

5200MHz Measurement

Measurement Date : 28-Aug-2006

Product Data

Device Name : Atheros
Serial No. :
Type : Other
Model : 1
Frequency : 5260.00 MHz
Max. Transmit Pwr : 0.040 W
Drift Time : 0 min(s)
Length : 274 mm
Width : 32 mm
Depth : 10 mm
Antenna Type : Internal
Orientation : Touch

Phantom Data

Name : APREL-Uni
Type : Uni-Phantom
Size (mm) : 280 x 280 x 200
Serial No. : System Default
Location : Center
Description : uni_1

Tissue Data

Type : BODY
Serial No. : 5200BODY
Frequency : 5200.00 MHz
Last Calib. Date : 28-Aug-2006
Temperature : 22.20 °C
Ambient Temp. : 22.50 °C
Humidity : 45.00 RH%
Epsilon : 48.15 F/m
Sigma : 5.43 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 : 22-Jun-2006
Frequency : 2450.00 MHz
Duty Cycle Factor: 1
Conversion Factor: 4.4
Probe Sensitivity: 1.20 1.20 1.20 $\mu\text{V}/(\text{V}/\text{m})^2$
Compression Point: 95.00 mV
Offset : 2.44 mm

5800MHz Measurement

Measurement Date : 29-Aug-2006

Product Data

Device Name : Atheros
 Serial No. :
 Type : Other
 Model : 1
 Frequency : 5785.00 MHz
 Max. Transmit Pwr : 0.135 W
 Drift Time : 0 min(s)
 Length : 274 mm
 Width : 32 mm
 Depth : 10 mm
 Antenna Type : Internal
 Orientation : Touch

Phantom Data

Name : APREL-Uni
 Type : Uni-Phantom
 Size (mm) : 280 x 280 x 200
 Serial No. : System Default
 Location : Center
 Description : uni_1

Tissue Data

Type : BODY
 Serial No. : 5800BODY
 Frequency : 5800.00 MHz
 Last Calib. Date : 29-Aug-2006
 Temperature : 22.30 °C
 Ambient Temp. : 22.70 °C
 Humidity : 47.00 RH%
 Epsilon : 47.13 F/m
 Sigma : 6.18 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 : 22-Jun-2006
 Frequency : 2450.00 MHz
 Duty Cycle Factor : 1
 Conversion Factor : 4.2
 Probe Sensitivity : 1.20 1.20 1.20 $\mu\text{V}/(\text{V/m})^2$
 Compression Point : 95.00 mV
 Offset : 2.44 mm

11.1 802.11b mode

11.1.1 2437 MHz, EUT Position: Tablet,PL, Main Antenna

Measurement Data

Crest Factor : 1
 Scan Type : Complete
 Area Scan : 9x6x1 : Measurement x=10mm, y=10mm, z=4mm
 Zoom Scan : 5x5x8 : Measurement x=8mm, y=8mm, z=4mm

Other Data

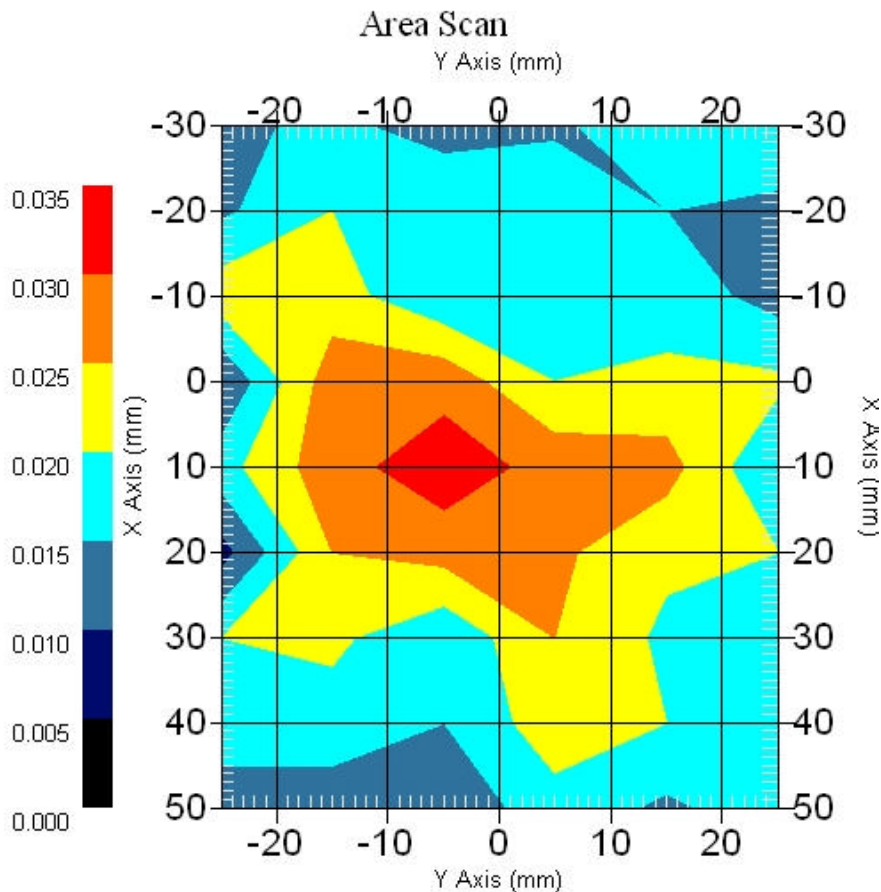
DUT Position : Touch
 Separation : 0
 Channel : Mid - 2437MHz

Power Drift-Start : 0.027 W/kg

Power Drift-Finish: 0.025 W/kg

Power Drift (%) : -4.166

Picture :



1 gram SAR value : 0.043 W/kg

10 gram SAR value : 0.033 W/kg

Area Scan Peak SAR : 0.033 W/kg

Zoom Scan Peak SAR : 0.064 W/kg

11.1.2 2437 MHz, EUT Position: Tablet,PP, Aux Antenna

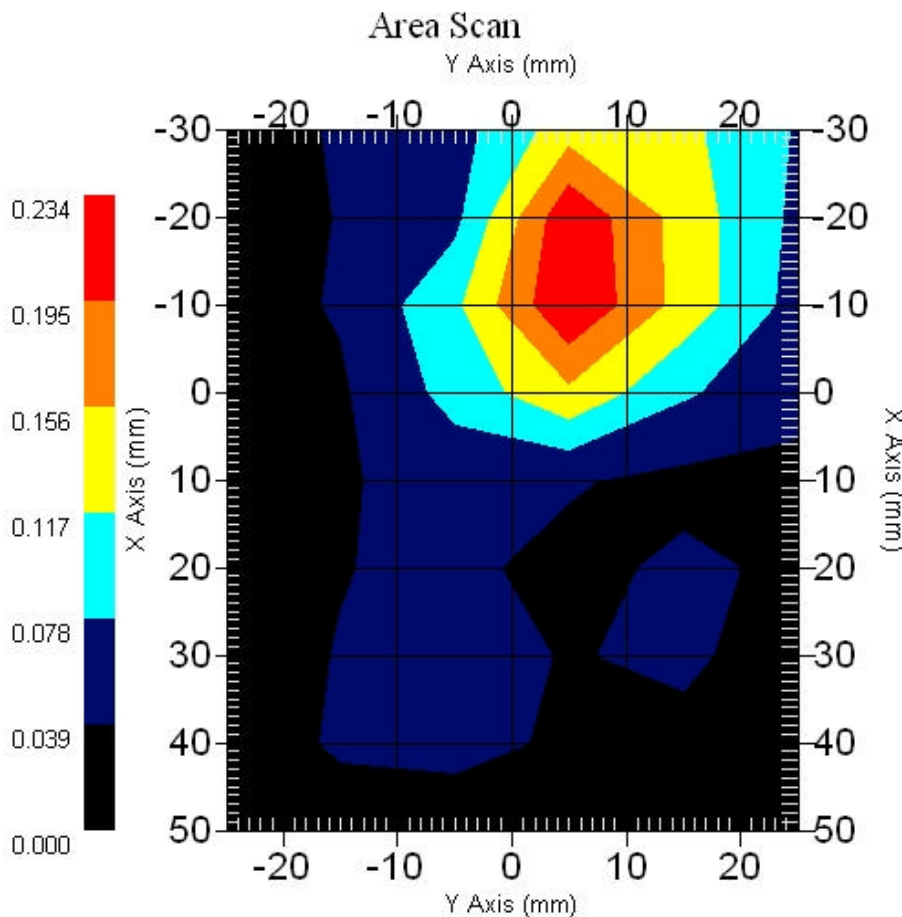
Measurement Data

Crest Factor : 1
 Scan Type : Complete
 Area Scan : 9x6x1 : Measurement x=10mm, y=10mm, z=4mm
 Zoom Scan : 5x5x8 : Measurement x=8mm, y=8mm, z=4mm

