

Test Date: 11 December 2004

File Name: [Body Worn Front 1900 MHz GSM \(DAE900 Probe1377\) 11-12-04.da4](#)

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

\* Communication System: 1900 MHz GPRS; Frequency: 1850.2 MHz; Duty Cycle: 1:4

\* Medium parameters used:  $\sigma = 1.55876$ ; mho/m,  $\epsilon_r = 52.2734$ ;  $\rho = 1000$  kg/m<sup>3</sup>

- Electronics: DAE4 Sn900; Probe: ET3DV6 - SN1377; ConvF(4.7, 4.7, 4.7)

- Phantom: Flat Phantom 10.1; Serial: P 10.1; Phantom section: Flat 2.2 Section

**Channel 512 Test/Area Scan (111x71x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.942 mW/g

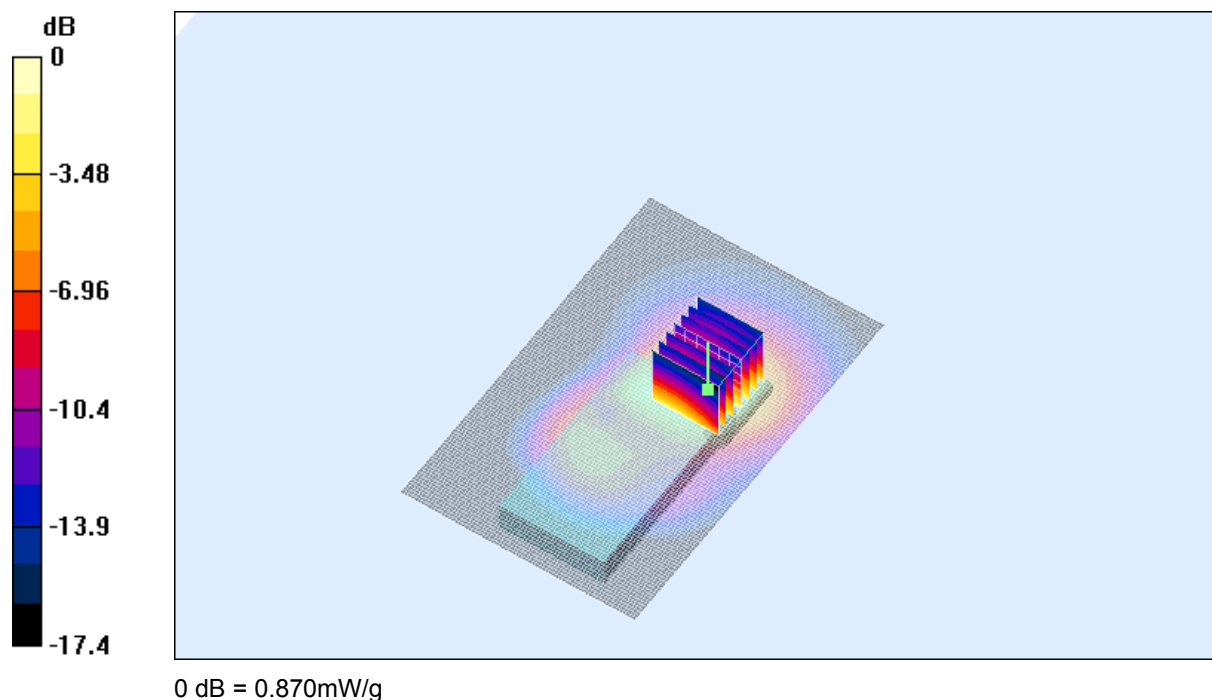
**Channel 512 Test/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 20 V/m; Power Drift = -0.0 dB

Peak SAR (extrapolated) = 1.73 W/kg

**SAR(1 g) = 0.827 mW/g; SAR(10 g) = 0.465 mW/g**

Maximum value of SAR (measured) = 0.870 mW/g



**SAR MEASUREMENT PLOT 17**

Ambient Temperature  
Liquid Temperature  
Humidity

21.8 Degrees Celsius  
21.1 Degrees Celsius  
62.0 %



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File Name: [Body Worn Front 1900 MHz GSM \(DAE900 Probe1377\) 11-12-04.da4](#)

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

\* Communication System: 1900 MHz GPRS; Frequency: 1880 MHz; Duty Cycle: 1:4

\* Medium parameters used:  $\sigma = 1.57924$ ; mho/m,  $\epsilon_r = 52.1053$ ;  $\rho = 1000$  kg/m<sup>3</sup>

- Electronics: DAE4 Sn900; Probe: ET3DV6 - SN1377; ConvF(4.7, 4.7, 4.7)

- Phantom: Flat Phantom 10.1; Serial: P 10.1; Phantom section: Flat 2.2 Section

**Channel 661 Test/Area Scan (111x71x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.33 mW/g

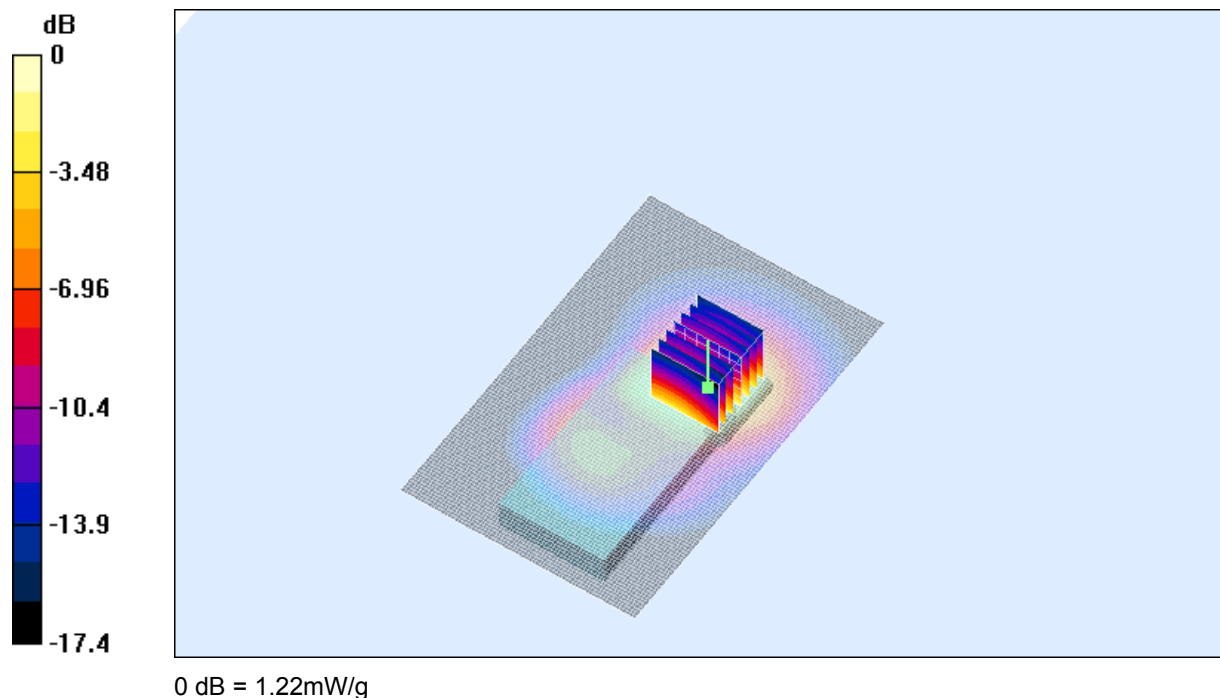
**Channel 661 Test/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 22.4 V/m; Power Drift = -0.3 dB

Peak SAR (extrapolated) = 2.48 W/kg

**SAR(1 g) = 1.16 mW/g; SAR(10 g) = 0.647 mW/g**

Maximum value of SAR (measured) = 1.22 mW/g



**SAR MEASUREMENT PLOT 18**

Ambient Temperature  
Liquid Temperature  
Humidity

21.8 Degrees Celsius  
21.1 Degrees Celsius  
62.0 %



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Test Date: 11 December 2004

File Name: [Body Worn Front 1900 MHz GSM \(DAE900 Probe1377\) 11-12-04.da4](#)

