

Appendix B – SAR Test Data Plots

SAR Test Report

Operator : Jay
Validation Date : 15-Jun-2005
Measurement Date : 15-Jun-2005
Starting Time : 15-Jun-2005 11:42:08 AM
End Time : 15-Jun-2005 11:54:58 AM
Scanning Time : 770 secs

Product Data
Device Name : Motion Computing
Serial No. : Intel Module Main Antenna
Type : Other
Model : TS01
Frequency : 5200.00 MHz
Max. Transmit Pwr : 0.05 W
Drift Time : 0 min(s)
Length : 200 mm
Width : 170 mm
Depth : 23 mm
Antenna Type : Internal
Power Drift-Start : 0.291 W/kg
Power Drift-Finish: 0.277 W/kg
Power Drift (%) : -4.811

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. : 5200
Frequency : 5200 MHz
Last Calib. Date : 15-Jun-2005
Temperature : 21 °C
Ambient Temp. : 23 °C
Humidity : 62 RH%
Epsilon : 48.42 F/m
Sigma : 5.23 S/m
Density : 1000 kg/cu. m

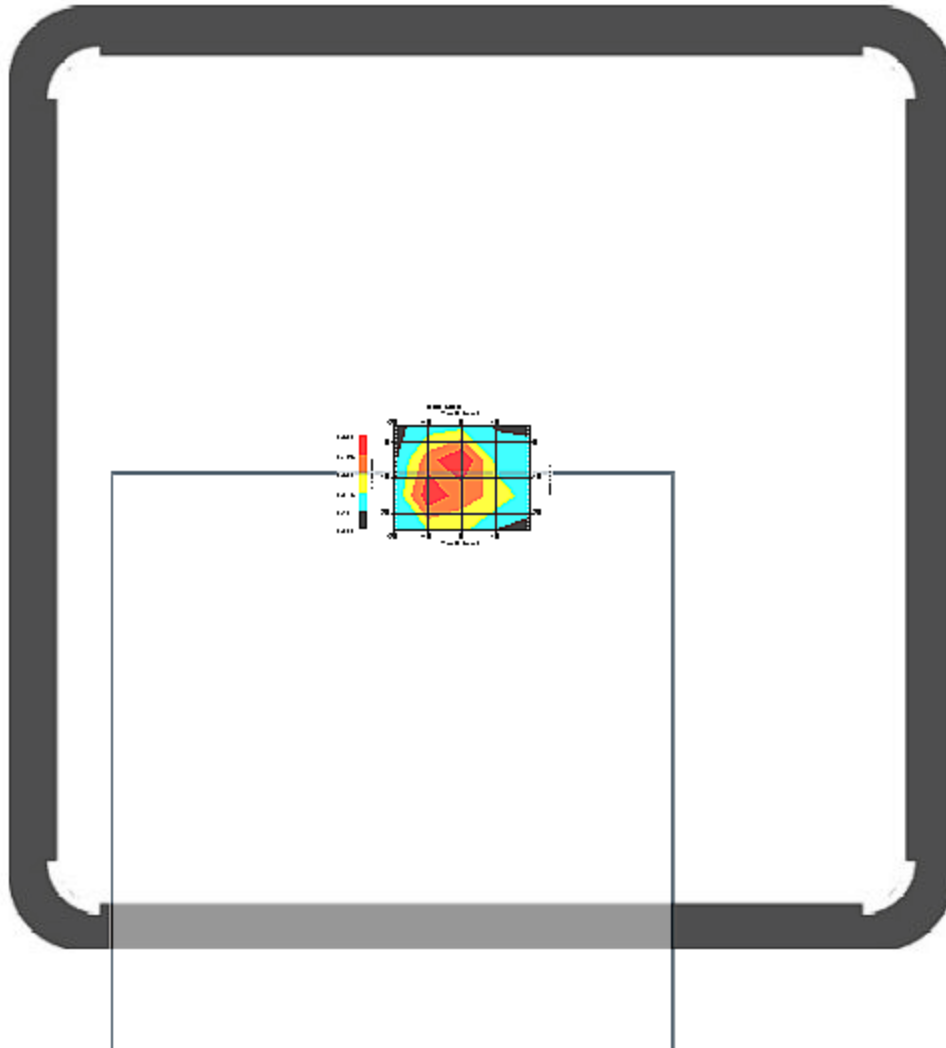
Probe Data
Name : Probe 215 - RFEL
Model : E020
Type : E-Field Triangle
Serial No. : 215
Last Calib. Date : 10-Jun-2005
Frequency : 5200 MHz
Duty Cycle Factor: 1
Conversion Factor: 2.8
Probe Sensitivity: 1.20 1.20 1.20 $\mu\text{V}/(\text{V}/\text{m})^2$
Compression Point: 95 mV
Offset : 1.56 mm

Measurement Data

Crest Factor : 1
Scan Type : Complete
Tissue Temp. : 21°C
Ambient Temp. : 23°C
Set-up Date : 15-Jun-2005
Set-up Time : 7:49:26 AM
Area Scan : 4x5x1 : Measurement x=10mm, y=10mm, z=4mm
Zoom Scan : 5x5x8 : Measurement x=8mm, y=8mm, z=4mm

Other Data

DUT Position : Touch
Separation : 0
Channel : Mid - 5240



1 gram SAR value : 0.669 W/kg
10 gram SAR value : 0.241 W/kg
Area Scan Peak SAR : 0.618 W/kg
Zoom Scan Peak SAR : 2.181 W/kg

Exposure Assessment Measurement Uncertainty

Source of Uncertainty	Tolerance Value	Probability Distribution	Divisor	c_i^{-1} (1-g)	c_i^{-1} (10-g)	Standard Uncertainty (1-g) %	Standard Uncertainty (10-g) %
Measurement System							
Probe Calibration	3.5	normal	1	1	1	3.5	3.5
Axial Isotropy	3.7	rectangular	•3	$(1-cp)^{1/2}$	$(1-cp)^{1/2}$	1.5	1.5
Hemispherical Isotropy	10.9	rectangular	•3	•cp	•cp	4.4	4.4
Boundary Effect	1.0	rectangular	•3	1	1	0.6	0.6
Linearity	4.7	rectangular	•3	1	1	2.7	2.7
Detection Limit	1.0	rectangular	•3	1	1	0.6	0.6
Readout Electronics	1.0	normal	1	1	1	1.0	1.0
Response Time	0.8	rectangular	•3	1	1	0.5	0.5
Integration Time	1.7	rectangular	•3	1	1	1.0	1.0
RF Ambient Condition	3.0	rectangular	•3	1	1	1.7	1.7
Probe Positioner Mech.	0.4	rectangular	•3	1	1	0.2	0.2
Restriction							
Probe Positioning with respect to Phantom Shell	2.9	rectangular	•3	1	1	1.7	1.7
Extrapolation and Integration	3.7	rectangular	•3	1	1	2.1	2.1
Test Sample Positioning	4.0	normal	1	1	1	4.0	4.0
Device Holder Uncertainty	2.0	normal	1	1	1	2.0	2.0
Drift of Output Power	8.4	rectangular	•3	1	1	4.8	4.8
Phantom and Setup							
Phantom Uncertainty(shape & thickness tolerance)	3.4	rectangular	•3	1	1	2.0	2.0
Liquid Conductivity(target)	5.0	rectangular	•3	0.7	0.5	2.0	1.4
Liquid Conductivity(meas.)	520.5	normal	1	0.7	0.5	364.3	260.2
Liquid Permittivity(target)	5.0	rectangular	•3	0.6	0.5	1.7	1.4
Liquid Permittivity(meas.)	16.7	normal	1	0.6	0.5	10.0	8.4
Combined Uncertainty		RSS				364.6	260.5
Combined Uncertainty (coverage factor=2)		Normal (k=2)				729.2	521.1

SAR Test Report

Operator : Jay
Validation Date : 15-Jun-2005
Measurement Date : 15-Jun-2005
Starting Time : 15-Jun-2005 01:30:58 PM
End Time : 15-Jun-2005 01:42:34 PM
Scanning Time : 756 secs

Product Data

Device Name : Motion Computing
Serial No. : Gemtech Module Main Antenna
Type : Other
Model : TS01
Frequency : 5200.00 MHz
Max. Transmit Pwr : 0.05 W
Drift Time : 0 min(s)
Length : 200 mm
Width : 170 mm
Depth : 23 mm
Antenna Type : Internal
Power Drift-Start : 0.174 W/kg
Power Drift-Finish: 0.166 W/kg
Power Drift (%) : -4.598

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. : 5200
Frequency : 5200 MHz
Last Calib. Date : 15-Jun-2005
Temperature : 21 °C
Ambient Temp. : 23 °C
Humidity : 62 RH%
Epsilon : 48.42 F/m
Sigma : 5.23 S/m
Density : 1000 kg/cu. m

Probe Data

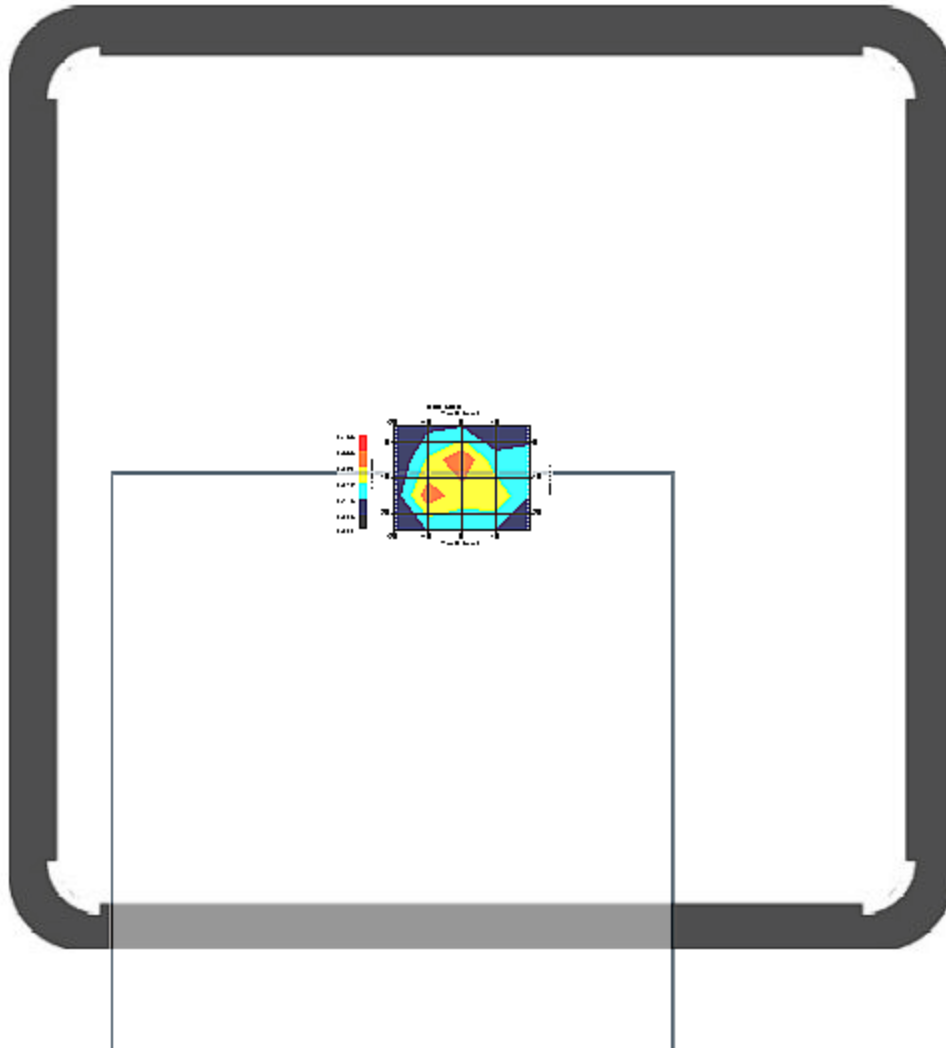
Name : Probe 215 - RFEL
Model : E020
Type : E-Field Triangle
Serial No. : 215
Last Calib. Date : 10-Jun-2005
Frequency : 5200 MHz
Duty Cycle Factor: 1
Conversion Factor: 2.8
Probe Sensitivity: 1.20 1.20 1.20 $\mu\text{V}/(\text{V}/\text{m})^2$
Compression Point: 95 mV
Offset : 1.56 mm

Measurement Data

Crest Factor : 1
Scan Type : Complete
Tissue Temp. : 21°C
Ambient Temp. : 23°C
Set-up Date : 15-Jun-2005
Set-up Time : 9:37:41 AM
Area Scan : 4x5x1 : Measurement x=10mm, y=10mm, z=4mm
Zoom Scan : 5x5x8 : Measurement x=8mm, y=8mm, z=4mm

Other Data

DUT Position : Touch
Separation : 0
Channel : Mid - 5240



1 gram SAR value : 0.359 W/kg
10 gram SAR value : 0.143 W/kg
Area Scan Peak SAR : 0.366 W/kg
Zoom Scan Peak SAR : 1.140 W/kg

Exposure Assessment Measurement Uncertainty

Source of Uncertainty	Tolerance Value	Probability Distribution	Divisor	c_i^{-1} (1-g)	c_i^{-1} (10-g)	Standard Uncertainty (1-g) %	Standard Uncertainty (10-g) %
Measurement System							
Probe Calibration	3.5	normal	1	1	1	3.5	3.5
Axial Isotropy	3.7	rectangular	•3	$(1-cp)^{1/2}$	$(1-cp)^{1/2}$	1.5	1.5
Hemispherical Isotropy	10.9	rectangular	•3	•cp	•cp	4.4	4.4
Boundary Effect	1.0	rectangular	•3	1	1	0.6	0.6
Linearity	4.7	rectangular	•3	1	1	2.7	2.7
Detection Limit	1.0	rectangular	•3	1	1	0.6	0.6
Readout Electronics	1.0	normal	1	1	1	1.0	1.0
Response Time	0.8	rectangular	•3	1	1	0.5	0.5
Integration Time	1.7	rectangular	•3	1	1	1.0	1.0
RF Ambient Condition	3.0	rectangular	•3	1	1	1.7	1.7
Probe Positioner Mech.	0.4	rectangular	•3	1	1	0.2	0.2
Restriction							
Probe Positioning with respect to Phantom Shell	2.9	rectangular	•3	1	1	1.7	1.7
Extrapolation and Integration	3.7	rectangular	•3	1	1	2.1	2.1
Test Sample Positioning	4.0	normal	1	1	1	4.0	4.0
Device Holder Uncertainty	2.0	normal	1	1	1	2.0	2.0
Drift of Output Power	22.1	rectangular	•3	1	1	12.8	12.8
Phantom and Setup							
Phantom Uncertainty(shape & thickness tolerance)	3.4	rectangular	•3	1	1	2.0	2.0
Liquid Conductivity(target)	5.0	rectangular	•3	0.7	0.5	2.0	1.4
Liquid Conductivity(meas.)	530.1	normal	1	0.7	0.5	371.1	265.1
Liquid Permittivity(target)	5.0	rectangular	•3	0.6	0.5	1.7	1.4
Liquid Permittivity(meas.)	16.5	normal	1	0.6	0.5	9.9	8.3
Combined Uncertainty		RSS				371.6	265.7
Combined Uncertainty (coverage factor=2)		Normal (k=2)				743.1	531.4

SAR Test Report

Operator : Jay
Validation Date : 15-Jun-2005
Measurement Date : 15-Jun-2005
Starting Time : 15-Jun-2005 10:35:41 AM
End Time : 15-Jun-2005 10:47:20 AM
Scanning Time : 759 secs

Product Data

Device Name : Motion Computing
Serial No. : Intel Module Aux Antenna
Type : Other
Model : TS01
Frequency : 5200.00 MHz
Max. Transmit Pwr : 0.05 W
Drift Time : 0 min(s)
Length : 200 mm
Width : 170 mm
Depth : 23 mm
Antenna Type : Internal
Power Drift-Start : 0.310 W/kg
Power Drift-Finish: 0.296 W/kg
Power Drift (%) : -4.516

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. : 5200
Frequency : 5200 MHz
Last Calib. Date : 15-Jun-2005
Temperature : 21 °C
Ambient Temp. : 23 °C
Humidity : 62 RH%
Epsilon : 48.29 F/m
Sigma : 5.15 S/m
Density : 1000 kg/cu. m

Probe Data

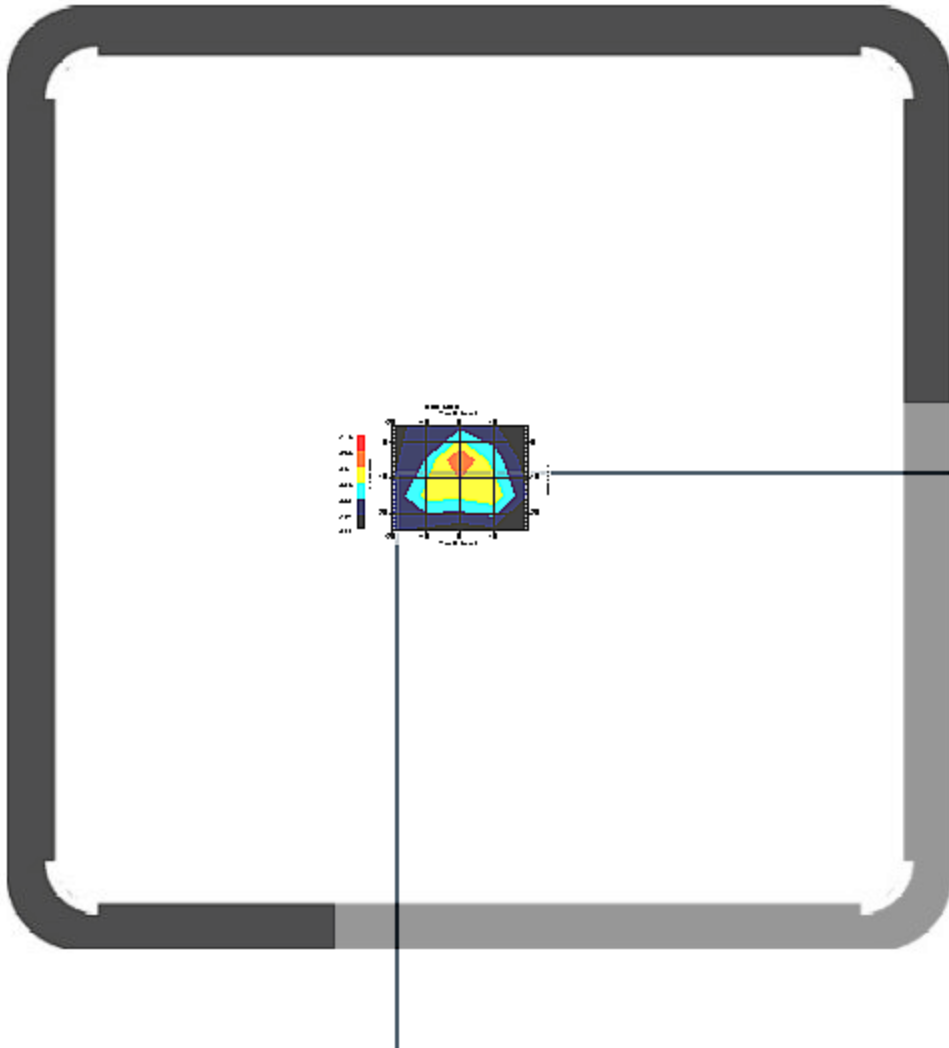
Name : Probe 215 - RFEL
Model : E020
Type : E-Field Triangle
Serial No. : 215
Last Calib. Date : 10-Jun-2005
Frequency : 5200 MHz
Duty Cycle Factor: 1
Conversion Factor: 2.8
Probe Sensitivity: 1.20 1.20 1.20 $\mu\text{V}/(\text{V}/\text{m})^2$
Compression Point: 95 mV
Offset : 1.56 mm

Measurement Data

Crest Factor : 1
Scan Type : Complete
Tissue Temp. : 21°C
Ambient Temp. : 23°C
Set-up Date : 15-Jun-2005
Set-up Time : 10:25:51 AM
Area Scan : 4x5x1 : Measurement x=10mm, y=10mm, z=4mm
Zoom Scan : 5x5x8 : Measurement x=8mm, y=8mm, z=4mm

Other Data

DUT Position : Touch
Separation : 0
Channel : Low - 5180

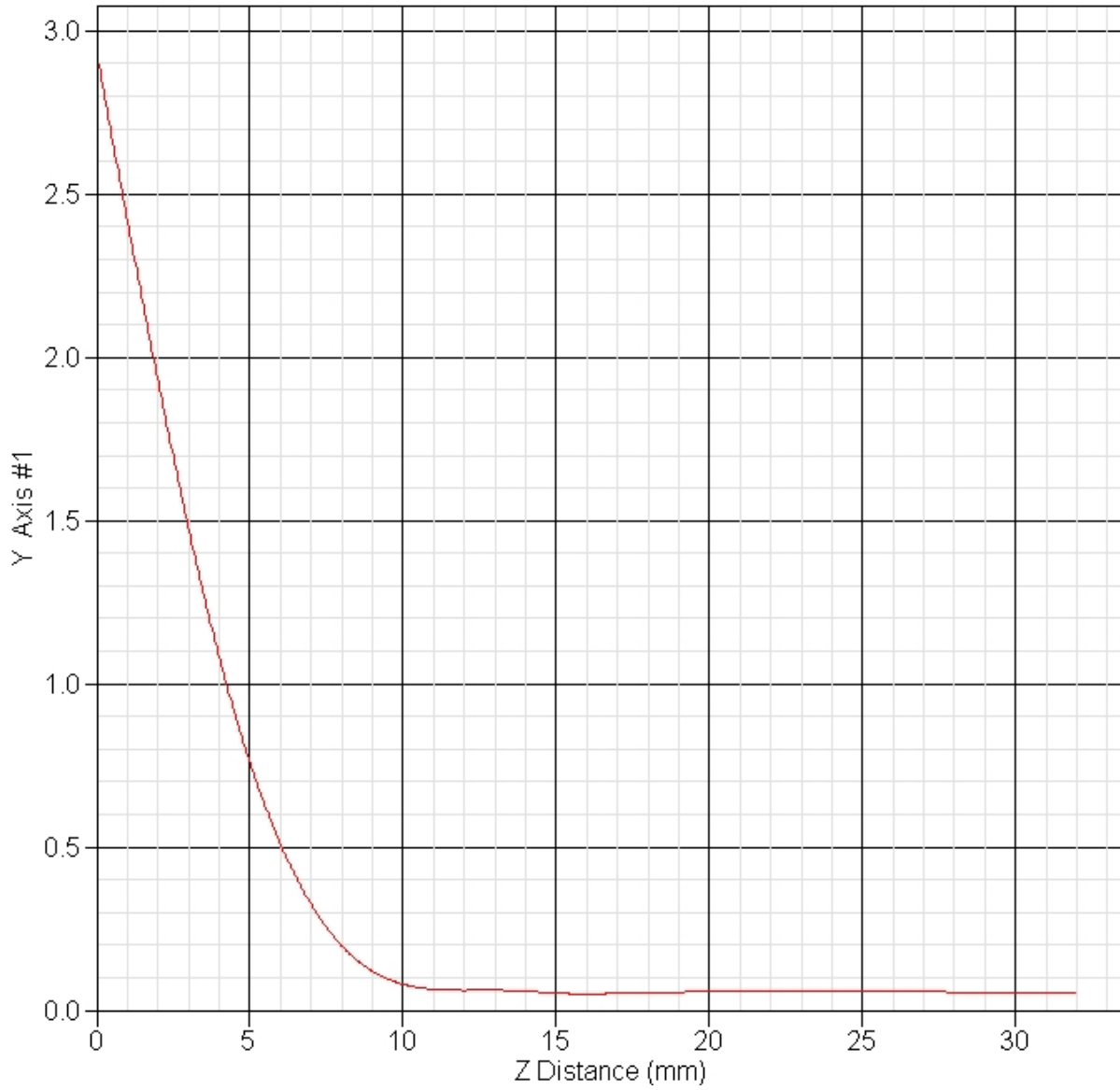


1 gram SAR value : 0.965 W/kg
10 gram SAR value : 0.334 W/kg
Area Scan Peak SAR : 0.957 W/kg
Zoom Scan Peak SAR : 2.932 W/kg

