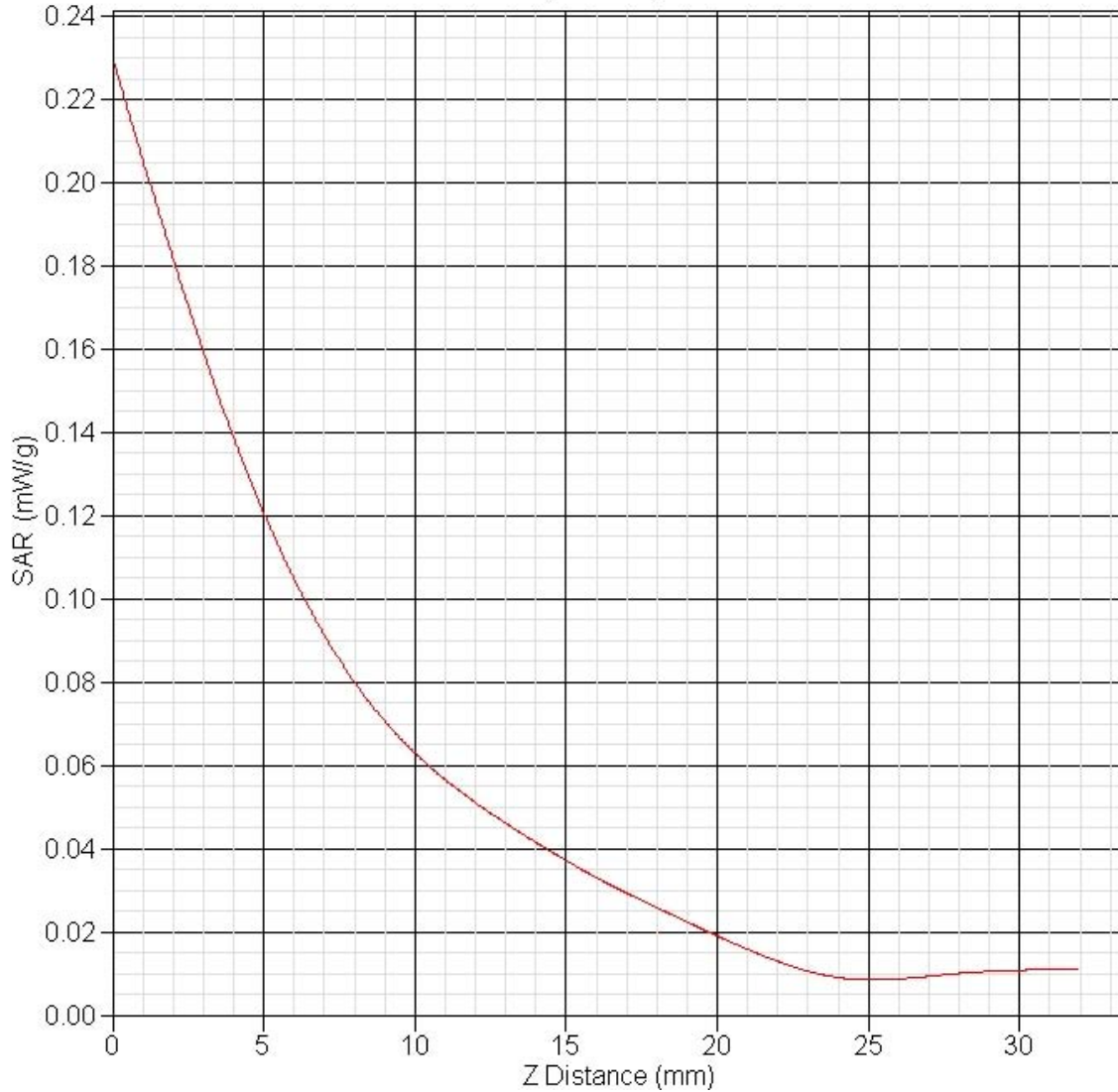


## SAR-Z Axis at Hotspot x:18.17 y:1.82



## SAR Test Report

Report Date : 31-Oct-2008  
 By Operator : 123  
 Measurement Date : 31-Oct-2008  
 Starting Time : 31-Oct-2008 02:35:35 PM  
 End Time : 31-Oct-2008 02:47:40 PM  
 Scanning Time : 725 secs

Product Data  
 Device Name : Hank-SmartAnt-5369-front  
 Serial No. : 5369  
 Type : Other  
 Model : HAN-E2-C1  
 Frequency : 2450.00 MHz  
 Max. Transmit Pwr : 1 W  
 Drift Time : 0 min(s)  
 Length : 120 mm  
 Width : 70 mm  
 Depth : 12 mm  
 Antenna Type : Internal  
 Orientation : Touch  
 Power Drift-Start : 0.016 W/kg  
 Power Drift-Finish : 0.017 W/kg  
 Power Drift (%) : 4.848  
 Picture : C:\alsas\bitmap\Hank-5369-front.bmp

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

Tissue Data  
 Type : BODY  
 Serial No. : 2450\_B  
 Frequency : 2450.00 MHz  
 Last Calib. Date : 31-Oct-2008  
 Temperature : 20.00 °C  
 Ambient Temp. : 20.00 °C  
 Humidity : 40.00 RH%  
 Epsilon : 51.10 F/m  
 Sigma : 2.03 S/m  
 Density : 1000.00 kg/cu. m

## Probe Data

Name : APREL  
 Model : E-020  
 Type : E-Field Triangle  
 Serial No. : 225  
 Last Calib. Date : 03-May-2007  
 Frequency : 2450.00 MHz  
 Duty Cycle Factor: 1  
 Conversion Factor: 4.01  
 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

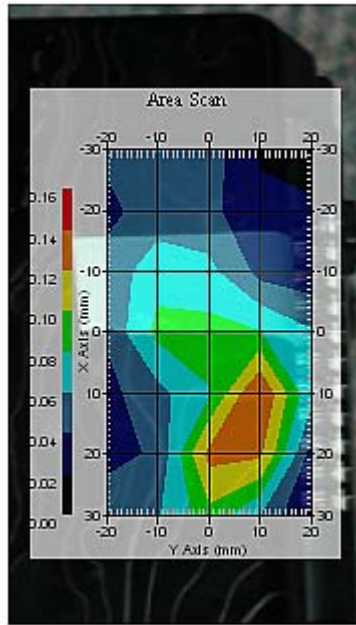
## Measurement Data

Crest Factor : 1  
 Scan Type : Complete  
 Tissue Temp. : 20.00 °C  
 Ambient Temp. : 20.00 °C  
 Set-up Date : 31-Oct-2008  
 Set-up Time : 2:35:18 PM  
 Area Scan : 7x5x1 : 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





1 gram SAR value : 0.111 W/kg  
Zoom Scan Peak SAR : 0.240 W/kg





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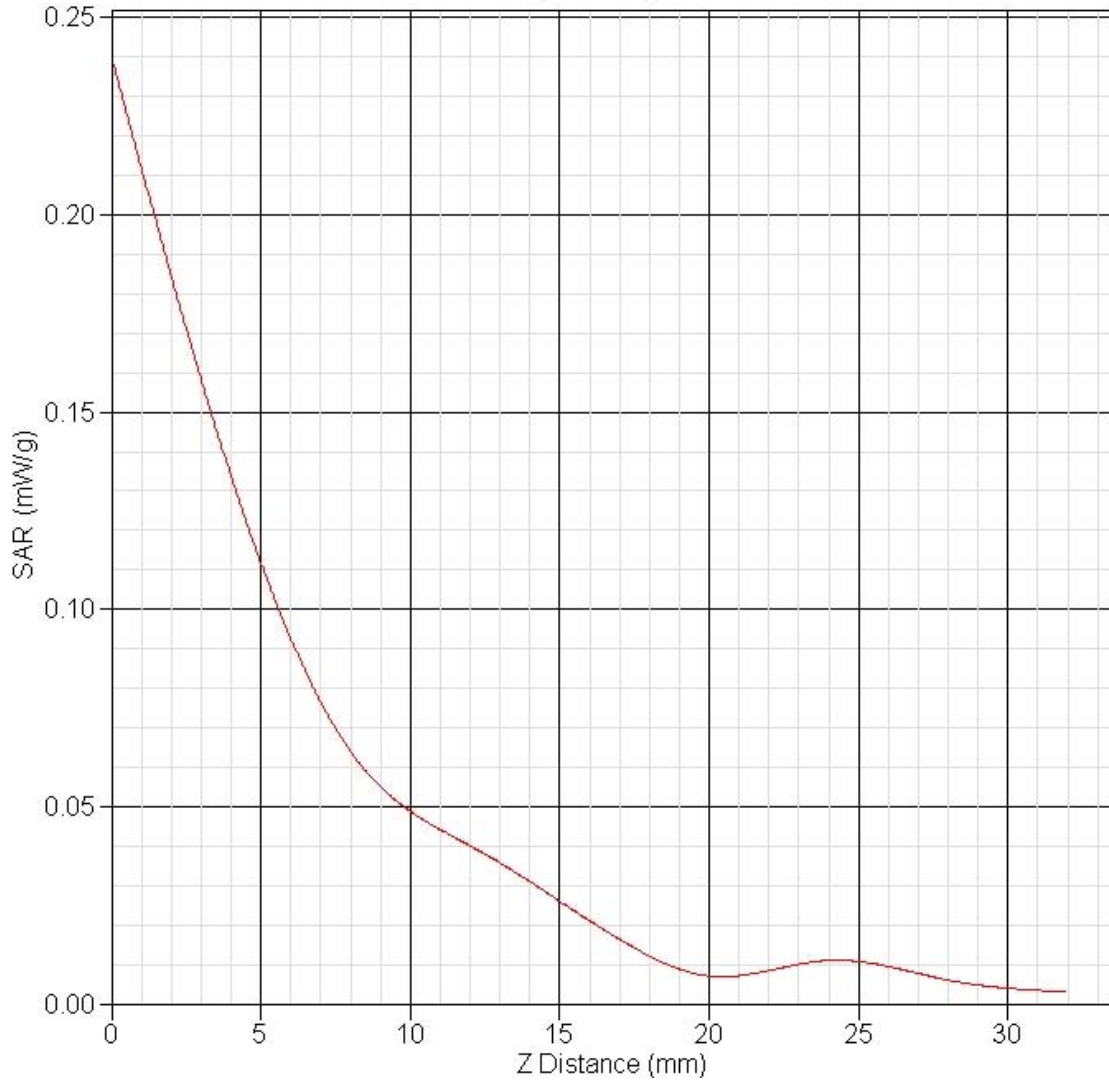
**Exposure Assessment Measurement Uncertainty**

