

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 13: 1900 MHz SAR Plots

Page	Plot Number	Position	Channel Number
20	Plot 1	Touch – Right	512
21	Plot 2	Touch – Right	661
22	Plot 3	Touch – Right	810
23	Plot 4	Touch – Left	661
24	Plot 5	Tilted - Right	661
25	Plot 6	Tilted - Left	661
26 - 28	Z-Axis Scans for Plots 1 to 6		

Table 14: SAR Validation Plots

Page	Plot Number	Date	Frequency
29	Plot 7	Validation 17- March - 2004	1800MHz
30	Z-Axis Scans for Plot 7		

Test Date: 17 March 2004

File Name: [Touch Right 1900 MHz GSM \(DAE442 Probe1377\) 17-03-04.da4](#)

DUT: Tiller Tracker Can Phone; Type: TGP79AB; Serial: 001033000030552

* Communication System: PCS; Frequency: 1850.2 MHz; Duty Cycle: 1:8.3

* Medium parameters used: $\sigma = 1.42464$; mho/m, $\epsilon_r = 38.9076$; $\rho = 1000$ kg/m³

- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1377; ConvF(5.1, 5.1, 5.1)

- Phantom: SAM 12; Serial: 1060; Phantom section: Right Section

Channel 512 Test 2/Area Scan (131x81x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 11.3 V/m; Power Drift = -0.0 dB

Maximum value of SAR (interpolated) = 0.403 mW/g

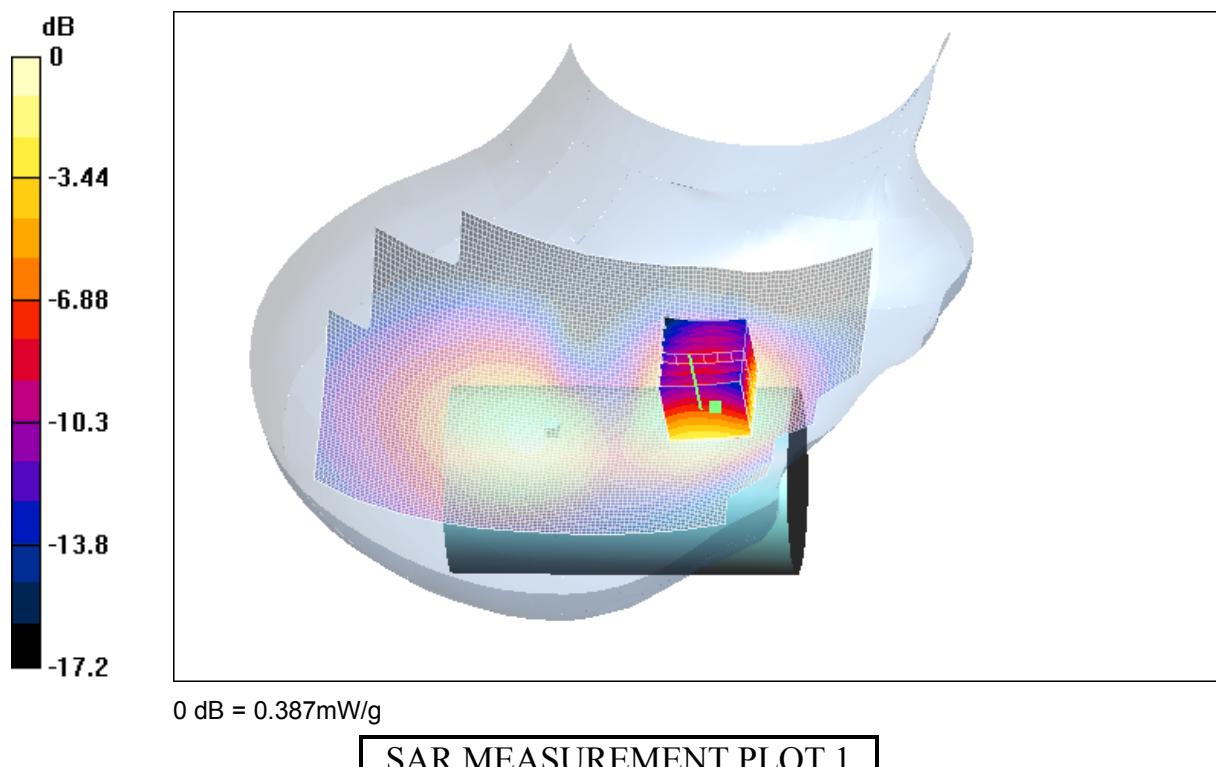
Channel 512 Test 2/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 11.3 V/m; Power Drift = -0.0 dB

Maximum value of SAR (measured) = 0.387 mW/g

Peak SAR (extrapolated) = 0.518 W/kg

SAR(1 g) = 0.362 mW/g; SAR(10 g) = 0.228 mW/g



Ambient Temperature
Liquid Temperature
Humidity

21.9 Degrees Celsius
21.1 Degrees Celsius
52 %

Test Date: 17 March 2004

File Name: [Touch Right 1900 MHz GSM \(DAE442 Probe1377\) 17-03-04.da4](#)

DUT: Tiller Tracker Can Phone; Type: TGP79AB; Serial: 001033000030552

* Communication System: PCS; Frequency: 1880 MHz; Duty Cycle: 1:8.3

* Medium parameters used: $\sigma = 1.43935$; mho/m, $\epsilon_r = 38.776$; $\rho = 1000$ kg/m³

- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1377; ConvF(5.1, 5.1, 5.1)

- Phantom: SAM 12; Serial: 1060; Phantom section: Right Section

Channel 661 Test/Area Scan (131x81x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 12.2 V/m; Power Drift = 0.1 dB