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

\* Communication System: 1900 MHz GPRS; Frequency: 1909.8 MHz; Duty Cycle: 1:4

\* Medium parameters used:  $\sigma = 1.59194$ ; mho/m,  $\epsilon_r = 52.0477$ ;  $\rho = 1000$  kg/m<sup>3</sup>

- Electronics: DAE4 Sn900; Probe: ET3DV6 - SN1377; ConvF(4.7, 4.7, 4.7)

- Phantom: Flat Phantom 10.1; Serial: P 10.1; Phantom section: Flat 2.2 Section

**Channel 810 Test/Area Scan (111x71x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.78 mW/g

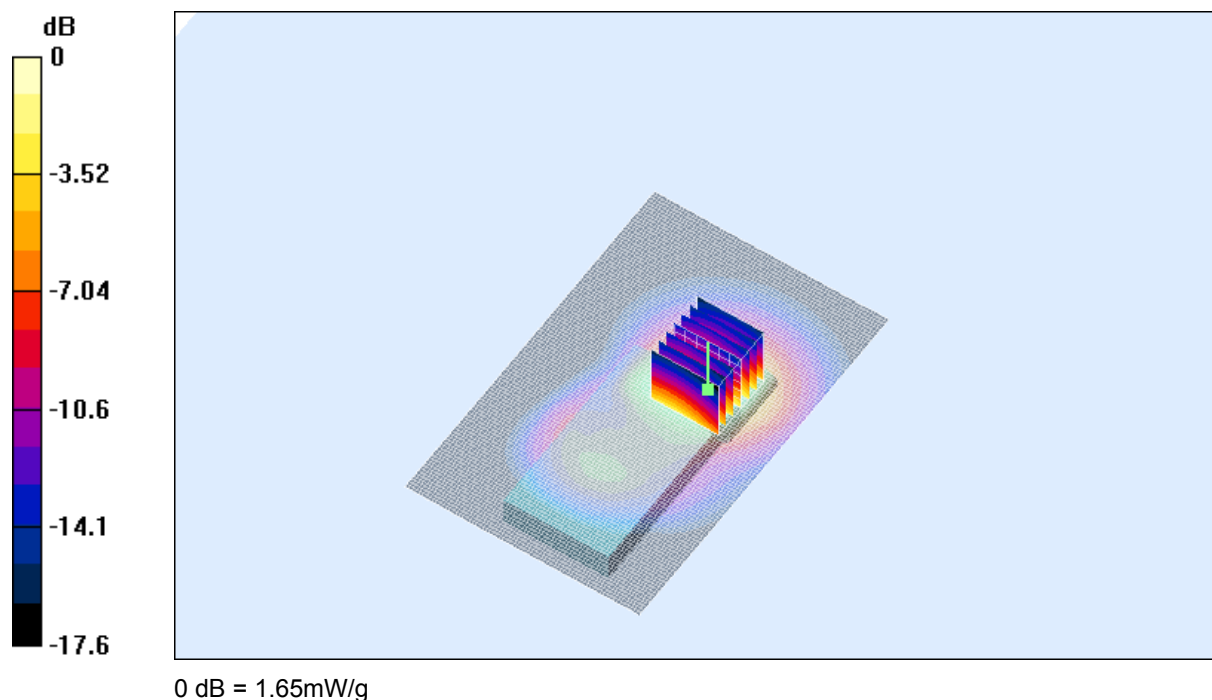
**Channel 810 Test/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 26.4 V/m; Power Drift = -0.2 dB

Peak SAR (extrapolated) = 3.38 W/kg

**SAR(1 g) = 1.56 mW/g; SAR(10 g) = 0.860 mW/g**

Maximum value of SAR (measured) = 1.65 mW/g



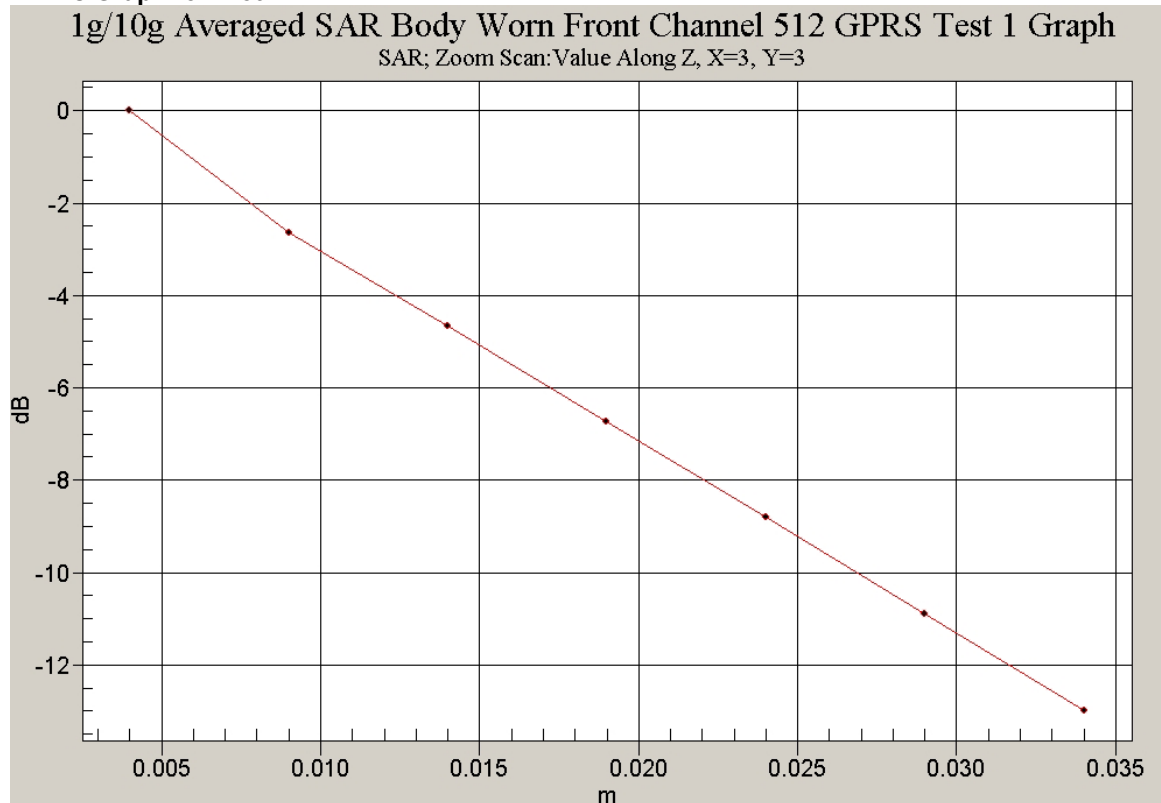
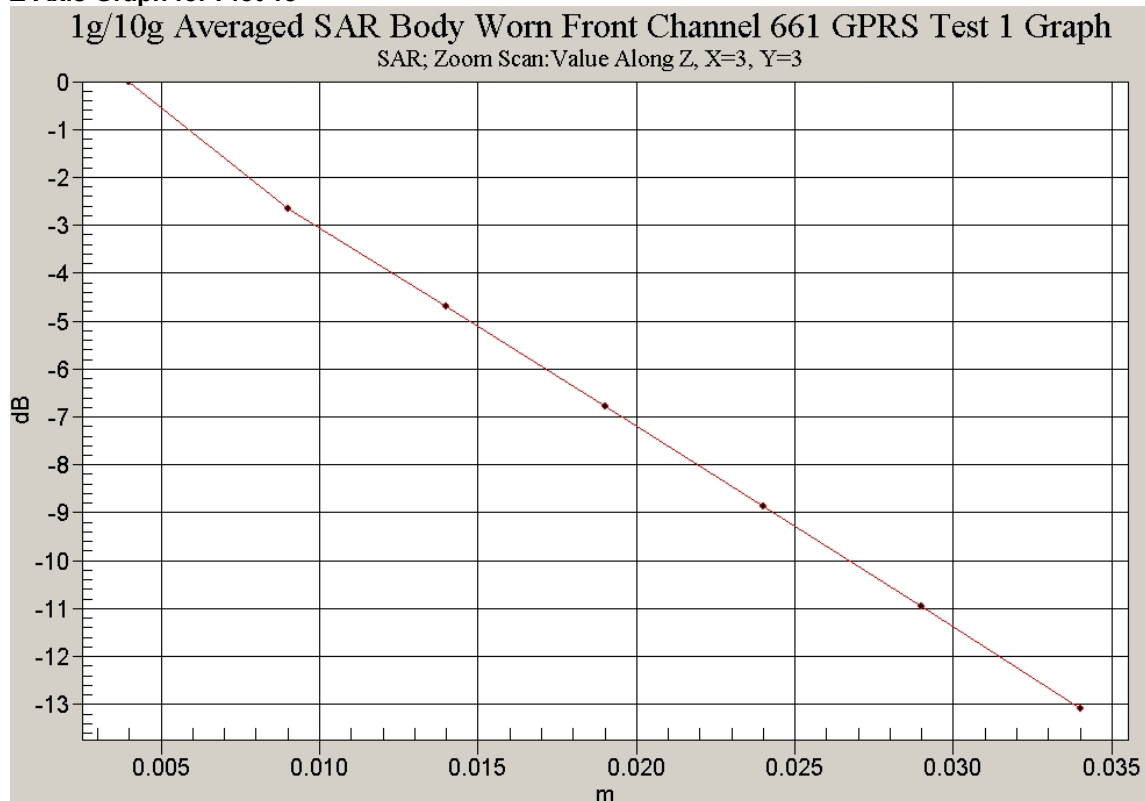
**SAR MEASUREMENT PLOT 19**

