

ALSAS-10U VER 2.3.6 APREL Laboratories

SAR Test Report

Report Date : 03-Mar-2009
Measurement Date : 03-Mar-2009

Product Data

Device Name : Mobile Phone
Type : Std Form Cell Phone
Model : A008
Frequency : 850.00 MHz
Max. Transmit Pwr : 2 W
Drift Time : 0 min(s)
Length : 119.6 mm
Width : 57.1 mm
Depth : 15.9 mm
Antenna Type : Internal

Phantom Data

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

Tissue Data

Type : HEAD
Serial No. : 322-H
Frequency : 835.00 MHz
Last Calib. Date : 03-Mar-2009
Temperature : 21.20 °C
Ambient Temp. : 22.10 °C
Humidity : 51.00 RH%
Epsilon : 42.96 F/m
Sigma : 0.93 S/m
Density : 1000.00 kg/cu. m

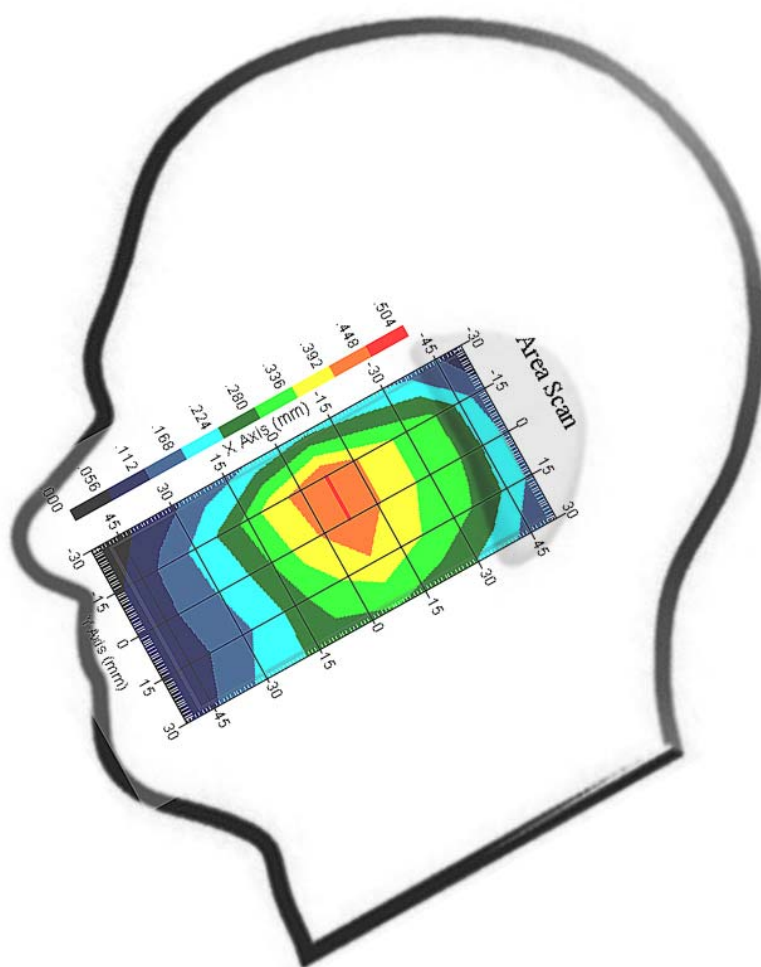
Probe Data

Name : Probe 265
Model : E020
Type : E-Field Triangle
Serial No. : 265
Last Calib. Date : 09-May-2008
Frequency : 900.00 MHz
Duty Cycle Factor: 8
Conversion Factor: 6.2
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

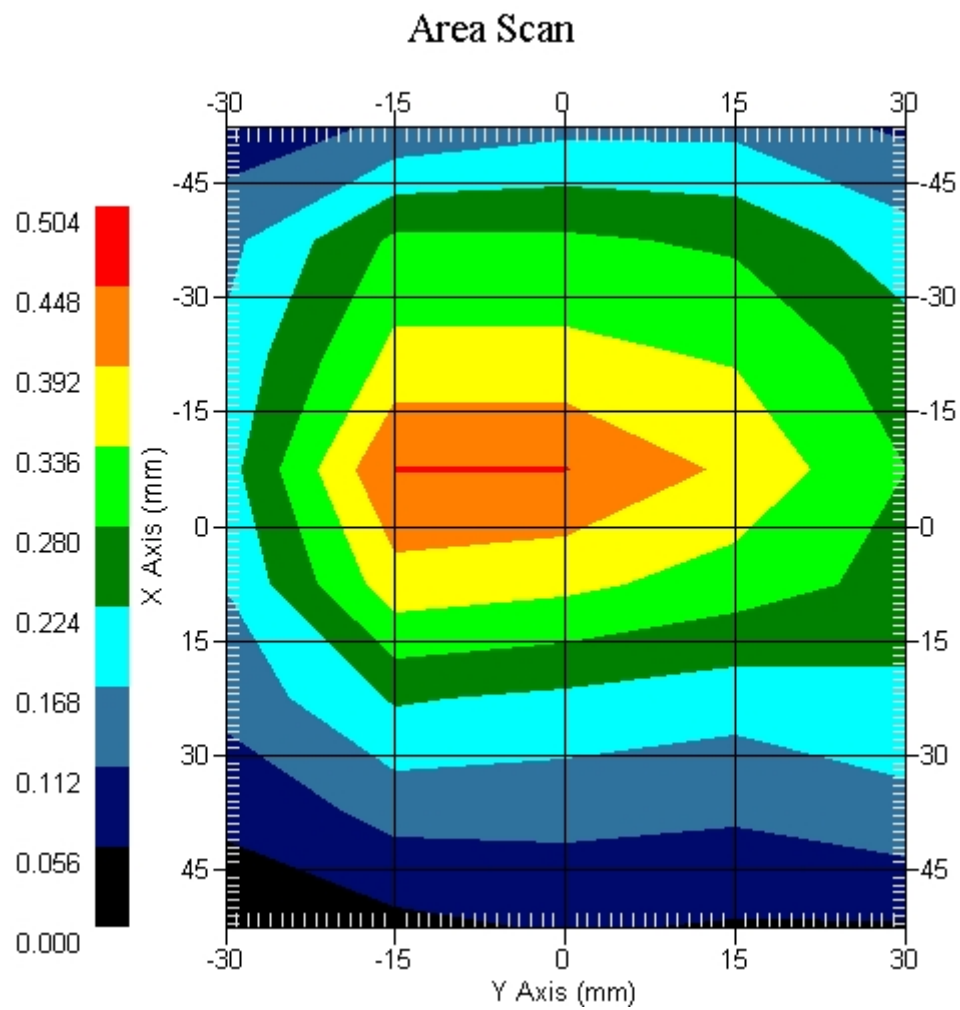
Measurement Data

Crest Factor : 8
 Tissue Temp. : 21.20 °C
 Ambient Temp. : 22.10 °C
 Area Scan : 8x5x1 : Measurement x=15mm, y=15mm, z=4mm
 Zoom Scan : 5x5x8 : Measurement x=8mm, y=8mm, z=4mm
 Power Drift-Start : 0.303 W/kg
 Power Drift-Finish: 0.297 W/kg
 Power Drift (%) : -1.980

DUT Position : Touch
 Channel : 128



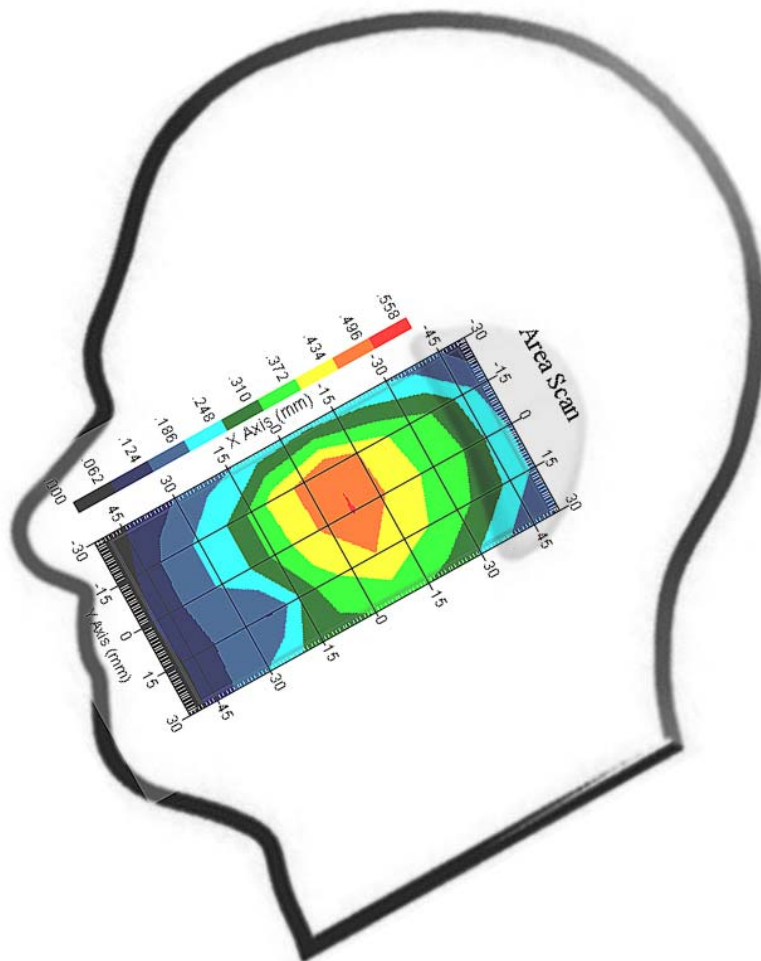
1 gram SAR value : 0.398 W/kg
 10 gram SAR value : 0.257 W/kg
 Area Scan Peak SAR : 0.450 W/kg
 Zoom Scan Peak SAR : 0.642 W/kg



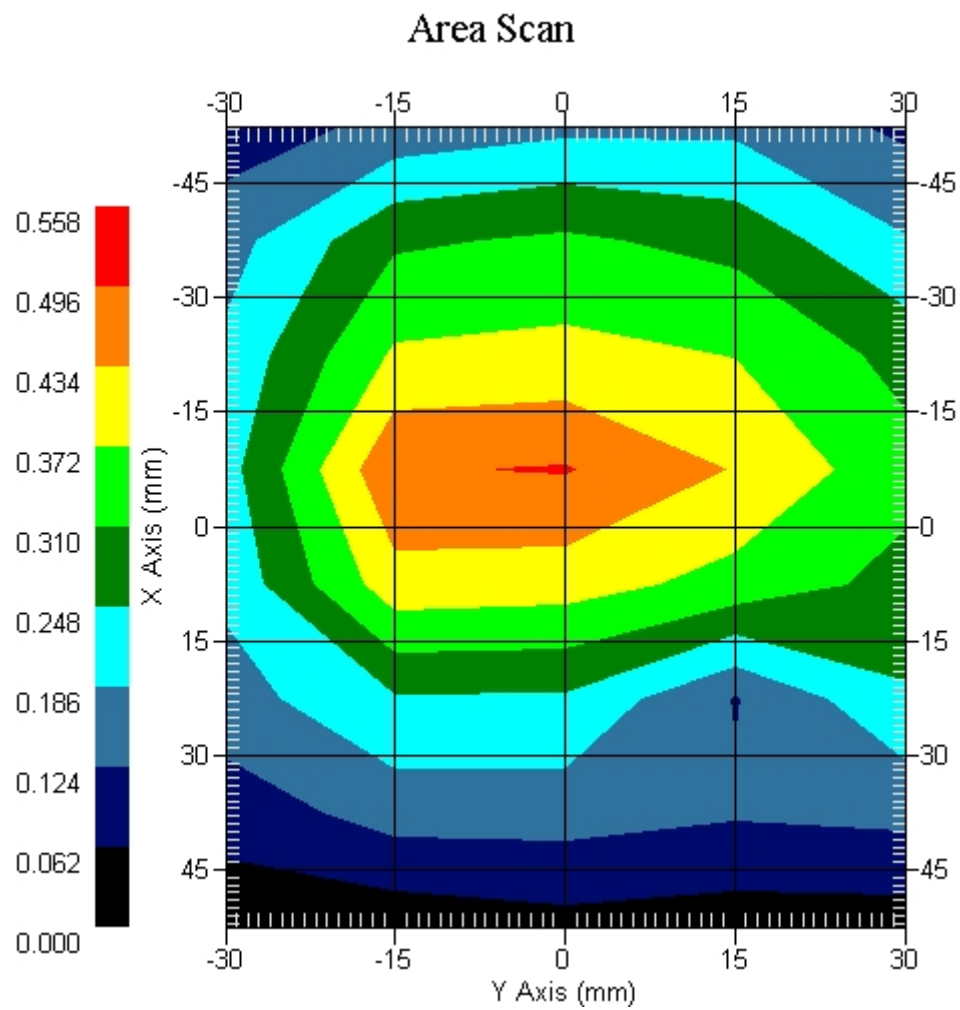
Measurement Data

Crest Factor : 8
 Tissue Temp. : 21.20 °C
 Ambient Temp. : 22.10 °C
 Area Scan : 8x5x1 : Measurement x=15mm, y=15mm, z=4mm
 Zoom Scan : 5x5x8 : Measurement x=8mm, y=8mm, z=4mm
 Power Drift-Start : 0.332 W/kg
 Power Drift-Finish: 0.333 W/kg
 Power Drift (%) : 0.182

DUT Position : Touch
 Channel : 189



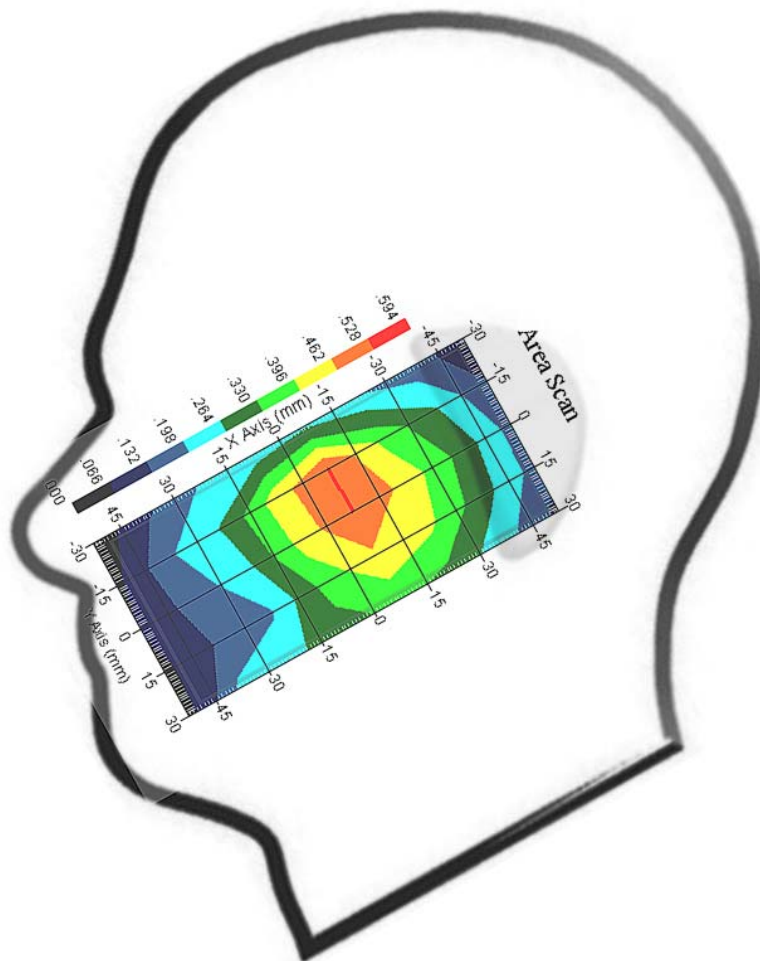
1 gram SAR value : 0.459 W/kg
 10 gram SAR value : 0.311 W/kg
 Area Scan Peak SAR : 0.500 W/kg
 Zoom Scan Peak SAR : 0.693 W/kg



