

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	Lap Arm Held Position – Ant Aux – Pre-scan	CH#06
Plot 2	Lap Arm Held Position – Ant Aux	CH#01
Plot 3	Lap Arm Held Position – Ant Aux	CH#06
Plot 4	Lap Arm Held Position – Ant Aux	CH#11
Z-Axis Graphs	Z-Axis graphs for Plots 2 to 4	
Plot 5	Tablet Position – Ant Main	CH#01
Plot 6	Tablet Position – Ant Main	CH#06
Plot 7	Tablet Position – Ant Main	CH#11
Z-Axis Graphs	Z-Axis graphs for Plots 5 to 7	
Plot 8	Tablet Position – Ant Main – Pre-Scan	CH#06
Plot 9	Tablet Position – Ant Main	CH#11
Plot 10	Tablet Position – Ant Main	CH#11
Plot 11	Tablet Position – Ant Main	CH#11
Z-Axis Graphs	Z-Axis graphs for Plots 9 to 11	

Table 23: 2450 MHz OFDM Band SAR Measurement Plot Numbers

Plot 12	Tablet Position – Ant Main – OFDM	CH#06
Z-Axis Graphs	Z-Axis graphs for Plot 12	

Table 24: 2450MHz Validation Plot

Plot 13	Validation 2450MHz 22 nd Sept 2004
Plot 14	Validation 2450MHz 23 rd Sept 2004
Z-Axis Graphs	Z-Axis graphs for Plots 13 & 14

Test Date: 22 September 2004

File Name: [Arm Held DSSS 2.45 GHz Antenna Aux Bluetooth Off Prescan 22-09-04.da4](#)

DUT: Fujitsu Tablet Soriel with Calexico 11abg and Bluetooth; Type: 2915ABG; Serial: 344EE5244ABC51962012

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

* Medium parameters used: $\sigma = 1.96791$; mho/m, $\epsilon_r = 50.5631$; $\rho = 1000 \text{ kg/m}^3$

- Electronics: DAE3 Sn359; Probe: ET3DV6 - SN1380; ConvF(4.16, 4.16, 4.16)

- 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 = 12.2 V/m; Power Drift = -0.5 dB

Maximum value of SAR (interpolated) = 0.303 mW/g

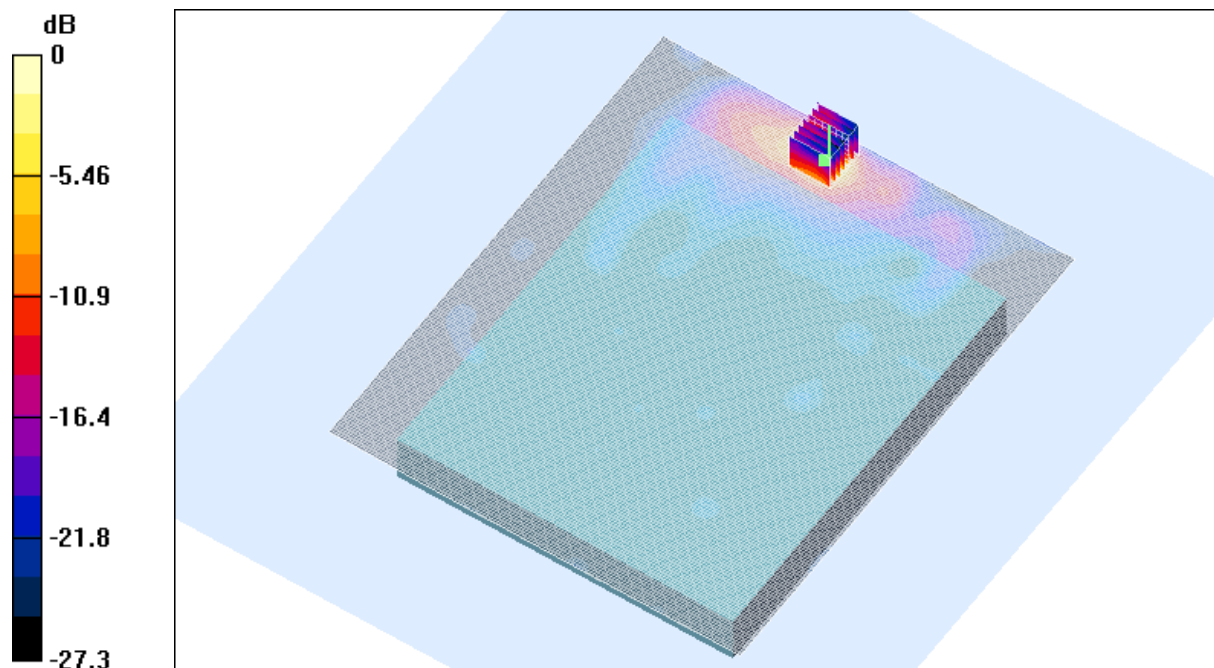
Channel 06 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 12.2 V/m; Power Drift = -0.5 dB

