APPENDIX B Plots Of The SAR Measurements

Plots of the measured SAR distributions inside the phantom are given in this Appendix for all tested configurations. The spatial peak SAR values were assessed with the procedure described in this report.

Table 18: 1900 MHz GSM SAR Plots

Test Position	Plot Number	Test Channel
Tilted Left	1	661
Touch Left	2	661
	Z axis Graphs for Plots 1 to 2	
Tilted Right	3	661
Touch Right	4	512
	5	661
	6	810
	Z axis Graphs for Plots 3 to 6	
Body Worn Position Front	7	661
Body Worn	8	512
Position Back	9	661
	10	810
	Z axis Graphs for Plots 7 to 10	

Table 19: 1900 MHz GPRS SAR Plots

Test Position	Plot Number	Test Channel
Tilted Left	11	661
Touch Left	12	661
	Z axis Graphs for Plots 11 to 12	
Tilted Right	13	661
Touch Right	14	512
	15	661
	16	810
	Z axis Graphs for Plots 13 to 16	
Body Worn	17	512
Position Front	18	661
	19	810
	Z axis Graphs for Plots 17 to 19	
Body Worn	20	512
Position Back	21	661
	22	810
	Z axis Graphs for Plots 20 to 22	

Table 20: SAR Validation Plots

Plot Number	Date	Frequency
Plot 23	7th Dec. 2004	1800 MHz
Plot 24	8th May 2004	1800 MHz
Plot 25	11th Dec. 2004	1800 MHz

Z axis Graphs for Plots 23 to 25

Test Date: 07 December 2004

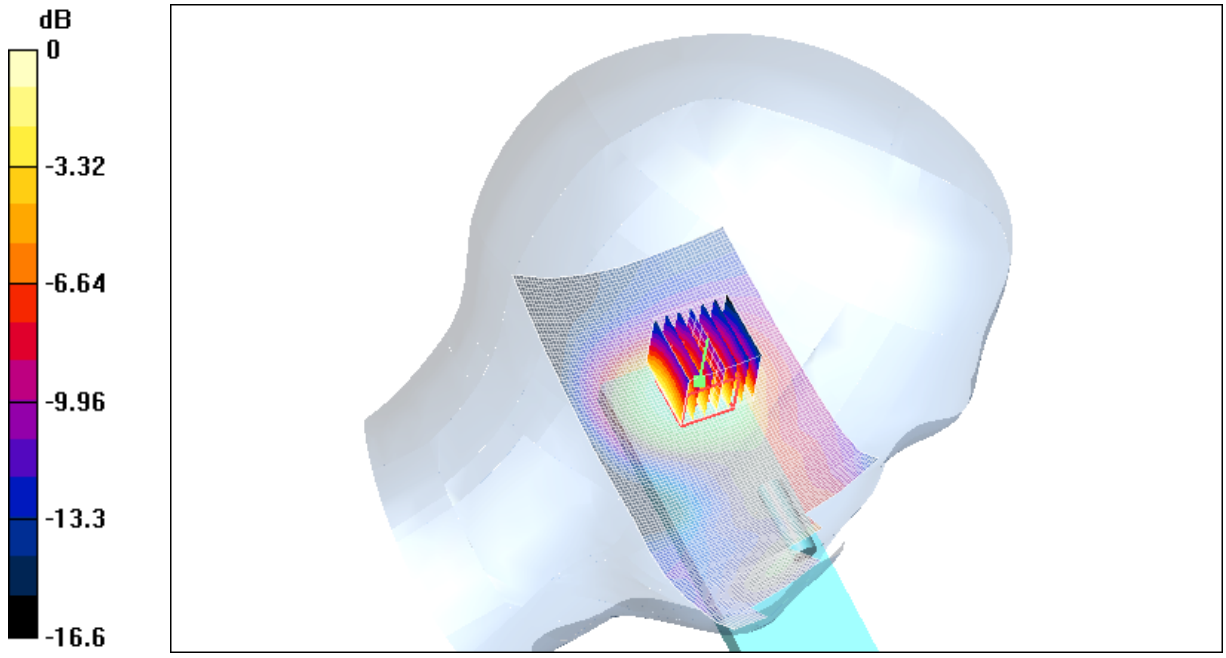
File Name: Tilted Left 1900 MHz GSM (DAE900 Probe1377) 07-12-04.da4

DUT: Voxson GSM Phone; Antenna: Fixed Length (Non-Extendable); Antenna: Fixed Length (Non-Extendable); Type: VX750; Serial: 20041105

* Communication System: PCS; Frequency: 1880 MHz; Duty Cycle: 1:8.3
* Medium parameters used: σ = 1.43822; mho/m, ε_r = 38.8705; ρ = 1000 kg/m^3
- Electronics: DAE4 Sn900; Probe: ET3DV6 - SN1377; ConvF(5.12, 5.12, 5.12)
- Phantom: SAM 22; Serial: 1260; Phantom section: Left Section

Channel 661 Test/Area Scan (141x61x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.071 mW/g