Other Data

DUT Position : Touch
 Separation : 0
 Channel : Mid - 2437MHz

Power Drift-Start : 0.123 W/kg
 Power Drift-Finish: 0.123 W/kg
 Power Drift (%) : 0.007
 Picture :



1 gram SAR value : 0.203 W/kg
 10 gram SAR value : 0.102 W/kg
 Area Scan Peak SAR : 0.233 W/kg
 Zoom Scan Peak SAR : 0.410 W/kg

11.1.3 2437 MHz, EUT Position: Tablet,SL, Main Antenna

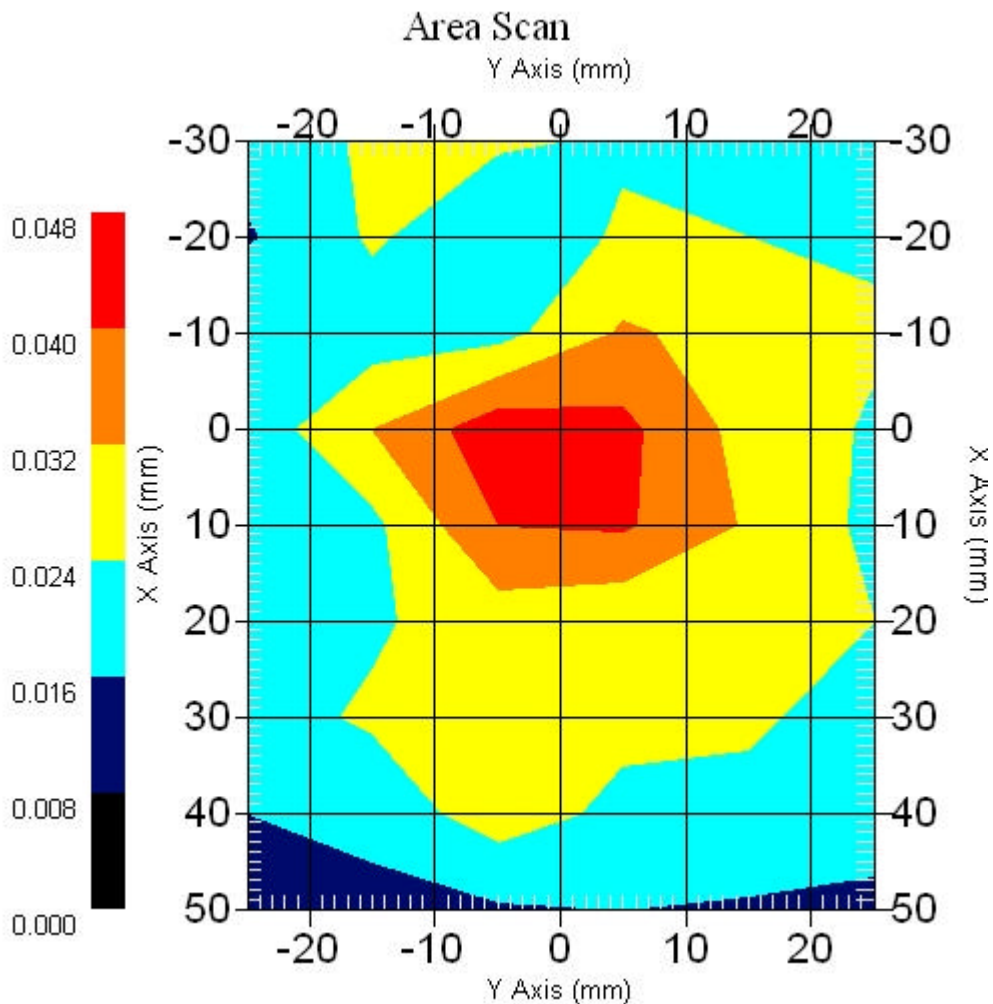
Measurement Data

Crest Factor : 1
 Scan Type : Complete
 Area Scan : 9x6x1 : Measurement x=10mm, y=10mm, z=4mm
 Zoom Scan : 5x5x8 : Measurement x=8mm, y=8mm, z=4mm

Other Data

DUT Position : Touch
 Separation : 0
 Channel : Mid - 2437MHz

Power Drift-Start : 0.030 W/kg
 Power Drift-Finish: 0.029 W/kg
 Power Drift (%) : -3.333
 Picture : (No picture)



1 gram SAR value : 0.053 W/kg
 10 gram SAR value : 0.041 W/kg
 Area Scan Peak SAR : 0.046 W/kg
 Zoom Scan Peak SAR : 0.076 W/kg

11.1.4 2437 MHz, EUT Position: Tablet,SP, Main Antenna

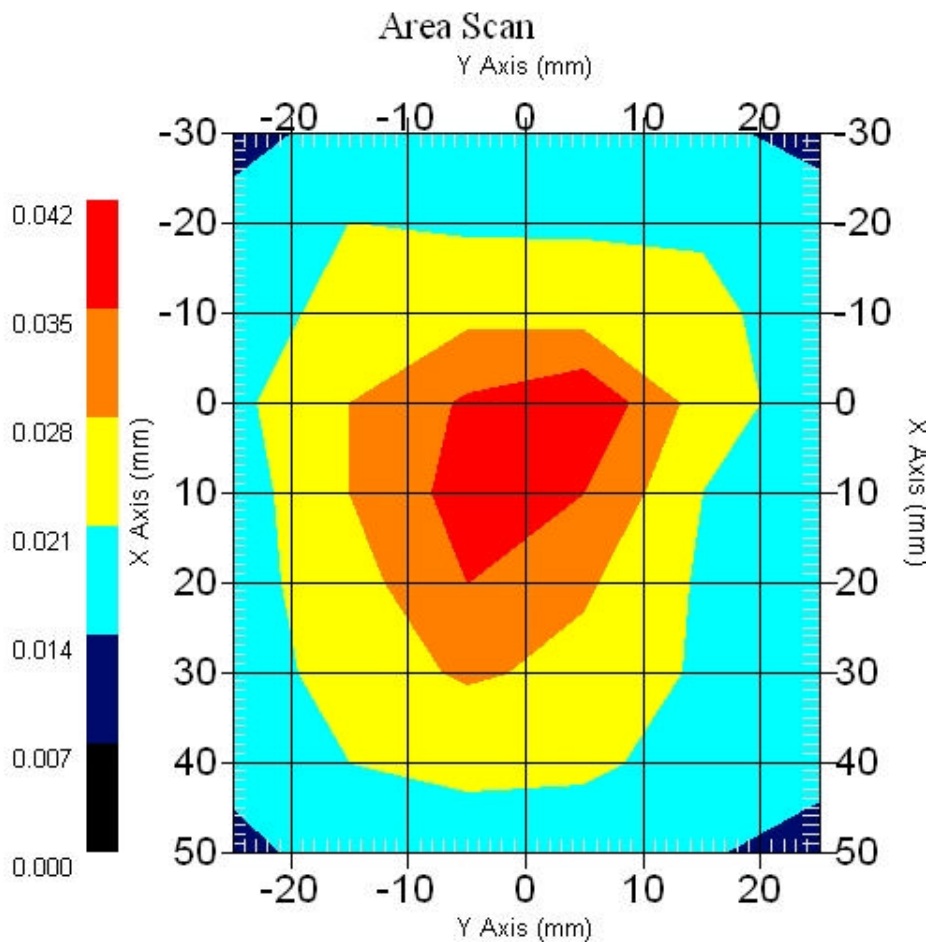
Measurement Data

Crest Factor : 1
 Scan Type : Complete
 Area Scan : 9x6x1 : Measurement x=10mm, y=10mm, z=4mm
 Zoom Scan : 5x5x8 : Measurement x=8mm, y=8mm, z=4mm

Other Data

DUT Position : Touch
 Separation : 0
 Channel : Mid - 2437MHz

Power Drift-Start : 0.044 W/kg
 Power Drift-Finish: 0.043 W/kg
 Power Drift (%) : -0.011
 Picture : (No picture)



1 gram SAR value : 0.037 W/kg
 10 gram SAR value : 0.024 W/kg
 Area Scan Peak SAR : 0.041 W/kg
 Zoom Scan Peak SAR : 0.079 W/kg