Maximum value of SAR (interpolated) = 0.383 mW/g

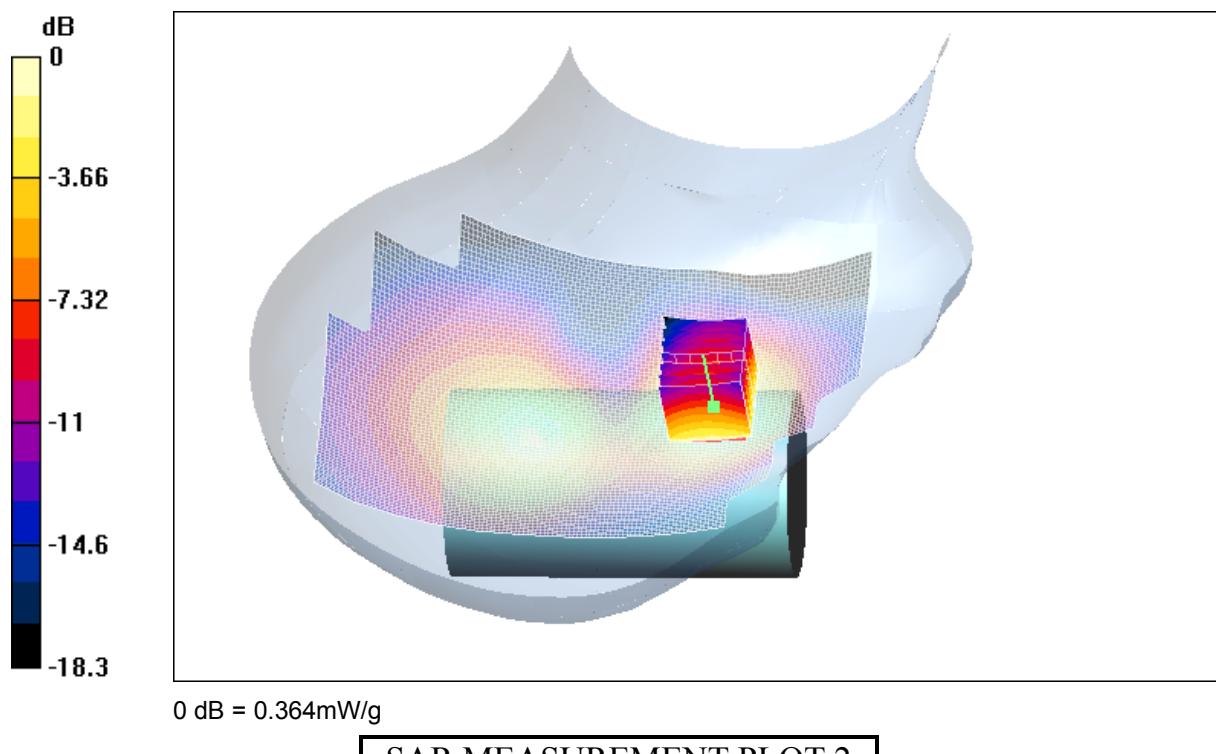
Channel 661 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 12.2 V/m; Power Drift = 0.1 dB

Maximum value of SAR (measured) = 0.364 mW/g

Peak SAR (extrapolated) = 0.480 W/kg

SAR(1 g) = 0.342 mW/g; SAR(10 g) = 0.217 mW/g



Ambient Temperature
Liquid Temperature
Humidity

21.9 Degrees Celsius
21.1 Degrees Celsius
52 %

Test Date: 17 March 2004

File Name: [Touch Right 1900 MHz GSM \(DAE442 Probe1377\) 17-03-04.da4](#)

DUT: Tiller Tracker Can Phone; Type: TGP79AB; Serial: 001033000030552

* Communication System: PCS; Frequency: 1909.8 MHz; Duty Cycle: 1:8.3

* Medium parameters used: $\sigma = 1.45209$; mho/m, $\epsilon_r = 38.6591$; $\rho = 1000$ kg/m³

- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1377; ConvF(5.1, 5.1, 5.1)

- Phantom: SAM 12; Serial: 1060; Phantom section: Right Section

Channel 810 Test/Area Scan (131x81x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 11.9 V/m; Power Drift = 0.0 dB

Maximum value of SAR (interpolated) = 0.349 mW/g

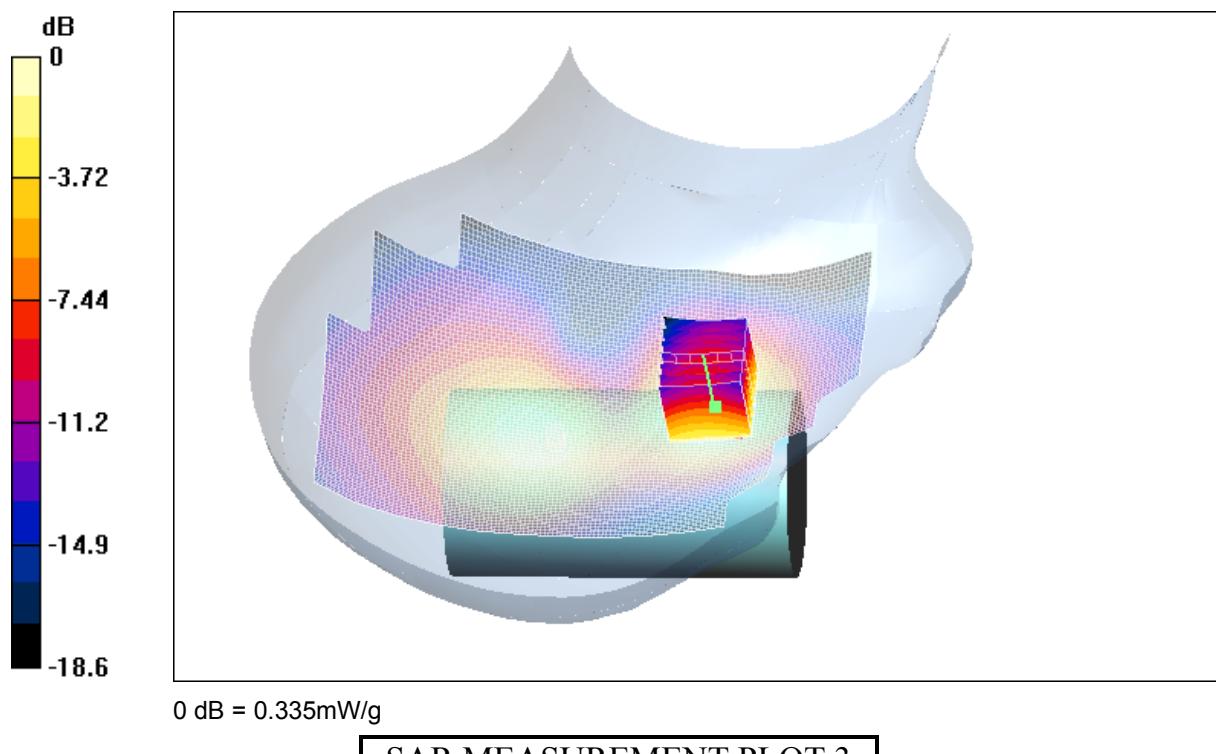
Channel 810 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 11.9 V/m; Power Drift = 0.0 dB