Ambient Temperature  
Liquid Temperature  
Humidity

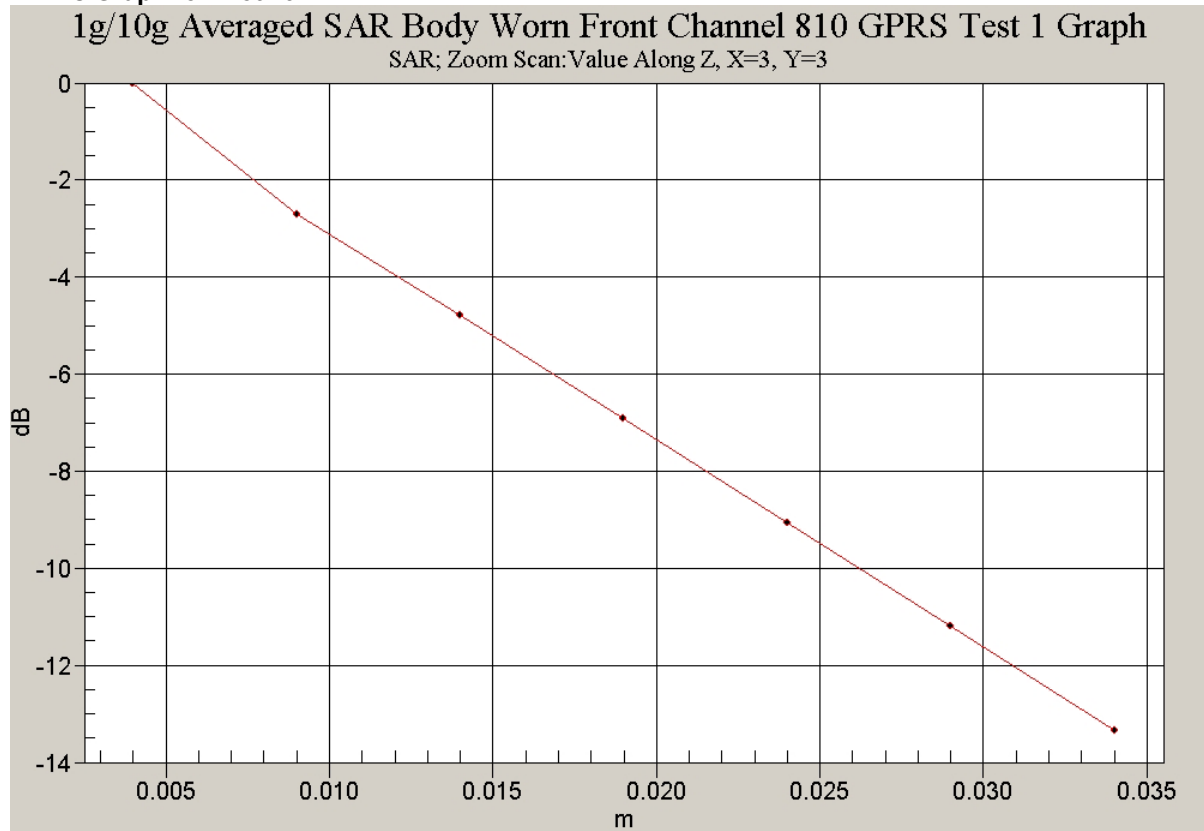
21.8 Degrees Celsius  
21.1 Degrees Celsius  
62.0 %



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**Z-Axis Graph for Plot 17****Z-Axis Graph for Plot 18**

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**Z-Axis Graph for Plot 19**

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Test Date: 11 December 2004

File Name: [Body Worn Back 15mm Spacing 1900 MHz GSM \(DAE900 Probe1377\) 11-12-04.da4](#)

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

\* Communication System: 1900 MHz GPRS; Frequency: 1850.2 MHz; Duty Cycle: 1:4

\* Medium parameters used:  $\sigma = 1.55876$ ; mho/m,  $\epsilon_r = 52.2734$ ;  $\rho = 1000$  kg/m<sup>3</sup>

- Electronics: DAE4 Sn900; Probe: ET3DV6 - SN1377; ConvF(4.7, 4.7, 4.7)

- Phantom: Flat Phantom 10.1; Serial: P 10.1; Phantom section: Flat 2.2 Section

**Channel 512 Test/Area Scan (111x71x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.373 mW/g

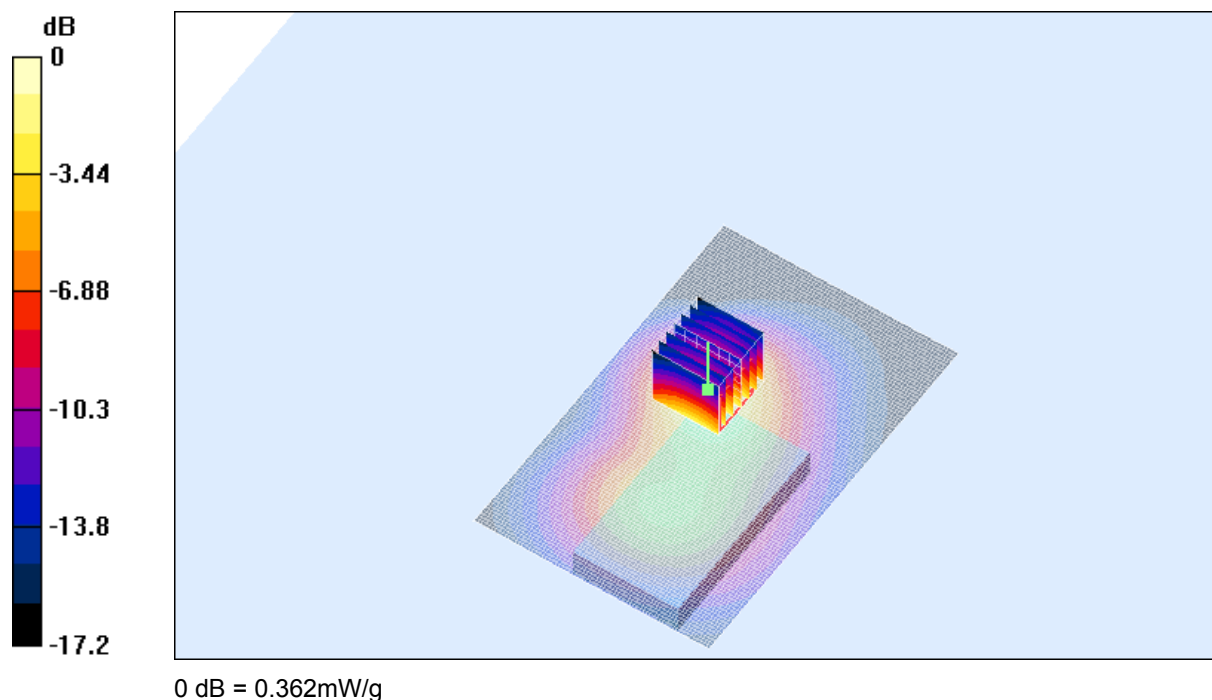
**Channel 512 Test/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 21 V/m; Power Drift = -0.1 dB

