

Test Date: 6 March 2006

File Name: [Edge On DSSS 2450 MHz Versalius Antenna Aux Bluetooth Off 06-03-06.da4](#)

DUT: Fujitsu Tablet Versalius with Golan 11abg and Bluetooth; Type: WM3945ABG; Serial: 028CCF455CVD26533003

\* Communication System: DSSS 2450 MHz; Frequency: 2412 MHz; Duty Cycle: 1:1

\* Medium parameters used:  $\sigma = 1.9081$  mho/m,  $\epsilon_r = 52.2262$ ;  $\rho = 1000$  kg/m<sup>3</sup>

- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1377; ConvF(3.99, 3.99, 3.99)

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

**Channel 1 Test/Area Scan (81x101x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.459 mW/g

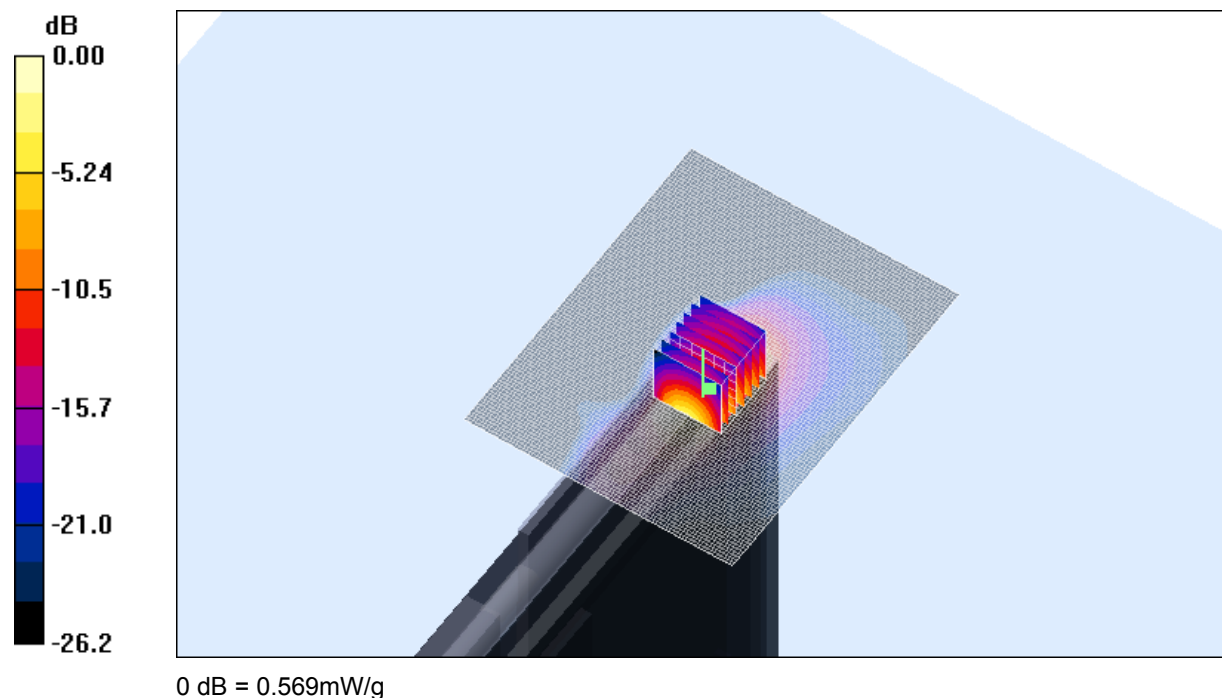
**Channel 1 Test/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 10.8 V/m; Power Drift = 0.321 dB

Peak SAR (extrapolated) = 1.05 W/kg

**SAR(1 g) = 0.479 mW/g; SAR(10 g) = 0.201 mW/g**

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



SAR MEASUREMENT PLOT 12

Ambient Temperature  
Liquid Temperature  
Humidity

21.1 Degrees Celsius  
20.7 Degrees Celsius  
59.0 %

Test Date: 6 March 2006

File Name: [Edge On DSSS 2450 MHz Versalius Antenna Aux Bluetooth Off 06-03-06.da4](#)

DUT: Fujitsu Tablet Versalius with Golan 11abg and Bluetooth; Type: WM3945ABG; Serial: 028CCF455CVD26533003

\* Communication System: DSSS 2450 MHz; Frequency: 2437 MHz; Duty Cycle: 1:1

\* Medium parameters used:  $\sigma = 1.94179$  mho/m,  $\epsilon_r = 52.0941$ ;  $\rho = 1000$  kg/m<sup>3</sup>

- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1377; ConvF(3.99, 3.99, 3.99)

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

**Channel 6 Test/Area Scan (81x101x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.07 mW/g

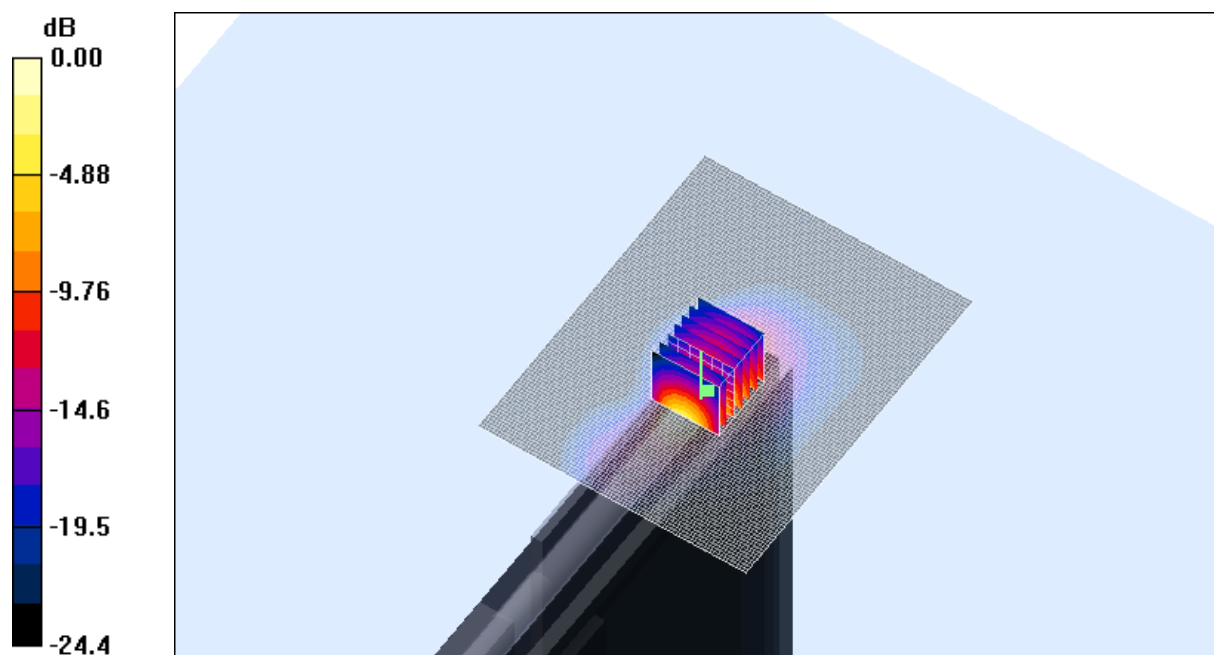
**Channel 6 Test/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 22.0 V/m; Power Drift = -0.085 dB

