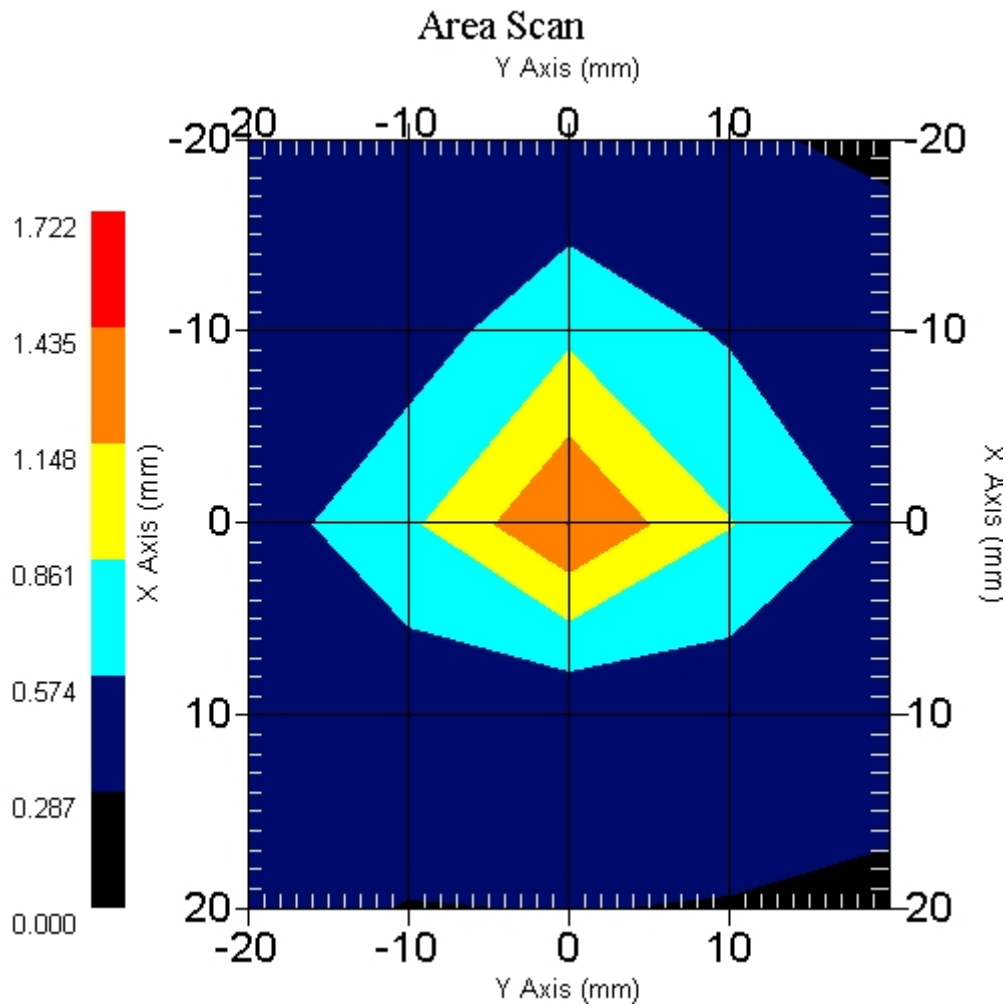


Measurement Data

Crest Factor : 1
 Scan Type : Complete
 Tissue Temp. : 20.00 °C
 Ambient Temp. : 21.00 °C
 Set-up Date : 20-Mar-2006
 Set-up Time : 9:22:56 AM
 Area Scan : 5x5x1 : Measurement x=10mm, y=10mm, z=4mm
 Zoom Scan : 5x5x8 : Measurement x=8mm, y=8mm, z=4mm

Other Data

DUT Position : End
 Separation : 0
 Channel : Low - 149



1 gram SAR value : 1.113 W/kg
 10 gram SAR value : 0.525 W/kg
 Area Scan Peak SAR : 1.436 W/kg
 Zoom Scan Peak SAR : 3.152 W/kg

SAR Test Report

By Operator : Jay
Measurement Date : 20-Mar-2006
Starting Time : 20-Mar-2006 09:41:17 AM
End Time : 20-Mar-2006 09:54:11 AM
Scanning Time : 774 secs

Product Data

Device Name : Motion Computing
Serial No. : 202191420
Type : Other
Model : TS01
Frequency : 5800.00 MHz
Max. Transmit Pwr : 0.025 W
Drift Time : 0 min(s)
Length : 228 mm
Width : 170 mm
Depth : 23 mm
Antenna Type : Internal - Main
Orientation : End
Power Drift-Start : 1.780 W/kg
Power Drift-Finish: 1.766 W/kg
Power Drift (%) : -0.787

Phantom Data

Name : APREL-Uni
Type : Uni-Phantom
Size (mm) : 280 x 280 x 200
Serial No. : System Default
Location : Center
Description : Uni-Phantom

Tissue Data

Type : BODY
Serial No. : 5800
Frequency : 5765.00 MHz
Last Calib. Date : 20-Mar-2006
Temperature : 20.00 °C
Ambient Temp. : 21.00 °C
Humidity : 45.00 RH%
Epsilon : 48.78 F/m
Sigma : 5.83 S/m
Density : 1000.00 kg/cu. m

Probe Data

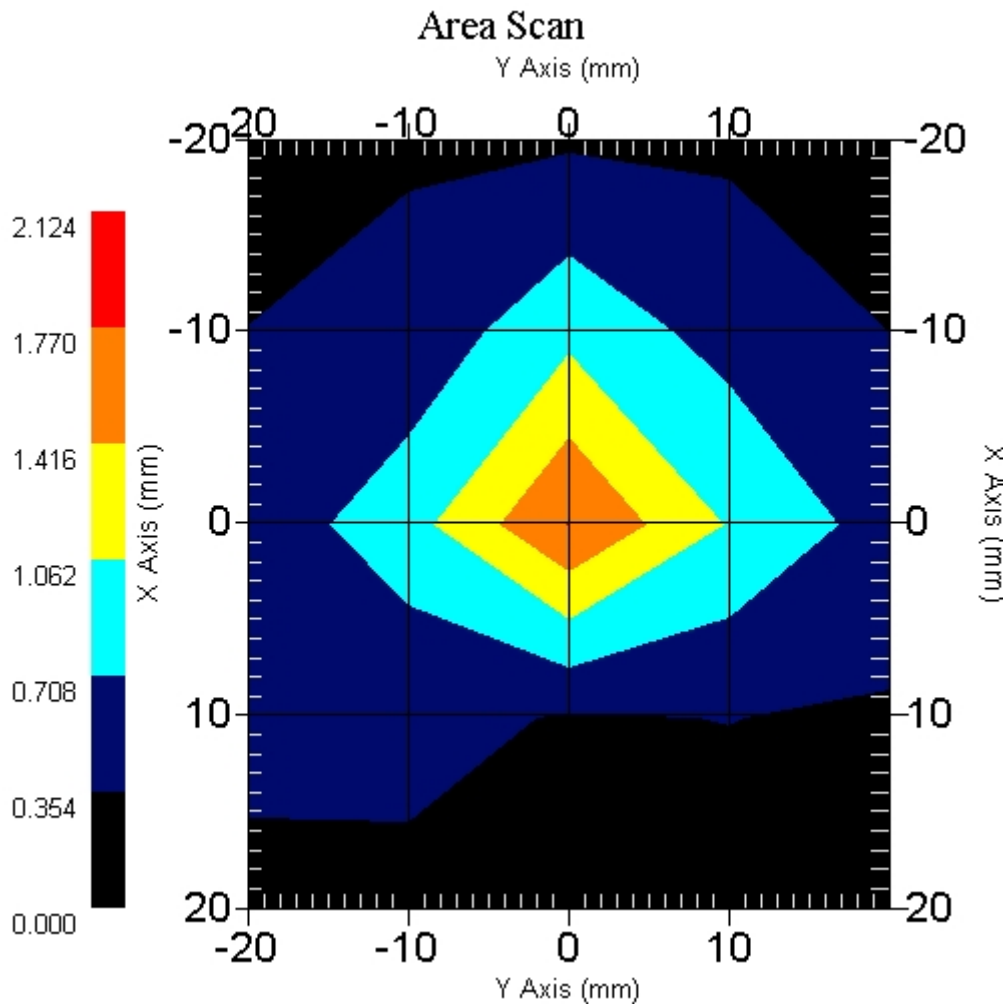
Name : Probe 215 - RFEL
Model : E020
Type : E-Field Triangle
Serial No. : 215
Last Calib. Date : 10-Jun-2005
Frequency : 5800.00 MHz
Duty Cycle Factor: 1
Conversion Factor: 2.1
Probe Sensitivity: 1.20 1.20 1.20 $\mu\text{V}/(\text{V}/\text{m})^2$
Compression Point: 95.00 mV
Offset : 1.56 mm

Measurement Data

Crest Factor : 1
 Scan Type : Complete
 Tissue Temp. : 20.00 °C
 Ambient Temp. : 21.00 °C
 Set-up Date : 20-Mar-2006
 Set-up Time : 9:22:56 AM
 Area Scan : 5x5x1 : Measurement x=10mm, y=10mm, z=4mm
 Zoom Scan : 5x5x8 : Measurement x=8mm, y=8mm, z=4mm

Other Data

DUT Position : End
 Separation : 0
 Channel : Mid - 153



1 gram SAR value : 1.400 W/kg
 10 gram SAR value : 0.606 W/kg
 Area Scan Peak SAR : 1.772 W/kg
 Zoom Scan Peak SAR : 4.213 W/kg

SAR Test Report

By Operator : Jay
Measurement Date : 20-Mar-2006
Starting Time : 20-Mar-2006 09:55:08 AM
End Time : 20-Mar-2006 10:08:01 AM
Scanning Time : 773 secs

Product Data

Device Name : Motion Computing
Serial No. : 202191420
Type : Other
Model : TS01
Frequency : 5800.00 MHz
Max. Transmit Pwr : 0.025 W
Drift Time : 0 min(s)
Length : 228 mm
Width : 170 mm
Depth : 23 mm
Antenna Type : Internal - Main
Orientation : End
Power Drift-Start : 1.765 W/kg
Power Drift-Finish: 1.668 W/kg
Power Drift (%) : -5.523

Phantom Data

Name : APREL-Uni
Type : Uni-Phantom
Size (mm) : 280 x 280 x 200
Serial No. : System Default
Location : Center
Description : Uni-Phantom

Tissue Data

Type : BODY
Serial No. : 5800
Frequency : 5765.00 MHz
Last Calib. Date : 20-Mar-2006
Temperature : 20.00 °C
Ambient Temp. : 21.00 °C
Humidity : 45.00 RH%
Epsilon : 48.78 F/m
Sigma : 5.83 S/m
Density : 1000.00 kg/cu. m

Probe Data

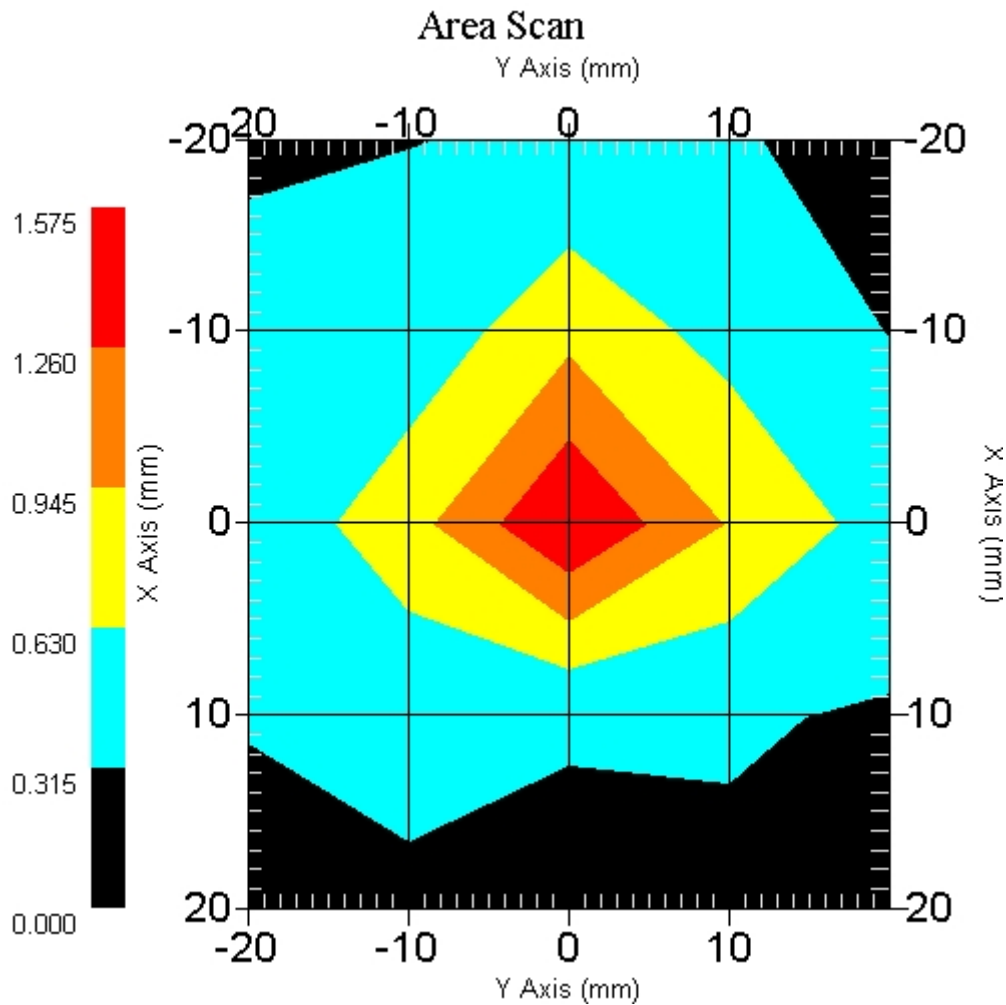
Name : Probe 215 - RFEL
Model : E020
Type : E-Field Triangle
Serial No. : 215
Last Calib. Date : 10-Jun-2005
Frequency : 5800.00 MHz
Duty Cycle Factor: 1
Conversion Factor: 2.1
Probe Sensitivity: 1.20 1.20 1.20 $\mu\text{V}/(\text{V}/\text{m})^2$
Compression Point: 95.00 mV
Offset : 1.56 mm

Measurement Data

Crest Factor : 1
 Scan Type : Complete
 Tissue Temp. : 20.00 °C
 Ambient Temp. : 21.00 °C
 Set-up Date : 20-Mar-2006
 Set-up Time : 9:22:56 AM
 Area Scan : 5x5x1 : Measurement x=10mm, y=10mm, z=4mm
 Zoom Scan : 5x5x8 : Measurement x=8mm, y=8mm, z=4mm

Other Data

DUT Position : End
 Separation : 0
 Channel : High - 161



1 gram SAR value : 1.309 W/kg
 10 gram SAR value : 0.572 W/kg
 Area Scan Peak SAR : 1.573 W/kg
 Zoom Scan Peak SAR : 3.903 W/kg

SAR Test Report

By Operator : Jay
Measurement Date : 22-May-2006
Starting Time : 22-May-2006 12:14:28 PM
End Time : 22-May-2006 12:27:50 PM
Scanning Time : 802 secs

Product Data

Device Name : Motion Computing
Serial No. : 202191420
Type : Other
Model : TS01
Frequency : 5800.00 MHz
Max. Transmit Pwr : 0.025 W
Drift Time : 0 min(s)
Length : 228 mm
Width : 170 mm
Depth : 23 mm
Antenna Type : Internal - Main
Orientation : End
Power Drift-Start : 1.423 W/kg
Power Drift-Finish: 1.363 W/kg
Power Drift (%) : -4.216

Phantom Data

Name : APREL-Uni
Type : Uni-Phantom
Size (mm) : 280 x 280 x 200
Serial No. : System Default
Location : Center
Description : Uni-Phantom

Tissue Data

Type : BODY
Serial No. : 5800
Frequency : 5765.00 MHz
Last Calib. Date : 22-May-2006
Temperature : 20.00 °C
Ambient Temp. : 22.00 °C
Humidity : 50.00 RH%
Epsilon : 47.61 F/m
Sigma : 5.68 S/m
Density : 1000.00 kg/cu. m