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	$(1-cp)^{1/2}$	$(10-cp)^{1/2}$	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	4.8	rectangular	•3	1	1	2.8	2.8
Phantom and Setup							
Phantom Uncertainty(shape & thickness tolerance)	3.4	rectangular	•3	1	1	2	2
Liquid Conductivity(target)	5.0	rectangular	•3	0.7	0.5	2	1.4
Liquid Conductivity(meas.)	4.1	normal	1	0.7	0.5	2.9	2.1
Liquid Permittivity(target)	5.0	rectangular	•3	0.6	0.5	1.7	1.4
Liquid Permittivity(meas.)	3.0	normal	1	0.6	0.5	1.8	1.5
Combined Uncertainty		RSS				13.2	11.2
Combined Uncertainty (coverage factor=2)		Normal (k=2)				26.4	22.4



## SAR-Z Axis

at Hotspot x:10.14 y:9.85



## SAR Test Report

Report Date : 31-Oct-2008  
 By Operator : 123  
 Measurement Date : 31-Oct-2008  
 Starting Time : 31-Oct-2008 02:52:18 PM  
 End Time : 31-Oct-2008 03:04:24 PM  
 Scanning Time : 726 secs

Product Data  
 Device Name : Hank-SmartAnt-5369-front  
 Serial No. : 5369  
 Type : Other  
 Model : HAN-E2-C1  
 Frequency : 2450.00 MHz  
 Max. Transmit Pwr : 1 W  
 Drift Time : 0 min(s)  
 Length : 120 mm  
 Width : 70 mm  
 Depth : 12 mm  
 Antenna Type : Internal  
 Orientation : Touch  
 Power Drift-Start : 0.033 W/kg  
 Power Drift-Finish : 0.032 W/kg  
 Power Drift (%) : -4.772  
 Picture : C:\alsas\bitmap\Hank-5369-front.bmp

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

Tissue Data  
 Type : BODY  
 Serial No. : 2450\_B  
 Frequency : 2450.00 MHz  
 Last Calib. Date : 31-Oct-2008  
 Temperature : 20.00 °C  
 Ambient Temp. : 20.00 °C  
 Humidity : 40.00 RH%  
 Epsilon : 51.10 F/m  
 Sigma : 2.03 S/m  
 Density : 1000.00 kg/cu. m

## Probe Data

Name : APREL  
 Model : E-020  
 Type : E-Field Triangle  
 Serial No. : 225  
 Last Calib. Date : 03-May-2007  
 Frequency : 2450.00 MHz  
 Duty Cycle Factor: 1  
 Conversion Factor: 4.01  
 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

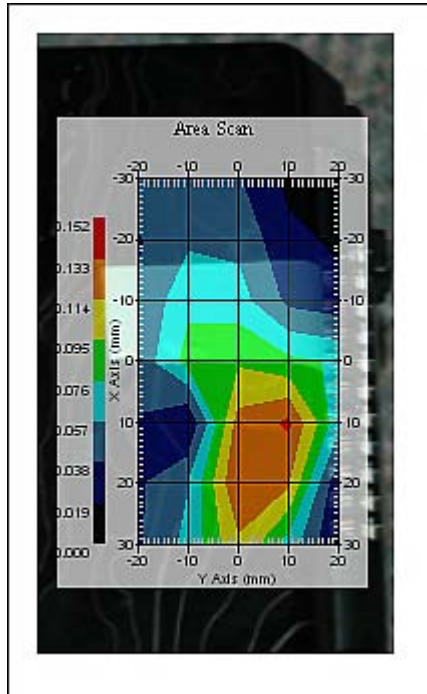
Crest Factor : 1  
 Scan Type : Complete  
 Tissue Temp. : 20.00 °C  
 Ambient Temp. : 20.00 °C  
 Set-up Date : 31-Oct-2008  
 Set-up Time : 2:51:58 PM  
 Area Scan : 7x5x1 : Measurement x=10mm, y=10mm, z=4mm  
 Zoom Scan : 5x5x8 : Measurement x=8mm, y=8mm, z=4mm

## Other Data

DUT Position : Touch  
 Separation : 0  
 Channel : Mid







1 gram SAR value : 0.120 W/kg  
 Zoom Scan Peak SAR : 0.200 W/kg





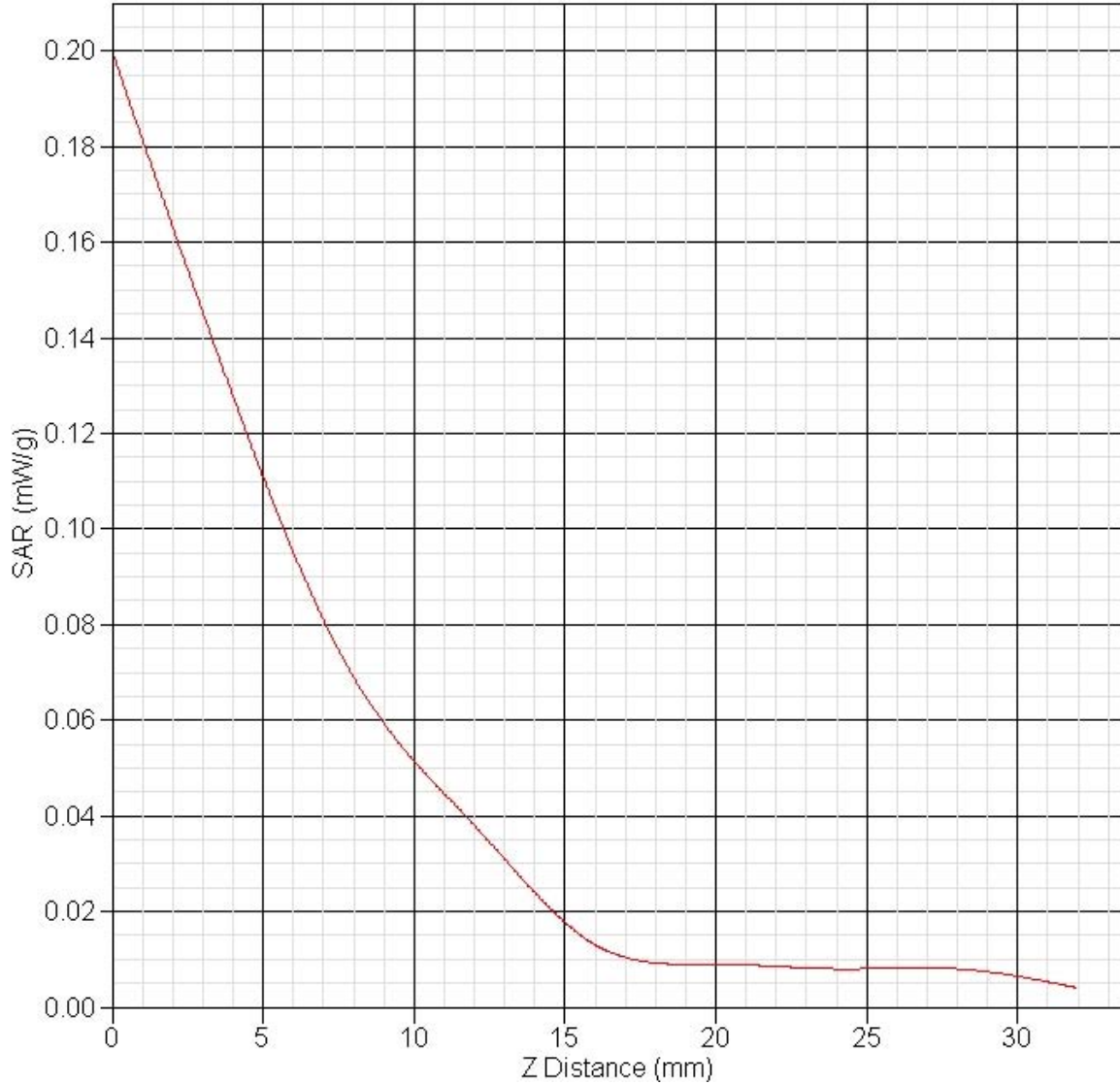
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**Exposure Assessment Measurement Uncertainty**