Exposure Assessment Measurement Uncertainty

Source of Uncertainty	Tolerance Value	Probability Distribution	Divisor	c_i^{-1} (1-g)	c_i^{-1} (10-g)	Standard Uncertainty (1-g) %	Standard Uncertainty (10-g) %
Measurement System							
Probe Calibration	3.5	normal	1	1	1	3.5	3.5
Axial Isotropy	3.7	rectangular	•3	$(1-cp)^{1/2}$	$(1-cp)^{1/2}$	1.5	1.5
Hemispherical Isotropy	10.9	rectangular	•3	•cp	•cp	4.4	4.4
Boundary Effect	1.0	rectangular	•3	1	1	0.6	0.6
Linearity	4.7	rectangular	•3	1	1	2.7	2.7
Detection Limit	1.0	rectangular	•3	1	1	0.6	0.6
Readout Electronics	1.0	normal	1	1	1	1.0	1.0
Response Time	0.8	rectangular	•3	1	1	0.5	0.5
Integration Time	1.7	rectangular	•3	1	1	1.0	1.0
RF Ambient Condition	3.0	rectangular	•3	1	1	1.7	1.7
Probe Positioner Mech.	0.4	rectangular	•3	1	1	0.2	0.2
Restriction							
Probe Positioning with respect to Phantom Shell	2.9	rectangular	•3	1	1	1.7	1.7
Extrapolation and Integration	3.7	rectangular	•3	1	1	2.1	2.1
Test Sample Positioning	4.0	normal	1	1	1	4.0	4.0
Device Holder Uncertainty	2.0	normal	1	1	1	2.0	2.0
Drift of Output Power	11.0	rectangular	•3	1	1	6.4	6.4
Phantom and Setup							
Phantom Uncertainty(shape & thickness tolerance)	3.4	rectangular	•3	1	1	2.0	2.0
Liquid Conductivity(target)	5.0	rectangular	•3	0.7	0.5	2.0	1.4
Liquid Conductivity(meas.)	520.5	normal	1	0.7	0.5	364.3	260.2
Liquid Permittivity(target)	5.0	rectangular	•3	0.6	0.5	1.7	1.4
Liquid Permittivity(meas.)	16.7	normal	1	0.6	0.5	10.0	8.4
Combined Uncertainty		RSS				364.6	260.6
Combined Uncertainty (coverage factor=2)		Normal (k=2)				729.2	521.1

SAR-Z Axis
at Hotspot x:13.30 y:-0.40



SAR Test Report

Operator : Jay
Validation Date : 15-Jun-2005
Measurement Date : 15-Jun-2005
Starting Time : 15-Jun-2005 10:55:14 AM
End Time : 15-Jun-2005 11:07:51 AM
Scanning Time : 757 secs

Product Data

Device Name : Motion Computing
Serial No. : Intel Module Aux Antenna
Type : Other
Model : TS01
Frequency : 5200.00 MHz
Max. Transmit Pwr : 0.05 W
Drift Time : 0 min(s)
Length : 200 mm
Width : 170 mm
Depth : 23 mm
Antenna Type : Internal
Power Drift-Start : 0.220 W/kg
Power Drift-Finish: 0.211 W/kg
Power Drift (%) : -4.091

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. : 5200
Frequency : 5200 MHz
Last Calib. Date : 15-Jun-2005
Temperature : 21 °C
Ambient Temp. : 23 °C
Humidity : 62 RH%
Epsilon : 48.42 F/m
Sigma : 5.23 S/m
Density : 1000 kg/cu. m

Probe Data

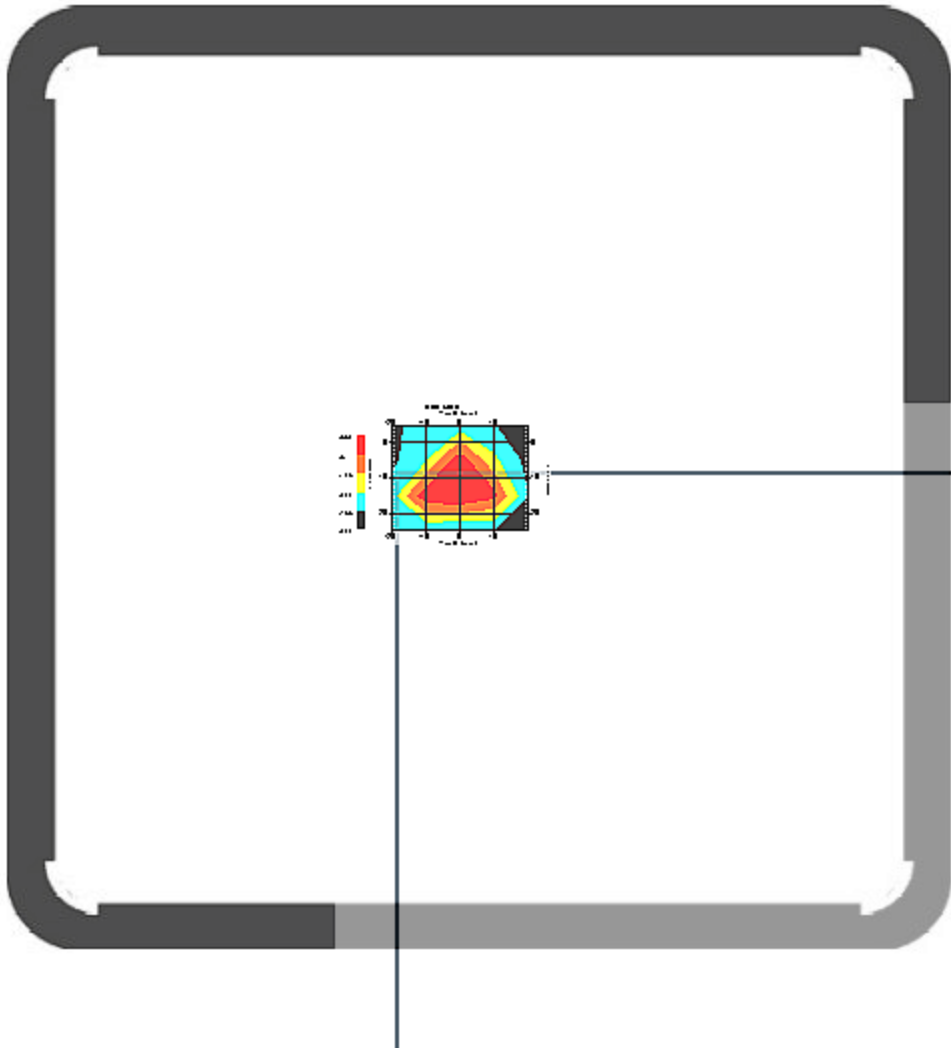
Name : Probe 215 - RFEL
Model : E020
Type : E-Field Triangle
Serial No. : 215
Last Calib. Date : 10-Jun-2005
Frequency : 5200 MHz
Duty Cycle Factor: 1
Conversion Factor: 2.8
Probe Sensitivity: 1.20 1.20 1.20 $\mu\text{V}/(\text{V}/\text{m})^2$
Compression Point: 95 mV
Offset : 1.56 mm

Measurement Data

Crest Factor : 1
Scan Type : Complete
Tissue Temp. : 21°C
Ambient Temp. : 23°C
Set-up Date : 15-Jun-2005
Set-up Time : 10:45:51 AM
Area Scan : 4x5x1 : Measurement x=10mm, y=10mm, z=4mm
Zoom Scan : 5x5x8 : Measurement x=8mm, y=8mm, z=4mm

Other Data

DUT Position : Touch
Separation : 0
Channel : Mid - 5240



1 gram SAR value : 0.849 W/kg
10 gram SAR value : 0.297 W/kg
Area Scan Peak SAR : 0.679 W/kg
Zoom Scan Peak SAR : 2.682 W/kg

Exposure Assessment Measurement Uncertainty

Source of Uncertainty	Tolerance Value	Probability Distribution	Divisor	c_i^{-1} (1-g)	c_i^{-1} (10-g)	Standard Uncertainty (1-g) %	Standard Uncertainty (10-g) %
Measurement System							
Probe Calibration	3.5	normal	1	1	1	3.5	3.5
Axial Isotropy	3.7	rectangular	•3	$(1-cp)^{1/2}$	$(1-cp)^{1/2}$	1.5	1.5
Hemispherical Isotropy	10.9	rectangular	•3	•cp	•cp	4.4	4.4
Boundary Effect	1.0	rectangular	•3	1	1	0.6	0.6
Linearity	4.7	rectangular	•3	1	1	2.7	2.7
Detection Limit	1.0	rectangular	•3	1	1	0.6	0.6
Readout Electronics	1.0	normal	1	1	1	1.0	1.0
Response Time	0.8	rectangular	•3	1	1	0.5	0.5
Integration Time	1.7	rectangular	•3	1	1	1.0	1.0
RF Ambient Condition	3.0	rectangular	•3	1	1	1.7	1.7
Probe Positioner Mech.	0.4	rectangular	•3	1	1	0.2	0.2
Restriction							
Probe Positioning with respect to Phantom Shell	2.9	rectangular	•3	1	1	1.7	1.7
Extrapolation and Integration	3.7	rectangular	•3	1	1	2.1	2.1
Test Sample Positioning	4.0	normal	1	1	1	4.0	4.0
Device Holder Uncertainty	2.0	normal	1	1	1	2.0	2.0
Drift of Output Power	8.5	rectangular	•3	1	1	4.9	4.9
Phantom and Setup							
Phantom Uncertainty(shape & thickness tolerance)	3.4	rectangular	•3	1	1	2.0	2.0
Liquid Conductivity(target)	5.0	rectangular	•3	0.7	0.5	2.0	1.4
Liquid Conductivity(meas.)	520.5	normal	1	0.7	0.5	364.3	260.2
Liquid Permittivity(target)	5.0	rectangular	•3	0.6	0.5	1.7	1.4
Liquid Permittivity(meas.)	16.7	normal	1	0.6	0.5	10.0	8.4
Combined Uncertainty		RSS				364.6	260.5
Combined Uncertainty (coverage factor=2)		Normal (k=2)				729.2	521.1

SAR Test Report

Operator : Jay
Validation Date : 15-Jun-2005
Measurement Date : 15-Jun-2005
Starting Time : 15-Jun-2005 11:17:02 AM
End Time : 15-Jun-2005 11:29:33 AM
Scanning Time : 751 secs

Product Data

Device Name : Motion Computing
Serial No. : Intel Module Aux Antenna
Type : Other
Model : TS01
Frequency : 5200.00 MHz
Max. Transmit Pwr : 0.05 W
Drift Time : 0 min(s)
Length : 200 mm
Width : 170 mm
Depth : 23 mm
Antenna Type : Internal
Power Drift-Start : 0.257 W/kg
Power Drift-Finish: 0.249 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. : 5200
Frequency : 5200 MHz
Last Calib. Date : 15-Jun-2005
Temperature : 21 °C
Ambient Temp. : 23 °C
Humidity : 62 RH%
Epsilon : 47.84 F/m
Sigma : 5.29 S/m
Density : 1000 kg/cu. m

Probe Data

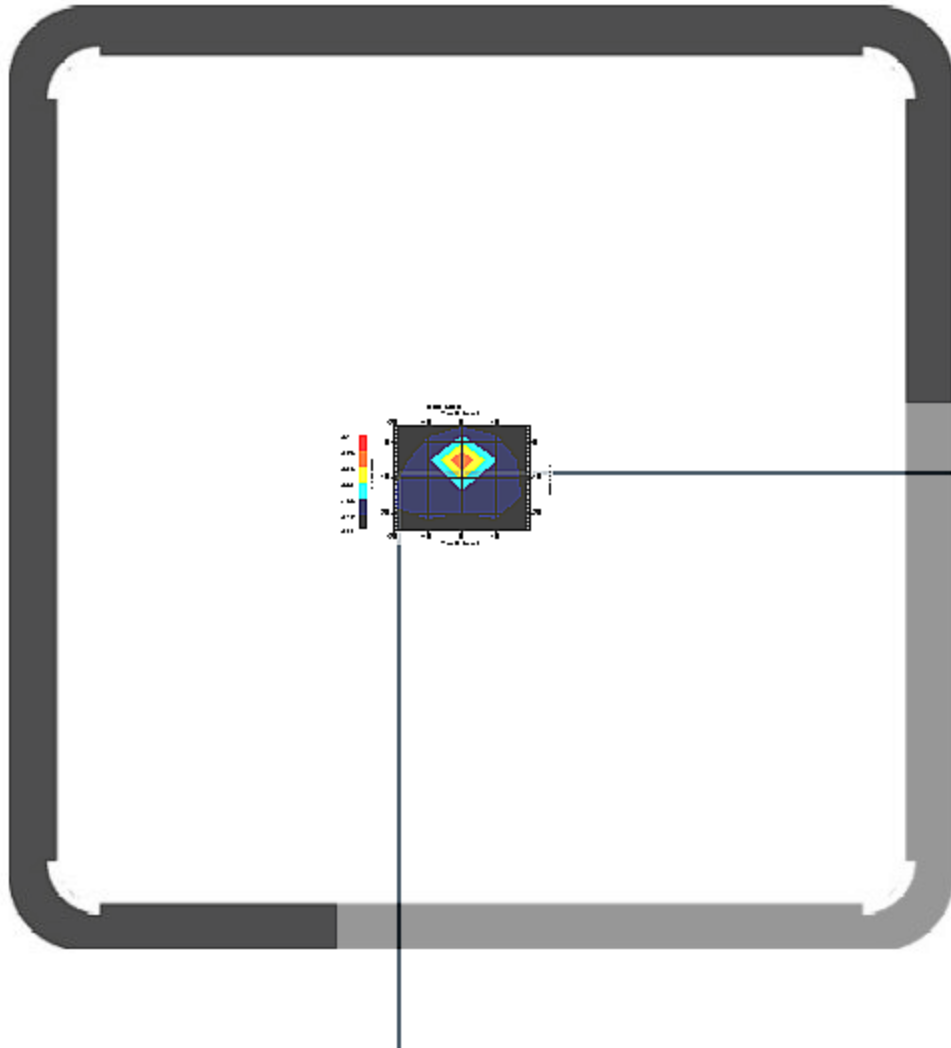
Name : Probe 215 - RFEL
Model : E020
Type : E-Field Triangle
Serial No. : 215
Last Calib. Date : 10-Jun-2005
Frequency : 5200 MHz
Duty Cycle Factor: 1
Conversion Factor: 2.8
Probe Sensitivity: 1.20 1.20 1.20 $\mu\text{V}/(\text{V}/\text{m})^2$
Compression Point: 95 mV
Offset : 1.56 mm

Measurement Data

Crest Factor : 1
Scan Type : Complete
Tissue Temp. : 21°C
Ambient Temp. : 23°C
Set-up Date : 15-Jun-2005
Set-up Time : 11:05:51 AM
Area Scan : 4x5x1 : Measurement x=10mm, y=10mm, z=4mm
Zoom Scan : 5x5x8 : Measurement x=8mm, y=8mm, z=4mm

Other Data

DUT Position : Touch
Separation : 0
Channel : High - 5320



1 gram SAR value : 0.867 W/kg
10 gram SAR value : 0.288 W/kg
Area Scan Peak SAR : 1.097 W/kg
Zoom Scan Peak SAR : 2.942 W/kg

Exposure Assessment Measurement Uncertainty

Source of Uncertainty	Tolerance Value	Probability Distribution	Divisor	c_i^{-1} (1-g)	c_i^{-1} (10-g)	Standard Uncertainty (1-g) %	Standard Uncertainty (10-g) %
Measurement System							
Probe Calibration	3.5	normal	1	1	1	3.5	3.5
Axial Isotropy	3.7	rectangular	•3	$(1-cp)^{1/2}$	$(1-cp)^{1/2}$	1.5	1.5
Hemispherical Isotropy	10.9	rectangular	•3	•cp	•cp	4.4	4.4
Boundary Effect	1.0	rectangular	•3	1	1	0.6	0.6
Linearity	4.7	rectangular	•3	1	1	2.7	2.7
Detection Limit	1.0	rectangular	•3	1	1	0.6	0.6
Readout Electronics	1.0	normal	1	1	1	1.0	1.0
Response Time	0.8	rectangular	•3	1	1	0.5	0.5
Integration Time	1.7	rectangular	•3	1	1	1.0	1.0
RF Ambient Condition	3.0	rectangular	•3	1	1	1.7	1.7
Probe Positioner Mech.	0.4	rectangular	•3	1	1	0.2	0.2
Restriction							
Probe Positioning with respect to Phantom Shell	2.9	rectangular	•3	1	1	1.7	1.7
Extrapolation and Integration	3.7	rectangular	•3	1	1	2.1	2.1
Test Sample Positioning	4.0	normal	1	1	1	4.0	4.0
Device Holder Uncertainty	2.0	normal	1	1	1	2.0	2.0
Drift of Output Power	3.1	rectangular	•3	1	1	1.8	1.8
Phantom and Setup							
Phantom Uncertainty(shape & thickness tolerance)	3.4	rectangular	•3	1	1	2.0	2.0
Liquid Conductivity(target)	5.0	rectangular	•3	0.7	0.5	2.0	1.4
Liquid Conductivity(meas.)	520.5	normal	1	0.7	0.5	364.3	260.2
Liquid Permittivity(target)	5.0	rectangular	•3	0.6	0.5	1.7	1.4
Liquid Permittivity(meas.)	16.7	normal	1	0.6	0.5	10.0	8.4
Combined Uncertainty		RSS				364.6	260.5
Combined Uncertainty (coverage factor=2)		Normal (k=2)				729.1	521.0

SAR Test Report

Operator : Jay
Validation Date : 15-Jun-2005
Measurement Date : 15-Jun-2005
Starting Time : 15-Jun-2005 01:27:31 AM
End Time : 15-Jun-2005 01:39:23 AM
Scanning Time : 772 secs

Product Data

Device Name : Motion Computing
Serial No. : Gemtech Module Aux Antenna
Type : Other
Model : TS01
Frequency : 5200.00 MHz
Max. Transmit Pwr : 0.05 W
Drift Time : 0 min(s)
Length : 200 mm
Width : 170 mm
Depth : 23 mm
Antenna Type : Internal
Power Drift-Start : 0.100 W/kg
Power Drift-Finish: 0.097 W/kg
Power Drift (%) : -3.000

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. : 5200
Frequency : 5200 MHz
Last Calib. Date : 15-Jun-2005
Temperature : 21 °C
Ambient Temp. : 23 °C
Humidity : 62 RH%
Epsilon : 48.42 F/m
Sigma : 5.23 S/m
Density : 1000 kg/cu. m

Probe Data

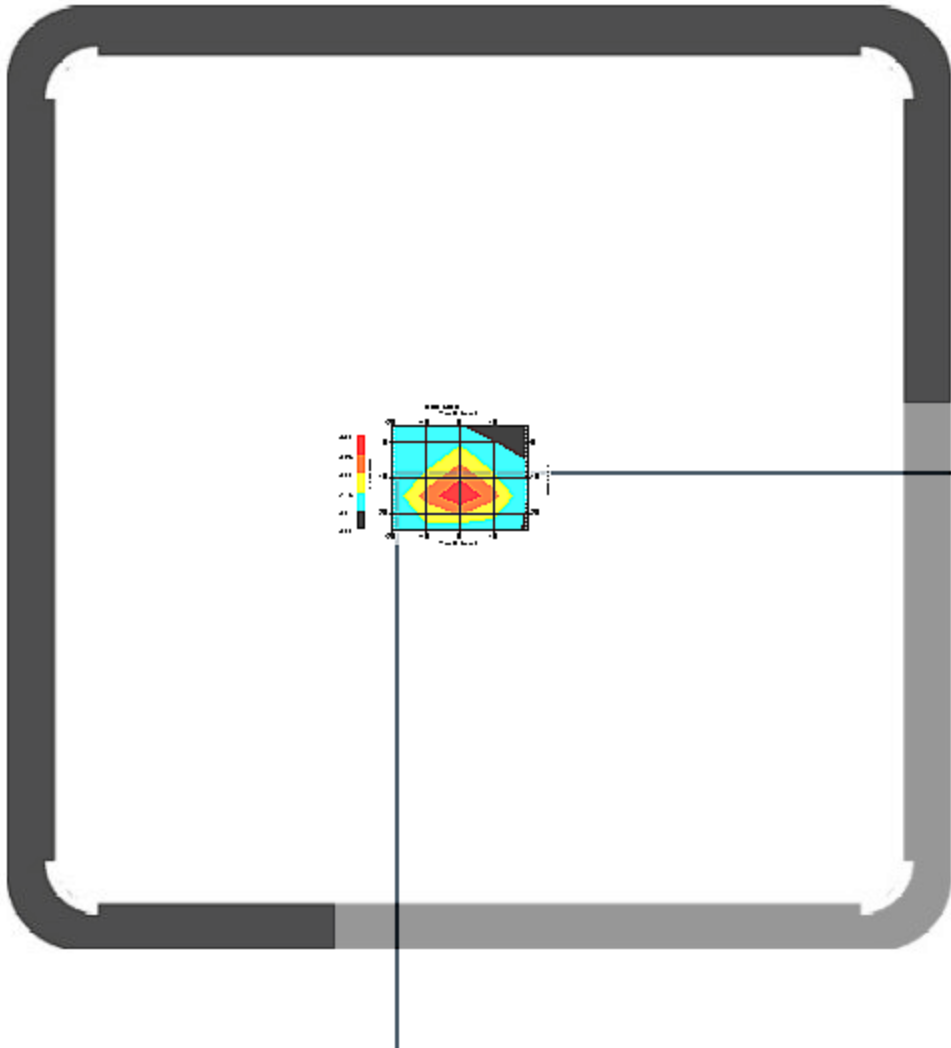
Name : Probe 215 - RFEL
Model : E020
Type : E-Field Triangle
Serial No. : 215
Last Calib. Date : 10-Jun-2005
Frequency : 5200 MHz
Duty Cycle Factor: 1
Conversion Factor: 2.8
Probe Sensitivity: 1.20 1.20 1.20 $\mu\text{V}/(\text{V}/\text{m})^2$
Compression Point: 95 mV
Offset : 1.56 mm