Probe Data

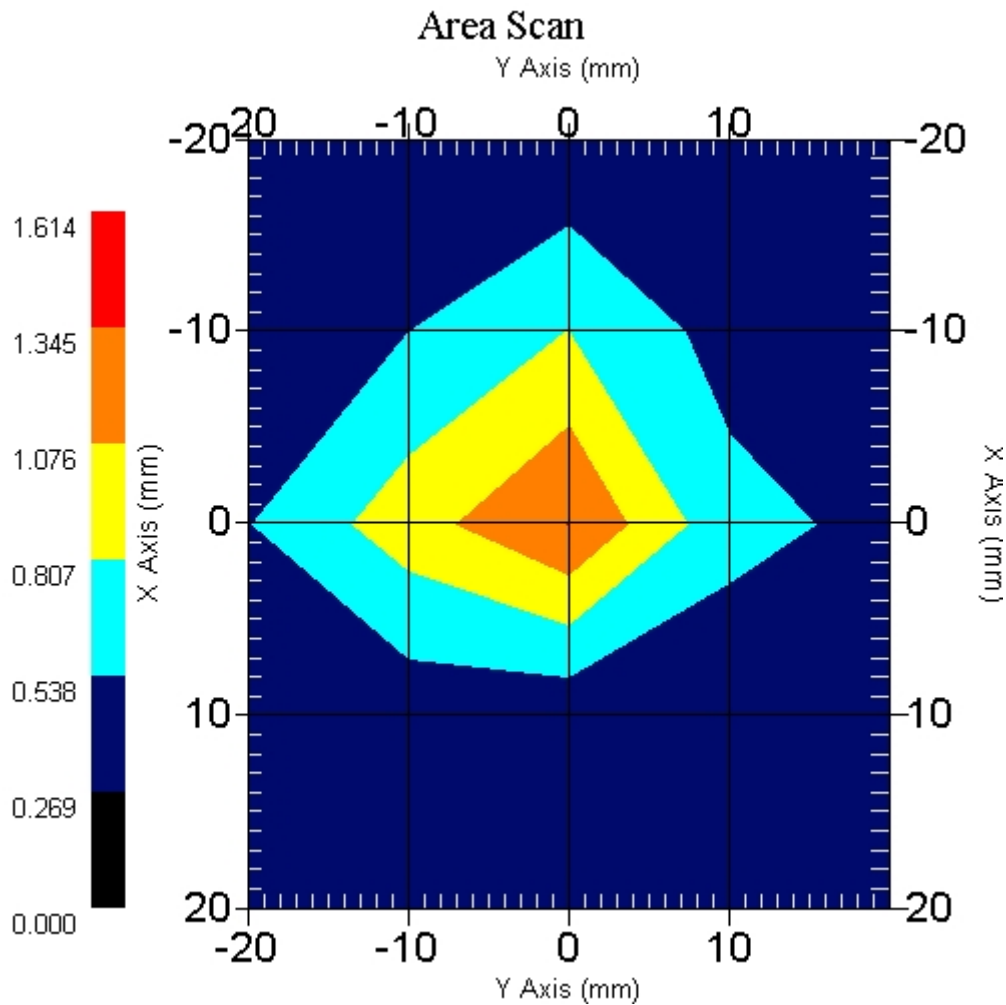
Name : Probe 215 - RFEL
Model : E020
Type : E-Field Triangle
Serial No. : 215
Last Calib. Date : 10-Jun-2005
Frequency : 5800.00 MHz
Duty Cycle Factor: 1
Conversion Factor: 2.1
Probe Sensitivity: 1.20 1.20 1.20 $\mu\text{V}/(\text{V}/\text{m})^2$
Compression Point: 95.00 mV
Offset : 1.56 mm

Measurement Data

Crest Factor : 1
 Scan Type : Complete
 Tissue Temp. : 20.00 °C
 Ambient Temp. : 22.00 °C
 Set-up Date : 22-May-2006
 Set-up Time : 9:06:37 AM
 Area Scan : 5x5x1 : Measurement x=10mm, y=10mm, z=4mm
 Zoom Scan : 5x5x8 : Measurement x=8mm, y=8mm, z=4mm

Other Data

DUT Position : End
 Separation : 0
 Channel : High - 165



1 gram SAR value : 1.058 W/kg
 10 gram SAR value : 0.504 W/kg
 Area Scan Peak SAR : 1.347 W/kg
 Zoom Scan Peak SAR : 3.092 W/kg

SAR Test Report

By Operator : Jay
Measurement Date : 20-Mar-2006
Starting Time : 20-Mar-2006 11:55:03 AM
End Time : 20-Mar-2006 12:08:09 PM
Scanning Time : 786 secs

Product Data

Device Name : Motion Computing
Serial No. : 202191420
Type : Other
Model : TS01
Frequency : 5800.00 MHz
Max. Transmit Pwr : 0.025 W
Drift Time : 0 min(s)
Length : 228 mm
Width : 170 mm
Depth : 23 mm
Antenna Type : Internal - Aux
Orientation : End
Power Drift-Start : 1.492 W/kg
Power Drift-Finish: 1.543 W/kg
Power Drift (%) : 3.414

Phantom Data

Name : APREL-Uni
Type : Uni-Phantom
Size (mm) : 280 x 280 x 200
Serial No. : System Default
Location : Center
Description : Uni-Phantom

Tissue Data

Type : BODY
Serial No. : 5800
Frequency : 5765.00 MHz
Last Calib. Date : 20-Mar-2006
Temperature : 20.00 °C
Ambient Temp. : 21.00 °C
Humidity : 45.00 RH%
Epsilon : 48.78 F/m
Sigma : 5.83 S/m
Density : 1000.00 kg/cu. m

Probe Data

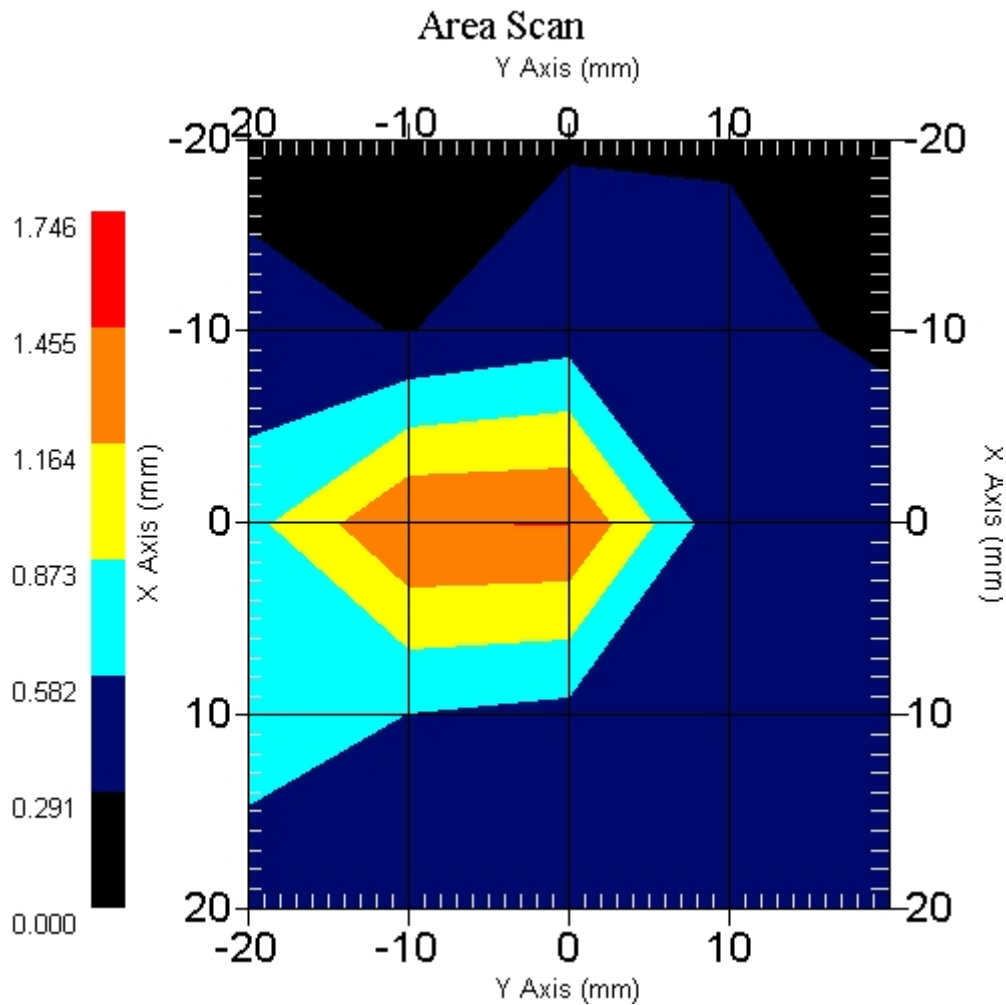
Name : Probe 215 - RFEL
Model : E020
Type : E-Field Triangle
Serial No. : 215
Last Calib. Date : 10-Jun-2005
Frequency : 5800.00 MHz
Duty Cycle Factor: 1
Conversion Factor: 2.1
Probe Sensitivity: 1.20 1.20 1.20 $\mu\text{V}/(\text{V}/\text{m})^2$
Compression Point: 95.00 mV
Offset : 1.56 mm

Measurement Data

Crest Factor : 1
 Scan Type : Complete
 Tissue Temp. : 20.00 °C
 Ambient Temp. : 21.00 °C
 Set-up Date : 20-Mar-2006
 Set-up Time : 9:22:56 AM
 Area Scan : 5x5x1 : Measurement x=10mm, y=10mm, z=4mm
 Zoom Scan : 5x5x8 : Measurement x=8mm, y=8mm, z=4mm

Other Data

DUT Position : End
 Separation : 0
 Channel : Low - 149



1 gram SAR value : 1.427 W/kg
 10 gram SAR value : 0.581 W/kg
 Area Scan Peak SAR : 1.457 W/kg
 Zoom Scan Peak SAR : 4.483 W/kg

SAR Test Report

By Operator : Jay
Measurement Date : 20-Mar-2006
Starting Time : 20-Mar-2006 10:26:23 AM
End Time : 20-Mar-2006 10:39:26 AM
Scanning Time : 783 secs

Product Data

Device Name : Motion Computing
Serial No. : 202191420
Type : Other
Model : TS01
Frequency : 5800.00 MHz
Max. Transmit Pwr : 0.025 W
Drift Time : 0 min(s)
Length : 228 mm
Width : 170 mm
Depth : 23 mm
Antenna Type : Internal - Aux
Orientation : End
Power Drift-Start : 1.687 W/kg
Power Drift-Finish: 1.604 W/kg
Power Drift (%) : -4.920

Phantom Data

Name : APREL-Uni
Type : Uni-Phantom
Size (mm) : 280 x 280 x 200
Serial No. : System Default
Location : Center
Description : Uni-Phantom

Tissue Data

Type : BODY
Serial No. : 5800
Frequency : 5765.00 MHz
Last Calib. Date : 20-Mar-2006
Temperature : 20.00 °C
Ambient Temp. : 21.00 °C
Humidity : 45.00 RH%
Epsilon : 48.78 F/m
Sigma : 5.83 S/m
Density : 1000.00 kg/cu. m

Probe Data

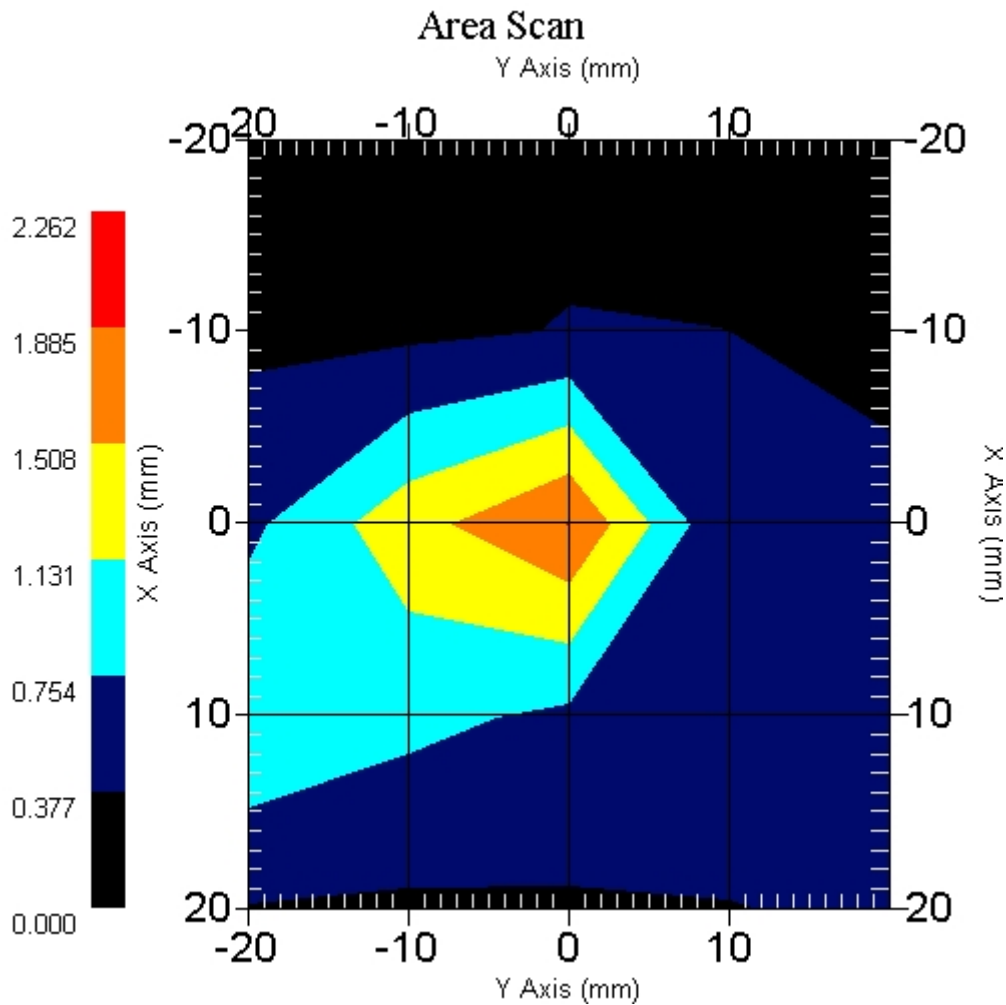
Name : Probe 215 - RFEL
Model : E020
Type : E-Field Triangle
Serial No. : 215
Last Calib. Date : 10-Jun-2005
Frequency : 5800.00 MHz
Duty Cycle Factor: 1
Conversion Factor: 2.1
Probe Sensitivity: 1.20 1.20 1.20 $\mu\text{V}/(\text{V}/\text{m})^2$
Compression Point: 95.00 mV
Offset : 1.56 mm

Measurement Data

Crest Factor : 1
 Scan Type : Complete
 Tissue Temp. : 20.00 °C
 Ambient Temp. : 21.00 °C
 Set-up Date : 20-Mar-2006
 Set-up Time : 9:22:56 AM
 Area Scan : 5x5x1 : Measurement x=10mm, y=10mm, z=4mm
 Zoom Scan : 5x5x8 : Measurement x=8mm, y=8mm, z=4mm

Other Data

DUT Position : End
 Separation : 0
 Channel : Mid - 153



1 gram SAR value : 1.461 W/kg
 10 gram SAR value : 0.594 W/kg
 Area Scan Peak SAR : 1.886 W/kg
 Zoom Scan Peak SAR : 4.573 W/kg

SAR Test Report

By Operator : Jay
Measurement Date : 20-Mar-2006
Starting Time : 20-Mar-2006 10:09:45 AM
End Time : 20-Mar-2006 10:22:50 AM
Scanning Time : 785 secs

Product Data

Device Name : Motion Computing
Serial No. : 202191420
Type : Other
Model : TS01
Frequency : 5800.00 MHz
Max. Transmit Pwr : 0.025 W
Drift Time : 0 min(s)
Length : 228 mm
Width : 170 mm
Depth : 23 mm
Antenna Type : Internal - Aux
Orientation : End
Power Drift-Start : 1.724 W/kg
Power Drift-Finish: 1.674 W/kg
Power Drift (%) : -2.900

Phantom Data

Name : APREL-Uni
Type : Uni-Phantom
Size (mm) : 280 x 280 x 200
Serial No. : System Default
Location : Center
Description : Uni-Phantom

Tissue Data

Type : BODY
Serial No. : 5800
Frequency : 5765.00 MHz
Last Calib. Date : 20-Mar-2006
Temperature : 20.00 °C
Ambient Temp. : 21.00 °C
Humidity : 45.00 RH%
Epsilon : 48.78 F/m
Sigma : 5.83 S/m
Density : 1000.00 kg/cu. m

Probe Data

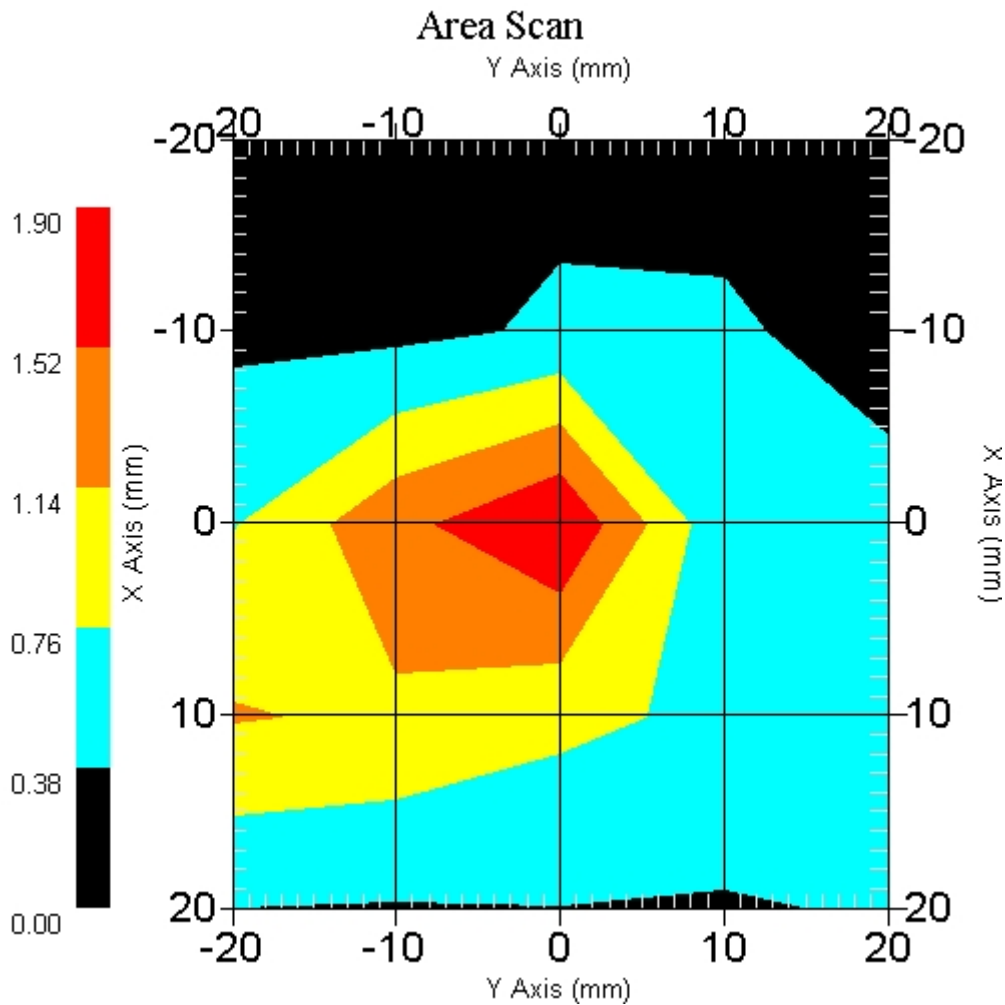
Name : Probe 215 - RFEL
Model : E020
Type : E-Field Triangle
Serial No. : 215
Last Calib. Date : 10-Jun-2005
Frequency : 5800.00 MHz
Duty Cycle Factor: 1
Conversion Factor: 2.1
Probe Sensitivity: 1.20 1.20 1.20 $\mu\text{V}/(\text{V}/\text{m})^2$
Compression Point: 95.00 mV
Offset : 1.56 mm

