

ALSAS-10U VER 2.3.2 APREL Laboratories

SAR Test Report

Report Date : 01-Feb-2008
Measurement Date : 01-Feb-2008

Product Data

Device Name : MOBILE PHONE
Type : Std Form Cell Phone
Model : T208
Frequency : 850.00 MHz
Max. Transmit Pwr : 2 W
Drift Time : 0 min(s)
Length : 102 mm
Width : 45 mm
Depth : 14 mm
Antenna Type : Internal

Phantom Data

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

Tissue Data

Type : BODY
Serial No. : 322-B
Frequency : 835.00 MHz
Last Calib. Date : 01-Feb-2008
Temperature : 20.20 °C
Ambient Temp. : 21.30 °C
Humidity : 63.00 RH%
Epsilon : 54.63 F/m
Sigma : 0.969 S/m
Density : 1000.00 kg/cu. m

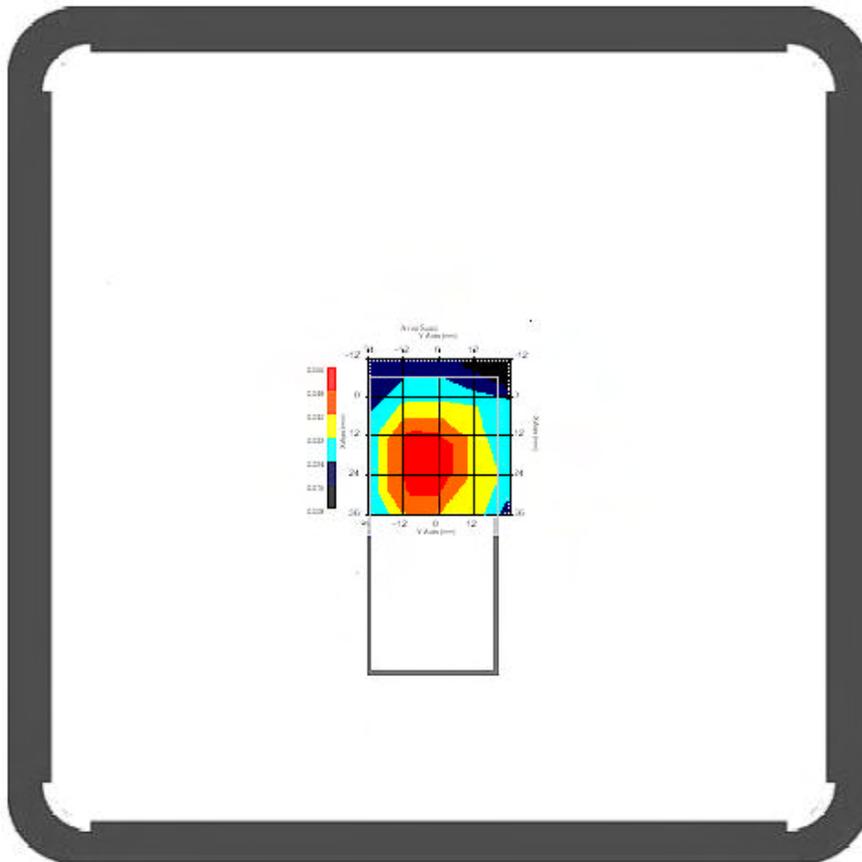
Probe Data

Name : Probe 264
Model : E020
Type : E-Field Triangle
Serial No. : 264
Last Calib. Date : 20-Aug-2007
Frequency : 835.00 MHz
Duty Cycle Factor: 8
Conversion Factor: 6.8
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

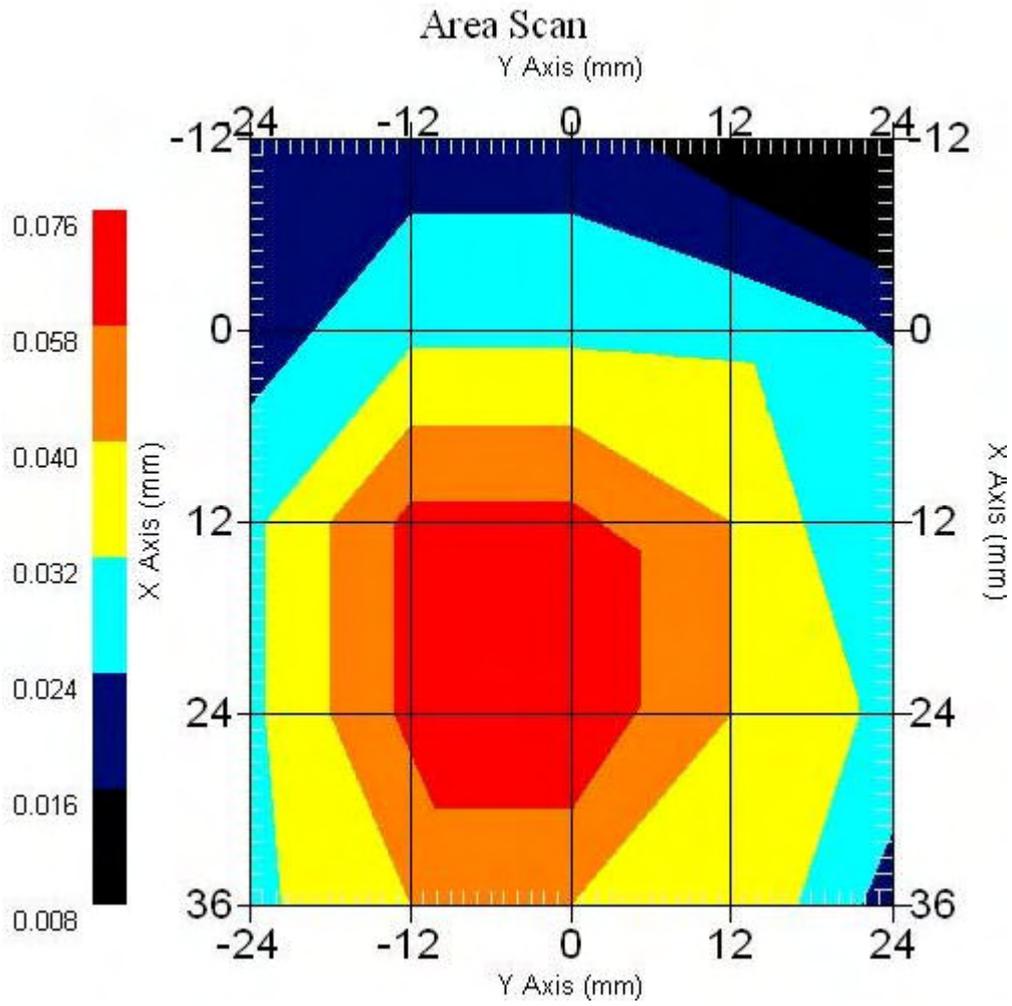
Measurement Data

Crest Factor : 8
Tissue Temp. : 20.20 °C
Ambient Temp. : 21.30 °C
Area Scan : 5x5x1 : Measurement x=12mm, y=12mm, z=4mm
Zoom Scan : 7x7x7 : Measurement x=5mm, y=5mm, z=5mm
Power Drift-Start : 0.036 W/kg
Power Drift-Finish: 0.037 W/kg
Power Drift (%) : 2.703

DUT Position : Touch
Channel : 128



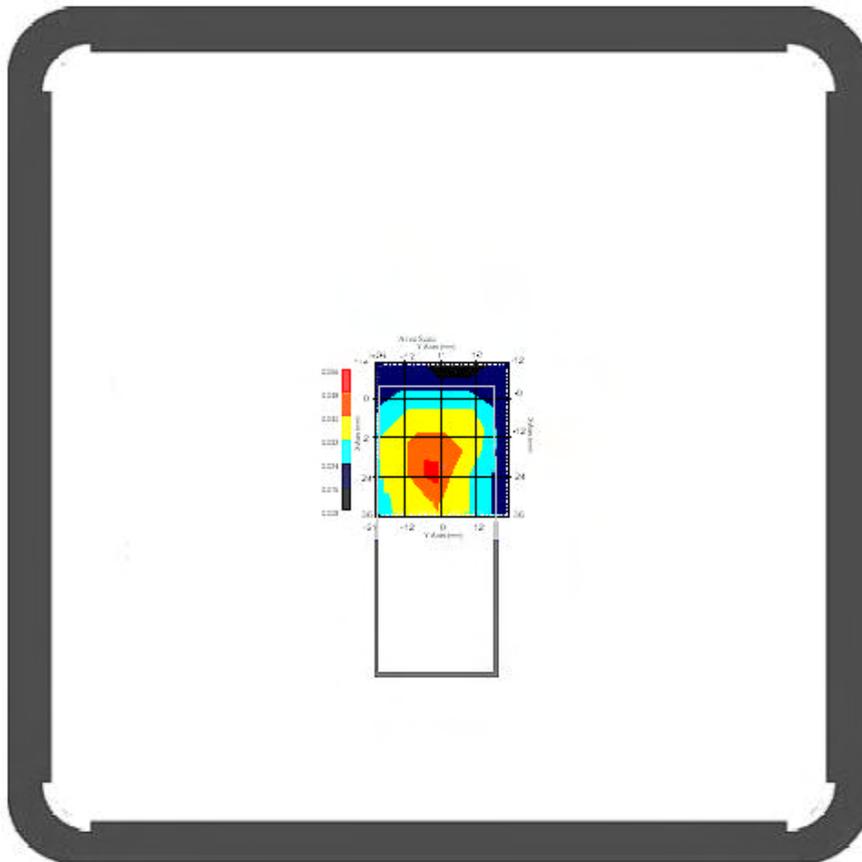
1 gram SAR value : 0.061 W/kg
10 gram SAR value : 0.054 W/kg
Area Scan Peak SAR : 0.076 W/kg
Zoom Scan Peak SAR : 0.134 W/kg



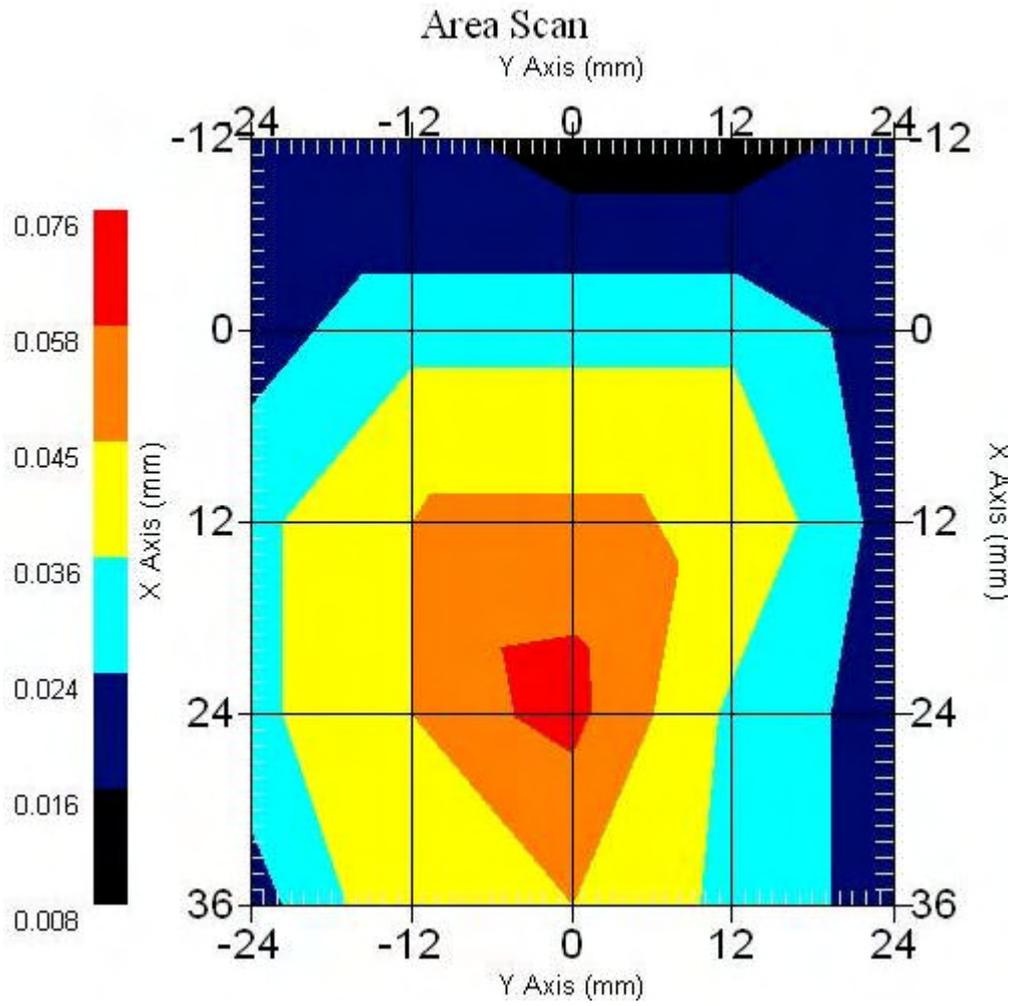
Measurement Data

Crest Factor : 8
Tissue Temp. : 20.20 °C
Ambient Temp. : 21.30 °C
Area Scan : 5x5x1 : Measurement x=12mm, y=12mm, z=4mm
Zoom Scan : 7x7x7 : Measurement x=5mm, y=5mm, z=5mm
Power Drift-Start : 0.029 W/kg
Power Drift-Finish: 0.028 W/kg
Power Drift (%) : -3.571

DUT Position : Touch
Channel : 189



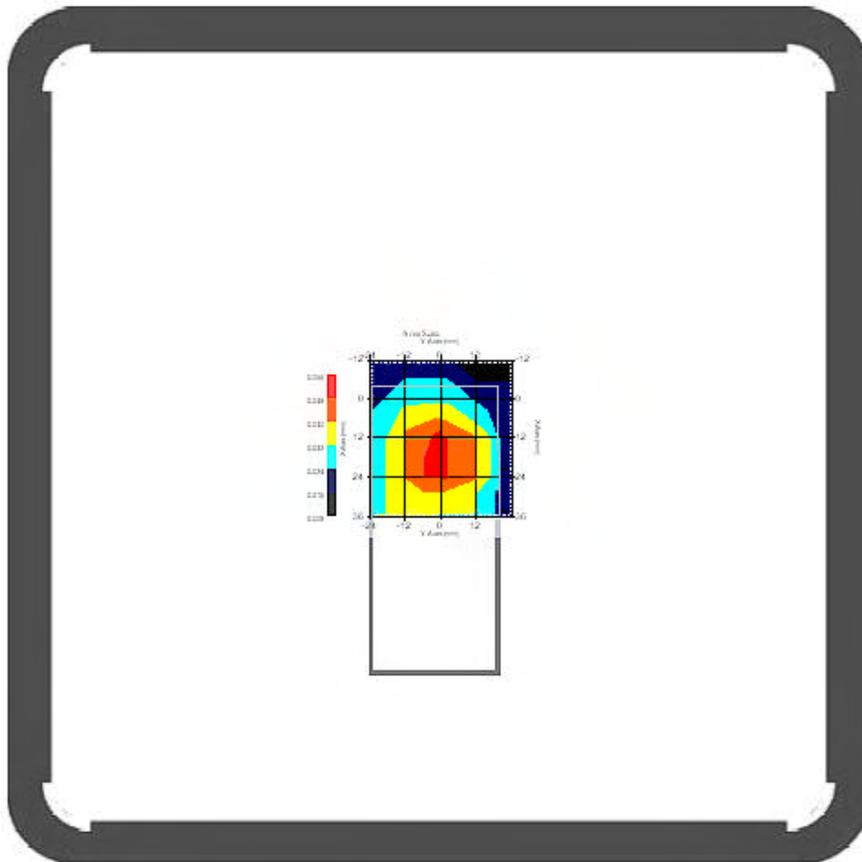
1 gram SAR value : 0.067 W/kg
10 gram SAR value : 0.049 W/kg
Area Scan Peak SAR : 0.076 W/kg
Zoom Scan Peak SAR : 0.114 W/kg