11.1.5 2437 MHz, EUT Position: Laptop, Main Antenna

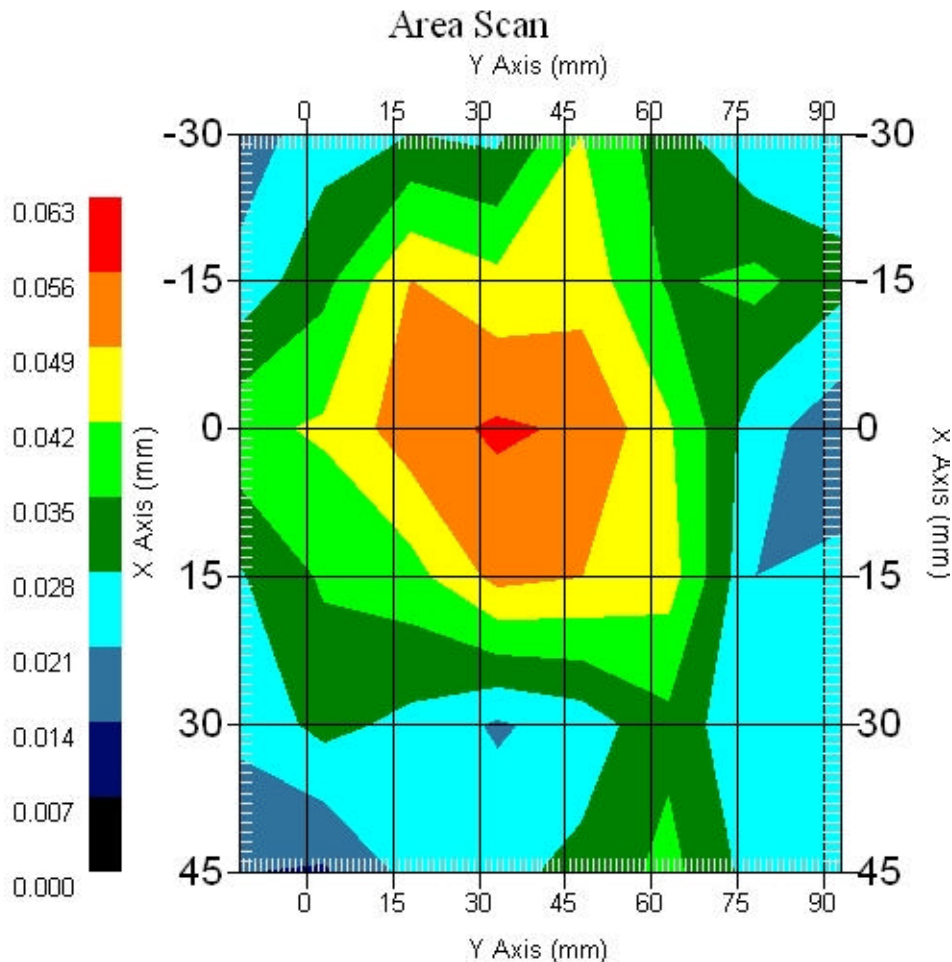
Measurement Data

Crest Factor : 1
 Scan Type : Complete
 Area Scan : 6x8x1 : Measurement x=15mm, y=15mm, z=4mm
 Zoom Scan : 5x5x8 : Measurement x=8mm, y=8mm, z=4mm

Other Data

DUT Position : Touch
 Separation : 0
 Channel : Mid - 2437MHz

Power Drift-Start : 0.044 W/kg
 Power Drift-Finish: 0.045 W/kg
 Power Drift (%) : 2.272
 Picture :



1 gram SAR value : 0.067 W/kg
 10 gram SAR value : 0.044 W/kg
 Area Scan Peak SAR : 0.057 W/kg
 Zoom Scan Peak SAR : 0.110 W/kg

11.1.6 2437 MHz, EUT Position: Laptop,Aux Antenna

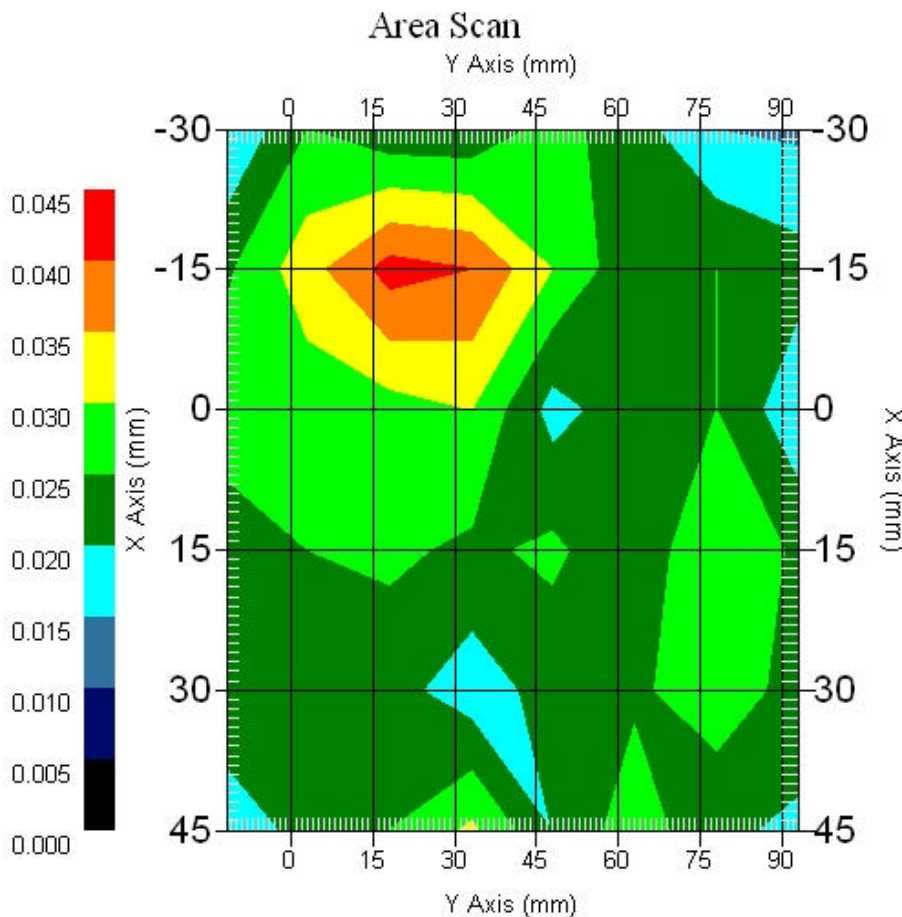
Measurement Data

Crest Factor : 1
 Scan Type : Complete
 Area Scan : 6x8x1 : Measurement x=15mm, y=15mm, z=4mm
 Zoom Scan : 5x5x8 : Measurement x=8mm, y=8mm, z=4mm

Other Data

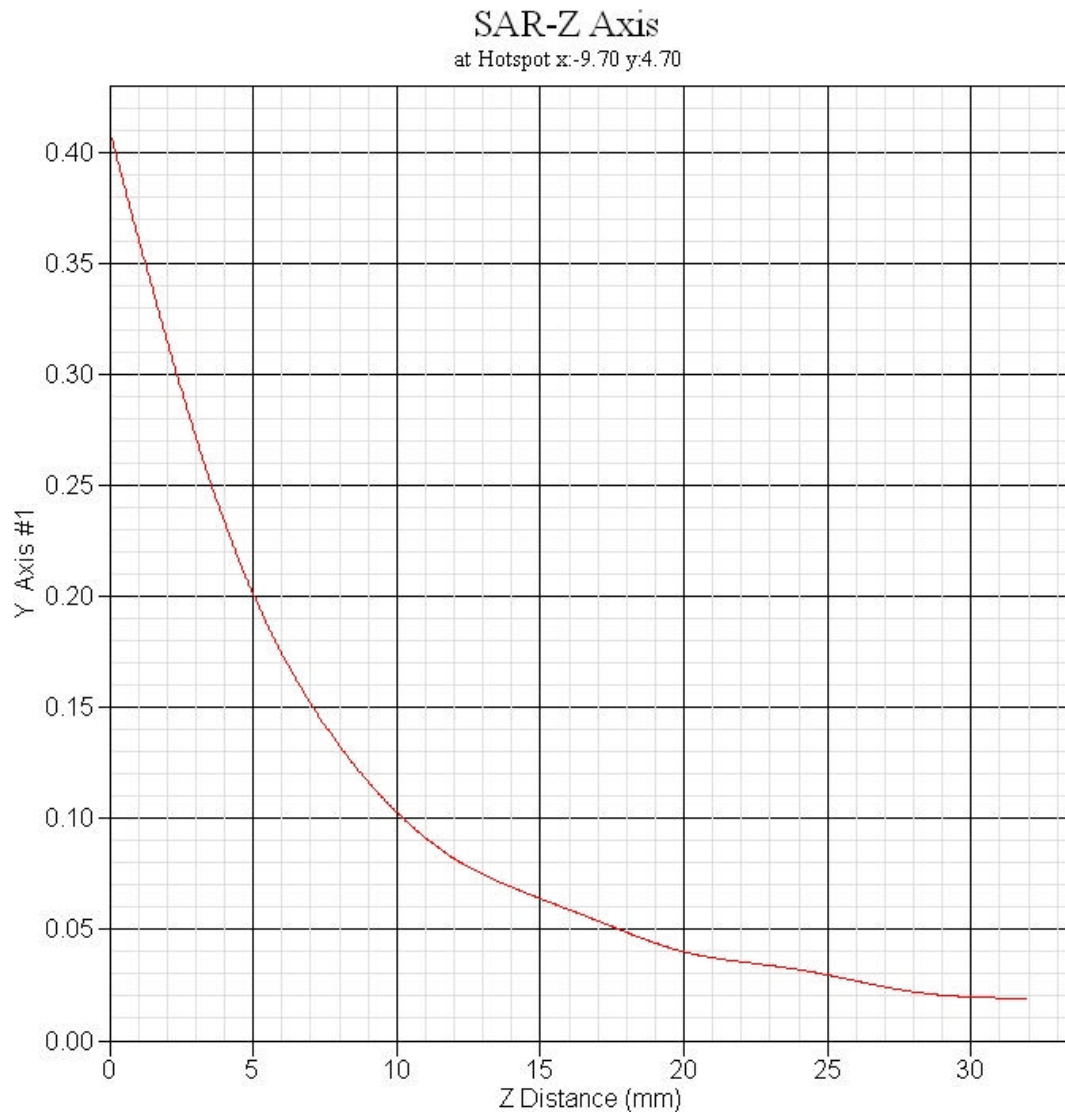
DUT Position : Touch
 Separation : 0
 Channel : Mid - 2437MHz

