

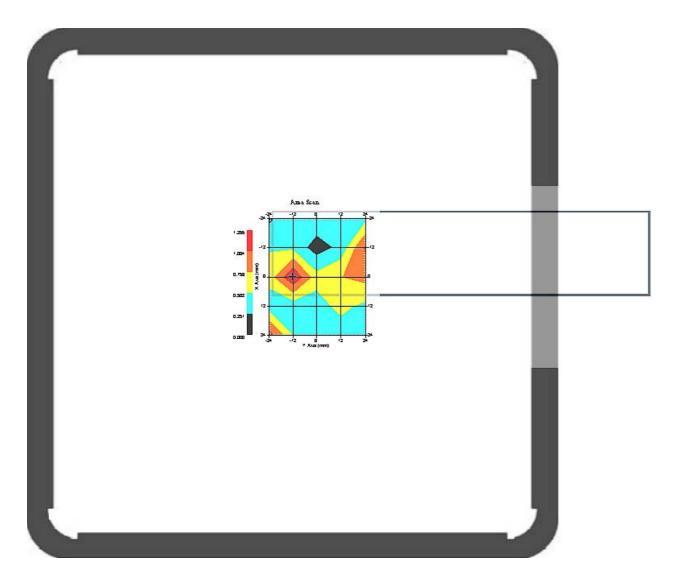
Measurement Data

Crest Factor : 1
Tissue Temp. : 21.10 °C
Ambient Temp. : 22.60 °C
Area Scan : 5x5x1 : Measurement x=12mm, y=12mm, z=4mm
Zoom Scan : 7x7x7 : Measurement x=5mm, y=5mm, z=5mm

Power Drift-Start : 0.378 W/kg Power Drift-Finish: 0.386 W/kg

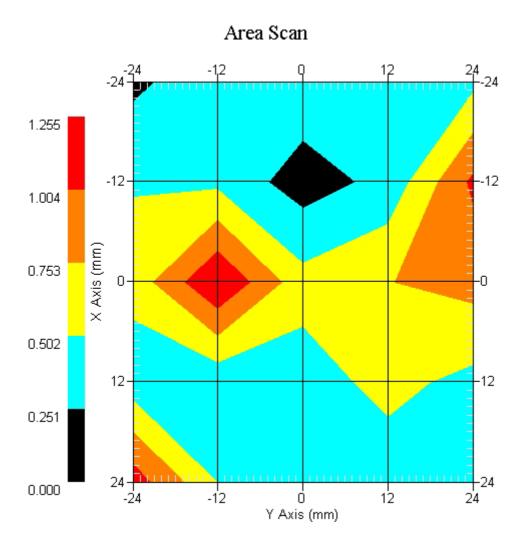
Power Drift (%) : 2.116

DUT Position : Touch Channel : 157



1 gram SAR value : 0.489 W/kg 10 gram SAR value : 0.302 W/kg Area Scan Peak SAR : 1.254 W/kg Zoom Scan Peak SAR: 0.780 W/kg







Measurement Data

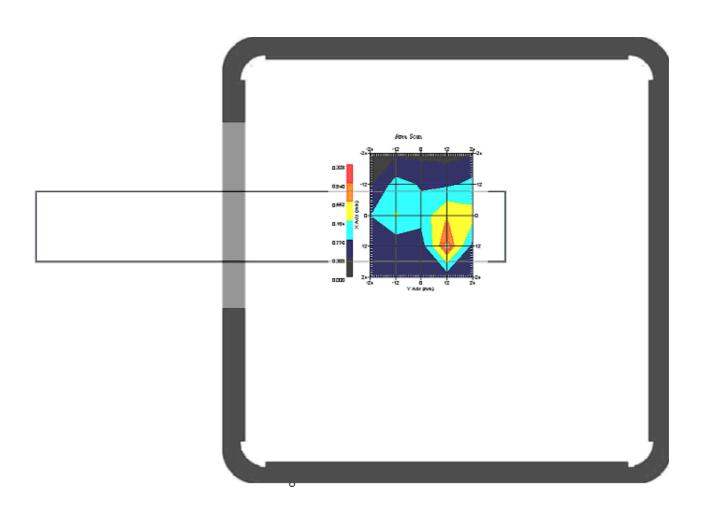
Crest Factor : 1
Tissue Temp. : 20.70 °C
Ambient Temp. : 22.20 °C

Area Scan : 5x5x1 : Measurement x=12mm, y=12mm, z=4mm Zoom Scan : 7x75x7 : Measurement x=5mm, y=5mm, z=5mm

Power Drift-Start : 1.014 W/kg Power Drift-Finish: 0.975 W/kg

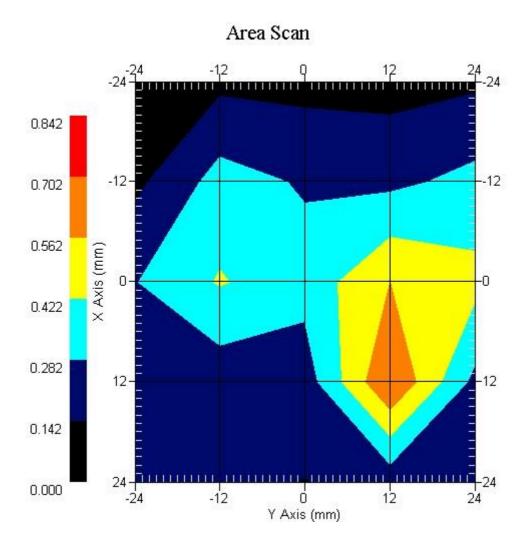
Power Drift (%) : -3.846

DUT Position : Touch Channel : 157 Channel



1 gram SAR value : 0.627 W/kg 10 gram SAR value : 0.495 W/kg Area Scan Peak SAR : 0.842 W/kg Zoom Scan Peak SAR : 1.331 W/kg