Maximum value of SAR (measured) = 0.412 mW/g

Peak SAR (extrapolated) = 1.01 W/kg

SAR(1 g) = 0.349 mW/g; SAR(10 g) = 0.137 mW/g



0 dB = 0.412mW/g

SAR MEASUREMENT PLOT 1

Ambient Temperature
Liquid Temperature
Humidity

21.1 Degrees Celsius
20.5 Degrees Celsius
46.0 %

Test Date: 22 September 2004

File Name: [Arm Held DSSS 2.45 GHz Antenna Aux Bluetooth Off 22-09-04.da4](#)

DUT: Fujitsu Tablet Soriel with Calexico 11abg and Bluetooth; Type: 2915ABG; Serial: 344EE5244ABC51962012

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

* Medium parameters used: $\sigma = 1.93144$; mho/m, $\epsilon_r = 50.6809$; $\rho = 1000 \text{ kg/m}^3$

- Electronics: DAE3 Sn359; Probe: ET3DV6 - SN1380; ConvF(4.16, 4.16, 4.16)

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

Channel 01 Test/Area Scan (81x61x1): Measurement grid: dx=20mm, dy=20mm

Reference Value = 11.7 V/m; Power Drift = 0.1 dB

Maximum value of SAR (interpolated) = 0.294 mW/g

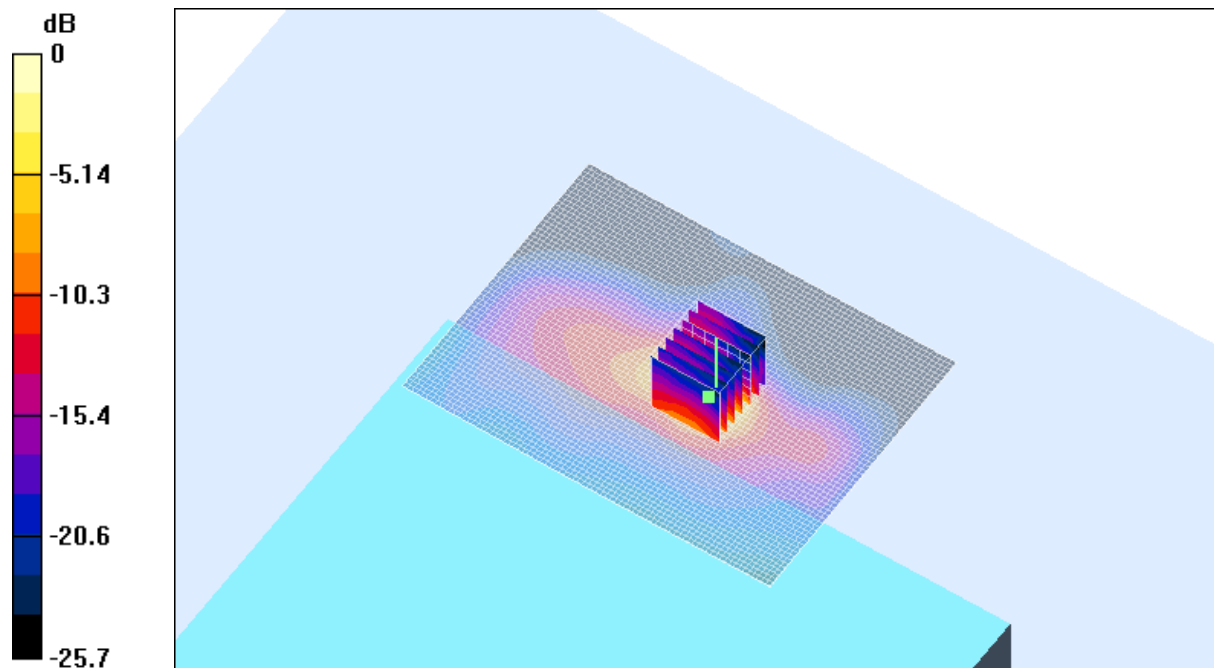
Channel 01 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 11.7 V/m; Power Drift = 0.1 dB

