System Validation Plots
Project name :
KS100504B03

EUT DESCRIPTION

Product name: Mobile Phone

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

Trade name: Baoxing

Tested date: May 13, 2010

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

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

Air Temperature: 21 °C Liqued Temperature: 20 °C			
Crest Factor: CW:1_	GSM:8		GPRS 12:2
Area Scan: 7 x 7 x 1	dx=15mm	dy=15mm	
Zoom Scan: 5 x 5 x 7	dx=5mm	dy=5mm	dz=5mm
Z Axis Scan: 1 x 1 x 21	dx=20mm	dy=20mm	dz=5mm

Probe: Antennessa (SN:SN_1109_EP_100)

Compliance Certification Services (Kunshan) Inc. No.10, Weiye Rd., Innovation Park, Eco & Tec. Development Part, Kunshan City, Jiangsu Province, PRC.

TEL: 86-512-57355888 FAX: 86-512-57370818 http://www.ccsrf.com

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850 HEAD VALIDATION

I. RESULTS

	TYPE	<u>PARAMETERS</u>
	<u>Noise</u>	
<u>GSM850</u>	Validation	Measurement 1: Validation Plane with Dipole device position on Middle Channel in CW mode
	Phone	

MEASUREMENT 1

Type: Validation measurement (Complete)

Date of measurement: 13/5/2010

Measurement duration: 6 minutes 41 seconds

Mobile Phone IMEI number: --

A. Experimental conditions.

Phantom File	surf_sam_plan.txt, Adaptative 2 max
Phantom	Validation plane
Device Position	Dipole
Band	GSM850
Channels	Middle
Signal	CW

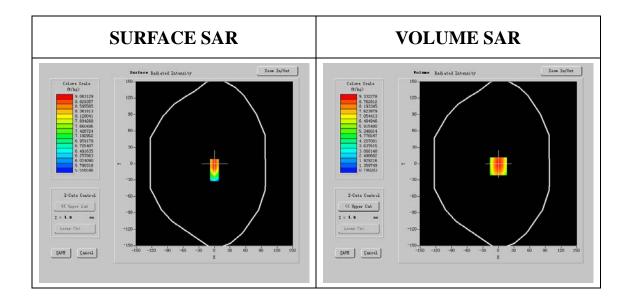
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B. Instrumentations.

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

C. SAR Measurement Results

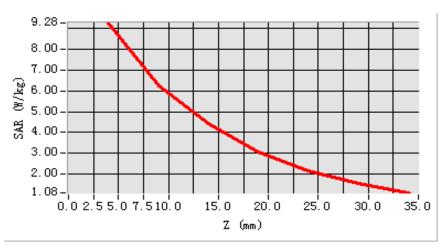
Frequency (MHz)	835.000110
Relative permitivity (real part)	41.559001
Relative permitivity (imaginary	19.590210
part)	
Conductivity (S/m)	0.924310
Variation (%)	0.450000



Maximum location: X=0.00, Y=-5.00

Z Axis Scan

SAR, Z Axis Scan (X = 0, Y = -5)



1900 HEAD VALIDATION

I. RESULTS

	TYPE	<u>PARAMETERS</u>
	<u>Noise</u>	
<u>GSM1900</u>	Validation	Measurement 1: Validation Plane with Cheek device position on Middle Channel in CW mode
	Phone	

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MEASUREMENT 1

Type: Validation measurement (Complete)

Date of measurement: 13/5/2010

Measurement duration: 7 minutes 3 seconds

Mobile Phone IMEI number: --

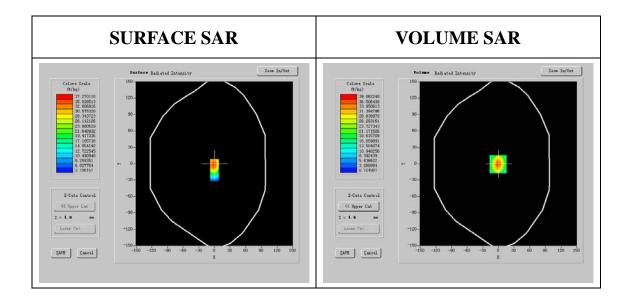
A. Experimental conditions.