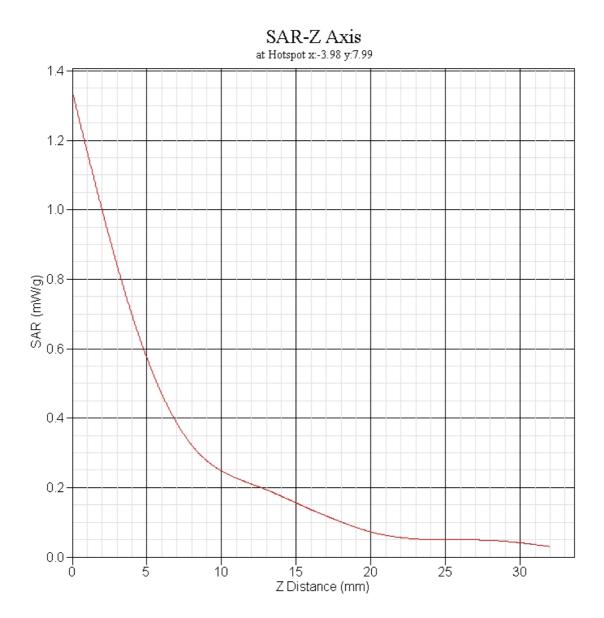






802.11a(5.8GHz) Main Antenna with Bluetooth (1M), Z-Axis plot

channel: 165





ALSAS-10U VER 2.3.2 APREL Laboratories

SAR Test Report -802.11a(5.8GHz) Aux Antenna, with Bluetooth (1M)

Report Date : 06-DEC-2007 Measurement Date : 06-DEC-2007

Product Data

: Tablet PC

Device Name : Taur : Other Model

: T8700 : 5800.00 MHz : 0 min(s) Frequency Drift Time : 182 mm Length Width : 268 mm : 42 mm Antenna Type : Internal

Phantom Data

: Uni-Phantom Type

Size (mm) : $280 \times 280 \times 200$ Location : Center

Tissue Data

Type : BODY
Serial No. : 327-B
Frequency : 5800.00 MHz

Last Calib. Date: 06-DEC-2007 Temperature : 21.10 °C

Ambient Temp. : 22.60 °C

Humidity : 52.00 RH%

Epsilon : 48.11 F/m

Sigma : 6.143 S/m

Density : 1000.00 kg/cu. m

Probe Data

Name : Probe 264 : E020

Model

: E-Field Triangle Type

Serial No. : 264

Last Calib. Date: 23-Aug-2007 Frequency : 5800.00 MHz

Duty Cycle Factor: 1 Conversion Factor: 4.3

Probe Sensitivity: 0.61 0.61 $\mu V/(V/m)^2$

Compression Point: 95.00 mV Offset : 1.56 mm



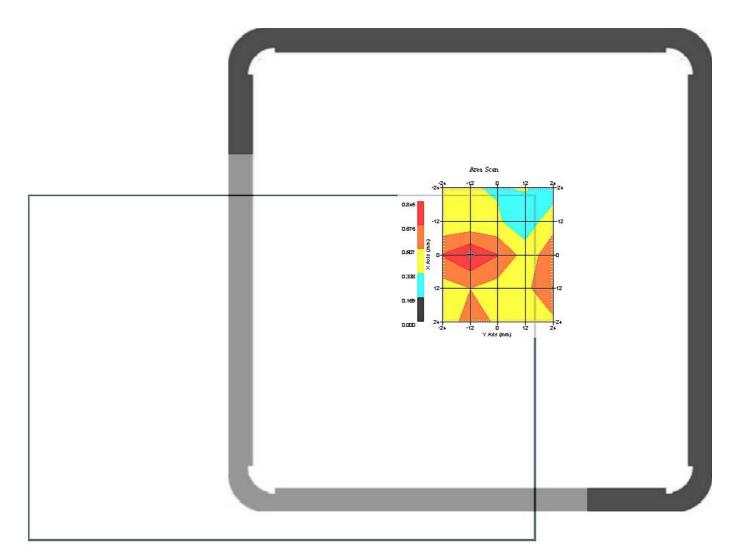
Measurement Data

Crest Factor : 1
Tissue Temp. : 21.10 °C
Ambient Temp. : 22.60 °C
Area Scan : 5x5x1 : Measurement x=12mm, y=12mm, z=4mm
Zoom Scan : 7x7x7 : Measurement x=5mm, y=5mm, z=5mm

Power Drift-Start : 0.367 W/kg Power Drift-Finish: 0.381 W/kg

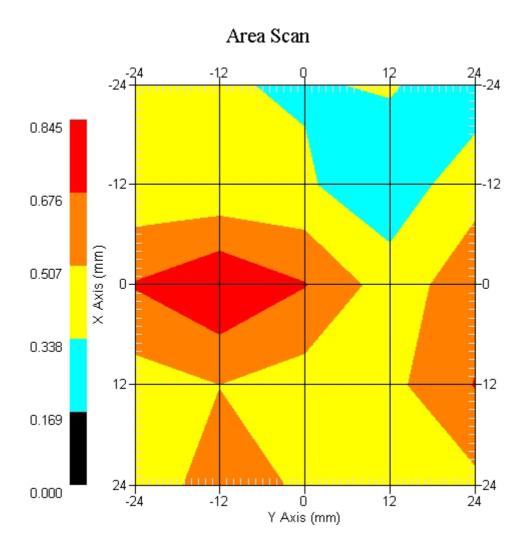
Power Drift (%) : 3.814

DUT Position : Touch Channel : 157



1 gram SAR value : 0.614 W/kg 10 gram SAR value : 0.437 W/kg Area Scan Peak SAR: 0.845 W/kg Zoom Scan Peak SAR: 1.241 W/kg





