

APPENDIX B PLOTS OF THE SAR MEASUREMENTS

Plots of the measured SAR distributions inside the phantom are given in this Appendix for the “Lap Arm Held” and “Tablet” tested configurations. The spatial peak SAR values were assessed with the procedure described in this report.

Table 22: 2450 MHz DSSS Band SAR Measurement Plot Numbers

Plot 1	Tablet Position No Blue tooth CH#01	Page 28 – 29
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Test Date: 18 June 2004

File Name: [Tablet DSSS 2.45 GHz No Bluetooth Batt 4400MAh 18-06-04.da4](#)

DUT: Fujitsu Tablet Ocampa B1 with WLAN; Type: Calexico 11bg Module; Serial: No.37

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

* Medium parameters used: $\sigma = 1.9652$; mho/m, $\epsilon_r = 51.2063$; $\rho = 1000 \text{ kg/m}^3$

- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1380; ConvF(4.5, 4.5, 4.5)

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

Channel 01 Test/Area Scan (101x81x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 13 V/m; Power Drift = -0.1 dB

Maximum value of SAR (interpolated) = 0.355 mW/g

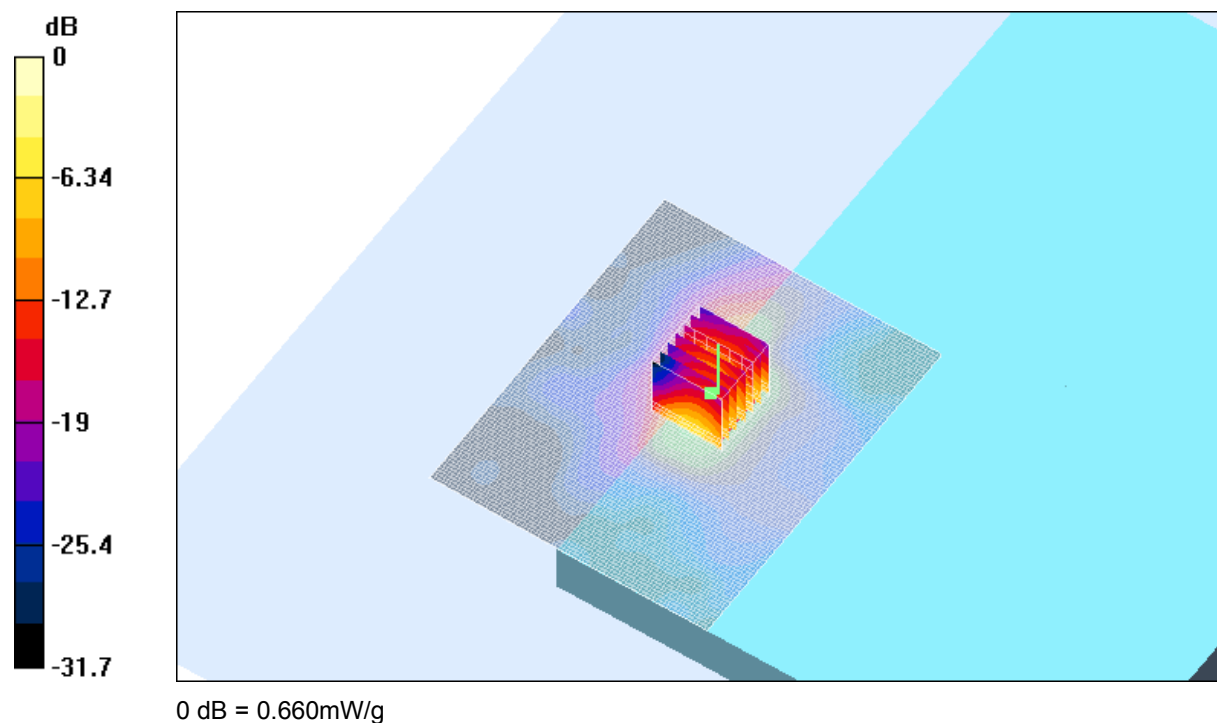
Channel 01 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 13 V/m; Power Drift = -0.1 dB

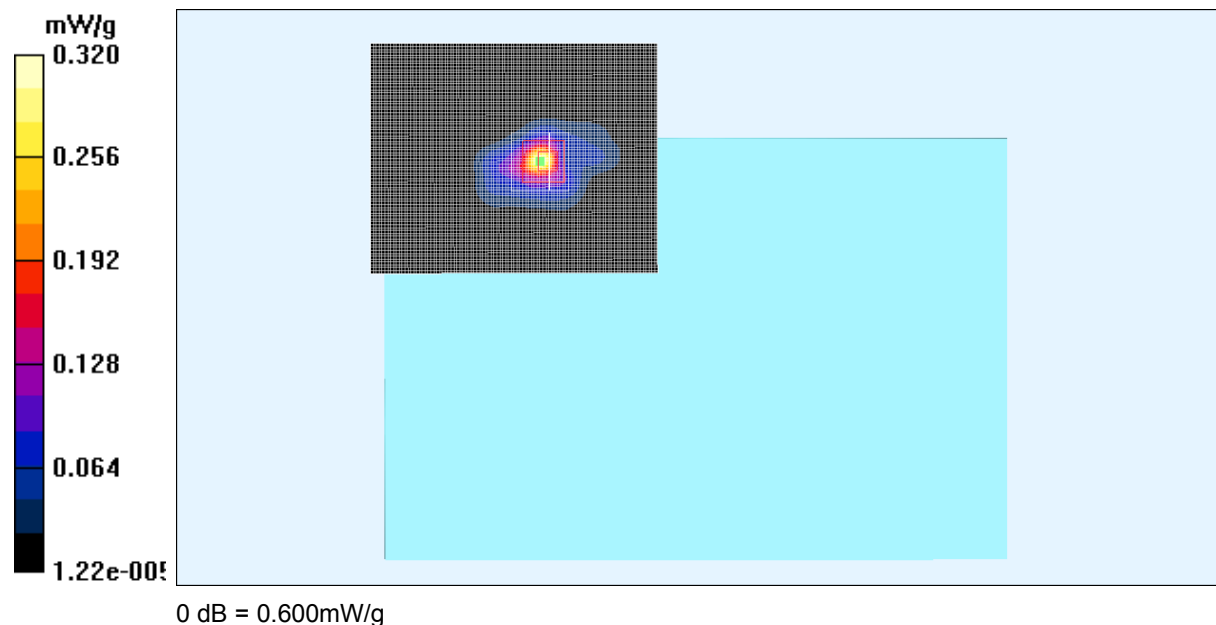
Maximum value of SAR (measured) = 0.660 mW/g

