

## 8 - SAR TEST RESULTS

This page summarizes the results of the performed dosimetric evaluation. The plots with the corresponding SAR distributions, which reveal information about the location of the maximum SAR with respect to the device could be found in the following pages.

The worst case of the test result is 0.0088mW/g, which is within the limit of 1.6mW/g.

### 8.1 SAR Head Worst-Case Test Data

Ambient Temperature (°C): 23.0

Relative Humidity (%): 49.3

Position	Frequency (MHz)	Output Power (dBm)	Test Type	Antenna position	Liquid	Phantom	Notes / Accessories	Measured (mW/g)	Limit (mW/g)	Plot #
Left Head Cheek	836	25	Head	Extended	Head	Head	None	0.0082	1.6	1
	836	25		Retracted				0.0084		2
Left Head Tilted	836	25		Extended				0.0077		3
	836	25		Retracted				0.0073		4
Right Head Cheek	836	25		Extended				0.0088		5
	836	25		Retracted				0.0083		6
Right Head Tilted	836	25		Extended				0.0076		7
	836	25		Retracted				0.0073		8
Back 2.2cm Separation	836	25	Body Worn	Extended	Body	Body	Headset	0.0038		9
Back 2.2cm Separation	836	25		Retracted				0.0041		10

### 8.2 Plots of Test Result

The plots of test result were attached as reference.

GR8 Communications, Model: SCH-770 (Left Head, Cheek, Antenna position extented, Mid channel, Ambient Temp = 23 DegC, Liquid Temp = 21 Deg C, 08/11/2003)

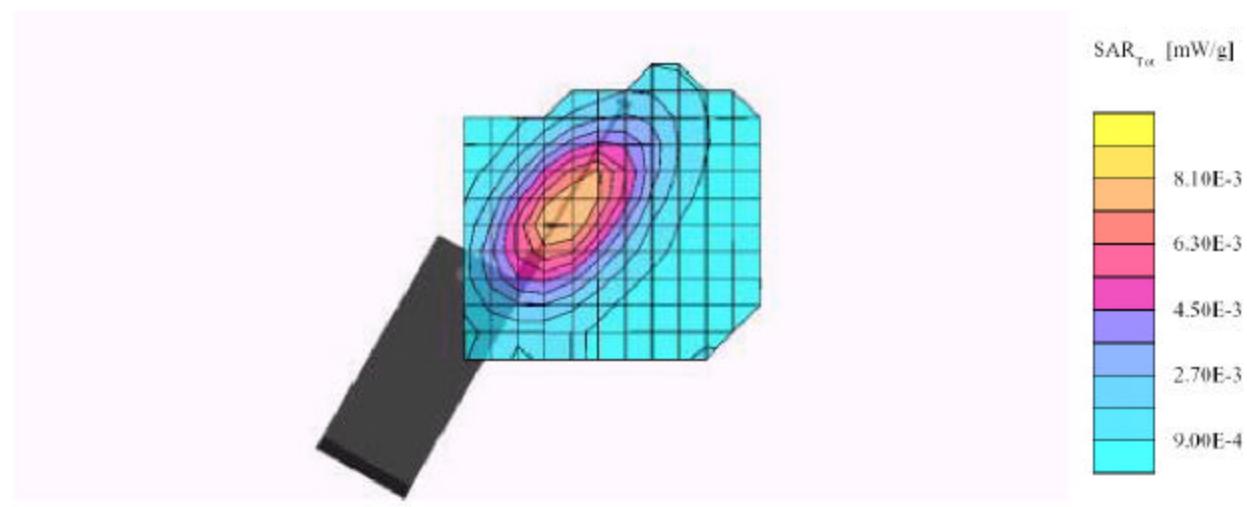
SAM Phantom: Left Hand Section; Position: (74°,60°); Frequency: 836 MHz

Probe: ET3DV6 - SN1604; ConvF(6.50,6.50,6.50); Crest factor: 1.0; (Head) 835 MHz:  $\sigma = 0.90 \text{ mho/m}$   $\epsilon_r = 39.6$   $\rho = 1.31 \text{ g/cm}^3$

Cube 5x5x7: SAR (1g): 0.0082 mW/g, SAR (10g): 0.0059 mW/g, (Worst-case extrapolation)

Coarse: Dx = 12.0, Dy = 12.0, Dz = 10.0

Powerdrift: -0.05 dB



**GR8 Communications, Model: SCH-770 (Left Head, Cheek, Antenna position retracted, Mid channel, Ambient Temp = 23 DegC, Liquid Temp = 21 Deg C, 08/11/2003)**

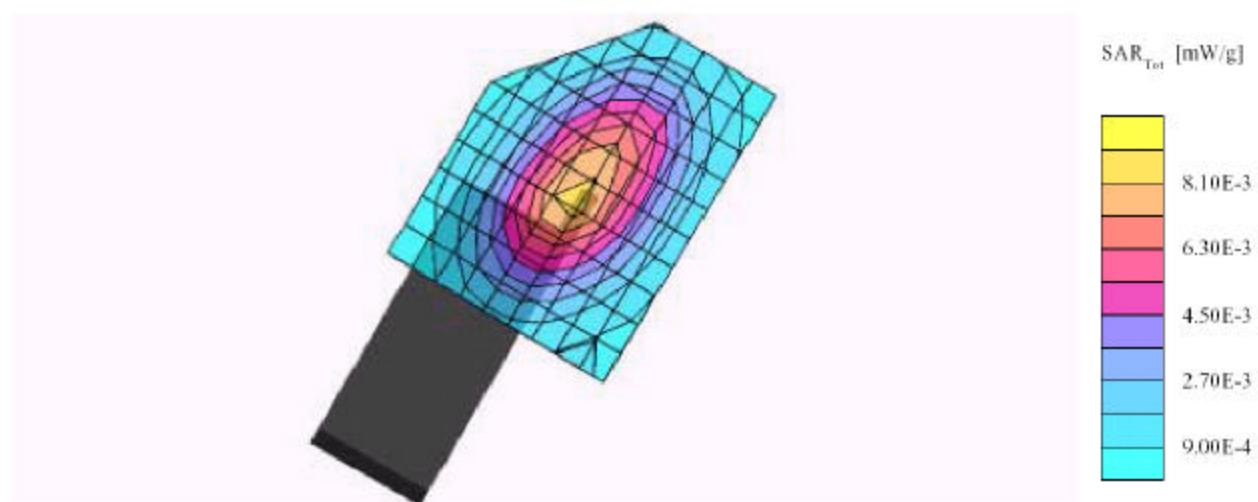
SAM Phantom; Left Hand Section; Position: (74°,60°); Frequency: 836 MHz