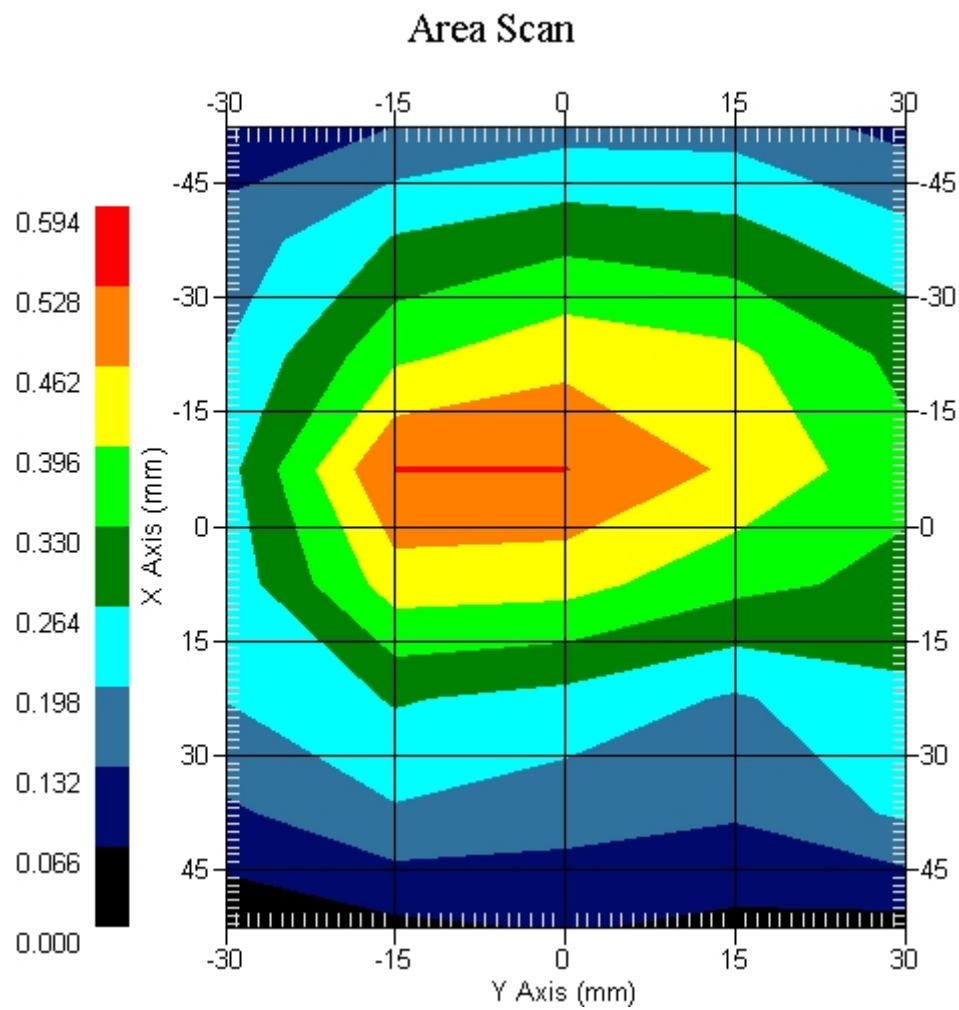
Measurement Data

Crest Factor : 8
 Tissue Temp. : 21.20 °C
 Ambient Temp. : 22.10 °C
 Area Scan : 8x5x1 : Measurement x=15mm, y=15mm, z=4mm
 Zoom Scan : 5x5x8 : Measurement x=8mm, y=8mm, z=4mm
 Power Drift-Start : 0.329 W/kg
 Power Drift-Finish: 0.330 W/kg
 Power Drift (%) : -1.586

DUT Position : 15° Tilt
 Channel : 251



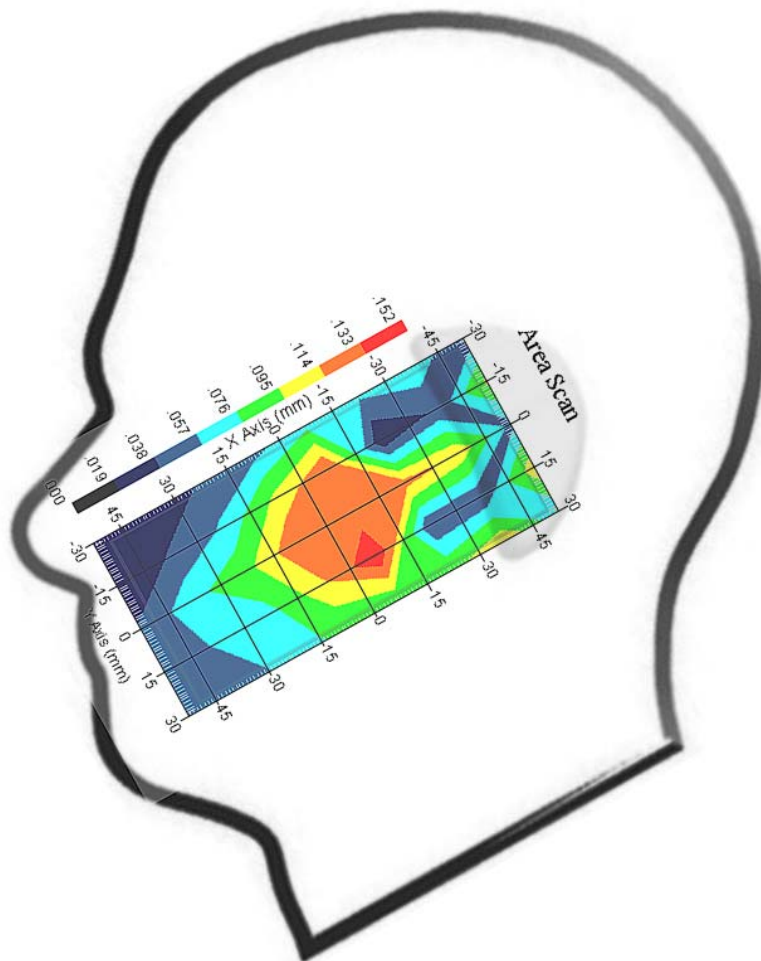
1 gram SAR value : 0.472 W/kg
 10 gram SAR value : 0.332 W/kg
 Area Scan Peak SAR : 0.530 W/kg
 Zoom Scan Peak SAR : 0.815 W/kg



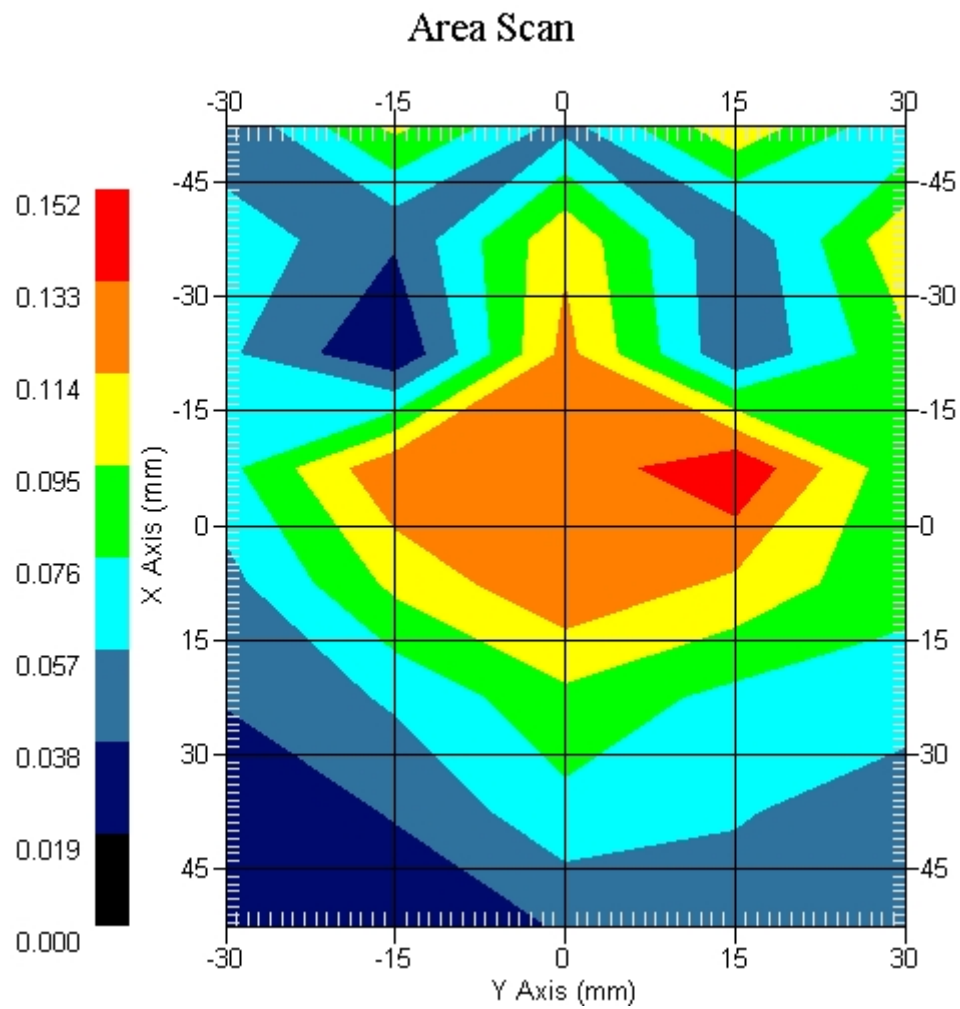
Measurement Data

Crest Factor : 8
 Tissue Temp. : 21.20 °C
 Ambient Temp. : 22.10 °C
 Area Scan : 8x5x1 : Measurement x=15mm, y=15mm, z=4mm
 Zoom Scan : 5x5x8 : Measurement x=8mm, y=8mm, z=4mm
 Power Drift-Start : 0.168 W/kg
 Power Drift-Finish: 0.168 W/kg
 Power Drift (%) : -0.665

DUT Position : 15° Tilt
 Channel : 128



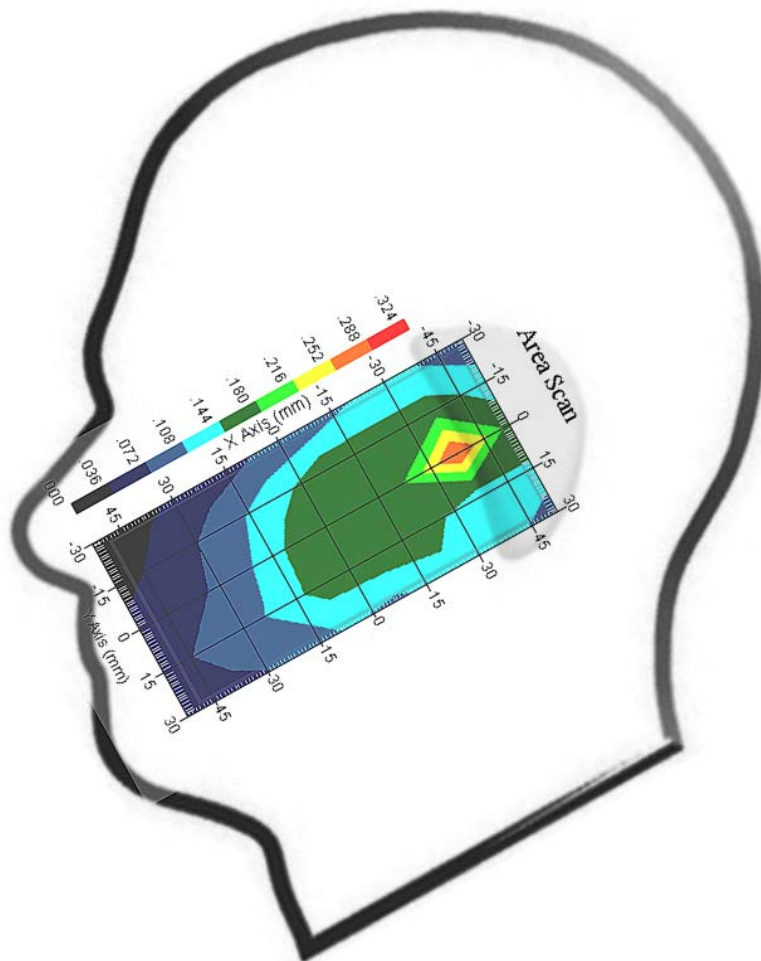
1 gram SAR value : 0.121 W/kg
 10 gram SAR value : 0.085 W/kg
 Area Scan Peak SAR : 0.150 W/kg
 Zoom Scan Peak SAR : 0.210 W/kg



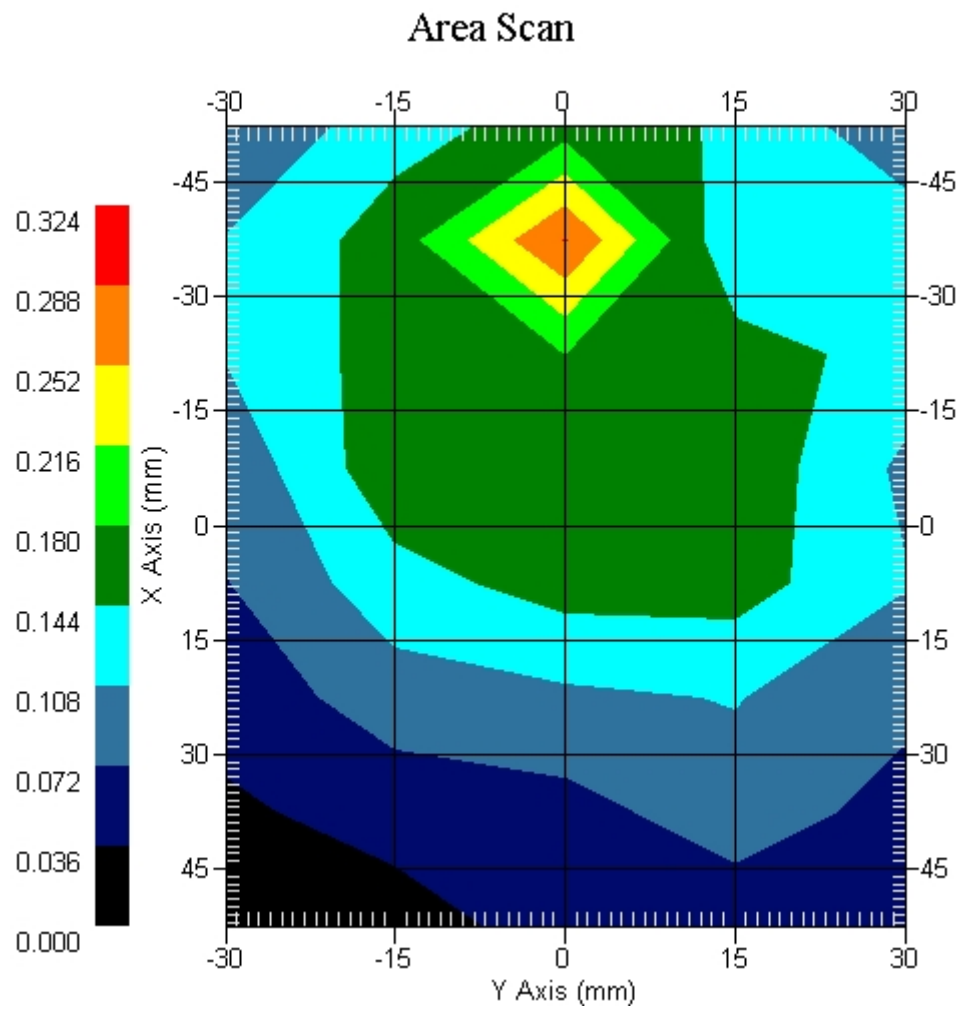
Measurement Data

Crest Factor : 8
 Tissue Temp. : 21.20 °C
 Ambient Temp. : 22.10 °C
 Area Scan : 8x5x1 : Measurement x=15mm, y=15mm, z=4mm
 Zoom Scan : 5x5x8 : Measurement x=8mm, y=8mm, z=4mm
 Power Drift-Start : 0.199 W/kg
 Power Drift-Finish: 0.201 W/kg
 Power Drift (%) : 1.021

DUT Position : 15° Tilt
 Channel : 189



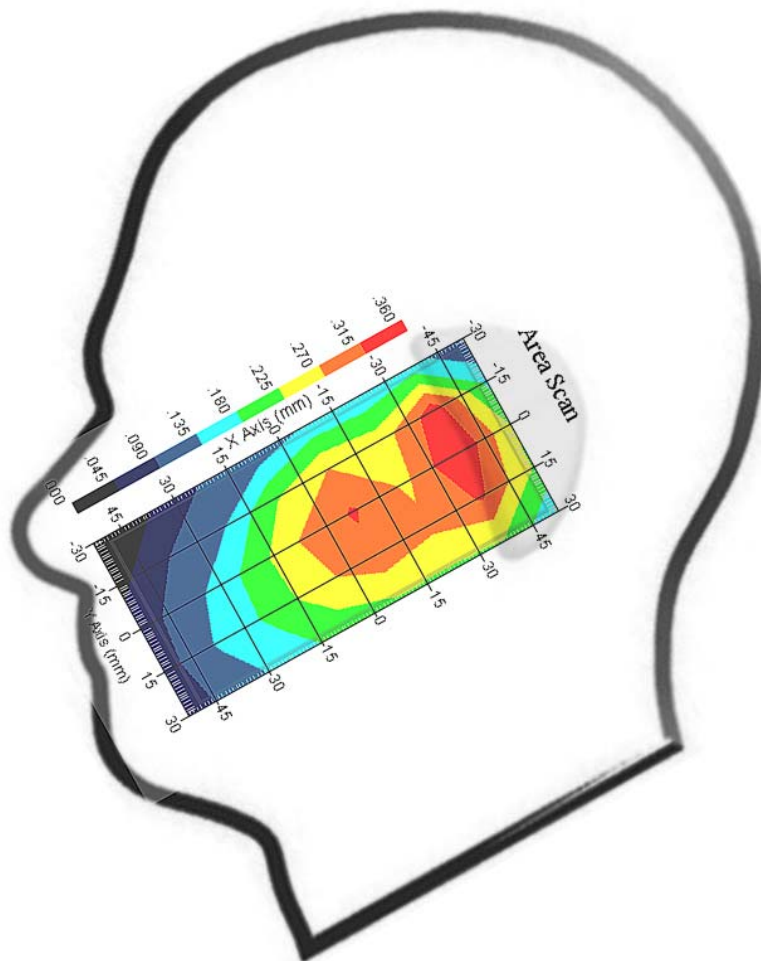
1 gram SAR value : 0.225 W/kg
 10 gram SAR value : 0.120 W/kg
 Area Scan Peak SAR : 0.290 W/kg
 Zoom Scan Peak SAR : 0.480 W/kg



