
	SAR MEASUREMENT REPORT
	Project name :
	KS071012A02 FCCID: VFM-NSZMNS9000

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> 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

Ambient temperature:20c

Liquid temperature:21c

Crest Factor: 4 (Duty cycle: 25%)

Type: Phone measurement (Complete)

Date of measurement: 12/10/2007

Measurement duration: 6 minutes 29 seconds

Mobile Phone IMEI number: --

A. Experimental conditions.

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

B. Instrumentations.

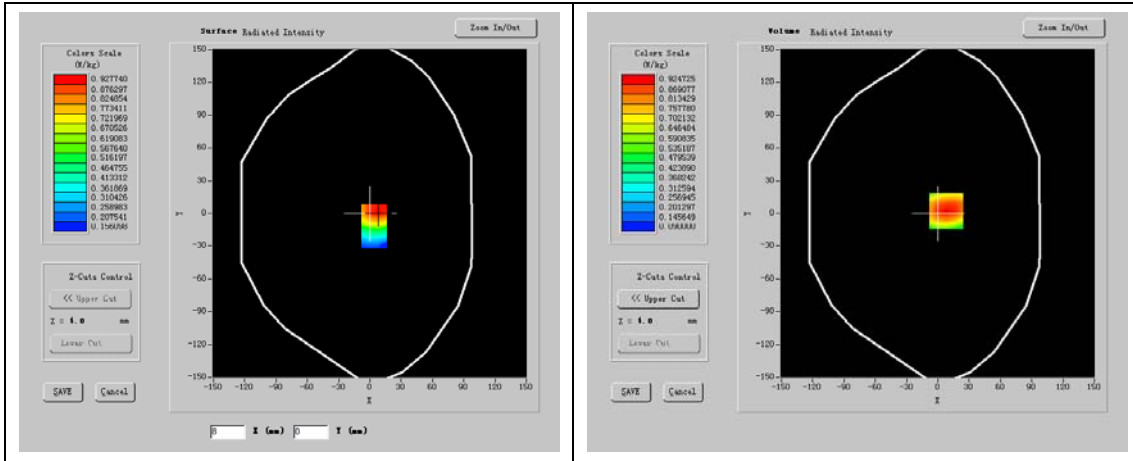
PC	HP (Pentium(R) V3.06GHz, SN:375052-AA1)
Network Emulator	R&S (CMU200, SN:B23-03291)
Voltmeter	Keithley (2000, SN:1015843)
Synthetizer	Agilent (E8257C, SN:MY43321570)
Amplifier	Mini-Circuits (ZHL-42, SN:110405)
Power Meter	Agilent (E4416A, SN:QB41292714)
Probe	Antennessa (SN:SN_0807_EP_74)
Phantom	Antennessa (SN:SN41_05_SAM29)
Liquid	Antennessa (Last Calibration:02/2007)

C. SAR Measurement Results

Lower Band SAR (Channel 128):

Frequency (MHz)	824.200012
Relative permittivity (real part)	41.466090
Relative permittivity (imaginary part)	19.484174
Conductivity (S/m)	0.9005958
Variation (%)	-0.820000

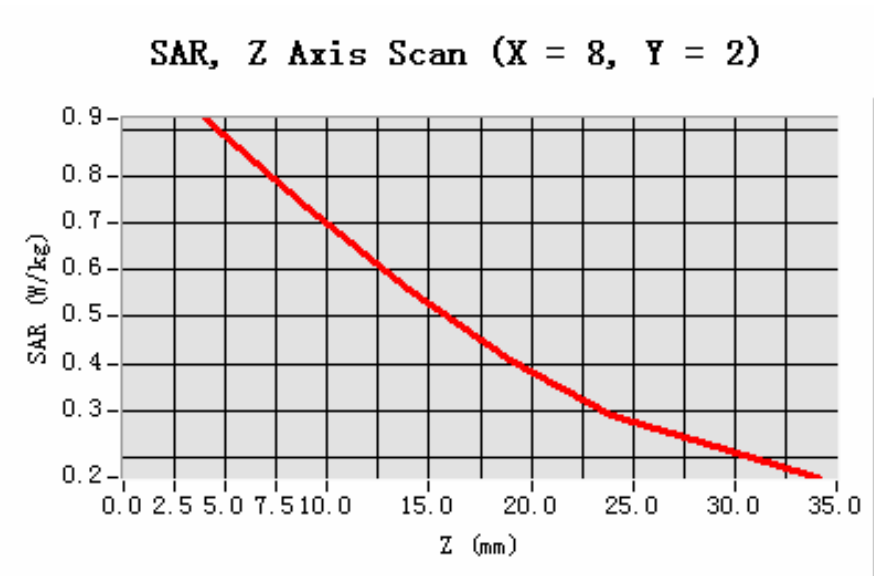
SURFACE SAR	VOLUME SAR
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Maximum location: X=8.00, Y=2.00