Probe: ET3DV6 - SN1604; ConvF(6.50,6.50,6.50); Crest factor: 1.0; (Head) 835 MHz;  $\sigma = 0.90 \text{ mho/m}$   $\epsilon_r = 39.6$   $\rho = 1.31 \text{ g/cm}^3$ 

Cube 5x5x7: SAR (1g): 0.0084 mW/g, SAR (10g): 0.0060 mW/g, (Worst-case extrapolation)

Coarse: Dx = 12.0, Dy = 10.0, Dz = 10.0

Powerdrift: 0.02 dB



Plot #2

**GR8 Communications, Model: SCH-770 (Left Head, Tilted, Antenna position extented, Mid channel, Ambient Temp = 23 DegC, Liquid Temp = 21 Deg C, 08/11/2003)**

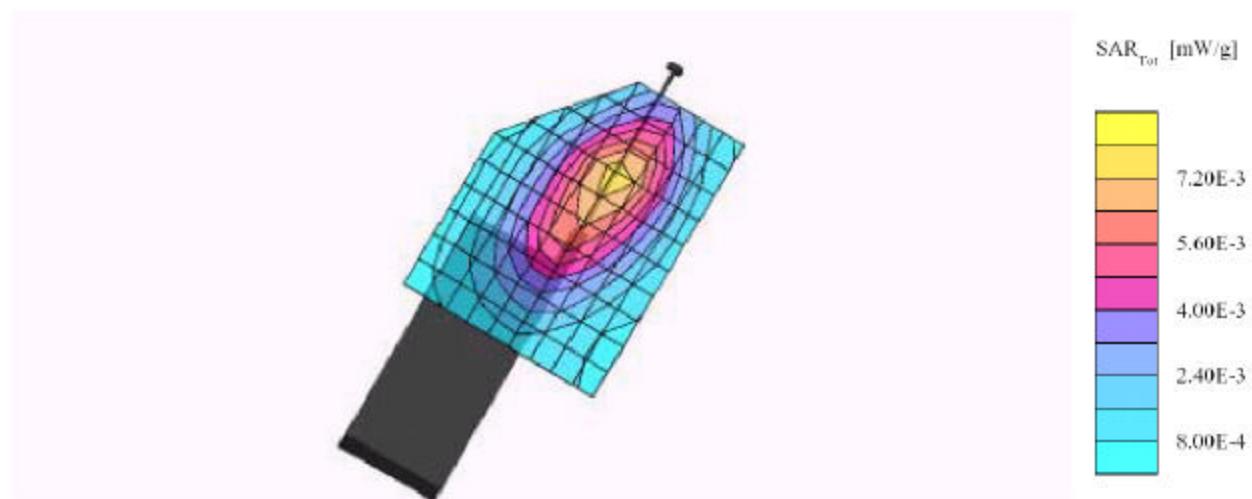
SAM Phantom; Left Hand Section; Position: (74°,60°); Frequency: 836 MHz

Probe: ET3DV6 - SN1604; ConvF(6.50,6.50,6.50); Crest factor: 1.0; (Head) 835 MHz:  $\sigma = 0.90 \text{ mho/m} \epsilon_r = 39.6 \rho = 1.31 \text{ g/cm}^3$ 

Cube 5x5x7: SAR (1g): 0.0077 mW/g, SAR (10g): 0.0052 mW/g, (Worst-case extrapolation)

Coarse: Dx = 12.0, Dy = 10.0, Dz = 10.0

Powerdrift: -0.02 dB



Plot #3

**GR8 Communications, Model: SCH-770 (Left Head, Tilted, Antenna position retracted, Mid channel, Ambient Temp = 23 DegC, Liquid Temp = 21 Deg C, 08/11/2003)**

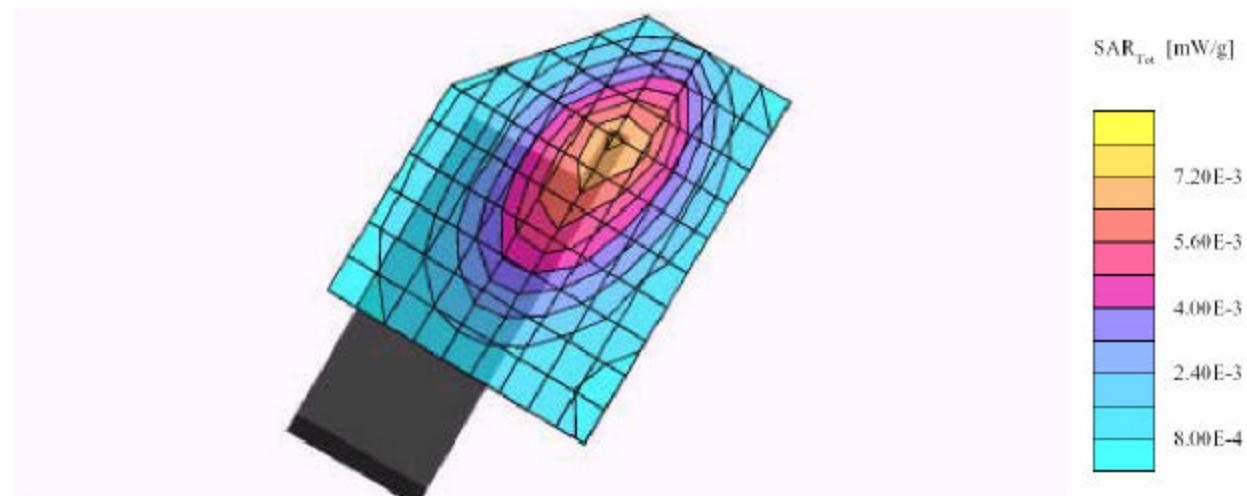
SAM Phantom; Left Hand Section; Position: (74°,60°); Frequency: 836 MHz

Probe: ET3DV6 - SN1604; ConvF(6.50,6.50,6.50); Crest factor: 1.0; (Head) 835 MHz:  $\sigma = 0.90 \text{ mho/m}$   $\epsilon_r = 39.6 \text{ p} = 1.31 \text{ g/cm}^3$ 

Cube 5x5x7: SAR (1g): 0.0073 mW/g, SAR (10g): 0.0049 mW/g, (Worst-case extrapolation)

Course: Dx = 12.0, Dy = 10.0, Dz = 10.0

Powerdrift: -0.00 dB



Plot #4

**GR8 Communications, Model: SCH-770 (Right Head, Cheek, Antenna position extented, Mid channel, Ambient Temp = 23 DegC, Liquid Temp = 21 Deg C, 08/11/2003)**