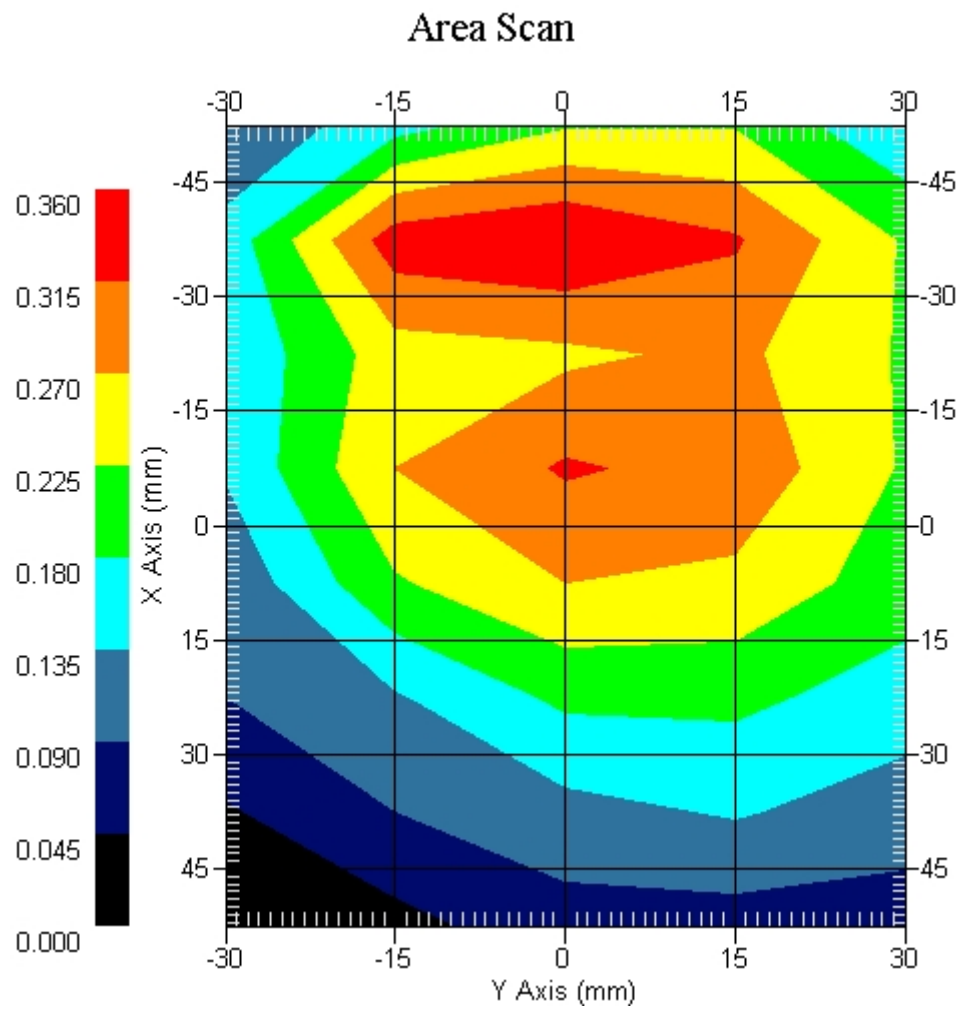
Measurement Data

Crest Factor : 8
 Tissue Temp. : 21.20 °C
 Ambient Temp. : 22.10 °C
 Area Scan : 8x5x1 : Measurement x=15mm, y=15mm, z=4mm
 Zoom Scan : 5x5x8 : Measurement x=8mm, y=8mm, z=4mm
 Power Drift-Start : 0.304 W/kg
 Power Drift-Finish: 0.300 W/kg
 Power Drift (%) : -1.384

DUT Position : 15° Tilt
 Channel : 251



1 gram SAR value : 0.291 W/kg
 10 gram SAR value : 0.172 W/kg
 Area Scan Peak SAR : 0.360 W/kg
 Zoom Scan Peak SAR : 0.550 W/kg



ALSAS-10U VER 2.3.6 APREL Laboratories

SAR Test Report

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Measurement Date : 03-Mar-2009

Product Data

Device Name : Mobile Phone
Type : Std Form Cell Phone
Model : A008
Frequency : 850.00 MHz
Max. Transmit Pwr : 2 W
Drift Time : 0 min(s)
Length : 119.6 mm
Width : 57.1 mm
Depth : 15.9 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 : 03-Mar-2009
Temperature : 21.20 °C
Ambient Temp. : 22.10 °C
Humidity : 51.00 RH%
Epsilon : 56.24 F/m
Sigma : 0.98 S/m
Density : 1000.00 kg/cu. m

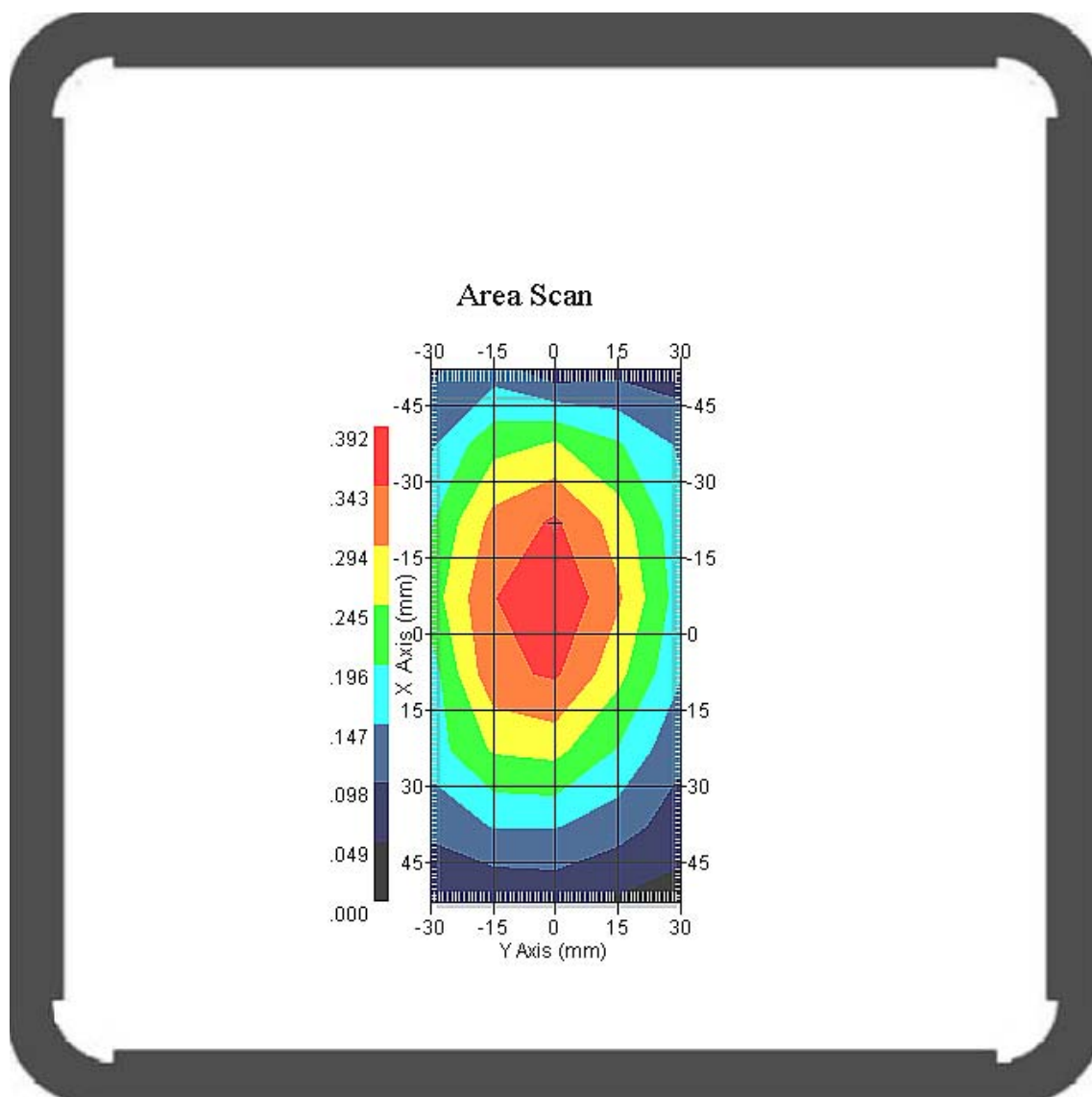
Probe Data

Name : Probe 265
Model : E020
Type : E-Field Triangle
Serial No. : 265
Last Calib. Date : 09-May-2008
Frequency : 835.00 MHz
Duty Cycle Factor: 8
Conversion Factor: 6.6
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

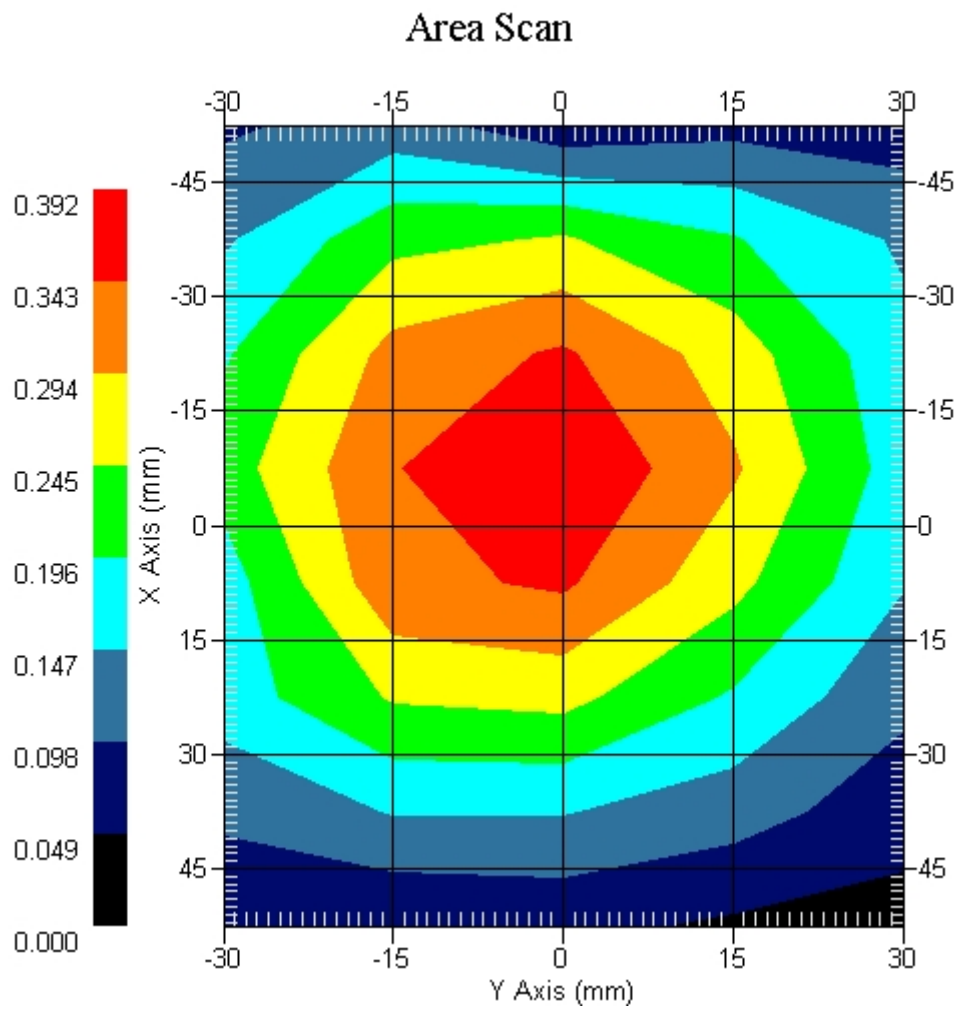
Measurement Data

Crest Factor : 8
 Tissue Temp. : 21.20 °C
 Ambient Temp. : 22.10 °C
 Area Scan : 8x5x1 : Measurement x=15mm, y=15mm, z=4mm
 Zoom Scan : 5x5x8 : Measurement x=8mm, y=8mm, z=4mm
 Power Drift-Start : 0.341 W/kg
 Power Drift-Finish: 0.339 W/kg
 Power Drift (%) : -0.682

DUT Position : Touch
 Channel : 128



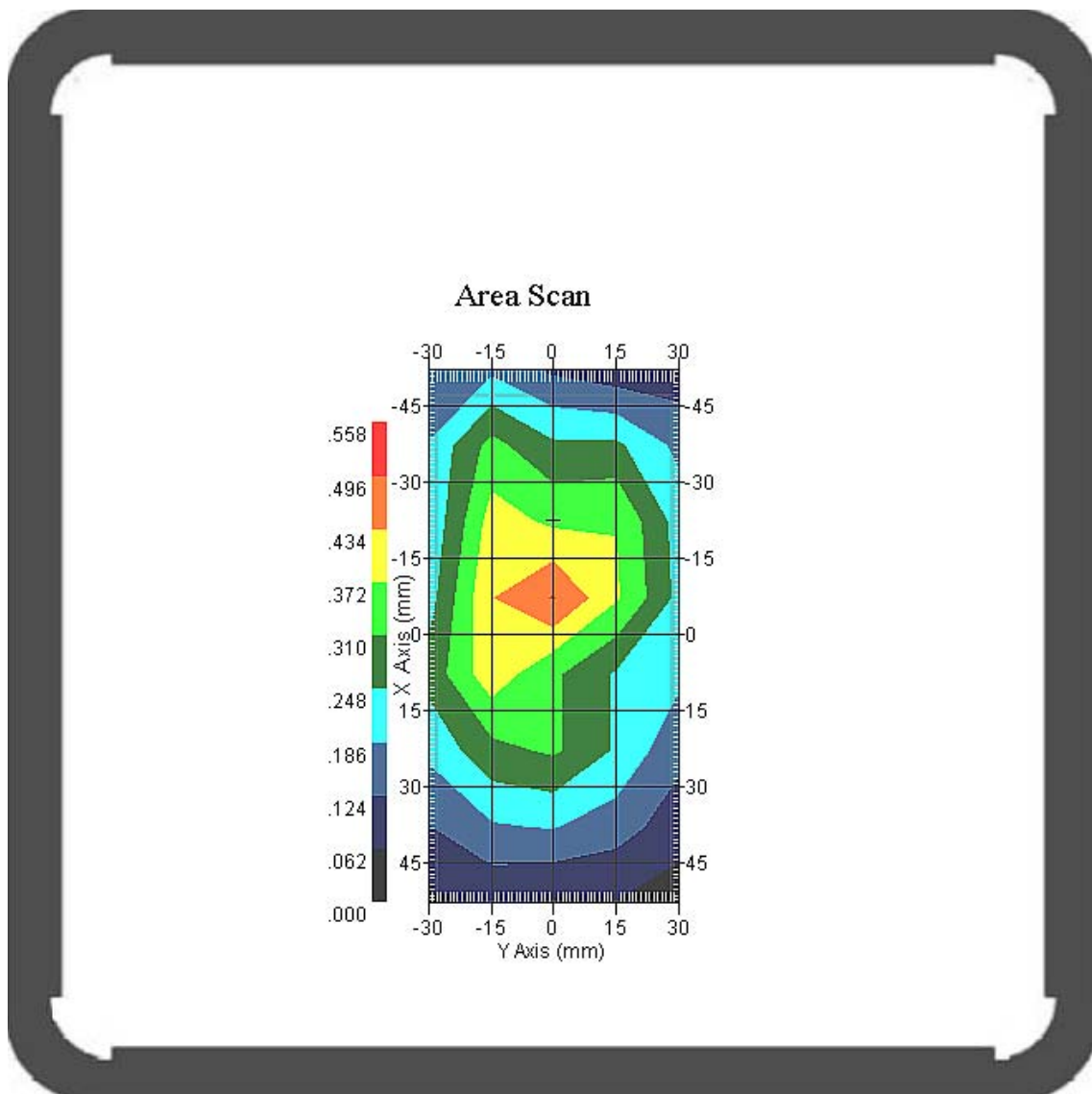
1 gram SAR value : 0.361 W/kg
 10 gram SAR value : 0.245 W/kg
 Area Scan Peak SAR : 0.390 W/kg
 Zoom Scan Peak SAR : 0.620 W/kg



