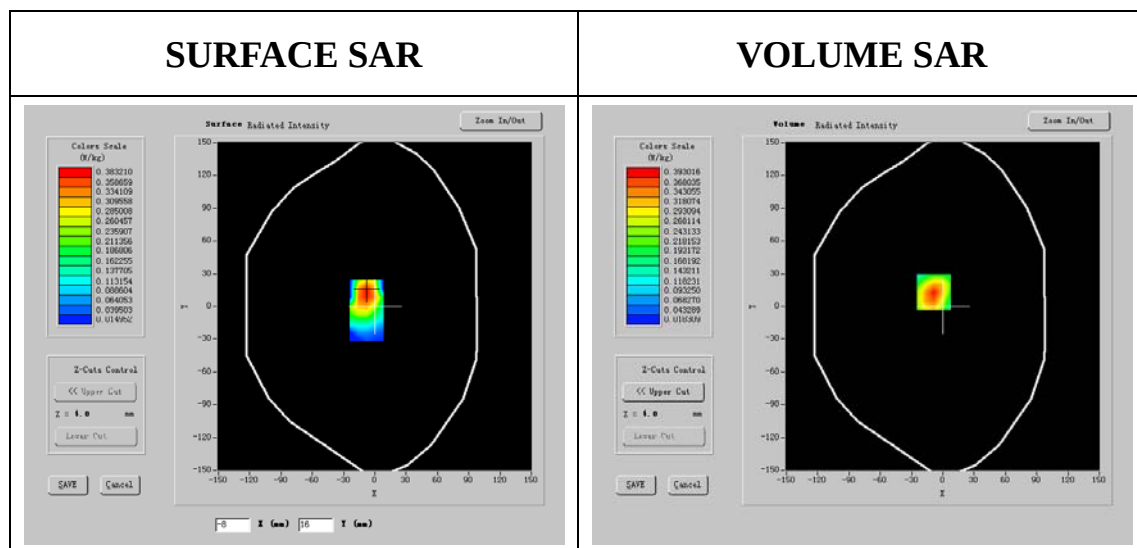
Phantom File	surf_sam_plan.txt, Adaptive 2 max
Phantom	Validation plane
Device Position	Body
Band	WCDMA BAND II
Channels	High
Signal	WCDMA

B. Instrumentations.

PC	HP (Pentium(R) V3.06GHz, SN:375052-AA1)	Calibrated: N/A
Network Emulator	R&S (CMU200, SN:B23-03291)	Calibrated: 06/17/2009
Voltmeter	Keithley (2000, SN:1015843)	Calibrated: 05/01/2009
Synthetizer	Agilent (E8257C, SN:MY43321570)	Calibrated: 08/07/2009
Amplifier	Mini-Circuits (ZHL-42, SN:110405)	Calibrated: 07/29/2009
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibrated: 07/29/2009
Probe	Antennessa (SN:SN_1109_EP_100)	Calibrated: 04/16/2009
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibrated: N/A
Liquid	Antennessa	Calibrated: N/A
Measurement SW:	OPEN SAR V2.1	Calibrated: N/A

C. SAR Measurement Results

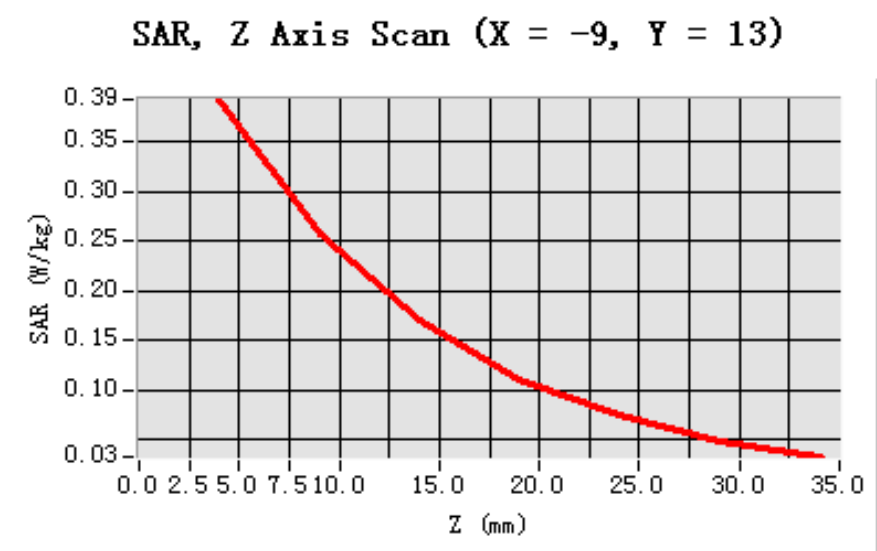
Frequency (MHz)	1907.690210
Relative permittivity (real part)	52.980331
Relative permittivity (imaginary part)	13.606316
Conductivity (S/m)	1.500122
Variation (%)	-0.400000



Maximum location: X=-9.00, Y=13.00

SAR 10g (W/Kg)	0.101347
SAR 1g (W/Kg)	0.178530

Z Axis Scan



MEASUREMENT 16

Type: Phone measurement (Complete)

Date of measurement: 04/16/2010

Measurement duration: 14 minutes 44 seconds

Mobile Phone IMEI number: --

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

Crest Factor: WCDMA Duty cycle: 1:1

Medium parameters used: $f=1852.4\text{MHz}$; $\sigma=53.00\text{mho/m}$; $\epsilon_r=1.50$; $\rho=1000\text{kg/m}^3$

Area Scan: 7 x 7 x 1 dx=15mm dy=15mm

Zoom Scan: 5 x 5 x 7 dx=5mm dy=5mm dz=5mm

Z Axis Scan: 1 x 1 x 21 dx=20mm dy=20mm dz=5mm

A. Experimental conditions.

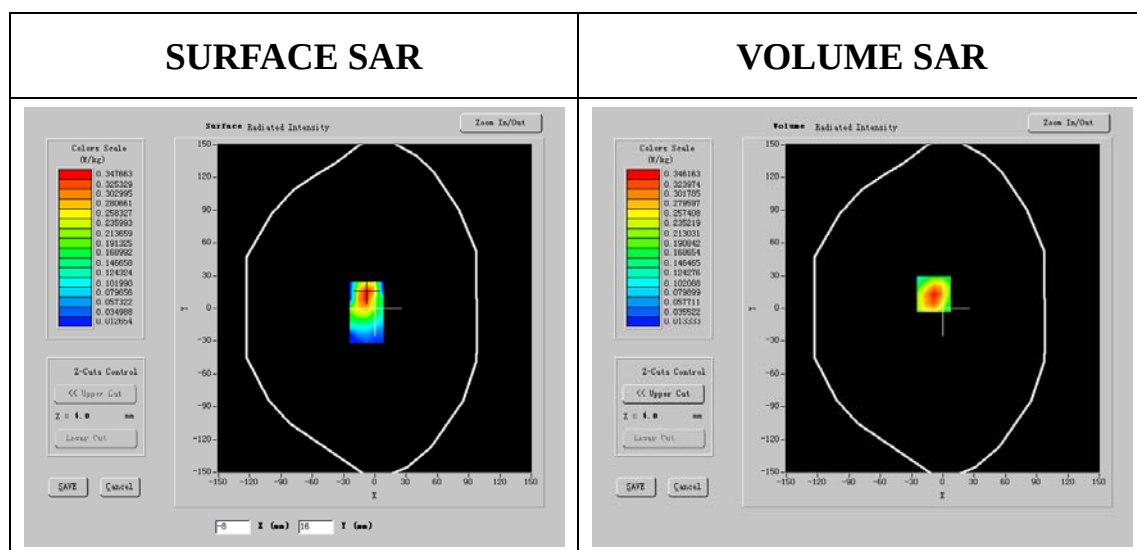
Phantom File	surf_sam_plan.txt, Adaptive 2 max
Phantom	Validation plane
Device Position	Body
Band	HSDPA BAND II
Channels	Low
Signal	WCDMA

B. Instrumentations.

PC	HP (Pentium(R) V3.06GHz, SN:375052-AA1)	Calibrated: N/A
Network Emulator	R&S (CMU200, SN:B23-03291)	Calibrated: 06/17/2009
Voltmeter	Keithley (2000, SN:1015843)	Calibrated: 05/01/2009
Synthetizer	Agilent (E8257C, SN:MY43321570)	Calibrated: 08/07/2009
Amplifier	Mini-Circuits (ZHL-42, SN:110405)	Calibrated: 07/29/2009
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibrated: 07/29/2009
Probe	Antennessa (SN:SN_1109_EP_100)	Calibrated: 04/16/2009
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibrated: N/A
Liquid	Antennessa	Calibrated: N/A
Measurement SW	OPEN SAR V2.1	Calibrated: N/A

C. SAR Measurement Results

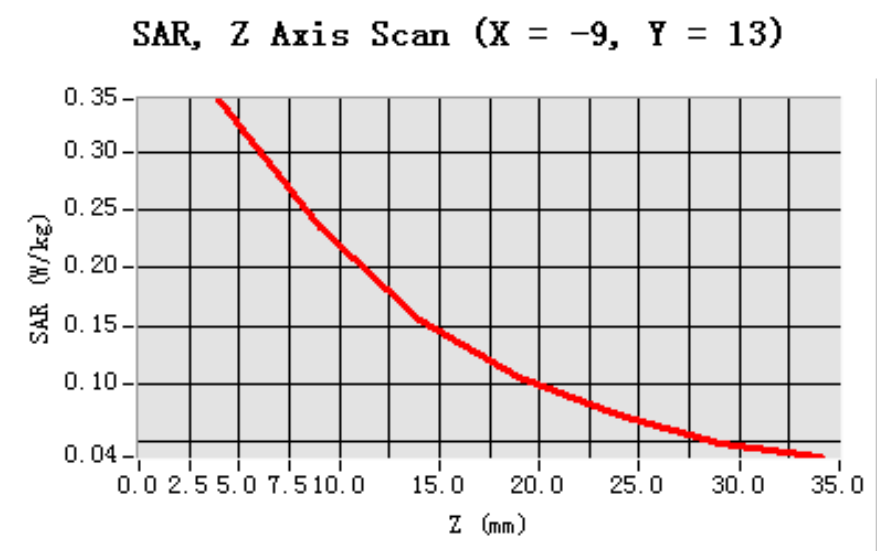
Frequency (MHz)	1852.400004
Relative permittivity (real part)	53.002030
Relative permittivity (imaginary part)	13.572017
Conductivity (S/m)	1.496001
Variation (%)	-0.130000



Maximum location: X=-9.00, Y=13.00

SAR 10g (W/Kg)	0.097102
SAR 1g (W/Kg)	0.158326

Z Axis Scan



MEASUREMENT 17

Type: Phone measurement (Complete)

Date of measurement: 04/16/2010

Measurement duration: 14 minutes 44 seconds

Mobile Phone IMEI number: --

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

Crest Factor: WCDMA Duty cycle: 1:1

Medium parameters used: $f=1880.0\text{MHz}$; $\sigma=52.95\text{mho/m}$; $\epsilon_r=1.50$; $\rho=1000\text{kg/m}^3$

Area Scan: 7 x 7 x 1 dx=15mm dy=15mm

Zoom Scan: 5 x 5 x 7 dx=5mm dy=5mm dz=5mm

Z Axis Scan: 1 x 1 x 21 dx=20mm dy=20mm dz=5mm

A. Experimental conditions.

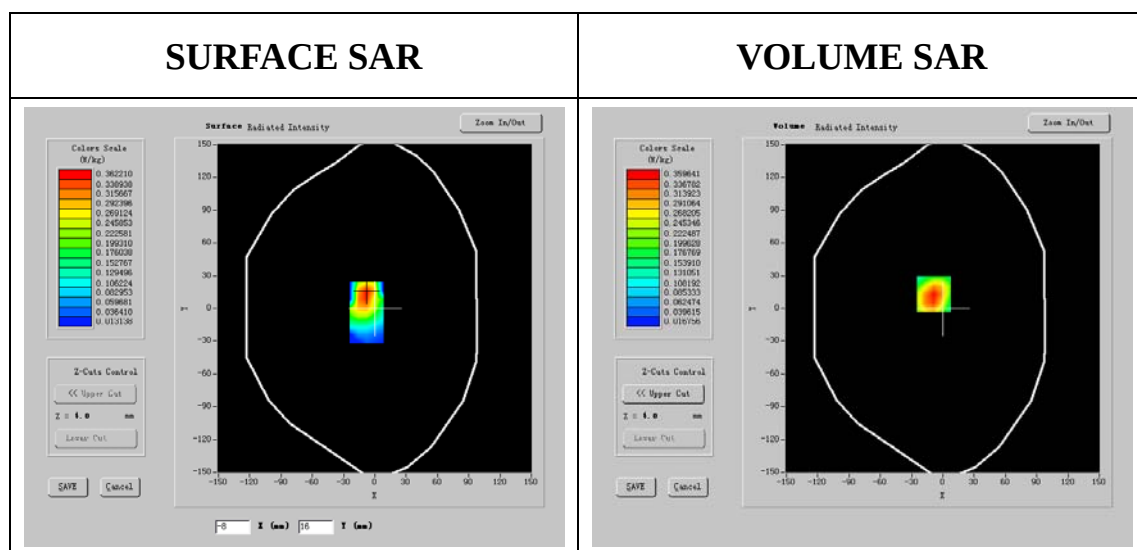
Phantom File	surf_sam_plan.txt, Adaptive 2 max
Phantom	Validation plane
Device Position	Body
Band	HSDPA BAND II
Channels	Middle
Signal	WCDMA

B. Instrumentations.

PC	HP (Pentium(R) V3.06GHz, SN:375052-AA1)	Calibrated: N/A
Network Emulator	R&S (CMU200, SN:B23-03291)	Calibrated: 06/17/2009
Voltmeter	Keithley (2000, SN:1015843)	Calibrated: 05/01/2009
Synthetizer	Agilent (E8257C, SN:MY43321570)	Calibrated: 08/07/2009
Amplifier	Mini-Circuits (ZHL-42, SN:110405)	Calibrated: 07/29/2009
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibrated: 07/29/2009
Probe	Antennessa (SN:SN_1109_EP_100)	Calibrated: 04/16/2009
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibrated: N/A
Liquid	Antennessa	Calibrated: N/A
Measurement SW	OPEN SAR V2.1	Calibrated: N/A

C. SAR Measurement Results

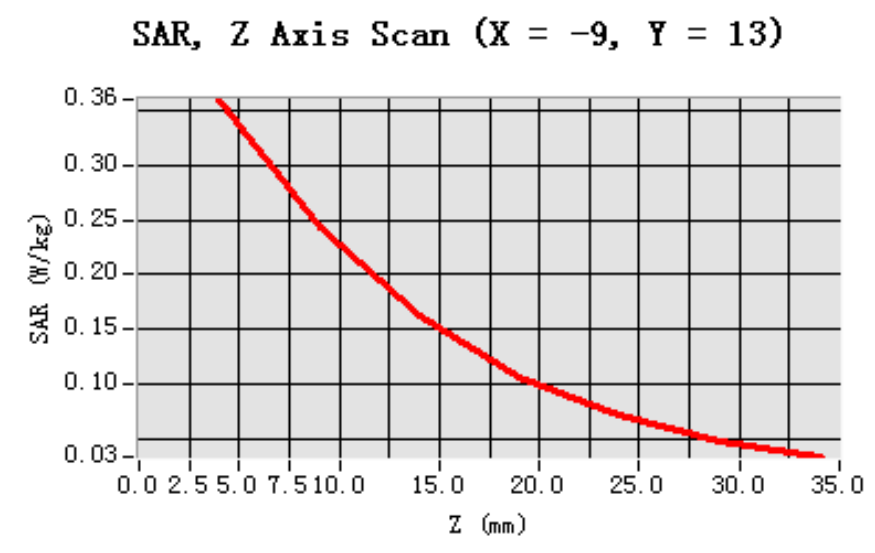
Frequency (MHz)	1880.000000
Relative permittivity (real part)	52.952056
Relative permittivity (imaginary part)	13.62128
Conductivity (S/m)	1.500234
Variation (%)	-0.600000



Maximum location: X=-9.00, Y=13.00

SAR 10g (W/Kg)	0.110369
SAR 1g (W/Kg)	0.185448

Z Axis Scan



MEASUREMENT 18

Type: Phone measurement (Complete)

Date of measurement: 04/16/2010

Measurement duration: 14 minutes 44 seconds

Mobile Phone IMEI number: --

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

Crest Factor: WCDMA Duty cycle: 1:1

Medium parameters used: $f=1907.6\text{MHz}$; $\sigma=52.98\text{mho/m}$; $\epsilon_r=1.50$; $\rho=1000\text{kg/m}^3$

Area Scan: 7 x 7 x 1 dx=15mm dy=15mm

Zoom Scan: 5 x 5 x 7 dx=5mm dy=5mm dz=5mm

Z Axis Scan: 1 x 1 x 21 dx=20mm dy=20mm dz=5mm

A. Experimental conditions.

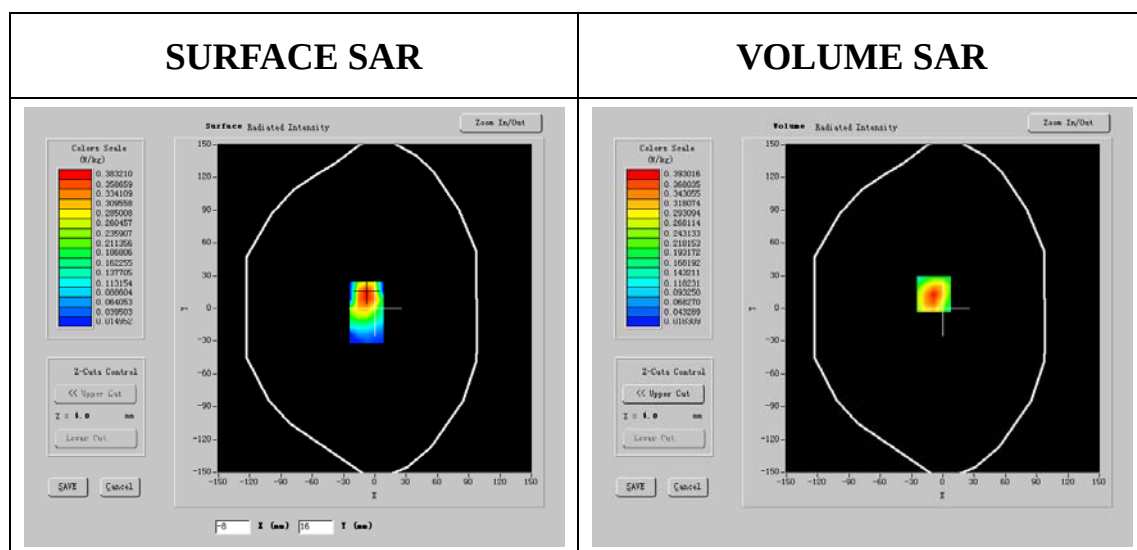
Phantom File	surf_sam_plan.txt, Adaptive 2 max
Phantom	Validation plane
Device Position	Body
Band	HSDPA BAND II
Channels	High
Signal	WCDMA

B. Instrumentations.

PC	HP (Pentium(R) V3.06GHz, SN:375052-AA1)	Calibrated: N/A
Network Emulator	R&S (CMU200, SN:B23-03291)	Calibrated: 06/17/2009
Voltmeter	Keithley (2000, SN:1015843)	Calibrated: 05/01/2009
Synthetizer	Agilent (E8257C, SN:MY43321570)	Calibrated: 08/07/2009
Amplifier	Mini-Circuits (ZHL-42, SN:110405)	Calibrated: 07/29/2009
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibrated: 07/29/2009
Probe	Antennessa (SN:SN_1109_EP_100)	Calibrated: 04/16/2009
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibrated: N/A
Liquid	Antennessa	Calibrated: N/A
Measurement SW	OPEN SAR V2.1	Calibrated: N/A

C. SAR Measurement Results

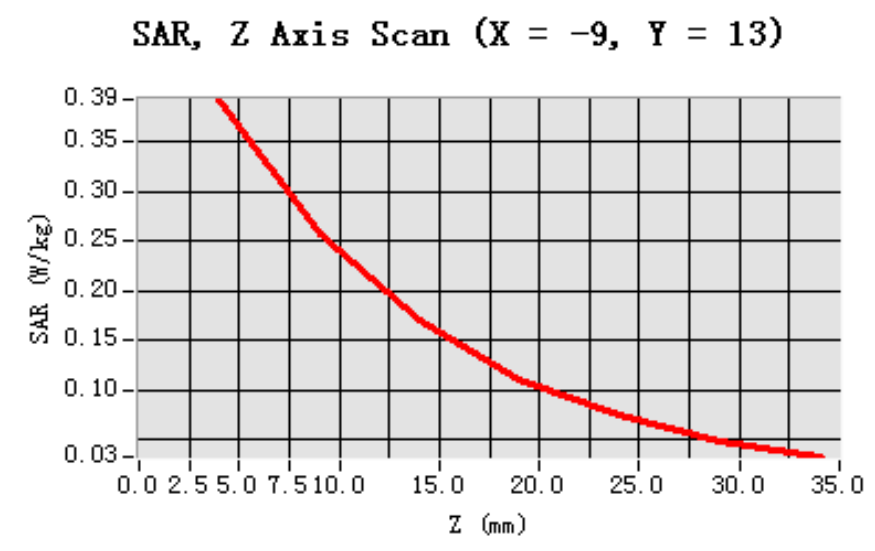
Frequency (MHz)	1906.790210
Relative permittivity (real part)	52.980116
Relative permittivity (imaginary part)	13.606329
Conductivity (S/m)	1.500147
Variation (%)	-0.400000



Maximum location: X=-9.00, Y=13.00

SAR 10g (W/Kg)	0.105647
SAR 1g (W/Kg)	0.169111

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 <u>Measurement 2:</u> Validation Plane with Body device position on Middle Channel in GPRS mode <u>Measurement 3:</u> Validation Plane with Body device position on High Channel in GPRS mode

MEASUREMENT 1

Type: Phone measurement (Complete)

Date of measurement: 04/16/2010

Measurement duration: 14 minutes 29 seconds

Mobile Phone IMEI number:

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

Crest Factor: GPRS Duty cycle: 1:2

Medium parameters used: $f=824.2\text{MHz}$; $\sigma=56.55\text{mho/m}$; $\epsilon_r=0.98$; $\rho=1000\text{kg/m}^3$

