System Validation Plots
Project name :
KS100823B02-SF

EUT DESCRIPTION

Product: Mobile Phone

Model: Tike

Trade name: Xeuss

Tested: August 24, 2010

Applicant: Mastercell LLC

759 Bloomfield Ave 161 West Caldwell, NJ 07006 USA

Air Temperature: 21 °C	Liqued Temperature:	20 °C
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Crest Factor: CW:__1_ GSM:__8__ GPRS 10: __4__

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: 08/24/2010

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

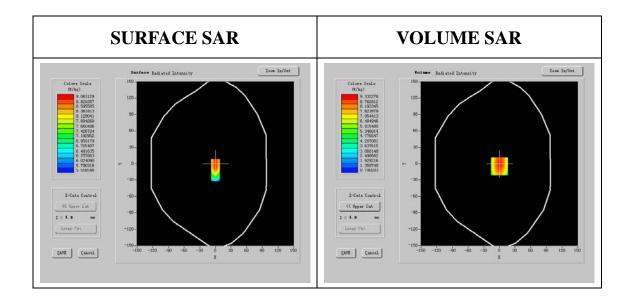
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B. Instrumentations.

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)	835.000000
Relative permitivity (real part)	41.467443
Relative permitivity (imaginary	19.592850
part)	
Conductivity (S/m)	0.908114
Variation (%)	0.600000

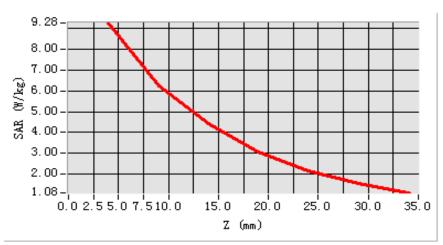


Maximum location: X=0.00, Y=-5.00

SAR 10g (W/Kg)	6.143568
SAR 1g (W/Kg)	9.321774

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
	<u>Phone</u>	

MEASUREMENT 1

Type: Validation measurement (Complete)

Date of measurement: 08/24/2010

Measurement duration: 7 minutes 3 seconds

Mobile Phone IMEI number: --

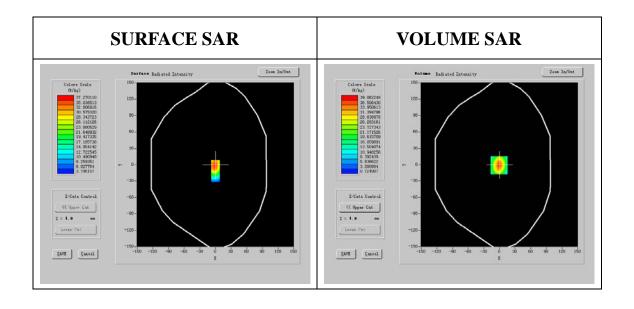
A. Experimental conditions.

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

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B. SAR Measurement Results

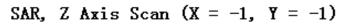
Frequency (MHz)	1900.000000
Relative permitivity (real part)	40.233659
Relative permitivity (imaginary	13.740258
part) Conductivity (S/m)	1.412467
Variation (%)	0.085000

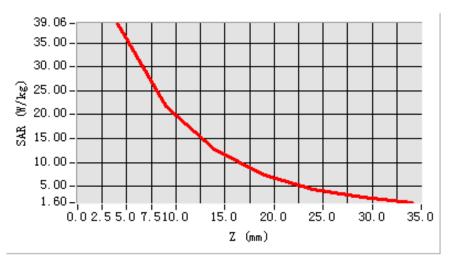


Maximum location: X=-1.00, Y=-1.00

SAR 10g (W/Kg)	20.427734
SAR 1g (W/Kg)	38.993579

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: 08/24/2010

Measurement duration: 6 minutes 51 seconds

Mobile Phone IMEI number: --

A. Experimental conditions.

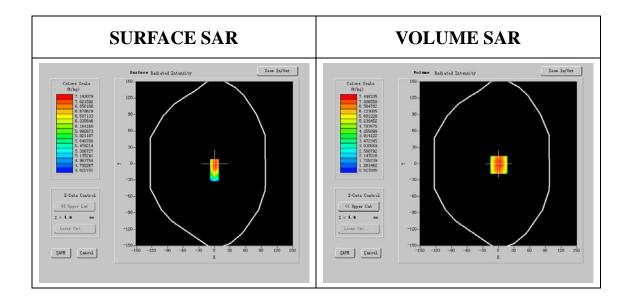
Phantom File	surf_sam_plan.txt, Adaptative 2 max
Phantom	Validation plane
Device Position	Dipole
Band	GSM850
Channels	Middle
Signal	CW

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)	835.000000
Relative permitivity (real part)	55.403325
Relative permitivity (imaginary	22.115744
part) Conductivity (S/m)	0.964369
Variation (0/)	0.240000
Variation (%)	0.240000

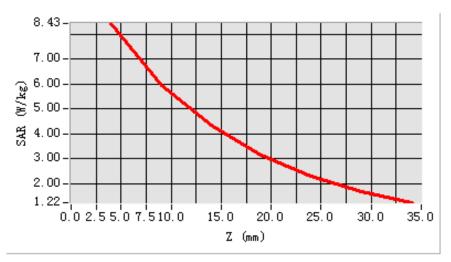


Maximum location: X=1.00, Y=-2.00

SAR 10g (W/Kg)	6.237842
SAR 1g (W/Kg)	9.627885

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>	

MEASUREMENT 1

Type: Validation measurement (Complete)

Date of measurement:08/24/2010

Measurement duration: 6 minutes 43 seconds

Mobile Phone IMEI number: --

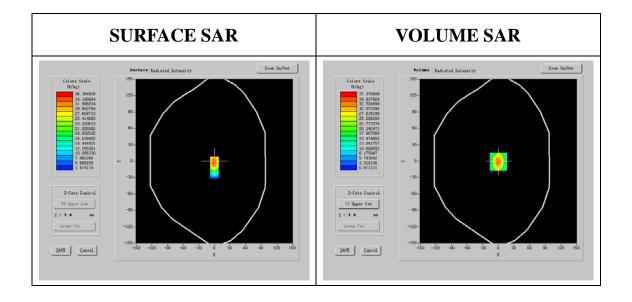
A. Experimental conditions.

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)	52.993168
Relative permitivity (imaginary	13.820000
part)	
Conductivity (S/m)	1.515666
Variation (%)	-0.500000



Maximum location: X=0.00, Y=-1.00

SAR 10g (W/Kg)	19.693444
SAR 1g (W/Kg)	38.957625

Z Axis Scan