Peak SAR (extrapolated) = 2.01 W/kg

**SAR(1 g) = 0.886 mW/g; SAR(10 g) = 0.366 mW/g**

Maximum value of SAR (measured) = 1.06 mW/g



SAR MEASUREMENT PLOT 13

Ambient Temperature  
Liquid Temperature  
Humidity

21.1 Degrees Celsius  
20.7 Degrees Celsius  
59.0 %

Test Date: 6 March 2006

File Name: [Edge On DSSS 2450 MHz Versalius Antenna Aux Bluetooth Off 06-03-06.da4](#)

DUT: Fujitsu Tablet Versalius with Golan 11abg and Bluetooth; Type: WM3945ABG; Serial: 028CCF455CVD26533003

\* Communication System: DSSS 2450 MHz; Frequency: 2462 MHz; Duty Cycle: 1:1

\* Medium parameters used:  $\sigma = 1.97735$  mho/m,  $\epsilon_r = 51.96$ ;  $\rho = 1000$  kg/m<sup>3</sup>

- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1377; ConvF(3.99, 3.99, 3.99)

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

**Channel 11 Test/Area Scan (81x101x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.938 mW/g

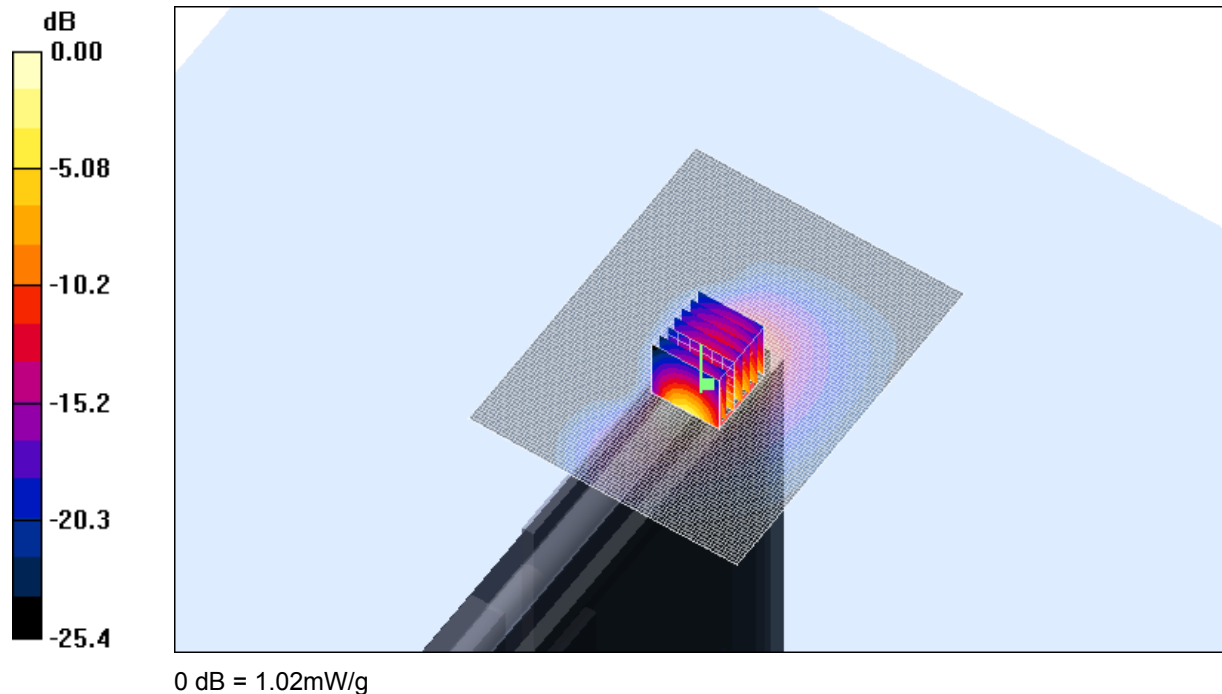
**Channel 11 Test/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 17.0 V/m; Power Drift = 0.309 dB

Peak SAR (extrapolated) = 1.98 W/kg

**SAR(1 g) = 0.882 mW/g; SAR(10 g) = 0.371 mW/g**

Maximum value of SAR (measured) = 1.02 mW/g

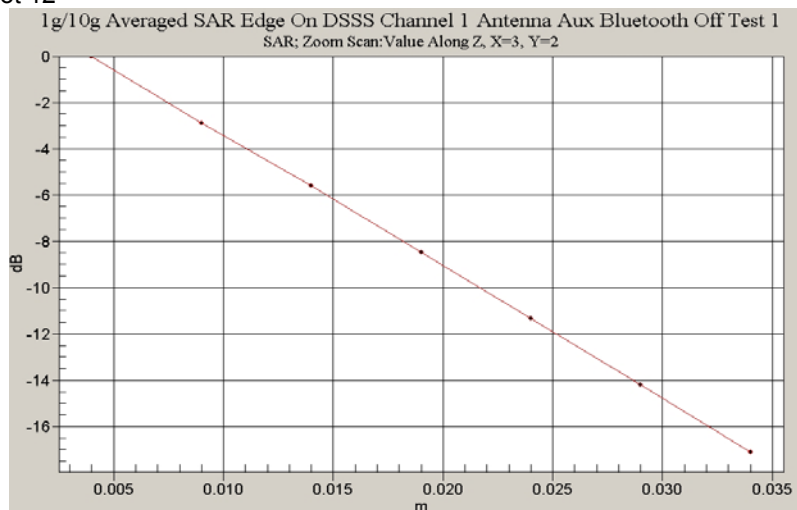


**SAR MEASUREMENT PLOT 14**

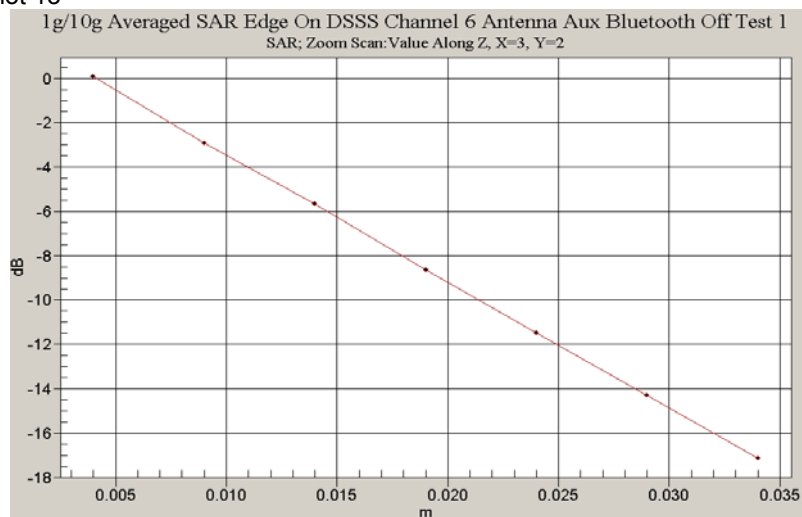
Ambient Temperature  
Liquid Temperature  
Humidity