Measurement Data

Crest Factor : 1
Scan Type : Complete
Tissue Temp. : 21°C
Ambient Temp. : 23°C
Set-up Date : 15-Jun-2005
Set-up Time : 1:13:51 PM
Area Scan : 4x5x1 : Measurement x=10mm, y=10mm, z=4mm
Zoom Scan : 5x5x8 : Measurement x=8mm, y=8mm, z=4mm

Other Data

DUT Position : Touch
Separation : 0
Channel : Mid - 5240



1 gram SAR value : 0.304 W/kg
10 gram SAR value : 0.133 W/kg
Area Scan Peak SAR : 0.368 W/kg
Zoom Scan Peak SAR : 0.840 W/kg

Exposure Assessment Measurement Uncertainty

Source of Uncertainty	Tolerance Value	Probability Distribution	Divisor	c_i^{-1} (1-g)	c_i^{-1} (10-g)	Standard Uncertainty (1-g) %	Standard Uncertainty (10-g) %
Measurement System							
Probe Calibration	3.5	normal	1	1	1	3.5	3.5
Axial Isotropy	3.7	rectangular	•3	$(1-cp)^{1/2}$	$(1-cp)^{1/2}$	1.5	1.5
Hemispherical Isotropy	10.9	rectangular	•3	•cp	•cp	4.4	4.4
Boundary Effect	1.0	rectangular	•3	1	1	0.6	0.6
Linearity	4.7	rectangular	•3	1	1	2.7	2.7
Detection Limit	1.0	rectangular	•3	1	1	0.6	0.6
Readout Electronics	1.0	normal	1	1	1	1.0	1.0
Response Time	0.8	rectangular	•3	1	1	0.5	0.5
Integration Time	1.7	rectangular	•3	1	1	1.0	1.0
RF Ambient Condition	3.0	rectangular	•3	1	1	1.7	1.7
Probe Positioner Mech.	0.4	rectangular	•3	1	1	0.2	0.2
Restriction							
Probe Positioning with respect to Phantom Shell	2.9	rectangular	•3	1	1	1.7	1.7
Extrapolation and Integration	3.7	rectangular	•3	1	1	2.1	2.1
Test Sample Positioning	4.0	normal	1	1	1	4.0	4.0
Device Holder Uncertainty	2.0	normal	1	1	1	2.0	2.0
Drift of Output Power	33.3	rectangular	•3	1	1	19.2	19.2
Phantom and Setup							
Phantom Uncertainty(shape & thickness tolerance)	3.4	rectangular	•3	1	1	2.0	2.0
Liquid Conductivity(target)	5.0	rectangular	•3	0.7	0.5	2.0	1.4
Liquid Conductivity(meas.)	520.5	normal	1	0.7	0.5	364.3	260.2
Liquid Permittivity(target)	5.0	rectangular	•3	0.6	0.5	1.7	1.4
Liquid Permittivity(meas.)	16.7	normal	1	0.6	0.5	10.0	8.4
Combined Uncertainty		RSS				365.1	261.2
Combined Uncertainty (coverage factor=2)		Normal (k=2)				730.1	522.4

SAR Test Report

Operator : Jay
Validation Date : 15-Jun-2005
Measurement Date : 15-Jun-2005
Starting Time : 15-Jun-2005 02:15:15 PM
End Time : 15-Jun-2005 02:27:54 PM
Scanning Time : 759 secs

Product Data

Device Name : Motion Computing
Serial No. : Intel Module Aux Antenna w/BT
Type : Other
Model : TS01
Frequency : 5200.00 MHz
Max. Transmit Pwr : 0.05 W
Drift Time : 0 min(s)
Length : 200 mm
Width : 170 mm
Depth : 23 mm
Antenna Type : Internal
Power Drift-Start : 0.277 W/kg
Power Drift-Finish: 0.265 W/kg
Power Drift (%) : -4.332

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. : 5200
Frequency : 5200 MHz
Last Calib. Date : 15-Jun-2005
Temperature : 21 °C
Ambient Temp. : 23 °C
Humidity : 62 RH%
Epsilon : 48.29 F/m
Sigma : 5.15 S/m
Density : 1000 kg/cu. m

Probe Data

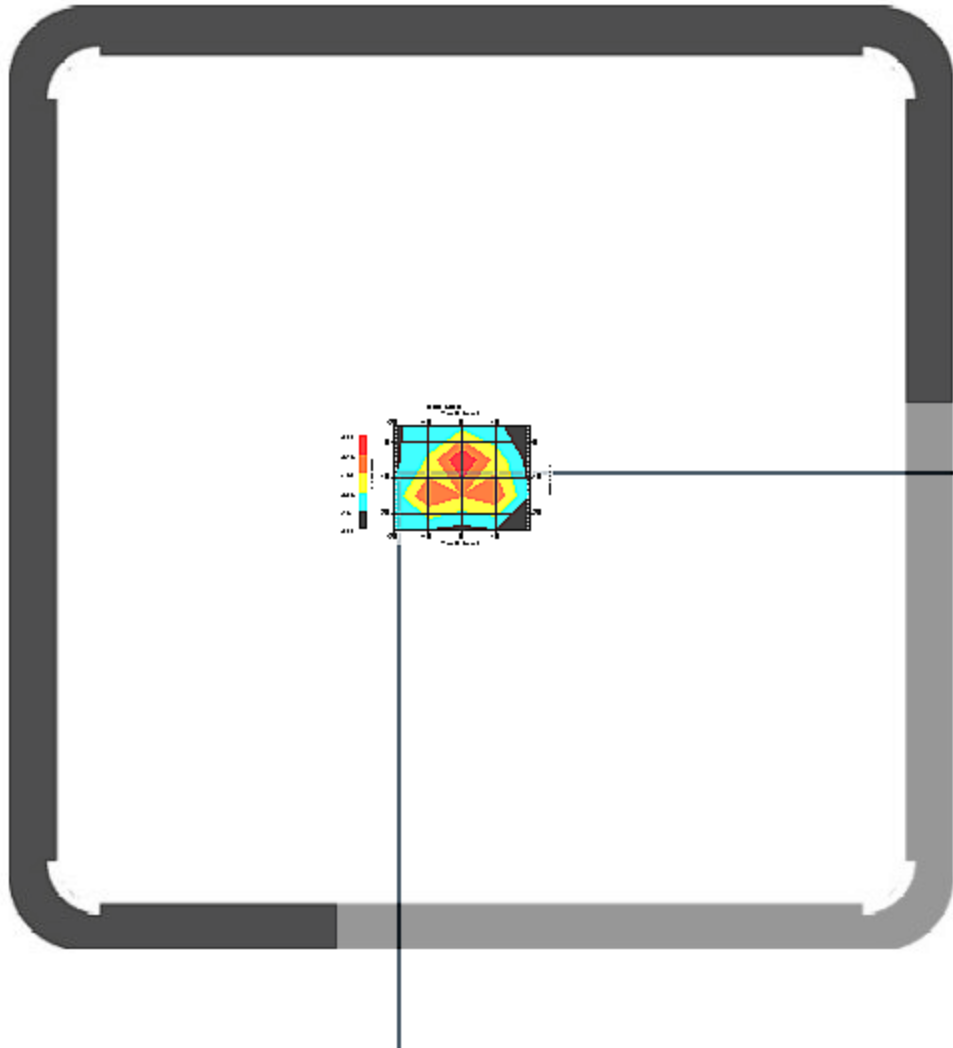
Name : Probe 215 - RFEL
Model : E020
Type : E-Field Triangle
Serial No. : 215
Last Calib. Date : 10-Jun-2005
Frequency : 5200 MHz
Duty Cycle Factor: 1
Conversion Factor: 2.8
Probe Sensitivity: 1.20 1.20 1.20 $\mu\text{V}/(\text{V}/\text{m})^2$
Compression Point: 95 mV
Offset : 1.56 mm

Measurement Data

Crest Factor : 1
Scan Type : Complete
Tissue Temp. : 21°C
Ambient Temp. : 23°C
Set-up Date : 15-Jun-2005
Set-up Time : 1:25:51 PM
Area Scan : 4x5x1 : Measurement x=10mm, y=10mm, z=4mm
Zoom Scan : 5x5x8 : Measurement x=8mm, y=8mm, z=4mm

Other Data

DUT Position : Touch
Separation : 0
Channel : Low - 5180



1 gram SAR value : 0.916 W/kg
10 gram SAR value : 0.315 W/kg
Area Scan Peak SAR : 0.768 W/kg
Zoom Scan Peak SAR : 2.832 W/kg

Exposure Assessment Measurement Uncertainty

Source of Uncertainty	Tolerance Value	Probability Distribution	Divisor	c_i^{-1} (1-g)	c_i^{-1} (10-g)	Standard Uncertainty (1-g) %	Standard Uncertainty (10-g) %
Measurement System							
Probe Calibration	3.5	normal	1	1	1	3.5	3.5
Axial Isotropy	3.7	rectangular	•3	$(1-cp)^{1/2}$	$(1-cp)^{1/2}$	1.5	1.5
Hemispherical Isotropy	10.9	rectangular	•3	•cp	•cp	4.4	4.4
Boundary Effect	1.0	rectangular	•3	1	1	0.6	0.6
Linearity	4.7	rectangular	•3	1	1	2.7	2.7
Detection Limit	1.0	rectangular	•3	1	1	0.6	0.6
Readout Electronics	1.0	normal	1	1	1	1.0	1.0
Response Time	0.8	rectangular	•3	1	1	0.5	0.5
Integration Time	1.7	rectangular	•3	1	1	1.0	1.0
RF Ambient Condition	3.0	rectangular	•3	1	1	1.7	1.7
Probe Positioner Mech.	0.4	rectangular	•3	1	1	0.2	0.2
Restriction							
Probe Positioning with respect to Phantom Shell	2.9	rectangular	•3	1	1	1.7	1.7
Extrapolation and Integration	3.7	rectangular	•3	1	1	2.1	2.1
Test Sample Positioning	4.0	normal	1	1	1	4.0	4.0
Device Holder Uncertainty	2.0	normal	1	1	1	2.0	2.0
Drift of Output Power	7.9	rectangular	•3	1	1	4.6	4.6
Phantom and Setup							
Phantom Uncertainty(shape & thickness tolerance)	3.4	rectangular	•3	1	1	2.0	2.0
Liquid Conductivity(target)	5.0	rectangular	•3	0.7	0.5	2.0	1.4
Liquid Conductivity(meas.)	520.5	normal	1	0.7	0.5	364.3	260.2
Liquid Permittivity(target)	5.0	rectangular	•3	0.6	0.5	1.7	1.4
Liquid Permittivity(meas.)	16.7	normal	1	0.6	0.5	10.0	8.4
Combined Uncertainty		RSS				364.6	260.5
Combined Uncertainty (coverage factor=2)		Normal (k=2)				729.2	521.1

SAR Test Report

Operator : Jay
Validation Date : 17-Jun-2005
Measurement Date : 17-Jun-2005
Starting Time : 17-Jun-2005 09:10:01 AM
End Time : 17-Jun-2005 09:22:46 AM
Scanning Time : 765 secs

Product Data

Device Name : Motion Computing
Serial No. : Intel Module Main Antenna
Type : Other
Model : TS01
Frequency : 5600.00 MHz
Max. Transmit Pwr : 0.05 W
Drift Time : 0 min(s)
Length : 200 mm
Width : 170 mm
Depth : 23 mm
Antenna Type : Internal
Power Drift-Start : 0.308 W/kg
Power Drift-Finish: 0.299 W/kg
Power Drift (%) : -2.922

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. : 5600
Frequency : 5600 MHz
Last Calib. Date : 17-Jun-2005
Temperature : 21 °C
Ambient Temp. : 24 °C
Humidity : 52 RH%
Epsilon : 48.59 F/m
Sigma : 5.73 S/m
Density : 1000 kg/cu. m

Probe Data

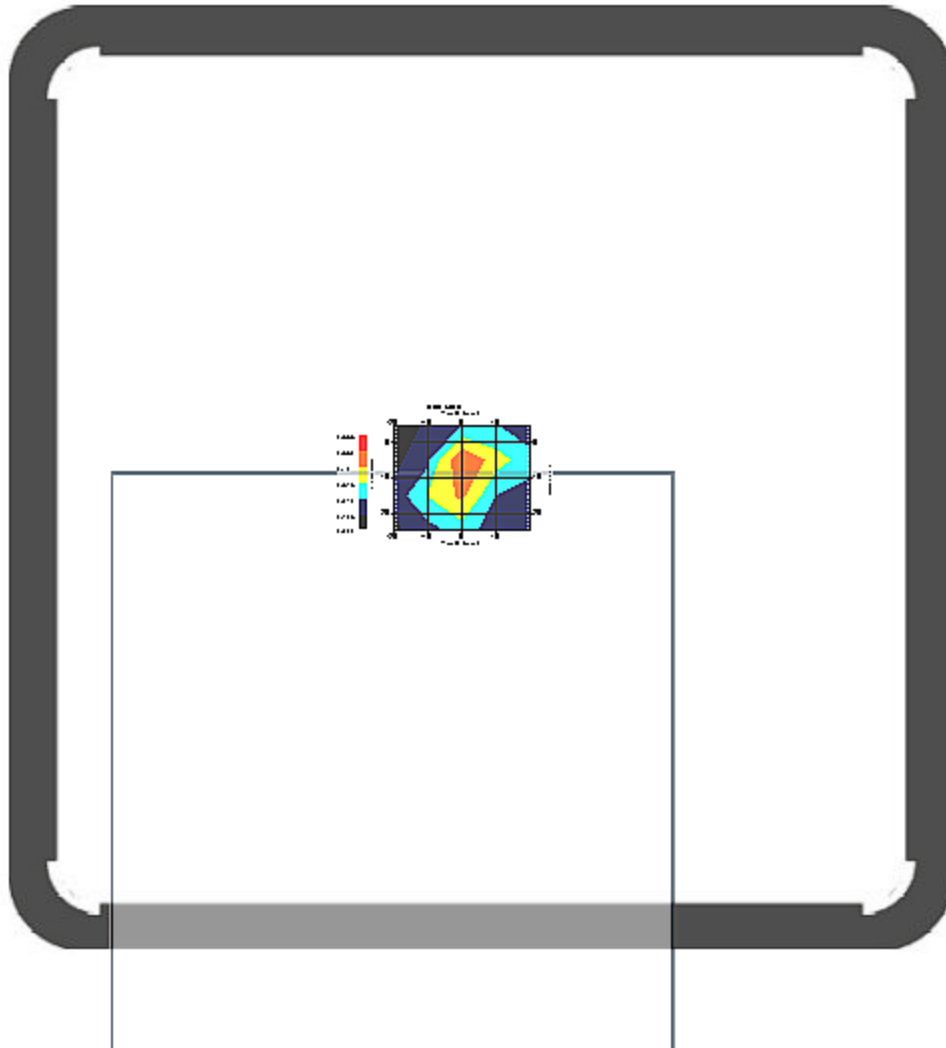
Name : Probe 215 - RFEL
Model : E020
Type : E-Field Triangle
Serial No. : 215
Last Calib. Date : 10-Jun-2005
Frequency : 5600 MHz
Duty Cycle Factor: 1
Conversion Factor: 2.31
Probe Sensitivity: 1.20 1.20 1.20 $\mu\text{V}/(\text{V}/\text{m})^2$
Compression Point: 95 mV
Offset : 1.56 mm

Measurement Data

Crest Factor : 1
Scan Type : Complete
Tissue Temp. : 21°C
Ambient Temp. : 23°C
Set-up Date : 17-Jun-2005
Set-up Time : 9:09:08 AM
Area Scan : 4x5x1 : Measurement x=10mm, y=10mm, z=4mm
Zoom Scan : 5x5x8 : Measurement x=8mm, y=8mm, z=4mm

Other Data

DUT Position : Touch
Separation : 0
Channel : Mid - 5600



1 gram SAR value : 0.450 W/kg
10 gram SAR value : 0.195 W/kg
Area Scan Peak SAR : 0.531 W/kg
Zoom Scan Peak SAR : 1.381 W/kg

Exposure Assessment Measurement Uncertainty

Source of Uncertainty	Tolerance Value	Probability Distribution	Divisor	c_i^{-1} (1-g)	c_i^{-1} (10-g)	Standard Uncertainty (1-g) %	Standard Uncertainty (10-g) %
Measurement System							
Probe Calibration	3.5	normal	1	1	1	3.5	3.5
Axial Isotropy	3.7	rectangular	•3	$(1-cp)^{1/2}$	$(1-cp)^{1/2}$	1.5	1.5
Hemispherical Isotropy	10.9	rectangular	•3	•cp	•cp	4.4	4.4
Boundary Effect	1.0	rectangular	•3	1	1	0.6	0.6
Linearity	4.7	rectangular	•3	1	1	2.7	2.7
Detection Limit	1.0	rectangular	•3	1	1	0.6	0.6
Readout Electronics	1.0	normal	1	1	1	1.0	1.0
Response Time	0.8	rectangular	•3	1	1	0.5	0.5
Integration Time	1.7	rectangular	•3	1	1	1.0	1.0
RF Ambient Condition	3.0	rectangular	•3	1	1	1.7	1.7
Probe Positioner Mech.	0.4	rectangular	•3	1	1	0.2	0.2
Restriction							
Probe Positioning with respect to Phantom Shell	2.9	rectangular	•3	1	1	1.7	1.7
Extrapolation and Integration	3.7	rectangular	•3	1	1	2.1	2.1
Test Sample Positioning	4.0	normal	1	1	1	4.0	4.0
Device Holder Uncertainty	2.0	normal	1	1	1	2.0	2.0
Drift of Output Power	19.0	rectangular	•3	1	1	11.0	11.0
Phantom and Setup							
Phantom Uncertainty(shape & thickness tolerance)	3.4	rectangular	•3	1	1	2.0	2.0
Liquid Conductivity(target)	5.0	rectangular	•3	0.7	0.5	2.0	1.4
Liquid Conductivity(meas.)	590.4	normal	1	0.7	0.5	413.3	295.2
Liquid Permittivity(target)	5.0	rectangular	•3	0.6	0.5	1.7	1.4
Liquid Permittivity(meas.)	16.2	normal	1	0.6	0.5	9.7	8.1
Combined Uncertainty		RSS				413.7	295.7
Combined Uncertainty (coverage factor=2)		Normal (k=2)				827.3	591.3

SAR Test Report

Operator : Jay
Validation Date : 17-Jun-2005
Measurement Date : 17-Jun-2005
Starting Time : 17-Jun-2005 10:18:13 AM
End Time : 17-Jun-2005 10:30:45 AM
Scanning Time : 752 secs

Product Data

Device Name : Motion Computing
Serial No. : Gemtech Module Main Antenna
Type : Other
Model : TS01
Frequency : 5600.00 MHz
Max. Transmit Pwr : 0.05 W
Drift Time : 0 min(s)
Length : 200 mm
Width : 170 mm
Depth : 23 mm
Antenna Type : Internal
Power Drift-Start : 0.151 W/kg
Power Drift-Finish: 0.144 W/kg
Power Drift (%) : -4.635

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. : 5600
Frequency : 5600 MHz
Last Calib. Date : 17-Jun-2005
Temperature : 21 °C
Ambient Temp. : 24 °C
Humidity : 52 RH%
Epsilon : 48.59 F/m
Sigma : 5.73 S/m
Density : 1000 kg/cu. m