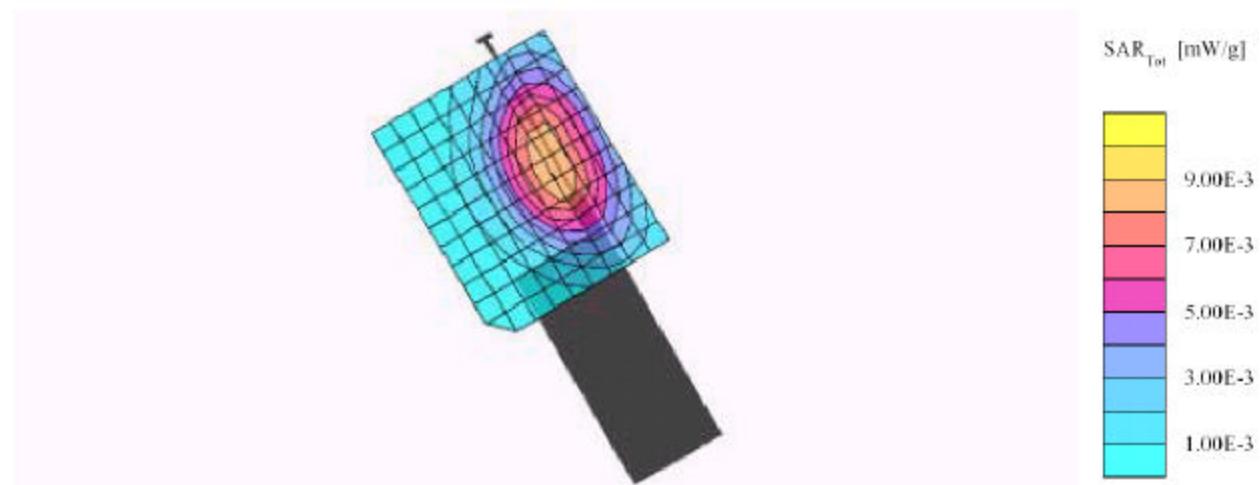
SAM Phantom; Right Hand Section; Position: (90°,300°); Frequency: 836 MHz

Probe: ET3DV6 - SN1604; ConvF(6.50,6.50,6.50); Crest factor: 1.0; (Head) 835 MHz:  $\sigma = 0.90 \text{ mho/m}$   $\epsilon_r = 39.6$   $\rho = 1.31 \text{ g/cm}^3$ 

Cube 5x5x7: SAR (1g): 0.0088 mW/g, SAR (10g): 0.0064 mW/g, (Worst-case extrapolation)

Coarse: Dx = 10.0, Dy = 10.0, Dz = 8.0

Powerdrift: -0.02 dB



Plot #5

GR8 Communications, Model: SCH-770 (Right Head, Cheek, Antenna position retracted, Mid channel, Ambient Temp = 23 DegC, Liquid Temp = 21 Deg C, 08/11/2003)

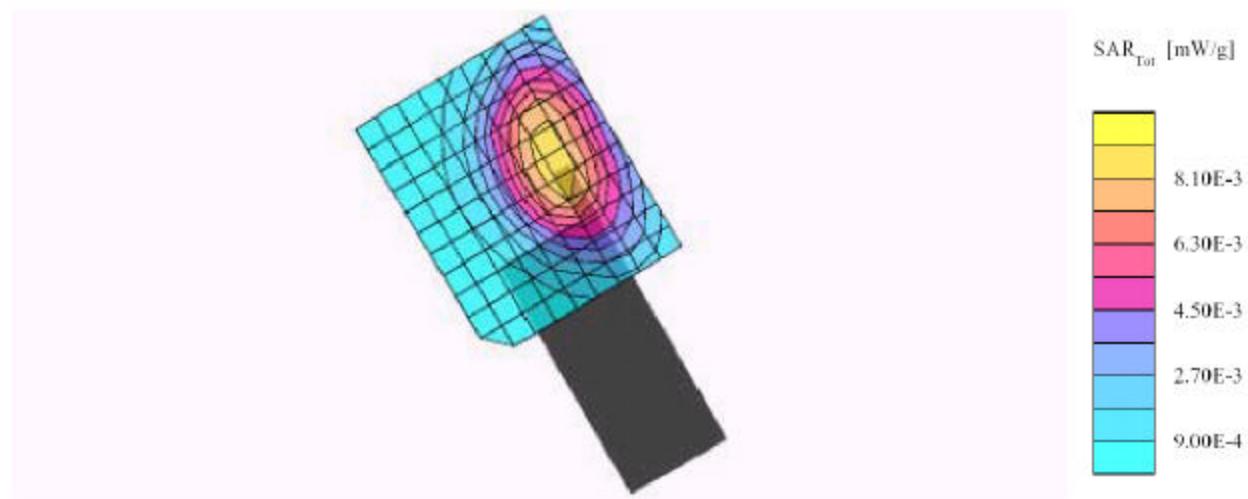
SAM Phantom: Right Hand Section; Position: (90°,300°); Frequency: 836 MHz

Probe: ET3DV6 - SN1604; ConvF(6.50,6.50,6.50); Crest factor: 1.0; (Head) 835 MHz:  $\sigma = 0.90 \text{ mho/m}$   $\epsilon_r = 39.6$   $\rho = 1.31 \text{ g/cm}^3$

Cube 5x5x7: SAR (1g): 0.0083 mW/g, SAR (10g): 0.0060 mW/g. (Worst-case extrapolation)

Coarse: Dx = 10.0, Dy = 10.0, Dz = 8.0

Powerdrift: 0.01 dB



Plot #6

**GR8 Communications, Model: SCH-770 (Right Head, Tilted, Antenna position extented, Mid channel, Ambient Temp = 23 DegC, Liquid Temp = 21 Deg C, 08/11/2003)**