Channel 661 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 6.54 V/m; Power Drift = -0.0 dB
Peak SAR (extrapolated) = 0.088 W/kg
SAR(1 g) = 0.060 mW/g; SAR(10 g) = 0.037 mW/g
Maximum value of SAR (measured) = 0.065 mW/g



0 dB = 0.065mW/g

SAR MEASUREMENT PLOT 1

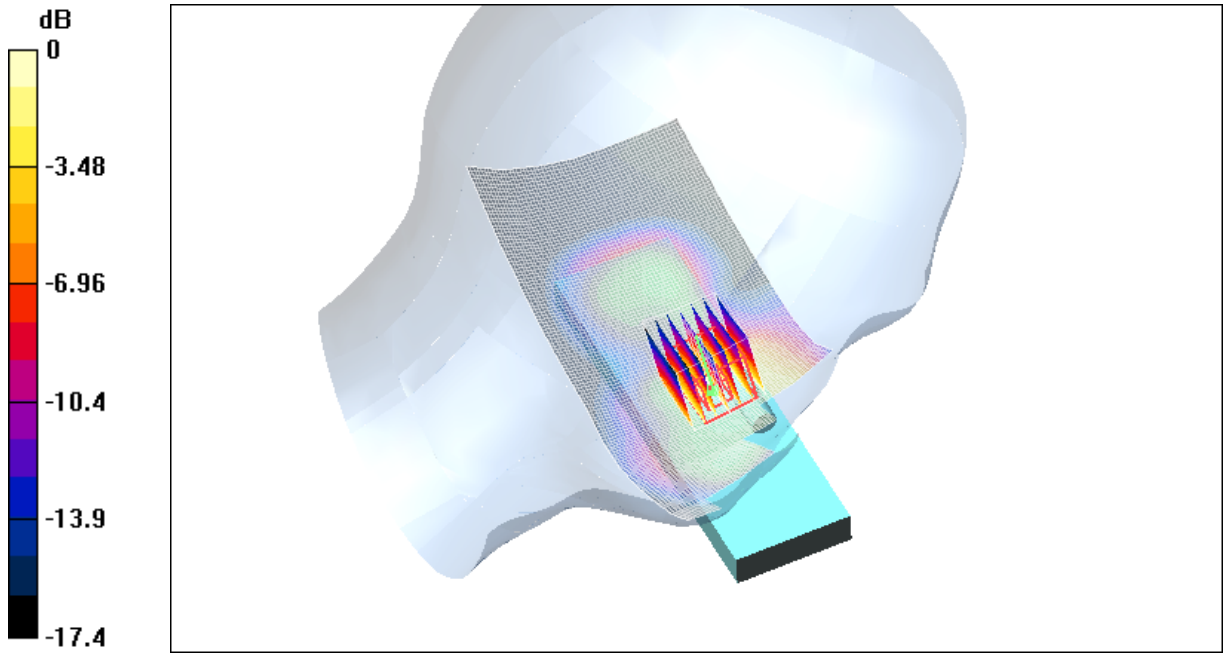
Ambient Temperature	**21.8 Degrees Celsius**
Liquid Temperature	**21.0 Degrees Celsius**
Humidity	**64.0 %**

Test Date: 07 December 2004
File Name: Touch Left 1900 MHz GSM (DAE900 Probe1377) 07-12-04.da4
DUT: Voxson GSM Phone; Antenna: Fixed Length (Non-Extendable); Type: VX750; Serial: 20041105

* Communication System: PCS; Frequency: 1880 MHz; Duty Cycle: 1:8.3
* Medium parameters used: σ = 1.43822; mho/m, ε_r = 38.8705; ρ = 1000 kg/m^3
- Electronics: DAE4 Sn900; Probe: ET3DV6 - SN1377; ConvF(5.12, 5.12, 5.12)
- Phantom: SAM 22; Serial: 1260; Phantom section: Left Section

Channel 661 Test/Area Scan (141x61x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.306 mW/g

Channel 661 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 7.85 V/m; Power Drift = -0.0 dB
Peak SAR (extrapolated) = 0.425 W/kg
SAR(1 g) = 0.263 mW/g; SAR(10 g) = 0.145 mW/g
Maximum value of SAR (measured) = 0.290 mW/g

