

SAR Test Report (11b mode bottom low)

Report Date : 16-Nov-2010
 By Operator : 123
 Measurement Date : 16-Nov-2010
 Starting Time : 16-Nov-2010 09:19:34 AM
 End Time : 16-Nov-2010 09:34:42 AM
 Scanning Time : 908 secs

Product Data

Device Name : Computer
 Serial No. : 123
 Type : Std Form Cell Phone
 Model : 123
 Frequency : 2400.00 MHz
 Max. Transmit Pwr : 1 W
 Drift Time : 0 min(s)
 Length : 255 mm
 Width : 160 mm
 Depth : 10 mm
 Antenna Type : Internal
 Orientation : Touch
 Power Drift-Start : 0.392 W/kg
 Power Drift-Finish: 0.546 W/kg
 Power Drift (%) : 3.279
 Picture :

Phantom Data

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

Tissue Data

Type : BODY
 Serial No. : IAC Tissue - 2450
 Frequency : 2450.00 MHz
 Last Calib. Date : 15-May-2008
 Temperature : 20.00 °C
 Ambient Temp. : 20.00 °C
 Humidity : 50.00 RH%
 Epsilon : 48.01 F/m
 Sigma : 1.89 S/m
 Density : 1000.00 kg/cu. m

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Probe Data

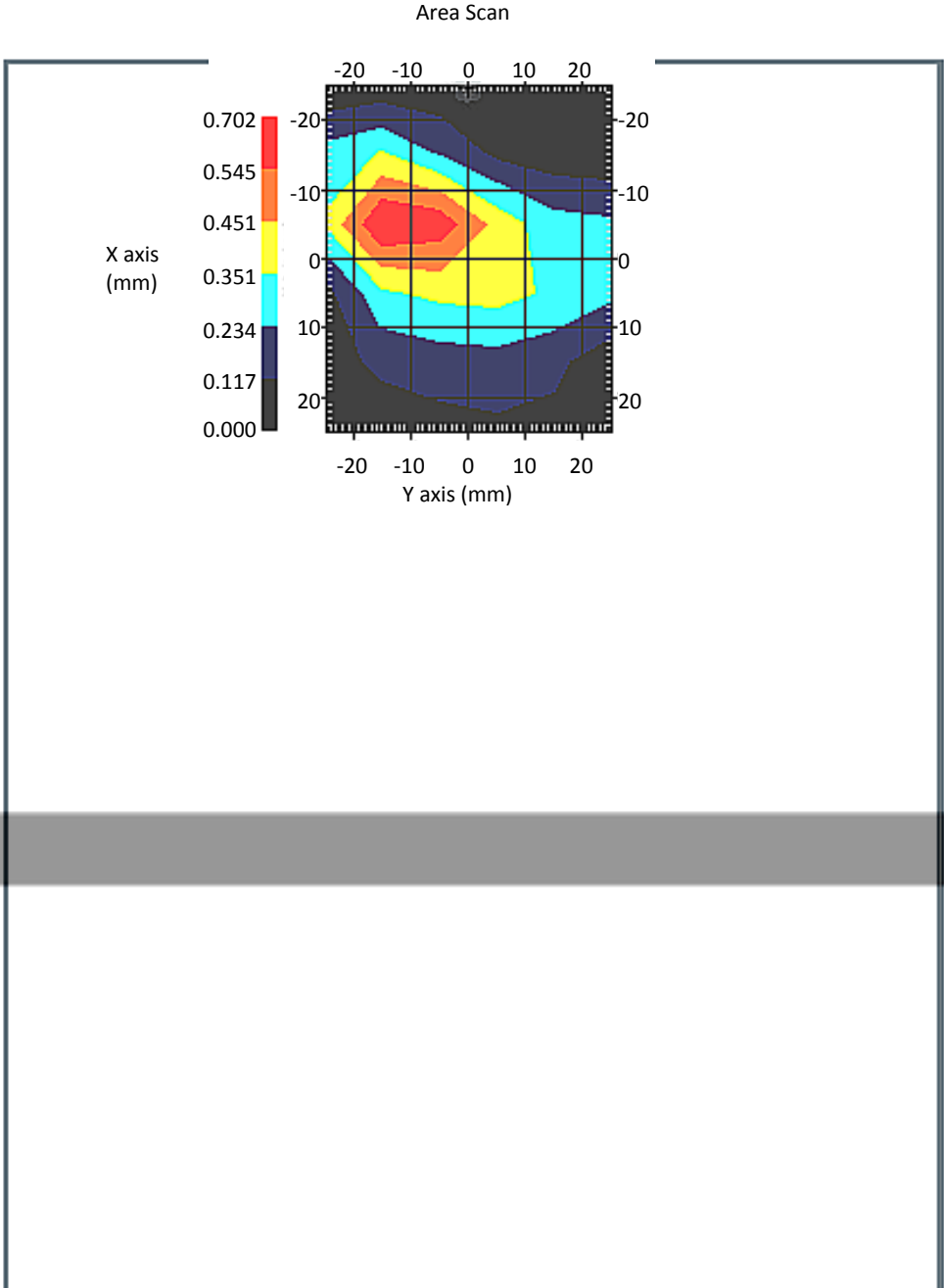
Name : IAC-273
Model : E020
Type : E-Field Triangle
Serial No. : 273
Last Calib. Date : 13-Sep-2010
Frequency : 2450.00 MHz
Duty Cycle Factor: 1
Conversion Factor: 3.6
Probe Sensitivity: 1.20 1.20 1.20 $\mu\text{V}/(\text{V}/\text{m})^2$
Compression Point: 95.00 mV
Offset : 1.56 mm

Measurement Data

Crest Factor : 1
Scan Type : Complete
Tissue Temp. : 20.00 °C
Ambient Temp. : 20.00 °C
Set-up Date : 16-Nov-2010
Set-up Time : 9:19:30 AM
Area Scan : 6x6x1 : Measurement x=10mm, y=10mm, z=4mm
Zoom Scan : 5x5x8 : Measurement x=8mm, y=8mm, z=4mm

Other Data

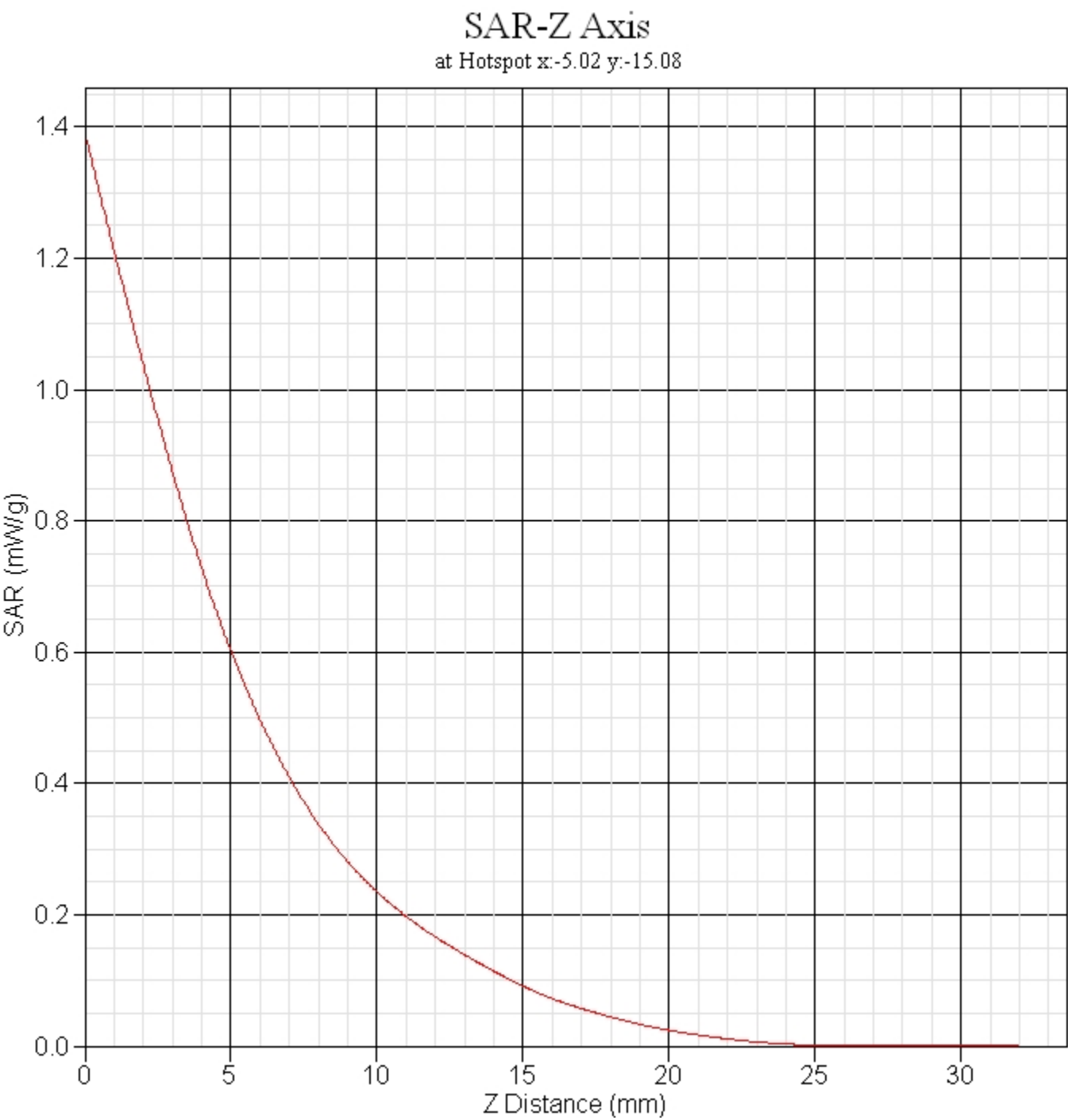
DUT Position : Touch
Separation : 0
Channel : Low



1 gram SAR value : 0.602 W/kg
10 gram SAR value : 0.246 W/kg
Area Scan Peak SAR : 0.700 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	$\sqrt{3}$	$(1-cp)^{1/2}$	$(1-cp)^{1/2}$	1.5	1.5
Hemispherical Isotropy	10.9	rectangular	$\sqrt{3}$	\sqrt{cp}	\sqrt{cp}	4.4	4.4
Boundary Effect	1.0	rectangular	$\sqrt{3}$	1	1	0.6	0.6
Linearity	4.7	rectangular	$\sqrt{3}$	1	1	2.7	2.7
Detection Limit	1.0	rectangular	$\sqrt{3}$	1	1	0.6	0.6
Readout Electronics	1.0	normal	1	1	1	1.0	1.0
Response Time	0.8	rectangular	$\sqrt{3}$	1	1	0.5	0.5
Integration Time	1.7	rectangular	$\sqrt{3}$	1	1	1.0	1.0
RF Ambient Condition	3.0	rectangular	$\sqrt{3}$	1	1	1.7	1.7
Probe Positioner Mech.	0.4	rectangular	$\sqrt{3}$	1	1	0.2	0.2
Restriction							
Probe Positioning with respect to Phantom Shell	2.9	rectangular	$\sqrt{3}$	1	1	1.7	1.7
Extrapolation and Integration	3.7	rectangular	$\sqrt{3}$	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	39.3	rectangular	$\sqrt{3}$	1	1	22.7	22.7
Phantom and Setup							
Phantom Uncertainty(shape & thickness tolerance)	3.4	rectangular	$\sqrt{3}$	1	1	2.0	2.0
Liquid Conductivity(target)	5.0	rectangular	$\sqrt{3}$	0.7	0.5	2.0	1.4
Liquid Conductivity(meas.)	3.1	normal	1	0.7	0.5	2.2	1.5
Liquid Permittivity(target)	5.0	rectangular	$\sqrt{3}$	0.6	0.5	1.7	1.4
Liquid Permittivity(meas.)	8.9	normal	1	0.6	0.5	5.3	4.4
Combined Uncertainty		RSS				25.2	24.9
Combined Uncertainty (coverage factor=2)		Normal (k=2)				50.3	49.8



SAR Test Report (11b mode bottom mid)

Report Date : 16-Nov-2010
By Operator : 123
Measurement Date : 16-Nov-2010
Starting Time : 16-Nov-2010 09:43:25 AM
End Time : 16-Nov-2010 09:59:06 AM
Scanning Time : 941 secs

Product Data

Device Name : Computer
Serial No. : 123
Type : Std Form Cell Phone
Model : 123
Frequency : 2400.00 MHz
Max. Transmit Pwr : 1 W
Drift Time : 0 min(s)
Length : 255 mm
Width : 160 mm
Depth : 10 mm
Antenna Type : Internal
Orientation : Touch
Power Drift-Start : 0.596 W/kg
Power Drift-Finish: 0.634 W/kg
Power Drift (%) : 6.378
Picture :

Phantom Data

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

Tissue Data

Type : BODY
Serial No. : IAC Tissue - 2450
Frequency : 2450.00 MHz
Last Calib. Date : 15-May-2008
Temperature : 20.00 °C
Ambient Temp. : 20.00 °C
Humidity : 50.00 RH%
Epsilon : 48.01 F/m
Sigma : 1.89 S/m
Density : 1000.00 kg/cu. m

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Probe Data

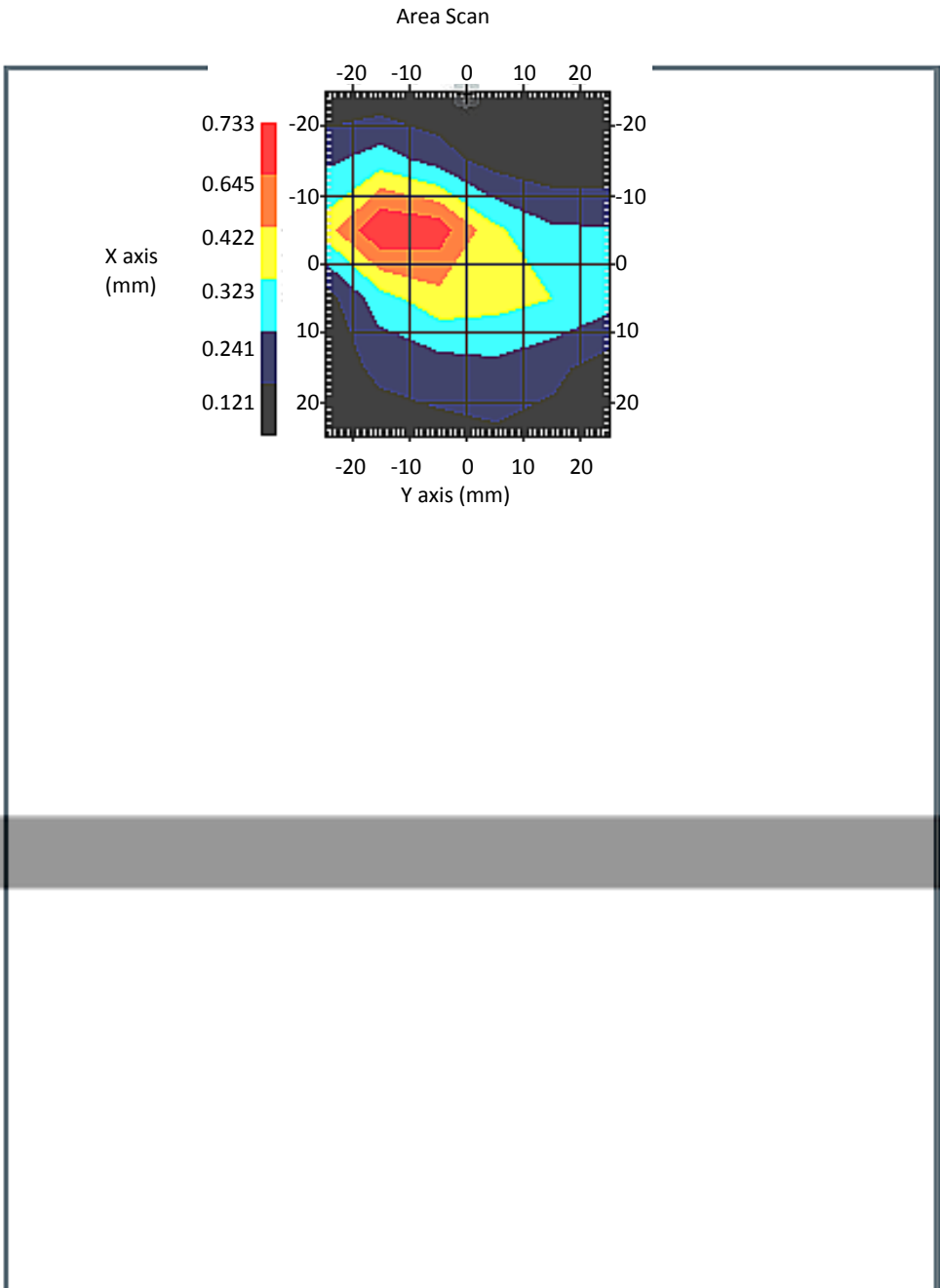
Name : IAC-273
Model : E020
Type : E-Field Triangle
Serial No. : 273
Last Calib. Date : 13-Sep-2010
Frequency : 2450.00 MHz
Duty Cycle Factor: 1
Conversion Factor: 3.6
Probe Sensitivity: 1.20 1.20 1.20 $\mu\text{V}/(\text{V}/\text{m})^2$
Compression Point: 95.00 mV
Offset : 1.56 mm

Measurement Data

Crest Factor : 1
Scan Type : Complete
Tissue Temp. : 20.00 °C
Ambient Temp. : 20.00 °C
Set-up Date : 16-Nov-2010
Set-up Time : 9:42:52 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 : Touch
Separation : 0
Channel : Mid

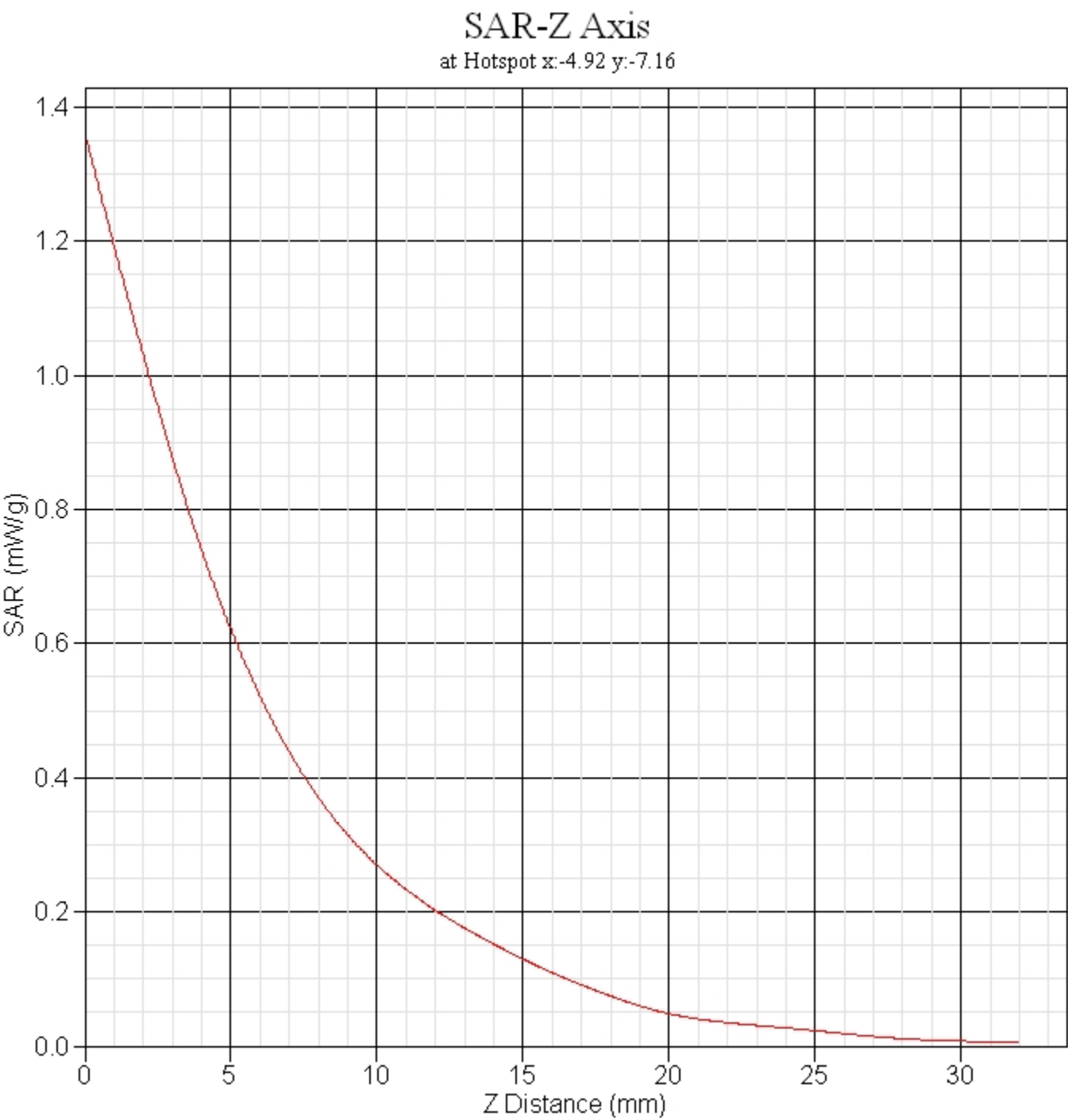


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1 gram SAR value : 0.609 W/kg
10 gram SAR value : 0.249 W/kg
Area Scan Peak SAR : 0.737 W/kg
Zoom Scan Peak SAR : 1.361 W/kg

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	$\sqrt{3}$	$(1-cp)^{1/2}$	$(1-cp)^{1/2}$	1.5	1.5
Hemispherical Isotropy	10.9	rectangular	$\sqrt{3}$	\sqrt{cp}	\sqrt{cp}	4.4	4.4
Boundary Effect	1.0	rectangular	$\sqrt{3}$	1	1	0.6	0.6
Linearity	4.7	rectangular	$\sqrt{3}$	1	1	2.7	2.7
Detection Limit	1.0	rectangular	$\sqrt{3}$	1	1	0.6	0.6
Readout Electronics	1.0	normal	1	1	1	1.0	1.0
Response Time	0.8	rectangular	$\sqrt{3}$	1	1	0.5	0.5
Integration Time	1.7	rectangular	$\sqrt{3}$	1	1	1.0	1.0
RF Ambient Condition	3.0	rectangular	$\sqrt{3}$	1	1	1.7	1.7
Probe Positioner Mech.	0.4	rectangular	$\sqrt{3}$	1	1	0.2	0.2
Restriction							
Probe Positioning with respect to Phantom Shell	2.9	rectangular	$\sqrt{3}$	1	1	1.7	1.7
Extrapolation and Integration	3.7	rectangular	$\sqrt{3}$	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	6.4	rectangular	$\sqrt{3}$	1	1	3.7	3.7
Phantom and Setup							
Phantom Uncertainty(shape & thickness tolerance)	3.4	rectangular	$\sqrt{3}$	1	1	2.0	2.0
Liquid Conductivity(target)	5.0	rectangular	$\sqrt{3}$	0.7	0.5	2.0	1.4
Liquid Conductivity(meas.)	3.1	normal	1	0.7	0.5	2.2	1.5
Liquid Permittivity(target)	5.0	rectangular	$\sqrt{3}$	0.6	0.5	1.7	1.4
Liquid Permittivity(meas.)	8.9	normal	1	0.6	0.5	5.3	4.4
Combined Uncertainty		RSS				11.5	10.8
Combined Uncertainty (coverage factor=2)		Normal (k=2)				23.0	21.7



SAR Test Report (11b mode bottom high)

Report Date : 16-Nov-2010
By Operator : 123
Measurement Date : 16-Nov-2010
Starting Time : 16-Nov-2010 10:20:43 AM
End Time : 16-Nov-2010 10:36:03 AM
Scanning Time : 920 secs

Product Data

Device Name : Computer
Serial No. : 123
Type : Std Form Cell Phone
Model : 123
Frequency : 2400.00 MHz
Max. Transmit Pwr : 1 W
Drift Time : 0 min(s)
Length : 255 mm
Width : 160 mm
Depth : 10 mm
Antenna Type : Internal
Orientation : Touch
Power Drift-Start : 0.717 W/kg
Power Drift-Finish: 0.741 W/kg
Power Drift (%) : 3.328
Picture :

Phantom Data

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

Tissue Data

Type : BODY
Serial No. : IAC Tissue - 2450
Frequency : 2450.00 MHz
Last Calib. Date : 15-May-2008
Temperature : 20.00 °C
Ambient Temp. : 20.00 °C
Humidity : 50.00 RH%
Epsilon : 48.01 F/m
Sigma : 1.89 S/m
Density : 1000.00 kg/cu. m