Power Drift-Start : 0.026 W/kg
 Power Drift-Finish: 0.025 W/kg
 Power Drift (%) : -3.846
 Picture : (No picture)



1 gram SAR value : 0.033 W/kg
 10 gram SAR value : 0.024 W/kg
 Area Scan Peak SAR : 0.042 W/kg
 Zoom Scan Peak SAR : 0.078 W/kg

11.1.7 Z Axis 2437 MHz, EUT Position: Tablet,PP, Aux Antenna



11.2 802.11g mode

11.2.1 2437 MHz, EUT Position: Tablet,PL, Main Antenna

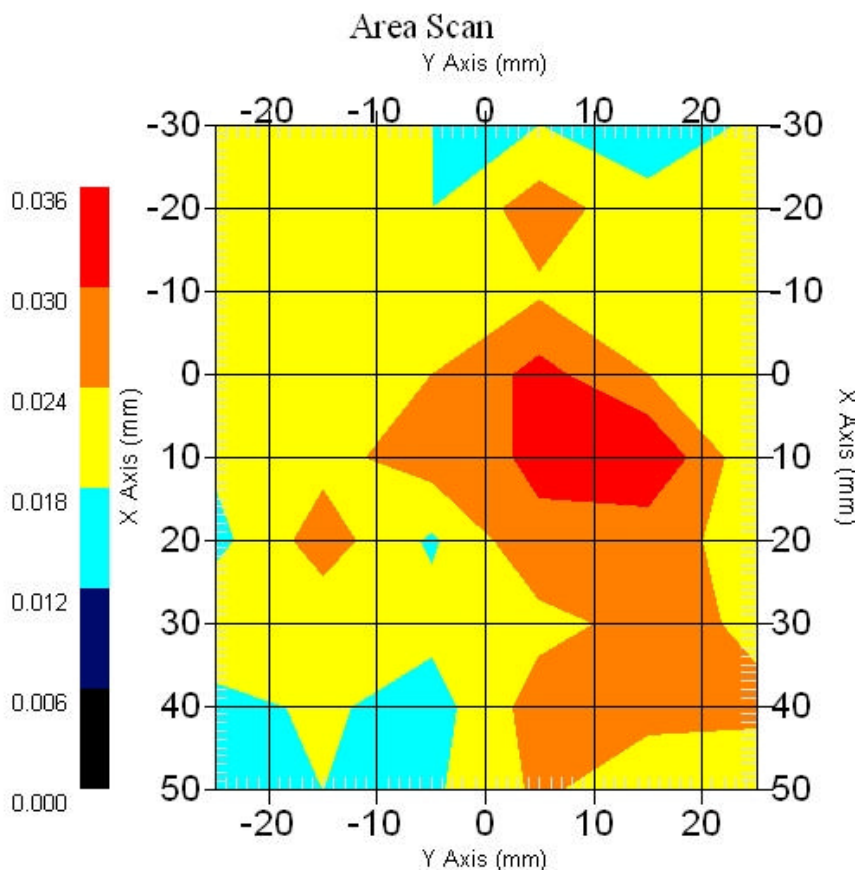
Measurement Data

Crest Factor : 1
 Scan Type : Complete
 Area Scan : 9x6x1 : Measurement x=10mm, y=10mm, z=4mm
 Zoom Scan : 5x5x8 : Measurement x=8mm, y=8mm, z=4mm

Other Data

DUT Position : Touch
 Separation : 0
 Channel : Mid - 2437MHz

Power Drift-Start : 0.029 W/kg
 Power Drift-Finish: 0.030 W/kg
 Power Drift (%) : 3.448
 Picture : (No picture)



1 gram SAR value : 0.041 W/kg
 10 gram SAR value : 0.032 W/kg
 Area Scan Peak SAR : 0.036 W/kg
 Zoom Scan Peak SAR : 0.078 W/kg

11.2.2 2437 MHz, EUT Position: Tablet,PP, Aux Antenna

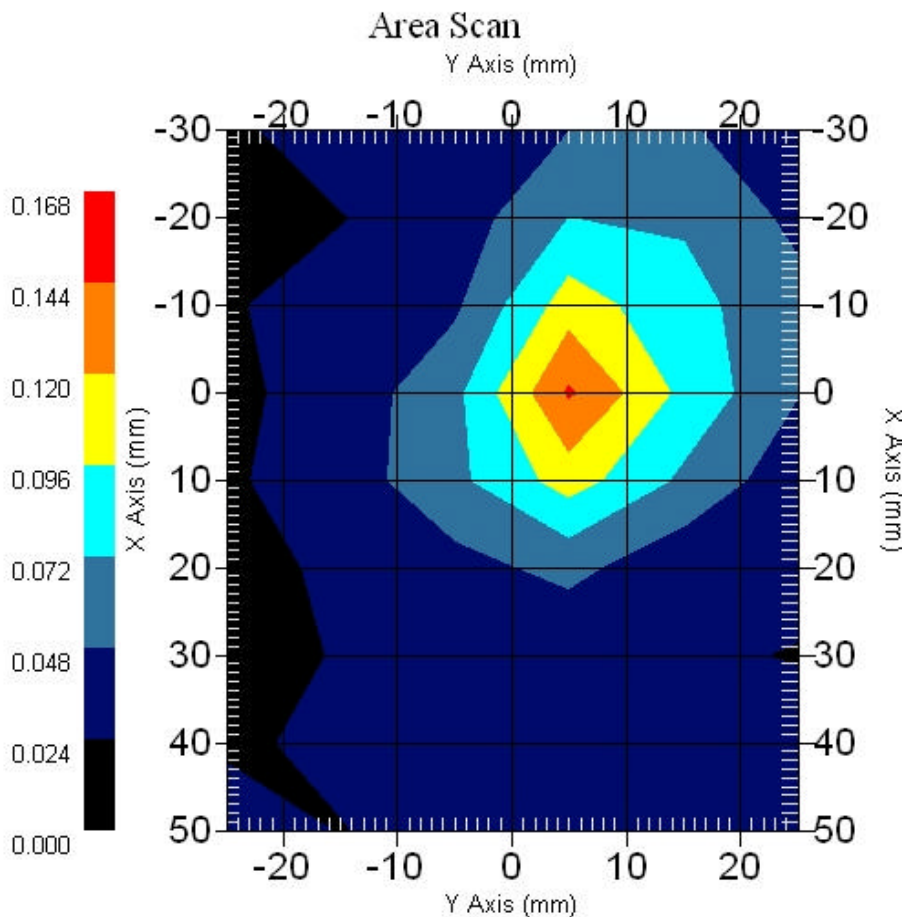
Measurement Data

Crest Factor : 1
 Scan Type : Complete
 Area Scan : 9x6x1 : Measurement x=10mm, y=10mm, z=4mm
 Zoom Scan : 5x5x8 : Measurement x=8mm, y=8mm, z=4mm

Other Data

DUT Position : Touch
 Separation : 0
 Channel : Mid - 2437MHz

Power Drift-Start : 0.086 W/kg
 Power Drift-Finish: 0.083 W/kg
 Power Drift (%) : -3.421
 Picture :



1 gram SAR value : 0.118 W/kg
 10 gram SAR value : 0.062 W/kg
 Area Scan Peak SAR : 0.147 W/kg
 Zoom Scan Peak SAR : 0.240 W/kg