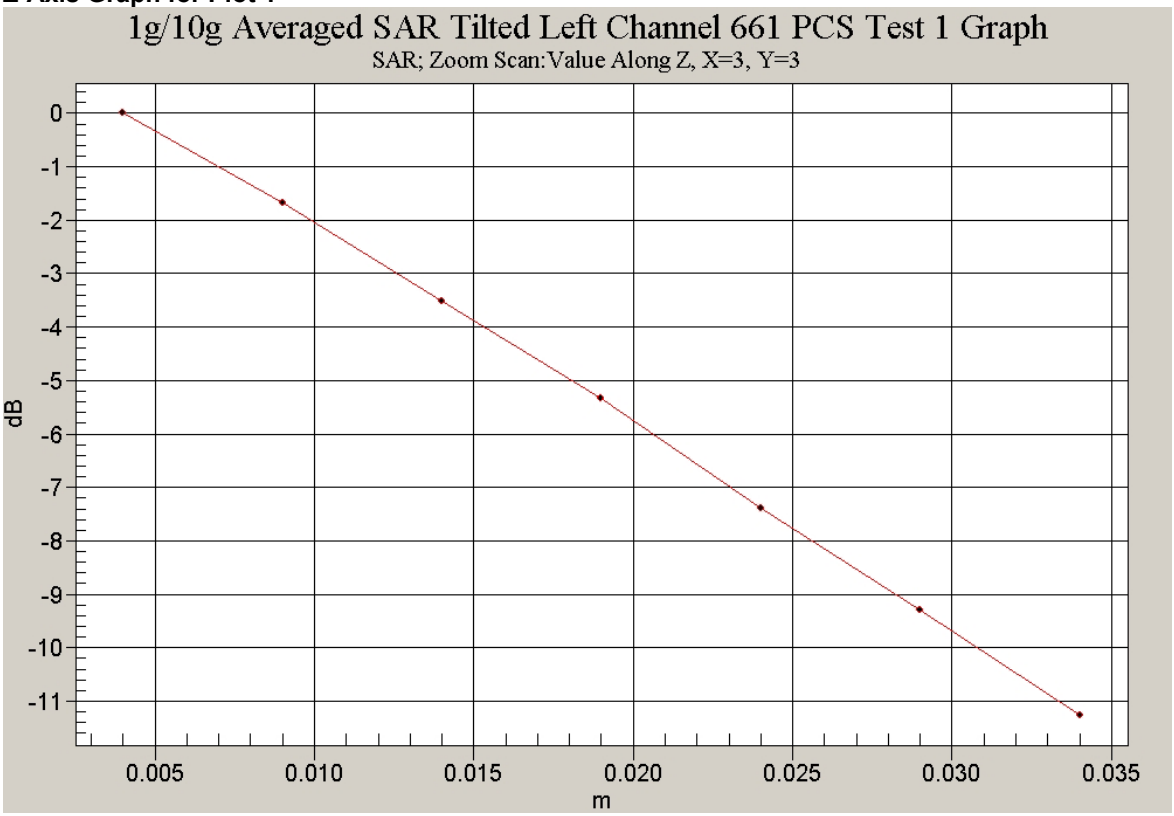


0 dB = 0.290mW/g

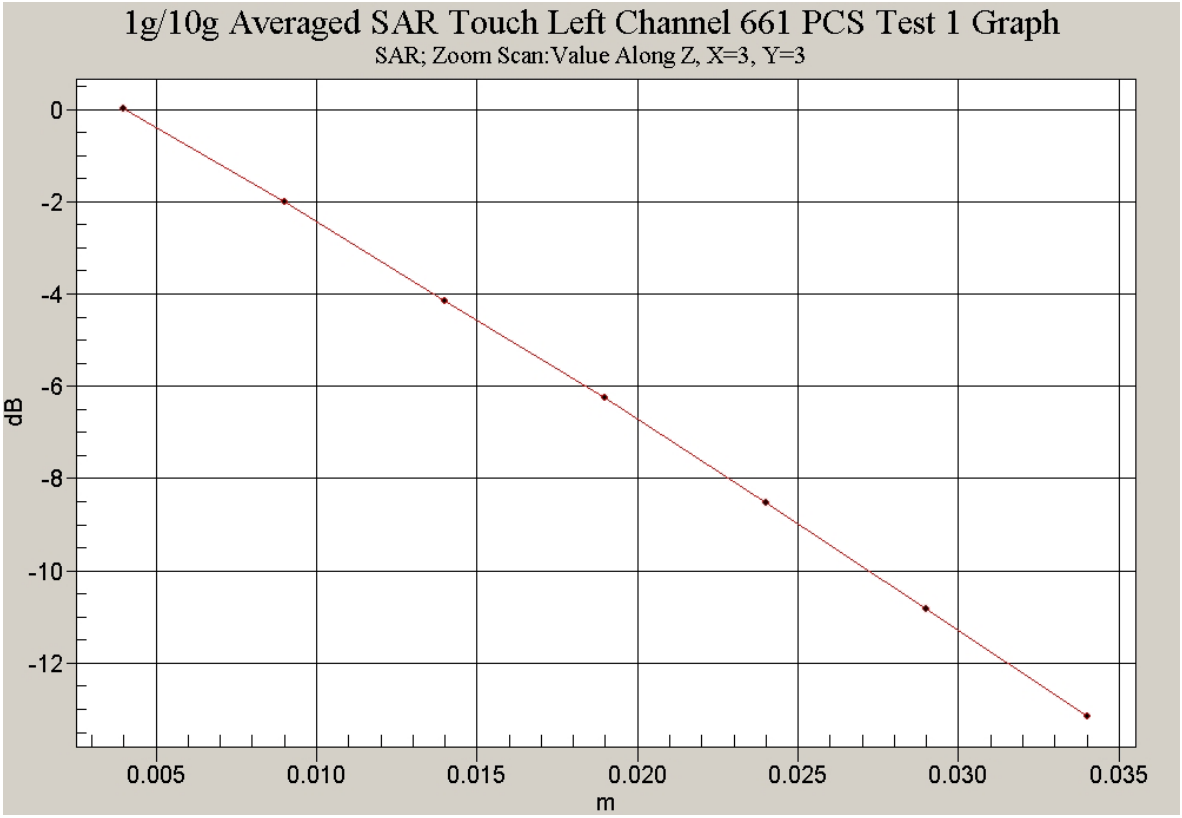
SAR MEASUREMENT PLOT 2

Ambient Temperature	**21.8 Degrees Celsius**
Liquid Temperature	**21.0 Degrees Celsius**
Humidity	**64.0 %**

