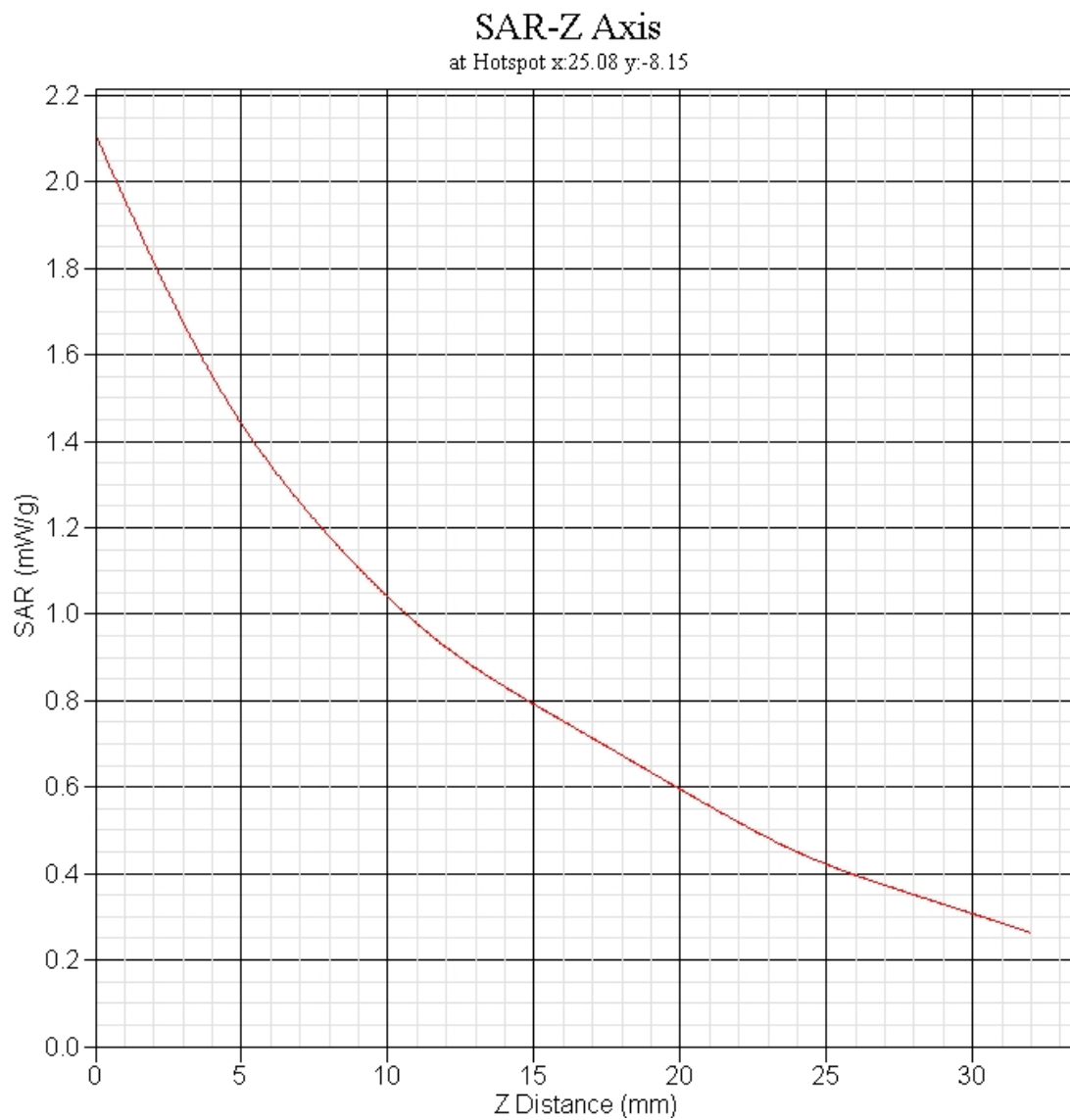


GSM 850 EUT Left-Cheek Z-Axis plot
Channel: 251



SAR measurement Data

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SAR Test Report-PCS 1900

Report Date : 17-Apr-2009
Measurement Date : 17-Apr-2009

Product Data

Device Name : PHONEX
Type : Std Form Cell Phone
Model : PG220
Frequency : 1900.00 MHz
Max. Transmit Pwr : 1 W
Drift Time : 0 min(s)
Length : 99 mm
Width : 56 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 : 17-Apr-2009
Temperature : 21.10 °C
Ambient Temp. : 22.20 °C
Humidity : 53.00 RH%
Epsilon : 40.33 F/m
Sigma : 1.41 S/m
Density : 1000.00 kg/cu. m

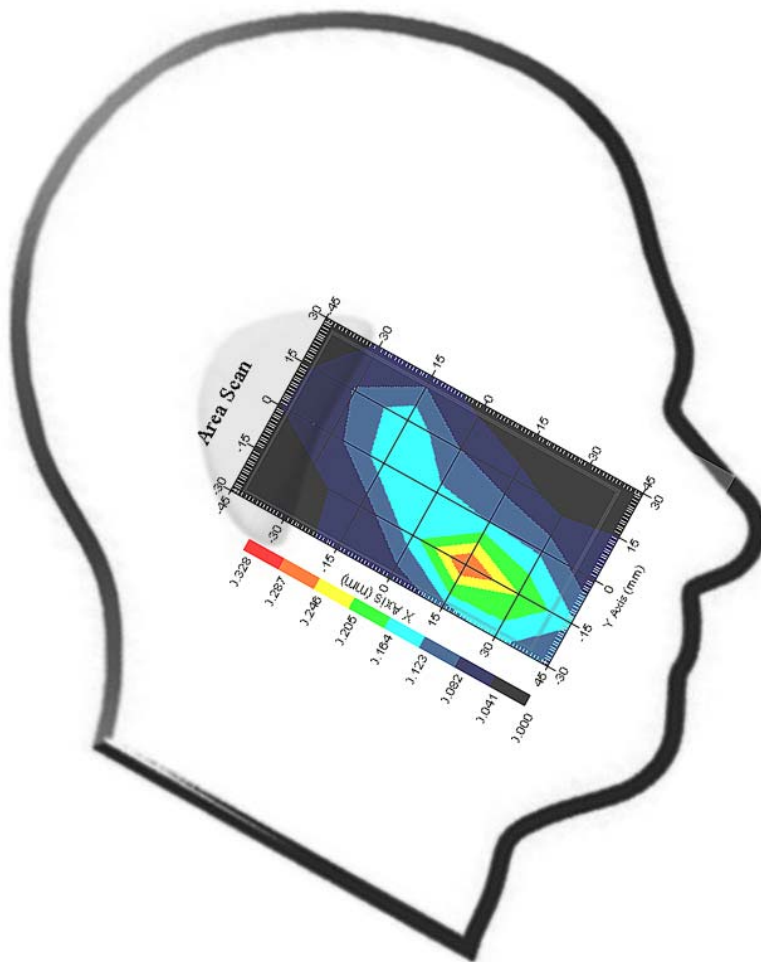
Probe Data

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: 4.51
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

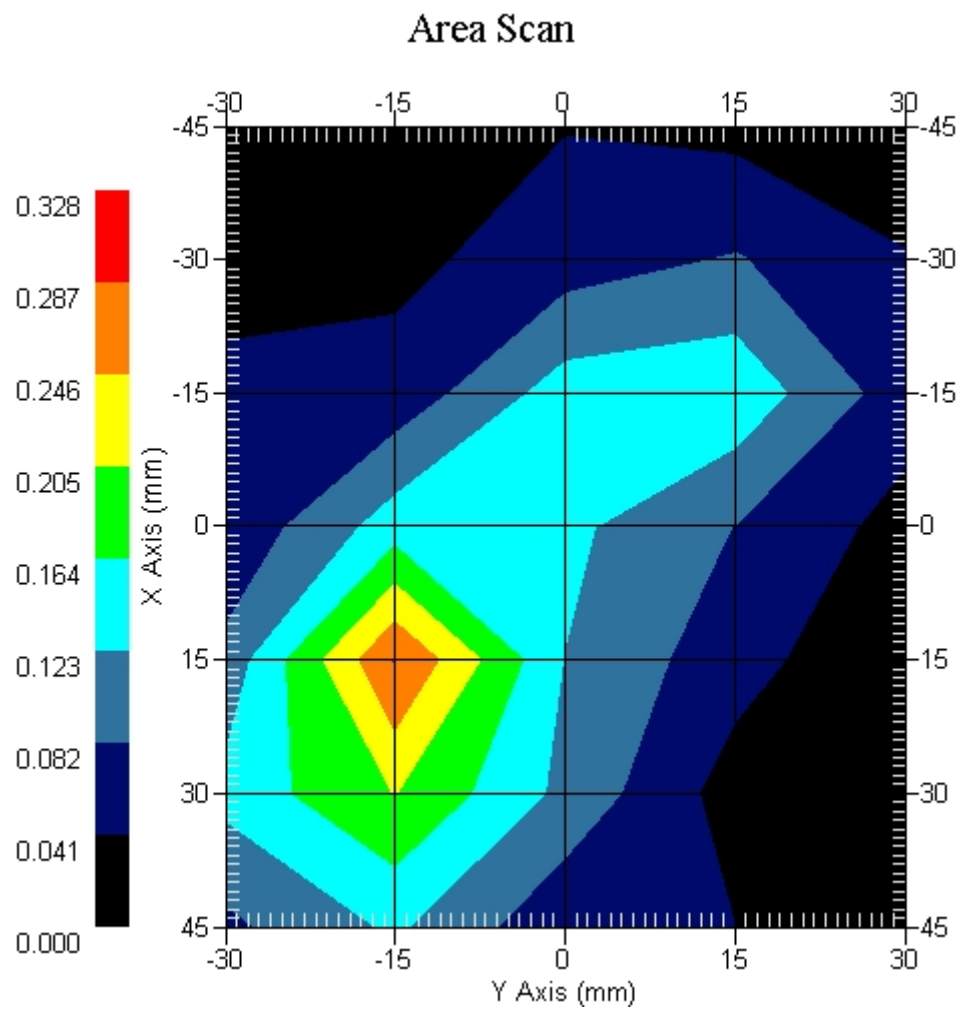
Measurement Data

Crest Factor : 8
 Tissue Temp. : 21.10 °C
 Ambient Temp. : 22.20 °C
 Area Scan : 7x5x1 : Measurement x=15mm, y=15mm, z=4mm
 Zoom Scan : 5x5x8 : Measurement x=8mm, y=8mm, z=4mm
 Power Drift-Start : 0.044 W/kg
 Power Drift-Finish: 0.042 W/kg
 Power Drift (%) : -4.545

DUT Position : Touch
 Channel : 512



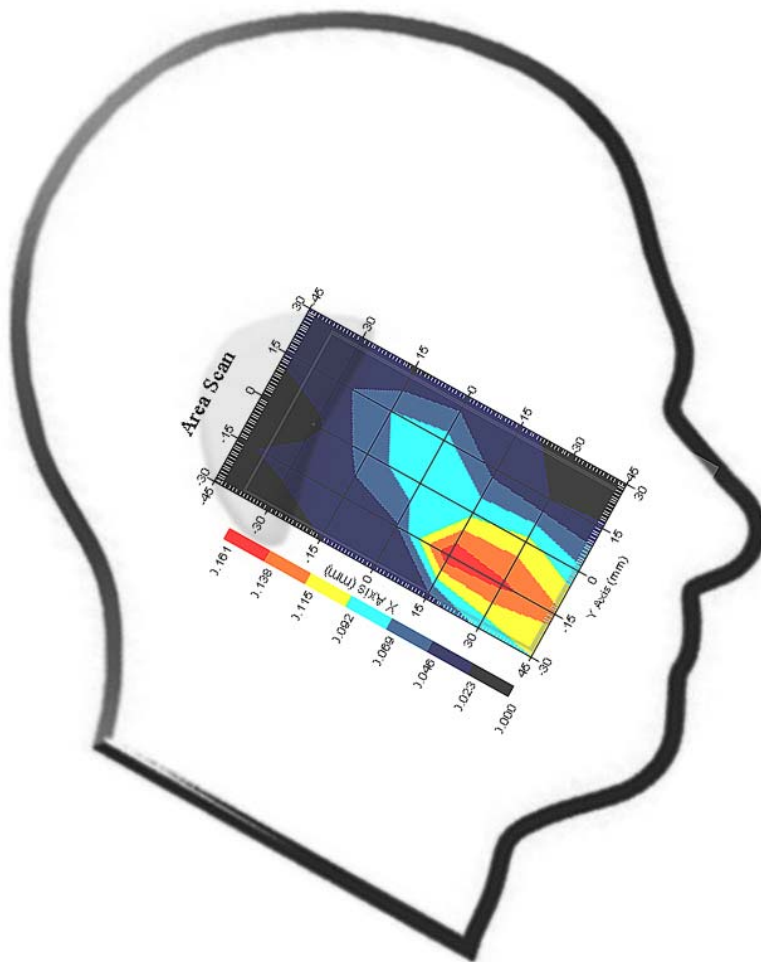
1 gram SAR value : 0.213 W/kg
 10 gram SAR value : 0.117 W/kg
 Area Scan Peak SAR : 0.289 W/kg
 Zoom Scan Peak SAR : 0.430 W/kg



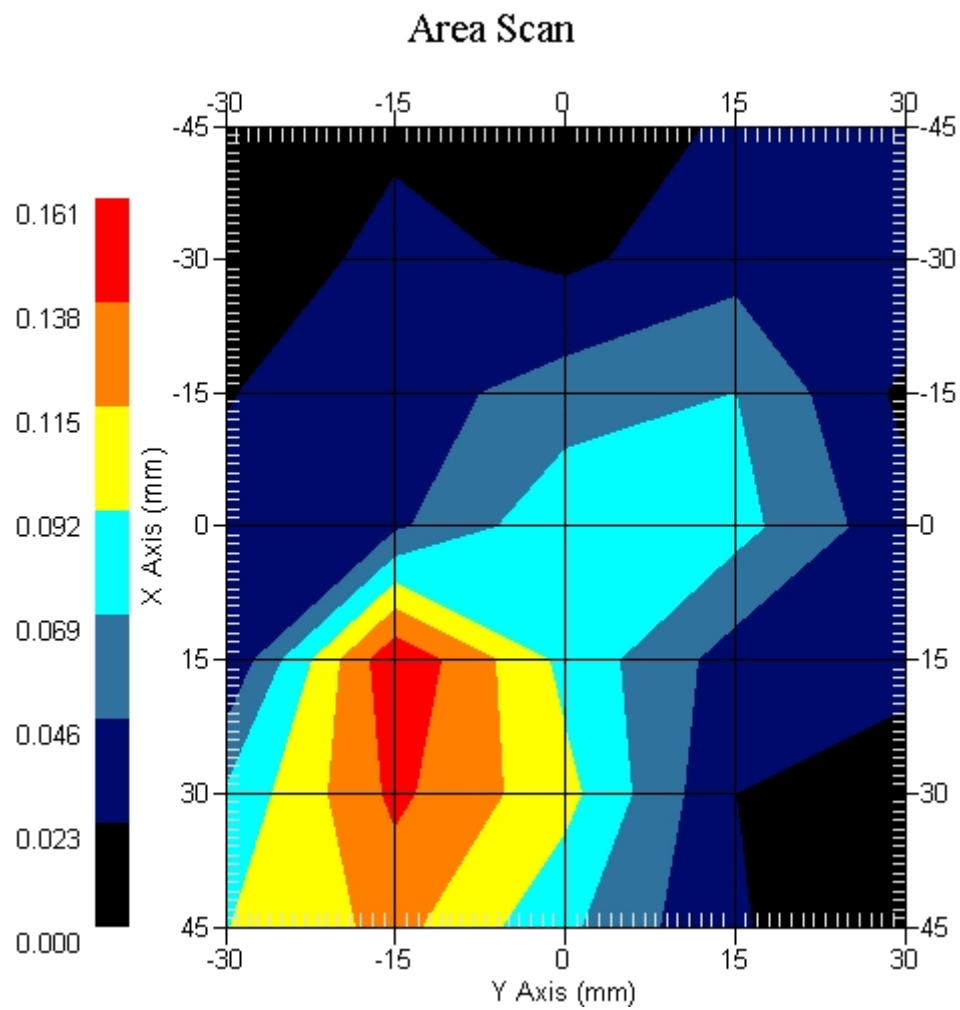
Measurement Data

Crest Factor : 8
 Tissue Temp. : 21.10 °C
 Ambient Temp. : 22.20 °C
 Area Scan : 7x5x1 : Measurement x=15mm, y=15mm, z=4mm
 Zoom Scan : 5x5x8 : Measurement x=8mm, y=8mm, z=4mm
 Power Drift-Start : 0.022 W/kg
 Power Drift-Finish: 0.021 W/kg
 Power Drift (%) : -4.545

DUT Position : Touch
 Channel : 661



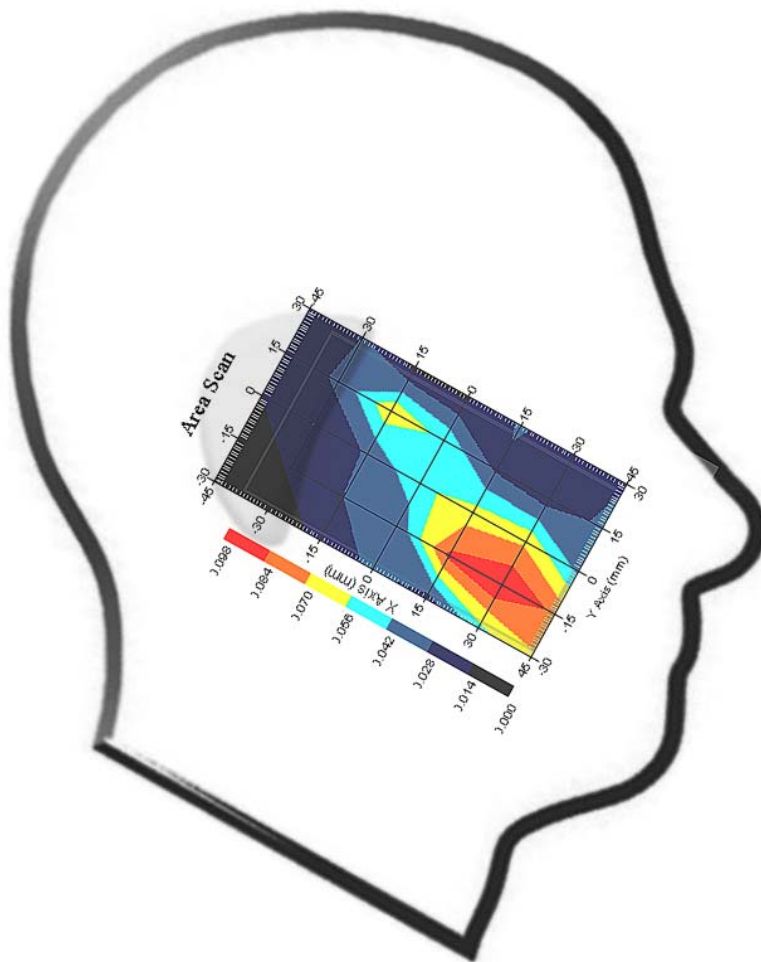
1 gram SAR value : 0.151 W/kg
 10 gram SAR value : 0.110 W/kg
 Area Scan Peak SAR : 0.158 W/kg
 Zoom Scan Peak SAR : 0.250 W/kg