Measurement Data

Crest Factor : 1
 Scan Type : Complete
 Tissue Temp. : 20.00 °C
 Ambient Temp. : 21.00 °C
 Set-up Date : 20-Mar-2006
 Set-up Time : 9:22:56 AM
 Area Scan : 5x5x1 : Measurement x=10mm, y=10mm, z=4mm
 Zoom Scan : 5x5x8 : Measurement x=8mm, y=8mm, z=4mm

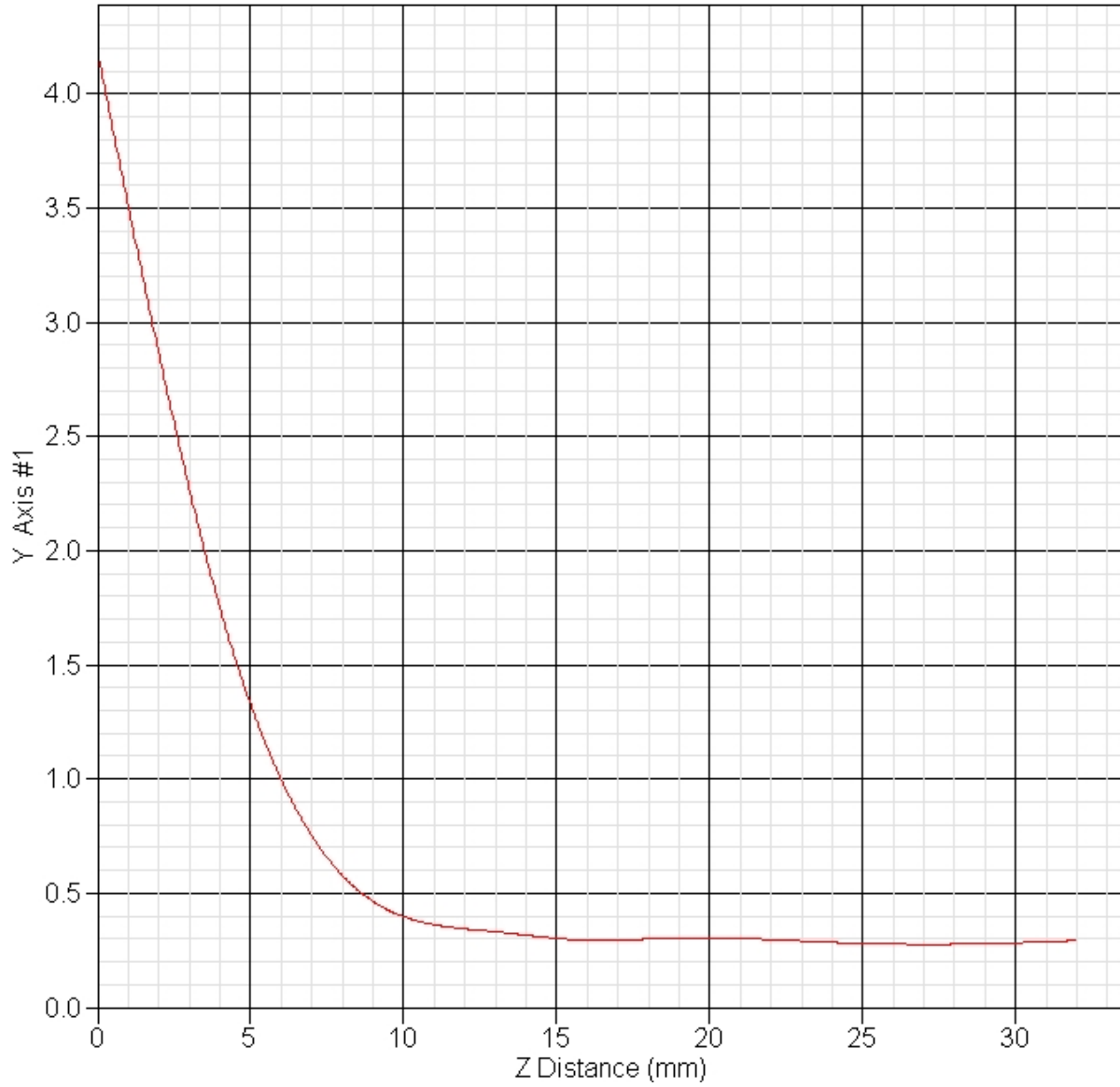
Other Data

DUT Position : End
 Separation : 0
 Channel : High - 161



1 gram SAR value : 1.482 W/kg
 10 gram SAR value : 0.636 W/kg
 Area Scan Peak SAR : 1.899 W/kg
 Zoom Scan Peak SAR : 4.183 W/kg

SAR-Z Axis at Hotspot x:0.30 y:-8.10



SAR Test Report

By Operator : Jay
Measurement Date : 22-May-2006
Starting Time : 22-May-2006 01:03:57 PM
End Time : 22-May-2006 01:16:58 PM
Scanning Time : 781 secs

Product Data

Device Name : Motion Computing
Serial No. : 202191420
Type : Other
Model : TS01
Frequency : 5800.00 MHz
Max. Transmit Pwr : 0.025 W
Drift Time : 0 min(s)
Length : 228 mm
Width : 170 mm
Depth : 23 mm
Antenna Type : Internal - Aux
Orientation : End
Power Drift-Start : 0.749 W/kg
Power Drift-Finish: 0.783 W/kg
Power Drift (%) : 4.599

Phantom Data

Name : APREL-Uni
Type : Uni-Phantom
Size (mm) : 280 x 280 x 200
Serial No. : System Default
Location : Center
Description : Uni-Phantom

Tissue Data

Type : BODY
Serial No. : 5800
Frequency : 5765.00 MHz
Last Calib. Date : 22-May-2006
Temperature : 20.00 °C
Ambient Temp. : 22.00 °C
Humidity : 50.00 RH%
Epsilon : 47.61 F/m
Sigma : 5.68 S/m
Density : 1000.00 kg/cu. m

Probe Data

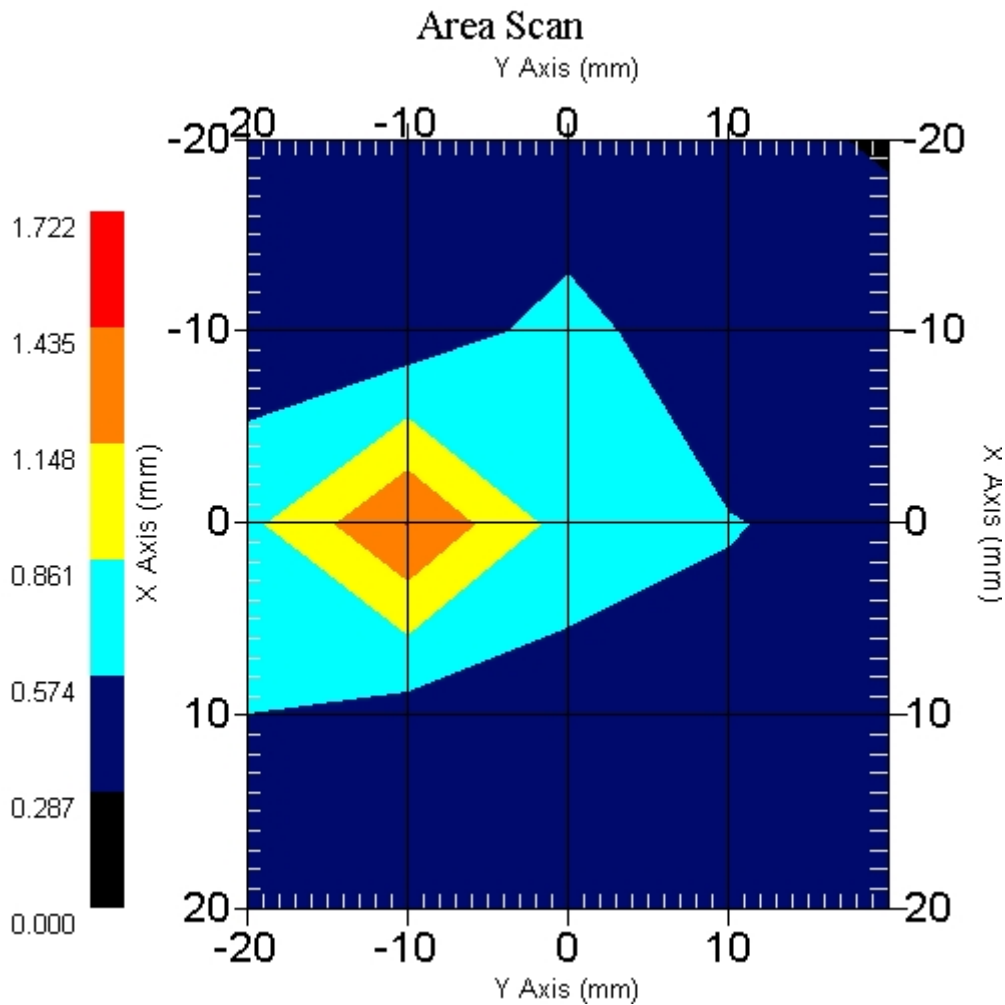
Name : Probe 215 - RFEL
Model : E020
Type : E-Field Triangle
Serial No. : 215
Last Calib. Date : 10-Jun-2005
Frequency : 5800.00 MHz
Duty Cycle Factor: 1
Conversion Factor: 2.1
Probe Sensitivity: 1.20 1.20 1.20 $\mu\text{V}/(\text{V}/\text{m})^2$
Compression Point: 95.00 mV
Offset : 1.56 mm

Measurement Data

Crest Factor : 1
 Scan Type : Complete
 Tissue Temp. : 20.00 °C
 Ambient Temp. : 22.00 °C
 Set-up Date : 22-May-2006
 Set-up Time : 9:06:37 AM
 Area Scan : 5x5x1 : Measurement x=10mm, y=10mm, z=4mm
 Zoom Scan : 5x5x8 : Measurement x=8mm, y=8mm, z=4mm

Other Data

DUT Position : End
 Separation : 0
 Channel : High - 165



1 gram SAR value : 1.203 W/kg
 10 gram SAR value : 0.554 W/kg
 Area Scan Peak SAR : 1.437 W/kg
 Zoom Scan Peak SAR : 3.572 W/kg

SAR Test Report

By Operator : Jay
Measurement Date : 20-Mar-2006
Starting Time : 20-Mar-2006 05:07:42 PM
End Time : 20-Mar-2006 05:38:36 PM
Scanning Time : 1854 secs

Product Data

Device Name : Motion Computing
Serial No. : 202191420
Type : Other
Model : TS01
Frequency : 5800.00 MHz
Max. Transmit Pwr : 0.025 W
Drift Time : 0 min(s)
Length : 228 mm
Width : 170 mm
Depth : 23 mm
Antenna Type : Internal - Main
Orientation : Back
Power Drift-Start : 0.424 W/kg
Power Drift-Finish: 0.442 W/kg
Power Drift (%) : 4.245

Phantom Data

Name : APREL-Uni
Type : Uni-Phantom
Size (mm) : 280 x 280 x 200
Serial No. : System Default
Location : Center
Description : Uni-Phantom

Tissue Data

Type : BODY
Serial No. : 5800
Frequency : 5765.00 MHz
Last Calib. Date : 20-Mar-2006
Temperature : 20.00 °C
Ambient Temp. : 21.00 °C
Humidity : 45.00 RH%
Epsilon : 48.78 F/m
Sigma : 5.83 S/m
Density : 1000.00 kg/cu. m

Probe Data

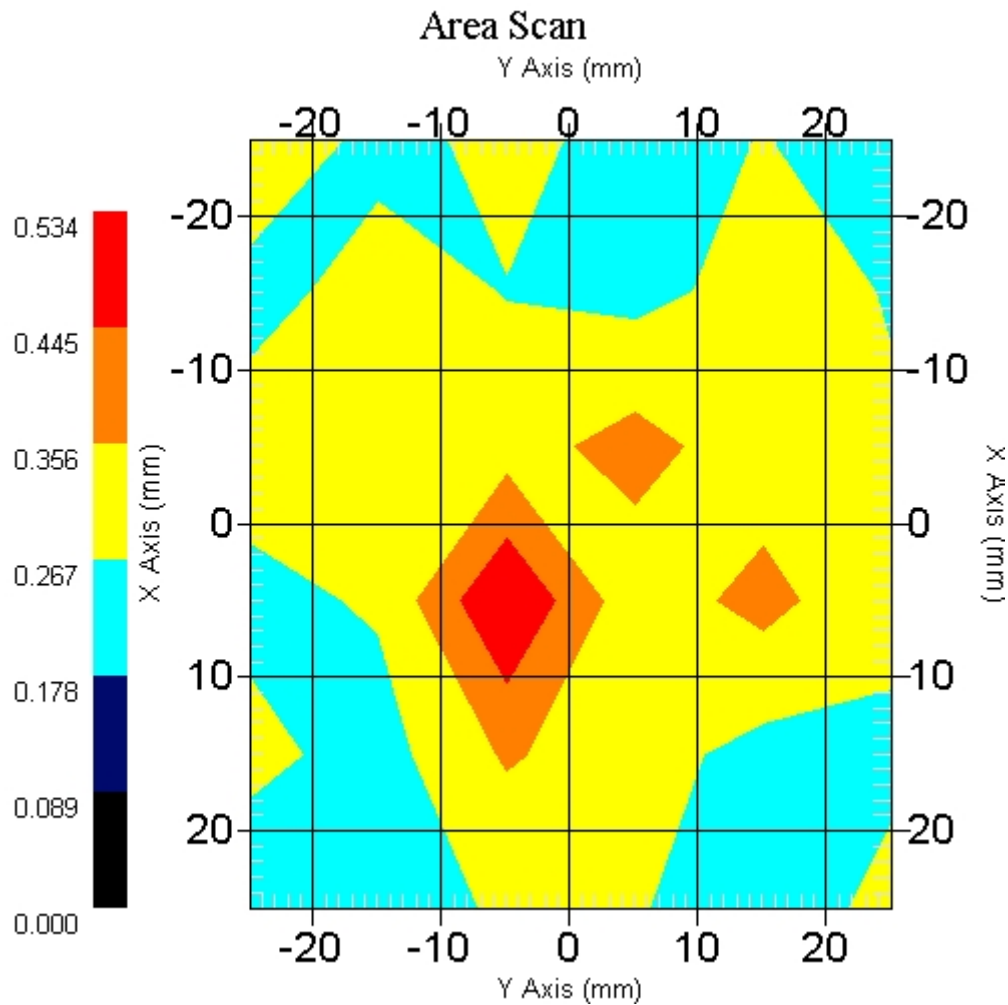
Name : Probe 215 - RFEL
Model : E020
Type : E-Field Triangle
Serial No. : 215
Last Calib. Date : 10-Jun-2005
Frequency : 5800.00 MHz
Duty Cycle Factor: 1
Conversion Factor: 2.1
Probe Sensitivity: 1.20 1.20 1.20 $\mu\text{V}/(\text{V}/\text{m})^2$
Compression Point: 95.00 mV
Offset : 1.56 mm

Measurement Data

Crest Factor : 1
 Scan Type : Complete
 Tissue Temp. : 20.00 °C
 Ambient Temp. : 21.00 °C
 Set-up Date : 20-Mar-2006
 Set-up Time : 9:22:56 AM
 Area Scan : 6x6x1 : Measurement x=10mm, y=10mm, z=4mm
 Zoom Scan : 5x5x8 : Measurement x=8mm, y=8mm, z=4mm

Other Data

DUT Position : Back
 Separation : 0
 Channel : Mid - 153



1 gram SAR value : 0.516 W/kg
 10 gram SAR value : 0.372 W/kg
 Area Scan Peak SAR : 0.534 W/kg
 Zoom Scan Peak SAR : 0.960 W/kg

SAR Test Report

By Operator : Jay
Measurement Date : 20-Mar-2006
Starting Time : 20-Mar-2006 04:39:43 PM
End Time : 20-Mar-2006 05:02:51 PM
Scanning Time : 1388 secs