Z-Axis Graph for Plot 1



Z-Axis Graph for Plot 2

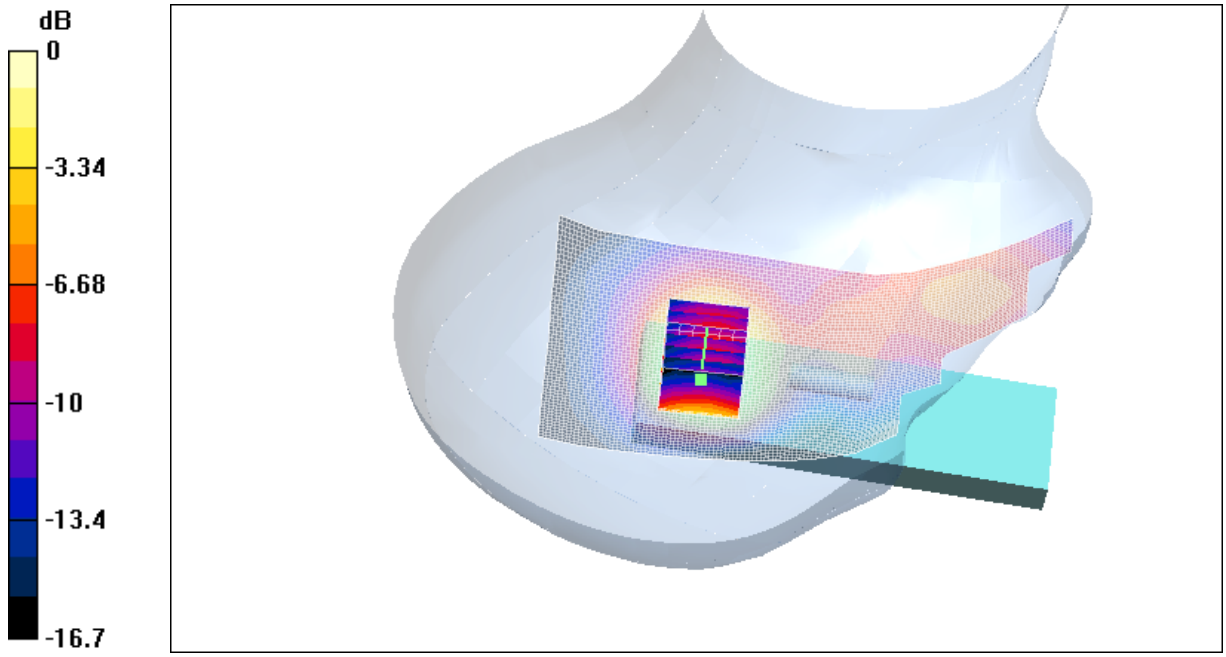


Test Date: 07 December 2004
File Name: Tilted Right 1900 MHz GSM (DAE900 Probe1377) 07-12-04.da4
DUT: Voxson GSM Phone; Antenna: Fixed Length (Non-Extendable); Type: VX750; Serial: 20041105

* Communication System: PCS; Frequency: 1880 MHz; Duty Cycle: 1:8.3
* Medium parameters used: σ = 1.43822; mho/m, ε_r = 38.8705; ρ = 1000 kg/m^3
- Electronics: DAE4 Sn900; Probe: ET3DV6 - SN1377; ConvF(5.12, 5.12, 5.12)
- Phantom: SAM 22; Serial: 1260; Phantom section: Right Section

Channel 661 Test/Area Scan (141x61x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.072 mW/g

Channel 661 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 6.68 V/m; Power Drift = -0.0 dB
Peak SAR (extrapolated) = 0.091 W/kg
SAR(1 g) = 0.063 mW/g; SAR(10 g) = 0.039 mW/g
Maximum value of SAR (measured) = 0.068 mW/g