Peak SAR (extrapolated) = 1.19 W/kg

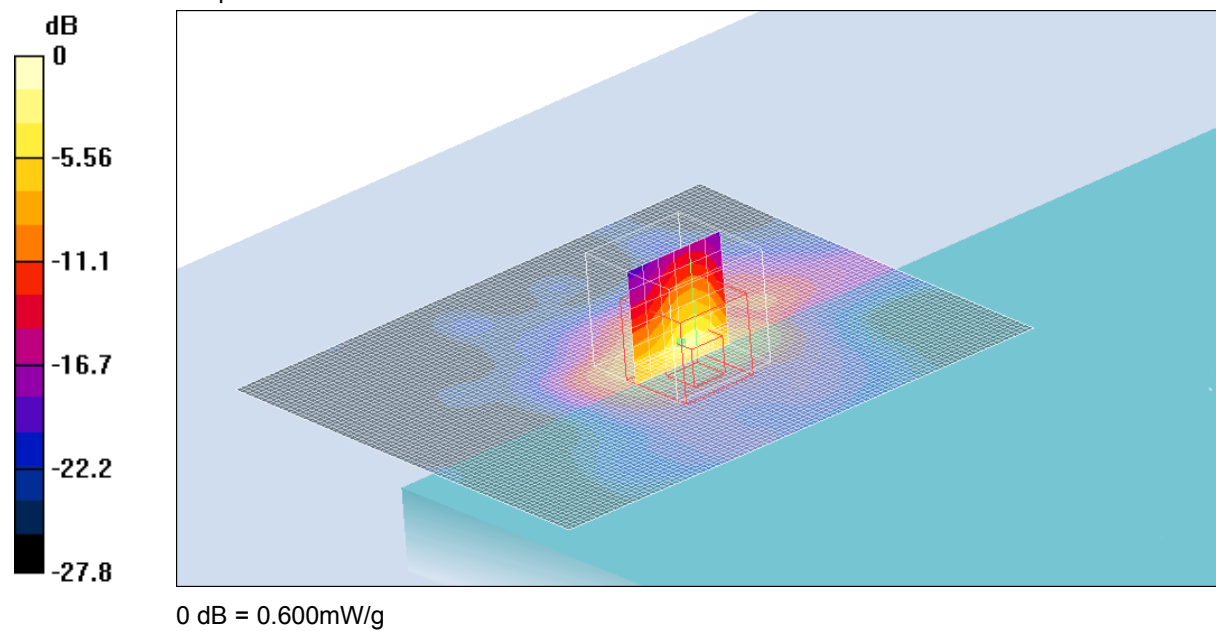
SAR(1 g) = 0.565 mW/g; SAR(10 g) = 0.246 mW/g



2D Area Scan



Zoom scan slice in plane of maximum SAR

**SAR MEASUREMENT PLOT 1**

Ambient Temperature
Liquid Temperature
Humidity

20.0 Degrees Celsius
19.5 Degrees Celsius
43 %

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Test Date: 18 June 2004

File Name: [Tablet DSSS 2.45 GHz No Bluetooth Batt 4400MAh 18-06-04.da4](#)

DUT: Fujitsu Tablet Ocampa B1 with WLAN; Type: Calexico 11bg Module; Serial: No.37

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

* Medium parameters used: $\sigma = 1.99767$; mho/m, $\epsilon_r = 51.0933$; $\rho = 1000 \text{ kg/m}^3$

- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1380; ConvF(4.5, 4.5, 4.5)

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

Channel 06 Test/Area Scan (101x81x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 12.1 V/m; Power Drift = 0.0 dB

Maximum value of SAR (interpolated) = 0.320 mW/g

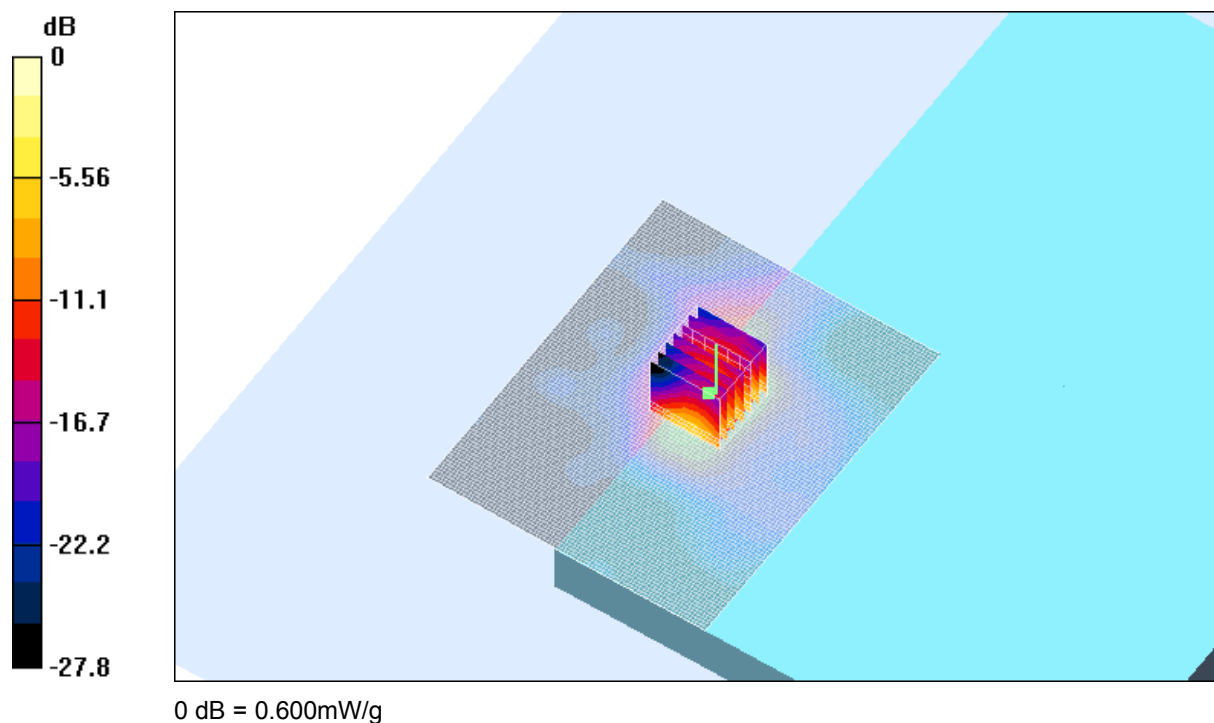
Channel 06 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

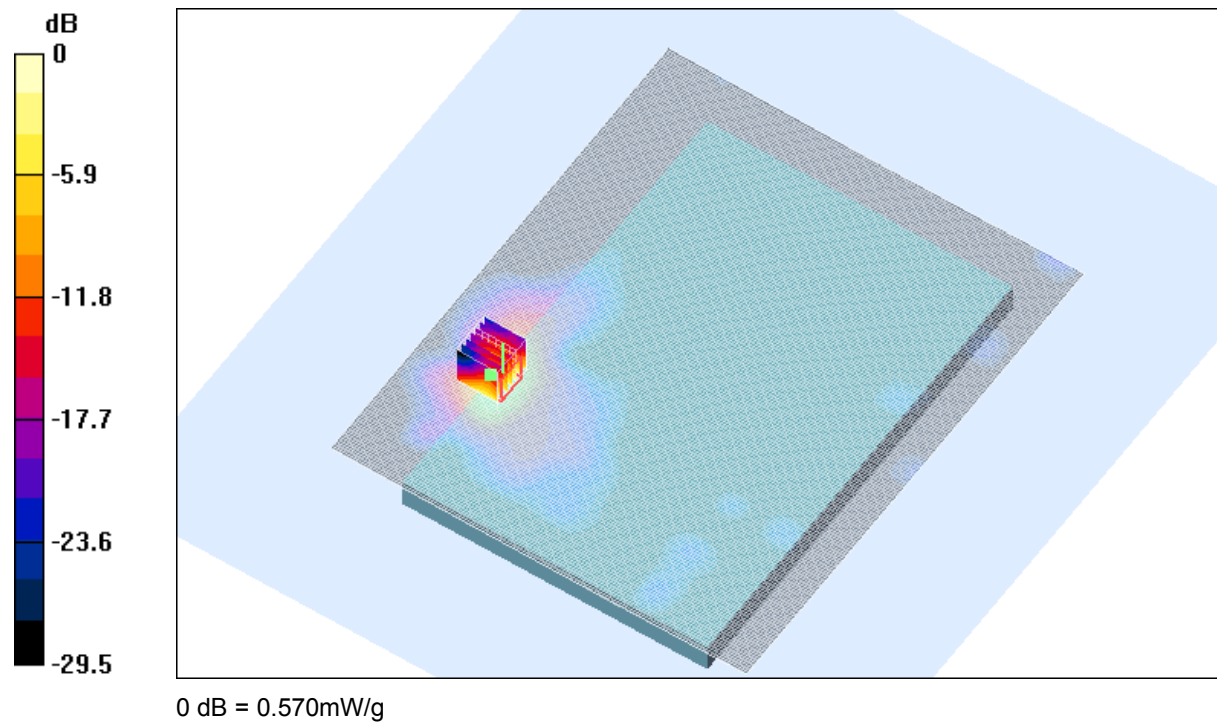
Reference Value = 12.1 V/m; Power Drift = 0.0 dB