21.1 Degrees Celsius  
20.7 Degrees Celsius  
59.0 %

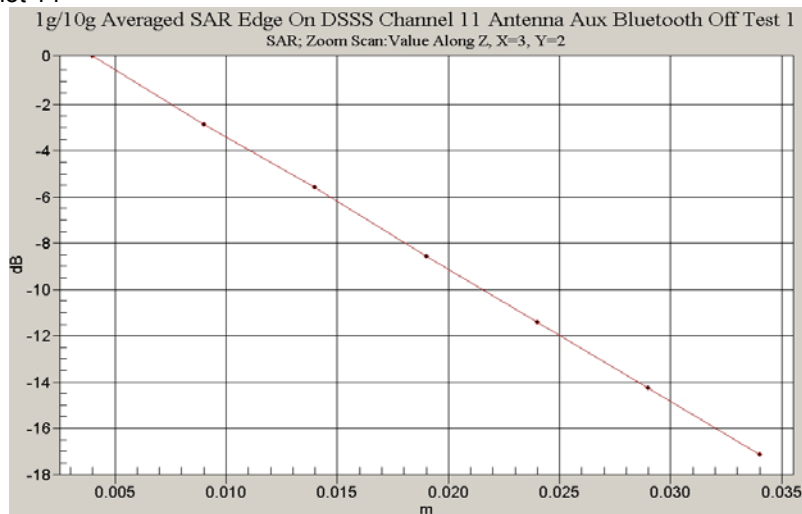
Z-Axis graph for Plot 12



Z-Axis graph for Plot 13



Z-Axis graph for Plot 14



Test Date: 7 March 2006

File Name: [Tablet DSSS 2450 MHz Versalius Antenna Aux Bluetooth On Prescan 07-03-06.da4](#)

DUT: Fujitsu Tablet Versalius with Golan 11abg and Bluetooth; Type: WM3945ABG; Serial: 028CCF455CVD26533003

\* Communication System: DSSS 2450 MHz; Frequency: 2437 MHz; Duty Cycle: 1:1

\* Medium parameters used:  $\sigma = 1.94551$  mho/m,  $\epsilon_r = 51.3217$ ;  $\rho = 1000$  kg/m<sup>3</sup>

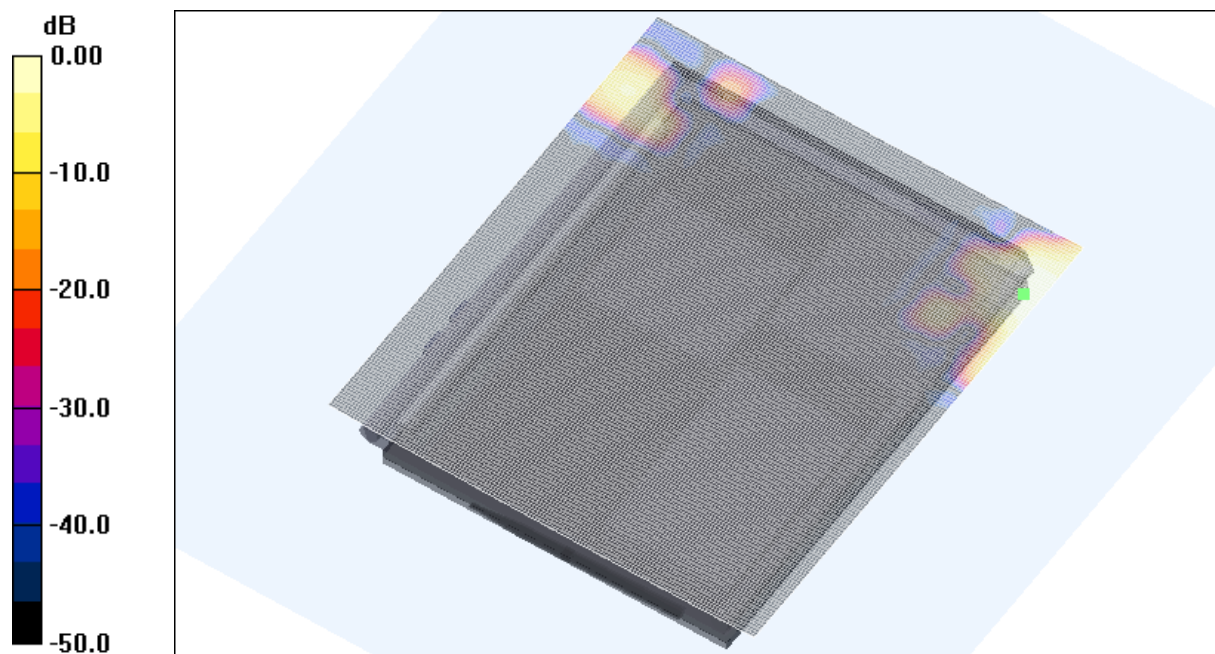
- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1377; ConvF(3.99, 3.99, 3.99)

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

**Channel 6 Bluetooth at 2441 MHz Test/Area Scan (141x161x1):** Measurement grid:

dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.011 mW/g



SAR MEASUREMENT PLOT 15

Ambient Temperature  
Liquid Temperature  
Humidity

21.2 Degrees Celsius  
20.8 Degrees Celsius  
45.0 %

Test Date: 7 March 2006

File Name: [Arm Held DSSS 2450 MHz Versalium Antenna Main Bluetooth On 07-03-06.da4](#)

DUT: Fujitsu Tablet Versalium with Golan 11abg and Bluetooth; Type: WM3945ABG; Serial: 028CCF455CVD26533003

\* Communication System: DSSS 2450 MHz; Frequency: 2462 MHz; Duty Cycle: 1:1

\* Medium parameters used:  $\sigma = 1.98722$  mho/m,  $\epsilon_r = 51.1751$ ;  $\rho = 1000$  kg/m<sup>3</sup>

- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1377; ConvF(3.99, 3.99, 3.99)