Area Scan: 7 x 7 x 1 dx=15mm dy=15mm

Zoom Scan: 5 x 5 x 7 dx=5mm dy=5mm dz=5mm

Z Axis Scan: 1 x 1 x 21 dx=20mm dy=20mm dz=5mm

A. Experimental conditions.

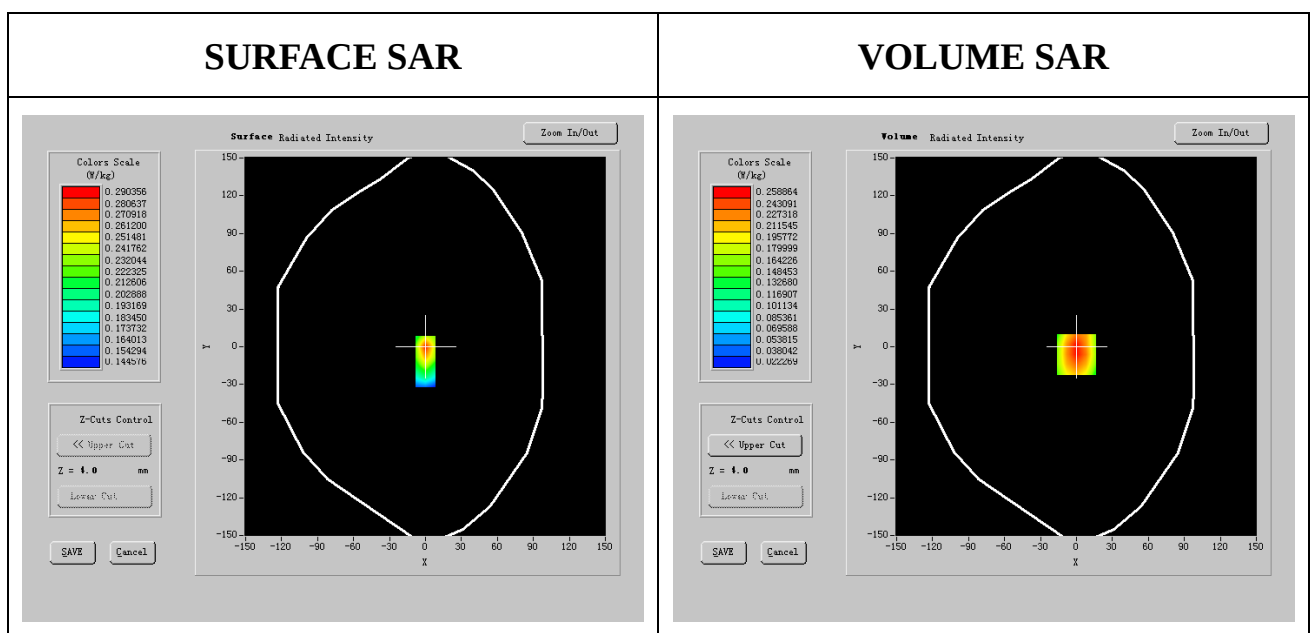
Phantom File	surf_sam_plan.txt, Adaptive 2 max
Phantom	Validation plane
Device Position	Body
Band	GPRS850
Channels	Low
Signal	GPRS

B. Instrumentations.

PC	HP (Pentium(R) V3.06GHz, SN:375052-AA1)	Calibrated: N/A
Network Emulator	R&S (CMU200, SN:B23-03291)	Calibrated: 06/17/2009
Voltmeter	Keithley (2000, SN:1015843)	Calibrated: 05/01/2009
Synthetizer	Agilent (E8257C, SN:MY43321570)	Calibrated: 08/07/2009
Amplifier	Mini-Circuits (ZHL-42, SN:110405)	Calibrated: 07/29/2009
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibrated: 07/29/2009
Probe	Antennessa (SN:SN_1109_EP_100)	Calibrated: 04/16/2009
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibrated: N/A
Liquid	Antennessa	Calibrated: N/A
Measurement SW:	OPEN SAR V2.1	Calibrated: N/A

C. SAR Measurement Results

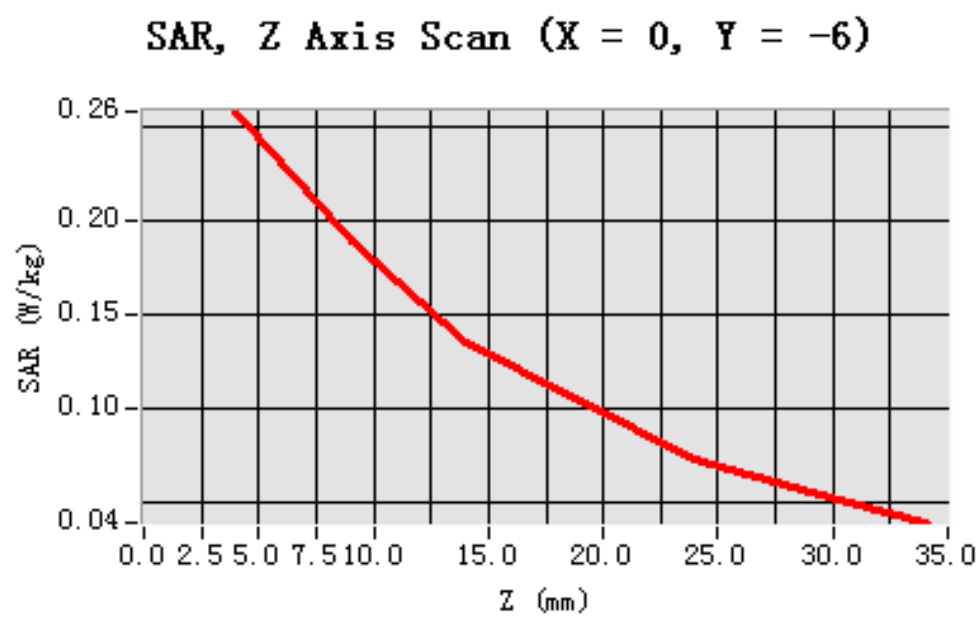
Frequency (MHz)	824.200012
Relative permittivity (real part)	56.552000
Relative permittivity (imaginary part)	21.672100
Conductivity (S/m)	0.980120
Variation (%)	-0.120000



Maximum location: X=0.00, Y=-6.00

SAR 10g (W/Kg)	0.205444
SAR 1g (W/Kg)	0.532471

Z Axis Scan



MEASUREMENT 2

Type: Phone measurement (Complete)

Date of measurement: 04/16/2010

Measurement duration: 14 minutes 29 seconds

Mobile Phone IMEI number:

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

Crest Factor: GPRS Duty cycle: 1:2

Medium parameters used: $f=836.6\text{MHz}$; $\sigma=55.51\text{mho/m}$; $\epsilon_r=0.98$; $\rho=1000\text{kg/m}^3$

Area Scan: 7 x 7 x 1

dx=15mm

dy=15mm

Zoom Scan: 5 x 5 x 7

dx=5mm

dy=5mm

dz=5mm

Z Axis Scan: 1 x 1 x 21

dx=20mm

dy=20mm

dz=5mm

A. Experimental conditions.

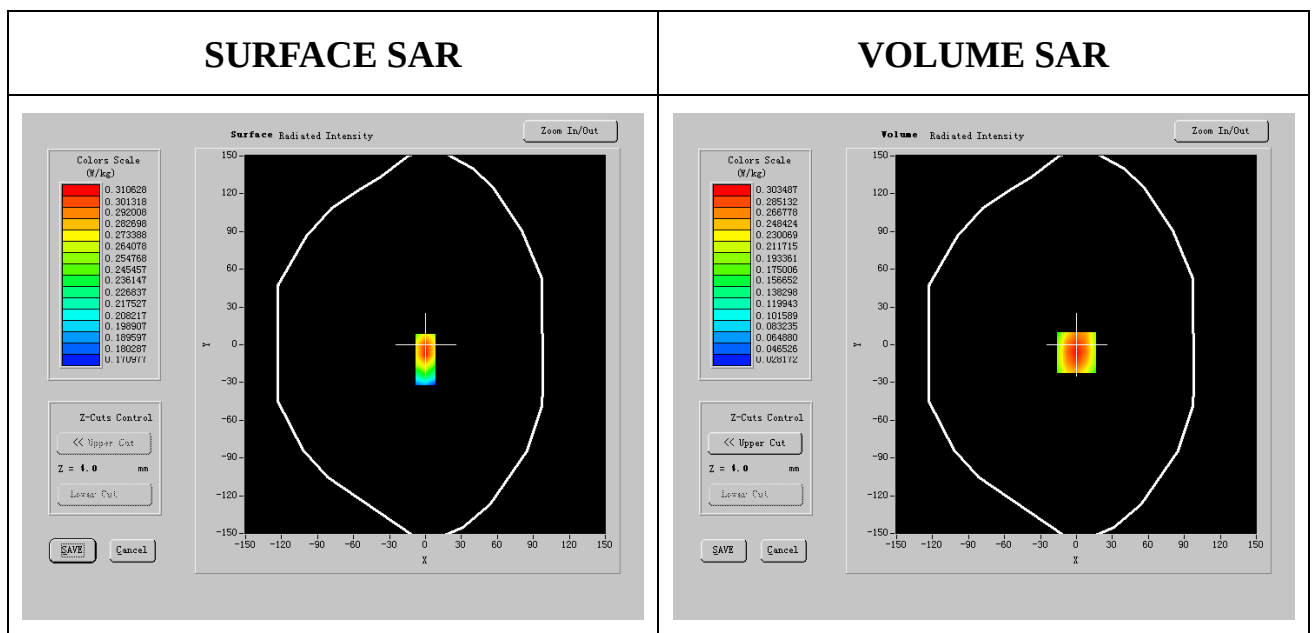
Phantom File	surf_sam_plan.txt, Adaptive 2 max
Phantom	Validation plane
Device Position	Body
Band	GPRS850
Channels	Middle
Signal	GPRS

B. Instrumentations.

PC	HP (Pentium(R) V3.06GHz, SN:375052-AA1)	Calibrated: N/A
Network Emulator	R&S (CMU200, SN:B23-03291)	Calibrated: 06/17/2009
Voltmeter	Keithley (2000, SN:1015843)	Calibrated: 05/01/2009
Synthesizer	Agilent (E8257C, SN:MY43321570)	Calibrated: 08/07/2009
Amplifier	Mini-Circuits (ZHL-42, SN:110405)	Calibrated: 07/29/2009
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibrated: 07/29/2009
Probe	Antennessa (SN:SN_1109_EP_100)	Calibrated: 04/16/2009
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibrated: N/A
Liquid	Antennessa	Calibrated: N/A
Measurement SW:	OPEN SAR V2.1	Calibrated: N/A

C. SAR Measurement Results

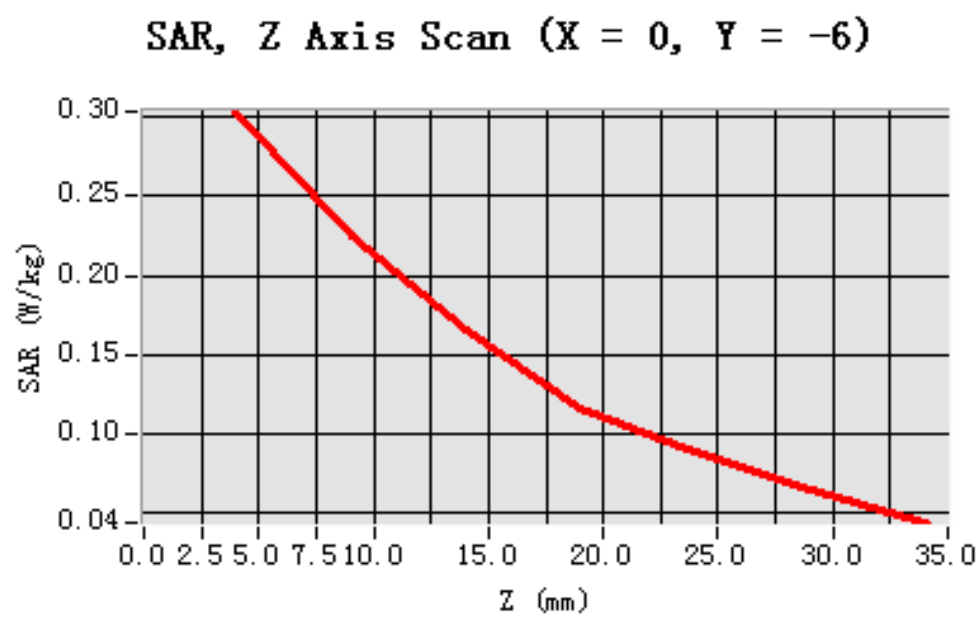
Frequency (MHz)	836.600004
Relative permittivity (real part)	55.511019
Relative permittivity (imaginary part)	21.833209
Conductivity (S/m)	0.981052
Variation (%)	-0.200000



Maximum location: X=0.00, Y=-6.00

SAR 10g (W/Kg)	0.222369
SAR 1g (W/Kg)	0.612487

Z Axis Scan



MEASUREMENT 3

Type: Phone measurement (Complete)

Date of measurement: 04/16/2010

Measurement duration: 14 minutes 29 seconds

Mobile Phone IMEI number:

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

Crest Factor: GPRS Duty cycle: 1:2

Medium parameters used: $f=848.8\text{MHz}$; $\sigma=55.51\text{mho/m}$; $\epsilon_r=0.98$; $\rho=1000\text{kg/m}^3$

Area Scan: 7 x 7 x 1

dx=15mm

dy=15mm

Zoom Scan: 5 x 5 x 7

dx=5mm

dy=5mm

dz=5mm

Z Axis Scan: 1 x 1 x 21

dx=20mm

dy=20mm

dz=5mm

A. Experimental conditions.

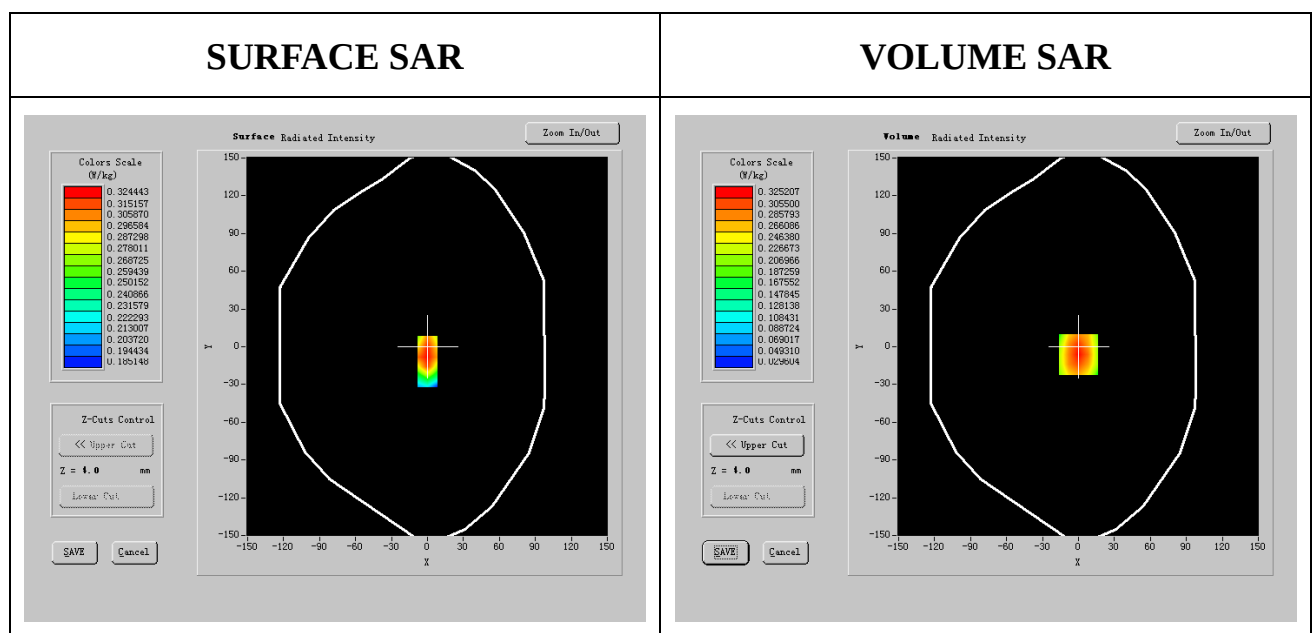
Phantom File	surf_sam_plan.txt, Adaptive 2 max
Phantom	Validation plane
Device Position	Body
Band	GPRS850
Channels	High
Signal	GPRS

B. Instrumentations.

PC	HP (Pentium(R) V3.06GHz, SN:375052-AA1)	Calibrated: N/A
Network Emulator	R&S (CMU200, SN:B23-03291)	Calibrated: 06/17/2009
Voltmeter	Keithley (2000, SN:1015843)	Calibrated: 05/01/2009
Synthetizer	Agilent (E8257C, SN:MY43321570)	Calibrated: 08/07/2009
Amplifier	Mini-Circuits (ZHL-42, SN:110405)	Calibrated: 07/29/2009
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibrated: 07/29/2009
Probe	Antennessa (SN:SN_1109_EP_100)	Calibrated: 04/16/2009
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibrated: N/A
Liquid	Antennessa	Calibrated: N/A
Measurement SW:	OPEN SAR V2.1	Calibrated: N/A

C. SAR Measurement Results

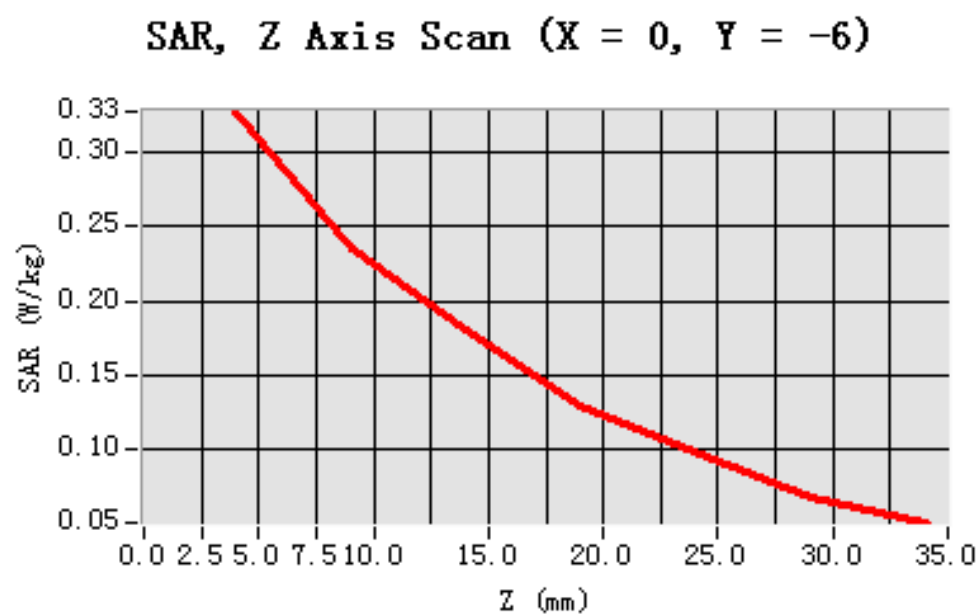
Frequency (MHz)	848.799001
Relative permittivity (real part)	55.512010
Relative permittivity (imaginary part)	21.820101
Conductivity (S/m)	0.979012
Variation (%)	-0.200000



Maximum location: X=0.00, Y=-6.00

SAR 10g (W/Kg)	0.215476
SAR 1g (W/Kg)	0.587022

Z Axis Scan



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 <u>Measurement 2:</u> Validation Plane with Body device position on Middle Channel in GPRS mode <u>Measurement 3:</u> Validation Plane with Body device position on High Channel in GPRS mode

MEASUREMENT 1

Type: Phone measurement (Complete)

Date of measurement: 04/16/2010

Measurement duration: 6 minutes 46 seconds

Mobile Phone IMEI number: --

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

Crest Factor: GPRS Duty cycle: 1:2

Medium parameters used: $f=1850.2\text{MHz}$; $\sigma=52.85\text{mho/m}$; $\epsilon_r=1.50$; $\rho=1000\text{kg/m}^3$

Area Scan: 7 x 7 x 1 dx=15mm dy=15mm

Zoom Scan: 5 x 5 x 7 dx=5mm dy=5mm dz=5mm

Z Axis Scan: 1 x 1 x 21 dx=20mm dy=20mm dz=5mm

A. Experimental conditions.

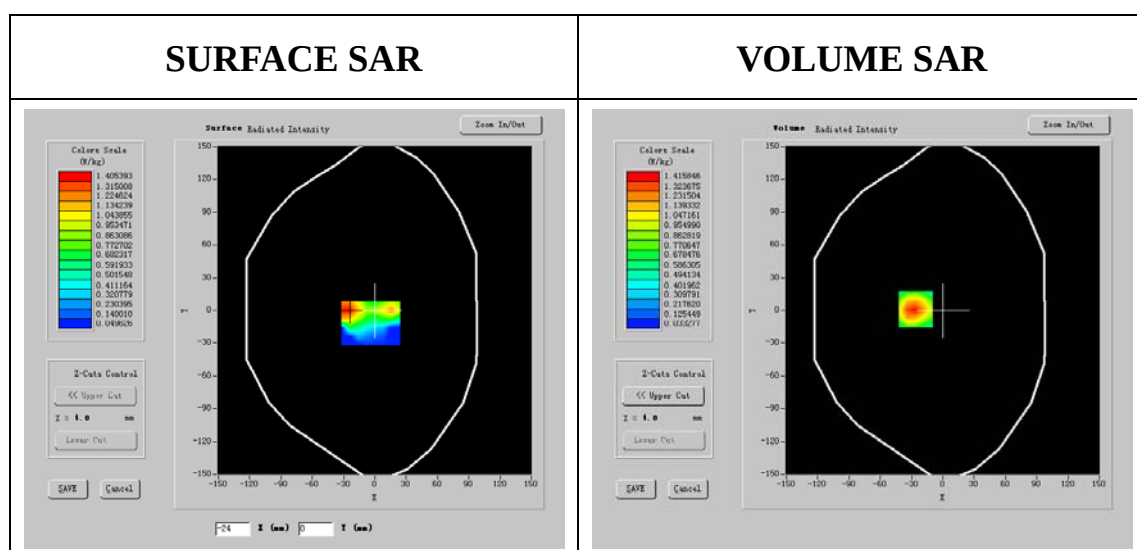
Phantom File	zinf15.txt, Adaptive 2 max
Phantom	Validation plane
Device Position	Body
Band	GPRS1900
Channels	Low
Signal	GPRS