Probe Data

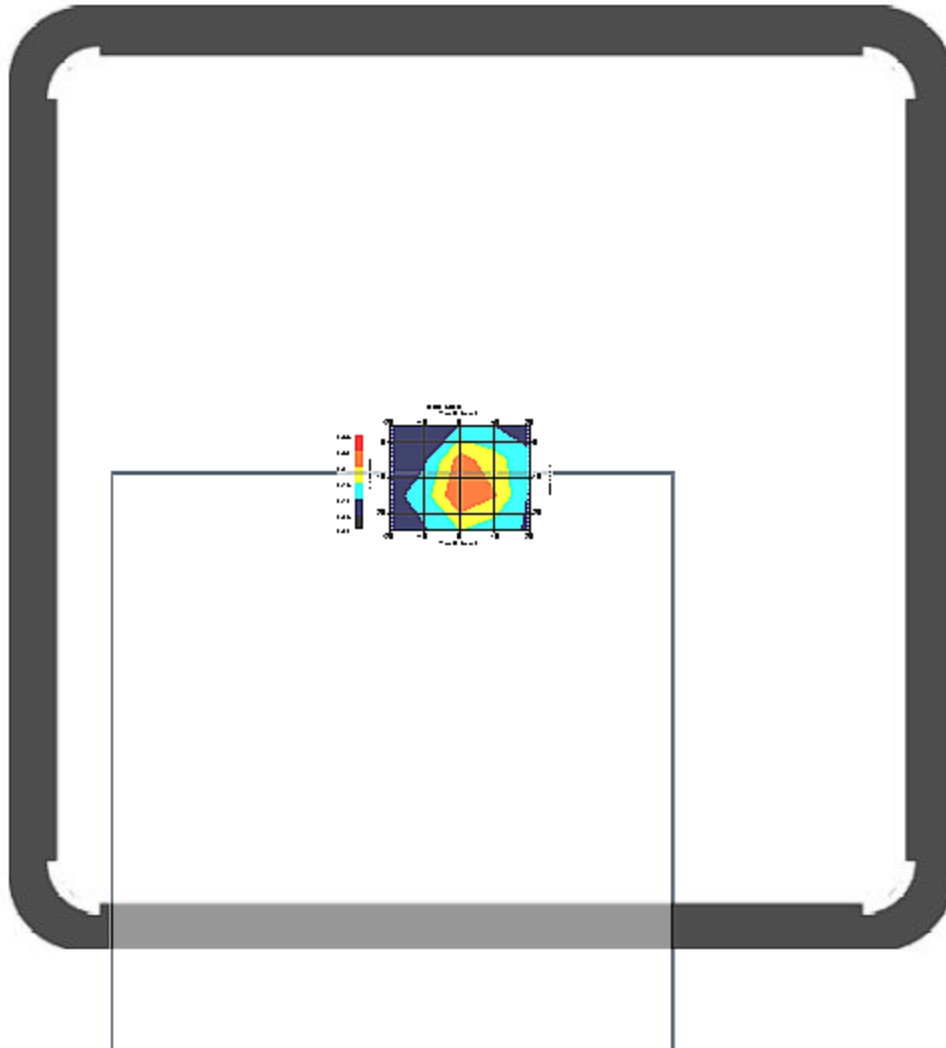
Name : Probe 215 - RFEL
Model : E020
Type : E-Field Triangle
Serial No. : 215
Last Calib. Date : 10-Jun-2005
Frequency : 5600 MHz
Duty Cycle Factor: 1
Conversion Factor: 2.31
Probe Sensitivity: 1.20 1.20 1.20 $\mu\text{V}/(\text{V}/\text{m})^2$
Compression Point: 95 mV
Offset : 1.56 mm

Measurement Data

Crest Factor : 1
Scan Type : Complete
Tissue Temp. : 21°C
Ambient Temp. : 23°C
Set-up Date : 17-Jun-2005
Set-up Time : 10:17:33 AM
Area Scan : 4x5x1 : Measurement x=10mm, y=10mm, z=4mm
Zoom Scan : 5x5x8 : Measurement x=8mm, y=8mm, z=4mm

Other Data

DUT Position : Touch
Separation : 0
Channel : Mid - 5600



1 gram SAR value : 0.230 W/kg
10 gram SAR value : 0.122 W/kg
Area Scan Peak SAR : 0.300 W/kg
Zoom Scan Peak SAR : 0.210 W/kg

Exposure Assessment Measurement Uncertainty

Source of Uncertainty	Tolerance Value	Probability Distribution	Divisor	c_i^{-1} (1-g)	c_i^{-1} (10-g)	Standard Uncertainty (1-g) %	Standard Uncertainty (10-g) %
Measurement System							
Probe Calibration	3.5	normal	1	1	1	3.5	3.5
Axial Isotropy	3.7	rectangular	•3	$(1-cp)^{1/2}$	$(1-cp)^{1/2}$	1.5	1.5
Hemispherical Isotropy	10.9	rectangular	•3	•cp	•cp	4.4	4.4
Boundary Effect	1.0	rectangular	•3	1	1	0.6	0.6
Linearity	4.7	rectangular	•3	1	1	2.7	2.7
Detection Limit	1.0	rectangular	•3	1	1	0.6	0.6
Readout Electronics	1.0	normal	1	1	1	1.0	1.0
Response Time	0.8	rectangular	•3	1	1	0.5	0.5
Integration Time	1.7	rectangular	•3	1	1	1.0	1.0
RF Ambient Condition	3.0	rectangular	•3	1	1	1.7	1.7
Probe Positioner Mech.	0.4	rectangular	•3	1	1	0.2	0.2
Restriction							
Probe Positioning with respect to Phantom Shell	2.9	rectangular	•3	1	1	1.7	1.7
Extrapolation and Integration	3.7	rectangular	•3	1	1	2.1	2.1
Test Sample Positioning	4.0	normal	1	1	1	4.0	4.0
Device Holder Uncertainty	2.0	normal	1	1	1	2.0	2.0
Drift of Output Power	38.1	rectangular	•3	1	1	22.0	22.0
Phantom and Setup							
Phantom Uncertainty(shape & thickness tolerance)	3.4	rectangular	•3	1	1	2.0	2.0
Liquid Conductivity(target)	5.0	rectangular	•3	0.7	0.5	2.0	1.4
Liquid Conductivity(meas.)	590.4	normal	1	0.7	0.5	413.3	295.2
Liquid Permittivity(target)	5.0	rectangular	•3	0.6	0.5	1.7	1.4
Liquid Permittivity(meas.)	16.2	normal	1	0.6	0.5	9.7	8.1
Combined Uncertainty		RSS				414.1	296.3
Combined Uncertainty (coverage factor=2)		Normal (k=2)				828.2	592.5

SAR Test Report

Operator : Jay
Validation Date : 17-Jun-2005
Measurement Date : 17-Jun-2005
Starting Time : 17-Jun-2005 08:53:25 AM
End Time : 17-Jun-2005 09:05:40 AM
Scanning Time : 735 secs

Product Data

Device Name : Motion Computing
Serial No. : Intel Module Aux Antenna
Type : Other
Model : TS01
Frequency : 5600.00 MHz
Max. Transmit Pwr : 0.05 W
Drift Time : 0 min(s)
Length : 200 mm
Width : 170 mm
Depth : 23 mm
Antenna Type : Internal
Power Drift-Start : 0.100 W/kg
Power Drift-Finish: 0.101 W/kg
Power Drift (%) : 1.105

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. : 5600
Frequency : 5600 MHz
Last Calib. Date : 17-Jun-2005
Temperature : 21 °C
Ambient Temp. : 24 °C
Humidity : 52 RH%
Epsilon : 48.59 F/m
Sigma : 5.73 S/m
Density : 1000 kg/cu. m

Probe Data

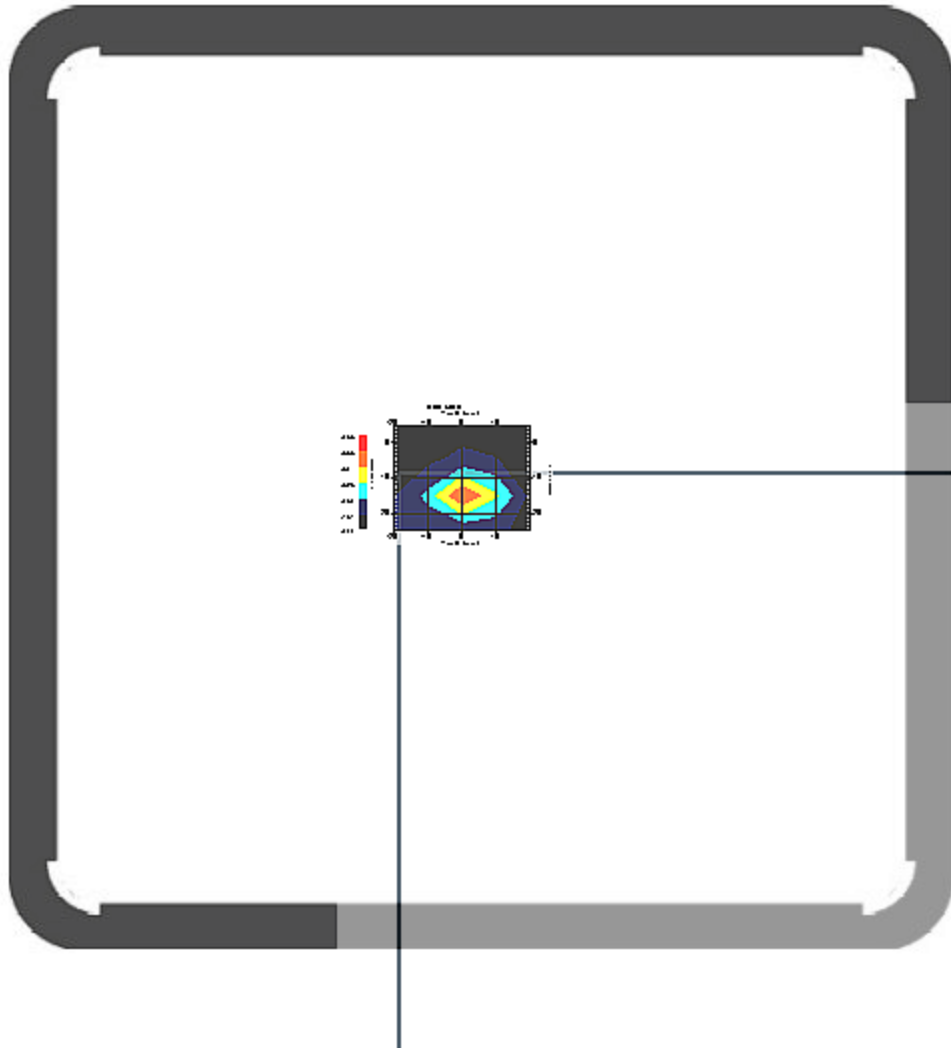
Name : Probe 215 - RFEL
Model : E020
Type : E-Field Triangle
Serial No. : 215
Last Calib. Date : 10-Jun-2005
Frequency : 5600 MHz
Duty Cycle Factor: 1
Conversion Factor: 2.31
Probe Sensitivity: 1.20 1.20 1.20 $\mu\text{V}/(\text{V}/\text{m})^2$
Compression Point: 95 mV
Offset : 1.56 mm

Measurement Data

Crest Factor : 1
Scan Type : Complete
Tissue Temp. : 21°C
Ambient Temp. : 23°C
Set-up Date : 17-Jun-2005
Set-up Time : 8:46:20 AM
Area Scan : 4x5x1 : Measurement x=10mm, y=10mm, z=4mm
Zoom Scan : 5x5x8 : Measurement x=8mm, y=8mm, z=4mm

Other Data

DUT Position : Touch
Separation : 0
Channel : Mid - 5600



1 gram SAR value : 0.528 W/kg
10 gram SAR value : 0.201 W/kg
Area Scan Peak SAR : 0.656 W/kg
Zoom Scan Peak SAR : 1.811 W/kg

Exposure Assessment Measurement Uncertainty

Source of Uncertainty	Tolerance Value	Probability Distribution	Divisor	c_i^{-1} (1-g)	c_i^{-1} (10-g)	Standard Uncertainty (1-g) %	Standard Uncertainty (10-g) %
Measurement System							
Probe Calibration	3.5	normal	1	1	1	3.5	3.5
Axial Isotropy	3.7	rectangular	•3	$(1-cp)^{1/2}$	$(1-cp)^{1/2}$	1.5	1.5
Hemispherical Isotropy	10.9	rectangular	•3	•cp	•cp	4.4	4.4
Boundary Effect	1.0	rectangular	•3	1	1	0.6	0.6
Linearity	4.7	rectangular	•3	1	1	2.7	2.7
Detection Limit	1.0	rectangular	•3	1	1	0.6	0.6
Readout Electronics	1.0	normal	1	1	1	1.0	1.0
Response Time	0.8	rectangular	•3	1	1	0.5	0.5
Integration Time	1.7	rectangular	•3	1	1	1.0	1.0
RF Ambient Condition	3.0	rectangular	•3	1	1	1.7	1.7
Probe Positioner Mech.	0.4	rectangular	•3	1	1	0.2	0.2
Restriction							
Probe Positioning with respect to Phantom Shell	2.9	rectangular	•3	1	1	1.7	1.7
Extrapolation and Integration	3.7	rectangular	•3	1	1	2.1	2.1
Test Sample Positioning	4.0	normal	1	1	1	4.0	4.0
Device Holder Uncertainty	2.0	normal	1	1	1	2.0	2.0
Drift of Output Power	6.1	rectangular	•3	1	1	3.5	3.5
Phantom and Setup							
Phantom Uncertainty(shape & thickness tolerance)	3.4	rectangular	•3	1	1	2.0	2.0
Liquid Conductivity(target)	5.0	rectangular	•3	0.7	0.5	2.0	1.4
Liquid Conductivity(meas.)	590.4	normal	1	0.7	0.5	413.3	295.2
Liquid Permittivity(target)	5.0	rectangular	•3	0.6	0.5	1.7	1.4
Liquid Permittivity(meas.)	16.2	normal	1	0.6	0.5	9.7	8.1
Combined Uncertainty		RSS				413.5	295.5
Combined Uncertainty (coverage factor=2)		Normal (k=2)				827.1	590.9

SAR Test Report

Operator : Jay
Validation Date : 17-Jun-2005
Measurement Date : 17-Jun-2005
Starting Time : 17-Jun-2005 09:59:09 AM
End Time : 17-Jun-2005 10:11:35 AM
Scanning Time : 746 secs

Product Data

Device Name : Motion Computing
Serial No. : Gemtech Module Aux Antenna
Type : Other
Model : TS01
Frequency : 5600.00 MHz
Max. Transmit Pwr : 0.05 W
Drift Time : 0 min(s)
Length : 200 mm
Width : 170 mm
Depth : 23 mm
Antenna Type : Internal
Power Drift-Start : 0.100 W/kg
Power Drift-Finish: 0.100 W/kg
Power Drift (%) : 0.000

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. : 5600
Frequency : 5600 MHz
Last Calib. Date : 17-Jun-2005
Temperature : 21 °C
Ambient Temp. : 24 °C
Humidity : 52 RH%
Epsilon : 48.59 F/m
Sigma : 5.73 S/m
Density : 1000 kg/cu. m

Probe Data

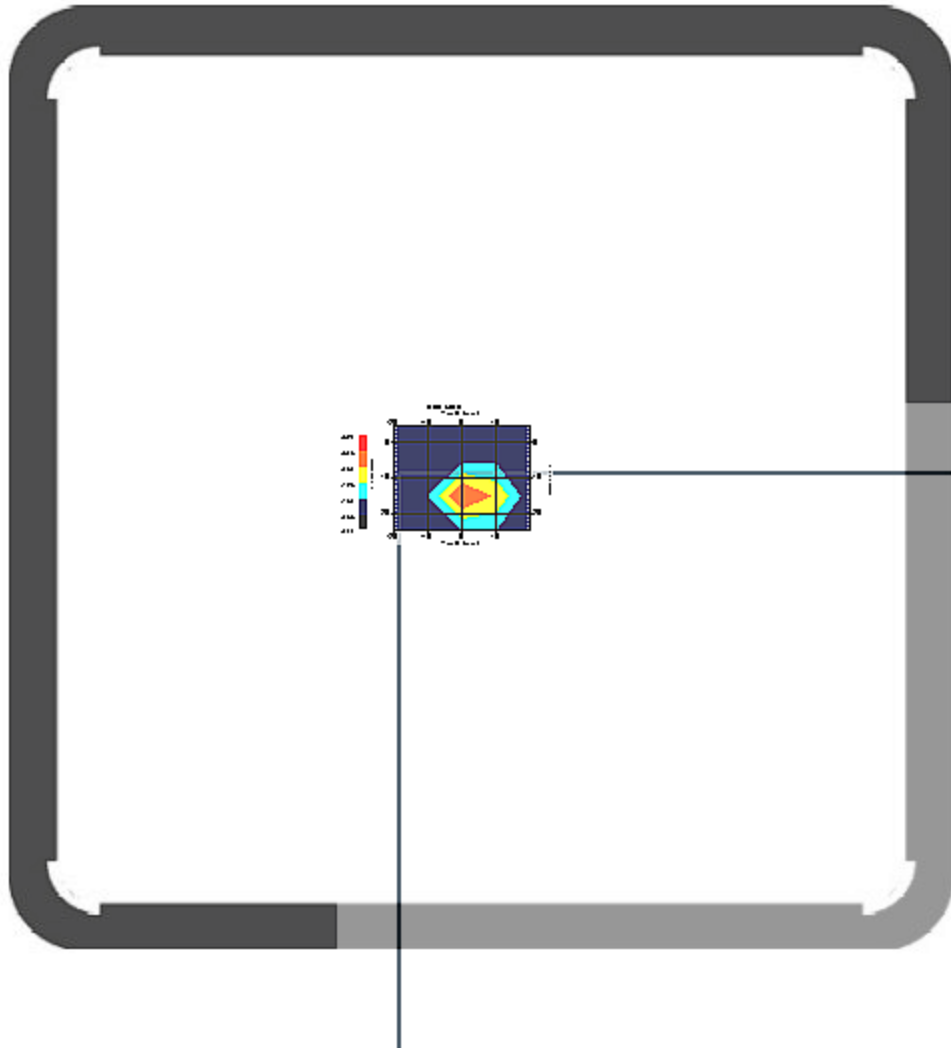
Name : Probe 215 - RFEL
Model : E020
Type : E-Field Triangle
Serial No. : 215
Last Calib. Date : 10-Jun-2005
Frequency : 5600 MHz
Duty Cycle Factor: 1
Conversion Factor: 2.31
Probe Sensitivity: 1.20 1.20 1.20 $\mu\text{V}/(\text{V}/\text{m})^2$
Compression Point: 95 mV
Offset : 1.56 mm

Measurement Data

Crest Factor : 1
Scan Type : Complete
Tissue Temp. : 21°C
Ambient Temp. : 23°C
Set-up Date : 17-Jun-2005
Set-up Time : 9:58:17 AM
Area Scan : 4x5x1 : Measurement x=10mm, y=10mm, z=4mm
Zoom Scan : 5x5x8 : Measurement x=8mm, y=8mm, z=4mm

Other Data

DUT Position : Touch
Separation : 0
Channel : Mid - 5600



1 gram SAR value : 0.197 W/kg
10 gram SAR value : 0.110 W/kg
Area Scan Peak SAR : 0.327 W/kg
Zoom Scan Peak SAR : 0.350 W/kg

Exposure Assessment Measurement Uncertainty

Source of Uncertainty	Tolerance Value	Probability Distribution	Divisor	c_i^{-1} (1-g)	c_i^{-1} (10-g)	Standard Uncertainty (1-g) %	Standard Uncertainty (10-g) %
Measurement System							
Probe Calibration	3.5	normal	1	1	1	3.5	3.5
Axial Isotropy	3.7	rectangular	•3	$(1-cp)^{1/2}$	$(1-cp)^{1/2}$	1.5	1.5
Hemispherical Isotropy	10.9	rectangular	•3	•cp	•cp	4.4	4.4
Boundary Effect	1.0	rectangular	•3	1	1	0.6	0.6
Linearity	4.7	rectangular	•3	1	1	2.7	2.7
Detection Limit	1.0	rectangular	•3	1	1	0.6	0.6
Readout Electronics	1.0	normal	1	1	1	1.0	1.0
Response Time	0.8	rectangular	•3	1	1	0.5	0.5
Integration Time	1.7	rectangular	•3	1	1	1.0	1.0
RF Ambient Condition	3.0	rectangular	•3	1	1	1.7	1.7
Probe Positioner Mech.	0.4	rectangular	•3	1	1	0.2	0.2
Restriction							
Probe Positioning with respect to Phantom Shell	2.9	rectangular	•3	1	1	1.7	1.7
Extrapolation and Integration	3.7	rectangular	•3	1	1	2.1	2.1
Test Sample Positioning	4.0	normal	1	1	1	4.0	4.0
Device Holder Uncertainty	2.0	normal	1	1	1	2.0	2.0
Drift of Output Power	25.9	rectangular	•3	1	1	14.9	14.9
Phantom and Setup							
Phantom Uncertainty(shape & thickness tolerance)	3.4	rectangular	•3	1	1	2.0	2.0
Liquid Conductivity(target)	5.0	rectangular	•3	0.7	0.5	2.0	1.4
Liquid Conductivity(meas.)	590.4	normal	1	0.7	0.5	413.3	295.2
Liquid Permittivity(target)	5.0	rectangular	•3	0.6	0.5	1.7	1.4
Liquid Permittivity(meas.)	16.2	normal	1	0.6	0.5	9.7	8.1
Combined Uncertainty		RSS				413.8	295.8
Combined Uncertainty (coverage factor=2)		Normal (k=2)				827.6	591.7

SAR Test Report

Operator : Jay
Validation Date : 17-Jun-2005
Measurement Date : 17-Jun-2005
Starting Time : 17-Jun-2005 09:27:00 AM
End Time : 17-Jun-2005 09:39:22 AM
Scanning Time : 742 secs

Product Data

Device Name : Motion Computing
Serial No. : Intel Module Aux Antenna w/BT
Type : Other
Model : TS01
Frequency : 5600.00 MHz
Max. Transmit Pwr : 0.05 W
Drift Time : 0 min(s)
Length : 200 mm
Width : 170 mm
Depth : 23 mm
Antenna Type : Internal
Power Drift-Start : 0.106 W/kg
Power Drift-Finish: 0.101 W/kg
Power Drift (%) : -4.717

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. : 5600
Frequency : 5600 MHz
Last Calib. Date : 17-Jun-2005
Temperature : 21 °C
Ambient Temp. : 24 °C
Humidity : 52 RH%
Epsilon : 48.59 F/m
Sigma : 5.73 S/m
Density : 1000 kg/cu. m