Maximum value of SAR (measured) = 0.600 mW/g

Peak SAR (extrapolated) = 1.09 W/kg

SAR(1 g) = 0.510 mW/g; SAR(10 g) = 0.224 mW/g



**SAR MEASUREMENT PLOT 2**

Ambient Temperature
Liquid Temperature
Humidity

20.0 Degrees Celsius
19.5 Degrees Celsius
43 %

Test Date: 18 June 2004

File Name: [Tablet DSSS 2.45 GHz No Bluetooth Batt 4400MAh 18-06-04.da4](#)

DUT: Fujitsu Tablet Ocampa B1 with WLAN; Type: Calexico 11bg Module; Serial: No.37

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

* Medium parameters used: $\sigma = 2.03074$; mho/m, $\epsilon_r = 50.937$; $\rho = 1000 \text{ kg/m}^3$

- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1380; ConvF(4.5, 4.5, 4.5)

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

Channel 11 Test/Area Scan (101x81x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 11.9 V/m; Power Drift = -0.2 dB

Maximum value of SAR (interpolated) = 0.285 mW/g

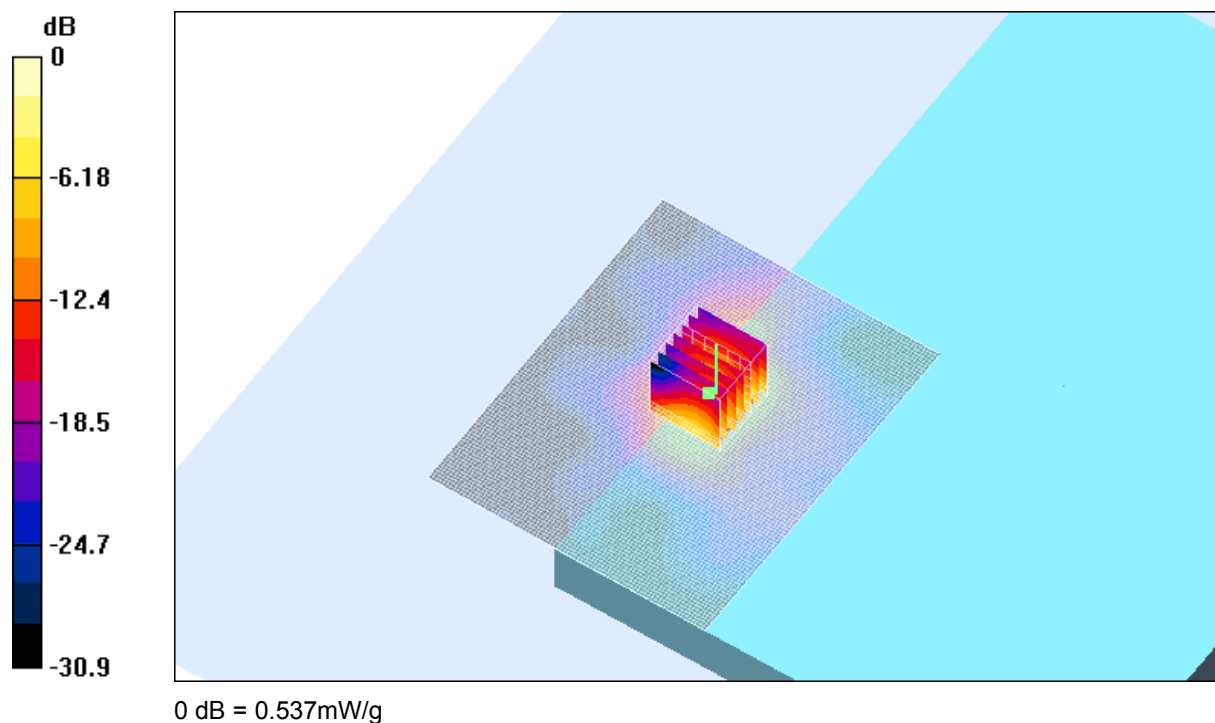
Channel 11 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 11.9 V/m; Power Drift = -0.2 dB

Maximum value of SAR (measured) = 0.537 mW/g

Peak SAR (extrapolated) = 0.992 W/kg

SAR(1 g) = 0.457 mW/g; SAR(10 g) = 0.204 mW/g

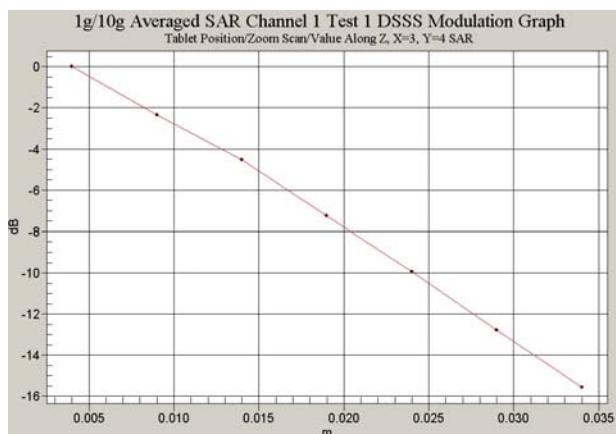


SAR MEASUREMENT PLOT 3

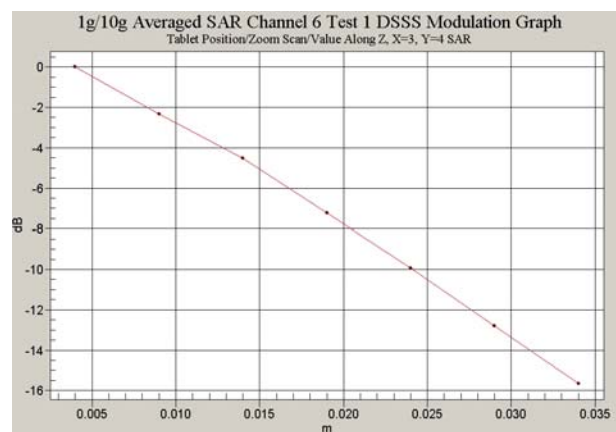
Ambient Temperature
Liquid Temperature
Humidity

20.0 Degrees Celsius
19.5 Degrees Celsius
43 %

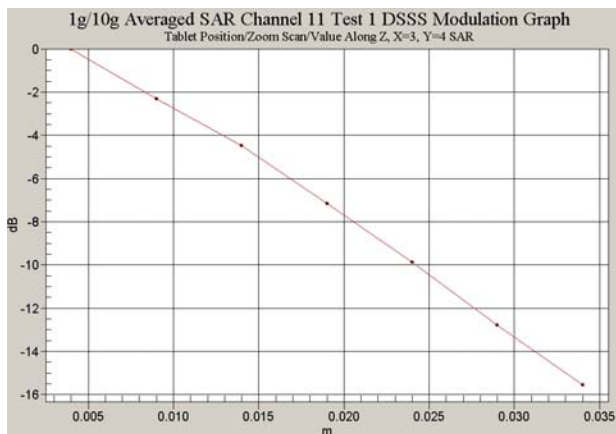
Z-axis scan for Plot 1



Z-axis scan for Plot 2



Z-axis scan for Plot 3



Test Date: 21 June 2004

File Name: [Tablet DSSS 2.45 GHz With Bluetooth Batt 4400MAh 21-06-04.da4](#)