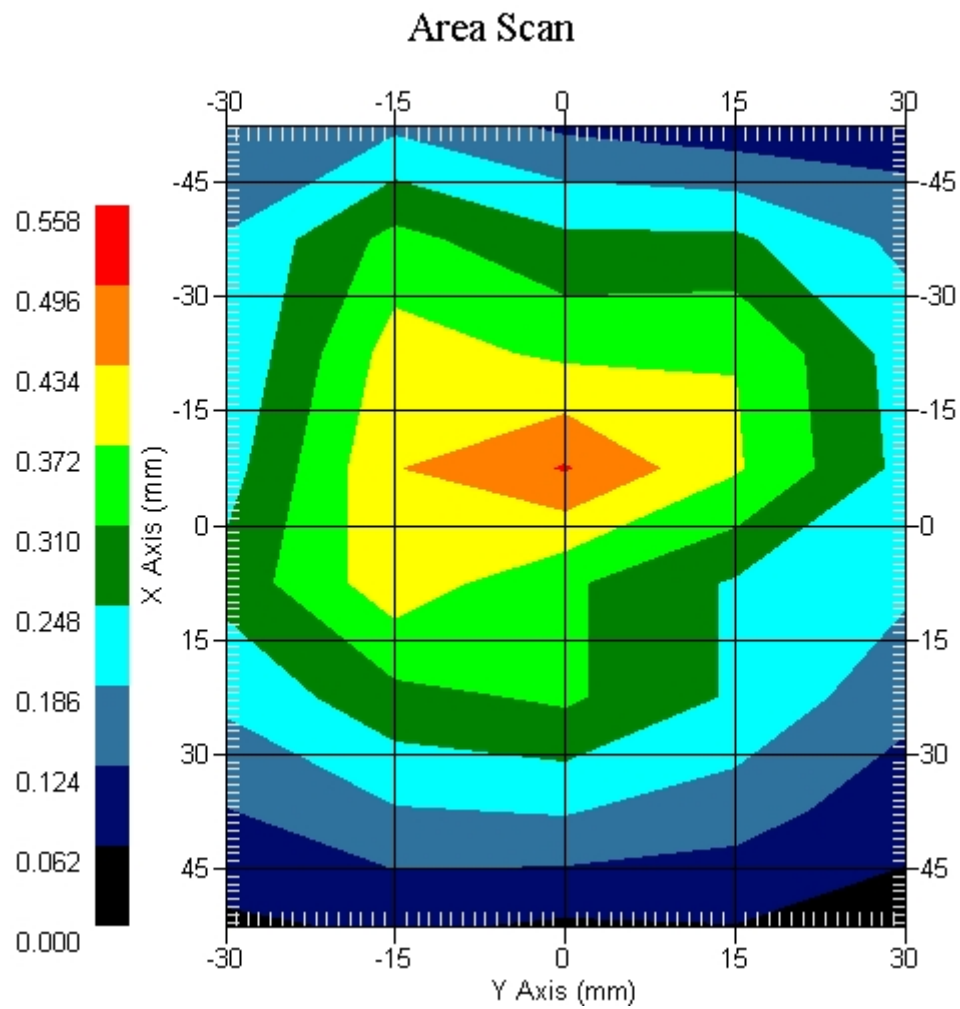
Measurement Data

Crest Factor : 8
 Tissue Temp. : 21.20 °C
 Ambient Temp. : 22.10 °C
 Area Scan : 8x5x1 : Measurement x=15mm, y=15mm, z=4mm
 Zoom Scan : 5x5x8 : Measurement x=8mm, y=8mm, z=4mm
 Power Drift-Start : 0.456 W/kg
 Power Drift-Finish: 0.438 W/kg
 Power Drift (%) : -3.913

DUT Position : Touch
 Channel : 189



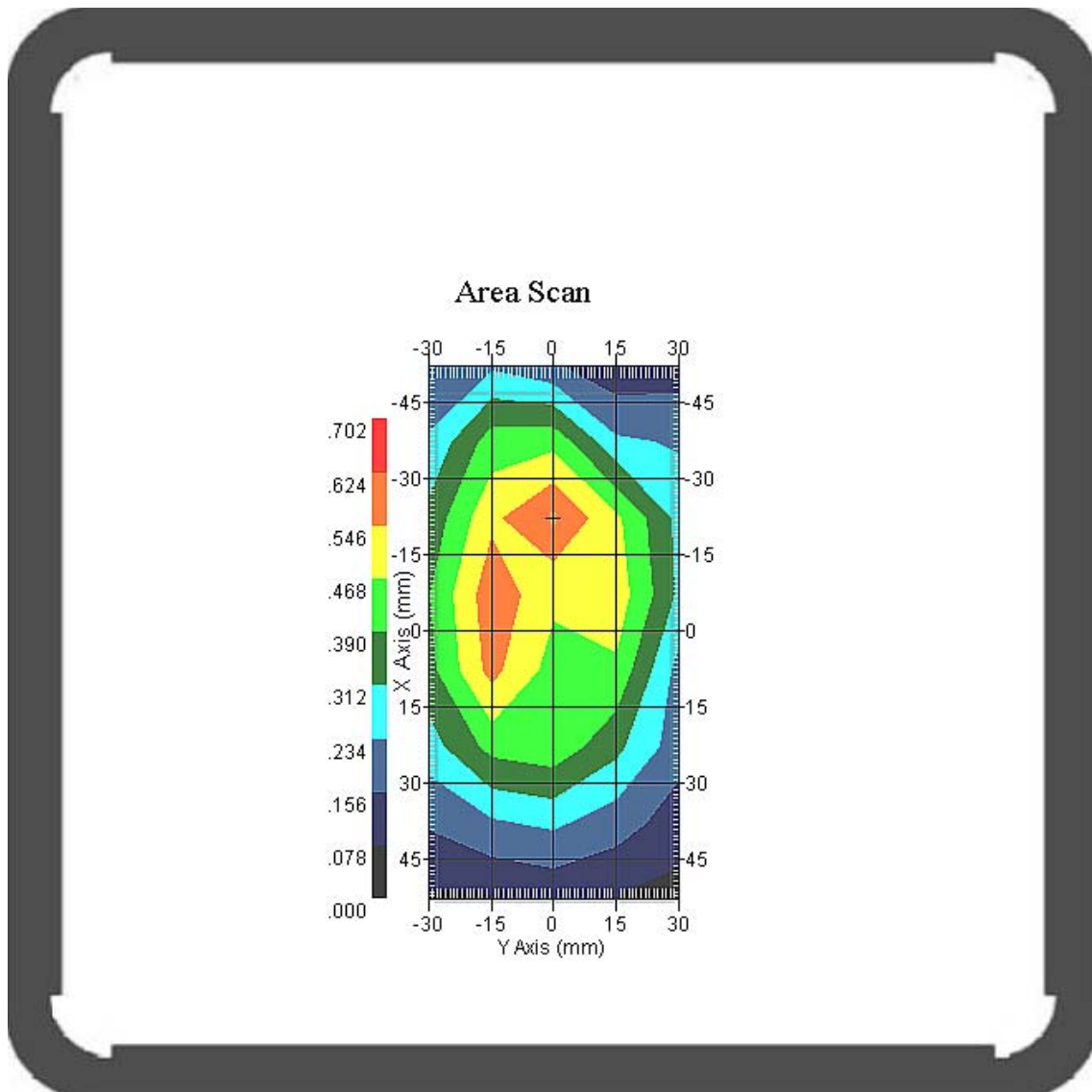
1 gram SAR value : 0.465 W/kg
 10 gram SAR value : 0.358 W/kg
 Area Scan Peak SAR : 0.500 W/kg
 Zoom Scan Peak SAR : 0.703 W/kg



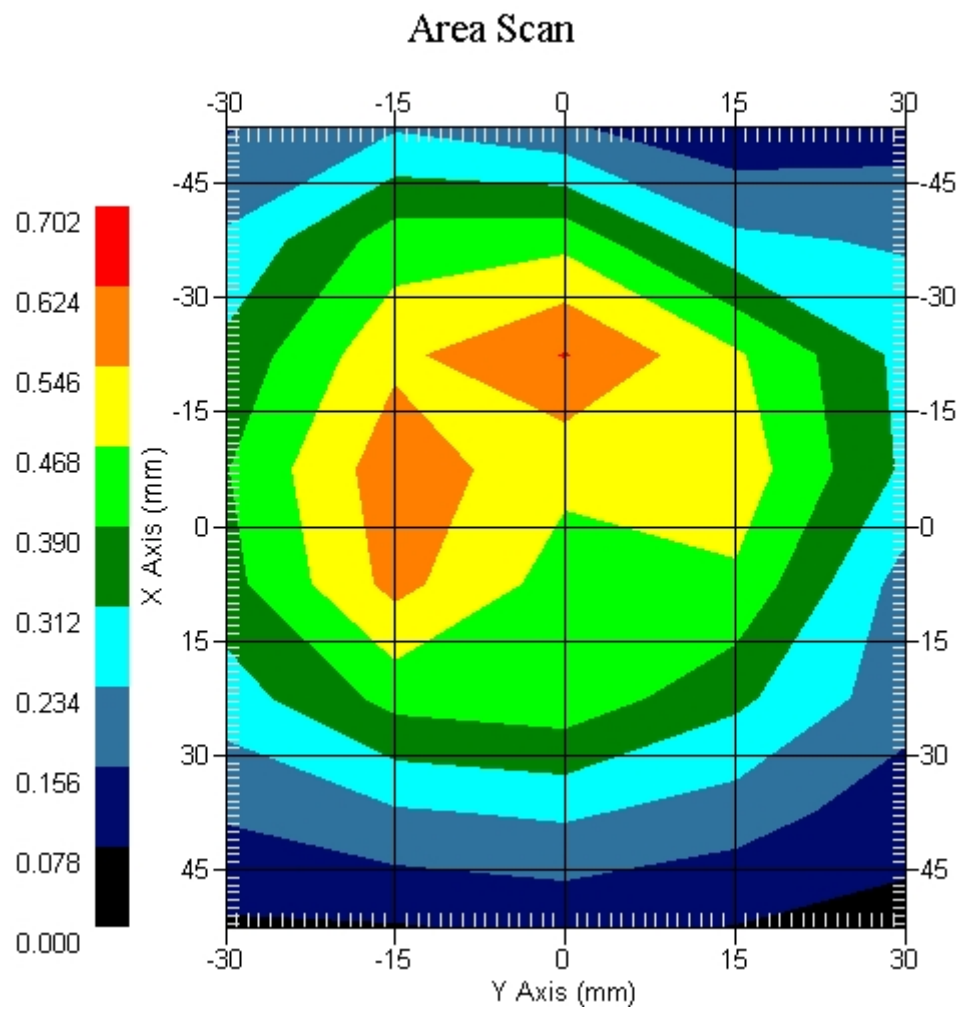
Measurement Data

Crest Factor : 8
 Tissue Temp. : 21.20 °C
 Ambient Temp. : 22.10 °C
 Area Scan : 8x5x1 : Measurement x=15mm, y=15mm, z=4mm
 Zoom Scan : 5x5x8 : Measurement x=8mm, y=8mm, z=4mm
 Power Drift-Start : 0.592 W/kg
 Power Drift-Finish: 0.598 W/kg
 Power Drift (%) : 1.062

DUT Position : Touch
 Channel : 251



1 gram SAR value : 0.597 W/kg
 10 gram SAR value : 0.472 W/kg
 Area Scan Peak SAR : 0.627 W/kg
 Zoom Scan Peak SAR : 0.810 W/kg



ALSAS-10U VER 2.3.6 APREL Laboratories

SAR Test Report-PCS 1900

Report Date : 04-Mar-2009
Measurement Date : 04-Mar-2009

Product Data

Device Name : Mobile Phone
Type : Std Form Cell Phone
Model : A008
Frequency : 1900.00 MHz
Max. Transmit Pwr : 1 W
Drift Time : 0 min(s)
Length : 119.6 mm
Width : 57.1 mm
Depth : 15.9 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 : 04-Mar-2009
Temperature : 21.30 °C
Ambient Temp. : 21.90 °C
Humidity : 51.00 RH%
Epsilon : 40.03 F/m
Sigma : 1.41 S/m
Density : 1000.00 kg/cu. m

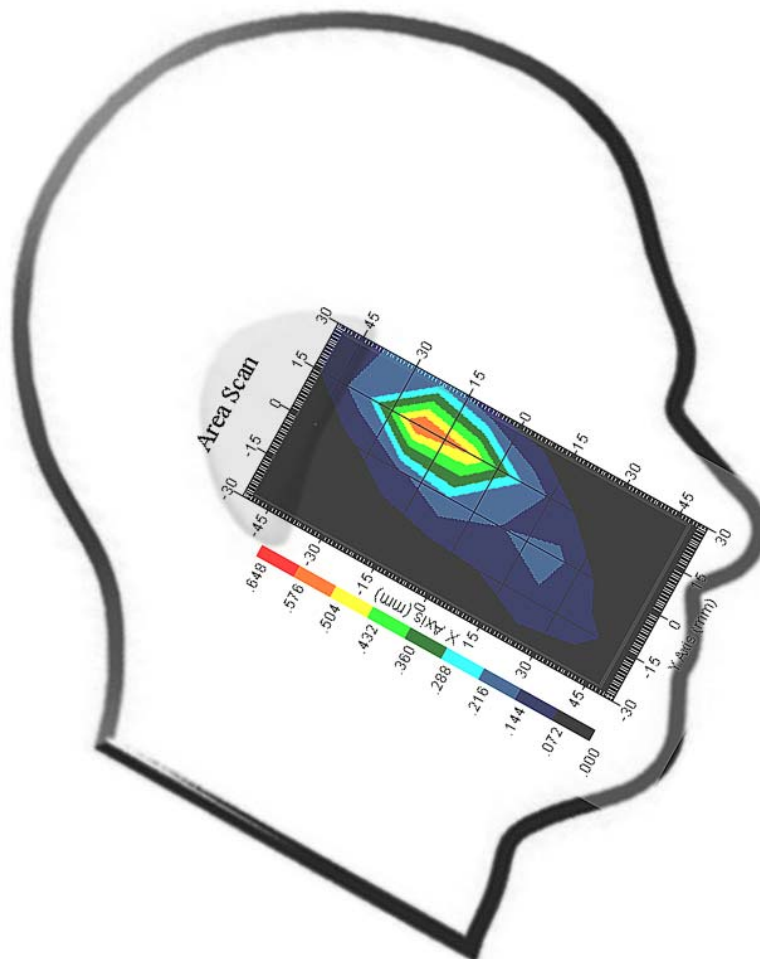
Probe Data

Name : Probe 265
Model : E020
Type : E-Field Triangle
Serial No. : 265
Last Calib. Date : 09-May-2008
Frequency : 1900.00 MHz
Duty Cycle Factor: 8
Conversion Factor: 5.1
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

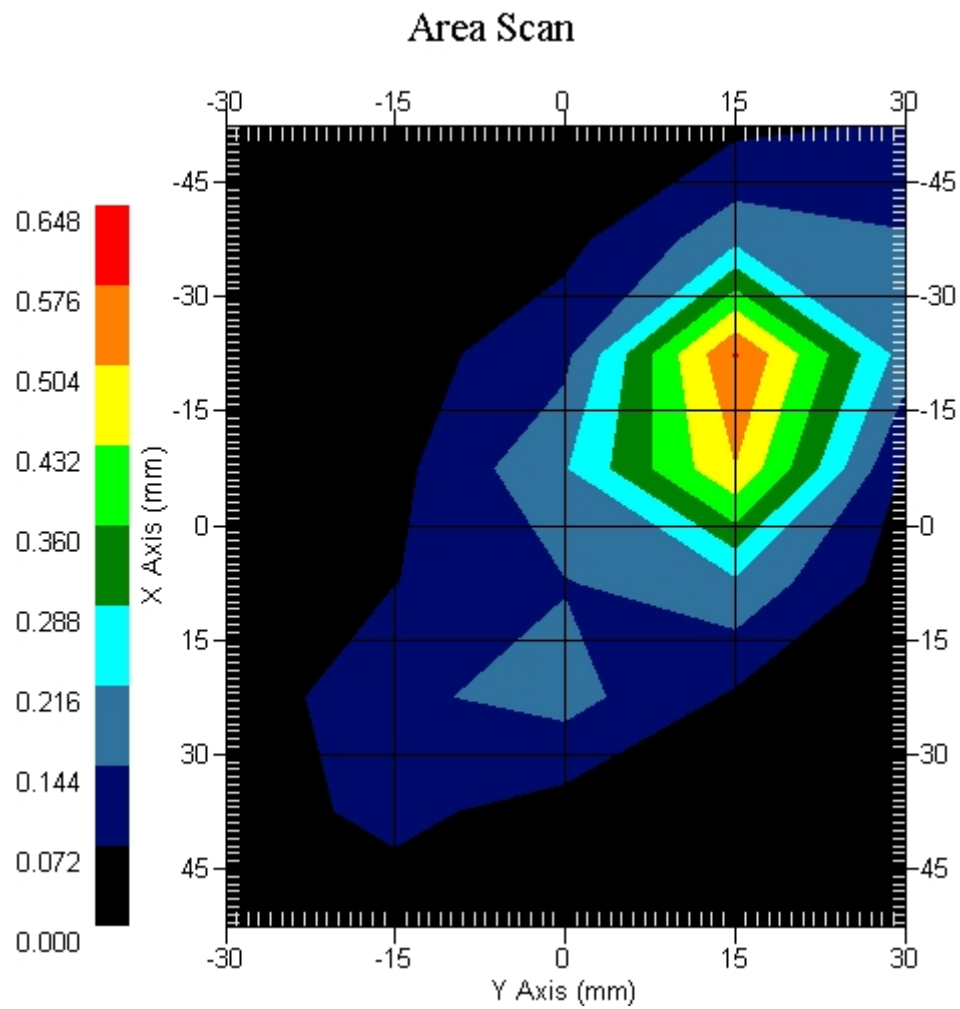
Measurement Data

Crest Factor : 8
 Tissue Temp. : 21.30 °C
 Ambient Temp. : 21.90 °C
 Area Scan : 8x5x1 : Measurement x=15mm, y=15mm, z=4mm
 Zoom Scan : 5x5x8 : Measurement x=8mm, y=8mm, z=4mm
 Power Drift-Start : 0.035 W/kg
 Power Drift-Finish: 0.035 W/kg
 Power Drift (%) : 0.496