11.2.3 2437 MHz, EUT Position: Tablet,SL, Main Antenna

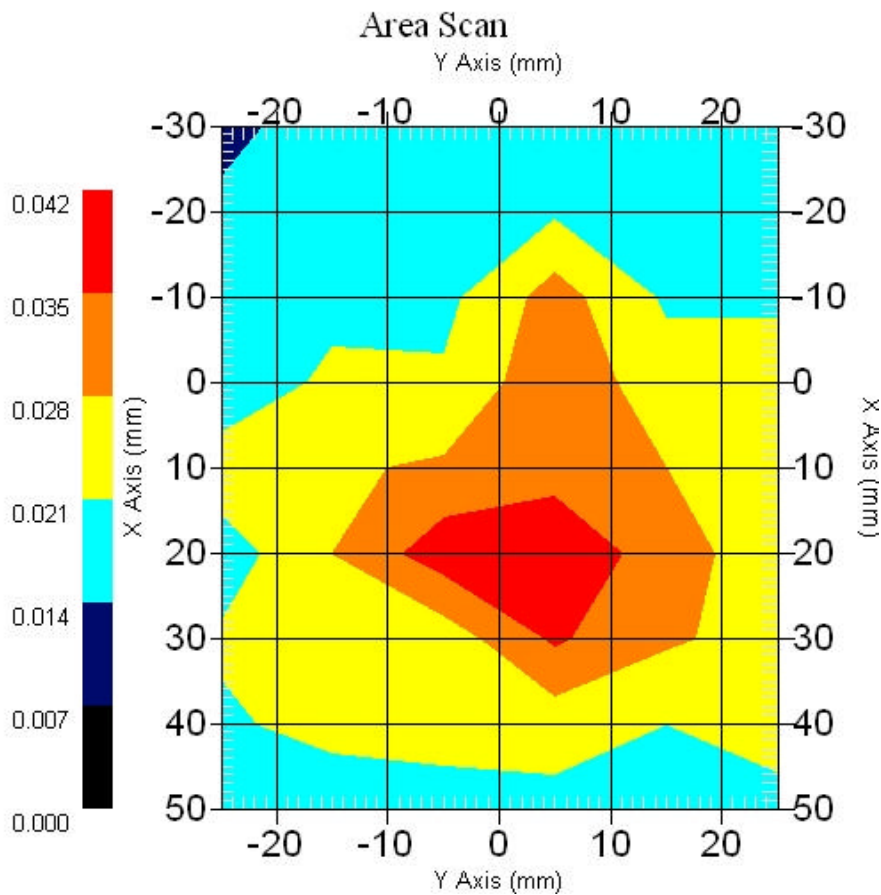
Measurement Data

Crest Factor : 1
 Scan Type : Complete
 Area Scan : 9x6x1 : Measurement x=10mm, y=10mm, z=4mm
 Zoom Scan : 5x5x8 : Measurement x=8mm, y=8mm, z=4mm

Other Data

DUT Position : Touch
 Separation : 0
 Channel : Mid - 2437MHz

Power Drift-Start : 0.028 W/kg
 Power Drift-Finish: 0.028 W/kg
 Power Drift (%) : -0.014
 Picture : (No picture)



1 gram SAR value : 0.039 W/kg
 10 gram SAR value : 0.030 W/kg
 Area Scan Peak SAR : 0.042 W/kg
 Zoom Scan Peak SAR : 0.080 W/kg

11.2.4 2437 MHz, EUT Position: Tablet,SP, Aux Antenna

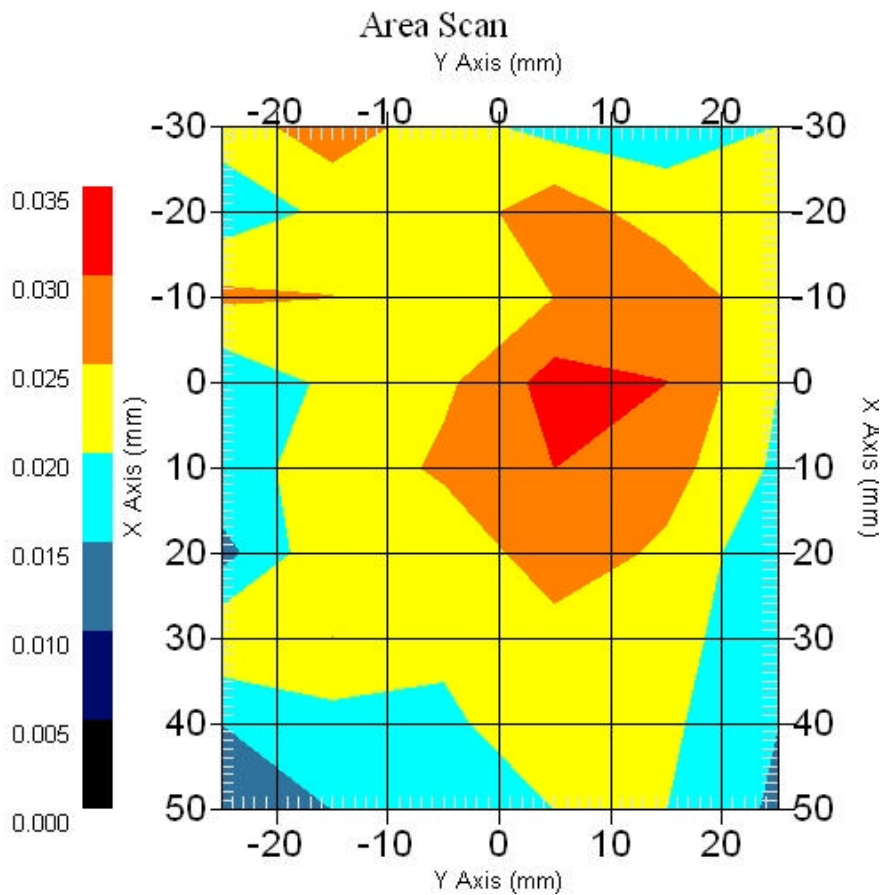
Measurement Data

Crest Factor : 1
 Scan Type : Complete
 Area Scan : 9x6x1 : Measurement x=10mm, y=10mm, z=4mm
 Zoom Scan : 5x5x8 : Measurement x=8mm, y=8mm, z=4mm

Other Data

DUT Position : Touch
 Separation : 0
 Channel : Mid - 2437MHz

Power Drift-Start : 0.028 W/kg
 Power Drift-Finish: 0.027 W/kg
 Power Drift (%) : -3.571
 Picture : (No picture)



1 gram SAR value : 0.058 W/kg
 10 gram SAR value : 0.037 W/kg
 Area Scan Peak SAR : 0.033 W/kg
 Zoom Scan Peak SAR : 0.101 W/kg

11.2.5 2437 MHz, EUT Position: Laptop, Main

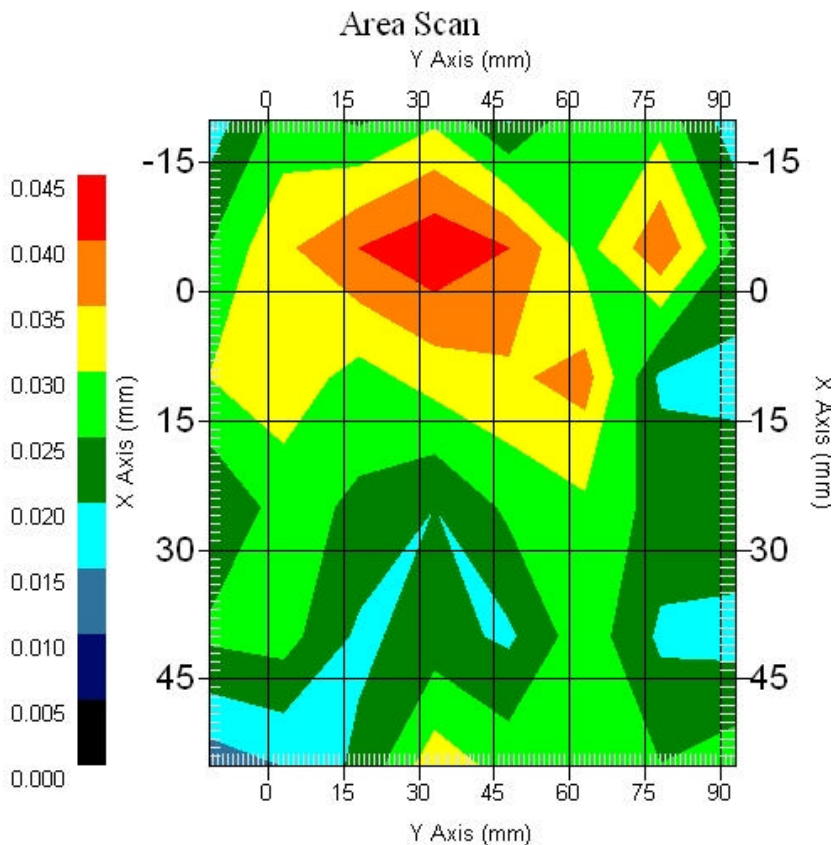
Measurement Data

Crest Factor : 1
 Scan Type : Complete
 Area Scan : 6x8x1 : Measurement x=15mm, y=15mm, z=4mm
 Zoom Scan : 5x5x8 : Measurement x=8mm, y=8mm, z=4mm

Other Data

DUT Position : Touch
 Separation : 0
 Channel : Mid - 2437MHz

Power Drift-Start : 0.027 W/kg
 Power Drift-Finish: 0.026 W/kg
 Power Drift (%) : -3.703
 Picture :



1 gram SAR value : 0.049 W/kg
 10 gram SAR value : 0.039 W/kg
 Area Scan Peak SAR : 0.044 W/kg
 Zoom Scan Peak SAR : 0.080 W/kg