Peak SAR (extrapolated) = 0.706 W/kg

**SAR(1 g) = 0.336 mW/g; SAR(10 g) = 0.184 mW/g**

Maximum value of SAR (measured) = 0.362 mW/g



**SAR MEASUREMENT PLOT 20**

Ambient Temperature  
Liquid Temperature  
Humidity

21.8 Degrees Celsius  
21.1 Degrees Celsius  
62.0 %



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Test Date: 11 December 2004

File Name: [Body Worn Back 15mm Spacing 1900 MHz GSM \(DAE900 Probe1377\) 11-12-04.da4](#)

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

\* Communication System: 1900 MHz GPRS; Frequency: 1880 MHz; Duty Cycle: 1:4

\* Medium parameters used:  $\sigma = 1.57924$ ; mho/m,  $\epsilon_r = 52.1053$ ;  $\rho = 1000$  kg/m<sup>3</sup>

- Electronics: DAE4 Sn900; Probe: ET3DV6 - SN1377; ConvF(4.7, 4.7, 4.7)

- Phantom: Flat Phantom 10.1; Serial: P 10.1; Phantom section: Flat 2.2 Section

**Channel 661 Test/Area Scan (111x71x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.586 mW/g

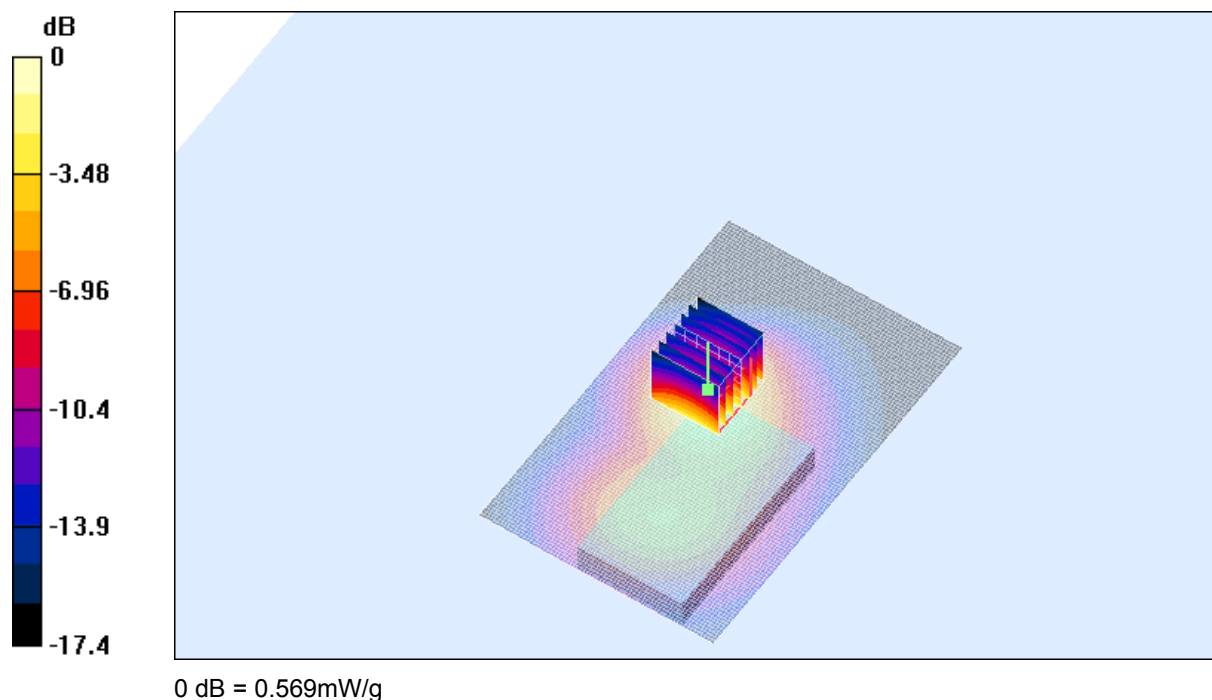
**Channel 661 Test/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 26 V/m; Power Drift = -0.009 dB

Peak SAR (extrapolated) = 1.13 W/kg

**SAR(1 g) = 0.532 mW/g; SAR(10 g) = 0.288 mW/g**

Maximum value of SAR (measured) = 0.569 mW/g



**SAR MEASUREMENT PLOT 21**

Ambient Temperature  
Liquid Temperature  
Humidity

21.8 Degrees Celsius  
21.1 Degrees Celsius  
62.0 %



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Test Date: 11 December 2004

File Name: [Body Worn Back 15mm Spacing 1900 MHz GSM \(DAE900 Probe1377\) 11-12-04.da4](#)

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

\* Communication System: 1900 MHz GPRS; Frequency: 1909.8 MHz; Duty Cycle: 1:4

\* Medium parameters used:  $\sigma = 1.59194$ ; mho/m,  $\epsilon_r = 52.0477$ ;  $\rho = 1000$  kg/m<sup>3</sup>

- Electronics: DAE4 Sn900; Probe: ET3DV6 - SN1377; ConvF(4.7, 4.7, 4.7)

- Phantom: Flat Phantom 10.1; Serial: P 10.1; Phantom section: Flat 2.2 Section

**Channel 810 Test/Area Scan (111x71x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.773 mW/g

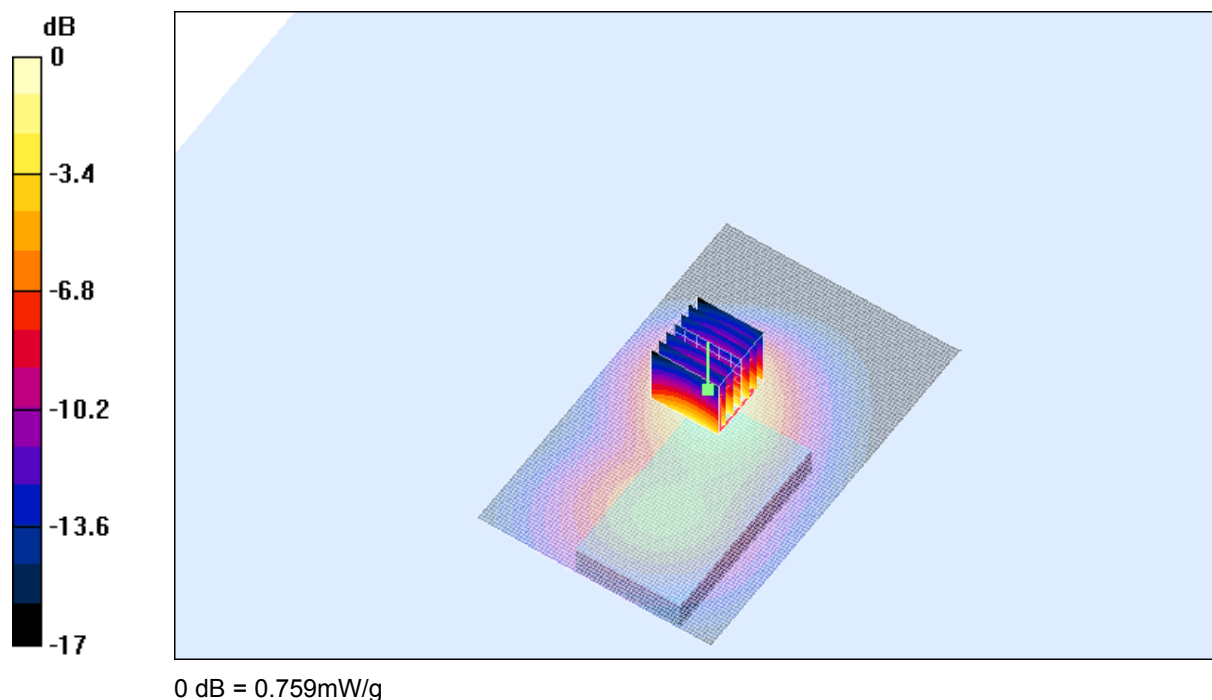
**Channel 810 Test/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 31.1 V/m; Power Drift = -0.0 dB