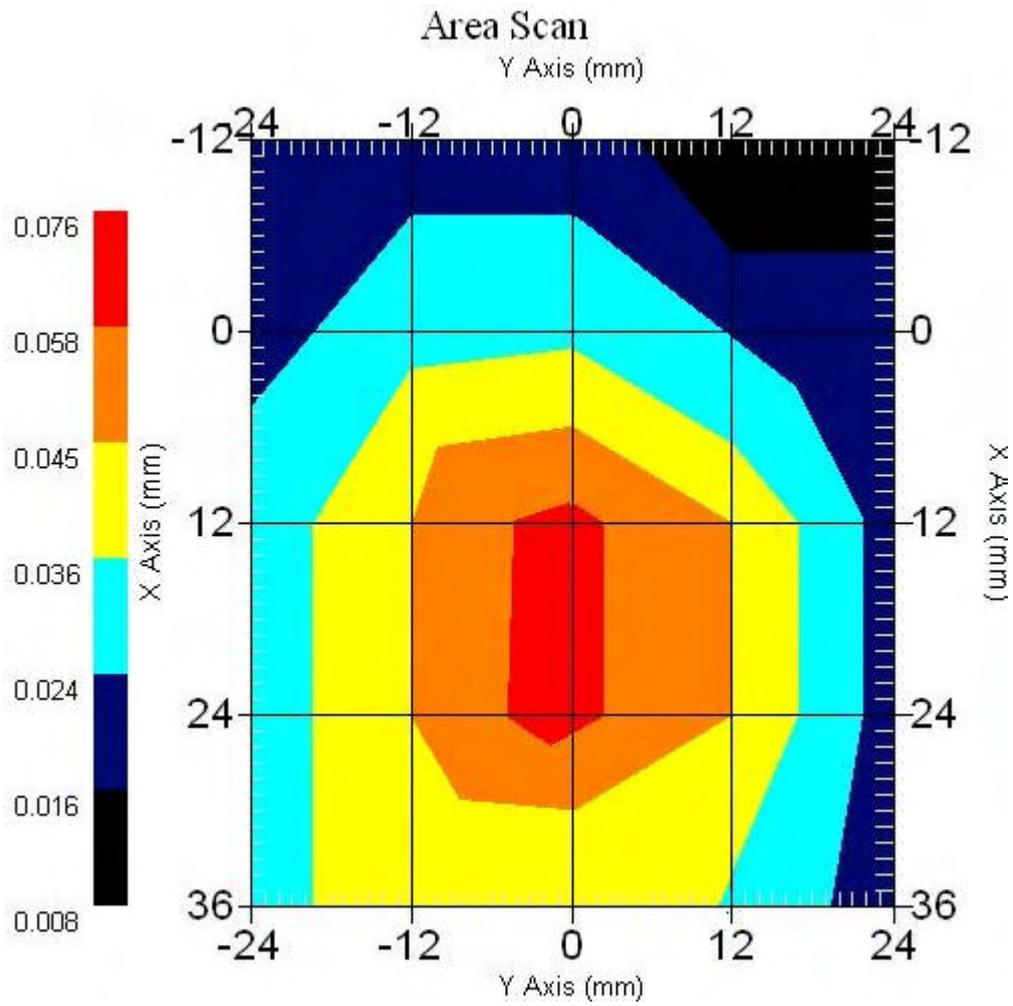
Measurement Data

Crest Factor : 8
Tissue Temp. : 20.20 °C
Ambient Temp. : 21.30 °C
Area Scan : 5x5x1 : Measurement x=12mm, y=12mm, z=4mm
Zoom Scan : 7x7x7 : Measurement x=5mm, y=5mm, z=5mm
Power Drift-Start : 0.041 W/kg
Power Drift-Finish: 0.043 W/kg
Power Drift (%) : 4.651

DUT Position : Touch
Channel : 251



1 gram SAR value : 0.064 W/kg
10 gram SAR value : 0.049 W/kg
Area Scan Peak SAR : 0.076 W/kg
Zoom Scan Peak SAR : 0.127 W/kg



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SAR Test Report-PCS 1900

Report Date : 01-Feb-2008
Measurement Date : 01-Feb-2008

Product Data

Device Name : MOBILE PHONE
Type : Std Form Cell Phone
Model : T208
Frequency : 1900.00 MHz
Max. Transmit Pwr : 1 W
Drift Time : 0 min(s)
Length : 102 mm
Width : 45 mm
Depth : 14 mm
Antenna Type : Internal

Phantom Data

Type : SAM-Right
Size (mm) : 280 x 280 x 280
Location : Right

Tissue Data

Type : HEAD
Serial No. : 324-H
Frequency : 1900.00 MHz
Last Calib. Date : 01-Feb-2008
Temperature : 20.20 °C
Ambient Temp. : 21.30 °C
Humidity : 63.00 RH%
Epsilon : 39.80 F/m
Sigma : 1.443 S/m
Density : 1000.00 kg/cu. m

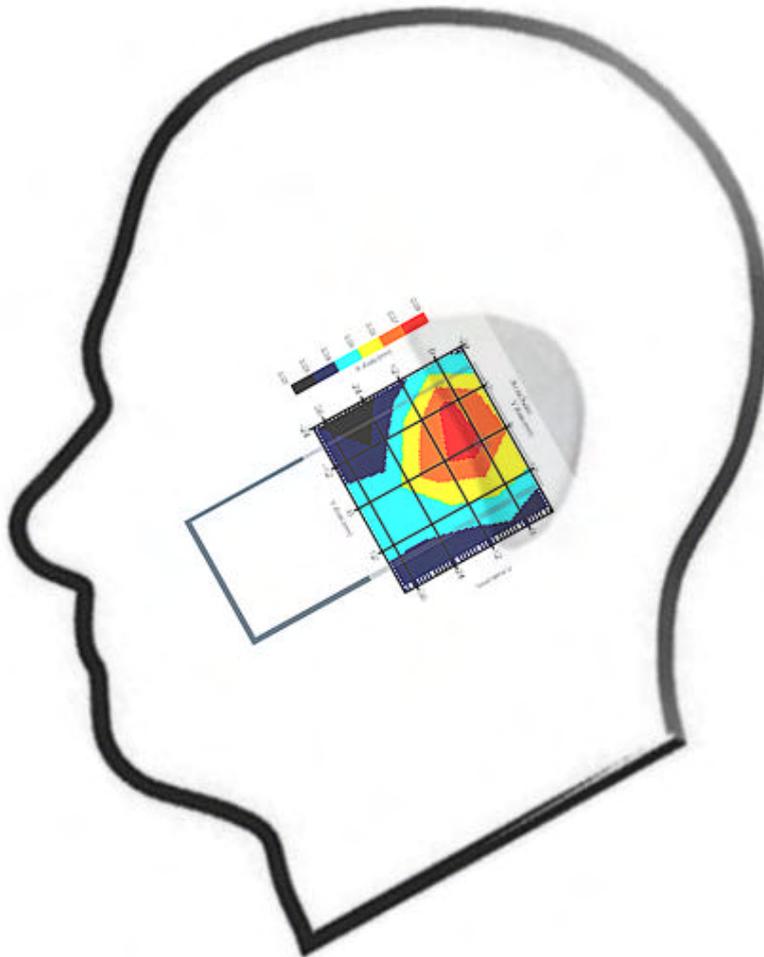
Probe Data

Name : Probe 264
Model : E020
Type : E-Field Triangle
Serial No. : 264
Last Calib. Date : 21-Aug-2007
Frequency : 1900.00 MHz
Duty Cycle Factor: 8
Conversion Factor: 5.5
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

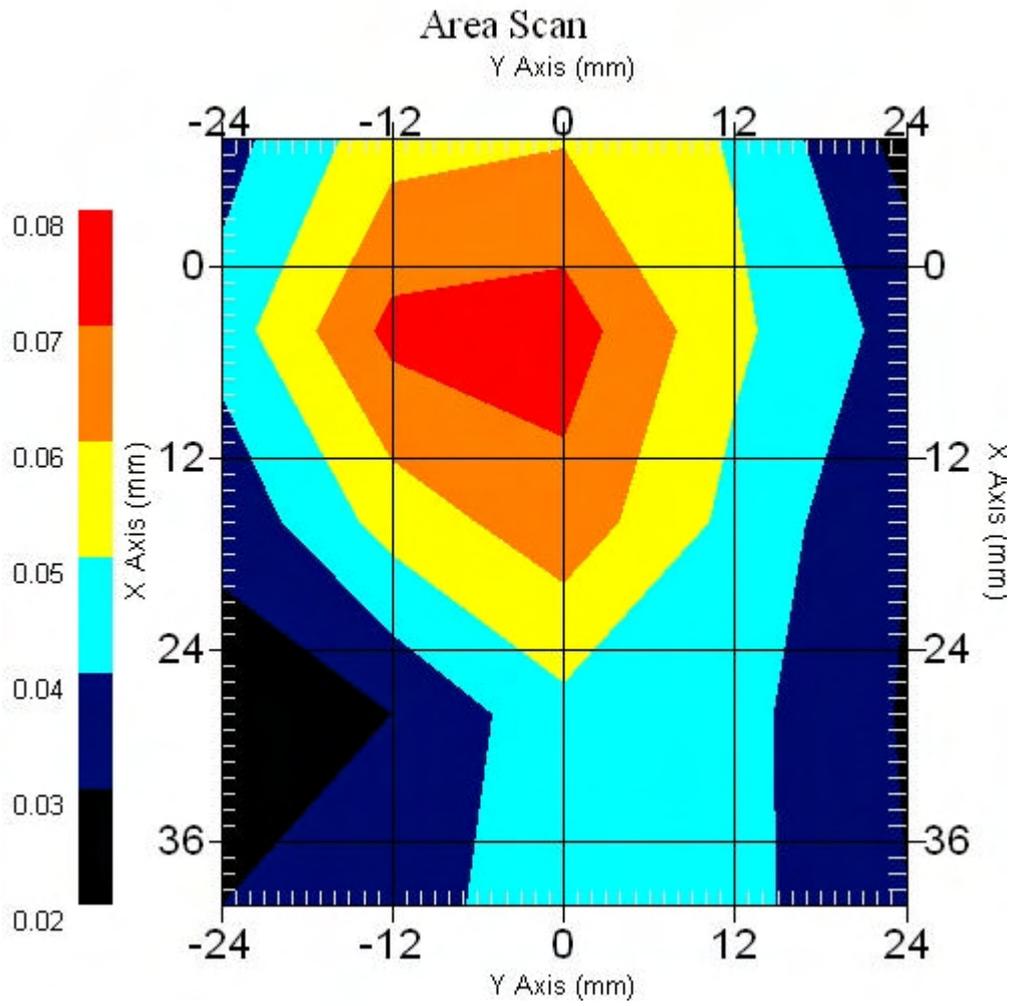
Measurement Data

Crest Factor : 8
Tissue Temp. : 20.20 °C
Ambient Temp. : 21.30 °C
Area Scan : 5x5x1 : Measurement x=12mm, y=12mm, z=4mm
Zoom Scan : 7x7x7 : Measurement x=5mm, y=5mm, z=5mm
Power Drift-Start : 0.073 W/kg
Power Drift-Finish: 0.073 W/kg
Power Drift (%) : -0.476

DUT Position : Touch
Channel : 512



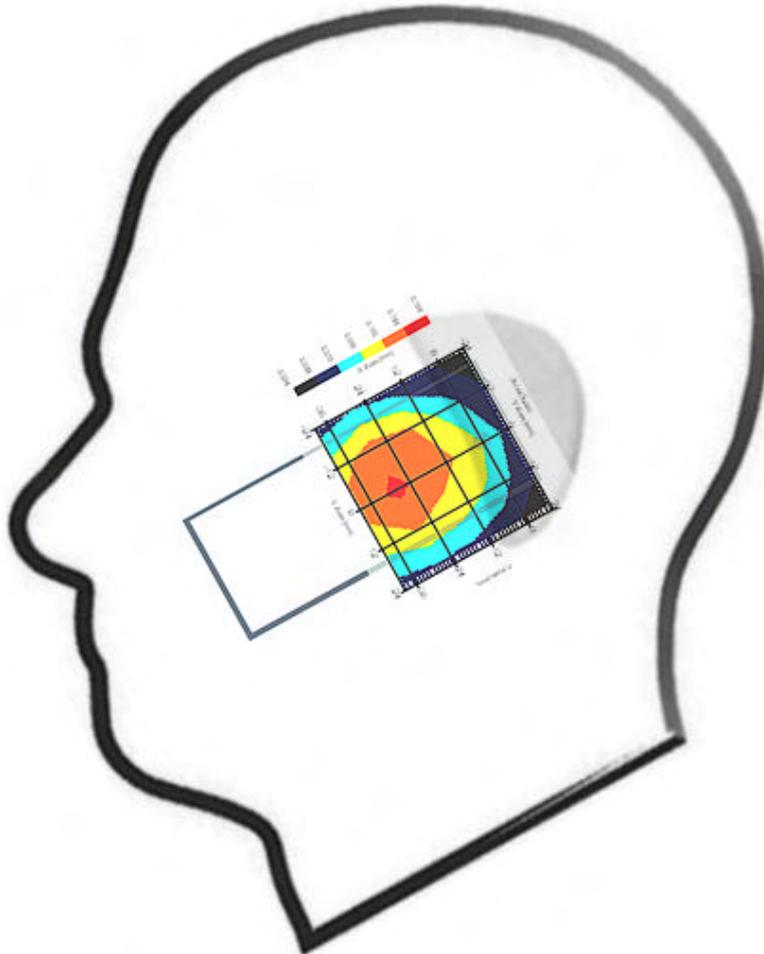
1 gram SAR value : 0.261 W/kg
10 gram SAR value : 0.187 W/kg
Area Scan Peak SAR : 0.075 W/kg
Zoom Scan Peak SAR : 0.437 W/kg