Product Data

Device Name : Motion Computing
Serial No. : 202191420
Type : Other
Model : TS01
Frequency : 5800.00 MHz
Max. Transmit Pwr : 0.025 W
Drift Time : 0 min(s)
Length : 228 mm
Width : 170 mm
Depth : 23 mm
Antenna Type : Internal - Aux
Orientation : Back
Power Drift-Start : 0.418 W/kg
Power Drift-Finish: 0.431 W/kg
Power Drift (%) : 3.110

Phantom Data

Name : APREL-Uni
Type : Uni-Phantom
Size (mm) : 280 x 280 x 200
Serial No. : System Default
Location : Center
Description : Uni-Phantom

Tissue Data

Type : BODY
Serial No. : 5800
Frequency : 5765.00 MHz
Last Calib. Date : 20-Mar-2006
Temperature : 20.00 °C
Ambient Temp. : 21.00 °C
Humidity : 45.00 RH%
Epsilon : 48.78 F/m
Sigma : 5.83 S/m
Density : 1000.00 kg/cu. m

Probe Data

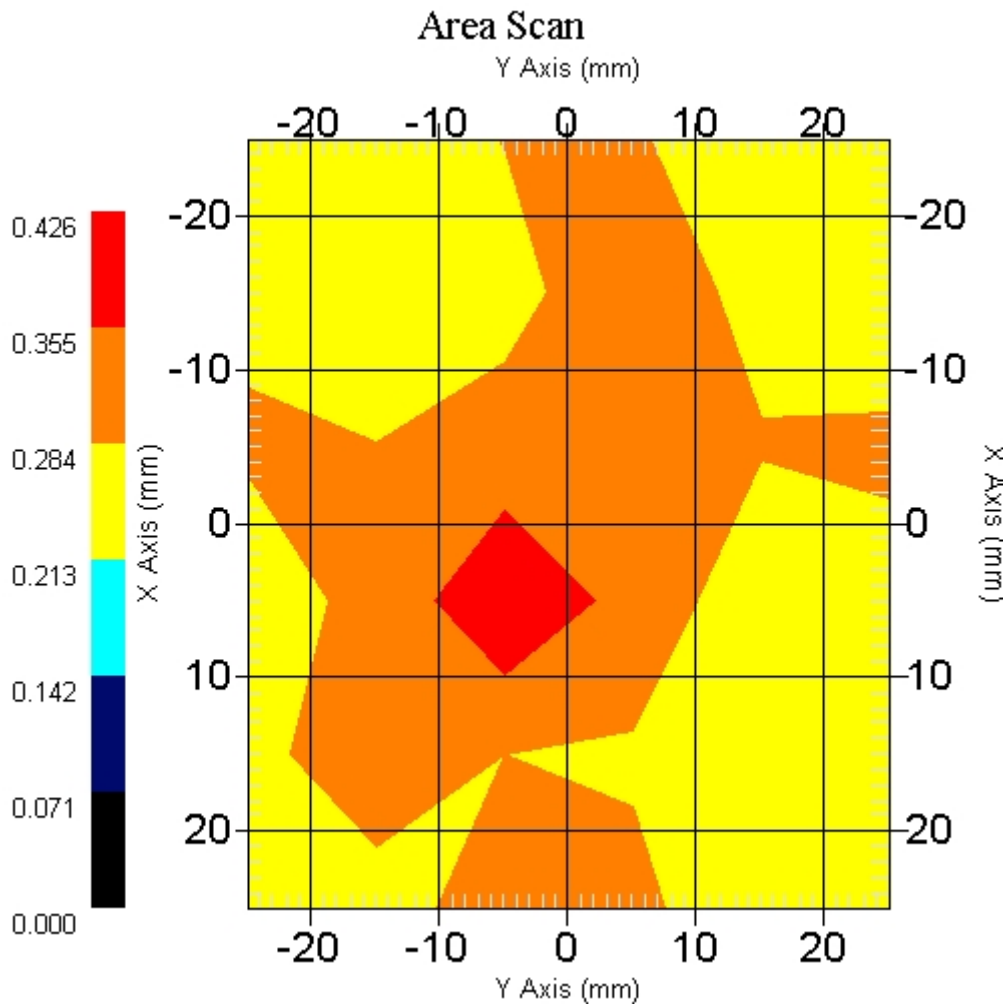
Name : Probe 215 - RFEL
Model : E020
Type : E-Field Triangle
Serial No. : 215
Last Calib. Date : 10-Jun-2005
Frequency : 5800.00 MHz
Duty Cycle Factor: 1
Conversion Factor: 2.1
Probe Sensitivity: 1.20 1.20 1.20 $\mu\text{V}/(\text{V}/\text{m})^2$
Compression Point: 95.00 mV
Offset : 1.56 mm

Measurement Data

Crest Factor : 1
 Scan Type : Complete
 Tissue Temp. : 20.00 °C
 Ambient Temp. : 21.00 °C
 Set-up Date : 20-Mar-2006
 Set-up Time : 2:00:06 PM
 Area Scan : 6x6x1 : Measurement x=10mm, y=10mm, z=4mm
 Zoom Scan : 5x5x8 : Measurement x=8mm, y=8mm, z=4mm

Other Data

DUT Position : Back
 Separation : 0
 Channel : Mid - 153



1 gram SAR value : 0.426 W/kg
 10 gram SAR value : 0.317 W/kg
 Area Scan Peak SAR : 0.423 W/kg
 Zoom Scan Peak SAR : 0.810 W/kg

SAR Test Report

By Operator : Jay
Measurement Date : 20-Mar-2006
Starting Time : 20-Mar-2006 04:10:17 PM
End Time : 20-Mar-2006 04:33:23 PM
Scanning Time : 1386 secs

Product Data

Device Name : Motion Computing
Serial No. : 202191420
Type : Other
Model : TS01
Frequency : 5800.00 MHz
Max. Transmit Pwr : 0.025 W
Drift Time : 0 min(s)
Length : 228 mm
Width : 170 mm
Depth : 23 mm
Antenna Type : Internal - Main
Orientation : Front
Power Drift-Start : 0.416 W/kg
Power Drift-Finish: 0.411 W/kg
Power Drift (%) : -1.300

Phantom Data

Name : APREL-Uni
Type : Uni-Phantom
Size (mm) : 280 x 280 x 200
Serial No. : System Default
Location : Center
Description : Uni-Phantom

Tissue Data

Type : BODY
Serial No. : 5800
Frequency : 5765.00 MHz
Last Calib. Date : 20-Mar-2006
Temperature : 20.00 °C
Ambient Temp. : 21.00 °C
Humidity : 45.00 RH%
Epsilon : 48.78 F/m
Sigma : 5.83 S/m
Density : 1000.00 kg/cu. m

Probe Data

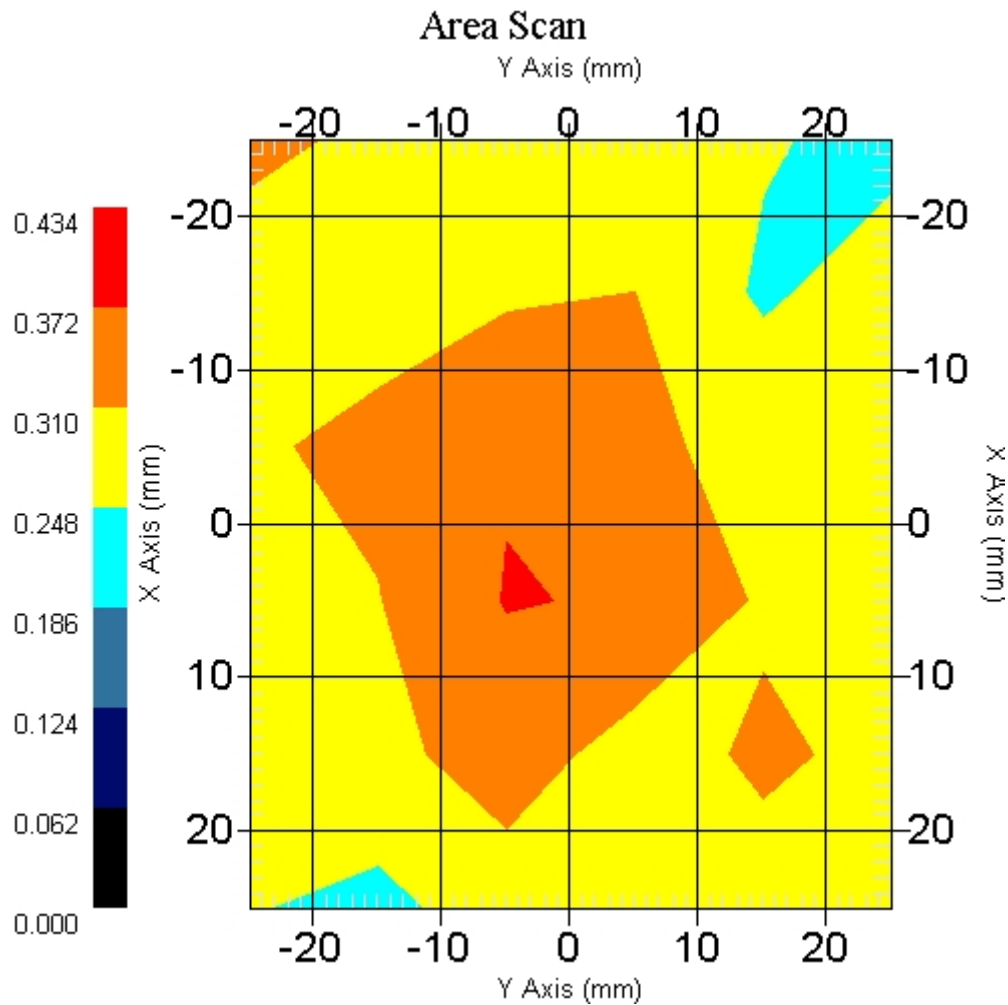
Name : Probe 215 - RFEL
Model : E020
Type : E-Field Triangle
Serial No. : 215
Last Calib. Date : 10-Jun-2005
Frequency : 5800.00 MHz
Duty Cycle Factor: 1
Conversion Factor: 2.1
Probe Sensitivity: 1.20 1.20 1.20 $\mu\text{V}/(\text{V}/\text{m})^2$
Compression Point: 95.00 mV
Offset : 1.56 mm

Measurement Data

Crest Factor : 1
 Scan Type : Complete
 Tissue Temp. : 20.00 °C
 Ambient Temp. : 21.00 °C
 Set-up Date : 20-Mar-2006
 Set-up Time : 2:00:06 PM
 Area Scan : 6x6x1 : Measurement x=10mm, y=10mm, z=4mm
 Zoom Scan : 5x5x8 : Measurement x=8mm, y=8mm, z=4mm

Other Data

DUT Position : Front
 Separation : 0
 Channel : Mid - 153



1 gram SAR value : 0.432 W/kg
 10 gram SAR value : 0.318 W/kg
 Area Scan Peak SAR : 0.375 W/kg
 Zoom Scan Peak SAR : 0.780 W/kg

SAR Test Report

By Operator : Jay
Measurement Date : 20-Mar-2006
Starting Time : 20-Mar-2006 08:26:15 AM
End Time : 20-Mar-2006 08:49:11 AM
Scanning Time : 1376 secs

Product Data

Device Name : Motion Computing
Serial No. : 202191420
Type : Other
Model : TS01
Frequency : 5800.00 MHz
Max. Transmit Pwr : 0.025 W
Drift Time : 0 min(s)
Length : 228 mm
Width : 170 mm
Depth : 23 mm
Antenna Type : Internal - Aux
Orientation : Front
Power Drift-Start : 0.330 W/kg
Power Drift-Finish: 0.316 W/kg
Power Drift (%) : -4.242

Phantom Data

Name : APREL-Uni
Type : Uni-Phantom
Size (mm) : 280 x 280 x 200
Serial No. : System Default
Location : Center
Description : Uni-Phantom

Tissue Data

Type : BODY
Serial No. : 5800
Frequency : 5765.00 MHz
Last Calib. Date : 20-Mar-2006
Temperature : 20.00 °C
Ambient Temp. : 21.00 °C
Humidity : 45.00 RH%
Epsilon : 48.78 F/m
Sigma : 5.83 S/m
Density : 1000.00 kg/cu. m

Probe Data

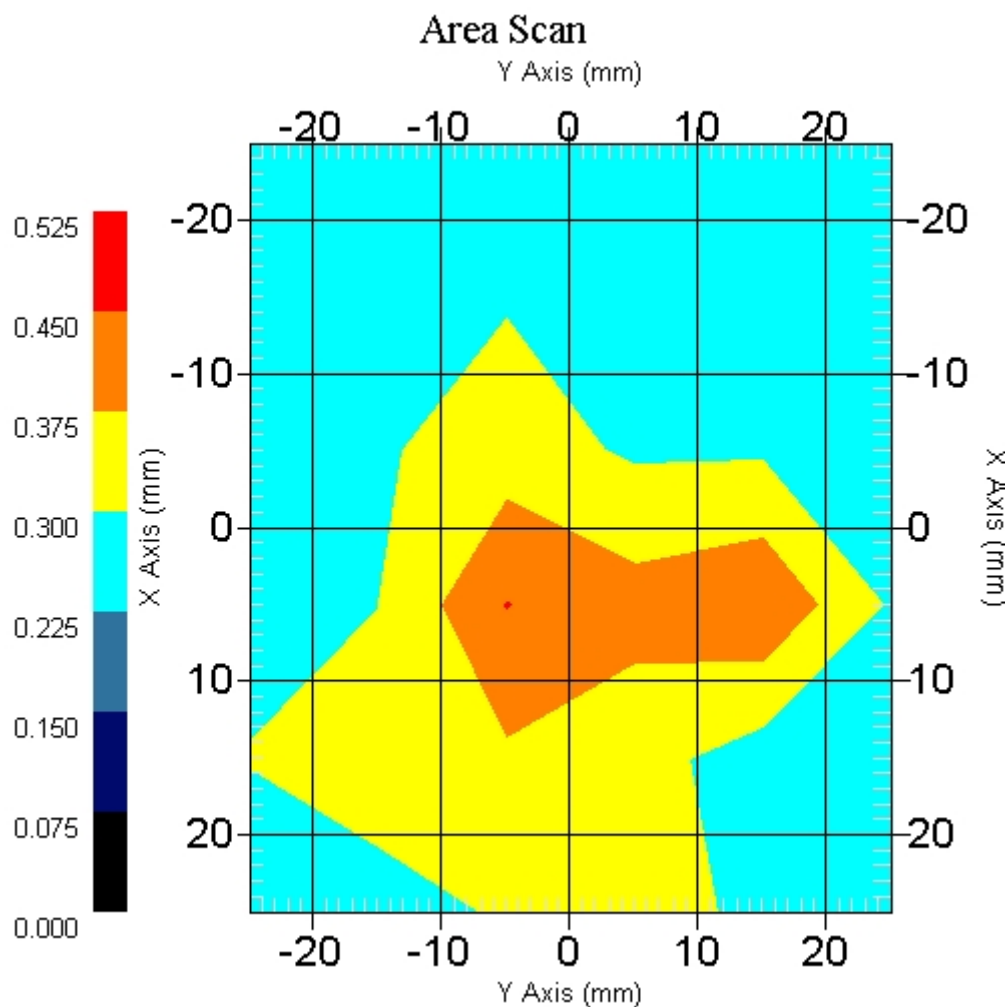
Name : Probe 215 - RFEL
Model : E020
Type : E-Field Triangle
Serial No. : 215
Last Calib. Date : 10-Jun-2005
Frequency : 5800.00 MHz
Duty Cycle Factor: 1
Conversion Factor: 2.1
Probe Sensitivity: 1.20 1.20 1.20 $\mu\text{V}/(\text{V}/\text{m})^2$
Compression Point: 95.00 mV
Offset : 1.56 mm

Measurement Data

Crest Factor : 1
 Scan Type : Complete
 Tissue Temp. : 20.00 °C
 Ambient Temp. : 21.00 °C
 Set-up Date : 20-Mar-2006
 Set-up Time : 2:00:06 PM
 Area Scan : 6x6x1 : Measurement x=10mm, y=10mm, z=4mm
 Zoom Scan : 5x5x8 : Measurement x=8mm, y=8mm, z=4mm

Other Data

DUT Position : Front
 Separation : 0
 Channel : Mid - 153



1 gram SAR value : 0.384 W/kg
 10 gram SAR value : 0.319 W/kg
 Area Scan Peak SAR : 0.452 W/kg
 Zoom Scan Peak SAR : 0.620 W/kg

SAR Test Report

By Operator : Jay
Measurement Date : 20-Mar-2006
Starting Time : 20-Mar-2006 12:35:41 PM
End Time : 20-Mar-2006 12:48:33 PM
Scanning Time : 772 secs

Product Data

Device Name : Motion Computing
Serial No. : 202191420
Type : Other
Model : TS01
Frequency : 5800.00 MHz
Max. Transmit Pwr : 0.025 W
Drift Time : 0 min(s)
Length : 228 mm
Width : 170 mm
Depth : 23 mm
Antenna Type : Internal - Main
Orientation : End
Power Drift-Start : 1.852 W/kg
Power Drift-Finish: 1.942 W/kg
Power Drift (%) : 4.879

Phantom Data

Name : APREL-Uni
Type : Uni-Phantom
Size (mm) : 280 x 280 x 200
Serial No. : System Default
Location : Center
Description : Uni-Phantom