<p style="text-align: center;">SAR 10g (W/Kg)</p>	<p style="text-align: center;">0.160955</p>
<p style="text-align: center;">SAR 1g (W/Kg)</p>	<p style="text-align: center;">0.269254</p>

Z Axis Scan



MEASUREMENT 2

Ambient temperature:20c

Liquid temperature:21c

Crest Factor: 4 (Duty cycle: 25%)

Type: Phone measurement (Complete)

Date of measurement: 12/10/2007

Measurement duration: 6 minutes 32 seconds

Mobile Phone IMEI number: --

A. Experimental conditions.

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

B. Instrumentations.

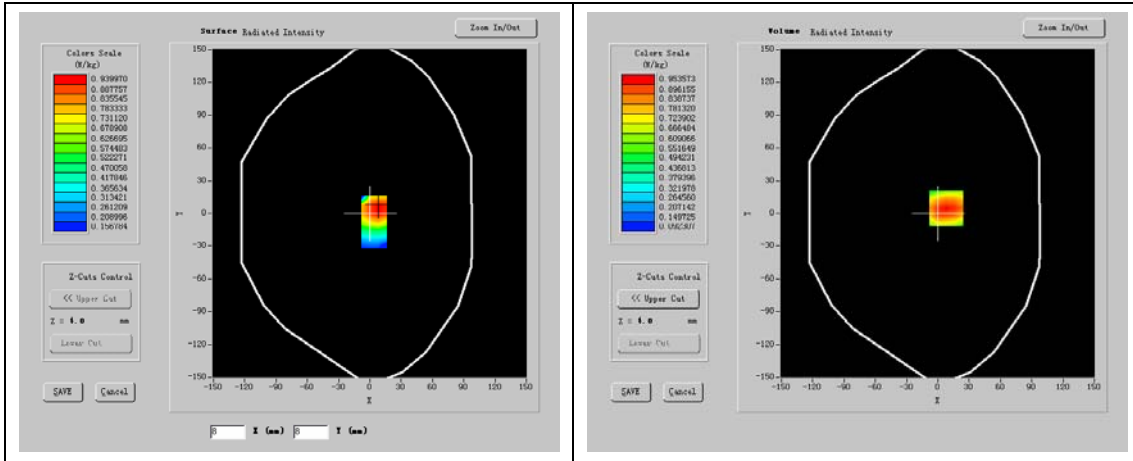
PC	HP (Pentium(R) V3.06GHz, SN:375052-AA1)
Network Emulator	R&S (CMU200, SN:B23-03291)
Voltmeter	Keithley (2000, SN:1015843)
Synthesizer	Agilent (E8257C, SN:MY43321570)
Amplifier	Mini-Circuits (ZHL-42, SN:110405)
Power Meter	Agilent (E4416A, SN:QB41292714)
Probe	Antennessa (SN:SN_0807_EP_74)
Phantom	Antennessa (SN:SN41_05_SAM29)
Liquid	Antennessa (Last Calibration:02/2006)

C. SAR Measurement Results

Middle Band SAR (Channel 189):

Frequency (MHz)	824.200012
Relative permittivity (real part)	41.468426
Relative permittivity (imaginary part)	19.495181
Conductivity (S/m)	0.8915861
Variation (%)	-0.650000