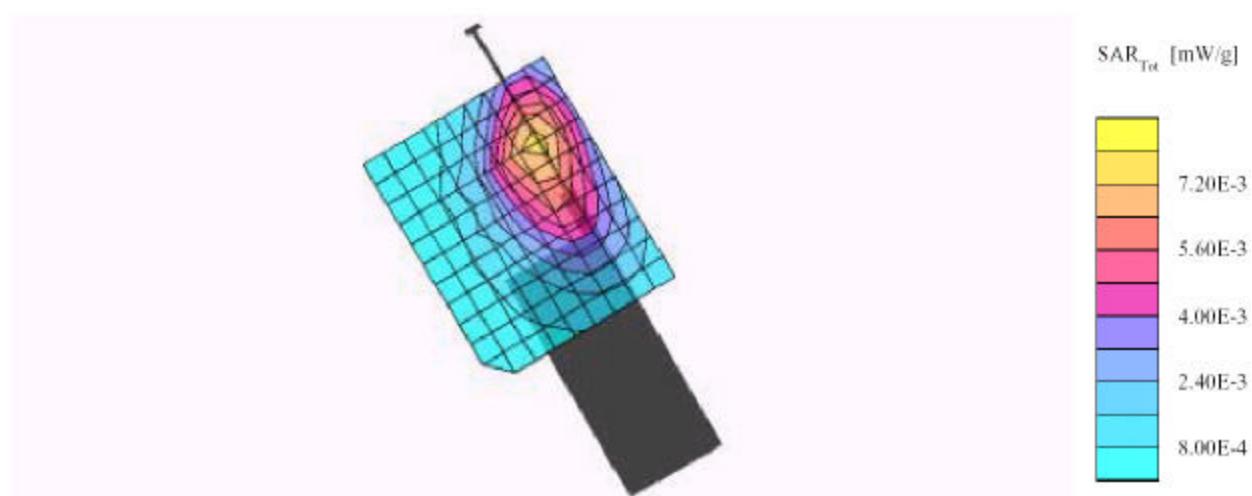
SAM Phantom; Right Hand Section; Position: (90°,300°); Frequency: 836 MHz

Probe: ET3DV6 - SN1604; ConvF(6.50,6.50,6.50); Crest factor: 1.0; (Head) 835 MHz:  $\sigma = 0.90 \text{ mho/m} \epsilon_r = 39.6 \rho = 1.31 \text{ g/cm}^3$ 

Cube 5x5x7: SAR (1g): 0.0076 mW/g, SAR (10g): 0.0052 mW/g, (Worst-case extrapolation)

Coarse: Dx = 10.0, Dy = 10.0, Dz = 8.0

Powerdrift: 0.00 dB



Plot #7

GR8 Communications, Model: SCH-770 (Right Head, Tilted, Antenna position retracted, Mid channel, Ambient Temp = 23 DegC, Liquid Temp = 21 Deg C, 08/11/2003)

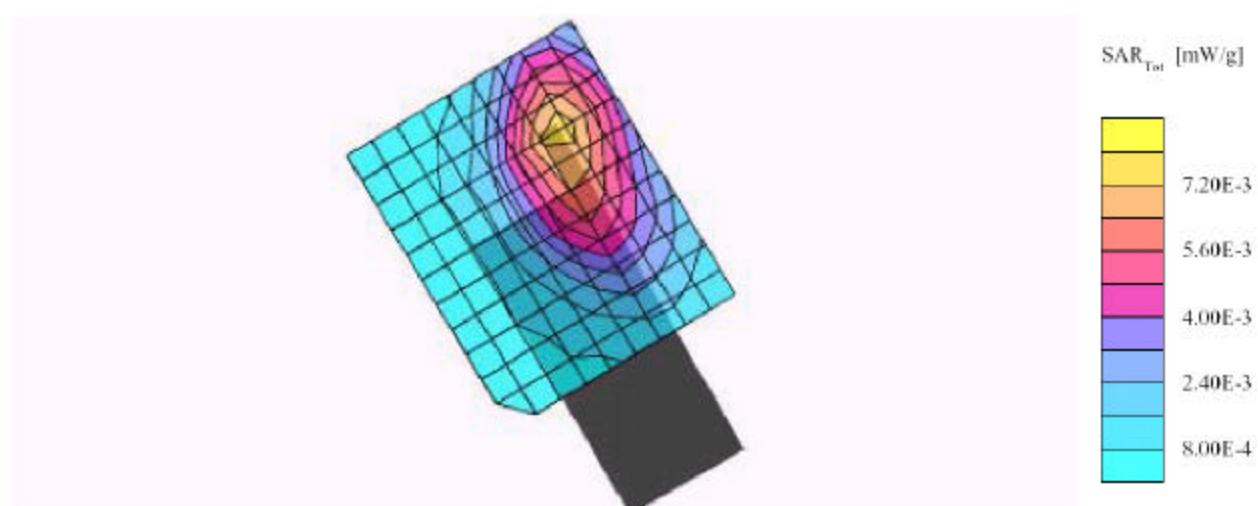
SAM Phantom; Right Hand Section; Position: (90°,300°); Frequency: 836 MHz

Probe: ET3DV6 - SN1604; ConvF(6.50,6.50,6.50); Crest factor: 1.0; (Head) 835 MHz;  $\sigma = 0.90 \text{ mho/m}$   $\epsilon_r = 39.6$   $\rho = 1.31 \text{ g/cm}^3$

Cube 5x5x7: SAR (1g): 0.0073 mW/g, SAR (10g): 0.0050 mW/g, (Worst-case extrapolation)

Coarse: Dx = 10.0, Dy = 10.0, Dz = 8.0

Powerdrift: -0.03 dB



Plot #8

GR8 Communications, Model: SCH-770 (Body worn with back side separation distance of 2.2 cm to the flat phantom with headset, Antenna position extented, Mid channel, Ambient Temp = 23 DegC, Liquid Temp = 21 Deg C, 08/11/2003)

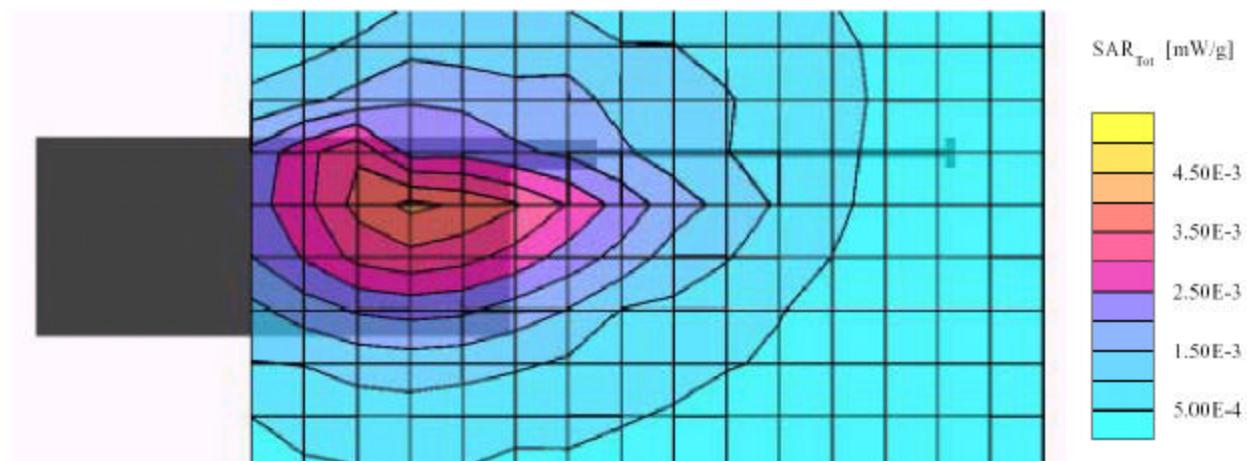
SAM Phantom: Flat Section: Position: (90°,90°); Frequency: 836 MHz

