	System Validation Plots
	Project name :
	KS100319A02

EUT DESCRIPTION

Product:	EFTPOS Terminal
Model:	T800
Trade name:	SPECTRA
FCC ID:	N/A
Tested:	March 25, 2010
Applicant:	SPECTRA Technologies Holdings Co.Ltd. Unit 1301-09，19－20, Tower II,Grand Century Place, 193 Prince Edward Road West，Kowloon,Hong Kong

Air Temperature: 21 °C Liqued Temperature: 20 °C

Crest Factor: CW:___1__ GSM:__8___ GPRS 10: __4___

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)

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850 BODY VALIDATION

I. RESULTS

	TYPE	PARAMETERS
GSM850	Noise	--
	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: 25/03/2010

Measurement duration: 6 minutes 51 seconds

Mobile Phone IMEI number: --

A. Experimental conditions.

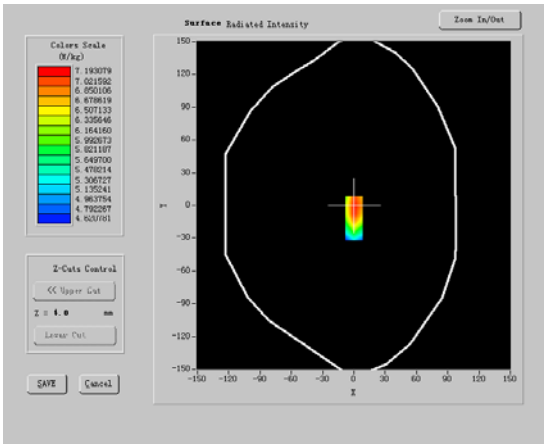
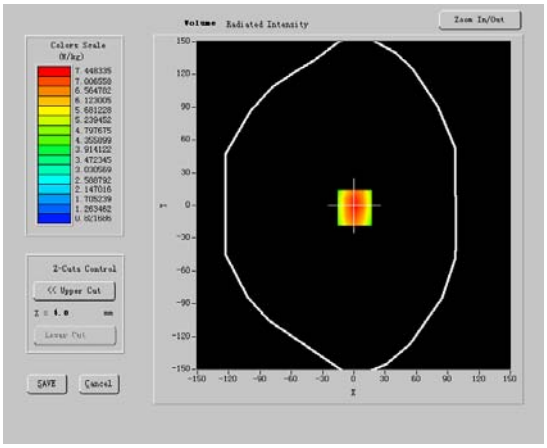
Phantom File	surf_sam_plan.txt, Adaptative 2 max
Phantom	Validation plane
Device Position	Dipole
Band	GSM850
Channels	Middle
Signal	CW

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

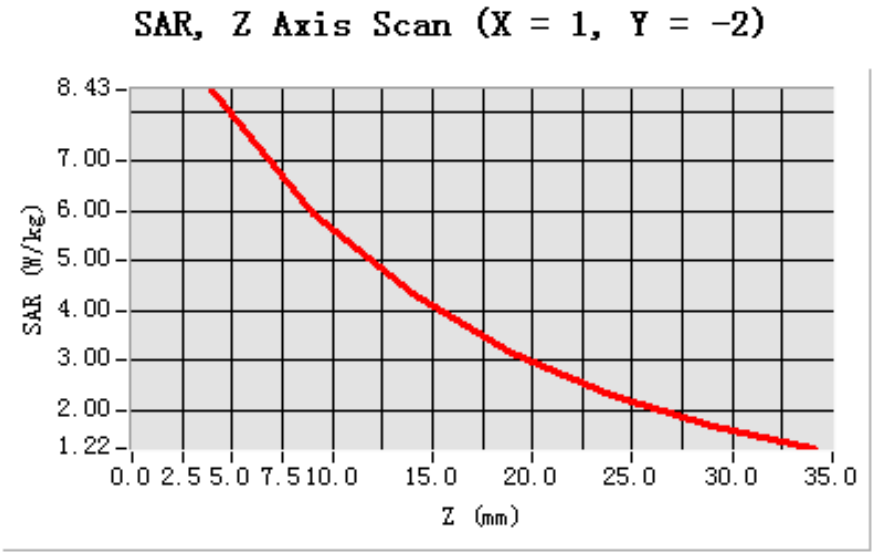
Frequency (MHz)	835.000024
Relative permitivity (real part)	55.502325
Relative permitivity (imaginary part)	22.120529
Conductivity (S/m)	0.966149
Variation (%)	0.240000