Probe Data

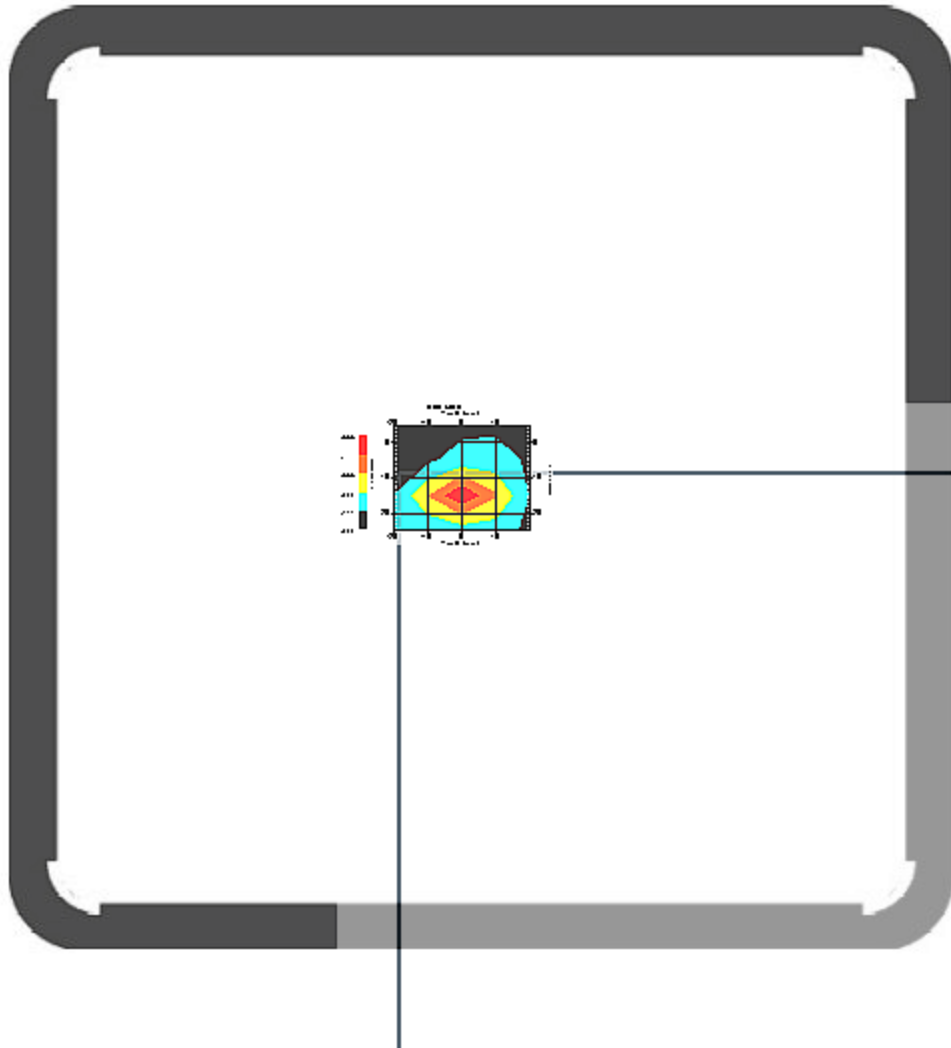
Name : Probe 215 - RFEL
Model : E020
Type : E-Field Triangle
Serial No. : 215
Last Calib. Date : 10-Jun-2005
Frequency : 5600 MHz
Duty Cycle Factor: 1
Conversion Factor: 2.31
Probe Sensitivity: 1.20 1.20 1.20 $\mu\text{V}/(\text{V}/\text{m})^2$
Compression Point: 95 mV
Offset : 1.56 mm

Measurement Data

Crest Factor : 1
Scan Type : Complete
Tissue Temp. : 21°C
Ambient Temp. : 23°C
Set-up Date : 17-Jun-2005
Set-up Time : 8:46:20 AM
Area Scan : 4x5x1 : Measurement x=10mm, y=10mm, z=4mm
Zoom Scan : 5x5x8 : Measurement x=8mm, y=8mm, z=4mm

Other Data

DUT Position : Touch
Separation : 0
Channel : Mid - 5600

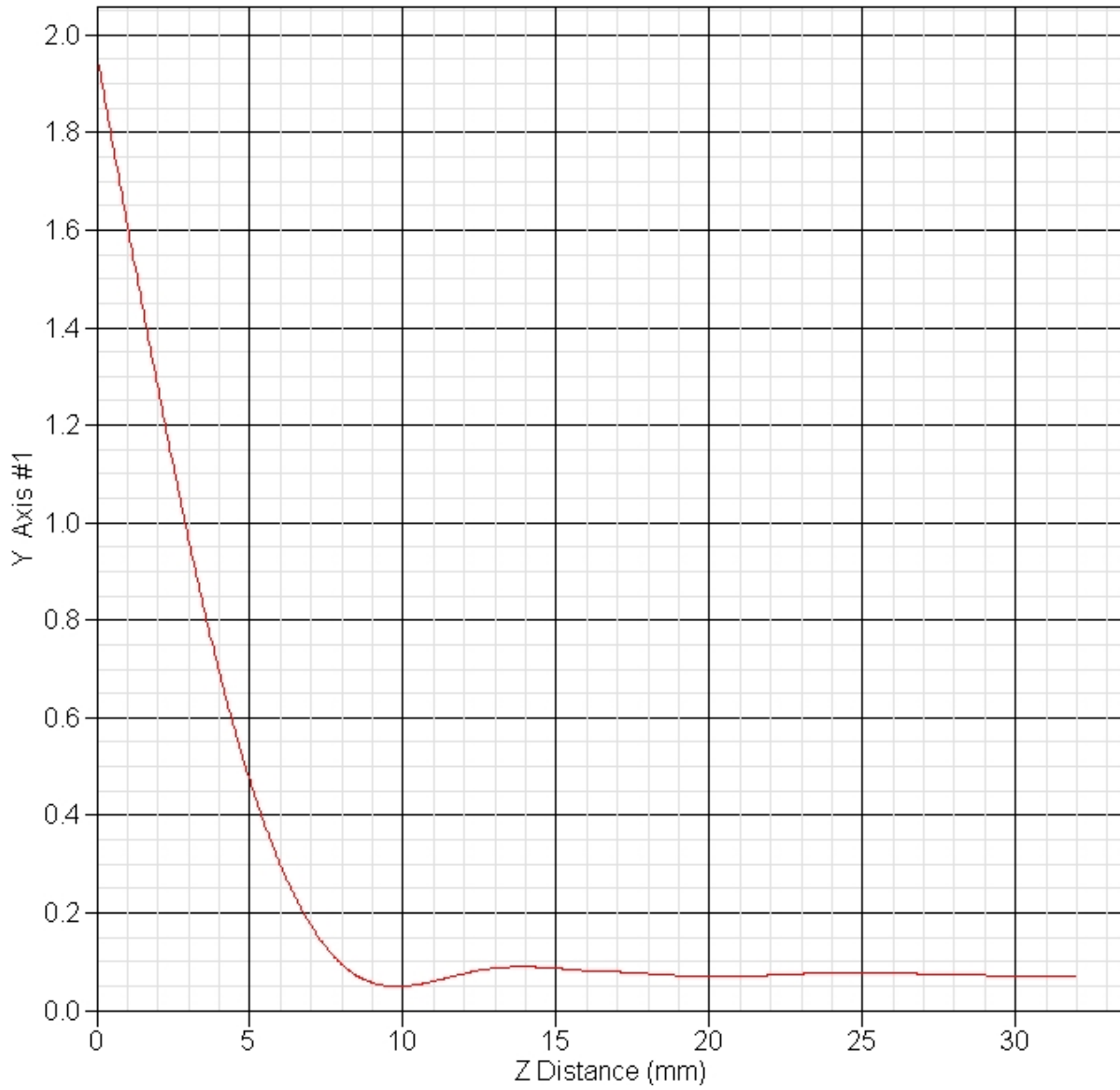


1 gram SAR value : 0.529 W/kg
10 gram SAR value : 0.189 W/kg
Area Scan Peak SAR : 0.554 W/kg
Zoom Scan Peak SAR : 1.961 W/kg

Exposure Assessment Measurement Uncertainty

Source of Uncertainty	Tolerance Value	Probability Distribution	Divisor	c_i^{-1} (1-g)	c_i^{-1} (10-g)	Standard Uncertainty (1-g) %	Standard Uncertainty (10-g) %
Measurement System							
Probe Calibration	3.5	normal	1	1	1	3.5	3.5
Axial Isotropy	3.7	rectangular	•3	$(1-cp)^{1/2}$	$(1-cp)^{1/2}$	1.5	1.5
Hemispherical Isotropy	10.9	rectangular	•3	•cp	•cp	4.4	4.4
Boundary Effect	1.0	rectangular	•3	1	1	0.6	0.6
Linearity	4.7	rectangular	•3	1	1	2.7	2.7
Detection Limit	1.0	rectangular	•3	1	1	0.6	0.6
Readout Electronics	1.0	normal	1	1	1	1.0	1.0
Response Time	0.8	rectangular	•3	1	1	0.5	0.5
Integration Time	1.7	rectangular	•3	1	1	1.0	1.0
RF Ambient Condition	3.0	rectangular	•3	1	1	1.7	1.7
Probe Positioner Mech.	0.4	rectangular	•3	1	1	0.2	0.2
Restriction							
Probe Positioning with respect to Phantom Shell	2.9	rectangular	•3	1	1	1.7	1.7
Extrapolation and Integration	3.7	rectangular	•3	1	1	2.1	2.1
Test Sample Positioning	4.0	normal	1	1	1	4.0	4.0
Device Holder Uncertainty	2.0	normal	1	1	1	2.0	2.0
Drift of Output Power	14.3	rectangular	•3	1	1	8.3	8.3
Phantom and Setup							
Phantom Uncertainty(shape & thickness tolerance)	3.4	rectangular	•3	1	1	2.0	2.0
Liquid Conductivity(target)	5.0	rectangular	•3	0.7	0.5	2.0	1.4
Liquid Conductivity(meas.)	590.4	normal	1	0.7	0.5	413.3	295.2
Liquid Permittivity(target)	5.0	rectangular	•3	0.6	0.5	1.7	1.4
Liquid Permittivity(meas.)	16.2	normal	1	0.6	0.5	9.7	8.1
Combined Uncertainty		RSS				413.6	295.6
Combined Uncertainty (coverage factor=2)		Normal (k=2)				827.2	591.1

SAR-Z Axis at Hotspot x:15.20 y:-0.40



SAR Test Report

Operator : Jay
Validation Date : 16-Jun-2005
Measurement Date : 16-Jun-2005
Starting Time : 16-Jun-2005 12:19:22 PM
End Time : 16-Jun-2005 12:32:14 PM
Scanning Time : 772 secs

Product Data

Device Name : Motion Computing
Serial No. : Intel Module Main Antenna
Type : Other
Model : TS01
Frequency : 5800.00 MHz
Max. Transmit Pwr : 0.05 W
Drift Time : 0 min(s)
Length : 200 mm
Width : 170 mm
Depth : 23 mm
Antenna Type : Internal
Power Drift-Start : 0.235 W/kg
Power Drift-Finish: 0.222 W/kg
Power Drift (%) : -5.532

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 : 5800 MHz
Last Calib. Date : 16-Jun-2005
Temperature : 21 °C
Ambient Temp. : 24 °C
Humidity : 61 RH%
Epsilon : 48.52 F/m
Sigma : 6.16 S/m
Density : 1000 kg/cu. m

Probe Data

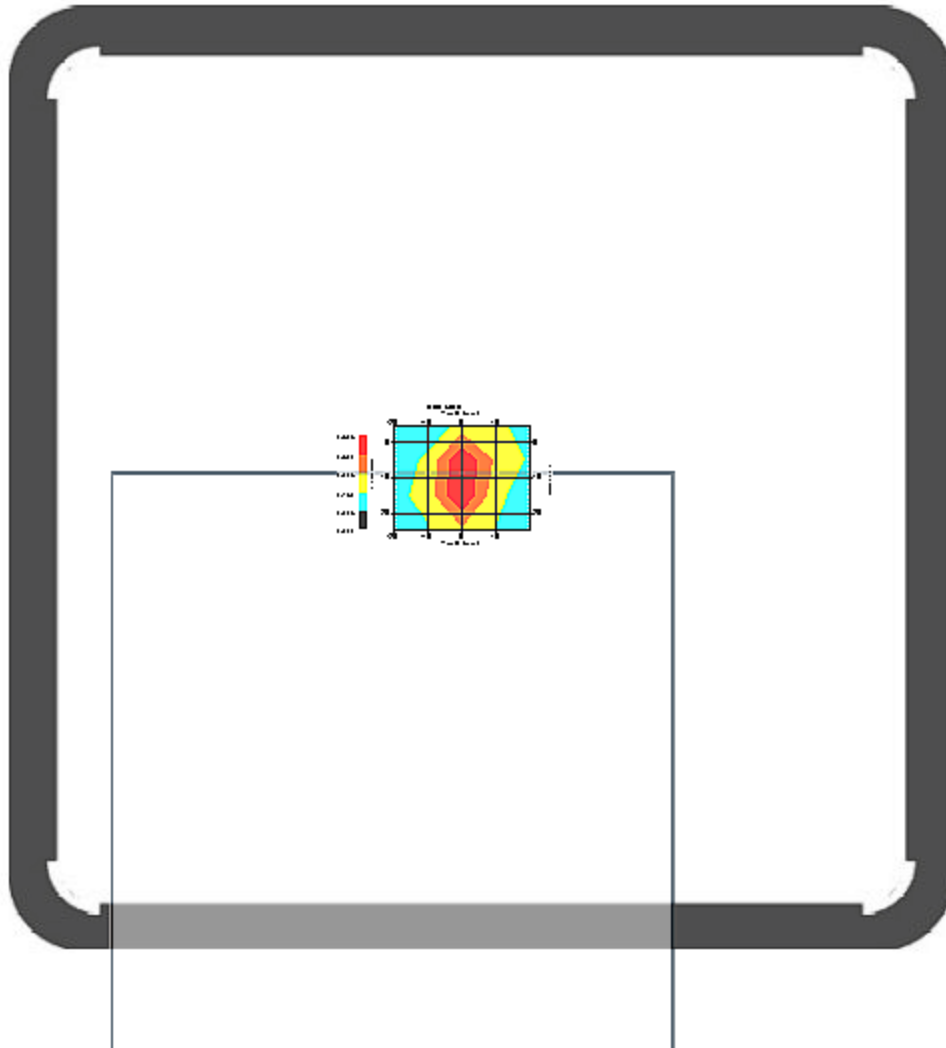
Name : Probe 215 - RFEL
Model : E020
Type : E-Field Triangle
Serial No. : 215
Last Calib. Date : 10-Jun-2005
Frequency : 5800 MHz
Duty Cycle Factor: 1
Conversion Factor: 2.1
Probe Sensitivity: 1.20 1.20 1.20 $\mu\text{V}/(\text{V}/\text{m})^2$
Compression Point: 95 mV
Offset : 1.56 mm

Measurement Data

Crest Factor : 1
Scan Type : Complete
Tissue Temp. : 21°C
Ambient Temp. : 24°C
Set-up Date : 16-Jun-2005
Set-up Time : 12:17:25 PM
Area Scan : 4x5x1 : Measurement x=10mm, y=10mm, z=4mm
Zoom Scan : 5x5x8 : Measurement x=8mm, y=8mm, z=4mm

Other Data

DUT Position : Touch
Separation : 0
Channel : Mid - 5765



1 gram SAR value : 0.343 W/kg
10 gram SAR value : 0.163 W/kg
Area Scan Peak SAR : 0.375 W/kg
Zoom Scan Peak SAR : 0.980 W/kg

Exposure Assessment Measurement Uncertainty

Source of Uncertainty	Tolerance Value	Probability Distribution	Divisor	c_i^{-1} (1-g)	c_i^{-1} (10-g)	Standard Uncertainty (1-g) %	Standard Uncertainty (10-g) %
Measurement System							
Probe Calibration	3.5	normal	1	1	1	3.5	3.5
Axial Isotropy	3.7	rectangular	•3	$(1-cp)^{1/2}$	$(1-cp)^{1/2}$	1.5	1.5
Hemispherical Isotropy	10.9	rectangular	•3	•cp	•cp	4.4	4.4
Boundary Effect	1.0	rectangular	•3	1	1	0.6	0.6
Linearity	4.7	rectangular	•3	1	1	2.7	2.7
Detection Limit	1.0	rectangular	•3	1	1	0.6	0.6
Readout Electronics	1.0	normal	1	1	1	1.0	1.0
Response Time	0.8	rectangular	•3	1	1	0.5	0.5
Integration Time	1.7	rectangular	•3	1	1	1.0	1.0
RF Ambient Condition	3.0	rectangular	•3	1	1	1.7	1.7
Probe Positioner Mech.	0.4	rectangular	•3	1	1	0.2	0.2
Restriction							
Probe Positioning with respect to Phantom Shell	2.9	rectangular	•3	1	1	1.7	1.7
Extrapolation and Integration	3.7	rectangular	•3	1	1	2.1	2.1
Test Sample Positioning	4.0	normal	1	1	1	4.0	4.0
Device Holder Uncertainty	2.0	normal	1	1	1	2.0	2.0
Drift of Output Power	43.2	rectangular	•3	1	1	24.9	24.9
Phantom and Setup							
Phantom Uncertainty(shape & thickness tolerance)	3.4	rectangular	•3	1	1	2.0	2.0
Liquid Conductivity(target)	5.0	rectangular	•3	0.7	0.5	2.0	1.4
Liquid Conductivity(meas.)	642.2	normal	1	0.7	0.5	449.5	321.1
Liquid Permittivity(target)	5.0	rectangular	•3	0.6	0.5	1.7	1.4
Liquid Permittivity(meas.)	16.3	normal	1	0.6	0.5	9.8	8.2
Combined Uncertainty		RSS				450.4	322.3
Combined Uncertainty (coverage factor=2)		Normal (k=2)				900.8	644.6

SAR Test Report

Operator : Jay
Validation Date : 16-Jun-2005
Measurement Date : 16-Jun-2005
Starting Time : 16-Jun-2005 01:16:04 PM
End Time : 16-Jun-2005 01:28:36 PM
Scanning Time : 752 secs

Product Data

Device Name : Motion Computing
Serial No. : Gemtech Module Main Antenna
Type : Other
Model : TS01
Frequency : 5800.00 MHz
Max. Transmit Pwr : 0.05 W
Drift Time : 0 min(s)
Length : 200 mm
Width : 170 mm
Depth : 23 mm
Antenna Type : Internal
Power Drift-Start : 0.155 W/kg
Power Drift-Finish: 0.150 W/kg
Power Drift (%) : -3.226

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 : 5800 MHz
Last Calib. Date : 16-Jun-2005
Temperature : 21 °C
Ambient Temp. : 24 °C
Humidity : 61 RH%
Epsilon : 48.52 F/m
Sigma : 6.16 S/m
Density : 1000 kg/cu. m

Probe Data

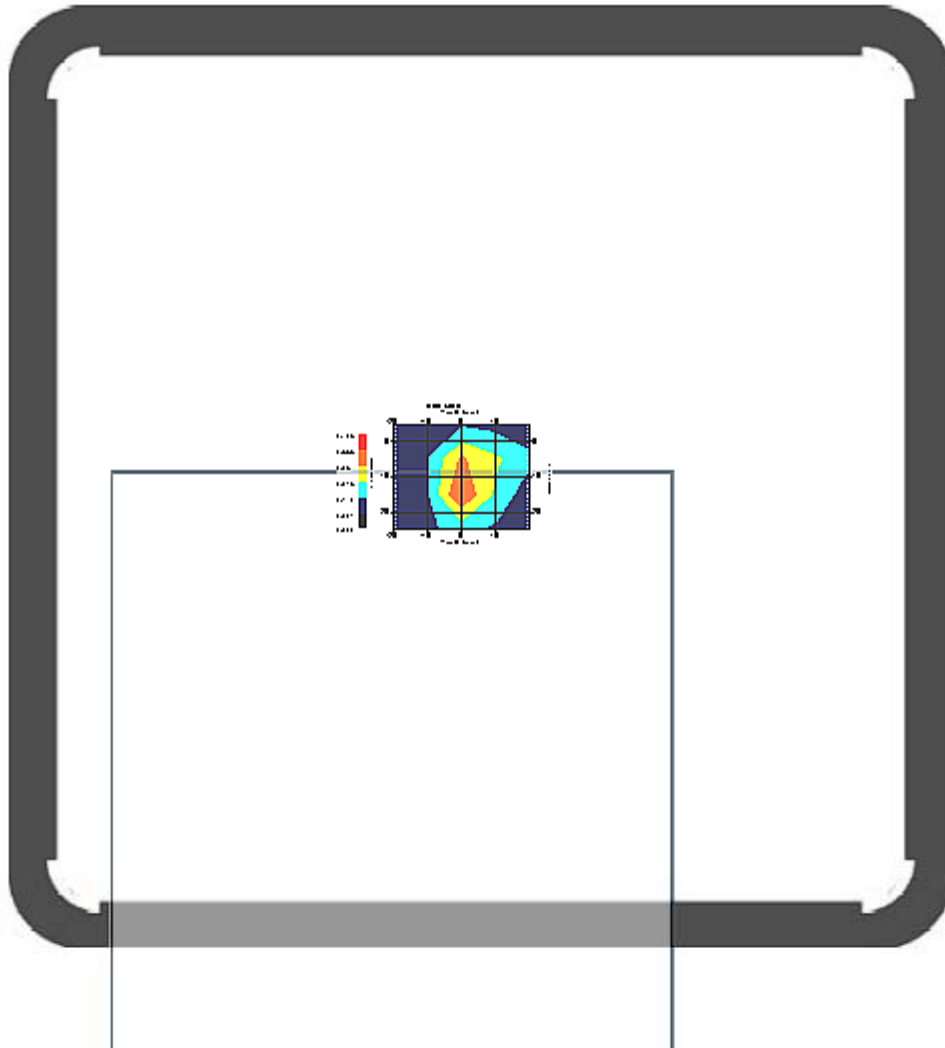
Name : Probe 215 - RFEL
Model : E020
Type : E-Field Triangle
Serial No. : 215
Last Calib. Date : 10-Jun-2005
Frequency : 5800 MHz
Duty Cycle Factor: 1
Conversion Factor: 2.1
Probe Sensitivity: 1.20 1.20 1.20 $\mu\text{V}/(\text{V}/\text{m})^2$
Compression Point: 95 mV
Offset : 1.56 mm

Measurement Data

Crest Factor : 1
Scan Type : Complete
Tissue Temp. : 21°C
Ambient Temp. : 24°C
Set-up Date : 16-Jun-2005
Set-up Time : 1:14:49 PM
Area Scan : 4x5x1 : Measurement x=10mm, y=10mm, z=4mm
Zoom Scan : 5x5x8 : Measurement x=8mm, y=8mm, z=4mm

Other Data

DUT Position : Touch
Separation : 0
Channel : Mid - 5765



1 gram SAR value : 0.269 W/kg
10 gram SAR value : 0.137 W/kg
Area Scan Peak SAR : 0.356 W/kg
Zoom Scan Peak SAR : 0.750 W/kg