Tissue Data

Type : BODY
Serial No. : 5800
Frequency : 5765.00 MHz
Last Calib. Date : 20-Mar-2006
Temperature : 20.00 °C
Ambient Temp. : 21.00 °C
Humidity : 45.00 RH%
Epsilon : 48.78 F/m
Sigma : 5.83 S/m
Density : 1000.00 kg/cu. m

Probe Data

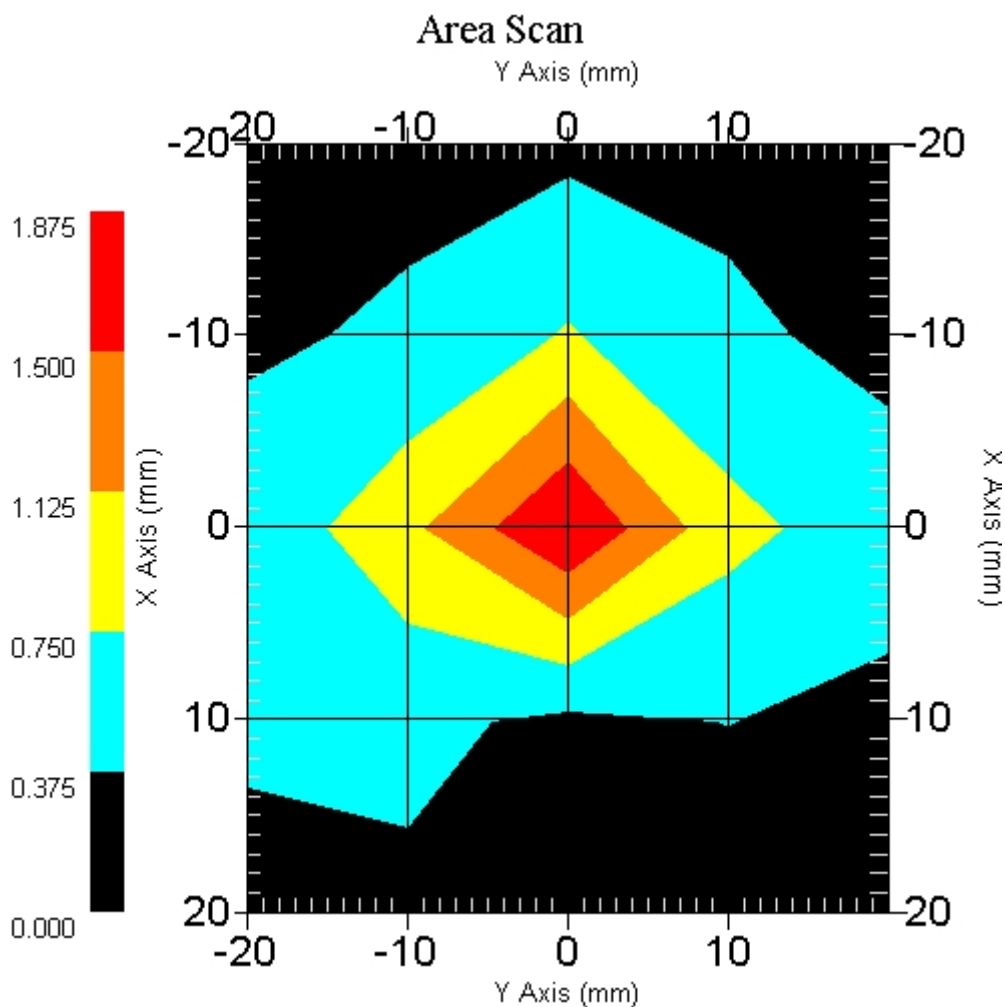
Name : Probe 215 - RFEL
Model : E020
Type : E-Field Triangle
Serial No. : 215
Last Calib. Date : 10-Jun-2005
Frequency : 5800.00 MHz
Duty Cycle Factor: 1
Conversion Factor: 2.1
Probe Sensitivity: 1.20 1.20 1.20 $\mu\text{V}/(\text{V}/\text{m})^2$
Compression Point: 95.00 mV
Offset : 1.56 mm

Measurement Data

Crest Factor : 1
 Scan Type : Complete
 Tissue Temp. : 20.00 °C
 Ambient Temp. : 21.00 °C
 Set-up Date : 20-Mar-2006
 Set-up Time : 9:22:56 AM
 Area Scan : 5x5x1 : Measurement x=10mm, y=10mm, z=4mm
 Zoom Scan : 5x5x8 : Measurement x=8mm, y=8mm, z=4mm

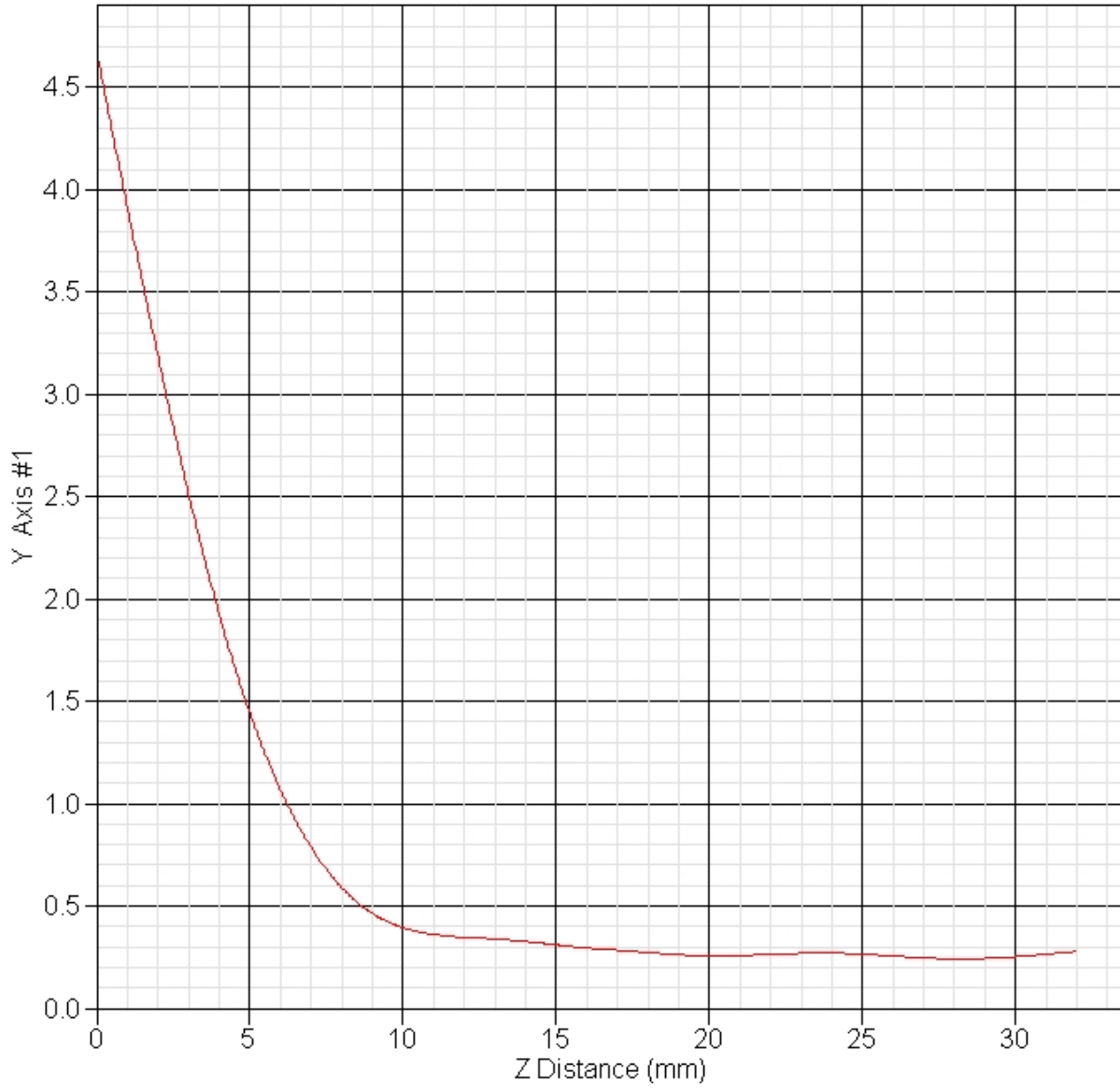
Other Data

DUT Position : End
 Separation : 0
 Channel : Mid - 153



1 gram SAR value : 1.486 W/kg
 10 gram SAR value : 0.604 W/kg
 Area Scan Peak SAR : 1.874 W/kg
 Zoom Scan Peak SAR : 4.673 W/kg

SAR-Z Axis at Hotspot x:0.40 y:-0.20



SAR Test Report

By Operator : Jay
Measurement Date : 20-Mar-2006
Starting Time : 20-Mar-2006 12:19:26 PM
End Time : 20-Mar-2006 12:32:25 PM
Scanning Time : 779 secs

Product Data

Device Name : Motion Computing
Serial No. : 202191420
Type : Other
Model : TS01
Frequency : 5800.00 MHz
Max. Transmit Pwr : 0.025 W
Drift Time : 0 min(s)
Length : 228 mm
Width : 170 mm
Depth : 23 mm
Antenna Type : Internal - Aux
Orientation : End
Power Drift-Start : 1.753 W/kg
Power Drift-Finish: 1.698 W/kg
Power Drift (%) : -3.137

Phantom Data

Name : APREL-Uni
Type : Uni-Phantom
Size (mm) : 280 x 280 x 200
Serial No. : System Default
Location : Center
Description : Uni-Phantom

Tissue Data

Type : BODY
Serial No. : 5800
Frequency : 5765.00 MHz
Last Calib. Date : 20-Mar-2006
Temperature : 20.00 °C
Ambient Temp. : 21.00 °C
Humidity : 45.00 RH%
Epsilon : 48.78 F/m
Sigma : 5.83 S/m
Density : 1000.00 kg/cu. m

Probe Data

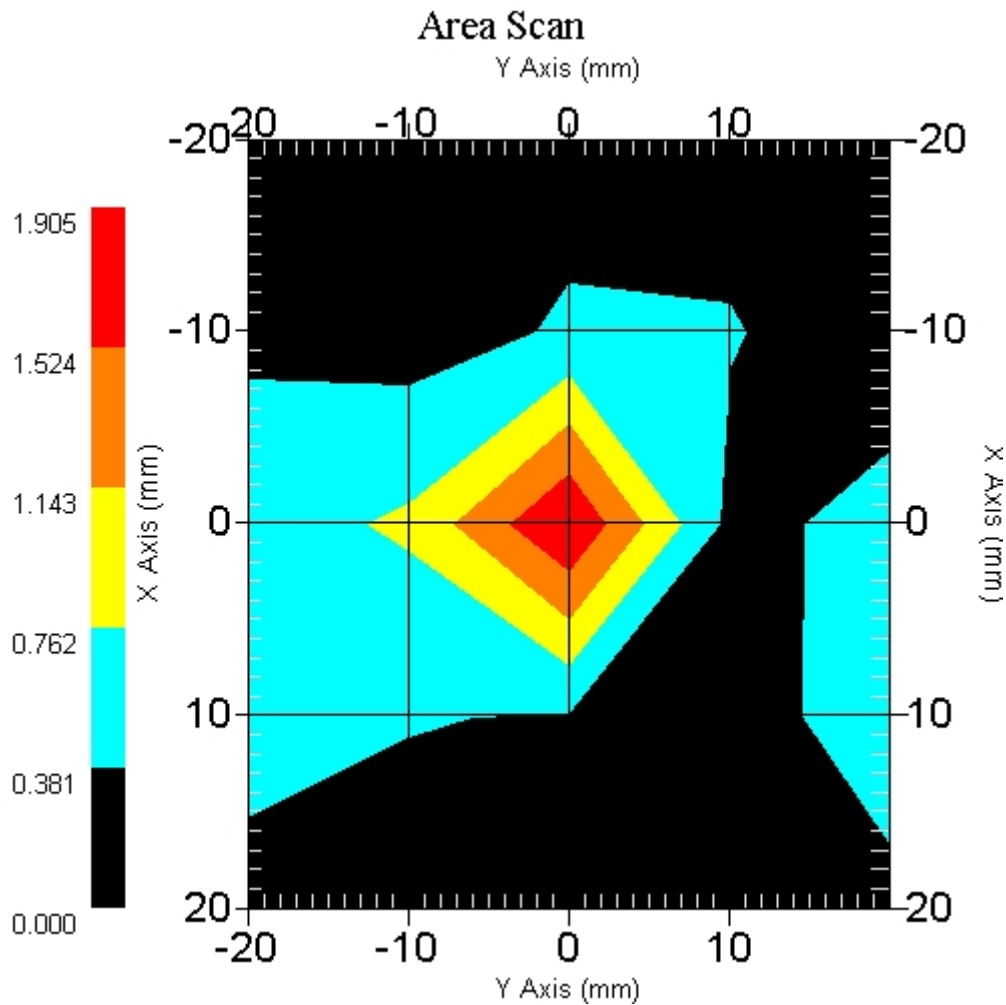
Name : Probe 215 - RFEL
Model : E020
Type : E-Field Triangle
Serial No. : 215
Last Calib. Date : 10-Jun-2005
Frequency : 5800.00 MHz
Duty Cycle Factor: 1
Conversion Factor: 2.1
Probe Sensitivity: 1.20 1.20 1.20 $\mu\text{V}/(\text{V}/\text{m})^2$
Compression Point: 95.00 mV
Offset : 1.56 mm

Measurement Data

Crest Factor : 1
 Scan Type : Complete
 Tissue Temp. : 20.00 °C
 Ambient Temp. : 21.00 °C
 Set-up Date : 20-Mar-2006
 Set-up Time : 9:22:56 AM
 Area Scan : 5x5x1 : Measurement x=10mm, y=10mm, z=4mm
 Zoom Scan : 5x5x8 : Measurement x=8mm, y=8mm, z=4mm

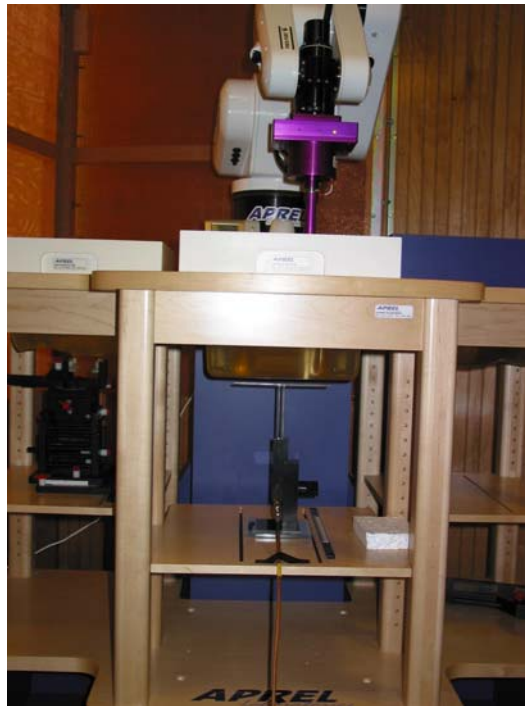
Other Data

DUT Position : End
 Separation : 0
 Channel : Mid - 153

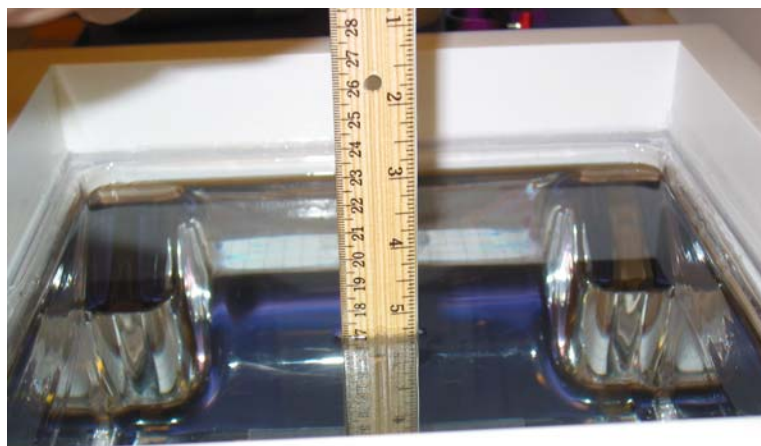


1 gram SAR value : 1.262 W/kg
 10 gram SAR value : 0.498 W/kg
 Area Scan Peak SAR : 1.904 W/kg
 Zoom Scan Peak SAR : 4.463 W/kg