0 dB = 0.068mW/g

SAR MEASUREMENT PLOT 3

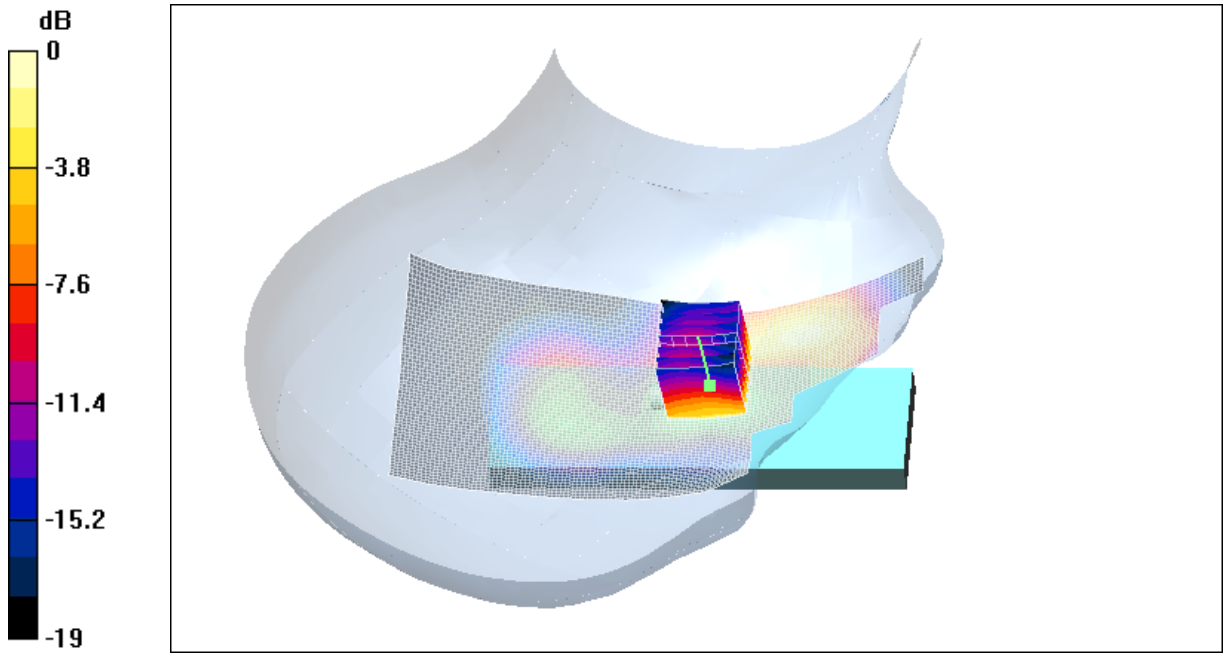
Ambient Temperature	**21.8 Degrees Celsius**
Liquid Temperature	**21.0 Degrees Celsius**
Humidity	**64.0 %**

Test Date: 07 December 2004
File Name: Touch Right 1900 MHz GSM (DAE900 Probe1377) 07-12-04.da4
DUT: Voxson GSM Phone; Antenna: Fixed Length (Non-Extendable); Type: VX750; Serial: 20041105

* Communication System: PCS; Frequency: 1850.2 MHz; Duty Cycle: 1:8.3
* Medium parameters used: σ = 1.42355; mho/m, ε_r = 38.9928; ρ = 1000 kg/m^3
- Electronics: DAE4 Sn900; Probe: ET3DV6 - SN1377; ConvF(5.12, 5.12, 5.12)
- Phantom: SAM 22; Serial: 1260; Phantom section: Right Section

Channel 512 Test/Area Scan (141x61x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.379 mW/g

Channel 512 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 7.02 V/m; Power Drift = -0.1 dB
Peak SAR (extrapolated) = 0.685 W/kg
SAR(1 g) = 0.333 mW/g; SAR(10 g) = 0.183 mW/g
Maximum value of SAR (measured) = 0.356 mW/g



0 dB = 0.356mW/g

SAR MEASUREMENT PLOT 4

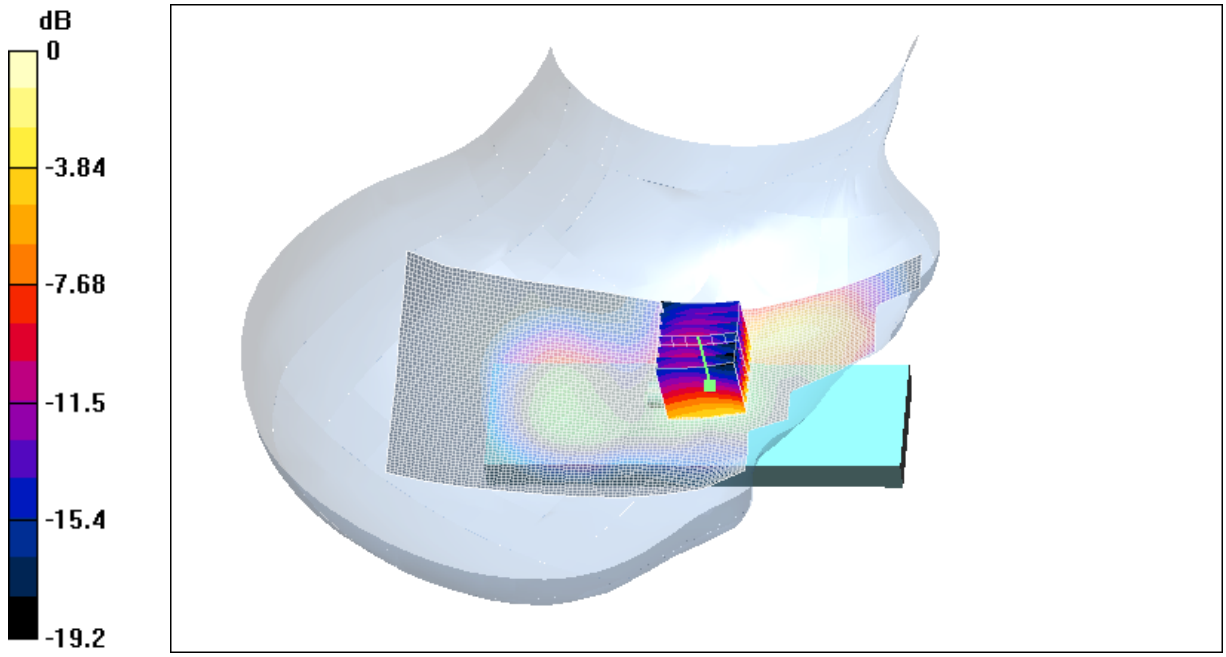
Ambient Temperature	**21.8 Degrees Celsius**
Liquid Temperature	**21.0 Degrees Celsius**
Humidity	**64.0 %**