Maximum value of SAR (measured) = 0.335 mW/g

Peak SAR (extrapolated) = 0.450 W/kg

SAR(1 g) = 0.312 mW/g; SAR(10 g) = 0.194 mW/g



Ambient Temperature
Liquid Temperature
Humidity

21.9 Degrees Celsius
21.1 Degrees Celsius
52 %

Test Date: 17 March 2004

File Name: [Touch Left 1900 MHz GSM \(DAE442 Probe1377\) 17-03-04.da4](#)

DUT: Tiller Tracker Can Phone; Type: TGP79AB; Serial: 001033000030552

* Communication System: PCS; Frequency: 1880 MHz; Duty Cycle: 1:8.3

* Medium parameters used: $\sigma = 1.43935$; mho/m, $\epsilon_r = 38.776$; $\rho = 1000$ kg/m³

- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1377; ConvF(5.1, 5.1, 5.1)

- Phantom: SAM 12; Serial: 1060; Phantom section: Left Section

Channel 661 Test/Area Scan (131x81x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 10.7 V/m; Power Drift = -0.0 dB

Maximum value of SAR (interpolated) = 0.350 mW/g

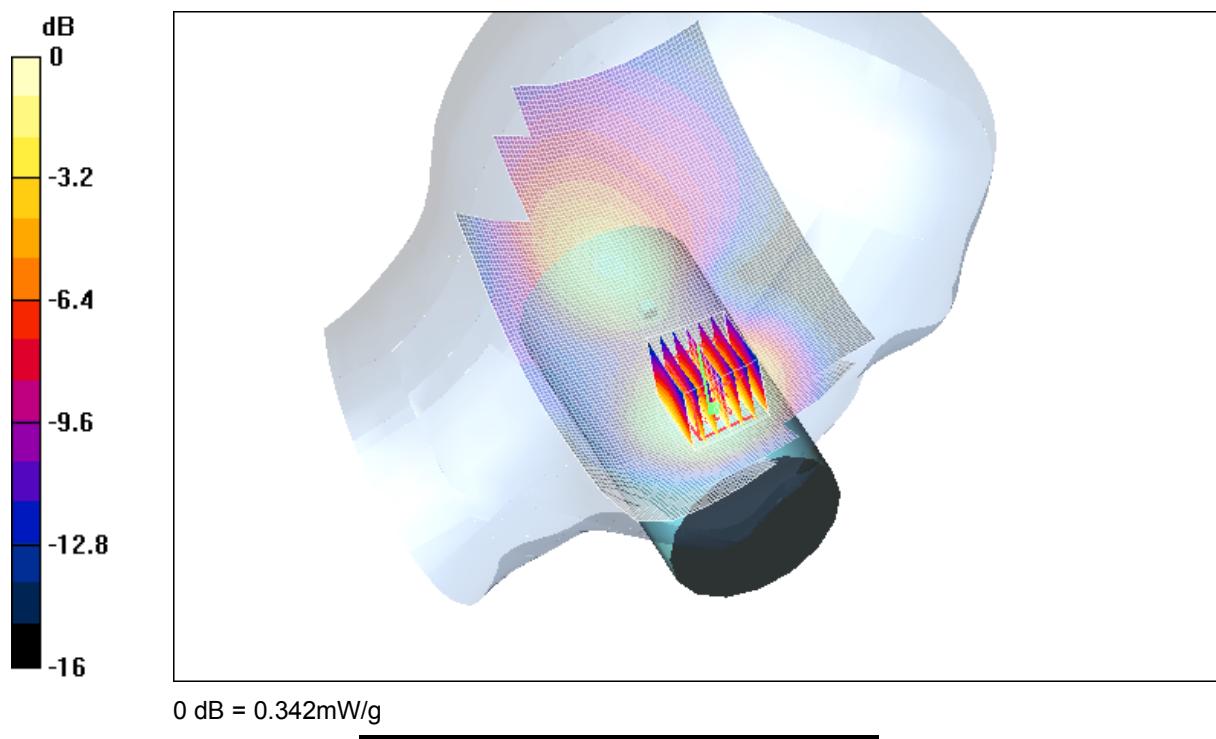
Channel 661 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 10.7 V/m; Power Drift = -0.0 dB

Maximum value of SAR (measured) = 0.342 mW/g

Peak SAR (extrapolated) = 0.464 W/kg

SAR(1 g) = 0.320 mW/g; SAR(10 g) = 0.205 mW/g



Ambient Temperature
Liquid Temperature
Humidity

21.9 Degrees Celsius
21.1 Degrees Celsius
52 %

Test Date: 17 March 2004

File Name: [Tilted Right 1900 MHz GSM \(DAE442 Probe1377\) 17-03-04.da4](#)

DUT: Tiller Tracker Can Phone; Type: TGP79AB; Serial: 001033000030552

* Communication System: PCS; Frequency: 1880 MHz; Duty Cycle: 1:8.3

* Medium parameters used: $\sigma = 1.43935$; mho/m, $\epsilon_r = 38.776$; $\rho = 1000$ kg/m³

- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1377; ConvF(5.1, 5.1, 5.1)

- Phantom: SAM 12; Serial: 1060; Phantom section: Right Section

Channel 661 Test/Area Scan (131x81x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 12.2 V/m; Power Drift = -0.0 dB