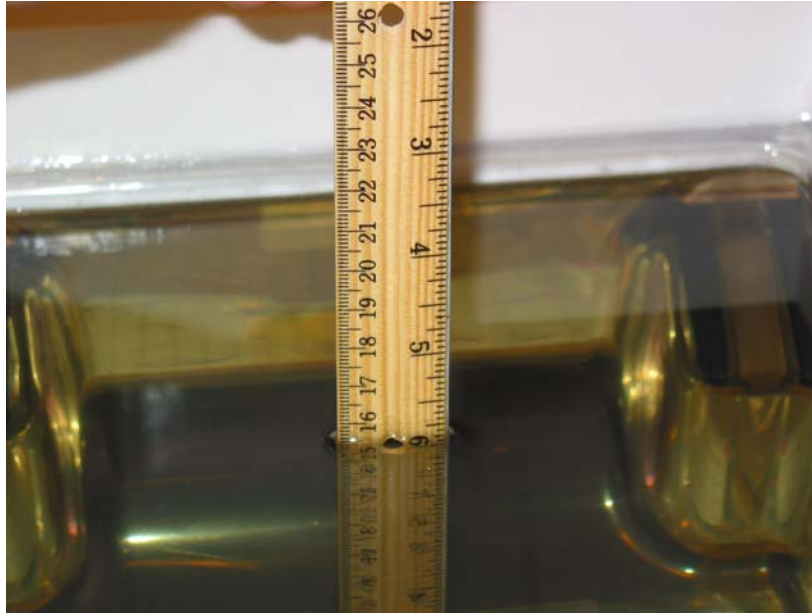
Appendix C – SAR Test Setup Photos



System Body Configuration



Glycol Body Tissue Depth



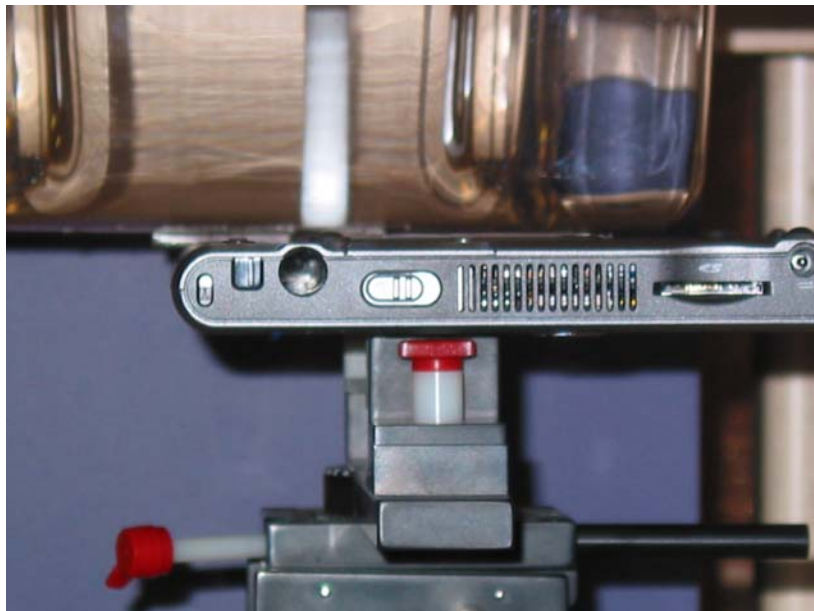
Sugar Body Tissue Depth



Main Antenna Back Test Position Front View



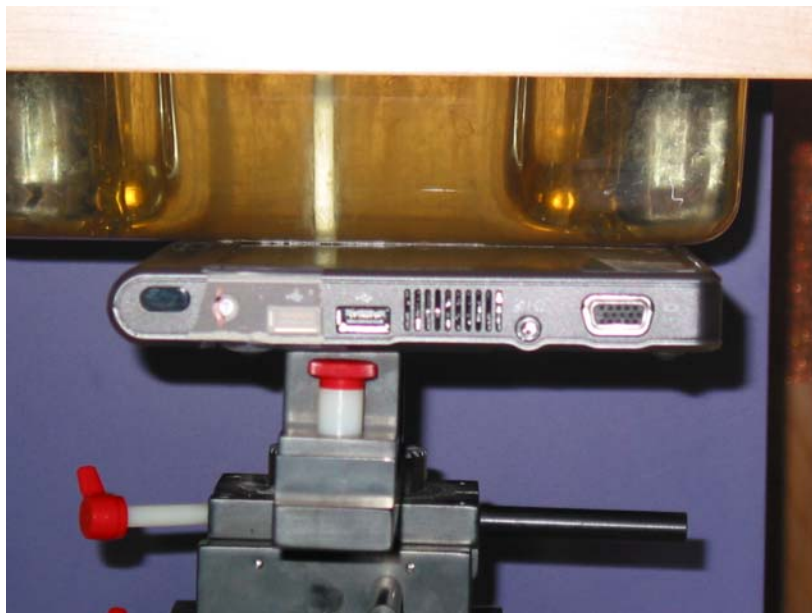
Main Antenna Back Test Position Side View



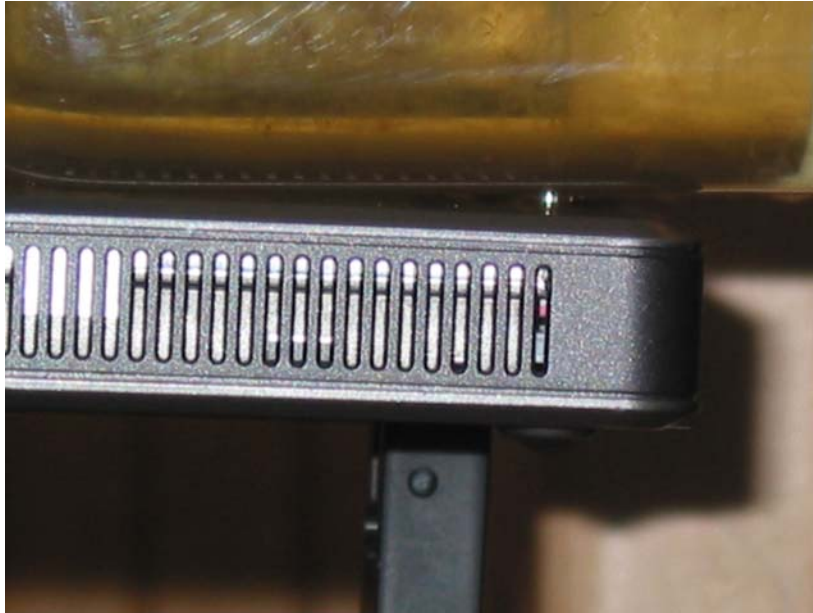
Aux Antenna Back Test Position Front View



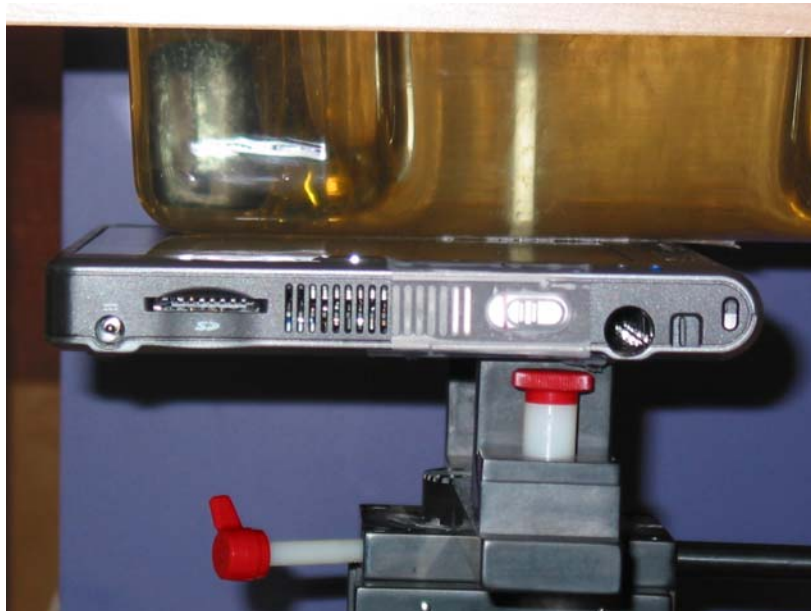
Aux Antenna Back Test Position Side View



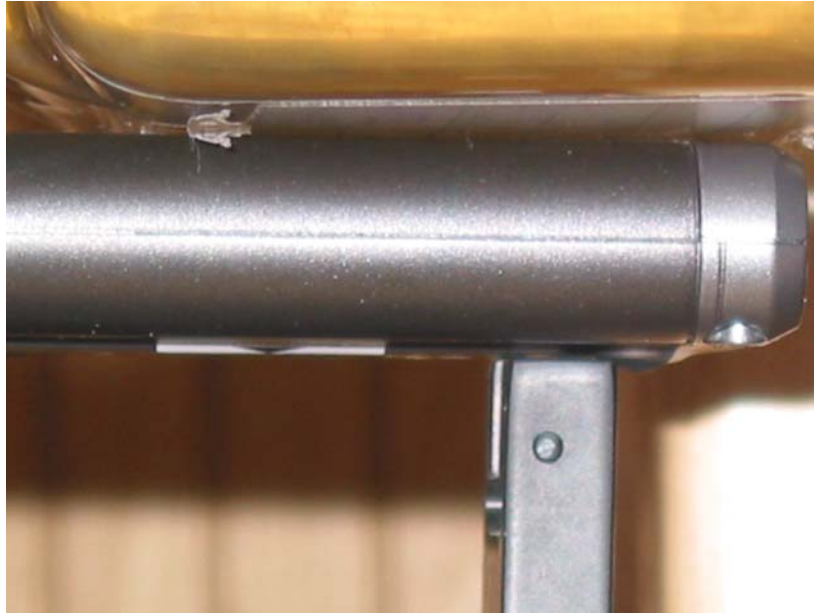
Main Antenna Front Test Position Front View



Main Antenna Front Test Position Side View



Aux Antenna Front Test Position Front View



Aux Antenna Front Test Position Side View



Main Antenna End Test Position Front View



Main Antenna End Test Position Close-up View



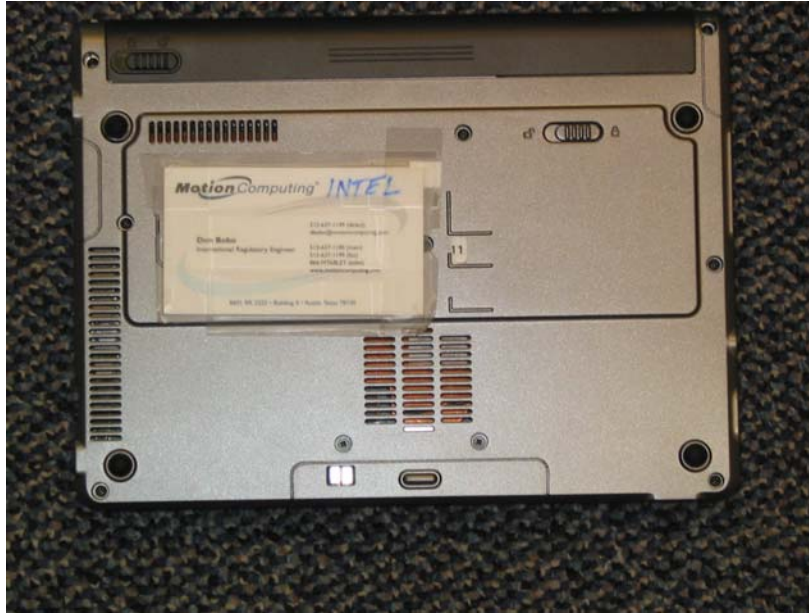
Aux Antenna End Test Position Front View



Aux Antenna End Test Position Close-up View



Device Front View



Device Back View



Radio Card



Battery Top View



Battery Inside View

Appendix D – Probe Calibration Data Sheets

NCL CALIBRATION LABORATORIES

Calibration File No.: CP-606

Client.: RFEL

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.: E-020

Serial No.: 215

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

Project No: RFEL-Probe-215-Calibration-5166

BODY Calibration

Calibrated: 10th June 2005
Released on: 10th June 2005

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

Released By: _____ Signature On File

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-020 215.

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 215 was a new probe taken from stock prior to 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
Director Product Development

Janusz Lokaj
Member of Engineering Staff
(Calibration Engineer)

Calibration Results Summary

Probe Type:	E-Field Probe E-020
Serial Number:	215
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

Channel X:	1.2 $\mu\text{V}/(\text{V}/\text{m})^2$
Channel Y:	1.2 $\mu\text{V}/(\text{V}/\text{m})^2$
Channel Z:	1.2 $\mu\text{V}/(\text{V}/\text{m})^2$
Diode Compression Point:	95 mV

Sensitivity in Body Tissue

Frequency: 2450 MHz

Epsilon: 39.2 (+/-5%) **Sigma:** 1.80 S/m (+/-10%)

ConvF

Channel X: 4.6

Channel Y: 4.6

Channel Z: 4.6

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

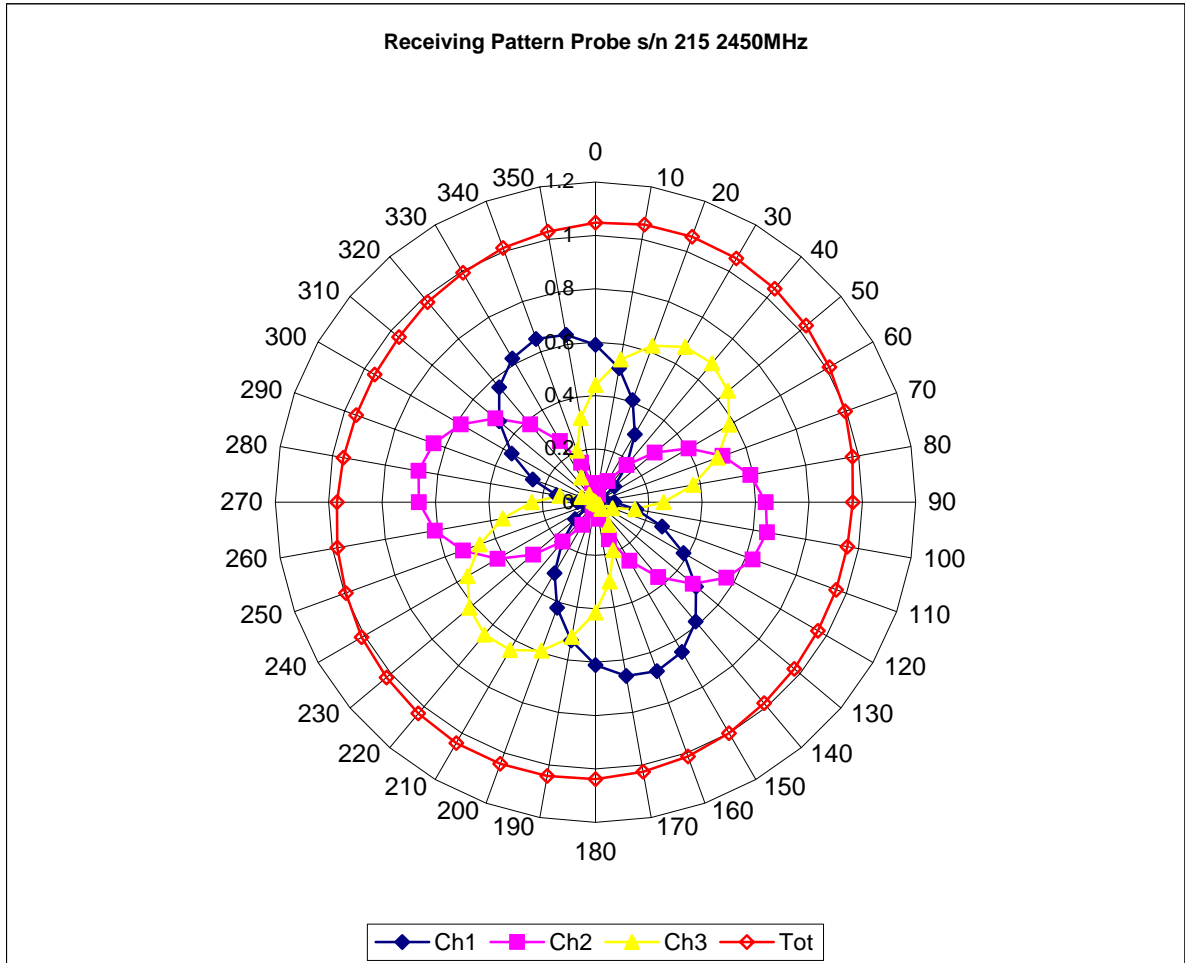
Boundary Effect:

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.