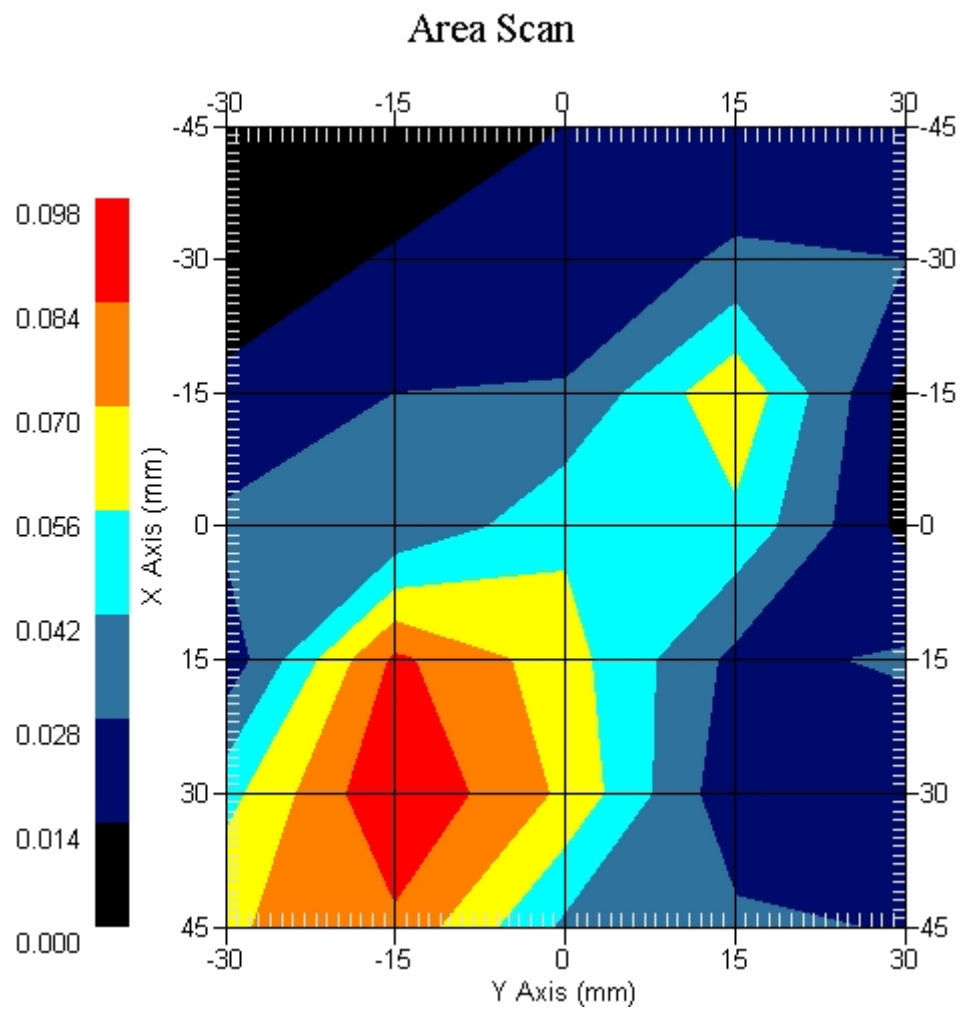
Measurement Data

Crest Factor : 8
 Tissue Temp. : 21.10 °C
 Ambient Temp. : 22.20 °C
 Area Scan : 7x5x1 : Measurement x=15mm, y=15mm, z=4mm
 Zoom Scan : 5x5x8 : Measurement x=8mm, y=8mm, z=4mm
 Power Drift-Start : 0.017 W/kg
 Power Drift-Finish: 0.017 W/kg
 Power Drift (%) : -0.325

DUT Position : Touch
 Channel : 810



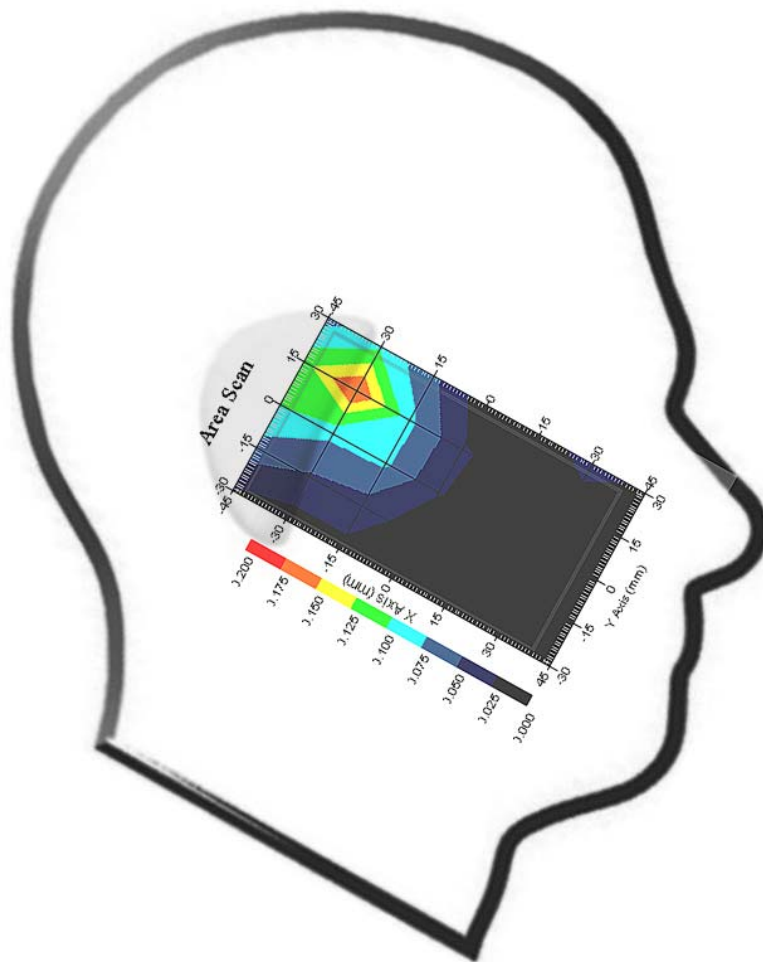
1 gram SAR value : 0.107 W/kg
 10 gram SAR value : 0.059 W/kg
 Area Scan Peak SAR : 0.097 W/kg
 Zoom Scan Peak SAR : 0.200 W/kg



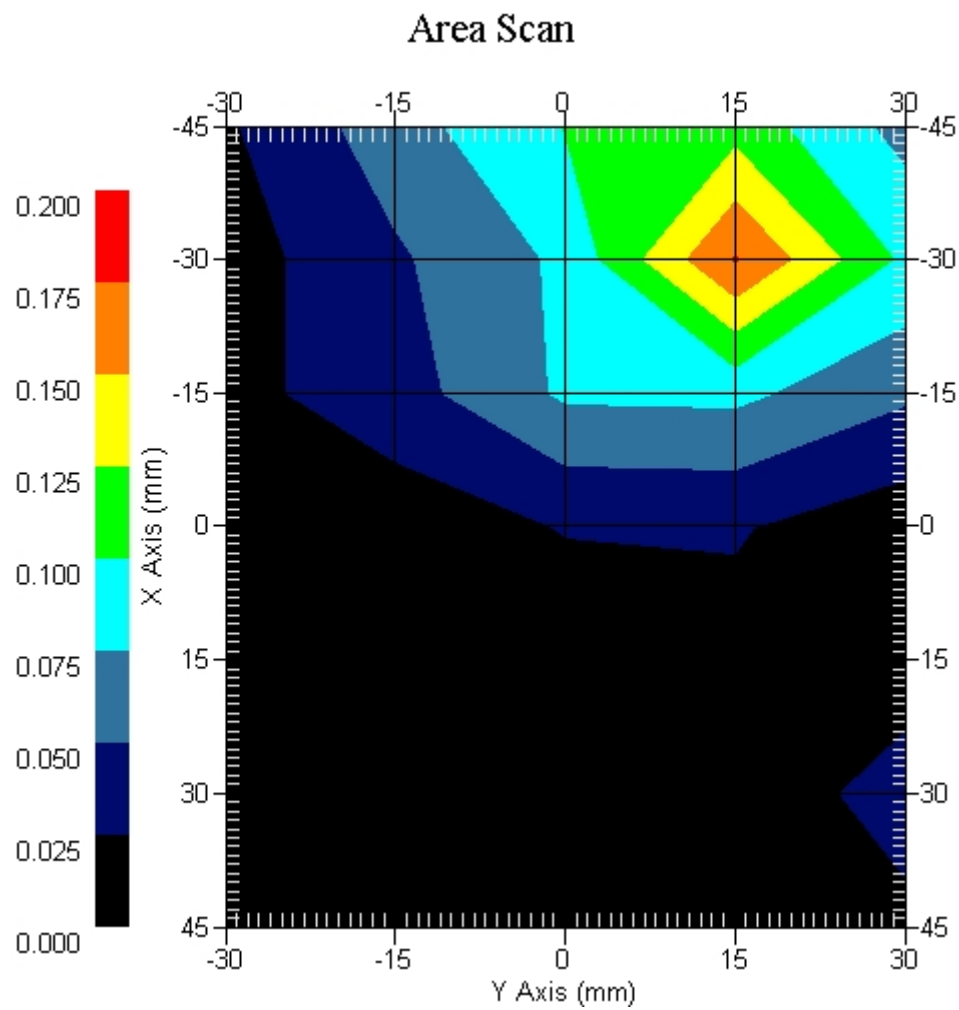
Measurement Data

Crest Factor : 8
 Tissue Temp. : 21.10 °C
 Ambient Temp. : 22.20 °C
 Area Scan : 7x5x1 : Measurement x=15mm, y=15mm, z=4mm
 Zoom Scan : 5x5x8 : Measurement x=8mm, y=8mm, z=4mm
 Power Drift-Start : 0.097 W/kg
 Power Drift-Finish: 0.099 W/kg
 Power Drift (%) : 2.494

DUT Position : 15° Tilt
 Channel : 512



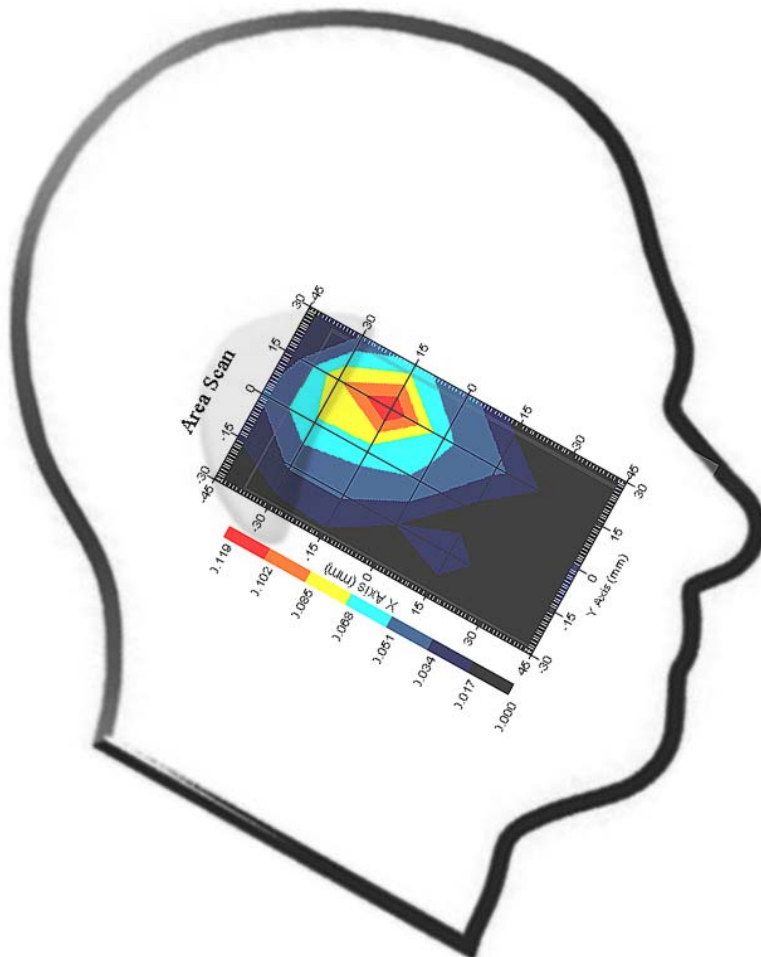
1 gram SAR value : 0.130 W/kg
 10 gram SAR value : 0.074 W/kg
 Area Scan Peak SAR : 0.177 W/kg
 Zoom Scan Peak SAR : 0.210 W/kg



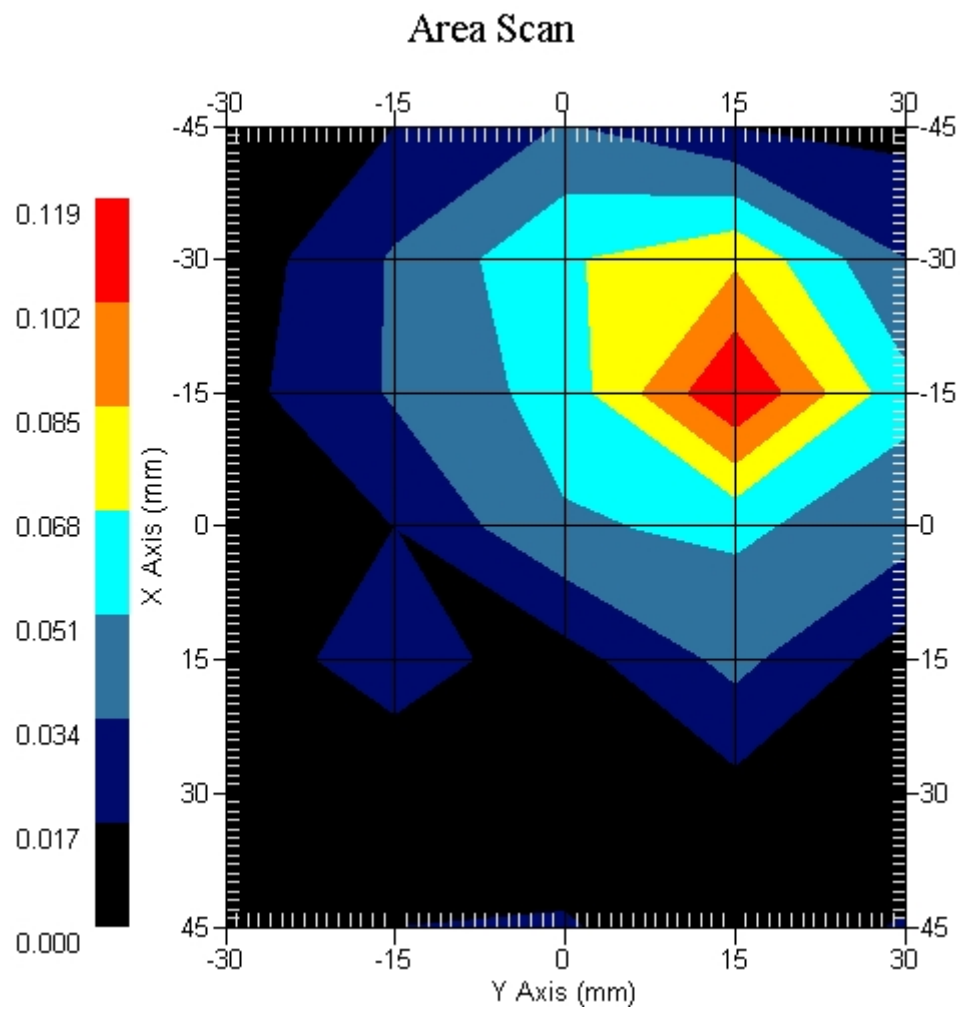
Measurement Data

Crest Factor : 8
 Tissue Temp. : 21.10 °C
 Ambient Temp. : 22.20 °C
 Area Scan : 7x5x1 : Measurement x=15mm, y=15mm, z=4mm
 Zoom Scan : 5x5x8 : Measurement x=8mm, y=8mm, z=4mm
 Power Drift-Start : 0.053 W/kg
 Power Drift-Finish: 0.051 W/kg
 Power Drift (%) : -3.773

DUT Position : 15° Tilt
 Channel : 661



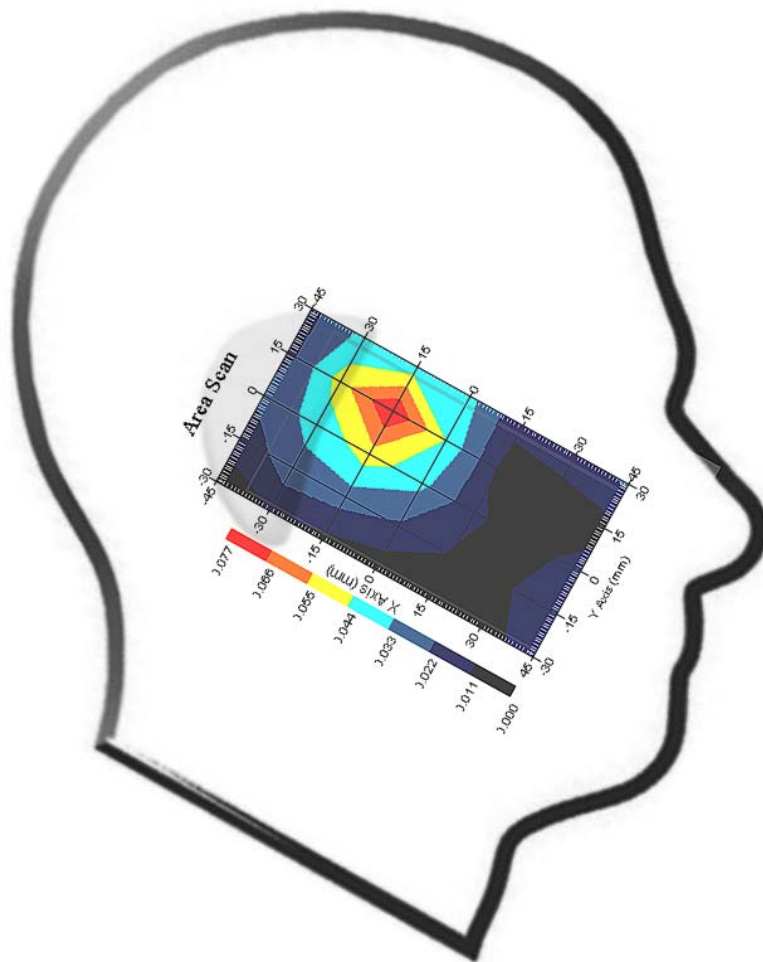
1 gram SAR value : 0.081 W/kg
 10 gram SAR value : 0.044 W/kg
 Area Scan Peak SAR : 0.119 W/kg
 Zoom Scan Peak SAR : 0.150 W/kg



