

Appendix C

SAR System Validation Data

of

Product Name

802.11b/g/n RTL8191SE miniCard

Model

RTL8191SE

1. 2450 MHz System Validation Data

Report Date : 03-May-2010
Measurement Date : 03-May-2010

Product Data

Device Name : validation
Serial No. : 2450
Type : Dipole
Model : 2450
Frequency : 2450.00 MHz
Max. Transmit Pwr : 0.25 W
Drift Time : 0 min(s)
Length : 51.5 mm
Width : 3.6 mm
Depth : 5 mm
Antenna Type : Internal
Power Drift-Start : 1.622 W/kg
Power Drift-Finish: 1.547 W/kg
Power Drift (%) : -4.599

Phantom Data

Name : APREL-Uni
Type : Uni-Phantom
Size (mm) : 280 x 280 x 200
Location : Center

Tissue Data

Type : HEAD
Serial No. : 2450_Head
Frequency : 2450.00 MHz
Last Calib. Date : 03-May-2010
Temperature : 22.50 °C
Ambient Temp. : 23.00 °C
Humidity : 60.00 RH%
Epsilon : 40.43 F/m
Sigma : 1.78 S/m
Density : 1000.00 kg/cu. m

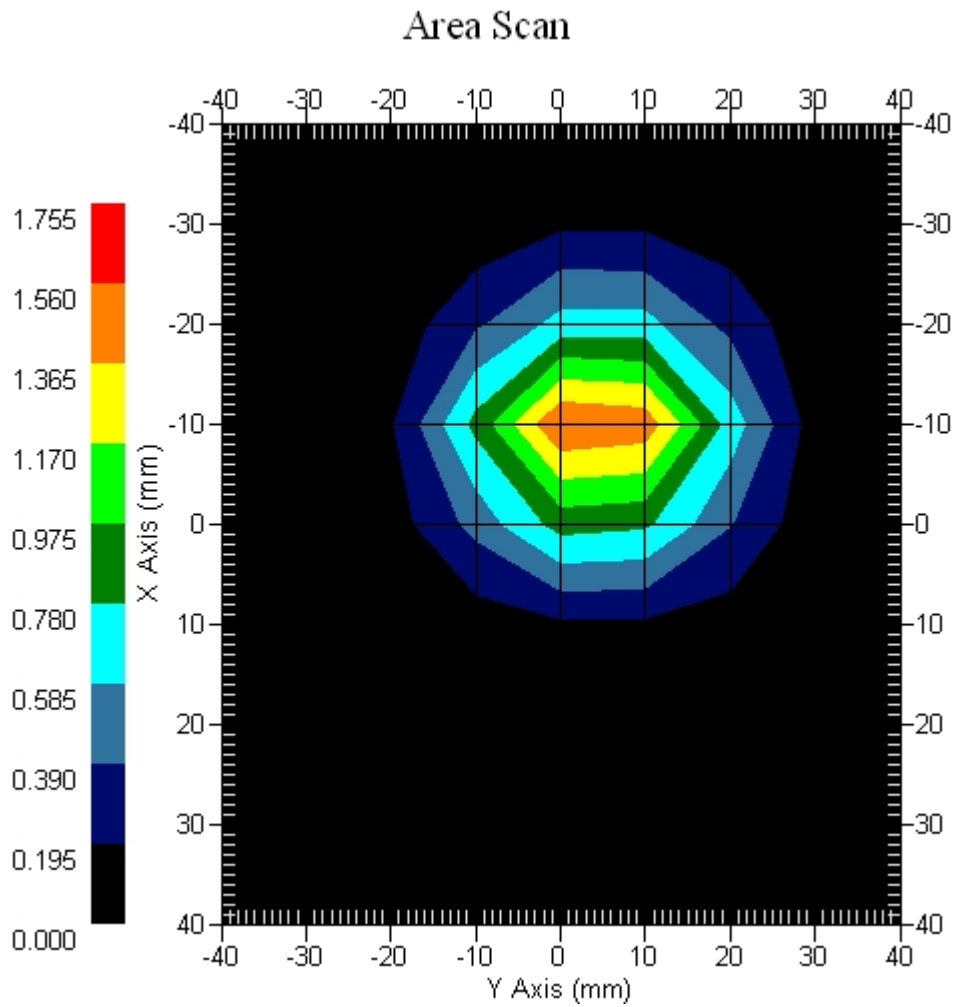
Probe Data

Name : E-field Probe
Model : ALS-E-020
Type : E-Field Triangle
Serial No. : 266
Last Calib. Date : 26-Apr-2010
Frequency : 2450.00 MHz
Duty Cycle Factor: 1
Conversion Factor: 5
Probe Sensitivity: 1.20 1.20 1.20 $\mu\text{V}/(\text{V}/\text{m})^2$
Compression Point: 95.00 mV
Offset : 1.56 mm

Measurement Data

Crest Factor : 1
Scan Type : Complete
Ambient Temp. : 23.00 °C
Set-up Date : 03-May-2010
Area Scan : 7x7x1 : Measurement x=10mm, y=10mm, z=4mm
Zoom Scan : 7x7x7 : Measurement x=5mm, y=5mm, z=5mm

Area Scan Plot



1 gram SAR value : 12.96 W/kg
10 gram SAR value : 5.800 W/kg
Area Scan Peak SAR : 15.61 W/kg
Zoom Scan Peak SAR : 26.22 W/kg

Z-Axis plot

SAR-Z Axis
at Hotspot x:0.07 y:7.91