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	$(1-cp)^{1/2}$	$(10-cp)^{1/2}$	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	4.8	rectangular	•3	1	1	2.7	2.7
Phantom and Setup							
Phantom Uncertainty(shape & thickness tolerance)	3.4	rectangular	•3	1	1	2	2
Liquid Conductivity(target)	5.0	rectangular	•3	0.7	0.5	2	1.4
Liquid Conductivity(meas.)	4.1	normal	1	0.7	0.5	2.9	2.1
Liquid Permittivity(target)	5.0	rectangular	•3	0.6	0.5	1.7	1.4
Liquid Permittivity(meas.)	3.0	normal	1	0.6	0.5	1.8	1.5
Combined Uncertainty		RSS				13.1	11.1
Combined Uncertainty (coverage factor=2)		Normal (k=2)				26.2	22.2



## SAR-Z Axis at Hotspot x:10.13 y:9.85



## SAR Test Report

Report Date : 29-Oct-2008  
 By Operator : 123  
 Measurement Date : 29-Oct-2008  
 Starting Time : 29-Oct-2008 06:52:16 AM  
 End Time : 29-Oct-2008 08:08:21 AM  
 Scanning Time : xxxx secs

Product Data  
 Device Name : Hank-SmartAnt-5369-front  
 Serial No. : 5369  
 Type : Other  
 Model : HAN-E2-C1  
 Frequency : 5200.00 MHz  
 Max. Transmit Pwr : 1 W  
 Drift Time : 0 min(s)  
 Length : 120 mm  
 Width : 80 mm  
 Depth : 12 mm  
 Antenna Type : Internal  
 Orientation : Touch  
 Power Drift-Start : 0.030 W/kg  
 Power Drift-Finish : 0.030 W/kg  
 Power Drift (%) : -3.752  
 Picture : C:\alsas\bitmap\Hank-5369-front.bmp

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

Tissue Data  
 Type : BODY  
 Serial No. : 5200-B  
 Frequency : 5200.00 MHz  
 Last Calib. Date : 27-Oct-2008  
 Temperature : 20.00 °C  
 Ambient Temp. : 20.00 °C  
 Humidity : 40.00 RH%  
 Epsilon : 47.86 F/m  
 Sigma : 5.14 S/m  
 Density : 1000.00 kg/cu. m

## Probe Data

Name : APREL  
 Model : E-020  
 Type : E-Field Triangle  
 Serial No. : 225  
 Last Calib. Date : 03-May-2007  
 Frequency : 5200.00 MHz  
 Duty Cycle Factor: 1  
 Conversion Factor: 3.2  
 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

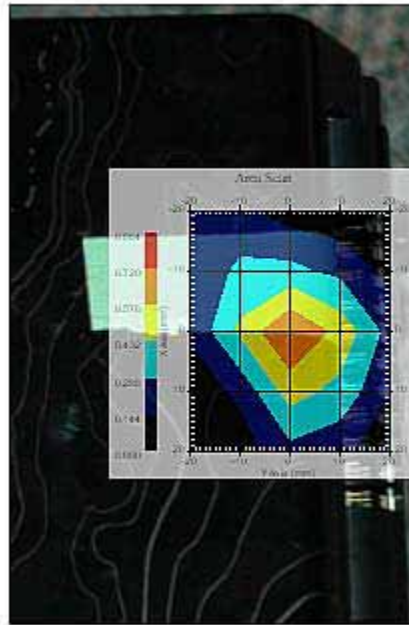
## Measurement Data

Crest Factor : 1  
 Scan Type : Complete  
 Tissue Temp. : 20.00 °C  
 Ambient Temp. : 20.00 °C  
 Set-up Date : 29-Oct-2008  
 Set-up Time : 7:51:56 AM  
 Area Scan : 5x5x1 : Measurement x=10mm, y=10mm, z=2mm  
 Zoom Scan : 8x8x17 : Measurement x=4mm, y=4mm, z=2mm

## Other Data

DUT Position : Touch  
 Separation : 0  
 Channel : Low





1 gram SAR value : 0.667 W/kg  
 Zoom Scan Peak SAR : 1.711 W/kg





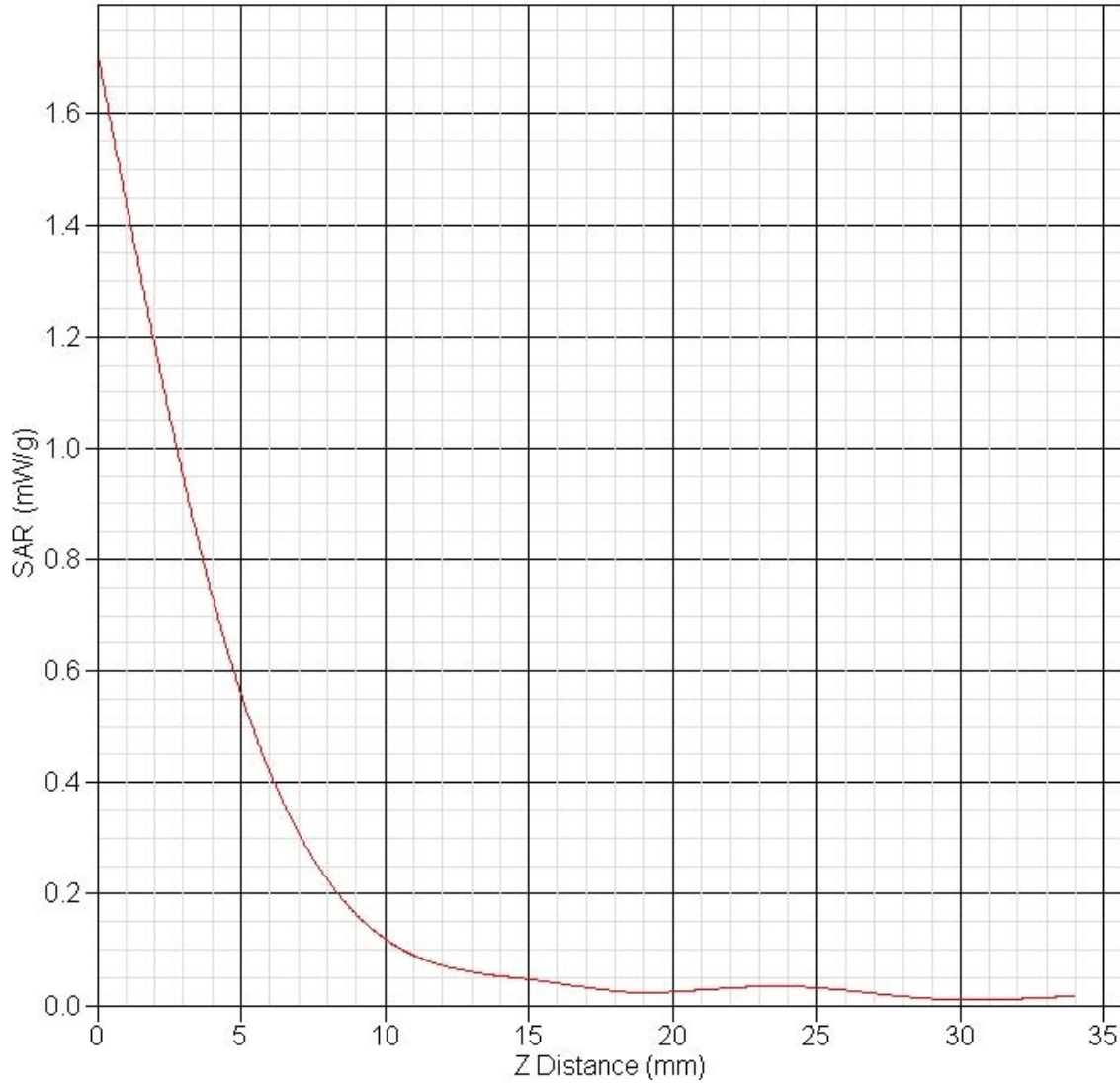
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**Exposure Assessment Measurement Uncertainty**