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Probe Data

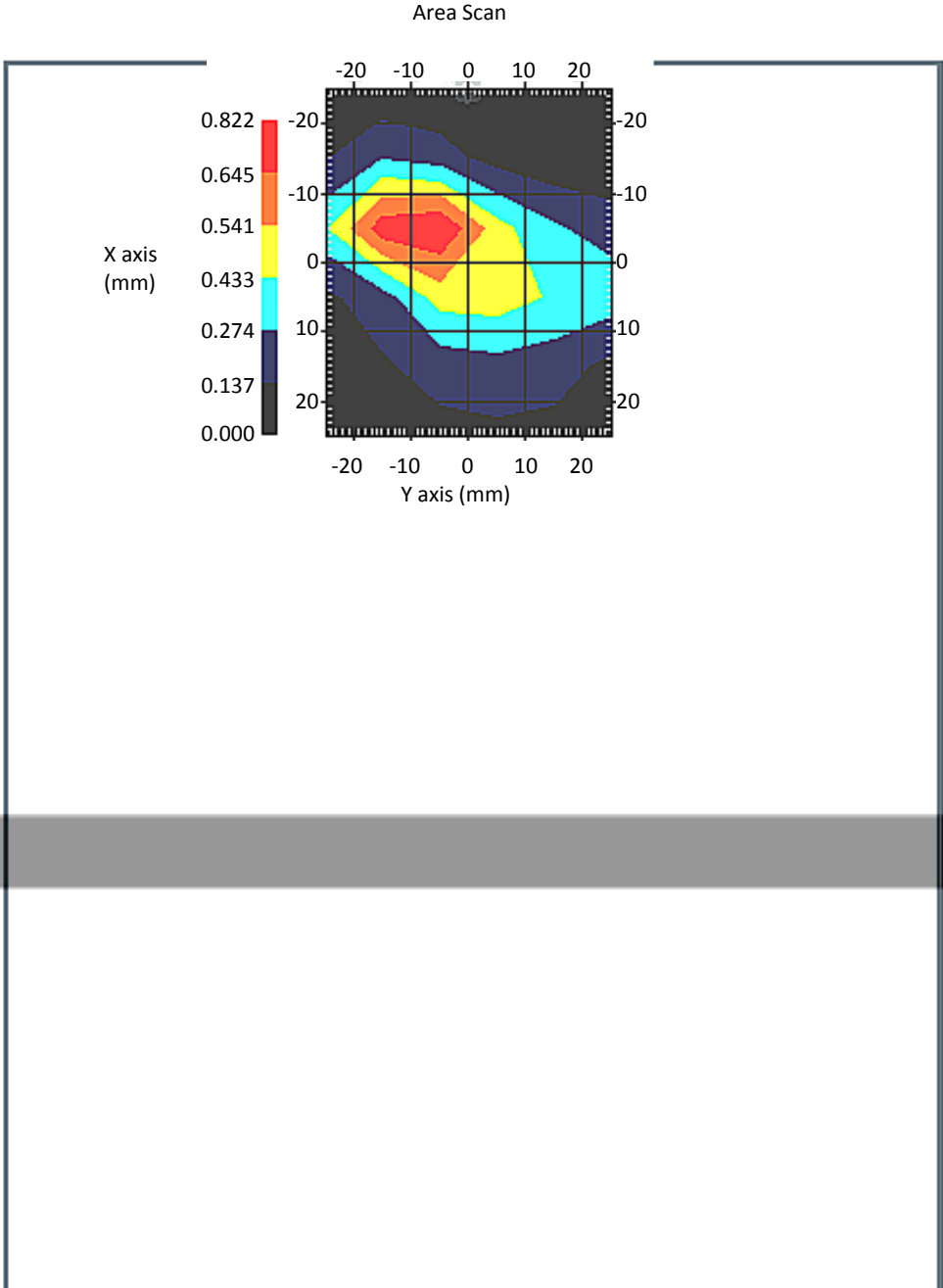
Name : IAC-273
Model : E020
Type : E-Field Triangle
Serial No. : 273
Last Calib. Date : 13-Sep-2010
Frequency : 2450.00 MHz
Duty Cycle Factor: 1
Conversion Factor: 3.6
Probe Sensitivity: 1.20 1.20 1.20 $\mu\text{V}/(\text{V}/\text{m})^2$
Compression Point: 95.00 mV
Offset : 1.56 mm

Measurement Data

Crest Factor : 1
Scan Type : Complete
Tissue Temp. : 20.00 °C
Ambient Temp. : 20.00 °C
Set-up Date : 16-Nov-2010
Set-up Time : 10:20:39 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 : Touch
Separation : 0
Channel : High

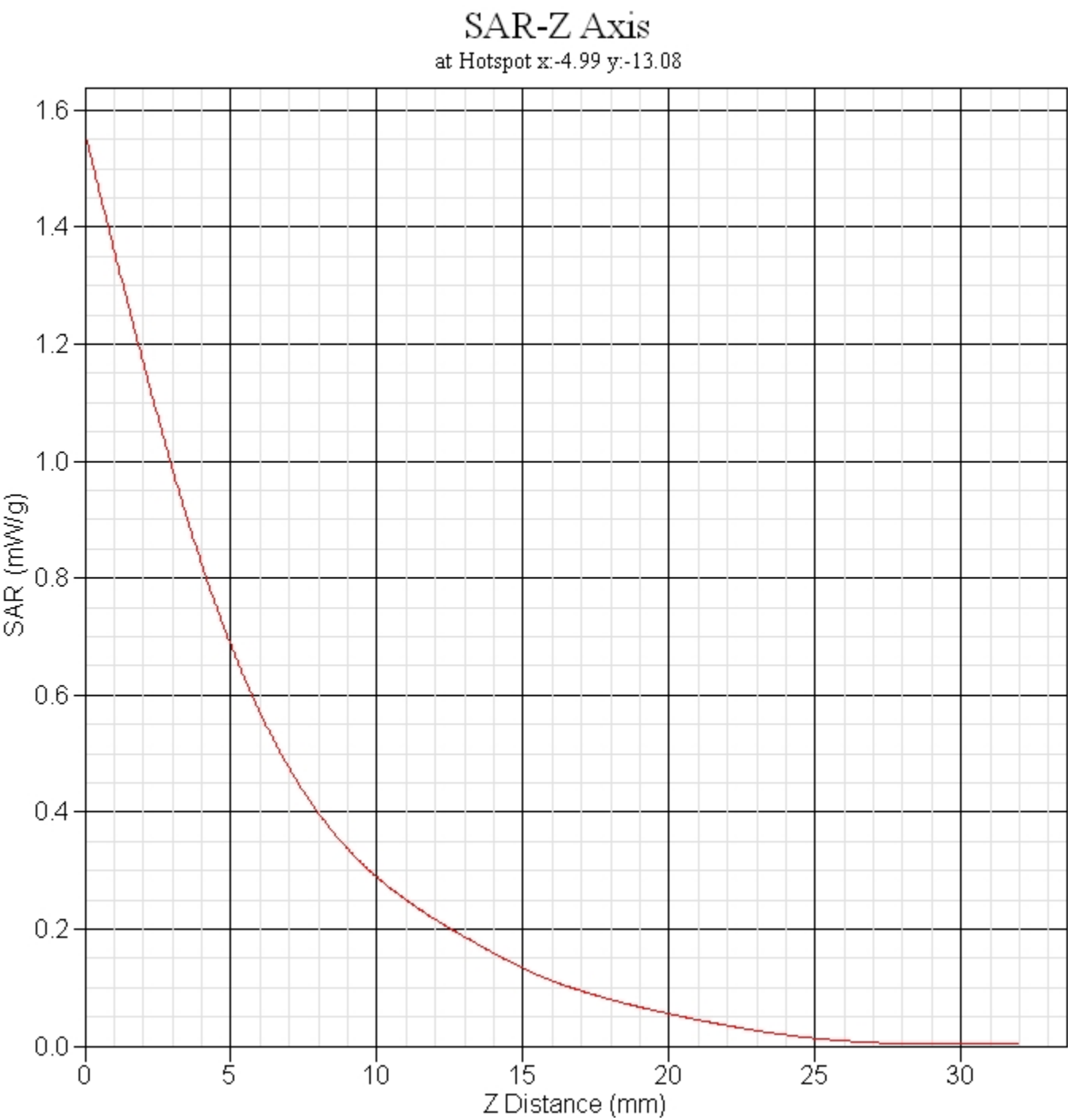


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1 gram SAR value : 0.653 W/kg
10 gram SAR value : 0.255 W/kg
Area Scan Peak SAR : 0.819 W/kg
Zoom Scan Peak SAR : 1.561 W/kg

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	$\sqrt{3}$	$(1-cp)^{1/2}$	$(1-cp)^{1/2}$	1.5	1.5
Hemispherical Isotropy	10.9	rectangular	$\sqrt{3}$	\sqrt{cp}	\sqrt{cp}	4.4	4.4
Boundary Effect	1.0	rectangular	$\sqrt{3}$	1	1	0.6	0.6
Linearity	4.7	rectangular	$\sqrt{3}$	1	1	2.7	2.7
Detection Limit	1.0	rectangular	$\sqrt{3}$	1	1	0.6	0.6
Readout Electronics	1.0	normal	1	1	1	1.0	1.0
Response Time	0.8	rectangular	$\sqrt{3}$	1	1	0.5	0.5
Integration Time	1.7	rectangular	$\sqrt{3}$	1	1	1.0	1.0
RF Ambient Condition	3.0	rectangular	$\sqrt{3}$	1	1	1.7	1.7
Probe Positioner Mech.	0.4	rectangular	$\sqrt{3}$	1	1	0.2	0.2
Restriction							
Probe Positioning with respect to Phantom Shell	2.9	rectangular	$\sqrt{3}$	1	1	1.7	1.7
Extrapolation and Integration	3.7	rectangular	$\sqrt{3}$	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	3.3	rectangular	$\sqrt{3}$	1	1	1.9	1.9
Phantom and Setup							
Phantom Uncertainty(shape & thickness tolerance)	3.4	rectangular	$\sqrt{3}$	1	1	2.0	2.0
Liquid Conductivity(target)	5.0	rectangular	$\sqrt{3}$	0.7	0.5	2.0	1.4
Liquid Conductivity(meas.)	3.1	normal	1	0.7	0.5	2.2	1.5
Liquid Permittivity(target)	5.0	rectangular	$\sqrt{3}$	0.6	0.5	1.7	1.4
Liquid Permittivity(meas.)	8.9	normal	1	0.6	0.5	5.3	4.4
Combined Uncertainty		RSS				11.0	10.4
Combined Uncertainty (coverage factor=2)		Normal (k=2)				22.1	20.7



SAR Test Report (11b mode tip edge mid)

Report Date : 16-Nov-2010
By Operator : 123
Measurement Date : 16-Nov-2010
Starting Time : 16-Nov-2010 04:59:51 PM
End Time : 16-Nov-2010 05:15:21 PM
Scanning Time : 930 secs

Product Data

Device Name : Computer
Serial No. : 123
Type : Std Form Cell Phone
Model : 123
Frequency : 2400.00 MHz
Max. Transmit Pwr : 1 W
Drift Time : 0 min(s)
Length : 255 mm
Width : 160 mm
Depth : 10 mm
Antenna Type : Internal
Orientation : Touch
Power Drift-Start : 0.499 W/kg
Power Drift-Finish: 0.495 W/kg
Power Drift (%) : -0.803
Picture :

Phantom Data

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

Tissue Data

Type : BODY
Serial No. : IAC Tissue - 2450
Frequency : 2450.00 MHz
Last Calib. Date : 15-May-2008
Temperature : 20.00 °C
Ambient Temp. : 20.00 °C
Humidity : 50.00 RH%
Epsilon : 48.01 F/m
Sigma : 1.89 S/m
Density : 1000.00 kg/cu. m

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Probe Data

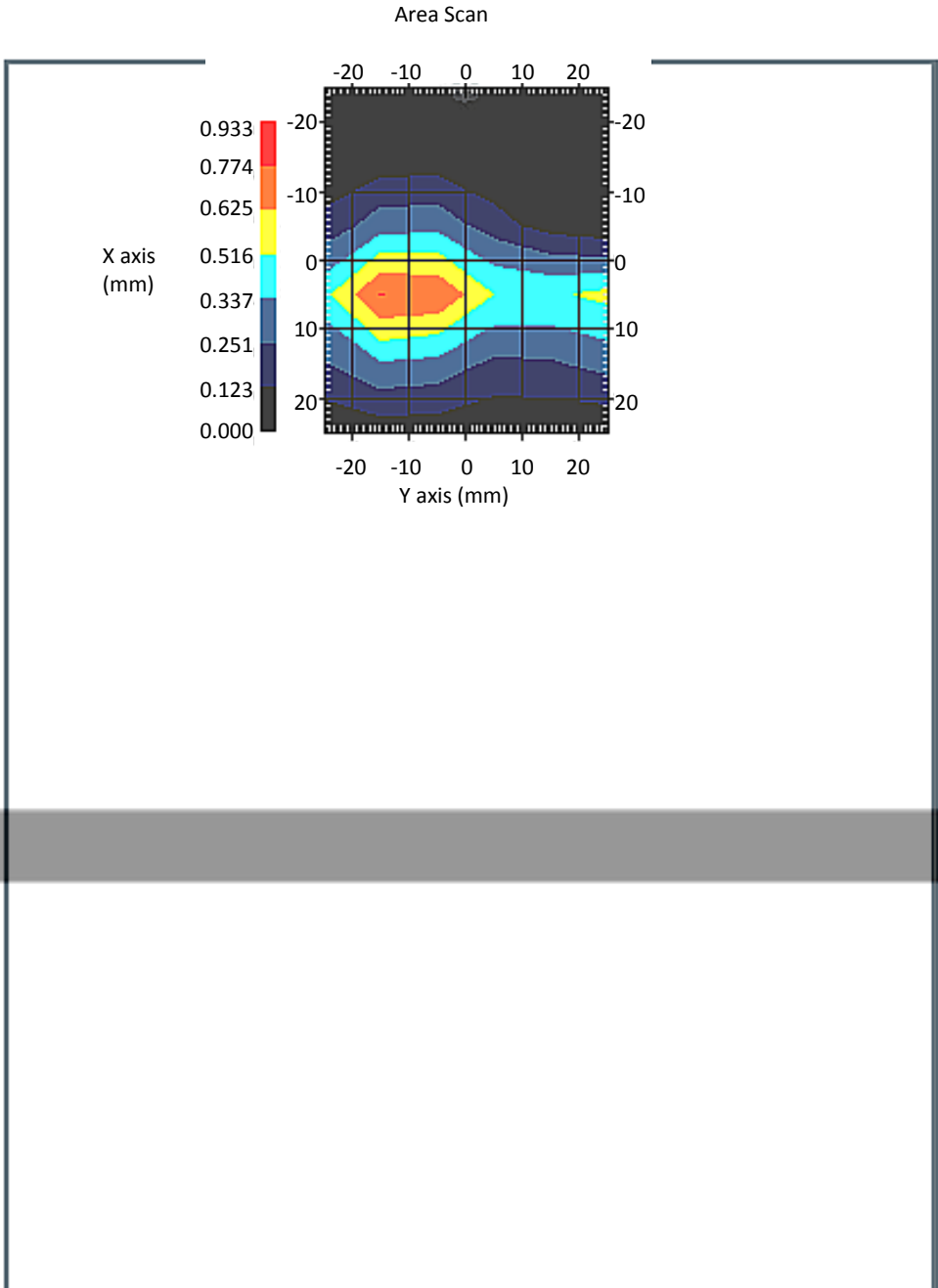
Name : IAC-273
Model : E020
Type : E-Field Triangle
Serial No. : 273
Last Calib. Date : 13-Sep-2010
Frequency : 2450.00 MHz
Duty Cycle Factor: 1
Conversion Factor: 3.6
Probe Sensitivity: 1.20 1.20 1.20 $\mu\text{V}/(\text{V}/\text{m})^2$
Compression Point: 95.00 mV
Offset : 1.56 mm

Measurement Data

Crest Factor : 1
Scan Type : Complete
Tissue Temp. : 20.00 °C
Ambient Temp. : 20.00 °C
Set-up Date : 16-Nov-2010
Set-up Time : 4:59:47 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 : Touch
Separation : 0
Channel : Low

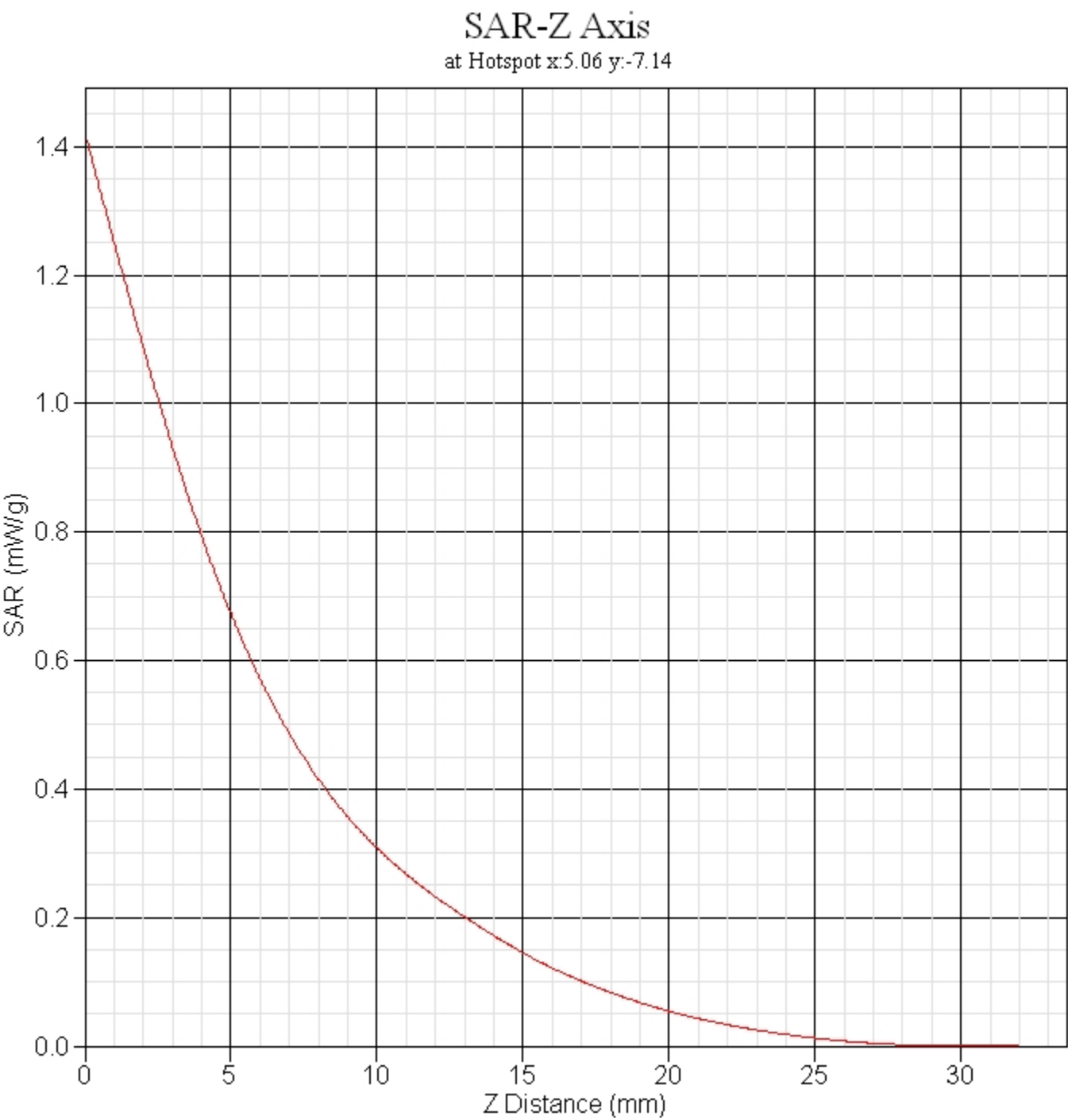


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1 gram SAR value : 0.661 W/kg
10 gram SAR value : 0.274 W/kg
Area Scan Peak SAR : 0.775 W/kg
Zoom Scan Peak SAR : 1.421 W/kg

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	$\sqrt{3}$	$(1-cp)^{1/2}$	$(1-cp)^{1/2}$	1.5	1.5
Hemispherical Isotropy	10.9	rectangular	$\sqrt{3}$	\sqrt{cp}	\sqrt{cp}	4.4	4.4
Boundary Effect	1.0	rectangular	$\sqrt{3}$	1	1	0.6	0.6
Linearity	4.7	rectangular	$\sqrt{3}$	1	1	2.7	2.7
Detection Limit	1.0	rectangular	$\sqrt{3}$	1	1	0.6	0.6
Readout Electronics	1.0	normal	1	1	1	1.0	1.0
Response Time	0.8	rectangular	$\sqrt{3}$	1	1	0.5	0.5
Integration Time	1.7	rectangular	$\sqrt{3}$	1	1	1.0	1.0
RF Ambient Condition	3.0	rectangular	$\sqrt{3}$	1	1	1.7	1.7
Probe Positioner Mech.	0.4	rectangular	$\sqrt{3}$	1	1	0.2	0.2
Restriction							
Probe Positioning with respect to Phantom Shell	2.9	rectangular	$\sqrt{3}$	1	1	1.7	1.7
Extrapolation and Integration	3.7	rectangular	$\sqrt{3}$	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	0.8	rectangular	$\sqrt{3}$	1	1	0.5	0.5
Phantom and Setup							
Phantom Uncertainty(shape & thickness tolerance)	3.4	rectangular	$\sqrt{3}$	1	1	2.0	2.0
Liquid Conductivity(target)	5.0	rectangular	$\sqrt{3}$	0.7	0.5	2.0	1.4
Liquid Conductivity(meas.)	3.1	normal	1	0.7	0.5	2.2	1.5
Liquid Permittivity(target)	5.0	rectangular	$\sqrt{3}$	0.6	0.5	1.7	1.4
Liquid Permittivity(meas.)	8.9	normal	1	0.6	0.5	5.3	4.4
Combined Uncertainty		RSS				10.9	10.2
Combined Uncertainty (coverage factor=2)		Normal (k=2)				21.8	20.4



SAR Test Report (11b mode tip edge mid)

Report Date : 16-Nov-2010
By Operator : 123
Measurement Date : 16-Nov-2010
Starting Time : 16-Nov-2010 05:19:47 PM
End Time : 16-Nov-2010 05:35:24 PM
Scanning Time : 937 secs

Product Data

Device Name : Computer
Serial No. : 123
Type : Std Form Cell Phone
Model : 123
Frequency : 2400.00 MHz
Max. Transmit Pwr : 1 W
Drift Time : 0 min(s)
Length : 255 mm
Width : 160 mm
Depth : 10 mm
Antenna Type : Internal
Orientation : Touch
Power Drift-Start : 0.543 W/kg
Power Drift-Finish: 0.544 W/kg
Power Drift (%) : 0.059
Picture :

Phantom Data

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

Tissue Data

Type : BODY
Serial No. : IAC Tissue - 2450
Frequency : 2450.00 MHz
Last Calib. Date : 15-May-2008
Temperature : 20.00 °C
Ambient Temp. : 20.00 °C
Humidity : 50.00 RH%
Epsilon : 48.01 F/m
Sigma : 1.89 S/m
Density : 1000.00 kg/cu. m

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Probe Data

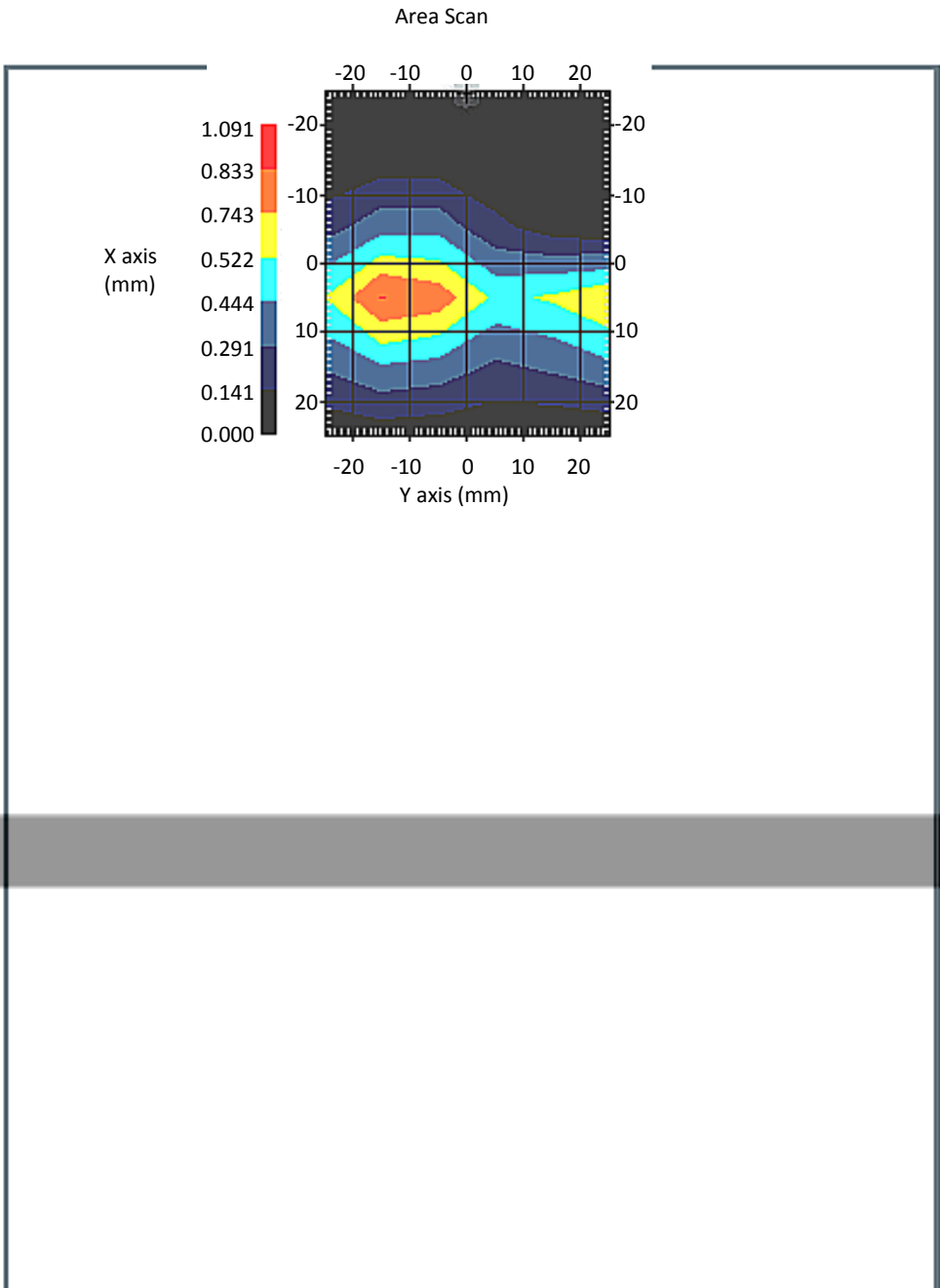
Name : IAC-273
Model : E020
Type : E-Field Triangle
Serial No. : 273
Last Calib. Date : 13-Sep-2010
Frequency : 2450.00 MHz
Duty Cycle Factor: 1
Conversion Factor: 3.6
Probe Sensitivity: 1.20 1.20 1.20 $\mu\text{V}/(\text{V}/\text{m})^2$
Compression Point: 95.00 mV
Offset : 1.56 mm