Version:1.0



Measurement Data

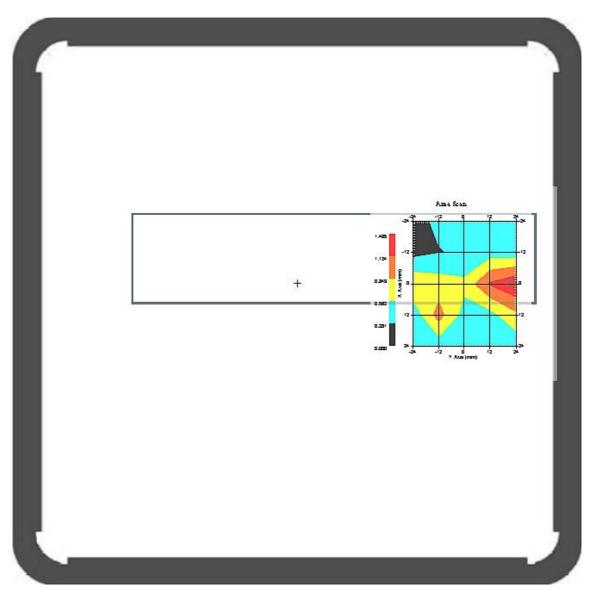
Crest Factor : 1
Tissue Temp. : 21.10 °C
Ambient Temp. : 22.60 °C

Area Scan : 5x5x1 : Measurement x=12mm, y=12mm, z=4mm Zoom Scan : 7x7x7 : Measurement x=5mm, y=5mm, z=5mm

Power Drift-Start : 0.265 W/kg Power Drift-Finish: 0.271 W/kg

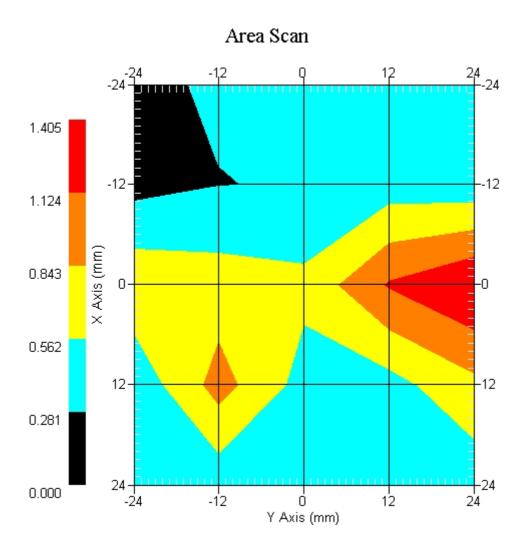
Power Drift (%) : 2.264

DUT Position : Touch Channel : 157



1 gram SAR value : 0.525 W/kg 10 gram SAR value : 0.349 W/kg Area Scan Peak SAR : 1.405 W/kg Zoom Scan Peak SAR : 1.440 W/kg







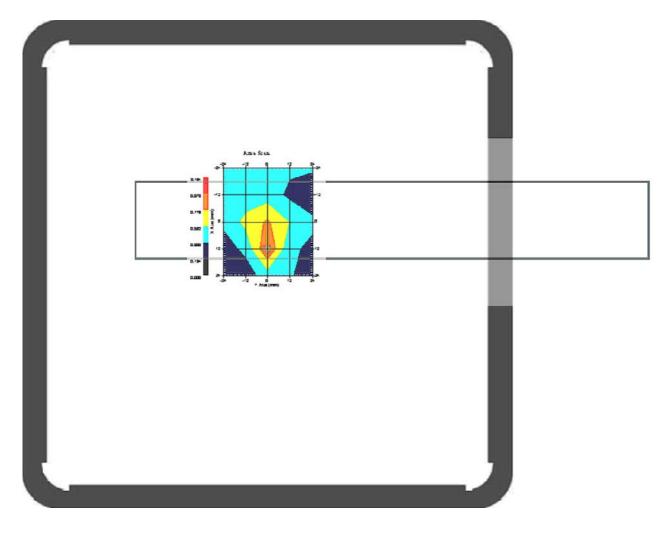
Measurement Data

Crest Factor : 1
Tissue Temp. : 20.70 °C
Ambient Temp. : 21.50 °C

Area Scan : 5x5x1 : Measurement x=12mm, y=12mm, z=4mm Zoom Scan : 7x7x7 : Measurement x=5mm, y=5mm, z=5mm