DUT Position : Touch
 Channel : 512



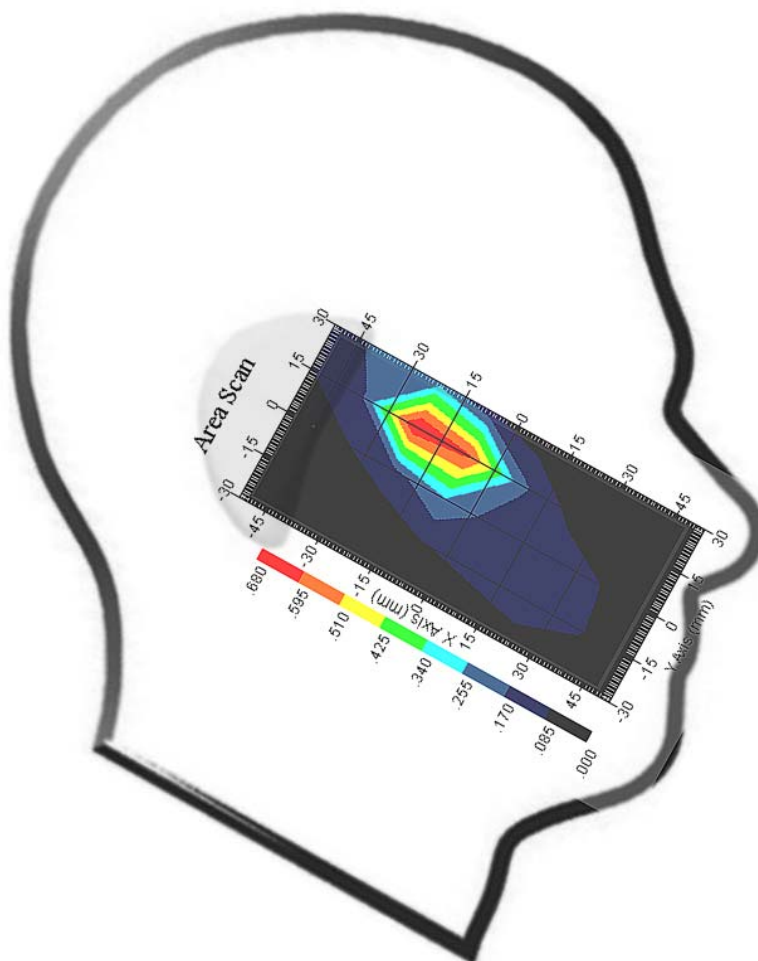
1 gram SAR value : 0.542 W/kg
 10 gram SAR value : 0.350 W/kg
 Area Scan Peak SAR : 0.580 W/kg
 Zoom Scan Peak SAR : 0.980 W/kg



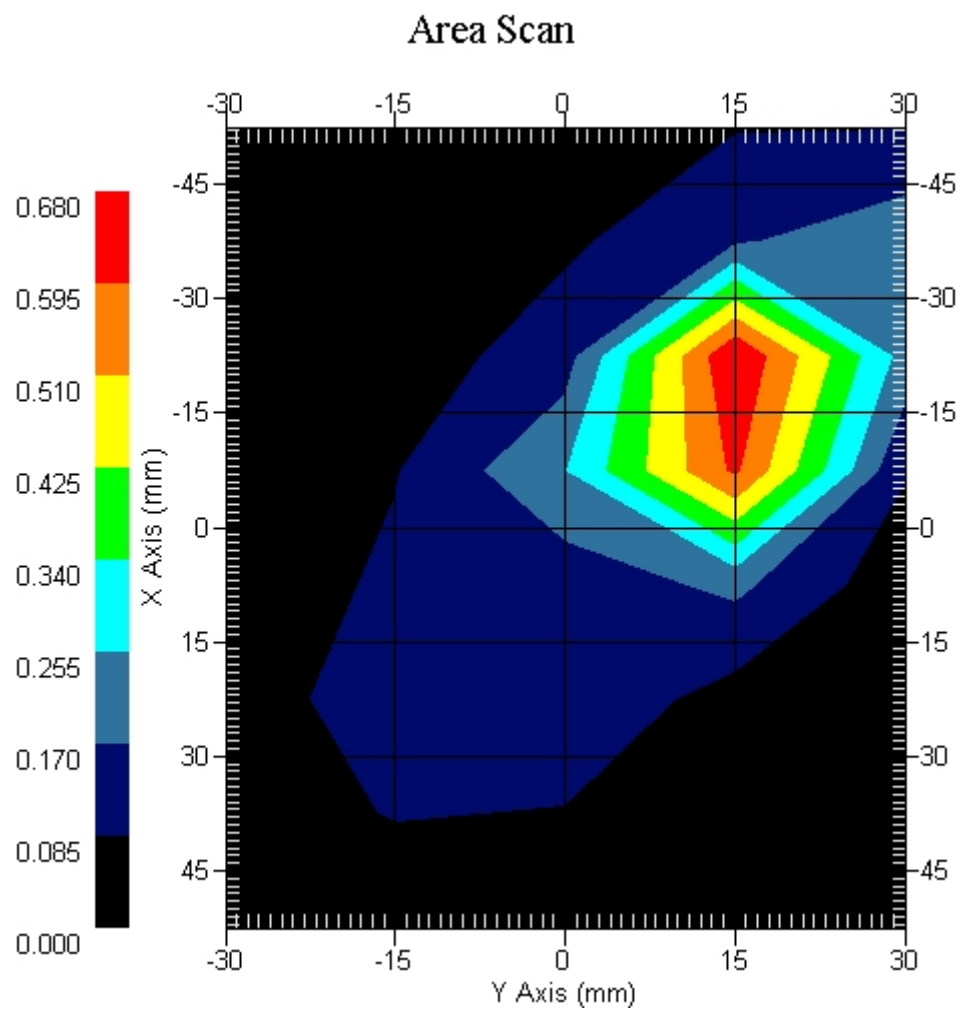
Measurement Data

Crest Factor : 8
 Tissue Temp. : 21.30 °C
 Ambient Temp. : 21.90 °C
 Area Scan : 8x5x1 : Measurement x=15mm, y=15mm, z=4mm
 Zoom Scan : 5x5x8 : Measurement x=8mm, y=8mm, z=4mm
 Power Drift-Start : 0.050 W/kg
 Power Drift-Finish: 0.050 W/kg
 Power Drift (%) : -0.741

DUT Position : Touch
 Channel : 698



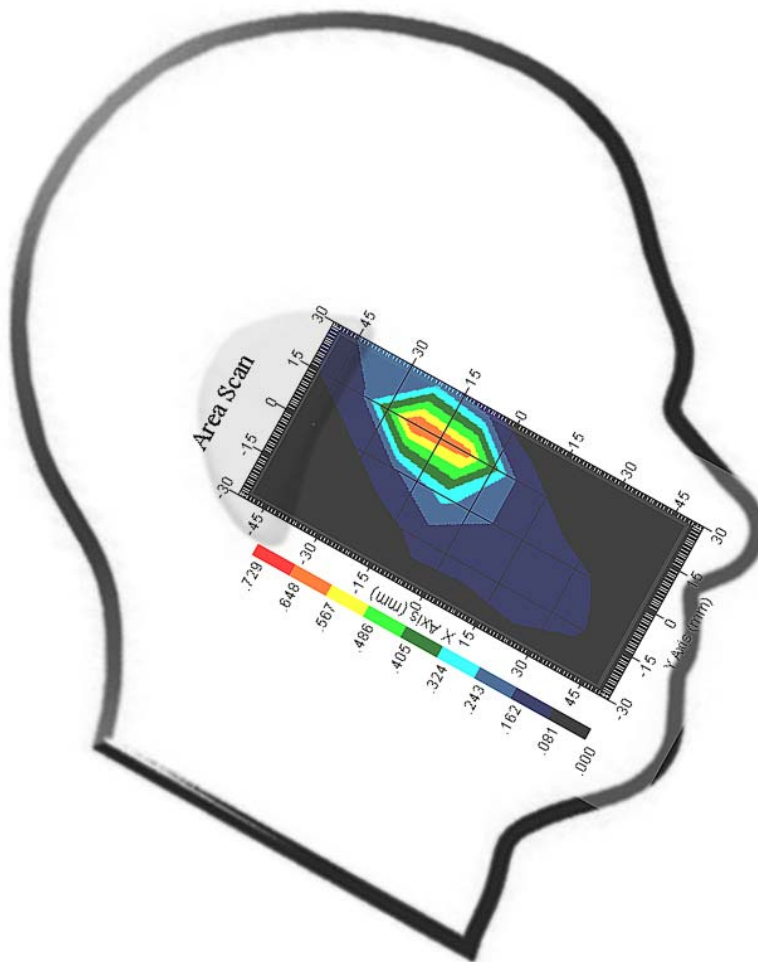
1 gram SAR value : 0.634 W/kg
 10 gram SAR value : 0.457 W/kg
 Area Scan Peak SAR : 0.680 W/kg
 Zoom Scan Peak SAR : 1.210 W/kg



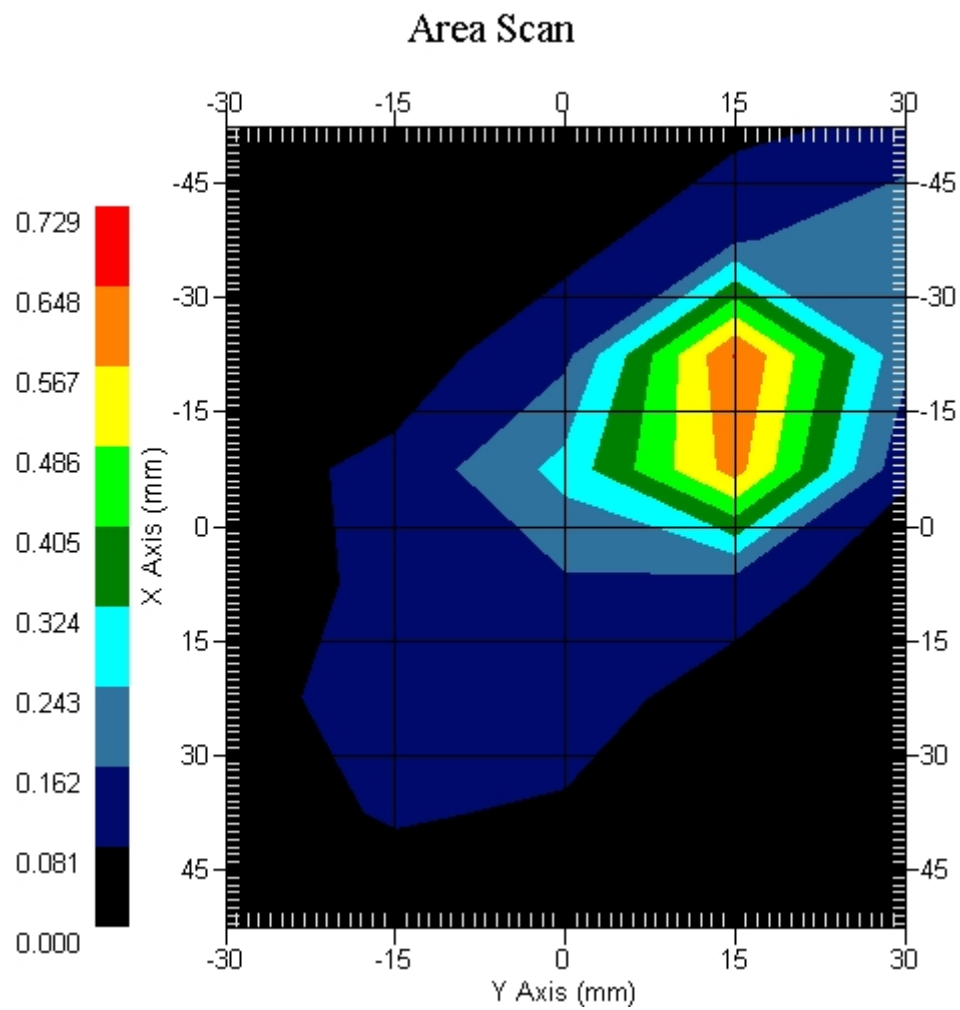
Measurement Data

Crest Factor : 8
 Tissue Temp. : 21.30 °C
 Ambient Temp. : 21.90 °C
 Area Scan : 8x5x1 : Measurement x=15mm, y=15mm, z=4mm
 Zoom Scan : 5x5x8 : Measurement x=8mm, y=8mm, z=4mm
 Power Drift-Start : 0.050 W/kg
 Power Drift-Finish: 0.050 W/kg
 Power Drift (%) : -0.692

DUT Position : Touch
 Channel : 512



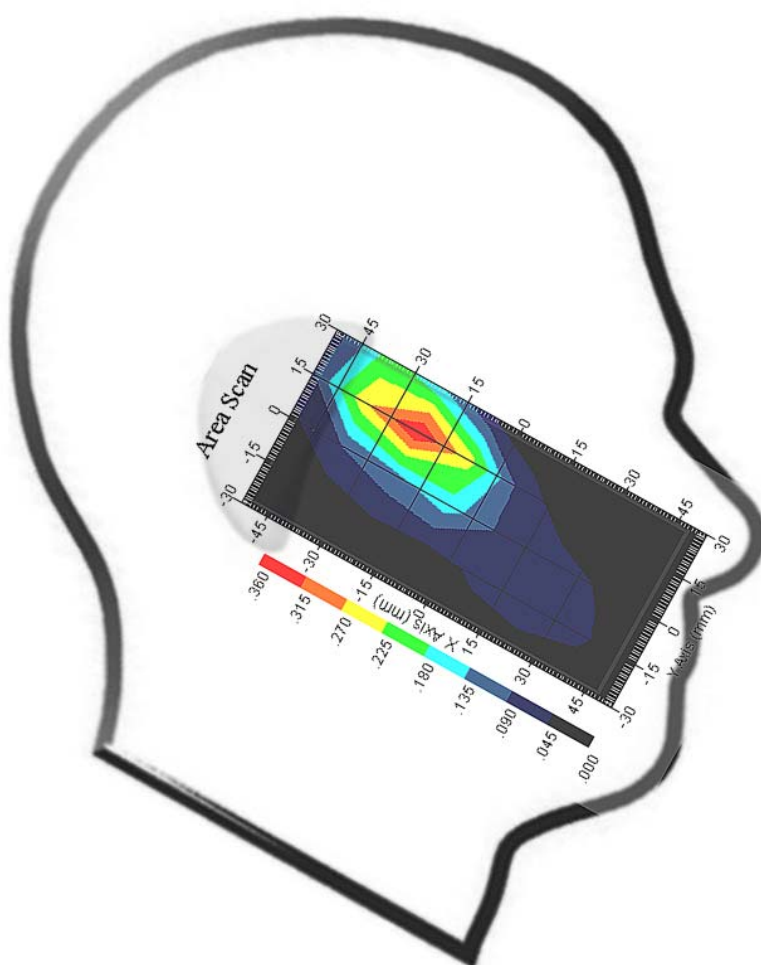
1 gram SAR value : 0.618 W/kg
 10 gram SAR value : 0.245 W/kg
 Area Scan Peak SAR : 0.650 W/kg
 Zoom Scan Peak SAR : 1.150 W/kg