B. Instrumentations.

PC	HP (Pentium(R) V3.06GHz, SN:375052-AA1)	Calibrated: N/A
Network Emulator	R&S (CMU200, SN:B23-03291)	Calibrated: 06/17/2009
Voltmeter	Keithley (2000, SN:1015843)	Calibrated: 05/01/2009
Synthetizer	Agilent (E8257C, SN:MY43321570)	Calibrated: 08/07/2009
Amplifier	Mini-Circuits (ZHL-42, SN:110405)	Calibrated: 07/29/2009
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibrated: 07/29/2009
Probe	Antennessa (SN:SN_1109_EP_100)	Calibrated: 04/16/2009
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibrated: N/A
Liquid	Antennessa	Calibrated: N/A
Measurement SW	OPEN SAR V2.1	Calibrated: N/A

C. SAR Measurement Results

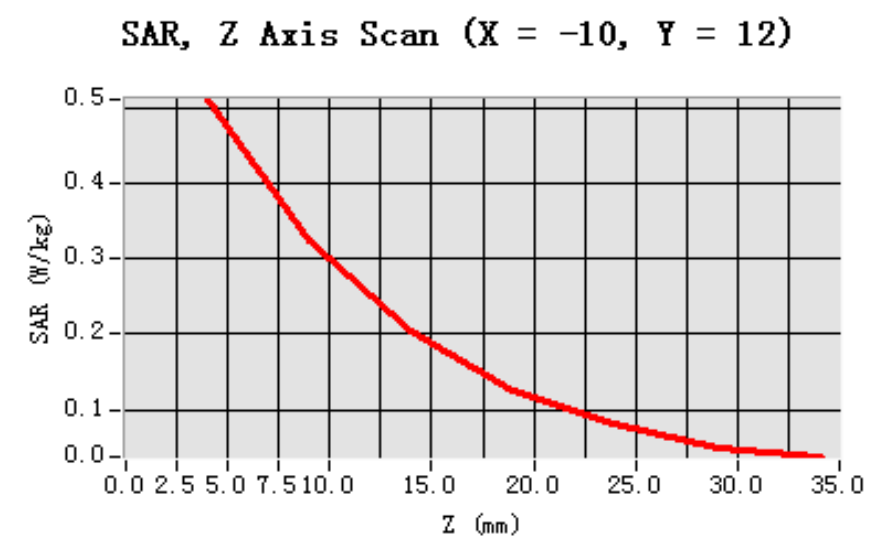
Frequency (MHz)	1850.199021
Relative permittivity (real part)	52.852100
Relative permittivity (imaginary part)	14.441202
Conductivity (S/m)	1.500321
Variation (%)	-0.500000



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

SAR 10g (W/Kg)	0.611458
SAR 1g (W/Kg)	0.832475

Z Axis Scan



MEASUREMENT 2

Type: Phone measurement (Complete)

Date of measurement: 04/16/2010

Measurement duration: 6 minutes 51 seconds

Mobile Phone IMEI number: --

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

Crest Factor: GPRS Duty cycle: 1:2

Medium parameters used: $f=1880.0\text{MHz}$; $\sigma=52.90\text{mho/m}$; $\epsilon_r=1.50$; $\rho=1000\text{kg/m}^3$

Area Scan: 7 x 7 x 1

dx=15mm

dy=15mm

Zoom Scan: 5 x 5 x 7

dx=5mm

dy=5mm

dz=5mm

Z Axis Scan: 1 x 1 x 21

dx=20mm

dy=20mm

dz=5mm

A. Experimental conditions.

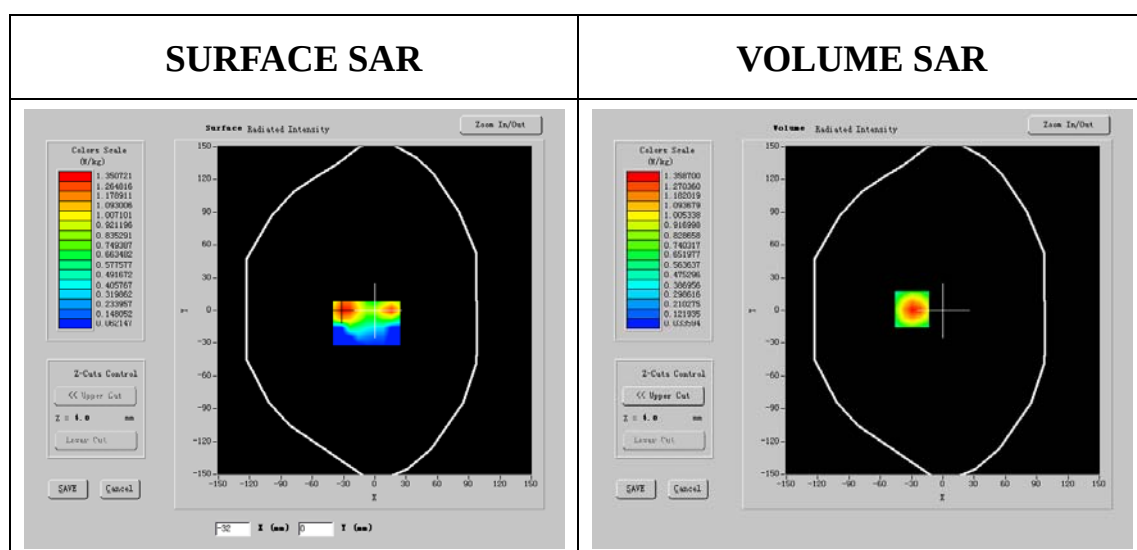
Phantom File	zinf15.txt, Adaptive 2 max
Phantom	Validation plane
Device Position	Body
Band	GPRS1900
Channels	Middle
Signal	GPRS

B. Instrumentations.

PC	HP (Pentium(R) V3.06GHz, SN:375052-AA1)	Calibrated: N/A
Network Emulator	R&S (CMU200, SN:B23-03291)	Calibrated: 06/17/2009
Voltmeter	Keithley (2000, SN:1015843)	Calibrated: 05/01/2009
Synthetizer	Agilent (E8257C, SN:MY43321570)	Calibrated: 08/07/2009
Amplifier	Mini-Circuits (ZHL-42, SN:110405)	Calibrated: 07/29/2009
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibrated: 07/29/2009
Probe	Antennessa (SN:SN_1109_EP_100)	Calibrated: 04/16/2009
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibrated: N/A
Liquid	Antennessa	Calibrated: N/A
Measurement SW	OPEN SAR V2.1	Calibrated: N/A

C. SAR Measurement Results

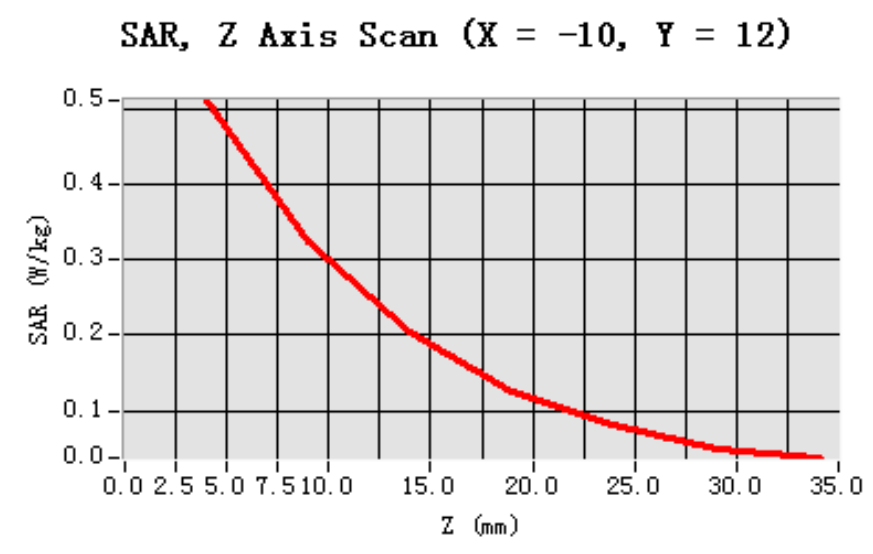
Frequency (MHz)	1880.000004
Relative permittivity (real part)	52.902103
Relative permittivity (imaginary part)	14.255206
Conductivity (S/m)	1.500203
Variation (%)	-1.000000



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

SAR 10g (W/Kg)	0.633841
SAR 1g (W/Kg)	0.851750

Z Axis Scan



MEASUREMENT 3

Type: Phone measurement (Complete)

Date of measurement: 04/16/2010

Measurement duration: 6 minutes 21 seconds

Mobile Phone IMEI number: --

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

Crest Factor: GPRS Duty cycle: 1:2

Medium parameters used: $f=1910.0\text{MHz}$; $\sigma=52.91\text{mho/m}$; $\epsilon_r=1.50$; $\rho=1000\text{kg/m}^3$

Area Scan: 7 x 7 x 1

dx=15mm

dy=15mm

Zoom Scan: 5 x 5 x 7

dx=5mm

dy=5mm

dz=5mm

Z Axis Scan: 1 x 1 x 21

dx=20mm

dy=20mm

dz=5mm

A. Experimental conditions.

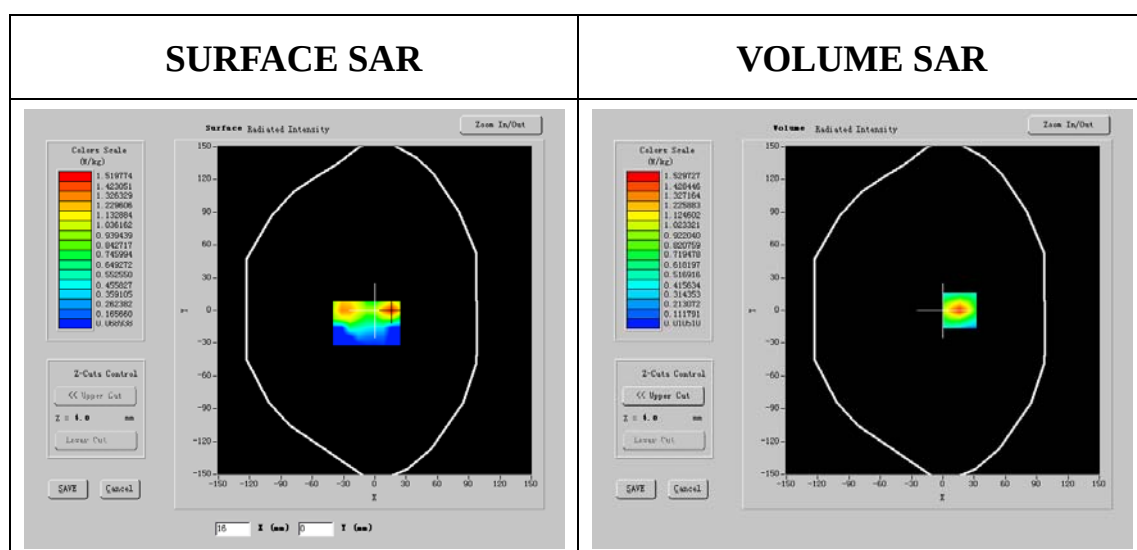
Phantom File	zinf15.txt, Adaptive 2 max
Phantom	Validation plane
Device Position	Body
Band	GPRS1900
Channels	High
Signal	GPRS

B. Instrumentations.

PC	HP (Pentium(R) V3.06GHz, SN:375052-AA1)	Calibrated: N/A
Network Emulator	R&S (CMU200, SN:B23-03291)	Calibrated: 06/17/2009
Voltmeter	Keithley (2000, SN:1015843)	Calibrated: 05/01/2009
Synthetizer	Agilent (E8257C, SN:MY43321570)	Calibrated: 08/07/2009
Amplifier	Mini-Circuits (ZHL-42, SN:110405)	Calibrated: 07/29/2009
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibrated: 07/29/2009
Probe	Antennessa (SN:SN_1109_EP_100)	Calibrated: 04/16/2009
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibrated: N/A
Liquid	Antennessa	Calibrated: N/A
Measurement SW	OPEN SAR V2.1	Calibrated: N/A

C. SAR Measurement Results

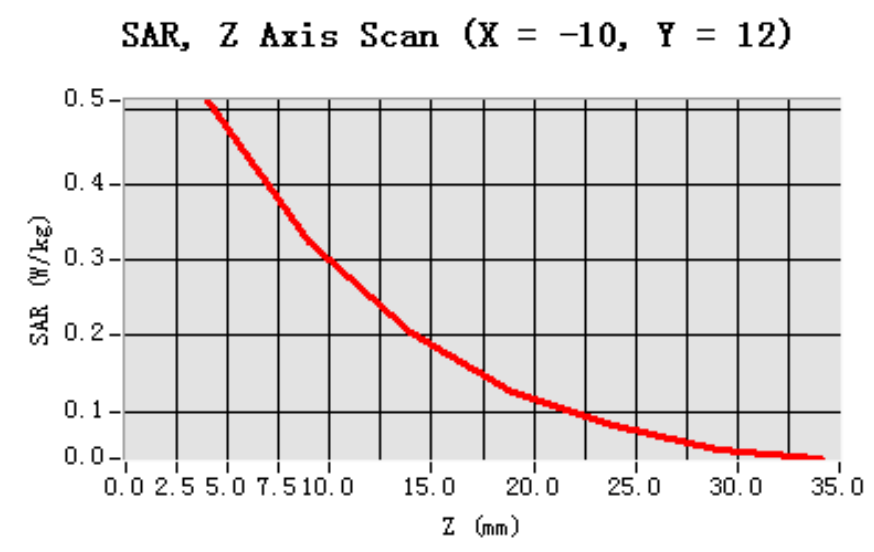
Frequency (MHz)	1910.029036
Relative permittivity (real part)	52.910010
Relative permittivity (imaginary part)	14.311200
Conductivity (S/m)	1.500102
Variation (%)	-0.130000



Maximum location: X=2.00, Y=9.00

SAR 10g (W/Kg)	0.621407
SAR 1g (W/Kg)	0.841333

Z Axis Scan



DEGE 850

I. RESULTS

<u>TYPE</u>	<u>BAND</u>	<u>PARAMETERS</u>
<u>Noise</u>	--	--
<u>Validation</u>	--	--
<u>Phone</u>	EDGE850	<u>Measurement 1:</u> Validation Plane with Body device position on Low Channel in EDGE mode <u>Measurement 2:</u> Validation Plane with Body device position on Middle Channel in EDGE mode <u>Measurement 3:</u> Validation Plane with Body device position on High Channel in EDGE mode

MEASUREMENT 1

Type: Phone measurement (Complete)

Date of measurement: 04/16/2010

Measurement duration: 14 minutes 29 seconds

Mobile Phone IMEI number:

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

Crest Factor: EDGE Duty cycle: 1:2

Medium parameters used: $f=824.2\text{MHz}$; $\sigma=56.55\text{mho/m}$; $\epsilon_r=0.98$; $\rho=1000\text{kg/m}^3$

Area Scan: 7 x 7 x 1 dx=15mm dy=15mm

Zoom Scan: 5 x 5 x 7 dx=5mm dy=5mm dz=5mm

Z Axis Scan: 1 x 1 x 21 dx=20mm dy=20mm dz=5mm

A. Experimental conditions.

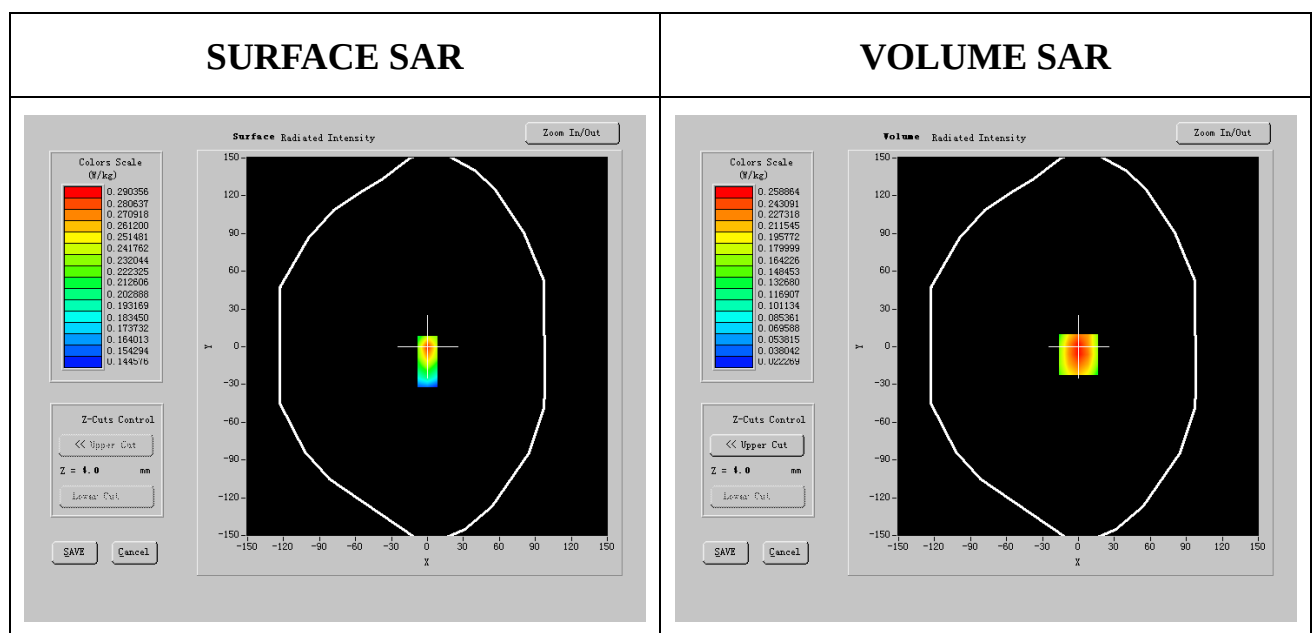
Phantom File	surf_sam_plan.txt, Adaptive 2 max
Phantom	Validation plane
Device Position	Body
Band	EDGE850
Channels	Low
Signal	EDGE

B. Instrumentations.

PC	HP (Pentium(R) V3.06GHz, SN:375052-AA1)	Calibrated: N/A
Network Emulator	R&S (CMU200, SN:B23-03291)	Calibrated: 06/17/2009
Voltmeter	Keithley (2000, SN:1015843)	Calibrated: 05/01/2009
Synthesizer	Agilent (E8257C, SN:MY43321570)	Calibrated: 08/07/2009
Amplifier	Mini-Circuits (ZHL-42, SN:110405)	Calibrated: 07/29/2009
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibrated: 07/29/2009
Probe	Antennessa (SN:SN_1109_EP_100)	Calibrated: 04/16/2009
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibrated: N/A
Liquid	Antennessa	Calibrated: N/A
Measurement SW	OPEN SAR V2.1	Calibrated: N/A

C. SAR Measurement Results

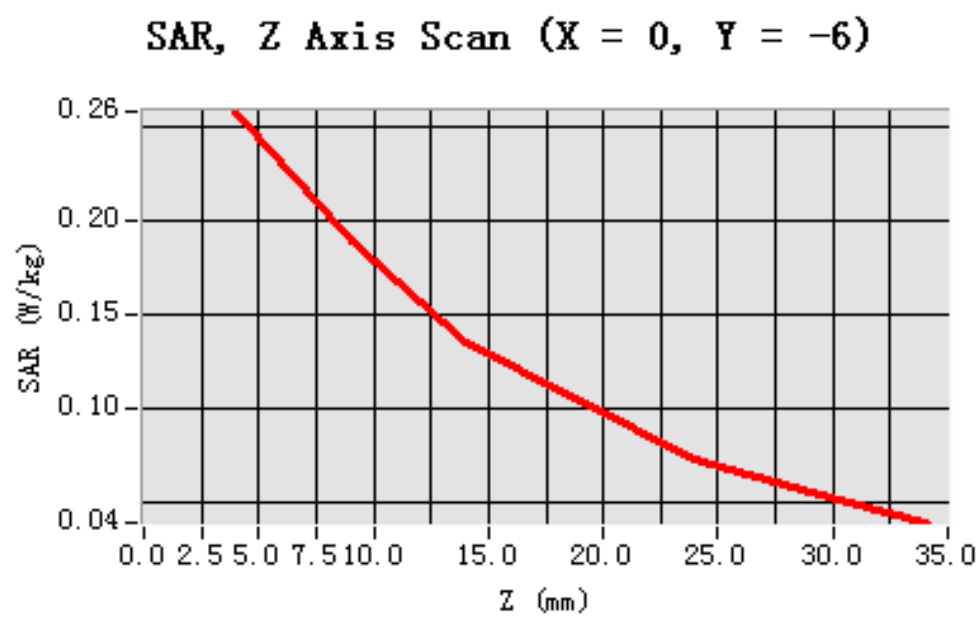
Frequency (MHz)	824.200012
Relative permittivity (real part)	56.551000
Relative permittivity (imaginary part)	21.671100
Conductivity (S/m)	0.979120
Variation (%)	-0.120000



Maximum location: X=0.00, Y=-6.00

SAR 10g (W/Kg)	0.188764
SAR 1g (W/Kg)	0.456182

Z Axis Scan



MEASUREMENT 2

Type: Phone measurement (Complete)

Date of measurement: 04/16/2010

Measurement duration: 14 minutes 29 seconds

Mobile Phone IMEI number:

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

Crest Factor: EDGE Duty cycle: 1:2

Medium parameters used: $f=836.6\text{MHz}$; $\sigma=55.52\text{mho/m}$; $\epsilon_r=0.98$; $\rho=1000\text{kg/m}^3$