Maximum value of SAR (measured) = 0.381 mW/g

Peak SAR (extrapolated) = 0.927 W/kg

SAR(1 g) = 0.320 mW/g; SAR(10 g) = 0.125 mW/g



0 dB = 0.381mW/g

SAR MEASUREMENT PLOT 2

Ambient Temperature
Liquid Temperature
Humidity

21.1 Degrees Celsius
20.5 Degrees Celsius
46.0 %

Test Date: 22 September 2004

File Name: [Arm Held DSSS 2.45 GHz Antenna Aux Bluetooth Off 22-09-04.da4](#)

DUT: Fujitsu Tablet Soriel with Calexico 11abg and Bluetooth; Type: 2915ABG; Serial: 344EE5244ABC51962012

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

* Medium parameters used: $\sigma = 1.96791$; mho/m, $\epsilon_r = 50.5631$; $\rho = 1000 \text{ kg/m}^3$

- Electronics: DAE3 Sn359; Probe: ET3DV6 - SN1380; ConvF(4.16, 4.16, 4.16)

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

Channel 06 Test/Area Scan (81x61x1): Measurement grid: dx=20mm, dy=20mm

Reference Value = 11.8 V/m; Power Drift = 0.006 dB

Maximum value of SAR (interpolated) = 0.323 mW/g

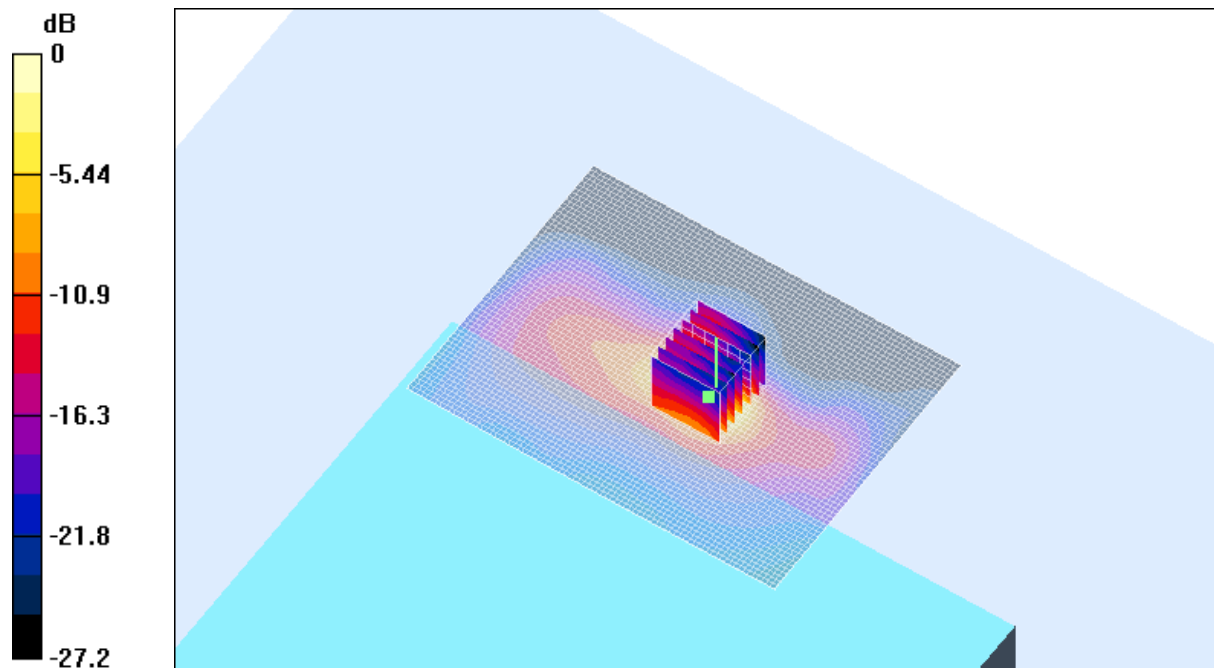
Channel 06 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 11.8 V/m; Power Drift = 0.006 dB