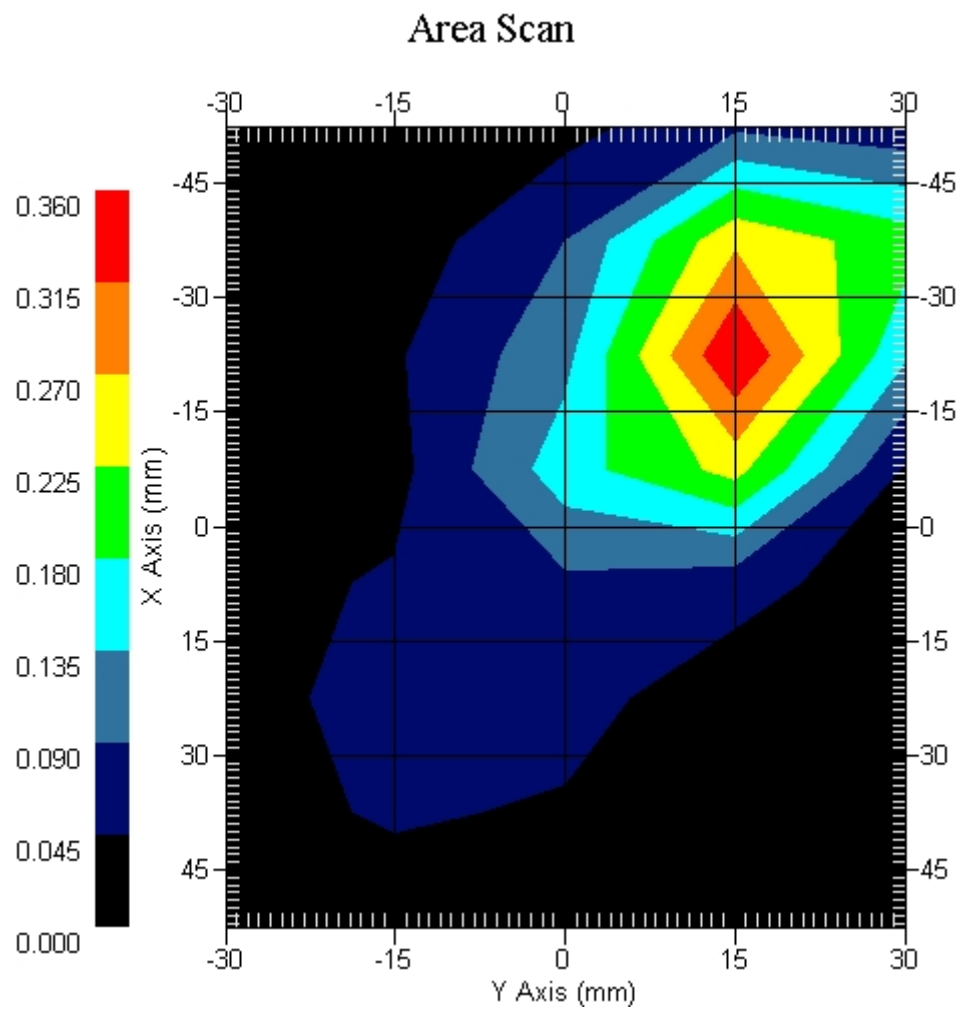
Measurement Data

Crest Factor : 8
 Tissue Temp. : 21.30 °C
 Ambient Temp. : 21.90 °C
 Area Scan : 8x5x1 : Measurement x=15mm, y=15mm, z=4mm
 Zoom Scan : 5x5x8 : Measurement x=8mm, y=8mm, z=4mm
 Power Drift-Start : 0.034 W/kg
 Power Drift-Finish: 0.033 W/kg
 Power Drift (%) : -0.704

DUT Position : 15° Tilt
 Channel : 512



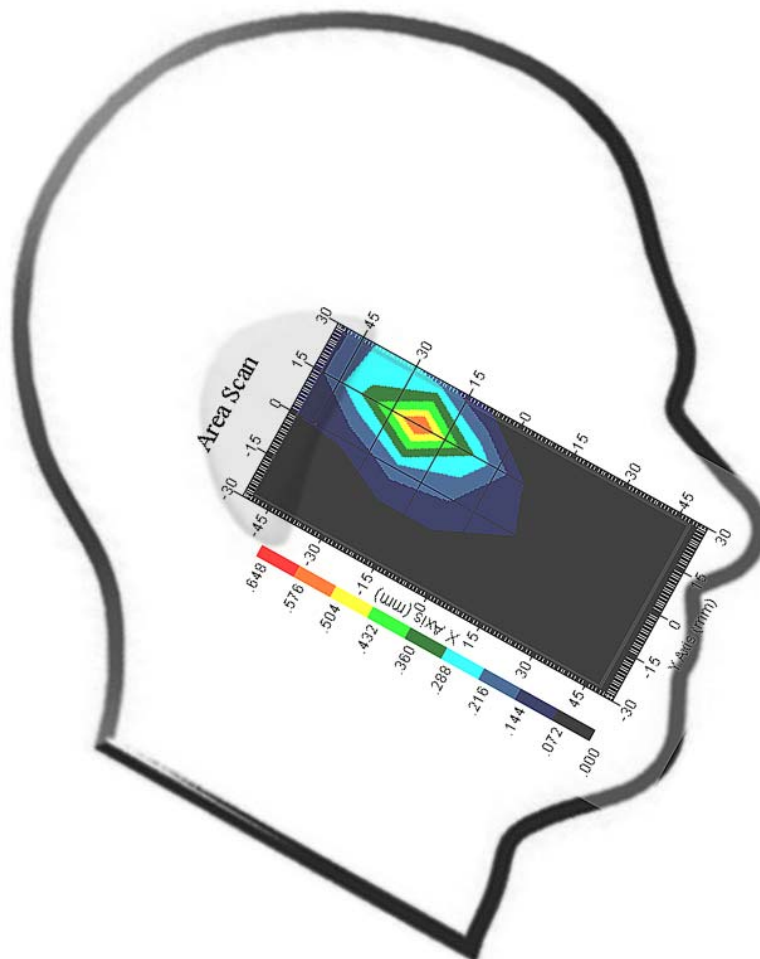
1 gram SAR value : 0.327 W/kg
 10 gram SAR value : 0.176 W/kg
 Area Scan Peak SAR : 0.360 W/kg
 Zoom Scan Peak SAR : 0.610 W/kg



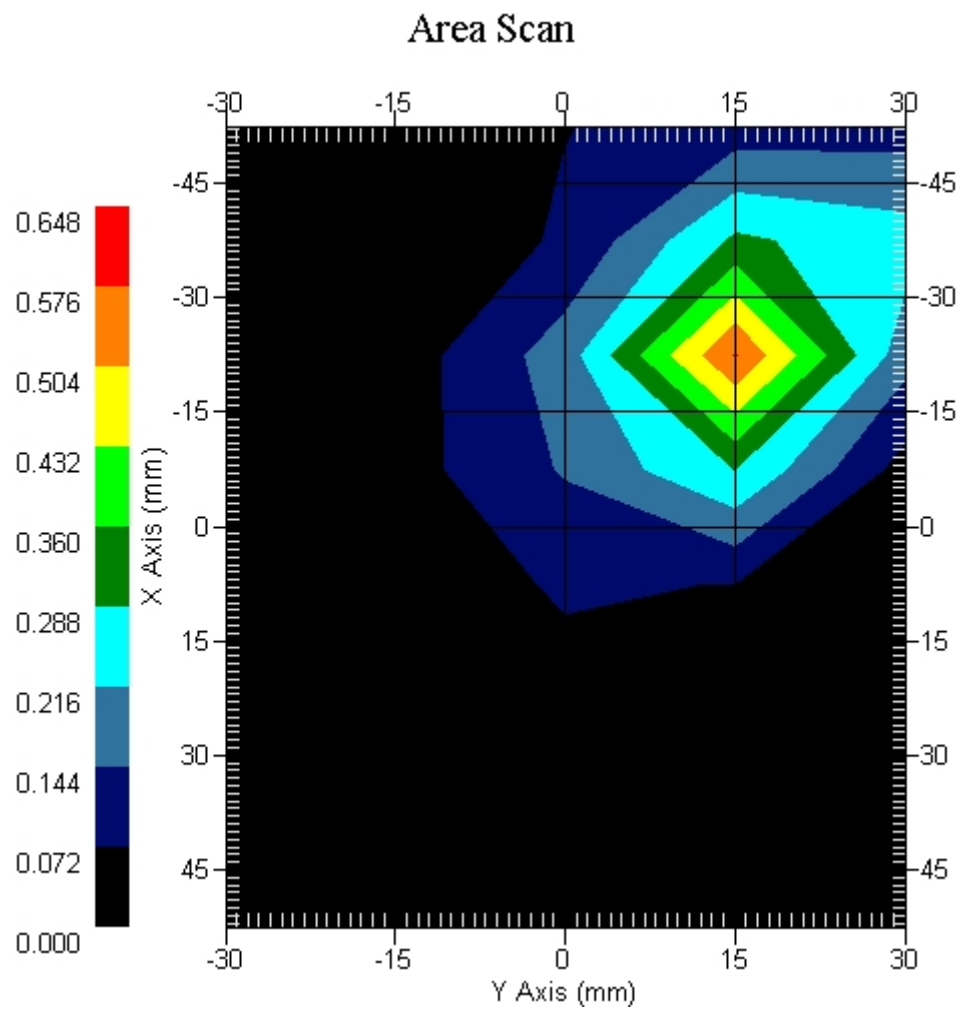
Measurement Data

Crest Factor : 8
 Tissue Temp. : 21.30 °C
 Ambient Temp. : 21.90 °C
 Area Scan : 8x5x1 : Measurement x=15mm, y=15mm, z=4mm
 Zoom Scan : 5x5x8 : Measurement x=8mm, y=8mm, z=4mm
 Power Drift-Start : 0.043 W/kg
 Power Drift-Finish: 0.043 W/kg
 Power Drift (%) : -0.603

DUT Position : 15° Tilt
 Channel : 661



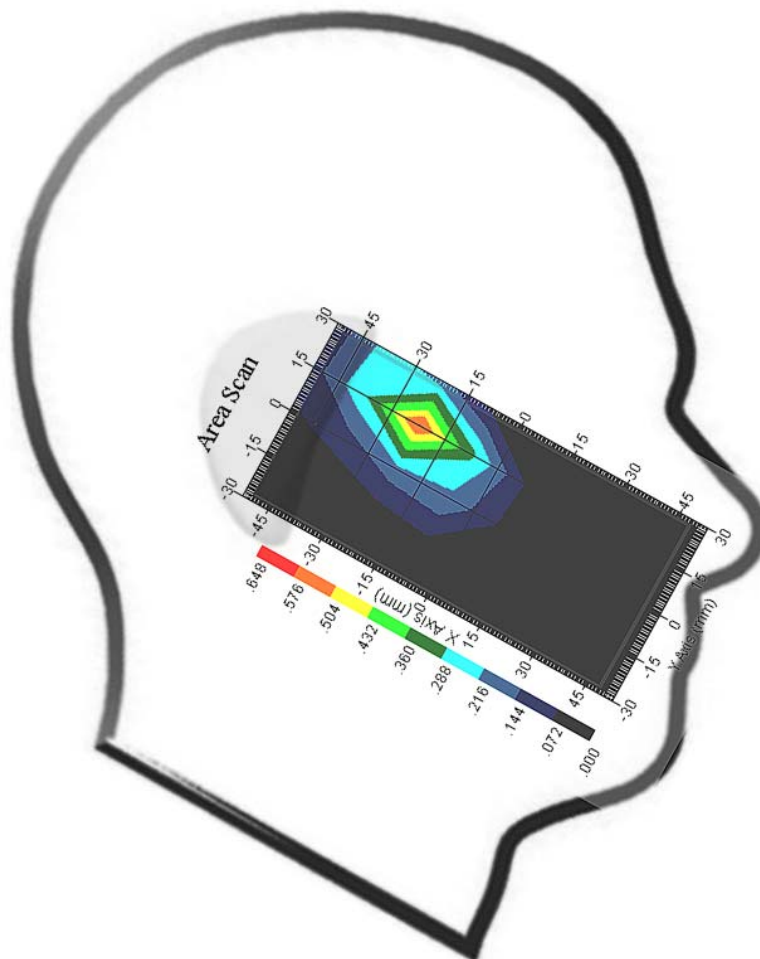
1 gram SAR value : 0.518 W/kg
 10 gram SAR value : 0.396 W/kg
 Area Scan Peak SAR : 0.580 W/kg
 Zoom Scan Peak SAR : 0.960 W/kg



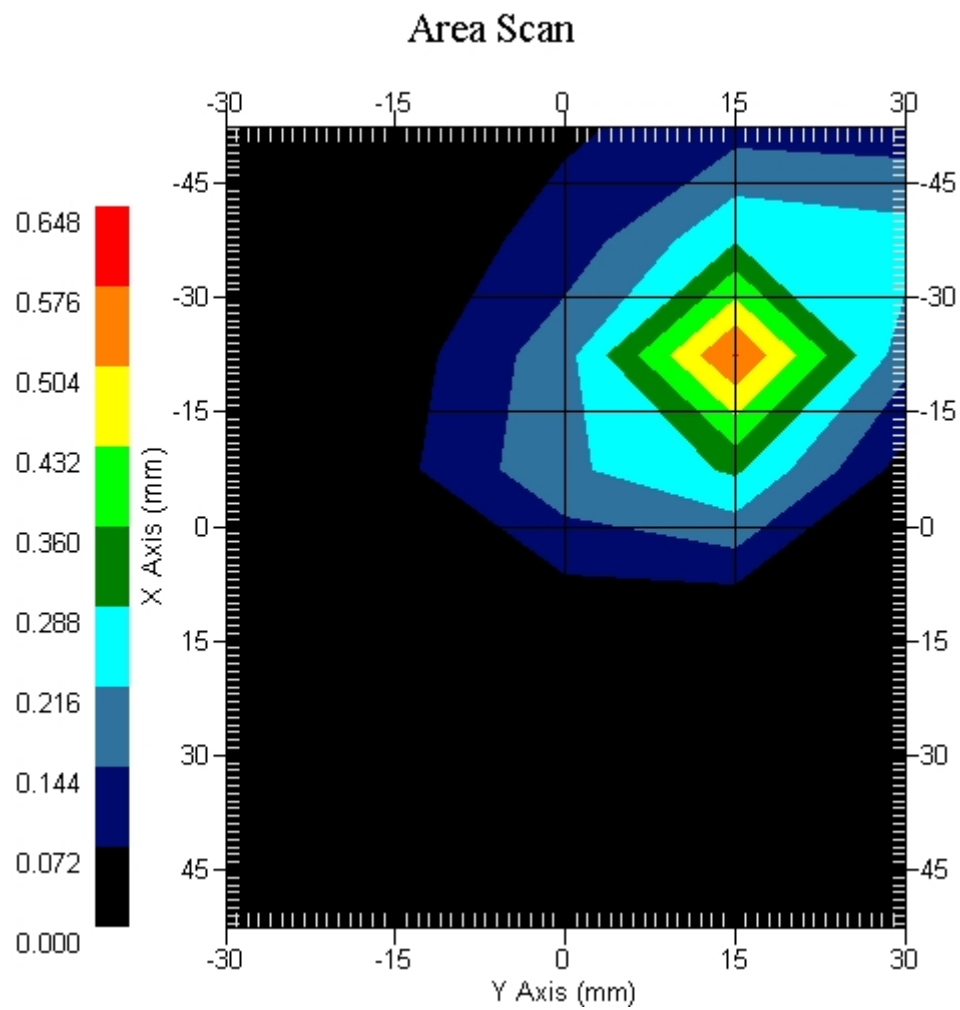
Measurement Data

Crest Factor : 8
 Tissue Temp. : 21.30 °C
 Ambient Temp. : 21.90 °C
 Area Scan : 8x5x1 : Measurement x=15mm, y=15mm, z=4mm
 Zoom Scan : 5x5x8 : Measurement x=8mm, y=8mm, z=4mm
 Power Drift-Start : 0.041 W/kg
 Power Drift-Finish: 0.041 W/kg
 Power Drift (%) : -0.082

DUT Position : 15° Tilt
 Channel : 810



1 gram SAR value : 0.536 W/kg
 10 gram SAR value : 0.389 W/kg
 Area Scan Peak SAR : 0.580 W/kg
 Zoom Scan Peak SAR : 0.990 W/kg



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SAR Test Report

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Product Data

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Frequency : 1900.00 MHz
Max. Transmit Pwr : 1 W
Drift Time : 0 min(s)
Length : 119.6 mm
Width : 57.1 mm
Depth : 15.9 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 : 04-Mar-2009
Temperature : 21.30 °C
Ambient Temp. : 21.90 °C
Humidity : 51.00 RH%
Epsilon : 40.03 F/m
Sigma : 1.41 S/m
Density : 1000.00 kg/cu. m