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	$(1-cp)^{1/2}$	$(10-cp)^{1/2}$	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	3.8	rectangular	•3	1	1	2.1	2.1
Phantom and Setup							
Phantom Uncertainty (shape & thickness tolerance)	3.4	rectangular	•3	1	1	2	2
Liquid Conductivity (target)	5.0	rectangular	•3	0.7	0.5	2	1.4
Liquid Conductivity (meas.)	3.9	normal	1	0.7	0.5	2.7	2
Liquid Permittivity (target)	5.0	rectangular	•3	0.6	0.5	1.7	1.4
Liquid Permittivity (meas.)	2.1	normal	1	0.6	0.5	1.3	1.1
Combined Uncertainty		RSS				11.8	10
Combined Uncertainty (coverage factor=2)		Normal (k=2)				23.6	20



## SAR-Z Axis at Hotspot x:0.39 y:4.90





## SAR Test Report

Report Date : 29-Oct-2008  
 By Operator : 123  
 Measurement Date : 29-Oct-2008  
 Starting Time : 29-Oct-2008 10:20:55 AM  
 End Time : 29-Oct-2008 11:36:48 AM  
 Scanning Time : xxxx secs

Product Data  
 Device Name : Hank-SmartAnt-5369-front  
 Serial No. : 5369  
 Type : Other  
 Model : HAN-E2-C1  
 Frequency : 5200.00 MHz  
 Max. Transmit Pwr : 1 W  
 Drift Time : 0 min(s)  
 Length : 120 mm  
 Width : 80 mm  
 Depth : 12 mm  
 Antenna Type : Internal  
 Orientation : Touch  
 Power Drift-Start : 0.041 W/kg  
 Power Drift-Finish : 0.021 W/kg  
 Power Drift (%) : -4.713  
 Picture : C:\alsas\bitmap\Hank-5369-front.bmp

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

Tissue Data  
 Type : BODY  
 Serial No. : 5200-B  
 Frequency : 5200.00 MHz  
 Last Calib. Date : 27-Oct-2008  
 Temperature : 20.00 °C  
 Ambient Temp. : 20.00 °C  
 Humidity : 40.00 RH%  
 Epsilon : 47.86 F/m  
 Sigma : 5.14 S/m  
 Density : 1000.00 kg/cu. m

## Probe Data

Name : APREL  
 Model : E-020  
 Type : E-Field Triangle  
 Serial No. : 225  
 Last Calib. Date : 03-May-2007  
 Frequency : 5200.00 MHz  
 Duty Cycle Factor: 1  
 Conversion Factor: 3.2  
 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

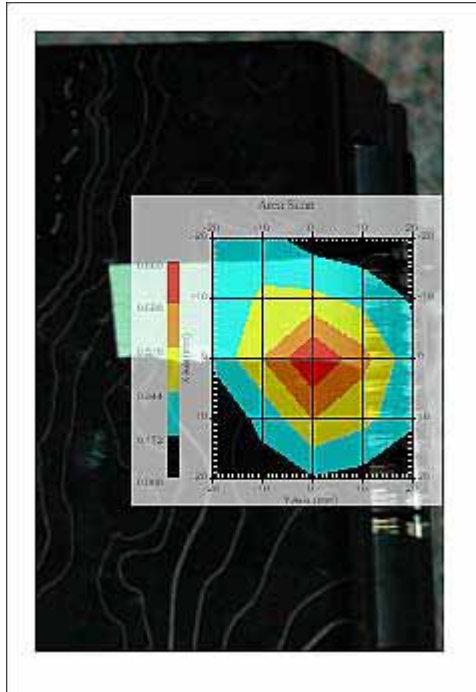
## Measurement Data

Crest Factor : 1  
 Scan Type : Complete  
 Tissue Temp. : 20.00 °C  
 Ambient Temp. : 20.00 °C  
 Set-up Date : 29-Oct-2008  
 Set-up Time : 11:19:26 AM  
 Area Scan : 5x5x1 : Measurement x=10mm, y=10mm, z=2mm  
 Zoom Scan : 8x8x17 : Measurement x=4mm, y=4mm, z=2mm

## Other Data

DUT Position : Touch  
 Separation : 0  
 Channel : Low





1 gram SAR value : 0.661 W/kg  
 Zoom Scan Peak SAR : 1.571 W/kg





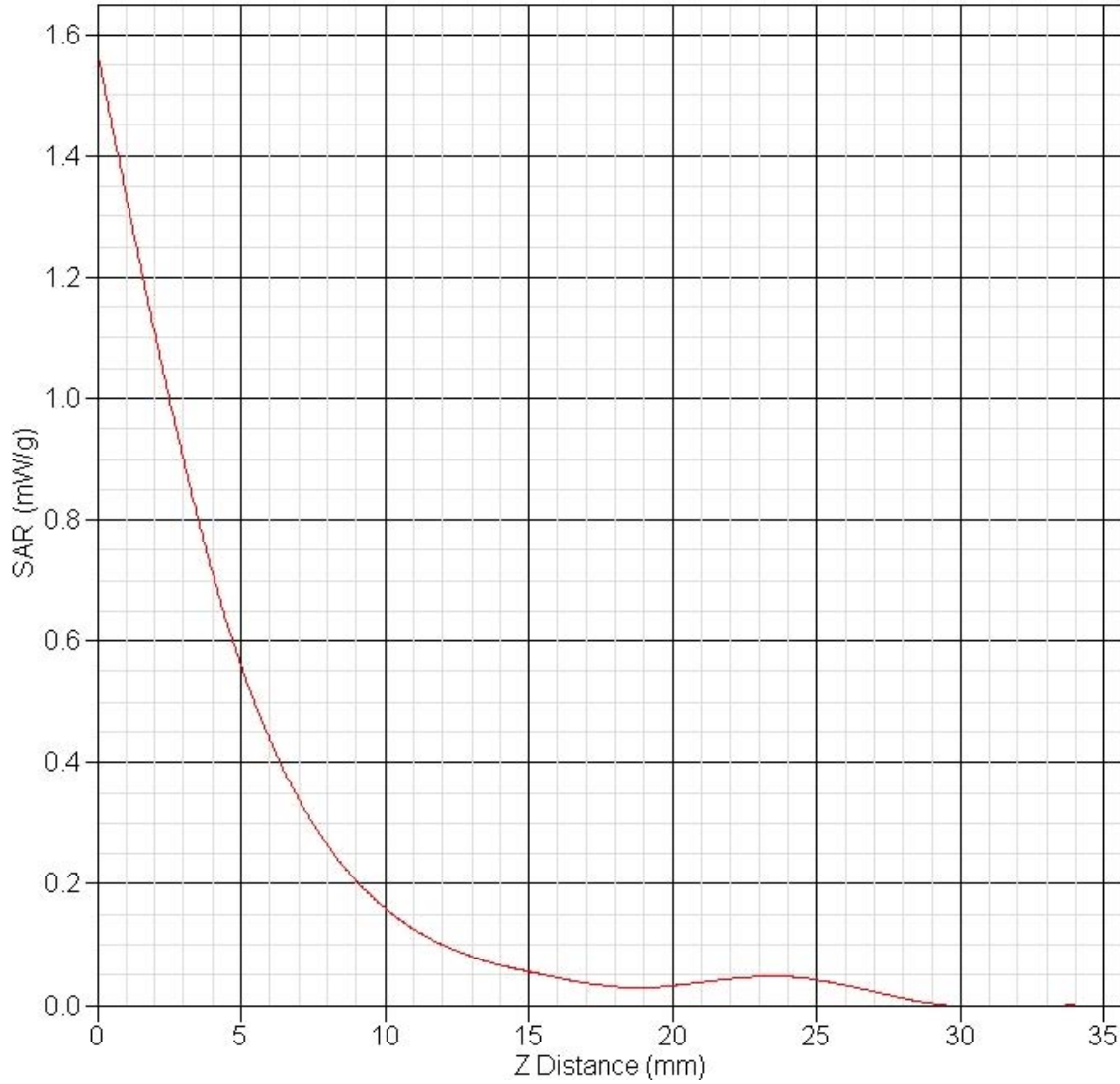
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**Exposure Assessment Measurement Uncertainty**

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	$(1-cp)^{1/2}$	$(10-cp)^{1/2}$	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	4.7	rectangular	•3	1	1	2.7	2.7
Phantom and Setup							
Phantom Uncertainty (shape & thickness tolerance)	3.4	rectangular	•3	1	1	2	2
Liquid Conductivity (target)	5.0	rectangular	•3	0.7	0.5	2	1.4
Liquid Conductivity (meas.)	3.9	normal	1	0.7	0.5	2.7	2
Liquid Permittivity (target)	5.0	rectangular	•3	0.6	0.5	1.7	1.4
Liquid Permittivity (meas.)	2.1	normal	1	0.6	0.5	1.3	1.1
Combined Uncertainty		RSS				12.4	10.6
Combined Uncertainty (coverage factor=2)		Normal (k=2)				24.8	21.2



## SAR-Z Axis at Hotspot x:0.34 y:-0.09



## SAR Test Report

Report Date : 29-Oct-2008  
 By Operator : 123  
 Measurement Date : 29-Oct-2008  
 Starting Time : 29-Oct-2008 11:43:25 AM  
 End Time : 29-Oct-2008 12:59:27 PM  
 Scanning Time : xxxx secs

