

Appendix D

SAR measurement Data

of

Product Name & Model

AR5BXB6 802.11 a/b/g PCI Express Module

1 802.11b SAR measurement Data

SAR Test Report

Report Date : 13-Mar-2007
Measurement Date : 13-Mar-2007

Product Data

Device Name : Dali 2
Type : Other
Frequency : 2450.00 MHz
Max. Transmit Pwr : 0.032 W
Drift Time : 0 min(s)
Length : 275 mm
Width : 30 mm
Depth : 5 mm
Antenna Type : Internal

Phantom Data

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

Tissue Data

Type : BODY
Serial No. : 2450_Body
Frequency : 2450.00 MHz
Last Calib. Date : 13-Mar-2007
Temperature : 21.80 °C
Ambient Temp. : 21.90 °C
Humidity : 44.00 RH%
Epsilon : 52.87 F/m
Sigma : 1.99 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: 5.02
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

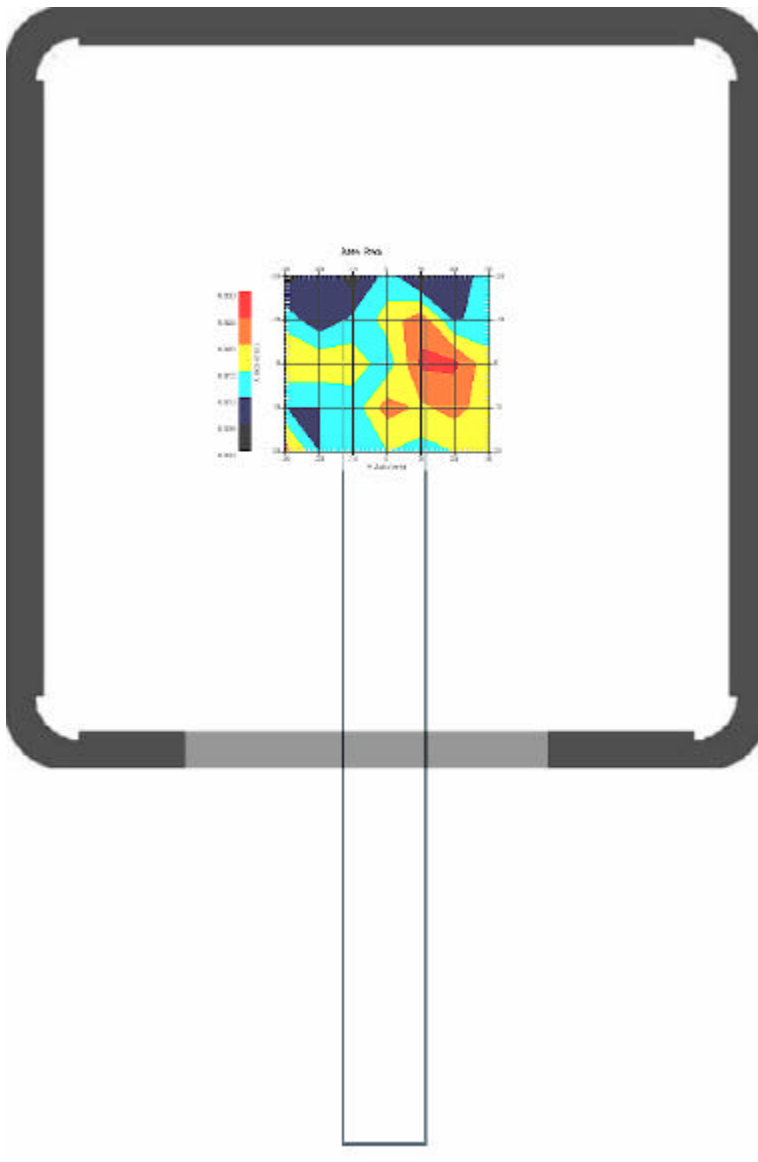
1.1 2450MHz, EUT Position: PL

Measurement Data

Crest Factor : 1
Area Scan : 5x7x1 : Measurement x=10mm, y=10mm, z=4mm
Zoom Scan : 7x7x7 : Measurement x=5mm, y=5mm, z=5mm

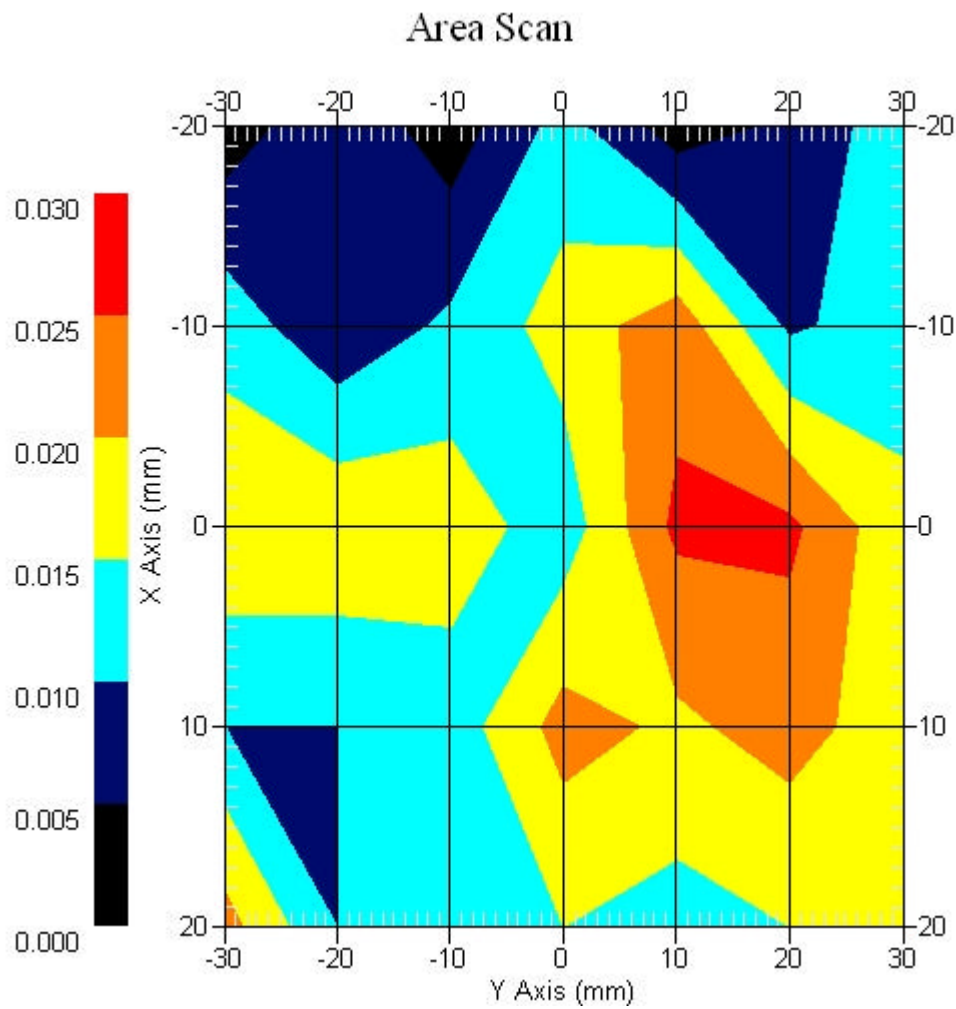
DUT Position : Touch
Channel : Mid

Power Drift-Start : 0.028 W/kg
Power Drift-Finish: 0.028 W/kg
Power Drift (%) : 0.011



1 gram SAR value : 0.021 W/kg
10 gram SAR value : 0.014 W/kg
Area Scan Peak SAR : 0.026 W/kg
Zoom Scan Peak SAR : 0.050 W/kg

Area Scan Plot



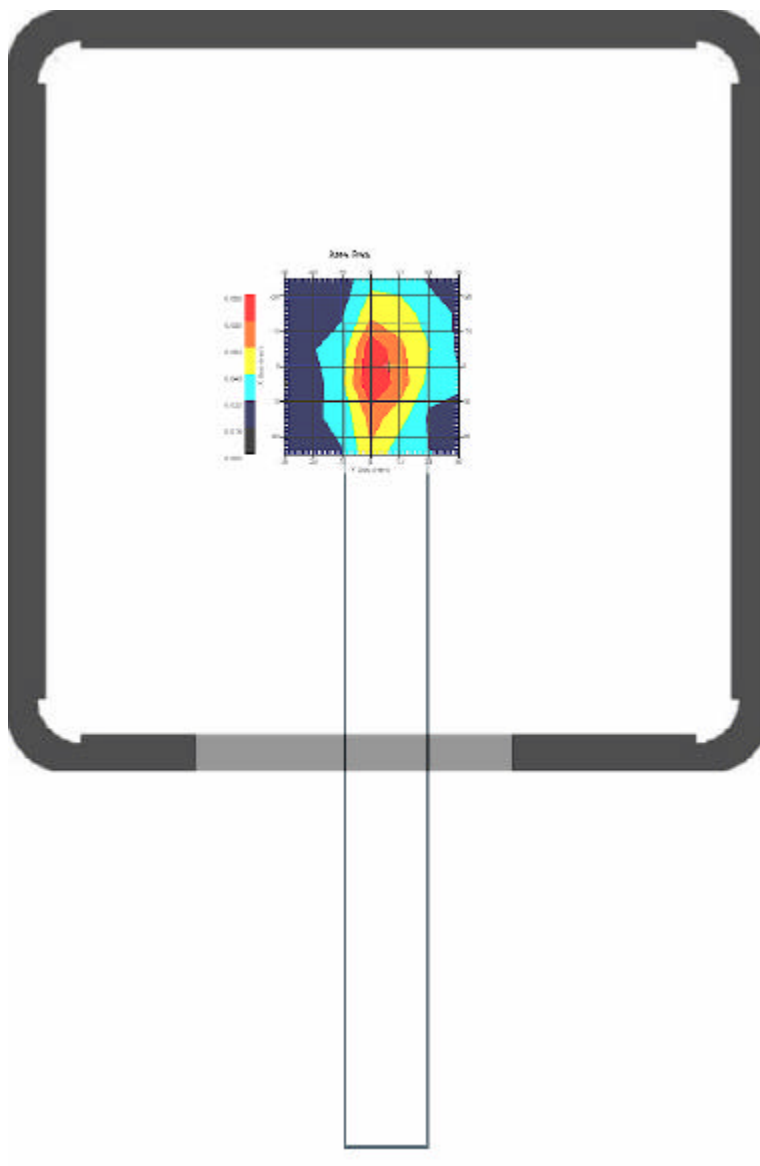
1.2 2450MHz, EUT Position: SL

Measurement Data

Crest Factor : 1
Area Scan : 6x7x1 : Measurement x=10mm, y=10mm, z=4mm
Zoom Scan : 7x7x7 : Measurement x=5mm, y=5mm, z=5mm