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

**Channel 11 Test/Area Scan (81x101x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.85 mW/g

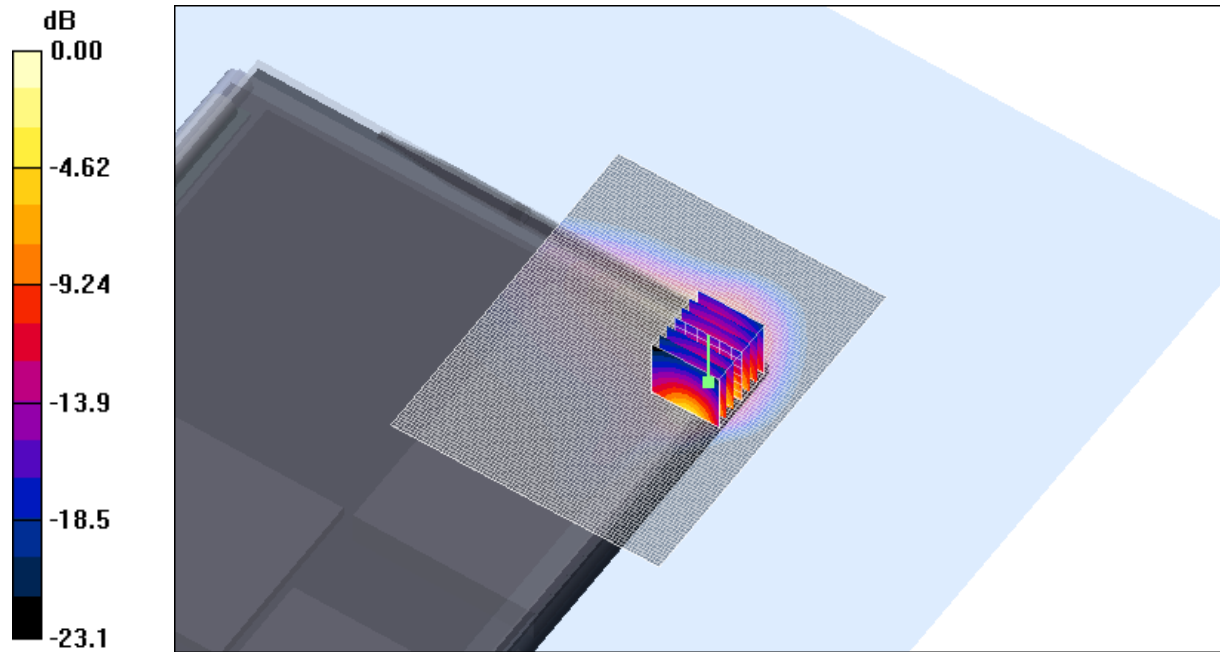
**Channel 11 Test/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 24.1 V/m; Power Drift = -0.052 dB

Peak SAR (extrapolated) = 2.92 W/kg

**SAR(1 g) = 1.39 mW/g; SAR(10 g) = 0.625 mW/g**

Maximum value of SAR (measured) = 1.62 mW/g



0 dB = 1.62mW/g

**SAR MEASUREMENT PLOT 16**

Ambient Temperature  
Liquid Temperature  
Humidity

21.2 Degrees Celsius  
20.8 Degrees Celsius  
45.0 %

Test Date: 7 March 2006

File Name: [Arm Held DSSS 2450 MHz Versalius Antenna Aux Bluetooth On 07-03-06.da4](#)

DUT: Fujitsu Tablet Versalius with Golan 11abg and Bluetooth; Type: WM3945ABG; Serial: 028CCF455CVD26533003

\* Communication System: DSSS 2450 MHz; Frequency: 2462 MHz; Duty Cycle: 1:1

\* Medium parameters used:  $\sigma = 1.98722$  mho/m,  $\epsilon_r = 51.1751$ ;  $\rho = 1000$  kg/m<sup>3</sup>

- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1377; ConvF(3.99, 3.99, 3.99)

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

**Channel 11 Test/Area Scan (81x101x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.77 mW/g

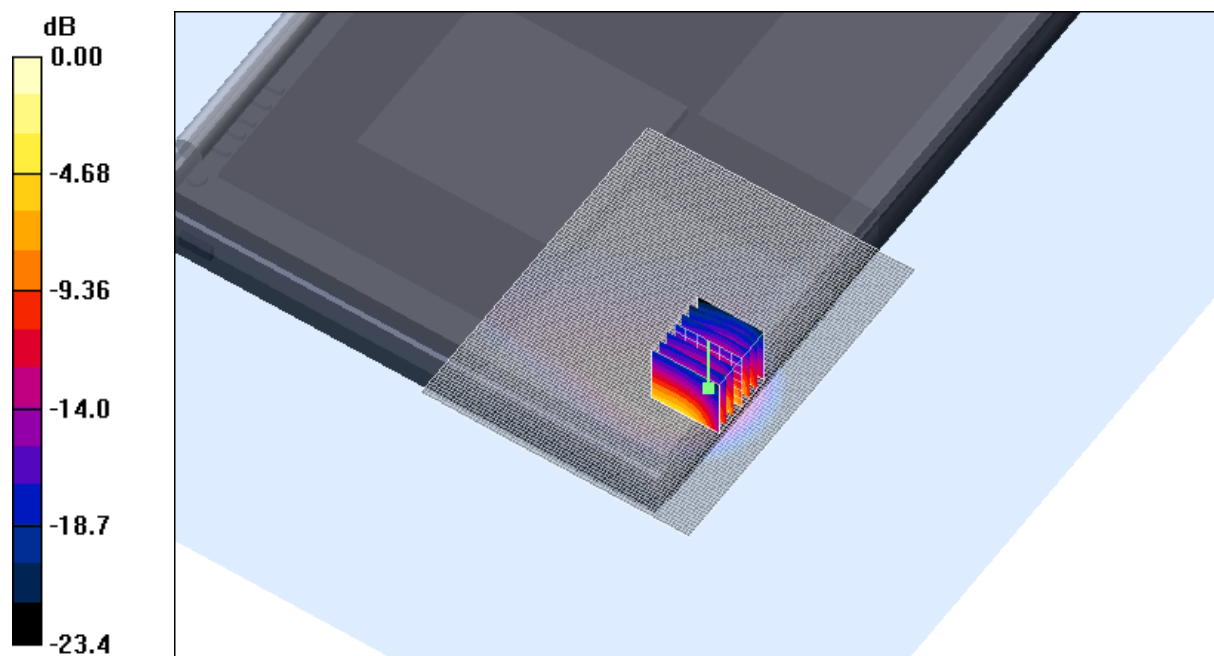
**Channel 11 Test/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 24.5 V/m; Power Drift = -0.122 dB