Exposure Assessment Measurement Uncertainty

Source of Uncertainty	Tolerance Value	Probability Distribution	Divisor	c_i^{-1} (1-g)	c_i^{-1} (10-g)	Standard Uncertainty (1-g) %	Standard Uncertainty (10-g) %
Measurement System							
Probe Calibration	3.5	normal	1	1	1	3.5	3.5
Axial Isotropy	3.7	rectangular	•3	$(1-cp)^{1/2}$	$(1-cp)^{1/2}$	1.5	1.5
Hemispherical Isotropy	10.9	rectangular	•3	•cp	•cp	4.4	4.4
Boundary Effect	1.0	rectangular	•3	1	1	0.6	0.6
Linearity	4.7	rectangular	•3	1	1	2.7	2.7
Detection Limit	1.0	rectangular	•3	1	1	0.6	0.6
Readout Electronics	1.0	normal	1	1	1	1.0	1.0
Response Time	0.8	rectangular	•3	1	1	0.5	0.5
Integration Time	1.7	rectangular	•3	1	1	1.0	1.0
RF Ambient Condition	3.0	rectangular	•3	1	1	1.7	1.7
Probe Positioner Mech.	0.4	rectangular	•3	1	1	0.2	0.2
Restriction							
Probe Positioning with respect to Phantom Shell	2.9	rectangular	•3	1	1	1.7	1.7
Extrapolation and Integration	3.7	rectangular	•3	1	1	2.1	2.1
Test Sample Positioning	4.0	normal	1	1	1	4.0	4.0
Device Holder Uncertainty	2.0	normal	1	1	1	2.0	2.0
Drift of Output Power	29.2	rectangular	•3	1	1	16.9	16.9
Phantom and Setup							
Phantom Uncertainty(shape & thickness tolerance)	3.4	rectangular	•3	1	1	2.0	2.0
Liquid Conductivity(target)	5.0	rectangular	•3	0.7	0.5	2.0	1.4
Liquid Conductivity(meas.)	642.2	normal	1	0.7	0.5	449.5	321.1
Liquid Permittivity(target)	5.0	rectangular	•3	0.6	0.5	1.7	1.4
Liquid Permittivity(meas.)	16.3	normal	1	0.6	0.5	9.8	8.2
Combined Uncertainty		RSS				450.0	321.8
Combined Uncertainty (coverage factor=2)		Normal (k=2)				900.0	643.6

SAR Test Report

Operator : Jay
Validation Date : 16-Jun-2005
Measurement Date : 16-Jun-2005
Starting Time : 16-Jun-2005 11:42:45 AM
End Time : 16-Jun-2005 11:55:50 AM
Scanning Time : 785 secs

Product Data

Device Name : Motion Computing
Serial No. : Intel Module Aux Antenna
Type : Other
Model : TS01
Frequency : 5800.00 MHz
Max. Transmit Pwr : 0.05 W
Drift Time : 0 min(s)
Length : 200 mm
Width : 170 mm
Depth : 23 mm
Antenna Type : Internal
Power Drift-Start : 0.127 W/kg
Power Drift-Finish: 0.130 W/kg
Power Drift (%) : 2.362

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 : 5800 MHz
Last Calib. Date : 16-Jun-2005
Temperature : 21 °C
Ambient Temp. : 24 °C
Humidity : 61 RH%
Epsilon : 48.52 F/m
Sigma : 6.16 S/m
Density : 1000 kg/cu. m

Probe Data

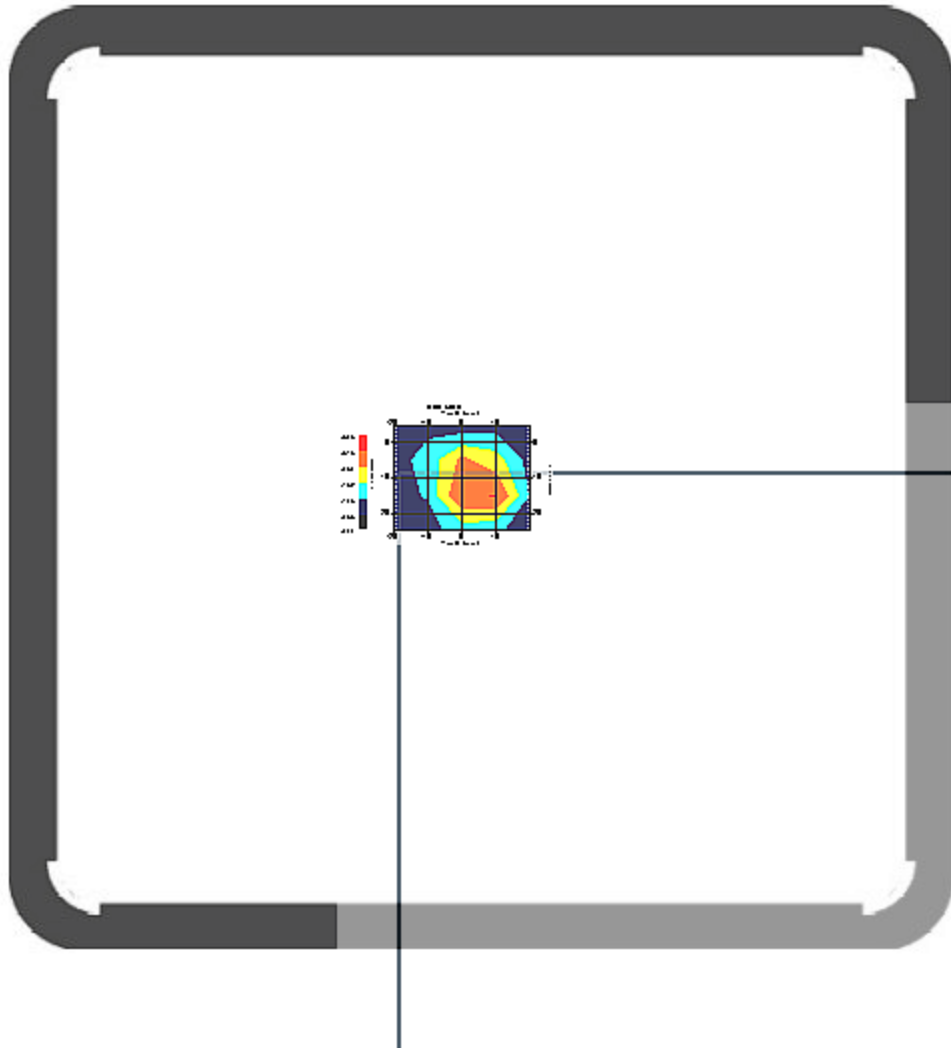
Name : Probe 215 - RFEL
Model : E020
Type : E-Field Triangle
Serial No. : 215
Last Calib. Date : 10-Jun-2005
Frequency : 5800 MHz
Duty Cycle Factor: 1
Conversion Factor: 2.1
Probe Sensitivity: 1.20 1.20 1.20 $\mu\text{V}/(\text{V}/\text{m})^2$
Compression Point: 95 mV
Offset : 1.56 mm

Measurement Data

Crest Factor : 1
Scan Type : Complete
Tissue Temp. : 21°C
Ambient Temp. : 24°C
Set-up Date : 16-Jun-2005
Set-up Time : 11:37:19 AM
Area Scan : 4x5x1 : Measurement x=10mm, y=10mm, z=4mm
Zoom Scan : 5x5x8 : Measurement x=8mm, y=8mm, z=4mm

Other Data

DUT Position : Touch
Separation : 0
Channel : Mid - 5765



1 gram SAR value : 0.252 W/kg
10 gram SAR value : 0.135 W/kg
Area Scan Peak SAR : 0.316 W/kg
Zoom Scan Peak SAR : 0.700 W/kg

Exposure Assessment Measurement Uncertainty

Source of Uncertainty	Tolerance Value	Probability Distribution	Divisor	c_i^{-1} (1-g)	c_i^{-1} (10-g)	Standard Uncertainty (1-g) %	Standard Uncertainty (10-g) %
Measurement System							
Probe Calibration	3.5	normal	1	1	1	3.5	3.5
Axial Isotropy	3.7	rectangular	•3	$(1-cp)^{1/2}$	$(1-cp)^{1/2}$	1.5	1.5
Hemispherical Isotropy	10.9	rectangular	•3	•cp	•cp	4.4	4.4
Boundary Effect	1.0	rectangular	•3	1	1	0.6	0.6
Linearity	4.7	rectangular	•3	1	1	2.7	2.7
Detection Limit	1.0	rectangular	•3	1	1	0.6	0.6
Readout Electronics	1.0	normal	1	1	1	1.0	1.0
Response Time	0.8	rectangular	•3	1	1	0.5	0.5
Integration Time	1.7	rectangular	•3	1	1	1.0	1.0
RF Ambient Condition	3.0	rectangular	•3	1	1	1.7	1.7
Probe Positioner Mech.	0.4	rectangular	•3	1	1	0.2	0.2
Restriction							
Probe Positioning with respect to Phantom Shell	2.9	rectangular	•3	1	1	1.7	1.7
Extrapolation and Integration	3.7	rectangular	•3	1	1	2.1	2.1
Test Sample Positioning	4.0	normal	1	1	1	4.0	4.0
Device Holder Uncertainty	2.0	normal	1	1	1	2.0	2.0
Drift of Output Power	10.6	rectangular	•3	1	1	6.1	6.1
Phantom and Setup							
Phantom Uncertainty(shape & thickness tolerance)	3.4	rectangular	•3	1	1	2.0	2.0
Liquid Conductivity(target)	5.0	rectangular	•3	0.7	0.5	2.0	1.4
Liquid Conductivity(meas.)	642.2	normal	1	0.7	0.5	449.5	321.1
Liquid Permittivity(target)	5.0	rectangular	•3	0.6	0.5	1.7	1.4
Liquid Permittivity(meas.)	16.3	normal	1	0.6	0.5	9.8	8.2
Combined Uncertainty		RSS				449.7	321.4
Combined Uncertainty (coverage factor=2)		Normal (k=2)				899.5	642.8

SAR Test Report

Operator : Jay
Validation Date : 16-Jun-2005
Measurement Date : 16-Jun-2005
Starting Time : 16-Jun-2005 12:58:17 PM
End Time : 16-Jun-2005 01:10:57 PM
Scanning Time : 760 secs

Product Data

Device Name : Motion Computing
Serial No. : Gemtech Module Aux Antenna
Type : Other
Model : TS01
Frequency : 5800.00 MHz
Max. Transmit Pwr : 0.05 W
Drift Time : 0 min(s)
Length : 200 mm
Width : 170 mm
Depth : 23 mm
Antenna Type : Internal
Power Drift-Start : 0.115 W/kg
Power Drift-Finish: 0.119 W/kg
Power Drift (%) : 3.478

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 : 5800 MHz
Last Calib. Date : 16-Jun-2005
Temperature : 21 °C
Ambient Temp. : 24 °C
Humidity : 61 RH%
Epsilon : 48.52 F/m
Sigma : 6.16 S/m
Density : 1000 kg/cu. m

Probe Data

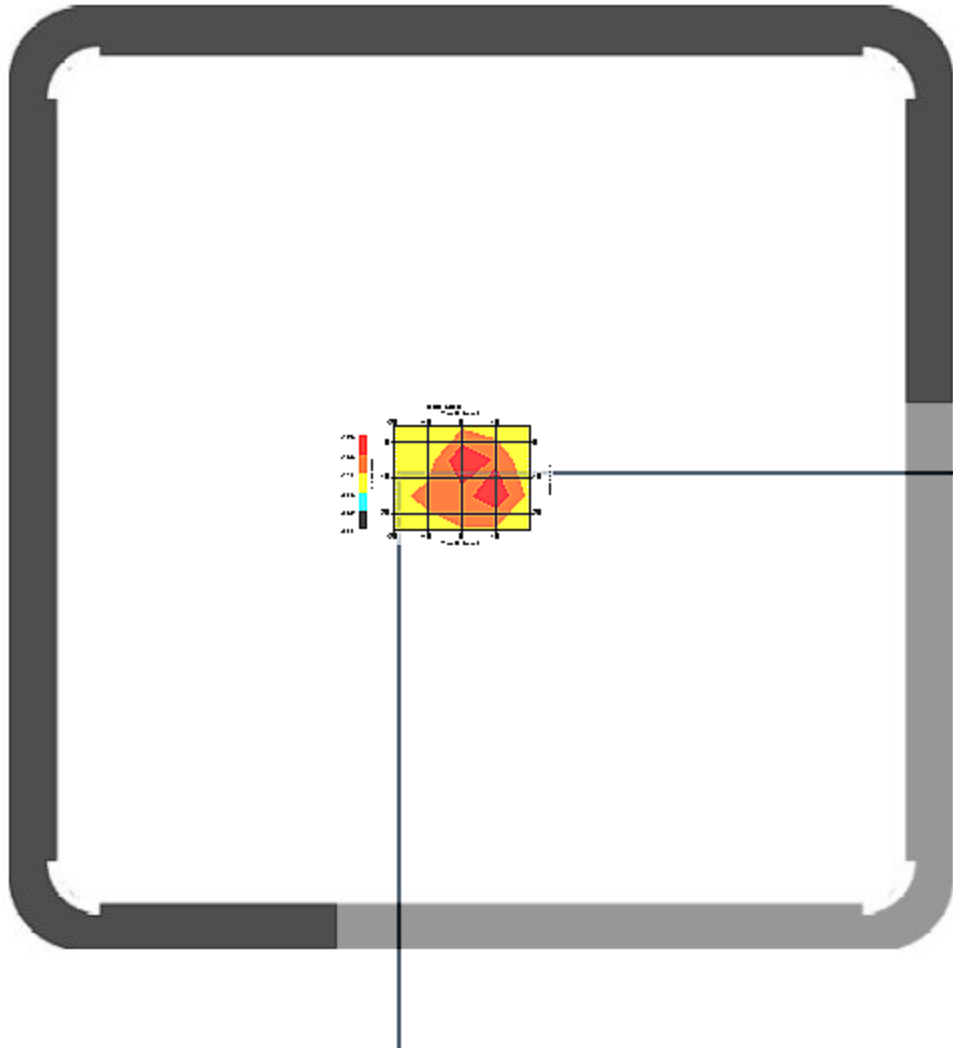
Name : Probe 215 - RFEL
Model : E020
Type : E-Field Triangle
Serial No. : 215
Last Calib. Date : 10-Jun-2005
Frequency : 5800 MHz
Duty Cycle Factor: 1
Conversion Factor: 2.1
Probe Sensitivity: 1.20 1.20 1.20 $\mu\text{V}/(\text{V}/\text{m})^2$
Compression Point: 95 mV
Offset : 1.56 mm

Measurement Data

Crest Factor : 1
Scan Type : Complete
Tissue Temp. : 21°C
Ambient Temp. : 24°C
Set-up Date : 16-Jun-2005
Set-up Time : 12:54:38 PM
Area Scan : 4x5x1 : Measurement x=10mm, y=10mm, z=4mm
Zoom Scan : 5x5x8 : Measurement x=8mm, y=8mm, z=4mm

Other Data

DUT Position : Touch
Separation : 0
Channel : Mid - 5765



1 gram SAR value : 0.169 W/kg
10 gram SAR value : 0.127 W/kg
Area Scan Peak SAR : 0.193 W/kg
Zoom Scan Peak SAR : 0.410 W/kg

Exposure Assessment Measurement Uncertainty

Source of Uncertainty	Tolerance Value	Probability Distribution	Divisor	c_i^{-1} (1-g)	c_i^{-1} (10-g)	Standard Uncertainty (1-g) %	Standard Uncertainty (10-g) %
Measurement System							
Probe Calibration	3.5	normal	1	1	1	3.5	3.5
Axial Isotropy	3.7	rectangular	•3	$(1-cp)^{1/2}$	$(1-cp)^{1/2}$	1.5	1.5
Hemispherical Isotropy	10.9	rectangular	•3	•cp	•cp	4.4	4.4
Boundary Effect	1.0	rectangular	•3	1	1	0.6	0.6
Linearity	4.7	rectangular	•3	1	1	2.7	2.7
Detection Limit	1.0	rectangular	•3	1	1	0.6	0.6
Readout Electronics	1.0	normal	1	1	1	1.0	1.0
Response Time	0.8	rectangular	•3	1	1	0.5	0.5
Integration Time	1.7	rectangular	•3	1	1	1.0	1.0
RF Ambient Condition	3.0	rectangular	•3	1	1	1.7	1.7
Probe Positioner Mech.	0.4	rectangular	•3	1	1	0.2	0.2
Restriction							
Probe Positioning with respect to Phantom Shell	2.9	rectangular	•3	1	1	1.7	1.7
Extrapolation and Integration	3.7	rectangular	•3	1	1	2.1	2.1
Test Sample Positioning	4.0	normal	1	1	1	4.0	4.0
Device Holder Uncertainty	2.0	normal	1	1	1	2.0	2.0
Drift of Output Power	13.9	rectangular	•3	1	1	8.0	8.0
Phantom and Setup							
Phantom Uncertainty(shape & thickness tolerance)	3.4	rectangular	•3	1	1	2.0	2.0
Liquid Conductivity(target)	5.0	rectangular	•3	0.7	0.5	2.0	1.4
Liquid Conductivity(meas.)	642.2	normal	1	0.7	0.5	449.5	321.1
Liquid Permittivity(target)	5.0	rectangular	•3	0.6	0.5	1.7	1.4
Liquid Permittivity(meas.)	16.3	normal	1	0.6	0.5	9.8	8.2
Combined Uncertainty		RSS				449.8	321.4
Combined Uncertainty (coverage factor=2)		Normal (k=2)				899.5	642.9

SAR Test Report

Operator : Jay
Validation Date : 16-Jun-2005
Measurement Date : 16-Jun-2005
Starting Time : 16-Jun-2005 12:36:46 PM
End Time : 16-Jun-2005 12:49:24 PM
Scanning Time : 758 secs

Product Data

Device Name : Motion Computing
Serial No. : Intel Module Main Antenna w/BT
Type : Other
Model : TS01
Frequency : 5800.00 MHz
Max. Transmit Pwr : 0.05 W
Drift Time : 0 min(s)
Length : 200 mm
Width : 170 mm
Depth : 23 mm
Antenna Type : Internal
Power Drift-Start : 0.202 W/kg
Power Drift-Finish: 0.207 W/kg
Power Drift (%) : 2.475

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 : 5800 MHz
Last Calib. Date : 16-Jun-2005
Temperature : 21 °C
Ambient Temp. : 24 °C
Humidity : 61 RH%
Epsilon : 48.52 F/m
Sigma : 6.16 S/m
Density : 1000 kg/cu. m

Probe Data

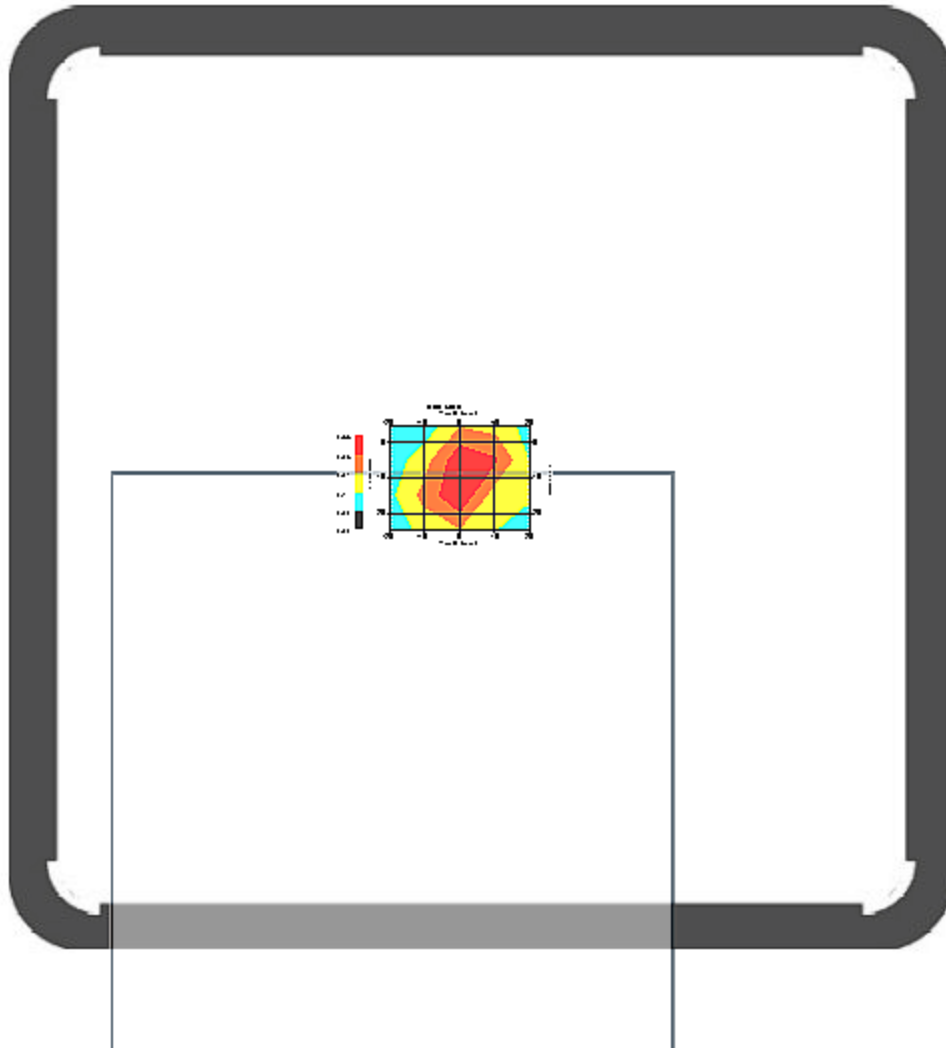
Name : Probe 215 - RFEL
Model : E020
Type : E-Field Triangle
Serial No. : 215
Last Calib. Date : 10-Jun-2005
Frequency : 5800 MHz
Duty Cycle Factor: 1
Conversion Factor: 2.1
Probe Sensitivity: 1.20 1.20 1.20 $\mu\text{V}/(\text{V}/\text{m})^2$
Compression Point: 95 mV
Offset : 1.56 mm