Probe: ET3DV6 - SN1604; ConvF(6.40,6.40,6.40); Crest factor: 1.0; (Body) 835 MHz:  $\sigma = 0.96 \text{ mho/m}$   $\epsilon_r = 55.2$   $\rho = 1.31 \text{ g/cm}^3$

Cube 5x5x7: SAR (1g): 0.0038 mW/g, SAR (10g): 0.0027 mW/g, (Worst-case extrapolation)

Coarse: Dx = 12.0, Dy = 12.0, Dz = 10.0

Powerdrift: -0.03 dB



Plot #9

GR8 Communications, Model: SCH-770 (Body worn with back side separation distance of 2.2 cm to the flat phantom with headset, Antenna position retracted, Mid channel, Ambient Temp = 23 DegC, Liquid Temp = 21 Deg C, 08/11/2003)

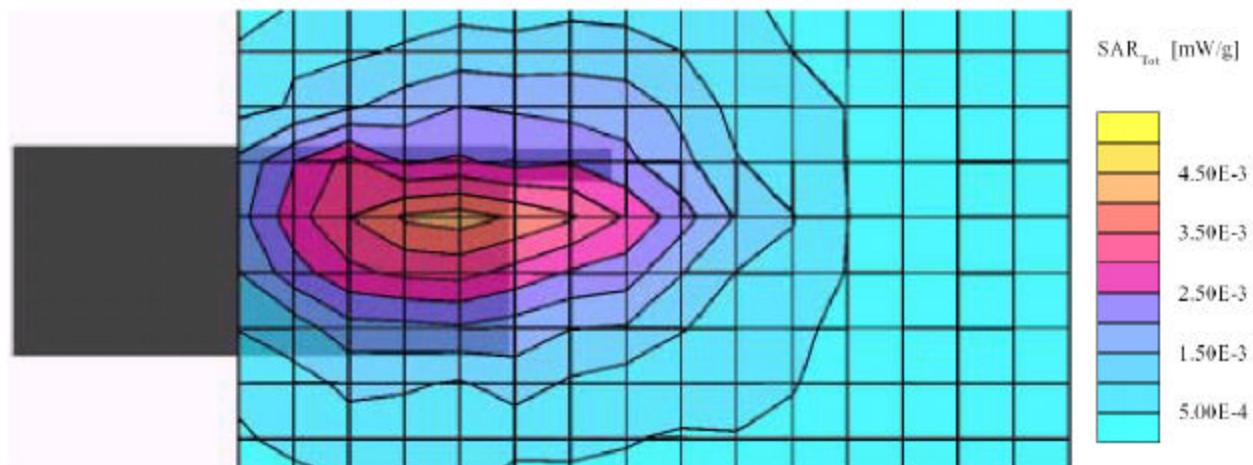
SAM Phantom; Flat Section; Position: (90°,90°); Frequency: 836 MHz

Probe: ET3DV6 - SN1604; ConvF(6,40,6,40,6,40); Crest factor: 1.0; (Body) 835 MHz;  $\sigma = 0.96 \text{ mho/m}$   $\epsilon_r = 55.2$   $\rho = 1.31 \text{ g/cm}^3$

Cube 5x5x7: SAR (1g): 0.0041 mW/g, SAR (10g): 0.0029 mW/g, (Worst-case extrapolation)

Coarse: Dx = 12.0, Dy = 12.0, Dz = 10.0

Powerdrift: -0.00 dB



Plot #10

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## EXHIBIT A - SAR SETUP PHOTOGRAPHS

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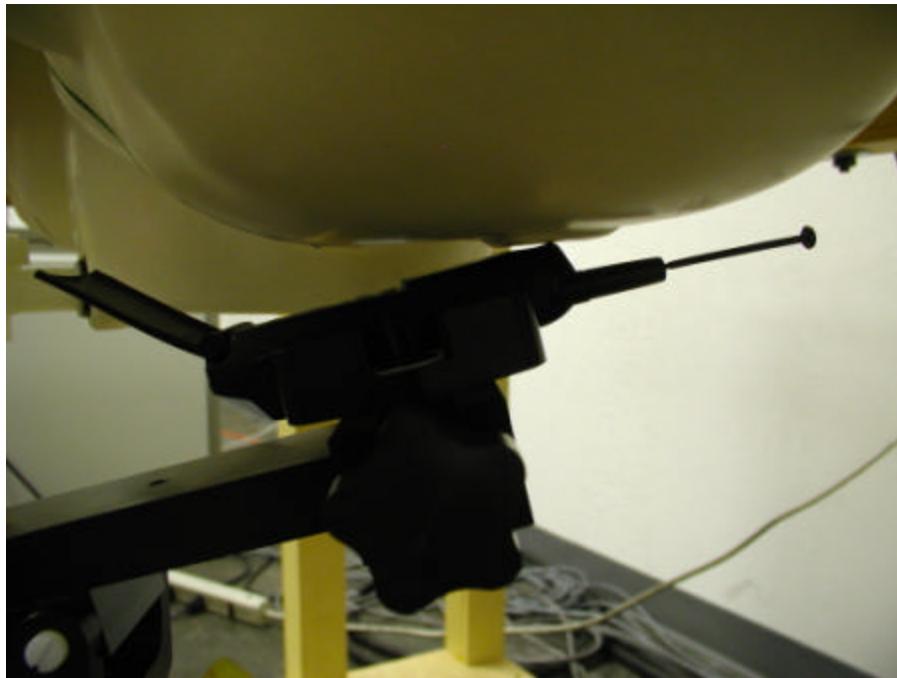
**Left Head Cheek Touching Phantom, Antenna Extended**