DUT Position : Touch
Channel : Mid

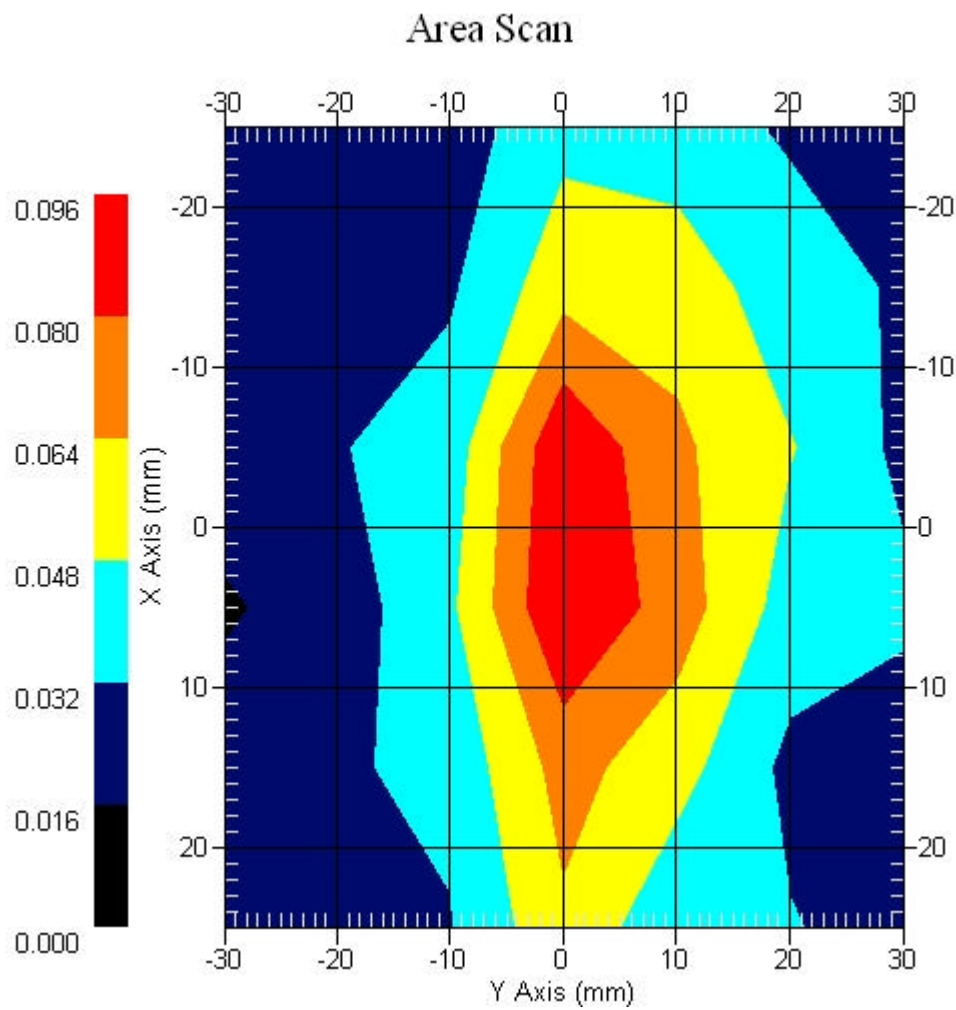
Power Drift-Start : 0.103 W/kg
Power Drift-Finish: 0.104 W/kg
Power Drift (%) : 1.638



1 gram SAR value : 0.080 W/kg
10 gram SAR value : 0.045 W/kg
Area Scan Peak SAR : 0.096 W/kg
Zoom Scan Peak SAR : 0.110 W/kg

Appendix D of Report Number: ISL-07LR013SAR-F
International Standards Laboratory

Area Scan Plot



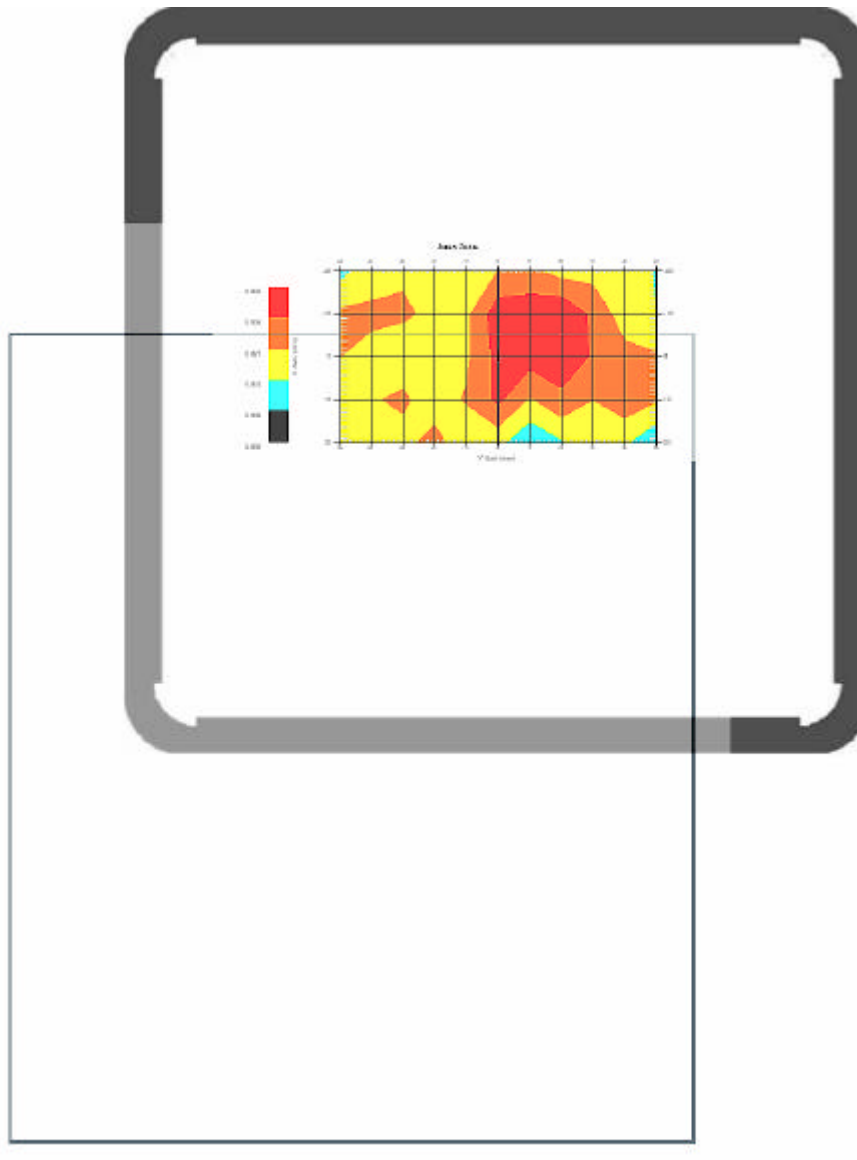
1.3 2450MHz, EUT Position: Laptop

Measurement Data

Crest Factor : 1
Area Scan : 5x11x1 : Measurement x=10mm, y=10mm, z=4mm
Zoom Scan : 7x7x7 : Measurement x=5mm, y=5mm, z=5mm

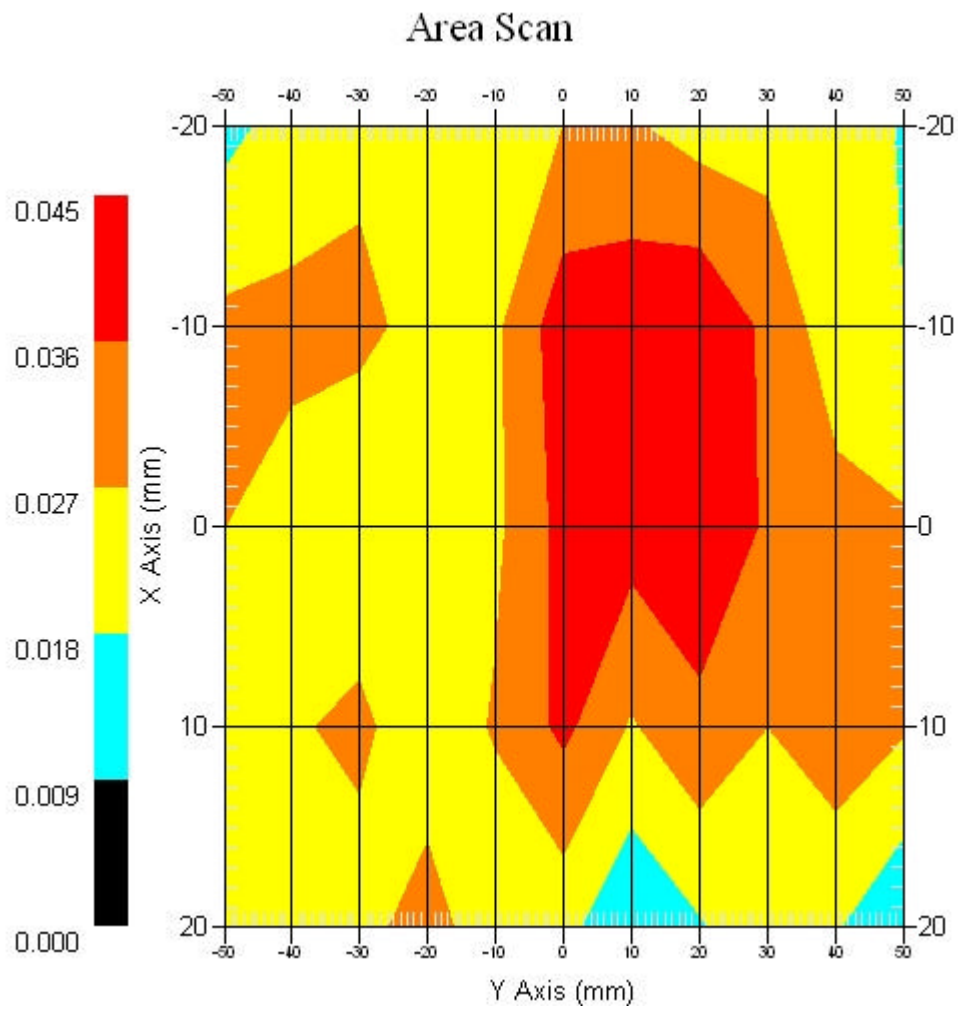
DUT Position : Touch
Channel : Mid

Power Drift-Start : 0.033 W/kg
Power Drift-Finish: 0.034 W/kg
Power Drift (%) : 3.028



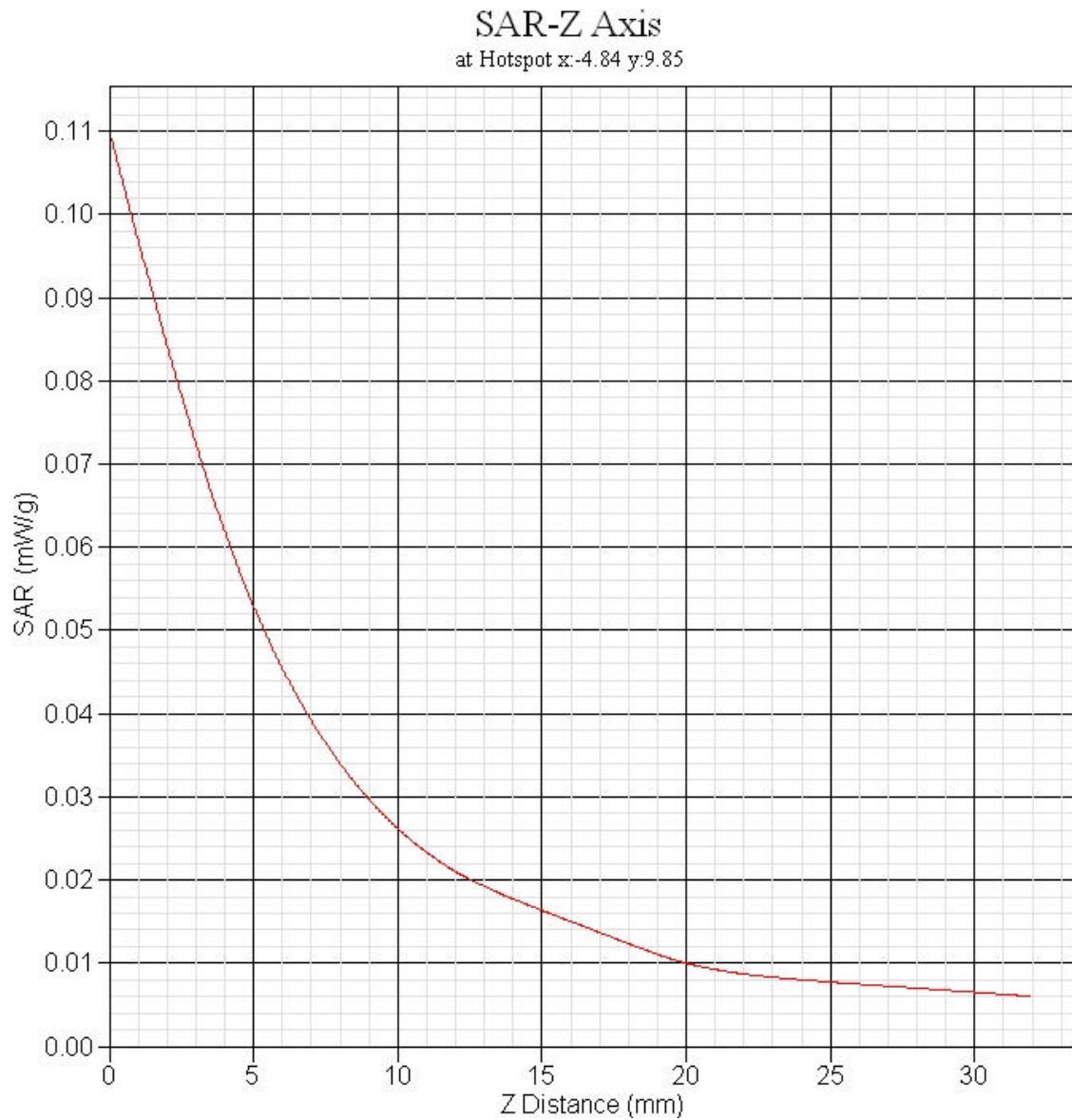
1 gram SAR value : 0.042 W/kg
10 gram SAR value : 0.031 W/kg
Area Scan Peak SAR : 0.044 W/kg
Zoom Scan Peak SAR : 0.070 W/kg