Measurement Data

Crest Factor : 1
Scan Type : Complete
Tissue Temp. : 20.00 °C
Ambient Temp. : 20.00 °C
Set-up Date : 16-Nov-2010
Set-up Time : 5:19:43 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 : Touch
Separation : 0
Channel : Mid

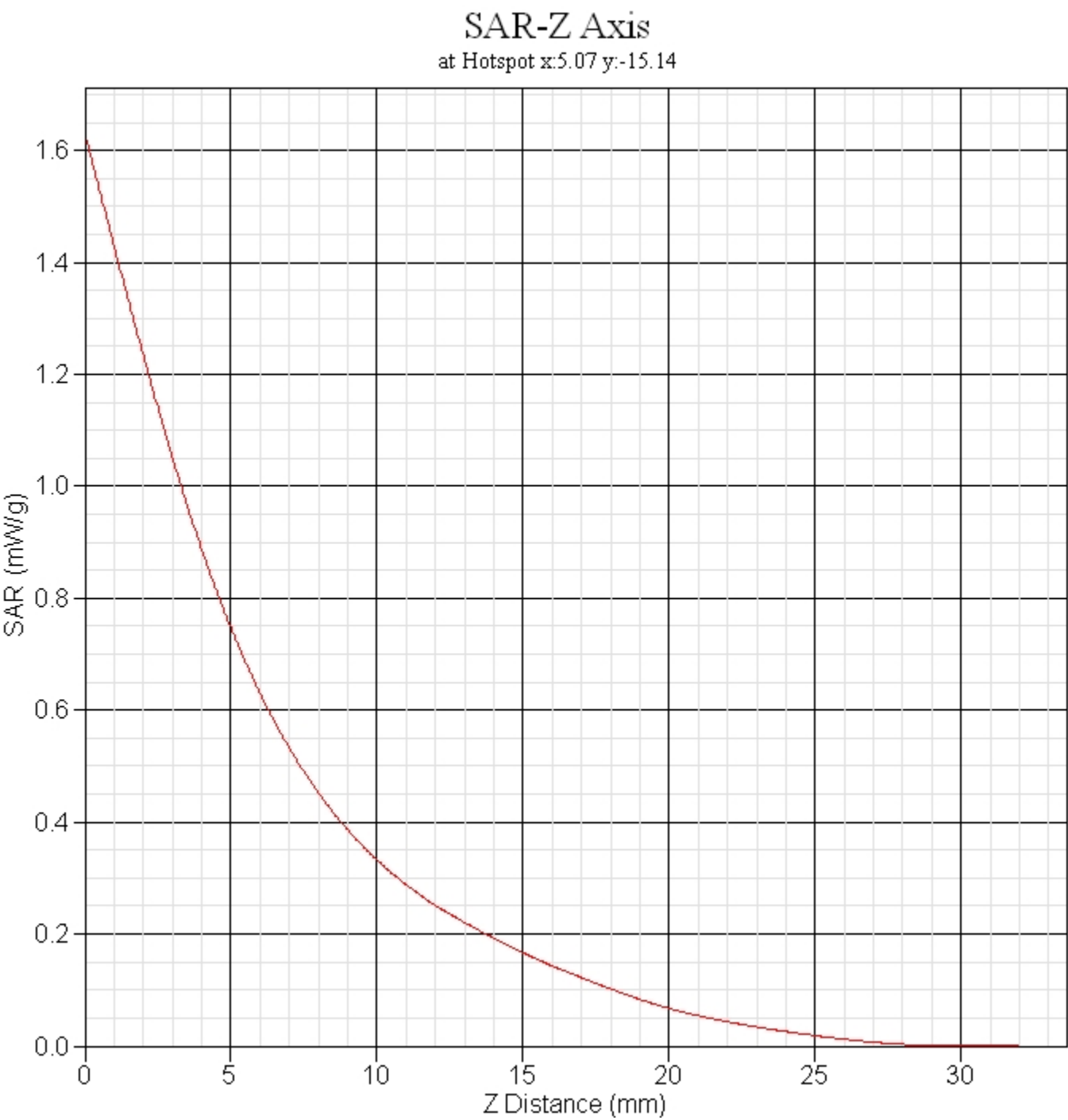


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1 gram SAR value : 0.749 W/kg
10 gram SAR value : 0.322 W/kg
Area Scan Peak SAR : 0.891 W/kg
Zoom Scan Peak SAR : 1.631 W/kg

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	$\sqrt{3}$	$(1-cp)^{1/2}$	$(1-cp)^{1/2}$	1.5	1.5
Hemispherical Isotropy	10.9	rectangular	$\sqrt{3}$	\sqrt{cp}	\sqrt{cp}	4.4	4.4
Boundary Effect	1.0	rectangular	$\sqrt{3}$	1	1	0.6	0.6
Linearity	4.7	rectangular	$\sqrt{3}$	1	1	2.7	2.7
Detection Limit	1.0	rectangular	$\sqrt{3}$	1	1	0.6	0.6
Readout Electronics	1.0	normal	1	1	1	1.0	1.0
Response Time	0.8	rectangular	$\sqrt{3}$	1	1	0.5	0.5
Integration Time	1.7	rectangular	$\sqrt{3}$	1	1	1.0	1.0
RF Ambient Condition	3.0	rectangular	$\sqrt{3}$	1	1	1.7	1.7
Probe Positioner Mech.	0.4	rectangular	$\sqrt{3}$	1	1	0.2	0.2
Restriction							
Probe Positioning with respect to Phantom Shell	2.9	rectangular	$\sqrt{3}$	1	1	1.7	1.7
Extrapolation and Integration	3.7	rectangular	$\sqrt{3}$	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	0.1	rectangular	$\sqrt{3}$	1	1	0.0	0.0
Phantom and Setup							
Phantom Uncertainty(shape & thickness tolerance)	3.4	rectangular	$\sqrt{3}$	1	1	2.0	2.0
Liquid Conductivity(target)	5.0	rectangular	$\sqrt{3}$	0.7	0.5	2.0	1.4
Liquid Conductivity(meas.)	3.1	normal	1	0.7	0.5	2.2	1.5
Liquid Permittivity(target)	5.0	rectangular	$\sqrt{3}$	0.6	0.5	1.7	1.4
Liquid Permittivity(meas.)	8.9	normal	1	0.6	0.5	5.3	4.4
Combined Uncertainty		RSS				10.9	10.2
Combined Uncertainty (coverage factor=2)		Normal (k=2)				21.7	20.4



SAR Test Report (11b mode tip edge high)

Report Date : 16-Nov-2010
By Operator : 123
Measurement Date : 16-Nov-2010
Starting Time : 16-Nov-2010 05:44:44 PM
End Time : 16-Nov-2010 06:00:24 PM
Scanning Time : 940 secs

Product Data

Device Name : Computer
Serial No. : 123
Type : Std Form Cell Phone
Model : 123
Frequency : 2400.00 MHz
Max. Transmit Pwr : 1 W
Drift Time : 0 min(s)
Length : 255 mm
Width : 160 mm
Depth : 10 mm
Antenna Type : Internal
Orientation : Touch
Power Drift-Start : 0.514 W/kg
Power Drift-Finish: 0.540 W/kg
Power Drift (%) : 4.977
Picture :

Phantom Data

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

Tissue Data

Type : BODY
Serial No. : IAC Tissue - 2450
Frequency : 2450.00 MHz
Last Calib. Date : 15-May-2008
Temperature : 20.00 °C
Ambient Temp. : 20.00 °C
Humidity : 50.00 RH%
Epsilon : 48.01 F/m
Sigma : 1.89 S/m
Density : 1000.00 kg/cu. m

ALSAS-10U VER 2.3.8.90

Probe Data

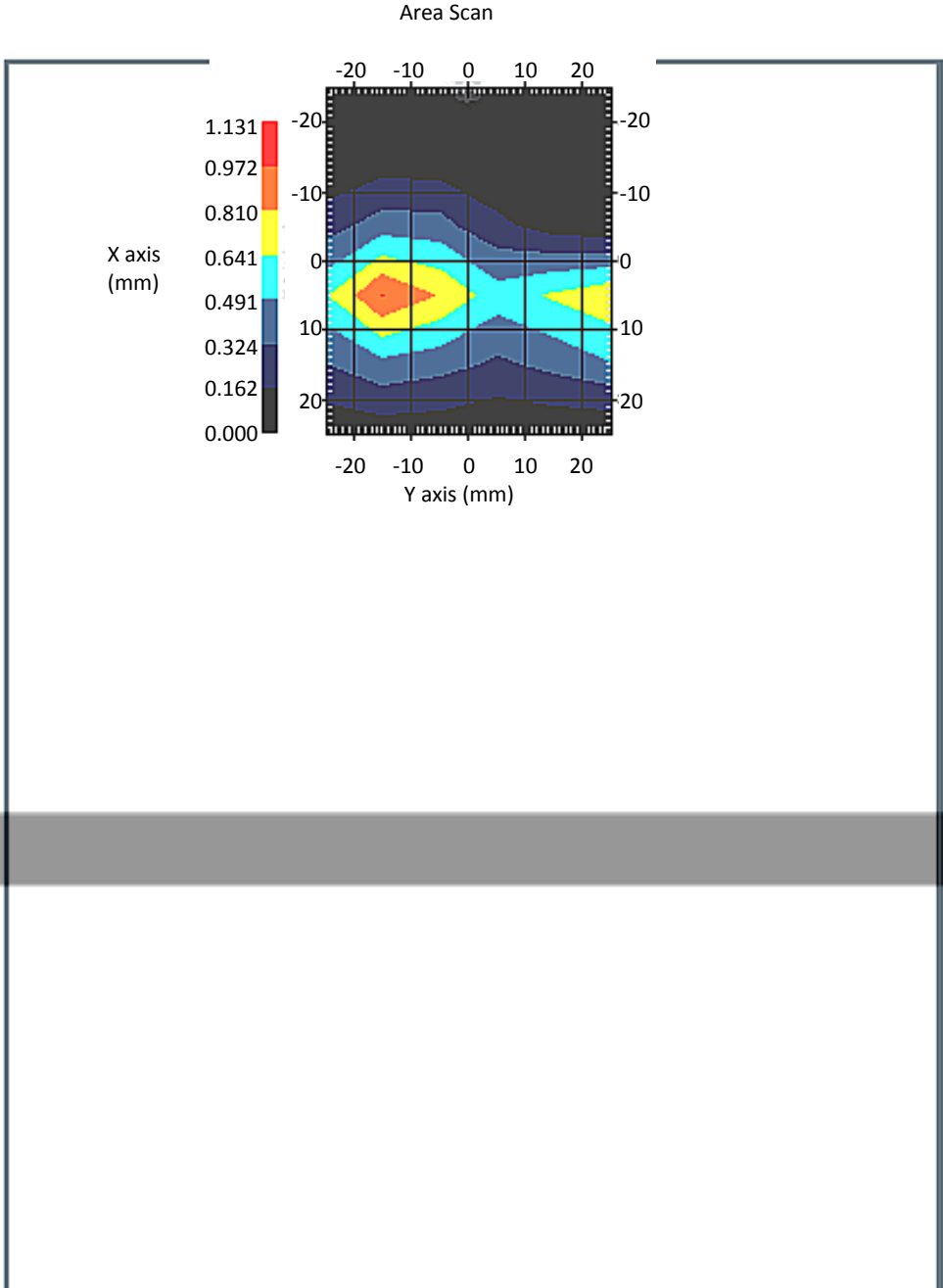
Name : IAC-273
Model : E020
Type : E-Field Triangle
Serial No. : 273
Last Calib. Date : 13-Sep-2010
Frequency : 2450.00 MHz
Duty Cycle Factor: 1
Conversion Factor: 3.6
Probe Sensitivity: 1.20 1.20 1.20 $\mu\text{V}/(\text{V}/\text{m})^2$
Compression Point: 95.00 mV
Offset : 1.56 mm

Measurement Data

Crest Factor : 1
Scan Type : Complete
Tissue Temp. : 20.00 °C
Ambient Temp. : 20.00 °C
Set-up Date : 16-Nov-2010
Set-up Time : 5:44:40 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 : Touch
Separation : 0
Channel : High

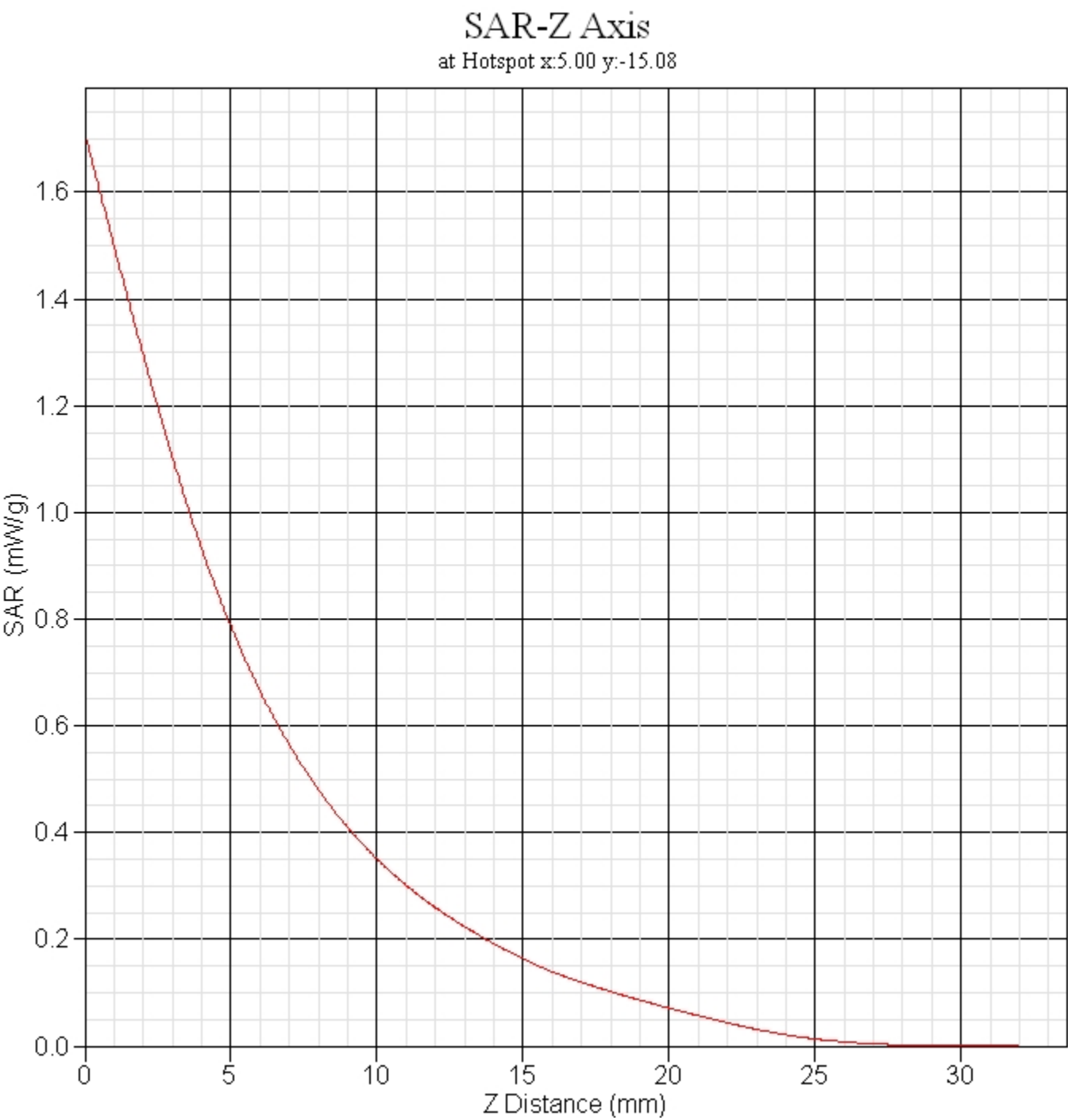


ALSAS-10U VER 2.3.8.90

1 gram SAR value : 0.790 W/kg
10 gram SAR value : 0.340 W/kg
Area Scan Peak SAR : 0.974 W/kg
Zoom Scan Peak SAR : 1.711 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	$\sqrt{3}$	$(1-cp)^{1/2}$	$(1-cp)^{1/2}$	1.5	1.5
Hemispherical Isotropy	10.9	rectangular	$\sqrt{3}$	\sqrt{cp}	\sqrt{cp}	4.4	4.4
Boundary Effect	1.0	rectangular	$\sqrt{3}$	1	1	0.6	0.6
Linearity	4.7	rectangular	$\sqrt{3}$	1	1	2.7	2.7
Detection Limit	1.0	rectangular	$\sqrt{3}$	1	1	0.6	0.6
Readout Electronics	1.0	normal	1	1	1	1.0	1.0
Response Time	0.8	rectangular	$\sqrt{3}$	1	1	0.5	0.5
Integration Time	1.7	rectangular	$\sqrt{3}$	1	1	1.0	1.0
RF Ambient Condition	3.0	rectangular	$\sqrt{3}$	1	1	1.7	1.7
Probe Positioner Mech.	0.4	rectangular	$\sqrt{3}$	1	1	0.2	0.2
Restriction							
Probe Positioning with respect to Phantom Shell	2.9	rectangular	$\sqrt{3}$	1	1	1.7	1.7
Extrapolation and Integration	3.7	rectangular	$\sqrt{3}$	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	5.0	rectangular	$\sqrt{3}$	1	1	2.9	2.9
Phantom and Setup							
Phantom Uncertainty(shape & thickness tolerance)	3.4	rectangular	$\sqrt{3}$	1	1	2.0	2.0
Liquid Conductivity(target)	5.0	rectangular	$\sqrt{3}$	0.7	0.5	2.0	1.4
Liquid Conductivity(meas.)	3.1	normal	1	0.7	0.5	2.2	1.5
Liquid Permittivity(target)	5.0	rectangular	$\sqrt{3}$	0.6	0.5	1.7	1.4
Liquid Permittivity(meas.)	8.9	normal	1	0.6	0.5	5.3	4.4
Combined Uncertainty		RSS				11.3	10.6
Combined Uncertainty (coverage factor=2)		Normal (k=2)				22.5	21.2



SAR Test Report (11g mode bottom low)

Report Date : 16-Nov-2010
By Operator : 123
Measurement Date : 16-Nov-2010
Starting Time : 16-Nov-2010 10:44:52 AM
End Time : 16-Nov-2010 11:00:28 AM
Scanning Time : 936 secs

Product Data

Device Name : Computer
Serial No. : 123
Type : Std Form Cell Phone
Model : 123
Frequency : 2400.00 MHz
Max. Transmit Pwr : 1 W
Drift Time : 0 min(s)
Length : 255 mm
Width : 160 mm
Depth : 10 mm
Antenna Type : Internal
Orientation : Touch
Power Drift-Start : 0.417 W/kg
Power Drift-Finish: 0.396 W/kg
Power Drift (%) : -5.029
Picture :

Phantom Data

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

Tissue Data

Type : BODY
Serial No. : IAC Tissue - 2450
Frequency : 2450.00 MHz
Last Calib. Date : 15-May-2008
Temperature : 20.00 °C
Ambient Temp. : 20.00 °C
Humidity : 50.00 RH%
Epsilon : 48.01 F/m
Sigma : 1.89 S/m
Density : 1000.00 kg/cu. m

ALSAS-10U VER 2.3.8.90

Probe Data

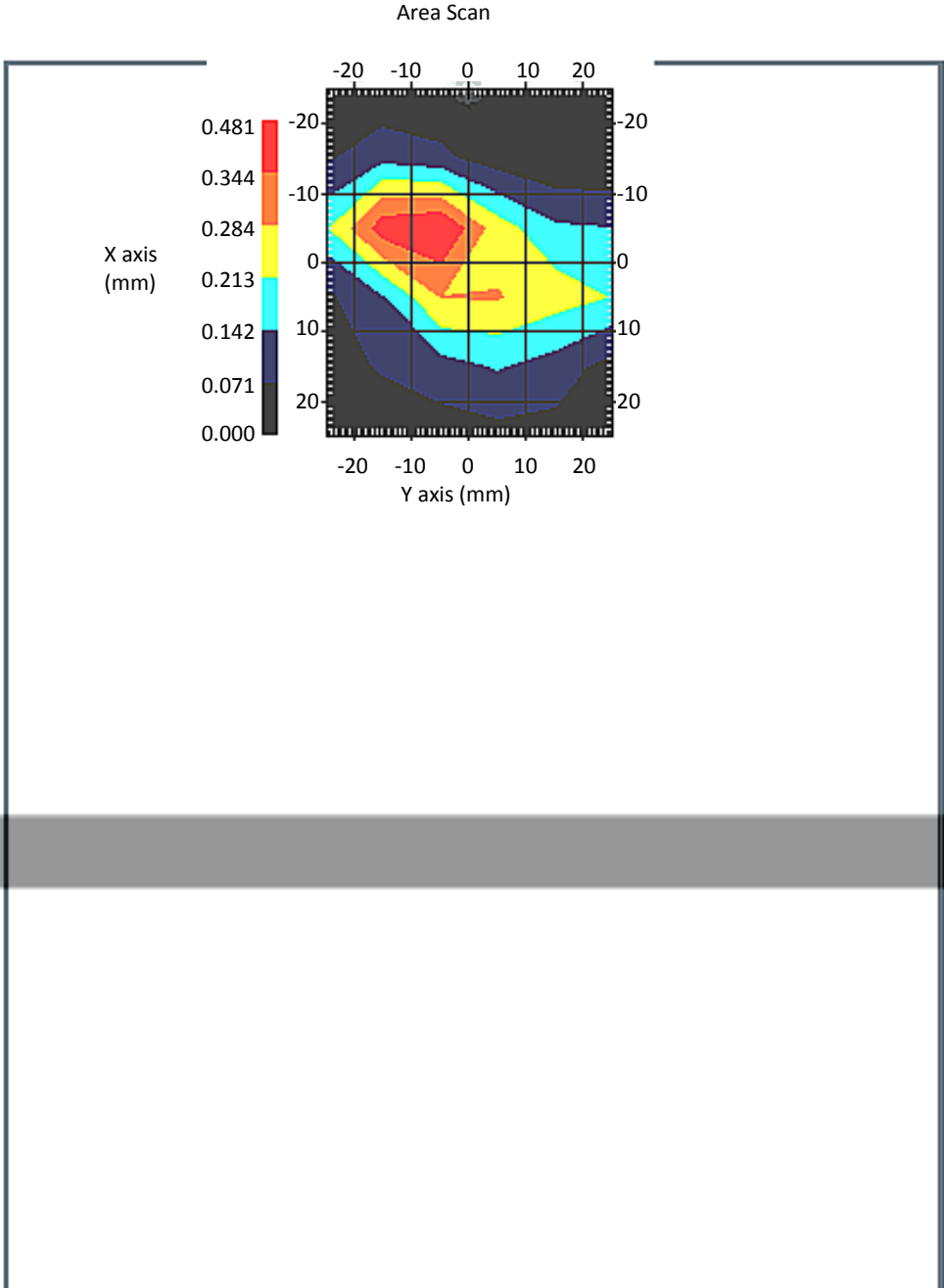
Name : IAC-273
Model : E020
Type : E-Field Triangle
Serial No. : 273
Last Calib. Date : 13-Sep-2010
Frequency : 2450.00 MHz
Duty Cycle Factor: 1
Conversion Factor: 3.6
Probe Sensitivity: 1.20 1.20 1.20 $\mu\text{V}/(\text{V}/\text{m})^2$
Compression Point: 95.00 mV
Offset : 1.56 mm

Measurement Data

Crest Factor : 1
Scan Type : Complete
Tissue Temp. : 20.00 °C
Ambient Temp. : 20.00 °C
Set-up Date : 16-Nov-2010
Set-up Time : 10:44:48 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 : Touch
Separation : 0
Channel : Low