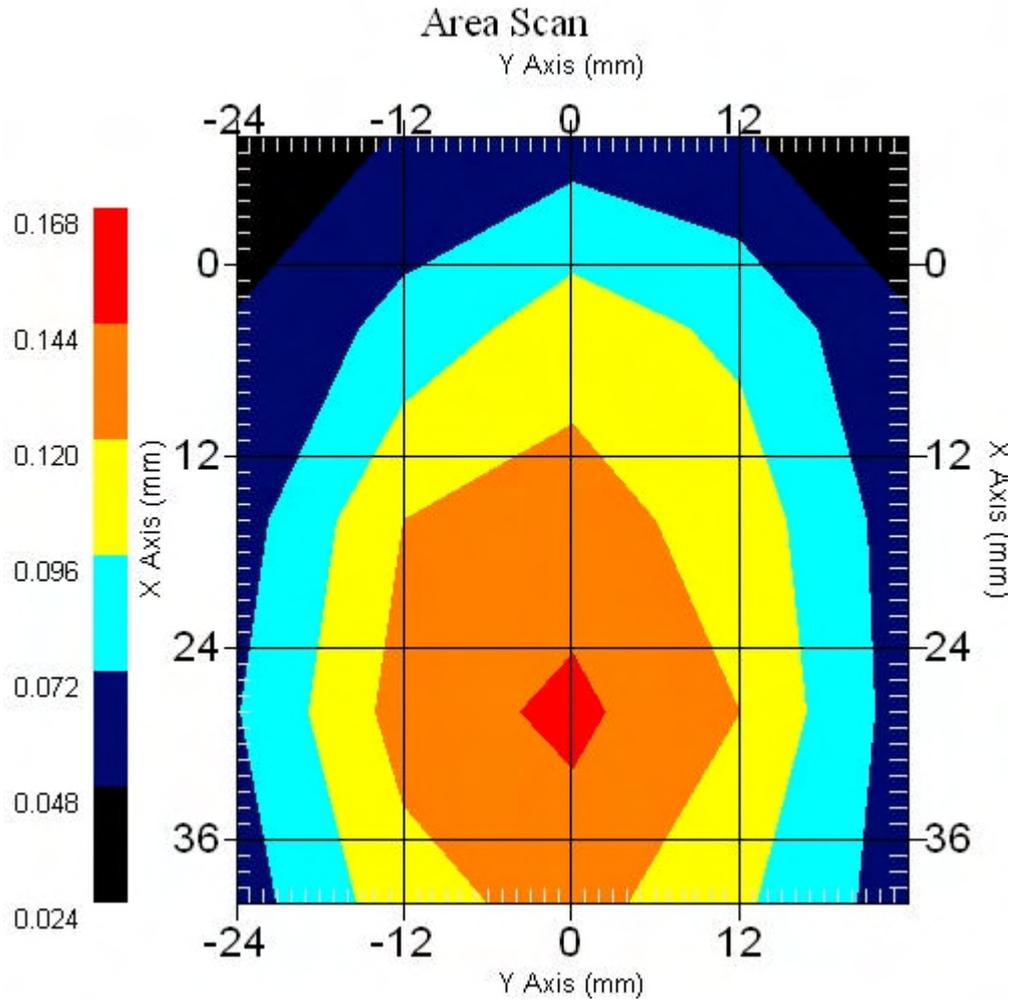
Measurement Data

Crest Factor : 8
Tissue Temp. : 21.20 °C
Ambient Temp. : 22.40 °C
Area Scan : 5x5x1 : Measurement x=12mm, y=12mm, z=4mm
Zoom Scan : 7x7x7 : Measurement x=5mm, y=5mm, z=5mm
Power Drift-Start : 0.098 W/kg
Power Drift-Finish: 0.094 W/kg
Power Drift (%) : -3.892

DUT Position : Touch
Channel : 661



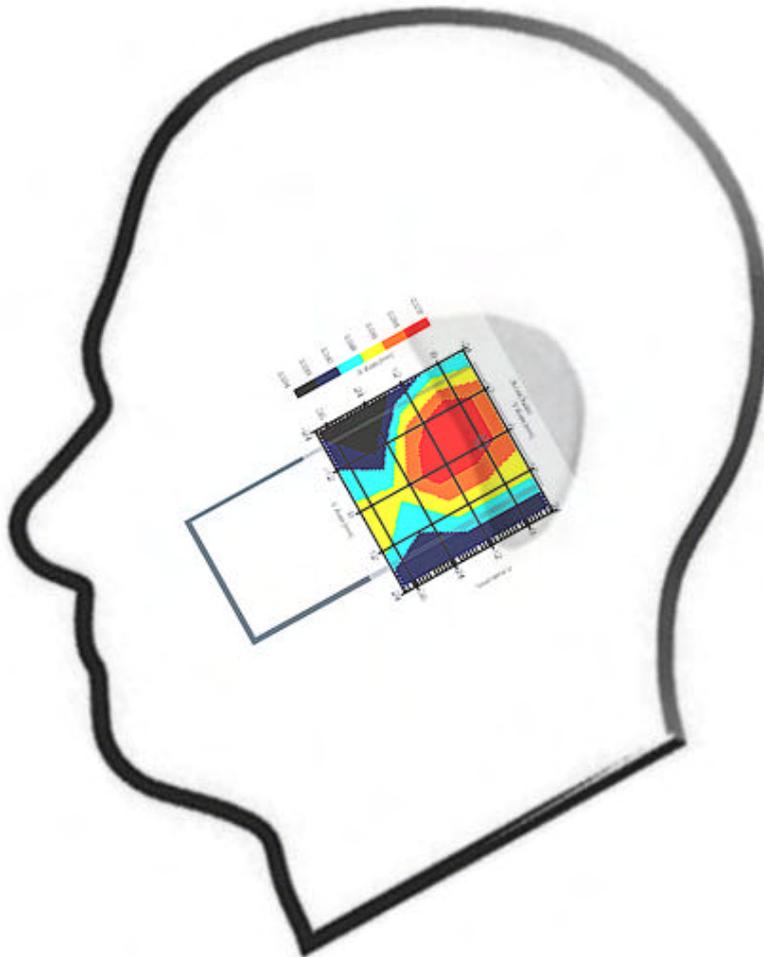
1 gram SAR value : 0.126 W/kg
10 gram SAR value : 0.089 W/kg
Area Scan Peak SAR : 0.150 W/kg
Zoom Scan Peak SAR : 0.248 W/kg



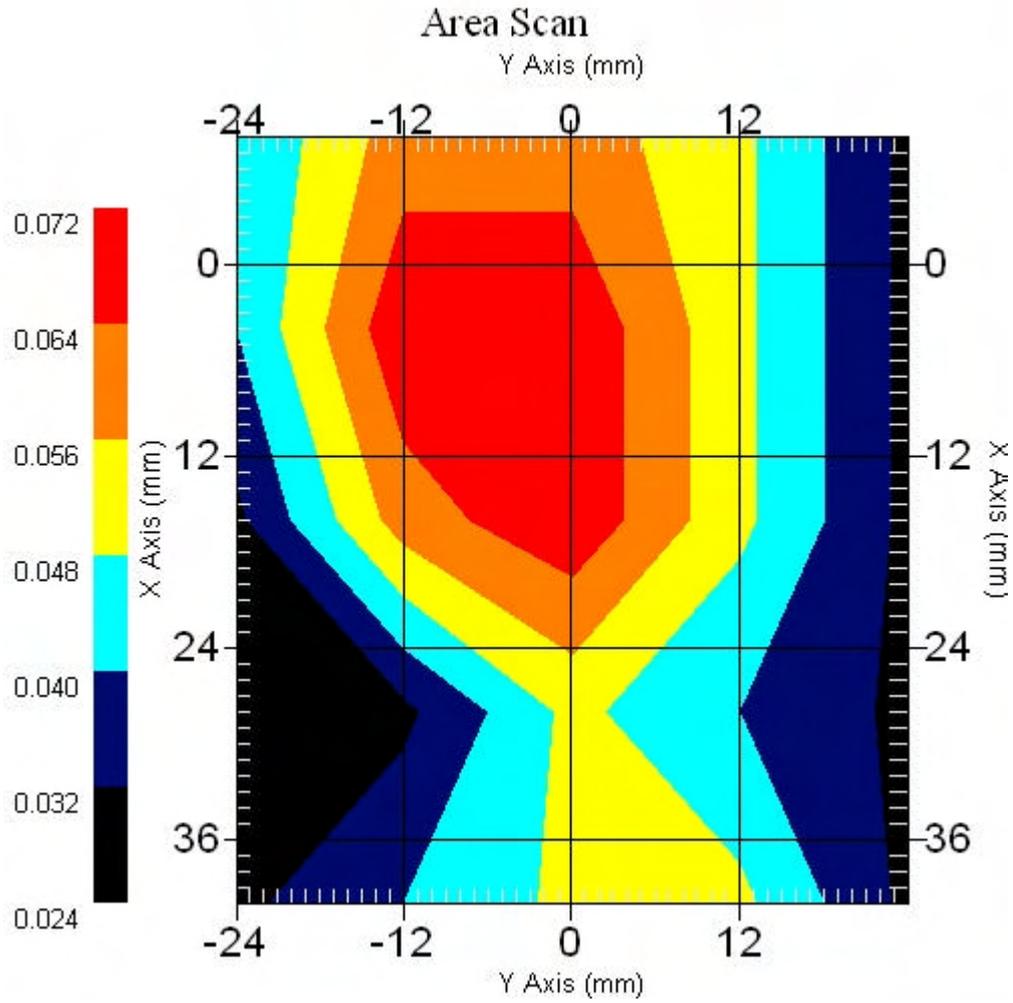
Measurement Data

Crest Factor : 8
Tissue Temp. : 20.20 °C
Ambient Temp. : 21.30 °C
Area Scan : 5x5x1 : Measurement x=12mm, y=12mm, z=4mm
Zoom Scan : 7x7x7 : Measurement x=5mm, y=5mm, z=5mm
Power Drift-Start : 0.075 W/kg
Power Drift-Finish: 0.074 W/kg
Power Drift (%) : -1.069

DUT Position : Touch
Channel : 810



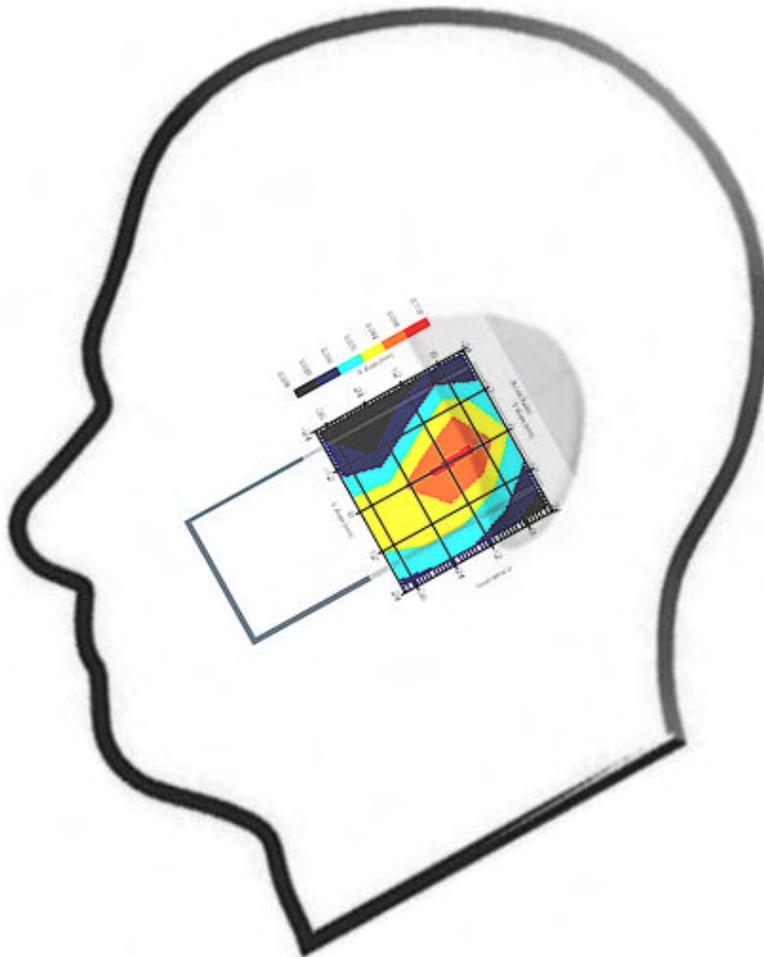
1 gram SAR value : 0.164 W/kg
10 gram SAR value : 0.126 W/kg
Area Scan Peak SAR : 0.072 W/kg
Zoom Scan Peak SAR : 0.122 W/kg



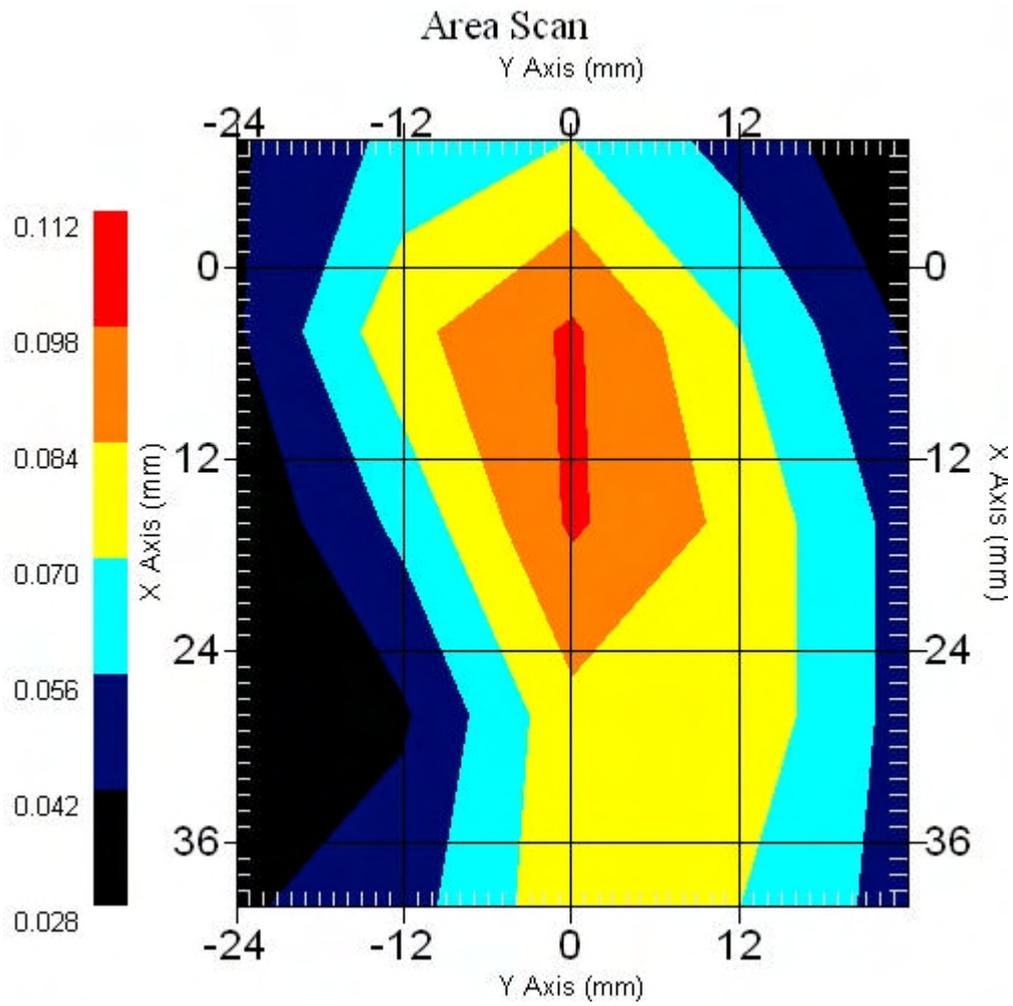
Measurement Data

Crest Factor : 8
Tissue Temp. : 20.20 °C
Ambient Temp. : 21.30 °C
Area Scan : 5x5x1 : Measurement x=12mm, y=12mm, z=4mm
Zoom Scan : 7x7x7 : Measurement x=5mm, y=5mm, z=5mm
Power Drift-Start : 0.092 W/kg
Power Drift-Finish: 0.090 W/kg
Power Drift (%) : -2.212