Area Scan Plot



1.4 2450MHz Z-Axis plot

Frequency: 802.11b, EUT SL mode



2 802.11g SAR measurement Data

SAR Test Report

Report Date : 13-Mar-2007
Measurement Date : 13-Mar-2007

Product Data

Device Name : Dali 2
Type : Other
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Max. Transmit Pwr : 0.032 W
Drift Time : 0 min(s)
Length : 275 mm
Width : 30 mm
Depth : 5 mm
Antenna Type : Internal

Phantom Data

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

Tissue Data

Type : BODY
Serial No. : 2450_Body
Frequency : 2450.00 MHz
Last Calib. Date : 13-Mar-2007
Temperature : 21.80 °C
Ambient Temp. : 21.90 °C
Humidity : 44.00 RH%
Epsilon : 52.87 F/m
Sigma : 1.99 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: 5.02
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

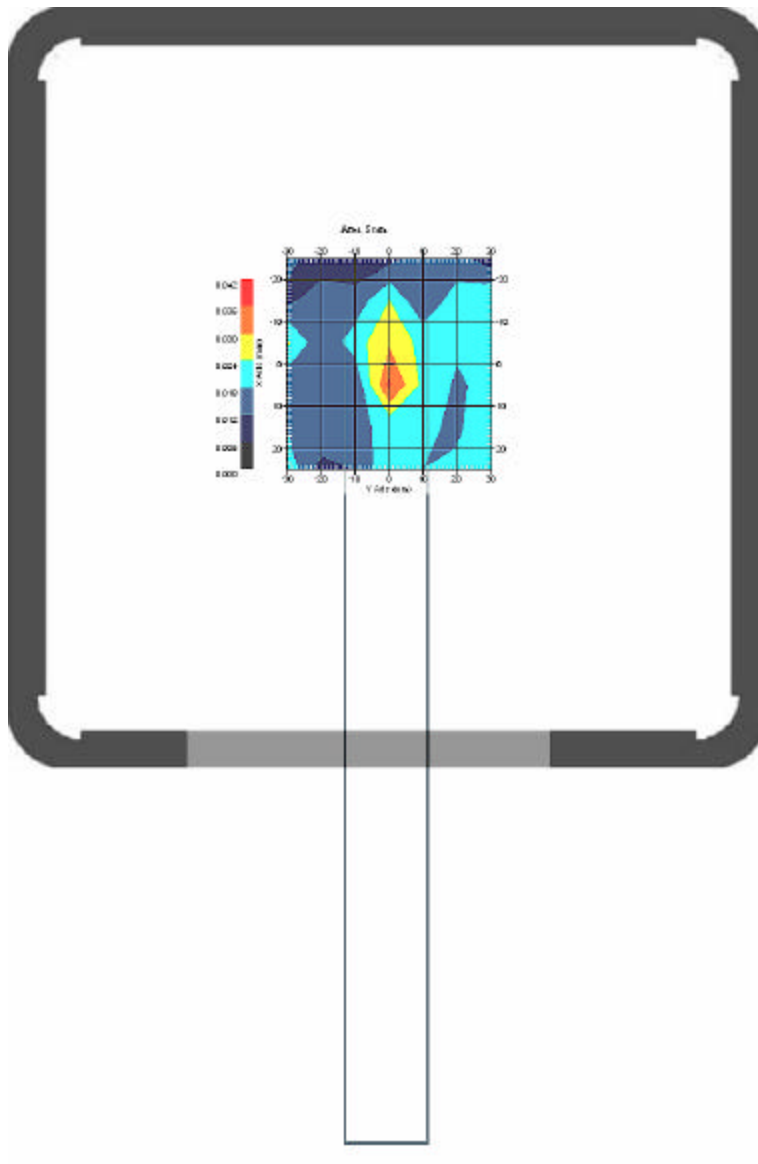
2.1 2450MHz, EUT Position: PL

Measurement Data

Crest Factor : 1
Area Scan : 6x7x1 : Measurement x=10mm, y=10mm, z=4mm
Zoom Scan : 7x7x7 : Measurement x=5mm, y=5mm, z=5mm

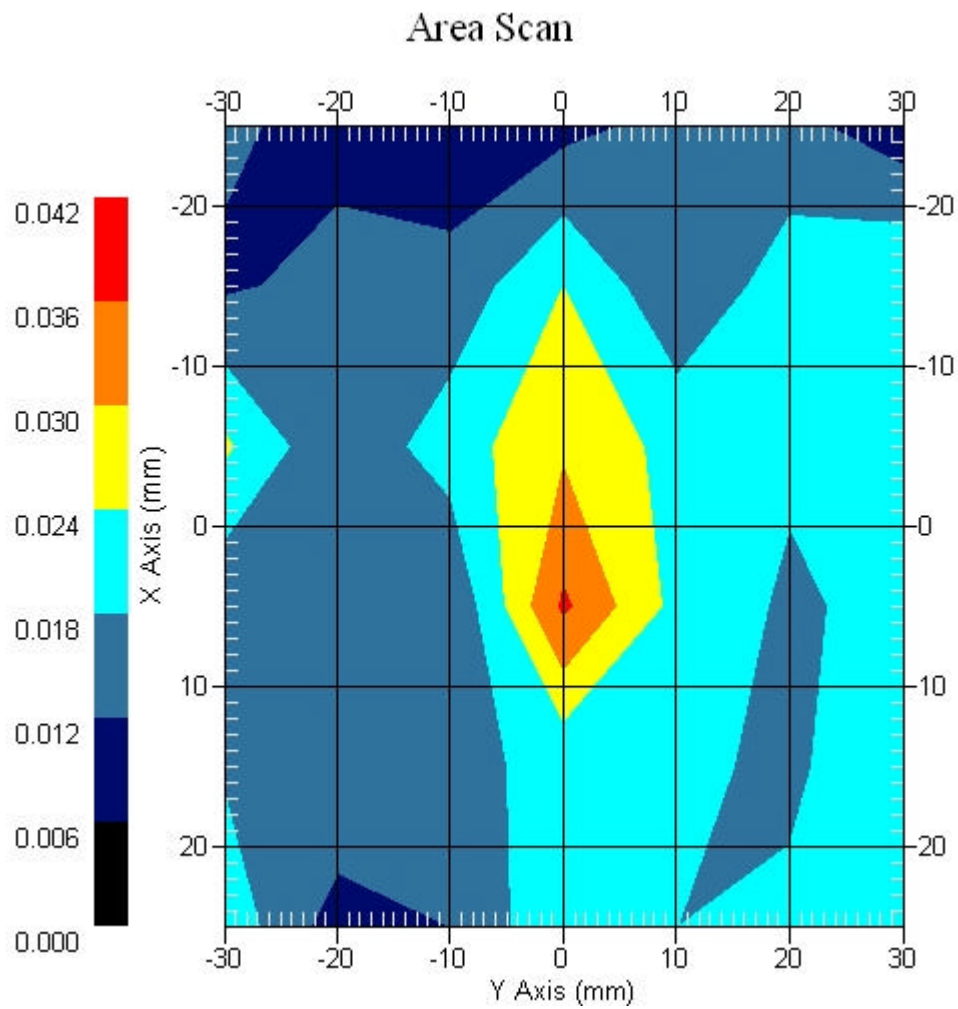
DUT Position : Touch
Channel : Mid

Power Drift-Start : 0.021 W/kg
Power Drift-Finish: 0.021 W/kg
Power Drift (%) : -0.021



1 gram SAR value : 0.037 W/kg
10 gram SAR value : 0.041 W/kg
Area Scan Peak SAR : 0.037 W/kg
Zoom Scan Peak SAR : 0.060 W/kg

Area Scan Plot



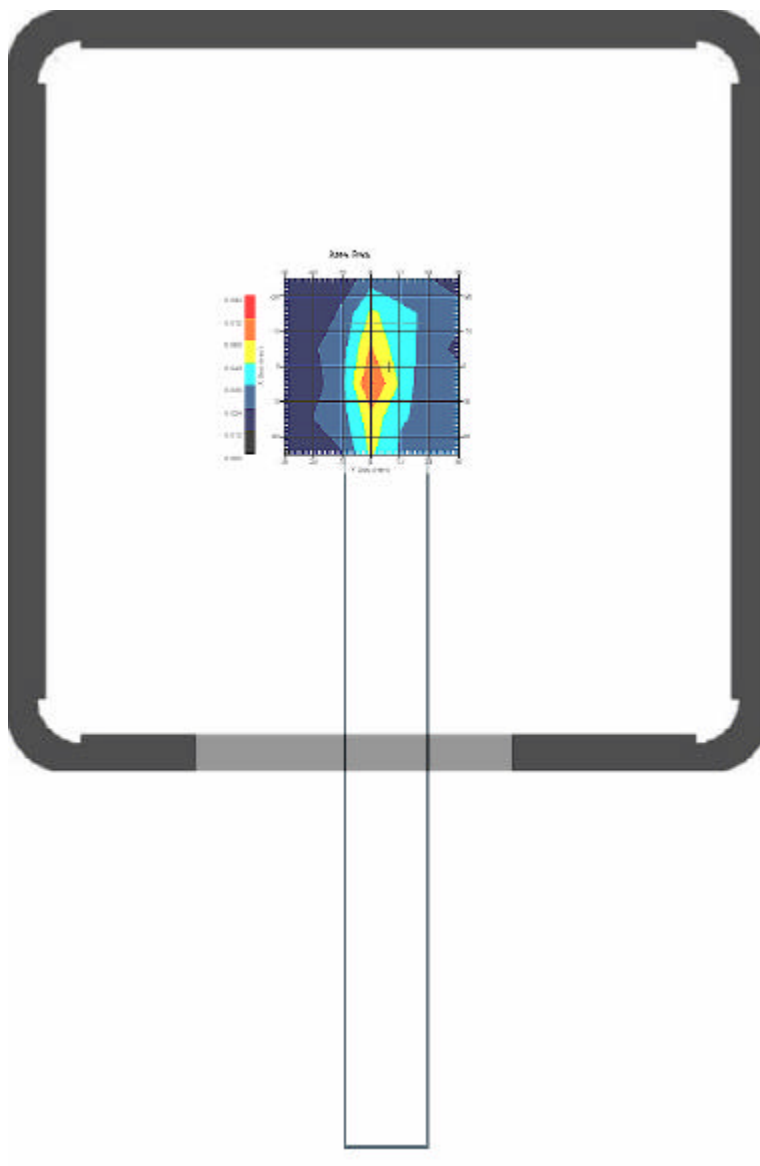
2.2 2450MHz, EUT Position: SL

Measurement Data

Crest Factor : 1
Area Scan : 6x7x1 : Measurement x=10mm, y=10mm, z=4mm
Zoom Scan : 7x7x7 : Measurement x=5mm, y=5mm, z=5mm