Peak SAR (extrapolated) = 1.55 W/kg

**SAR(1 g) = 0.712 mW/g; SAR(10 g) = 0.386 mW/g**

Maximum value of SAR (measured) = 0.759 mW/g



**SAR MEASUREMENT PLOT 22**

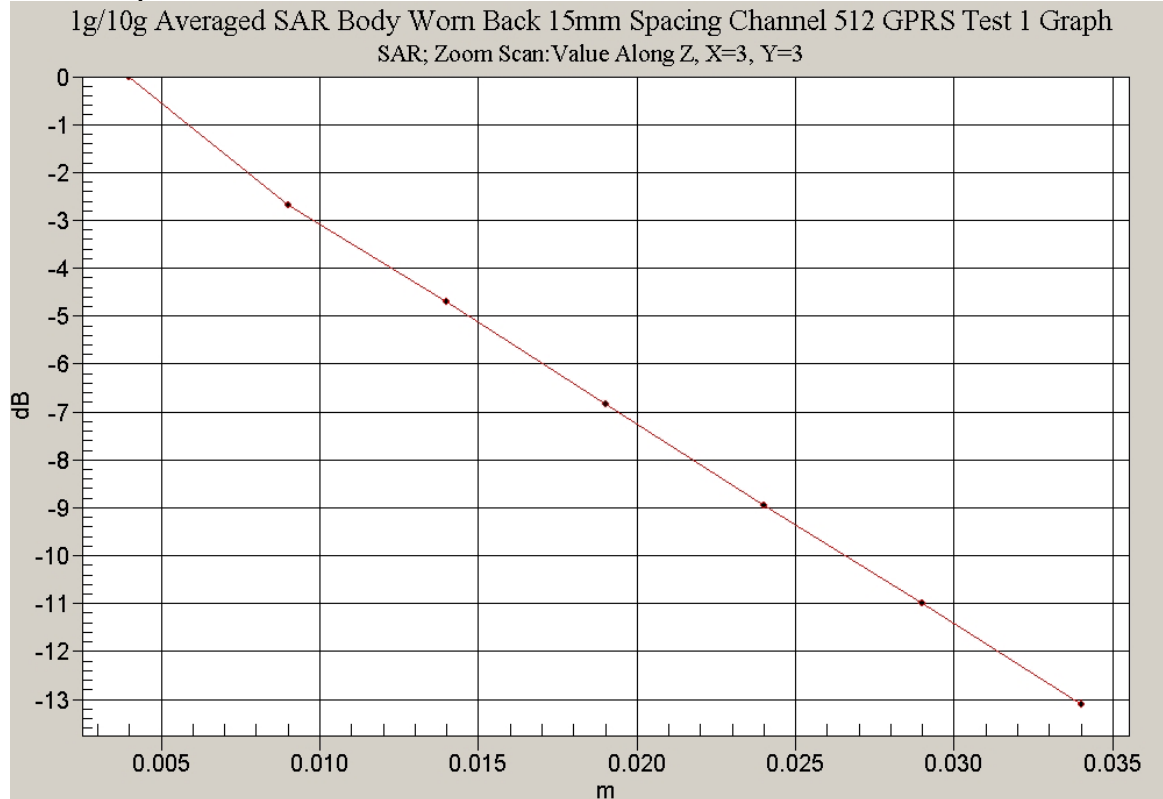
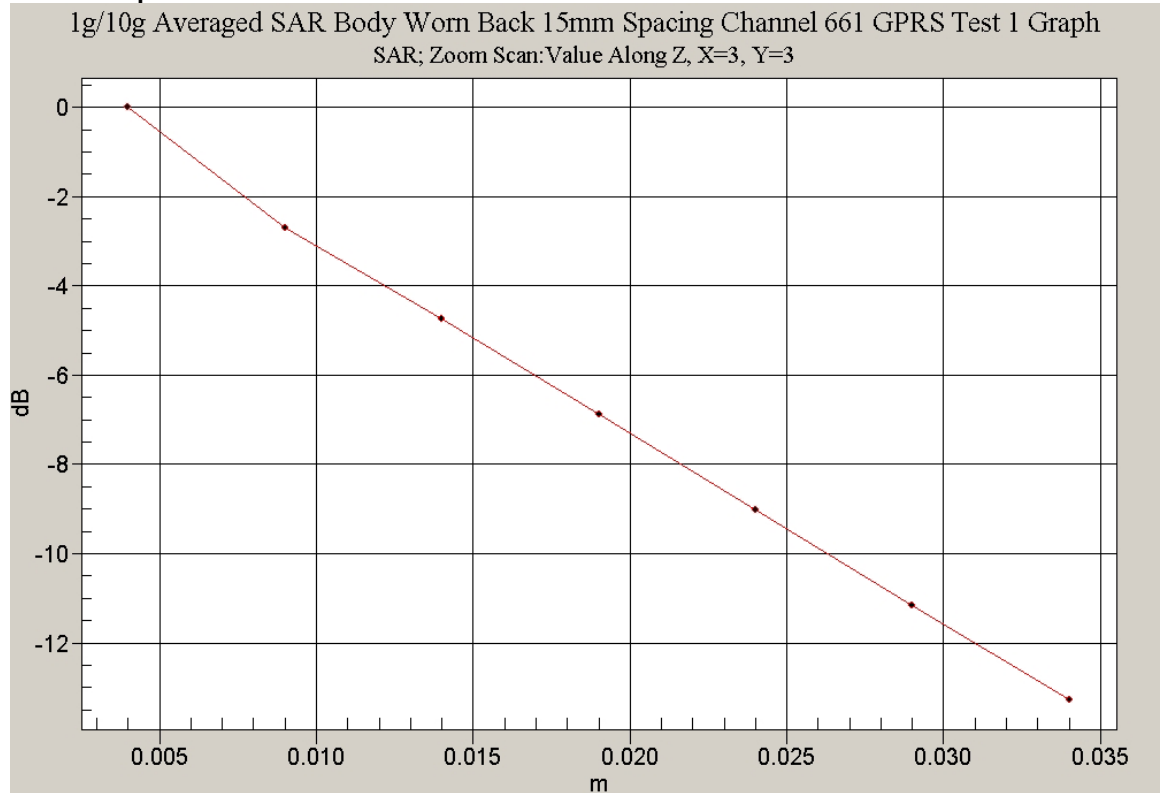
Ambient Temperature  
Liquid Temperature  
Humidity