Product Data  
 Device Name : Hank-SmartAnt-5369-front  
 Serial No. : 5369  
 Type : Other  
 Model : HAN-E2-C1  
 Frequency : 5200.00 MHz  
 Max. Transmit Pwr : 1 W  
 Drift Time : 0 min(s)  
 Length : 120 mm  
 Width : 80 mm  
 Depth : 12 mm  
 Antenna Type : Internal  
 Orientation : Touch  
 Power Drift-Start : 0.026 W/kg  
 Power Drift-Finish : 0.027 W/kg  
 Power Drift (%) : 3.126  
 Picture : C:\alsas\bitmap\Hank-5369-front.bmp

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

Tissue Data  
 Type : BODY  
 Serial No. : 5200-B  
 Frequency : 5200.00 MHz  
 Last Calib. Date : 27-Oct-2008  
 Temperature : 20.00 °C  
 Ambient Temp. : 20.00 °C  
 Humidity : 40.00 RH%  
 Epsilon : 47.86 F/m  
 Sigma : 5.14 S/m  
 Density : 1000.00 kg/cu. m

## Probe Data

Name : APREL  
 Model : E-020  
 Type : E-Field Triangle  
 Serial No. : 225  
 Last Calib. Date : 03-May-2007  
 Frequency : 5200.00 MHz  
 Duty Cycle Factor: 1  
 Conversion Factor: 3.2  
 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

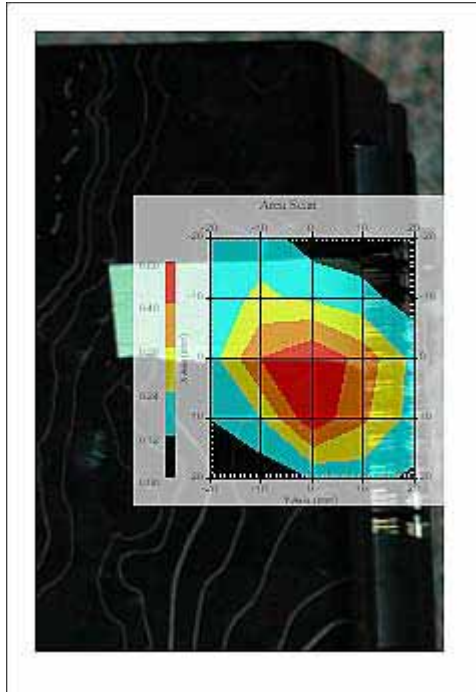
## Measurement Data

Crest Factor : 1  
 Scan Type : Complete  
 Tissue Temp. : 20.00 °C  
 Ambient Temp. : 20.00 °C  
 Set-up Date : 29-Oct-2008  
 Set-up Time : 11:40:58 AM  
 Area Scan : 5x5x1 : Measurement x=10mm, y=10mm, z=2mm  
 Zoom Scan : 8x8x17 : Measurement x=4mm, y=4mm, z=2mm

## Other Data

DUT Position : Touch  
 Separation : 0  
 Channel : Low





1 gram SAR value : 0.644 W/kg  
 Zoom Scan Peak SAR : 1.531 W/kg







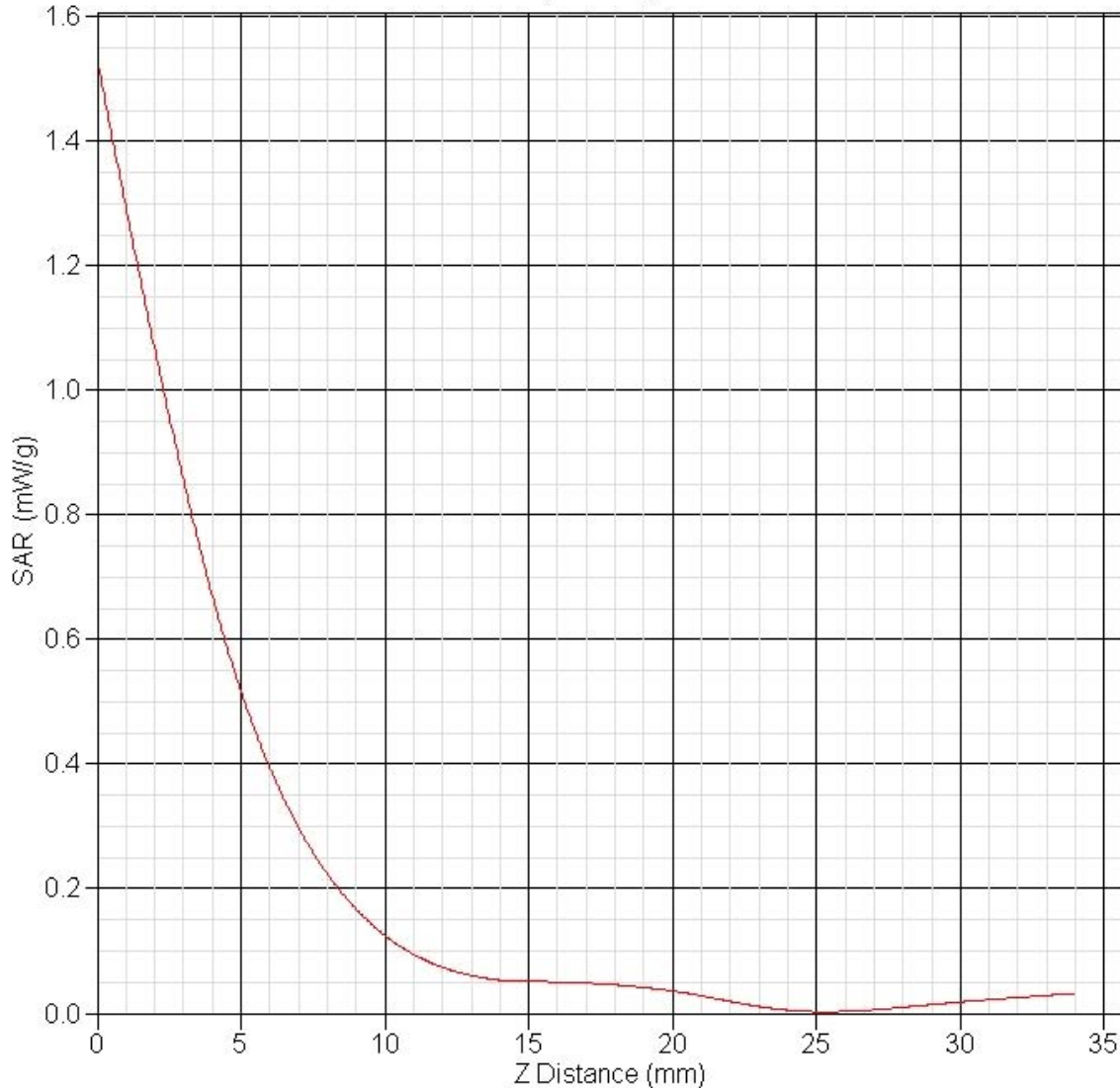
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**Exposure Assessment Measurement Uncertainty**

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	$(1-cp)^{1/2}$	$(10-cp)^{1/2}$	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	2
Liquid Conductivity (target)	5.0	rectangular	•3	0.7	0.5	2	1.4
Liquid Conductivity (meas.)	3.9	normal	1	0.7	0.5	2.7	2
Liquid Permittivity (target)	5.0	rectangular	•3	0.6	0.5	1.7	1.4
Liquid Permittivity (meas.)	2.1	normal	1	0.6	0.5	1.3	1.1
Combined Uncertainty		RSS				11.5	9.7
Combined Uncertainty (coverage factor=2)		Normal (k=2)				23	19.4



## SAR-Z Axis at Hotspot x:5.33 y:-0.12



## SAR Test Report

Report Date : 29-Oct-2008  
 By Operator : 123  
 Measurement Date : 29-Oct-2008  
 Starting Time : 29-Oct-2008 12:08:32 PM  
 End Time : 29-Oct-2008 01:24:35 PM  
 Scanning Time : xxxx secs

Product Data  
 Device Name : Hank-SmartAnt-5369-front  
 Serial No. : 5369  
 Type : Other  
 Model : HAN-E2-C1  
 Frequency : 5600.00 MHz  
 Max. Transmit Pwr : 1 W  
 Drift Time : 0 min(s)  
 Length : 120 mm  
 Width : 80 mm  
 Depth : 12 mm  
 Antenna Type : Internal  
 Orientation : Touch  
 Power Drift-Start : 0.057 W/kg  
 Power Drift-Finish : 0.056 W/kg  
 Power Drift (%) : -4.325  
 Picture : C:\alsas\bitmap\Hank-5369-front.bmp

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

Tissue Data  
 Type : BODY  
 Serial No. : 5600BB  
 Frequency : 5600.00 MHz  
 Last Calib. Date : 27-Oct-2008  
 Temperature : 20.00 °C  
 Ambient Temp. : 20.00 °C  
 Humidity : 40.00 RH%  
 Epsilon : 46.74 F/m  
 Sigma : 5.96 S/m  
 Density : 1000.00 kg/cu. m