Area Scan: 7 x 7 x 1

dx=15mm

dy=15mm

Zoom Scan: 5 x 5 x 7

dx=5mm

dy=5mm

dz=5mm

Z Axis Scan: 1 x 1 x 21

dx=20mm

dy=20mm

dz=5mm

A. Experimental conditions.

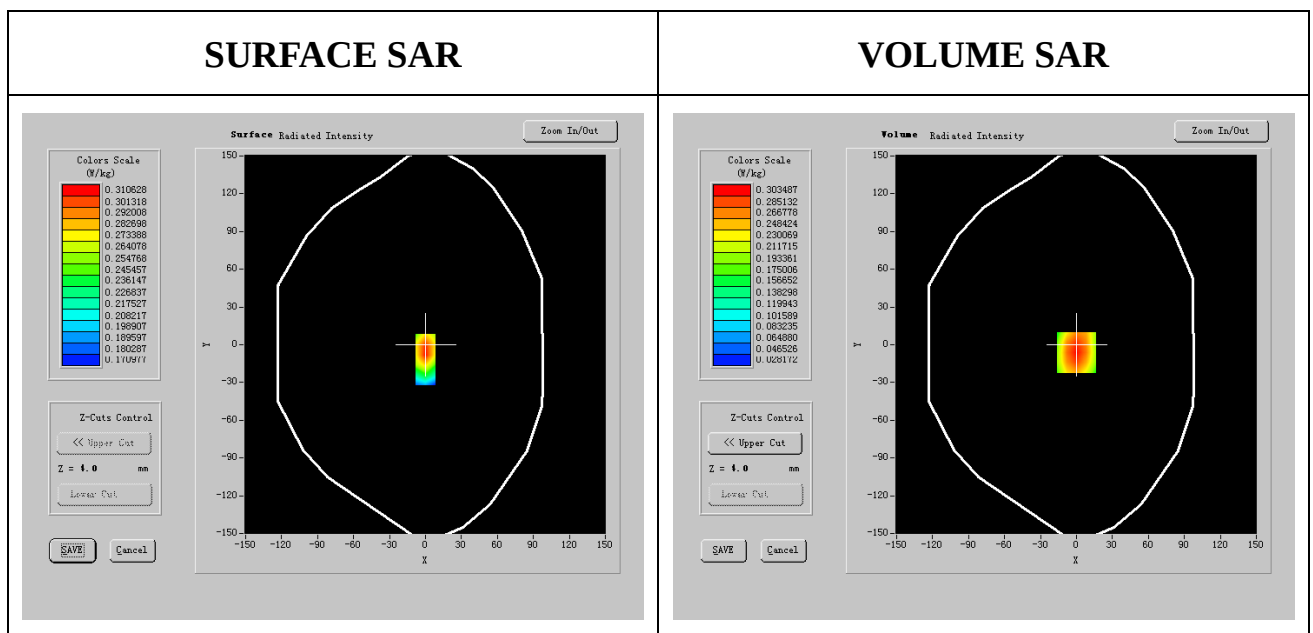
Phantom File	surf_sam_plan.txt, Adaptive 2 max
Phantom	Validation plane
Device Position	Body
Band	EDGE850
Channels	Middle
Signal	EDGE

B. Instrumentations.

PC	HP (Pentium(R) V3.06GHz, SN:375052-AA1)	Calibrated: N/A
Network Emulator	R&S (CMU200, SN:B23-03291)	Calibrated: 06/17/2009
Voltmeter	Keithley (2000, SN:1015843)	Calibrated: 05/01/2009
Synthesizer	Agilent (E8257C, SN:MY43321570)	Calibrated: 08/07/2009
Amplifier	Mini-Circuits (ZHL-42, SN:110405)	Calibrated: 07/29/2009
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibrated: 07/29/2009
Probe	Antennessa (SN:SN_1109_EP_100)	Calibrated: 04/16/2009
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibrated: N/A
Liquid	Antennessa	Calibrated: N/A
Measurement SW	OPEN SAR V2.1	Calibrated: N/A

C. SAR Measurement Results

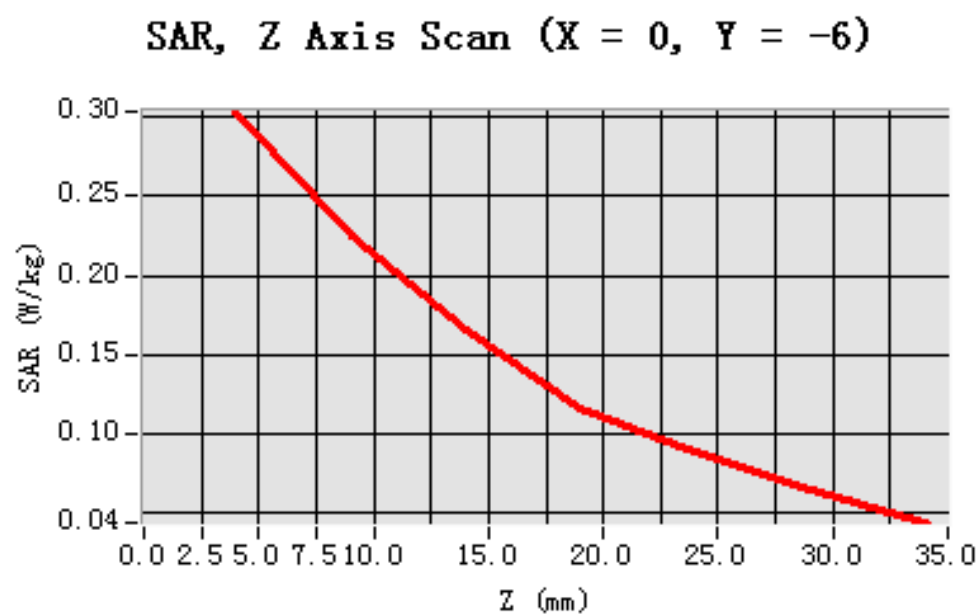
Frequency (MHz)	836.600004
Relative permittivity (real part)	55.521019
Relative permittivity (imaginary part)	21.832157
Conductivity (S/m)	0.980034
Variation (%)	-0.200000



Maximum location: X=0.00, Y=-6.00

SAR 10g (W/Kg)	0.197444
SAR 1g (W/Kg)	0.468971

Z Axis Scan



MEASUREMENT 3

Type: Phone measurement (Complete)

Date of measurement: 04/16/2010

Measurement duration: 14 minutes 29 seconds

Mobile Phone IMEI number:

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

Crest Factor: EDGE Duty cycle: 1:2

Medium parameters used: $f=848.8\text{MHz}$; $\sigma=55.52\text{mho/m}$; $\epsilon_r=0.98$; $\rho=1000\text{kg/m}^3$

Area Scan: 7 x 7 x 1 dx=15mm dy=15mm

Zoom Scan: 5 x 5 x 7 dx=5mm dy=5mm dz=5mm

Z Axis Scan: 1 x 1 x 21 dx=20mm dy=20mm dz=5mm

A. Experimental conditions.

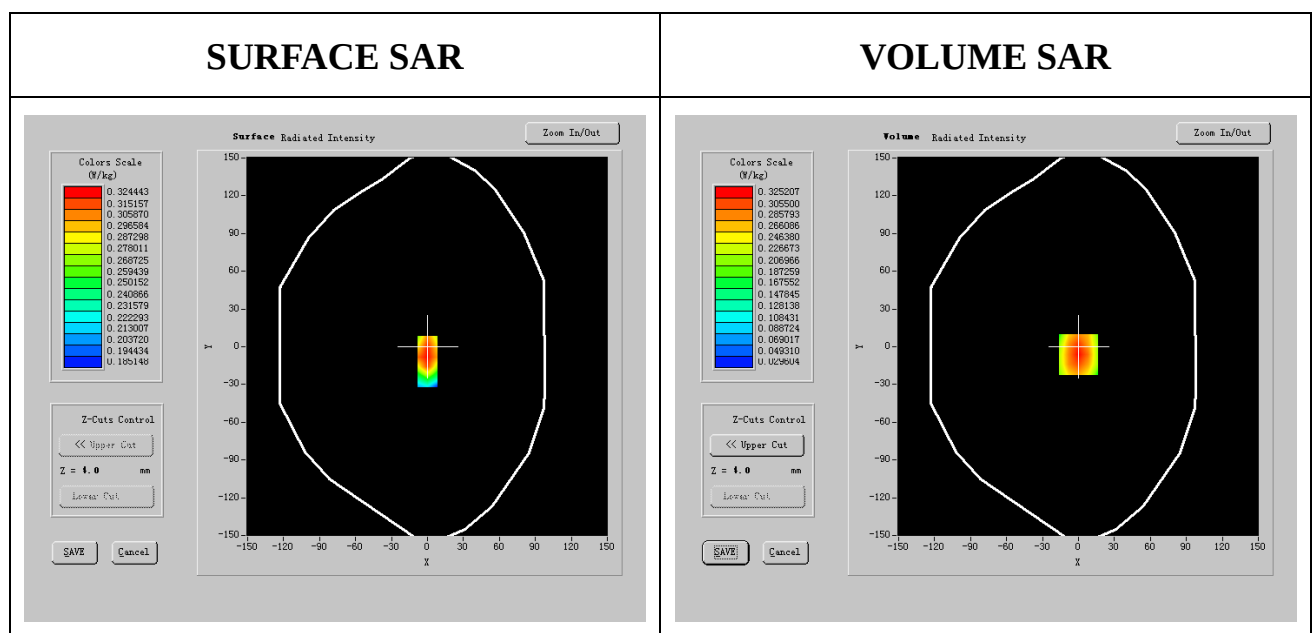
Phantom File	surf_sam_plan.txt, Adaptive 2 max
Phantom	Validation plane
Device Position	Body
Band	EDGE850
Channels	High
Signal	EDGE

B. Instrumentations.

PC	HP (Pentium(R) V3.06GHz, SN:375052-AA1)	Calibrated: N/A
Network Emulator	R&S (CMU200, SN:B23-03291)	Calibrated: 06/17/2009
Voltmeter	Keithley (2000, SN:1015843)	Calibrated: 05/01/2009
Synthetizer	Agilent (E8257C, SN:MY43321570)	Calibrated: 08/07/2009
Amplifier	Mini-Circuits (ZHL-42, SN:110405)	Calibrated: 07/29/2009
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibrated: 07/29/2009
Probe	Antennessa (SN:SN_1109_EP_100)	Calibrated: 04/16/2009
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibrated: N/A
Liquid	Antennessa	Calibrated: N/A
Measurement SW	OPEN SAR V2.1	Calibrated: N/A

C. SAR Measurement Results

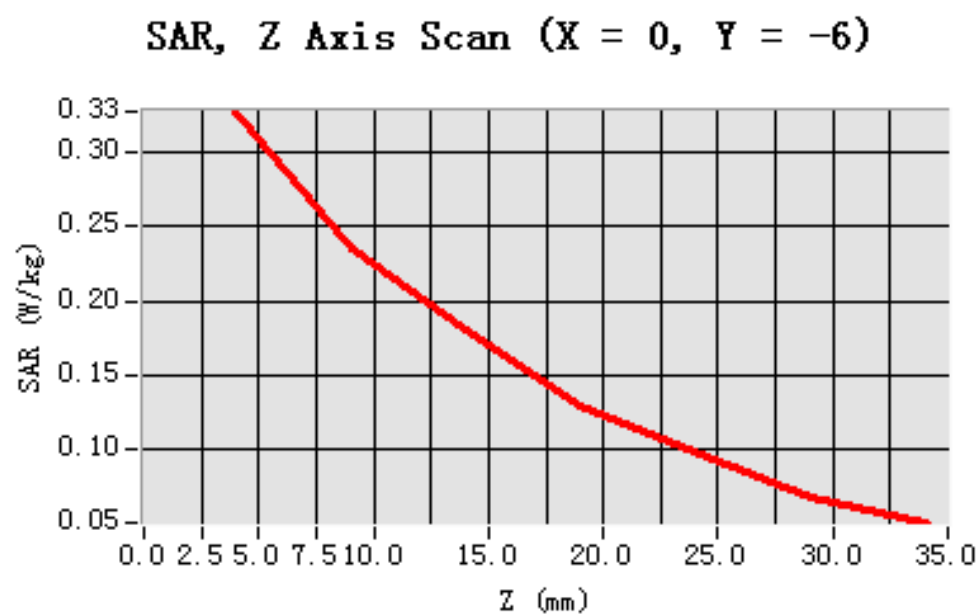
Frequency (MHz)	848.799001
Relative permittivity (real part)	55.522010
Relative permittivity (imaginary part)	21.803567
Conductivity (S/m)	0.979118
Variation (%)	-0.200000



Maximum location: X=0.00, Y=-6.00

SAR 10g (W/Kg)	0.192067
SAR 1g (W/Kg)	0.461177

Z Axis Scan



GPRS 1900

I. RESULTS

<u>TYPE</u>	<u>BAND</u>	<u>PARAMETERS</u>
<u>Noise</u>	--	--
<u>Validation</u>	--	--
<u>Phone</u>	EDGE1900	<u>Measurement 1:</u> Validation Plane with Body device position on Low Channel in EDGE mode <u>Measurement 2:</u> Validation Plane with Body device position on Middle Channel in EDGE mode <u>Measurement 3:</u> Validation Plane with Body device position on High Channel in EDGE mode

MEASUREMENT 1

Type: Phone measurement (Complete)

Date of measurement: 04/16/2010

Measurement duration: 6 minutes 46 seconds

Mobile Phone IMEI number: --

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

Crest Factor: GPRS Duty cycle: 1:2

Medium parameters used: $f=1850.2\text{MHz}$; $\sigma=52.87\text{mho/m}$; $\epsilon_r=1.50$; $\rho=1000\text{kg/m}^3$

Area Scan: 7 x 7 x 1 dx=15mm dy=15mm

Zoom Scan: 5 x 5 x 7 dx=5mm dy=5mm dz=5mm

Z Axis Scan: 1 x 1 x 21 dx=20mm dy=20mm dz=5mm

A. Experimental conditions.

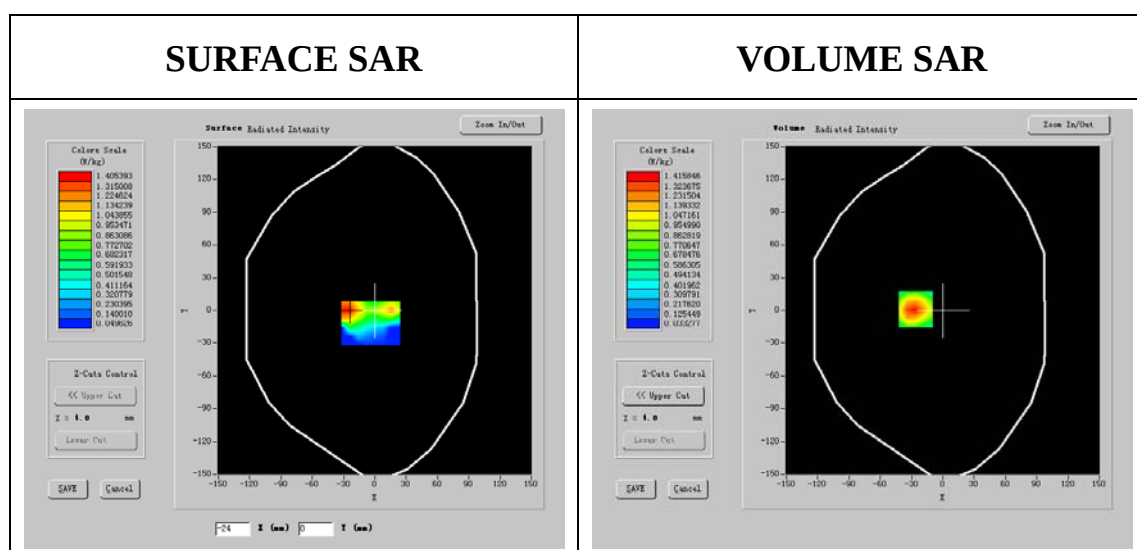
Phantom File	zinf15.txt, Adaptive 2 max
Phantom	Validation plane
Device Position	Body
Band	EDGE1900
Channels	Low
Signal	EDGE

B. Instrumentations.

PC	HP (Pentium(R) V3.06GHz, SN:375052-AA1)	Calibrated: N/A
Network Emulator	R&S (CMU200, SN:B23-03291)	Calibrated: 06/17/2009
Voltmeter	Keithley (2000, SN:1015843)	Calibrated: 05/01/2009
Synthetizer	Agilent (E8257C, SN:MY43321570)	Calibrated: 08/07/2009
Amplifier	Mini-Circuits (ZHL-42, SN:110405)	Calibrated: 07/29/2009
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibrated: 07/29/2009
Probe	Antennessa (SN:SN_1109_EP_100)	Calibrated: 04/16/2009
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibrated: N/A
Liquid	Antennessa	Calibrated: N/A
Measurement SW:	OPEN SAR V2.1	Calibrated: N/A

C. SAR Measurement Results

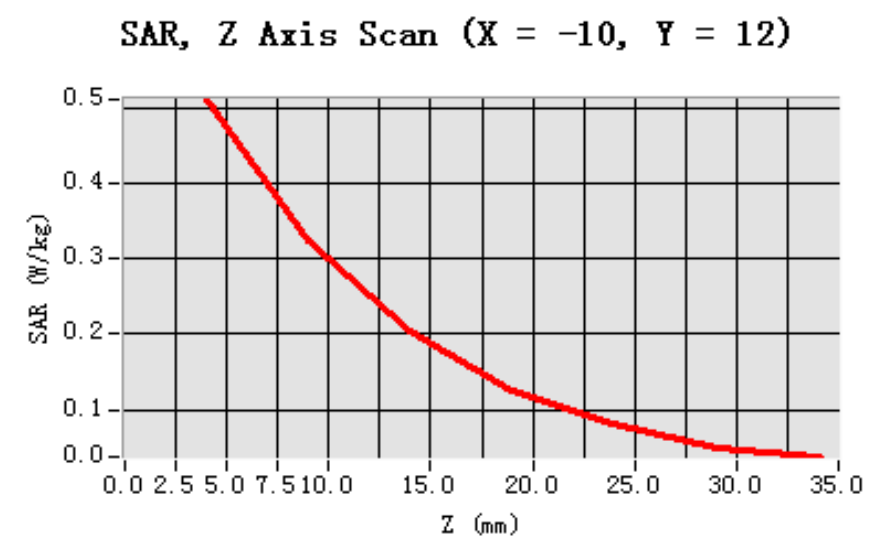
Frequency (MHz)	1850.199021
Relative permittivity (real part)	52.872100
Relative permittivity (imaginary part)	14.437202
Conductivity (S/m)	1.495327
Variation (%)	-0.500000



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

SAR 10g (W/Kg)	0.401389
SAR 1g (W/Kg)	0.624158

Z Axis Scan



MEASUREMENT 2

Type: Phone measurement (Complete)

Date of measurement: 04/16/2010

Measurement duration: 6 minutes 51 seconds

Mobile Phone IMEI number: --

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

Crest Factor: GPRS Duty cycle: 1:2

Medium parameters used: $f=1880.0\text{MHz}$; $\sigma=52.89\text{mho/m}$; $\epsilon_r=1.50$; $\rho=1000\text{kg/m}^3$

Area Scan: 7 x 7 x 1

dx=15mm

dy=15mm

Zoom Scan: 5 x 5 x 7

dx=5mm

dy=5mm

dz=5mm

Z Axis Scan: 1 x 1 x 21

dx=20mm

dy=20mm

dz=5mm

A. Experimental conditions.

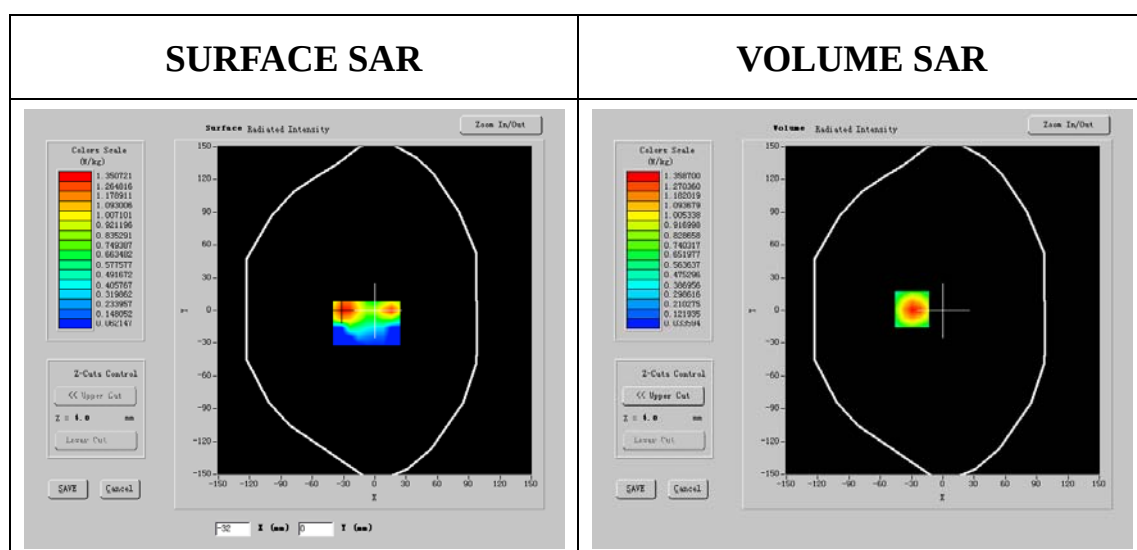
Phantom File	zinf15.txt, Adaptive 2 max
Phantom	Validation plane
Device Position	Body
Band	EDGE1900
Channels	Middle
Signal	EDGE

B. Instrumentations.

PC	HP (Pentium(R) V3.06GHz, SN:375052-AA1)	Calibrated: N/A
Network Emulator	R&S (CMU200, SN:B23-03291)	Calibrated: 06/17/2009
Voltmeter	Keithley (2000, SN:1015843)	Calibrated: 05/01/2009
Synthetizer	Agilent (E8257C, SN:MY43321570)	Calibrated: 08/07/2009
Amplifier	Mini-Circuits (ZHL-42, SN:110405)	Calibrated: 07/29/2009
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibrated: 07/29/2009
Probe	Antennessa (SN:SN_1109_EP_100)	Calibrated: 04/16/2009
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibrated: N/A
Liquid	Antennessa	Calibrated: N/A
Measurement SW:	OPEN SAR V2.1	Calibrated: N/A

C. SAR Measurement Results

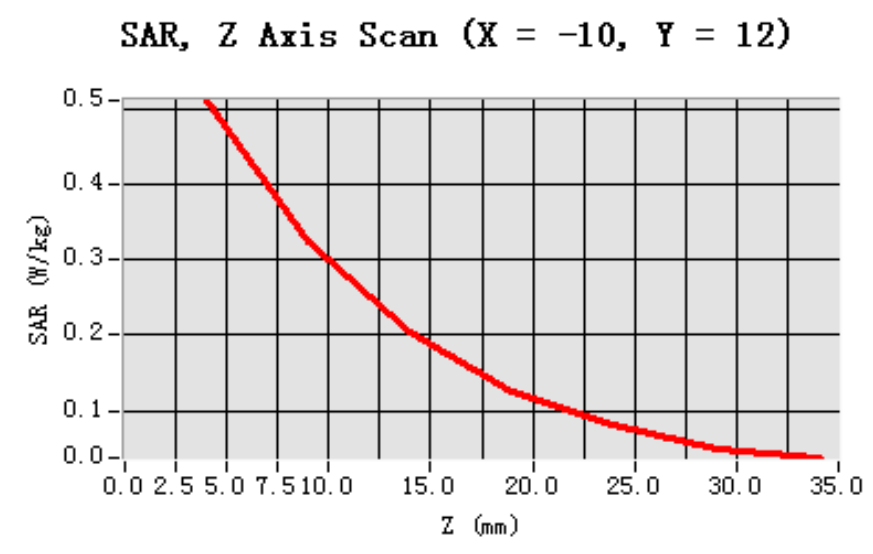
Frequency (MHz)	1880.000004
Relative permittivity (real part)	52.893647
Relative permittivity (imaginary part)	14.256331
Conductivity (S/m)	1.501247
Variation (%)	-1.000000