Peak SAR (extrapolated) = 2.98 W/kg

**SAR(1 g) = 1.27 mW/g; SAR(10 g) = 0.534 mW/g**

Maximum value of SAR (measured) = 1.50 mW/g



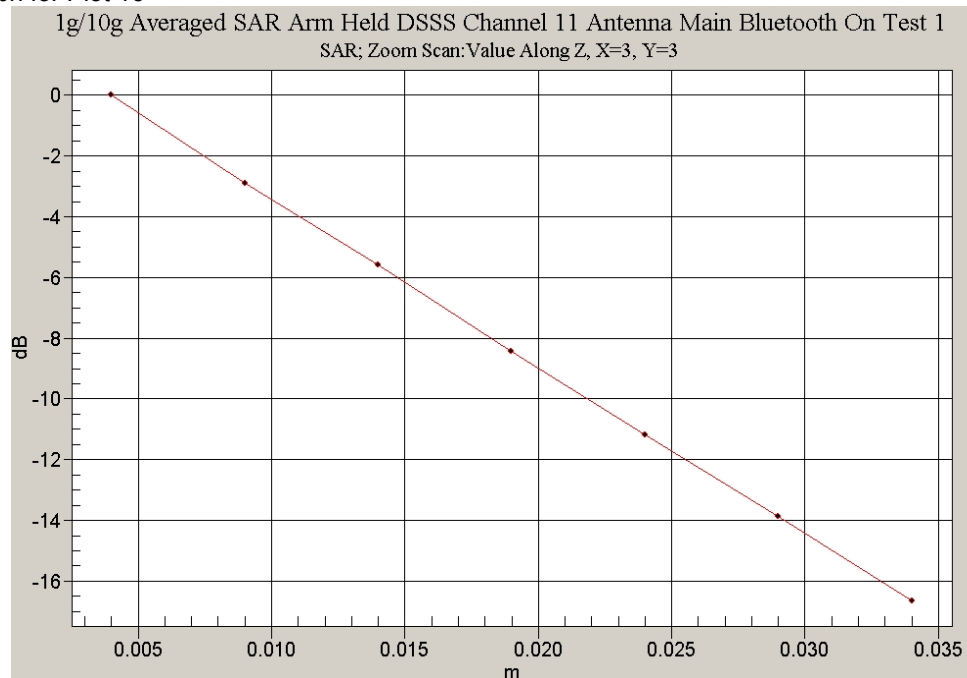
0 dB = 1.50mW/g

**SAR MEASUREMENT PLOT 17**

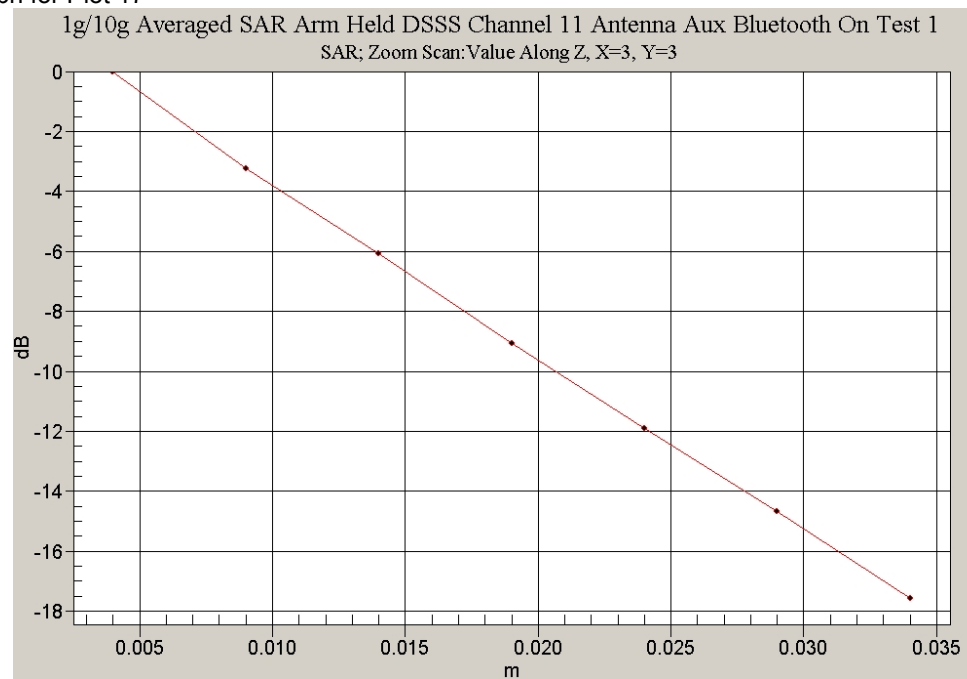
Ambient Temperature  
Liquid Temperature  
Humidity

21.2 Degrees Celsius  
20.8 Degrees Celsius  
45.0 %

Z-Axis graph for Plot 16



Z-Axis graph for Plot 17



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Test Date: 7 March 2006

File Name: [Arm Held OFDM 2450 MHz Versalius Antenna Main Bluetooth Off 07-03-06.da4](#)

DUT: Fujitsu Tablet Versalius with Golan 11abg and Bluetooth; Type: WM3945ABG; Serial: 028CCF455CVD26533003

\* Communication System: OFDM 2450 MHz; Frequency: 2437 MHz; Duty Cycle: 1:1

\* Medium parameters used:  $\sigma = 1.94551$  mho/m,  $\epsilon_r = 51.3217$ ;  $\rho = 1000$  kg/m<sup>3</sup>

- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1377; ConvF(3.99, 3.99, 3.99)

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

**Channel 6 Test/Area Scan (81x101x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.32 mW/g

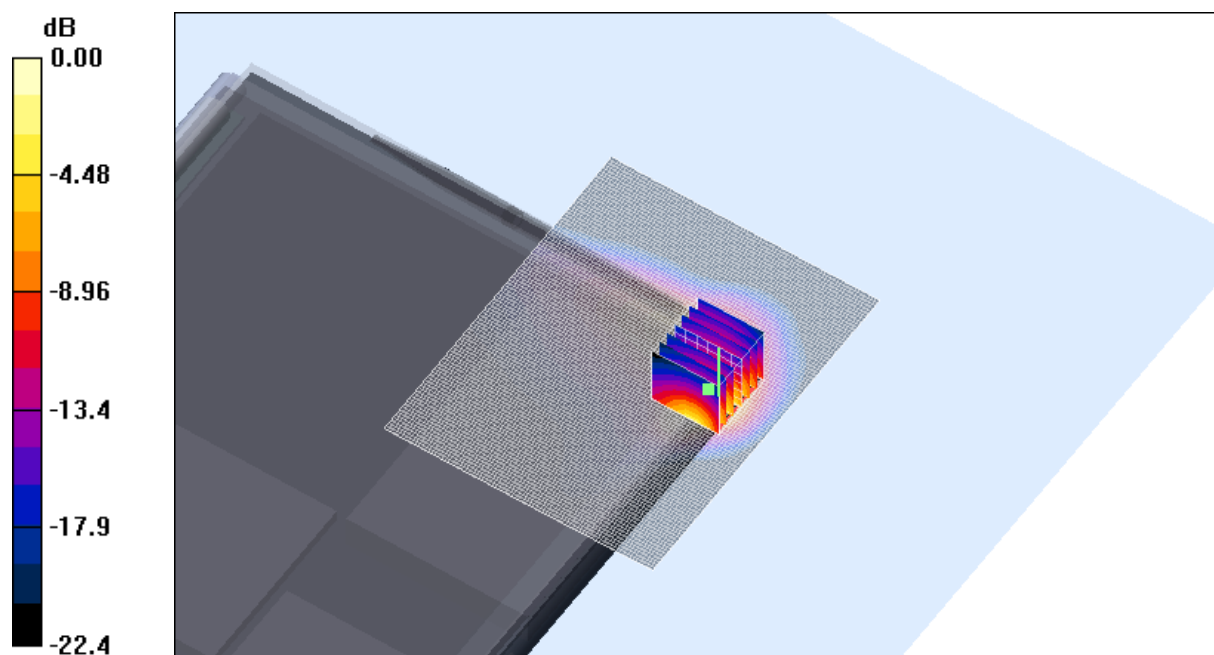
**Channel 6 Test/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 19.0 V/m; Power Drift = -0.020 dB

Peak SAR (extrapolated) = 2.40 W/kg

**SAR(1 g) = 1.14 mW/g; SAR(10 g) = 0.513 mW/g**

Maximum value of SAR (measured) = 1.29 mW/g



0 dB = 1.29mW/g

**SAR MEASUREMENT PLOT 18**

Ambient Temperature  
Liquid Temperature  
Humidity

21.2 Degrees Celsius  
20.8 Degrees Celsius  
45.0 %

Test Date: 7 March 2006

File Name: [Arm Held OFDM 2450 MHz Versalius Antenna Aux Bluetooth Off 07-03-06.da4](#)