Maximum value of SAR (measured) = 0.432 mW/g

Peak SAR (extrapolated) = 1.04 W/kg

SAR(1 g) = 0.358 mW/g; SAR(10 g) = 0.141 mW/g



0 dB = 0.432mW/g

SAR MEASUREMENT PLOT 3

Ambient Temperature
Liquid Temperature
Humidity

21.1 Degrees Celsius
20.5 Degrees Celsius
46.0 %

Test Date: 22 September 2004

File Name: [Arm Held DSSS 2.45 GHz Antenna Aux Bluetooth Off 22-09-04.da4](#)

DUT: Fujitsu Tablet Soriel with Calexico 11abg and Bluetooth; Type: 2915ABG; Serial: 344EE5244ABC51962012

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

* Medium parameters used: $\sigma = 2.00491$; mho/m, $\epsilon_r = 50.4091$; $\rho = 1000 \text{ kg/m}^3$

- Electronics: DAE3 Sn359; Probe: ET3DV6 - SN1380; ConvF(4.16, 4.16, 4.16)

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

Channel 11 Test/Area Scan (81x61x1): Measurement grid: dx=20mm, dy=20mm

Reference Value = 9.94 V/m; Power Drift = 0.2 dB

Maximum value of SAR (interpolated) = 0.319 mW/g

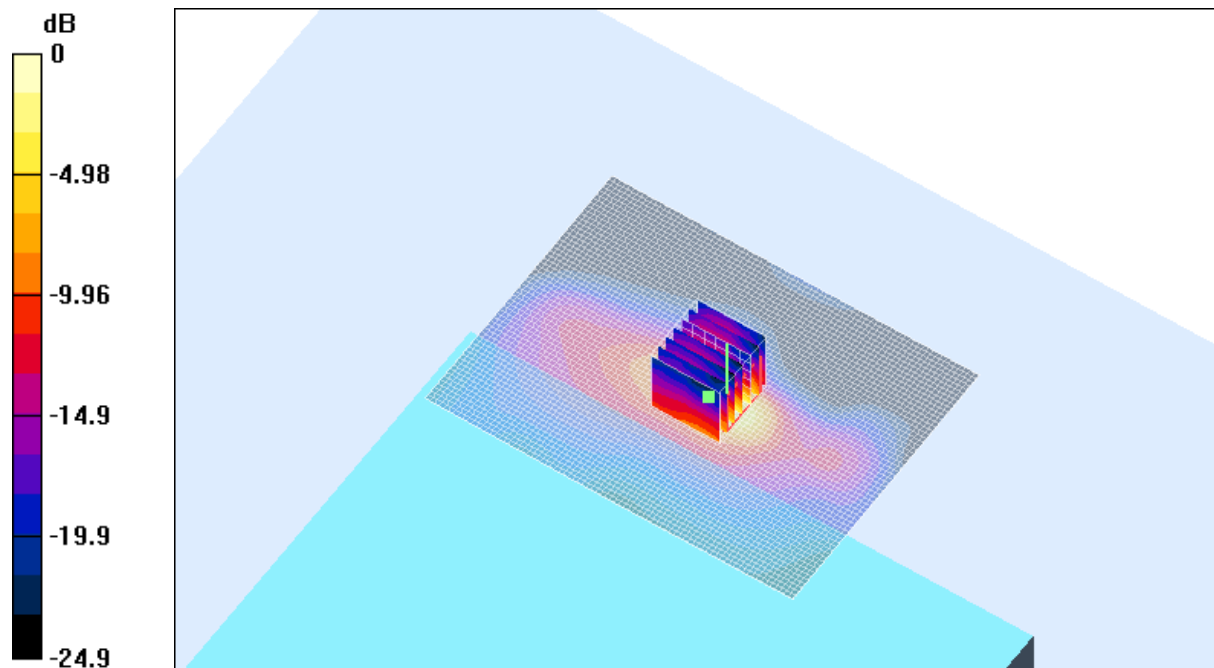
Channel 11 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 9.94 V/m; Power Drift = 0.2 dB