DUT Position : 15° Tilt
Channel : 512



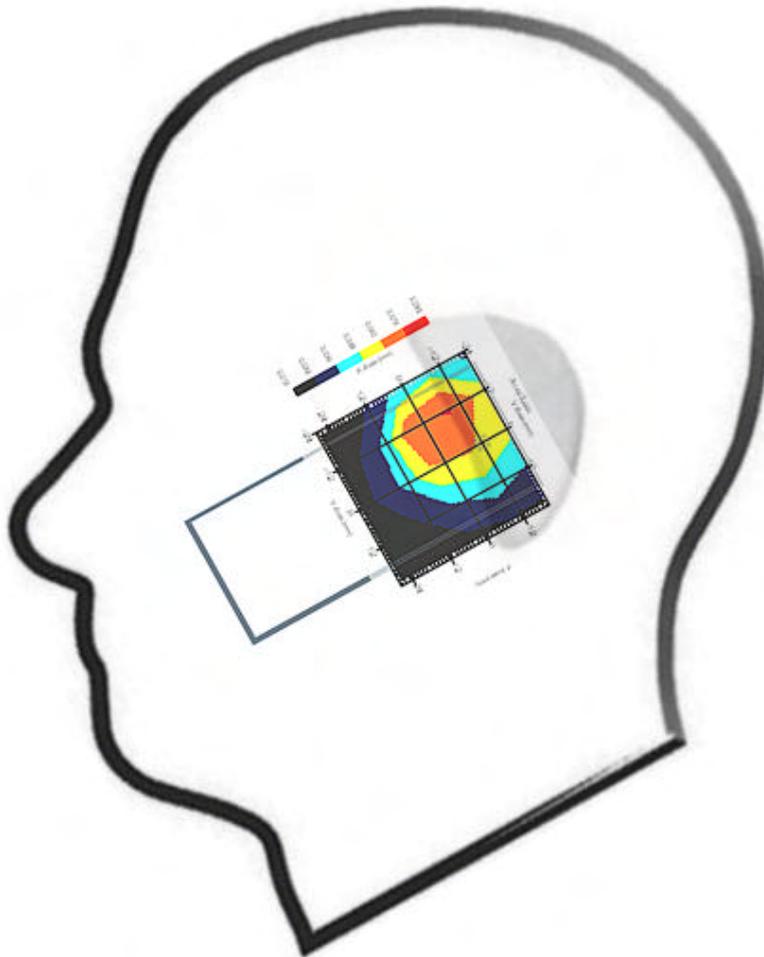
1 gram SAR value : 0.086 W/kg
10 gram SAR value : 0.062 W/kg
Area Scan Peak SAR : 0.100 W/kg
Zoom Scan Peak SAR : 0.177 W/kg



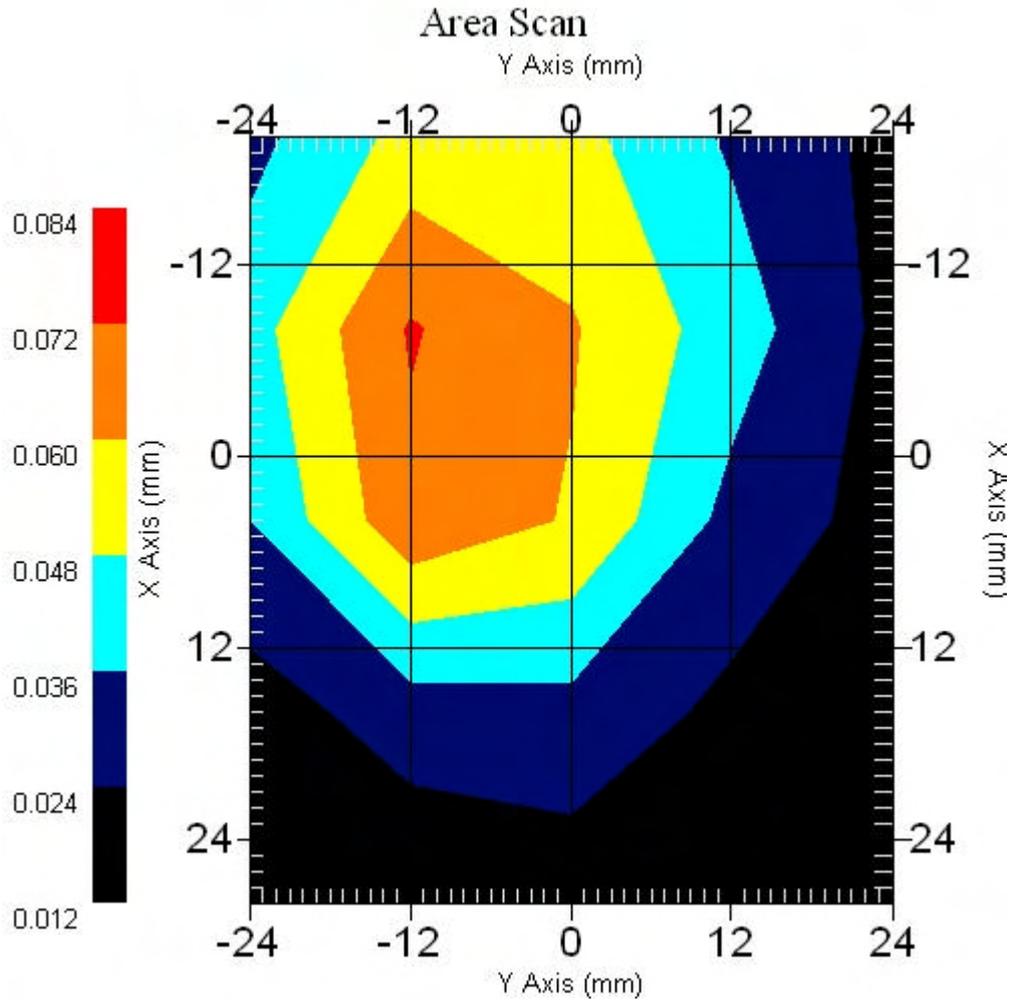
Measurement Data

Crest Factor : 8
Temperature : 20.20 °C
Ambient Temp. : 21.30 °C
Area Scan : 5x5x1 : Measurement x=12mm, y=12mm, z=4mm
Zoom Scan : 7x7x7 : Measurement x=5mm, y=5mm, z=5mm
Power Drift-Start : 0.062 W/kg
Power Drift-Finish: 0.063 W/kg
Power Drift (%) : 2.006

DUT Position : 15° Tilt
Channel : 661



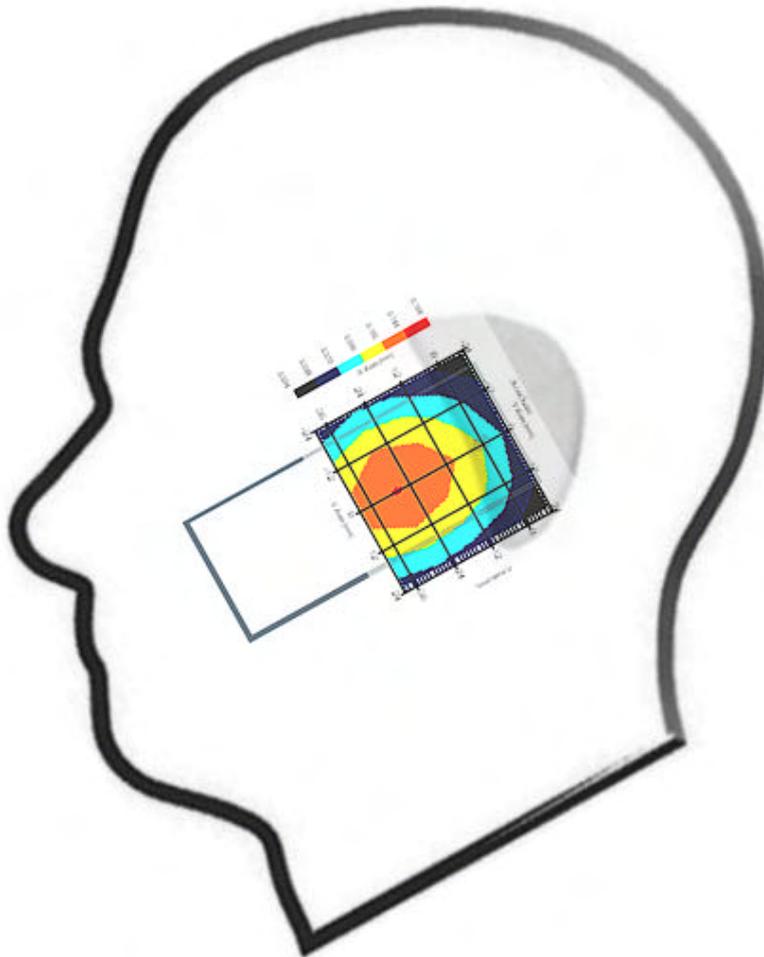
1 gram SAR value : 0.066 W/kg
10 gram SAR value : 0.038 W/kg
Area Scan Peak SAR : 0.073 W/kg
Zoom Scan Peak SAR : 0.120 W/kg



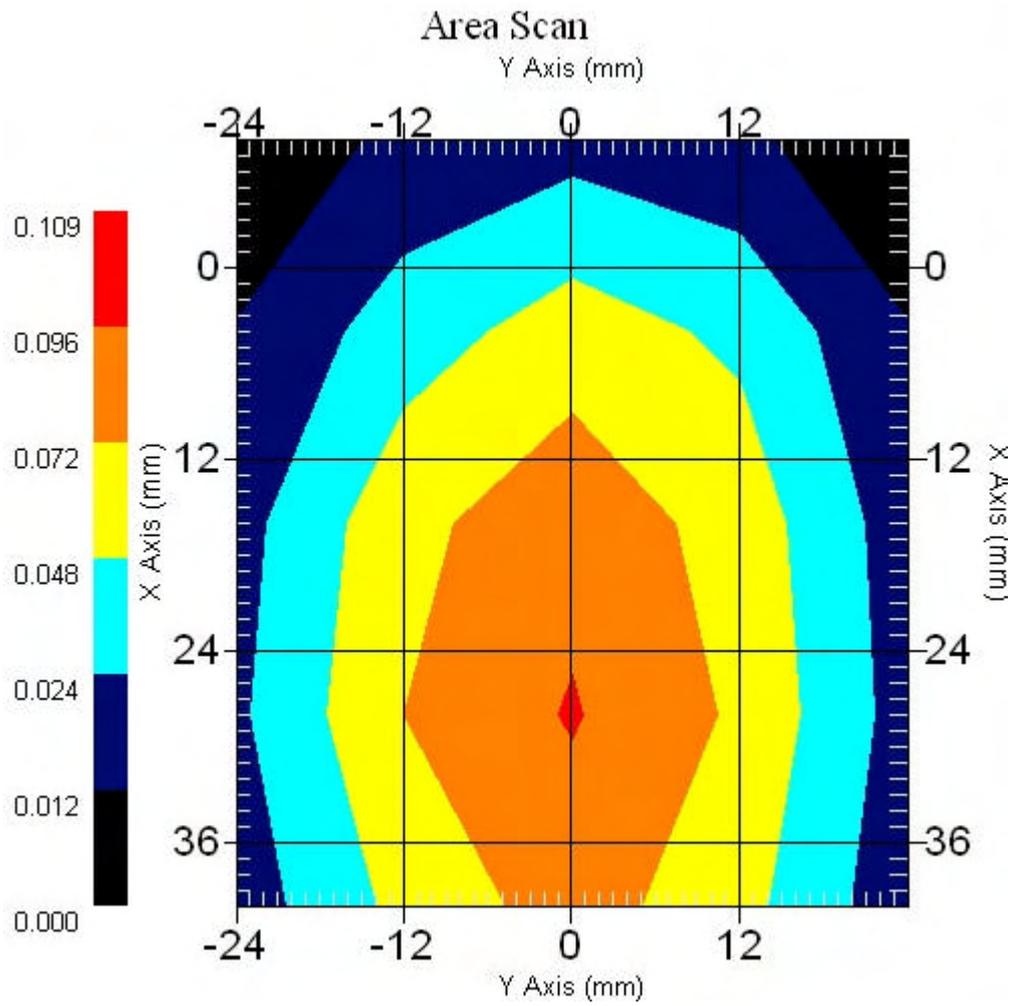
Measurement Data

Crest Factor : 8
Tissue Temp. : 20.20 °C
Ambient Temp. : 21.30 °C
Area Scan : 5x5x1 : Measurement x=12mm, y=12mm, z=4mm
Zoom Scan : 7x7x7 : Measurement x=5mm, y=5mm, z=5mm
Power Drift-Start : 0.093 W/kg
Power Drift-Finish: 0.093 W/kg
Power Drift (%) : 0.118

DUT Position : 15° Tilt
Channel : 810



1 gram SAR value : 0.082 W/kg
10 gram SAR value : 0.064 W/kg
Area Scan Peak SAR : 0.109 W/kg
Zoom Scan Peak SAR : 0.174 W/kg



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SAR Test Report

Report Date : 01-Feb-2008
Measurement Date : 01-Feb-2008

Product Data

Device Name : MOBILE PHONE
Type : Std Form Cell Phone
Model : T208
Frequency : 1900.00 MHz
Max. Transmit Pwr : 1 W
Drift Time : 0 min(s)
Length : 102 mm
Width : 45 mm
Depth : 14 mm
Antenna Type : Internal

Phantom Data

Type : SAM-Left
Size (mm) : 280 x 280 x 280
Location : Left

Tissue Data

Type : HEAD
Serial No. : 324-H
Frequency : 1900.00 MHz
Last Calib. Date : 01-Feb-2008
Temperature : 20.20 °C
Ambient Temp. : 21.30 °C
Humidity : 63.00 RH%
Epsilon : 39.80 F/m
Sigma : 1.443 S/m
Density : 1000.00 kg/cu. m

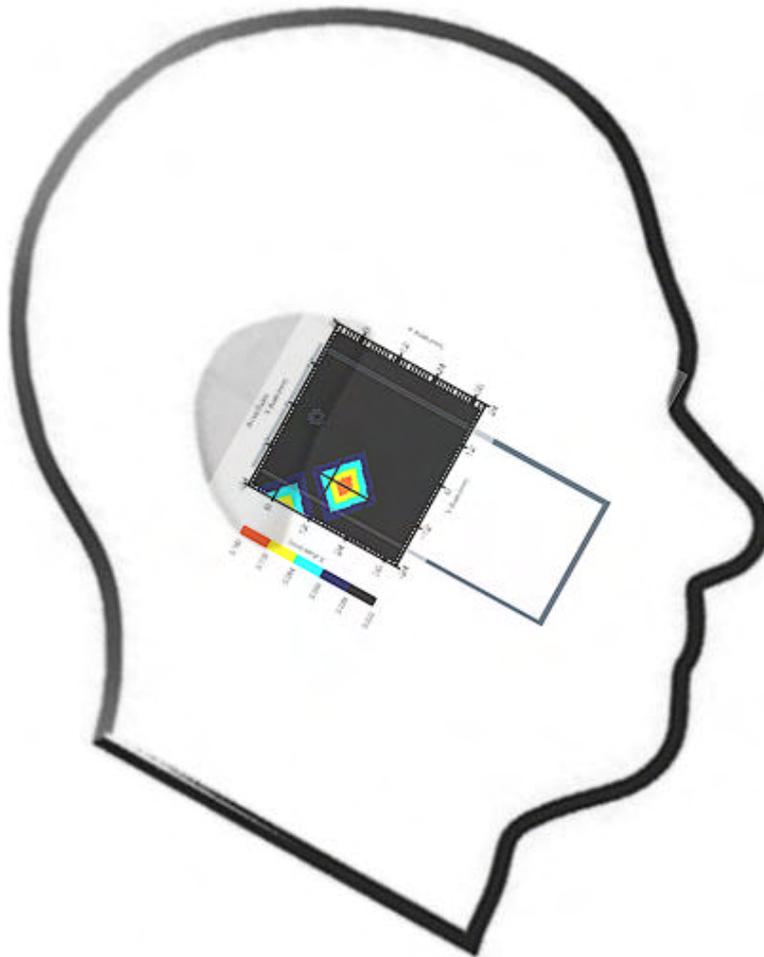
Probe Data

Name : Probe 264
Model : E020
Type : E-Field Triangle
Serial No. : 264
Last Calib. Date : 21-Aug-2007
Frequency : 1900.00 MHz
Duty Cycle Factor: 8
Conversion Factor: 5.5
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