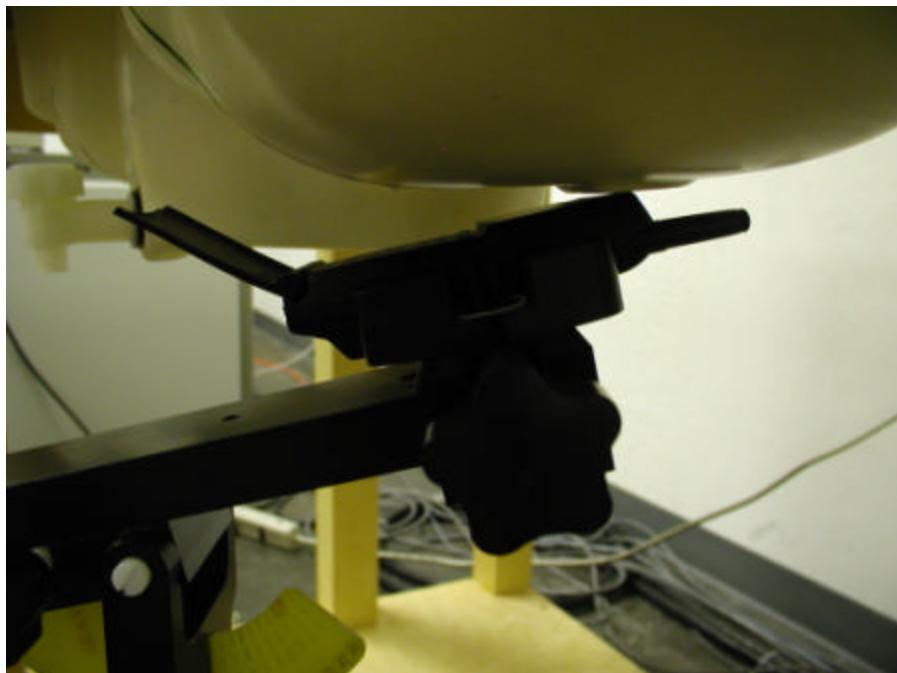
**Left Head Cheek Touching Phantom, Antenna Retracted**



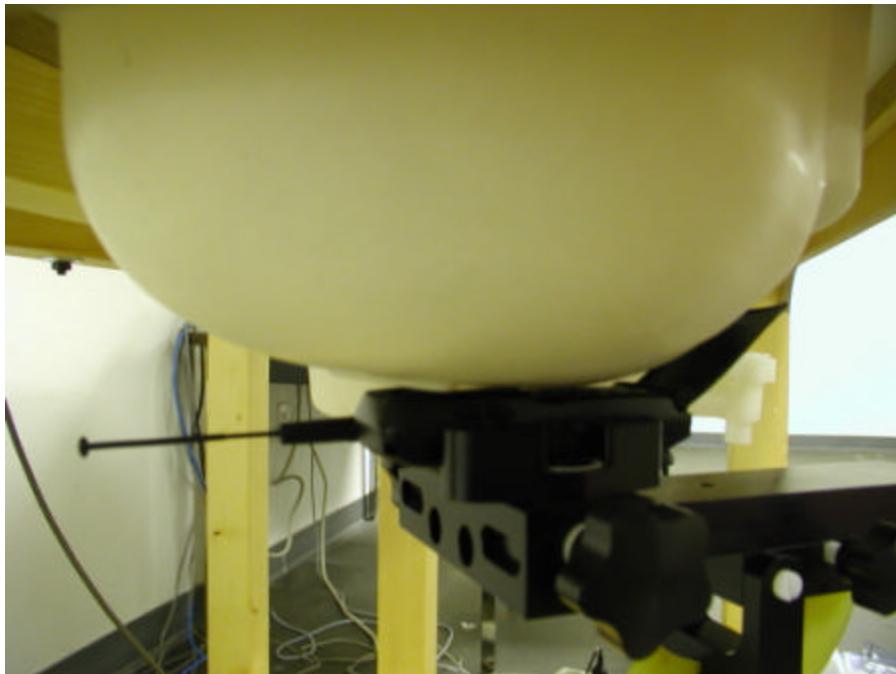
**Left Head Tilted Touching Phantom, Antenna Extended**



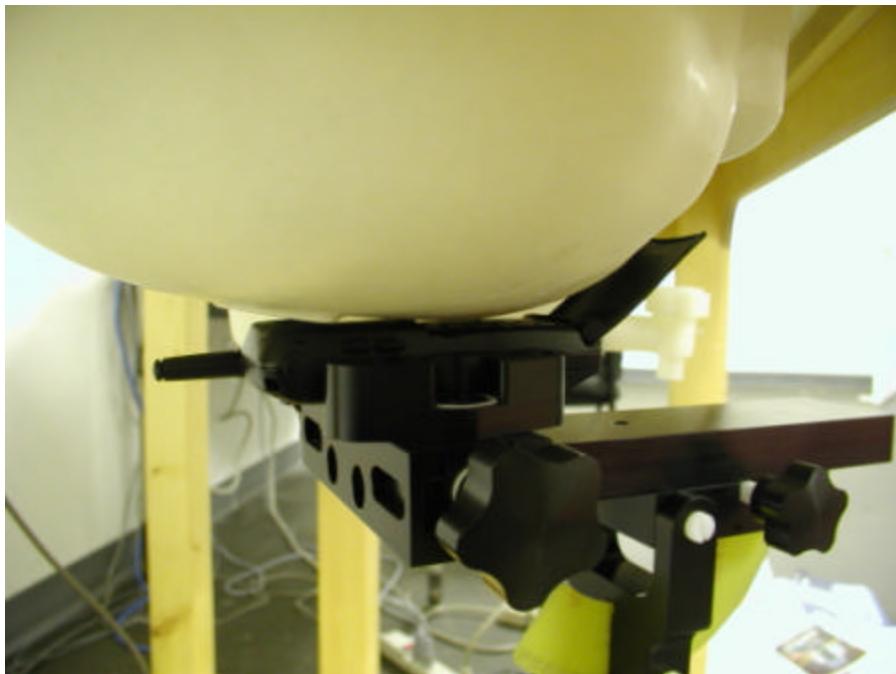
**Left Head Tilted Touching Phantom, Antenna Retracted**