11.2.6 2437 MHz, EUT Position: Laptop, Aux Antenna

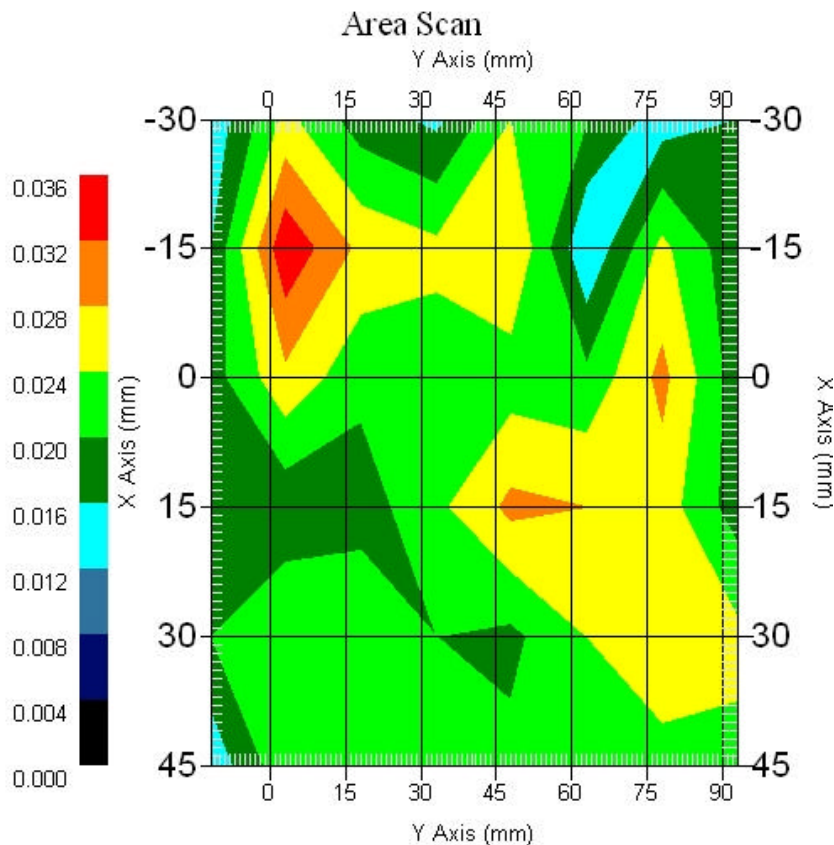
Measurement Data

Crest Factor : 1
 Scan Type : Complete
 Area Scan : 6x8x1 : Measurement x=15mm, y=15mm, z=4mm
 Zoom Scan : 5x5x8 : Measurement x=8mm, y=8mm, z=4mm

Other Data

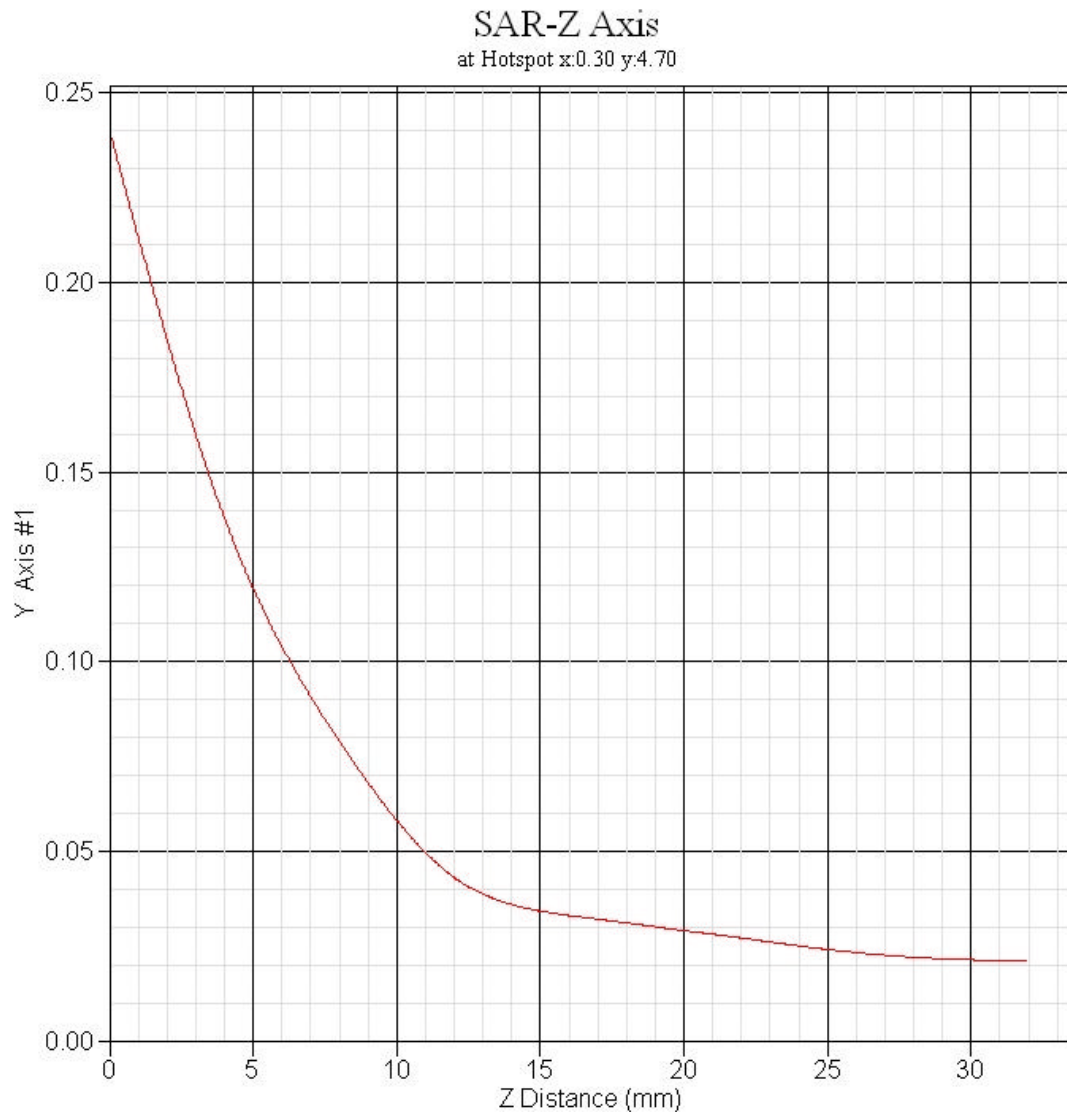
DUT Position : Touch
 Separation : 0
 Channel : Mid - 2437MHz

Power Drift-Start : 0.020 W/kg
 Power Drift-Finish: 0.020 W/kg
 Power Drift (%) : -0.009
 Picture : (No picture)



1 gram SAR value : 0.023 W/kg
 10 gram SAR value : 0.020 W/kg
 Area Scan Peak SAR : 0.035 W/kg
 Zoom Scan Peak SAR : 0.067 W/kg

11.2.7 Z Axis 2437 MHz, EUT Position: Tablet,PP, Aux Antenna



11.3 802.11a mode (5150MHz ~ 5350MHz)

11.3.1 5260 MHz, EUT Position: Tablet,PL, Main Antenna

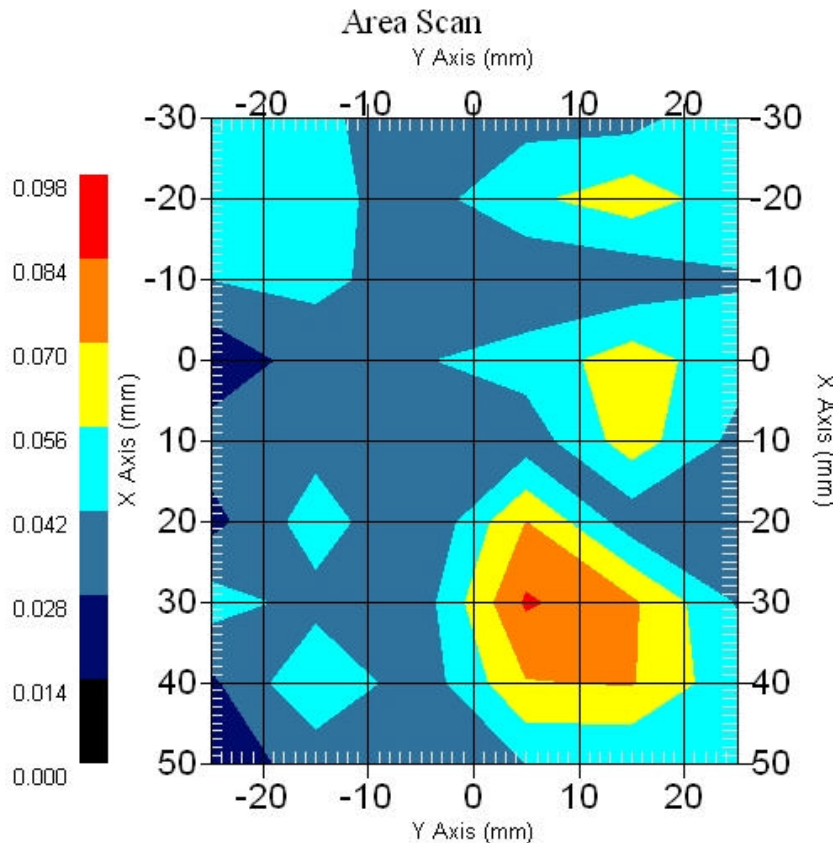
Measurement Data

Crest Factor : 1
 Scan Type : Complete
 Area Scan : 9x6x1 : Measurement x=10mm, y=10mm, z=4mm
 Zoom Scan : 9x9x13 : Measurement x=4mm, y=4mm, z=2.5mm