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

SAR 10g (W/Kg)	0.425113
SAR 1g (W/Kg)	0.643089

Z Axis Scan



MEASUREMENT 3

Type: Phone measurement (Complete)

Date of measurement: 04/16/2010

Measurement duration: 6 minutes 21 seconds

Mobile Phone IMEI number: --

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

Crest Factor: GPRS Duty cycle: 1:2

Medium parameters used: $f=1910.0\text{MHz}$; $\sigma=52.91\text{mho/m}$; $\epsilon_r=1.50$; $\rho=1000\text{kg/m}^3$

Area Scan: 7 x 7 x 1 dx=15mm dy=15mm

Zoom Scan: 5 x 5 x 7 dx=5mm dy=5mm dz=5mm

Z Axis Scan: 1 x 1 x 21 dx=20mm dy=20mm dz=5mm

A. Experimental conditions.

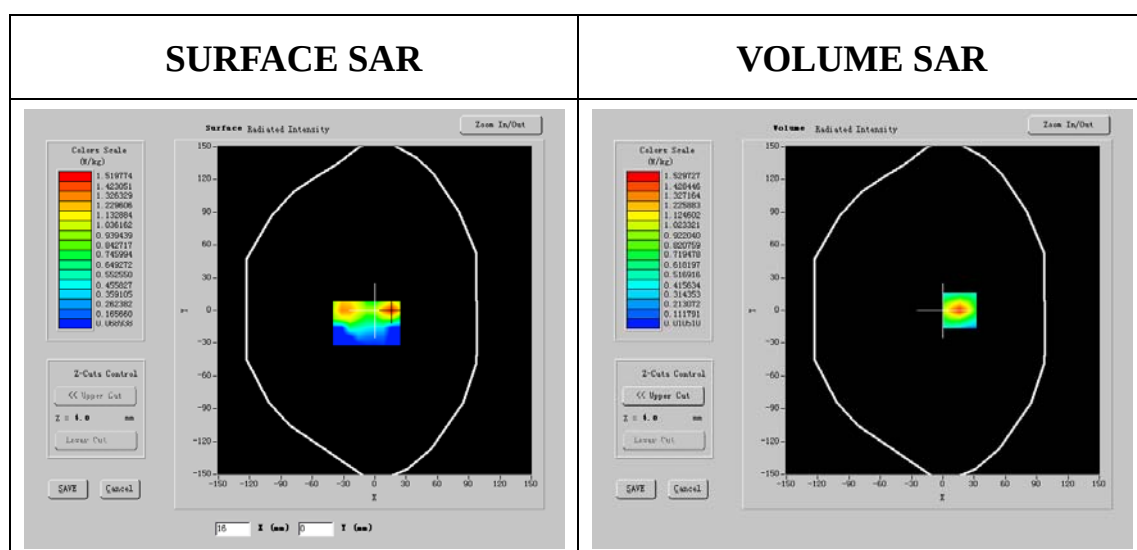
Phantom File	zinf15.txt, Adaptive 2 max
Phantom	Validation plane
Device Position	Body
Band	EDGE1900
Channels	High
Signal	EDGE

B. Instrumentations.

PC	HP (Pentium(R) V3.06GHz, SN:375052-AA1)	Calibrated: N/A
Network Emulator	R&S (CMU200, SN:B23-03291)	Calibrated: 06/17/2009
Voltmeter	Keithley (2000, SN:1015843)	Calibrated: 05/01/2009
Synthetizer	Agilent (E8257C, SN:MY43321570)	Calibrated: 08/07/2009
Amplifier	Mini-Circuits (ZHL-42, SN:110405)	Calibrated: 07/29/2009
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibrated: 07/29/2009
Probe	Antennessa (SN:SN_1109_EP_100)	Calibrated: 04/16/2009
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibrated: N/A
Liquid	Antennessa	Calibrated: N/A
Measurement SW:	OPEN SAR V2.1	Calibrated: N/A

C. SAR Measurement Results

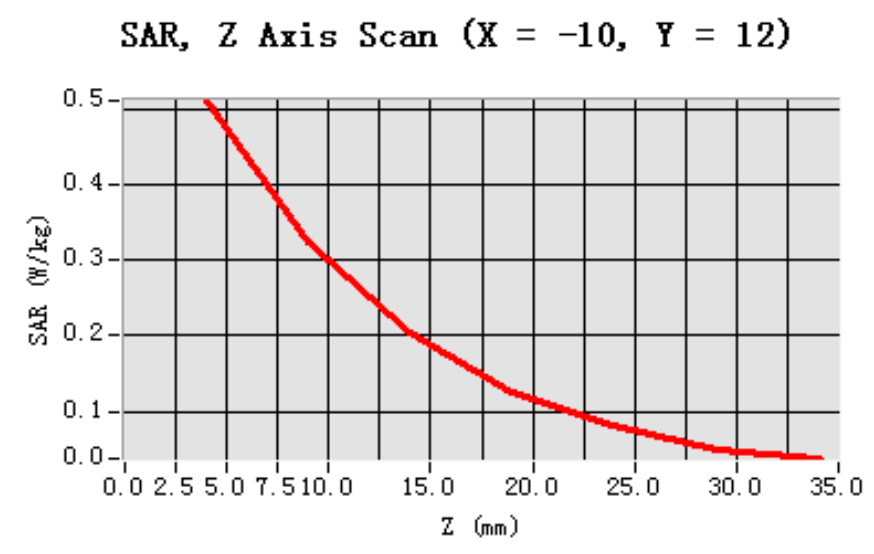
Frequency (MHz)	1910.029036
Relative permittivity (real part)	52.906751
Relative permittivity (imaginary part)	14.302319
Conductivity (S/m)	1.5002258
Variation (%)	-0.130000



Maximum location: X=2.00, Y=9.00

SAR 10g (W/Kg)	0.411570
SAR 1g (W/Kg)	0.635497

Z Axis Scan



802.11 B

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 802.11b mode <u>Measurement 2:</u> Right Head with Cheek device position on Middle Channel in 802.11b mode <u>Measurement 3:</u> Right Head with Cheek device position on High Channel in 802.11b mode <u>Measurement 4:</u> Right Head with Tilt device position on Low Channel in 802.11b mode <u>Measurement 5:</u> Right Head with Tilt device position on Middle Channel in 802.11b mode <u>Measurement 6:</u> Right Head with Tilt device position on High Channel in 802.11b mode <u>Measurement 7:</u> Left Head with Cheek device position on Low Channel in 802.11b mode <u>Measurement 8:</u> Left Head with Cheek device position on Middle Channel in 802.11b mode <u>Measurement 9:</u> Left Head with Cheek device position on High Channel in 802.11b mode <u>Measurement 10:</u> Left Head with Tilt device position on Low Channel in 802.11b mode <u>Measurement 11:</u> Left Head with Tilt device position on Middle Channel in 802.11b mode <u>Measurement 12:</u> Left Head with Tilt device position on High Channel in 802.11b mode <u>Measurement 13:</u> Validation Plane with Body device position on Low Channel in 802.11b mode <u>Measurement 14:</u> Validation Plane with Body device position on Middle Channel in 802.11b mode <u>Measurement 15:</u> Validation Plane with Body device position on High Channel in 802.11b mode

MEASUREMENT 1

Type: Phone measurement (Complete)

Date of measurement: 04/16/2010

Measurement duration: 15 minutes 3 seconds

Mobile Phone IMEI number: --

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

Crest Factor: WIFI Duty cycle: 1:1

Medium parameters used: $f=2412\text{MHz}$; $\sigma=40.41\text{mho/m}$; $\epsilon_r=1.86$; $\rho=1000\text{kg/m}^3$

Area Scan: 7 x 7 x 1 dx=15mm dy=15mm

Zoom Scan: 5 x 5 x 7 dx=5mm dy=5mm dz=5mm

Z Axis Scan: 1 x 1 x 21 dx=20mm dy=20mm dz=5mm

A. Experimental conditions.

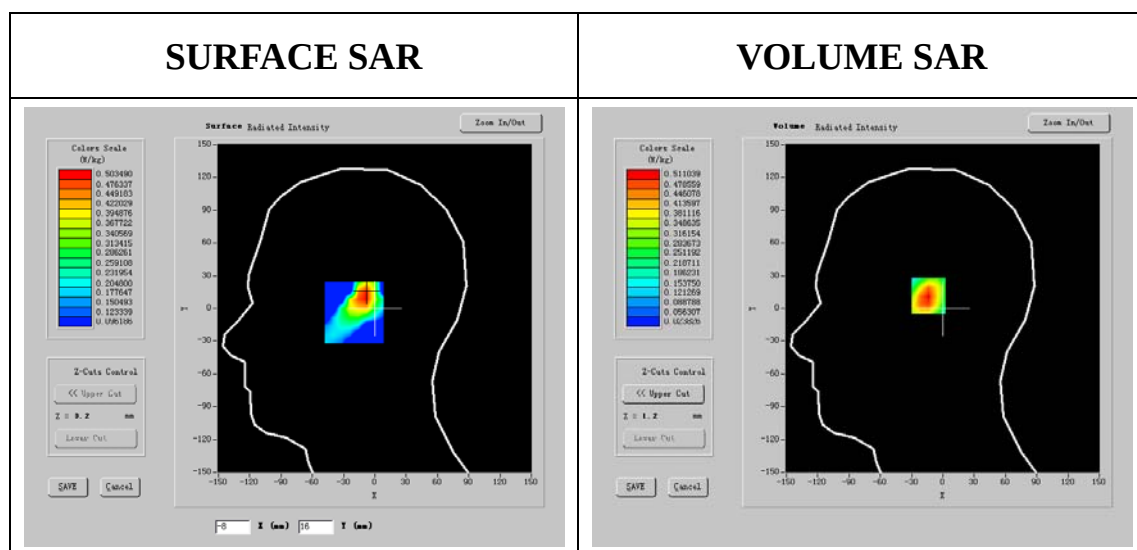
Phantom File	zinf15.txt, Adaptive 2 max
Phantom	Right head
Device Position	Cheek
Band	802.11b
Channels	Low
Signal	wireless

B. Instrumentations.

PC	HP (Pentium(R) V3.06GHz, SN:375052-AA1)	Calibrated: N/A
Network Emulator	R&S (CMU200, SN:B23-03291)	Calibrated: 06/17/2009
Voltmeter	Keithley (2000, SN:1015843)	Calibrated: 05/01/2009
Synthetizer	Agilent (E8257C, SN:MY43321570)	Calibrated: 08/07/2009
Amplifier	Mini-Circuits (ZHL-42, SN:110405)	Calibrated: 07/29/2009
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibrated: 07/29/2009
Probe	Antennessa (SN:SN_1109_EP_100)	Calibrated: 04/16/2009
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibrated: N/A
Liquid	Antennessa	Calibrated: N/A
Measurement SW	OPEN SAR V2.1	Calibrated: N/A

C. SAR Measurement Results

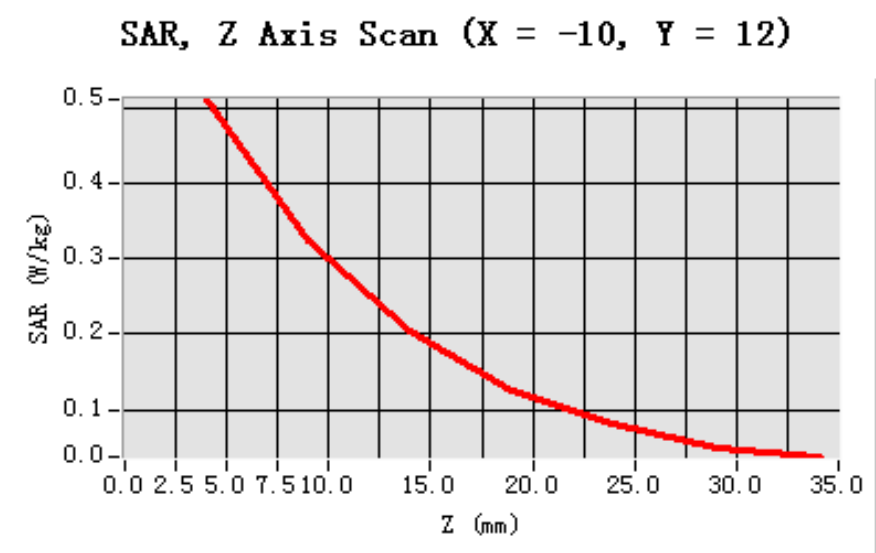
Frequency (MHz)	2412.0000
Relative permittivity (real part)	40.405521
Relative permittivity (imaginary part)	13.349850
Conductivity (S/m)	1.862061
Variation (%)	-1.200000



Maximum location: X=-10.00, Y=12.00

SAR 10g (W/Kg)	0.067844
SAR 1g (W/Kg)	0.112470

Z Axis Scan



MEASUREMENT 2

Type: Phone measurement (Complete)

Date of measurement: 04/16/2010

Measurement duration: 15 minutes 3 seconds

Mobile Phone IMEI number: --

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

Crest Factor: WIFI Duty cycle: 1:1

Medium parameters used: $f=2437\text{MHz}$; $\sigma=40.41\text{mho/m}$; $\epsilon_r=1.86$; $\rho=1000\text{kg/m}^3$

Area Scan: 7 x 7 x 1 dx=15mm dy=15mm

Zoom Scan: 5 x 5 x 7 dx=5mm dy=5mm dz=5mm

Z Axis Scan: 1 x 1 x 21 dx=20mm dy=20mm dz=5mm

A. Experimental conditions.

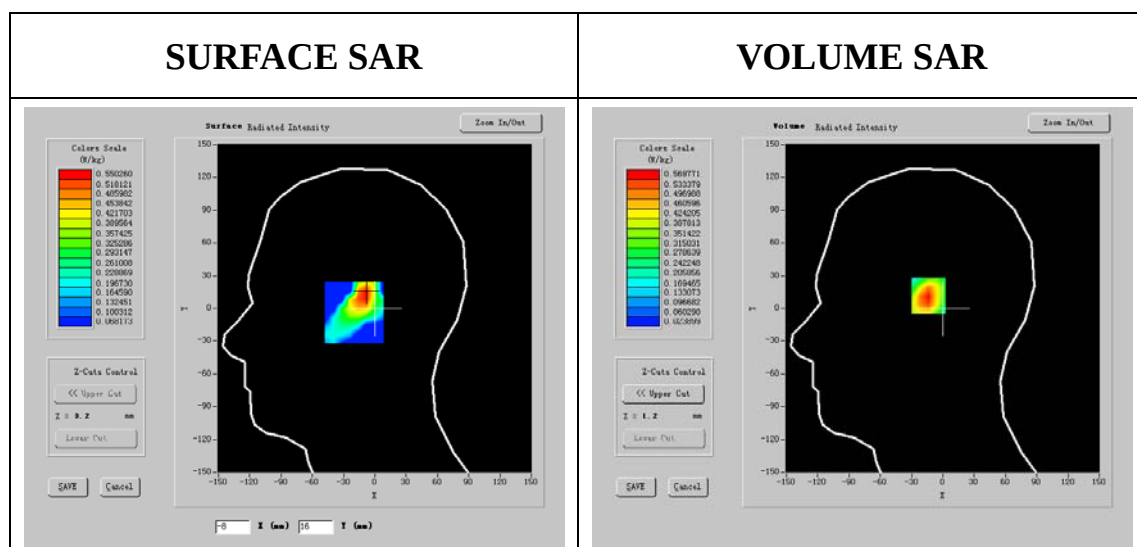
Phantom File	zinf15.txt, Adaptive 2 max
Phantom	Right head
Device Position	Cheek
Band	802.11b
Channels	Middle
Signal	wireless

B. Instrumentations.

PC	HP (Pentium(R) V3.06GHz, SN:375052-AA1)	Calibrated: N/A
Network Emulator	R&S (CMU200, SN:B23-03291)	Calibrated: 06/17/2009
Voltmeter	Keithley (2000, SN:1015843)	Calibrated: 05/01/2009
Synthetizer	Agilent (E8257C, SN:MY43321570)	Calibrated: 08/07/2009
Amplifier	Mini-Circuits (ZHL-42, SN:110405)	Calibrated: 07/29/2009
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibrated: 07/29/2009
Probe	Antennessa (SN:SN_1109_EP_100)	Calibrated: 04/16/2009
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibrated: N/A
Liquid	Antennessa	Calibrated: N/A
Measurement SW	OPEN SAR V2.1	Calibrated: N/A

C. SAR Measurement Results

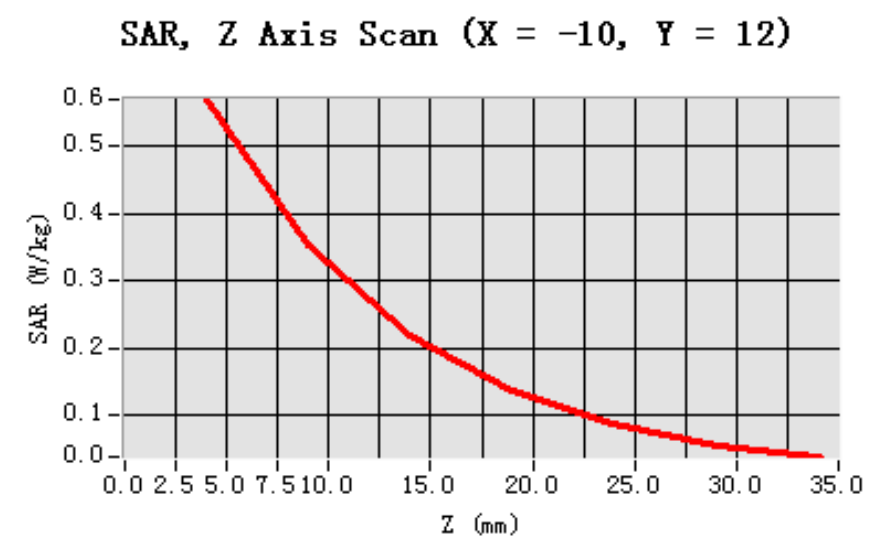
Frequency (MHz)	2437.000000
Relative permittivity (real part)	40.411368
Relative permittivity (imaginary part)	13.348910
Conductivity (S/m)	1.856671
Variation (%)	-0.300000



Maximum location: X=-10.00, Y=12.00

SAR 10g (W/Kg)	0.073269
SAR 1g (W/Kg)	0.130466

Z Axis Scan



MEASUREMENT 3

Type: Phone measurement (Complete)

Date of measurement: 04/16/2010

Measurement duration: 15 minutes 3 seconds

Mobile Phone IMEI number: --

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

Crest Factor: WIFI Duty cycle: 1:1

Medium parameters used: $f=2462\text{MHz}$; $\sigma=40.41\text{mho/m}$; $\epsilon_r=1.86$; $\rho=1000\text{kg/m}^3$

Area Scan: 7 x 7 x 1 dx=15mm dy=15mm

Zoom Scan: 5 x 5 x 7 dx=5mm dy=5mm dz=5mm

Z Axis Scan: 1 x 1 x 21 dx=20mm dy=20mm dz=5mm

A. Experimental conditions.

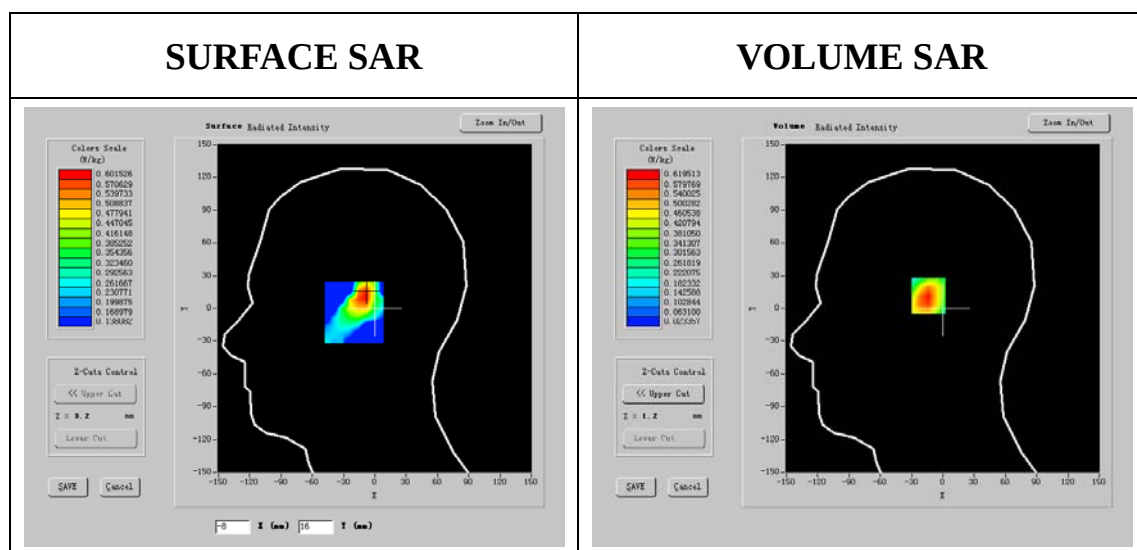
Phantom File	zinf15.txt, Adaptive 2 max
Phantom	Right head
Device Position	Cheek
Band	802.11b
Channels	High
Signal	wireless

B. Instrumentations.

PC	HP (Pentium(R) V3.06GHz, SN:375052-AA1)	Calibrated: N/A
Network Emulator	R&S (CMU200, SN:B23-03291)	Calibrated: 06/17/2009
Voltmeter	Keithley (2000, SN:1015843)	Calibrated: 05/01/2009
Synthetizer	Agilent (E8257C, SN:MY43321570)	Calibrated: 08/07/2009
Amplifier	Mini-Circuits (ZHL-42, SN:110405)	Calibrated: 07/29/2009
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibrated: 07/29/2009
Probe	Antennessa (SN:SN_1109_EP_100)	Calibrated: 04/16/2009
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibrated: N/A
Liquid	Antennessa	Calibrated: N/A
Measurement SW	OPEN SAR V2.1	Calibrated: N/A