Test Date: 07 December 2004
File Name: Touch Right 1900 MHz GSM (DAE900 Probe1377) 07-12-04.da4
DUT: Voxson GSM Phone; Antenna: Fixed Length (Non-Extendable); Type: VX750; Serial: 20041105

* Communication System: PCS; Frequency: 1880 MHz; Duty Cycle: 1:8.3
* Medium parameters used: σ = 1.43822; mho/m, ε_r = 38.8705; ρ = 1000 kg/m^3
- Electronics: DAE4 Sn900; Probe: ET3DV6 - SN1377; ConvF(5.12, 5.12, 5.12)
- Phantom: SAM 22; Serial: 1260; Phantom section: Right Section

Channel 661 Test/Area Scan (141x61x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.504 mW/g

Channel 661 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 7.79 V/m; Power Drift = -0.1 dB
Peak SAR (extrapolated) = 0.960 W/kg
SAR(1 g) = 0.447 mW/g; SAR(10 g) = 0.246 mW/g
Maximum value of SAR (measured) = 0.482 mW/g



0 dB = 0.482mW/g

SAR MEASUREMENT PLOT 5

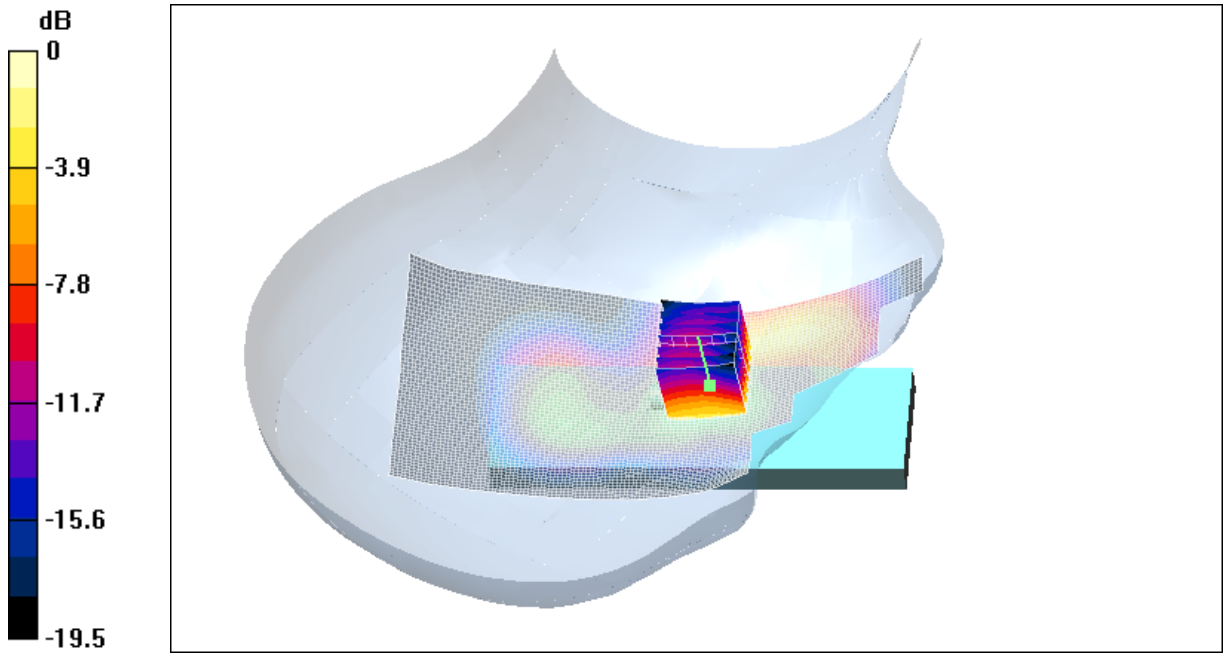
Ambient Temperature	**21.8 Degrees Celsius**
Liquid Temperature	**21.0 Degrees Celsius**
Humidity	**64.0 %**

Test Date: 07 December 2004
File Name: Touch Right 1900 MHz GSM (DAE900 Probe1377) 07-12-04.da4
DUT: Voxson GSM Phone; Antenna: Fixed Length (Non-Extendable); Type: VX750; Serial: 20041105