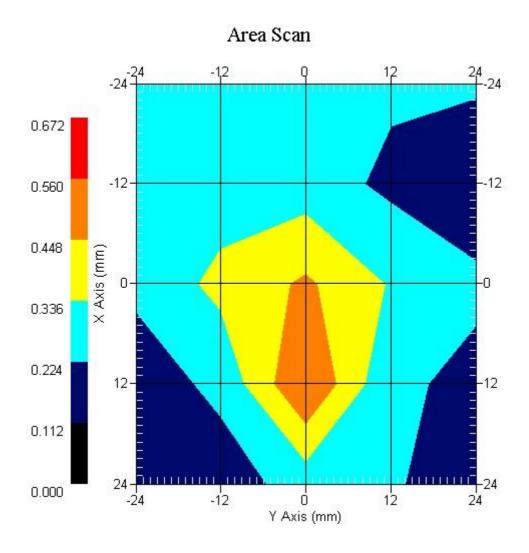
Power Drift-Start : 0.496 W/kg Power Drift-Finish: 0.511 W/kg Power Drift (%) : -2.935

DUT Position : Touch Channel : 157



1 gram SAR value : 0.515 W/kg
10 gram SAR value : 0.305 W/kg Area Scan Peak SAR: 0.672 W/kg Zoom Scan Peak SAR: 1.113 W/kg







ALSAS-10U VER 2.3.2 APREL Laboratories

SAR Test Report -802.11a(5.8GHz) Main Antenna, with Bluetooth (3M)

: 06-Dec-2007 Report Date Measurement Date : 06-Dec-2007

Product Data

Device Name : Tablet PC

: Other Type : T8700 Model

Frequency : 5800.00 MHz
Drift Time : 0 min(s)
Length : 182 mm
Width : 268 mm
Depth : 42 mm
Antenna Type : Internal

Phantom Data

: Uni-Phantom Type

: 280 x 280 x 200 Size (mm)

Location : Center

Tissue Data

Type : BODY Serial No. : 327-B Frequency : 5800.00 MHz

Last Calib. Date: 06-Dec-2007 Temperature : 21.10 °C

Ambient Temp. : 22.60 °C

Humidity : 52.00 RH%

Epsilon : 48.11 F/m

Sigma : 6.143 S/m

Density : 1000.00 kg/cu. m

Probe Data

: Probe 264 Name

: E020 Model

: E-Field Triangle Type

: 264 Serial No.

Last Calib. Date: 23-Aug-2007 Frequency : 5800.00 MHz

Duty Cycle Factor: 1 Conversion Factor: 4.3

Probe Sensitivity: 0.61 0.61 $\mu V/(V/m)^2$

Compression Point: 95.00 mV Offset : 1.56 mm

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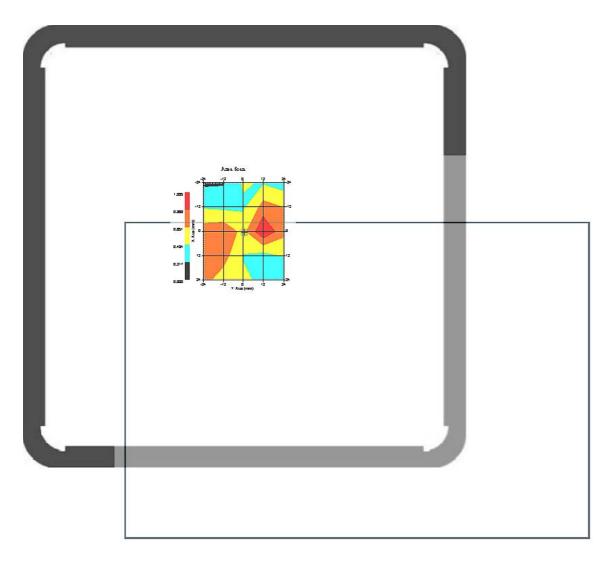
Measurement Data

Crest Factor : 1
Tissue Temp. : 21.10 °C
Ambient Temp. : 22.60 °C
Area Scan : 5x5x1 : Measurement x=12mm, y=12mm, z=4mm
Zoom Scan : 7x7x7 : Measurement x=5mm, y=5mm, z=5mm

Power Drift-Start : 1.332 W/kg Power Drift-Finish: 1.361 W/kg

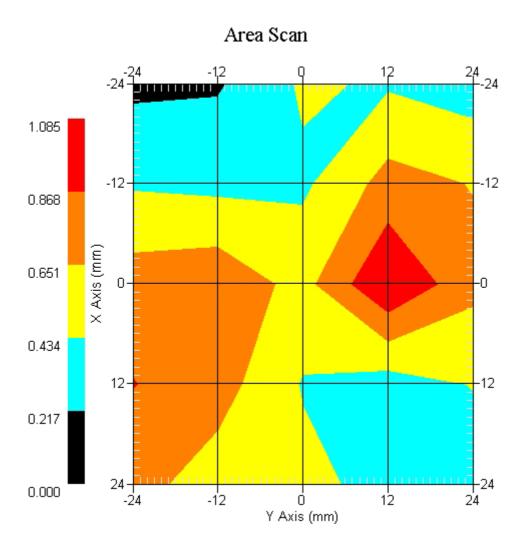
Power Drift (%) : 2.130

DUT Position : Touch Channel : 165 Channel



1 gram SAR value : 0.720 W/kg 10 gram SAR value : 0.617 W/kg Area Scan Peak SAR : 1.084 W/kg Zoom Scan Peak SAR: 1.581 W/kg