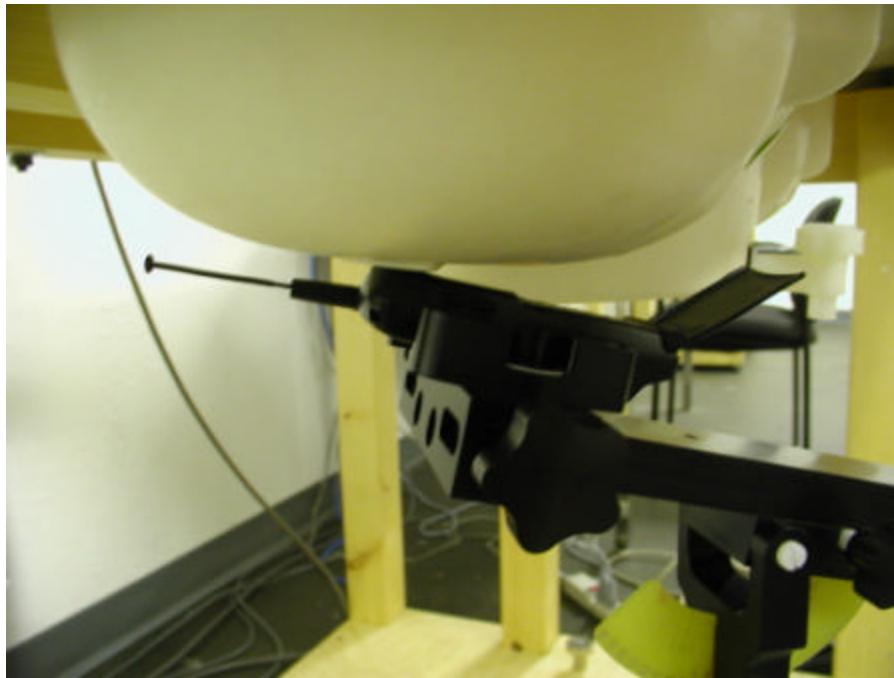
**Right Head Cheek Touching Phantom, Antenna Extended**



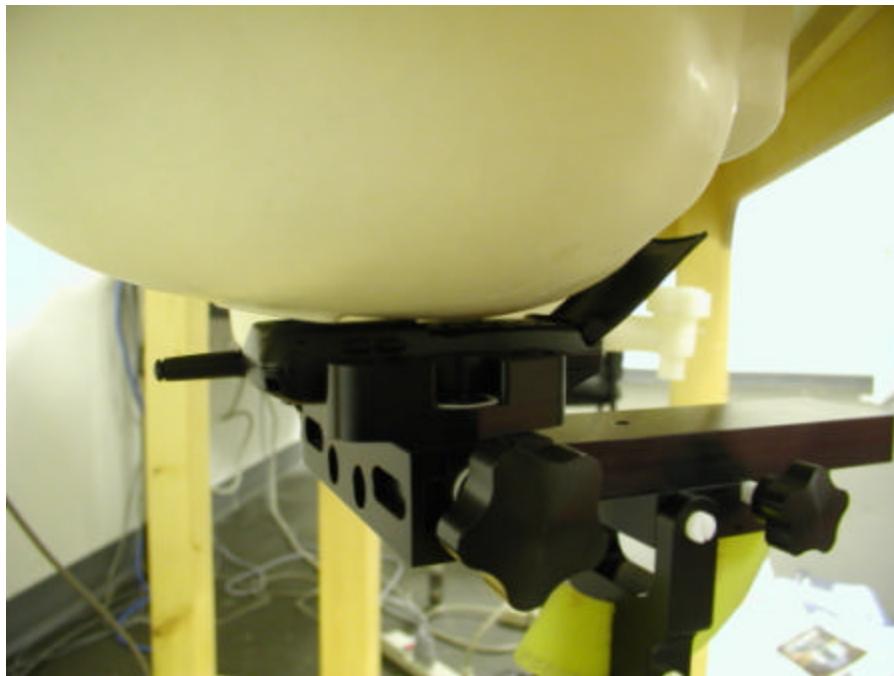
**Right Head Cheek Touching Phantom, Antenna Retracted**