Maximum value of SAR (interpolated) = 0.269 mW/g

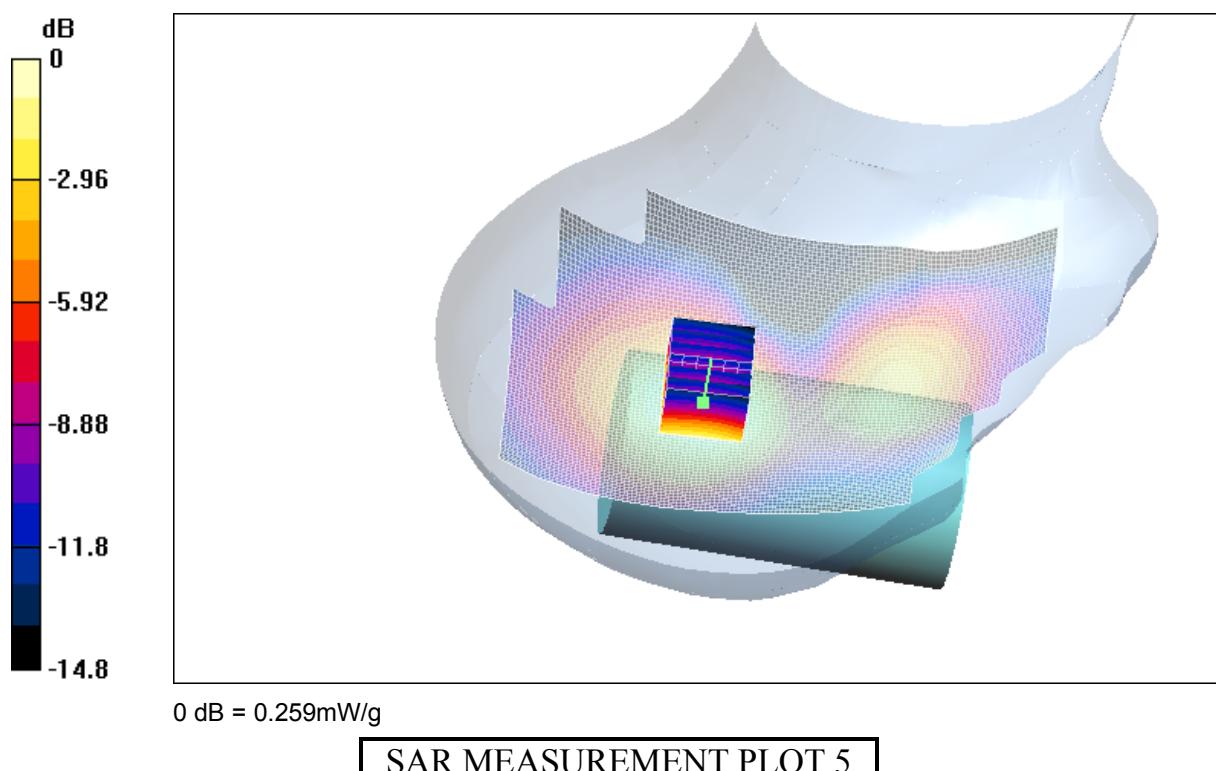
Channel 661 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 12.2 V/m; Power Drift = -0.0 dB

Maximum value of SAR (measured) = 0.259 mW/g

Peak SAR (extrapolated) = 0.370 W/kg

SAR(1 g) = 0.242 mW/g; SAR(10 g) = 0.150 mW/g



Ambient Temperature
Liquid Temperature
Humidity

21.9 Degrees Celsius
21.1 Degrees Celsius
52 %

Test Date: 17 March 2004

File Name: [Tilted Left 1900 MHz GSM \(DAE442 Probe1377\) 17-03-04.da4](#)

DUT: Tiller Tracker Can Phone; Type: TGP79AB; Serial: 001033000030552

* Communication System: PCS; Frequency: 1880 MHz; Duty Cycle: 1:8.3

* Medium parameters used: $\sigma = 1.43935$; mho/m, $\epsilon_r = 38.776$; $\rho = 1000$ kg/m³

- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1377; ConvF(5.1, 5.1, 5.1)

- Phantom: SAM 12; Serial: 1060; Phantom section: Left Section

Channel 661 Test/Area Scan (131x81x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 10.5 V/m; Power Drift = -0.0 dB

Maximum value of SAR (interpolated) = 0.250 mW/g

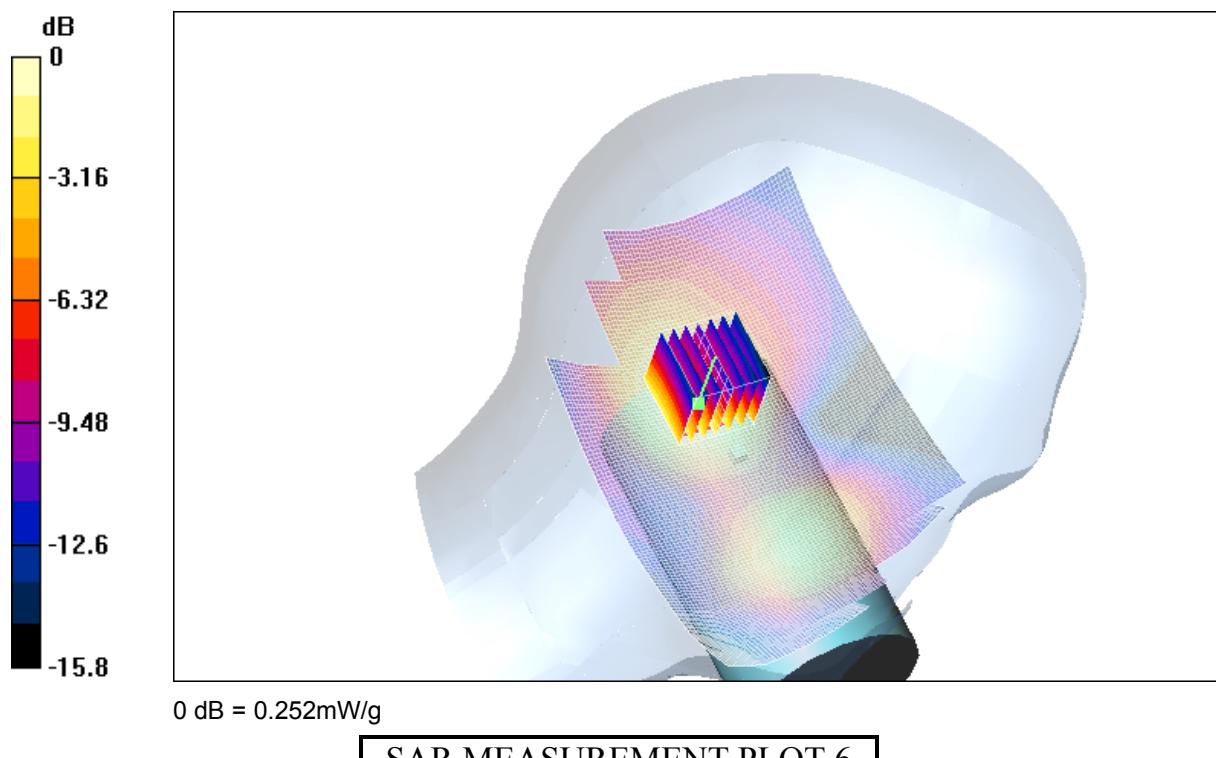
Channel 661 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 10.5 V/m; Power Drift = -0.0 dB