SURFACE SAR	**VOLUME SAR**
	

Maximum location: X=1.00, Y=-2.00

SAR 10g (W/Kg)	6.235653
SAR 1g (W/Kg)	9.623380

Z Axis Scan


SAR, Z Axis Scan (X = 1, Y = -2)
8.43
7.00
6.00
5.00
4.00
3.00
2.00
1.22
SAR (W/kg)
0.0 2.5 5.0 7.5 10.0 15.0 20.0 25.0 30.0 35.0
Z (mm)

1900 BODY VALIDATION

I. RESULTS

	TYPE	PARAMETERS
GSM1900	Noise	--
	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:25/03/2010

Measurement duration: 6 minutes 43 seconds

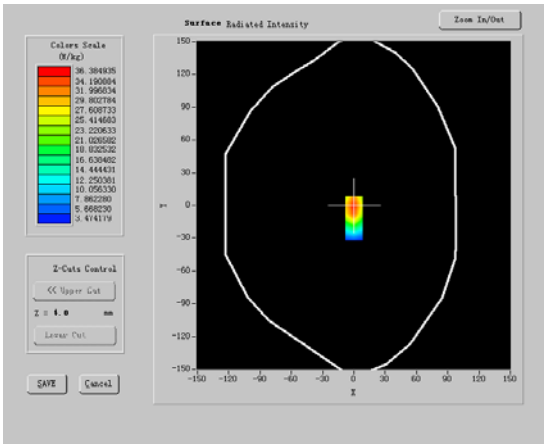
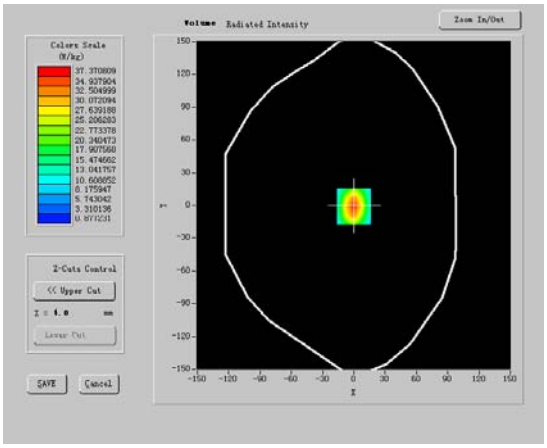
Mobile Phone IMEI number: --

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

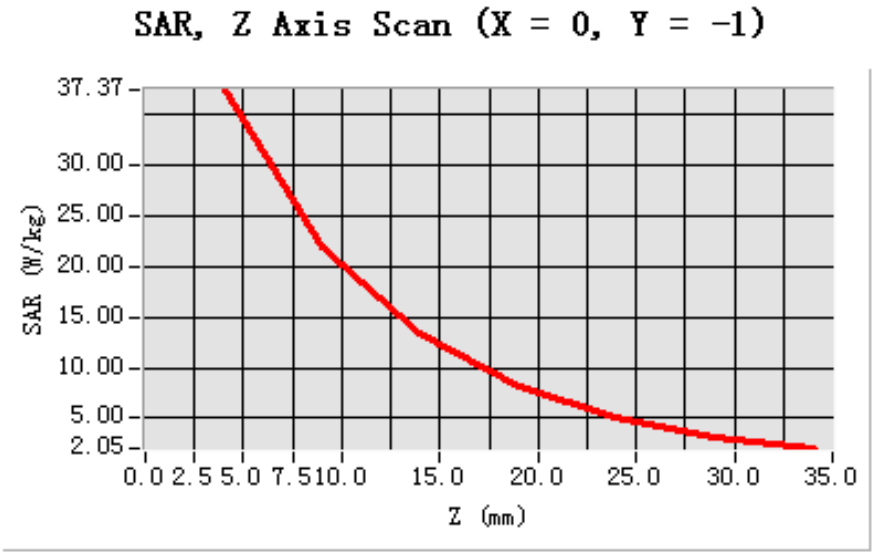
Frequency (MHz)	1880.000000
Relative permitivity (real part)	52.993168
Relative permitivity (imaginary part)	13.810000
Conductivity (S/m)	1.513290
Variation (%)	-0.500000

SURFACE SAR	**VOLUME SAR**
	

Maximum location: X=0.00, Y=-1.00

SAR 10g (W/Kg)	18.692125
SAR 1g (W/Kg)	38.958421

Z Axis Scan


SAR, Z Axis Scan (X = 0, Y = -1)
37.37
30.00
25.00
20.00
15.00
10.00
5.00
2.05
SAR (W/kg)
0.0 2.5 5.0 7.5 10.0 15.0 20.0 25.0 30.0 35.0
Z (mm)