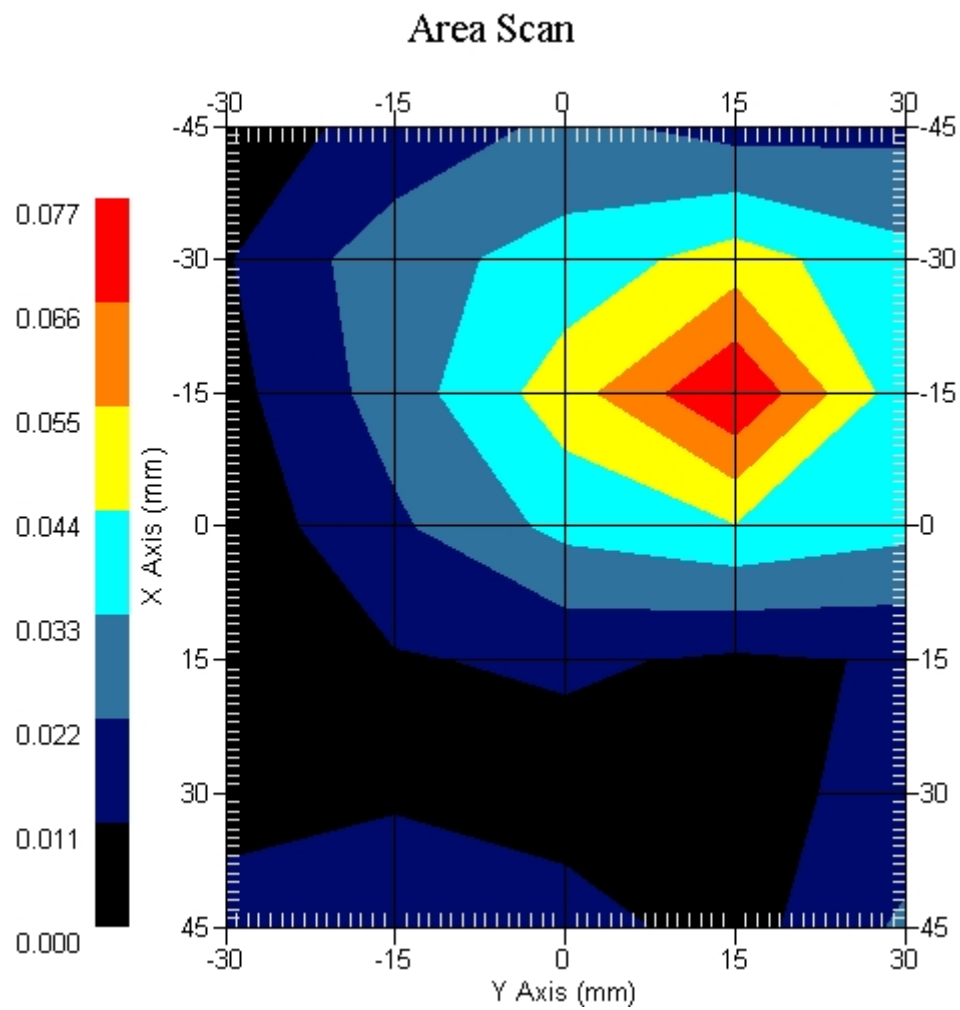
Measurement Data

Crest Factor : 8
 Tissue Temp. : 21.10 °C
 Ambient Temp. : 22.20 °C
 Area Scan : 7x5x1 : Measurement x=15mm, y=15mm, z=4mm
 Zoom Scan : 5x5x8 : Measurement x=8mm, y=8mm, z=4mm
 Power Drift-Start : 0.036 W/kg
 Power Drift-Finish: 0.036 W/kg
 Power Drift (%) : -0.940

DUT Position : 15° Tilt
 Channel : 810



1 gram SAR value : 0.044 W/kg
 10 gram SAR value : 0.021 W/kg
 Area Scan Peak SAR : 0.077 W/kg
 Zoom Scan Peak SAR : 0.090 W/kg



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SAR Test Report-PCS 1900

Report Date : 17-Apr-2009
Measurement Date : 17-Apr-2009

Product Data

Device Name : PHONEX
Type : Std Form Cell Phone
Model : PG220
Frequency : 1900.00 MHz
Max. Transmit Pwr : 1 W
Drift Time : 0 min(s)
Length : 99 mm
Width : 56 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 : 17-Apr-2009
Temperature : 21.10 °C
Ambient Temp. : 22.20 °C
Humidity : 53.00 RH%
Epsilon : 40.33 F/m
Sigma : 1.41 S/m
Density : 1000.00 kg/cu. m

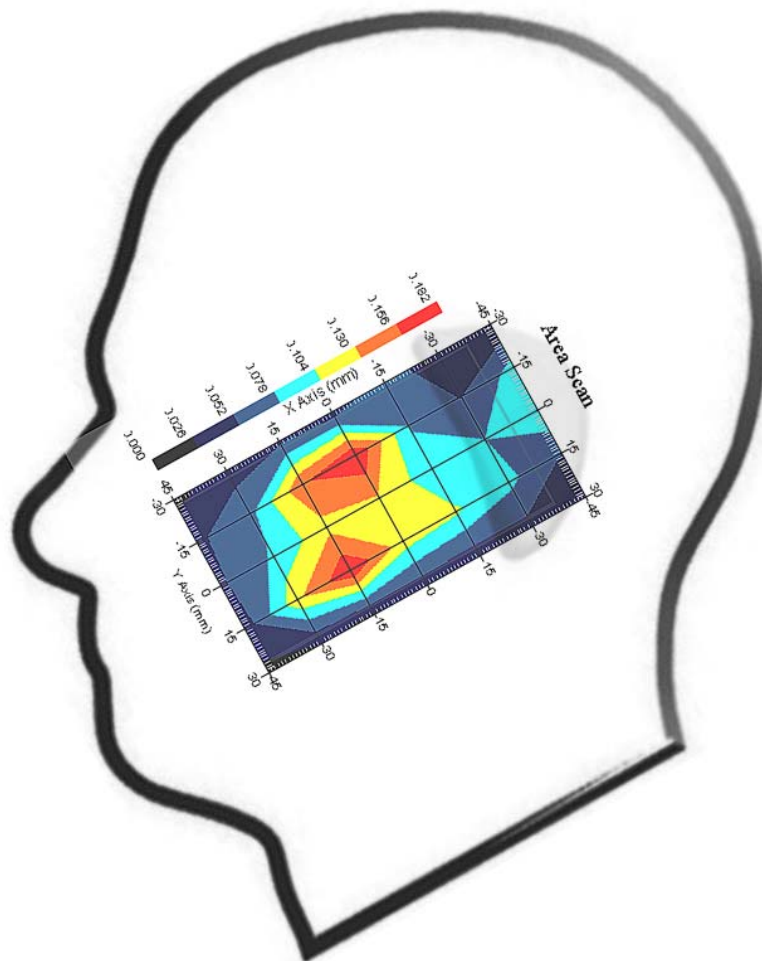
Probe Data

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: 4.51
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

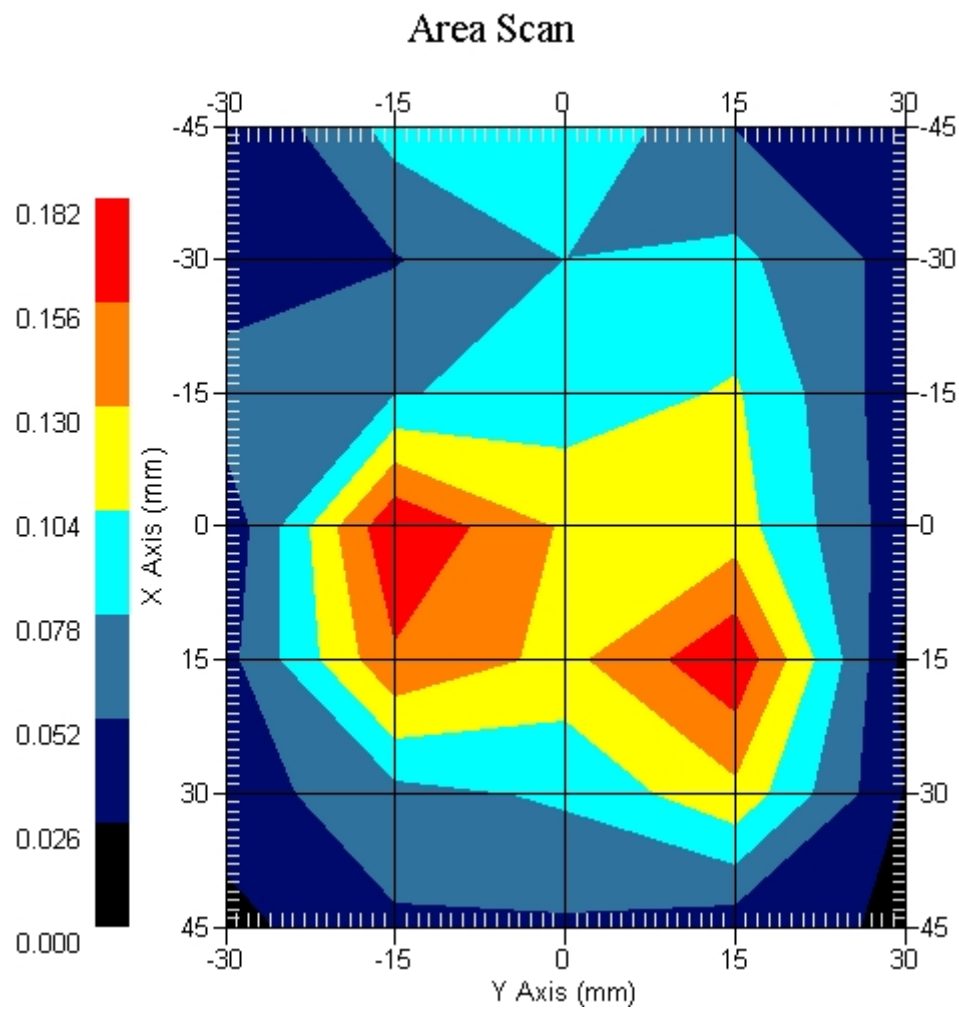
Measurement Data

Crest Factor : 8
 Tissue Temp. : 21.10 °C
 Ambient Temp. : 22.20 °C
 Area Scan : 7x5x1 : Measurement x=15mm, y=15mm, z=4mm
 Zoom Scan : 5x5x8 : Measurement x=8mm, y=8mm, z=4mm
 Power Drift-Start : 0.079 W/kg
 Power Drift-Finish: 0.082 W/kg
 Power Drift (%) : 3.797

DUT Position : Touch
 Channel : 512



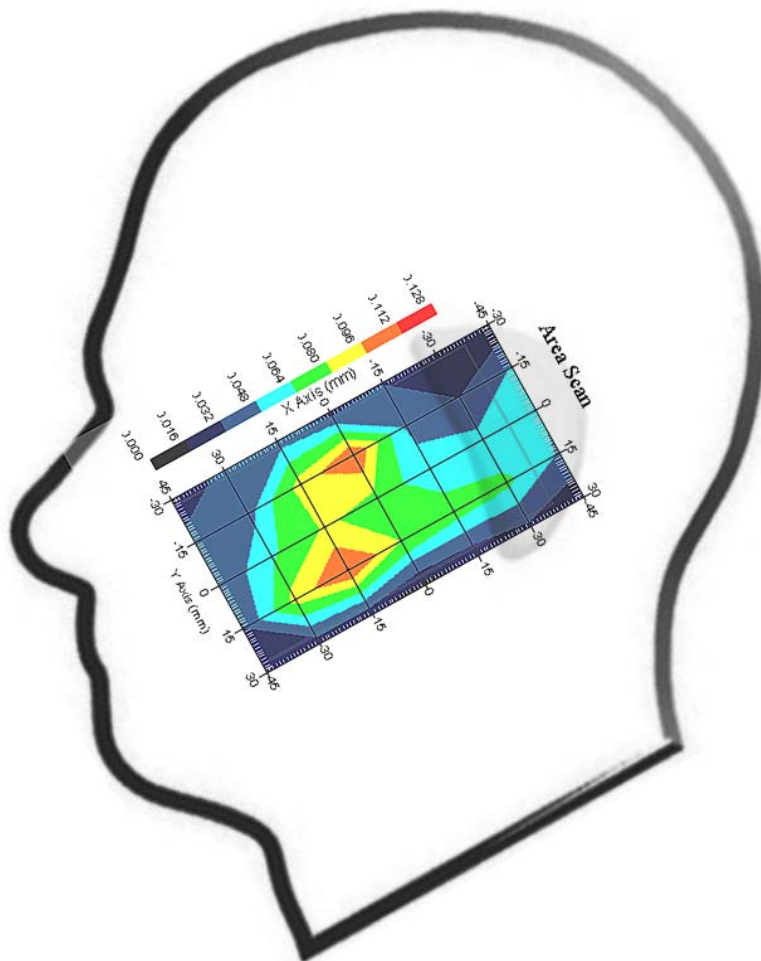
1 gram SAR value : 0.151 W/kg
 10 gram SAR value : 0.086 W/kg
 Area Scan Peak SAR : 0.179 W/kg
 Zoom Scan Peak SAR : 0.260 W/kg



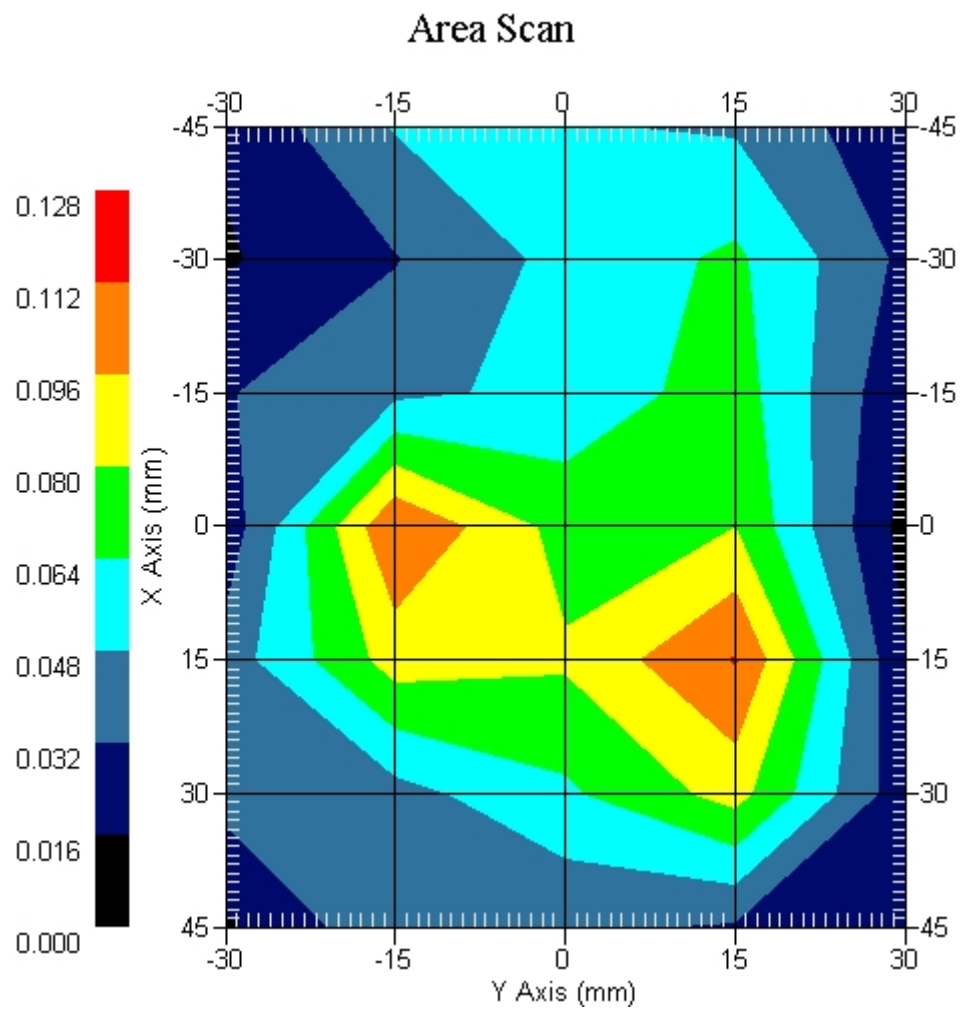
Measurement Data

Crest Factor : 8
 Tissue Temp. : 21.10 °C
 Ambient Temp. : 22.20 °C
 Area Scan : 7x5x1 : Measurement x=15mm, y=15mm, z=4mm
 Zoom Scan : 5x5x8 : Measurement x=8mm, y=8mm, z=4mm
 Power Drift-Start : 0.061 W/kg
 Power Drift-Finish: 0.063 W/kg
 Power Drift (%) : 3.278

DUT Position : Touch
 Channel : 661



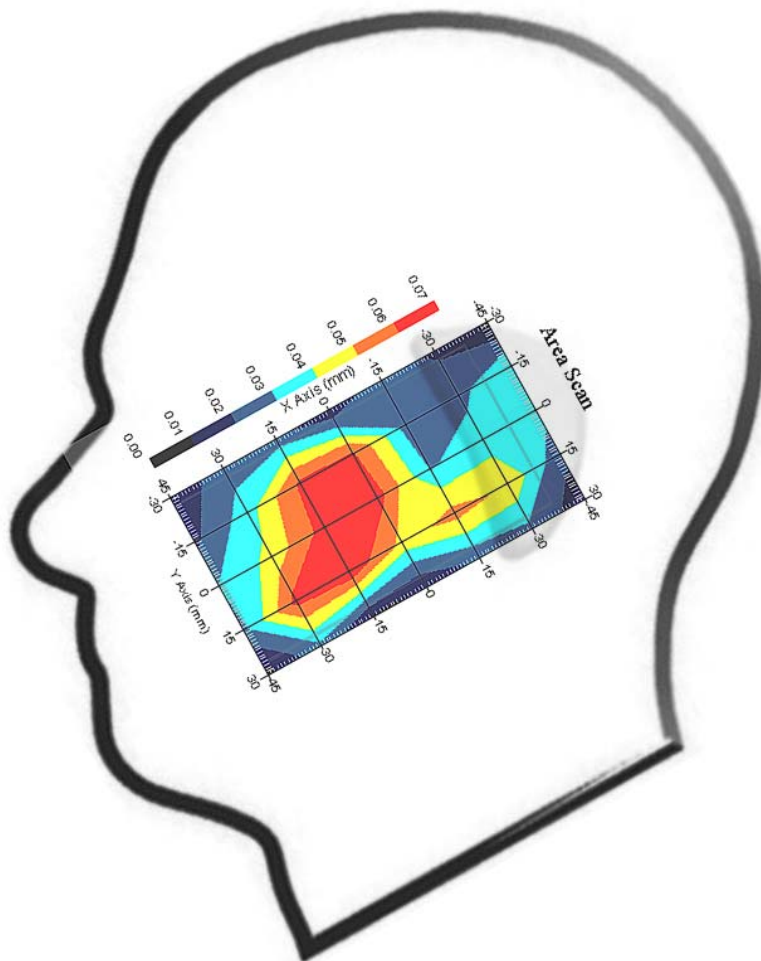
1 gram SAR value : 0.102 W/kg
 10 gram SAR value : 0.057 W/kg
 Area Scan Peak SAR : 0.113 W/kg
 Zoom Scan Peak SAR : 0.180 W/kg