Maximum value of SAR (measured) = 0.252 mW/g

Peak SAR (extrapolated) = 0.357 W/kg

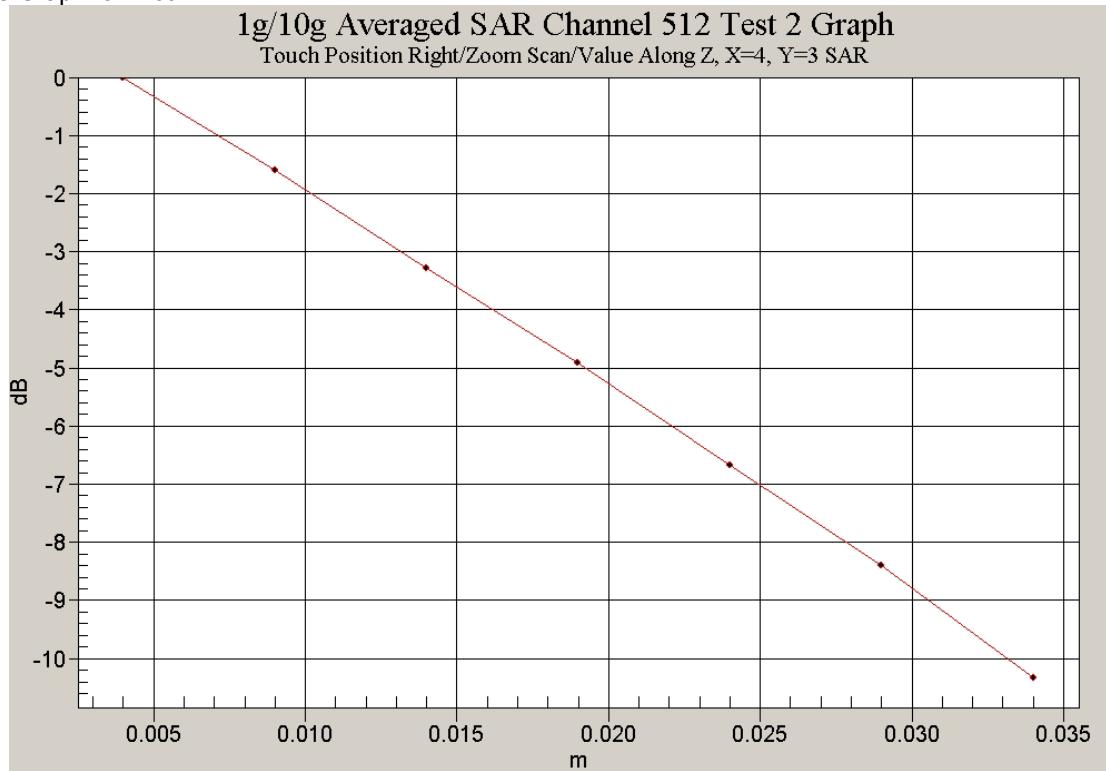
SAR(1 g) = 0.233 mW/g; SAR(10 g) = 0.142 mW/g



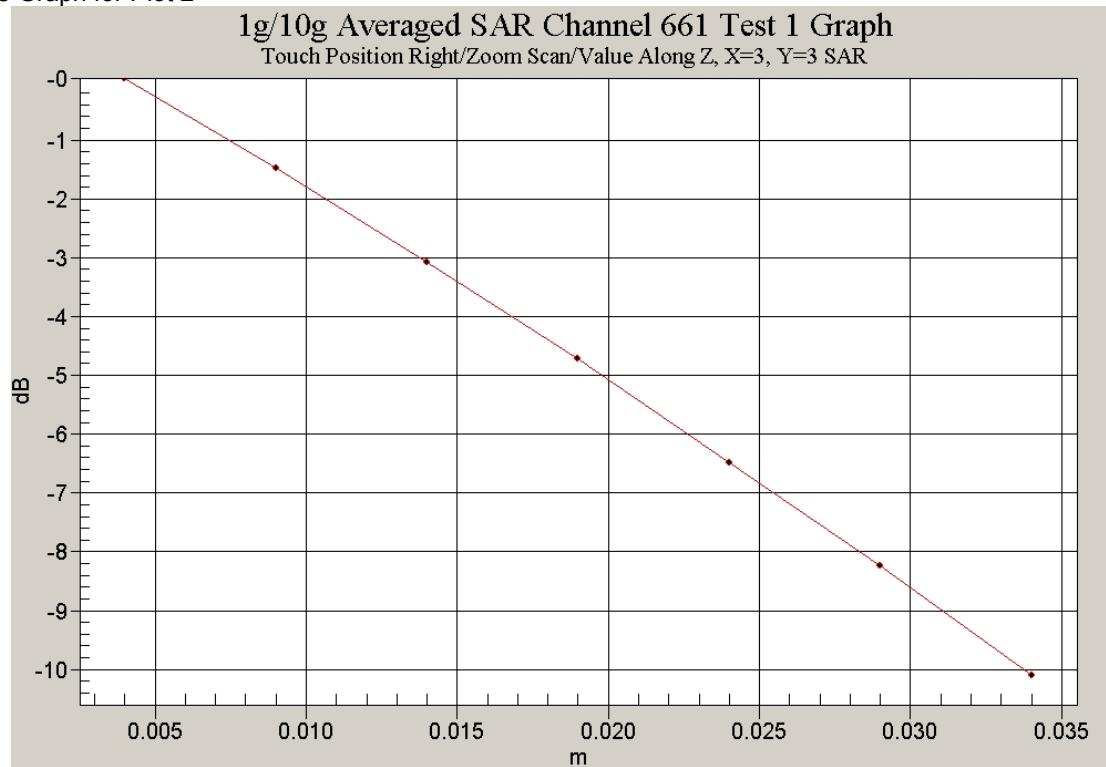
Ambient Temperature
Liquid Temperature
Humidity