DUT: Fujitsu Tablet Ocampa B1 with WLAN; Type: Calexico 11bg Module; Serial: No.37

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

* Medium parameters used: $\sigma = 1.93765$; mho/m, $\epsilon_r = 51.2148$; $\rho = 1000 \text{ kg/m}^3$

- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1380; ConvF(4.5, 4.5, 4.5)

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

Channel 01 Test Bluetooth Frequency 2402 MHz/Area Scan (101x81x1):

Measurement grid: dx=15mm, dy=15mm

Reference Value = 9.74 V/m; Power Drift = 0.3 dB

Maximum value of SAR (interpolated) = 0.338 mW/g

Channel 01 Test Bluetooth Frequency 2402 MHz/Zoom Scan (7x7x7)/Cube 0:

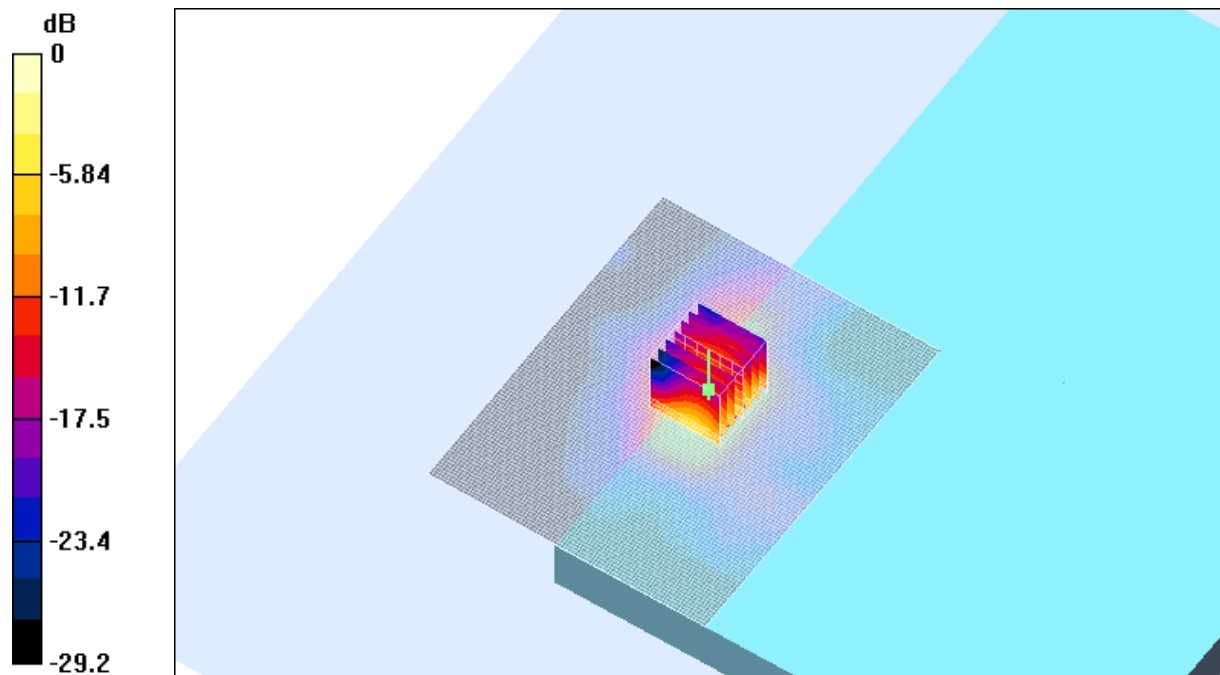
Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 9.74 V/m; Power Drift = 0.3 dB

Maximum value of SAR (measured) = 0.574 mW/g

Peak SAR (extrapolated) = 1.08 W/kg

SAR(1 g) = 0.504 mW/g; SAR(10 g) = 0.218 mW/g



0 dB = 0.574mW/g

SAR MEASUREMENT PLOT 4

Ambient Temperature
Liquid Temperature
Humidity

20.1 Degrees Celsius
19.7 Degrees Celsius
47 %

Test Date: 21 June 2004

File Name: [Tablet DSSS 2.45 GHz With Bluetooth Batt 4400MAh 21-06-04.da4](#)

DUT: Fujitsu Tablet Ocampa B1 with WLAN; Type: Calexico 11bg Module; Serial: No.37

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

* Medium parameters used: $\sigma = 1.93765$; mho/m, $\epsilon_r = 51.2148$; $\rho = 1000 \text{ kg/m}^3$

- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1380; ConvF(4.5, 4.5, 4.5)

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

Channel 01 Test Bluetooth Frequency 2441 MHz 2/Area Scan (101x81x1):

Measurement grid: dx=15mm, dy=15mm

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

Maximum value of SAR (interpolated) = 0.333 mW/g

Channel 01 Test 2 Bluetooth Frequency 2441 MHz/Zoom Scan (7x7x7)/Cube

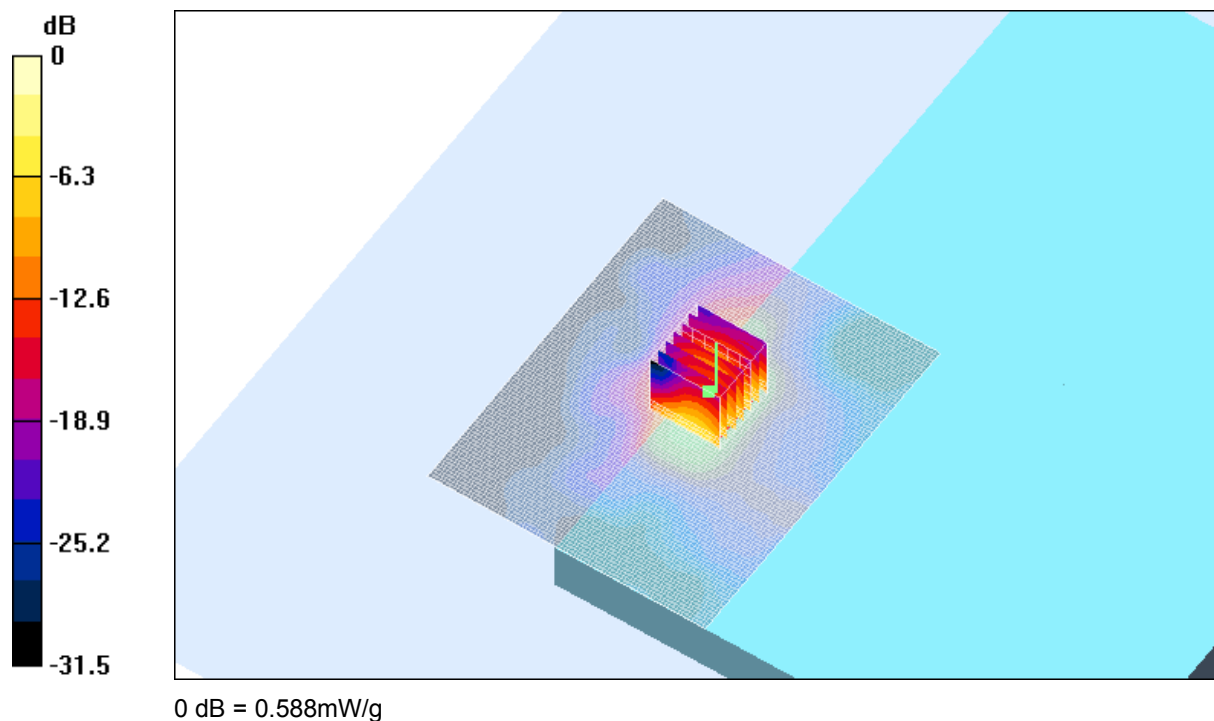
0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