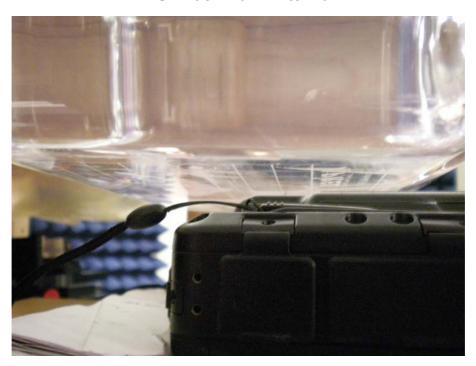




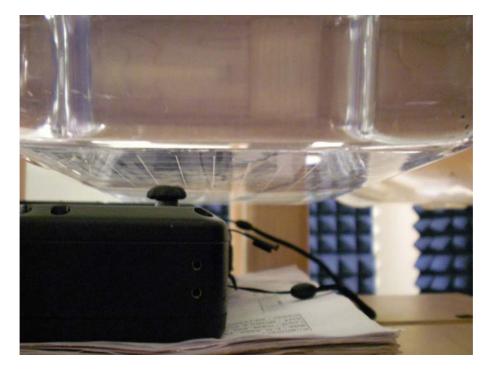


Appendix C. Test Setup Photographs & EUT Photographs Test Setup Photograph

EUT Back-Main Antenna



EUT Back-Aux Antenna



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EUT Edge-Aux Antenna



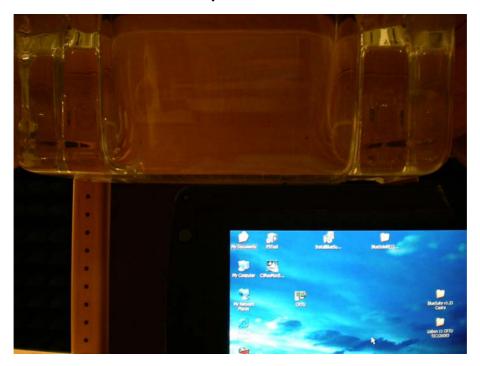
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EUT Top-Aux Antenna



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



Test EUT Photographs





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QuieTek

Appendix - Probe Calibration

Miniature Isotropic RF Probe

M/N: ALS-E-020

S/N: 264

2450MHz Head Calibration 2450MHz Body Calibration 5200MHz Head Calibration 5200MHz Body Calibration 5800MHz Head Calibration 5800MHz Body Calibration

NCL CALIBRATION LABORATORIES

Calibration File No.: CP-825

Client: QUIETEK

CERTIFICATE OF CALIBRATION

It is certified that the equipment identified below has been calibrated in the NCL CALIBRATION LABORATORIES by qualified personnel following recognized procedures and using transfer standards traceable to NRC/NIST.

Equipment: Miniature Isotropic RF Probe 2450 MHz

Manufacturer: APREL Laboratories Model No.: ALS-E-020 Serial No.: 264

HEAD Calibration

Calibration Procedure: SSI/DRB-TP-D01-032-E020-V2

Project No: QTKB-E-Probe-5305

Calibrated: 22nd August 2007 Released on: 4th September 2007

This Calibration Certificate is Incomplete Unless Accompanied with the Calibration Results Summary

Released By:

NCL CALIBRATION LABORATORIES

51 SPECTRUM WAY NEPEAN, ONTARIO CANADA K2R 1E6 Division of APREL Lab. TEL: (613) 820-4988 FAX: (613) 820-4161

Introduction

This Calibration Report reproduces the results of the calibration performed in line with the SSI/DRB-TP-D01-032-E020-V2 E-Field Probe Calibration Procedure. The results contained within this report are for APREL E-Field Probe E-020 264.

References

SSI/DRB-TP-D01-032-E020-V2 E-Field Probe Calibration Procedure IEEE 1528 "Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Body Due to Wireless Communications Devices: Experimental Techniques" SSI-TP-011 Tissue Calibration Procedure

Conditions

Probe 264 was a re-calibration.

Ambient Temperature of the Laboratory: 22 °C +/- 0.5 °C **Temperature of the Tissue:** 21 °C +/- 0.5 °C

We the undersigned attest that to the best of our knowledge the calibration of this probe has been accurately conducted and that all information contained within this report has been reviewed for accuracy.

Stuart Nicol

J. Hones

Calibration Results Summary

Probe Type: E-Field Probe E-020

Serial Number: 264

Frequency: 2450 MHz

Sensor Offset: 1.56 mm

Sensor Length: 2.5 mm

Tip Enclosure: Ertalyte*

Tip Diameter: <5 mm

Tip Length: 60 mm

Total Length: 290 mm

*Resistive to recommended tissue recipes per IEEE-1528

Sensitivity in Air

 $\begin{array}{lll} \text{Channel X:} & 1.2 \; \mu \text{V/(V/m)}^2 \\ \text{Channel Y:} & 1.2 \; \mu \text{V/(V/m)}^2 \\ \text{Channel Z:} & 1.2 \; \mu \text{V/(V/m)}^2 \\ \end{array}$

Diode Compression Point: 95 mV

Sensitivity in Head Tissue

Frequency: 2450 MHz

Sigma: 1.80 S/m (+/-5%) Epsilon: 39.2 (+/-5%)

ConvF

Channel X: 5.0

Channel Y:

5.0

Channel Z: 5.0

Tissue sensitivity values were calculated using the load impedance of the APREL Laboratories Daq-Paq.