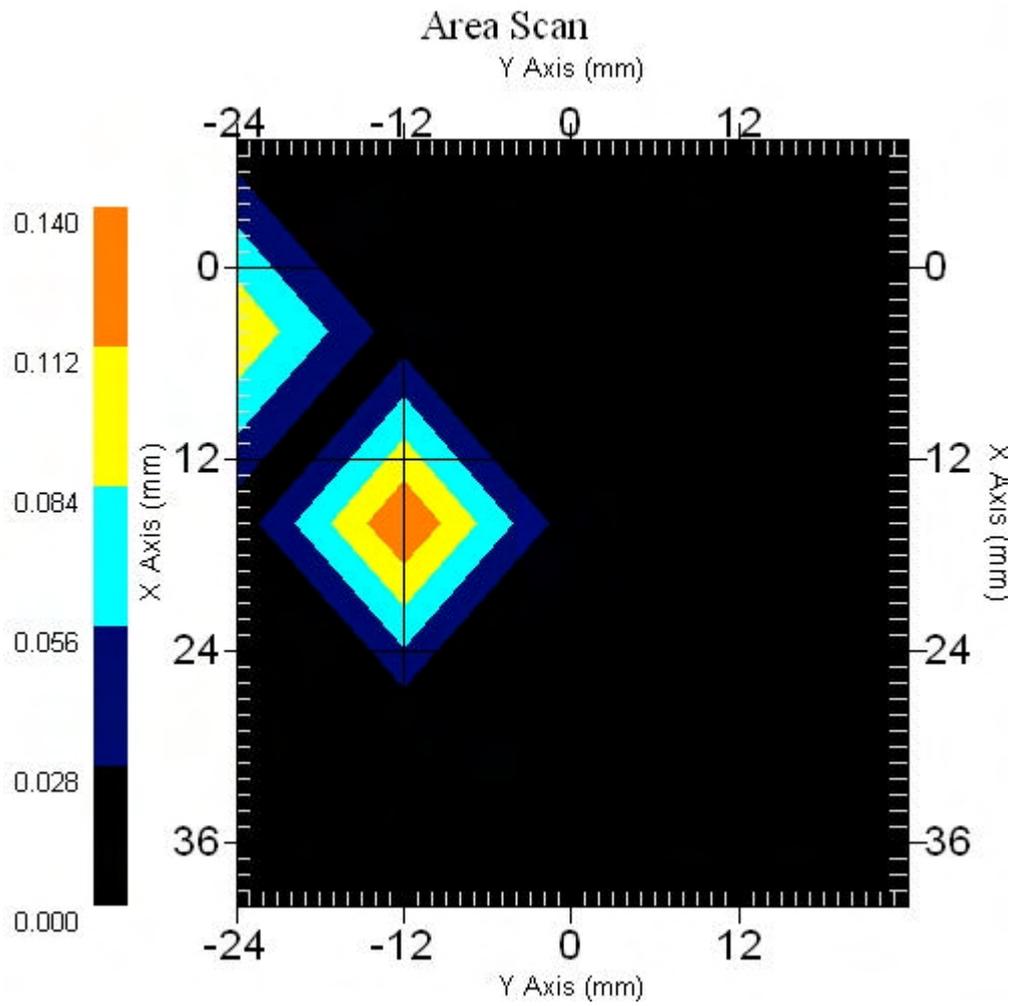
Measurement Data

Crest Factor : 8
Tissue Temp. : 20.20 °C
Ambient Temp. : 21.30 °C
Area Scan : 5x5x1 : Measurement x=12mm, y=12mm, z=4mm
Zoom Scan : 7x7x7 : Measurement x=5mm, y=5mm, z=5mm
Power Drift-Start : 0.022 W/kg
Power Drift-Finish: 0.023 W/kg
Power Drift (%) : 4.348

DUT Position : Touch
Channel : 512



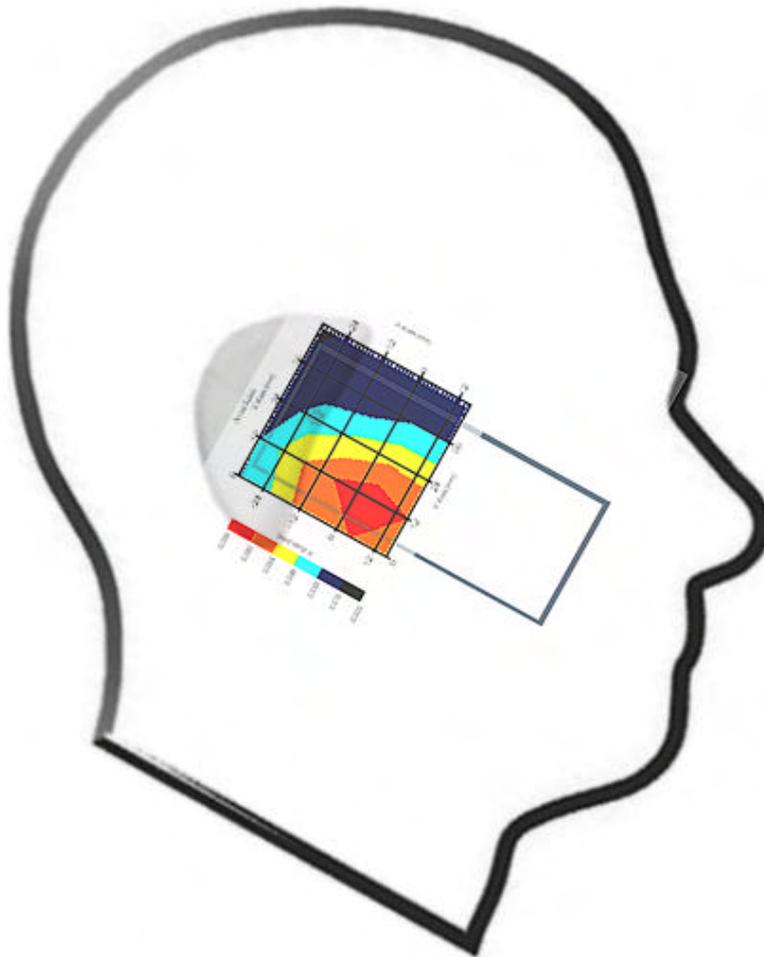
1 gram SAR value : 0.126 W/kg
10 gram SAR value : 0.068 W/kg
Area Scan Peak SAR : 0.140 W/kg
Zoom Scan Peak SAR : 0.232 W/kg



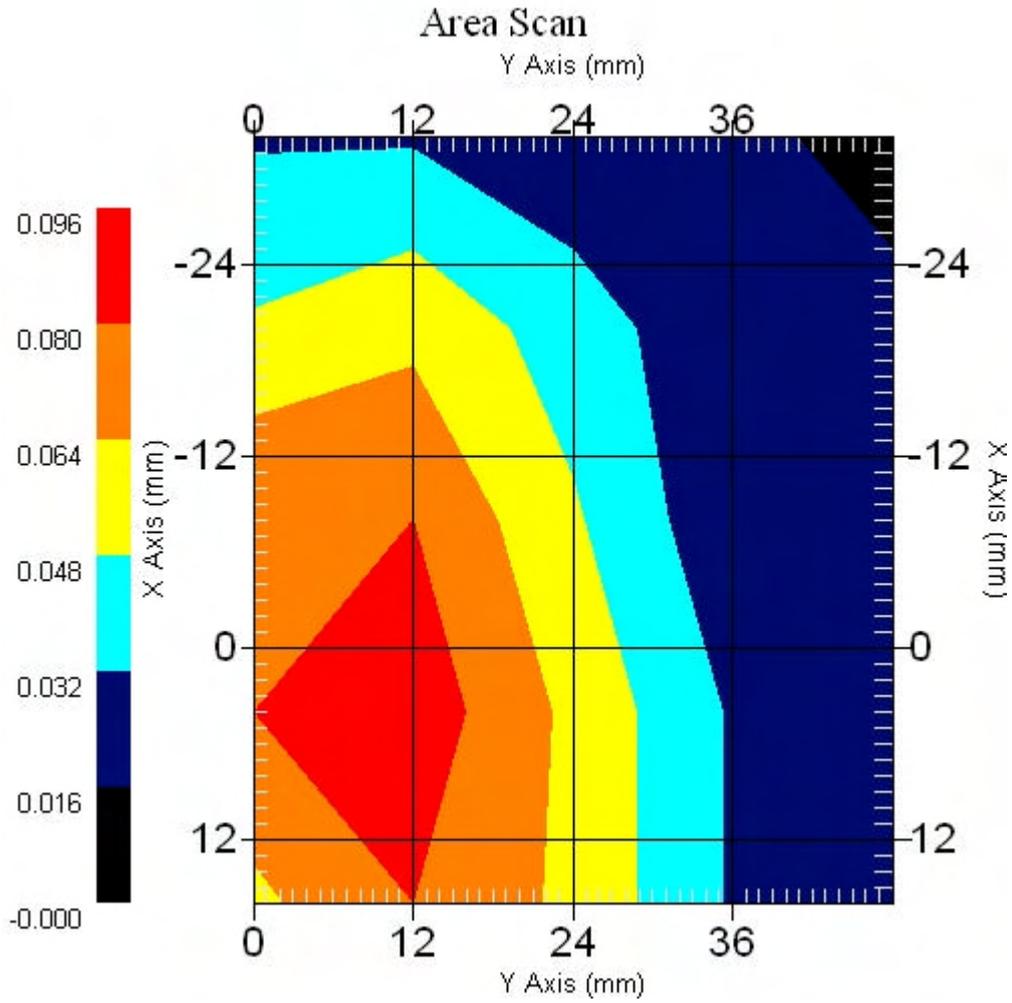
Measurement Data

Crest Factor : 8
Tissue Temp. : 20.20 °C
Ambient Temp. : 21.30 °C
Area Scan : 5x5x1 : Measurement x=12mm, y=12mm, z=4mm
Zoom Scan : 7x7x7 : Measurement x=5mm, y=5mm, z=5mm
Power Drift-Start : 0.084 W/kg
Power Drift-Finish: 0.082 W/kg
Power Drift (%) : -2.439

DUT Position : Touch
Channel : 661



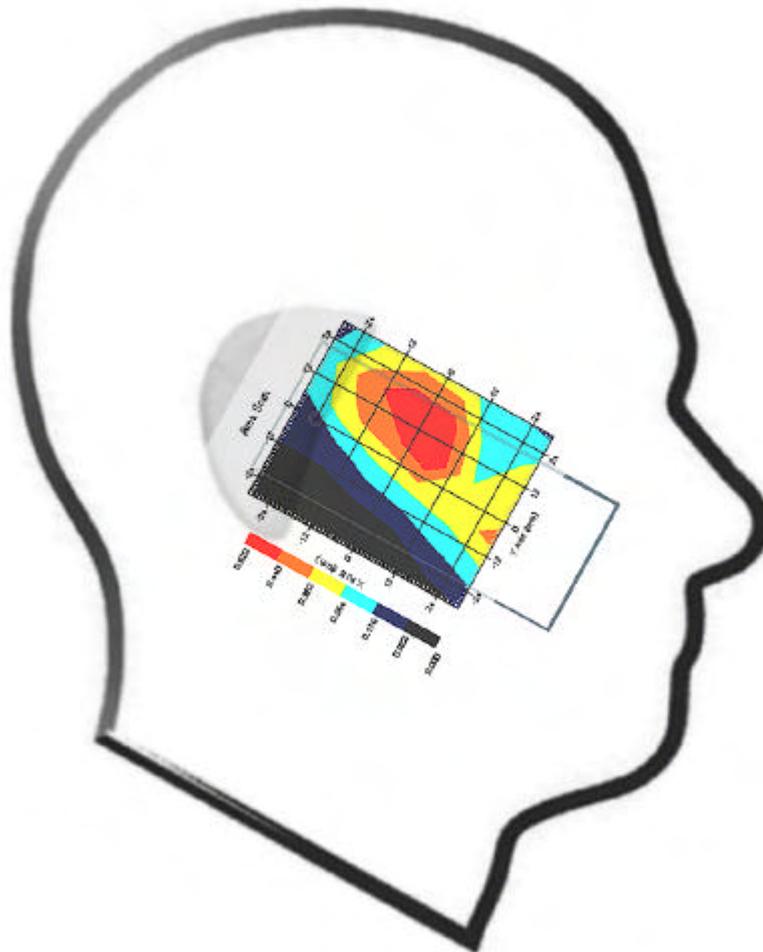
1 gram SAR value : 0.117 W/kg
10 gram SAR value : 0.093 W/kg
Area Scan Peak SAR : 0.096 W/kg
Zoom Scan Peak SAR : 0.201 W/kg



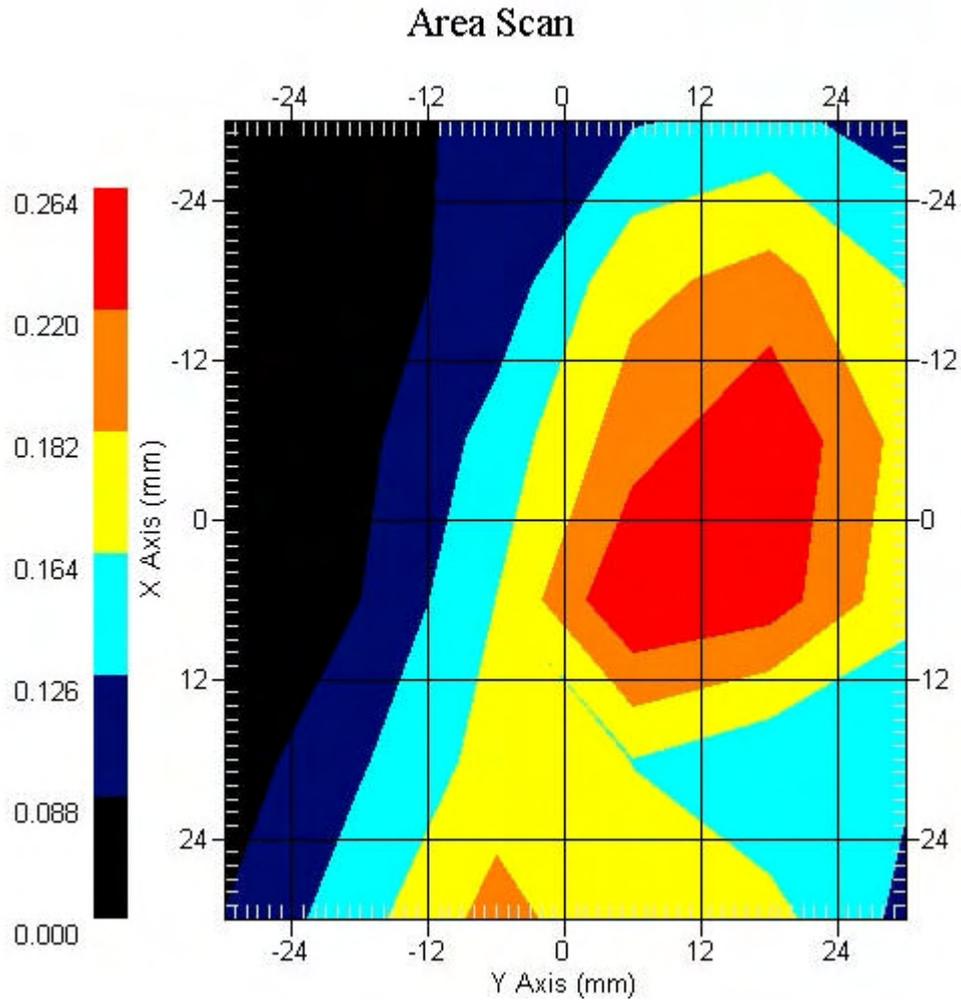
Measurement Data

Crest Factor : 8
Tissue Temp. : 20.20 °C
Ambient Temp. : 21.30 °C
Area Scan : 5x5x1 : Measurement x=12mm, y=12mm, z=4mm
Zoom Scan : 7x7x7 : Measurement x=5mm, y=5mm, z=5mm
Power Drift-Start : 0.033 W/kg
Power Drift-Finish: 0.034 W/kg
Power Drift (%) : 2.941