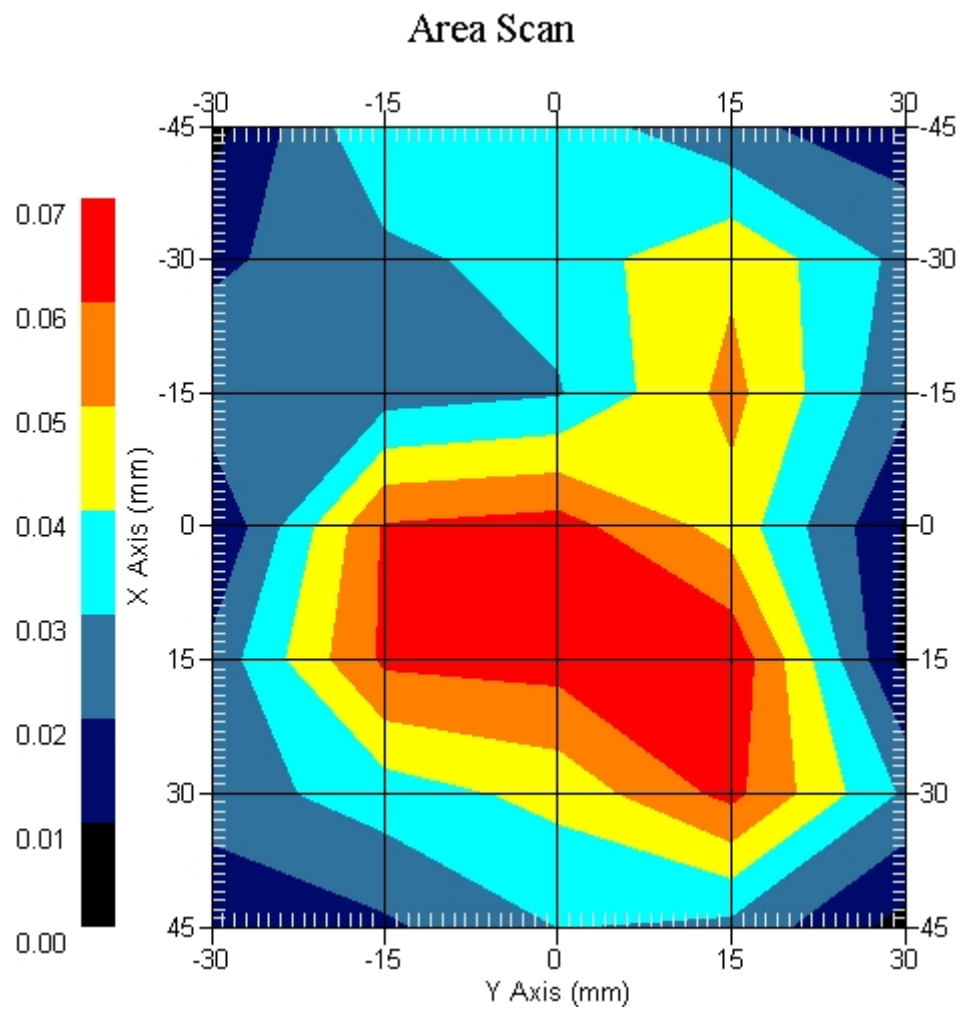
Measurement Data

Crest Factor : 8
 Tissue Temp. : 21.10 °C
 Ambient Temp. : 22.20 °C
 Area Scan : 7x5x1 : Measurement x=15mm, y=15mm, z=4mm
 Zoom Scan : 5x5x8 : Measurement x=8mm, y=8mm, z=4mm
 Power Drift-Start : 0.042 W/kg
 Power Drift-Finish: 0.040 W/kg
 Power Drift (%) : -4.761

DUT Position : Touch
 Channel : 810



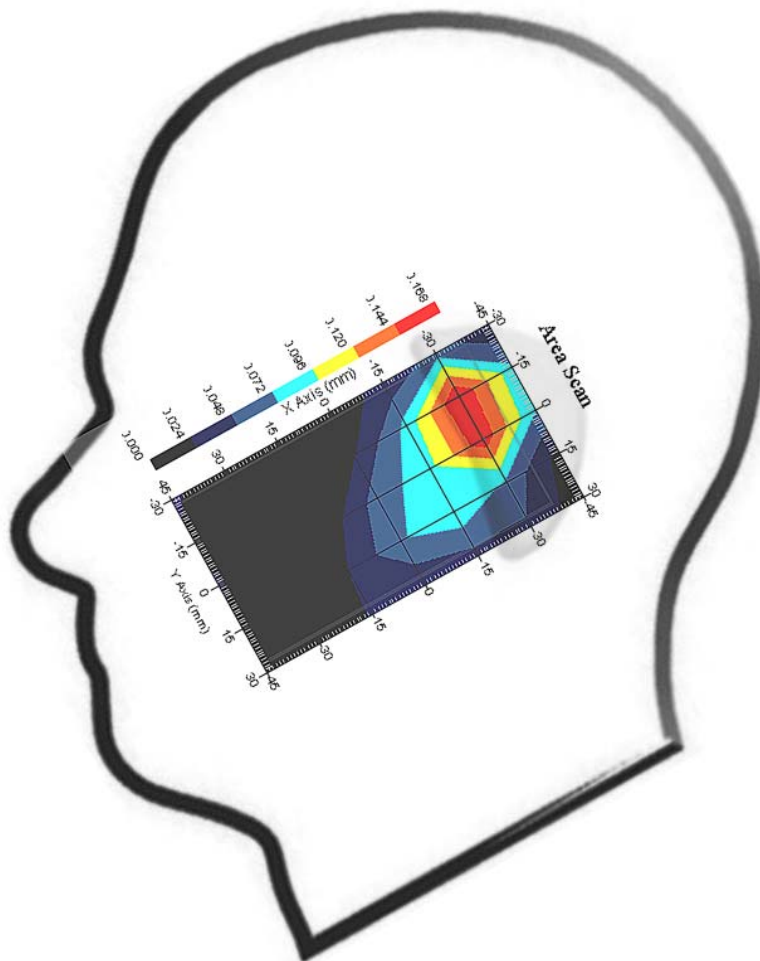
1 gram SAR value : 0.081 W/kg
 10 gram SAR value : 0.046 W/kg
 Area Scan Peak SAR : 0.068 W/kg
 Zoom Scan Peak SAR : 0.190 W/kg



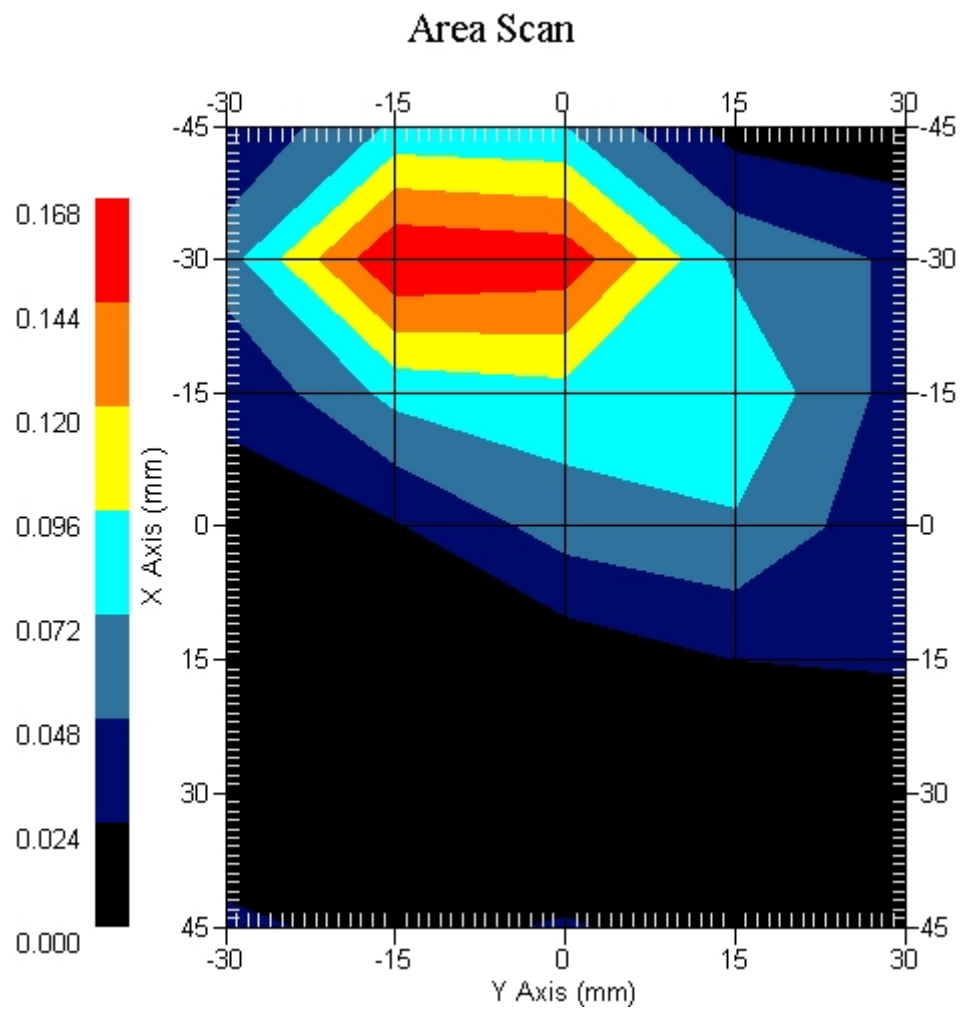
Measurement Data

Crest Factor : 8
 Tissue Temp. : 21.10 °C
 Ambient Temp. : 22.20 °C
 Area Scan : 7x5x1 : Measurement x=15mm, y=15mm, z=4mm
 Zoom Scan : 5x5x8 : Measurement x=8mm, y=8mm, z=4mm
 Power Drift-Start : 0.136 W/kg
 Power Drift-Finish: 0.133 W/kg
 Power Drift (%) : -2.205

DUT Position : 15° Tilt
 Channel : 512



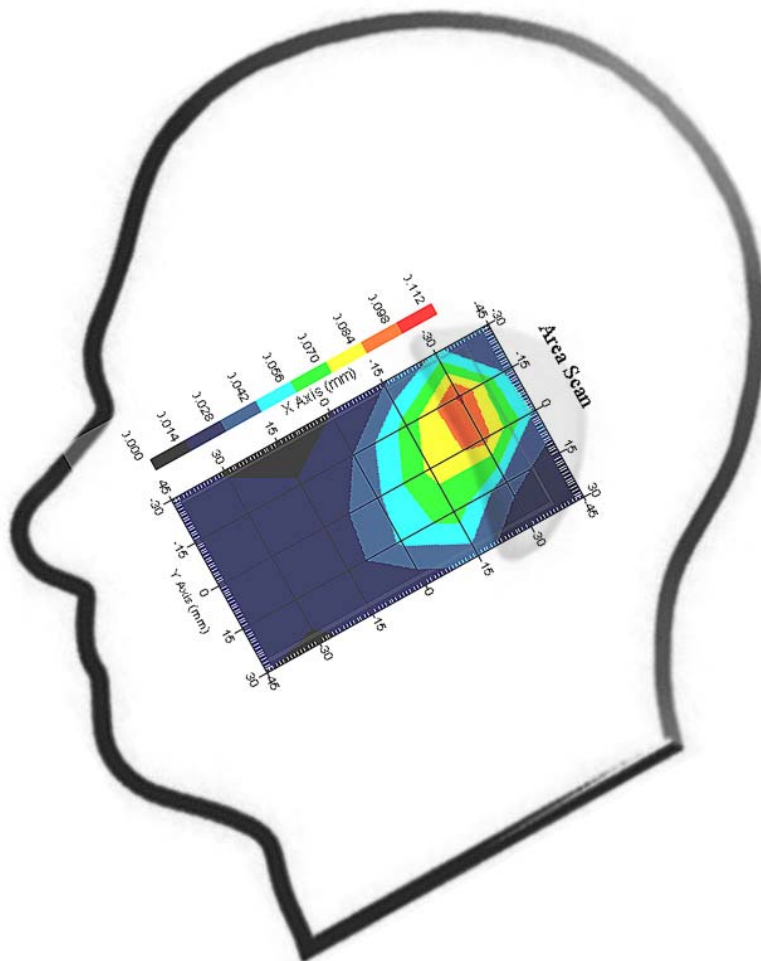
1 gram SAR value : 0.144 W/kg
 10 gram SAR value : 0.075 W/kg
 Area Scan Peak SAR : 0.168 W/kg
 Zoom Scan Peak SAR : 0.250 W/kg



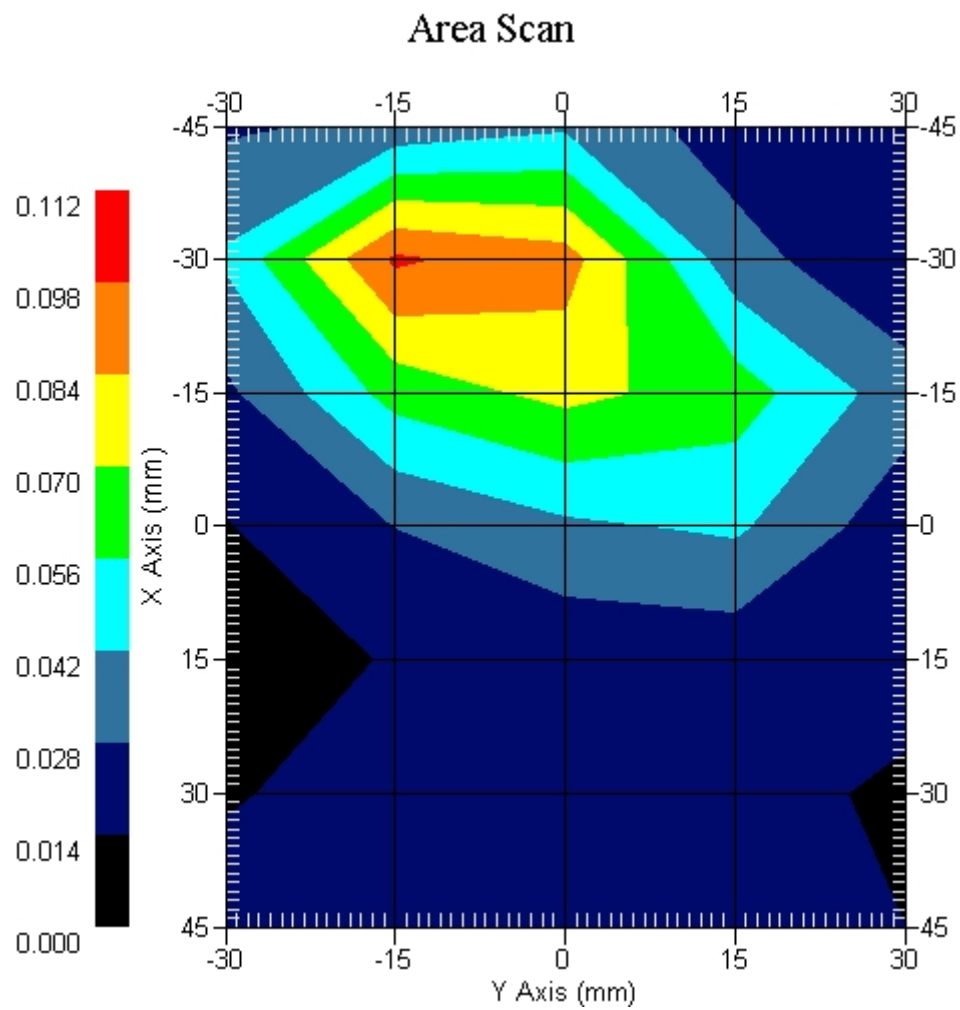
Measurement Data

Crest Factor : 8
 Tissue Temp. : 21.10 °C
 Ambient Temp. : 22.20 °C
 Area Scan : 7x5x1 : Measurement x=15mm, y=15mm, z=4mm
 Zoom Scan : 5x5x8 : Measurement x=8mm, y=8mm, z=4mm
 Power Drift-Start : 0.086 W/kg
 Power Drift-Finish: 0.090 W/kg
 Power Drift (%) : 4.651

DUT Position : 15° Tilt
 Channel : 661



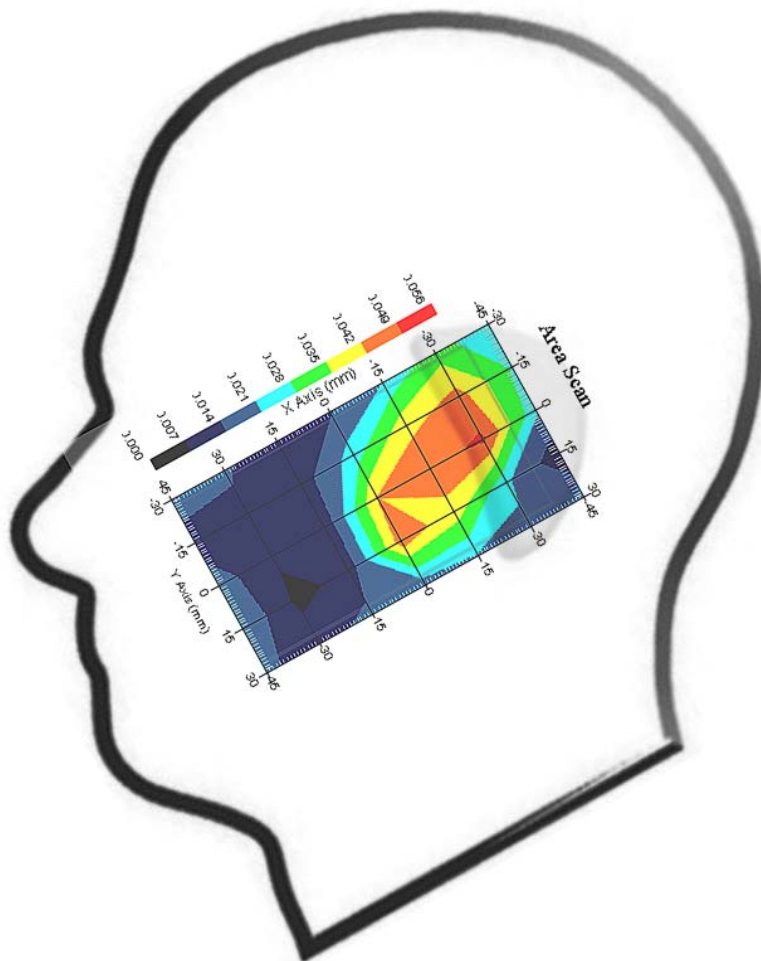
1 gram SAR value : 0.078 W/kg
 10 gram SAR value : 0.043 W/kg
 Area Scan Peak SAR : 0.100 W/kg
 Zoom Scan Peak SAR : 0.160 W/kg



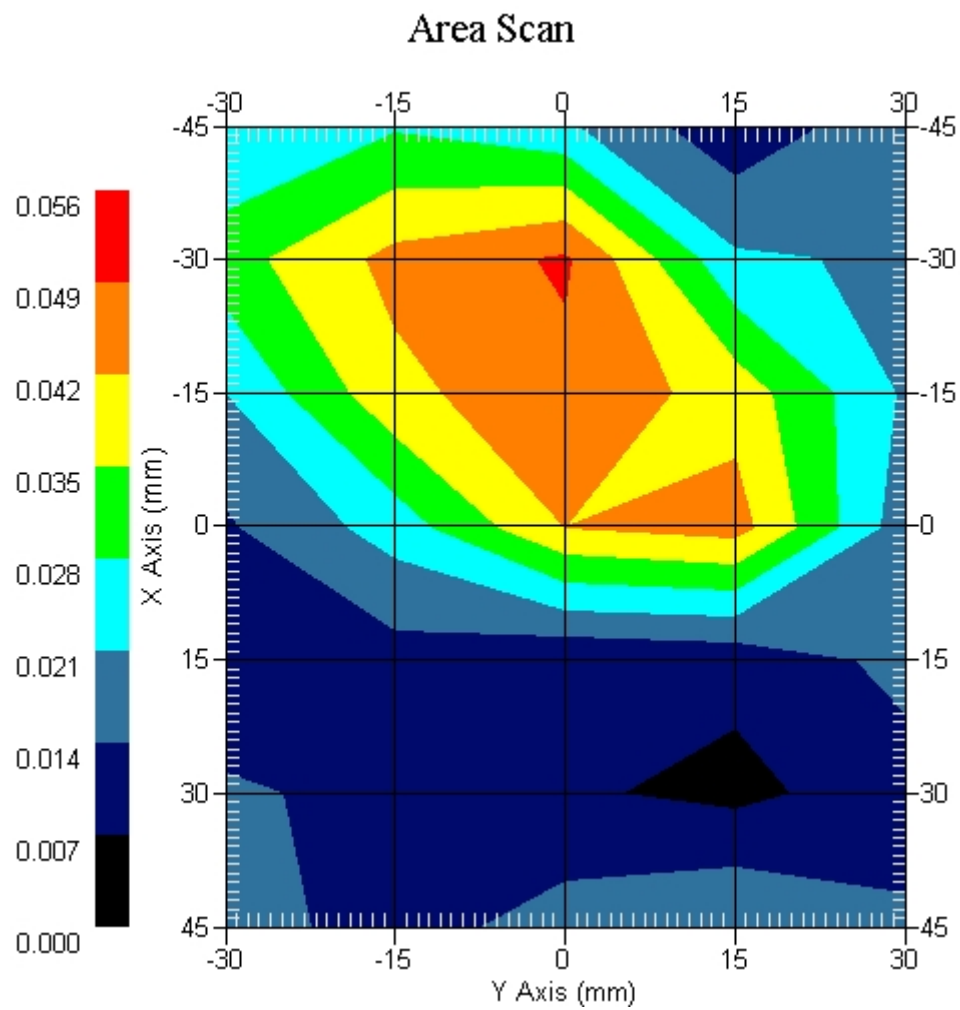
Measurement Data

Crest Factor : 8
 Tissue Temp. : 21.10 °C
 Ambient Temp. : 22.20 °C
 Area Scan : 7x5x1 : Measurement x=15mm, y=15mm, z=4mm
 Zoom Scan : 5x5x8 : Measurement x=8mm, y=8mm, z=4mm
 Power Drift-Start : 0.061 W/kg
 Power Drift-Finish: 0.059 W/kg
 Power Drift (%) : -3.167