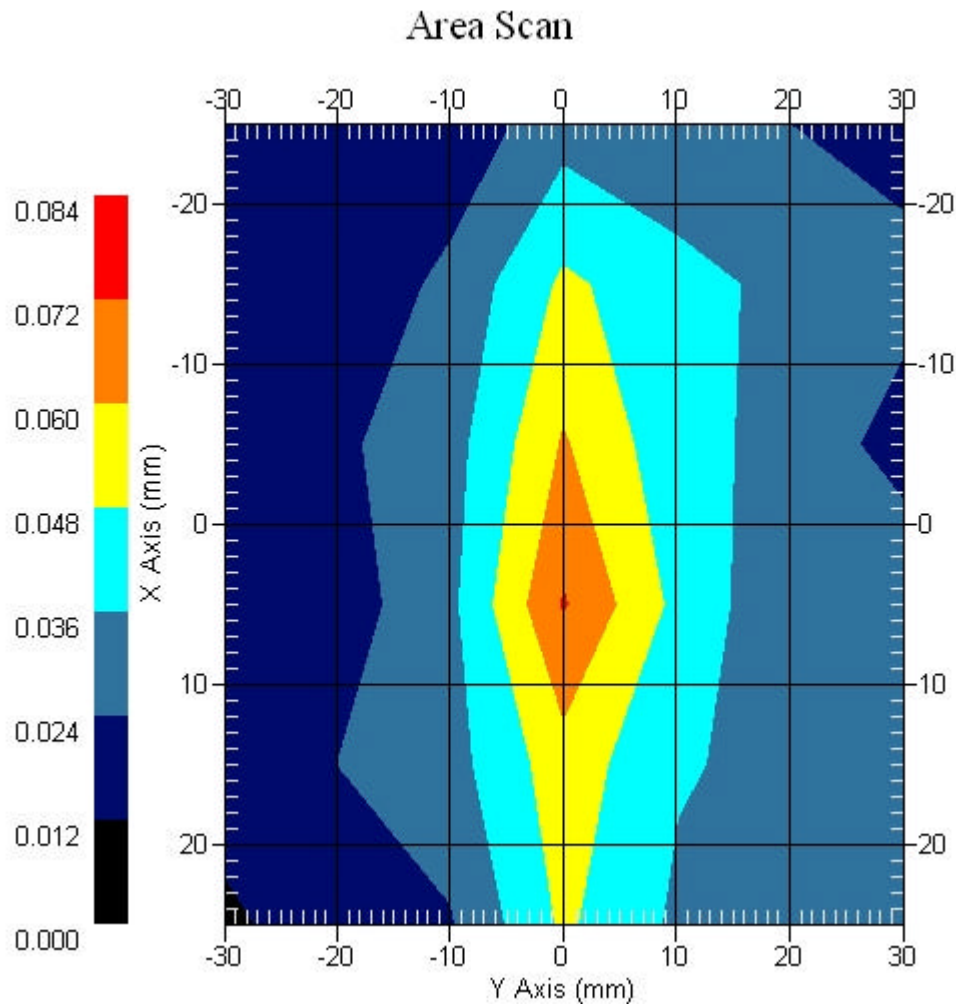
DUT Position : Touch
Channel : Mid

Power Drift-Start : 0.076 W/kg
Power Drift-Finish: 0.076 W/kg
Power Drift (%) : 0.014



1 gram SAR value : 0.039 W/kg
10 gram SAR value : 0.030 W/kg
Area Scan Peak SAR : 0.073 W/kg
Zoom Scan Peak SAR : 0.080 W/kg

Area Scan Plot



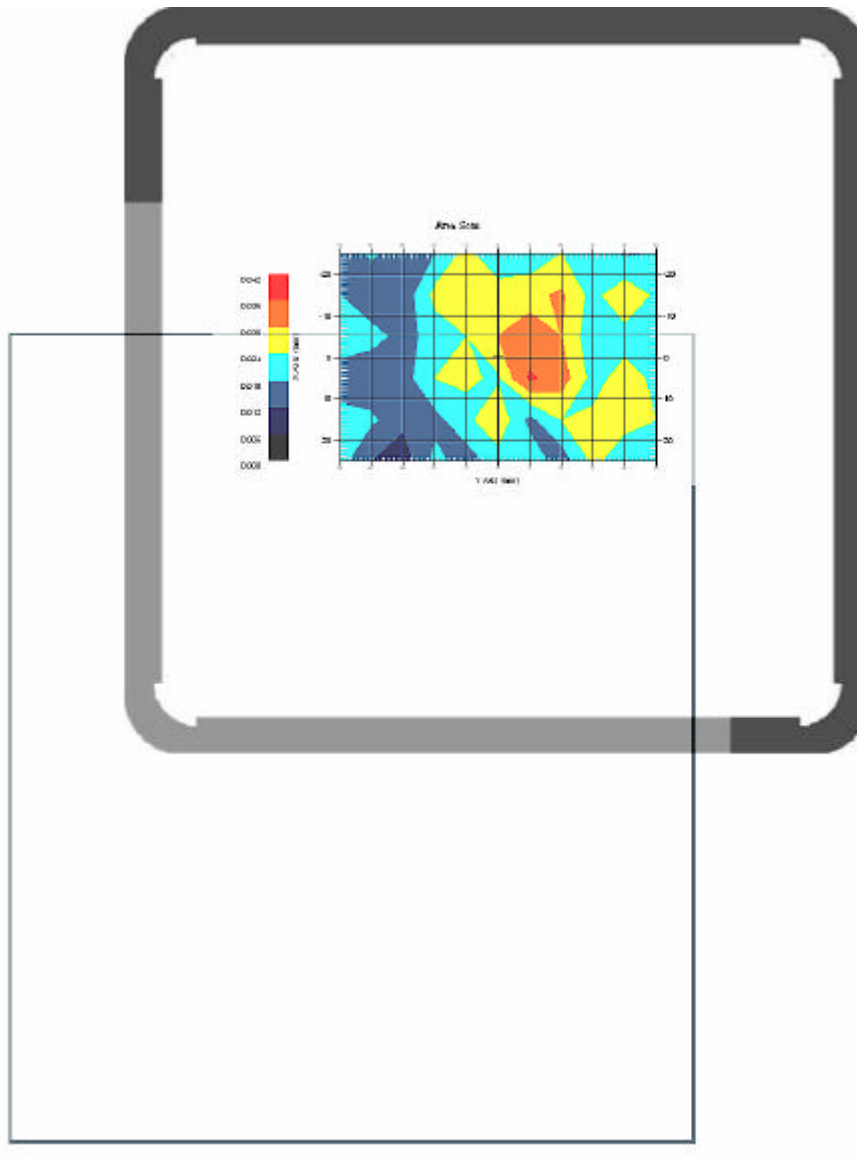
2.3 2450MHz, EUT Position: Laptop

Measurement Data

Crest Factor : 1
Area Scan : 6x11x1 : Measurement x=10mm, y=10mm, z=4mm
Zoom Scan : 7x7x7 : Measurement x=5mm, y=5mm, z=5mm

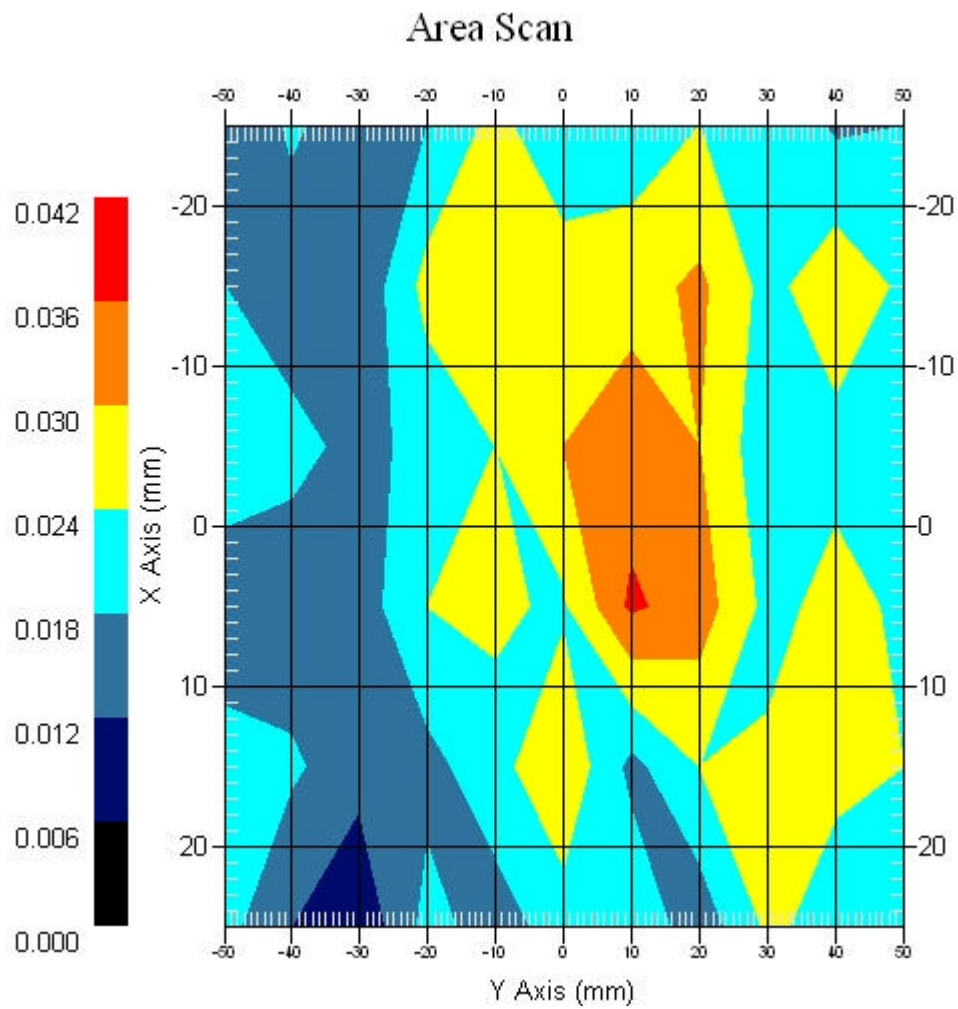
DUT Position : Touch
Channel : Mid

Power Drift-Start : 0.024 W/kg
Power Drift-Finish: 0.024 W/kg
Power Drift (%) : -0.493