DUT Position : Touch
Channel : 810



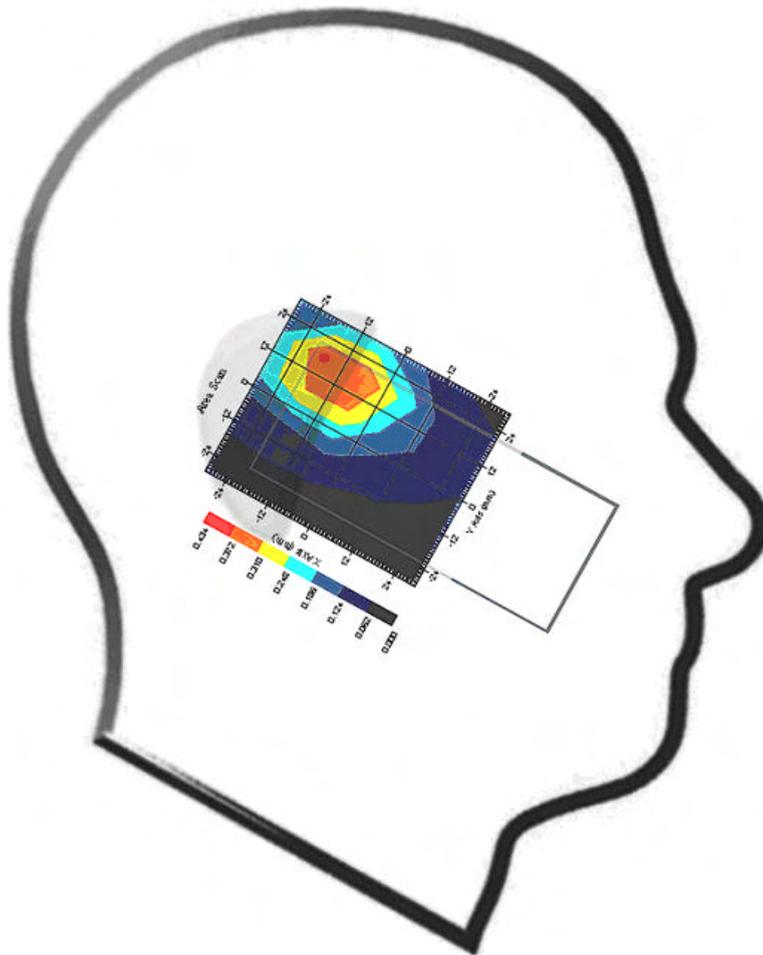
1 gram SAR value : 0.236 W/kg
10 gram SAR value : 0.178 W/kg
Area Scan Peak SAR : 0.260 W/kg
Zoom Scan Peak SAR : 0.432 W/kg



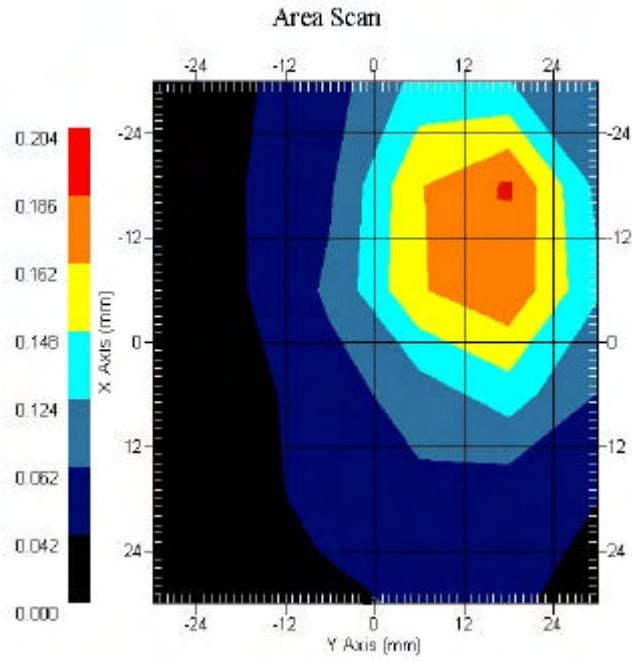
Measurement Data

Crest Factor : 8
Tissue Temp. : 20.20 °C
Ambient Temp. : 21.30 °C
Area Scan : 5x5x1 : Measurement x=12mm, y=12mm, z=4mm
Zoom Scan : 7x7x7 : Measurement x=5mm, y=5mm, z=5mm
Power Drift-Start : 0.085 W/kg
Power Drift-Finish: 0.086 W/kg
Power Drift (%) : 1.163

DUT Position : 15° Tilt
Channel : 512



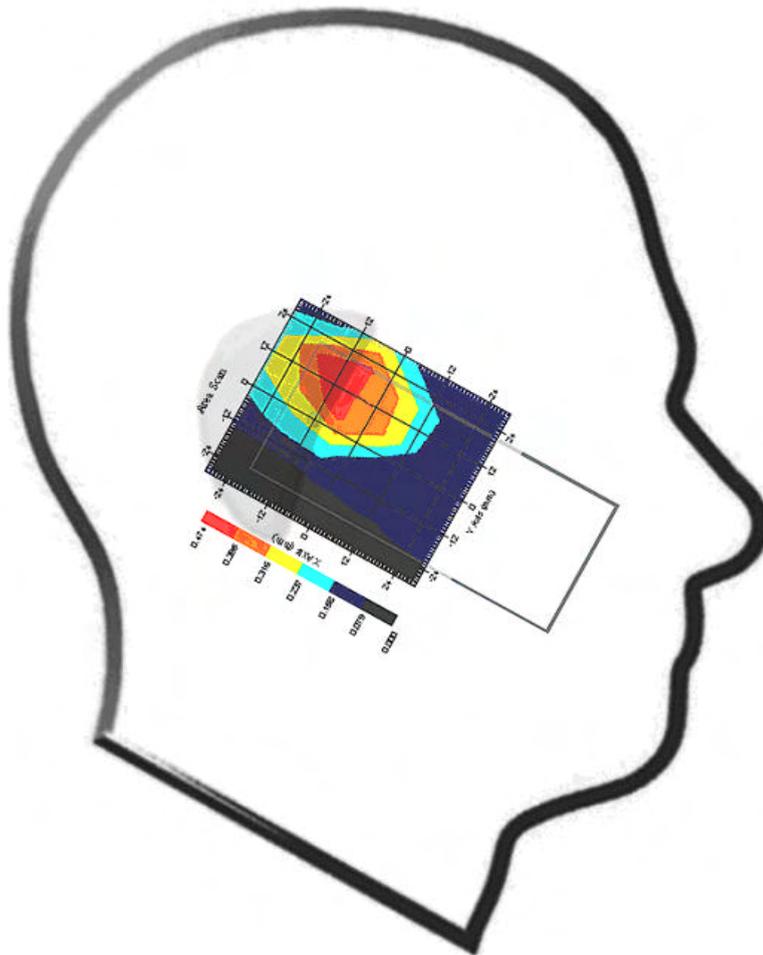
1 gram SAR value : 0.163 W/kg
10 gram SAR value : 0.138 W/kg
Area Scan Peak SAR : 0.204 W/kg
Zoom Scan Peak SAR : 0.337 W/kg



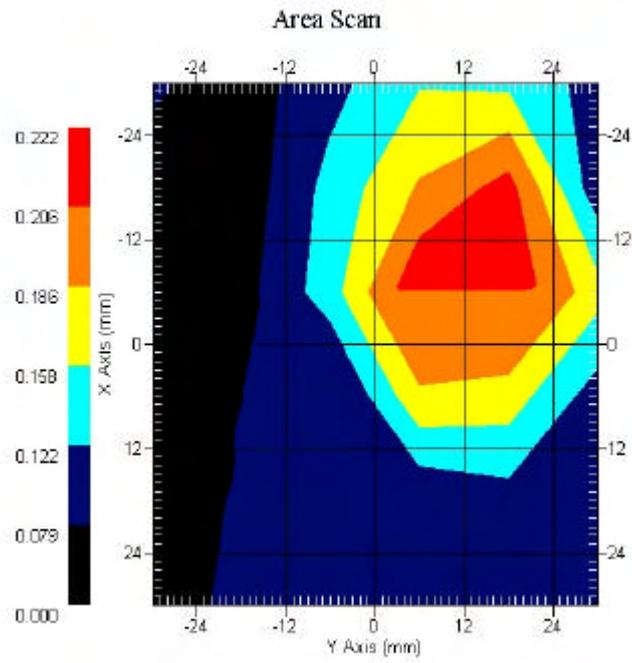
Measurement Data

Crest Factor : 8
 Tissue Temp. : 20.20 °C
 Ambient Temp. : 21.30 °C
 Area Scan : 5x5x1 : Measurement x=12mm, y=12mm, z=4mm
 Zoom Scan : 7x7x7 : Measurement x=5mm, y=5mm, z=5mm
 Power Drift-Start : 0.087 W/kg
 Power Drift-Finish: 0.089 W/kg
 Power Drift (%) : 2.247

DUT Position : 15° Tilt
 Channel : 661



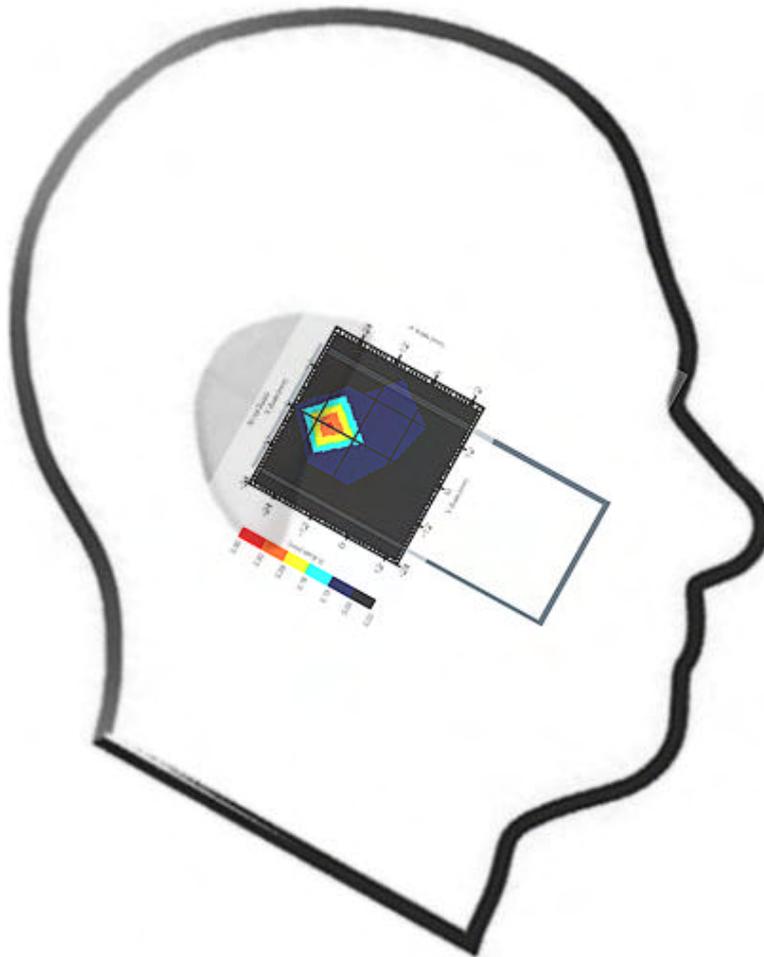
1 gram SAR value : 0.189 W/kg
 10 gram SAR value : 0.178 W/kg
 Area Scan Peak SAR : 0.220 W/kg
 Zoom Scan Peak SAR : 0.373 W/kg



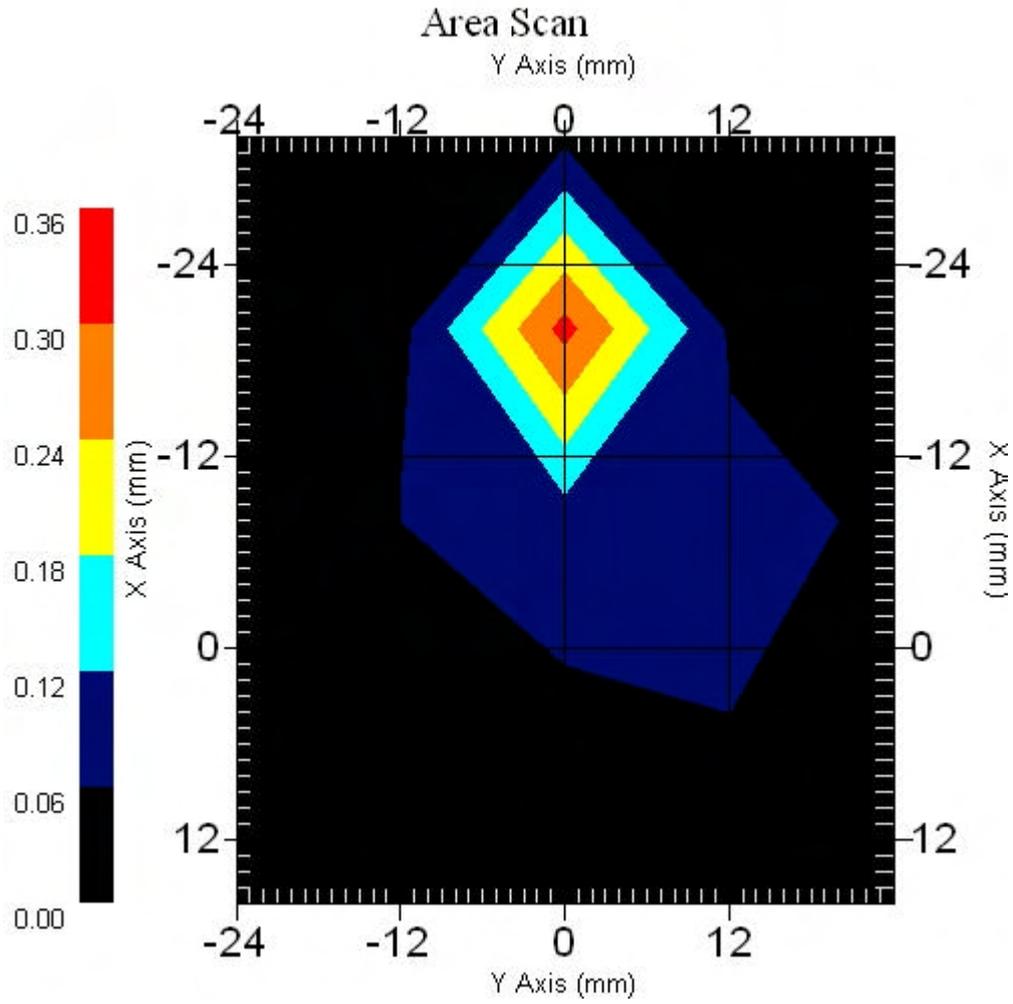
Measurement Data

Crest Factor : 8
Tissue Temp. : 20.20 °C
Ambient Temp. : 21.30 °C
Area Scan : 5x5x1 : Measurement x=12mm, y=12mm, z=4mm
Zoom Scan : 7x7x7 : Measurement x=5mm, y=5mm, z=5mm
Power Drift-Start : 0.083 W/kg
Power Drift-Finish: 0.086 W/kg
Power Drift (%) : 3.830

DUT Position : 15° Tilt
Channel : 810



1 gram SAR value : 0.201 W/kg
10 gram SAR value : 0.178 W/kg
Area Scan Peak SAR : 0.360 W/kg
Zoom Scan Peak SAR : 0.420 W/kg



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SAR Test Report

Report Date : 01-Feb-2008
Measurement Date : 01-Feb-2008

Product Data

Device Name : MOBILE PHONE
Type : Std Form Cell Phone
Model : T208
Frequency : 1900.00 MHz
Max. Transmit Pwr : 1 W
Drift Time : 0 min(s)
Length : 102 mm
Width : 45 mm
Depth : 14 mm
Antenna Type : Internal