C. SAR Measurement Results

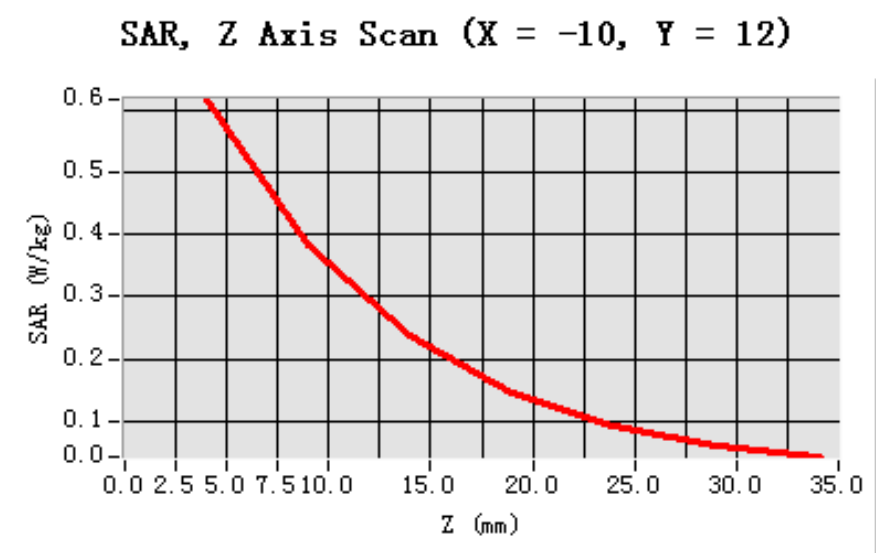
Frequency (MHz)	2462.000000
Relative permittivity (real part)	40.413362
Relative permittivity (imaginary part)	13.350612
Conductivity (S/m)	1.858677
Variation (%)	-0.300000



Maximum location: X=-10.00, Y=12.00

SAR 10g (W/Kg)	0.062315
SAR 1g (W/Kg)	0.123001

Z Axis Scan



MEASUREMENT 4

Type: Phone measurement (Complete)

Date of measurement: 04/16/2010

Measurement duration: 14 minutes 27 seconds

Mobile Phone IMEI number: --

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

Crest Factor: WIFI Duty cycle: 1:1

Medium parameters used: $f=2412\text{MHz}$; $\sigma=40.41\text{mho/m}$; $\epsilon_r=1.86$; $\rho=1000\text{kg/m}^3$

Area Scan: 7 x 7 x 1 dx=15mm dy=15mm

Zoom Scan: 5 x 5 x 7 dx=5mm dy=5mm dz=5mm

Z Axis Scan: 1 x 1 x 21 dx=20mm dy=20mm dz=5mm

A. Experimental conditions.

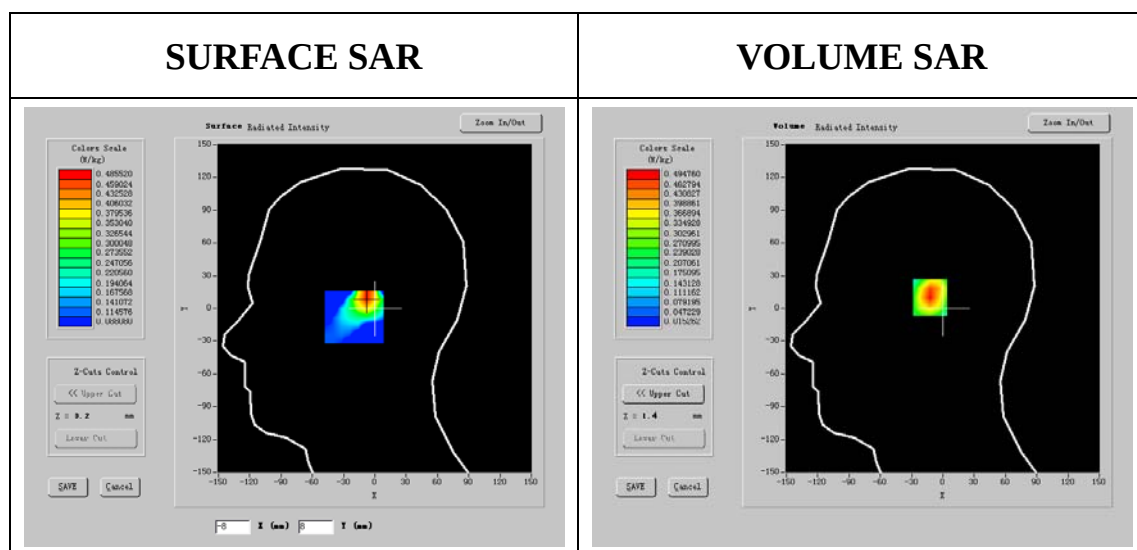
Phantom File	zinf15.txt, Adaptive 2 max
Phantom	Right head
Device Position	Tilt
Band	802.11b
Channels	Low
Signal	wireless

B. Instrumentations.

PC	HP (Pentium(R) V3.06GHz, SN:375052-AA1)	Calibrated: N/A
Network Emulator	R&S (CMU200, SN:B23-03291)	Calibrated: 06/17/2009
Voltmeter	Keithley (2000, SN:1015843)	Calibrated: 05/01/2009
Synthetizer	Agilent (E8257C, SN:MY43321570)	Calibrated: 08/07/2009
Amplifier	Mini-Circuits (ZHL-42, SN:110405)	Calibrated: 07/29/2009
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibrated: 07/29/2009
Probe	Antennessa (SN:SN_1109_EP_100)	Calibrated: 04/16/2009
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibrated: N/A
Liquid	Antennessa	Calibrated: N/A
Measurement SW:	OPEN SAR V2.1	Calibrated: N/A

C. SAR Measurement Results

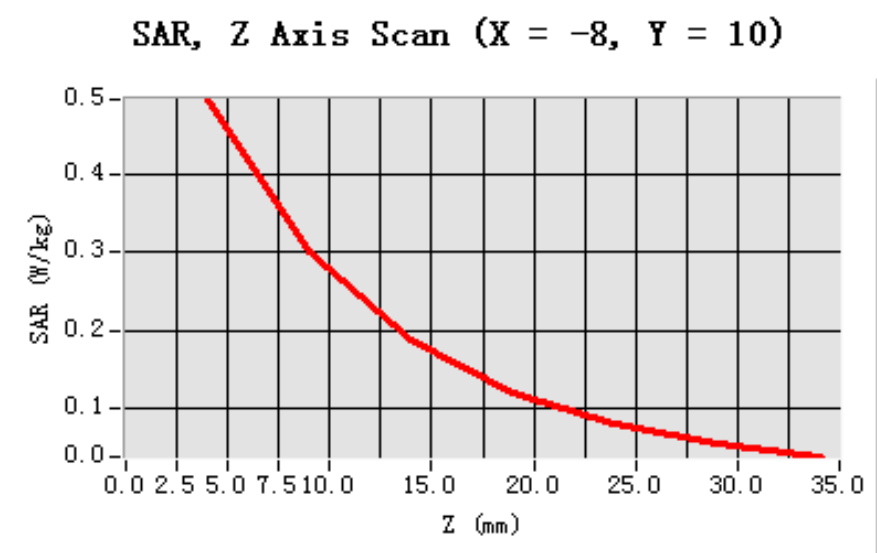
Frequency (MHz)	2412.000000
Relative permittivity (real part)	40.413006
Relative permittivity (imaginary part)	13.299880
Conductivity (S/m)	1.86024
Variation (%)	-1.400000



Maximum location: X=-8.00, Y=10.00

SAR 10g (W/Kg)	0.081333
SAR 1g (W/Kg)	0.140058

Z Axis Scan



MEASUREMENT 5

Type: Phone measurement (Complete)

Date of measurement: 04/16/2010

Measurement duration: 14 minutes 27 seconds

Mobile Phone IMEI number: --

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

Crest Factor: WIFI Duty cycle: 1:1

Medium parameters used: $f=2437\text{MHz}$; $\sigma=40.41\text{mho/m}$; $\epsilon_r=1.86$; $\rho=1000\text{kg/m}^3$

Area Scan: 7 x 7 x 1 dx=15mm dy=15mm

Zoom Scan: 5 x 5 x 7 dx=5mm dy=5mm dz=5mm

Z Axis Scan: 1 x 1 x 21 dx=20mm dy=20mm dz=5mm

A. Experimental conditions.

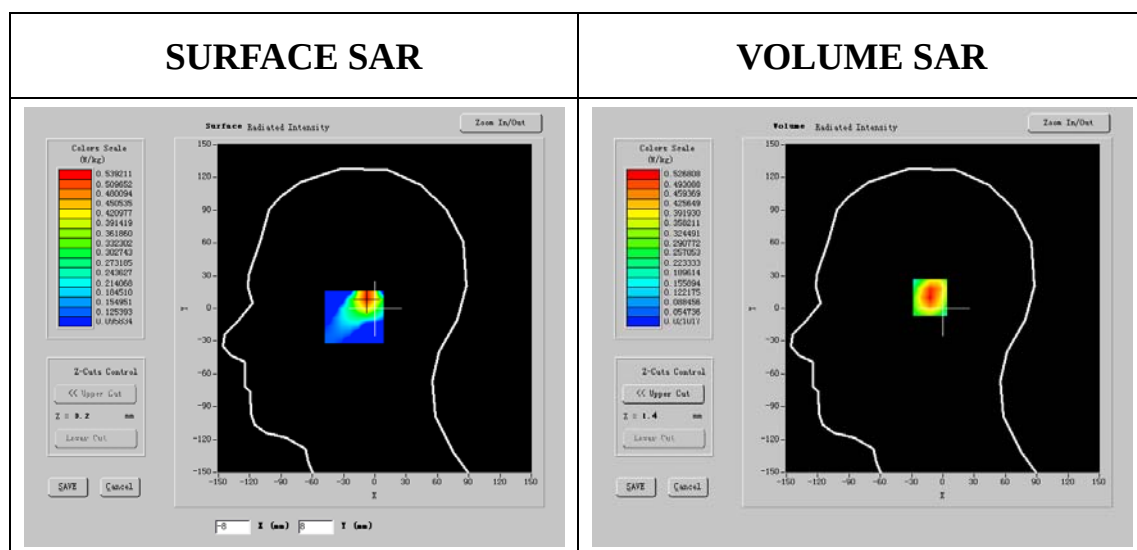
Phantom File	zinf15.txt, Adaptive 2 max
Phantom	Right head
Device Position	Tilt
Band	802.11b
Channels	Middle
Signal	wireless

B. Instrumentations.

PC	HP (Pentium(R) V3.06GHz, SN:375052-AA1)	Calibrated: N/A
Network Emulator	R&S (CMU200, SN:B23-03291)	Calibrated: 06/17/2009
Voltmeter	Keithley (2000, SN:1015843)	Calibrated: 05/01/2009
Synthetizer	Agilent (E8257C, SN:MY43321570)	Calibrated: 08/07/2009
Amplifier	Mini-Circuits (ZHL-42, SN:110405)	Calibrated: 07/29/2009
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibrated: 07/29/2009
Probe	Antennessa (SN:SN_1109_EP_100)	Calibrated: 04/16/2009
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibrated: N/A
Liquid	Antennessa	Calibrated: N/A
Measurement SW:	OPEN SAR V2.1	Calibrated: N/A

C. SAR Measurement Results

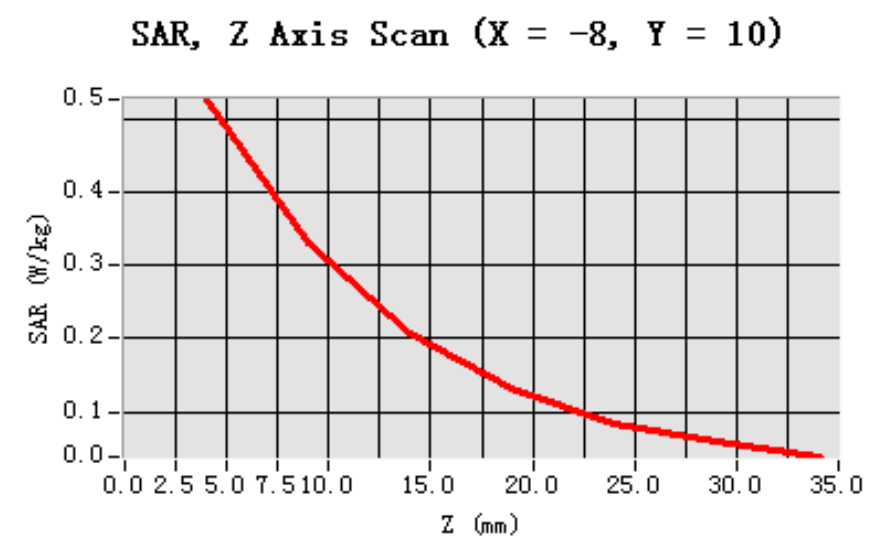
Frequency (MHz)	2437.000000
Relative permittivity (real part)	40.412031
Relative permittivity (imaginary part)	13.346801
Conductivity (S/m)	1.860344
Variation (%)	-0.450000



Maximum location: X=-8.00, Y=10.00

SAR 10g (W/Kg)	0.093211
SAR 1g (W/Kg)	0.148364

Z Axis Scan



MEASUREMENT 6

Type: Phone measurement (Complete)

Date of measurement: 04/16/2010

Measurement duration: 14 minutes 27 seconds

Mobile Phone IMEI number: --

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

Crest Factor: WIFI Duty cycle: 1:1

Medium parameters used: $f=2462\text{MHz}$; $\sigma=40.41\text{mho/m}$; $\epsilon_r=1.86$; $\rho=1000\text{kg/m}^3$

Area Scan: 7 x 7 x 1 dx=15mm dy=15mm

Zoom Scan: 5 x 5 x 7 dx=5mm dy=5mm dz=5mm

Z Axis Scan: 1 x 1 x 21 dx=20mm dy=20mm dz=5mm

A. Experimental conditions.

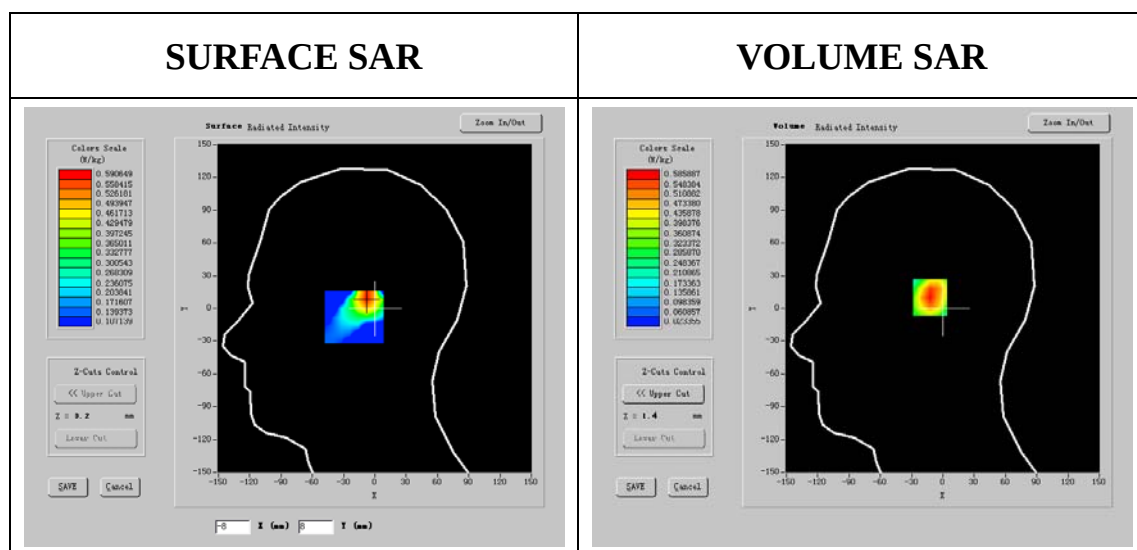
Phantom File	zinf15.txt, Adaptive 2 max
Phantom	Right head
Device Position	Tilt
Band	802.11b
Channels	High
Signal	wireless

B. Instrumentations.

PC	HP (Pentium(R) V3.06GHz, SN:375052-AA1)	Calibrated: N/A
Network Emulator	R&S (CMU200, SN:B23-03291)	Calibrated: 06/17/2009
Voltmeter	Keithley (2000, SN:1015843)	Calibrated: 05/01/2009
Synthetizer	Agilent (E8257C, SN:MY43321570)	Calibrated: 08/07/2009
Amplifier	Mini-Circuits (ZHL-42, SN:110405)	Calibrated: 07/29/2009
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibrated: 07/29/2009
Probe	Antennessa (SN:SN_1109_EP_100)	Calibrated: 04/16/2009
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibrated: N/A
Liquid	Antennessa	Calibrated: N/A
Measurement SW:	OPEN SAR V2.1	Calibrated: N/A

C. SAR Measurement Results

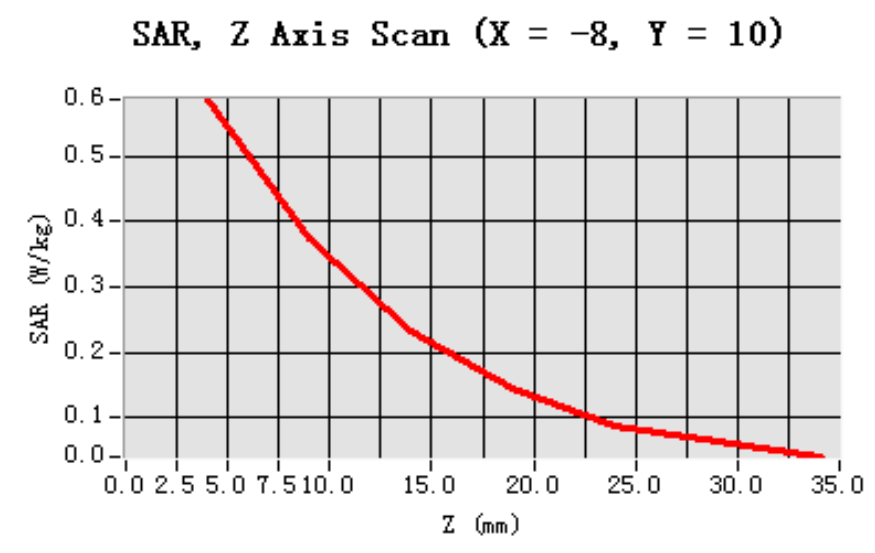
Frequency (MHz)	2462.000000
Relative permittivity (real part)	40.413000
Relative permittivity (imaginary part)	13.353144
Conductivity (S/m)	1.860050
Variation (%)	-1.500000



Maximum location: X=-8.00, Y=10.00

SAR 10g (W/Kg)	0.085112
SAR 1g (W/Kg)	0.143260

Z Axis Scan



MEASUREMENT 7

Type: Phone measurement (Complete)

Date of measurement: 04/16/2010

Measurement duration: 14 minutes 27 seconds

Mobile Phone IMEI number: --

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

Crest Factor: WIFI Duty cycle: 1:1

Medium parameters used: $f=2412\text{MHz}$; $\sigma=40.41\text{mho/m}$; $\epsilon_r=1.87$; $\rho=1000\text{kg/m}^3$

Area Scan: 7 x 7 x 1 dx=15mm dy=15mm

Zoom Scan: 5 x 5 x 7 dx=5mm dy=5mm dz=5mm

Z Axis Scan: 1 x 1 x 21 dx=20mm dy=20mm dz=5mm

A. Experimental conditions.

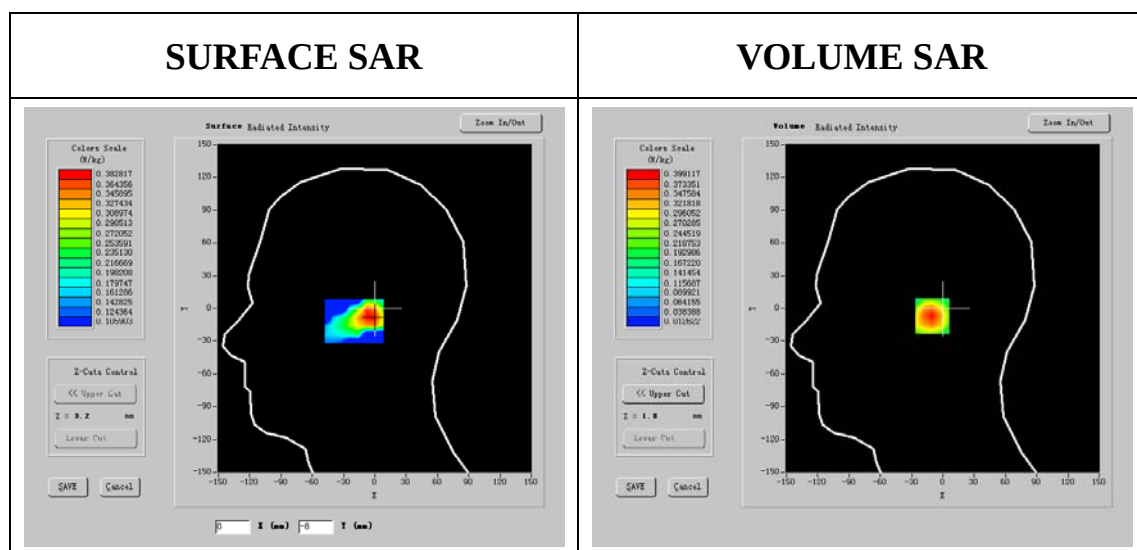
Phantom File	zinf15.txt, Adaptive 2 max
Phantom	Left head
Device Position	Cheek
Band	802.11b
Channels	Low
Signal	wireless

B. Instrumentations.

PC	HP (Pentium(R) V3.06GHz, SN:375052-AA1)	Calibrated: N/A
Network Emulator	R&S (CMU200, SN:B23-03291)	Calibrated: 06/17/2009
Voltmeter	Keithley (2000, SN:1015843)	Calibrated: 05/01/2009
Synthetizer	Agilent (E8257C, SN:MY43321570)	Calibrated: 08/07/2009
Amplifier	Mini-Circuits (ZHL-42, SN:110405)	Calibrated: 07/29/2009
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibrated: 07/29/2009
Probe	Antennessa (SN:SN_1109_EP_100)	Calibrated: 04/16/2009
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibrated: N/A
Liquid	Antennessa	Calibrated: N/A
Measurement SW	OPEN SAR V2.1	Calibrated: N/A