Phantom File	surf_sam_plan.txt, Adaptative 2 max
Phantom	Validation plane
Device Position	Dipole
Band	GSM1900
Channels	Middle
Signal	CW

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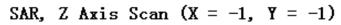
B. SAR Measurement Results

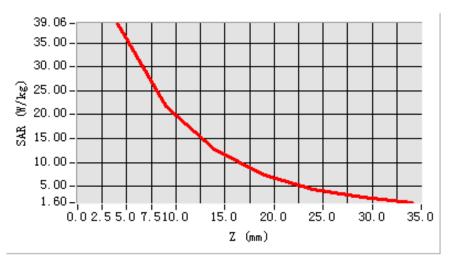
Frequency (MHz)	1900.000020
Relative permitivity (real part)	41.211023
Relative permitivity (imaginary	13.210520
conductivity (S/m)	1.441301
Variation (%)	0.450000



Maximum location: X=-1.00, Y=-1.00

Z Axis Scan





850 BODY VALIDATION

I. RESULTS

	TYPE	<u>PARAMETERS</u>
	<u>Noise</u>	
<u>GSM850</u>	Validation	Measurement 1: Validation Plane with Dipole device position on Middle Channel in CW mode
	Phone	

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MEASUREMENT 1

Type: Validation measurement (Complete)

Date of measurement: 13/5/2010

Measurement duration: 6 minutes 51 seconds

Mobile Phone IMEI number: --

A. Experimental conditions.

Phantom File	surf_sam_plan.txt, Adaptative 2 max
Phantom	Validation plane
Device Position	Dipole
Band	GSM850
Channels	Middle
Signal	CW

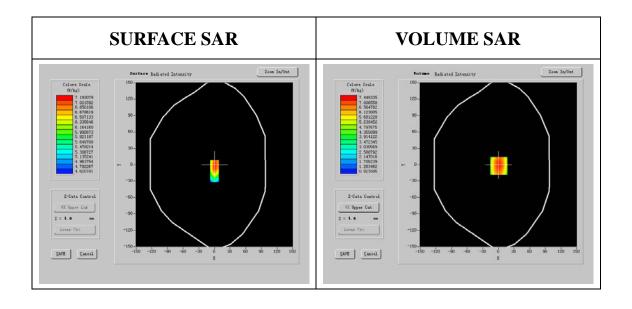
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B. Instrumentations.

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

C. SAR Measurement Results

Frequency (MHz)	835.000004
Relative permitivity (real part)	54.512300
Relative permitivity (imaginary	22.120012
part) Conductivity (S/m)	0.979110
Variation (%)	0.300000

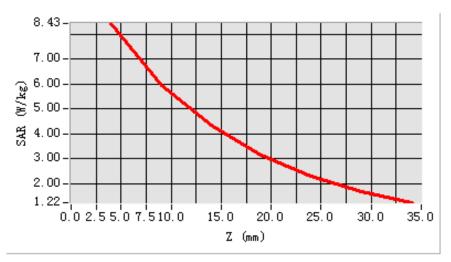


Maximum location: X=1.00, Y=-2.00

SAR 1g (W/Kg)	9.683247
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Z Axis Scan

SAR, Z Axis Scan (X = 1, Y = -2)



1900 BODY VALIDATION

I. RESULTS

	TYPE	<u>PARAMETERS</u>
	<u>Noise</u>	
<u>GSM1900</u>	Validation	Measurement 1: Validation Plane with Dipole device position on Middle Channel in CW mode
	<u>Phone</u>	

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MEASUREMENT 1

Type: Validation measurement (Complete)

Date of measurement: 4/5/2010

Measurement duration: 6 minutes 43 seconds

Mobile Phone IMEI number: --

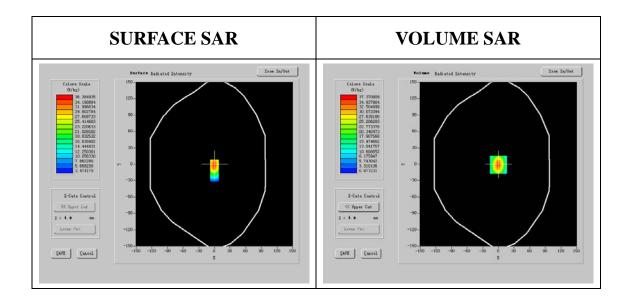
A. Experimental conditions.

Phantom File	surf_sam_plan.txt, Adaptative 2 max
Phantom	Validation plane
Device Position	Dipole
Band	GSM1900
Channels	Middle
Signal	CW

B. SAR Measurement Results

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Frequency (MHz)	1900.000000
Relative permitivity (real part)	52.953128
Relative permitivity (imaginary	13.621000
part)	
Conductivity (S/m)	1.490230
Variation (%)	-0.400000



Maximum location: X=0.00, Y=-1.00

Z Axis Scan