Phantom Data

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

Tissue Data

Type : BODY
Serial No. : 324-B
Frequency : 1900.00 MHz
Last Calib. Date : 01-Feb-2008
Temperature : 20.20 °C
Ambient Temp. : 21.30 °C
Humidity : 63.00 RH%
Epsilon : 55.02 F/m
Sigma : 1.577 S/m
Density : 1000.00 kg/cu. m

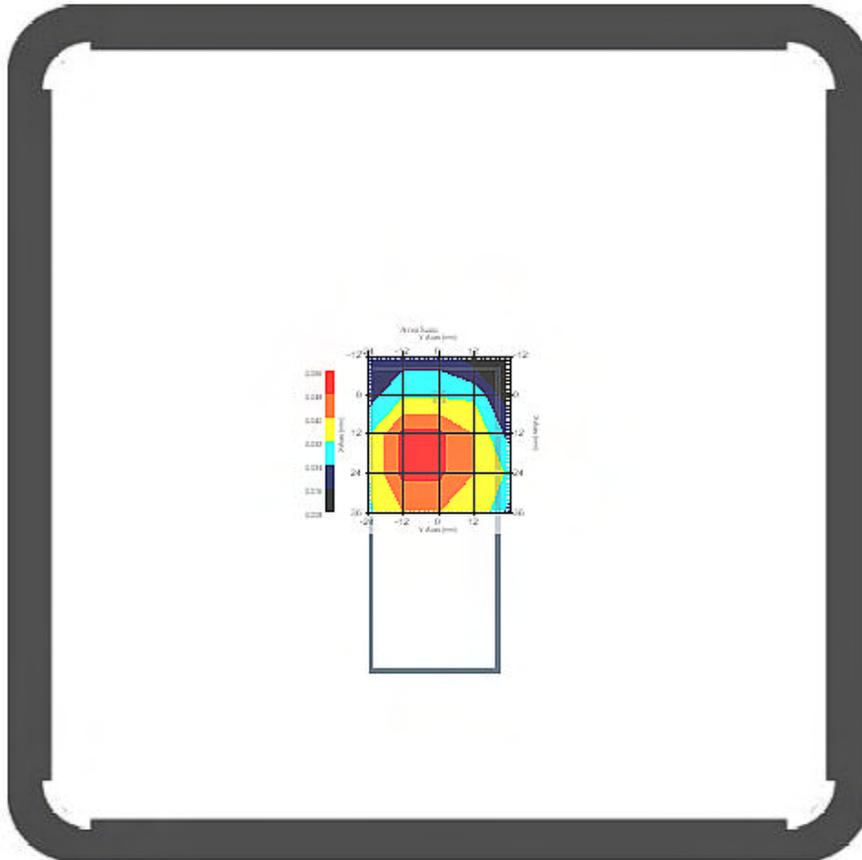
Probe Data

Name : Probe 264
Model : E020
Type : E-Field Triangle
Serial No. : 264
Last Calib. Date : 21-Aug-2007
Frequency : 1900.00 MHz
Duty Cycle Factor: 8
Conversion Factor: 5.75
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

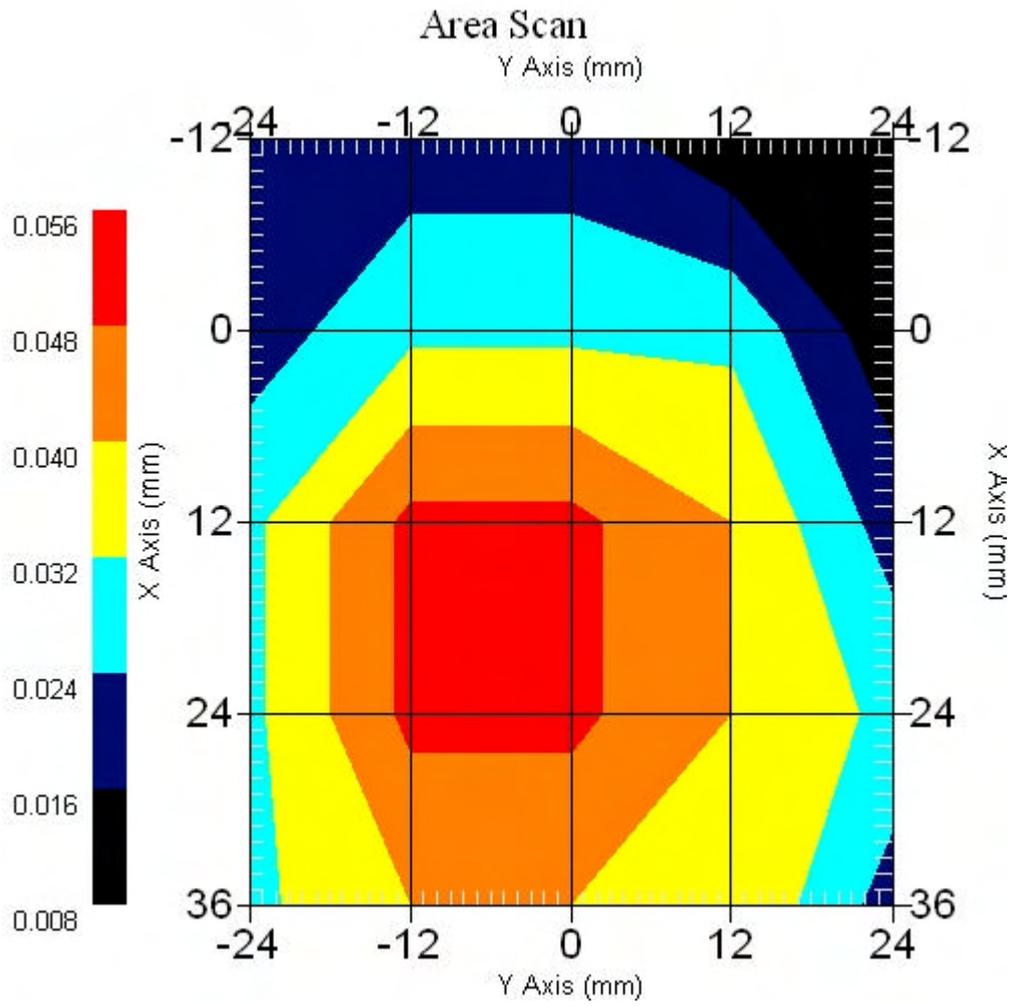
Measurement Data

Crest Factor : 8
Tissue Temp. : 20.20 °C
Ambient Temp. : 21.30 °C
Area Scan : 5x5x1 : Measurement x=12mm, y=12mm, z=4mm
Zoom Scan : 7x7x7 : Measurement x=5mm, y=5mm, z=5mm
Power Drift-Start : 0.032 W/kg
Power Drift-Finish: 0.033 W/kg
Power Drift (%) : 2.871

DUT Position : Touch
Channel : 512



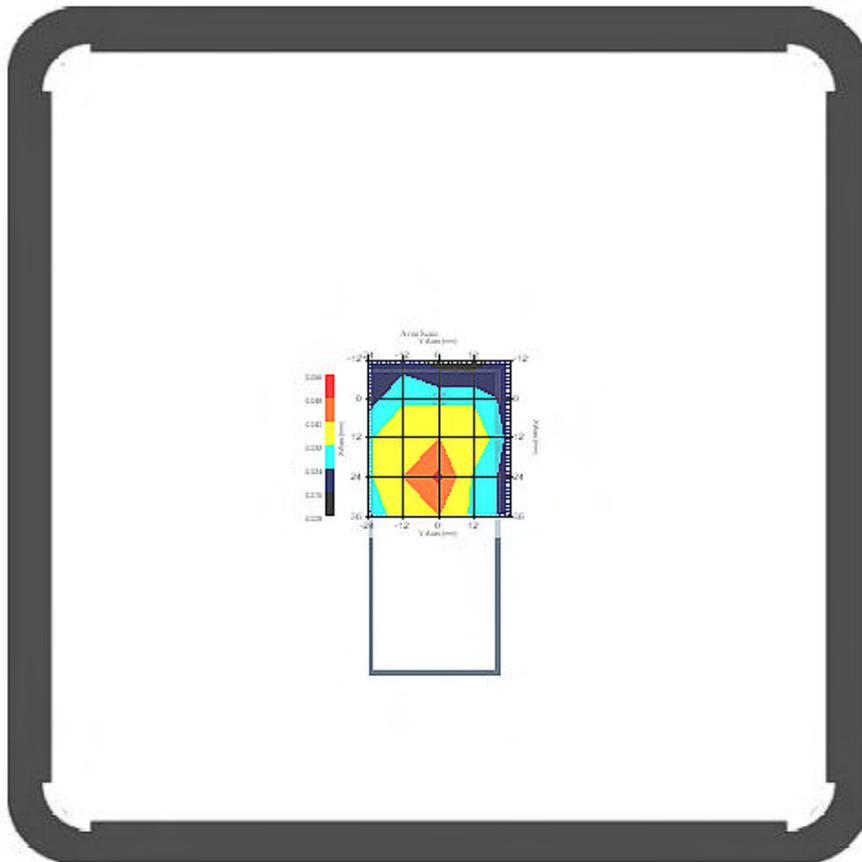
1 gram SAR value : 0.063 W/kg
10 gram SAR value : 0.035 W/kg
Area Scan Peak SAR : 0.050 W/kg
Zoom Scan Peak SAR : 0.087 W/kg



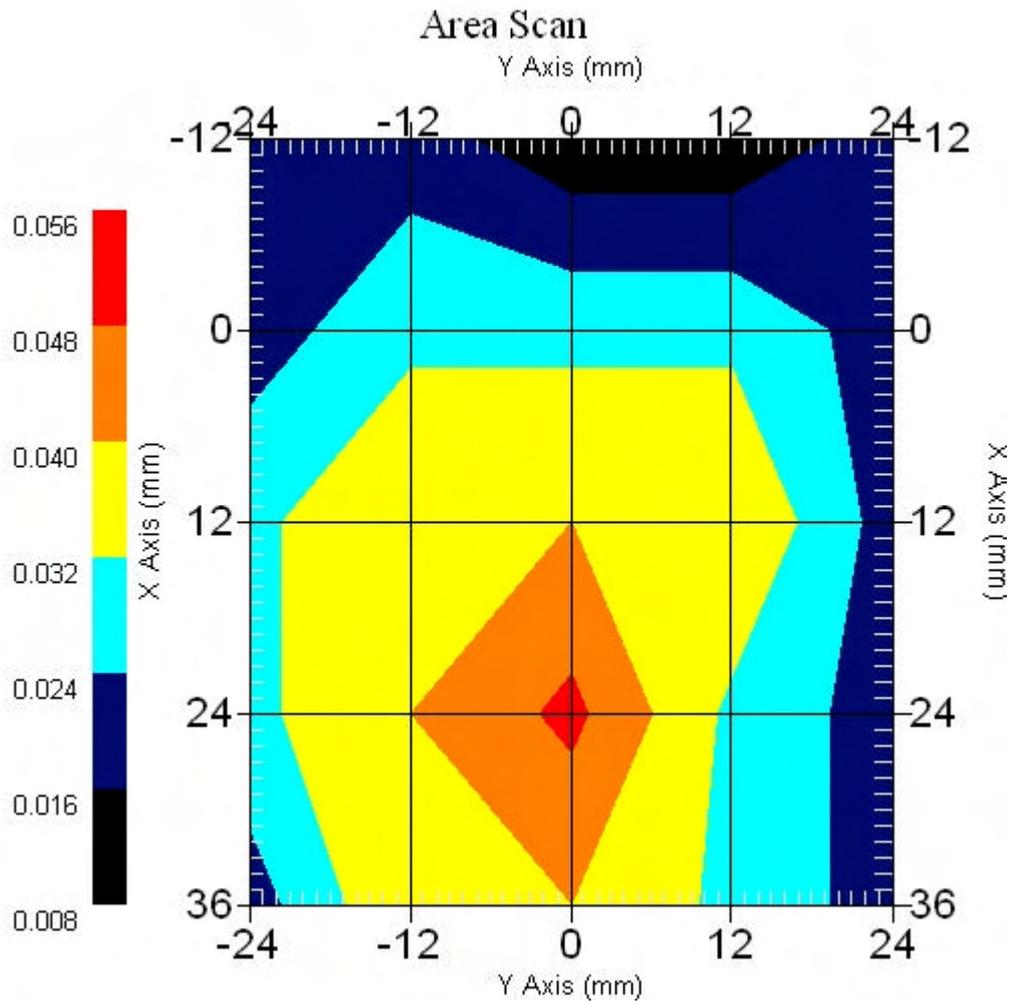
Measurement Data

Crest Factor : 8
Temperature : 20.20 °C
Ambient Temp. : 21.30 °C
Area Scan : 5x5x1 : Measurement x=12mm, y=12mm, z=4mm
Zoom Scan : 7x7x7 : Measurement x=5mm, y=5mm, z=5mm
Power Drift-Start : 0.033 W/kg
Power Drift-Finish: 0.032 W/kg
Power Drift (%) : -3.957

DUT Position : Touch
Channel : 661



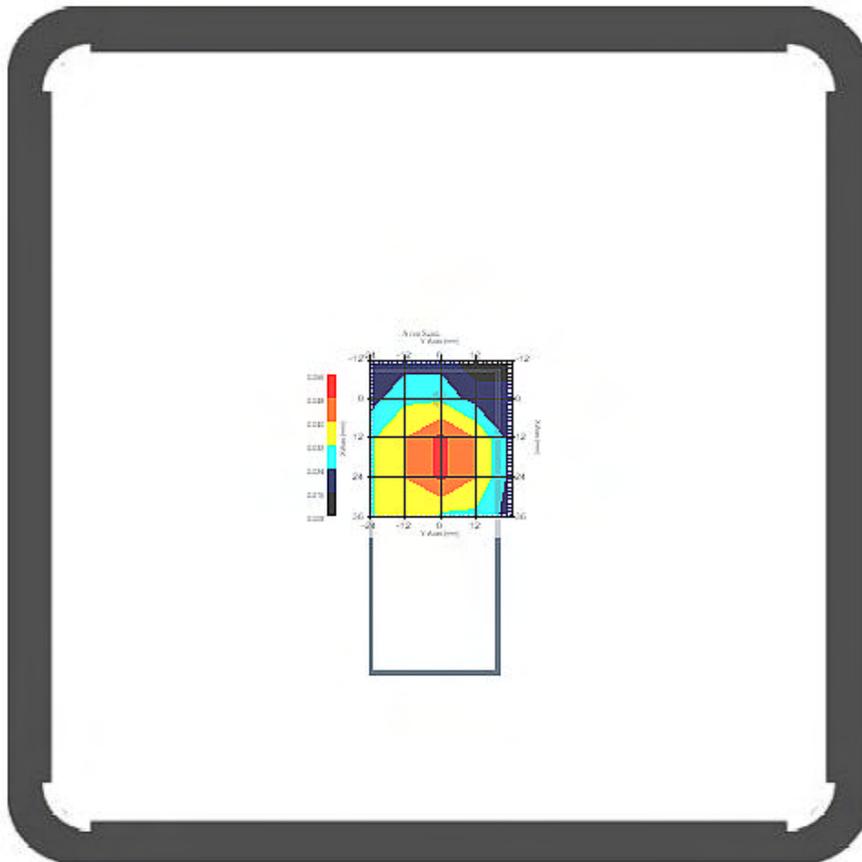
1 gram SAR value : 0.049 W/kg
10 gram SAR value : 0.038 W/kg
Area Scan Peak SAR : 0.056 W/kg
Zoom Scan Peak SAR : 0.102 W/kg