DUT: Fujitsu Tablet Versalius with Golan 11abg and Bluetooth; Type: WM3945ABG; Serial: 028CCF455CVD26533003

\* Communication System: OFDM 2450 MHz; Frequency: 2437 MHz; Duty Cycle: 1:1

\* Medium parameters used:  $\sigma = 1.94551$  mho/m,  $\epsilon_r = 51.3217$ ;  $\rho = 1000$  kg/m<sup>3</sup>

- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1377; ConvF(3.99, 3.99, 3.99)

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

**Channel 6 Test/Area Scan (81x101x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.23 mW/g

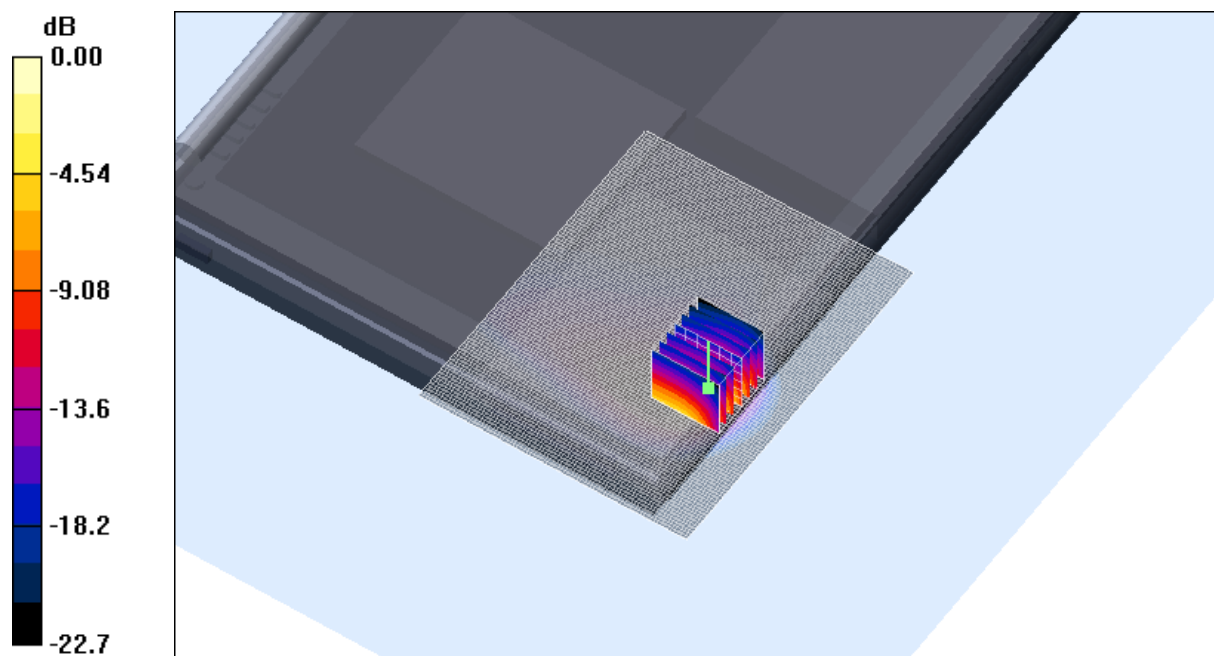
**Channel 6 Test/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 18.9 V/m; Power Drift = 0.183 dB