Other Data

DUT Position : Touch
 Separation : 0
 Channel : Mid - 5260MHz

Power Drift-Start : 0.060 W/kg
 Power Drift-Finish: 0.060 W/kg
 Power Drift (%) : 0.009
 Picture : (No picture)



1 gram SAR value : 0.113 W/kg
 10 gram SAR value : 0.075 W/kg
 Area Scan Peak SAR : 0.086 W/kg
 Zoom Scan Peak SAR : 0.290 W/kg

11.3.2 5260 MHz, EUT Position: Tablet,PP, Aux Antenna

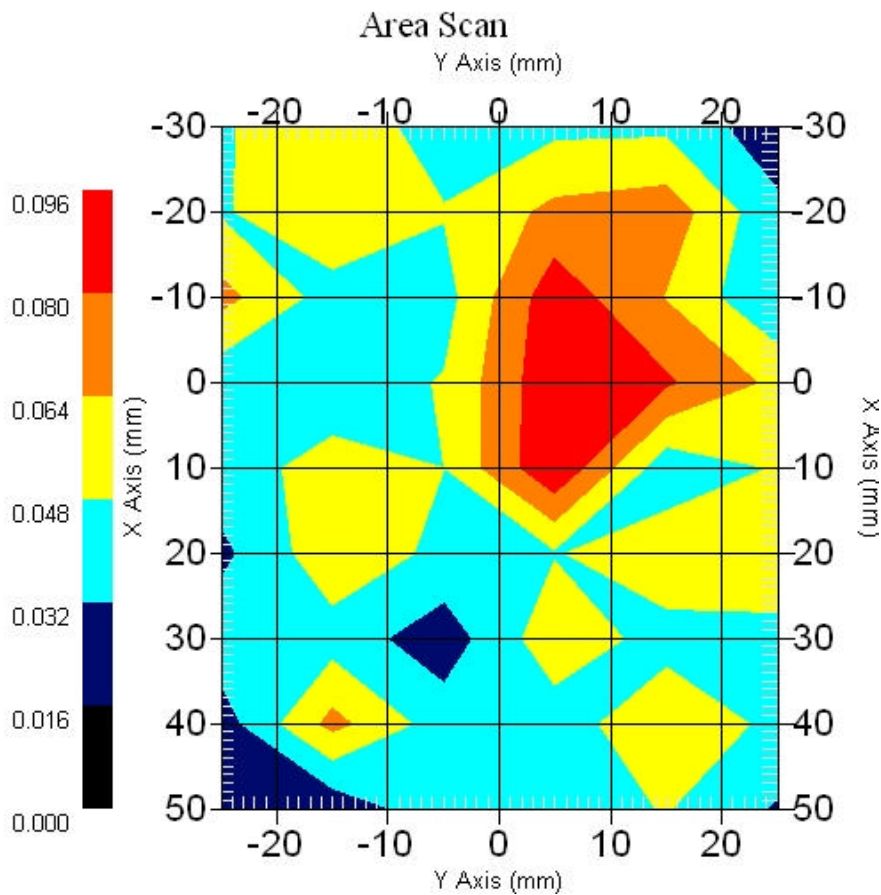
Measurement Data

Crest Factor : 1
 Scan Type : Complete
 Area Scan : 9x6x1 : Measurement x=10mm, y=10mm, z=4mm
 Zoom Scan : 9x9x13 : Measurement x=4mm, y=4mm, z=2.5mm

Other Data

DUT Position : Touch
 Separation : 0
 Channel : Mid - 5260MHz

Power Drift-Start : 0.078 W/kg
 Power Drift-Finish: 0.075 W/kg
 Power Drift (%) : -3.846
 Picture : (No picture)



1 gram SAR value : 0.107 W/kg
 10 gram SAR value : 0.064 W/kg
 Area Scan Peak SAR : 0.094 W/kg
 Zoom Scan Peak SAR : 0.181 W/kg

11.3.3 5260 MHz, EUT Position: Tablet,SL, Main Antenna

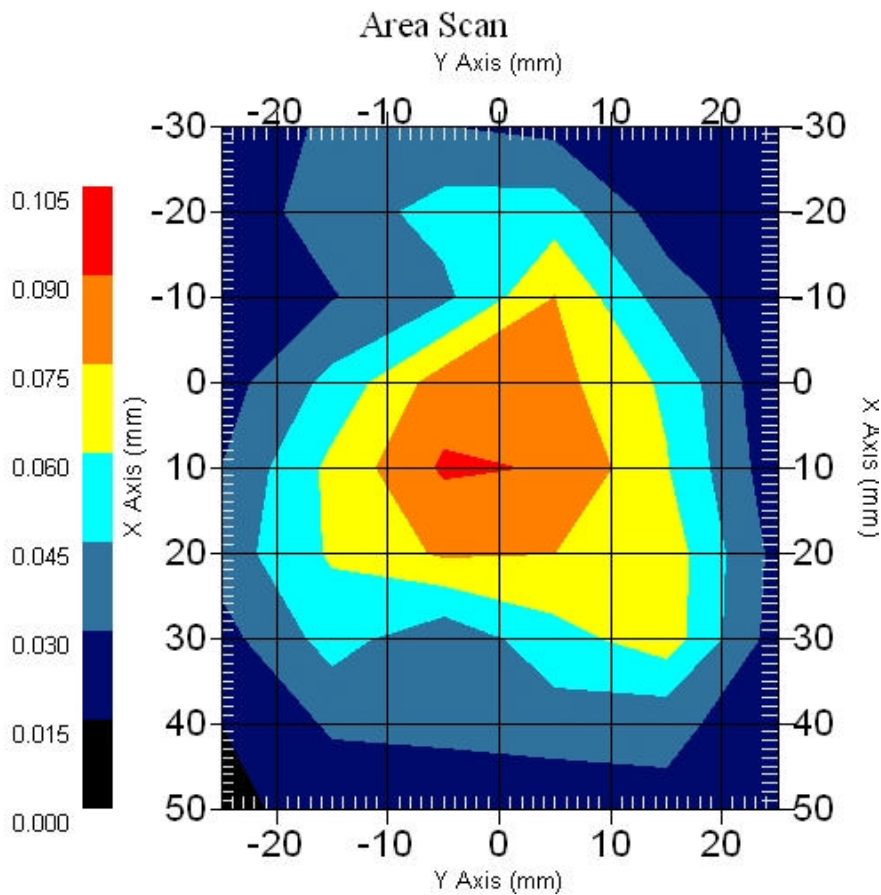
Measurement Data

Crest Factor : 1
 Scan Type : Complete
 Area Scan : 9x6x1 : Measurement x=10mm, y=10mm, z=4mm
 Zoom Scan : 9x9x13 : Measurement x=4mm, y=4mm, z=2.5mm

Other Data

DUT Position : Touch
 Separation : 0
 Channel : Mid - 5260MHz

Power Drift-Start : 0.067 W/kg
 Power Drift-Finish: 0.064 W/kg
 Power Drift (%) : -4.477
 Picture : (No picture)



1 gram SAR value : 0.093 W/kg
 10 gram SAR value : 0.063 W/kg
 Area Scan Peak SAR : 0.096 W/kg
 Zoom Scan Peak SAR : 0.171 W/kg