C. SAR Measurement Results

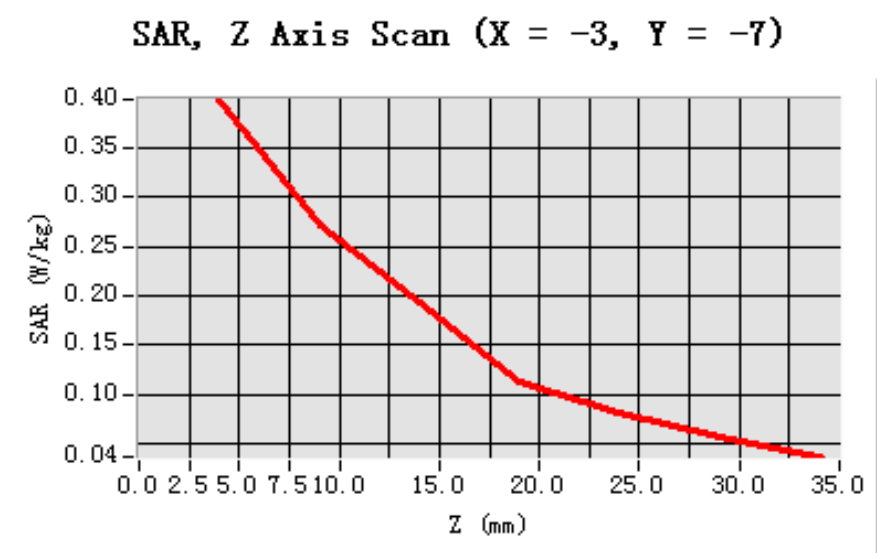
Frequency (MHz)	2412.000000
Relative permittivity (real part)	40.411885
Relative permittivity (imaginary part)	13.360125
Conductivity (S/m)	1.870004
Variation (%)	0.300000



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

SAR 10g (W/Kg)	0.103664
SAR 1g (W/Kg)	0.184330

Z Axis Scan



MEASUREMENT 8

Type: Phone measurement (Complete)

Date of measurement: 04/16/2010

Measurement duration: 14 minutes 27 seconds

Mobile Phone IMEI number: --

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

Crest Factor: WIFI Duty cycle: 1:1

Medium parameters used: $f=2437\text{MHz}$; $\sigma=40.42\text{mho/m}$; $\epsilon_r=1.85$; $\rho=1000\text{kg/m}^3$

Area Scan: 7 x 7 x 1 dx=15mm dy=15mm

Zoom Scan: 5 x 5 x 7 dx=5mm dy=5mm dz=5mm

Z Axis Scan: 1 x 1 x 21 dx=20mm dy=20mm dz=5mm

A. Experimental conditions.

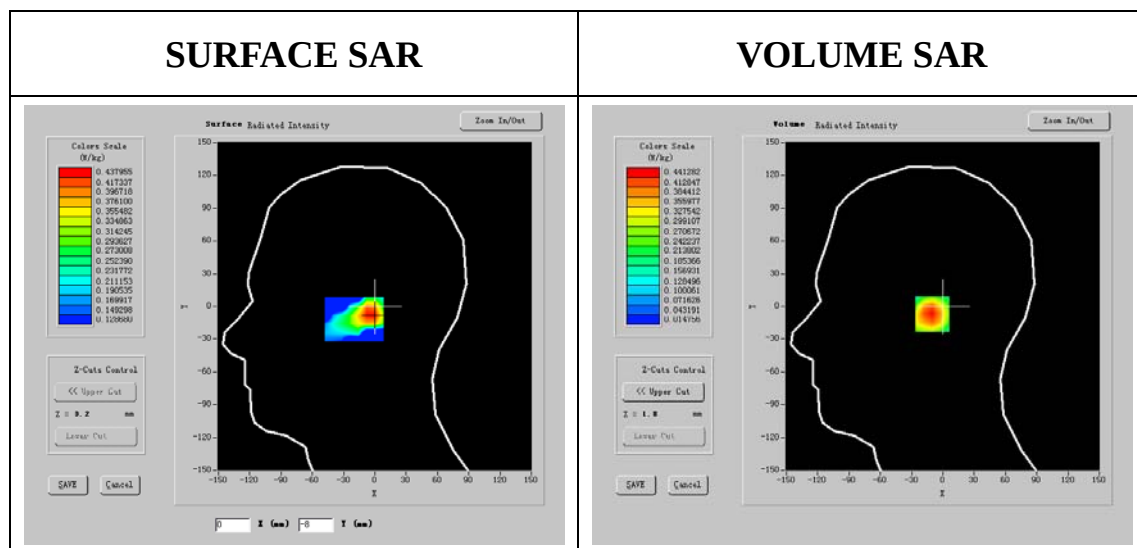
Phantom File	zinf15.txt, Adaptive 2 max
Phantom	Left head
Device Position	Cheek
Band	802.11b
Channels	Middle
Signal	wireless

B. Instrumentations.

PC	HP (Pentium(R) V3.06GHz, SN:375052-AA1)	Calibrated: N/A
Network Emulator	R&S (CMU200, SN:B23-03291)	Calibrated: 06/17/2009
Voltmeter	Keithley (2000, SN:1015843)	Calibrated: 05/01/2009
Synthetizer	Agilent (E8257C, SN:MY43321570)	Calibrated: 08/07/2009
Amplifier	Mini-Circuits (ZHL-42, SN:110405)	Calibrated: 07/29/2009
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibrated: 07/29/2009
Probe	Antennessa (SN:SN_1109_EP_100)	Calibrated: 04/16/2009
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibrated: N/A
Liquid	Antennessa	Calibrated: N/A
Measurement SW	OPEN SAR V2.1	Calibrated: N/A

C. SAR Measurement Results

Frequency (MHz)	2437.000000
Relative permittivity (real part)	40.423570
Relative permittivity (imaginary part)	13.361181
Conductivity (S/m)	1.853301
Variation (%)	1.400000

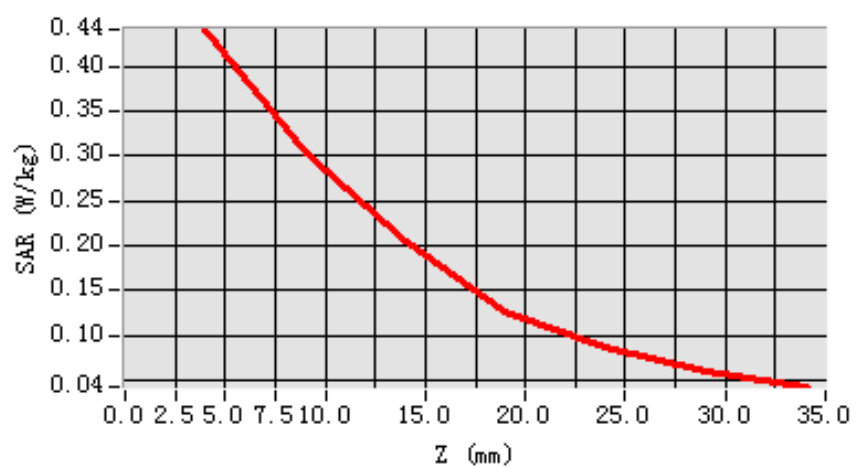


Maximum location: X=-3.00, Y=-7.00

SAR 10g (W/Kg)	0.112344
SAR 1g (W/Kg)	0.193624

Z Axis Scan

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



MEASUREMENT 9

Type: Phone measurement (Complete)

Date of measurement: 04/16/2010

Measurement duration: 14 minutes 27 seconds

Mobile Phone IMEI number: --

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

Crest Factor: WIFI Duty cycle: 1:1

Medium parameters used: $f=2462\text{MHz}$; $\sigma=40.21\text{mho/m}$; $\epsilon_r=1.86$; $\rho=1000\text{kg/m}^3$

Area Scan: 7 x 7 x 1

dx=15mm

dy=15mm

Zoom Scan: 5 x 5 x 7

dx=5mm

dy=5mm

dz=5mm

Z Axis Scan: 1 x 1 x 21

dx=20mm

dy=20mm

dz=5mm

A. Experimental conditions.

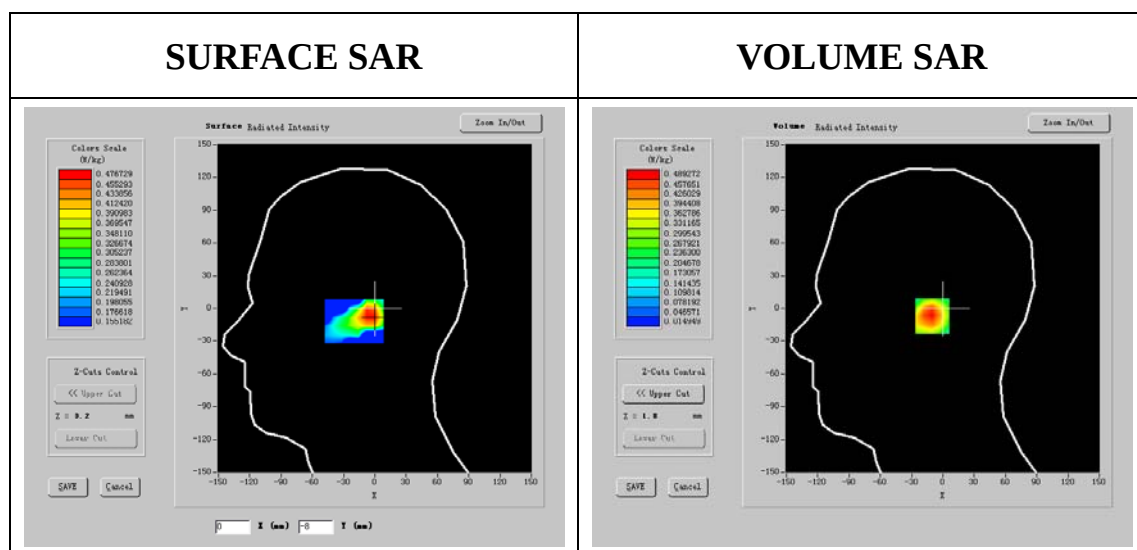
Phantom File	zinf15.txt, Adaptive 2 max
Phantom	Left head
Device Position	Cheek
Band	802.11b
Channels	High
Signal	wireless

B. Instrumentations.

PC	HP (Pentium(R) V3.06GHz, SN:375052-AA1)	Calibrated: N/A
Network Emulator	R&S (CMU200, SN:B23-03291)	Calibrated: 06/17/2009
Voltmeter	Keithley (2000, SN:1015843)	Calibrated: 05/01/2009
Synthetizer	Agilent (E8257C, SN:MY43321570)	Calibrated: 08/07/2009
Amplifier	Mini-Circuits (ZHL-42, SN:110405)	Calibrated: 07/29/2009
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibrated: 07/29/2009
Probe	Antennessa (SN:SN_1109_EP_100)	Calibrated: 04/16/2009
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibrated: N/A
Liquid	Antennessa	Calibrated: N/A
Measurement SW	OPEN SAR V2.1	Calibrated: N/A

C. SAR Measurement Results

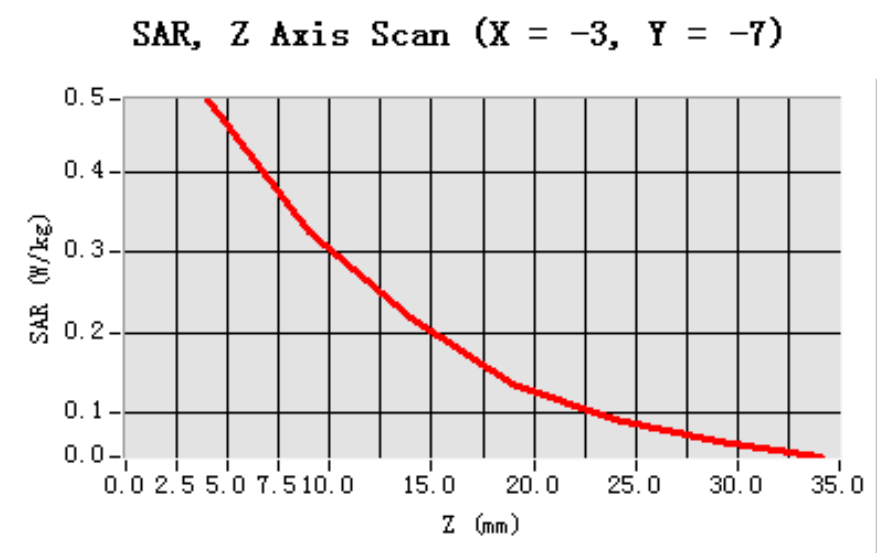
Frequency (MHz)	2462.000000
Relative permittivity (real part)	40.216348
Relative permittivity (imaginary part)	13.369120
Conductivity (S/m)	1.856720
Variation (%)	0.500000



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

SAR 10g (W/Kg)	0.106222
SAR 1g (W/Kg)	0.185449

Z Axis Scan



MEASUREMENT 10

Type: Phone measurement (Complete)

Date of measurement: 04/16/2010

Measurement duration: 14 minutes 19 seconds

Mobile Phone IMEI number: --

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

Crest Factor: WIFI Duty cycle: 1:1

Medium parameters used: $f=2412\text{MHz}$; $\sigma=40.41\text{mho/m}$; $\epsilon_r=1.86$; $\rho=1000\text{kg/m}^3$

Area Scan: 7 x 7 x 1 dx=15mm dy=15mm

Zoom Scan: 5 x 5 x 7 dx=5mm dy=5mm dz=5mm

Z Axis Scan: 1 x 1 x 21 dx=20mm dy=20mm dz=5mm

A. Experimental conditions.

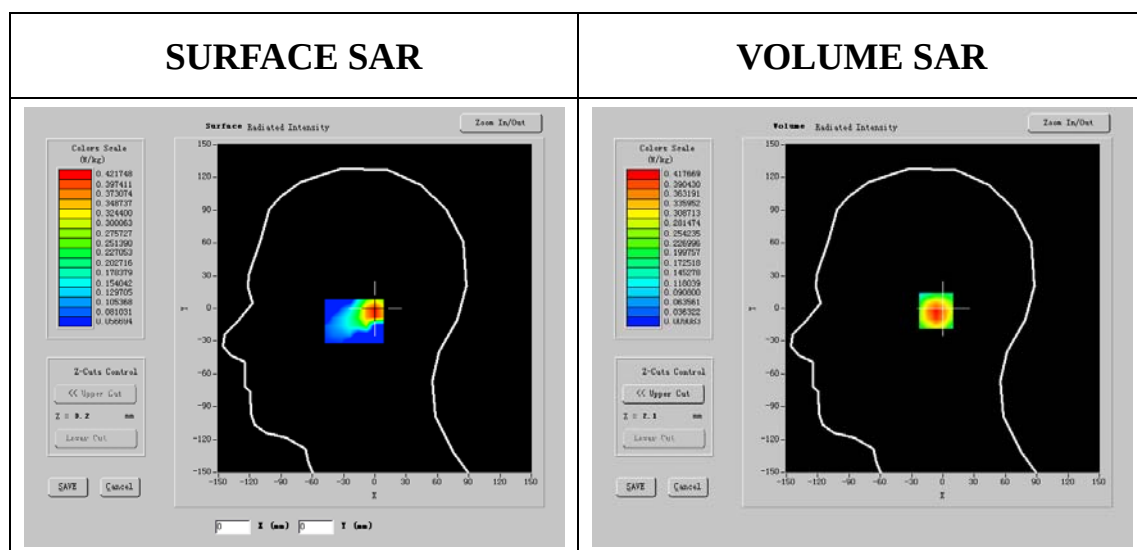
Phantom File	zinf15.txt, Adaptive 2 max
Phantom	Left head
Device Position	Tilt
Band	802.11b
Channels	Low
Signal	wireless

B. Instrumentations.

PC	HP (Pentium(R) V3.06GHz, SN:375052-AA1)	Calibrated: N/A
Network Emulator	R&S (CMU200, SN:B23-03291)	Calibrated: 06/17/2009
Voltmeter	Keithley (2000, SN:1015843)	Calibrated: 05/01/2009
Synthetizer	Agilent (E8257C, SN:MY43321570)	Calibrated: 08/07/2009
Amplifier	Mini-Circuits (ZHL-42, SN:110405)	Calibrated: 07/29/2009
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibrated: 07/29/2009
Probe	Antennessa (SN:SN_1109_EP_100)	Calibrated: 04/16/2009
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibrated: N/A
Liquid	Antennessa	Calibrated: N/A
Measurement SW	OPEN SAR V2.1	Calibrated: N/A

C. SAR Measurement Results

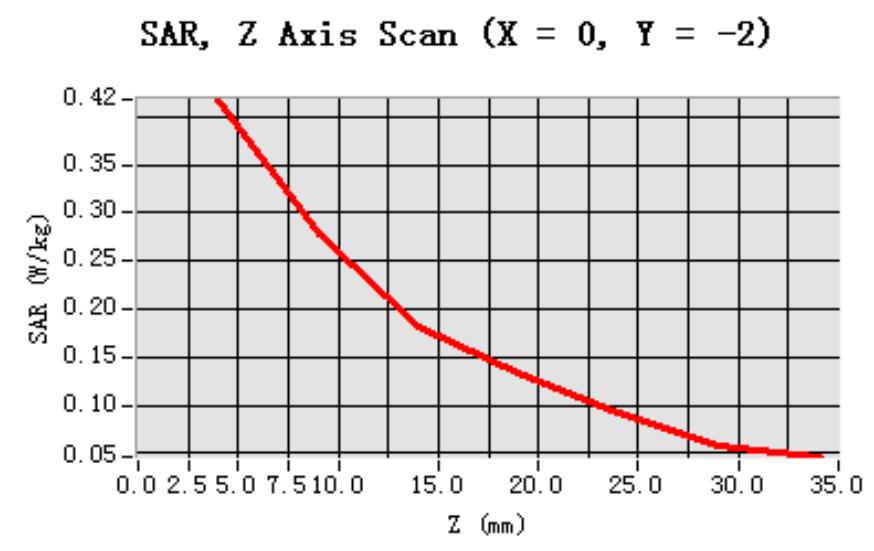
Frequency (MHz)	2412.000000
Relative permittivity (real part)	40.411584
Relative permittivity (imaginary part)	13.360591
Conductivity (S/m)	1.858466
Variation (%)	-0.600000



Maximum location: X=0.00, Y=-2.00

SAR 10g (W/Kg)	0.111033
SAR 1g (W/Kg)	0.203156

Z Axis Scan



MEASUREMENT 11

Type: Phone measurement (Complete)

Date of measurement: 04/16/2010

Measurement duration: 14 minutes 19 seconds

Mobile Phone IMEI number: --

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

Crest Factor: WIFI Duty cycle: 1:1

Medium parameters used: $f=2437\text{MHz}$; $\sigma=40.41\text{mho/m}$; $\epsilon_r=1.86$; $\rho=1000\text{kg/m}^3$

Area Scan: 7 x 7 x 1 dx=15mm dy=15mm

Zoom Scan: 5 x 5 x 7 dx=5mm dy=5mm dz=5mm

Z Axis Scan: 1 x 1 x 21 dx=20mm dy=20mm dz=5mm

A. Experimental conditions.

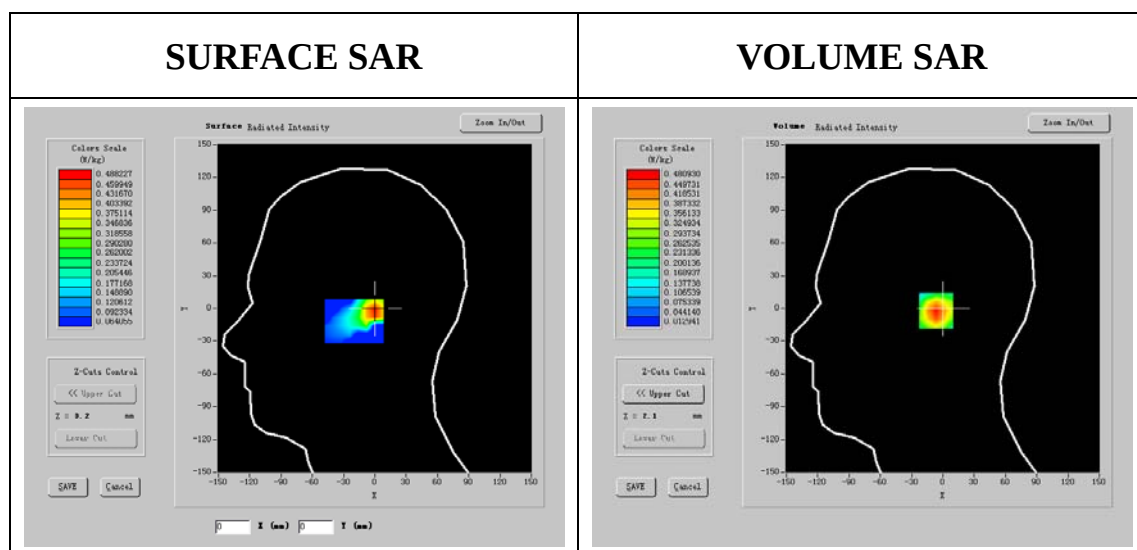
Phantom File	zinf15.txt, Adaptive 2 max
Phantom	Left head
Device Position	Tilt
Band	802.11b
Channels	Middle
Signal	wireless

B. Instrumentations.

PC	HP (Pentium(R) V3.06GHz, SN:375052-AA1)	Calibrated: N/A
Network Emulator	R&S (CMU200, SN:B23-03291)	Calibrated: 06/17/2009
Voltmeter	Keithley (2000, SN:1015843)	Calibrated: 05/01/2009
Synthetizer	Agilent (E8257C, SN:MY43321570)	Calibrated: 08/07/2009
Amplifier	Mini-Circuits (ZHL-42, SN:110405)	Calibrated: 07/29/2009
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibrated: 07/29/2009
Probe	Antennessa (SN:SN_1109_EP_100)	Calibrated: 04/16/2009
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibrated: N/A
Liquid	Antennessa	Calibrated: N/A
Measurement SW	OPEN SAR V2.1	Calibrated: N/A