Peak SAR (extrapolated) = 2.31 W/kg

**SAR(1 g) = 0.994 mW/g; SAR(10 g) = 0.421 mW/g**

Maximum value of SAR (measured) = 1.19 mW/g



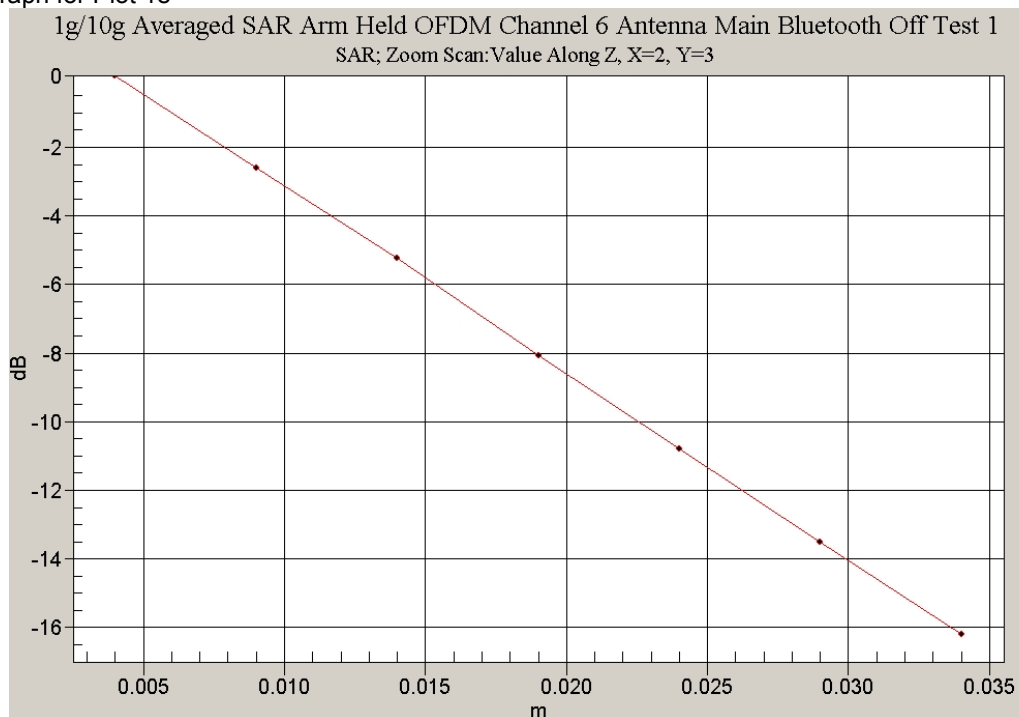
0 dB = 1.19mW/g

**SAR MEASUREMENT PLOT 19**

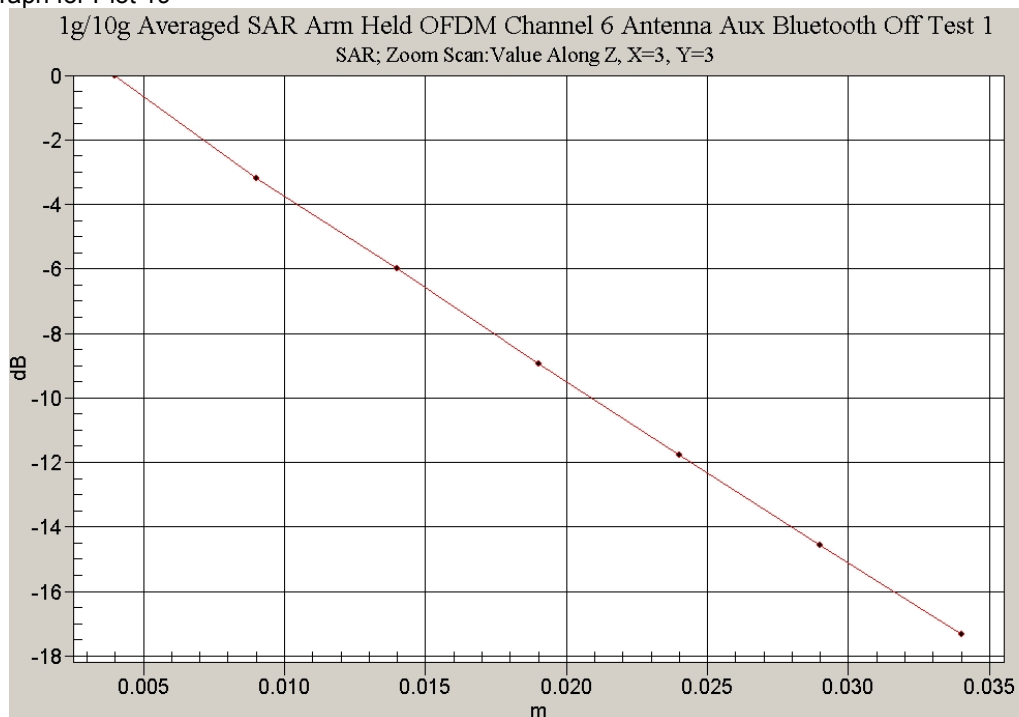
Ambient Temperature  
Liquid Temperature  
Humidity

21.2 Degrees Celsius  
20.8 Degrees Celsius  
45.0 %

Z-Axis graph for Plot 18



Z-Axis graph for Plot 19



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Test Date: 6 March 2006

File Name: [Validation 2450 MHz \(DAE442 Probe1377\) 06-03-06.da4](#)

DUT: Dipole 2450 MHz; Type: DV2450V2; Serial: 724

\* Communication System: CW 2450 MHz; Frequency: 2450 MHz; Duty Cycle: 1:1

\* Medium parameters used:  $\sigma = 1.78284$  mho/m,  $\epsilon_r = 38.8937$ ;  $\rho = 1000$  kg/m<sup>3</sup>

- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1377; ConvF(4.57, 4.57, 4.57)

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

**Channel 1 Test/Area Scan (51x51x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 18.7 mW/g

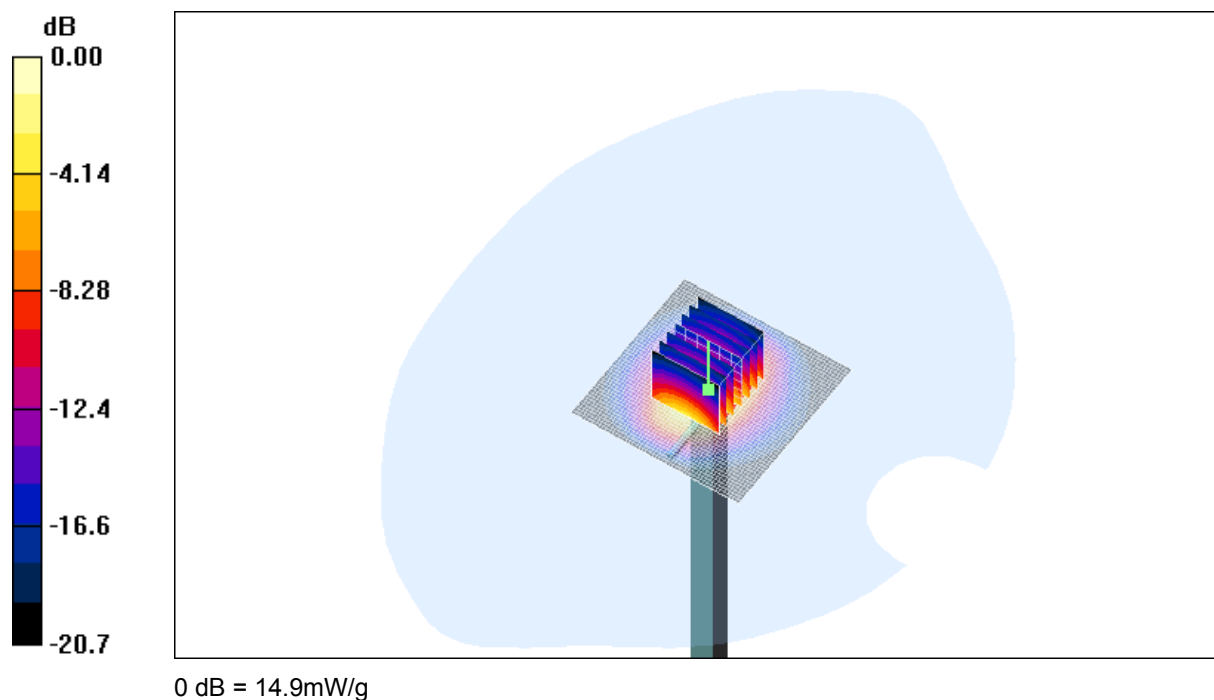
**Channel 1 Test/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 96.0 V/m; Power Drift = -0.061 dB

Peak SAR (extrapolated) = 26.4 W/kg

**SAR(1 g) = 13.1 mW/g; SAR(10 g) = 6.27 mW/g**

Maximum value of SAR (measured) = 14.9 mW/g



**SAR MEASUREMENT PLOT 20**

Ambient Temperature  
Liquid Temperature  
Humidity

21.1 Degrees Celsius  
20.7 Degrees Celsius  
59.0 %

Test Date: 7 March 2006

File Name: [Validation 2450 MHz \(DAE442 Probe1377\) 07-03-06.da4](#)

DUT: Dipole 2450 MHz; Type: DV2450V2; Serial: 724

\* Communication System: CW 2450 MHz; Frequency: 2450 MHz; Duty Cycle: 1:1

\* Medium parameters used:  $\sigma = 1.80547$  mho/m,  $\epsilon_r = 38.9069$ ;  $\rho = 1000$  kg/m<sup>3</sup>

- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1377; ConvF(4.57, 4.57, 4.57)