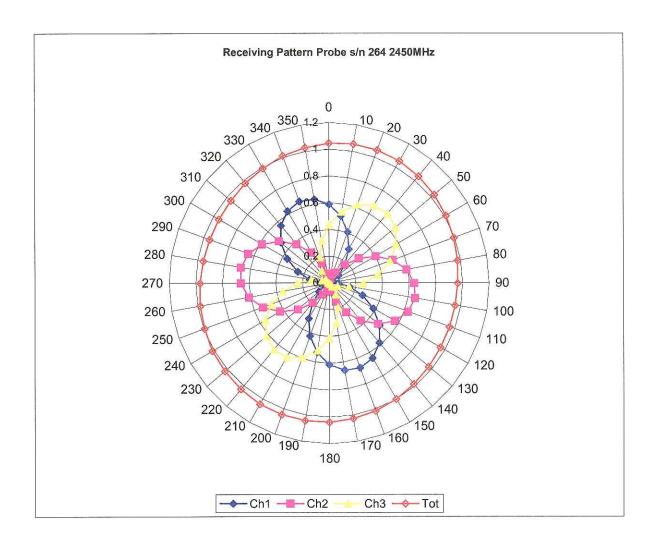
Boundary Effect:

Uncertainty resulting from the boundary effect is less than 2% for the distance between the tip of the probe and the tissue boundary, when less than 2.44mm.

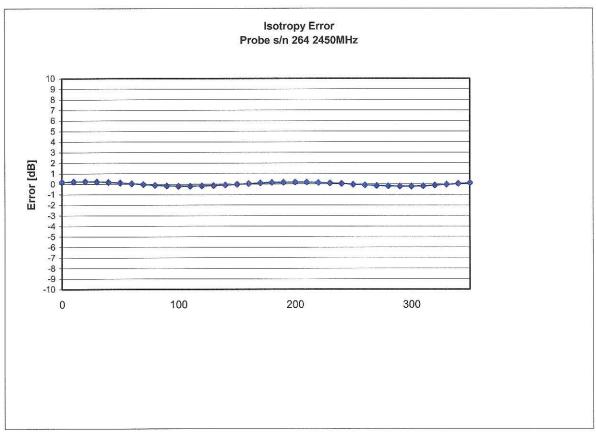
Spatial Resolution:

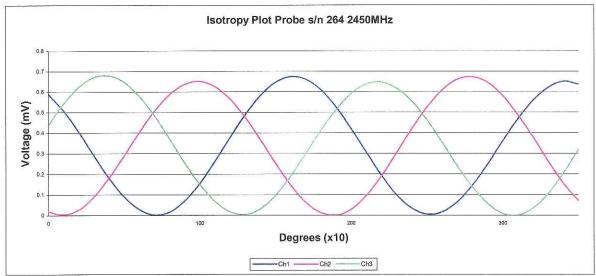
The measured probe tip diameter is 5 mm (+/- 0.01 mm) and therefore meets the requirements of SSI/DRB-TP-D01-032 for spatial resolution.

Receiving Pattern 2450 MHz (Air)



Isotropy Error 2450 MHz (Air)

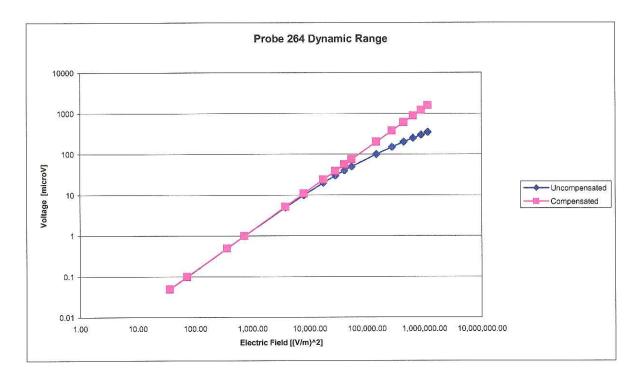




Isotropicity in Tissue:

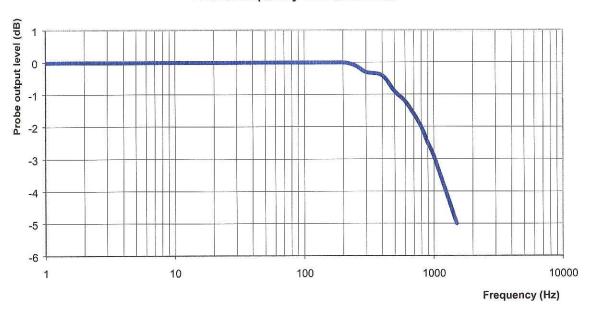
0.10 dB

Dynamic Range



Video Bandwidth

Probe Frequency Characteristics



Video Bandwidth at 500 Hz 1 dB Video Bandwidth at 1000 Hz 3 dB

Conversion Factor Uncertainty Assessment

Frequency:

2450MHz

Epsilon:

39.2 (+/-5%)

Sigma:

1.80 S/m (+/-5%)

ConvF

Channel X:

5.0

7%(K=2)

Channel Y:

5.0

7%(K=2)

Channel Z:

5.0

7%(K=2)

To minimize the uncertainty calculation all tissue sensitivity values were calculated using a load impedance of 5 M Ω .

Boundary Effect:

For a distance of 2.4mm the evaluated uncertainty (increase in the probe sensitivity) is less than 2%.

Test Equipment

The test equipment used during Probe Calibration, manufacturer, model number and, current calibration status are listed and located on the main APREL server R:\NCL\Calibration Equipment\Instrument List May 2007.

NCL CALIBRATION LABORATORIES

Calibration File No.: CP-832

Client: QUIETEK

CERTIFICATE OF CALIBRATION

It is certified that the equipment identified below has been calibrated in the NCL CALIBRATION LABORATORIES by qualified personnel following recognized procedures and using transfer standards traceable to NRC/NIST.