DUT Position : 15° Tilt
 Channel : 810



1 gram SAR value : 0.053 W/kg
 10 gram SAR value : 0.048 W/kg
 Area Scan Peak SAR : 0.050 W/kg
 Zoom Scan Peak SAR : 0.090 W/kg



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SAR Test Report-PCS 1900

Report Date : 17-Apr-2009
Measurement Date : 17-Apr-2009

Product Data

Device Name : PHONEX
Type : Std Form Cell Phone
Model : PG220
Frequency : 1900.00 MHz
Max. Transmit Pwr : 1 W
Drift Time : 0 min(s)
Length : 99 mm
Width : 56 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 : 17-Apr-2009
Temperature : 21.10 °C
Ambient Temp. : 22.20 °C
Humidity : 53.00 RH%
Epsilon : 54.26 F/m
Sigma : 1.54 S/m
Density : 1000.00 kg/cu. m

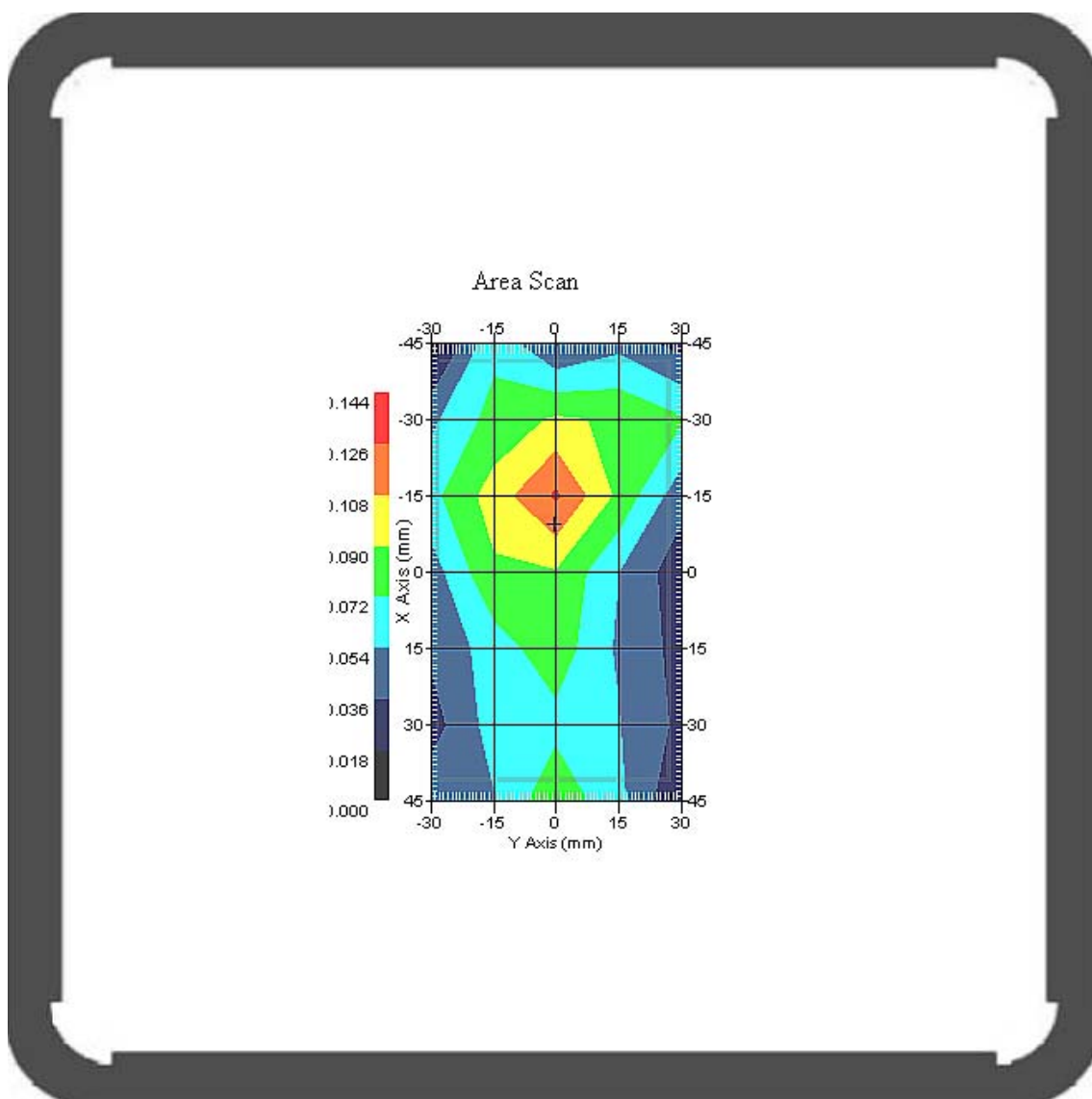
Probe Data

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

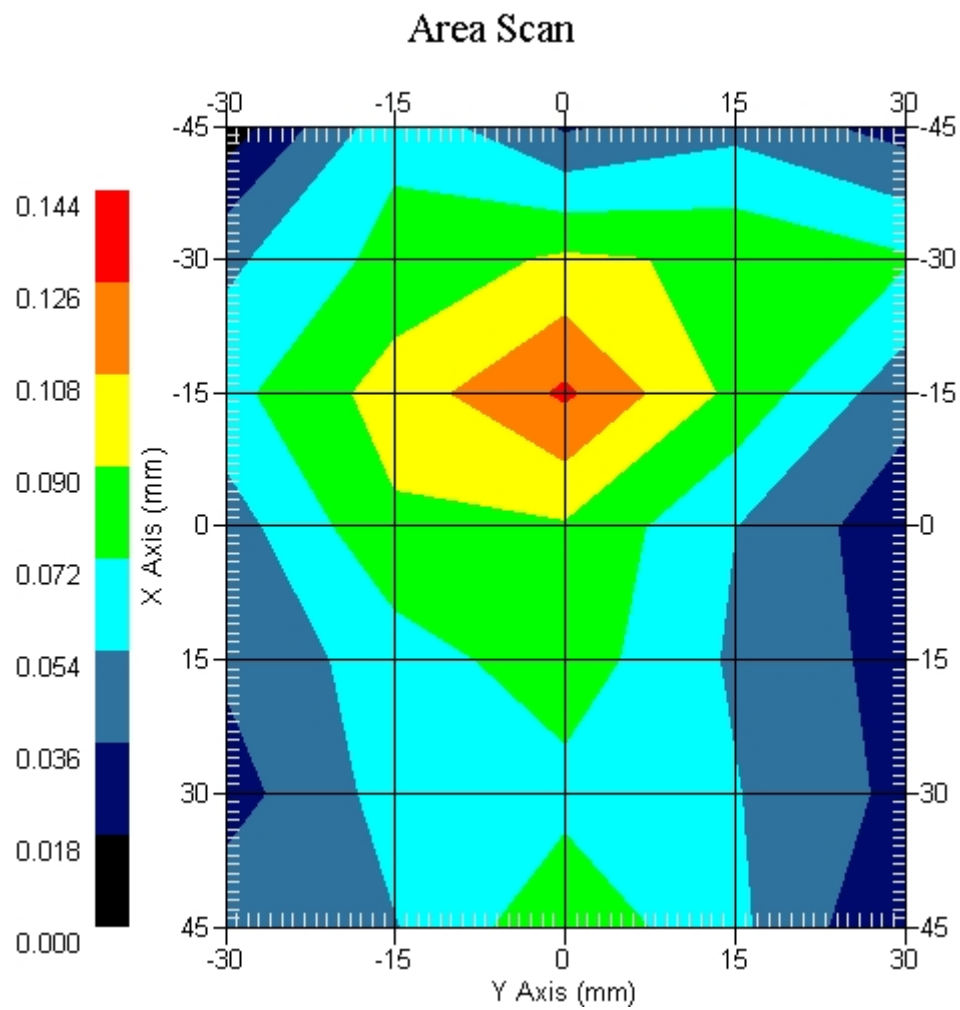
Measurement Data

Crest Factor : 8
 Tissue Temp. : 21.10 °C
 Ambient Temp. : 22.20 °C
 Area Scan : 7x5x1 : Measurement x=15mm, y=15mm, z=4mm
 Zoom Scan : 5x5x8 : Measurement x=8mm, y=8mm, z=4mm
 Power Drift-Start : 0.161 W/kg
 Power Drift-Finish: 0.158 W/kg
 Power Drift (%) : -1.863

DUT Position : Touch
 Channel : 512



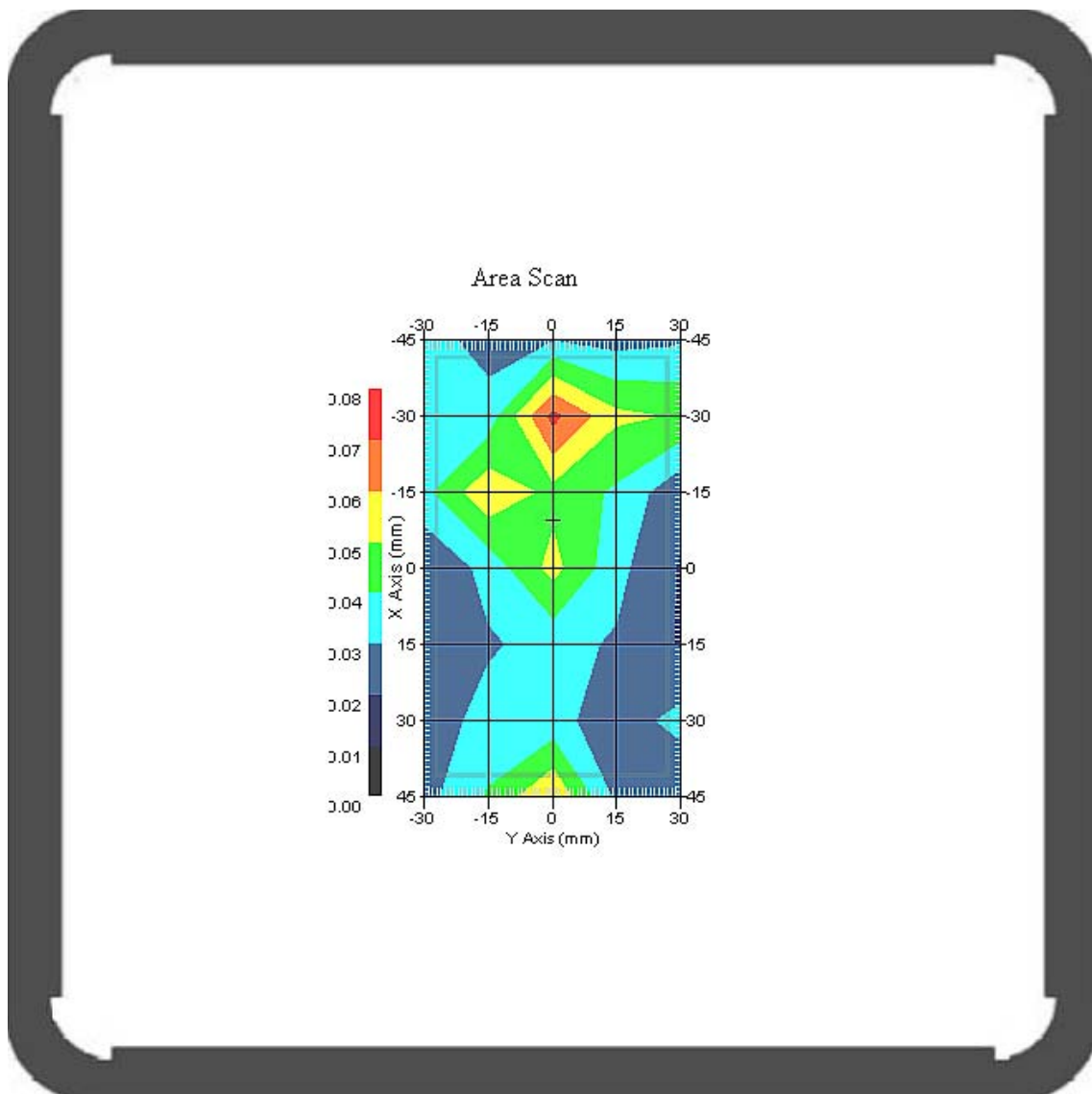
1 gram SAR value : 0.166 W/kg
 10 gram SAR value : 0.085 W/kg
 Area Scan Peak SAR : 0.129 W/kg
 Zoom Scan Peak SAR : 0.350 W/kg



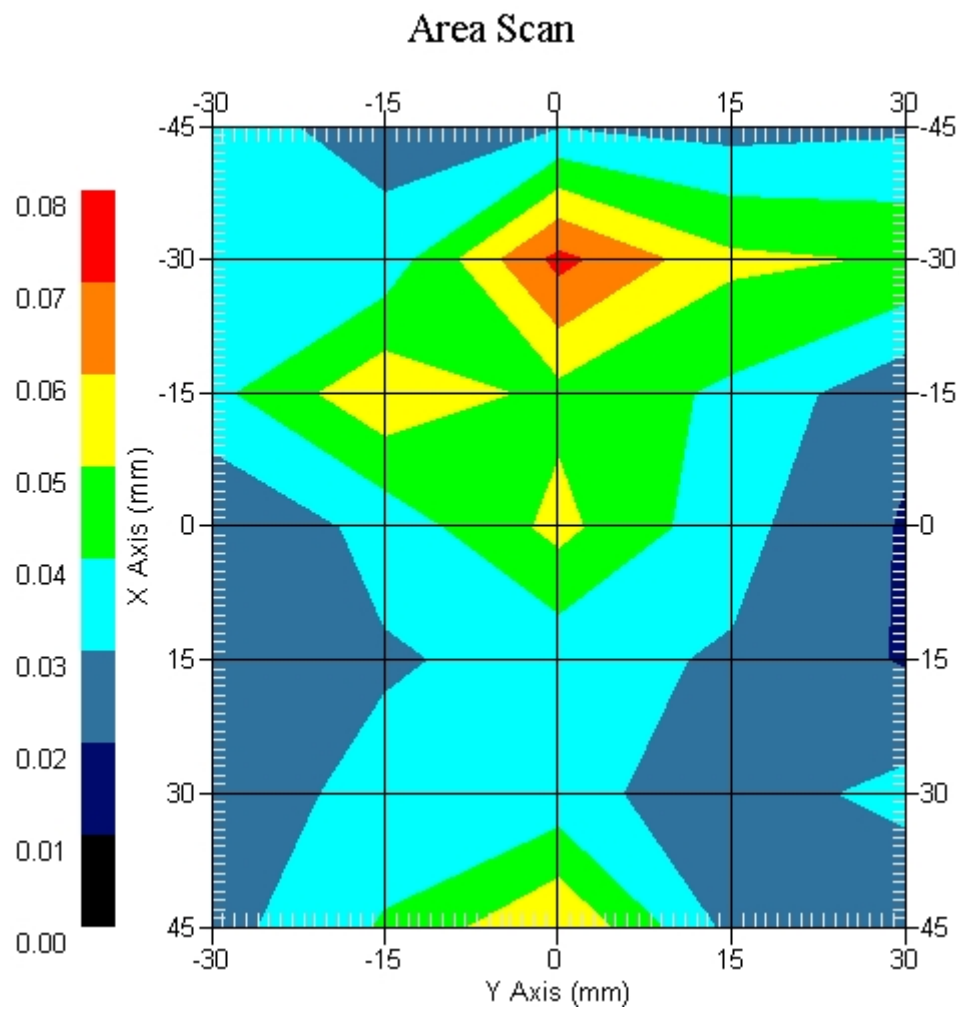
Measurement Data

Crest Factor : 8
 Tissue Temp. : 21.10 °C
 Ambient Temp. : 22.20 °C
 Area Scan : 7x5x1 : Measurement x=15mm, y=15mm, z=4mm
 Zoom Scan : 5x5x8 : Measurement x=8mm, y=8mm, z=4mm
 Power Drift-Start : 0.067 W/kg
 Power Drift-Finish: 0.066 W/kg
 Power Drift (%) : -2.017

DUT Position : Touch
 Channel : 661



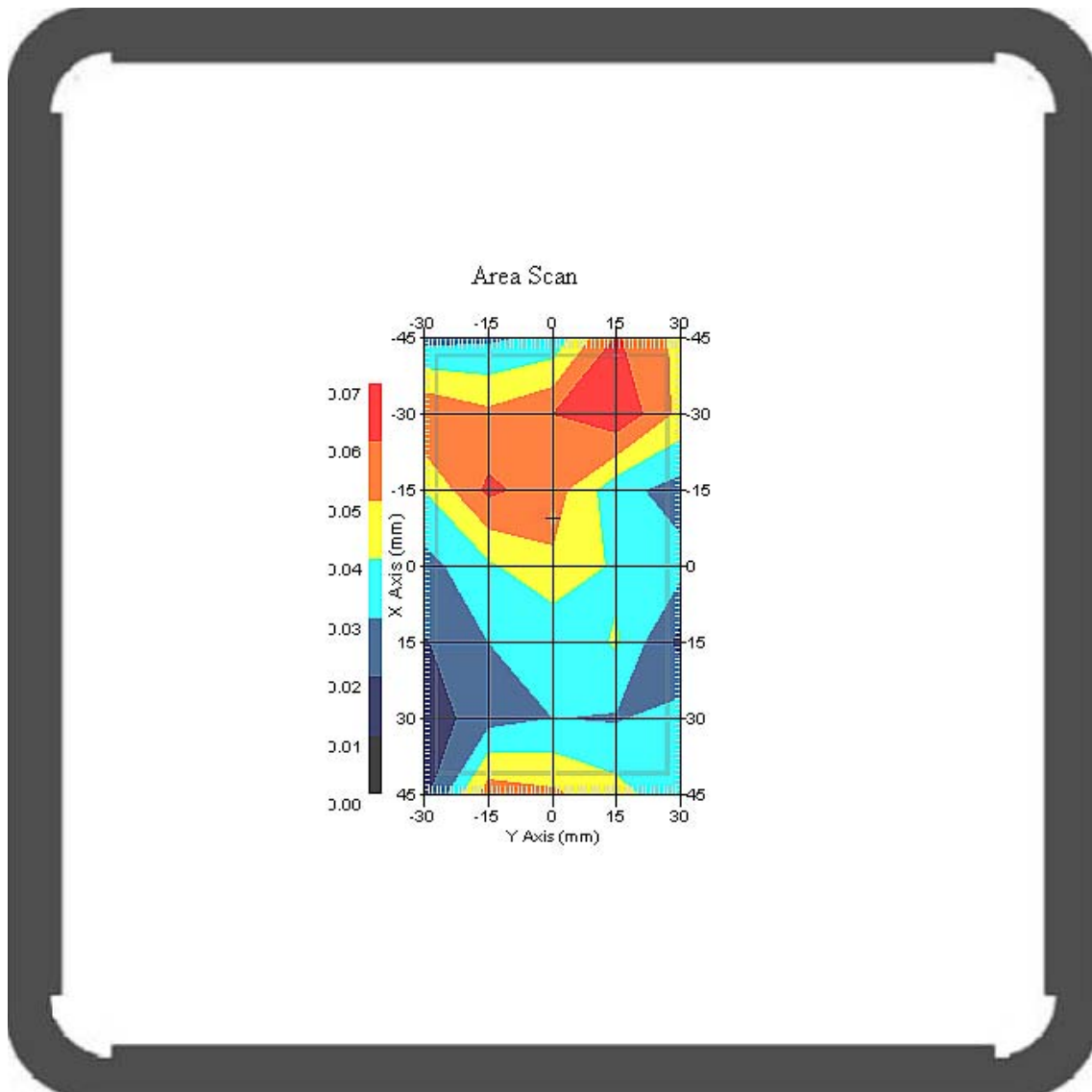
1 gram SAR value : 0.068 W/kg
 10 gram SAR value : 0.053 W/kg
 Area Scan Peak SAR : 0.073 W/kg
 Zoom Scan Peak SAR : 0.170 W/kg