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

Maximum value of SAR (measured) = 0.588 mW/g

Peak SAR (extrapolated) = 1.12 W/kg

SAR(1 g) = 0.513 mW/g; SAR(10 g) = 0.221 mW/g



SAR MEASUREMENT PLOT 5

Ambient Temperature
Liquid Temperature
Humidity

20.1 Degrees Celsius
19.7 Degrees Celsius
47 %

Test Date: 21 June 2004

File Name: [Tablet DSSS 2.45 GHz With Bluetooth Batt 4400MAh 21-06-04.da4](#)

DUT: Fujitsu Tablet Ocampa B1 with WLAN; Type: Calexico 11bg Module; Serial: No.37

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

* Medium parameters used: $\sigma = 1.93765$; mho/m, $\epsilon_r = 51.2148$; $\rho = 1000 \text{ kg/m}^3$

- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1380; ConvF(4.5, 4.5, 4.5)

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

Channel 01 Test Bluetooth Frequency 2480 MHz/Area Scan (101x81x1):

Measurement grid: dx=15mm, dy=15mm

Reference Value = 10.4 V/m; Power Drift = 0.1 dB

Maximum value of SAR (interpolated) = 0.338 mW/g

Channel 01 Test Bluetooth Frequency 2480 MHz/Zoom Scan (7x7x7)/Cube 0:

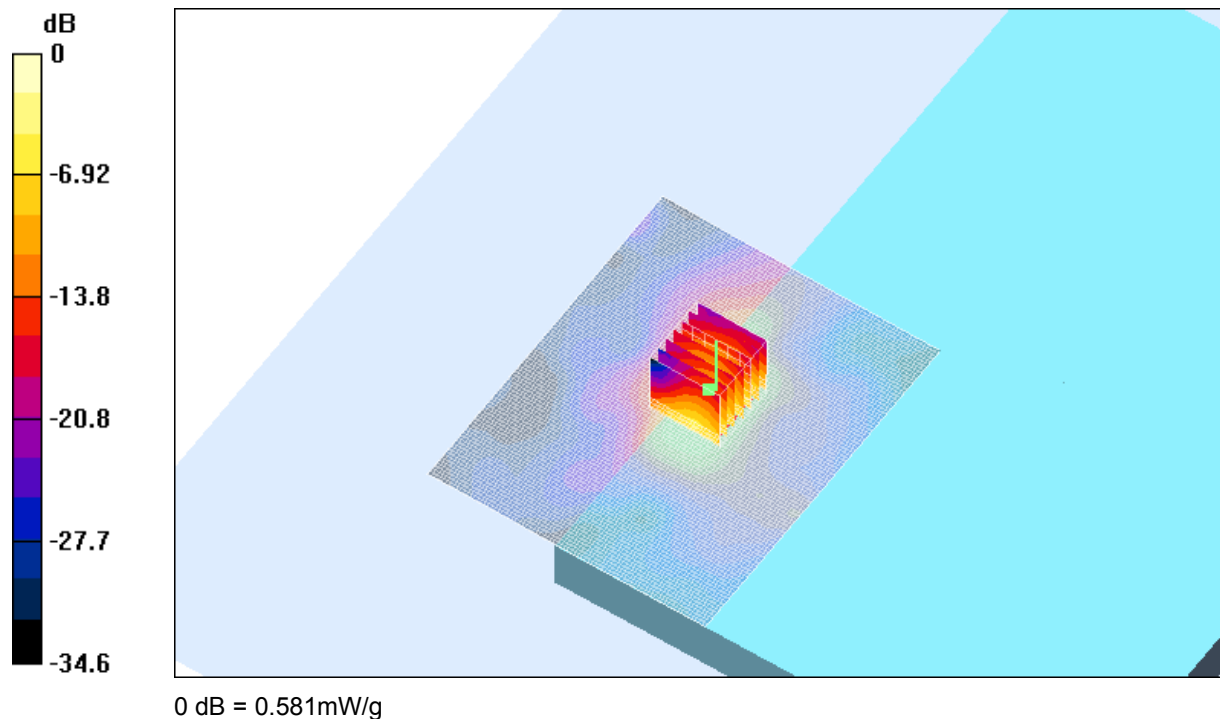
Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 10.4 V/m; Power Drift = 0.1 dB

Maximum value of SAR (measured) = 0.581 mW/g

Peak SAR (extrapolated) = 1.12 W/kg

SAR(1 g) = 0.512 mW/g; SAR(10 g) = 0.221 mW/g

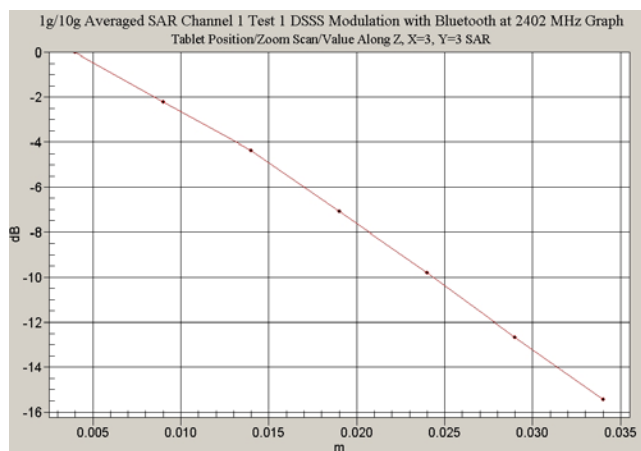


SAR MEASUREMENT PLOT 6

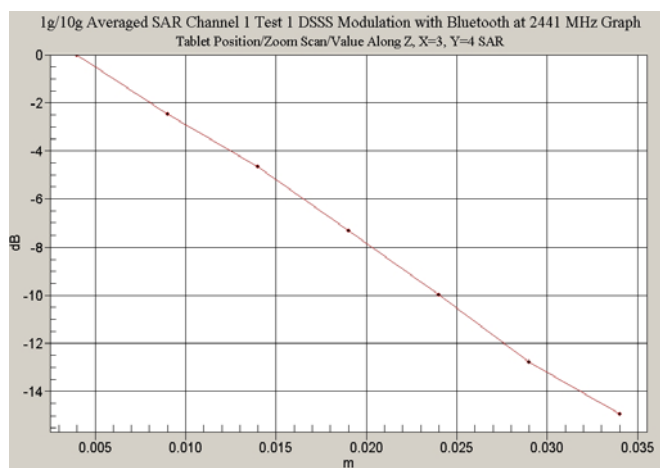
Ambient Temperature
Liquid Temperature
Humidity

20.1 Degrees Celsius
19.7 Degrees Celsius
47 %

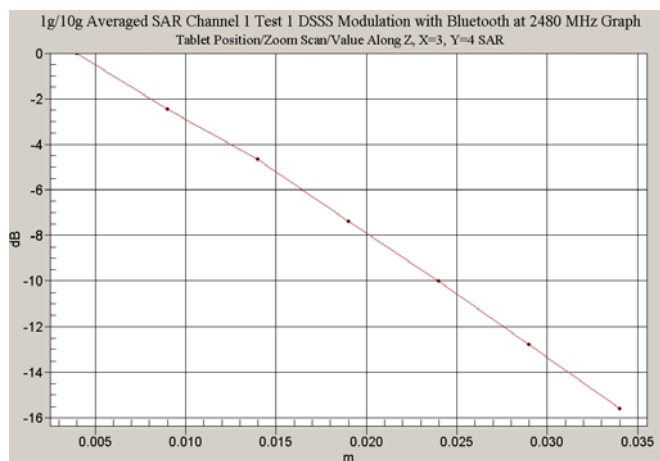
Z-axis scan for Plot 4



Z-axis scan for Plot 5



Z-axis scan for Plot 6



Test Date: 21 June 2004

File Name: [Arm Held DSSS 2.45 GHz With Bluetooth Batt 4400MAh Prescan 21-06-04.da4](#)