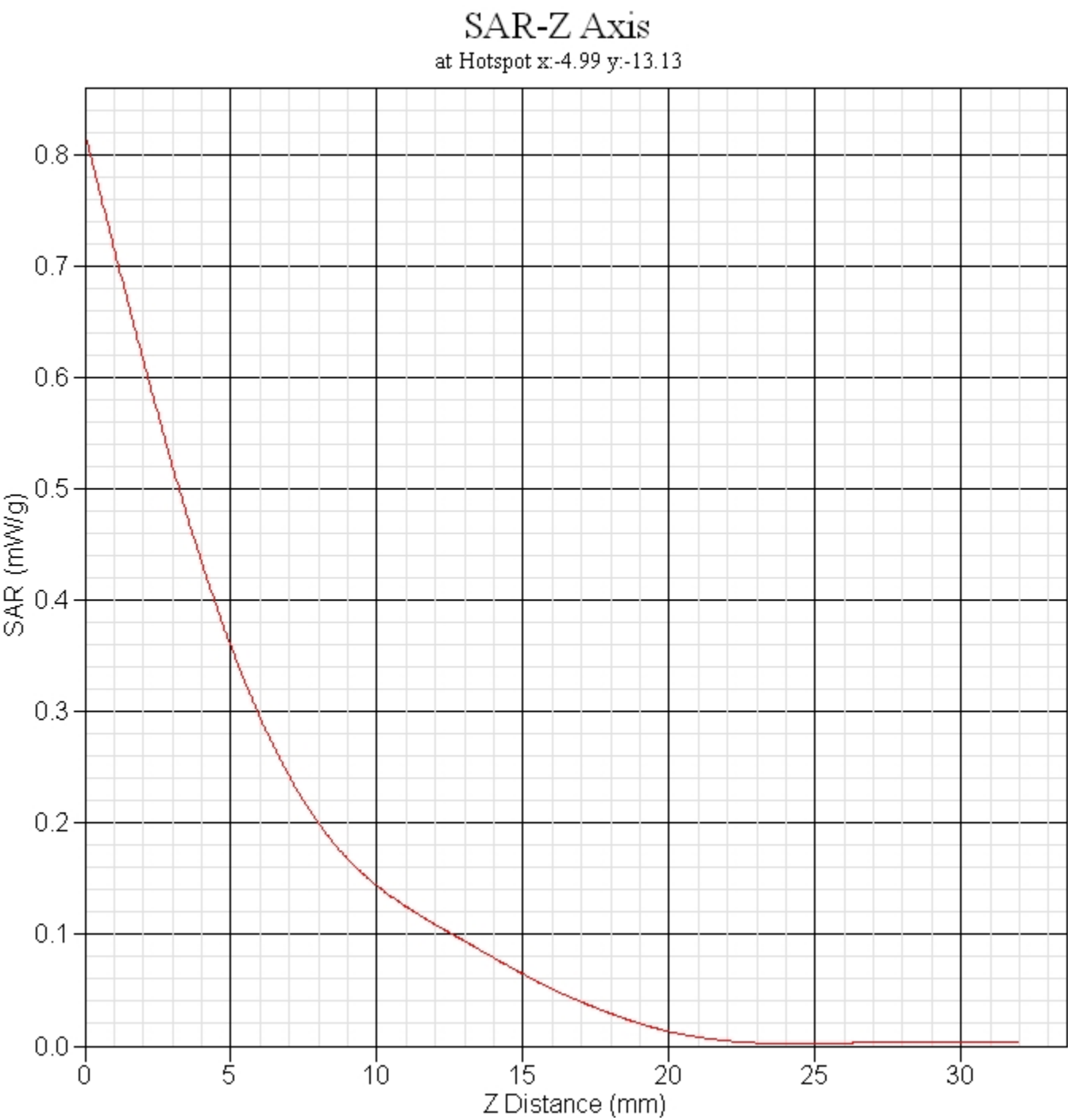


ALSAS-10U VER 2.3.8.90

1 gram SAR value : 0.346 W/kg
10 gram SAR value : 0.135 W/kg
Area Scan Peak SAR : 0.426 W/kg
Zoom Scan Peak SAR : 0.820 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	$\sqrt{3}$	$(1-cp)^{1/2}$	$(1-cp)^{1/2}$	1.5	1.5
Hemispherical Isotropy	10.9	rectangular	$\sqrt{3}$	\sqrt{cp}	\sqrt{cp}	4.4	4.4
Boundary Effect	1.0	rectangular	$\sqrt{3}$	1	1	0.6	0.6
Linearity	4.7	rectangular	$\sqrt{3}$	1	1	2.7	2.7
Detection Limit	1.0	rectangular	$\sqrt{3}$	1	1	0.6	0.6
Readout Electronics	1.0	normal	1	1	1	1.0	1.0
Response Time	0.8	rectangular	$\sqrt{3}$	1	1	0.5	0.5
Integration Time	1.7	rectangular	$\sqrt{3}$	1	1	1.0	1.0
RF Ambient Condition	3.0	rectangular	$\sqrt{3}$	1	1	1.7	1.7
Probe Positioner Mech.	0.4	rectangular	$\sqrt{3}$	1	1	0.2	0.2
Restriction							
Probe Positioning with respect to Phantom Shell	2.9	rectangular	$\sqrt{3}$	1	1	1.7	1.7
Extrapolation and Integration	3.7	rectangular	$\sqrt{3}$	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	5.0	rectangular	$\sqrt{3}$	1	1	2.9	2.9
Phantom and Setup							
Phantom Uncertainty(shape & thickness tolerance)	3.4	rectangular	$\sqrt{3}$	1	1	2.0	2.0
Liquid Conductivity(target)	5.0	rectangular	$\sqrt{3}$	0.7	0.5	2.0	1.4
Liquid Conductivity(meas.)	3.1	normal	1	0.7	0.5	2.2	1.5
Liquid Permittivity(target)	5.0	rectangular	$\sqrt{3}$	0.6	0.5	1.7	1.4
Liquid Permittivity(meas.)	8.9	normal	1	0.6	0.5	5.3	4.4
Combined Uncertainty		RSS				11.3	10.6
Combined Uncertainty (coverage factor=2)		Normal (k=2)				22.5	21.2



SAR Test Report (11g mode bottom mid)

Report Date : 16-Nov-2010
By Operator : 123
Measurement Date : 16-Nov-2010
Starting Time : 16-Nov-2010 11:11:25 AM
End Time : 16-Nov-2010 11:27:27 AM
Scanning Time : 962 secs

Product Data

Device Name : Computer
Serial No. : 123
Type : Std Form Cell Phone
Model : 123
Frequency : 2400.00 MHz
Max. Transmit Pwr : 1 W
Drift Time : 0 min(s)
Length : 255 mm
Width : 160 mm
Depth : 10 mm
Antenna Type : Internal
Orientation : Touch
Power Drift-Start : 0.595 W/kg
Power Drift-Finish: 0.603 W/kg
Power Drift (%) : 1.244
Picture :

Phantom Data

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

Tissue Data

Type : BODY
Serial No. : IAC Tissue - 2450
Frequency : 2450.00 MHz
Last Calib. Date : 15-May-2008
Temperature : 20.00 °C
Ambient Temp. : 20.00 °C
Humidity : 50.00 RH%
Epsilon : 48.01 F/m
Sigma : 1.89 S/m
Density : 1000.00 kg/cu. m

ALSAS-10U VER 2.3.8.90

Probe Data

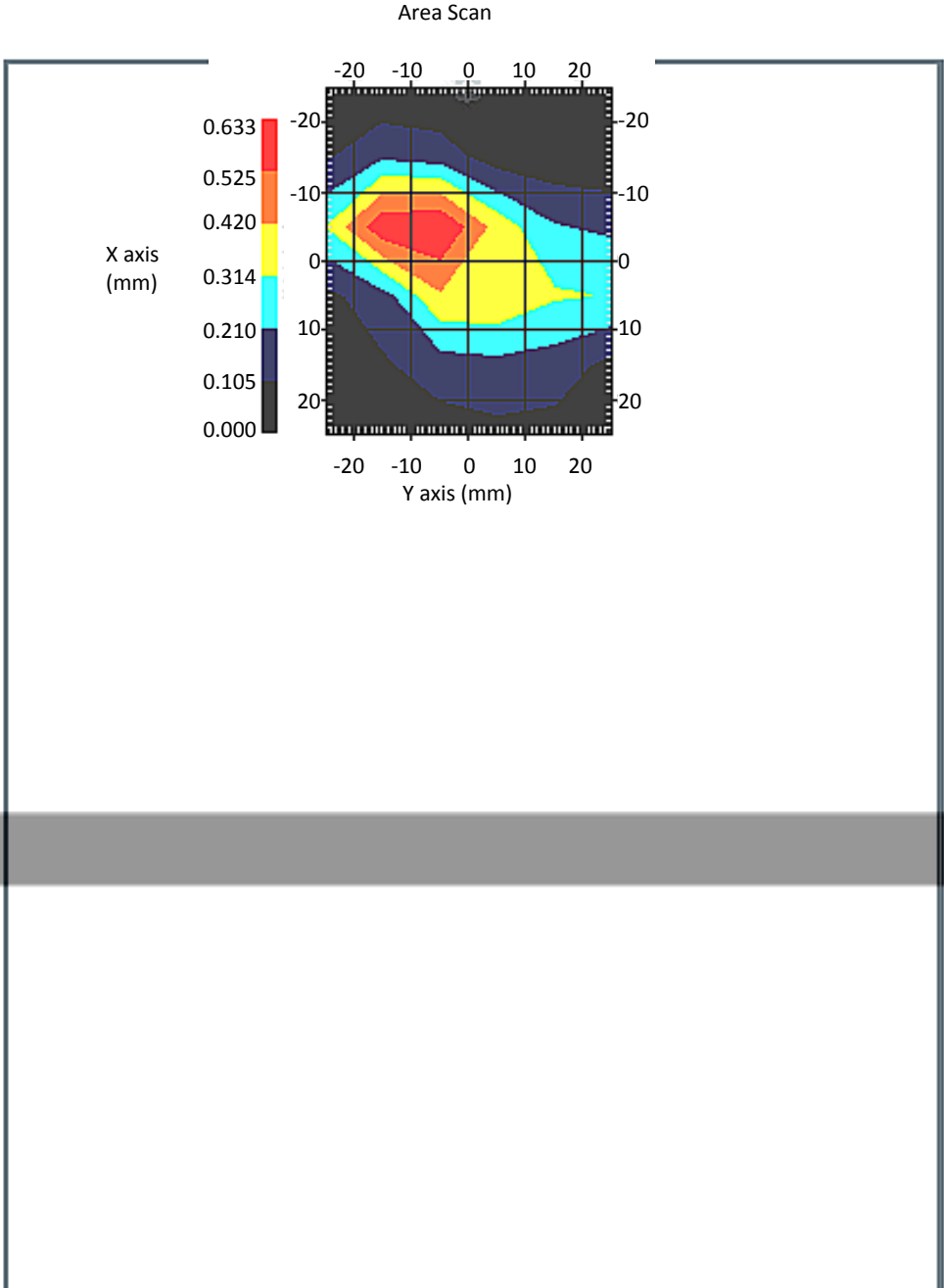
Name : IAC-273
Model : E020
Type : E-Field Triangle
Serial No. : 273
Last Calib. Date : 13-Sep-2010
Frequency : 2450.00 MHz
Duty Cycle Factor: 1
Conversion Factor: 3.6
Probe Sensitivity: 1.20 1.20 1.20 $\mu\text{V}/(\text{V}/\text{m})^2$
Compression Point: 95.00 mV
Offset : 1.56 mm

Measurement Data

Crest Factor : 1
Scan Type : Complete
Tissue Temp. : 20.00 °C
Ambient Temp. : 20.00 °C
Set-up Date : 16-Nov-2010
Set-up Time : 11:11:21 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 : Touch
Separation : 0
Channel : Mid

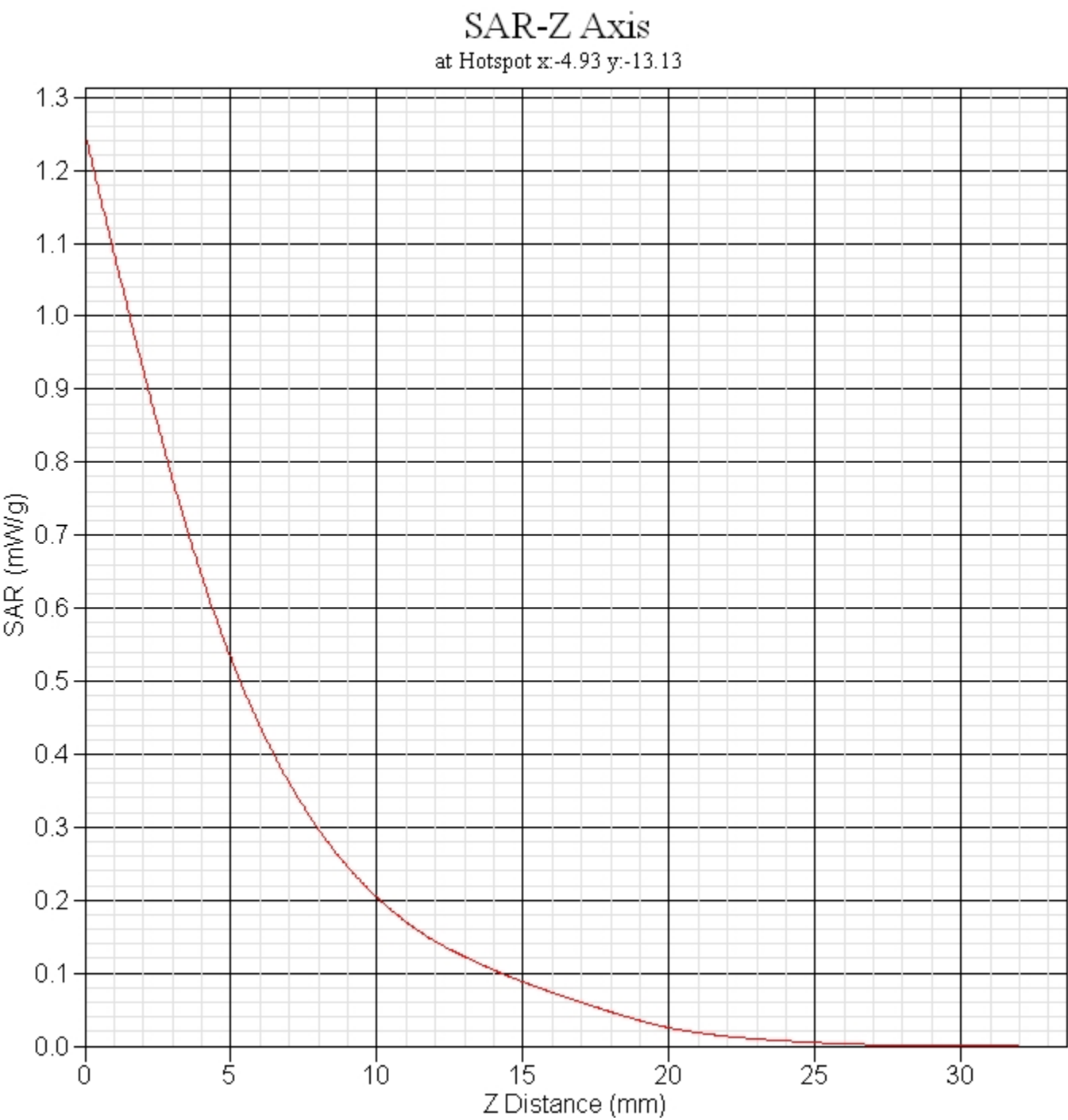


ALSAS-10U VER 2.3.8.90

1 gram SAR value : 0.499 W/kg
10 gram SAR value : 0.189 W/kg
Area Scan Peak SAR : 0.629 W/kg
Zoom Scan Peak SAR : 1.251 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	$\sqrt{3}$	$(1-cp)^{1/2}$	$(1-cp)^{1/2}$	1.5	1.5
Hemispherical Isotropy	10.9	rectangular	$\sqrt{3}$	\sqrt{cp}	\sqrt{cp}	4.4	4.4
Boundary Effect	1.0	rectangular	$\sqrt{3}$	1	1	0.6	0.6
Linearity	4.7	rectangular	$\sqrt{3}$	1	1	2.7	2.7
Detection Limit	1.0	rectangular	$\sqrt{3}$	1	1	0.6	0.6
Readout Electronics	1.0	normal	1	1	1	1.0	1.0
Response Time	0.8	rectangular	$\sqrt{3}$	1	1	0.5	0.5
Integration Time	1.7	rectangular	$\sqrt{3}$	1	1	1.0	1.0
RF Ambient Condition	3.0	rectangular	$\sqrt{3}$	1	1	1.7	1.7
Probe Positioner Mech.	0.4	rectangular	$\sqrt{3}$	1	1	0.2	0.2
Restriction							
Probe Positioning with respect to Phantom Shell	2.9	rectangular	$\sqrt{3}$	1	1	1.7	1.7
Extrapolation and Integration	3.7	rectangular	$\sqrt{3}$	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	1.2	rectangular	$\sqrt{3}$	1	1	0.7	0.7
Phantom and Setup							
Phantom Uncertainty(shape & thickness tolerance)	3.4	rectangular	$\sqrt{3}$	1	1	2.0	2.0
Liquid Conductivity(target)	5.0	rectangular	$\sqrt{3}$	0.7	0.5	2.0	1.4
Liquid Conductivity(meas.)	3.1	normal	1	0.7	0.5	2.2	1.5
Liquid Permittivity(target)	5.0	rectangular	$\sqrt{3}$	0.6	0.5	1.7	1.4
Liquid Permittivity(meas.)	8.9	normal	1	0.6	0.5	5.3	4.4
Combined Uncertainty		RSS				10.9	10.2
Combined Uncertainty (coverage factor=2)		Normal (k=2)				21.8	20.4



SAR Test Report (11g mode bottom high)

Report Date : 16-Nov-2010
By Operator : 123
Measurement Date : 16-Nov-2010
Starting Time : 16-Nov-2010 11:35:51 AM
End Time : 16-Nov-2010 11:51:47 AM
Scanning Time : 956 secs

Product Data

Device Name : Computer
Serial No. : 123
Type : Std Form Cell Phone
Model : 123
Frequency : 2400.00 MHz
Max. Transmit Pwr : 1 W
Drift Time : 0 min(s)
Length : 255 mm
Width : 160 mm
Depth : 10 mm
Antenna Type : Internal
Orientation : Touch
Power Drift-Start : 0.580 W/kg
Power Drift-Finish: 0.630 W/kg
Power Drift (%) : 8.708
Picture :

Phantom Data

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

Tissue Data

Type : BODY
Serial No. : IAC Tissue - 2450
Frequency : 2450.00 MHz
Last Calib. Date : 15-May-2008
Temperature : 20.00 °C
Ambient Temp. : 20.00 °C
Humidity : 50.00 RH%
Epsilon : 48.01 F/m
Sigma : 1.89 S/m
Density : 1000.00 kg/cu. m

ALSAS-10U VER 2.3.8.90

Probe Data

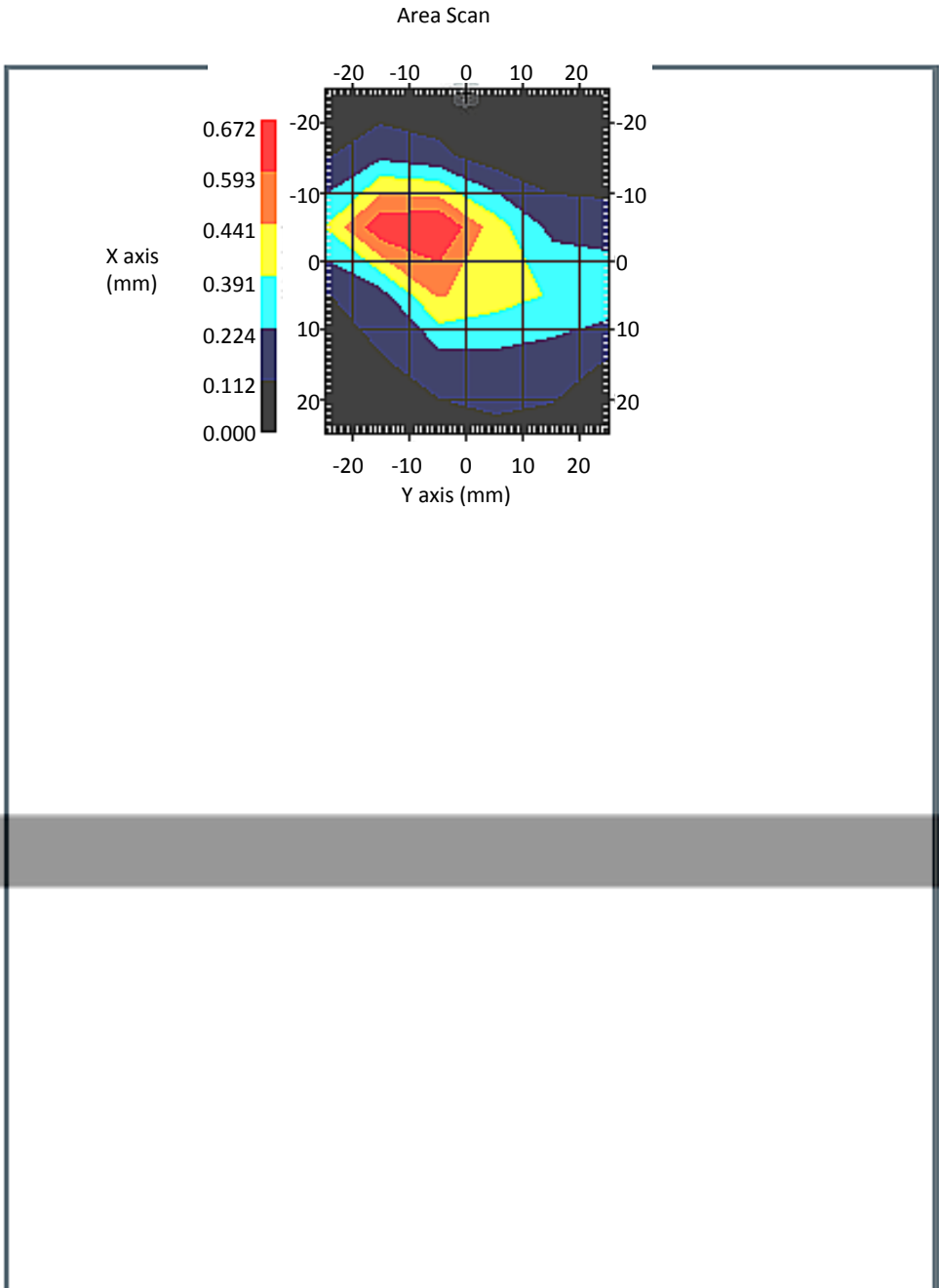
Name : IAC-273
Model : E020
Type : E-Field Triangle
Serial No. : 273
Last Calib. Date : 13-Sep-2010
Frequency : 2450.00 MHz
Duty Cycle Factor: 1
Conversion Factor: 3.6
Probe Sensitivity: 1.20 1.20 1.20 $\mu\text{V}/(\text{V}/\text{m})^2$
Compression Point: 95.00 mV
Offset : 1.56 mm

Measurement Data

Crest Factor : 1
Scan Type : Complete
Tissue Temp. : 20.00 °C
Ambient Temp. : 20.00 °C
Set-up Date : 16-Nov-2010
Set-up Time : 11:35:47 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 : Touch
Separation : 0
Channel : High

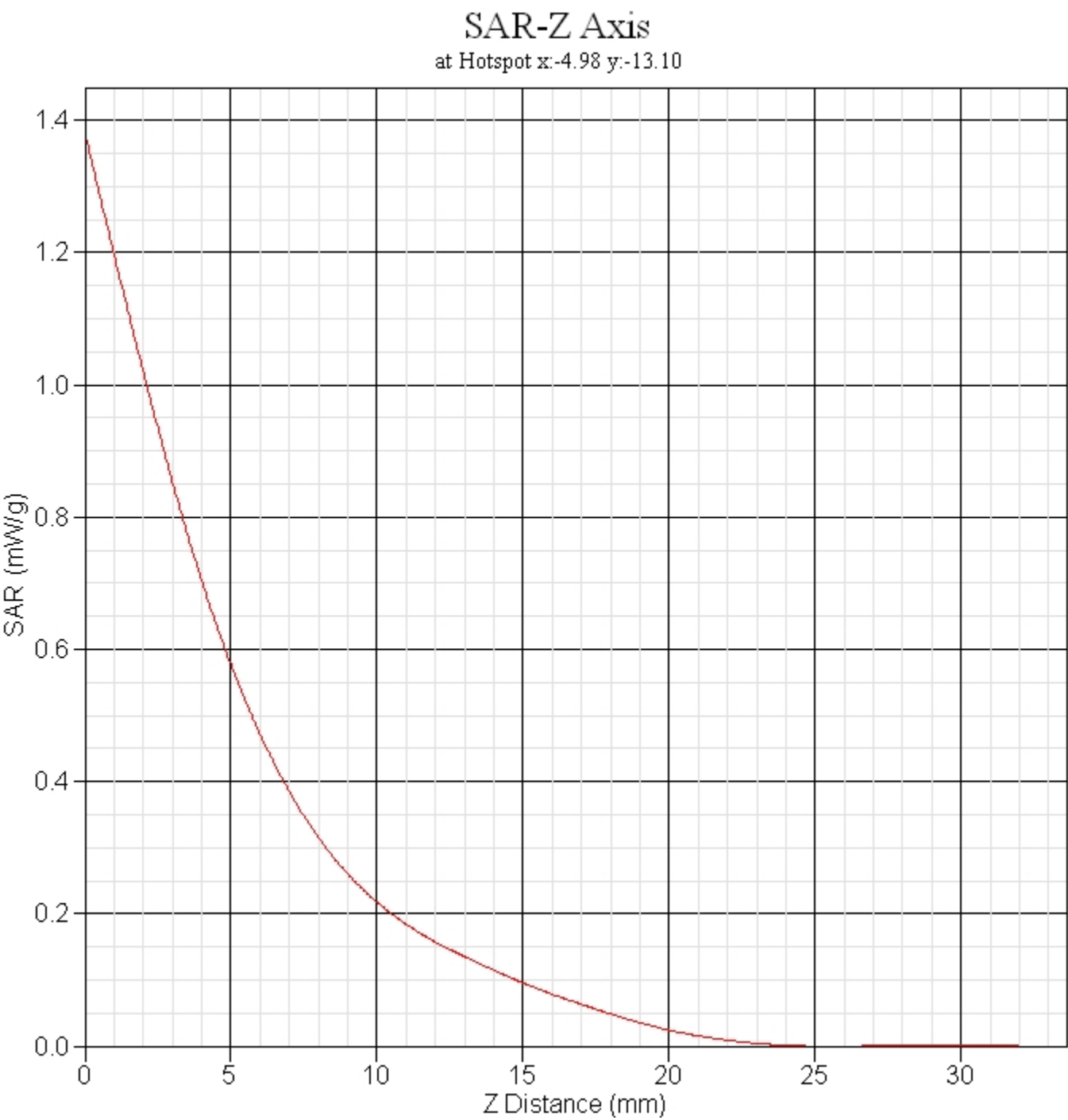


ALSAS-10U VER 2.3.8.90

1 gram SAR value : 0.555 W/kg
10 gram SAR value : 0.211 W/kg
Area Scan Peak SAR : 0.672 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	$\sqrt{3}$	$(1-cp)^{1/2}$	$(1-cp)^{1/2}$	1.5	1.5
Hemispherical Isotropy	10.9	rectangular	$\sqrt{3}$	\sqrt{cp}	\sqrt{cp}	4.4	4.4
Boundary Effect	1.0	rectangular	$\sqrt{3}$	1	1	0.6	0.6
Linearity	4.7	rectangular	$\sqrt{3}$	1	1	2.7	2.7
Detection Limit	1.0	rectangular	$\sqrt{3}$	1	1	0.6	0.6
Readout Electronics	1.0	normal	1	1	1	1.0	1.0
Response Time	0.8	rectangular	$\sqrt{3}$	1	1	0.5	0.5
Integration Time	1.7	rectangular	$\sqrt{3}$	1	1	1.0	1.0
RF Ambient Condition	3.0	rectangular	$\sqrt{3}$	1	1	1.7	1.7
Probe Positioner Mech.	0.4	rectangular	$\sqrt{3}$	1	1	0.2	0.2
Restriction							
Probe Positioning with respect to Phantom Shell	2.9	rectangular	$\sqrt{3}$	1	1	1.7	1.7
Extrapolation and Integration	3.7	rectangular	$\sqrt{3}$	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	8.7	rectangular	$\sqrt{3}$	1	1	5.0	5.0
Phantom and Setup							
Phantom Uncertainty(shape & thickness tolerance)	3.4	rectangular	$\sqrt{3}$	1	1	2.0	2.0
Liquid Conductivity(target)	5.0	rectangular	$\sqrt{3}$	0.7	0.5	2.0	1.4
Liquid Conductivity(meas.)	3.1	normal	1	0.7	0.5	2.2	1.5
Liquid Permittivity(target)	5.0	rectangular	$\sqrt{3}$	0.6	0.5	1.7	1.4
Liquid Permittivity(meas.)	8.9	normal	1	0.6	0.5	5.3	4.4
Combined Uncertainty		RSS				12.0	11.4
Combined Uncertainty (coverage factor=2)		Normal (k=2)				23.9	22.7