Equipment: Miniature Isotropic RF Probe 2450 MHz

Manufacturer: APREL Laboratories
Model No.: ALS-E-020
Serial No.: 264

BODY Calibration

Calibration Procedure: SSI/DRB-TP-D01-032-E020-V2

Project No: QTKB-E-Probe-5305

Calibrated: 21st August 2007 Released on: 4th September 2007

This Calibration Certificate is Incomplete Unless Accompanied with the Calibration Results Summary

Released By:

NCL CALIBRATION LABORATORIES

51 SPECTRUM WAY NEPEAN, ONTARIO CANADA K2R 1E6 Division of APREL Lab. TEL: (613) 820-4988 FAX: (613) 820-4161

Introduction

This Calibration Report reproduces the results of the calibration performed in line with the SSI/DRB-TP-D01-032-E020-V2 E-Field Probe Calibration Procedure. The results contained within this report are for APREL E-Field Probe E-020 264.

References

SSI/DRB-TP-D01-032-E020-V2 E-Field Probe Calibration Procedure IEEE 1528 "Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Body Due to Wireless Communications Devices: Experimental Techniques" SSI-TP-011 Tissue Calibration Procedure

Conditions

Probe 264 was a re-calibration.

Ambient Temperature of the Laboratory: 22 °C +/- 0.5 °C **Temperature of the Tissue:** 21 °C +/- 0.5 °C

We the undersigned attest that to the best of our knowledge the calibration of this probe has been accurately conducted and that all information contained within this report has been reviewed for accuracy.

Stuart Nicol

J. Hones

Calibration Results Summary

Probe Type: E-Field Probe E-020

Serial Number: 264

Frequency: 2450 MHz

Sensor Offset: 1.56 mm

Sensor Length: 2.5 mm

Tip Enclosure: Ertalyte*

Tip Diameter: <5 mm

Tip Length: 60 mm

Total Length: 290 mm

*Resistive to recommended tissue recipes per IEEE-1528

Sensitivity in Air

Diode Compression Point: 95 mV

Sensitivity in Body Tissue

Frequency:

2450 MHz

Epsilon:

52.7 (+/-5%)

Sigma:

1.95 S/m (+/-5%)

ConvF

Channel X:

5.2

Channel Y:

5.2

Channel Z:

5.2

Tissue sensitivity values were calculated using the load impedance of the APREL Laboratories Daq-Paq.

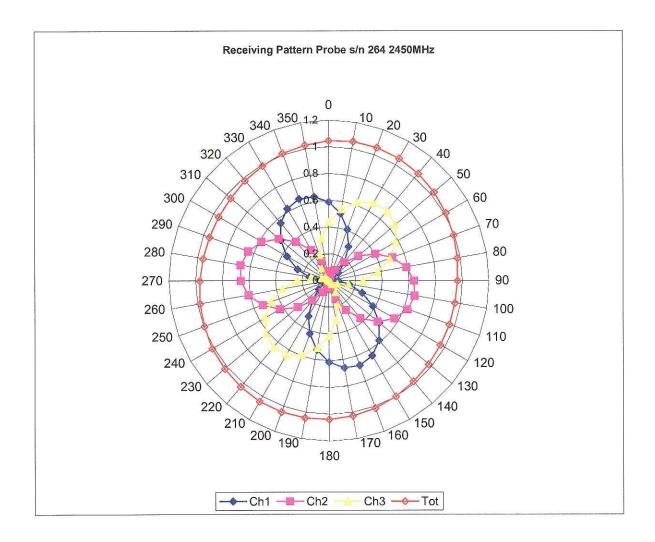
Boundary Effect:

Uncertainty resulting from the boundary effect is less than 2% for the distance between the tip of the probe and the tissue boundary, when less than 2.44mm.

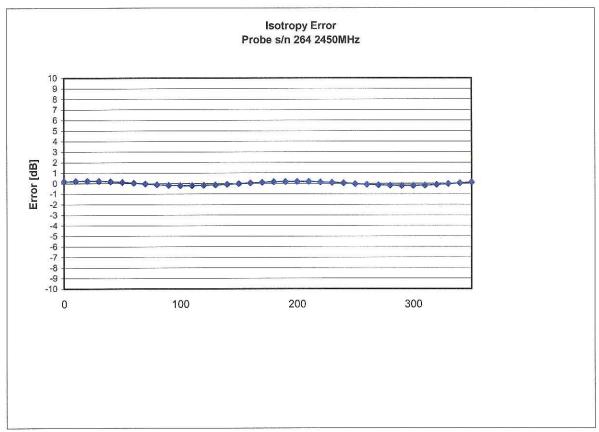
Spatial Resolution:

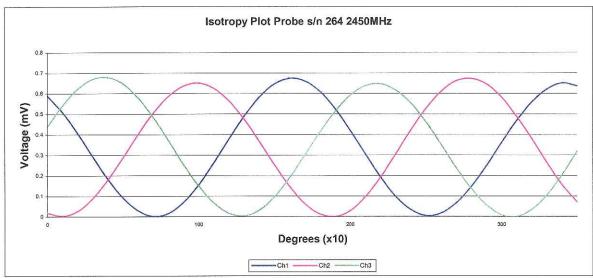
The measured probe tip diameter is 5 mm (+/- 0.01 mm) and therefore meets the requirements of SSI/DRB-TP-D01-032 for spatial resolution.