21.9 Degrees Celsius
21.1 Degrees Celsius
52 %

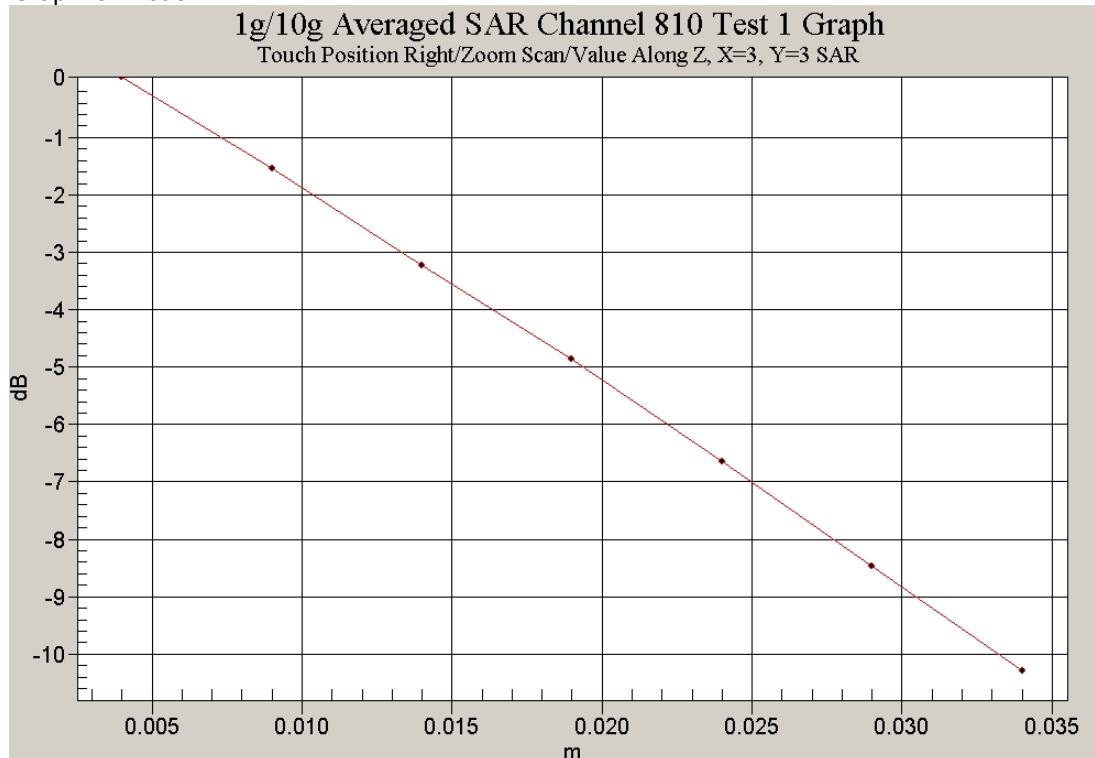
Z-Axis Graph for Plot 1



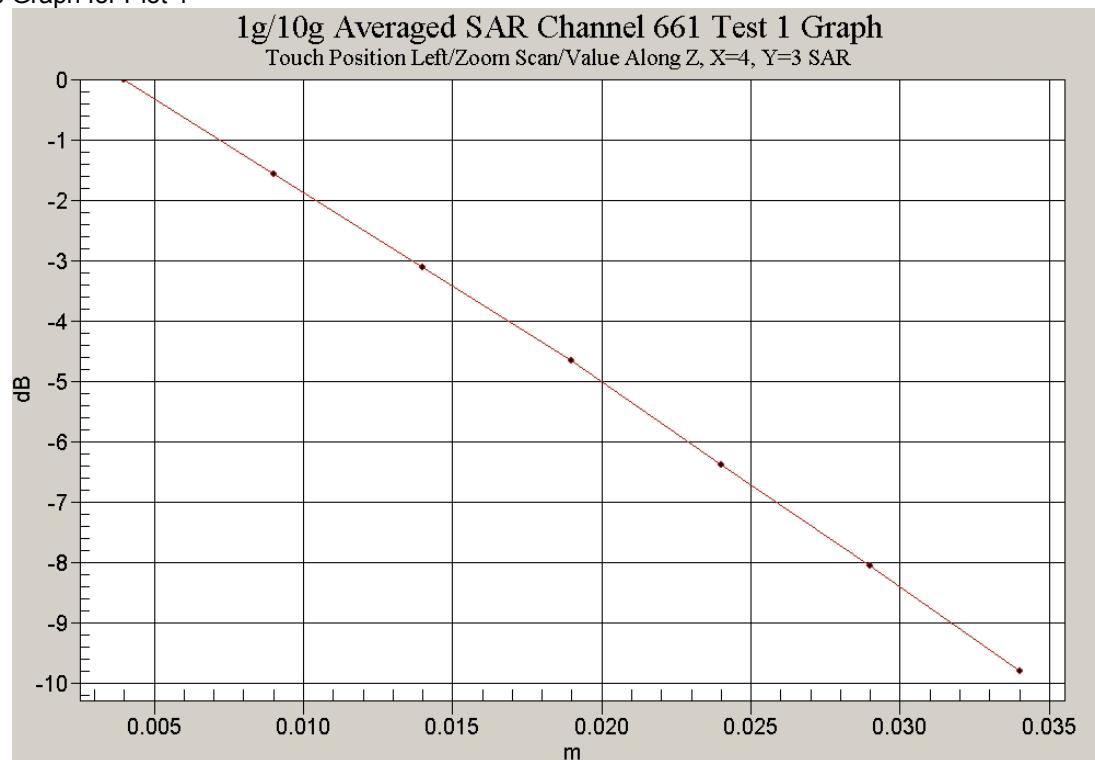
Z-Axis Graph for Plot 2



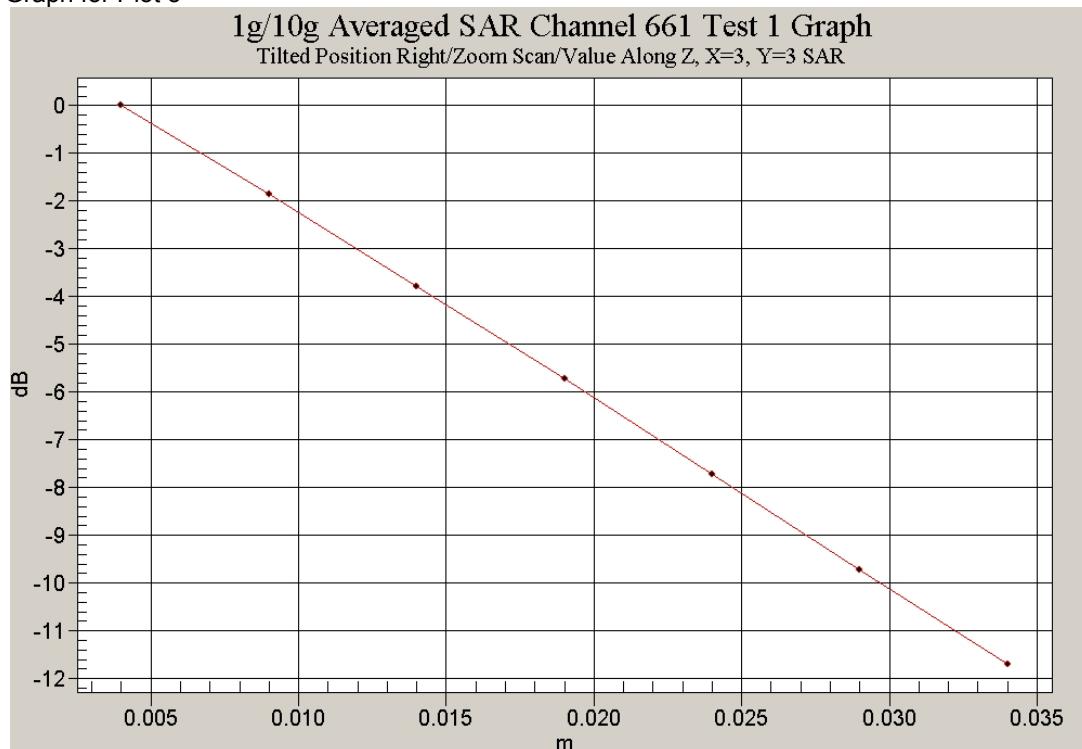
Z-Axis Graph for Plot 3



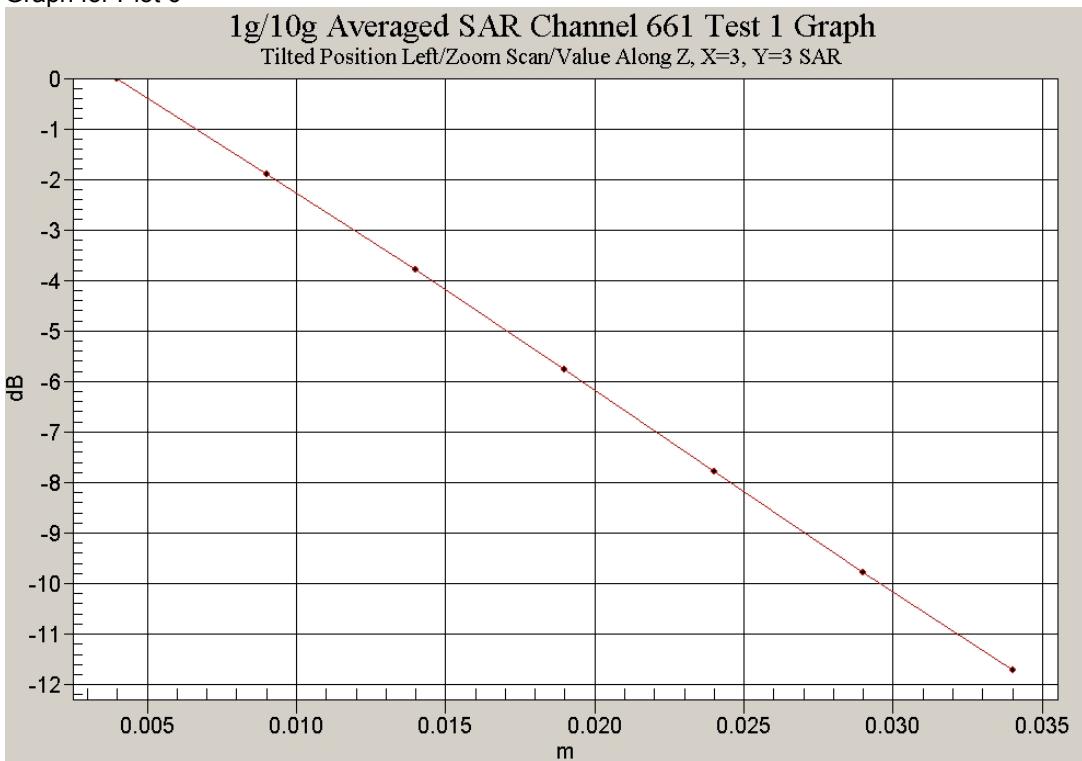
Z-Axis Graph for Plot 4



Z-Axis Graph for Plot 5



Z-Axis Graph for Plot 6



Test Date: 17 March 2004

File Name: [Validation 1800 MHz \(DAE442 Probe1377\) 17-03-04.da4](#)

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

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

* Medium parameters used: $\sigma = 1.39578$ mho/m, $\epsilon_r = 39.052$; $\rho = 1000$ kg/m³

- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1377; ConvF(5.1, 5.1, 5.1)

- Phantom: SAM 12; Serial: 1060; Phantom section: Flat Section

Channel 1 Test 2/Area Scan (61x61x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 95.7 V/m; Power Drift = 0.0 dB