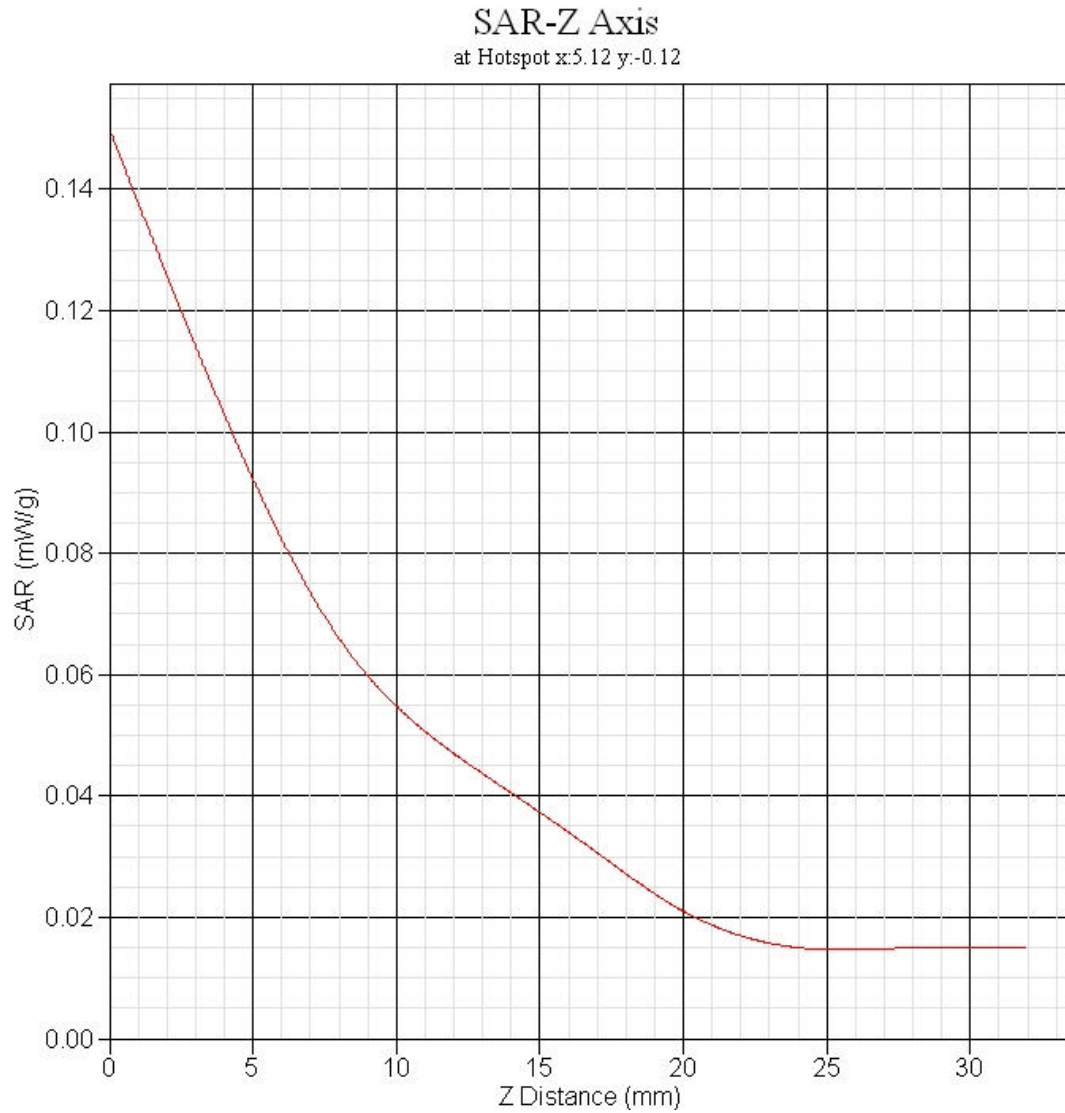
1 gram SAR value : 0.032 W/kg
10 gram SAR value : 0.033 W/kg
Area Scan Peak SAR : 0.037 W/kg
Zoom Scan Peak SAR : 0.052 W/kg

Area Scan Plot



2.4 2450 MHz Z-Axis plot

Frequency: 802.11g,, EUT SL mode



3 802.11a SAR measurement Data

SAR Test Report

Report Date : 09-Mar-2007
Measurement Date : 09-Mar-2007

Product Data

Device Name : Dali 2
Type : Other
Frequency : 5200.00 MHz
Max. Transmit Pwr : 0.032 W
Drift Time : 0 min(s)
Length : 275 mm
Width : 30 mm
Depth : 5 mm
Antenna Type : Internal

Phantom Data

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

Tissue Data

Type : BODY
Serial No. : 5200-B-AU-18
Frequency : 5200.00 MHz
Last Calib. Date : 09-Mar-2007
Temperature : 22.00 °C
Ambient Temp. : 22.20 °C
Humidity : 46.00 RH%
Epsilon : 47.38 F/m
Sigma : 5.26 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 : 5200.00 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 : 1.56 mm

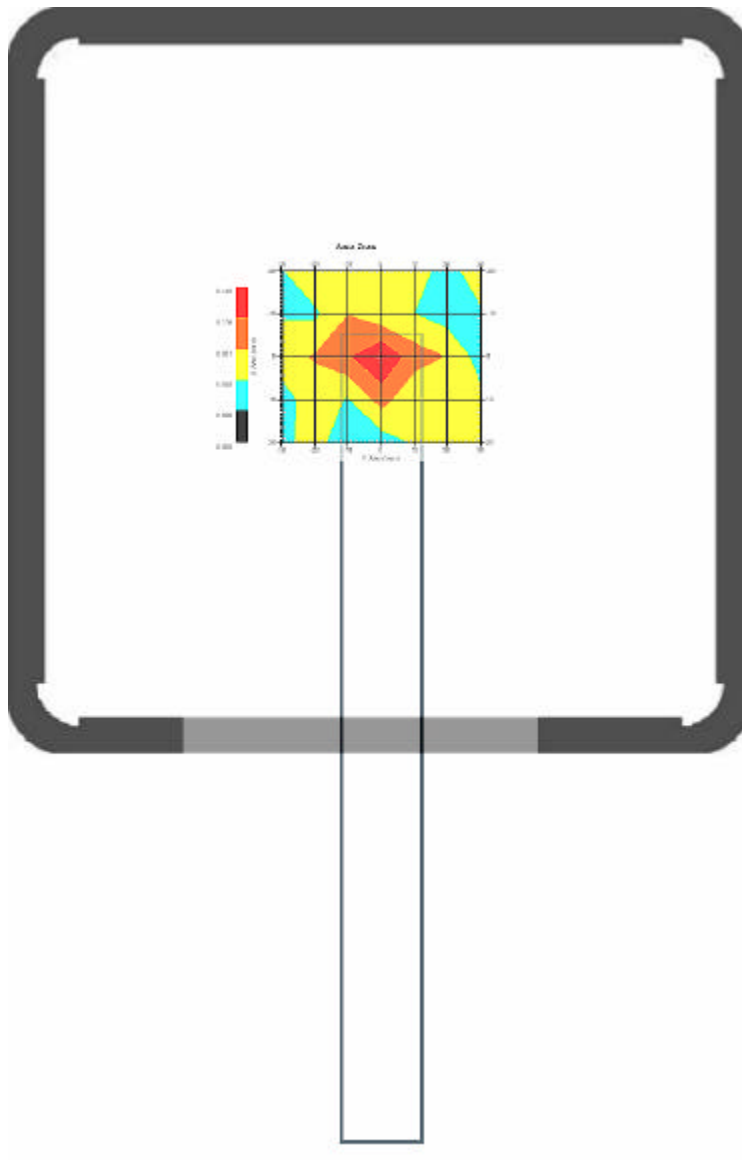
3.1 5200MHz, EUT Position: PL

Measurement Data

Crest Factor : 1
Area Scan : 5x7x1 : Measurement x=10mm, y=10mm, z=4mm
Zoom Scan : 9x9x13 : Measurement x=4mm, y=4mm, z=2.5mm

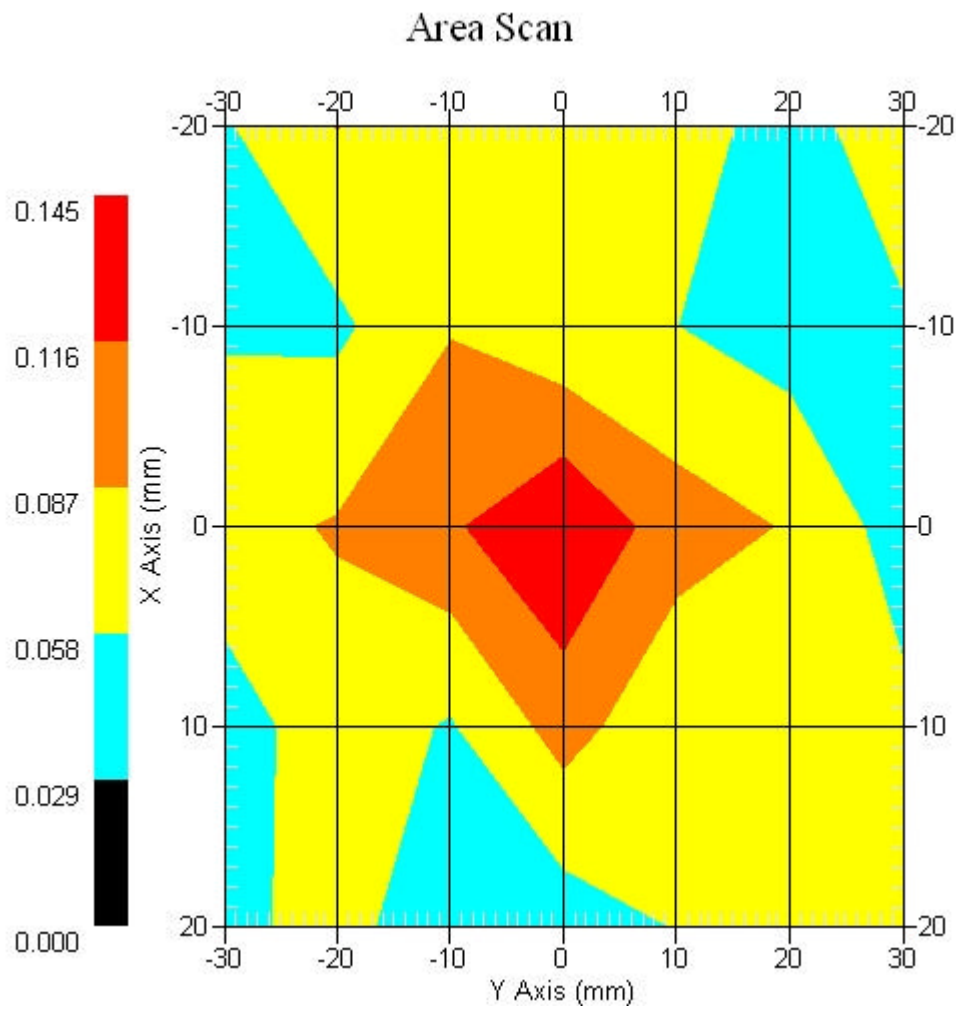
DUT Position : Touch
Channel : Mid

Power Drift-Start : 0.050 W/kg
Power Drift-Finish: 0.051 W/kg
Power Drift (%) : 0.712



1 gram SAR value : 0.148 W/kg
10 gram SAR value : 0.101 W/kg
Area Scan Peak SAR : 0.142 W/kg
Zoom Scan Peak SAR : 0.269 W/kg