SAR Test Report (11g mode tip edge low)

Report Date : 16-Nov-2010
By Operator : 123
Measurement Date : 16-Nov-2010
Starting Time : 16-Nov-2010 03:54:38 PM
End Time : 16-Nov-2010 04:10:01 PM
Scanning Time : 923 secs

Product Data

Device Name : Computer
Serial No. : 123
Type : Std Form Cell Phone
Model : 123
Frequency : 2400.00 MHz
Max. Transmit Pwr : 1 W
Drift Time : 0 min(s)
Length : 255 mm
Width : 160 mm
Depth : 10 mm
Antenna Type : Internal
Orientation : Touch
Power Drift-Start : 0.441 W/kg
Power Drift-Finish: 0.457 W/kg
Power Drift (%) : 3.638
Picture :

Phantom Data

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

Tissue Data

Type : BODY
Serial No. : IAC Tissue - 2450
Frequency : 2450.00 MHz
Last Calib. Date : 15-May-2008
Temperature : 20.00 °C
Ambient Temp. : 20.00 °C
Humidity : 50.00 RH%
Epsilon : 48.01 F/m
Sigma : 1.89 S/m
Density : 1000.00 kg/cu. m

ALSAS-10U VER 2.3.8.90

Probe Data

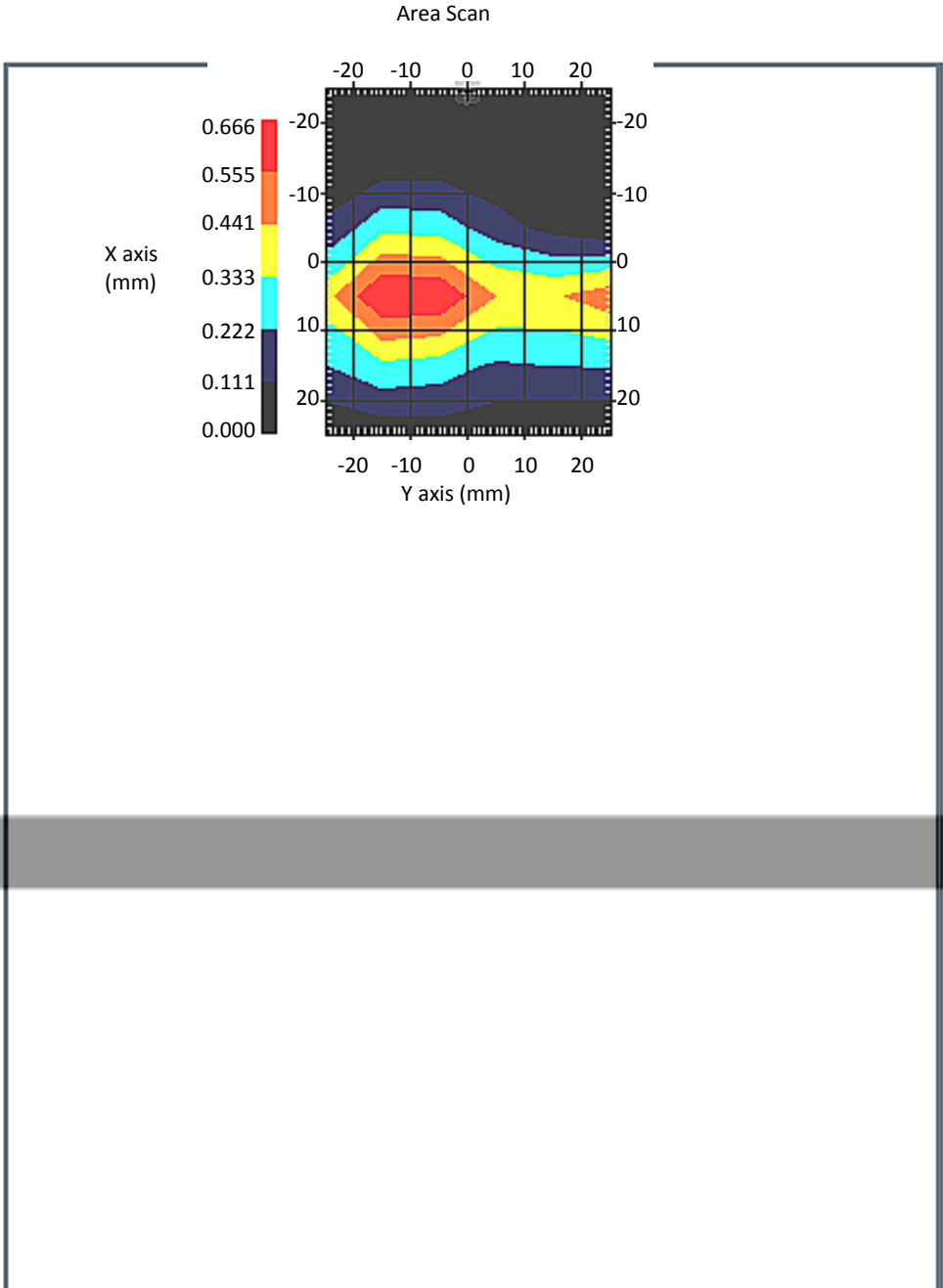
Name : IAC-273
Model : E020
Type : E-Field Triangle
Serial No. : 273
Last Calib. Date : 13-Sep-2010
Frequency : 2450.00 MHz
Duty Cycle Factor: 1
Conversion Factor: 3.6
Probe Sensitivity: 1.20 1.20 1.20 $\mu\text{V}/(\text{V}/\text{m})^2$
Compression Point: 95.00 mV
Offset : 1.56 mm

Measurement Data

Crest Factor : 1
Scan Type : Complete
Tissue Temp. : 20.00 °C
Ambient Temp. : 20.00 °C
Set-up Date : 16-Nov-2010
Set-up Time : 3:54:34 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 : Touch
Separation : 0
Channel : Low

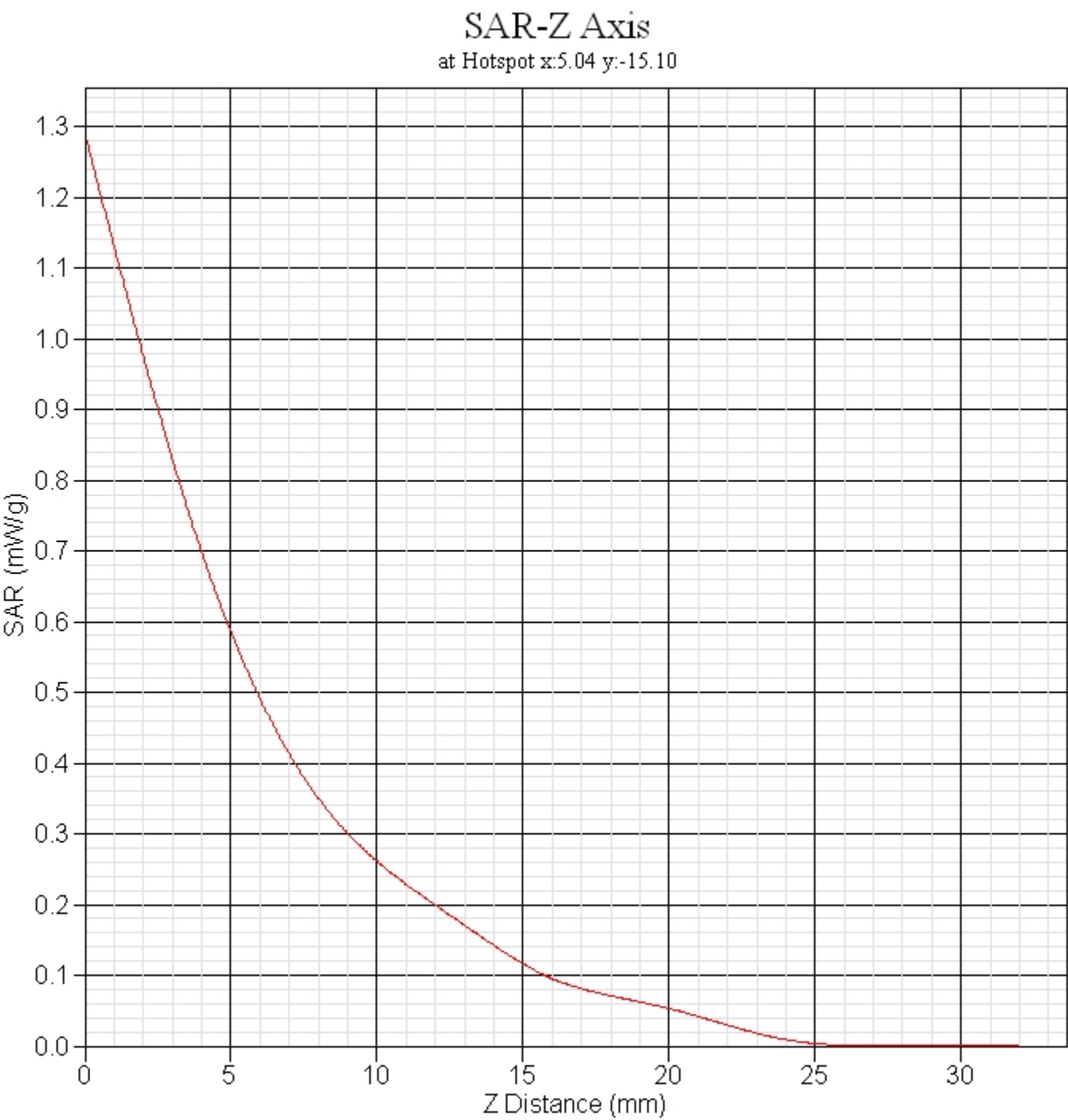


ALSAS-10U VER 2.3.8.90

1 gram SAR value : 0.585 W/kg
10 gram SAR value : 0.249 W/kg
Area Scan Peak SAR : 0.666 W/kg
Zoom Scan Peak SAR : 1.291 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	$\sqrt{3}$	$(1-cp)^{1/2}$	$(1-cp)^{1/2}$	1.5	1.5
Hemispherical Isotropy	10.9	rectangular	$\sqrt{3}$	\sqrt{cp}	\sqrt{cp}	4.4	4.4
Boundary Effect	1.0	rectangular	$\sqrt{3}$	1	1	0.6	0.6
Linearity	4.7	rectangular	$\sqrt{3}$	1	1	2.7	2.7
Detection Limit	1.0	rectangular	$\sqrt{3}$	1	1	0.6	0.6
Readout Electronics	1.0	normal	1	1	1	1.0	1.0
Response Time	0.8	rectangular	$\sqrt{3}$	1	1	0.5	0.5
Integration Time	1.7	rectangular	$\sqrt{3}$	1	1	1.0	1.0
RF Ambient Condition	3.0	rectangular	$\sqrt{3}$	1	1	1.7	1.7
Probe Positioner Mech.	0.4	rectangular	$\sqrt{3}$	1	1	0.2	0.2
Restriction							
Probe Positioning with respect to Phantom Shell	2.9	rectangular	$\sqrt{3}$	1	1	1.7	1.7
Extrapolation and Integration	3.7	rectangular	$\sqrt{3}$	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	3.6	rectangular	$\sqrt{3}$	1	1	2.1	2.1
Phantom and Setup							
Phantom Uncertainty(shape & thickness tolerance)	3.4	rectangular	$\sqrt{3}$	1	1	2.0	2.0
Liquid Conductivity(target)	5.0	rectangular	$\sqrt{3}$	0.7	0.5	2.0	1.4
Liquid Conductivity(meas.)	3.1	normal	1	0.7	0.5	2.2	1.5
Liquid Permittivity(target)	5.0	rectangular	$\sqrt{3}$	0.6	0.5	1.7	1.4
Liquid Permittivity(meas.)	8.9	normal	1	0.6	0.5	5.3	4.4
Combined Uncertainty		RSS				11.1	10.4
Combined Uncertainty (coverage factor=2)		Normal (k=2)				22.1	20.8



SAR Test Report (11g mode tip edge mid)

Report Date : 16-Nov-2010
By Operator : 123
Measurement Date : 16-Nov-2010
Starting Time : 16-Nov-2010 04:14:54 PM
End Time : 16-Nov-2010 04:30:35 PM
Scanning Time : 941 secs

Product Data

Device Name : Computer
Serial No. : 123
Type : Std Form Cell Phone
Model : 123
Frequency : 2400.00 MHz
Max. Transmit Pwr : 1 W
Drift Time : 0 min(s)
Length : 255 mm
Width : 160 mm
Depth : 10 mm
Antenna Type : Internal
Orientation : Touch
Power Drift-Start : 0.486 W/kg
Power Drift-Finish: 0.460 W/kg
Power Drift (%) : -5.331
Picture :

Phantom Data

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

Tissue Data

Type : BODY
Serial No. : IAC Tissue - 2450
Frequency : 2450.00 MHz
Last Calib. Date : 15-May-2008
Temperature : 20.00 °C
Ambient Temp. : 20.00 °C
Humidity : 50.00 RH%
Epsilon : 48.01 F/m
Sigma : 1.89 S/m
Density : 1000.00 kg/cu. m

ALSAS-10U VER 2.3.8.90

Probe Data

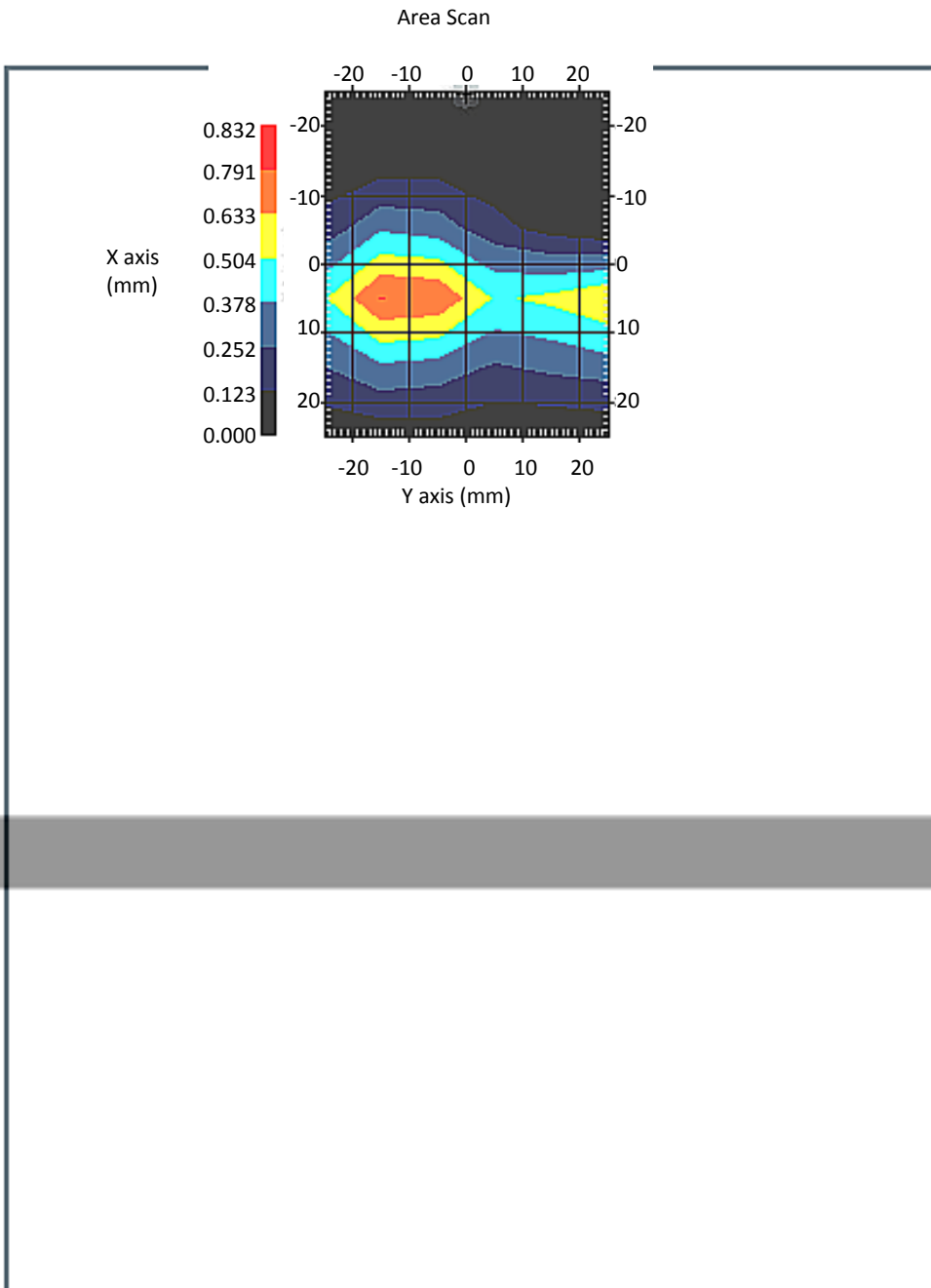
Name : IAC-273
Model : E020
Type : E-Field Triangle
Serial No. : 273
Last Calib. Date : 13-Sep-2010
Frequency : 2450.00 MHz
Duty Cycle Factor: 1
Conversion Factor: 3.6
Probe Sensitivity: 1.20 1.20 1.20 $\mu\text{V}/(\text{V}/\text{m})^2$
Compression Point: 95.00 mV
Offset : 1.56 mm

Measurement Data

Crest Factor : 1
Scan Type : Complete
Tissue Temp. : 20.00 °C
Ambient Temp. : 20.00 °C
Set-up Date : 16-Nov-2010
Set-up Time : 4:14:50 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 : Touch
Separation : 0
Channel : Mid

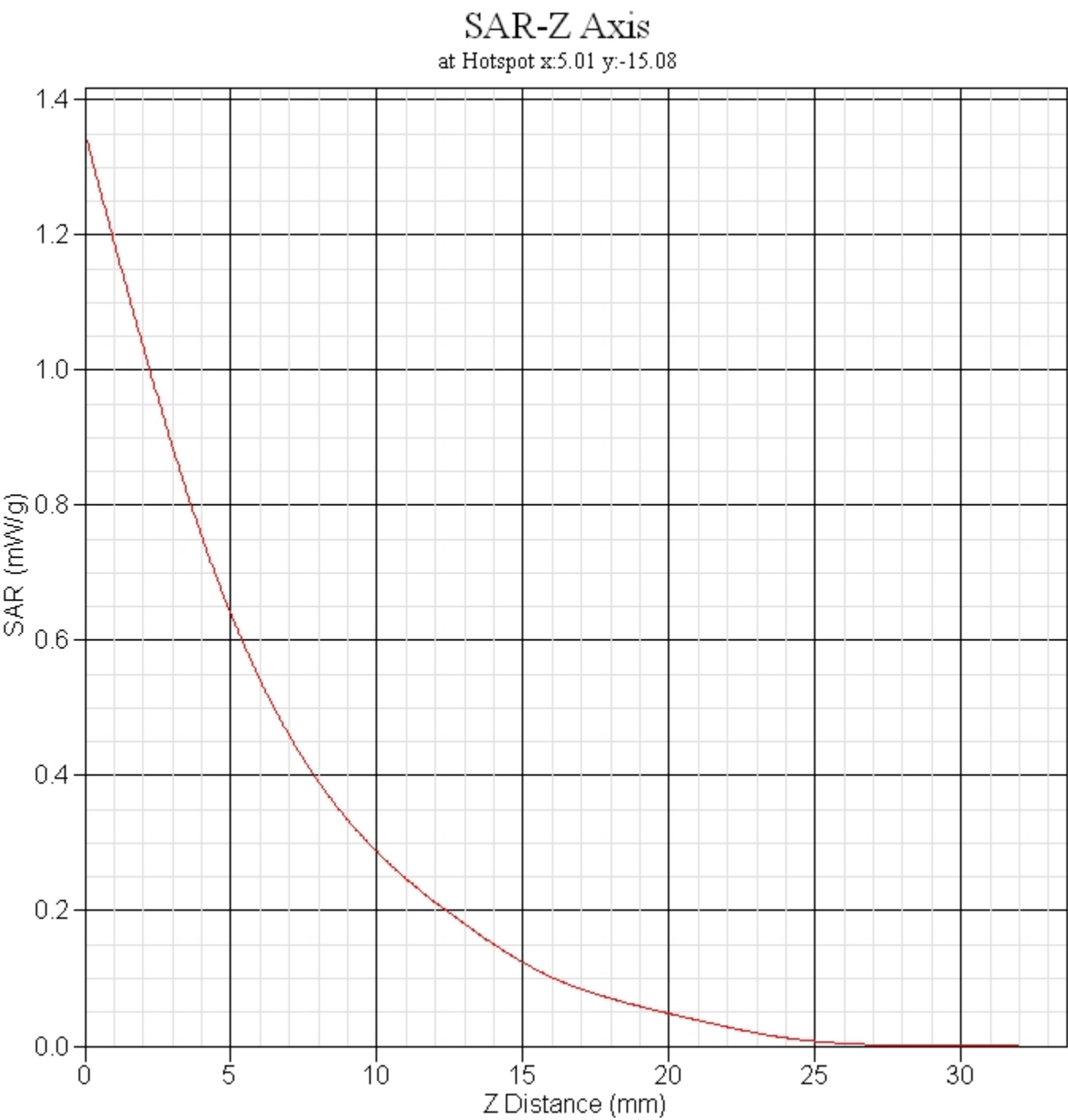


ALSAS-10U VER 2.3.8.90

1 gram SAR value : 0.640 W/kg
10 gram SAR value : 0.275 W/kg
Area Scan Peak SAR : 0.757 W/kg
Zoom Scan Peak SAR : 1.351 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	$\sqrt{3}$	$(1-cp)^{1/2}$	$(1-cp)^{1/2}$	1.5	1.5
Hemispherical Isotropy	10.9	rectangular	$\sqrt{3}$	\sqrt{cp}	\sqrt{cp}	4.4	4.4
Boundary Effect	1.0	rectangular	$\sqrt{3}$	1	1	0.6	0.6
Linearity	4.7	rectangular	$\sqrt{3}$	1	1	2.7	2.7
Detection Limit	1.0	rectangular	$\sqrt{3}$	1	1	0.6	0.6
Readout Electronics	1.0	normal	1	1	1	1.0	1.0
Response Time	0.8	rectangular	$\sqrt{3}$	1	1	0.5	0.5
Integration Time	1.7	rectangular	$\sqrt{3}$	1	1	1.0	1.0
RF Ambient Condition	3.0	rectangular	$\sqrt{3}$	1	1	1.7	1.7
Probe Positioner Mech.	0.4	rectangular	$\sqrt{3}$	1	1	0.2	0.2
Restriction							
Probe Positioning with respect to Phantom Shell	2.9	rectangular	$\sqrt{3}$	1	1	1.7	1.7
Extrapolation and Integration	3.7	rectangular	$\sqrt{3}$	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	5.3	rectangular	$\sqrt{3}$	1	1	3.1	3.1
Phantom and Setup							
Phantom Uncertainty(shape & thickness tolerance)	3.4	rectangular	$\sqrt{3}$	1	1	2.0	2.0
Liquid Conductivity(target)	5.0	rectangular	$\sqrt{3}$	0.7	0.5	2.0	1.4
Liquid Conductivity(meas.)	3.1	normal	1	0.7	0.5	2.2	1.5
Liquid Permittivity(target)	5.0	rectangular	$\sqrt{3}$	0.6	0.5	1.7	1.4
Liquid Permittivity(meas.)	8.9	normal	1	0.6	0.5	5.3	4.4
Combined Uncertainty		RSS				11.3	10.7
Combined Uncertainty (coverage factor=2)		Normal (k=2)				22.6	21.3



SAR Test Report (11g mode tip edge high)

Report Date : 16-Nov-2010
By Operator : 123
Measurement Date : 16-Nov-2010
Starting Time : 16-Nov-2010 04:41:45 PM
End Time : 16-Nov-2010 04:57:13 PM
Scanning Time : 928 secs

Product Data

Device Name : Computer
Serial No. : 123
Type : Std Form Cell Phone
Model : 123
Frequency : 2400.00 MHz
Max. Transmit Pwr : 1 W
Drift Time : 0 min(s)
Length : 255 mm
Width : 160 mm
Depth : 10 mm
Antenna Type : Internal
Orientation : Touch
Power Drift-Start : 0.500 W/kg
Power Drift-Finish: 0.503 W/kg
Power Drift (%) : 0.683
Picture :