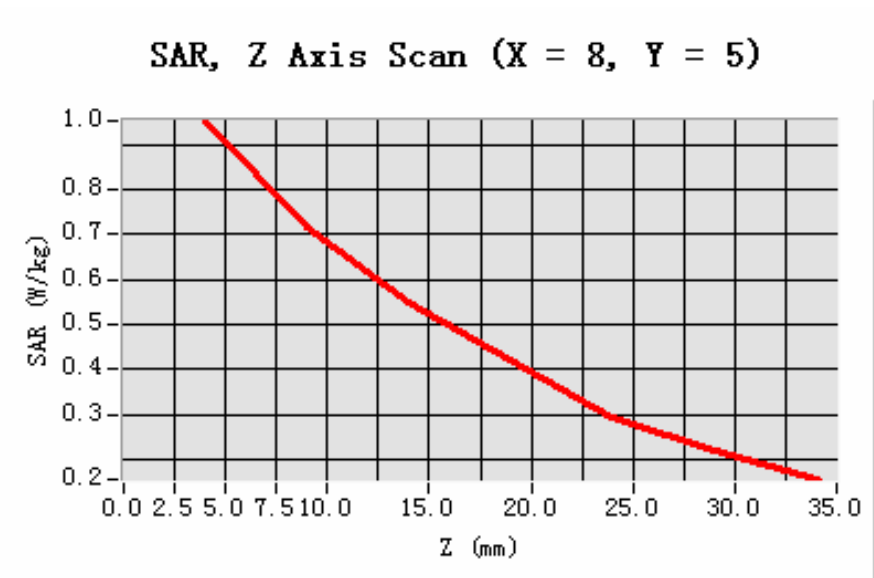
SURFACE SAR	VOLUME SAR
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Maximum location: X=8.00, Y=5.00

<p>SAR 10g (W/Kg)</p>	<p>0.156267</p>
<p>SAR 1g (W/Kg)</p>	<p>0.220287</p>

Z Axis Scan



MEASUREMENT 3

Ambient temperature:20c

Liquid temperature:21c

Crest Factor: 4 (Duty cycle: 25%)

Type: Phone measurement (Complete)

Date of measurement: 12/10/2007

Measurement duration: 6 minutes 13 seconds

Mobile Phone IMEI number: --

A. Experimental conditions.

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

B. Instrumentations.

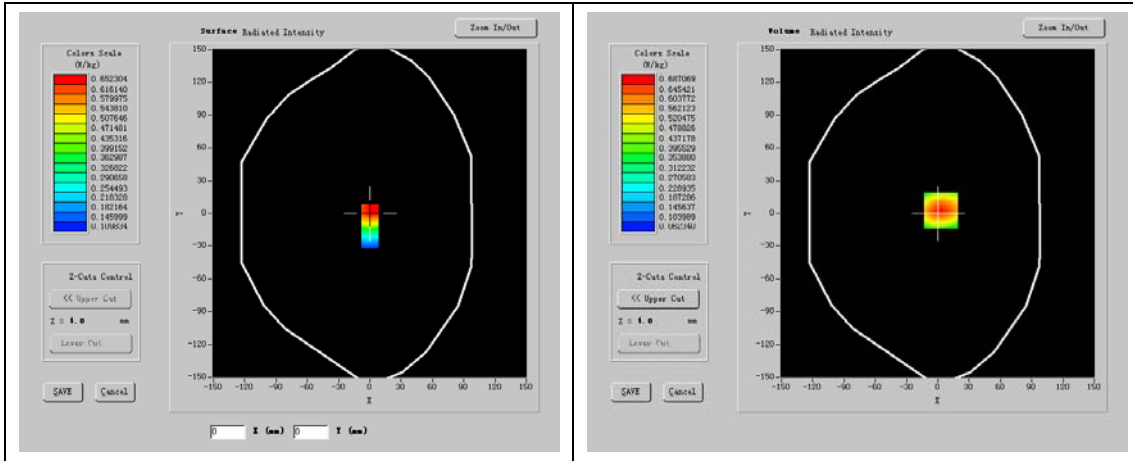
PC	HP (Pentium(R) V3.06GHz, SN:375052-AA1)
Network Emulator	R&S (CMU200, SN:B23-03291)
Voltmeter	Keithley (2000, SN:1015843)
Synthesizer	Agilent (E8257C, SN:MY43321570)
Amplifier	Mini-Circuits (ZHL-42, SN:110405)
Power Meter	Agilent (E4416A, SN:QB41292714)
Probe	Antennessa (SN:SN_0807_EP_74)
Phantom	Antennessa (SN:SN41_05_SAM29)
Liquid	Antennessa (Last Calibration:02/2006)

C. SAR Measurement Results

Higher Band SAR (Channel 250):

Frequency (MHz)	824.200012
Relative permittivity (real part)	41.467255
Relative permittivity (imaginary part)	19.499156
Conductivity (S/m)	0.9015458
Variation (%)	-0.780000

SURFACE SAR	VOLUME SAR
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Maximum location: X=3.00, Y=3.00

SAR 10g (W/Kg)	0.095145
SAR 1g (W/Kg)	0.154721

Z Axis Scan