DUT: Fujitsu Tablet Ocampa 3 with WLAN and Bluetooth; Type: Calexico 11bg Module; Serial: No.2

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

* Medium parameters used: $\sigma = 1.93765$; mho/m, $\epsilon_r = 51.2148$; $\rho = 1000 \text{ kg/m}^3$

- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1380; ConvF(4.5, 4.5, 4.5)

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

Channel 06 Test/Area Scan (151x181x1): Measurement grid: dx=20mm, dy=20mm

Reference Value = 2.44 V/m; Power Drift = 1 dB

Maximum value of SAR (interpolated) = 0.202 mW/g

Channel 06 Test Bluetooth Frequency 2441 MHz/Zoom Scan (7x7x7)/Cube 0:

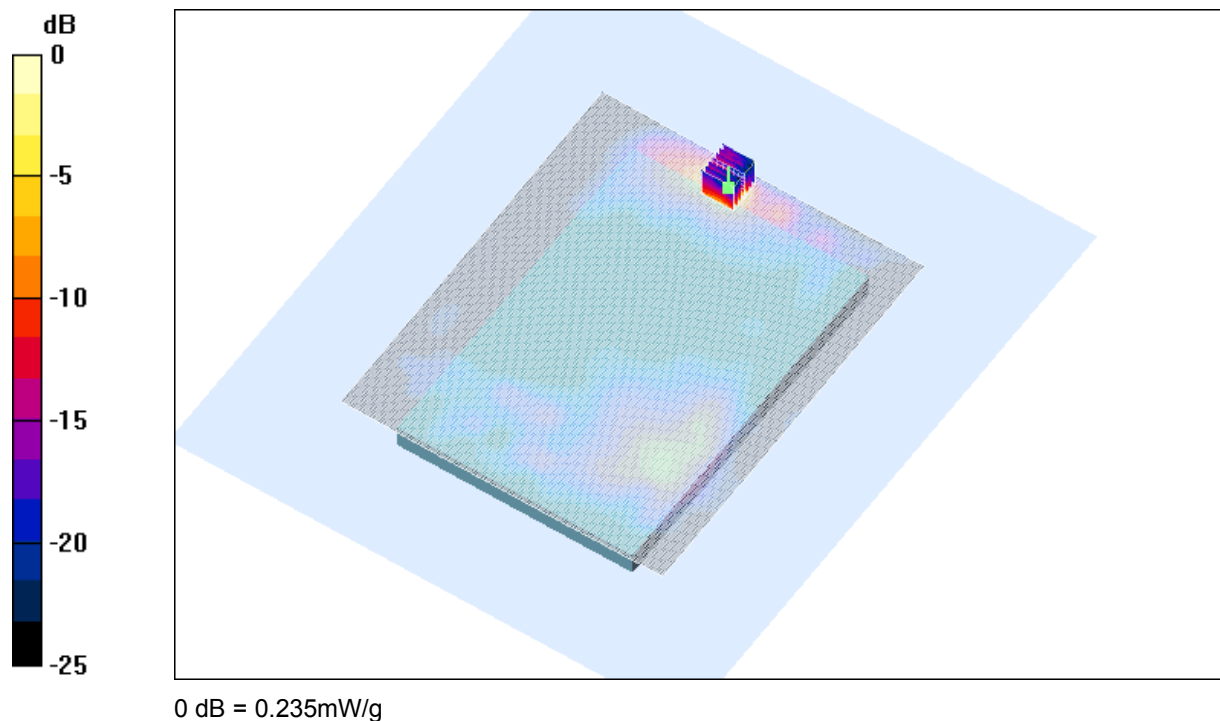
Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 2.44 V/m; Power Drift = 1 dB

Maximum value of SAR (measured) = 0.235 mW/g

Peak SAR (extrapolated) = 0.624 W/kg

SAR(1 g) = 0.212 mW/g; SAR(10 g) = 0.082 mW/g

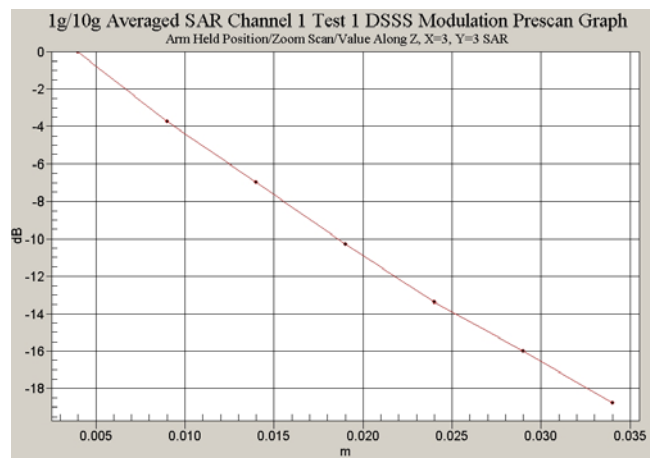


SAR MEASUREMENT PLOT 7

Ambient Temperature
Liquid Temperature
Humidity

20.1 Degrees Celsius
19.7 Degrees Celsius
47 %

Z-axis scan for Plot 7



Test Date: 18 June 2004

File Name: [Tablet OFDM 2.45 GHz No Bluetooth Batt 4400MAh 18-06-04.da4](#)

DUT: Fujitsu Tablet Ocampa 3 with WLAN and Bluetooth; Type: Calexico 11bg Module; Serial: No.2

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

* Medium parameters used: $\sigma = 1.99767$; mho/m, $\epsilon_r = 51.0933$; $\rho = 1000 \text{ kg/m}^3$

- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1380; ConvF(4.5, 4.5, 4.5)

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

Channel 06 Test/Area Scan (101x81x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 6.71 V/m; Power Drift = -0.3 dB