Phantom Data

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

Tissue Data

Type : BODY
Serial No. : IAC Tissue - 2450
Frequency : 2450.00 MHz
Last Calib. Date : 15-May-2008
Temperature : 20.00 °C
Ambient Temp. : 20.00 °C
Humidity : 50.00 RH%
Epsilon : 48.01 F/m
Sigma : 1.89 S/m
Density : 1000.00 kg/cu. m

ALSAS-10U VER 2.3.8.90

Probe Data

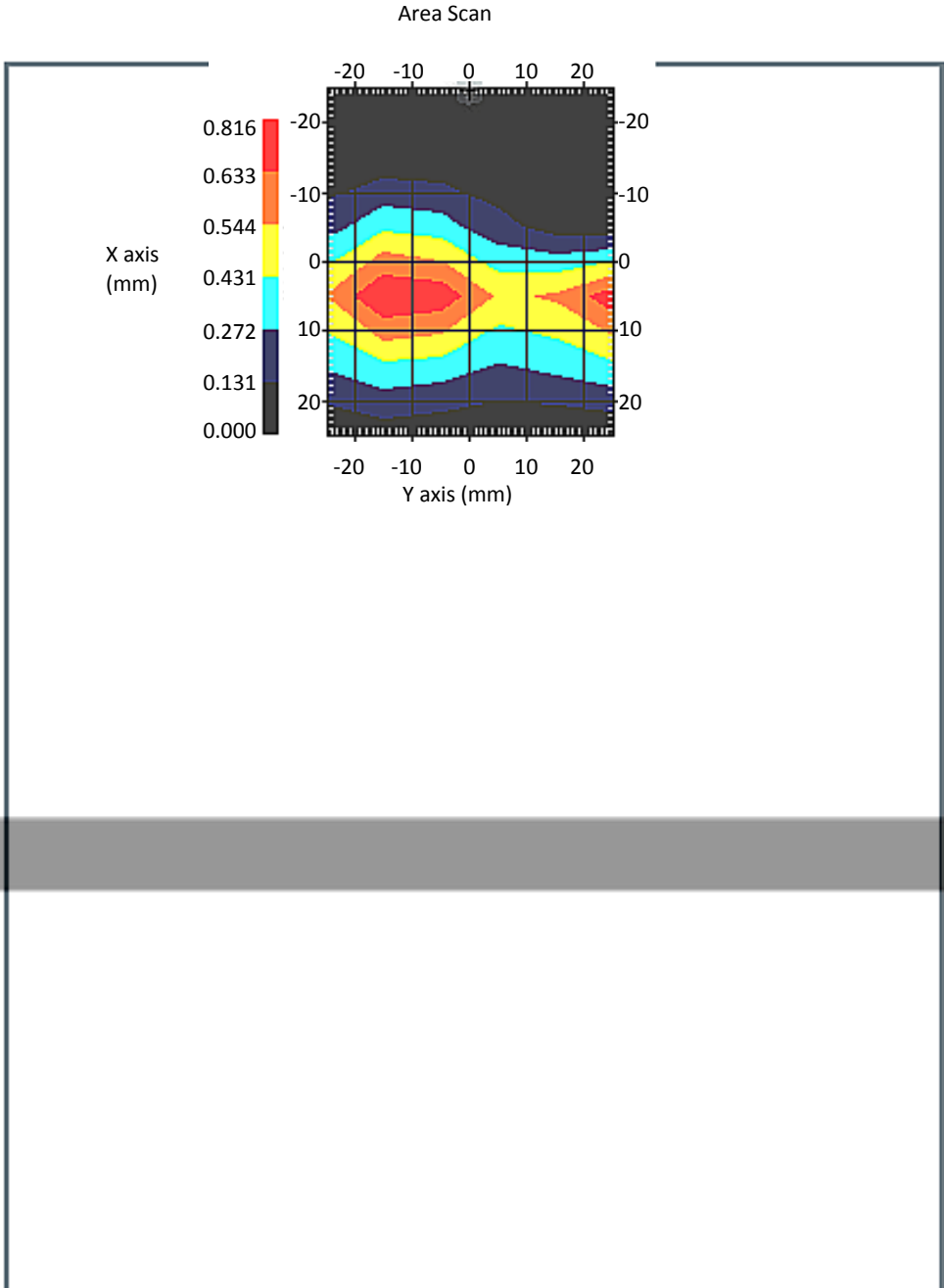
Name : IAC-273
Model : E020
Type : E-Field Triangle
Serial No. : 273
Last Calib. Date : 13-Sep-2010
Frequency : 2450.00 MHz
Duty Cycle Factor: 1
Conversion Factor: 3.6
Probe Sensitivity: 1.20 1.20 1.20 $\mu\text{V}/(\text{V}/\text{m})^2$
Compression Point: 95.00 mV
Offset : 1.56 mm

Measurement Data

Crest Factor : 1
Scan Type : Complete
Tissue Temp. : 20.00 °C
Ambient Temp. : 20.00 °C
Set-up Date : 16-Nov-2010
Set-up Time : 4:41:41 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 : Touch
Separation : 0
Channel : High

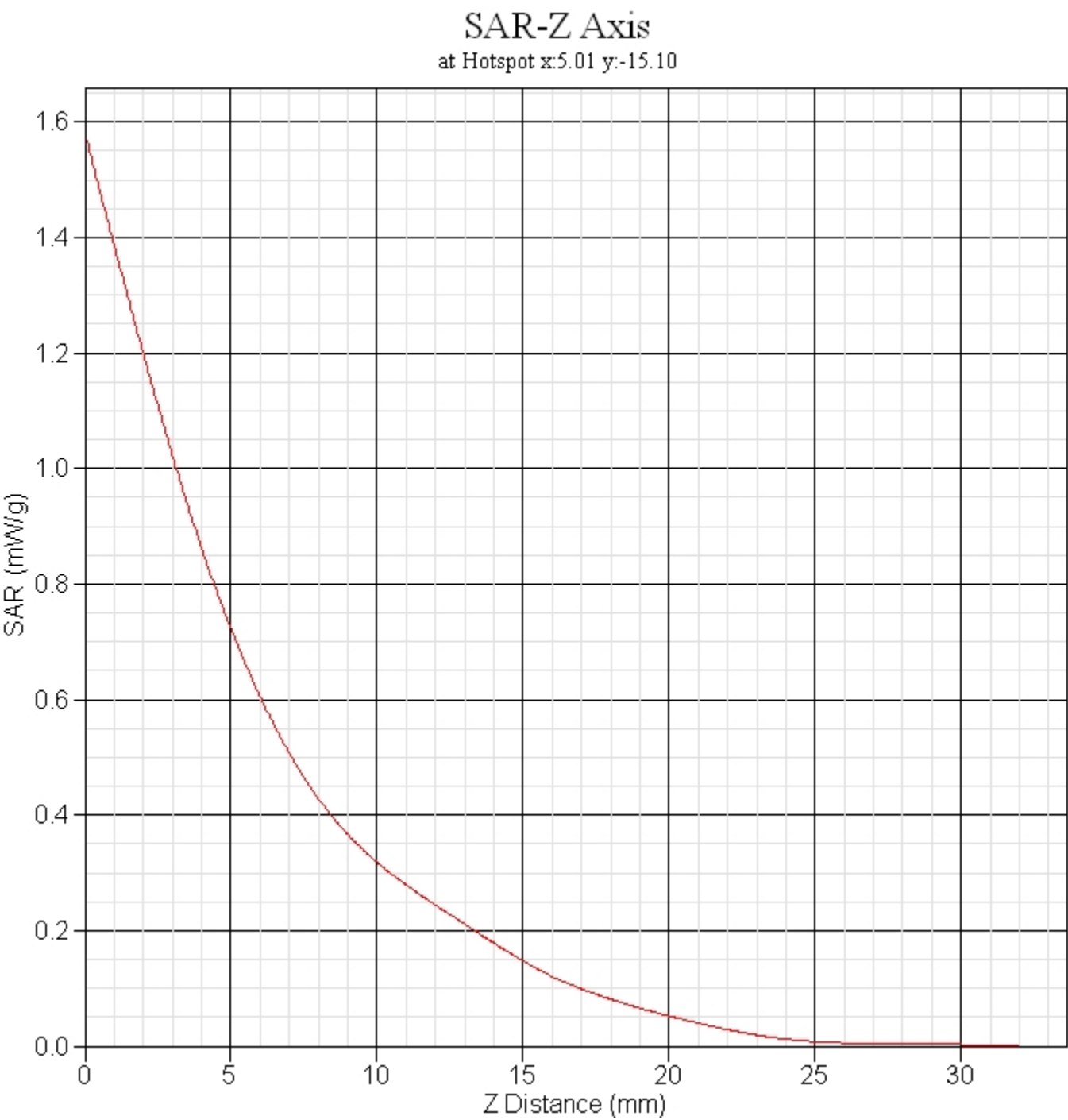


ALSAS-10U VER 2.3.8.90

1 gram SAR value : 0.716 W/kg
10 gram SAR value : 0.303 W/kg
Area Scan Peak SAR : 0.814 W/kg
Zoom Scan Peak SAR : 1.581 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	$\sqrt{3}$	$(1-cp)^{1/2}$	$(1-cp)^{1/2}$	1.5	1.5
Hemispherical Isotropy	10.9	rectangular	$\sqrt{3}$	\sqrt{cp}	\sqrt{cp}	4.4	4.4
Boundary Effect	1.0	rectangular	$\sqrt{3}$	1	1	0.6	0.6
Linearity	4.7	rectangular	$\sqrt{3}$	1	1	2.7	2.7
Detection Limit	1.0	rectangular	$\sqrt{3}$	1	1	0.6	0.6
Readout Electronics	1.0	normal	1	1	1	1.0	1.0
Response Time	0.8	rectangular	$\sqrt{3}$	1	1	0.5	0.5
Integration Time	1.7	rectangular	$\sqrt{3}$	1	1	1.0	1.0
RF Ambient Condition	3.0	rectangular	$\sqrt{3}$	1	1	1.7	1.7
Probe Positioner Mech.	0.4	rectangular	$\sqrt{3}$	1	1	0.2	0.2
Restriction							
Probe Positioning with respect to Phantom Shell	2.9	rectangular	$\sqrt{3}$	1	1	1.7	1.7
Extrapolation and Integration	3.7	rectangular	$\sqrt{3}$	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	0.7	rectangular	$\sqrt{3}$	1	1	0.4	0.4
Phantom and Setup							
Phantom Uncertainty(shape & thickness tolerance)	3.4	rectangular	$\sqrt{3}$	1	1	2.0	2.0
Liquid Conductivity(target)	5.0	rectangular	$\sqrt{3}$	0.7	0.5	2.0	1.4
Liquid Conductivity(meas.)	3.1	normal	1	0.7	0.5	2.2	1.5
Liquid Permittivity(target)	5.0	rectangular	$\sqrt{3}$	0.6	0.5	1.7	1.4
Liquid Permittivity(meas.)	8.9	normal	1	0.6	0.5	5.3	4.4
Combined Uncertainty		RSS				10.9	10.2
Combined Uncertainty (coverage factor=2)		Normal (k=2)				21.8	20.4



SAR Test Report (11n20 mode bottom low)

Report Date : 16-Nov-2010
By Operator : 123
Measurement Date : 16-Nov-2010
Starting Time : 16-Nov-2010 12:07:18 PM
End Time : 16-Nov-2010 12:23:13 PM
Scanning Time : 955 secs

Product Data

Device Name : Computer
Serial No. : 123
Type : Std Form Cell Phone
Model : 123
Frequency : 2400.00 MHz
Max. Transmit Pwr : 1 W
Drift Time : 0 min(s)
Length : 255 mm
Width : 160 mm
Depth : 10 mm
Antenna Type : Internal
Orientation : Touch
Power Drift-Start : 0.157 W/kg
Power Drift-Finish: 0.146 W/kg
Power Drift (%) : -7.101
Picture :

Phantom Data

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

Tissue Data

Type : BODY
Serial No. : IAC Tissue - 2450
Frequency : 2450.00 MHz
Last Calib. Date : 15-May-2008
Temperature : 20.00 °C
Ambient Temp. : 20.00 °C
Humidity : 50.00 RH%
Epsilon : 48.01 F/m
Sigma : 1.89 S/m
Density : 1000.00 kg/cu. m

ALSAS-10U VER 2.3.8.90

Probe Data

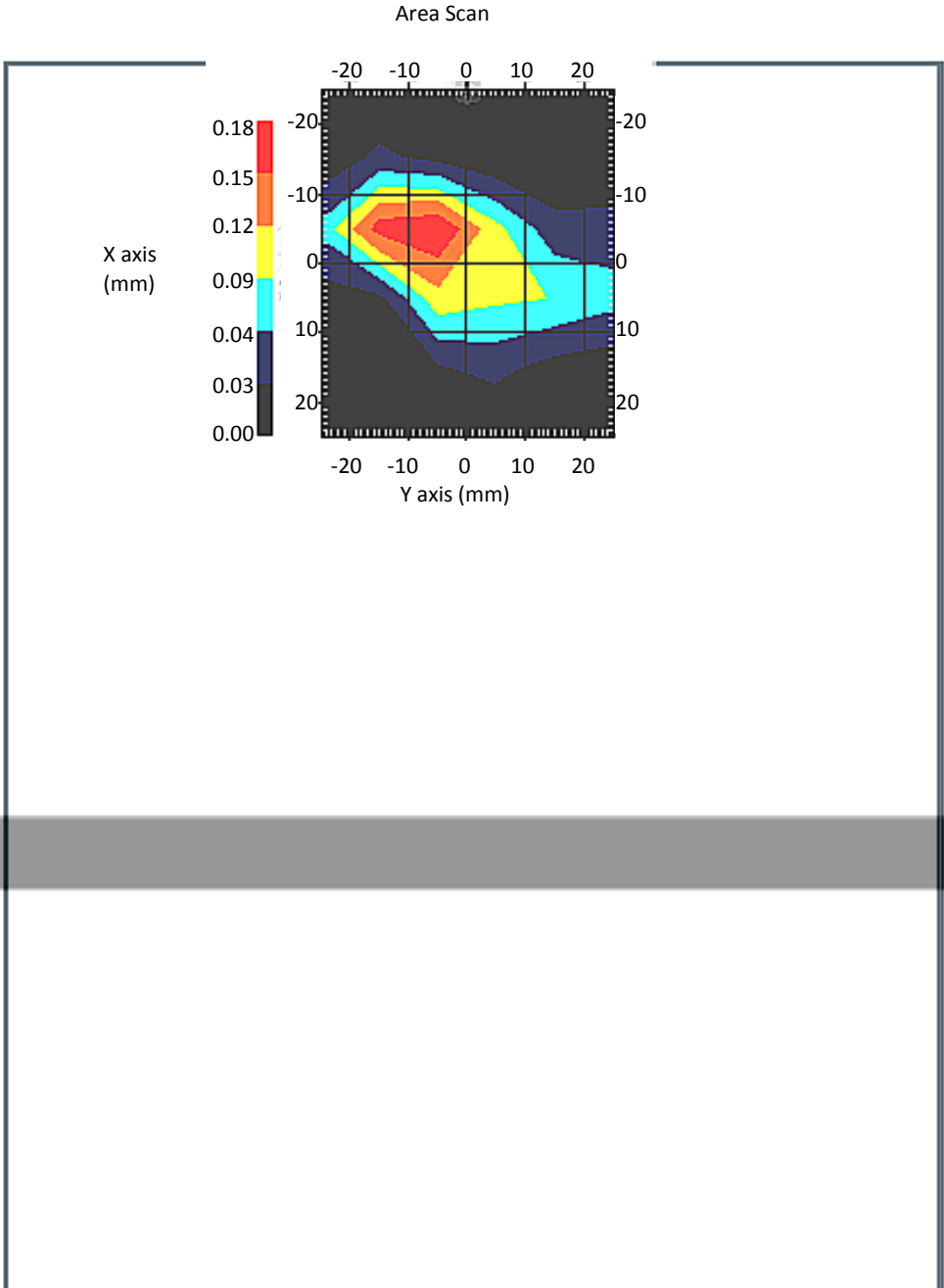
Name : IAC-273
Model : E020
Type : E-Field Triangle
Serial No. : 273
Last Calib. Date : 13-Sep-2010
Frequency : 2450.00 MHz
Duty Cycle Factor: 1
Conversion Factor: 3.6
Probe Sensitivity: 1.20 1.20 1.20 $\mu\text{V}/(\text{V}/\text{m})^2$
Compression Point: 95.00 mV
Offset : 1.56 mm

Measurement Data

Crest Factor : 1
Scan Type : Complete
Tissue Temp. : 20.00 °C
Ambient Temp. : 20.00 °C
Set-up Date : 16-Nov-2010
Set-up Time : 12:07:14 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 : Touch
Separation : 0
Channel : Low

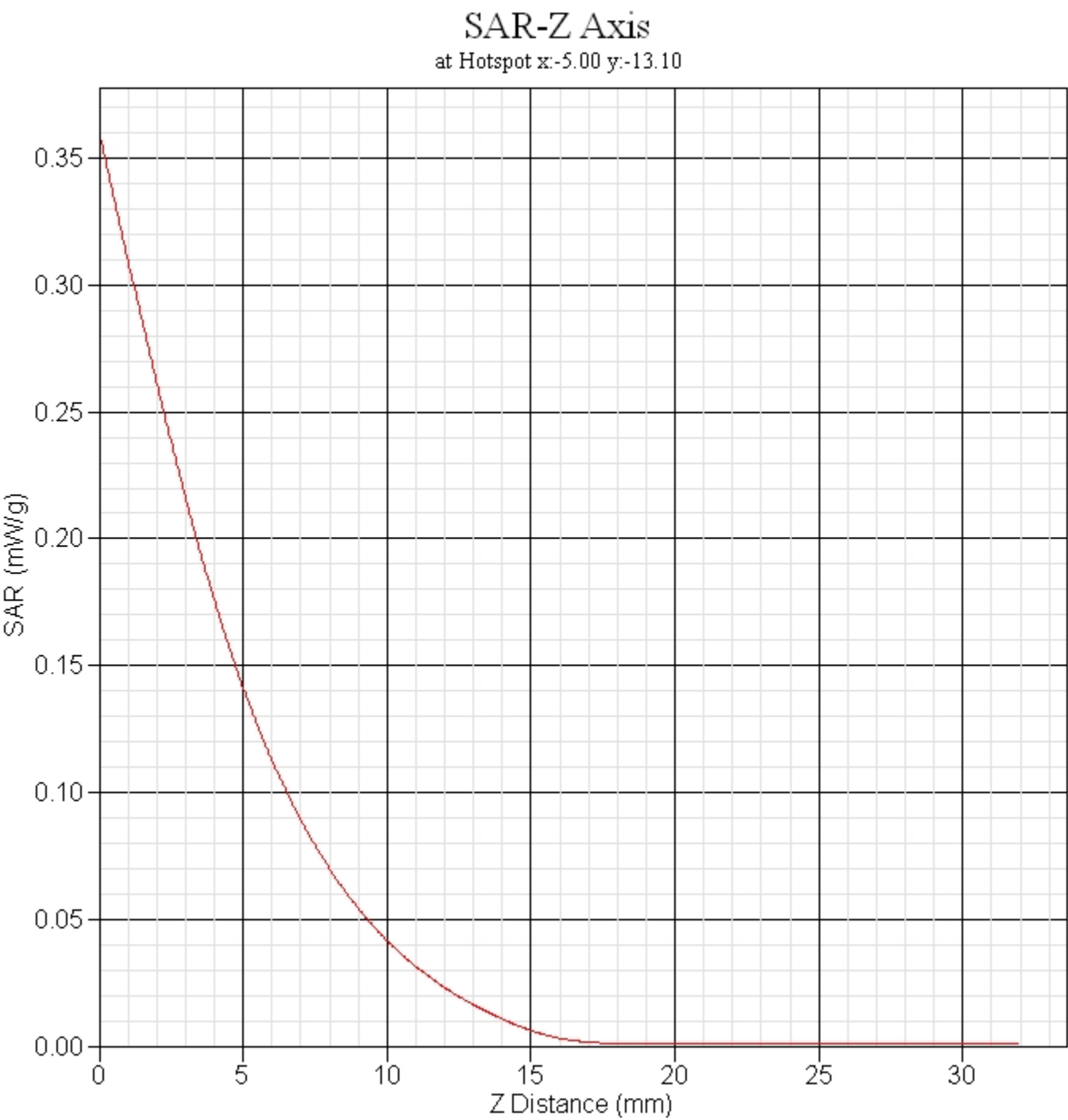


ALSAS-10U VER 2.3.8.90

1 gram SAR value : 0.140 W/kg
10 gram SAR value : 0.048 W/kg
Area Scan Peak SAR : 0.179 W/kg
Zoom Scan Peak SAR : 0.360 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	$\sqrt{3}$	$(1-cp)^{1/2}$	$(1-cp)^{1/2}$	1.5	1.5
Hemispherical Isotropy	10.9	rectangular	$\sqrt{3}$	\sqrt{cp}	\sqrt{cp}	4.4	4.4
Boundary Effect	1.0	rectangular	$\sqrt{3}$	1	1	0.6	0.6
Linearity	4.7	rectangular	$\sqrt{3}$	1	1	2.7	2.7
Detection Limit	1.0	rectangular	$\sqrt{3}$	1	1	0.6	0.6
Readout Electronics	1.0	normal	1	1	1	1.0	1.0
Response Time	0.8	rectangular	$\sqrt{3}$	1	1	0.5	0.5
Integration Time	1.7	rectangular	$\sqrt{3}$	1	1	1.0	1.0
RF Ambient Condition	3.0	rectangular	$\sqrt{3}$	1	1	1.7	1.7
Probe Positioner Mech.	0.4	rectangular	$\sqrt{3}$	1	1	0.2	0.2
Restriction							
Probe Positioning with respect to Phantom Shell	2.9	rectangular	$\sqrt{3}$	1	1	1.7	1.7
Extrapolation and Integration	3.7	rectangular	$\sqrt{3}$	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	7.1	rectangular	$\sqrt{3}$	1	1	4.1	4.1
Phantom and Setup							
Phantom Uncertainty(shape & thickness tolerance)	3.4	rectangular	$\sqrt{3}$	1	1	2.0	2.0
Liquid Conductivity(target)	5.0	rectangular	$\sqrt{3}$	0.7	0.5	2.0	1.4
Liquid Conductivity(meas.)	3.1	normal	1	0.7	0.5	2.2	1.5
Liquid Permittivity(target)	5.0	rectangular	$\sqrt{3}$	0.6	0.5	1.7	1.4
Liquid Permittivity(meas.)	8.9	normal	1	0.6	0.5	5.3	4.4
Combined Uncertainty		RSS				11.6	11.0
Combined Uncertainty (coverage factor=2)		Normal (k=2)				23.2	22.0



SAR Test Report (11n20 mode bottom mid)

Report Date : 16-Nov-2010
By Operator : 123
Measurement Date : 16-Nov-2010
Starting Time : 16-Nov-2010 12:32:54 PM
End Time : 16-Nov-2010 12:48:40 PM
Scanning Time : 946 secs

Product Data

Device Name : Computer
Serial No. : 123
Type : Std Form Cell Phone
Model : 123
Frequency : 2400.00 MHz
Max. Transmit Pwr : 1 W
Drift Time : 0 min(s)
Length : 255 mm
Width : 160 mm
Depth : 10 mm
Antenna Type : Internal
Orientation : Touch
Power Drift-Start : 0.221 W/kg
Power Drift-Finish: 0.224 W/kg
Power Drift (%) : 1.554
Picture :

Phantom Data

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

Tissue Data

Type : BODY
Serial No. : IAC Tissue - 2450
Frequency : 2450.00 MHz
Last Calib. Date : 15-May-2008
Temperature : 20.00 °C
Ambient Temp. : 20.00 °C
Humidity : 50.00 RH%
Epsilon : 48.01 F/m
Sigma : 1.89 S/m
Density : 1000.00 kg/cu. m