Measurement Data

Crest Factor : 1
Scan Type : Complete
Tissue Temp. : 21°C
Ambient Temp. : 24°C
Set-up Date : 16-Jun-2005
Set-up Time : 12:17:25 PM
Area Scan : 4x5x1 : Measurement x=10mm, y=10mm, z=4mm
Zoom Scan : 5x5x8 : Measurement x=8mm, y=8mm, z=4mm

Other Data

DUT Position : Touch
Separation : 0
Channel : Mid - 5765

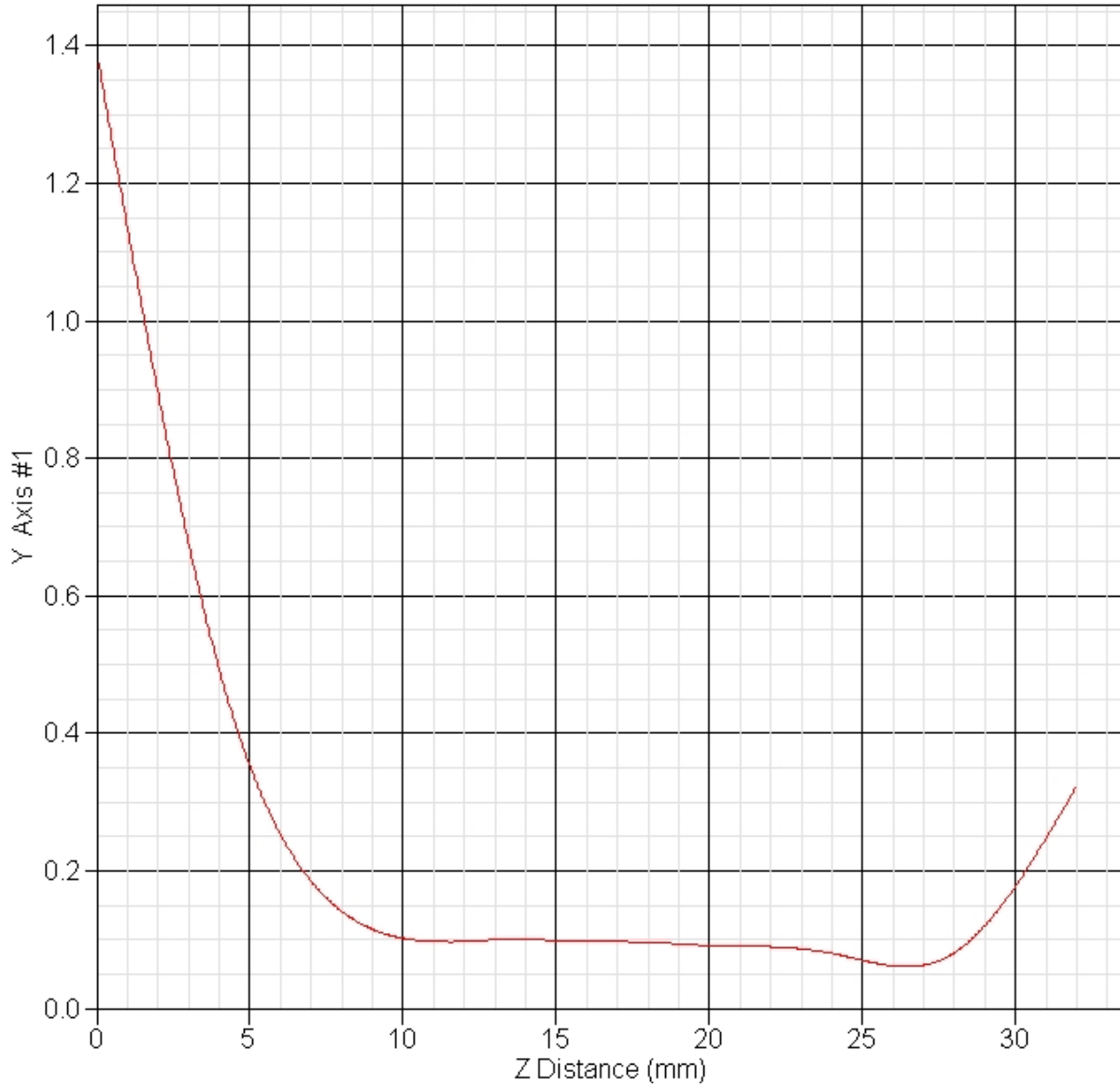


1 gram SAR value : 0.470 W/kg
10 gram SAR value : 0.208 W/kg
Area Scan Peak SAR : 0.348 W/kg
Zoom Scan Peak SAR : 1.391 W/kg

Exposure Assessment Measurement Uncertainty

Source of Uncertainty	Tolerance Value	Probability Distribution	Divisor	c_i^{-1} (1-g)	c_i^{-1} (10-g)	Standard Uncertainty (1-g) %	Standard Uncertainty (10-g) %
Measurement System							
Probe Calibration	3.5	normal	1	1	1	3.5	3.5
Axial Isotropy	3.7	rectangular	•3	$(1-cp)^{1/2}$	$(1-cp)^{1/2}$	1.5	1.5
Hemispherical Isotropy	10.9	rectangular	•3	•cp	•cp	4.4	4.4
Boundary Effect	1.0	rectangular	•3	1	1	0.6	0.6
Linearity	4.7	rectangular	•3	1	1	2.7	2.7
Detection Limit	1.0	rectangular	•3	1	1	0.6	0.6
Readout Electronics	1.0	normal	1	1	1	1.0	1.0
Response Time	0.8	rectangular	•3	1	1	0.5	0.5
Integration Time	1.7	rectangular	•3	1	1	1.0	1.0
RF Ambient Condition	3.0	rectangular	•3	1	1	1.7	1.7
Probe Positioner Mech.	0.4	rectangular	•3	1	1	0.2	0.2
Restriction							
Probe Positioning with respect to Phantom Shell	2.9	rectangular	•3	1	1	1.7	1.7
Extrapolation and Integration	3.7	rectangular	•3	1	1	2.1	2.1
Test Sample Positioning	4.0	normal	1	1	1	4.0	4.0
Device Holder Uncertainty	2.0	normal	1	1	1	2.0	2.0
Drift of Output Power	42.3	rectangular	•3	1	1	24.4	24.4
Phantom and Setup							
Phantom Uncertainty(shape & thickness tolerance)	3.4	rectangular	•3	1	1	2.0	2.0
Liquid Conductivity(target)	5.0	rectangular	•3	0.7	0.5	2.0	1.4
Liquid Conductivity(meas.)	642.2	normal	1	0.7	0.5	449.5	321.1
Liquid Permittivity(target)	5.0	rectangular	•3	0.6	0.5	1.7	1.4
Liquid Permittivity(meas.)	16.3	normal	1	0.6	0.5	9.8	8.2
Combined Uncertainty		RSS				450.4	322.3
Combined Uncertainty (coverage factor=2)		Normal (k=2)				900.7	644.5

SAR-Z Axis at Hotspot x:7.20 y:-0.50



SAR Test Report

Operator : Jay
Validation Date : 17-Jun-2005
Measurement Date : 17-Jun-2005
Starting Time : 17-Jun-2005 01:00:48 PM
End Time : 17-Jun-2005 01:13:53 PM
Scanning Time : 785 secs

Product Data

Device Name : Motion Computing
Serial No. : Intel Module Main Antenna
Type : Other
Model : TS01
Frequency : 2450.00 MHz
Max. Transmit Pwr : 0.05 W
Drift Time : 0 min(s)
Length : 200 mm
Width : 170 mm
Depth : 23 mm
Antenna Type : Internal
Power Drift-Start : 0.100 W/kg
Power Drift-Finish: 0.098 W/kg
Power Drift (%) : -2.025

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. : 2450
Frequency : 2450 MHz
Last Calib. Date : 17-Jun-2005
Temperature : 21 °C
Ambient Temp. : 23 °C
Humidity : 51 RH%
Epsilon : 52.21 F/m
Sigma : 1.98 S/m
Density : 1000 kg/cu. m

Probe Data

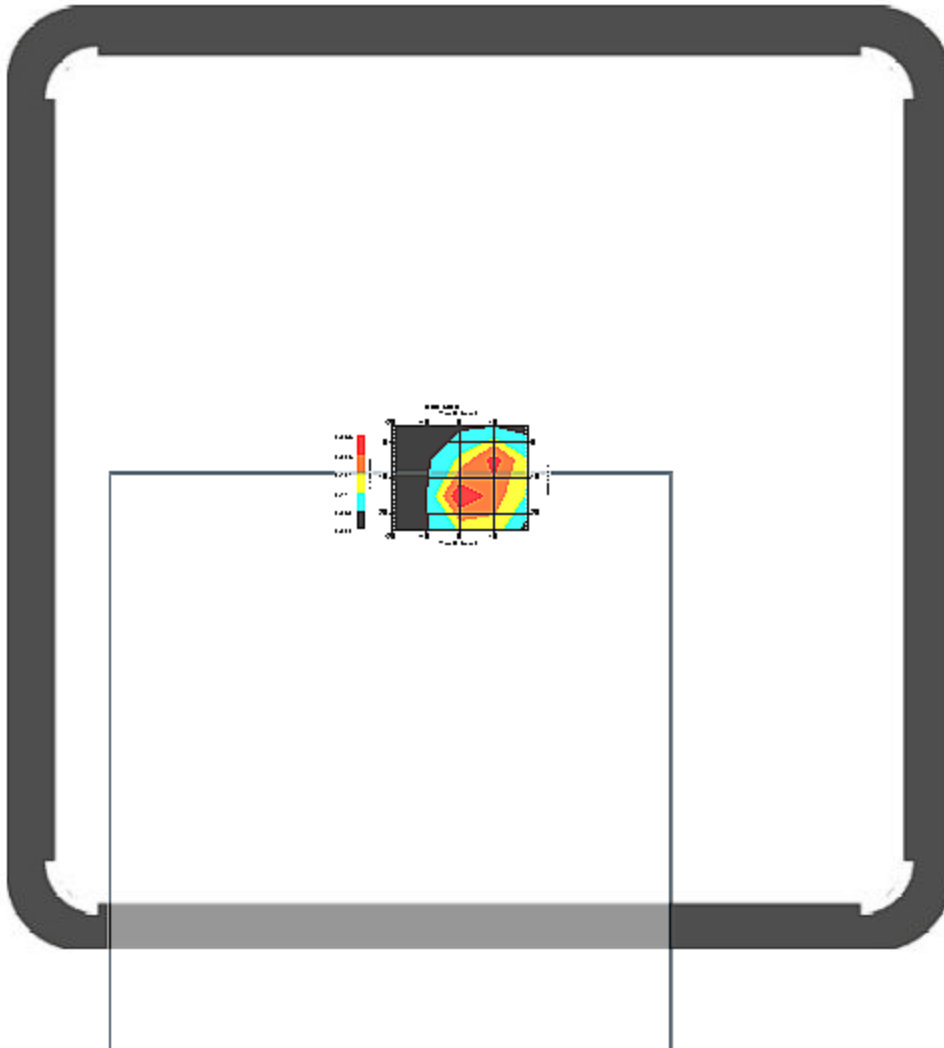
Name : Probe 215 - RFEL
Model : E020
Type : E-Field Triangle
Serial No. : 215
Last Calib. Date : 10-Jun-2005
Frequency : 2450 MHz
Duty Cycle Factor: 1
Conversion Factor: 3.6
Probe Sensitivity: 1.20 1.20 1.20 $\mu\text{V}/(\text{V}/\text{m})^2$
Compression Point: 95 mV
Offset : 1.56 mm

Measurement Data

Crest Factor : 1
Scan Type : Complete
Tissue Temp. : 21°C
Ambient Temp. : 24°C
Set-up Date : 17-Jun-2005
Set-up Time : 1:00:39 PM
Area Scan : 4x5x1 : Measurement x=10mm, y=10mm, z=4mm
Zoom Scan : 5x5x8 : Measurement x=8mm, y=8mm, z=4mm

Other Data

DUT Position : Touch
Separation : 0
Channel : Mid - 2437



1 gram SAR value : 0.262 W/kg
10 gram SAR value : 0.109 W/kg
Area Scan Peak SAR : 0.283 W/kg
Zoom Scan Peak SAR : 0.590 W/kg

Exposure Assessment Measurement Uncertainty

Source of Uncertainty	Tolerance Value	Probability Distribution	Divisor	c_i^{-1} (1-g)	c_i^{-1} (10-g)	Standard Uncertainty (1-g) %	Standard Uncertainty (10-g) %
Measurement System							
Probe Calibration	3.5	normal	1	1	1	3.5	3.5
Axial Isotropy	3.7	rectangular	•3	$(1-cp)^{1/2}$	$(1-cp)^{1/2}$	1.5	1.5
Hemispherical Isotropy	10.9	rectangular	•3	•cp	•cp	4.4	4.4
Boundary Effect	1.0	rectangular	•3	1	1	0.6	0.6
Linearity	4.7	rectangular	•3	1	1	2.7	2.7
Detection Limit	1.0	rectangular	•3	1	1	0.6	0.6
Readout Electronics	1.0	normal	1	1	1	1.0	1.0
Response Time	0.8	rectangular	•3	1	1	0.5	0.5
Integration Time	1.7	rectangular	•3	1	1	1.0	1.0
RF Ambient Condition	3.0	rectangular	•3	1	1	1.7	1.7
Probe Positioner Mech.	0.4	rectangular	•3	1	1	0.2	0.2
Restriction							
Probe Positioning with respect to Phantom Shell	2.9	rectangular	•3	1	1	1.7	1.7
Extrapolation and Integration	3.7	rectangular	•3	1	1	2.1	2.1
Test Sample Positioning	4.0	normal	1	1	1	4.0	4.0
Device Holder Uncertainty	2.0	normal	1	1	1	2.0	2.0
Drift of Output Power	32.4	rectangular	•3	1	1	18.7	18.7
Phantom and Setup							
Phantom Uncertainty(shape & thickness tolerance)	3.4	rectangular	•3	1	1	2.0	2.0
Liquid Conductivity(target)	5.0	rectangular	•3	0.7	0.5	2.0	1.4
Liquid Conductivity(meas.)	138.6	normal	1	0.7	0.5	97.0	69.3
Liquid Permittivity(target)	5.0	rectangular	•3	0.6	0.5	1.7	1.4
Liquid Permittivity(meas.)	10.0	normal	1	0.6	0.5	6.0	5.0
Combined Uncertainty		RSS				99.4	72.5
Combined Uncertainty (coverage factor=2)		Normal (k=2)				198.8	145.0

SAR Test Report

Operator : Jay
Validation Date : 17-Jun-2005
Measurement Date : 17-Jun-2005
Starting Time : 17-Jun-2005 02:13:35 PM
End Time : 17-Jun-2005 02:26:23 PM
Scanning Time : 768 secs

Product Data

Device Name : Motion Computing
Serial No. : Gemtech Module Main Antenna
Type : Other
Model : TS01
Frequency : 2450.00 MHz
Max. Transmit Pwr : 0.05 W
Drift Time : 0 min(s)
Length : 200 mm
Width : 170 mm
Depth : 23 mm
Antenna Type : Internal
Power Drift-Start : 0.392 W/kg
Power Drift-Finish: 0.373 W/kg
Power Drift (%) : -4.847

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. : 2450
Frequency : 2450 MHz
Last Calib. Date : 17-Jun-2005
Temperature : 21 °C
Ambient Temp. : 23 °C
Humidity : 51 RH%
Epsilon : 52.21 F/m
Sigma : 1.98 S/m
Density : 1000 kg/cu. m

Probe Data

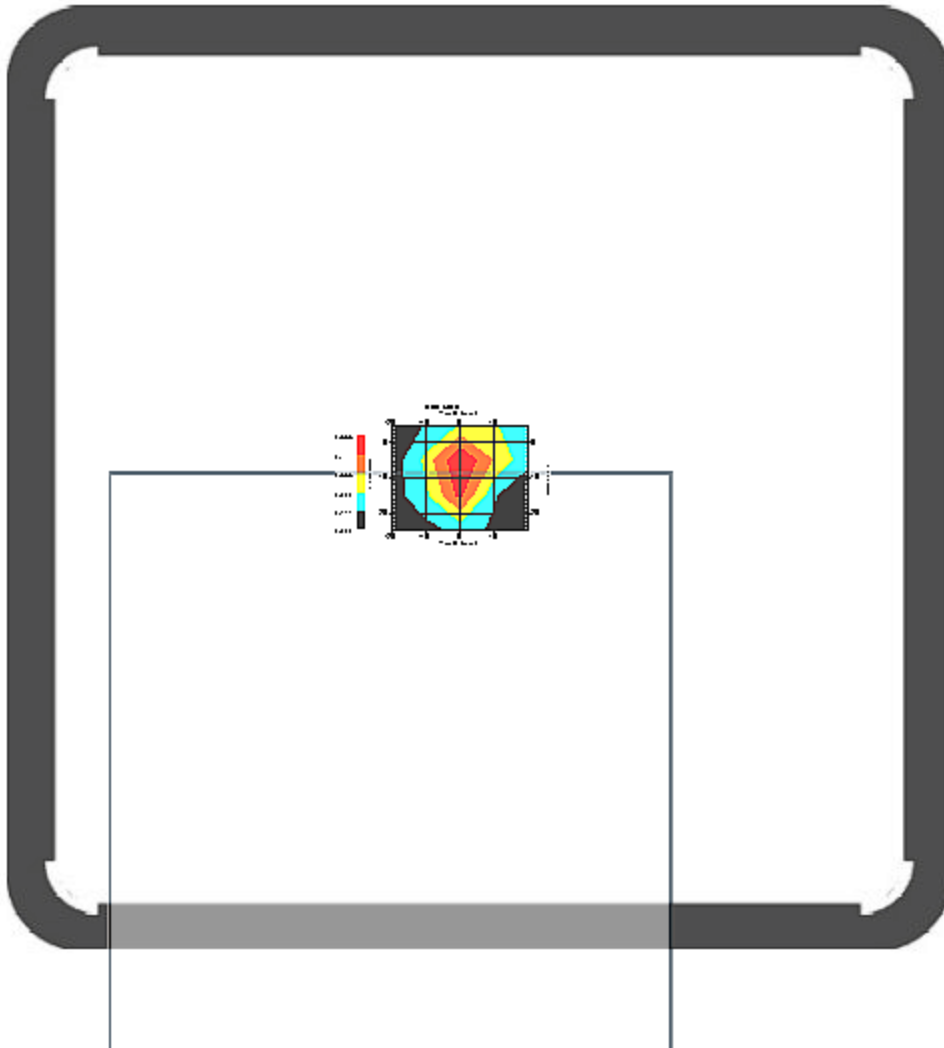
Name : Probe 215 - RFEL
Model : E020
Type : E-Field Triangle
Serial No. : 215
Last Calib. Date : 10-Jun-2005
Frequency : 2450 MHz
Duty Cycle Factor: 1
Conversion Factor: 3.6
Probe Sensitivity: 1.20 1.20 1.20 $\mu\text{V}/(\text{V}/\text{m})^2$
Compression Point: 95 mV
Offset : 1.56 mm

Measurement Data

Crest Factor : 1
Scan Type : Complete
Tissue Temp. : 21°C
Ambient Temp. : 24°C
Set-up Date : 17-Jun-2005
Set-up Time : 1:57:46 PM
Area Scan : 4x5x1 : Measurement x=10mm, y=10mm, z=4mm
Zoom Scan : 5x5x8 : Measurement x=8mm, y=8mm, z=4mm

Other Data

DUT Position : Touch
Separation : 0
Channel : Mid - 2437



1 gram SAR value : 0.401 W/kg
10 gram SAR value : 0.167 W/kg
Area Scan Peak SAR : 0.554 W/kg
Zoom Scan Peak SAR : 0.910 W/kg

Exposure Assessment Measurement Uncertainty

Source of Uncertainty	Tolerance Value	Probability Distribution	Divisor	c_i^{-1} (1-g)	c_i^{-1} (10-g)	Standard Uncertainty (1-g) %	Standard Uncertainty (10-g) %
Measurement System							
Probe Calibration	3.5	normal	1	1	1	3.5	3.5
Axial Isotropy	3.7	rectangular	•3	$(1-cp)^{1/2}$	$(1-cp)^{1/2}$	1.5	1.5
Hemispherical Isotropy	10.9	rectangular	•3	•cp	•cp	4.4	4.4
Boundary Effect	1.0	rectangular	•3	1	1	0.6	0.6
Linearity	4.7	rectangular	•3	1	1	2.7	2.7
Detection Limit	1.0	rectangular	•3	1	1	0.6	0.6
Readout Electronics	1.0	normal	1	1	1	1.0	1.0
Response Time	0.8	rectangular	•3	1	1	0.5	0.5
Integration Time	1.7	rectangular	•3	1	1	1.0	1.0
RF Ambient Condition	3.0	rectangular	•3	1	1	1.7	1.7
Probe Positioner Mech.	0.4	rectangular	•3	1	1	0.2	0.2
Restriction							
Probe Positioning with respect to Phantom Shell	2.9	rectangular	•3	1	1	1.7	1.7
Extrapolation and Integration	3.7	rectangular	•3	1	1	2.1	2.1
Test Sample Positioning	4.0	normal	1	1	1	4.0	4.0
Device Holder Uncertainty	2.0	normal	1	1	1	2.0	2.0
Drift of Output Power	9.8	rectangular	•3	1	1	5.7	5.7
Phantom and Setup							
Phantom Uncertainty(shape & thickness tolerance)	3.4	rectangular	•3	1	1	2.0	2.0
Liquid Conductivity(target)	5.0	rectangular	•3	0.7	0.5	2.0	1.4
Liquid Conductivity(meas.)	138.6	normal	1	0.7	0.5	97.0	69.3
Liquid Permittivity(target)	5.0	rectangular	•3	0.6	0.5	1.7	1.4
Liquid Permittivity(meas.)	10.0	normal	1	0.6	0.5	6.0	5.0
Combined Uncertainty		RSS				97.8	70.3
Combined Uncertainty (coverage factor=2)		Normal (k=2)				195.6	140.6

SAR Test Report

Operator : Jay
Validation Date : 17-Jun-2005
Measurement Date : 17-Jun-2005
Starting Time : 17-Jun-2005 12:33:51 PM
End Time : 17-Jun-2005 12:47:03 PM
Scanning Time : 792 secs

Product Data

Device Name : Motion Computing
Serial No. : Intel Module Aux Antenna
Type : Other
Model : TS01
Frequency : 2450.00 MHz
Max. Transmit Pwr : 0.05 W
Drift Time : 0 min(s)
Length : 200 mm
Width : 170 mm
Depth : 23 mm
Antenna Type : Internal
Power Drift-Start : 0.100 W/kg
Power Drift-Finish: 0.096 W/kg
Power Drift (%) : -4.270