21.8 Degrees Celsius  
21.1 Degrees Celsius  
62.0 %

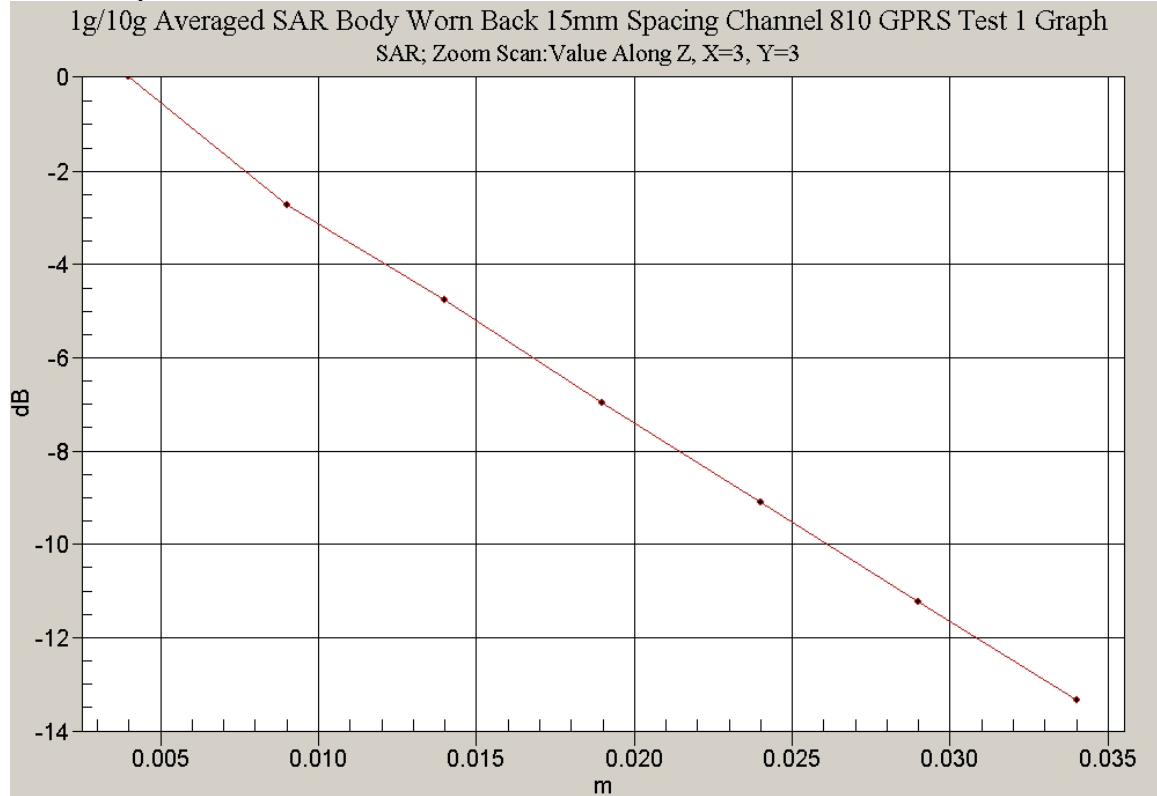


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**Z-Axis Graph for Plot 20****Z-Axis Graph for Plot 21**

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**Z-Axis Graph for Plot 22**

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Test Date: 07 December 2004

File Name: [Validation 1800 MHz \(DAE900 Probe1377\) 07-12-04.da4](#)

**DUT: Dipole 1800 MHz; Type: DV1800V2; Serial: 242**

\* Communication System: CW 1800 MHz; Frequency: 1800 MHz; Duty Cycle: 1:1

\* Medium parameters used:  $\sigma = 1.39273$ ; mho/m,  $\epsilon_r = 39.1125$ ;  $\rho = 1000 \text{ kg/m}^3$

- Electronics: DAE4 Sn900; Probe: ET3DV6 - SN1377; ConvF(5.12, 5.12, 5.12)

- Phantom: SAM 22; Serial: 1260; Phantom section: Flat Section

**Channel 1 Test/Area Scan (61x61x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 11.9 mW/g

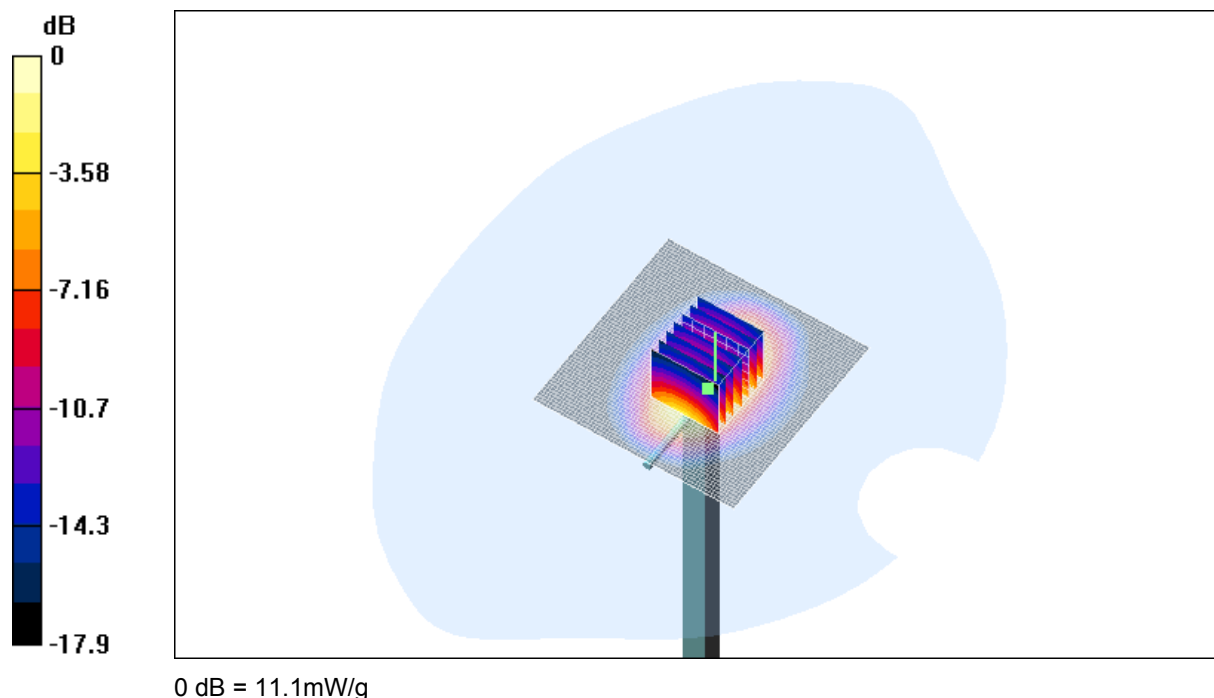
**Channel 1 Test/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 87.7 V/m; Power Drift = 0.1 dB

Peak SAR (extrapolated) = 17.5 W/kg

**SAR(1 g) = 9.93 mW/g; SAR(10 g) = 5.24 mW/g**

Maximum value of SAR (measured) = 11.1 mW/g



**SAR MEASUREMENT PLOT 23**

Ambient Temperature  
Liquid Temperature  
Humidity

21.8 Degrees Celsius  
21.0 Degrees Celsius  
64.0 %



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Test Date: 08 December 2004

File Name: [Validation 1800 MHz \(DAE900 Probe1377\) 08-12-04.da4](#)

**DUT: Dipole 1800 MHz; Type: DV1800V2; Serial: 242**

\* Communication System: CW 1800 MHz; Frequency: 1800 MHz; Duty Cycle: 1:1

\* Medium parameters used:  $\sigma = 1.40953$ ; mho/m,  $\epsilon_r = 39.2302$ ;  $\rho = 1000 \text{ kg/m}^3$

- Electronics: DAE4 Sn900; Probe: ET3DV6 - SN1377; ConvF(5.12, 5.12, 5.12)