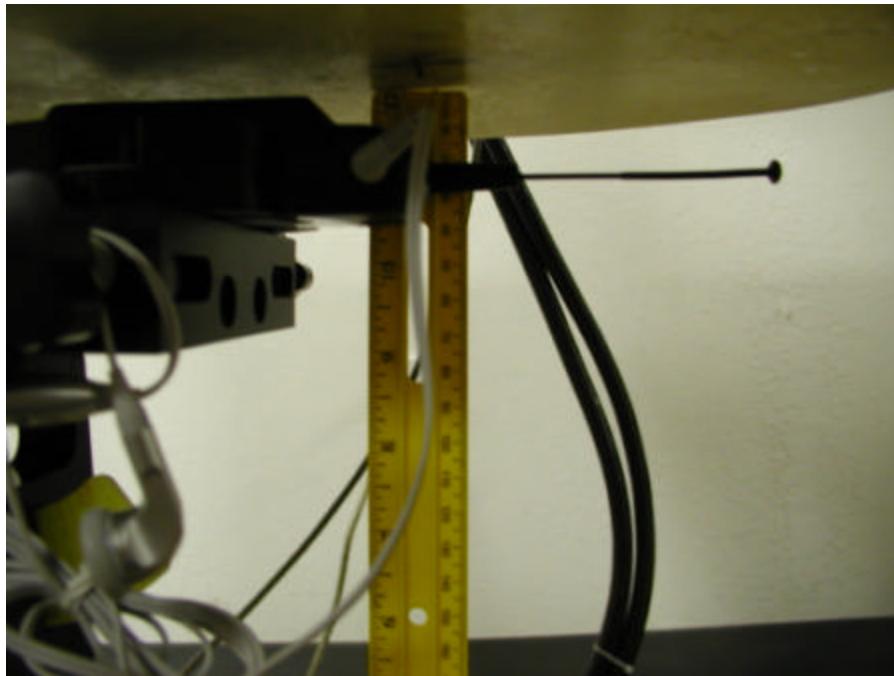


**Right Head Tilted Touching Phantom, Antenna Extended**



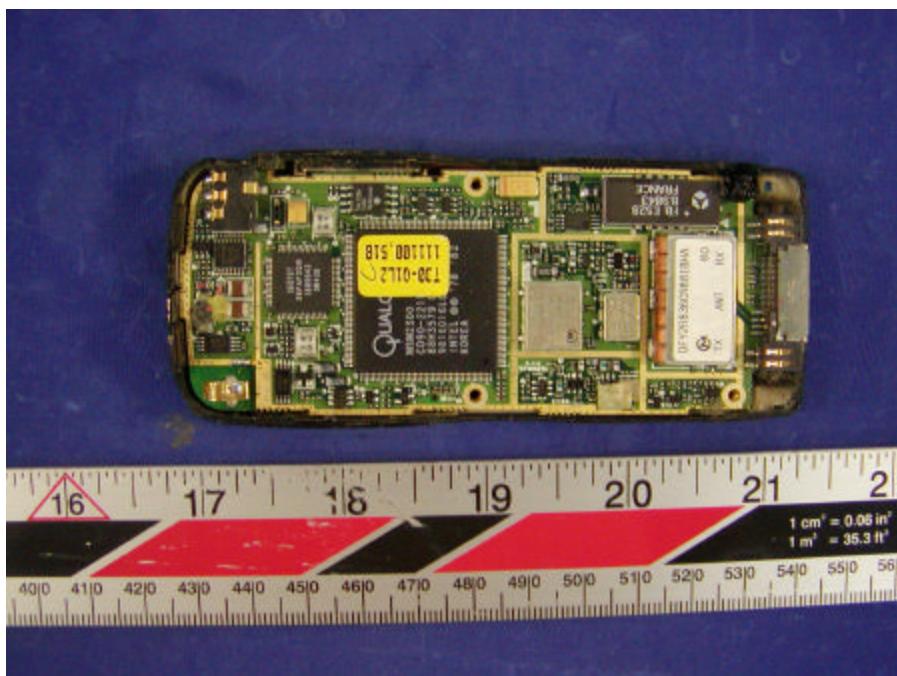
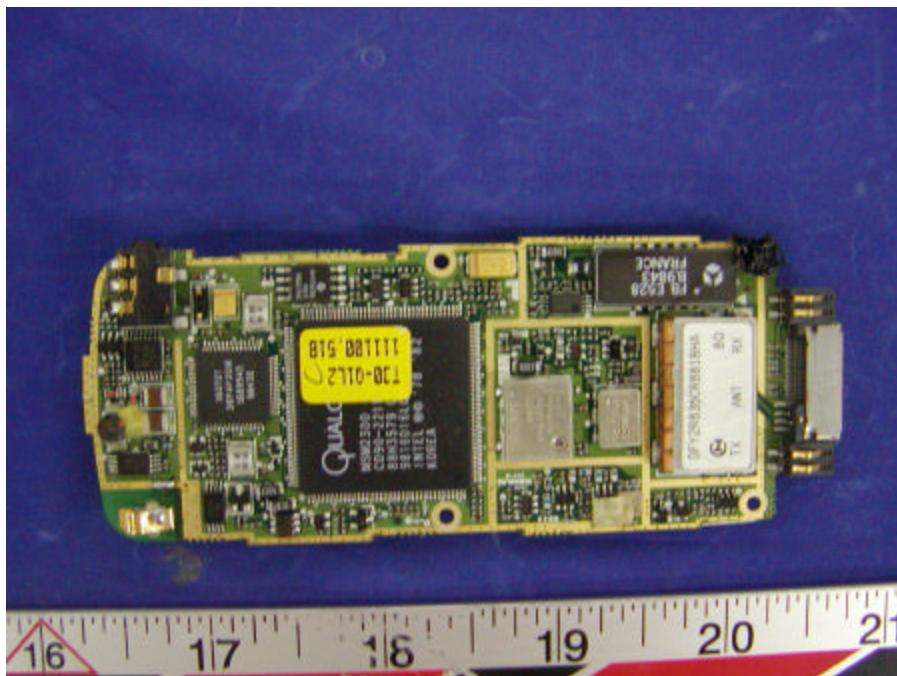
**Right Head Tilted Touching Phantom, Antenna Retracted**

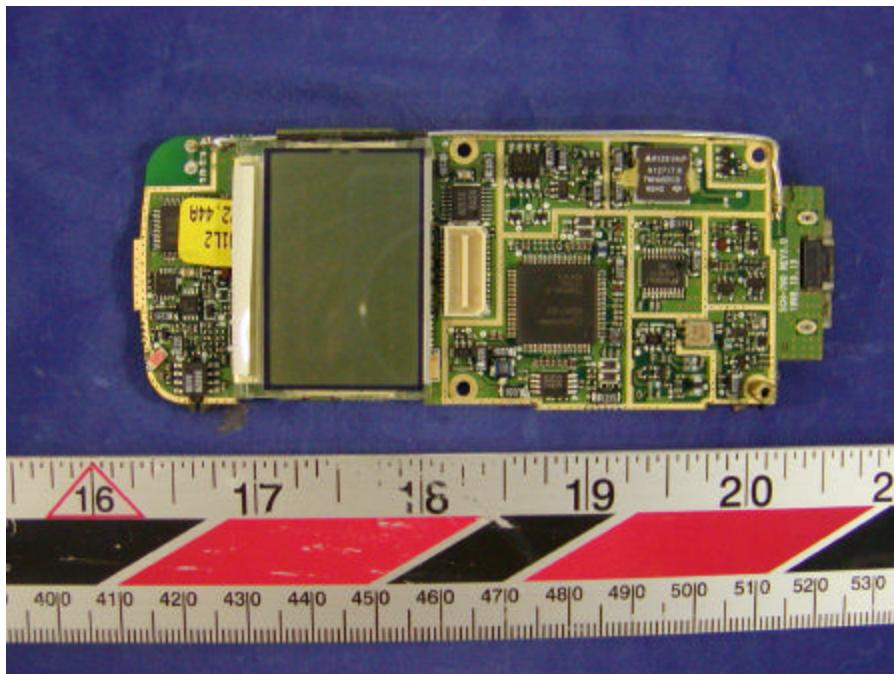


**Back 2.2cm Separation to Flat Phantom with Headset, Antenna Extended****Back 2.2cm Separation to Flat Phantom with Headset, Antenna Retracted**

**EXHIBIT B – EUT PHOTOGRAPHS****EUT - Chassis Front View****EUT – Chassis Rear View**

**Battery Charger****EUT – Antenna View**

**EUT – Board and Housing View****EUT – Board Top View**

**EUT – Board Solder View****EUT – Battery View**

**EXHIBIT C – Z-Axis**

GR8 Communications, Model: SCH-770 (Right Head, Cheek, Antenna position extented, Mid channel, Ambient Temp = 23 Deg C, Liquid Temp = 21 Deg C, 08/11/2003)

SAM Phantom; Section; Position: ; Frequency: 836 MHz

Probe: ET3DV6 - SN1604; ConvF(6.50,6.50,6.50); Crest factor: 1.0; (Head) 835 MHz:  $\sigma = 0.90 \text{ mho/m}$   $\epsilon_r = 41.6$   $\rho = 1.31 \text{ g/cm}^3$

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Z-Axis: Dx = 0.0, Dy = 0.0, Dz = 2.0