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. : 2450
Frequency : 2450 MHz
Last Calib. Date : 17-Jun-2005
Temperature : 21 °C
Ambient Temp. : 23 °C
Humidity : 51 RH%
Epsilon : 52.21 F/m
Sigma : 1.98 S/m
Density : 1000 kg/cu. m

Probe Data

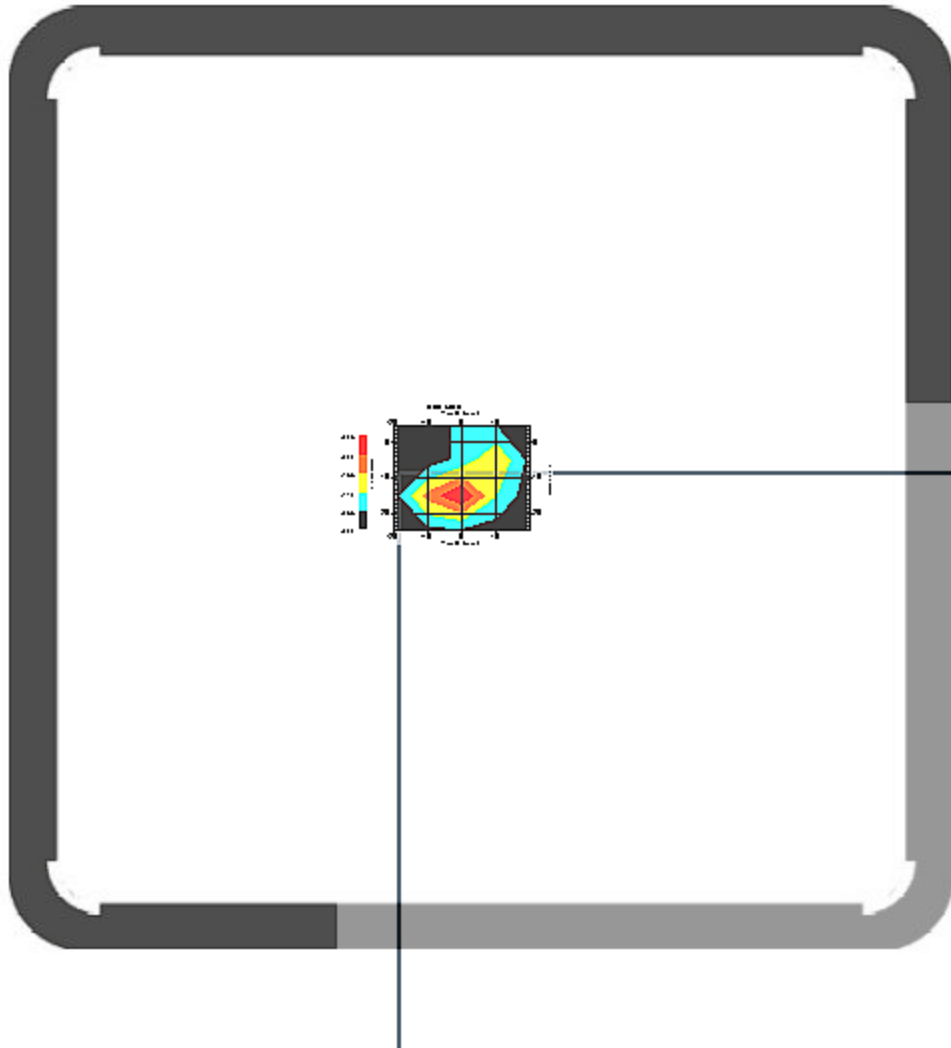
Name : Probe 215 - RFEL
Model : E020
Type : E-Field Triangle
Serial No. : 215
Last Calib. Date : 10-Jun-2005
Frequency : 2450 MHz
Duty Cycle Factor: 1
Conversion Factor: 3.6
Probe Sensitivity: 1.20 1.20 1.20 $\mu\text{V}/(\text{V}/\text{m})^2$
Compression Point: 95 mV
Offset : 1.56 mm

Measurement Data

Crest Factor : 1
Scan Type : Complete
Tissue Temp. : 21°C
Ambient Temp. : 23°C
Set-up Date : 17-Jun-2005
Set-up Time : 12:28:23 PM
Area Scan : 4x5x1 : Measurement x=10mm, y=10mm, z=4mm
Zoom Scan : 5x5x8 : Measurement x=8mm, y=8mm, z=4mm

Other Data

DUT Position : Touch
Separation : 0
Channel : Mid - 2437



1 gram SAR value : 0.232 W/kg
10 gram SAR value : 0.074 W/kg
Area Scan Peak SAR : 0.273 W/kg
Zoom Scan Peak SAR : 0.730 W/kg

Exposure Assessment Measurement Uncertainty

Source of Uncertainty	Tolerance Value	Probability Distribution	Divisor	c_i^{-1} (1-g)	c_i^{-1} (10-g)	Standard Uncertainty (1-g) %	Standard Uncertainty (10-g) %
Measurement System							
Probe Calibration	3.5	normal	1	1	1	3.5	3.5
Axial Isotropy	3.7	rectangular	•3	$(1-cp)^{1/2}$	$(1-cp)^{1/2}$	1.5	1.5
Hemispherical Isotropy	10.9	rectangular	•3	•cp	•cp	4.4	4.4
Boundary Effect	1.0	rectangular	•3	1	1	0.6	0.6
Linearity	4.7	rectangular	•3	1	1	2.7	2.7
Detection Limit	1.0	rectangular	•3	1	1	0.6	0.6
Readout Electronics	1.0	normal	1	1	1	1.0	1.0
Response Time	0.8	rectangular	•3	1	1	0.5	0.5
Integration Time	1.7	rectangular	•3	1	1	1.0	1.0
RF Ambient Condition	3.0	rectangular	•3	1	1	1.7	1.7
Probe Positioner Mech.	0.4	rectangular	•3	1	1	0.2	0.2
Restriction							
Probe Positioning with respect to Phantom Shell	2.9	rectangular	•3	1	1	1.7	1.7
Extrapolation and Integration	3.7	rectangular	•3	1	1	2.1	2.1
Test Sample Positioning	4.0	normal	1	1	1	4.0	4.0
Device Holder Uncertainty	2.0	normal	1	1	1	2.0	2.0
Drift of Output Power	40.3	rectangular	•3	1	1	23.2	23.2
Phantom and Setup							
Phantom Uncertainty(shape & thickness tolerance)	3.4	rectangular	•3	1	1	2.0	2.0
Liquid Conductivity(target)	5.0	rectangular	•3	0.7	0.5	2.0	1.4
Liquid Conductivity(meas.)	138.6	normal	1	0.7	0.5	97.0	69.3
Liquid Permittivity(target)	5.0	rectangular	•3	0.6	0.5	1.7	1.4
Liquid Permittivity(meas.)	10.0	normal	1	0.6	0.5	6.0	5.0
Combined Uncertainty		RSS				100.3	73.8
Combined Uncertainty (coverage factor=2)		Normal (k=2)				200.7	147.6

SAR Test Report

Operator : Jay
Validation Date : 17-Jun-2005
Measurement Date : 17-Jun-2005
Starting Time : 17-Jun-2005 01:41:45 PM
End Time : 17-Jun-2005 01:54:48 PM
Scanning Time : 783 secs

Product Data

Device Name : Motion Computing
Serial No. : Gemtech Module Aux Antenna
Type : Other
Model : TS01
Frequency : 2450.00 MHz
Max. Transmit Pwr : 0.05 W
Drift Time : 0 min(s)
Length : 200 mm
Width : 170 mm
Depth : 23 mm
Antenna Type : Internal
Power Drift-Start : 0.147 W/kg
Power Drift-Finish: 0.139 W/kg
Power Drift (%) : -5.442

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. : 2450
Frequency : 2450 MHz
Last Calib. Date : 17-Jun-2005
Temperature : 21 °C
Ambient Temp. : 23 °C
Humidity : 51 RH%
Epsilon : 52.21 F/m
Sigma : 1.98 S/m
Density : 1000 kg/cu. m

Probe Data

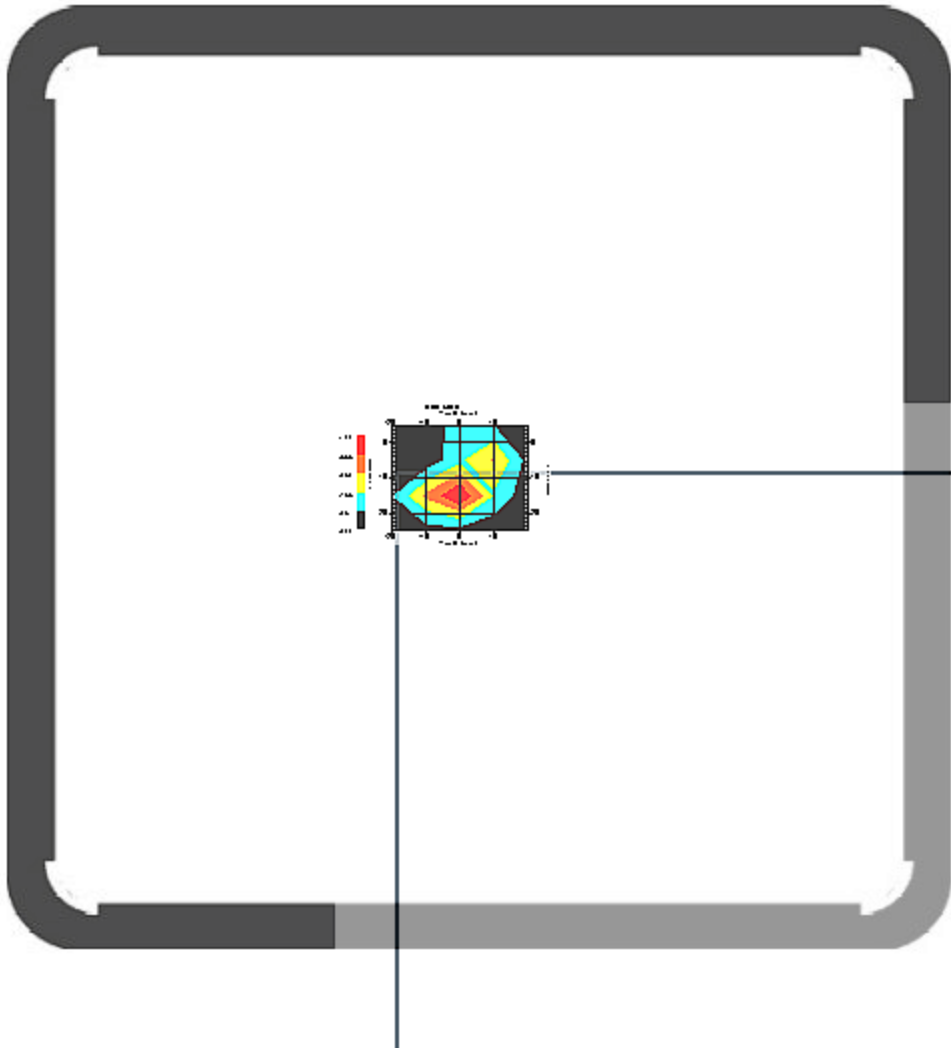
Name : Probe 215 - RFEL
Model : E020
Type : E-Field Triangle
Serial No. : 215
Last Calib. Date : 10-Jun-2005
Frequency : 2450 MHz
Duty Cycle Factor: 1
Conversion Factor: 3.6
Probe Sensitivity: 1.20 1.20 1.20 $\mu\text{V}/(\text{V}/\text{m})^2$
Compression Point: 95 mV
Offset : 1.56 mm

Measurement Data

Crest Factor : 1
Scan Type : Complete
Tissue Temp. : 21°C
Ambient Temp. : 24°C
Set-up Date : 17-Jun-2005
Set-up Time : 1:35:52 PM
Area Scan : 4x5x1 : Measurement x=10mm, y=10mm, z=4mm
Zoom Scan : 5x5x8 : Measurement x=8mm, y=8mm, z=4mm

Other Data

DUT Position : Touch
Separation : 0
Channel : Mid - 2437



1 gram SAR value : 0.239 W/kg
10 gram SAR value : 0.084 W/kg
Area Scan Peak SAR : 0.419 W/kg
Zoom Scan Peak SAR : 0.690 W/kg

Exposure Assessment Measurement Uncertainty

Source of Uncertainty	Tolerance Value	Probability Distribution	Divisor	c_i^{-1} (1-g)	c_i^{-1} (10-g)	Standard Uncertainty (1-g) %	Standard Uncertainty (10-g) %
Measurement System							
Probe Calibration	3.5	normal	1	1	1	3.5	3.5
Axial Isotropy	3.7	rectangular	•3	$(1-cp)^{1/2}$	$(1-cp)^{1/2}$	1.5	1.5
Hemispherical Isotropy	10.9	rectangular	•3	•cp	•cp	4.4	4.4
Boundary Effect	1.0	rectangular	•3	1	1	0.6	0.6
Linearity	4.7	rectangular	•3	1	1	2.7	2.7
Detection Limit	1.0	rectangular	•3	1	1	0.6	0.6
Readout Electronics	1.0	normal	1	1	1	1.0	1.0
Response Time	0.8	rectangular	•3	1	1	0.5	0.5
Integration Time	1.7	rectangular	•3	1	1	1.0	1.0
RF Ambient Condition	3.0	rectangular	•3	1	1	1.7	1.7
Probe Positioner Mech.	0.4	rectangular	•3	1	1	0.2	0.2
Restriction							
Probe Positioning with respect to Phantom Shell	2.9	rectangular	•3	1	1	1.7	1.7
Extrapolation and Integration	3.7	rectangular	•3	1	1	2.1	2.1
Test Sample Positioning	4.0	normal	1	1	1	4.0	4.0
Device Holder Uncertainty	2.0	normal	1	1	1	2.0	2.0
Drift of Output Power	39.2	rectangular	•3	1	1	22.7	22.7
Phantom and Setup							
Phantom Uncertainty(shape & thickness tolerance)	3.4	rectangular	•3	1	1	2.0	2.0
Liquid Conductivity(target)	5.0	rectangular	•3	0.7	0.5	2.0	1.4
Liquid Conductivity(meas.)	138.6	normal	1	0.7	0.5	97.0	69.3
Liquid Permittivity(target)	5.0	rectangular	•3	0.6	0.5	1.7	1.4
Liquid Permittivity(meas.)	10.0	normal	1	0.6	0.5	6.0	5.0
Combined Uncertainty		RSS				100.2	73.7
Combined Uncertainty (coverage factor=2)		Normal (k=2)				200.5	147.3

SAR Test Report

Operator : Jay
Validation Date : 17-Jun-2005
Measurement Date : 17-Jun-2005
Starting Time : 17-Jun-2005 02:30:21 PM
End Time : 17-Jun-2005 02:43:04 PM
Scanning Time : 763 secs

Product Data

Device Name : Motion Computing
Serial No. : Gemtech Module Main Antenna
Type : Other
Model : TS01
Frequency : 2450.00 MHz
Max. Transmit Pwr : 0.05 W
Drift Time : 0 min(s)
Length : 200 mm
Width : 170 mm
Depth : 23 mm
Antenna Type : Internal
Power Drift-Start : 0.267 W/kg
Power Drift-Finish: 0.278 W/kg
Power Drift (%) : 4.120

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. : 2450
Frequency : 2450 MHz
Last Calib. Date : 17-Jun-2005
Temperature : 21 °C
Ambient Temp. : 23 °C
Humidity : 51 RH%
Epsilon : 52.21 F/m
Sigma : 1.98 S/m
Density : 1000 kg/cu. m

Probe Data

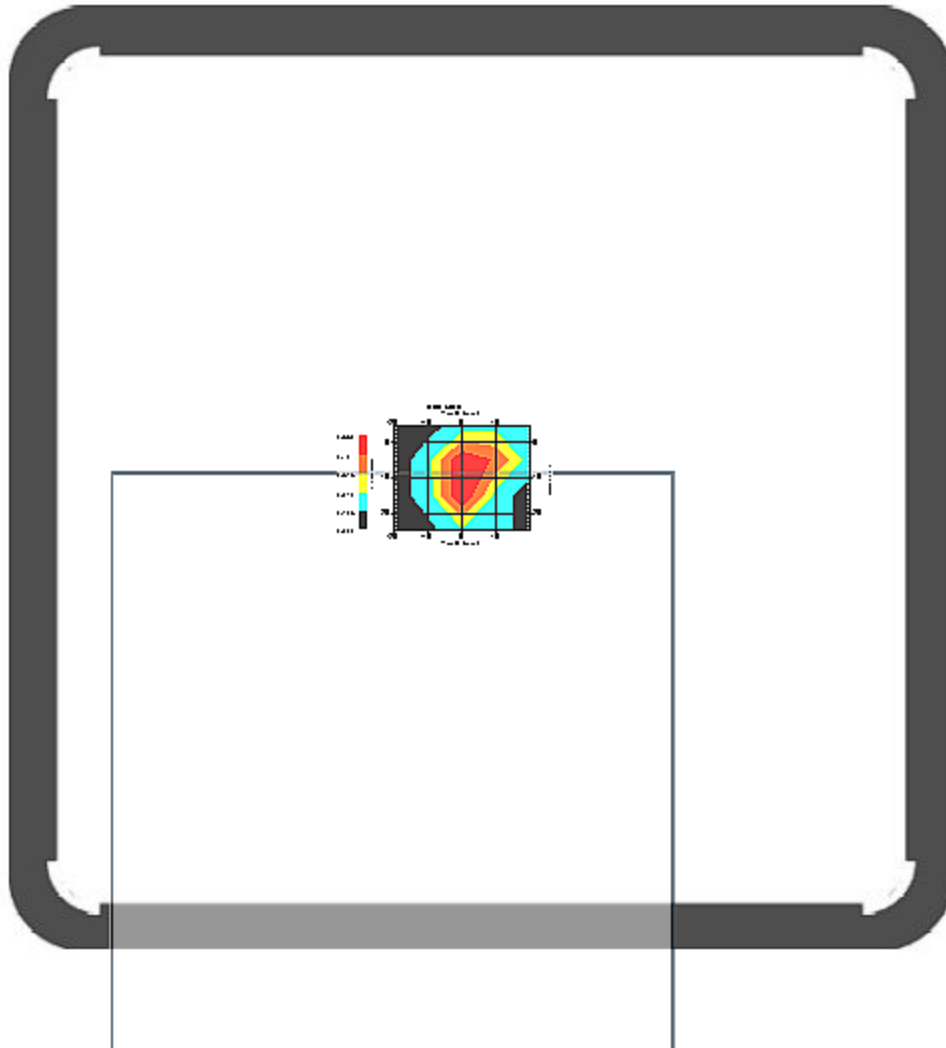
Name : Probe 215 - RFEL
Model : E020
Type : E-Field Triangle
Serial No. : 215
Last Calib. Date : 10-Jun-2005
Frequency : 2450 MHz
Duty Cycle Factor: 1
Conversion Factor: 3.6
Probe Sensitivity: 1.20 1.20 1.20 $\mu\text{V}/(\text{V}/\text{m})^2$
Compression Point: 95 mV
Offset : 1.56 mm

Measurement Data

Crest Factor : 1
Scan Type : Complete
Tissue Temp. : 21°C
Ambient Temp. : 24°C
Set-up Date : 17-Jun-2005
Set-up Time : 1:57:46 PM
Area Scan : 4x5x1 : Measurement x=10mm, y=10mm, z=4mm
Zoom Scan : 5x5x8 : Measurement x=8mm, y=8mm, z=4mm

Other Data

DUT Position : Touch
Separation : 0
Channel : Mid - 2437



1 gram SAR value : 0.417 W/kg
10 gram SAR value : 0.174 W/kg
Area Scan Peak SAR : 0.528 W/kg
Zoom Scan Peak SAR : 0.990 W/kg

Exposure Assessment Measurement Uncertainty

Source of Uncertainty	Tolerance Value	Probability Distribution	Divisor	c_i^{-1} (1-g)	c_i^{-1} (10-g)	Standard Uncertainty (1-g) %	Standard Uncertainty (10-g) %
Measurement System							
Probe Calibration	3.5	normal	1	1	1	3.5	3.5
Axial Isotropy	3.7	rectangular	•3	$(1-cp)^{1/2}$	$(1-cp)^{1/2}$	1.5	1.5
Hemispherical Isotropy	10.9	rectangular	•3	•cp	•cp	4.4	4.4
Boundary Effect	1.0	rectangular	•3	1	1	0.6	0.6
Linearity	4.7	rectangular	•3	1	1	2.7	2.7
Detection Limit	1.0	rectangular	•3	1	1	0.6	0.6
Readout Electronics	1.0	normal	1	1	1	1.0	1.0
Response Time	0.8	rectangular	•3	1	1	0.5	0.5
Integration Time	1.7	rectangular	•3	1	1	1.0	1.0
RF Ambient Condition	3.0	rectangular	•3	1	1	1.7	1.7
Probe Positioner Mech.	0.4	rectangular	•3	1	1	0.2	0.2
Restriction							
Probe Positioning with respect to Phantom Shell	2.9	rectangular	•3	1	1	1.7	1.7
Extrapolation and Integration	3.7	rectangular	•3	1	1	2.1	2.1
Test Sample Positioning	4.0	normal	1	1	1	4.0	4.0
Device Holder Uncertainty	2.0	normal	1	1	1	2.0	2.0
Drift of Output Power	11.6	rectangular	•3	1	1	6.7	6.7
Phantom and Setup							
Phantom Uncertainty(shape & thickness tolerance)	3.4	rectangular	•3	1	1	2.0	2.0
Liquid Conductivity(target)	5.0	rectangular	•3	0.7	0.5	2.0	1.4
Liquid Conductivity(meas.)	138.6	normal	1	0.7	0.5	97.0	69.3
Liquid Permittivity(target)	5.0	rectangular	•3	0.6	0.5	1.7	1.4
Liquid Permittivity(meas.)	10.0	normal	1	0.6	0.5	6.0	5.0
Combined Uncertainty		RSS				97.9	70.4
Combined Uncertainty (coverage factor=2)		Normal (k=2)				195.7	140.8

SAR-Z Axis
at Hotspot x:7.20 y:-0.50