ALSAS-10U VER 2.3.8.90

Probe Data

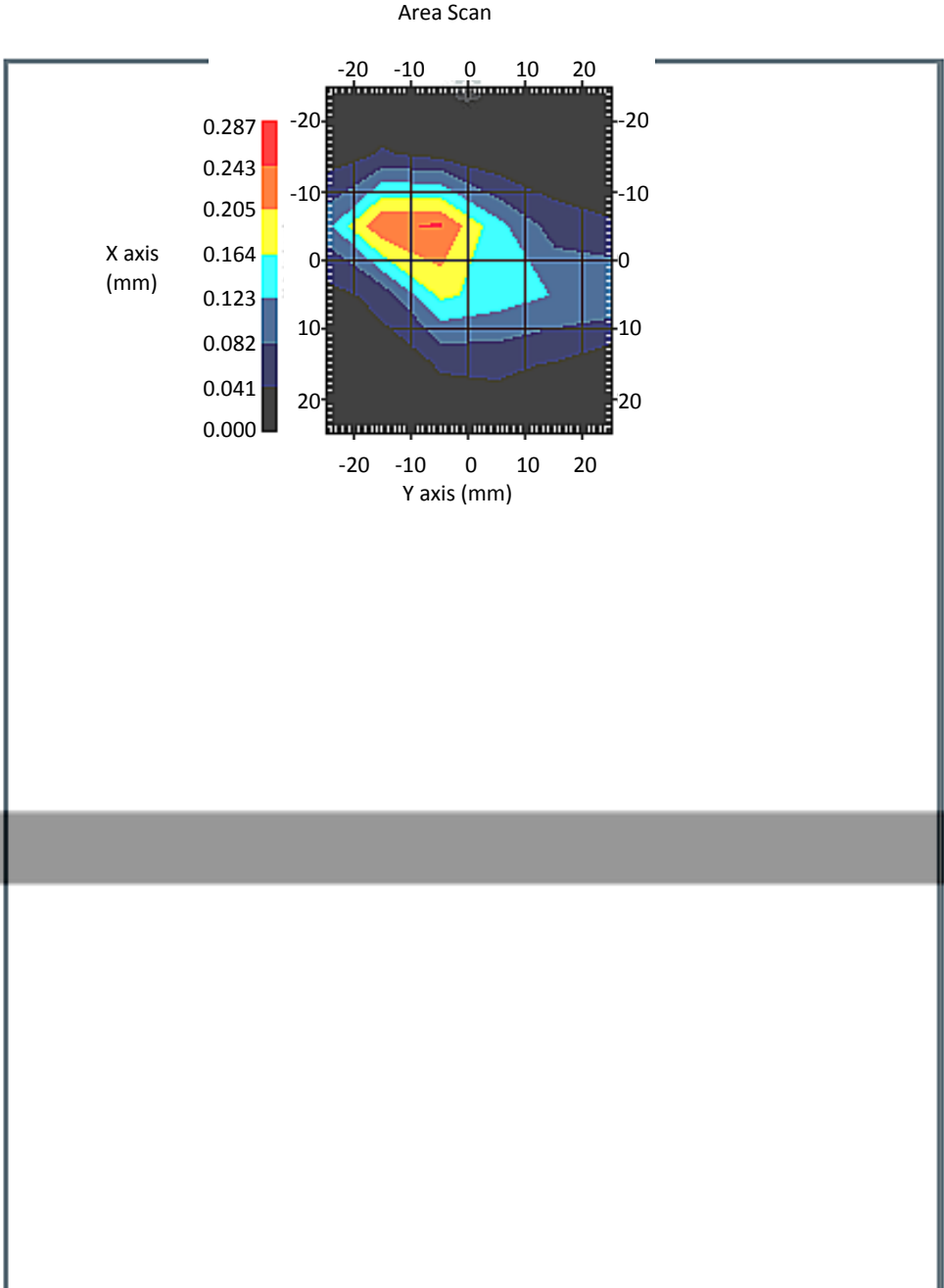
Name : IAC-273
Model : E020
Type : E-Field Triangle
Serial No. : 273
Last Calib. Date : 13-Sep-2010
Frequency : 2450.00 MHz
Duty Cycle Factor: 1
Conversion Factor: 3.6
Probe Sensitivity: 1.20 1.20 1.20 $\mu\text{V}/(\text{V}/\text{m})^2$
Compression Point: 95.00 mV
Offset : 1.56 mm

Measurement Data

Crest Factor : 1
Scan Type : Complete
Tissue Temp. : 20.00 °C
Ambient Temp. : 20.00 °C
Set-up Date : 16-Nov-2010
Set-up Time : 12:32:49 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 : Touch
Separation : 0
Channel : Mid

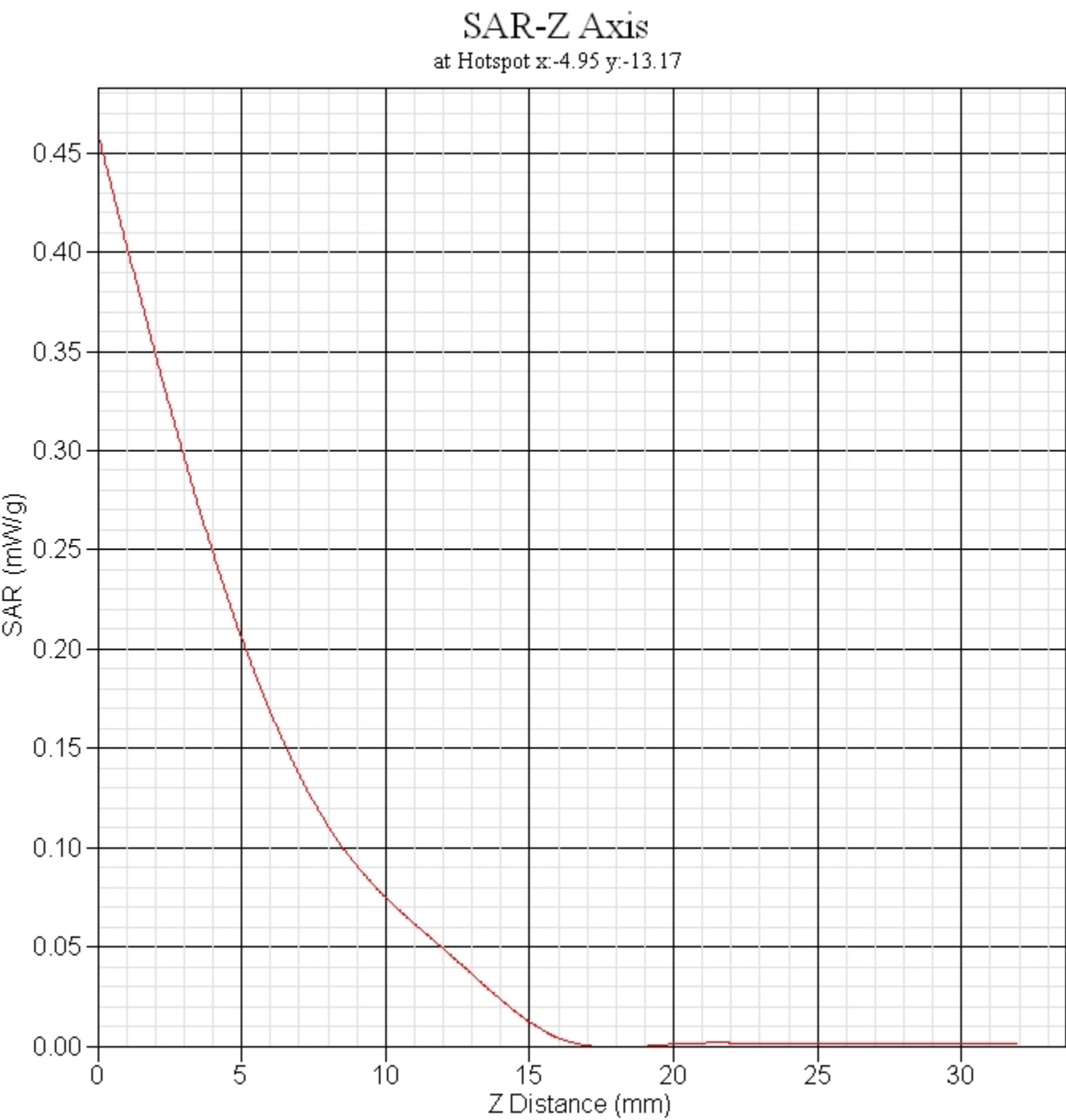


ALSAS-10U VER 2.3.8.90

1 gram SAR value : 0.189 W/kg
10 gram SAR value : 0.067 W/kg
Area Scan Peak SAR : 0.248 W/kg
Zoom Scan Peak SAR : 0.460 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	$\sqrt{3}$	$(1-cp)^{1/2}$	$(1-cp)^{1/2}$	1.5	1.5
Hemispherical Isotropy	10.9	rectangular	$\sqrt{3}$	\sqrt{cp}	\sqrt{cp}	4.4	4.4
Boundary Effect	1.0	rectangular	$\sqrt{3}$	1	1	0.6	0.6
Linearity	4.7	rectangular	$\sqrt{3}$	1	1	2.7	2.7
Detection Limit	1.0	rectangular	$\sqrt{3}$	1	1	0.6	0.6
Readout Electronics	1.0	normal	1	1	1	1.0	1.0
Response Time	0.8	rectangular	$\sqrt{3}$	1	1	0.5	0.5
Integration Time	1.7	rectangular	$\sqrt{3}$	1	1	1.0	1.0
RF Ambient Condition	3.0	rectangular	$\sqrt{3}$	1	1	1.7	1.7
Probe Positioner Mech.	0.4	rectangular	$\sqrt{3}$	1	1	0.2	0.2
Restriction							
Probe Positioning with respect to Phantom Shell	2.9	rectangular	$\sqrt{3}$	1	1	1.7	1.7
Extrapolation and Integration	3.7	rectangular	$\sqrt{3}$	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	1.6	rectangular	$\sqrt{3}$	1	1	0.9	0.9
Phantom and Setup							
Phantom Uncertainty(shape & thickness tolerance)	3.4	rectangular	$\sqrt{3}$	1	1	2.0	2.0
Liquid Conductivity(target)	5.0	rectangular	$\sqrt{3}$	0.7	0.5	2.0	1.4
Liquid Conductivity(meas.)	3.1	normal	1	0.7	0.5	2.2	1.5
Liquid Permittivity(target)	5.0	rectangular	$\sqrt{3}$	0.6	0.5	1.7	1.4
Liquid Permittivity(meas.)	8.9	normal	1	0.6	0.5	5.3	4.4
Combined Uncertainty		RSS				10.9	10.2
Combined Uncertainty (coverage factor=2)		Normal (k=2)				21.8	20.5



SAR Test Report (11n20 mode bottom high)

Report Date : 16-Nov-2010
By Operator : 123
Measurement Date : 16-Nov-2010
Starting Time : 16-Nov-2010 01:02:51 PM
End Time : 16-Nov-2010 01:18:07 PM
Scanning Time : 916 secs

Product Data

Device Name : Computer
Serial No. : 123
Type : Std Form Cell Phone
Model : 123
Frequency : 2400.00 MHz
Max. Transmit Pwr : 1 W
Drift Time : 0 min(s)
Length : 255 mm
Width : 160 mm
Depth : 10 mm
Antenna Type : Internal
Orientation : Touch
Power Drift-Start : 0.230 W/kg
Power Drift-Finish: 0.275 W/kg
Power Drift (%) : 1.546
Picture :

Phantom Data

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

Tissue Data

Type : BODY
Serial No. : IAC Tissue - 2450
Frequency : 2450.00 MHz
Last Calib. Date : 15-May-2008
Temperature : 20.00 °C
Ambient Temp. : 20.00 °C
Humidity : 50.00 RH%
Epsilon : 48.01 F/m
Sigma : 1.89 S/m
Density : 1000.00 kg/cu. m

ALSAS-10U VER 2.3.8.90

Probe Data

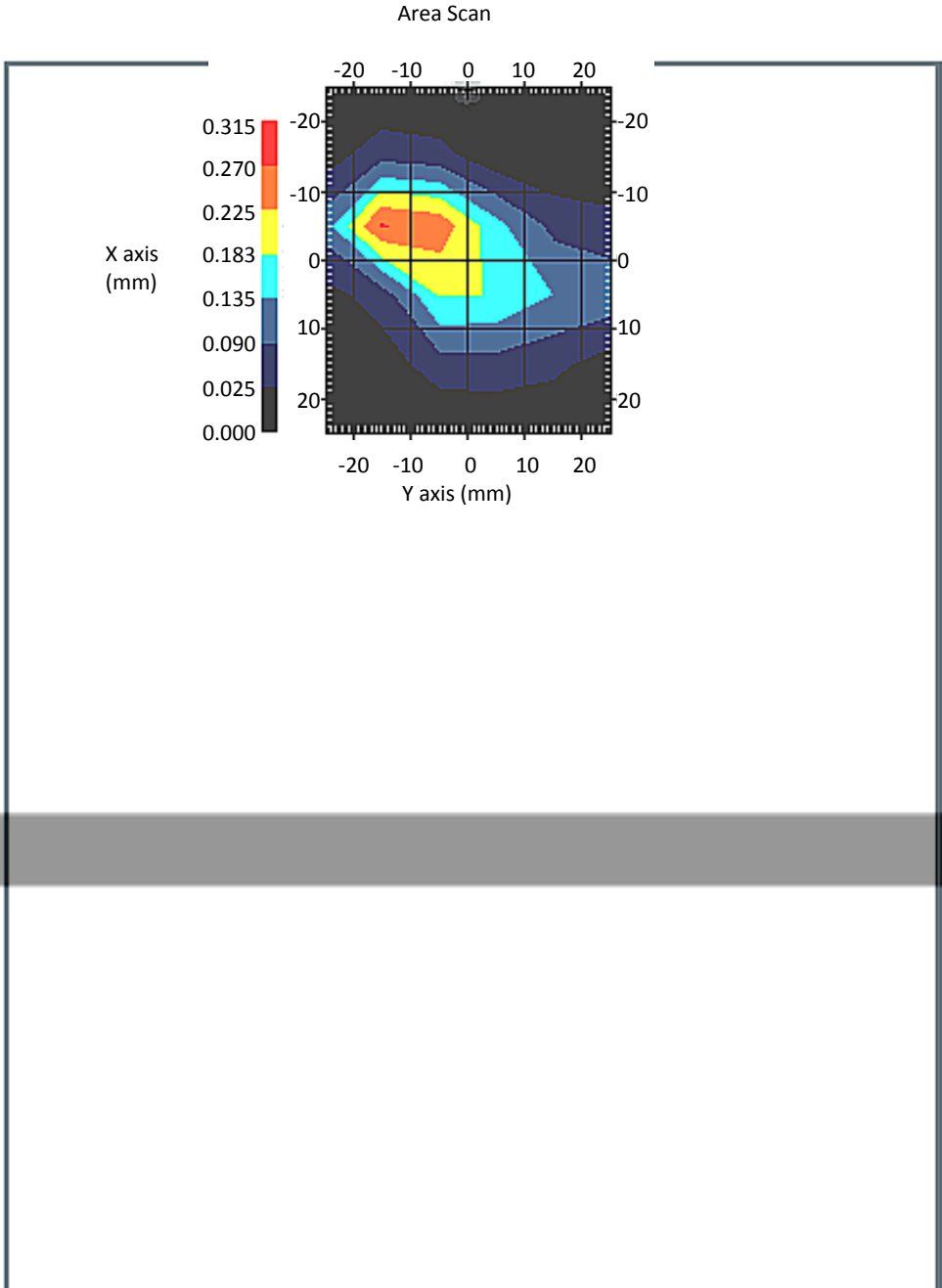
Name : IAC-273
Model : E020
Type : E-Field Triangle
Serial No. : 273
Last Calib. Date : 13-Sep-2010
Frequency : 2450.00 MHz
Duty Cycle Factor: 1
Conversion Factor: 3.6
Probe Sensitivity: 1.20 1.20 1.20 $\mu\text{V}/(\text{V}/\text{m})^2$
Compression Point: 95.00 mV
Offset : 1.56 mm

Measurement Data

Crest Factor : 1
Scan Type : Complete
Tissue Temp. : 20.00 °C
Ambient Temp. : 20.00 °C
Set-up Date : 16-Nov-2010
Set-up Time : 1:02:45 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 : Touch
Separation : 0
Channel : High

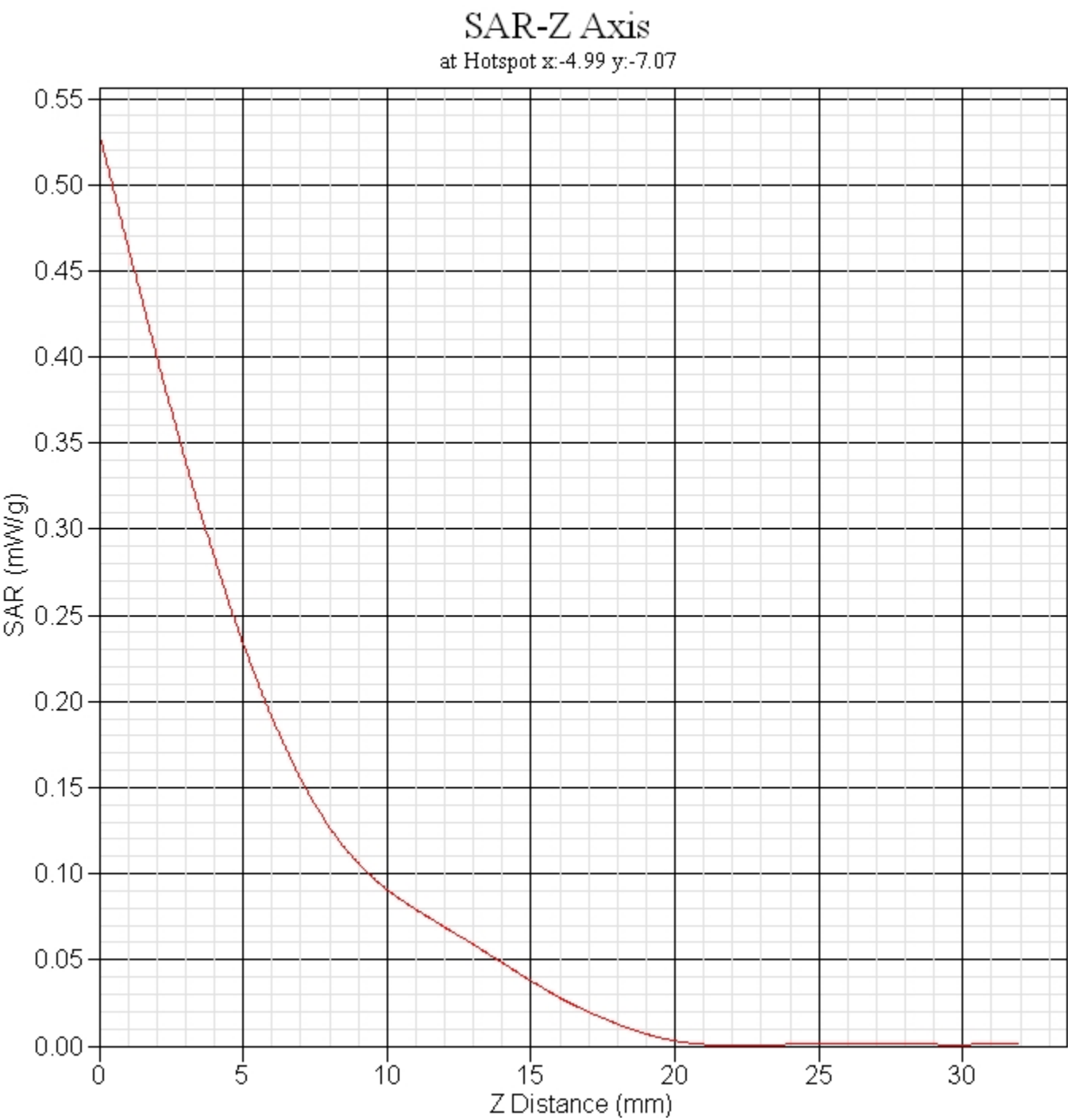


ALSAS-10U VER 2.3.8.90

1 gram SAR value : 0.227 W/kg
10 gram SAR value : 0.084 W/kg
Area Scan Peak SAR : 0.272 W/kg
Zoom Scan Peak SAR : 0.530 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	$\sqrt{3}$	$(1-cp)^{1/2}$	$(1-cp)^{1/2}$	1.5	1.5
Hemispherical Isotropy	10.9	rectangular	$\sqrt{3}$	\sqrt{cp}	\sqrt{cp}	4.4	4.4
Boundary Effect	1.0	rectangular	$\sqrt{3}$	1	1	0.6	0.6
Linearity	4.7	rectangular	$\sqrt{3}$	1	1	2.7	2.7
Detection Limit	1.0	rectangular	$\sqrt{3}$	1	1	0.6	0.6
Readout Electronics	1.0	normal	1	1	1	1.0	1.0
Response Time	0.8	rectangular	$\sqrt{3}$	1	1	0.5	0.5
Integration Time	1.7	rectangular	$\sqrt{3}$	1	1	1.0	1.0
RF Ambient Condition	3.0	rectangular	$\sqrt{3}$	1	1	1.7	1.7
Probe Positioner Mech.	0.4	rectangular	$\sqrt{3}$	1	1	0.2	0.2
Restriction							
Probe Positioning with respect to Phantom Shell	2.9	rectangular	$\sqrt{3}$	1	1	1.7	1.7
Extrapolation and Integration	3.7	rectangular	$\sqrt{3}$	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	19.5	rectangular	$\sqrt{3}$	1	1	11.3	11.3
Phantom and Setup							
Phantom Uncertainty(shape & thickness tolerance)	3.4	rectangular	$\sqrt{3}$	1	1	2.0	2.0
Liquid Conductivity(target)	5.0	rectangular	$\sqrt{3}$	0.7	0.5	2.0	1.4
Liquid Conductivity(meas.)	3.1	normal	1	0.7	0.5	2.2	1.5
Liquid Permittivity(target)	5.0	rectangular	$\sqrt{3}$	0.6	0.5	1.7	1.4
Liquid Permittivity(meas.)	8.9	normal	1	0.6	0.5	5.3	4.4
Combined Uncertainty		RSS				15.7	15.2
Combined Uncertainty (coverage factor=2)		Normal (k=2)				31.4	30.4



SAR Test Report (11n20 mode tip edge low)

Report Date : 16-Nov-2010
By Operator : 123
Measurement Date : 16-Nov-2010
Starting Time : 16-Nov-2010 03:35:11 PM
End Time : 16-Nov-2010 03:51:23 PM
Scanning Time : 972 secs

Product Data

Device Name : Computer
Serial No. : 123
Type : Std Form Cell Phone
Model : 123
Frequency : 2400.00 MHz
Max. Transmit Pwr : 1 W
Drift Time : 0 min(s)
Length : 255 mm
Width : 160 mm
Depth : 10 mm
Antenna Type : Internal
Orientation : Touch
Power Drift-Start : 0.162 W/kg
Power Drift-Finish: 0.157 W/kg
Power Drift (%) : -3.266
Picture :

Phantom Data

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

Tissue Data

Type : BODY
Serial No. : IAC Tissue - 2450
Frequency : 2450.00 MHz
Last Calib. Date : 15-May-2008
Temperature : 20.00 °C
Ambient Temp. : 20.00 °C
Humidity : 50.00 RH%
Epsilon : 48.01 F/m
Sigma : 1.89 S/m
Density : 1000.00 kg/cu. m

ALSAS-10U VER 2.3.8.90

Probe Data

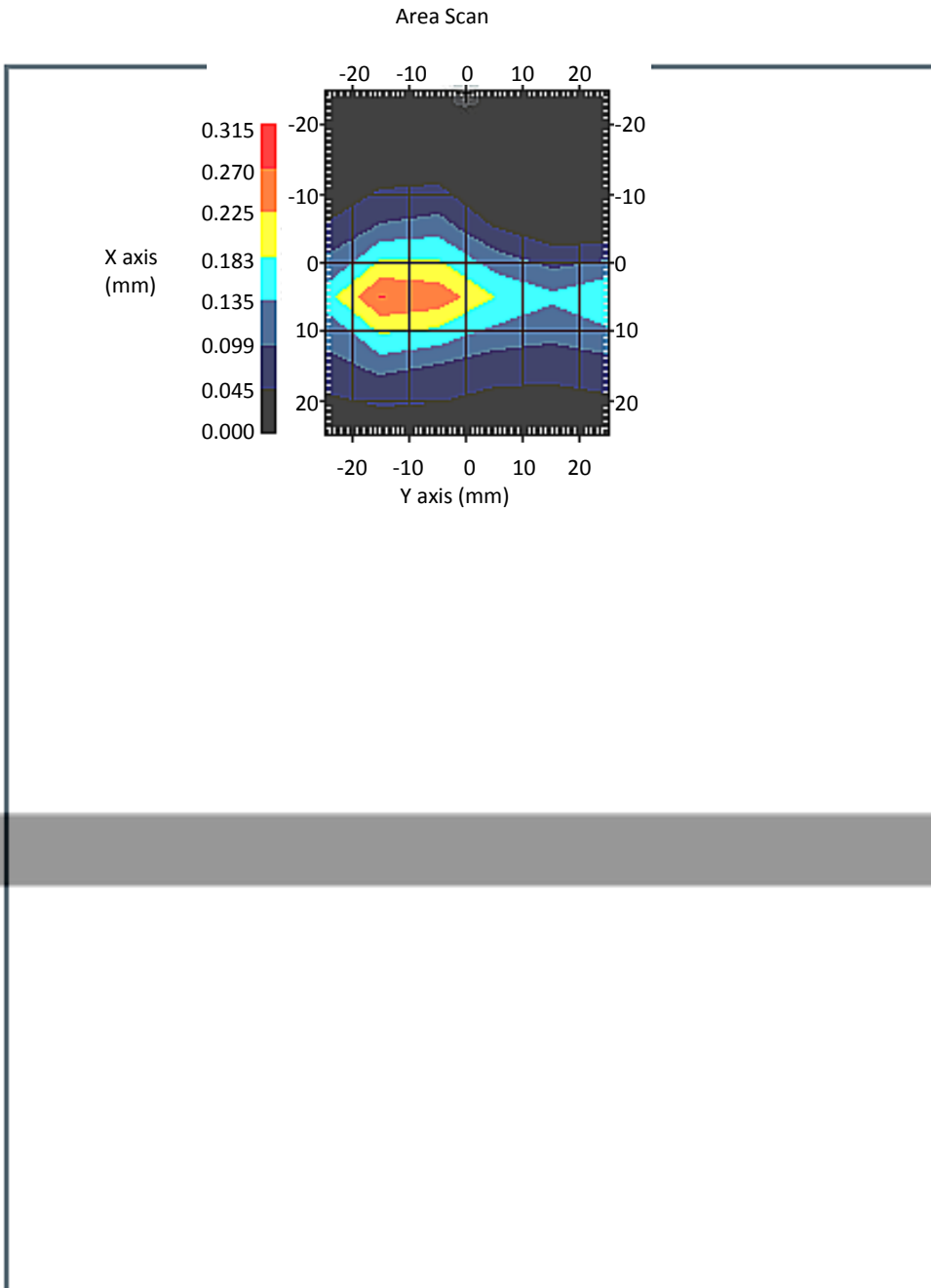
Name : IAC-273
Model : E020
Type : E-Field Triangle
Serial No. : 273
Last Calib. Date : 13-Sep-2010
Frequency : 2450.00 MHz
Duty Cycle Factor: 1
Conversion Factor: 3.6
Probe Sensitivity: 1.20 1.20 1.20 $\mu\text{V}/(\text{V}/\text{m})^2$
Compression Point: 95.00 mV
Offset : 1.56 mm