Area Scan Plot



3.2 5200MHz, EUT Position:SL

Measurement Data

Crest Factor : 1

Area Scan : 5x7x1 : Measurement x=10mm, y=10mm, z=4mm

Zoom Scan : 9x9x13 : Measurement x=4mm, y=4mm, z=2.5mm

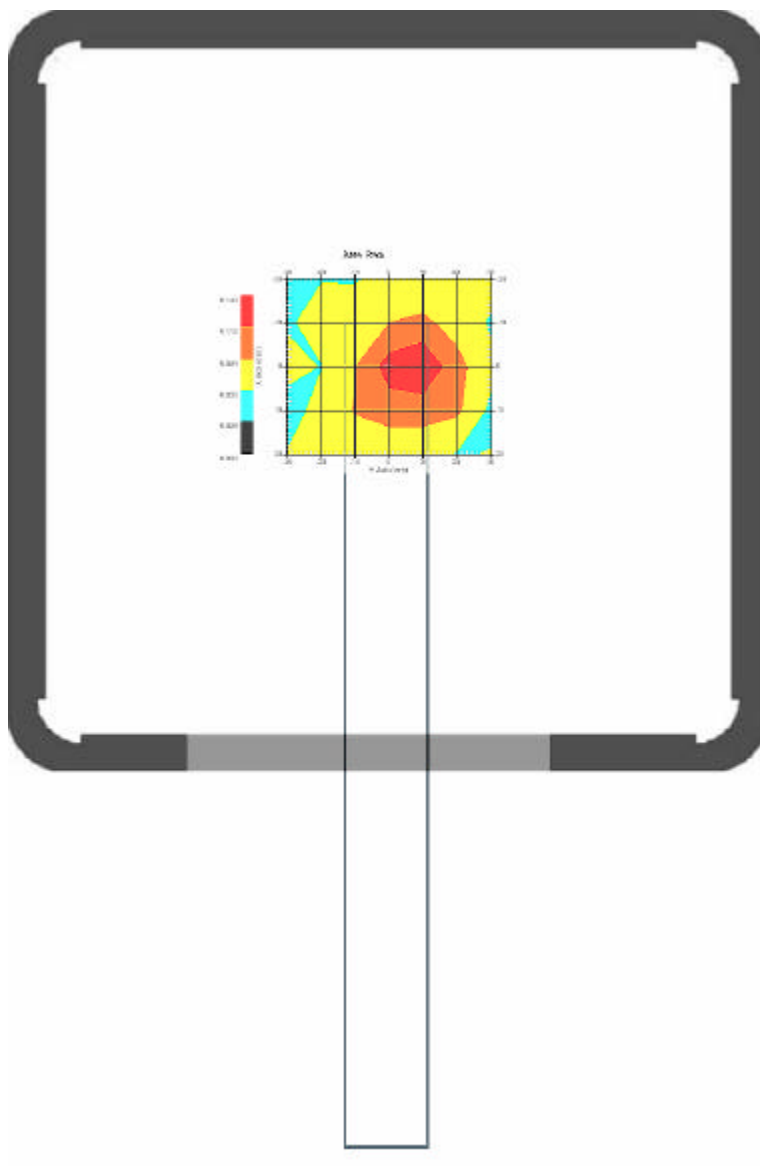
DUT Position : Touch

Channel : Mid

Power Drift-Start : 0.075 W/kg

Power Drift-Finish: 0.076 W/kg

Power Drift (%) : 1.388



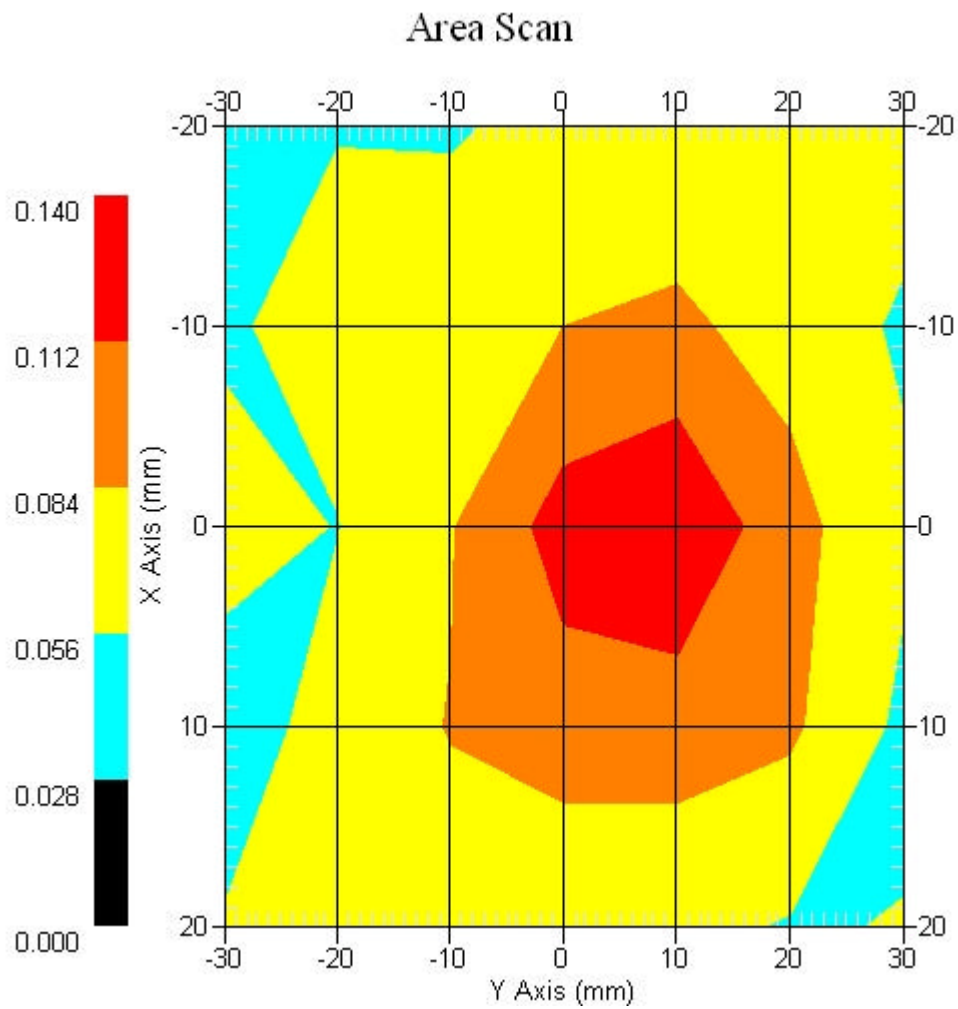
1 gram SAR value : 0.123 W/kg

10 gram SAR value : 0.081 W/kg

Area Scan Peak SAR : 0.139 W/kg

Zoom Scan Peak SAR : 0.233 W/kg

Area Scan Plot



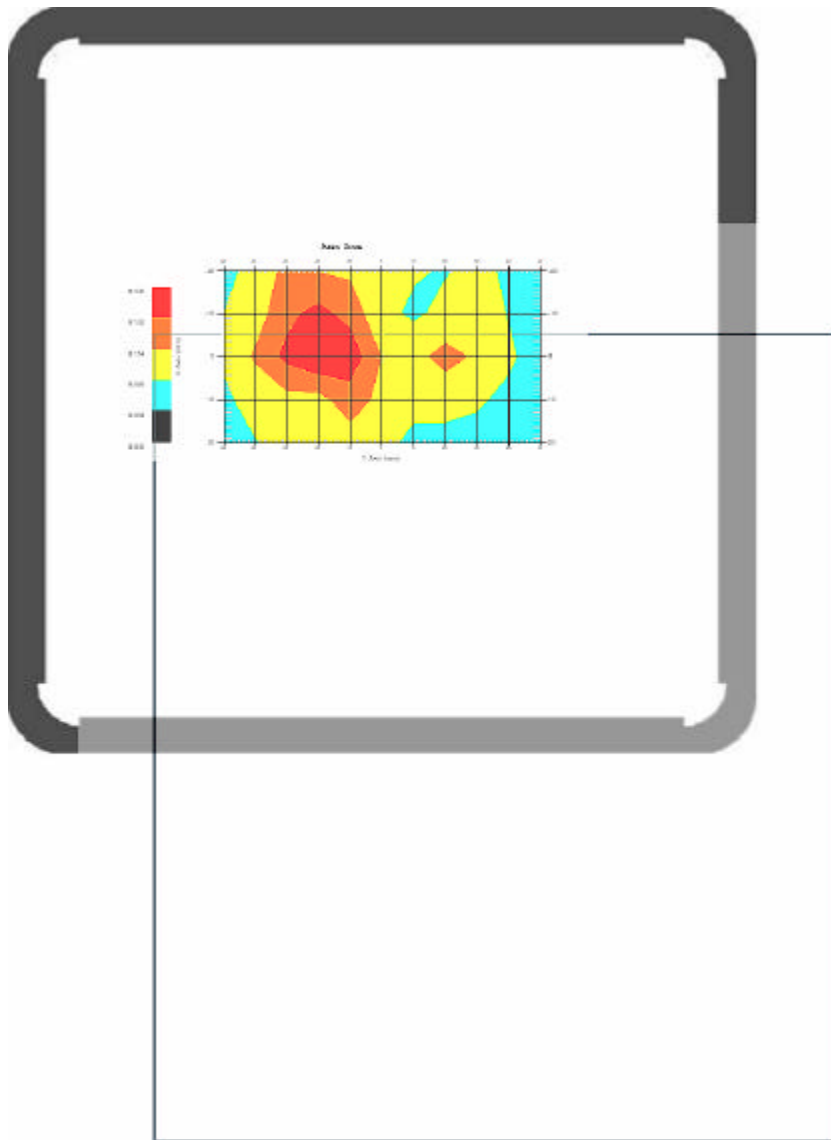
3.3 5200MHz, EUT Position:Laptop

Measurement Data

Crest Factor : 1
Area Scan : 5x11x1 : Measurement x=10mm, y=10mm, z=4mm
Zoom Scan : 9x9x13 : Measurement x=4mm, y=4mm, z=2.5mm

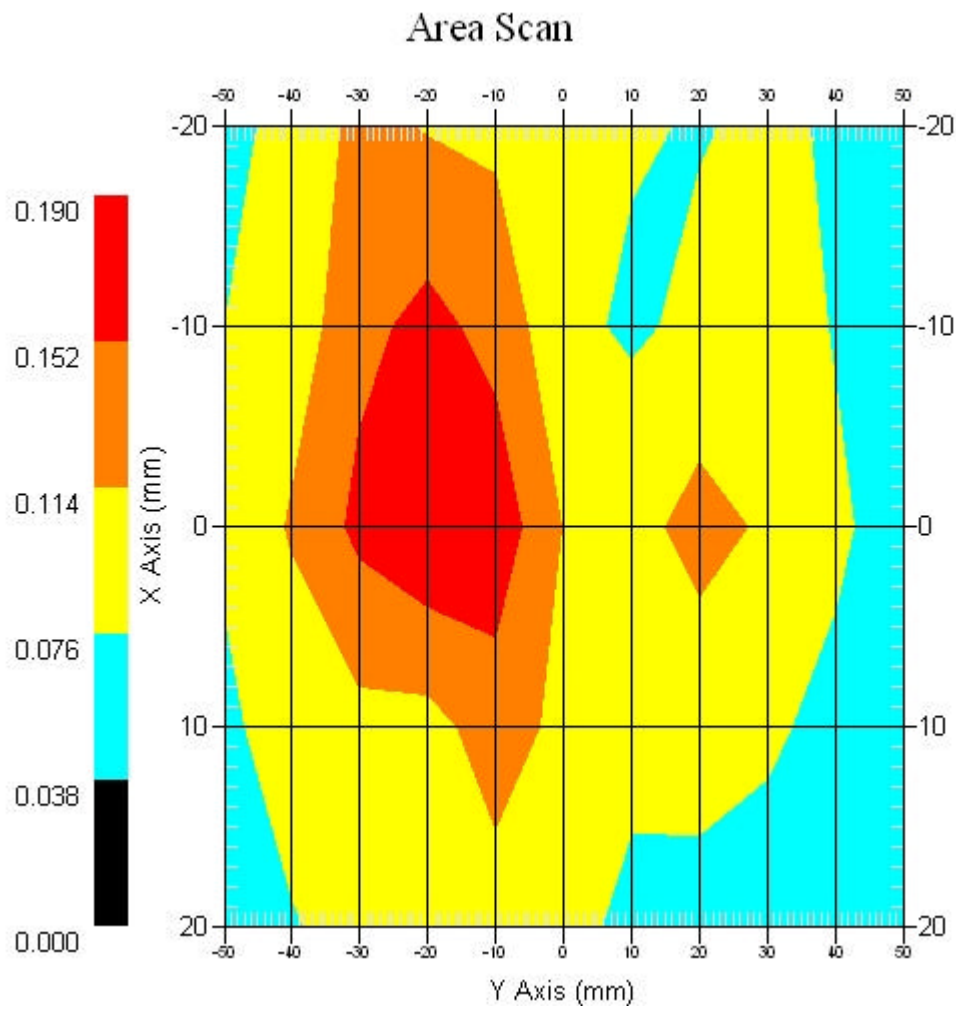
DUT Position : Touch
Channel : Mid

Power Drift-Start : 0.054 W/kg
Power Drift-Finish: 0.056 W/kg
Power Drift (%) : 3.715