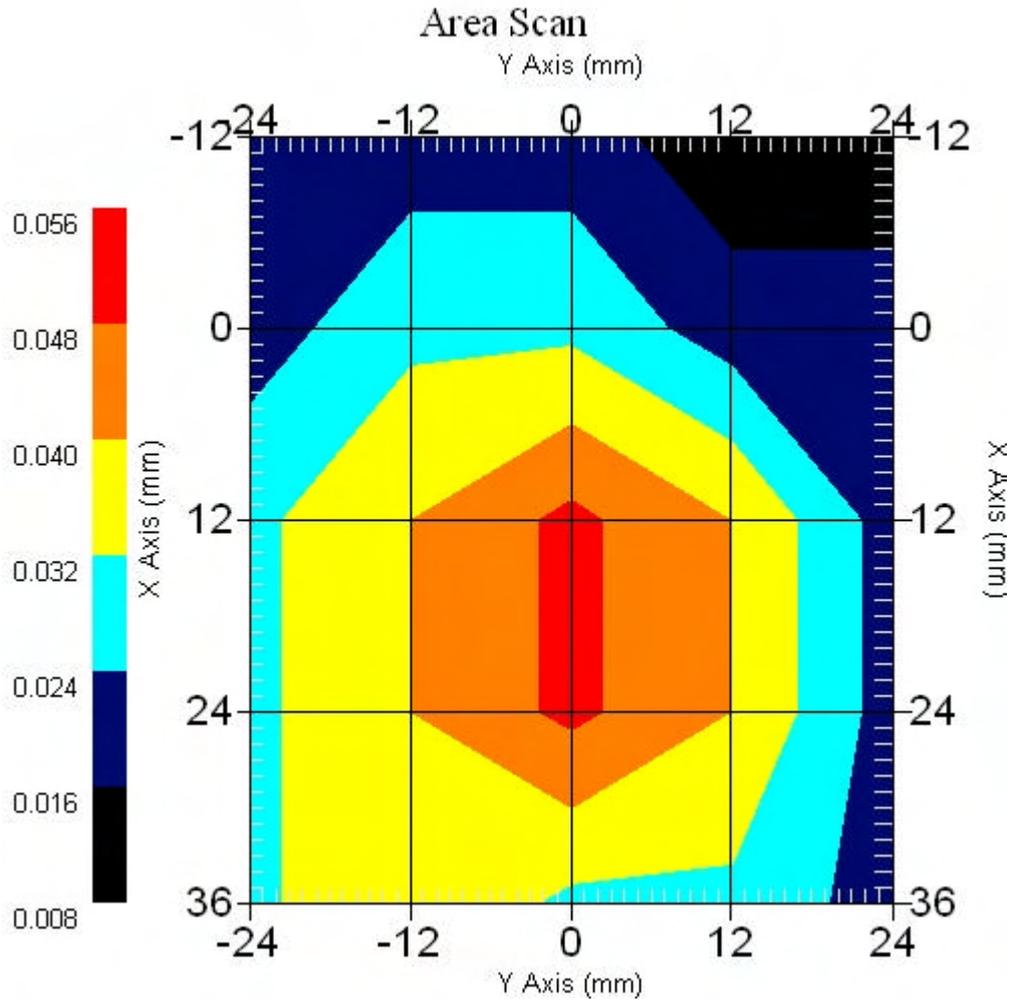
Measurement Data

Crest Factor : 8
Temperature : 20.20 °C
Ambient Temp. : 21.30 °C
Area Scan : 5x5x1 : Measurement x=12mm, y=12mm, z=4mm
Zoom Scan : 7x7x7 : Measurement x=5mm, y=5mm, z=5mm
Power Drift-Start : 0.036 W/kg
Power Drift-Finish: 0.035 W/kg
Power Drift (%) : -2.857

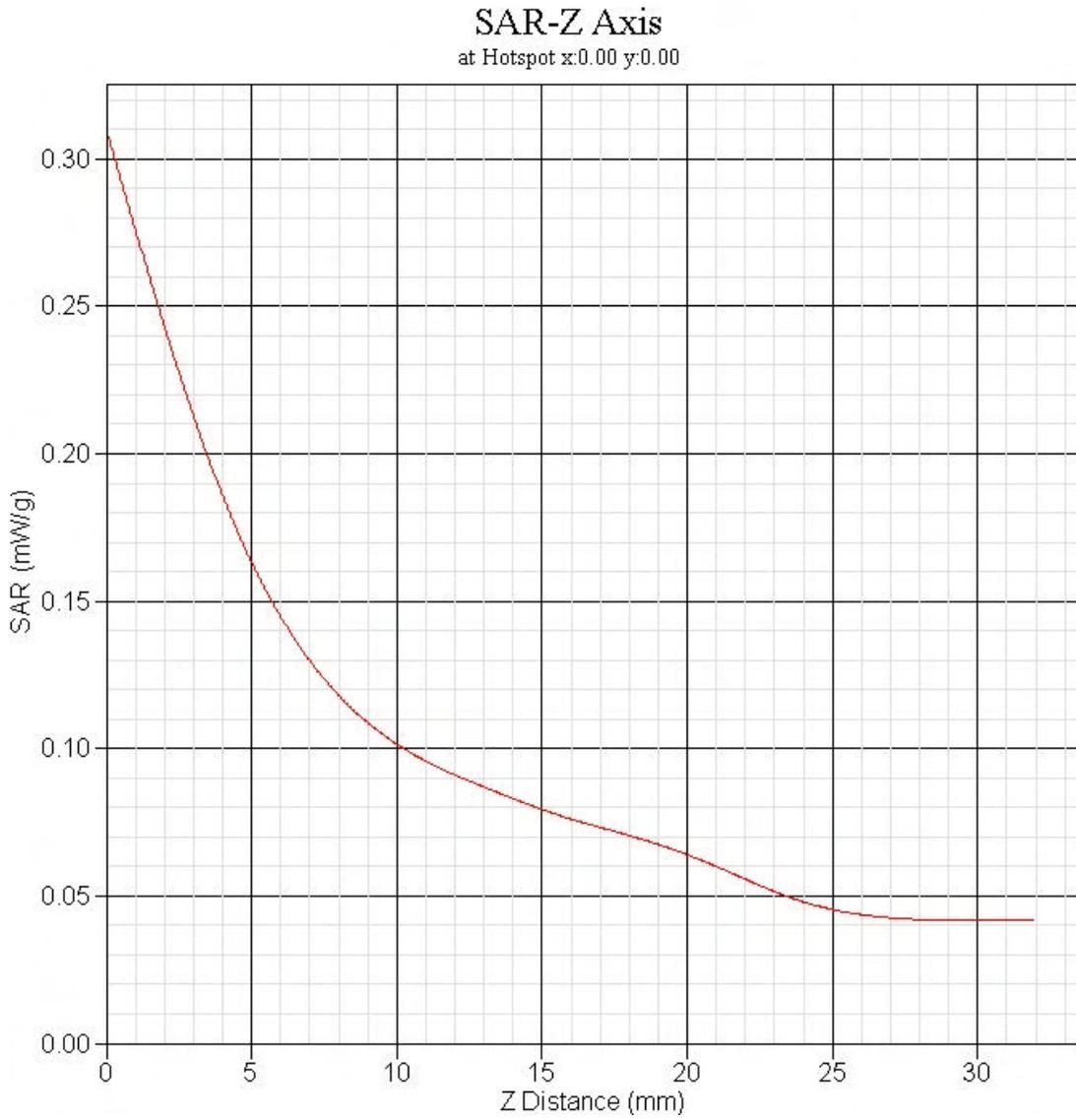
DUT Position : Touch
Channel : 810



1 gram SAR value : 0.046 W/kg
10 gram SAR value : 0.028 W/kg
Area Scan Peak SAR : 0.050 W/kg
Zoom Scan Peak SAR : 0.095 W/kg

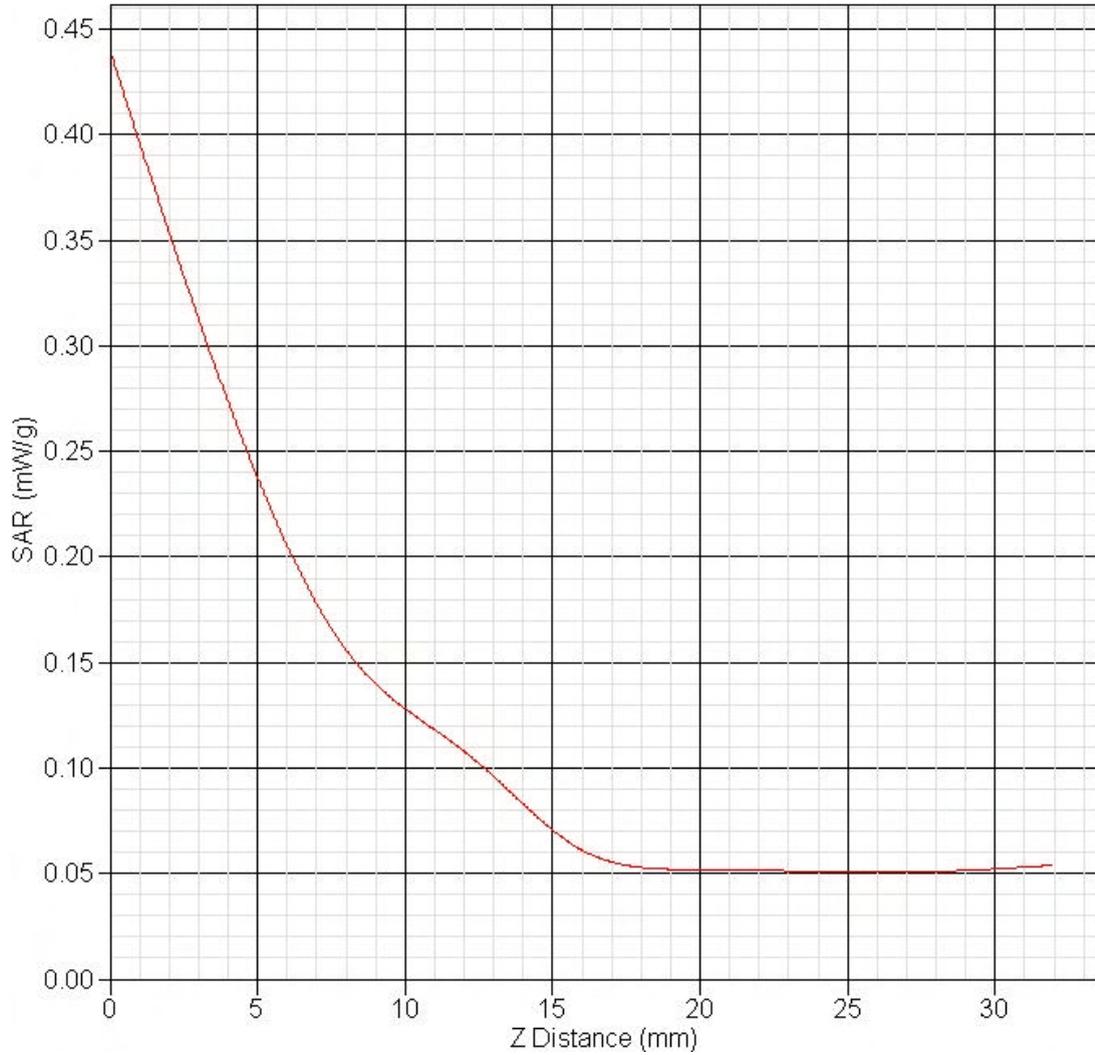


GSM 850 EUT Left Cheek Z-Axis plot
Channel: 128



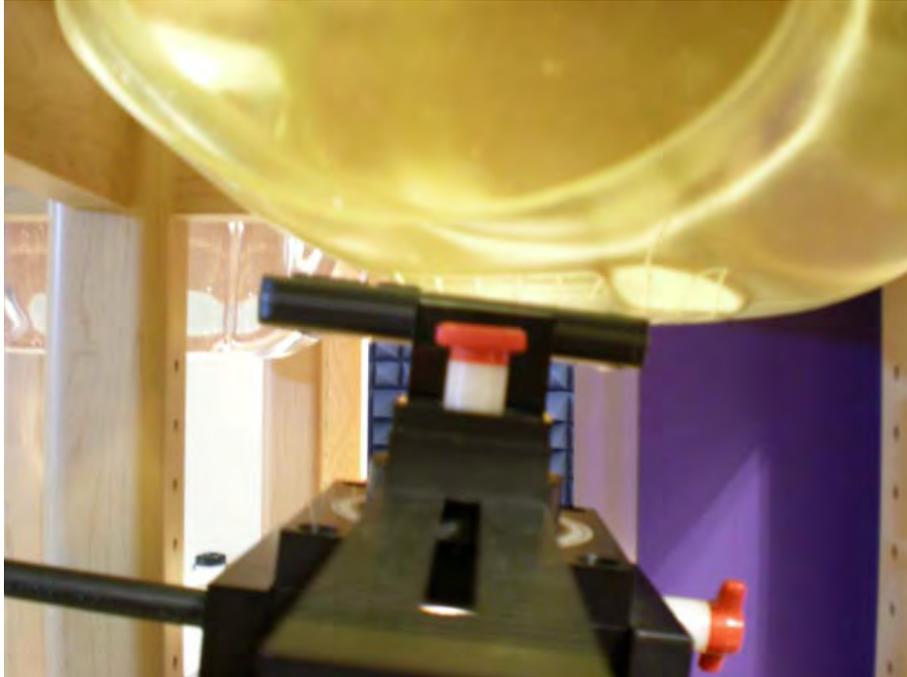
PCS 1900 EUT Right Cheek Z-Axis plot
Channel: 512

SAR-Z Axis
at Hotspot x:-15.94 y:11.99



Appendix C. Test Setup Photographs & EUT Photographs
Test Setup Photographs

Right Head (EUT Cheek)



Left Head (EUT Cheek)

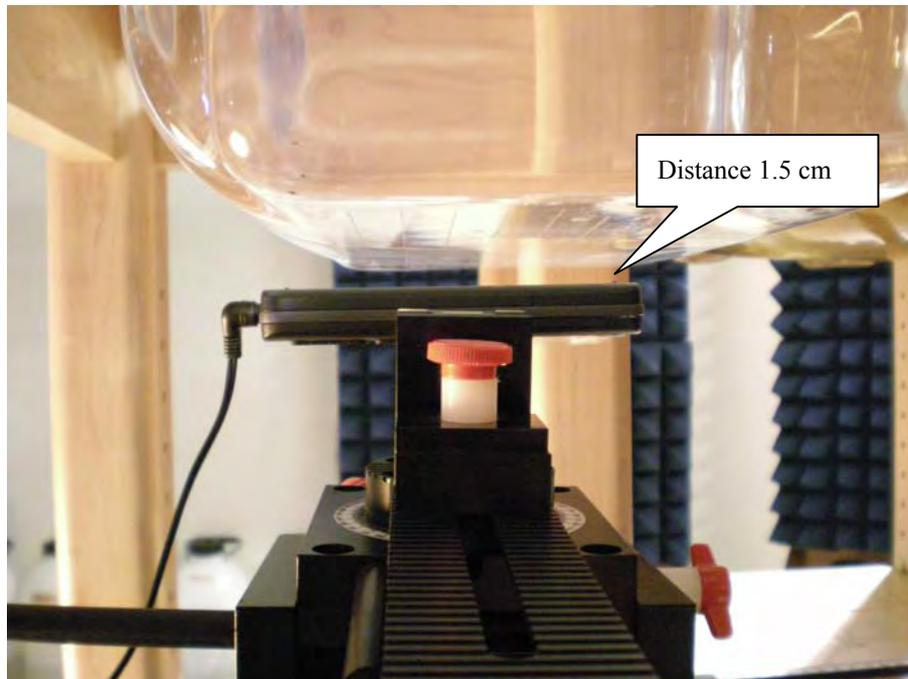


Right Head (EUT Tilted)



Left Head (EUT Tilted)



Body

Note: The positions used in the measurements were according to IEEE 1528-2003.

Test EUT Photographs