Measurement Data

Crest Factor : 1
Scan Type : Complete
Tissue Temp. : 20.00 °C
Ambient Temp. : 20.00 °C
Set-up Date : 16-Nov-2010
Set-up Time : 3:35:07 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 : Touch
Separation : 0
Channel : Low

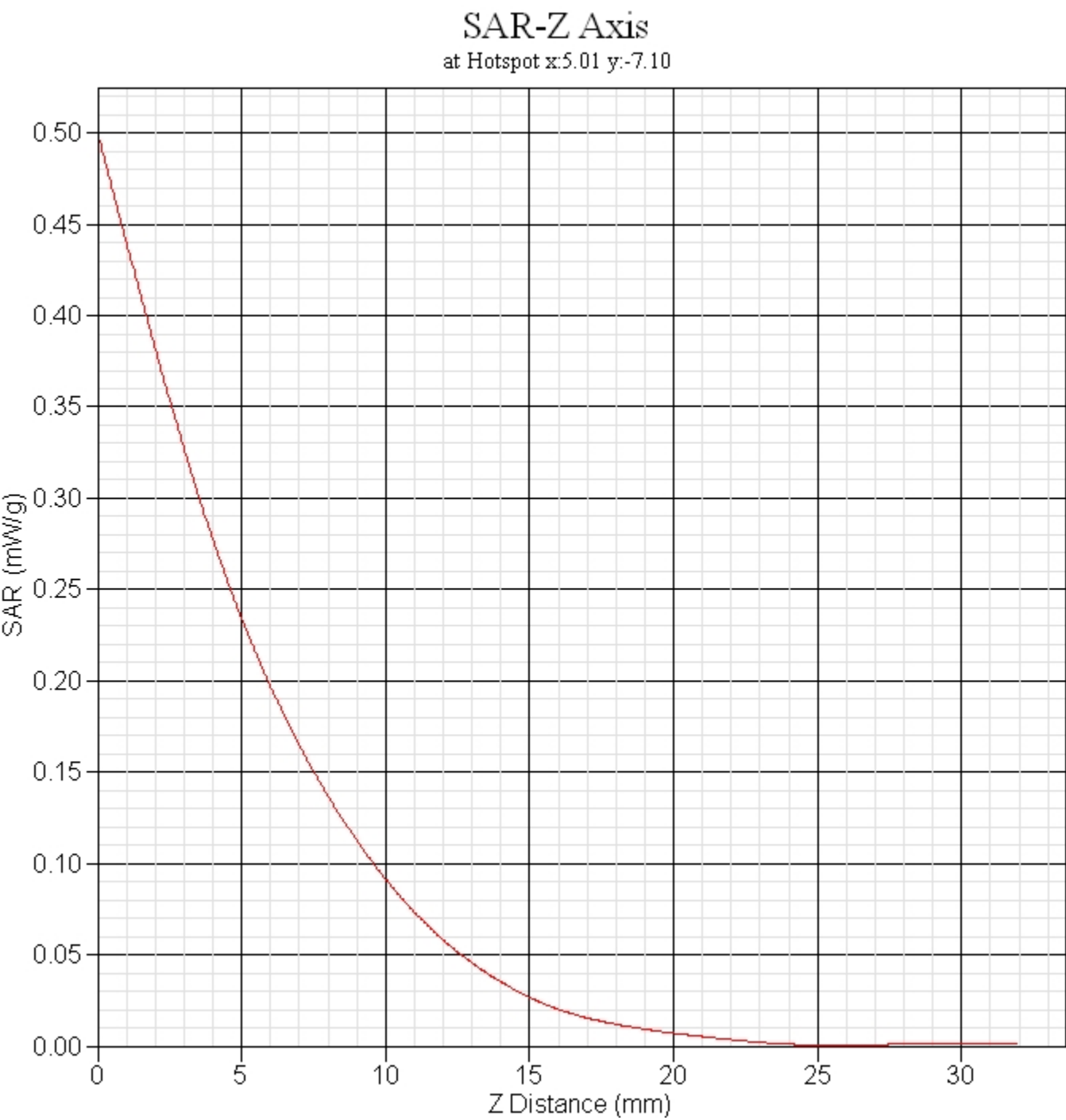


ALSAS-10U VER 2.3.8.90

1 gram SAR value : 0.229 W/kg
10 gram SAR value : 0.085 W/kg
Area Scan Peak SAR : 0.271 W/kg
Zoom Scan Peak SAR : 0.500 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	$\sqrt{3}$	$(1-cp)^{1/2}$	$(1-cp)^{1/2}$	1.5	1.5
Hemispherical Isotropy	10.9	rectangular	$\sqrt{3}$	\sqrt{cp}	\sqrt{cp}	4.4	4.4
Boundary Effect	1.0	rectangular	$\sqrt{3}$	1	1	0.6	0.6
Linearity	4.7	rectangular	$\sqrt{3}$	1	1	2.7	2.7
Detection Limit	1.0	rectangular	$\sqrt{3}$	1	1	0.6	0.6
Readout Electronics	1.0	normal	1	1	1	1.0	1.0
Response Time	0.8	rectangular	$\sqrt{3}$	1	1	0.5	0.5
Integration Time	1.7	rectangular	$\sqrt{3}$	1	1	1.0	1.0
RF Ambient Condition	3.0	rectangular	$\sqrt{3}$	1	1	1.7	1.7
Probe Positioner Mech.	0.4	rectangular	$\sqrt{3}$	1	1	0.2	0.2
Restriction							
Probe Positioning with respect to Phantom Shell	2.9	rectangular	$\sqrt{3}$	1	1	1.7	1.7
Extrapolation and Integration	3.7	rectangular	$\sqrt{3}$	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	3.3	rectangular	$\sqrt{3}$	1	1	1.9	1.9
Phantom and Setup							
Phantom Uncertainty(shape & thickness tolerance)	3.4	rectangular	$\sqrt{3}$	1	1	2.0	2.0
Liquid Conductivity(target)	5.0	rectangular	$\sqrt{3}$	0.7	0.5	2.0	1.4
Liquid Conductivity(meas.)	3.1	normal	1	0.7	0.5	2.2	1.5
Liquid Permittivity(target)	5.0	rectangular	$\sqrt{3}$	0.6	0.5	1.7	1.4
Liquid Permittivity(meas.)	8.9	normal	1	0.6	0.5	5.3	4.4
Combined Uncertainty		RSS				11.0	10.4
Combined Uncertainty (coverage factor=2)		Normal (k=2)				22.1	20.7



SAR Test Report (11n20 mode tip edge mid)

Report Date : 16-Nov-2010
By Operator : 123
Measurement Date : 16-Nov-2010
Starting Time : 16-Nov-2010 02:54:01 PM
End Time : 16-Nov-2010 03:09:16 PM
Scanning Time : 915 secs

Product Data

Device Name : Computer
Serial No. : 123
Type : Std Form Cell Phone
Model : 123
Frequency : 2400.00 MHz
Max. Transmit Pwr : 1 W
Drift Time : 0 min(s)
Length : 255 mm
Width : 160 mm
Depth : 10 mm
Antenna Type : Internal
Orientation : Touch
Power Drift-Start : 0.164 W/kg
Power Drift-Finish: 0.173 W/kg
Power Drift (%) : 5.767
Picture :

Phantom Data

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

Tissue Data

Type : BODY
Serial No. : IAC Tissue - 2450
Frequency : 2450.00 MHz
Last Calib. Date : 15-May-2008
Temperature : 20.00 °C
Ambient Temp. : 20.00 °C
Humidity : 50.00 RH%
Epsilon : 48.01 F/m
Sigma : 1.89 S/m
Density : 1000.00 kg/cu. m

ALSAS-10U VER 2.3.8.90

Probe Data

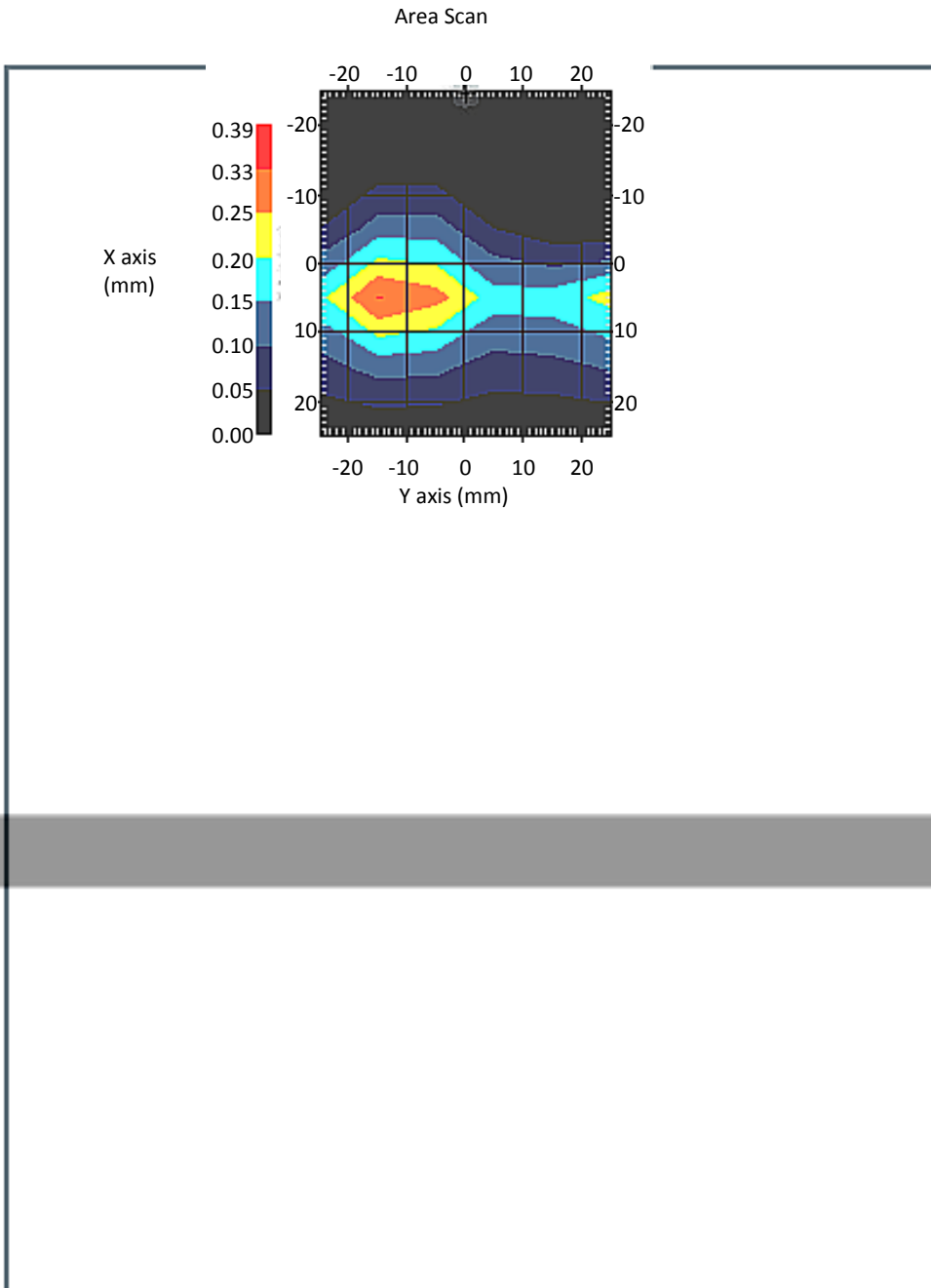
Name : IAC-273
Model : E020
Type : E-Field Triangle
Serial No. : 273
Last Calib. Date : 13-Sep-2010
Frequency : 2450.00 MHz
Duty Cycle Factor: 1
Conversion Factor: 3.6
Probe Sensitivity: 1.20 1.20 1.20 $\mu\text{V}/(\text{V}/\text{m})^2$
Compression Point: 95.00 mV
Offset : 1.56 mm

Measurement Data

Crest Factor : 1
Scan Type : Complete
Tissue Temp. : 20.00 °C
Ambient Temp. : 20.00 °C
Set-up Date : 16-Nov-2010
Set-up Time : 2:53:54 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 : Touch
Separation : 0
Channel : Mid

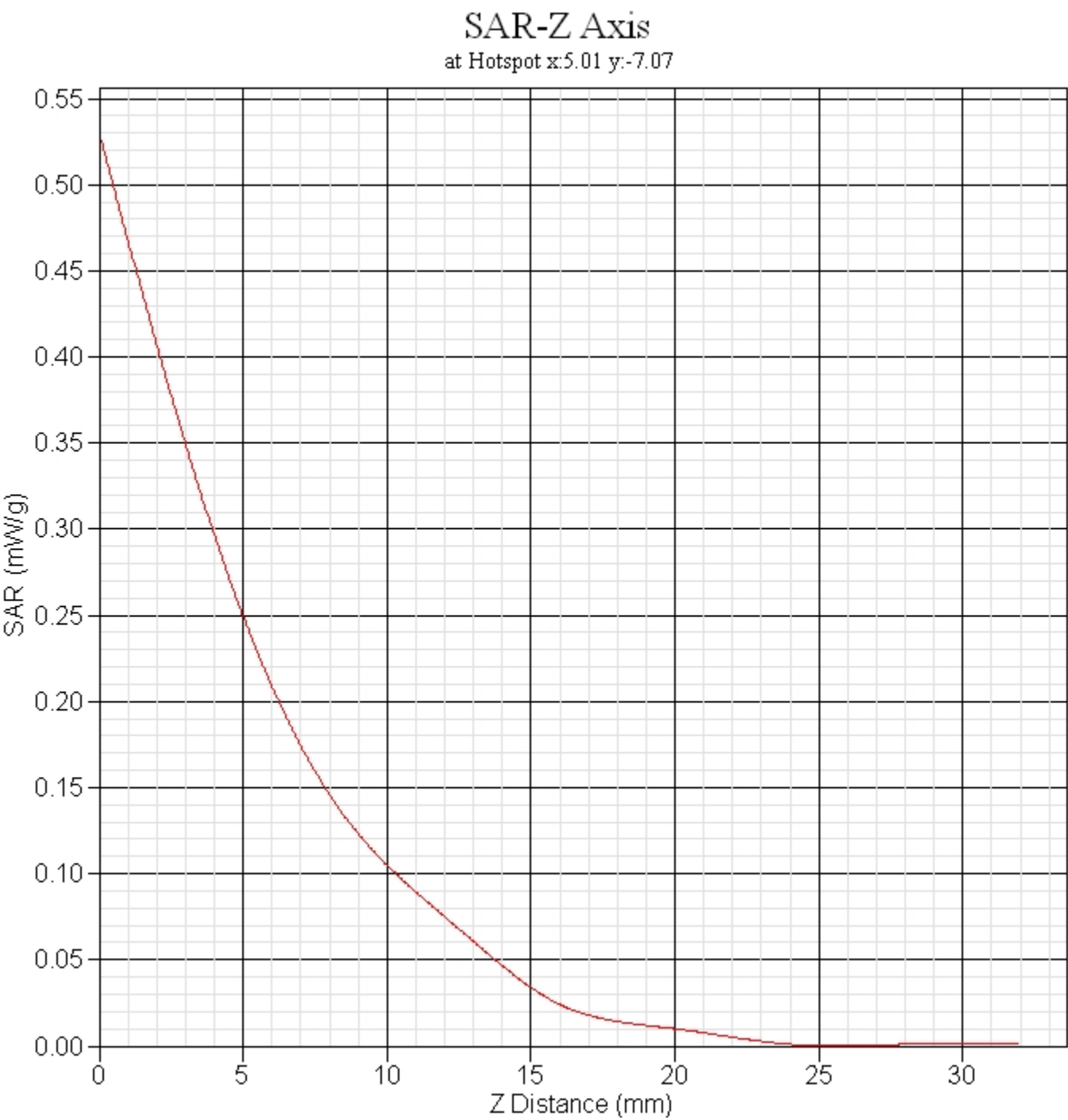


ALSAS-10U VER 2.3.8.90

1 gram SAR value : 0.241 W/kg
10 gram SAR value : 0.094 W/kg
Area Scan Peak SAR : 0.302 W/kg
Zoom Scan Peak SAR : 0.530 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	$\sqrt{3}$	$(1-cp)^{1/2}$	$(1-cp)^{1/2}$	1.5	1.5
Hemispherical Isotropy	10.9	rectangular	$\sqrt{3}$	\sqrt{cp}	\sqrt{cp}	4.4	4.4
Boundary Effect	1.0	rectangular	$\sqrt{3}$	1	1	0.6	0.6
Linearity	4.7	rectangular	$\sqrt{3}$	1	1	2.7	2.7
Detection Limit	1.0	rectangular	$\sqrt{3}$	1	1	0.6	0.6
Readout Electronics	1.0	normal	1	1	1	1.0	1.0
Response Time	0.8	rectangular	$\sqrt{3}$	1	1	0.5	0.5
Integration Time	1.7	rectangular	$\sqrt{3}$	1	1	1.0	1.0
RF Ambient Condition	3.0	rectangular	$\sqrt{3}$	1	1	1.7	1.7
Probe Positioner Mech.	0.4	rectangular	$\sqrt{3}$	1	1	0.2	0.2
Restriction							
Probe Positioning with respect to Phantom Shell	2.9	rectangular	$\sqrt{3}$	1	1	1.7	1.7
Extrapolation and Integration	3.7	rectangular	$\sqrt{3}$	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	5.8	rectangular	$\sqrt{3}$	1	1	3.3	3.3
Phantom and Setup							
Phantom Uncertainty(shape & thickness tolerance)	3.4	rectangular	$\sqrt{3}$	1	1	2.0	2.0
Liquid Conductivity(target)	5.0	rectangular	$\sqrt{3}$	0.7	0.5	2.0	1.4
Liquid Conductivity(meas.)	3.1	normal	1	0.7	0.5	2.2	1.5
Liquid Permittivity(target)	5.0	rectangular	$\sqrt{3}$	0.6	0.5	1.7	1.4
Liquid Permittivity(meas.)	8.9	normal	1	0.6	0.5	5.3	4.4
Combined Uncertainty		RSS				11.4	10.7
Combined Uncertainty (coverage factor=2)		Normal (k=2)				22.7	21.4



SAR Test Report (11n20 mode tip edge high)

Report Date : 16-Nov-2010
By Operator : 123
Measurement Date : 16-Nov-2010
Starting Time : 16-Nov-2010 03:14:05 PM
End Time : 16-Nov-2010 03:29:41 PM
Scanning Time : 936 secs

Product Data

Device Name : Computer
Serial No. : 123
Type : Std Form Cell Phone
Model : 123
Frequency : 2400.00 MHz
Max. Transmit Pwr : 1 W
Drift Time : 0 min(s)
Length : 255 mm
Width : 160 mm
Depth : 10 mm
Antenna Type : Internal
Orientation : Touch
Power Drift-Start : 0.182 W/kg
Power Drift-Finish: 0.170 W/kg
Power Drift (%) : -6.539
Picture :

Phantom Data

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

Tissue Data

Type : BODY
Serial No. : IAC Tissue - 2450
Frequency : 2450.00 MHz
Last Calib. Date : 15-May-2008
Temperature : 20.00 °C
Ambient Temp. : 20.00 °C
Humidity : 50.00 RH%
Epsilon : 48.01 F/m
Sigma : 1.89 S/m
Density : 1000.00 kg/cu. m

ALSAS-10U VER 2.3.8.90

Probe Data

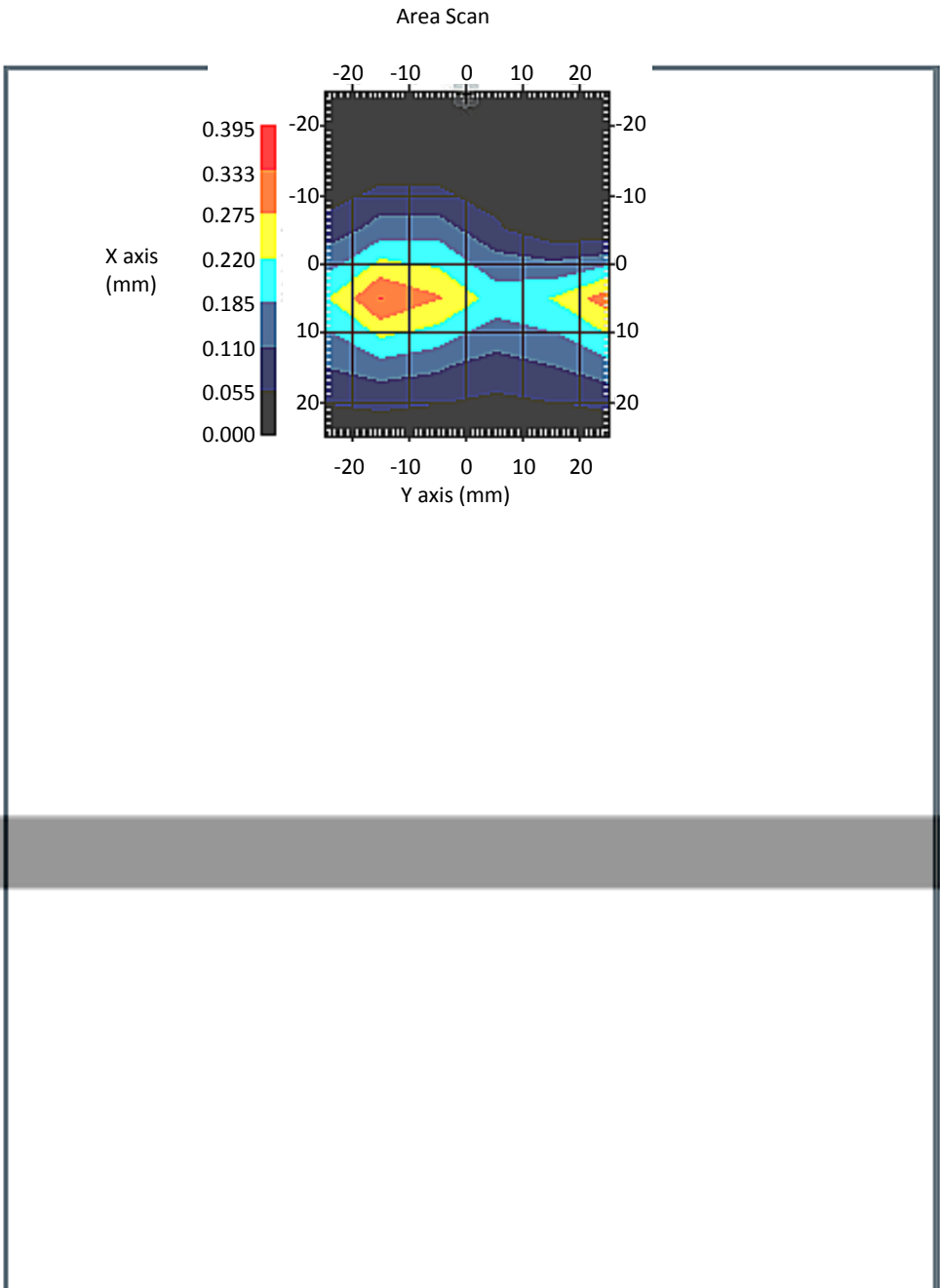
Name : IAC-273
Model : E020
Type : E-Field Triangle
Serial No. : 273
Last Calib. Date : 13-Sep-2010
Frequency : 2450.00 MHz
Duty Cycle Factor: 1
Conversion Factor: 3.6
Probe Sensitivity: 1.20 1.20 1.20 $\mu\text{V}/(\text{V}/\text{m})^2$
Compression Point: 95.00 mV
Offset : 1.56 mm

Measurement Data

Crest Factor : 1
Scan Type : Complete
Tissue Temp. : 20.00 °C
Ambient Temp. : 20.00 °C
Set-up Date : 16-Nov-2010
Set-up Time : 3:14:02 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 : Touch
Separation : 0
Channel : High



ALSAS-10U VER 2.3.8.90

1 gram SAR value : 0.266 W/kg
10 gram SAR value : 0.106 W/kg
Area Scan Peak SAR : 0.332 W/kg
Zoom Scan Peak SAR : 0.600 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	$\sqrt{3}$	$(1-cp)^{1/2}$	$(1-cp)^{1/2}$	1.5	1.5
Hemispherical Isotropy	10.9	rectangular	$\sqrt{3}$	\sqrt{cp}	\sqrt{cp}	4.4	4.4
Boundary Effect	1.0	rectangular	$\sqrt{3}$	1	1	0.6	0.6
Linearity	4.7	rectangular	$\sqrt{3}$	1	1	2.7	2.7
Detection Limit	1.0	rectangular	$\sqrt{3}$	1	1	0.6	0.6
Readout Electronics	1.0	normal	1	1	1	1.0	1.0
Response Time	0.8	rectangular	$\sqrt{3}$	1	1	0.5	0.5
Integration Time	1.7	rectangular	$\sqrt{3}$	1	1	1.0	1.0
RF Ambient Condition	3.0	rectangular	$\sqrt{3}$	1	1	1.7	1.7
Probe Positioner Mech.	0.4	rectangular	$\sqrt{3}$	1	1	0.2	0.2
Restriction							
Probe Positioning with respect to Phantom Shell	2.9	rectangular	$\sqrt{3}$	1	1	1.7	1.7
Extrapolation and Integration	3.7	rectangular	$\sqrt{3}$	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	6.5	rectangular	$\sqrt{3}$	1	1	3.8	3.8
Phantom and Setup							
Phantom Uncertainty(shape & thickness tolerance)	3.4	rectangular	$\sqrt{3}$	1	1	2.0	2.0
Liquid Conductivity(target)	5.0	rectangular	$\sqrt{3}$	0.7	0.5	2.0	1.4
Liquid Conductivity(meas.)	3.1	normal	1	0.7	0.5	2.2	1.5
Liquid Permittivity(target)	5.0	rectangular	$\sqrt{3}$	0.6	0.5	1.7	1.4
Liquid Permittivity(meas.)	8.9	normal	1	0.6	0.5	5.3	4.4
Combined Uncertainty		RSS				11.5	10.9
Combined Uncertainty (coverage factor=2)		Normal (k=2)				23.0	21.8