- Phantom: SAM 22; Serial: 1260; Phantom section: Flat Section

**Channel 1 Test/Area Scan (61x61x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 11.6 mW/g

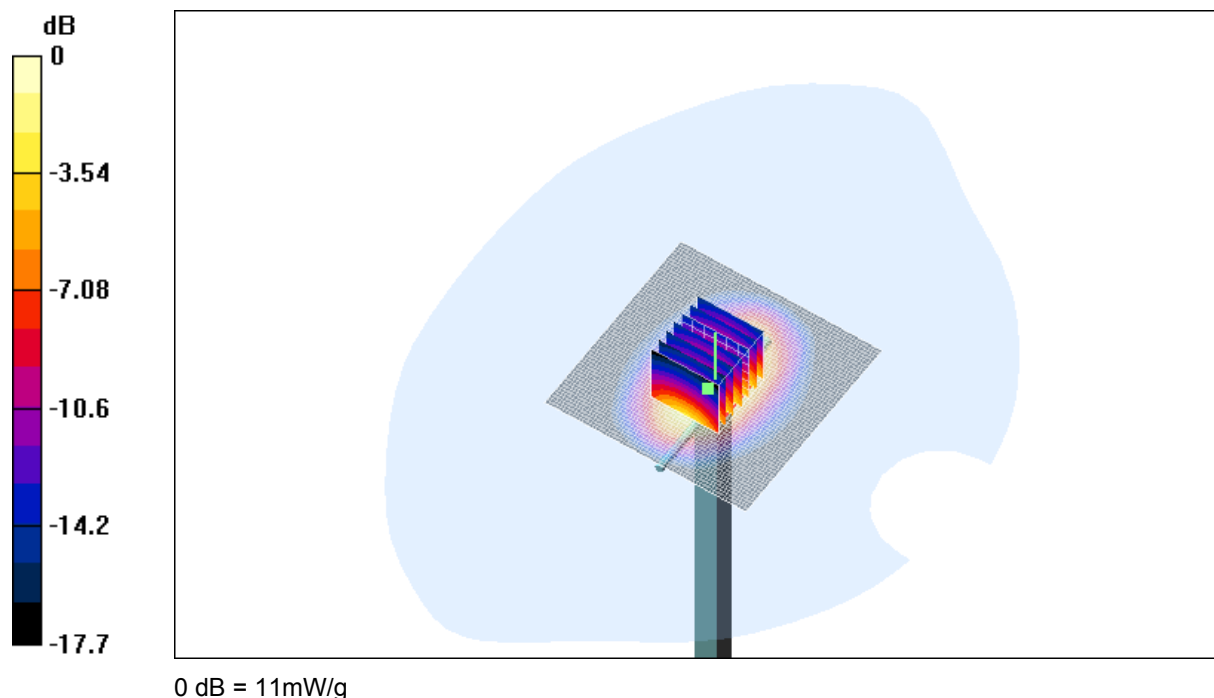
**Channel 1 Test/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 93.4 V/m; Power Drift = 0.0 dB

Peak SAR (extrapolated) = 16.8 W/kg

**SAR(1 g) = 9.69 mW/g; SAR(10 g) = 5.15 mW/g**

Maximum value of SAR (measured) = 11 mW/g



**SAR MEASUREMENT PLOT 24**

Ambient Temperature  
Liquid Temperature  
Humidity

21.8 Degrees Celsius  
21.1 Degrees Celsius  
63.0 %



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Test Date: 11 December 2004

File Name: [Validation 1800 MHz \(DAE900 Probe1377\) 11-12-04.da4](#)

**DUT: Dipole 1800 MHz; Type: DV1800V2; Serial: 242**

\* Communication System: CW 1800 MHz; Frequency: 1800 MHz; Duty Cycle: 1:1

\* Medium parameters used:  $\sigma = 1.40423$ ; mho/m,  $\epsilon_r = 39.0466$ ;  $\rho = 1000$  kg/m<sup>3</sup>

- Electronics: DAE4 Sn900; Probe: ET3DV6 - SN1377; ConvF(5.12, 5.12, 5.12)

- Phantom: SAM 22; Serial: 1260; Phantom section: Flat Section

**Channel 1 Test/Area Scan (61x61x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 11.9 mW/g

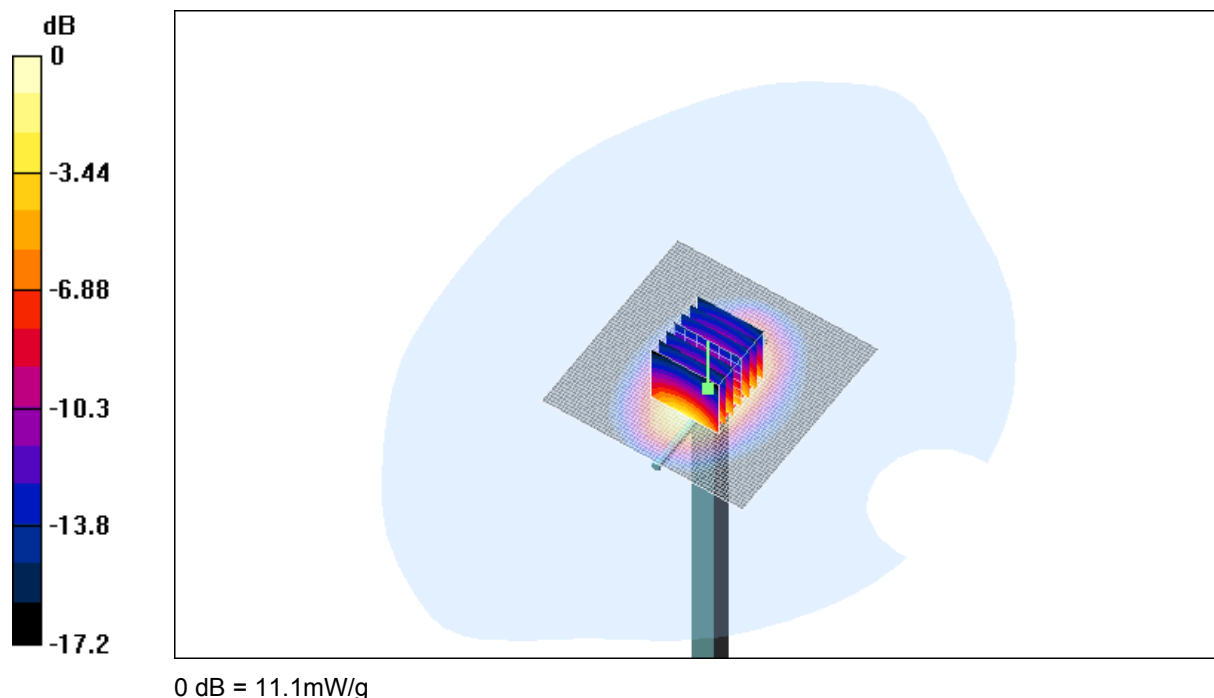
**Channel 1 Test/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 89.7 V/m; Power Drift = 0.1 dB