Maximum value of SAR (interpolated) = 0.092 mW/g

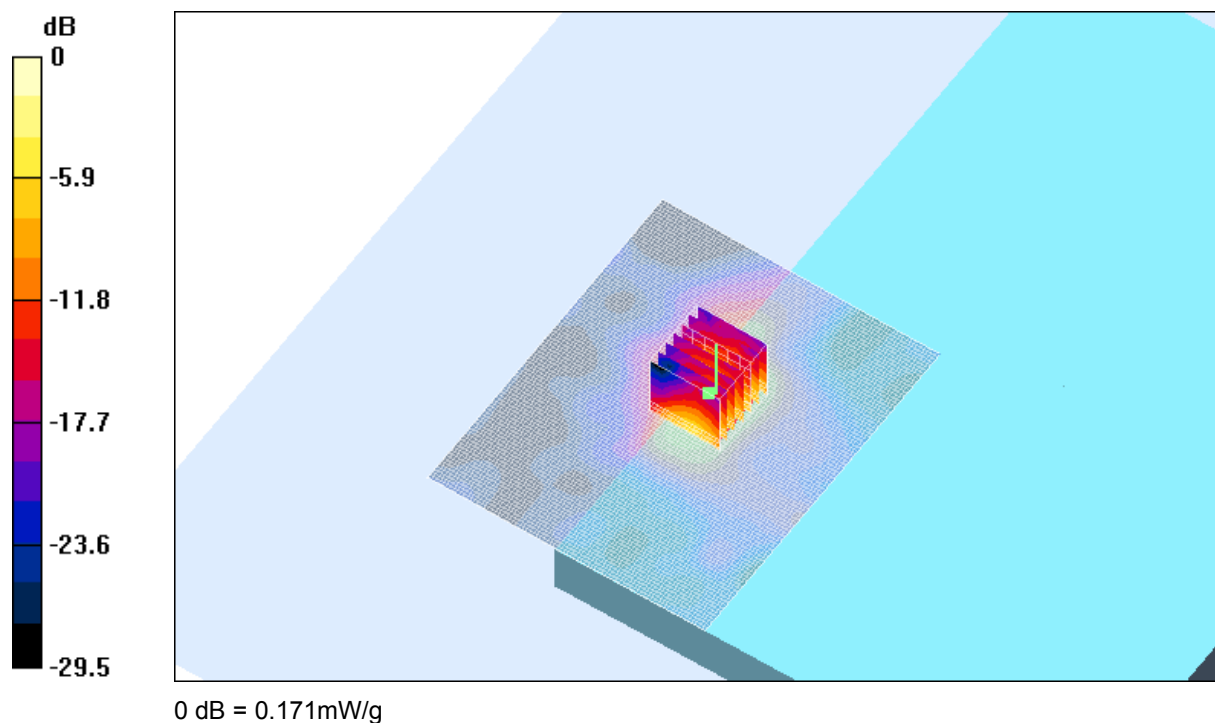
Channel 06 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 6.71 V/m; Power Drift = -0.3 dB

Maximum value of SAR (measured) = 0.171 mW/g

Peak SAR (extrapolated) = 0.314 W/kg

SAR(1 g) = 0.145 mW/g; SAR(10 g) = 0.064 mW/g



SAR MEASUREMENT PLOT 8

Ambient Temperature
Liquid Temperature
Humidity

20.0 Degrees Celsius
19.5 Degrees Celsius
43 %

Test Date: 18 June 2004

File Name: [Validation 2450 MHz \(DAE442 Probe1380\) 18-06-04.da4](#)

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

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

* Medium parameters used: $\sigma = 1.83808$; mho/m, $\epsilon_r = 38.0411$; $\rho = 1000$ kg/m³

- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1380; ConvF(4.8, 4.8, 4.8)

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

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

Reference Value = 96.7 V/m; Power Drift = -0.0 dB

Maximum value of SAR (interpolated) = 15.8 mW/g

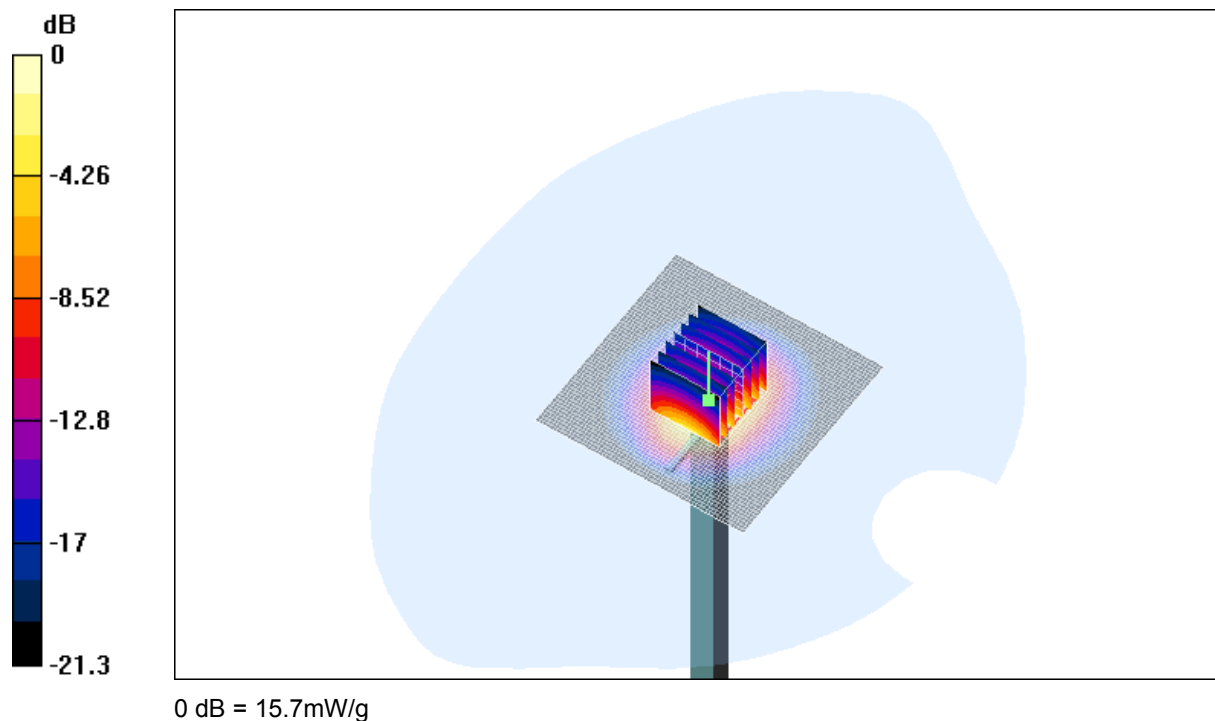
Channel 1 Test 2/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 96.7 V/m; Power Drift = -0.0 dB

Maximum value of SAR (measured) = 15.7 mW/g

Peak SAR (extrapolated) = 29 W/kg

SAR(1 g) = 13.9 mW/g; SAR(10 g) = 6.6 mW/g



SAR MEASUREMENT PLOT 9

Ambient Temperature
Liquid Temperature
Humidity

20.0 Degrees Celsius
19.5 Degrees Celsius
43 %

Test Date: 21 June 2004

File Name: [Validation 2450 MHz \(DAE442 Probe1380\) 21-06-04.da4](#)

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

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

* Medium parameters used: $\sigma = 1.84561$; mho/m, $\epsilon_r = 38.6424$; $\rho = 1000 \text{ kg/m}^3$

- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1380; ConvF(4.8, 4.8, 4.8)

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

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

Reference Value = 95.1 V/m; Power Drift = 0.0 dB

Maximum value of SAR (interpolated) = 14.6 mW/g

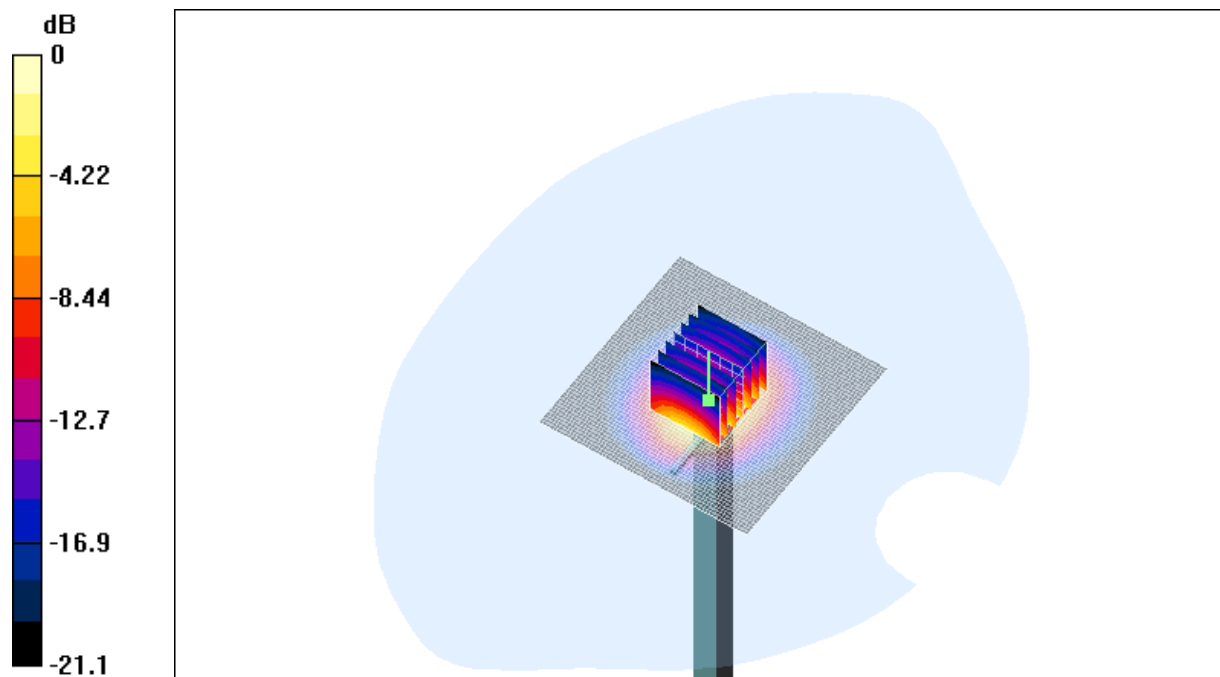
Channel 1 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 95.1 V/m; Power Drift = 0.0 dB