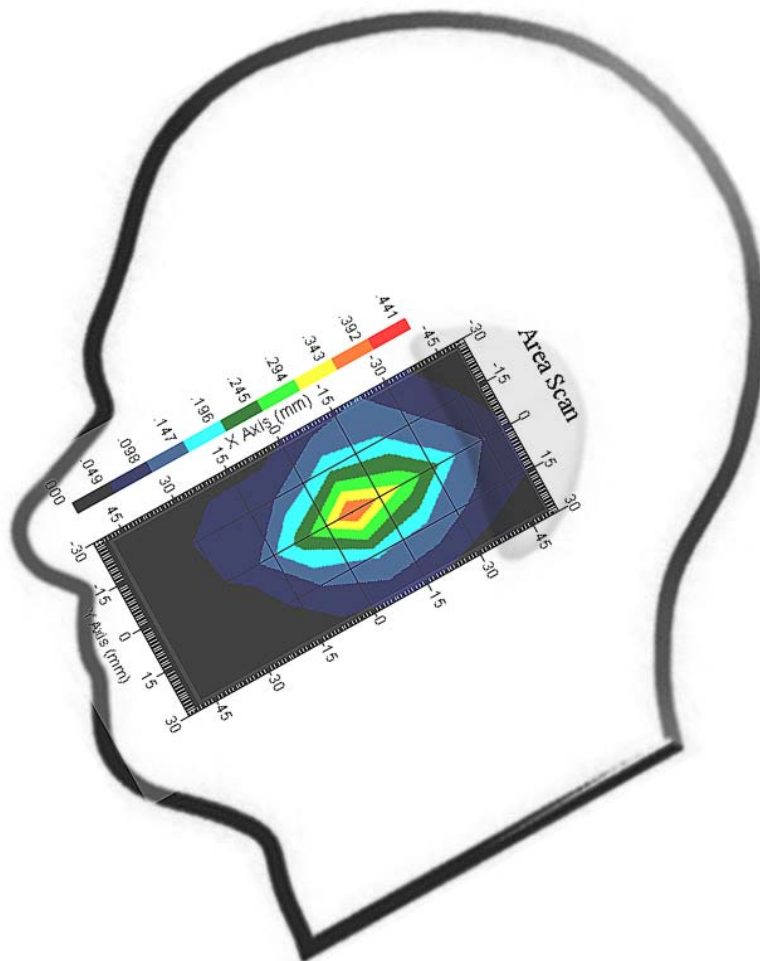
Probe Data

Name : Probe 265
Model : E020
Type : E-Field Triangle
Serial No. : 265
Last Calib. Date : 09-May-2008
Frequency : 1900.00 MHz
Duty Cycle Factor: 8
Conversion Factor: 5.1
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

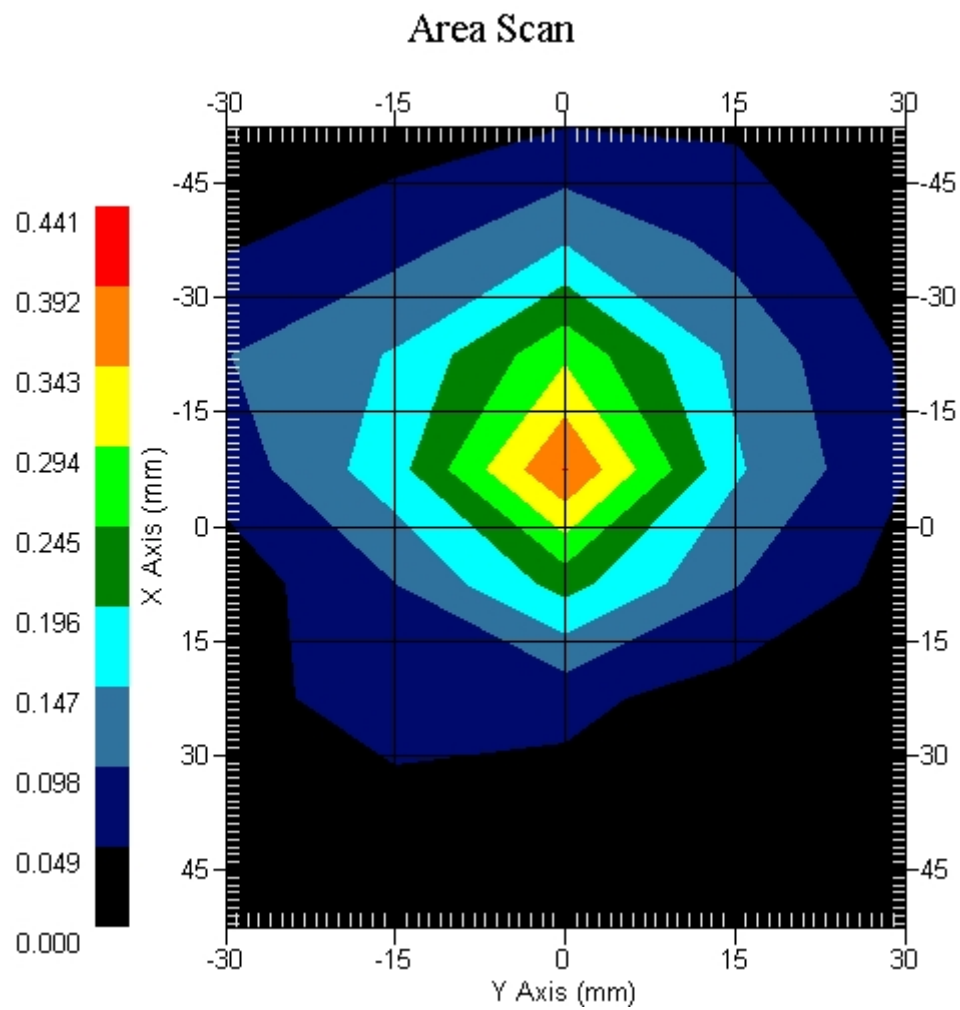
Measurement Data

Crest Factor : 8
 Tissue Temp. : 21.30 °C
 Ambient Temp. : 21.90 °C
 Area Scan : 8x5x1 : Measurement x=15mm, y=15mm, z=4mm
 Zoom Scan : 5x5x8 : Measurement x=8mm, y=8mm, z=4mm
 Power Drift-Start : 0.160 W/kg
 Power Drift-Finish: 0.160 W/kg
 Power Drift (%) : -0.935

DUT Position : Touch
 Channel : 512



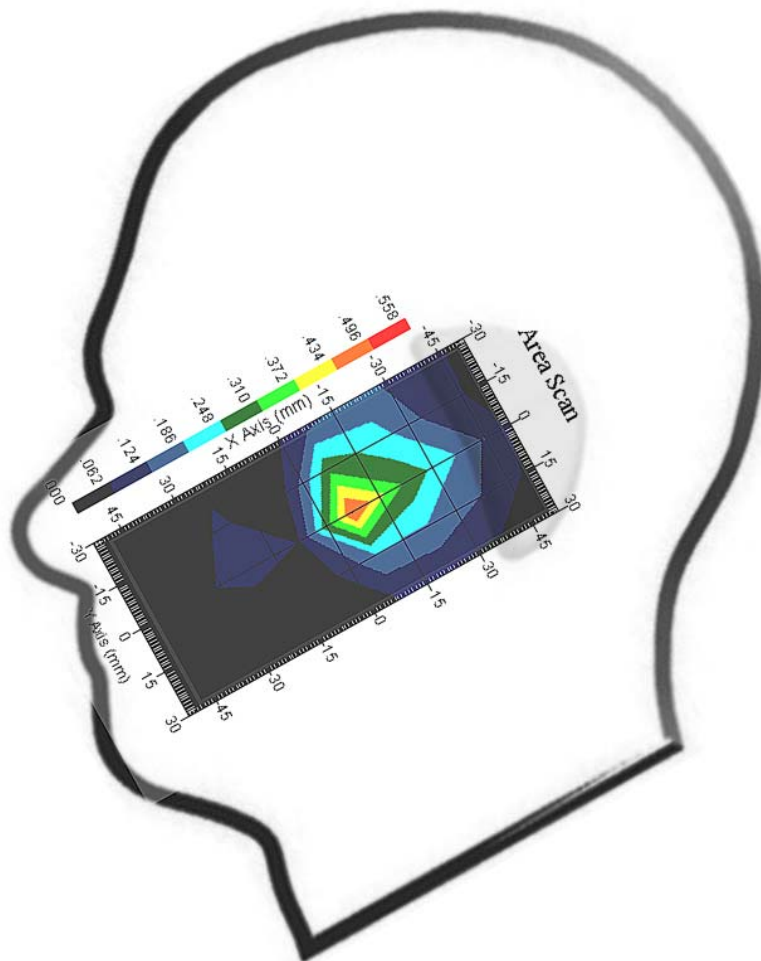
1 gram SAR value : 0.301 W/kg
 10 gram SAR value : 0.160 W/kg
 Area Scan Peak SAR : 0.394 W/kg
 Zoom Scan Peak SAR : 0.640 W/kg



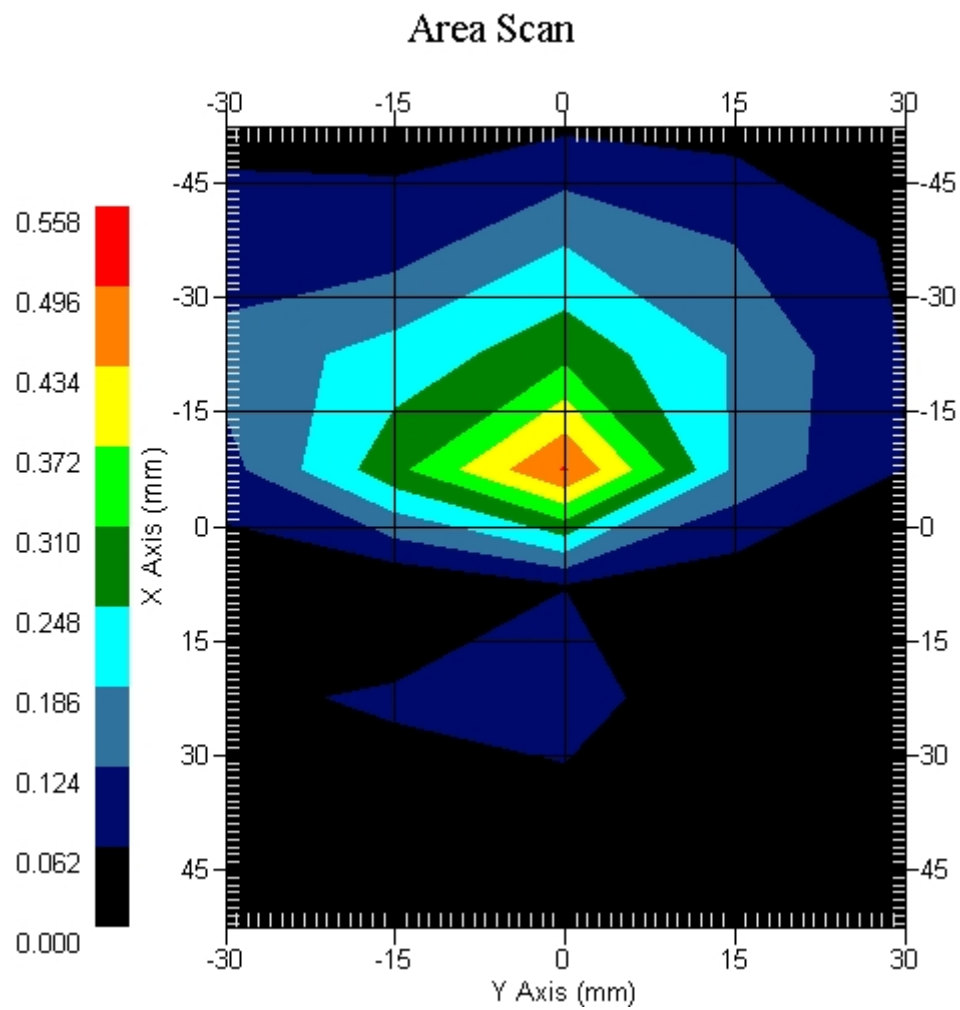
Measurement Data

Crest Factor : 8
 Tissue Temp. : 21.30 °C
 Ambient Temp. : 21.90 °C
 Area Scan : 8x5x1 : Measurement x=15mm, y=15mm, z=4mm
 Zoom Scan : 5x5x8 : Measurement x=8mm, y=8mm, z=4mm
 Power Drift-Start : 0.228 W/kg
 Power Drift-Finish: 0.223 W/kg
 Power Drift (%) : -2.320

DUT Position : Touch
 Channel : 661



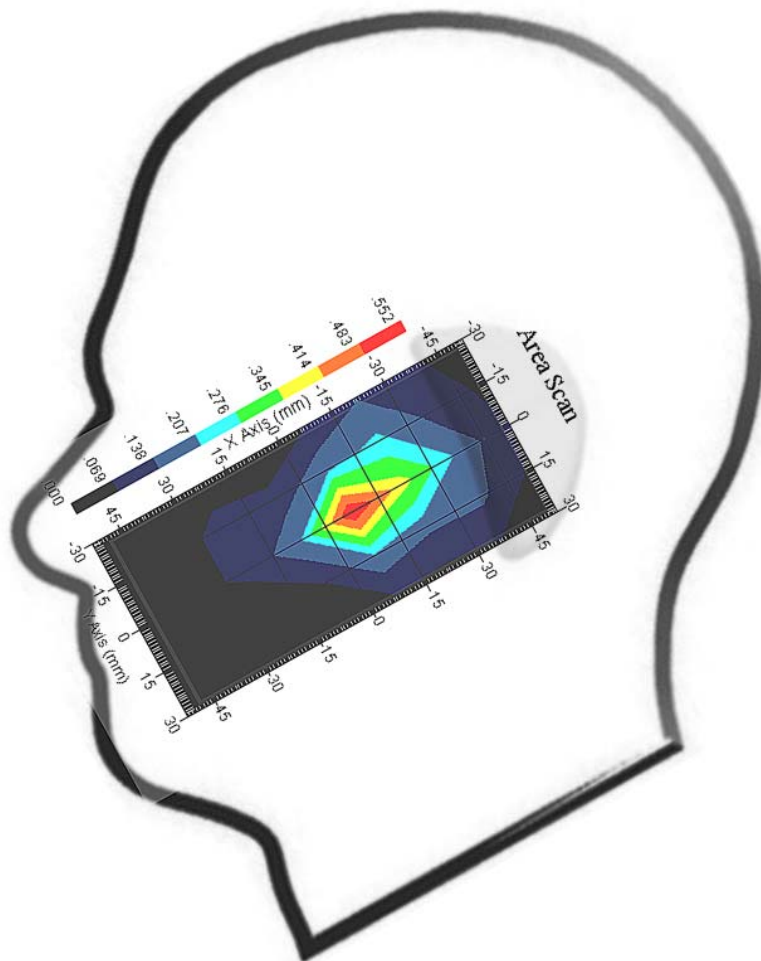
1 gram SAR value : 0.411 W/kg
 10 gram SAR value : 0.259 W/kg
 Area Scan Peak SAR : 0.500 W/kg
 Zoom Scan Peak SAR : 0.825 W/kg



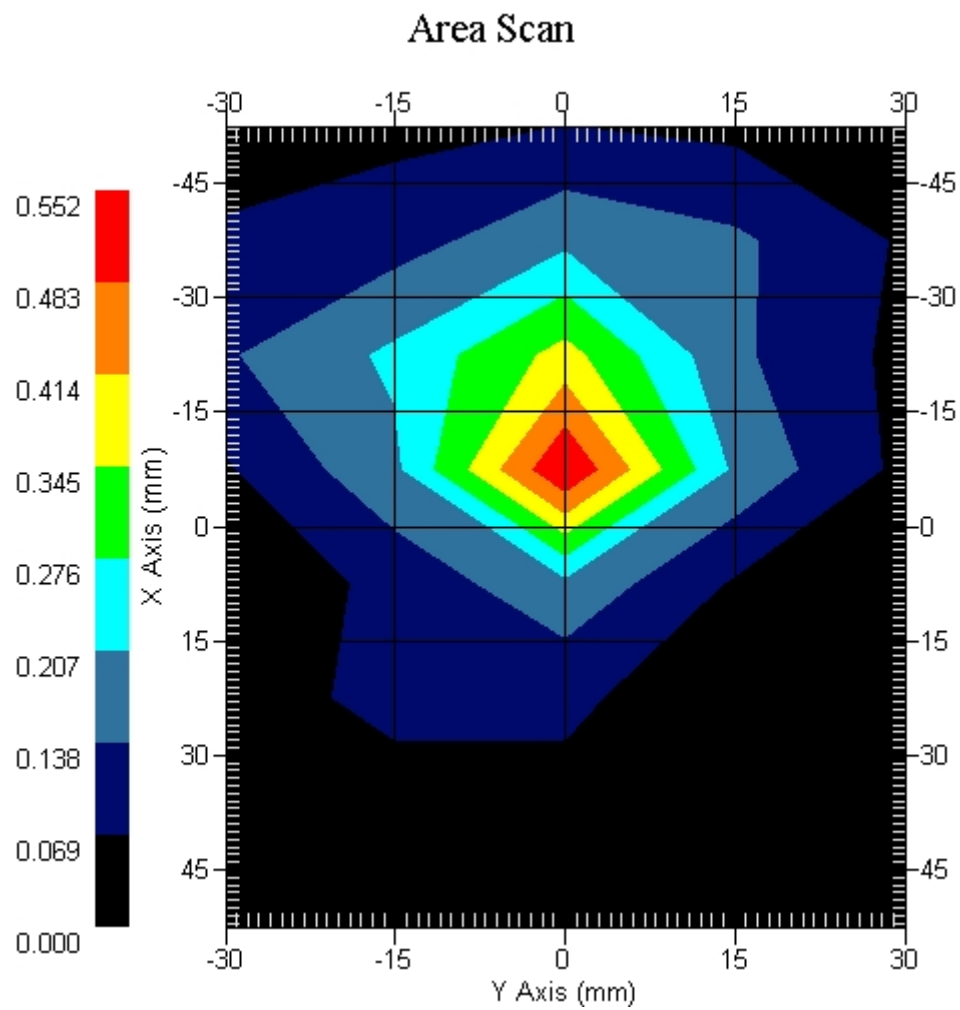
Measurement Data

Crest Factor : 8
 Tissue Temp. : 21.30 °C
 Ambient Temp. : 21.90 °C
 Area Scan : 8x5x1 : Measurement x=15mm, y=15mm, z=4mm
 Zoom Scan : 5x5x8 : Measurement x=8mm, y=8mm, z=4mm
 Power Drift-Start : 0.201 W/kg
 Power Drift-Finish: 0.194 W/kg
 Power Drift (%) : -3.482