## Probe Data

Name : APREL  
 Model : E-020  
 Type : E-Field Triangle  
 Serial No. : 225  
 Last Calib. Date : 03-May-2007  
 Frequency : 5600.00 MHz  
 Duty Cycle Factor: 1  
 Conversion Factor: 3.9  
 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

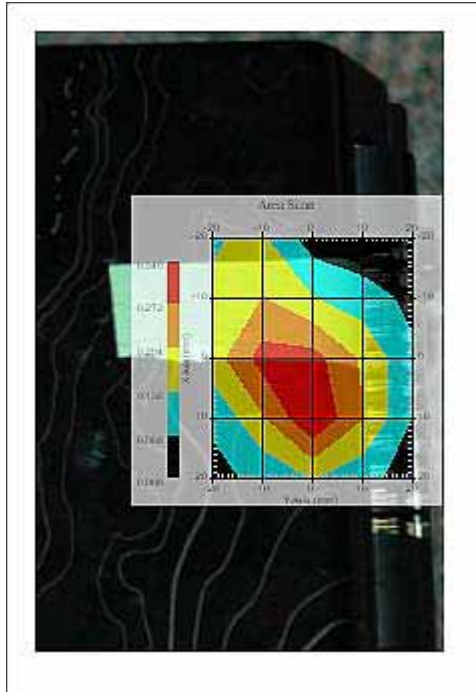
## Measurement Data

Crest Factor : 1  
 Scan Type : Complete  
 Tissue Temp. : 20.00 °C  
 Ambient Temp. : 20.00 °C  
 Set-up Date : 29-Oct-2008  
 Set-up Time : 12:07:59 PM  
 Area Scan : 5x5x1 : Measurement x=10mm, y=10mm, z=2mm  
 Zoom Scan : 8x8x17 : Measurement x=4mm, y=4mm, z=2mm

## Other Data

DUT Position : Touch  
 Separation : 0  
 Channel : Low





1 gram SAR value : 0.335 W/kg  
 Zoom Scan Peak SAR : 0.780 W/kg





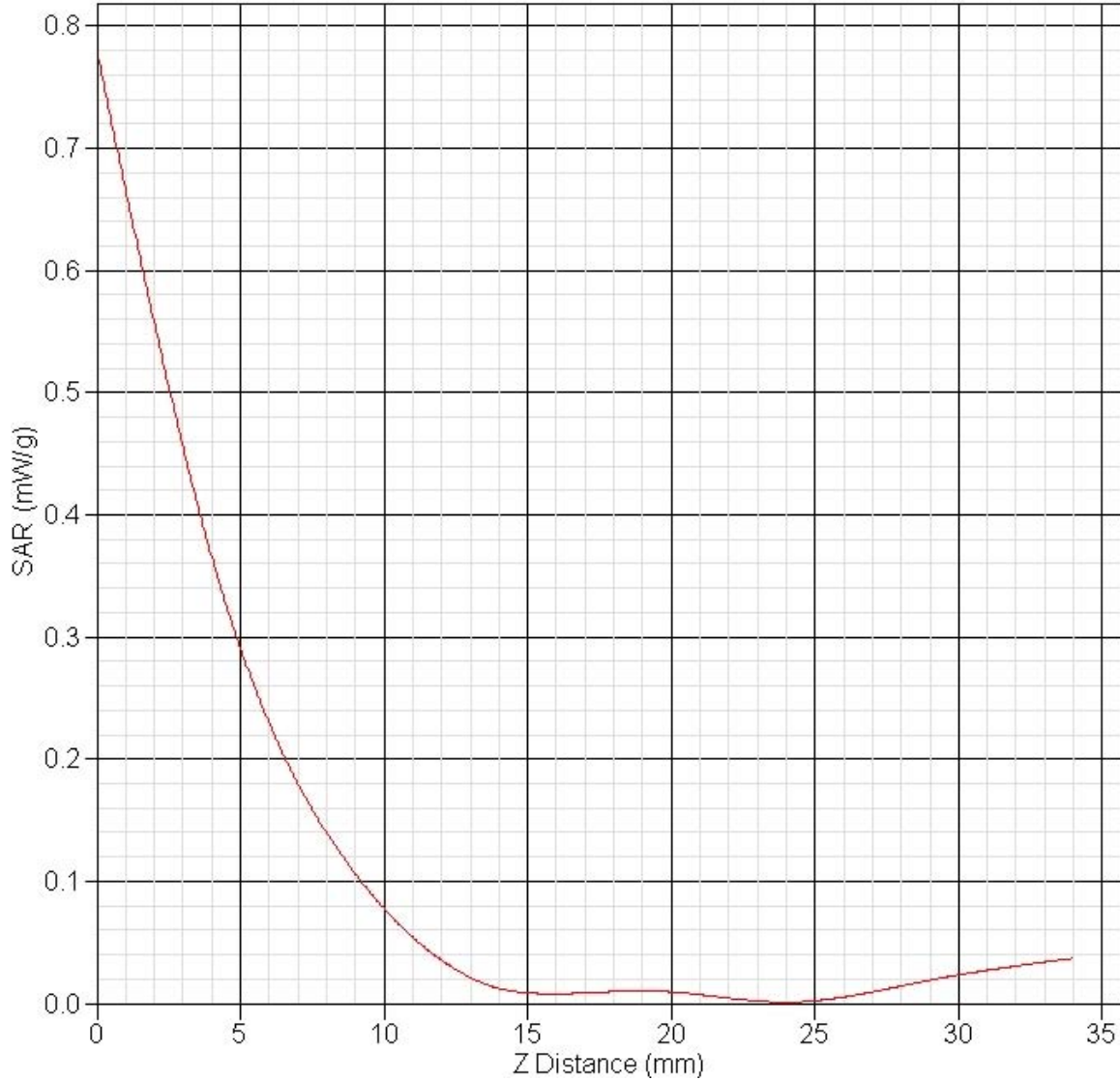
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**Exposure Assessment Measurement Uncertainty**

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	$(1-cp)^{1/2}$	$(10-cp)^{1/2}$	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	4.3	rectangular	•3	1	1	2.5	2.5
Phantom and Setup							
Phantom Uncertainty (shape & thickness tolerance)	3.4	rectangular	•3	1	1	2	2
Liquid Conductivity (target)	5.0	rectangular	•3	0.7	0.5	2	1.4
Liquid Conductivity (meas.)	1.4	normal	1	0.7	0.5	1.1	1
Liquid Permittivity (target)	5.0	rectangular	•3	0.6	0.5	1.7	1.4
Liquid Permittivity (meas.)	1.4	normal	1	0.6	0.5	1.7	1.4
Combined Uncertainty		RSS				11	9.7
Combined Uncertainty (coverage factor=2)		Normal (k=2)				22	19.4



## SAR-Z Axis at Hotspot x:5.14 y:-5.15



## SAR Test Report

Report Date : 29-Oct-2008  
 By Operator : 123  
 Measurement Date : 29-Oct-2008  
 Starting Time : 29-Oct-2008 01:30:16 PM  
 End Time : 29-Oct-2008 02:46:18 PM  
 Scanning Time : xxx secs

Product Data  
 Device Name : Hank-SmartAnt-5369-front  
 Serial No. : 5369  
 Type : Other  
 Model : HAN-E2-C1  
 Frequency : 5600.00 MHz  
 Max. Transmit Pwr : 1 W  
 Drift Time : 0 min(s)  
 Length : 120 mm  
 Width : 80 mm  
 Depth : 12 mm  
 Antenna Type : Internal  
 Orientation : Touch  
 Power Drift-Start : 0.057 W/kg  
 Power Drift-Finish : 0.057 W/kg  
 Power Drift (%) : 1.188  
 Picture : C:\alsas\bitmap\Hank-5369-front.bmp

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

Tissue Data  
 Type : BODY  
 Serial No. : 5600BB  
 Frequency : 5600.00 MHz  
 Last Calib. Date : 27-Oct-2008  
 Temperature : 20.00 °C  
 Ambient Temp. : 20.00 °C  
 Humidity : 40.00 RH%  
 Epsilon : 46.74 F/m  
 Sigma : 5.96 S/m  
 Density : 1000.00 kg/cu. m



## Probe Data

Name : APREL  
 Model : E-020  
 Type : E-Field Triangle  
 Serial No. : 225  
 Last Calib. Date : 03-May-2007  
 Frequency : 5600.00 MHz  
 Duty Cycle Factor: 1  
 Conversion Factor: 3.9  
 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