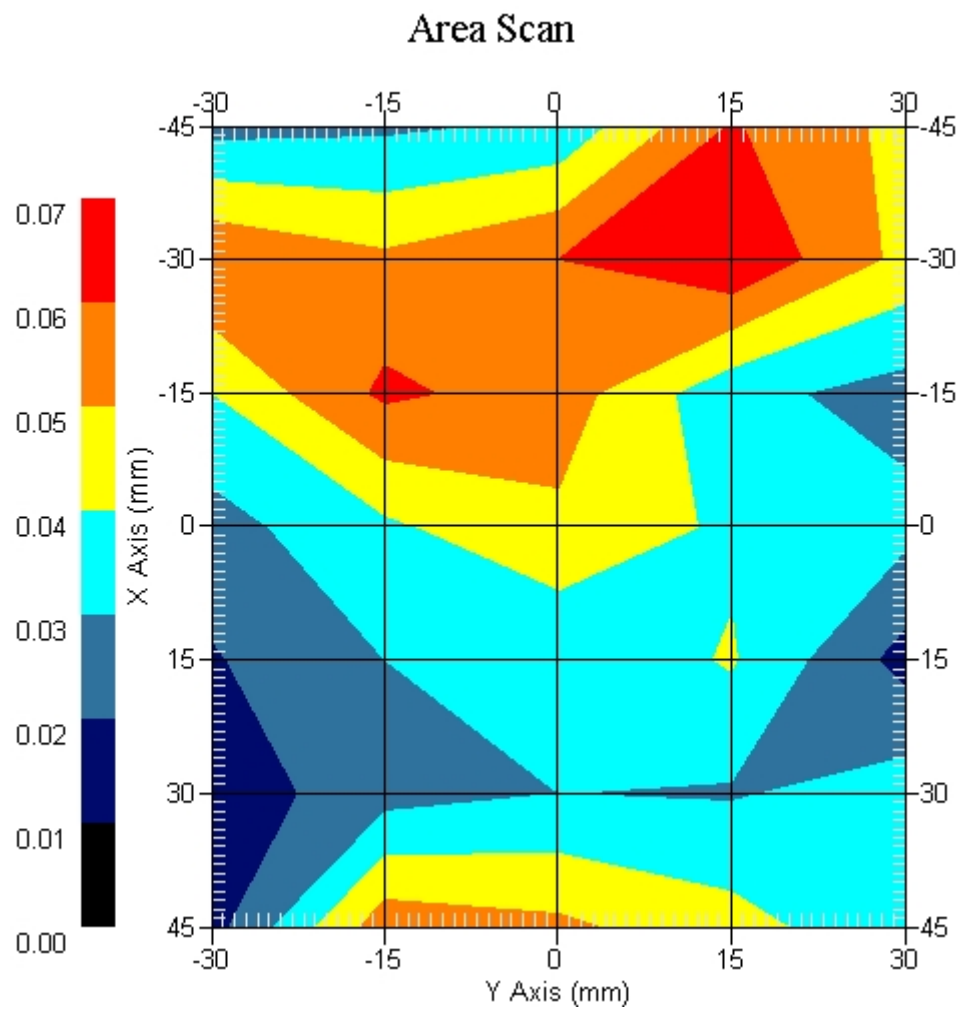
Measurement Data

Crest Factor : 8
 Tissue Temp. : 21.10 °C
 Ambient Temp. : 22.20 °C
 Area Scan : 7x5x1 : Measurement x=15mm, y=15mm, z=4mm
 Zoom Scan : 5x5x8 : Measurement x=8mm, y=8mm, z=4mm
 Power Drift-Start : 0.067 W/kg
 Power Drift-Finish: 0.065 W/kg
 Power Drift (%) : -2.985

DUT Position : Touch
 Channel : 810



1 gram SAR value : 0.067 W/kg
 10 gram SAR value : 0.041 W/kg
 Area Scan Peak SAR : 0.069 W/kg
 Zoom Scan Peak SAR : 0.975 W/kg



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SAR Test Report-PCS 1900 GPRS 2 Slot

Report Date : 17-Apr-2009
Measurement Date : 17-Apr-2009

Product Data

Device Name : PHONEX
Type : Std Form Cell Phone
Model : PG220
Frequency : 1900.00 MHz
Max. Transmit Pwr : 1 W
Drift Time : 0 min(s)
Length : 99 mm
Width : 56 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 : 17-Apr-2009
Temperature : 21.10 °C
Ambient Temp. : 22.20 °C
Humidity : 53.00 RH%
Epsilon : 54.26 F/m
Sigma : 1.54 S/m
Density : 1000.00 kg/cu. m

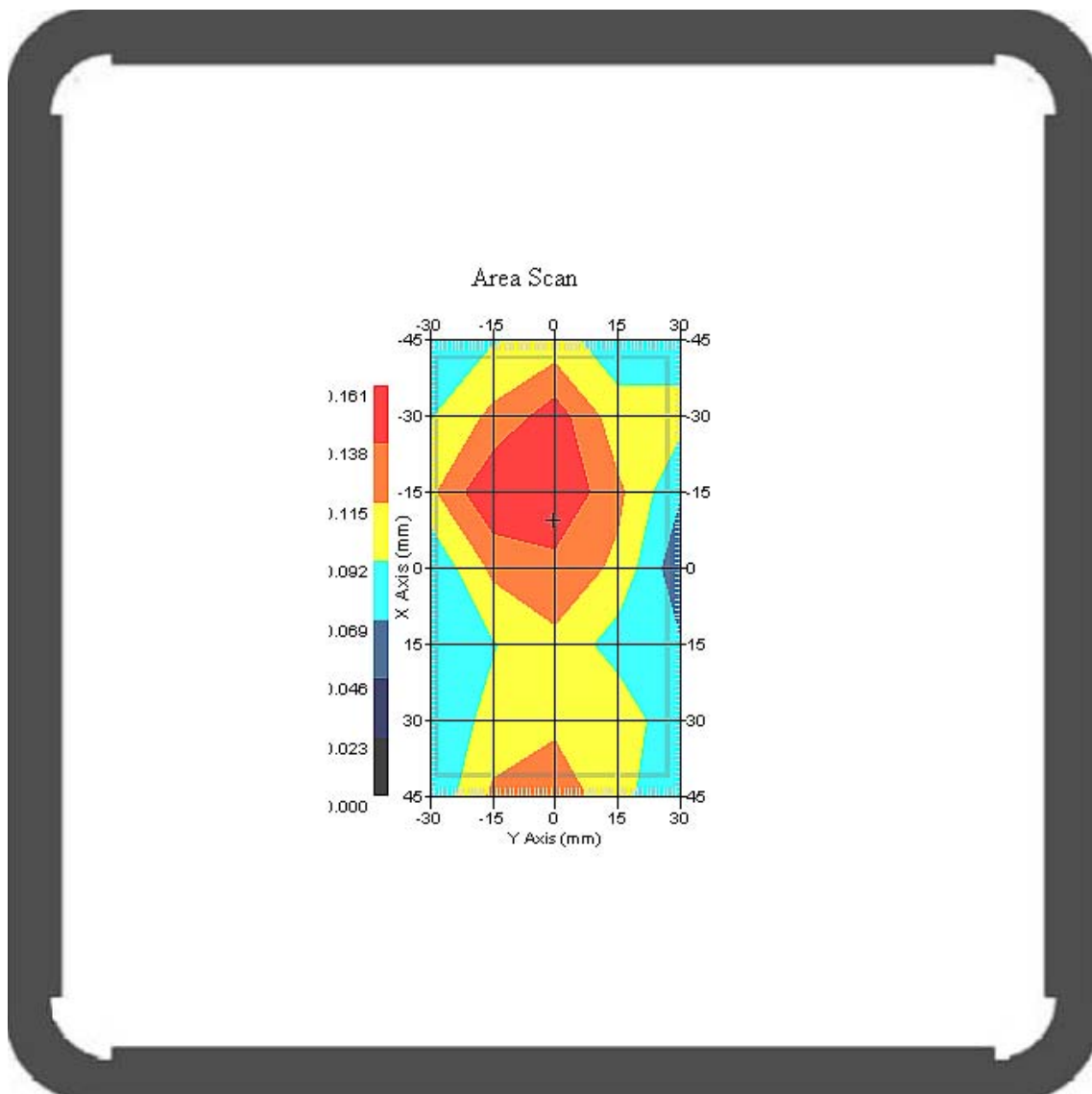
Probe Data

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: 4
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

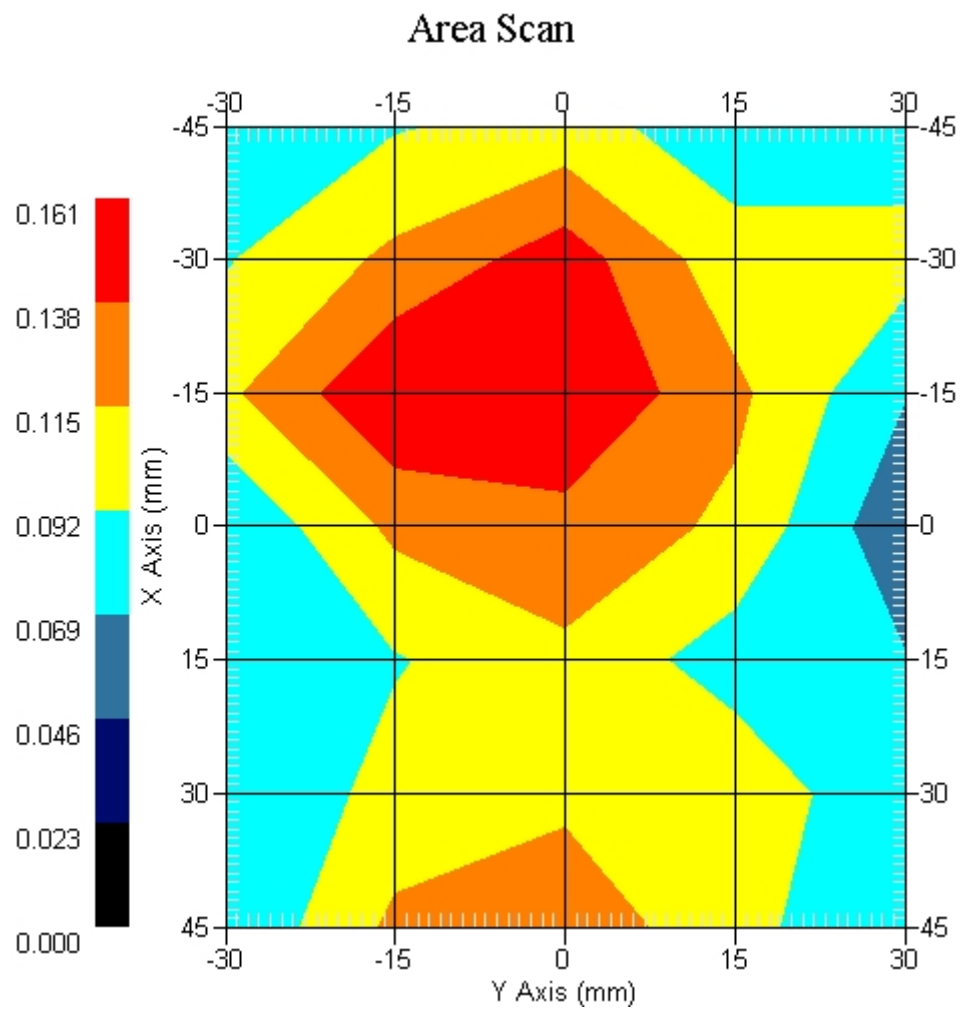
Measurement Data

Crest Factor : 4
 Tissue Temp. : 21.10 °C
 Ambient Temp. : 22.20 °C
 Area Scan : 7x5x1 : Measurement x=15mm, y=15mm, z=4mm
 Zoom Scan : 5x5x8 : Measurement x=8mm, y=8mm, z=4mm
 Power Drift-Start : 0.148 W/kg
 Power Drift-Finish: 0.144 W/kg
 Power Drift (%) : -2.702

DUT Position : Touch
 Channel : 661



1 gram SAR value : 0.157 W/kg
 10 gram SAR value : 0.113 W/kg
 Area Scan Peak SAR : 0.160 W/kg
 Zoom Scan Peak SAR : 0.294 W/kg



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SAR Test Report- PCS 1900 GPRS 3 Slot

Report Date : 17-Apr-2009
Measurement Date : 17-Apr-2009

Product Data

Device Name : PHONEX
Type : Std Form Cell Phone
Model : PG220
Frequency : 1900.00 MHz
Max. Transmit Pwr : 1 W
Drift Time : 0 min(s)
Length : 99 mm
Width : 56 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 : 17-Apr-2009
Temperature : 21.10 °C
Ambient Temp. : 22.20 °C
Humidity : 53.00 RH%
Epsilon : 54.26 F/m
Sigma : 1.54 S/m
Density : 1000.00 kg/cu. m

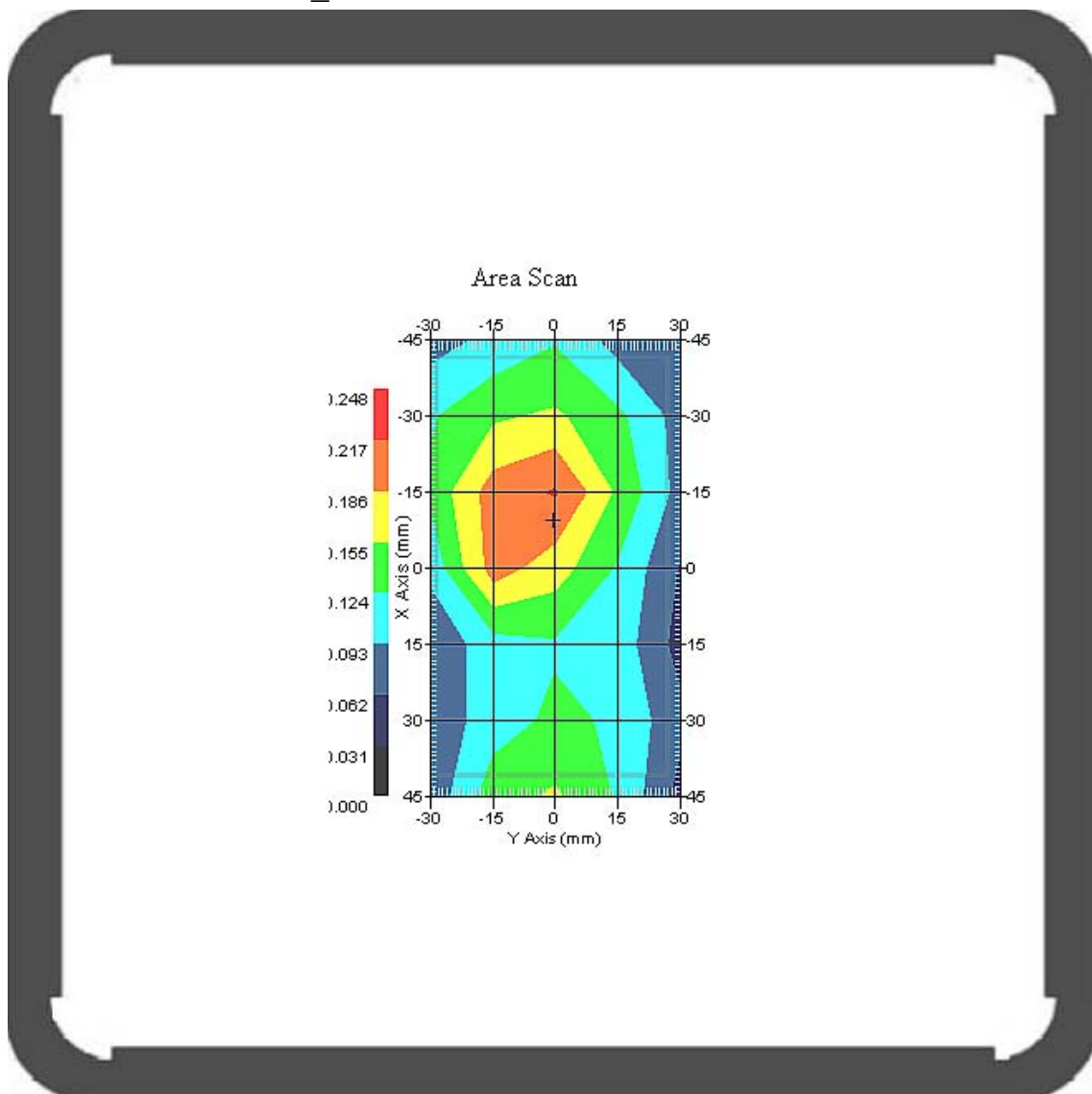
Probe Data

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: 2.66
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

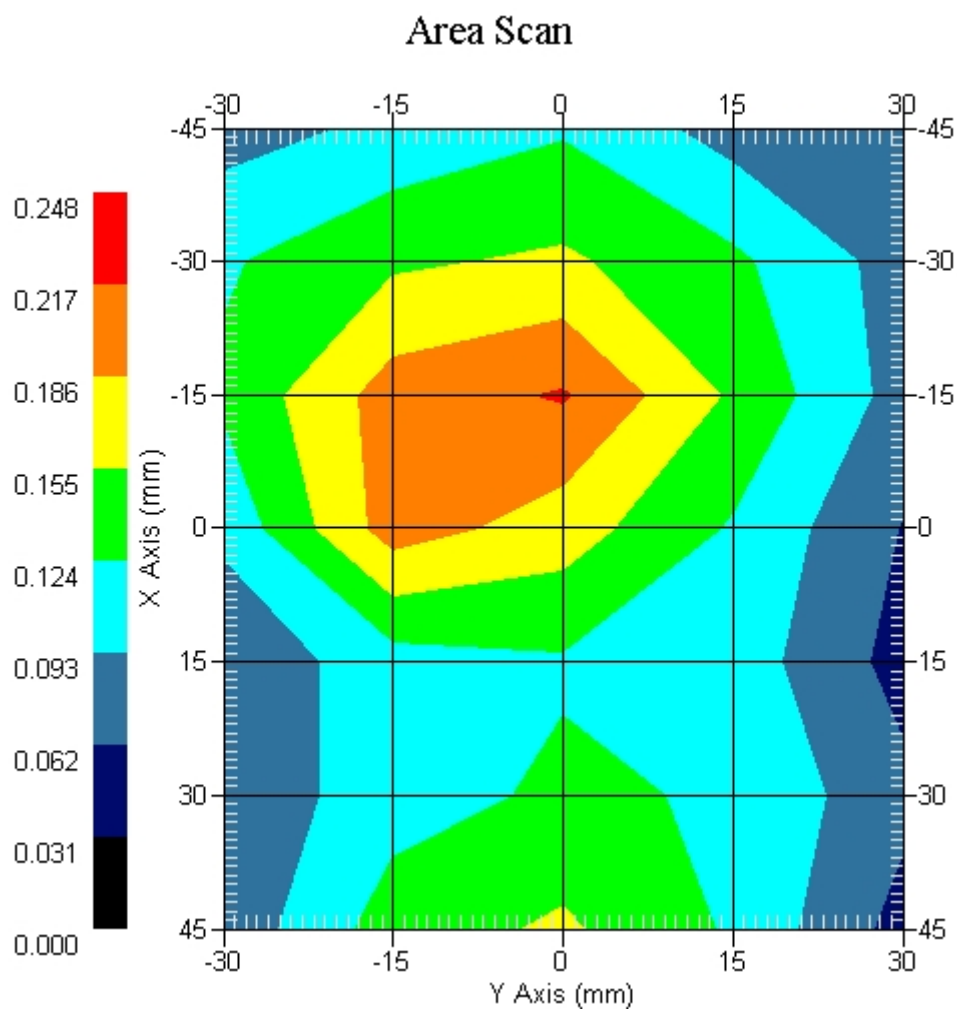
Measurement Data

Crest Factor : 2.66
 Tissue Temp. : 21.10 °C
 Ambient Temp. : 22.20 °C
 Area Scan : 7x5x1 : Measurement x=15mm, y=15mm, z=4mm
 Zoom Scan : 5x5x8 : Measurement x=8mm, y=8mm, z=4mm
 Power Drift-Start : 0.205 W/kg
 Power Drift-Finish: 0.213 W/kg
 Power Drift (%) : 3.902