* Communication System: PCS; Frequency: 1909.8 MHz; Duty Cycle: 1:8.3
* Medium parameters used: σ = 1.45317; mho/m, ε_r = 38.755; ρ = 1000 kg/m^3
- Electronics: DAE4 Sn900; Probe: ET3DV6 - SN1377; ConvF(5.12, 5.12, 5.12)
- Phantom: SAM 22; Serial: 1260; Phantom section: Right Section

Channel 810 Test/Area Scan (141x61x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.801 mW/g

Channel 810 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 10 V/m; Power Drift = -0.1 dB
Peak SAR (extrapolated) = 1.45 W/kg
SAR(1 g) = 0.688 mW/g; SAR(10 g) = 0.375 mW/g
Maximum value of SAR (measured) = 0.737 mW/g

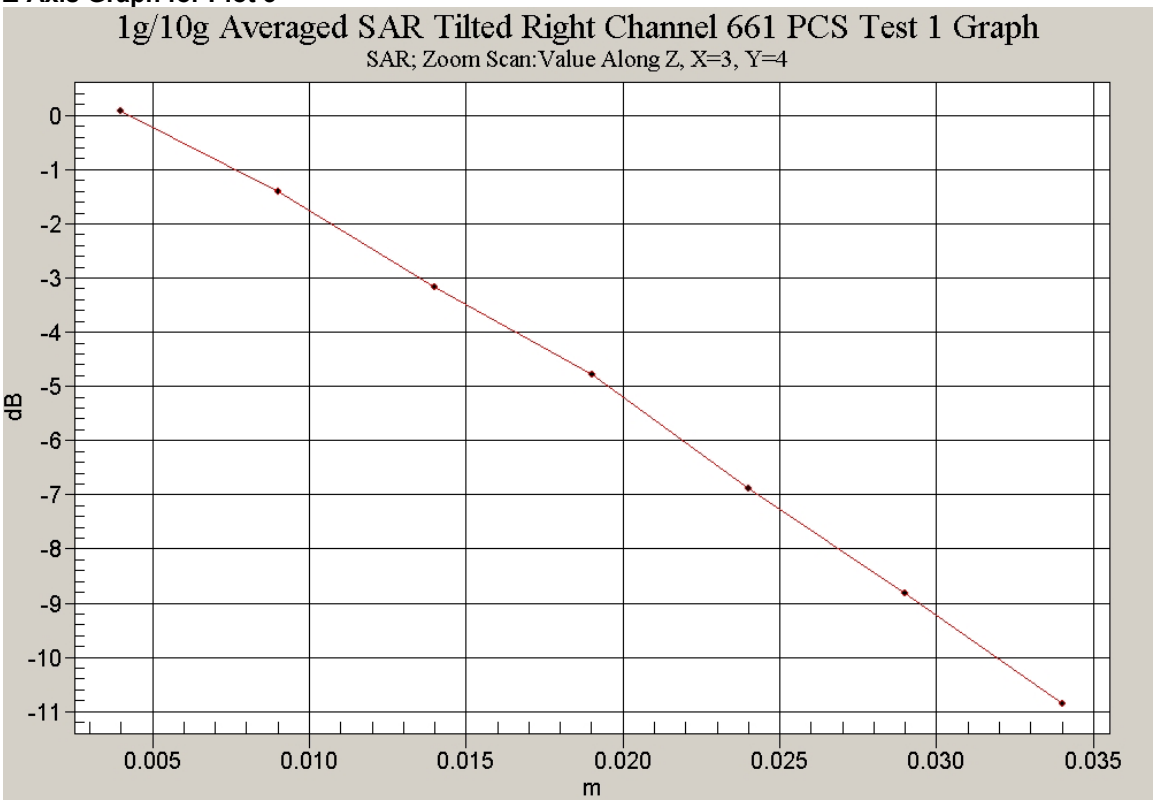


0 dB = 0.737mW/g

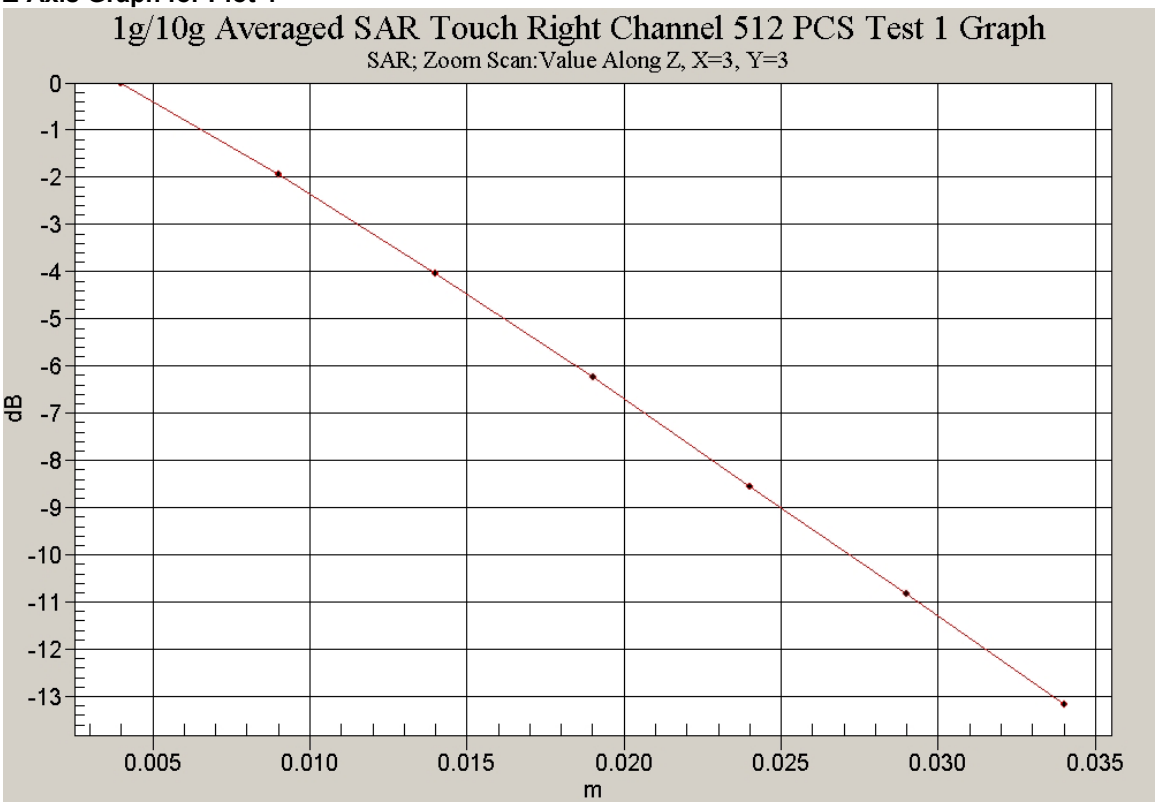
SAR MEASUREMENT PLOT 6

Ambient Temperature	**21.8 Degrees Celsius**
Liquid Temperature	**21.0 Degrees Celsius**
Humidity	**64.0 %**

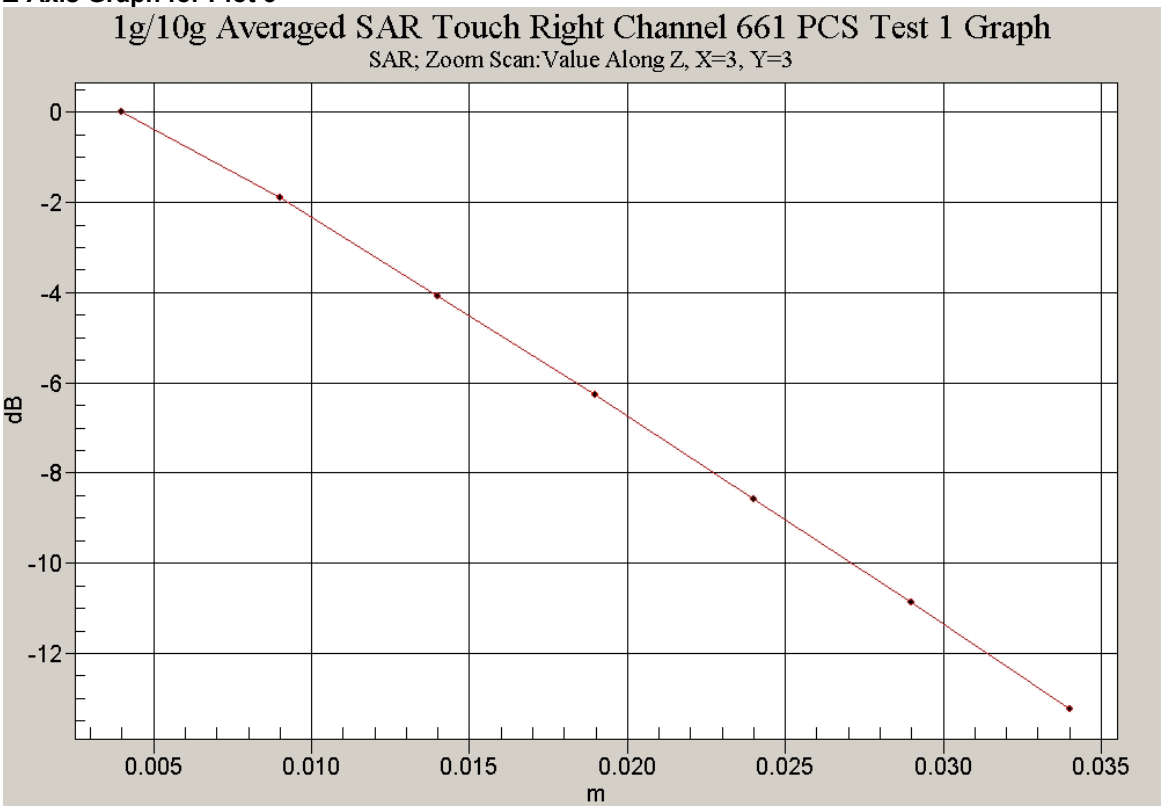
Z-Axis Graph for Plot 3



Z-Axis Graph for Plot 4



Z-Axis Graph for Plot 5



Z-Axis Graph for Plot 6