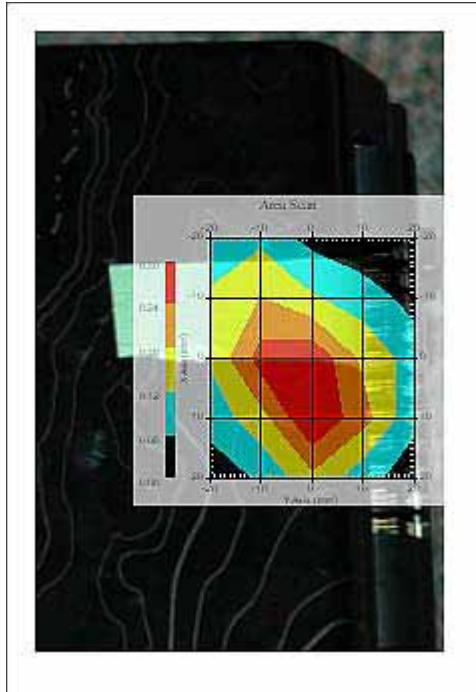
## Measurement Data

Crest Factor : 1  
 Scan Type : Complete  
 Tissue Temp. : 20.00 °C  
 Ambient Temp. : 20.00 °C  
 Set-up Date : 29-Oct-2008  
 Set-up Time : 1:29:47 PM  
 Area Scan : 5x5x1 : Measurement x=10mm, y=10mm, z=2mm  
 Zoom Scan : 8x8x17 : Measurement x=4mm, y=4mm, z=2mm

## Other Data

DUT Position : Touch  
 Separation : 0  
 Channel : Low





1 gram SAR value : 0.342 W/kg  
 Zoom Scan Peak SAR : 0.790 W/kg





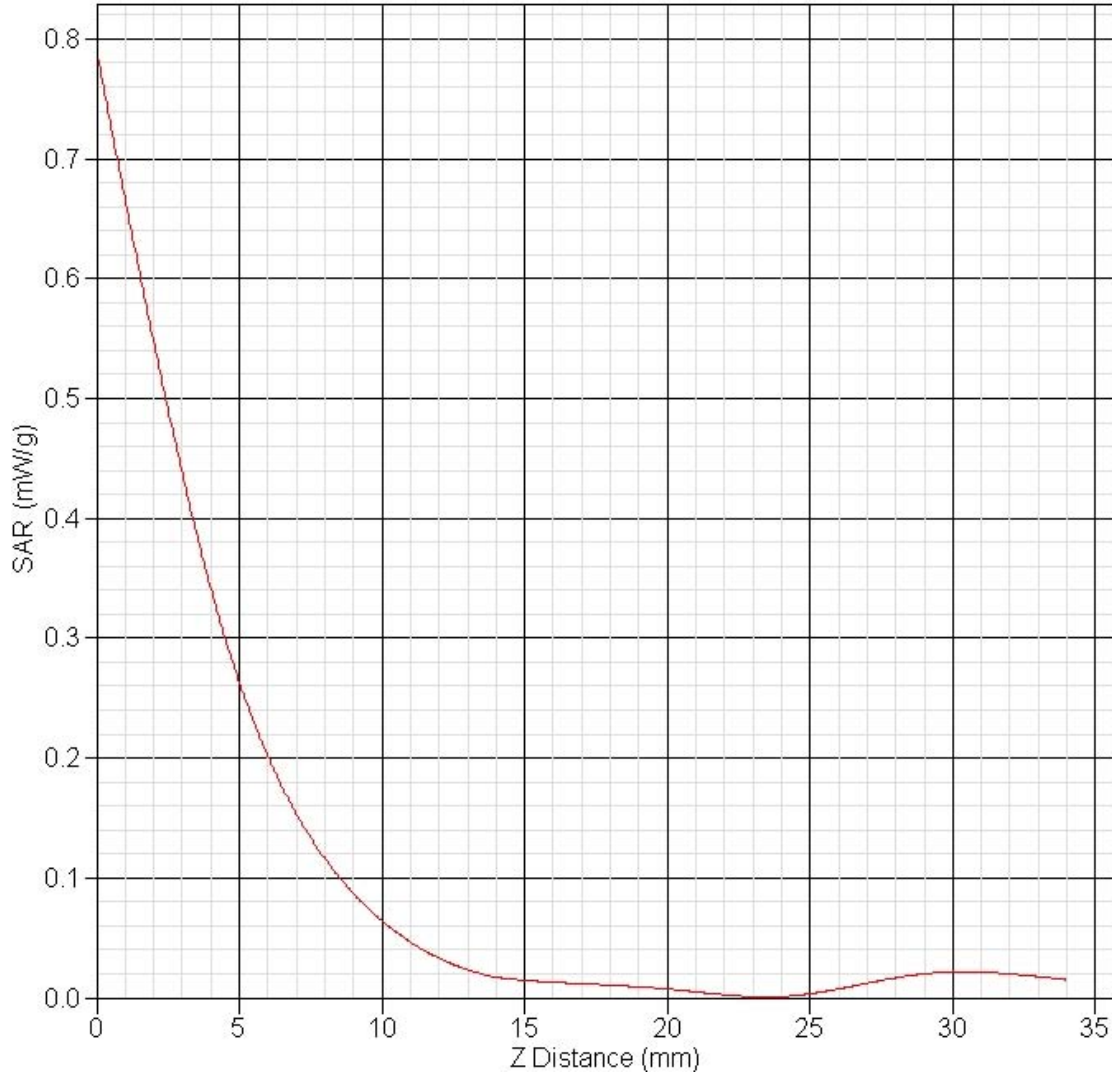
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**Exposure Assessment Measurement Uncertainty**

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	$(1-cp)^{1/2}$	$(10-cp)^{1/2}$	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	1.1	rectangular	•3	1	1	0.69	0.69
Phantom and Setup							
Phantom Uncertainty (shape & thickness tolerance)	3.4	rectangular	•3	1	1	2	2
Liquid Conductivity (target)	5.0	rectangular	•3	0.7	0.5	2	1.4
Liquid Conductivity (meas.)	1.4	normal	1	0.7	0.5	1.1	1
Liquid Permittivity (target)	5.0	rectangular	•3	0.6	0.5	1.7	1.4
Liquid Permittivity (meas.)	1.4	normal	1	0.6	0.5	0.9	0.7
Combined Uncertainty		RSS				8.39	7.19
Combined Uncertainty (coverage factor=2)		Normal (k=2)				16.78	14.38



## SAR-Z Axis at Hotspot x:5.33 y:-5.12



## SAR Test Report

Report Date : 29-Oct-2008  
 By Operator : 123  
 Measurement Date : 29-Oct-2008  
 Starting Time : 29-Oct-2008 02:44:03 PM  
 End Time : 29-Oct-2008 04:00:00 PM  
 Scanning Time : xxxx secs

Product Data  
 Device Name : Hank-SmartAnt-5369-front  
 Serial No. : 5369  
 Type : Other  
 Model : HAN-E2-C1  
 Frequency : 5800.00 MHz  
 Max. Transmit Pwr : 1 W  
 Drift Time : 0 min(s)  
 Length : 120 mm  
 Width : 80 mm  
 Depth : 12 mm  
 Antenna Type : Internal  
 Orientation : Touch  
 Power Drift-Start : 0.069 W/kg  
 Power Drift-Finish : 0.068 W/kg  
 Power Drift (%) : -3.395  
 Picture : C:\alsas\bitmap\Hank-5369-front.bmp

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

Tissue Data  
 Type : BODY  
 Serial No. : 5800-B  
 Frequency : 5800.00 MHz  
 Last Calib. Date : 27-Oct-2008  
 Temperature : 20.00 °C  
 Ambient Temp. : 20.00 °C  
 Humidity : 50.00 RH%  
 Epsilon : 46.11 F/m  
 Sigma : 6.25 S/m  
 Density : 1000.00 kg/cu. m

## Probe Data

Name : APREL  
 Model : E-020  
 Type : E-Field Triangle  
 Serial No. : 225  
 Last Calib. Date : 03-May-2007  
 Frequency : 5800.00 MHz  
 Duty Cycle Factor: 1  
 Conversion Factor: 3.9  
 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

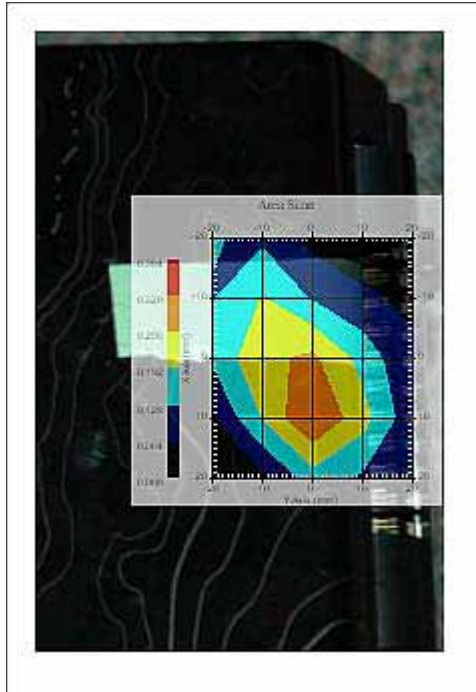
## Measurement Data

Crest Factor : 1  
 Scan Type : Complete  
 Tissue Temp. : 20.00 °C  
 Ambient Temp. : 20.00 °C  
 Set-up Date : 29-Oct-2008  
 Set-up Time : 2:43:36 PM  
 Area Scan : 5x5x1 : Measurement x=10mm, y=10mm, z=2mm  
 Zoom Scan : 8x8x17 : Measurement x=4mm, y=4mm, z=2mm