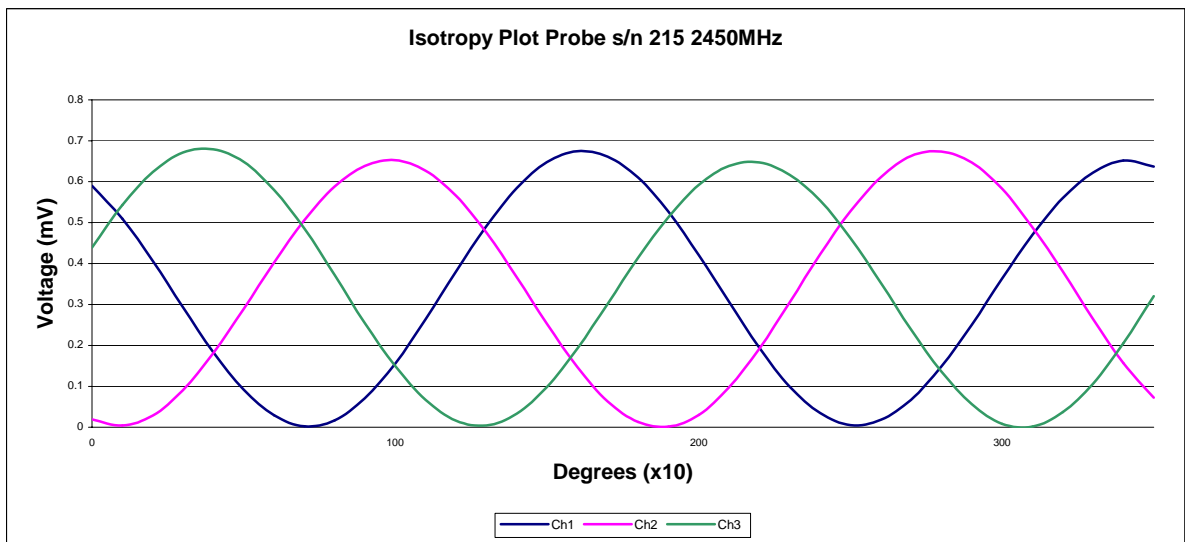
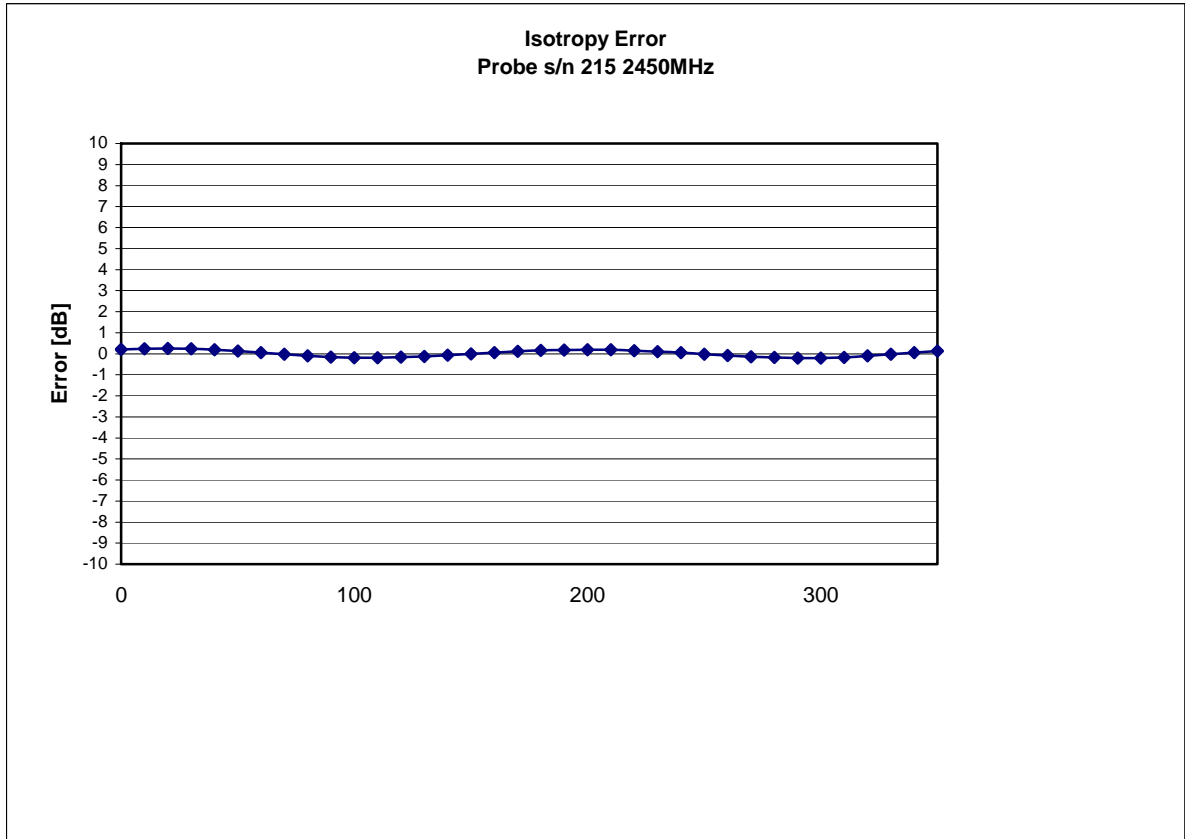
Spatial Resolution:

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)



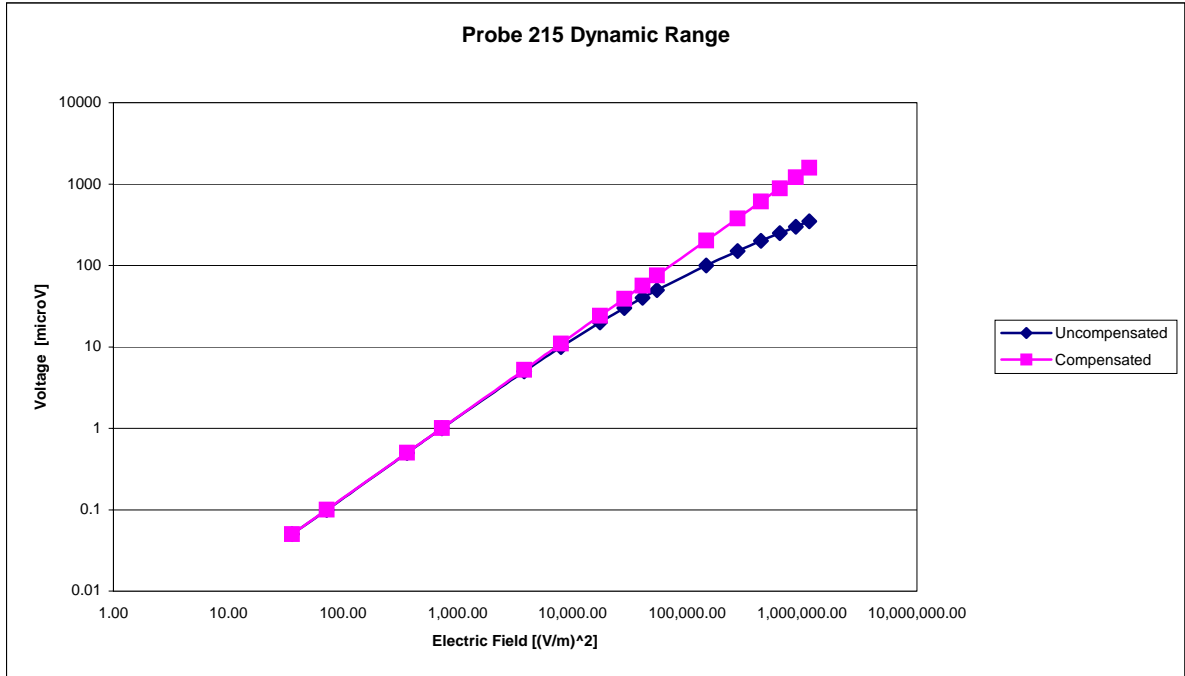
Isotropy Error 2450 MHz (Air)



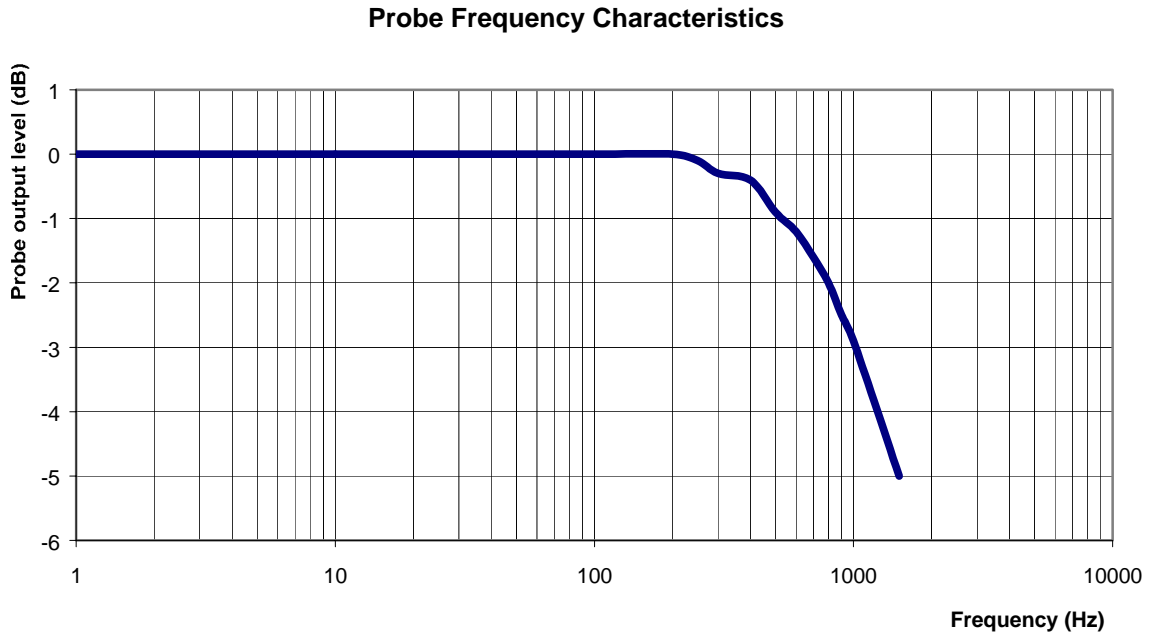
Isotropicity in Tissue:

0.10 dB

Dynamic Range



Video Bandwidth



Video Bandwidth at 500 Hz 1 dB
Video Bandwidth at 1.02 KHz: 3 dB

Conversion Factor Uncertainty Assessment

Frequency: 2450MHz
Epsilon: 39.2 (+/-5%) **Sigma:** 1.80 S/m (+/-10%)

ConvF

Channel X: 4.6 7%(K=2)
Channel Y: 4.6 7%(K=2)
Channel Z: 4.6 7%(K=2)

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

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 2005.

NCL CALIBRATION LABORATORIES

Calibration File No.: CP-607

Client.: RFEL

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.: E-020

Serial No.: 215

BODY Calibration

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

Project No: RFEL-Probe-215-Calibration-5166

Calibrated: 10th June 2005
Released on: 10th June 2005

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

Released By: _____ Signature On File

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-020 215.

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 215 was a new probe taken from stock prior to 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
Director Product Development

Janusz Lokaj
Member of Engineering Staff
(Calibration Engineer)

Calibration Results Summary

Probe Type:	E-Field Probe E-020
Serial Number:	215
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

*Resistive to recommended tissue recipes per IEEE-1528

Sensitivity in Air

Channel X:	1.2 $\mu\text{V}/(\text{V}/\text{m})^2$
Channel Y:	1.2 $\mu\text{V}/(\text{V}/\text{m})^2$
Channel Z:	1.2 $\mu\text{V}/(\text{V}/\text{m})^2$
Diode Compression Point:	95 mV

Sensitivity in Body Tissue

Frequency:

5200 MHz

Epsilon: 43.4 (+/-5%)

Sigma: 5.7 S/m (+/-10%)

ConvF

Channel X: 2.8

Channel Y: 2.8

Channel Z: 2.8

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

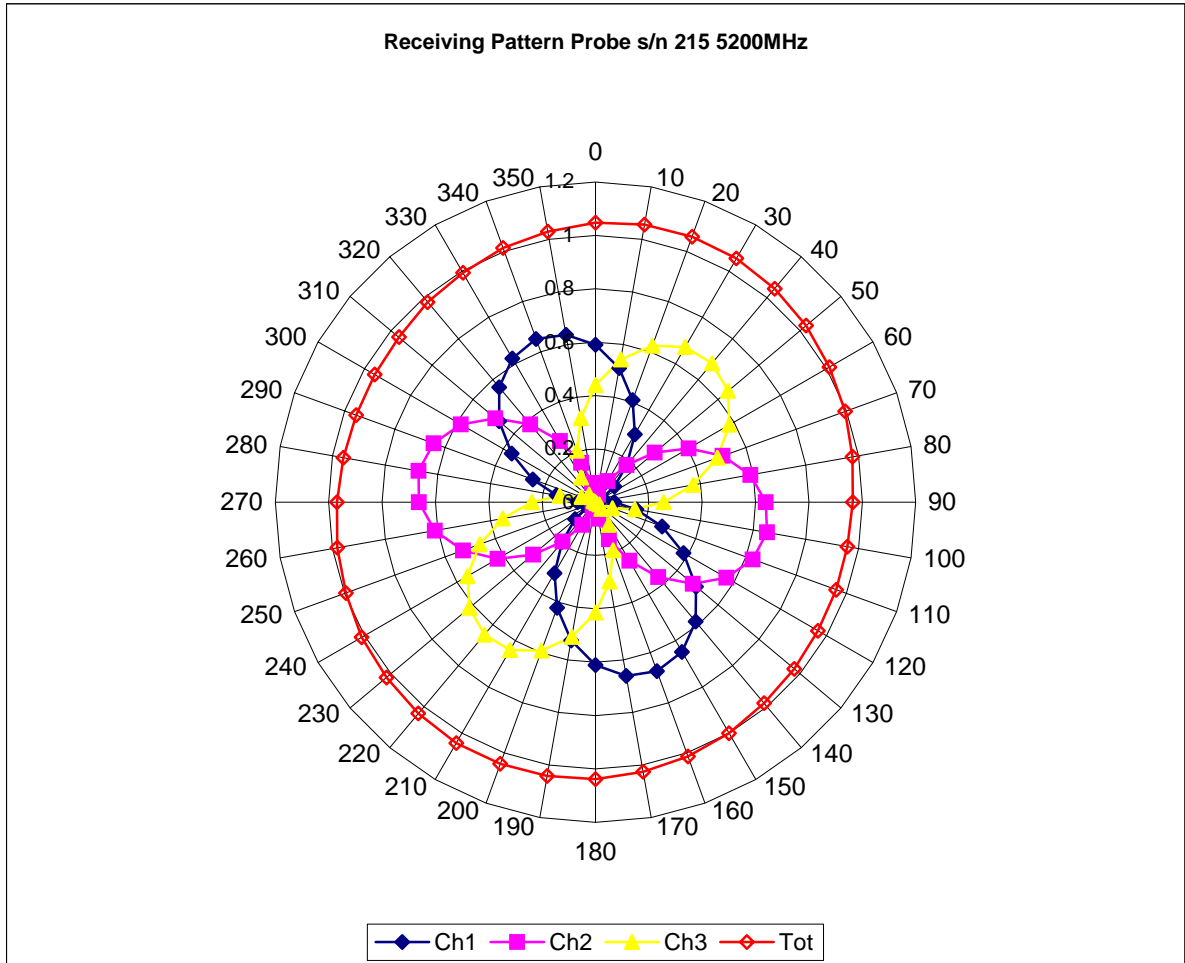
Boundary Effect:

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.

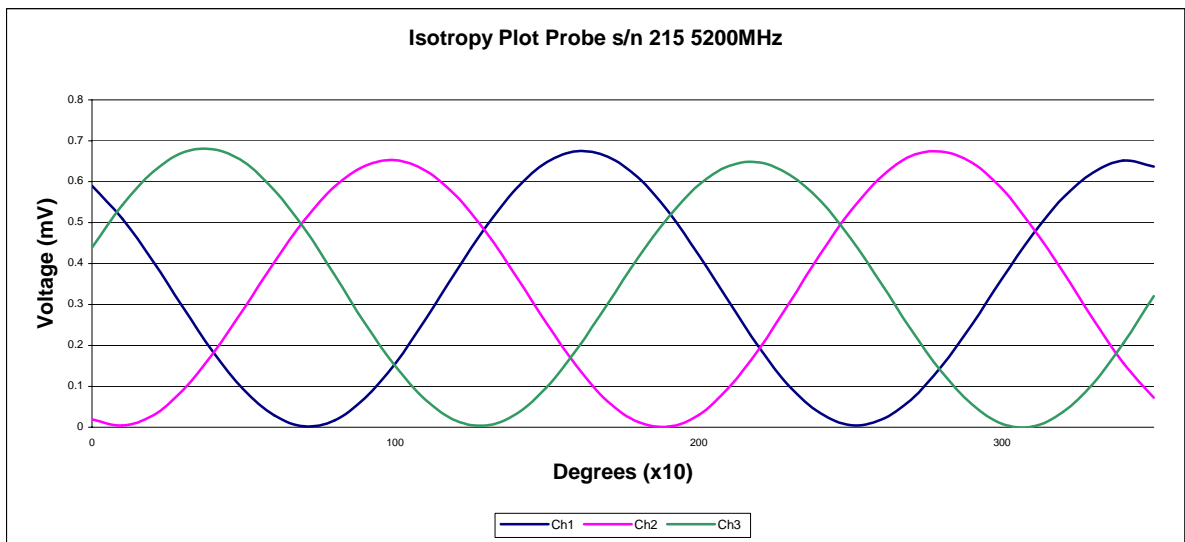
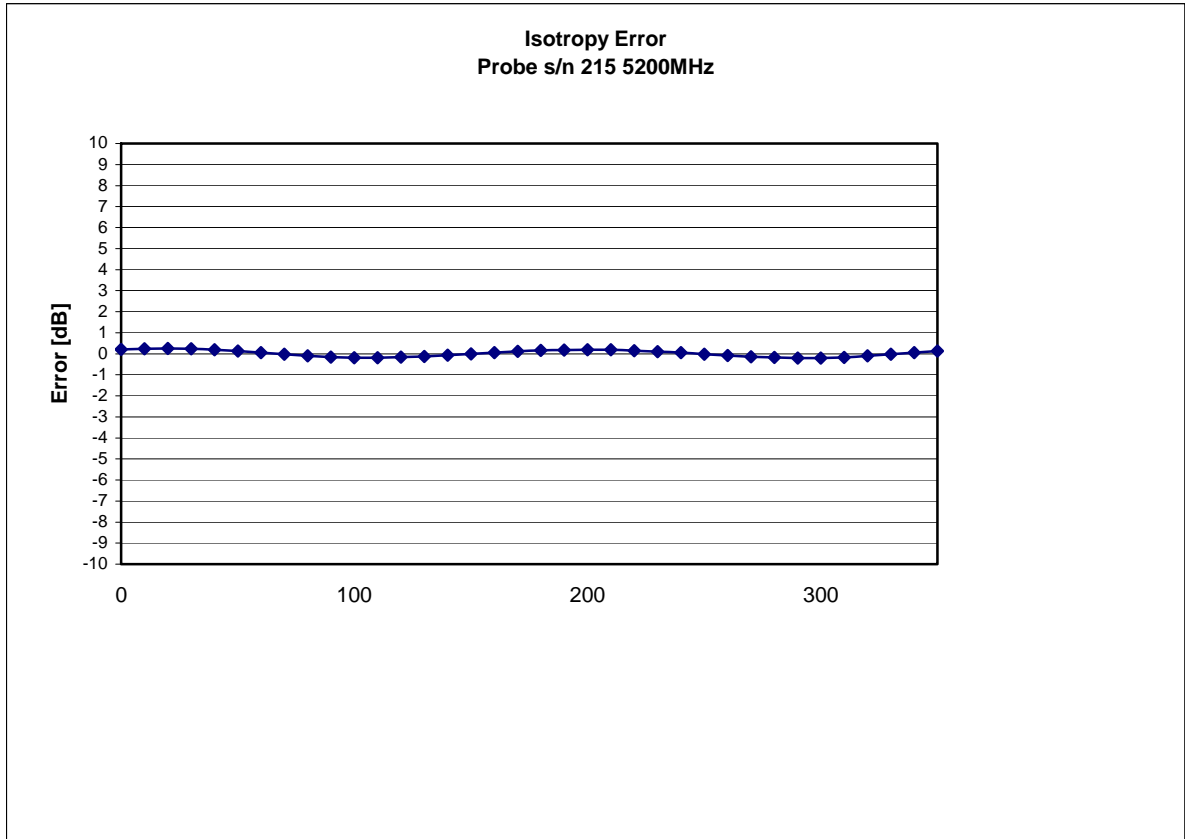
Spatial Resolution:

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)



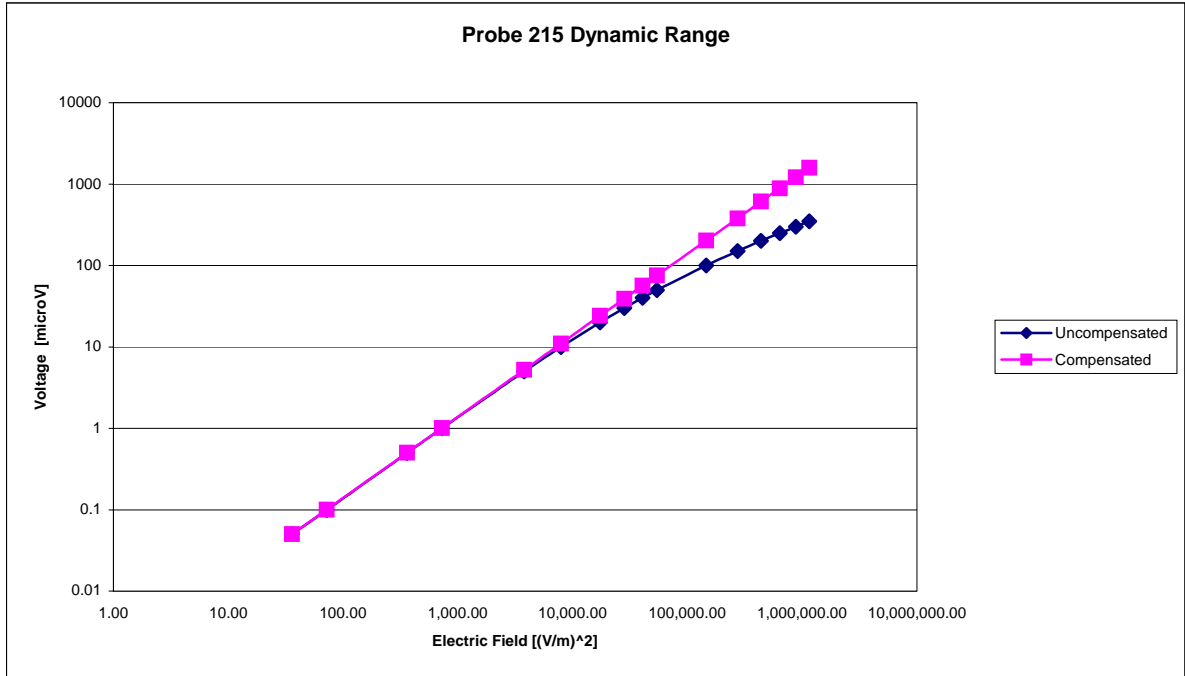
Isotropy Error 5200 MHz (Air)



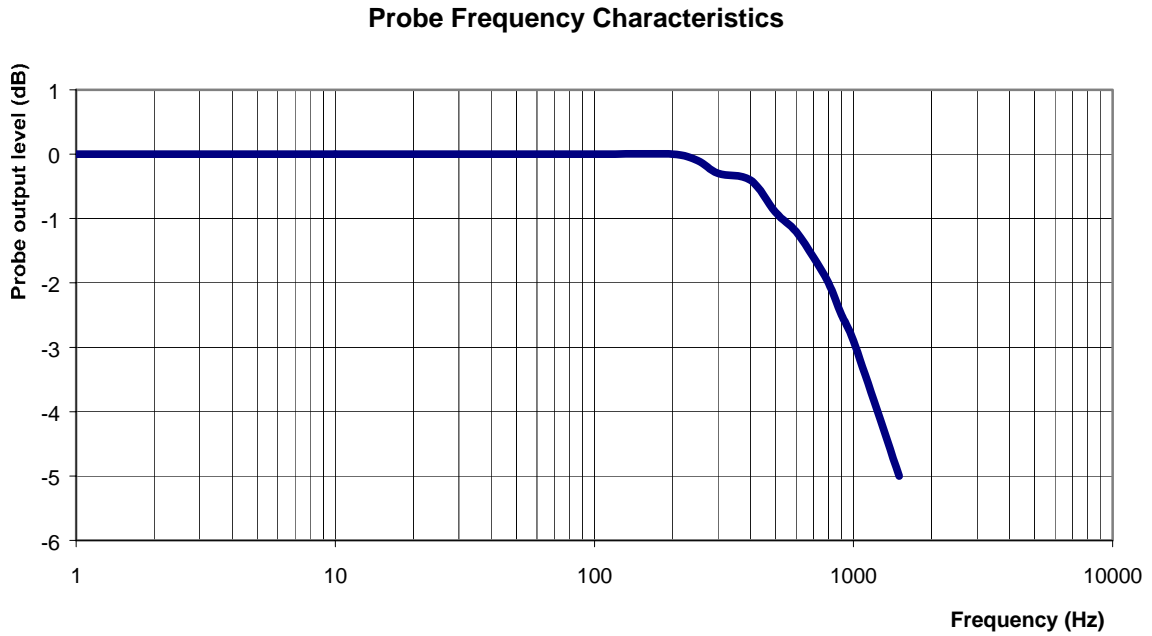
Isotropicity in Tissue:

0.10 dB

Dynamic Range



Video Bandwidth



Video Bandwidth at 500 Hz 1 dB
Video Bandwidth at 1.02 KHz: 3 dB

Conversion Factor Uncertainty Assessment

Frequency: 5200MHz
Epsilon: 43.4 (+/-5%) **Sigma:** 5.7 S/m (+/-10%)

ConvF

Channel X: 2.8 7%(K=2)
Channel Y: 2.8 7%(K=2)
Channel Z: 2.8 7%(K=2)

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

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 2005.

NCL CALIBRATION LABORATORIES

Calibration File No.: CP-609

Client.: RFEL

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 5800 MHz

Manufacturer: APREL Laboratories

Model No.: E-020

Serial No.: 215

BODY Calibration

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

Project No: RFEL-Probe-215-Calibration-5166

Calibrated: 10th June 2005
Released on: 10th June 2005

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

Released By: _____ Signature On File

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-020 215.

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 215 was a new probe taken from stock prior to 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
Director Product Development

Janusz Lokaj
Member of Engineering Staff
(Calibration Engineer)

Calibration Results Summary

Probe Type:	E-Field Probe E-020
Serial Number:	215
Frequency:	5800 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

Channel X:	$1.2 \mu\text{V}/(\text{V}/\text{m})^2$
Channel Y:	$1.2 \mu\text{V}/(\text{V}/\text{m})^2$
Channel Z:	$1.2 \mu\text{V}/(\text{V}/\text{m})^2$
Diode Compression Point:	95 mV

Sensitivity in Body Tissue

Frequency: 5800 MHz

Epsilon: 49.6 (+/-5%) **Sigma:** 6.25 S/m (+/-10%)

ConvF

Channel X: 2.1

Channel Y: 2.1

Channel Z: 2.1

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

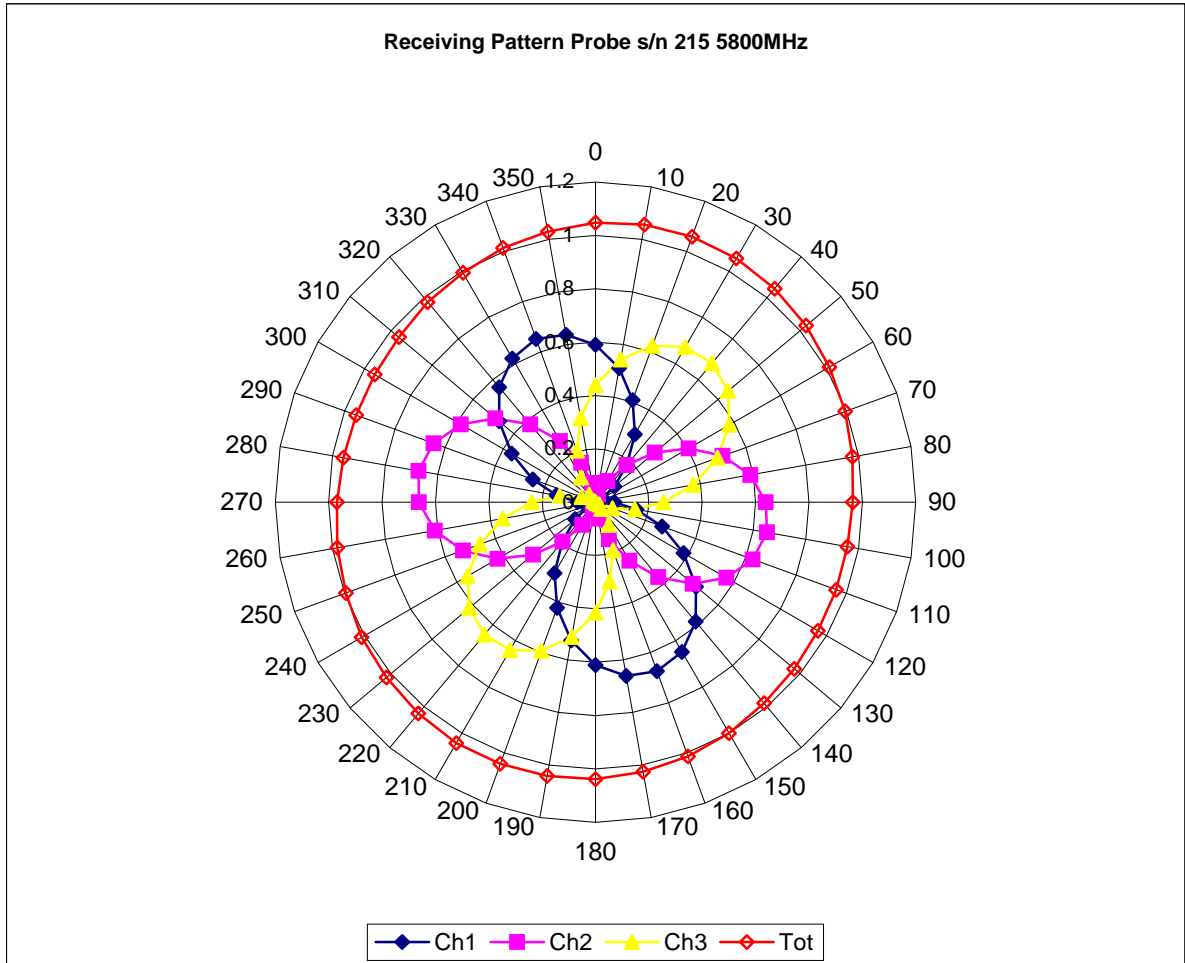
Boundary Effect:

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.

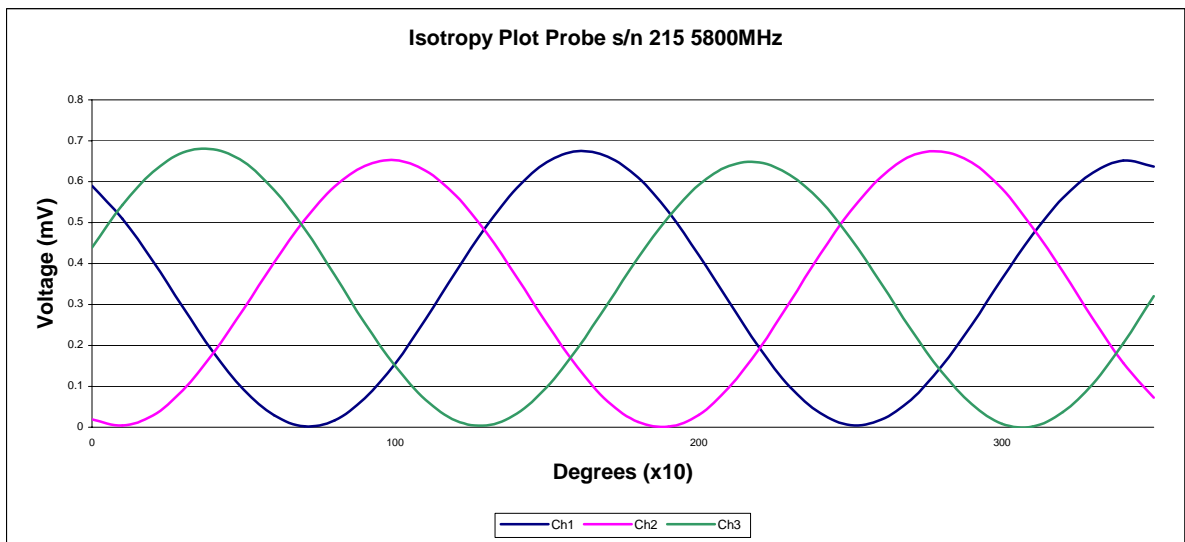
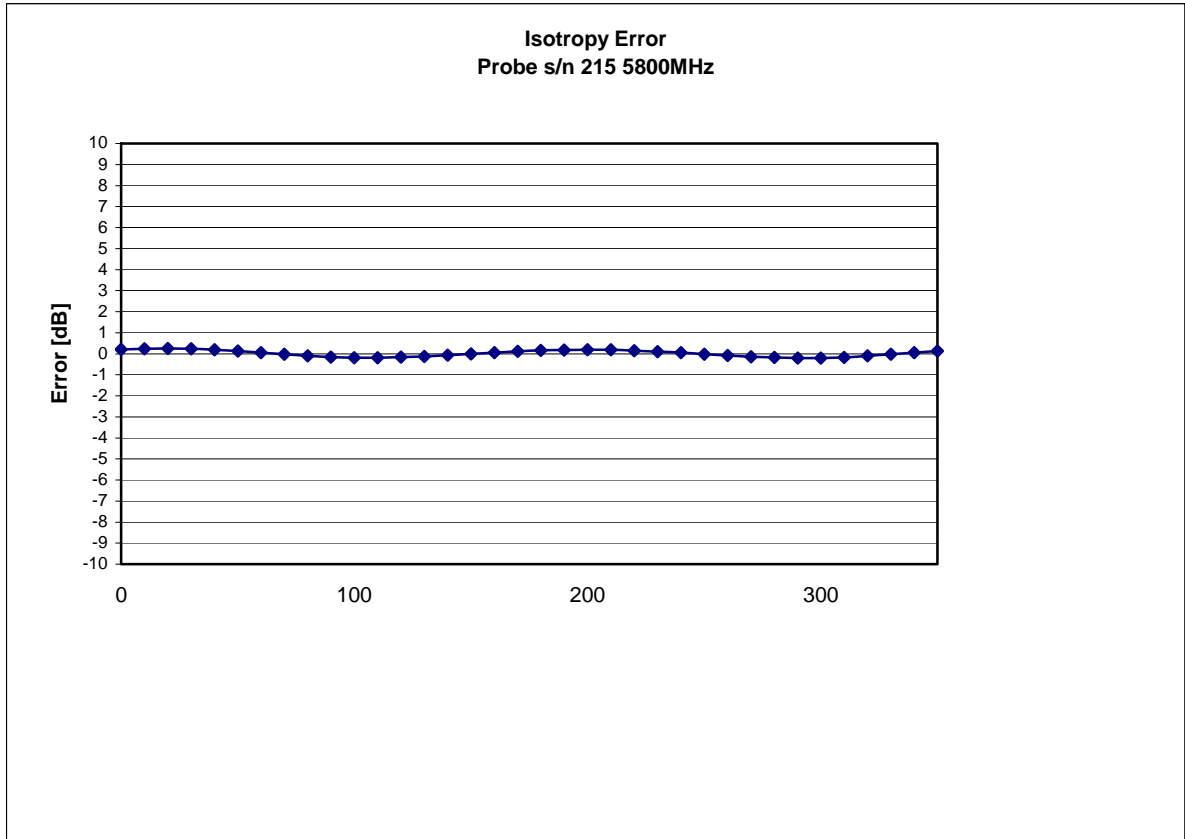
Spatial Resolution:

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 5800 MHz (Air)



Isotropy Error 5800 MHz (Air)



Isotropicity in Tissue:

0.10 dB

Dynamic Range