C. SAR Measurement Results

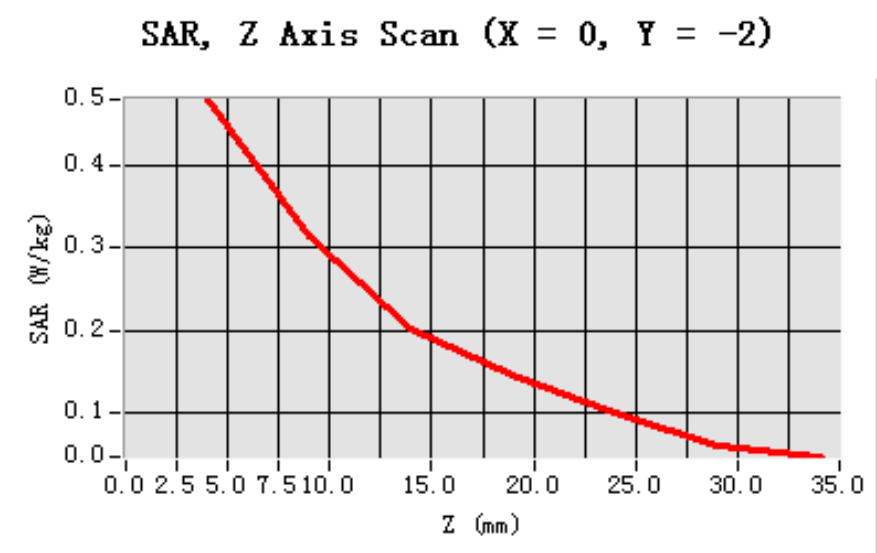
Frequency (MHz)	2437.000000
Relative permittivity (real part)	40.410335
Relative permittivity (imaginary part)	13.299614
Conductivity (S/m)	1.856470
Variation (%)	-1.200000



Maximum location: X=0.00, Y=-2.00

SAR 10g (W/Kg)	0.120147
SAR 1g (W/Kg)	0.215643

Z Axis Scan



MEASUREMENT 12

Type: Phone measurement (Complete)

Date of measurement: 04/16/2010

Measurement duration: 14 minutes 19 seconds

Mobile Phone IMEI number: --

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

Crest Factor: WIFI Duty cycle: 1:1

Medium parameters used: $f=2462\text{MHz}$; $\sigma=40.43\text{mho/m}$; $\epsilon_r=1.85$; $\rho=1000\text{kg/m}^3$

Area Scan: 7 x 7 x 1 dx=15mm dy=15mm

Zoom Scan: 5 x 5 x 7 dx=5mm dy=5mm dz=5mm

Z Axis Scan: 1 x 1 x 21 dx=20mm dy=20mm dz=5mm

A. Experimental conditions.

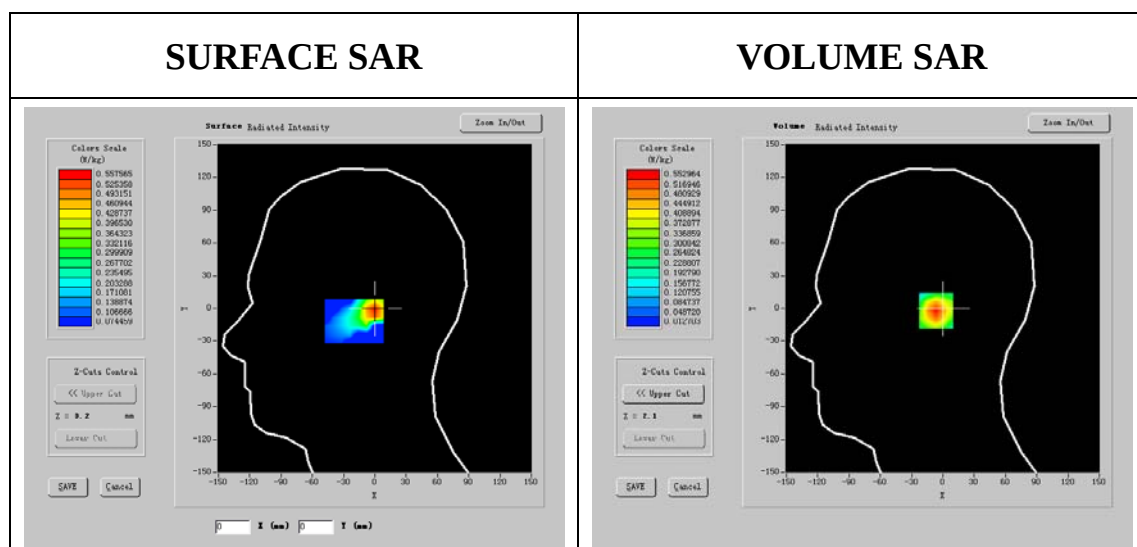
Phantom File	zinf15.txt, Adaptive 2 max
Phantom	Left head
Device Position	Tilt
Band	802.11b
Channels	High
Signal	wireless

B. Instrumentations.

PC	HP (Pentium(R) V3.06GHz, SN:375052-AA1)	Calibrated: N/A
Network Emulator	R&S (CMU200, SN:B23-03291)	Calibrated: 06/17/2009
Voltmeter	Keithley (2000, SN:1015843)	Calibrated: 05/01/2009
Synthetizer	Agilent (E8257C, SN:MY43321570)	Calibrated: 08/07/2009
Amplifier	Mini-Circuits (ZHL-42, SN:110405)	Calibrated: 07/29/2009
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibrated: 07/29/2009
Probe	Antennessa (SN:SN_1109_EP_100)	Calibrated: 04/16/2009
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibrated: N/A
Liquid	Antennessa	Calibrated: N/A
Measurement SW	OPEN SAR V2.1	Calibrated: N/A

C. SAR Measurement Results

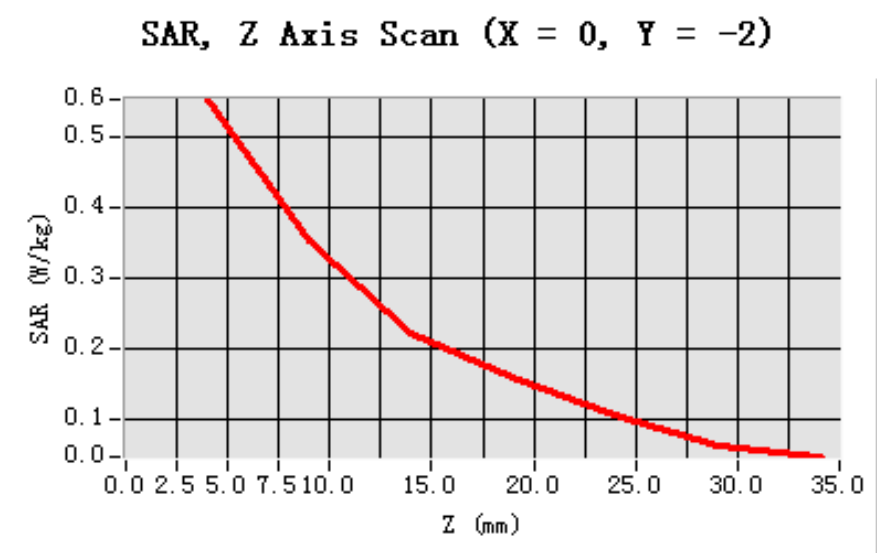
Frequency (MHz)	2462.000000
Relative permittivity (real part)	40.425301
Relative permittivity (imaginary part)	13.368611
Conductivity (S/m)	1.854470
Variation (%)	-1.140000



Maximum location: X=0.00, Y=-2.00

SAR 10g (W/Kg)	0.124480
SAR 1g (W/Kg)	0.221402

Z Axis Scan



MEASUREMENT 13

Type: Phone measurement (Complete)

Date of measurement: 04/16/2010

Measurement duration: 14 minutes 44 seconds

Mobile Phone IMEI number: --

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

Crest Factor: WIFI Duty cycle: 1:1

Medium parameters used: $f=2412\text{MHz}$; $\sigma=51.52\text{mho/m}$; $\epsilon_r=1.97$; $\rho=1000\text{kg/m}^3$

Area Scan: 7 x 7 x 1 dx=15mm dy=15mm

Zoom Scan: 5 x 5 x 7 dx=5mm dy=5mm dz=5mm

Z Axis Scan: 1 x 1 x 21 dx=20mm dy=20mm dz=5mm

A. Experimental conditions.

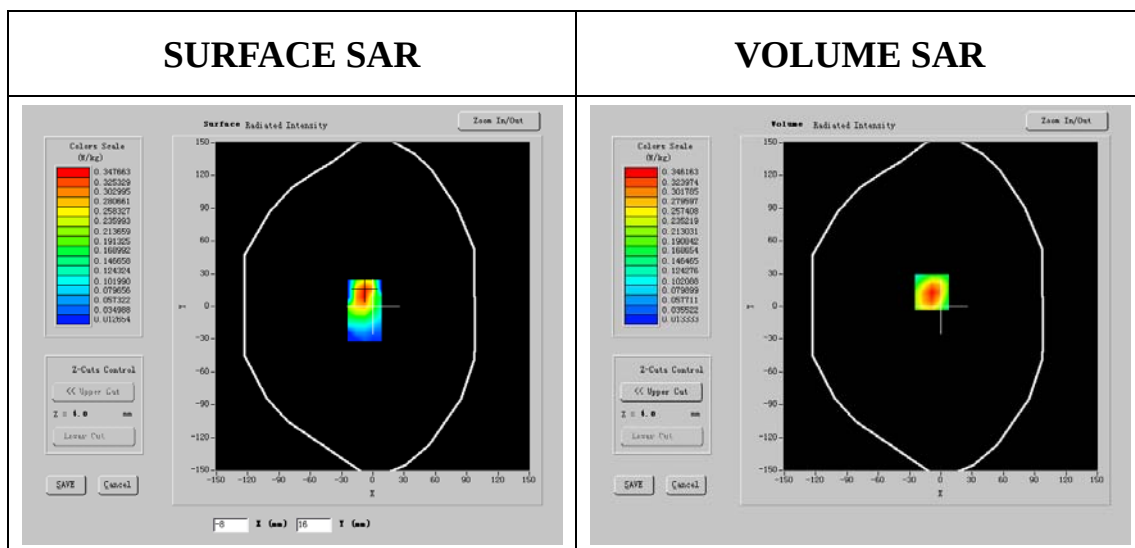
Phantom File	surf_sam_plan.txt, Adaptive 2 max
Phantom	Validation plane
Device Position	Body
Band	802.11b
Channels	Low
Signal	wireless

B. Instrumentations.

PC	HP (Pentium(R) V3.06GHz, SN:375052-AA1)	Calibrated: N/A
Network Emulator	R&S (CMU200, SN:B23-03291)	Calibrated: 06/17/2009
Voltmeter	Keithley (2000, SN:1015843)	Calibrated: 05/01/2009
Synthetizer	Agilent (E8257C, SN:MY43321570)	Calibrated: 08/07/2009
Amplifier	Mini-Circuits (ZHL-42, SN:110405)	Calibrated: 07/29/2009
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibrated: 07/29/2009
Probe	Antennessa (SN:SN_1109_EP_100)	Calibrated: 04/16/2009
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibrated: N/A
Liquid	Antennessa	Calibrated: N/A
Measurement SW	OPEN SAR V2.1	Calibrated: N/A

C. SAR Measurement Results

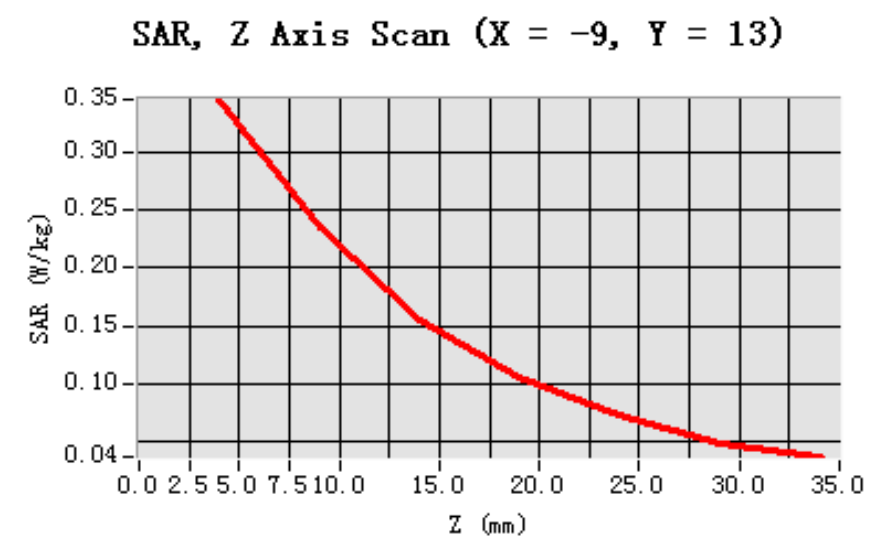
Frequency (MHz)	2412.000000
Relative permittivity (real part)	51.520064
Relative permittivity (imaginary part)	13.370061
Conductivity (S/m)	1.965014
Variation (%)	-0.130000



Maximum location: X=-9.00, Y=13.00

SAR 10g (W/Kg)	0.043100
SAR 1g (W/Kg)	0.094622

Z Axis Scan



MEASUREMENT 14

Type: Phone measurement (Complete)

Date of measurement: 04/16/2010

Measurement duration: 14 minutes 44 seconds

Mobile Phone IMEI number: --

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

Crest Factor: WIFI Duty cycle: 1:1

Medium parameters used: $f=2437\text{MHz}$; $\sigma=51.53\text{mho/m}$; $\epsilon_r=1.96$; $\rho=1000\text{kg/m}^3$

Area Scan: 7 x 7 x 1 dx=15mm dy=15mm

Zoom Scan: 5 x 5 x 7 dx=5mm dy=5mm dz=5mm

Z Axis Scan: 1 x 1 x 21 dx=20mm dy=20mm dz=5mm

A. Experimental conditions.

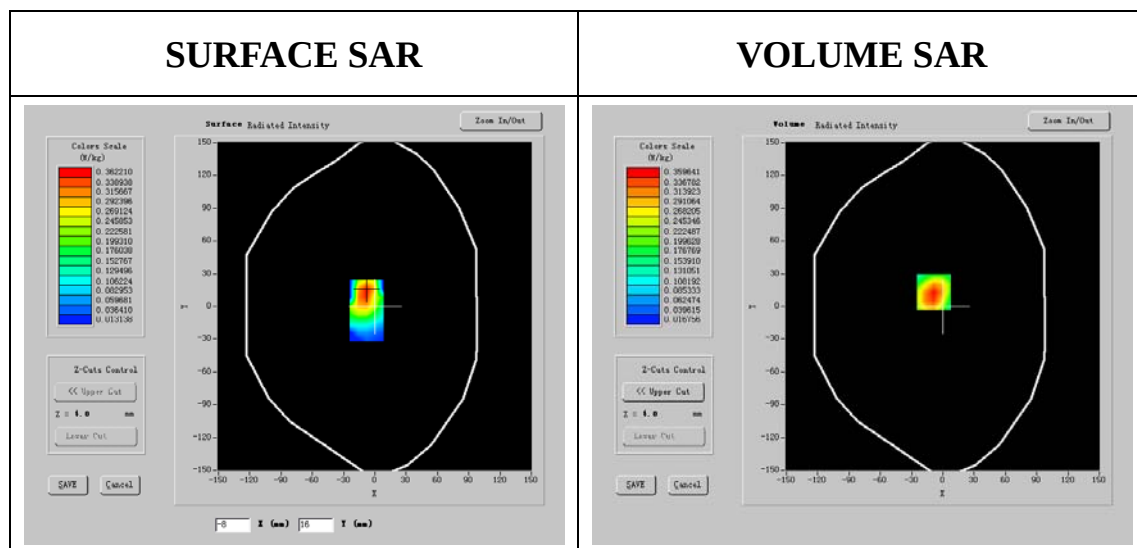
Phantom File	surf_sam_plan.txt, Adaptive 2 max
Phantom	Validation plane
Device Position	Body
Band	802.11b
Channels	Middle
Signal	wireless

B. Instrumentations.

PC	HP (Pentium(R) V3.06GHz, SN:375052-AA1)	Calibrated: N/A
Network Emulator	R&S (CMU200, SN:B23-03291)	Calibrated: 06/17/2009
Voltmeter	Keithley (2000, SN:1015843)	Calibrated: 05/01/2009
Synthetizer	Agilent (E8257C, SN:MY43321570)	Calibrated: 08/07/2009
Amplifier	Mini-Circuits (ZHL-42, SN:110405)	Calibrated: 07/29/2009
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibrated: 07/29/2009
Probe	Antennessa (SN:SN_1109_EP_100)	Calibrated: 04/16/2009
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibrated: N/A
Liquid	Antennessa	Calibrated: N/A
Measurement SW	OPEN SAR V2.1	Calibrated: N/A

C. SAR Measurement Results

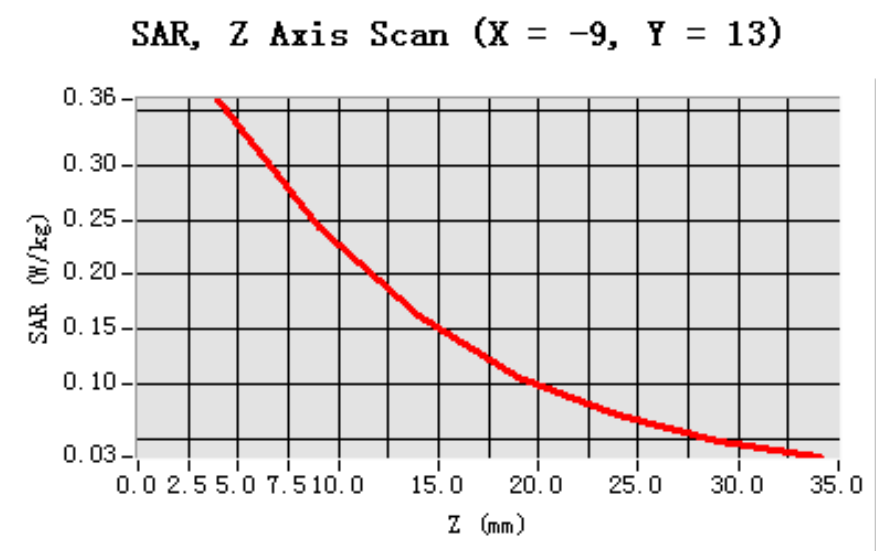
Frequency (MHz)	2437.000000
Relative permittivity (real part)	51.530000
Relative permittivity (imaginary part)	13.400011
Conductivity (S/m)	1.960210
Variation (%)	-0.600000



Maximum location: X=-9.00, Y=13.00

SAR 10g (W/Kg)	0.055328
SAR 1g (W/Kg)	0.101477

Z Axis Scan



MEASUREMENT 15

Type: Phone measurement (Complete)

Date of measurement: 04/16/2010

Measurement duration: 14 minutes 44 seconds

Mobile Phone IMEI number: --

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

Crest Factor: WIFI Duty cycle: 1:1

Medium parameters used: $f=2462\text{MHz}$; $\sigma=51.54\text{mho/m}$; $\epsilon_r=1.96$; $\rho=1000\text{kg/m}^3$

Area Scan: 7 x 7 x 1 dx=15mm dy=15mm

Zoom Scan: 5 x 5 x 7 dx=5mm dy=5mm dz=5mm

Z Axis Scan: 1 x 1 x 21 dx=20mm dy=20mm dz=5mm

A. Experimental conditions.

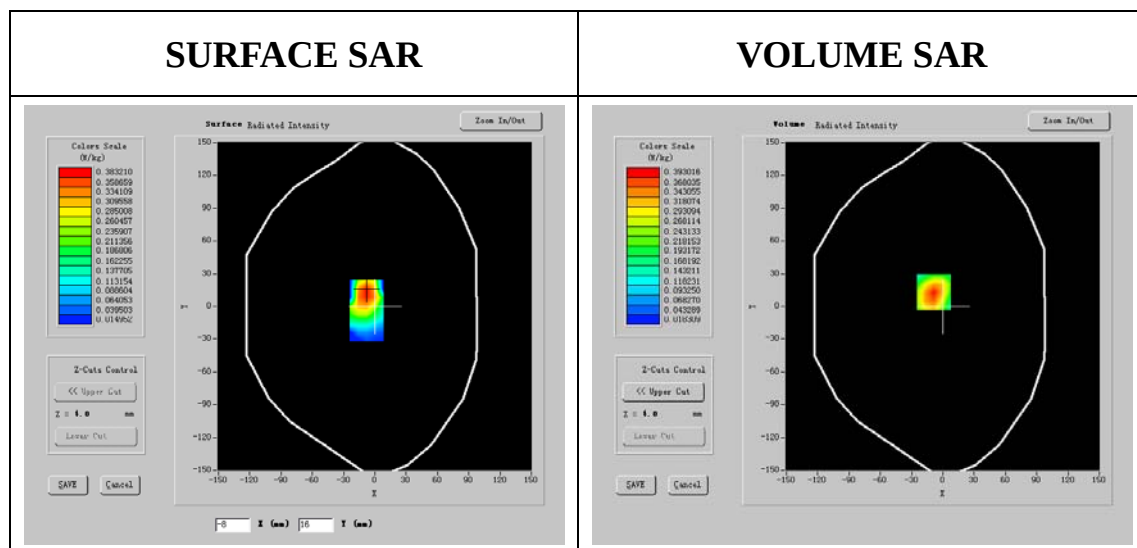
Phantom File	surf_sam_plan.txt, Adaptive 2 max
Phantom	Validation plane
Device Position	Body
Band	802.11b
Channels	High
Signal	wireless

B. Instrumentations.

PC	HP (Pentium(R) V3.06GHz, SN:375052-AA1)	Calibrated: N/A
Network Emulator	R&S (CMU200, SN:B23-03291)	Calibrated: 06/17/2009
Voltmeter	Keithley (2000, SN:1015843)	Calibrated: 05/01/2009
Synthetizer	Agilent (E8257C, SN:MY43321570)	Calibrated: 08/07/2009
Amplifier	Mini-Circuits (ZHL-42, SN:110405)	Calibrated: 07/29/2009
Power Meter	Agilent (E4416A, SN:QB41292714)	Calibrated: 07/29/2009
Probe	Antennessa (SN:SN_1109_EP_100)	Calibrated: 04/16/2009
Phantom	Antennessa (SN:SN41_05_SAM29)	Calibrated: N/A
Liquid	Antennessa	Calibrated: N/A
Measurement SW	OPEN SAR V2.1	Calibrated: N/A

C. SAR Measurement Results

Frequency (MHz)	2462.000000
Relative permittivity (real part)	51.536640
Relative permittivity (imaginary part)	13.380026
Conductivity (S/m)	1.959641
Variation (%)	-0.400000



Maximum location: X=-9.00, Y=13.00

SAR 10g (W/Kg)	0.046388
SAR 1g (W/Kg)	0.098777

Z Axis Scan