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

**Channel 1 Test/Area Scan (51x51x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 19.0 mW/g

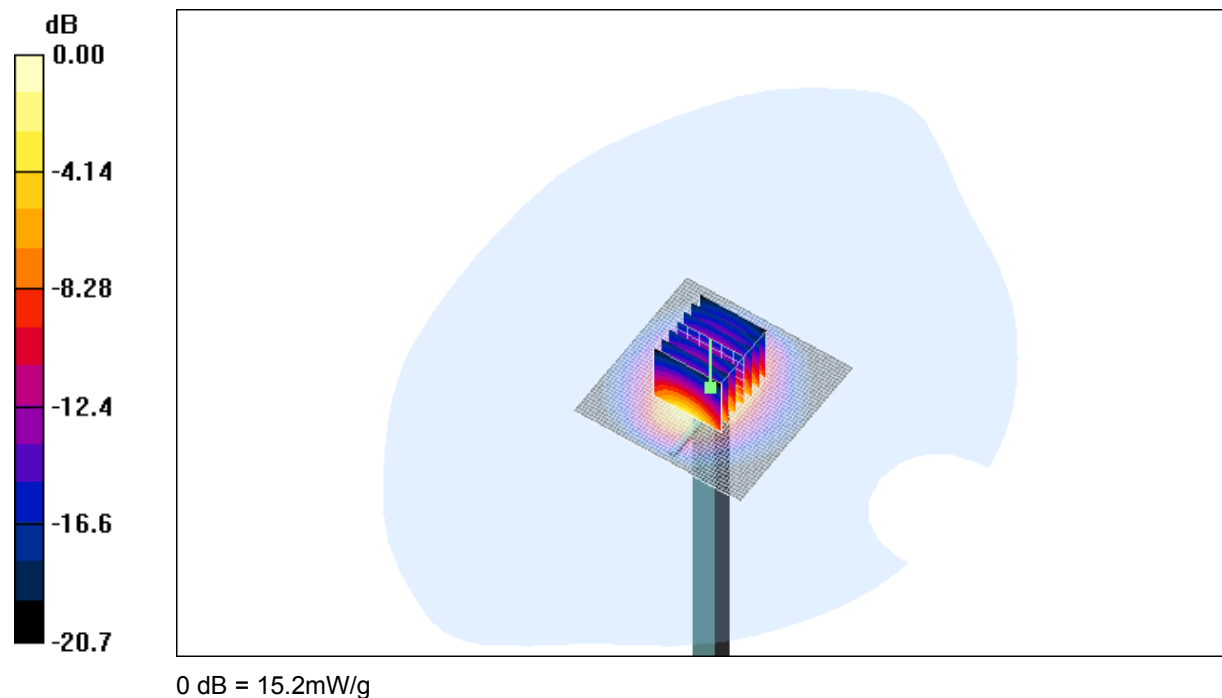
**Channel 1 Test/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 96.5 V/m; Power Drift = -0.051 dB

Peak SAR (extrapolated) = 27.0 W/kg

**SAR(1 g) = 13.4 mW/g; SAR(10 g) = 6.38 mW/g**

Maximum value of SAR (measured) = 15.2 mW/g

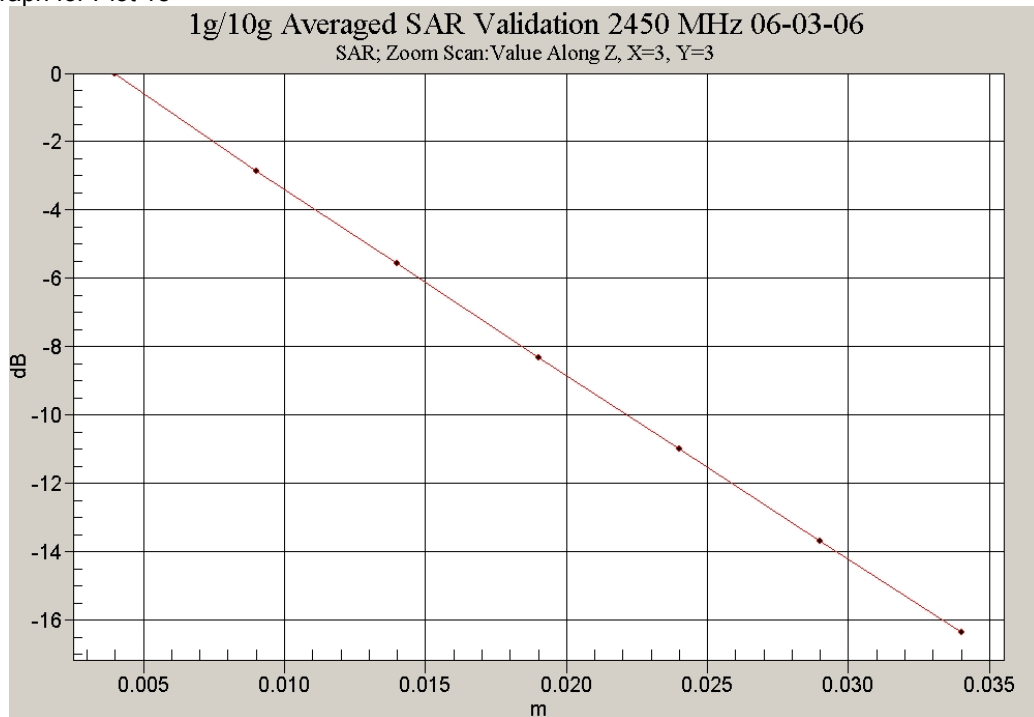


**SAR MEASUREMENT PLOT 21**

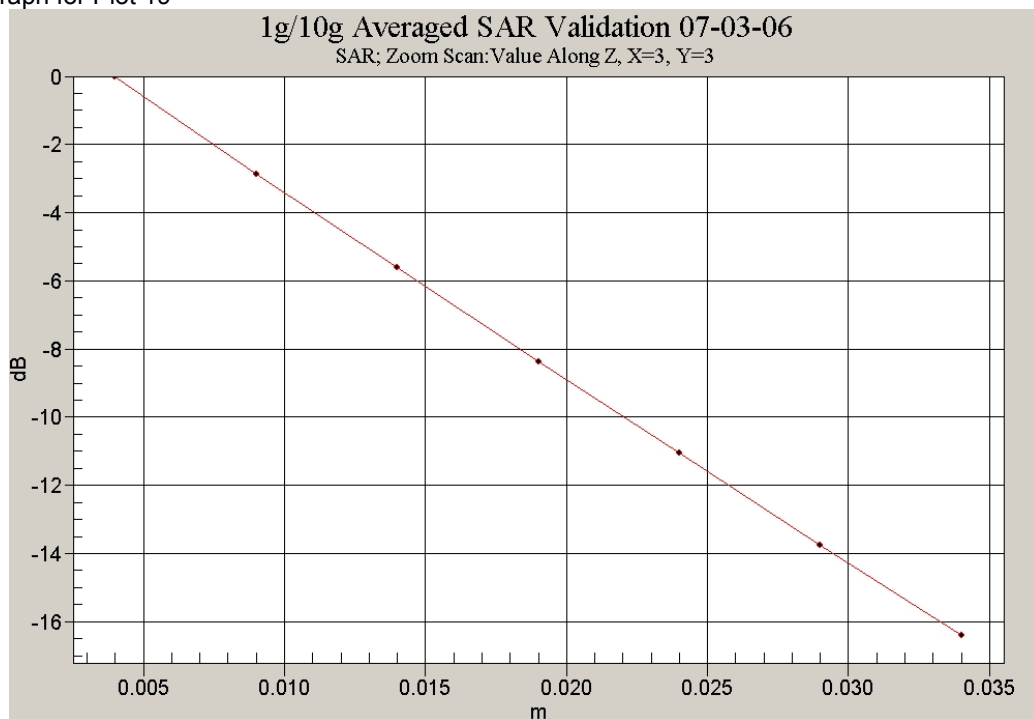
Ambient Temperature  
Liquid Temperature  
Humidity

21.2 Degrees Celsius  
20.8 Degrees Celsius  
45.0 %

Z-Axis graph for Plot 18



Z-Axis graph for Plot 19



## **APPENDIX C**

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

#### **Calibration Certificate Attachments**

- |                                           |          |
|-------------------------------------------|----------|
| 1. 2.5GHz E-Field Probe Calibration Sheet | 10 Pages |
| 2. 2.5GHz Dipole Calibration Sheet        | 6 pages  |