Receiving Pattern 2450 MHz (Air)



Isotropy Error 2450 MHz (Air)

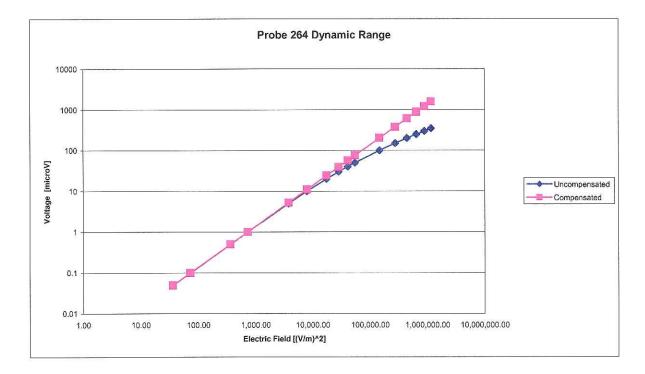




Isotropicity in Tissue:

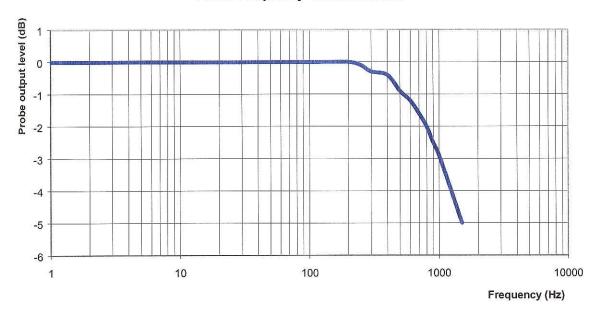
0.10 dB

Dynamic Range



Video Bandwidth

Probe Frequency Characteristics



Video Bandwidth at 500 Hz 1 dB Video Bandwidth at 1000 Hz 3 dB

Conversion Factor Uncertainty Assessment

Frequency:

2450MHz

Epsilon:

52.7 (+/-5%)

Sigma:

1.95 S/m (+/-5%)

ConvF

Channel X:

5.2

7%(K=2)

Channel Y:

5.2

7%(K=2)

Channel Z:

5.2

7%(K=2)

To minimize the uncertainty calculation all tissue sensitivity values were calculated using a load impedance of 5 M Ω .

Boundary Effect:

For a distance of 2.4mm the evaluated uncertainty (increase in the probe sensitivity) is less than 2%.

Test Equipment

The test equipment used during Probe Calibration, manufacturer, model number and, current calibration status are listed and located on the main APREL server R:\NCL\Calibration Equipment\Instrument List May 2007.

NCL CALIBRATION LABORATORIES

Calibration File No.: CP-826

Client: QUIETEK

CERTIFICATE OF CALIBRATION

It is certified that the equipment identified below has been calibrated in the NCL CALIBRATION LABORATORIES by qualified personnel following recognized procedures and using transfer standards traceable to NRC/NIST.

Equipment: Miniature Isotropic RF Probe 5200 MHz

Manufacturer: APREL Laboratories Model No.: ALS-E-020 Serial No.: 264

HEAD Calibration

Calibration Procedure: SSI/DRB-TP-D01-032-E020-V2

Project No: QTKB-EProbe-5305

Calibrated: 22nd August 2007 Released on: 4th September 2007

This Calibration Certificate is Incomplete Unless Accompanied with the Calibration Results Summary

Released By:

NCL CALIBRATION LABORATORIES

51 SPECTRUM WAY NEPEAN, ONTARIO CANADA K2R 1E6 Division of APREL Lab. TEL: (613) 820-4988 FAX: (613) 820-4161

Introduction

This Calibration Report reproduces the results of the calibration performed in line with the SSI/DRB-TP-D01-032-E020-V2 E-Field Probe Calibration Procedure. The results contained within this report are for APREL E-Field Probe E-020 264.

References

SSI/DRB-TP-D01-032-E020-V2 E-Field Probe Calibration Procedure IEEE 1528 "Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Body Due to Wireless Communications Devices: Experimental Techniques" SSI-TP-011 Tissue Calibration Procedure

Conditions

Probe 264 was a re-calibration.

Ambient Temperature of the Laboratory: 22 °C +/- 0.5°C

Temperature of the Tissue:

21 °C +/- 0.5°C

We the undersigned attest that to the best of our knowledge the calibration of this probe has been accurately conducted and that all information contained within this report has been reviewed for accuracy.

Stuart Nicol

J. Homes

Calibration Results Summary

Probe Type: E-Field Probe E-020

Serial Number: 264

Frequency: 5200 MHz

Sensor Offset: 1.56 mm

Sensor Length: 2.5 mm

Tip Enclosure: Ertalyte*

Tip Diameter: <5 mm

Tip Length: 60 mm

Total Length: 290 mm

Sensitivity in Air

 Channel X:
 $1.2 \, \mu V/(V/m)^2$

 Channel Y:
 $1.2 \, \mu V/(V/m)^2$

 Channel Z:
 $1.2 \, \mu V/(V/m)^2$

Diode Compression Point: 95 mV

^{*}Resistive to recommended tissue recipes per IEEE-1528

Sensitivity in Head Tissue

Frequency: 5200 MHz

Epsilon: 35.9 (+/-10%) **Sigma:** 4.7 S/m (+/-5%)

ConvF

Channel X: 3.9

Channel Y: 3.9

Channel Z: 3.9

Tissue sensitivity values were calculated using the load impedance of the APREL Laboratories Daq-Paq.

Boundary Effect:

Uncertainty resulting from the boundary effect is less than 2% for the distance between the tip of the probe and the tissue boundary, when less than 2.44mm.

Spatial Resolution:

The measured probe tip diameter is 5 mm (+/- 0.01 mm) and therefore meets the requirements of SSI/DRB-TP-D01-032 for spatial resolution.

Receiving Pattern 5200 MHz (Air)