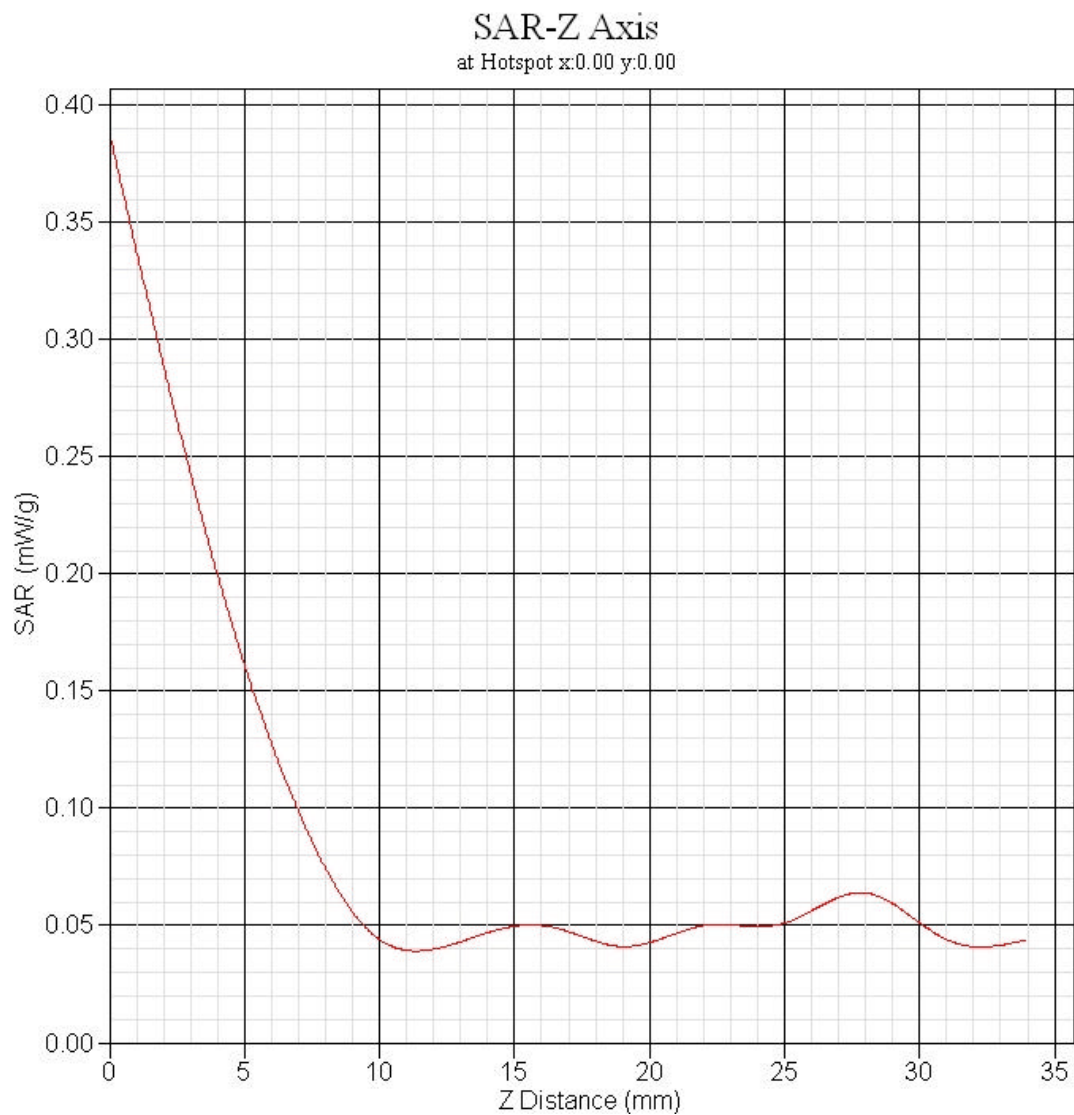
1 gram SAR value : 0.162 W/kg
10 gram SAR value : 0.091 W/kg
Area Scan Peak SAR : 0.188 W/kg
Zoom Scan Peak SAR : 0.383 W/kg

Area Scan Plot



3.4 5200MHz Z-Axis plot

Frequency: 802.11a, EUT Laptop mode



4 802.11a SAR measurement Data

SAR Test Report

Report Date : 09-Mar-2007
Measurement Date : 09-Mar-2007

Product Data

Device Name : Dali 2
Type : Other
Frequency : 5800.00 MHz
Max. Transmit Pwr : 0.032 W
Drift Time : 0 min(s)
Length : 275 mm
Width : 30 mm
Depth : 5 mm
Antenna Type : Internal

Phantom Data

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

Tissue Data

Type : BODY
Serial No. : 5800-B-AU-19
Frequency : 5800.00 MHz
Last Calib. Date : 09-Mar-2007
Temperature : 22.00 °C
Ambient Temp. : 22.20 °C
Humidity : 46.00 RH%
Epsilon : 48.90 F/m
Sigma : 6.02 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 : 5800.00 MHz
Duty Cycle Factor: 1
Conversion Factor: 4.2
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

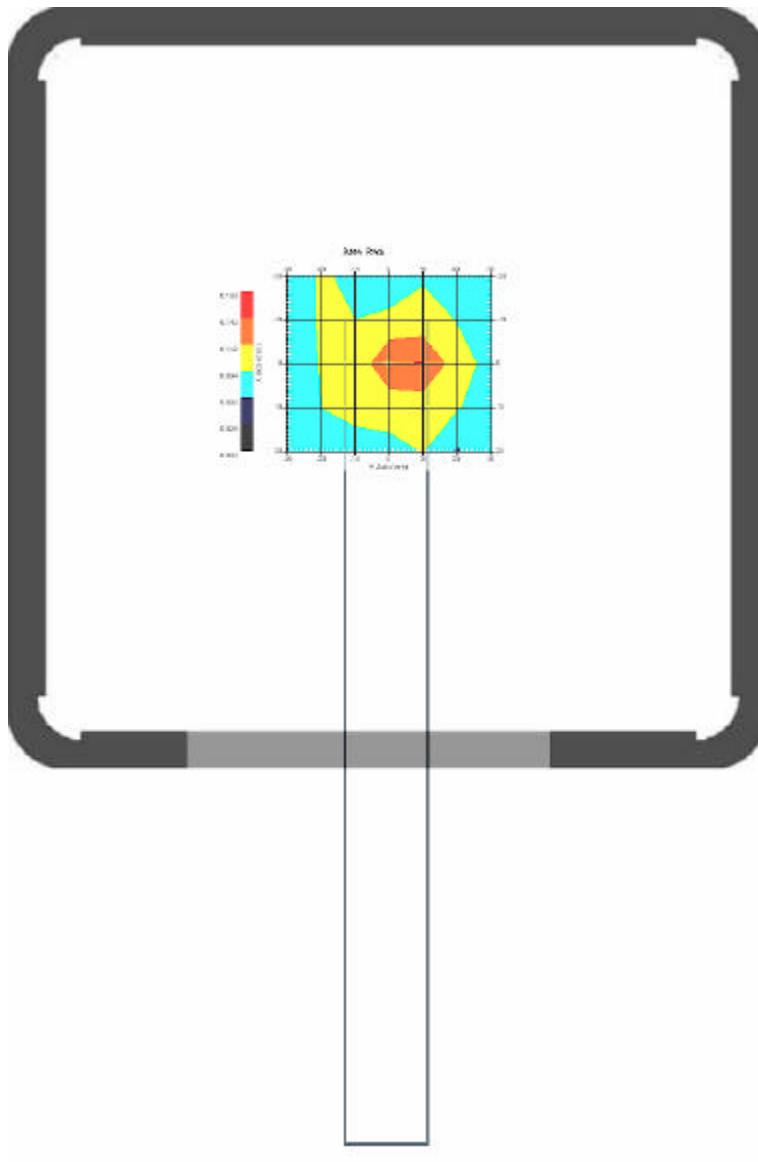
4.1 5800MHz, EUT Position: PL

Measurement Data

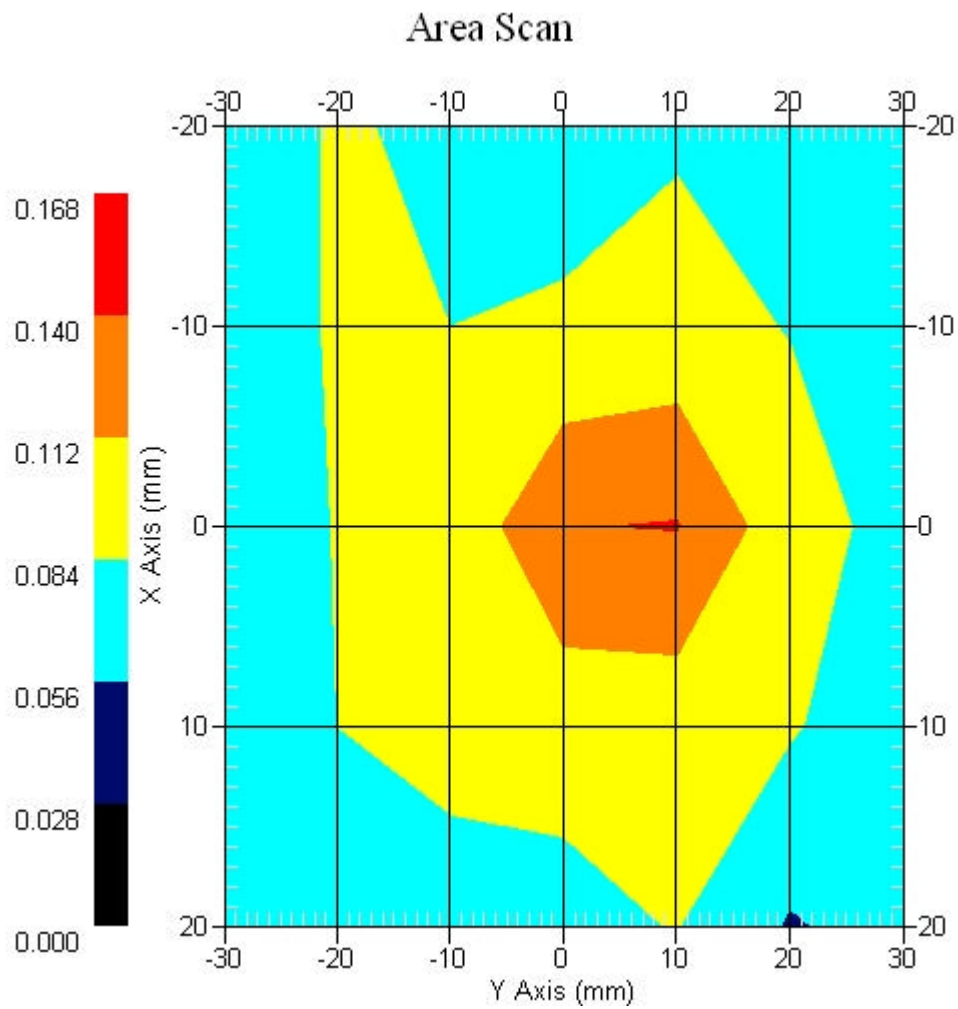
Crest Factor : 1
Area Scan : 5x7x1 : Measurement x=10mm, y=10mm, z=4mm
Zoom Scan : 9x9x13 : Measurement x=4mm, y=4mm, z=2.5mm

DUT Position : Touch
Channel : Mid

Power Drift-Start : 0.069 W/kg
Power Drift-Finish: 0.070 W/kg
Power Drift (%) : 1.431