Maximum value of SAR (interpolated) = 11.3 mW/g

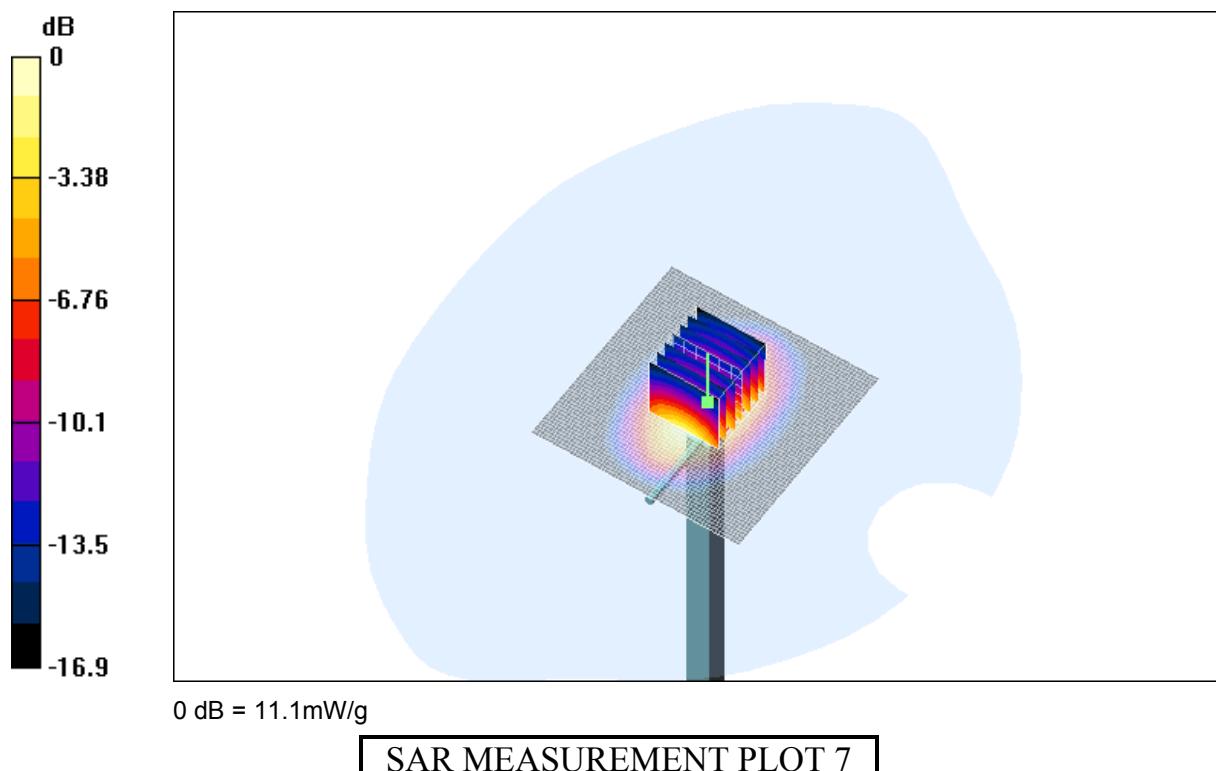
Channel 1 Test 2/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 95.7 V/m; Power Drift = 0.0 dB

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

Peak SAR (extrapolated) = 17.1 W/kg

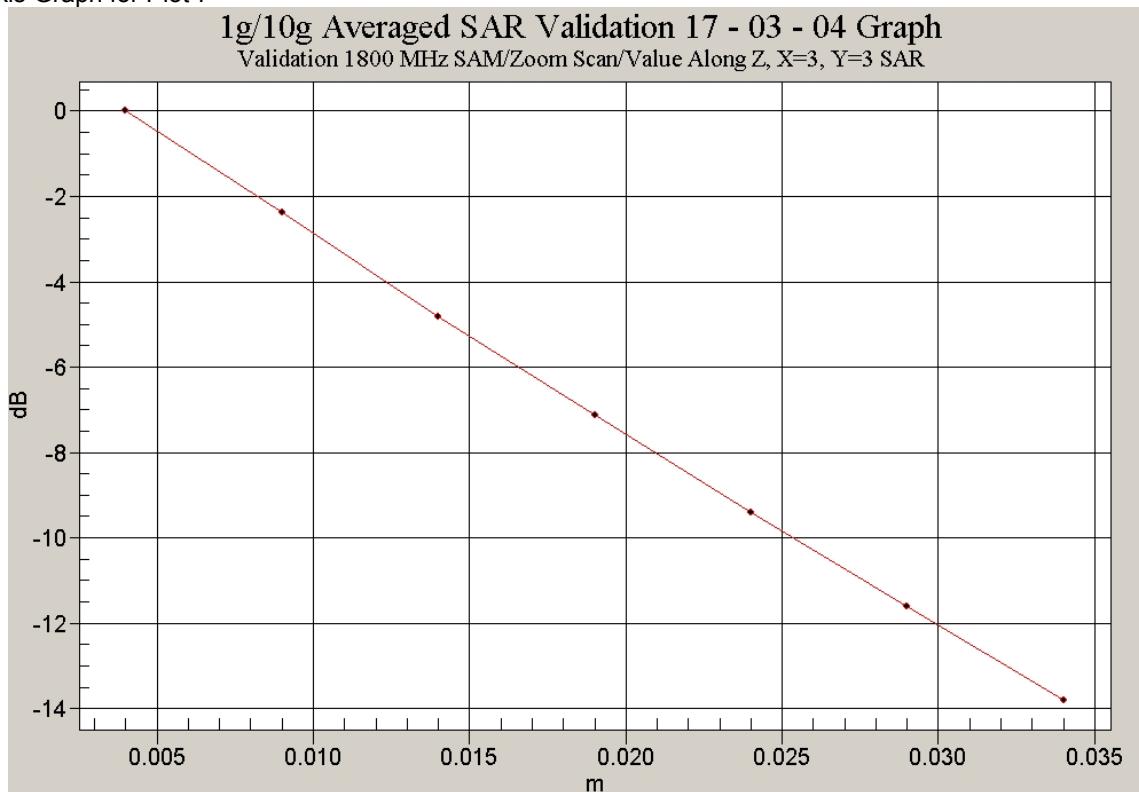
SAR(1 g) = 9.87 mW/g; SAR(10 g) = 5.24 mW/g



Ambient Temperature
Liquid Temperature
Humidity

21.9 Degrees Celsius
21.1 Degrees Celsius
52 %

Z-Axis Graph for Plot 7



This document shall not be copied or reproduced, except in full without the written

permission of the Technical Director , EMC Technologies Pty. Ltd.

The certificate on page 3 may be reproduced in full.

www.emctech.com.au

APPENDIX C
SAR TESTING EQUIPMENT CALIBRATION CERTIFICATE ATTACHMENTS

Calibration Certificate Attachments

1. 1800 MHz Dipole Calibration Sheet	7 Pages
2. E-Field Probe Calibration Sheet	10 Pages

This document shall not be copied or reproduced, except in full without the written

permission of the Technical Director , EMC Technologies Pty. Ltd.

The certificate on page 3 may be reproduced in full.

www.emctech.com.au