11.3.4 5260 MHz, EUT Position: Tablet,SP, Aux Antenna

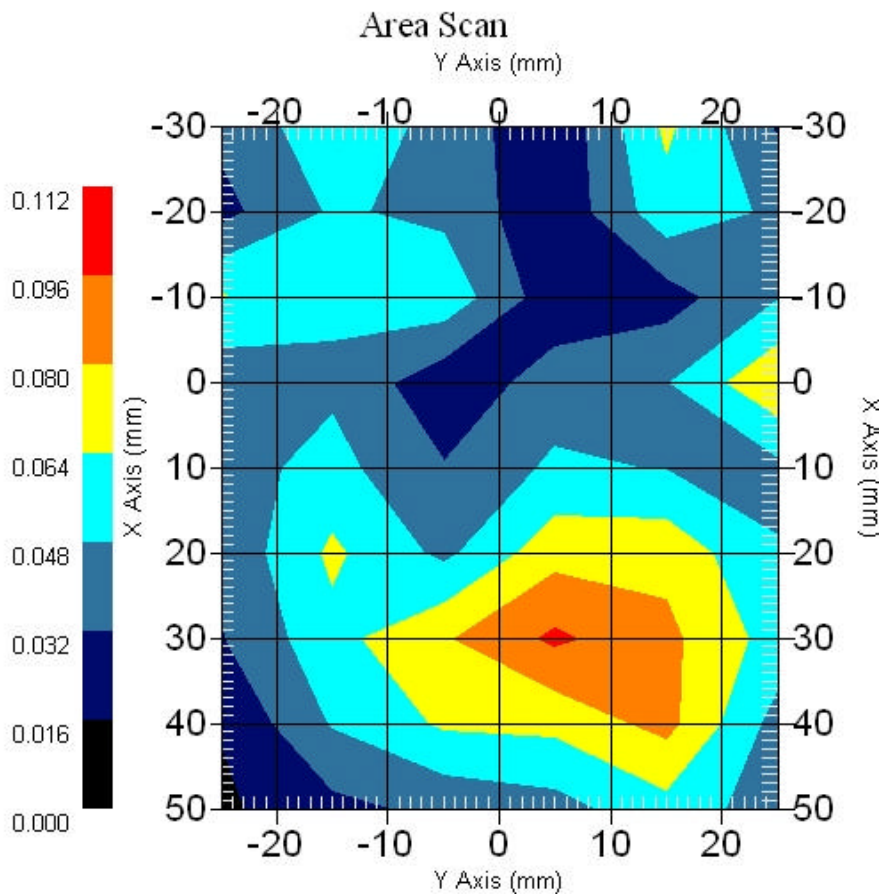
Measurement Data

Crest Factor : 1
 Scan Type : Complete
 Area Scan : 9x6x1 : Measurement x=10mm, y=10mm, z=4mm
 Zoom Scan : 9x9x13 : Measurement x=4mm, y=4mm, z=2.5mm

Other Data

DUT Position : Touch
 Separation : 0
 Channel : Mid - 5260MHz

Power Drift-Start : 0.072 W/kg
 Power Drift-Finish: 0.075 W/kg
 Power Drift (%) : 4.166
 Picture : (No picture)



1 gram SAR value : 0.079 W/kg
 10 gram SAR value : 0.083 W/kg
 Area Scan Peak SAR : 0.098 W/kg
 Zoom Scan Peak SAR : 0.200 W/kg

11.3.5 5260 MHz, EUT Position: Laptop, Main Antenna

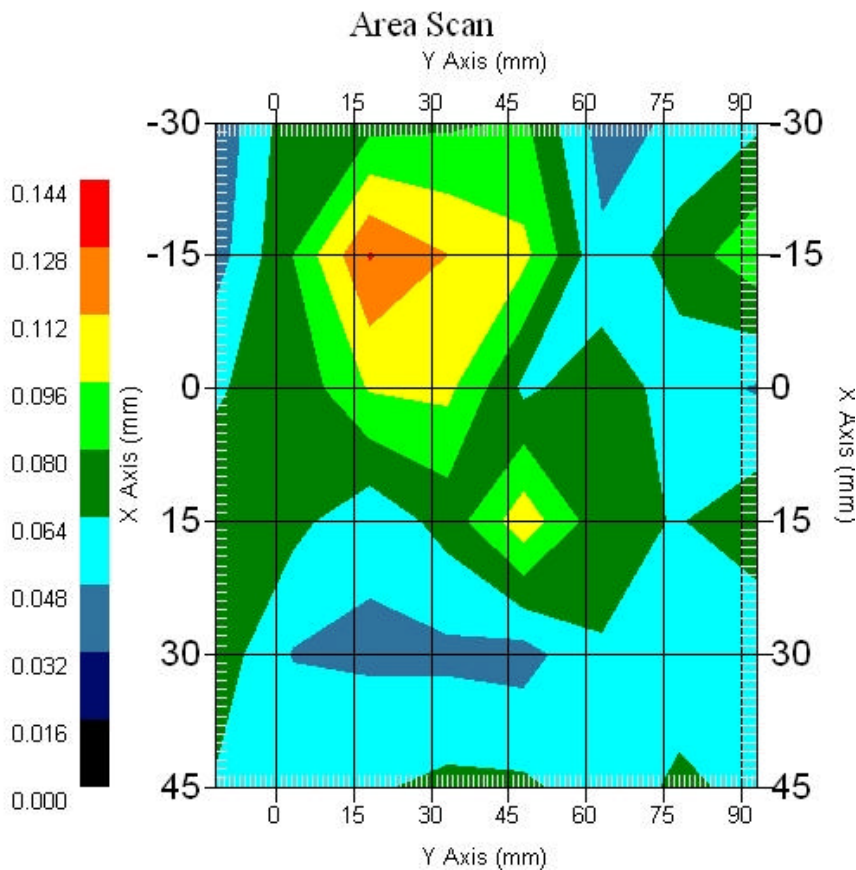
Measurement Data

Crest Factor : 1
 Scan Type : Complete
 Area Scan : 6x8x1 : Measurement x=15mm, y=15mm, z=4mm
 Zoom Scan : 9x9x13 : Measurement x=4mm, y=4mm, z=2.5mm

Other Data

DUT Position : Touch
 Separation : 0
 Channel : Mid - 5260MHz

Power Drift-Start : 0.071 W/kg
 Power Drift-Finish: 0.069 W/kg
 Power Drift (%) : -1.499
 Picture :



1 gram SAR value : 0.166 W/kg
 10 gram SAR value : 0.094 W/kg
 Area Scan Peak SAR : 0.129 W/kg
 Zoom Scan Peak SAR : 0.360 W/kg

11.3.6 5260 MHz, EUT Position: Laptop, Aux Antenna

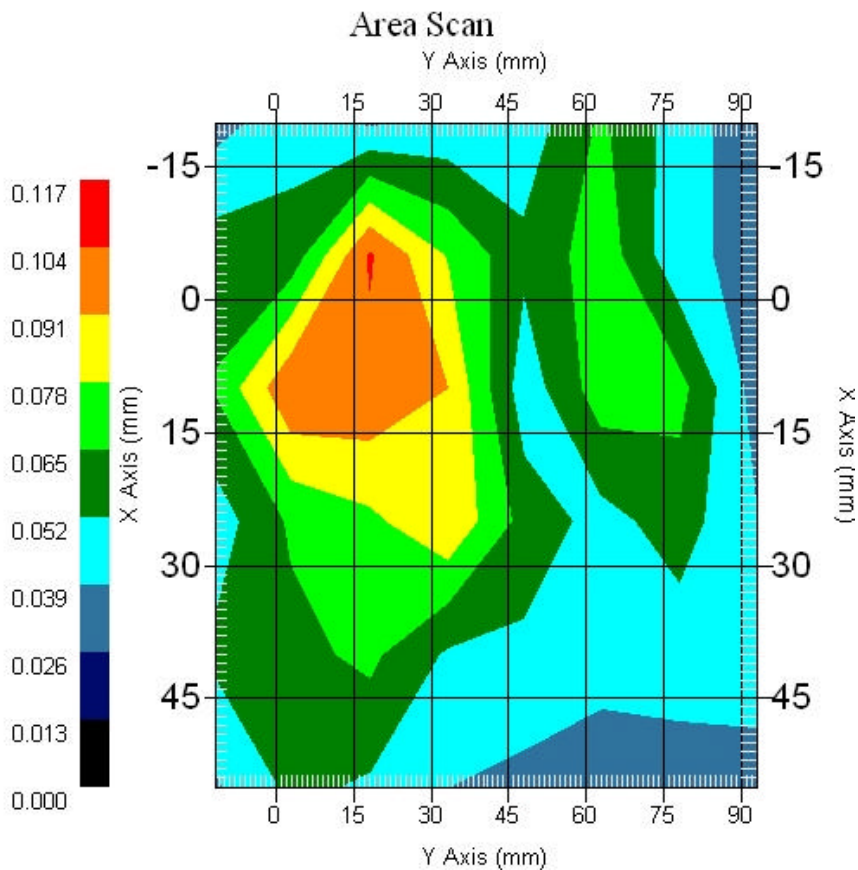
Measurement Data

Crest Factor : 1
 Scan Type : Complete
 Area Scan : 6x8x1 : Measurement x=15mm, y=15mm, z=4mm
 Zoom Scan : 9x9x13 : Measurement x=4mm, y=4mm, z=2.5mm

Other Data

DUT Position : Touch
 Separation : 0
 Channel : Mid - 5260MHz

Power Drift-Start : 0.051 W/kg
 Power Drift-Finish: 0.052 W/kg
 Power Drift (%) : 1.960
 Picture : (No picture)



1 gram SAR value : 0.081 W/kg
 10 gram SAR value : 0.063 W/kg
 Area Scan Peak SAR : 0.105 W/kg
 Zoom Scan Peak SAR : 0.194 W/kg

11.3.7 Z Axis 5260 MHz, EUT Position: Laptop, Main Antenna