Area Scan Plot



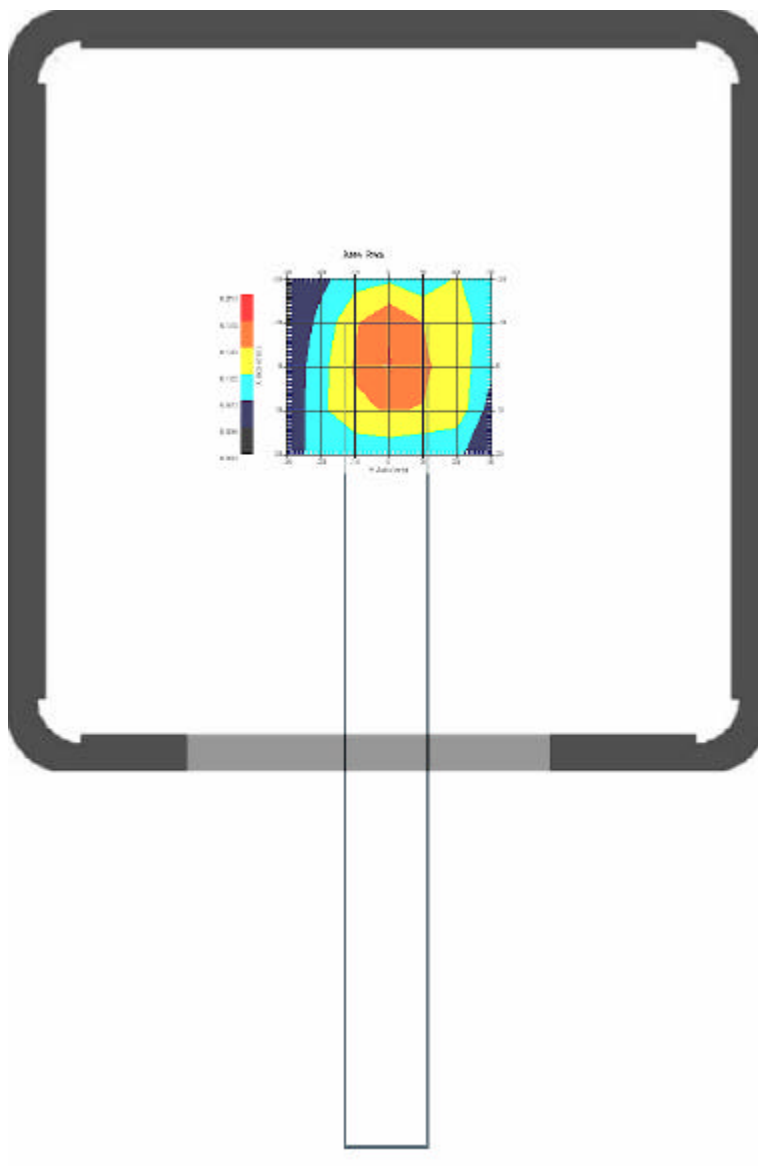
4.2 5800MHz, EUT Position:SL

Measurement Data

Crest Factor : 1
Area Scan : 5x7x1 : Measurement x=10mm, y=10mm, z=4mm
Zoom Scan : 9x9x13 : Measurement x=4mm, y=4mm, z=2.5mm

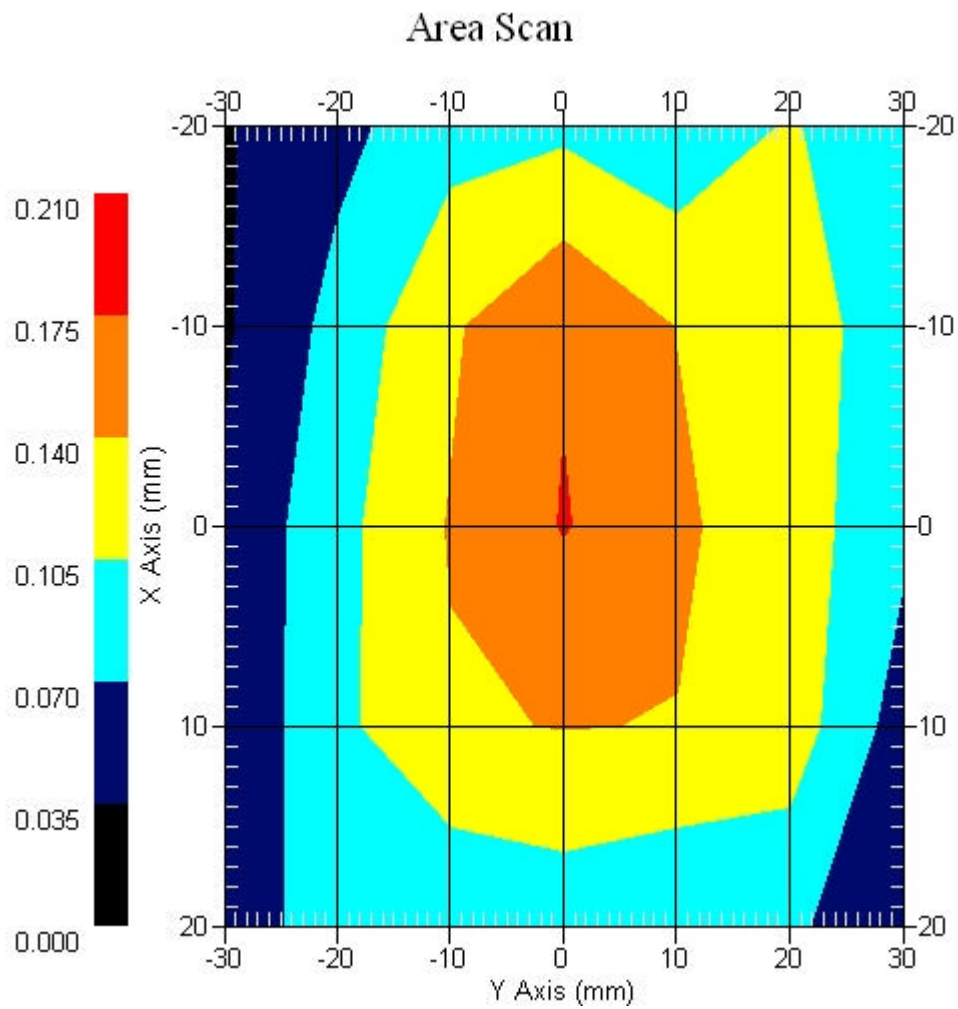
DUT Position : Touch
Channel : Mid

Power Drift-Start : 0.081 W/kg
Power Drift-Finish: 0.080 W/kg
Power Drift (%) : -1.224



1 gram SAR value : 0.154 W/kg
10 gram SAR value : 0.089 W/kg
Area Scan Peak SAR : 0.177 W/kg
Zoom Scan Peak SAR : 0.302 W/kg

Area Scan Plot



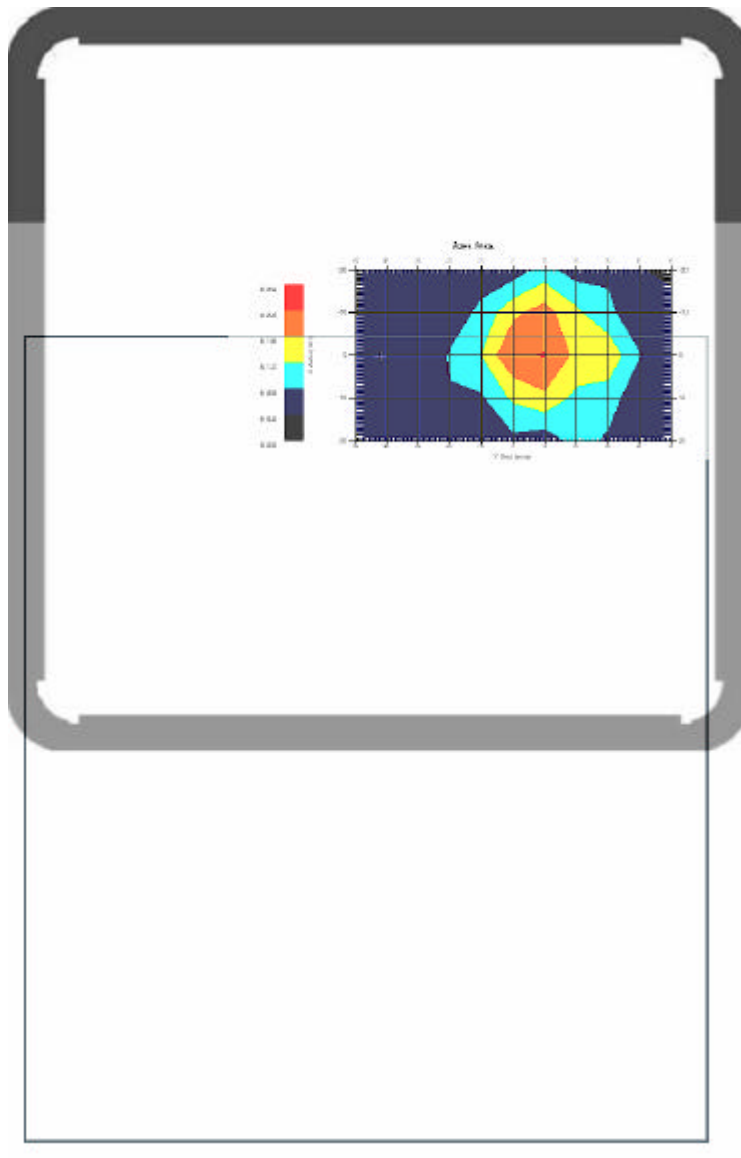
4.3 5800MHz, EUT Position:Laptop

Measurement Data

Crest Factor : 1
Area Scan : 5x11x1 : Measurement x=10mm, y=10mm, z=4mm
Zoom Scan : 9x9x13 : Measurement x=4mm, y=4mm, z=2.5mm

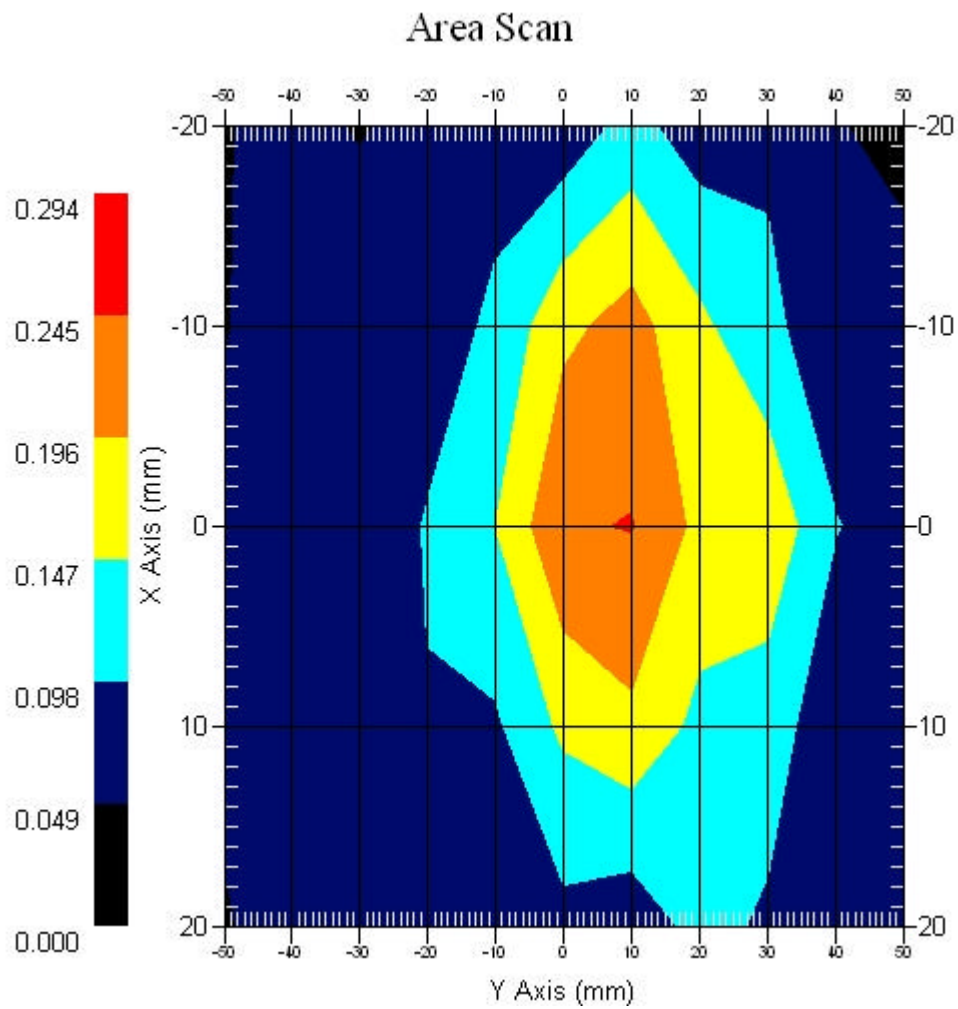
DUT Position : Touch
Channel : 5785MHz

Power Drift-Start : 0.083 W/kg
Power Drift-Finish: 0.081 W/kg
Power Drift (%) : -2.403



1 gram SAR value : 0.201 W/kg
10 gram SAR value : 0.131 W/kg
Area Scan Peak SAR : 0.247 W/kg
Zoom Scan Peak SAR : 0.423 W/kg

Area Scan Plot



4.4 5800MHz Z-Axis plot

Frequency: 802.11a, , EUT Laptop mode