Peak SAR (extrapolated) = 17.3 W/kg

**SAR(1 g) = 9.83 mW/g; SAR(10 g) = 5.2 mW/g**

Maximum value of SAR (measured) = 11.1 mW/g



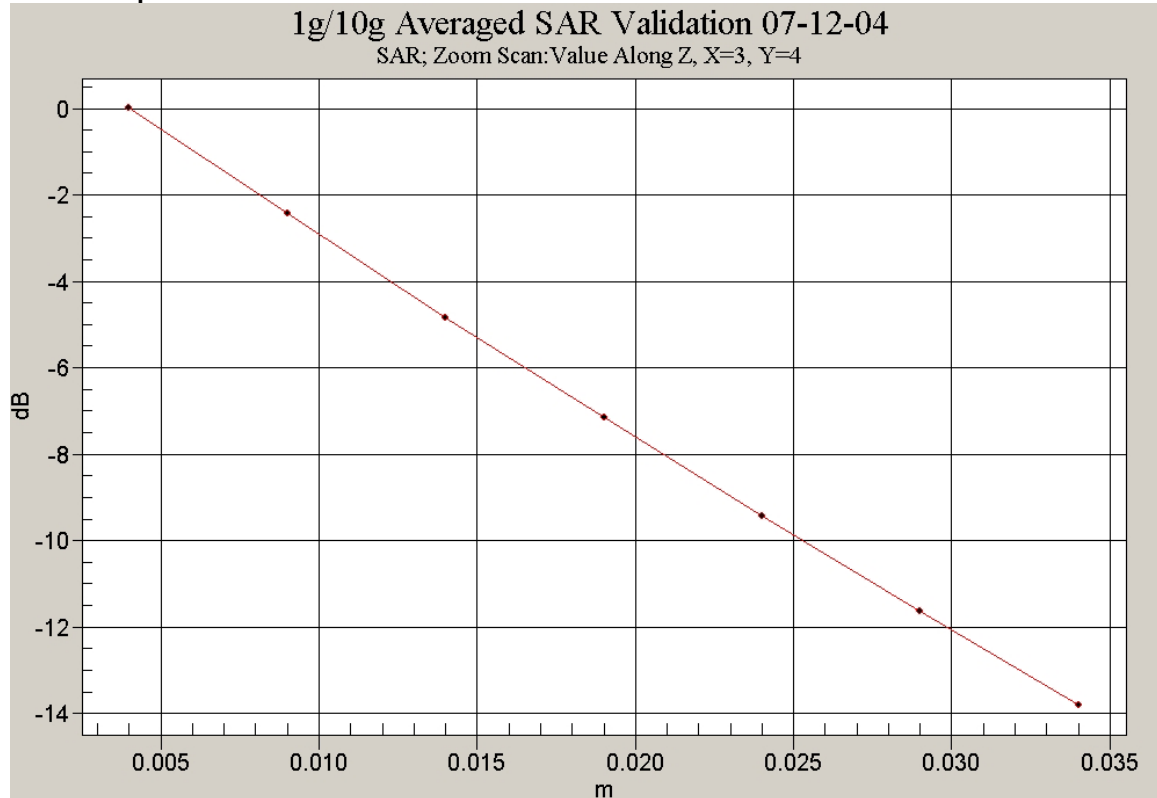
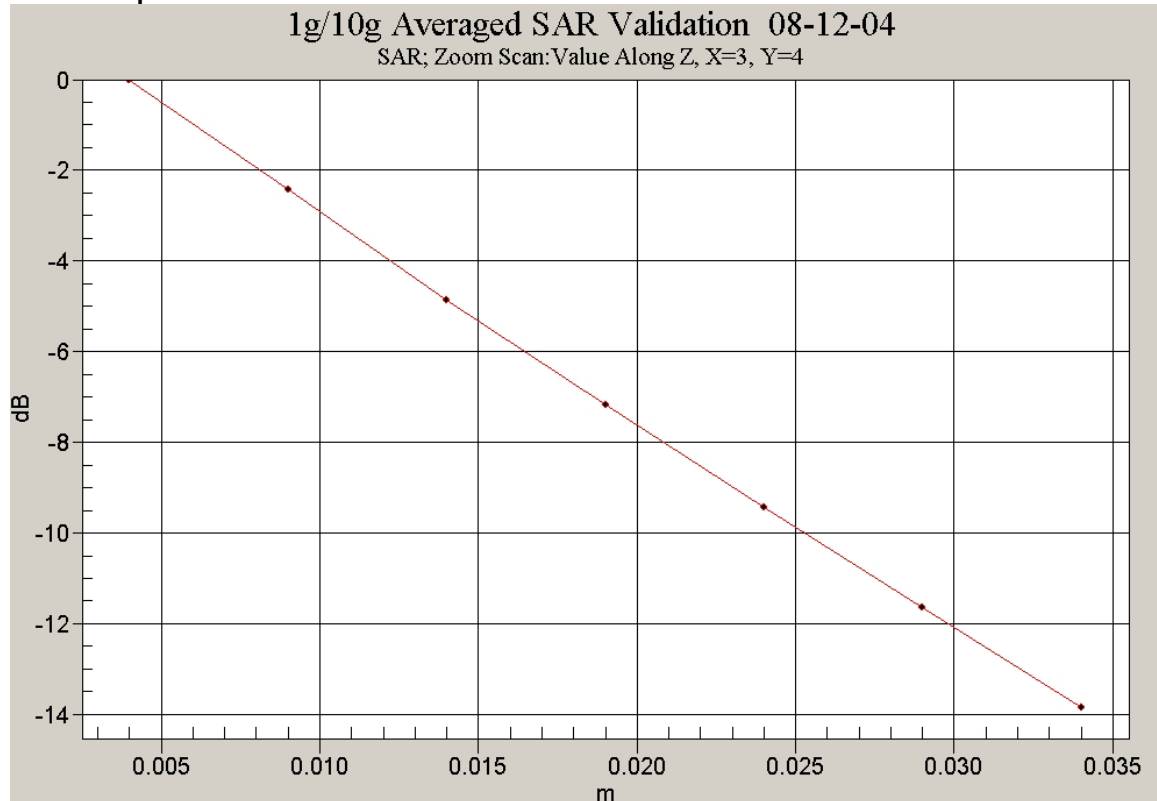
**SAR MEASUREMENT PLOT 25**

Ambient Temperature  
Liquid Temperature  
Humidity

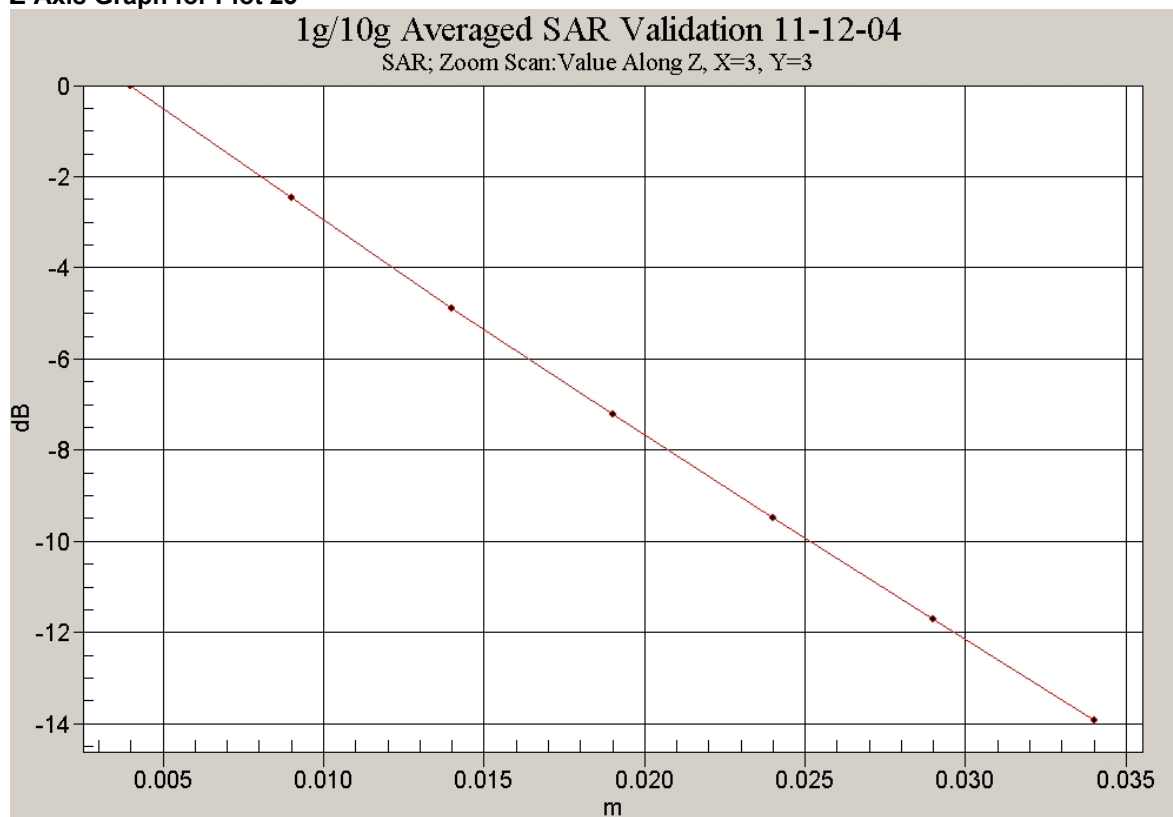
21.8 Degrees Celsius  
21.1 Degrees Celsius  
62.0 %



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**Z-Axis Graph for Plot 23****Z-Axis Graph for Plot 24**

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**Z-Axis Graph for Plot 25**

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## **APPENDIX C**

### **SAR TESTING EQUIPMENT CALIBRATION CERTIFICATE ATTACHMENTS**

#### **Calibration Certificate Attachments**

- |  |          |
|--|----------|
| 1. 1800 MHz Dipole Calibration Sheet               | 5 Pages  |
| 2. E-Field Probe Calibration Sheet                 | 10 Pages |
| 3. Additional Conversion Factors for E-Field Probe | 2 Pages  |



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