Maximum value of SAR (measured) = 14.5 mW/g

Peak SAR (extrapolated) = 25.8 W/kg

SAR(1 g) = 12.7 mW/g; SAR(10 g) = 6.06 mW/g



0 dB = 14.5mW/g

SAR MEASUREMENT PLOT 10

Ambient Temperature

20.1 Degrees Celsius

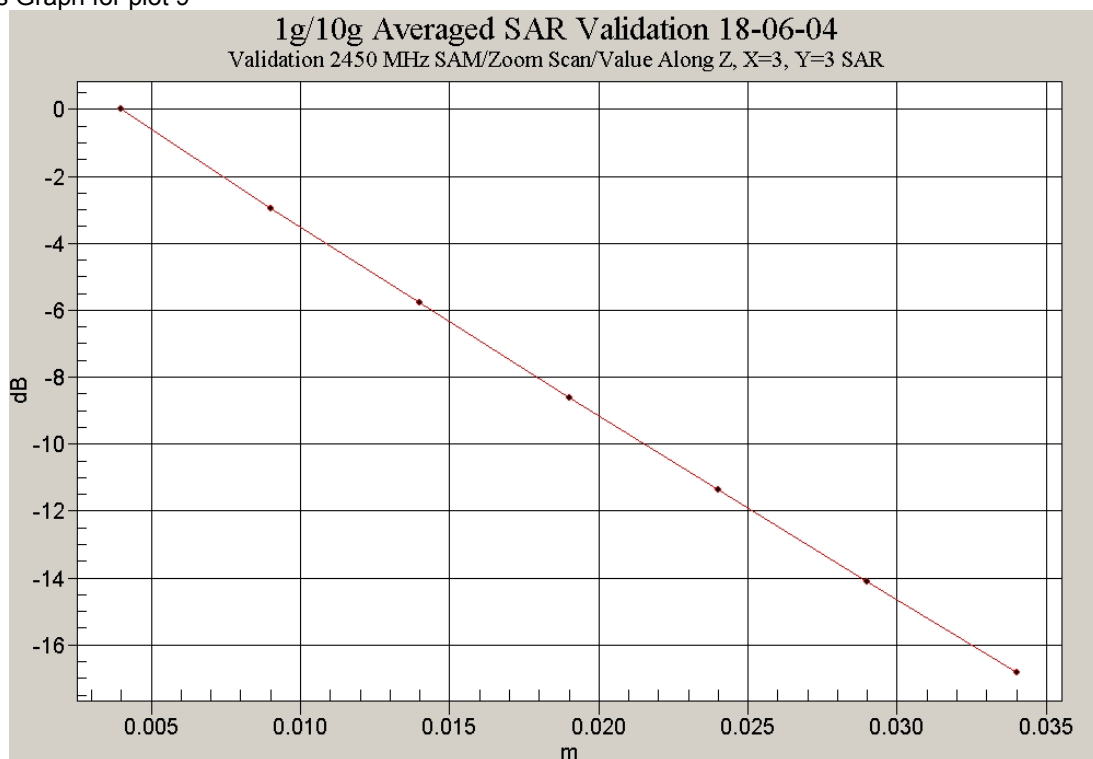
Liquid Temperature

19.7 Degrees Celsius

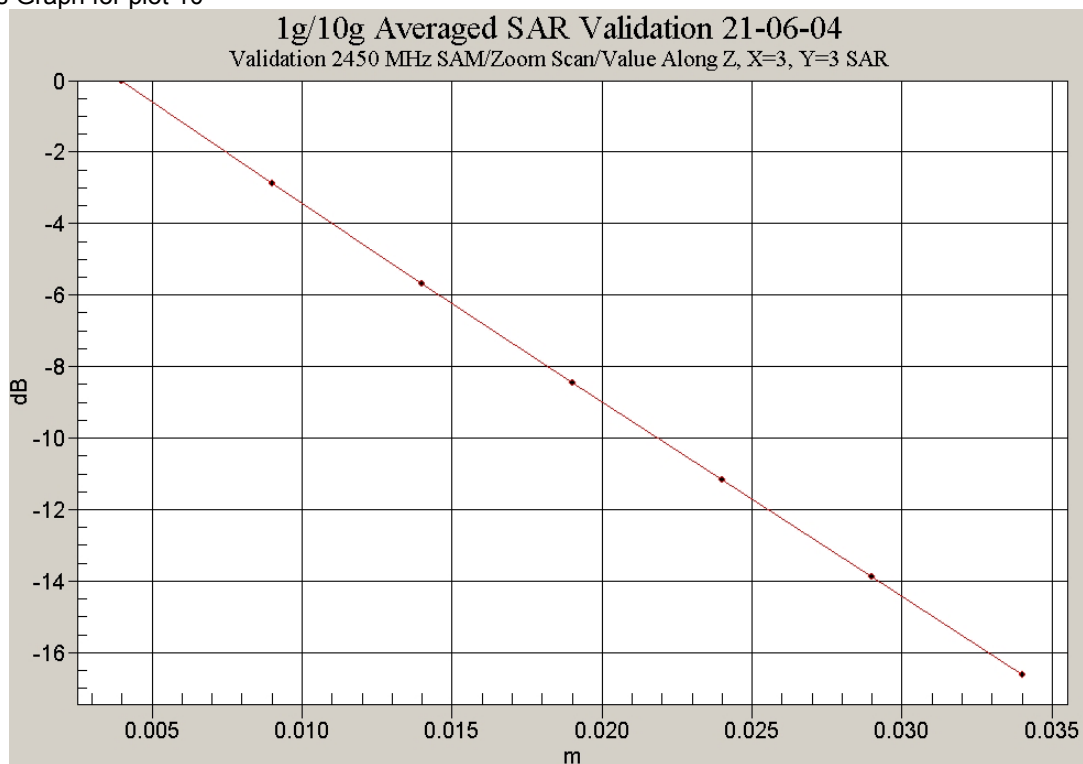
Humidity

47 %

Z-Axis Graph for plot 9



Z-axis Graph for plot 10



APPENDIX C

SAR TESTING EQUIPMENT CALIBRATION CERTIFICATE ATTACHMENTS

Calibration Certificate Attachments

1. 2450 MHz Dipole Calibration Sheet	6 Pages
2. 2450 MHz E-Field Probe Calibration Sheet	4 Pages
3. Dielectric Properties of Flat phantom PL550 Phantom	1 Page