DUT Position : Touch
 Channel : 661_



1 gram SAR value : 0.208 W/kg
 10 gram SAR value : 0.164 W/kg
 Area Scan Peak SAR : 0.220 W/kg
 Zoom Scan Peak SAR : 0.382 W/kg



ALSAS-10U VER 2.3.6 APREL Laboratories

SAR Test Report- PCS 1900 GPRS 4 Slot

Report Date : 17-Apr-2009
Measurement Date : 17-Apr-2009

Product Data

Device Name : PHONEX
Type : Std Form Cell Phone
Model : PG220
Frequency : 1900.00 MHz
Max. Transmit Pwr : 1 W
Drift Time : 0 min(s)
Length : 99 mm
Width : 56 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 : 17-Apr-2009
Temperature : 21.10 °C
Ambient Temp. : 22.20 °C
Humidity : 53.00 RH%
Epsilon : 54.26 F/m
Sigma : 1.54 S/m
Density : 1000.00 kg/cu. m

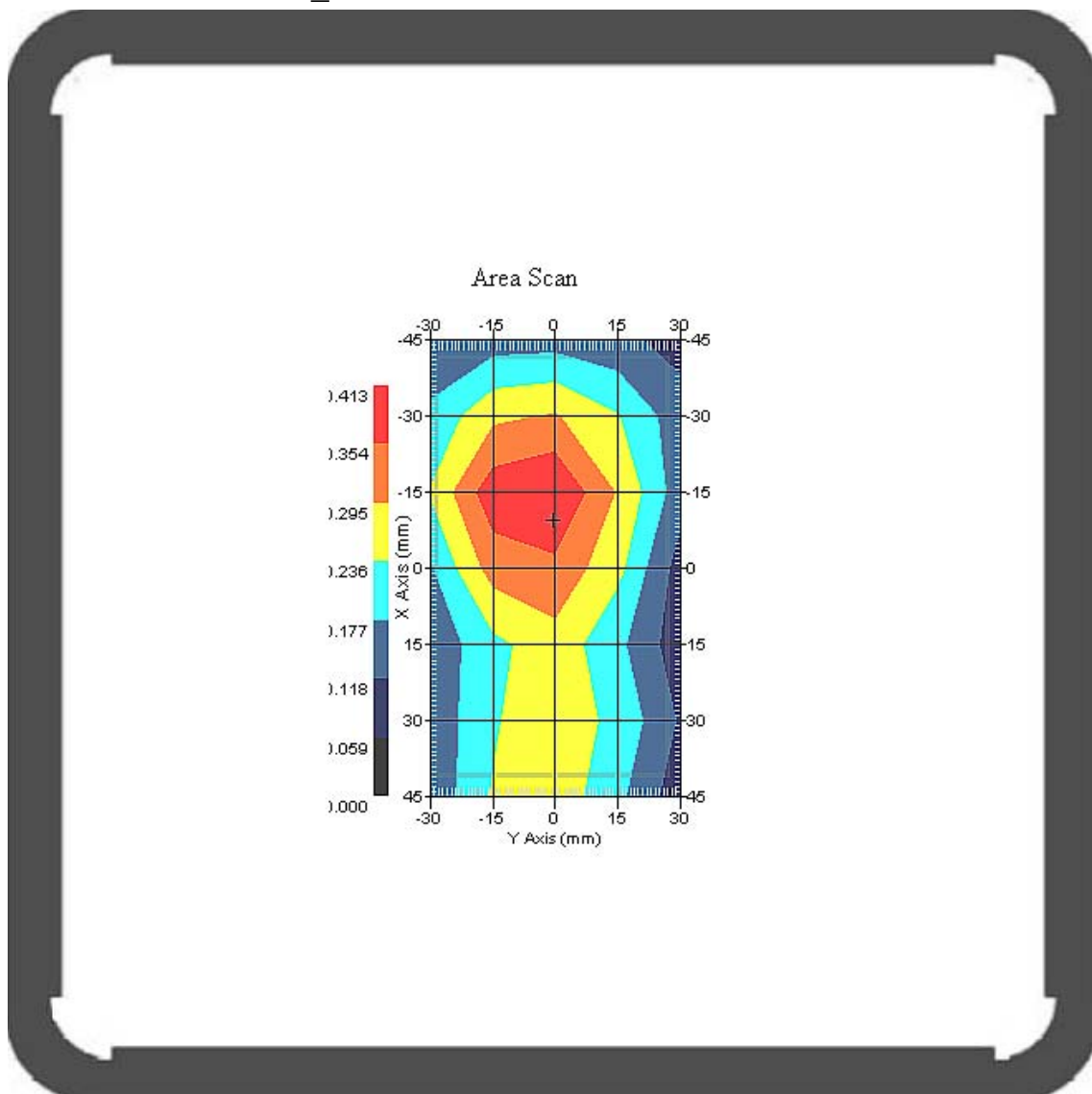
Probe Data

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: 2
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

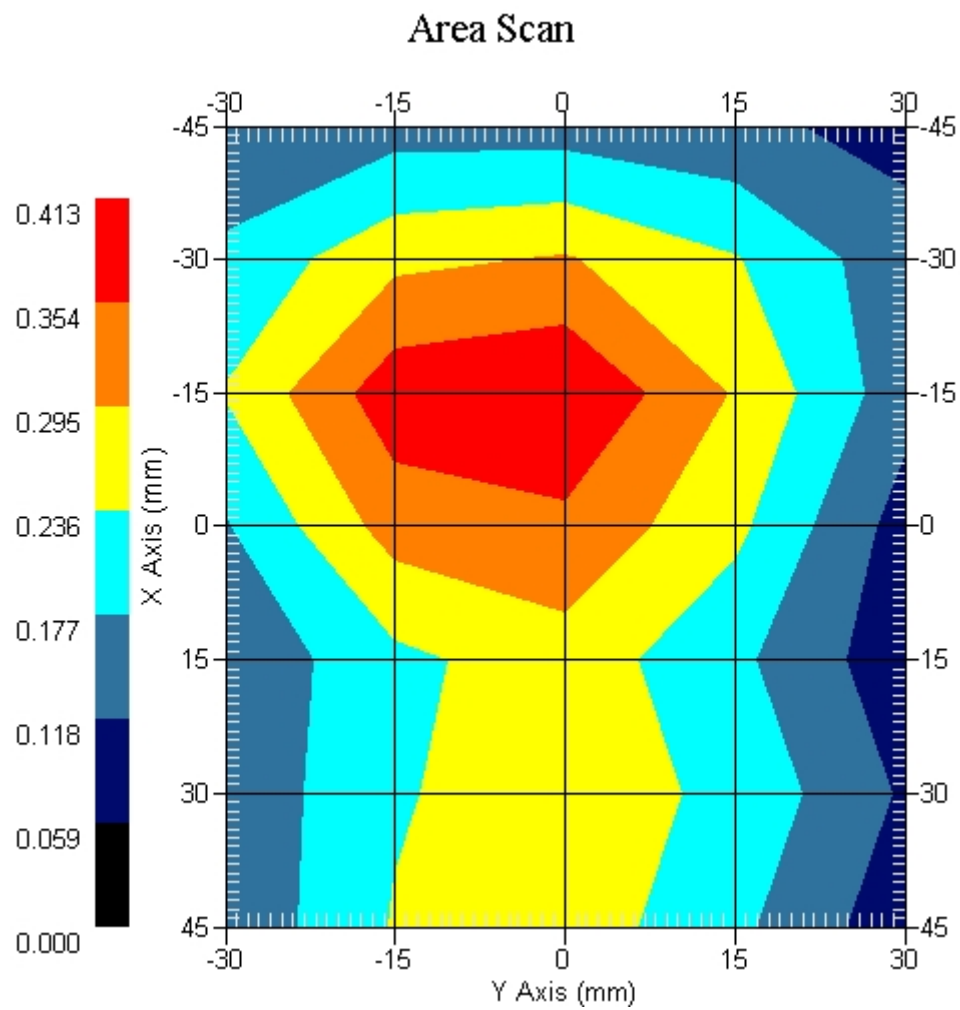
Measurement Data

Crest Factor : 2
 Tissue Temp. : 21.10 °C
 Ambient Temp. : 22.20 °C
 Area Scan : 7x5x1 : Measurement x=15mm, y=15mm, z=4mm
 Zoom Scan : 5x5x8 : Measurement x=8mm, y=8mm, z=4mm
 Power Drift-Start : 0.411 W/kg
 Power Drift-Finish: 0.428 W/kg
 Power Drift (%) : 4.054

DUT Position : Touch
 Channel : 512_



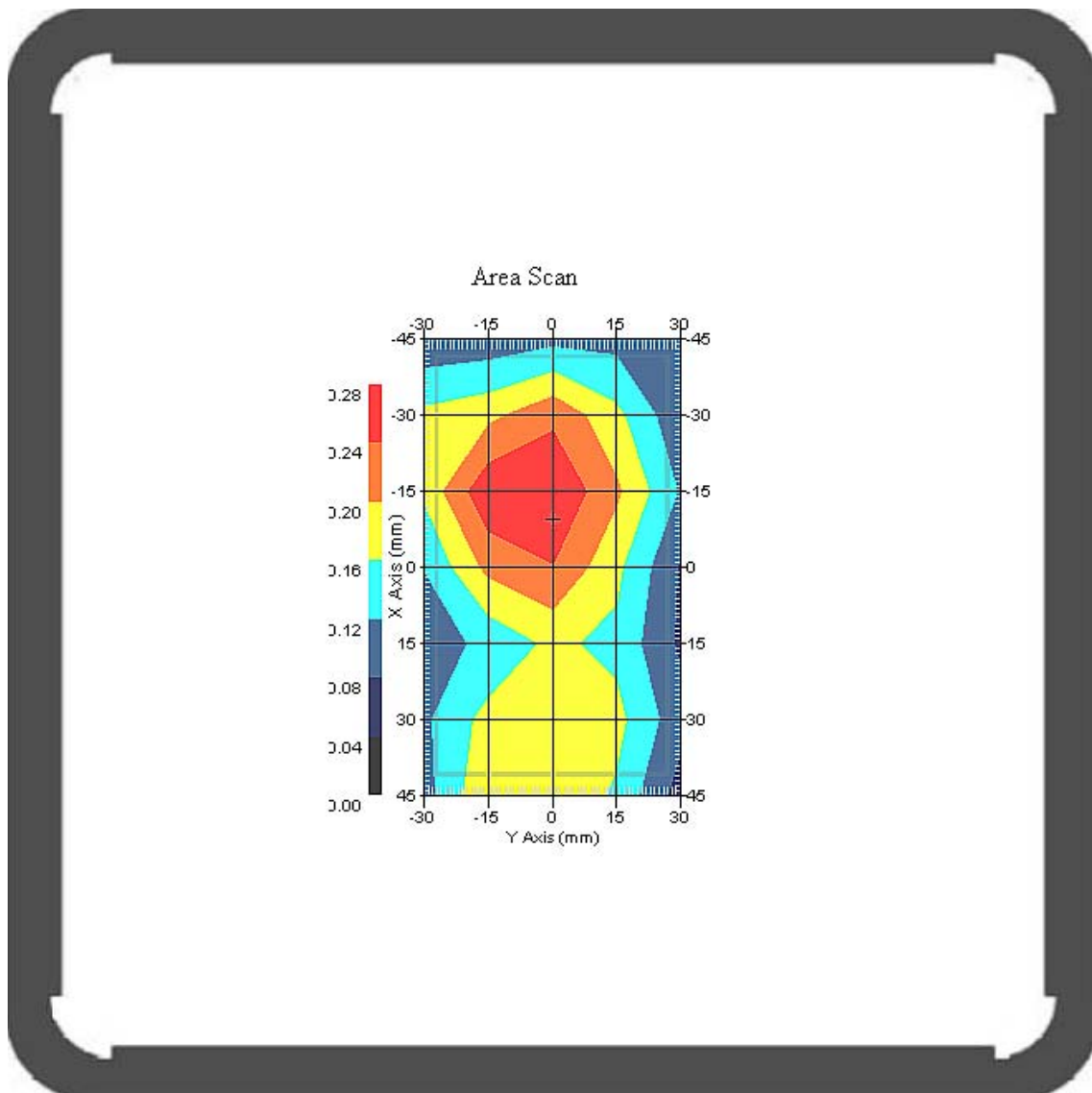
1 gram SAR value : 0.403 W/kg
 10 gram SAR value : 0.346 W/kg
 Area Scan Peak SAR : 0.410 W/kg
 Zoom Scan Peak SAR : 0.778 W/kg



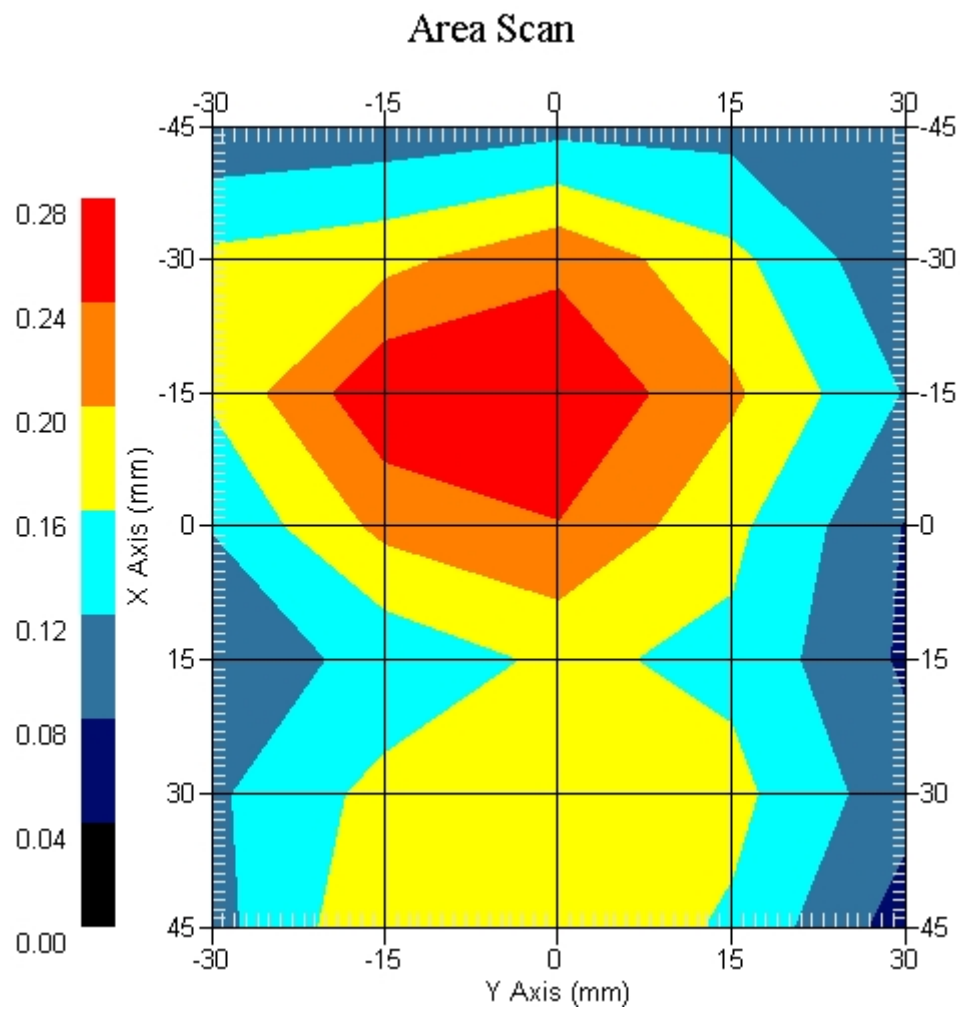
Measurement Data

Crest Factor : 2
 Tissue Temp. : 21.10 °C
 Ambient Temp. : 22.20 °C
 Area Scan : 7x5x1 : Measurement x=15mm, y=15mm, z=4mm
 Zoom Scan : 5x5x8 : Measurement x=8mm, y=8mm, z=4mm
 Power Drift-Start : 0.269 W/kg
 Power Drift-Finish: 0.274 W/kg
 Power Drift (%) : 1.967

DUT Position : Touch
 Channel : 661



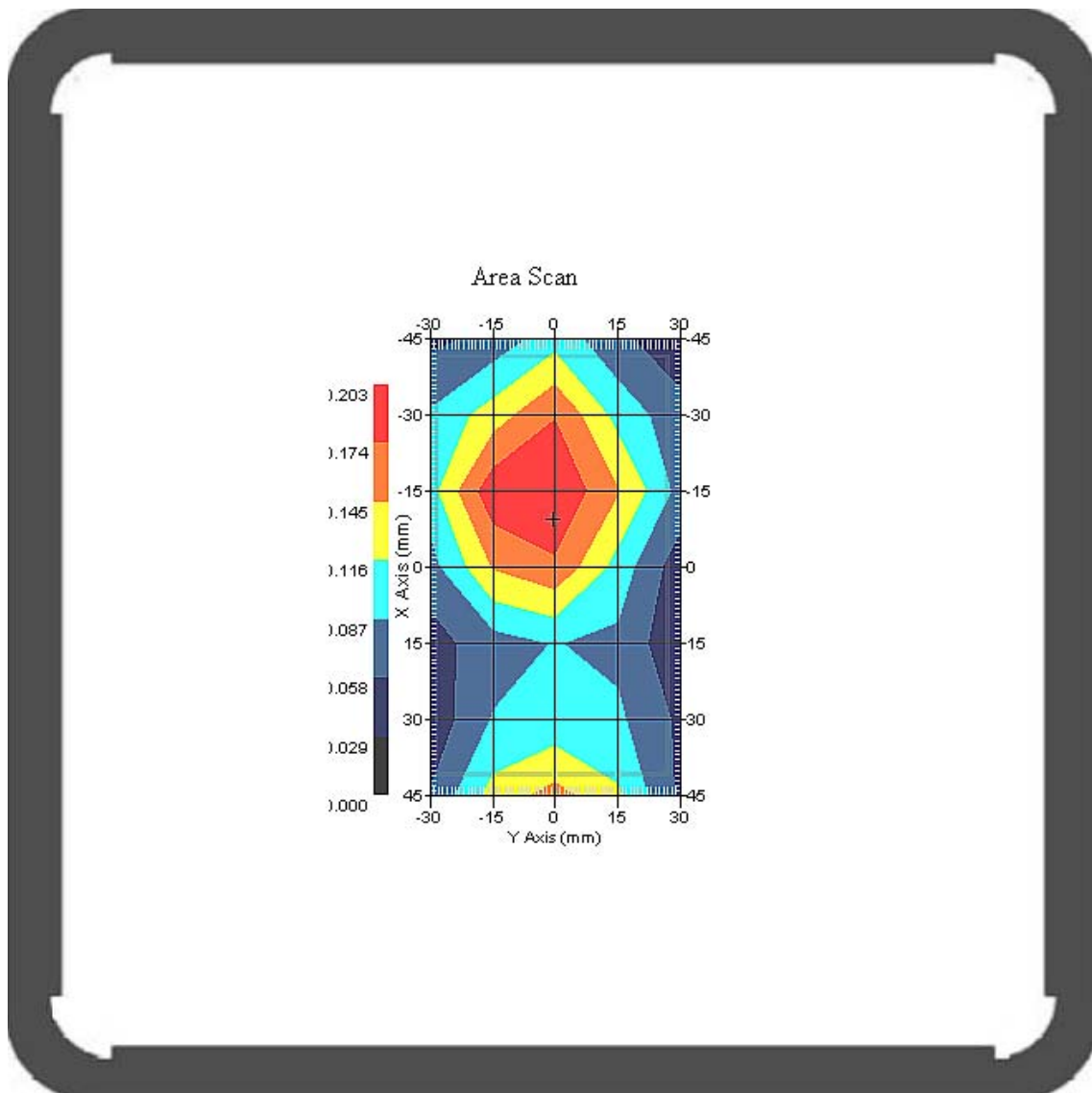
1 gram SAR value : 0.272 W/kg
 10 gram SAR value : 0.171 W/kg
 Area Scan Peak SAR : 0.277 W/kg
 Zoom Scan Peak SAR : 0.420 W/kg