DUT Position : Touch
 Channel : 810



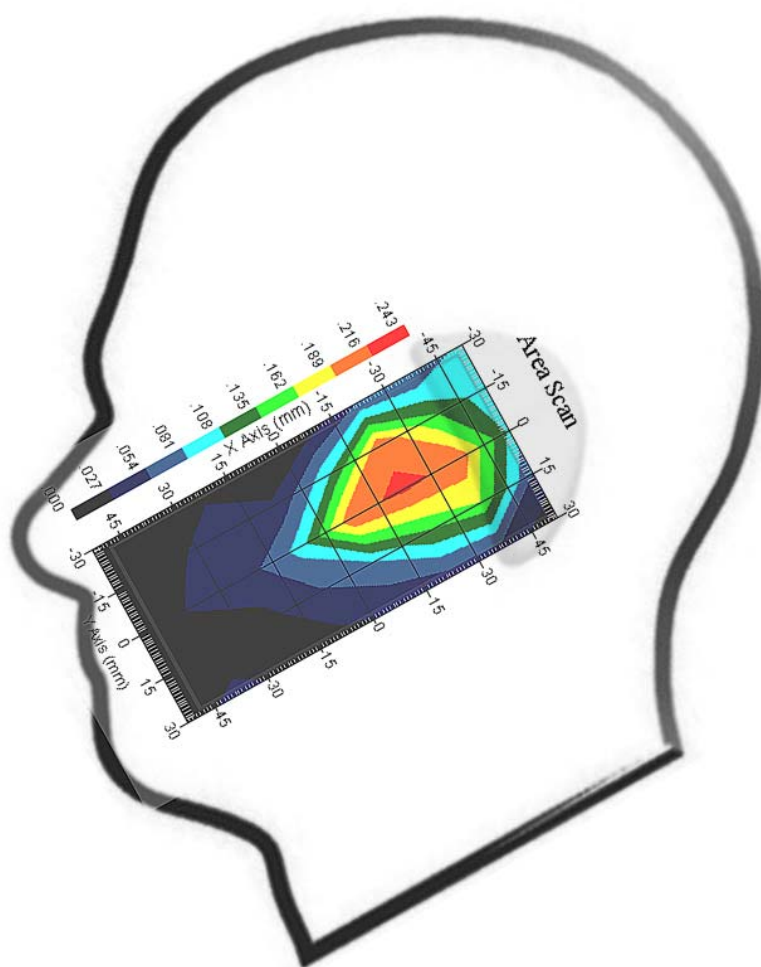
1 gram SAR value : 0.448 W/kg
 10 gram SAR value : 0.241 W/kg
 Area Scan Peak SAR : 0.550 W/kg
 Zoom Scan Peak SAR : 0.912 W/kg



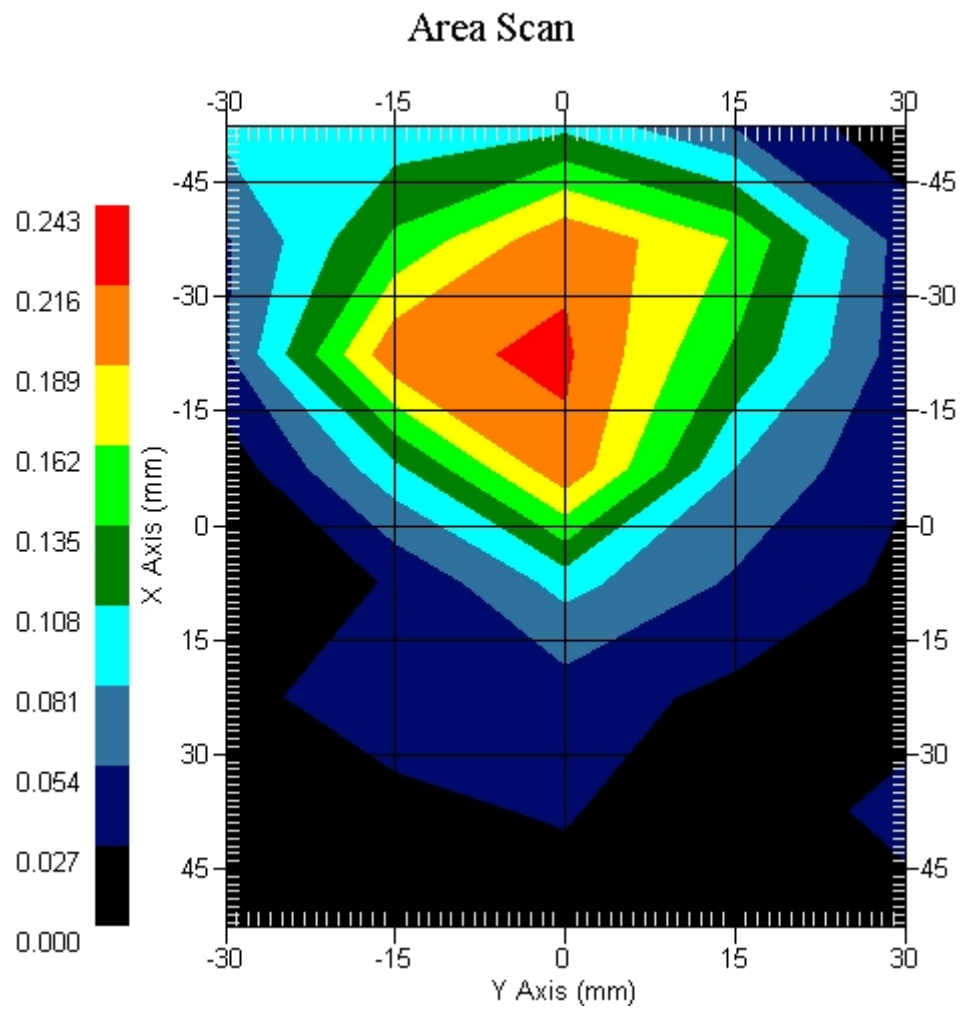
Measurement Data

Crest Factor : 8
 Tissue Temp. : 21.30 °C
 Ambient Temp. : 21.90 °C
 Area Scan : 8x5x1 : Measurement x=15mm, y=15mm, z=4mm
 Zoom Scan : 5x5x8 : Measurement x=8mm, y=8mm, z=4mm
 Power Drift-Start : 0.194 W/kg
 Power Drift-Finish: 0.200 W/kg
 Power Drift (%) : 3.092

DUT Position : 15° Tilt
 Channel : 512



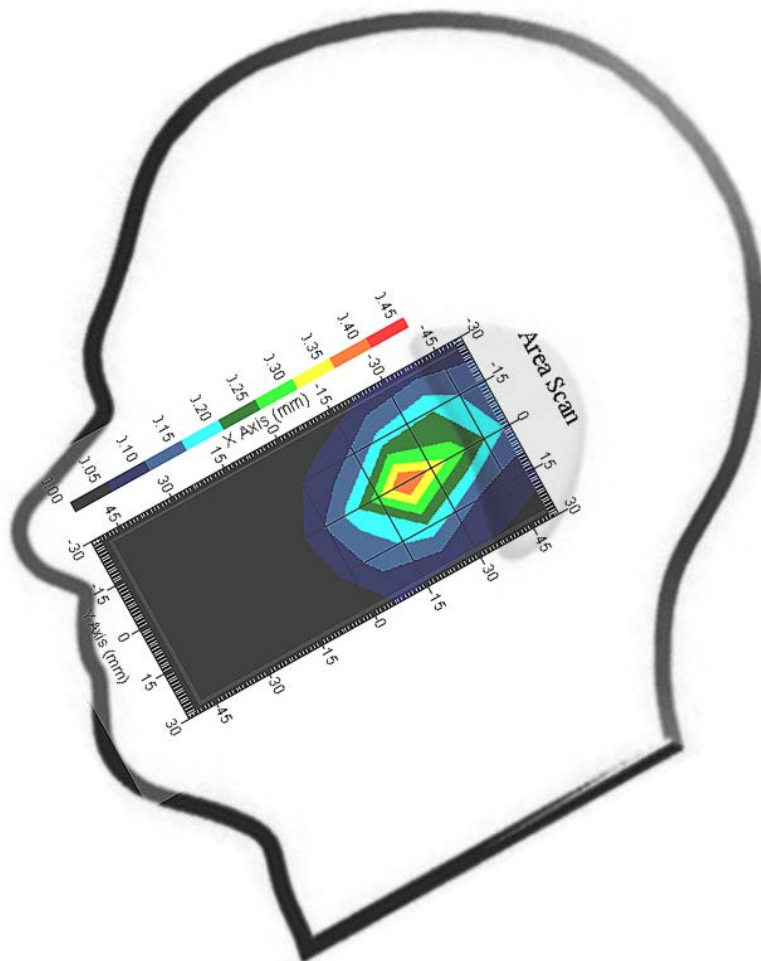
1 gram SAR value : 0.192 W/kg
 10 gram SAR value : 0.085 W/kg
 Area Scan Peak SAR : 0.220 W/kg
 Zoom Scan Peak SAR : 0.412 W/kg



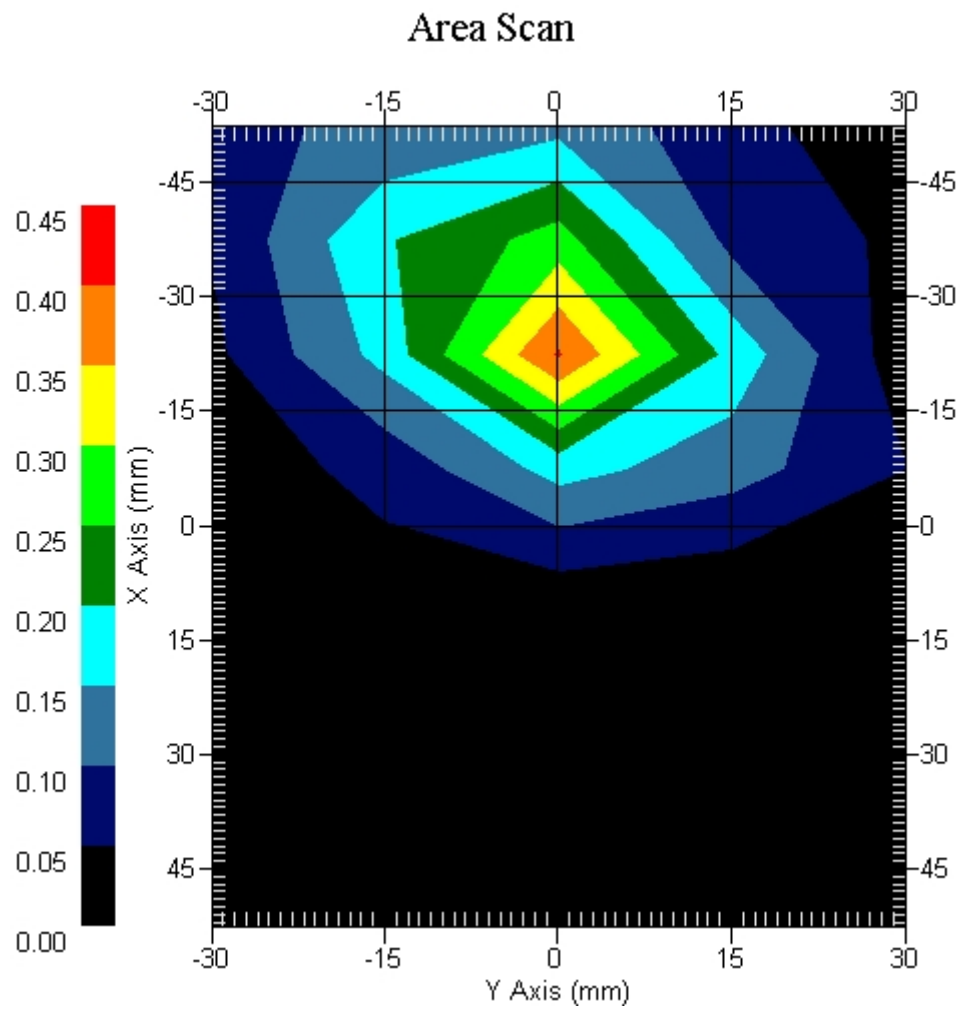
Measurement Data

Crest Factor : 8
 Tissue Temp. : 21.30 °C
 Ambient Temp. : 21.90 °C
 Area Scan : 8x5x1 : Measurement x=15mm, y=15mm, z=4mm
 Zoom Scan : 5x5x8 : Measurement x=8mm, y=8mm, z=4mm
 Power Drift-Start : 0.292 W/kg
 Power Drift-Finish: 0.287 W/kg
 Power Drift (%) : -1.884

DUT Position : 15° Tilt
 Channel : 661



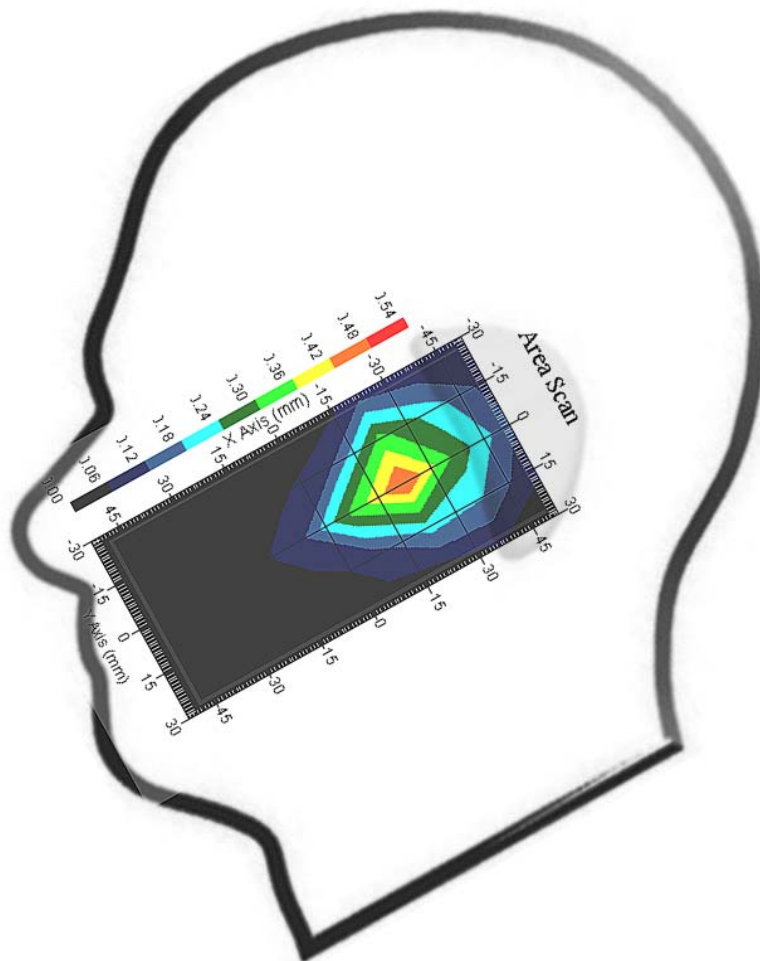
1 gram SAR value : 0.380 W/kg
 10 gram SAR value : 0.211 W/kg
 Area Scan Peak SAR : 0.403 W/kg
 Zoom Scan Peak SAR : 0.650 W/kg



Measurement Data

Crest Factor : 8
 Tissue Temp. : 21.30 °C
 Ambient Temp. : 21.90 °C
 Area Scan : 8x5x1 : Measurement x=15mm, y=15mm, z=4mm
 Zoom Scan : 5x5x8 : Measurement x=8mm, y=8mm, z=4mm
 Power Drift-Start : 0.407 W/kg
 Power Drift-Finish: 0.419 W/kg
 Power Drift (%) : 3.100

DUT Position : 15° Tilt
 Channel : 810



1 gram SAR value : 0.386 W/kg
 10 gram SAR value : 0.213 W/kg
 Area Scan Peak SAR : 0.482 W/kg
 Zoom Scan Peak SAR : 0.680 W/kg