## Other Data

DUT Position : Touch  
 Separation : 0  
 Channel : Mid





1 gram SAR value : 0.306 W/kg  
 Zoom Scan Peak SAR : 0.760 W/kg





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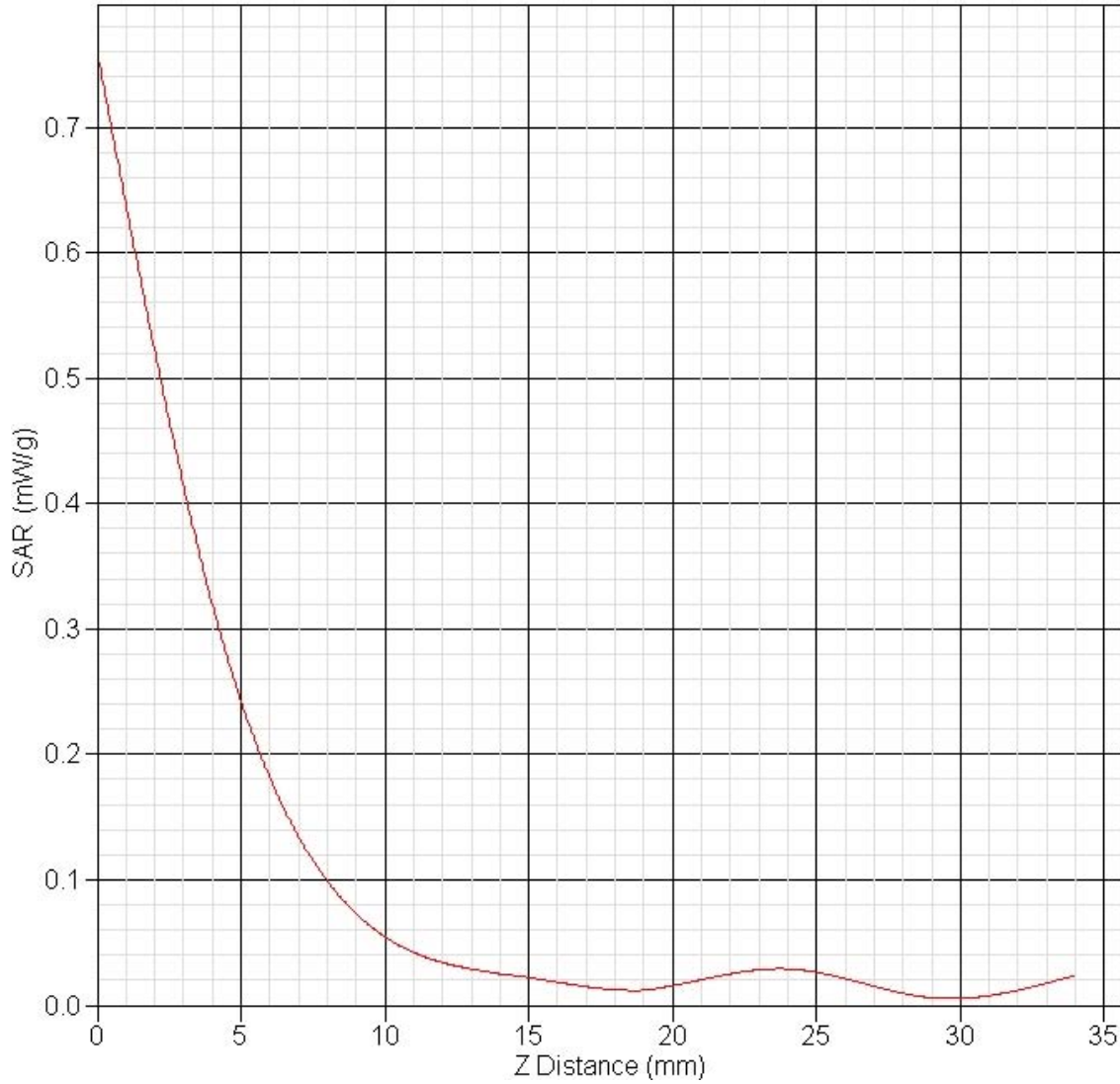
**Exposure Assessment Measurement Uncertainty**

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	$(1-cp)^{1/2}$	$(10-cp)^{1/2}$	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	3.4	rectangular	•3	1	1	2	2
Phantom and Setup							
Phantom Uncertainty (shape & thickness tolerance)	3.4	rectangular	•3	1	1	2	2
Liquid Conductivity (target)	5.0	rectangular	•3	0.7	0.5	2	1.4
Liquid Conductivity (meas.)	4.2	normal	1	0.7	0.5	2.9	2.1
Liquid Permittivity (target)	5.0	rectangular	•3	0.6	0.5	1.7	1.4
Liquid Permittivity (meas.)	4.3	normal	1	0.6	0.5	2.6	2.2
Combined Uncertainty		RSS				13.2	11.1
Combined Uncertainty (coverage factor=2)		Normal (k=2)				26.4	22.2





## SAR-Z Axis at Hotspot x:5.17 y:-0.15



## SAR Test Report

Report Date : 30-Oct-2008  
 By Operator : 123  
 Measurement Date : 30-Oct-2008  
 Starting Time : 30-Oct-2008 06:52:27 AM  
 End Time : 30-Oct-2008 08:08:27 AM  
 Scanning Time : xxxx secs

Product Data  
 Device Name : Hank-SmartAnt-5369-front  
 Serial No. : 5369  
 Type : Other  
 Model : HAN-E2-C1  
 Frequency : 5800.00 MHz  
 Max. Transmit Pwr : 1 W  
 Drift Time : 0 min(s)  
 Length : 120 mm  
 Width : 80 mm  
 Depth : 12 mm  
 Antenna Type : Internal  
 Orientation : Touch  
 Power Drift-Start : 0.027 W/kg  
 Power Drift-Finish: 0.028 W/kg  
 Power Drift (%) : 6.084  
 Picture : C:\alsas\bitmap\Hank-5369-front.bmp

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

Tissue Data  
 Type : BODY  
 Serial No. : 5800-B  
 Frequency : 5800.00 MHz  
 Last Calib. Date : 27-Oct-2008  
 Temperature : 20.00 °C  
 Ambient Temp. : 20.00 °C  
 Humidity : 50.00 RH%  
 Epsilon : 46.11 F/m  
 Sigma : 6.25 S/m  
 Density : 1000.00 kg/cu. m

## Probe Data

Name : APREL  
 Model : E-020  
 Type : E-Field Triangle  
 Serial No. : 225  
 Last Calib. Date : 03-May-2007  
 Frequency : 5800.00 MHz  
 Duty Cycle Factor: 1  
 Conversion Factor: 3.9  
 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

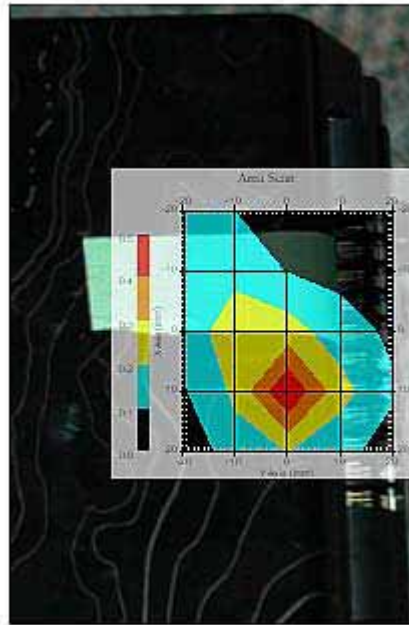
## Measurement Data

Crest Factor : 1  
 Scan Type : Complete  
 Tissue Temp. : 20.00 °C  
 Ambient Temp. : 20.00 °C  
 Set-up Date : 30-Oct-2008  
 Set-up Time : 6:51:57 AM  
 Area Scan : 5x5x1 : Measurement x=10mm, y=10mm, z=2mm  
 Zoom Scan : 8x8x17 : Measurement x=4mm, y=4mm, z=2mm

## Other Data

DUT Position : Touch  
 Separation : 0  
 Channel : Mid





1 gram SAR value : 0.356 W/kg  
 Zoom Scan Peak SAR : 0.940 W/kg





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**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	$(1-cp)^{1/2}$	$(10-cp)^{1/2}$	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	2
Liquid Conductivity (target)	5.0	rectangular	•3	0.7	0.5	2	1.4
Liquid Conductivity (meas.)	4.2	normal	1	0.7	0.5	2.9	2.1
Liquid Permittivity (target)	5.0	rectangular	•3	0.6	0.5	1.7	1.4
Liquid Permittivity (meas.)	4.3	normal	1	0.6	0.5	2.6	2.2
Combined Uncertainty		RSS				14.7	12.6
Combined Uncertainty (coverage factor=2)		Normal (k=2)				29.4	25.2



## SAR-Z Axis at Hotspot x:10.39 y:-0.10