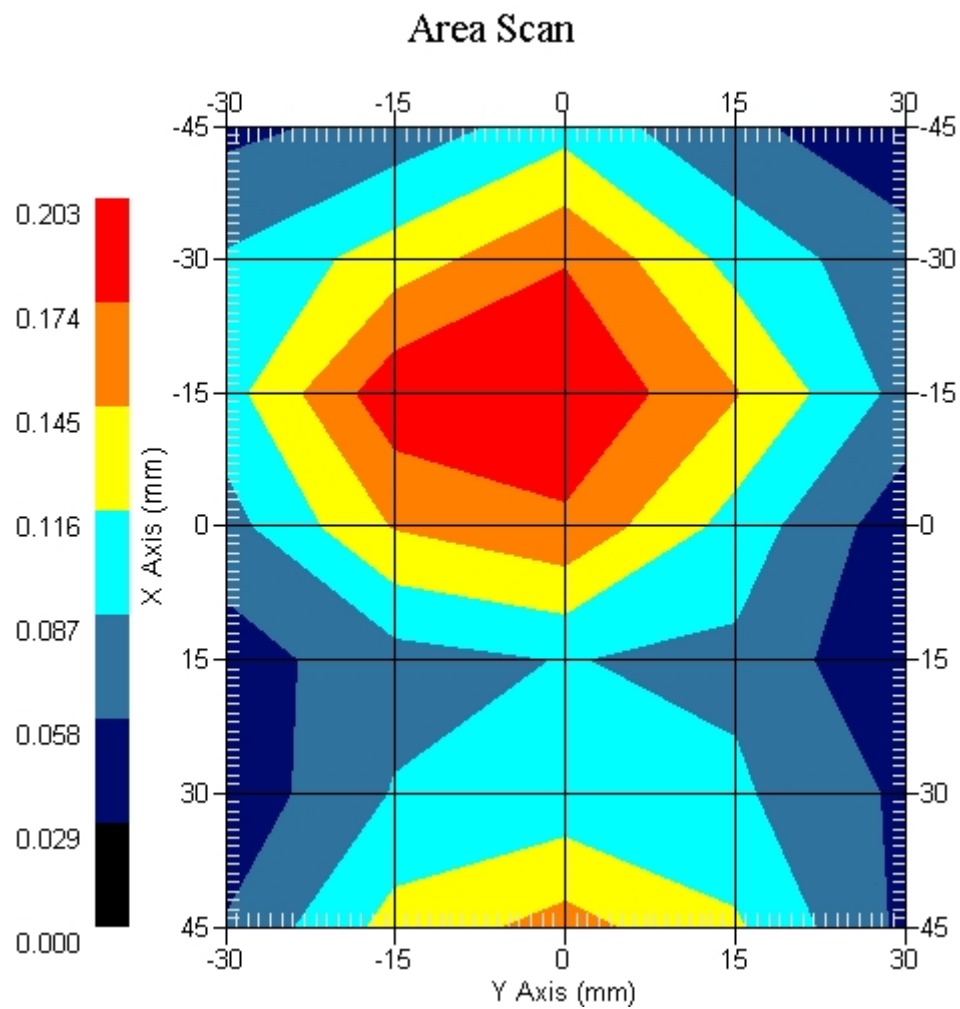
Measurement Data

Crest Factor : 2
 Tissue Temp. : 21.10 °C
 Ambient Temp. : 22.20 °C
 Area Scan : 7x5x1 : Measurement x=15mm, y=15mm, z=4mm
 Zoom Scan : 5x5x8 : Measurement x=8mm, y=8mm, z=4mm
 Power Drift-Start : 0.210 W/kg
 Power Drift-Finish: 0.217 W/kg
 Power Drift (%) : 3.333

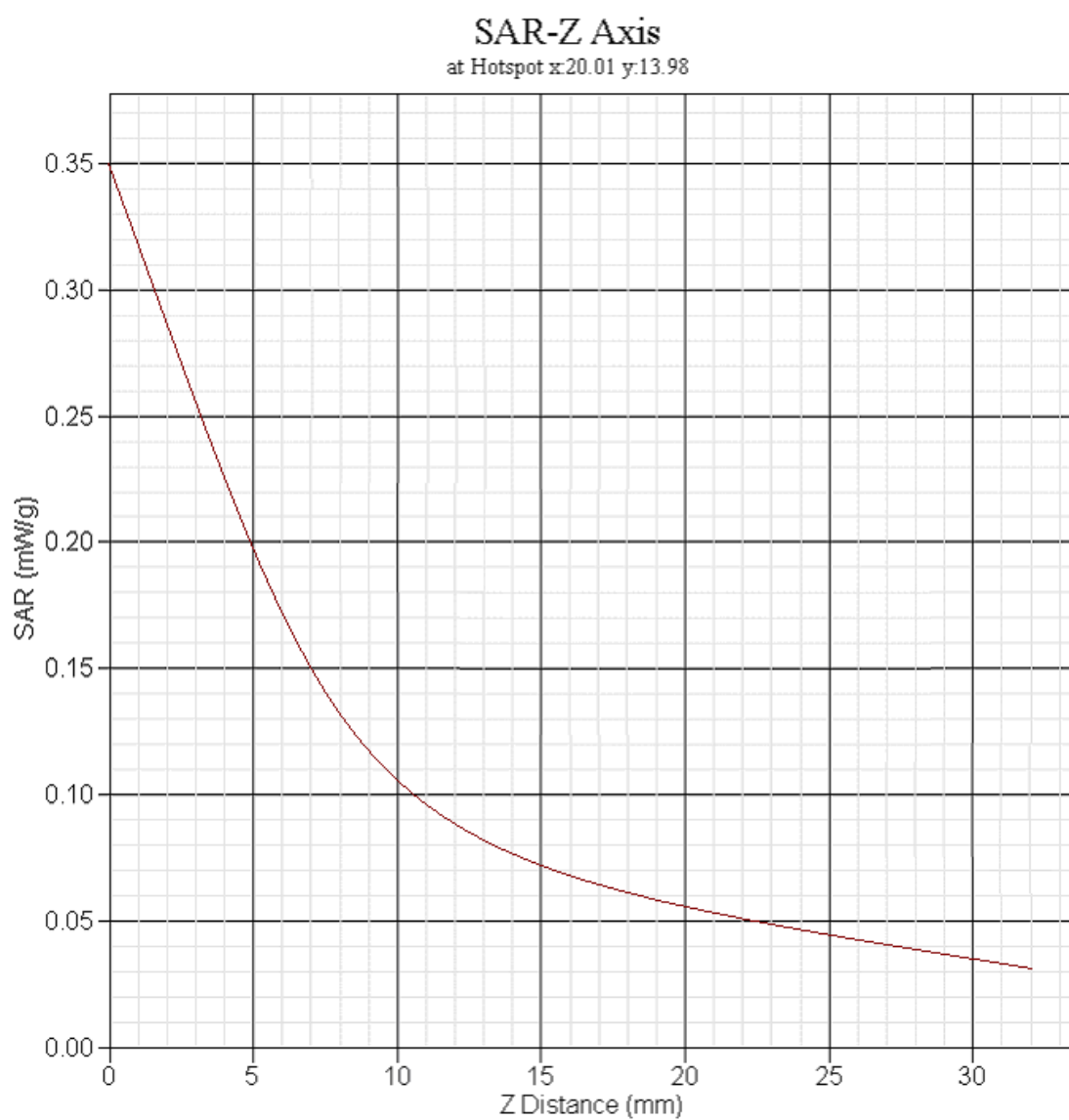
DUT Position : Touch
 Channel : 810



1 gram SAR value : 0.221 W/kg
 10 gram SAR value : 0.150 W/kg
 Area Scan Peak SAR : 0.201 W/kg
 Zoom Scan Peak SAR : 0.370 W/kg



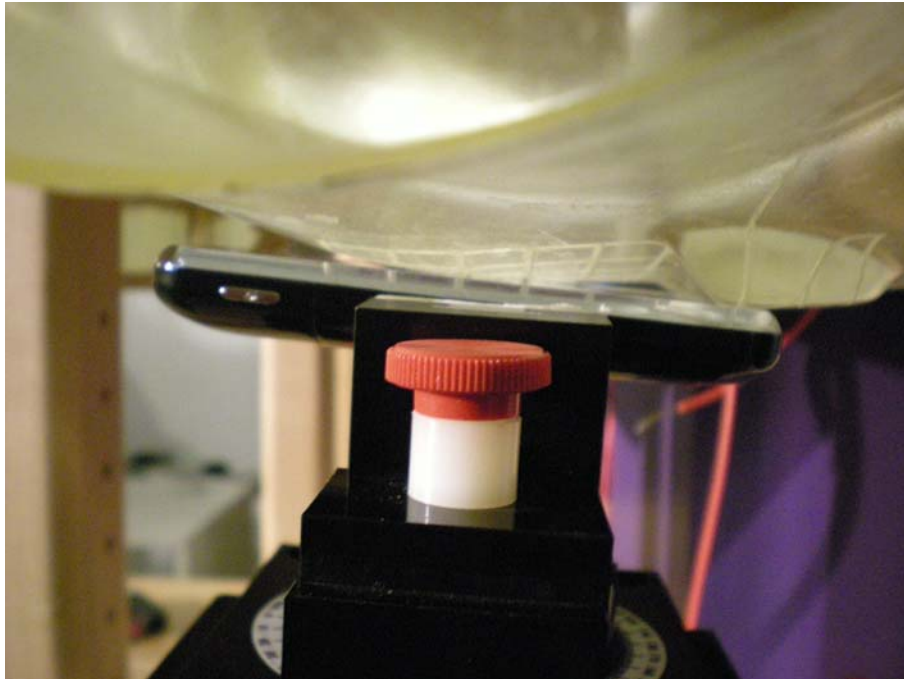
PCS 1900 GPRS 4 slot EUT Body-worn Z-Axis plot
Channel: 512



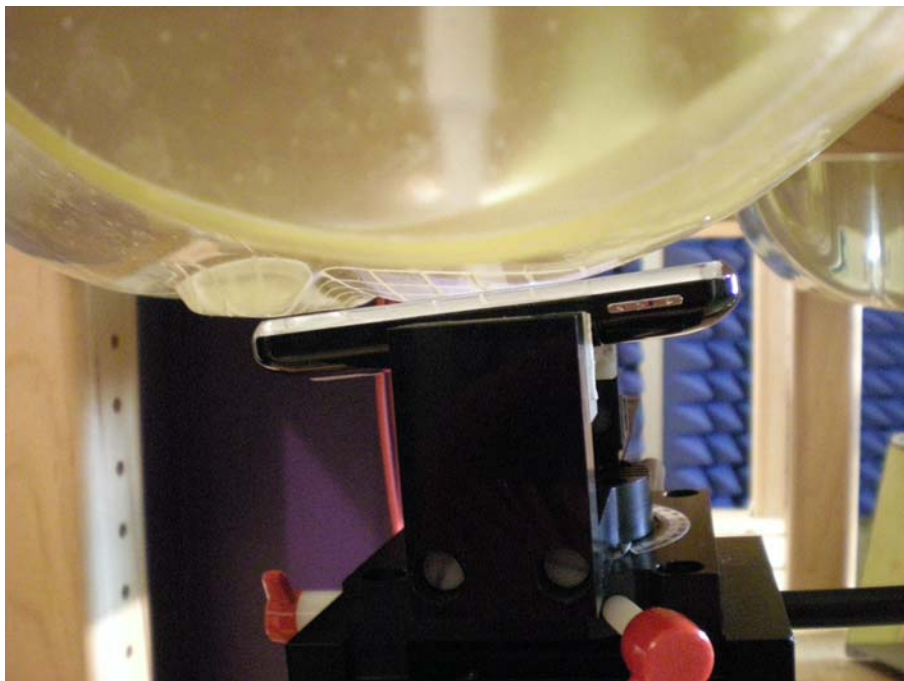
Appendix C. Test Setup Photographs & EUT Photographs

Test Setup Photographs

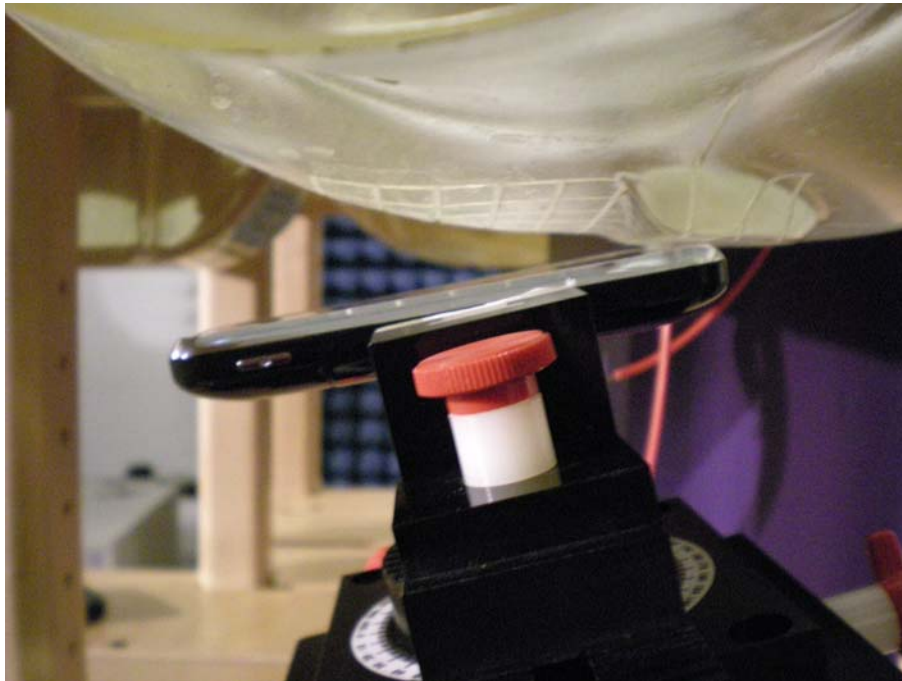
Right Head (EUT Cheek)



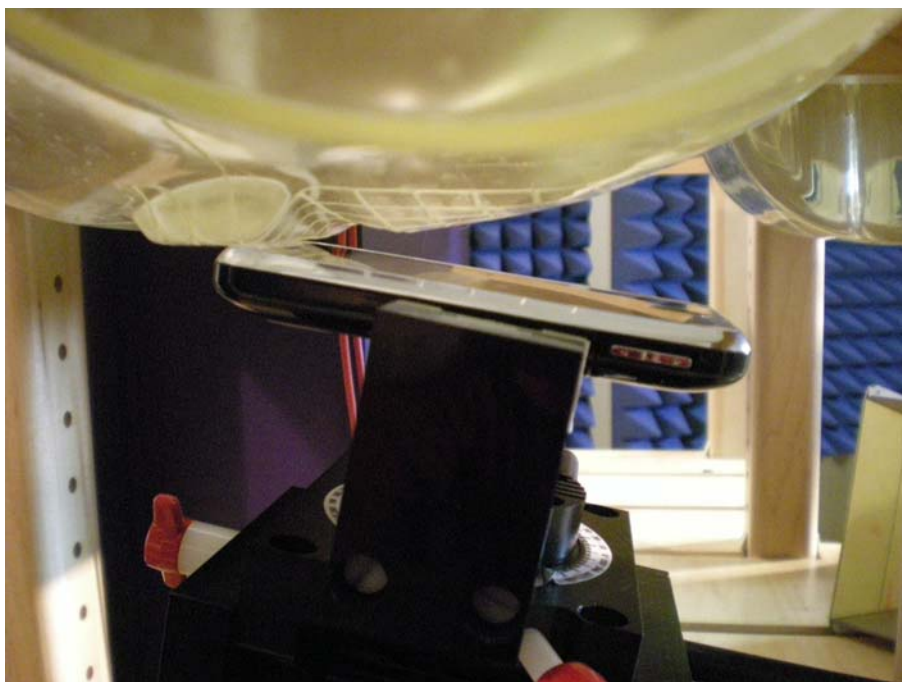
Left Head (EUT Cheek)

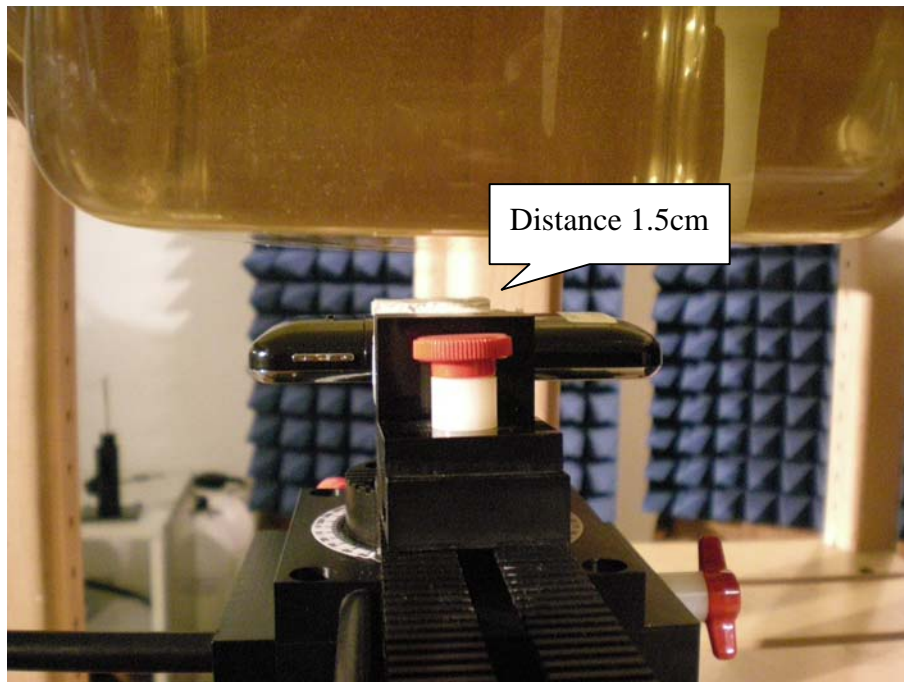


Right Head (EUT Tilted)



Left Head (EUT Tilted)



Body

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