Maximum value of SAR (measured) = 0.427 mW/g

Peak SAR (extrapolated) = 1.05 W/kg

SAR(1 g) = 0.357 mW/g; SAR(10 g) = 0.140 mW/g



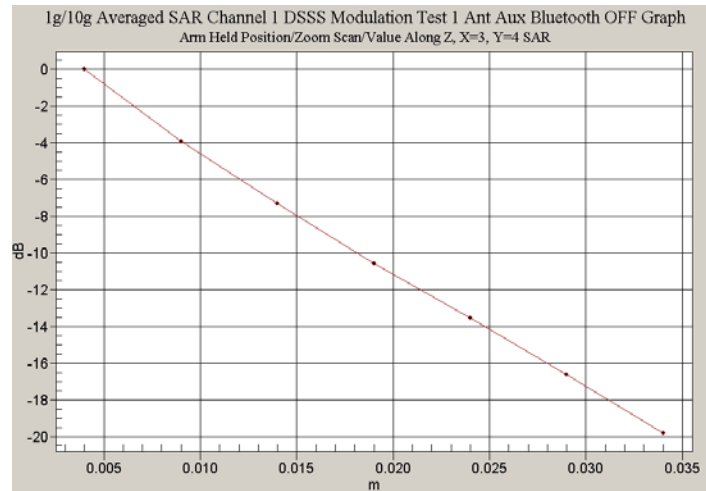
0 dB = 0.427mW/g

SAR MEASUREMENT PLOT 4

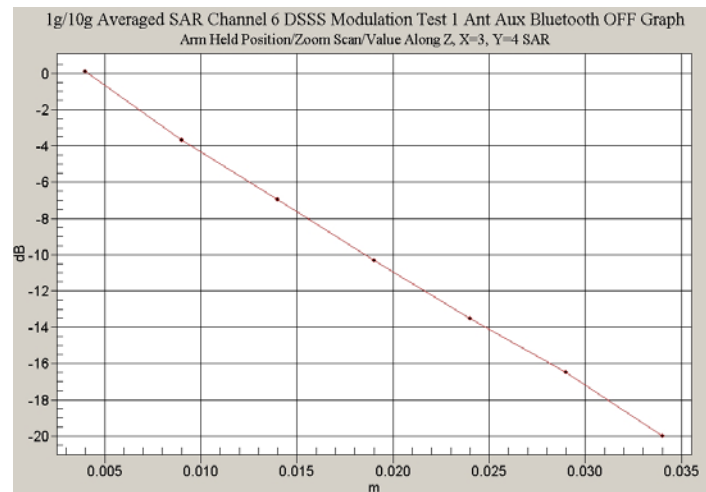
Ambient Temperature
Liquid Temperature
Humidity

21.1 Degrees Celsius
20.5 Degrees Celsius
46.0 %

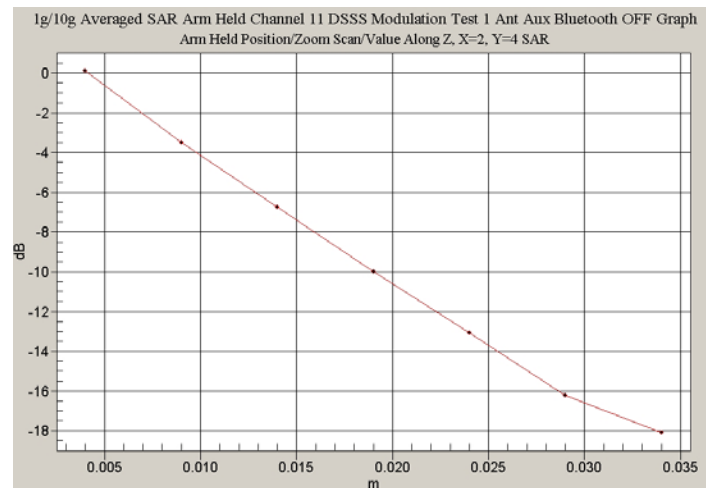
Z-Axis Graph for Plot 2



Z-Axis Graph for Plot 3



Z-Axis Graph for Plot 4



Test Date: 22 September 2004

File Name: [Tablet DSSS 2.45 GHz Ant Main Bluetooth Off 22-09-04.da4](#)

DUT: Fujitsu Tablet Soriel with Calexico 11abg and Bluetooth; Type: 2915ABG; Serial: 344EE5244ABC51962012

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

* Medium parameters used: $\sigma = 1.93144$; mho/m, $\epsilon_r = 50.6809$; $\rho = 1000 \text{ kg/m}^3$

- Electronics: DAE3 Sn359; Probe: ET3DV6 - SN1380; ConvF(4.16, 4.16, 4.16)

- 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 = 12 V/m; Power Drift = -0.0 dB

Maximum value of SAR (interpolated) = 0.288 mW/g

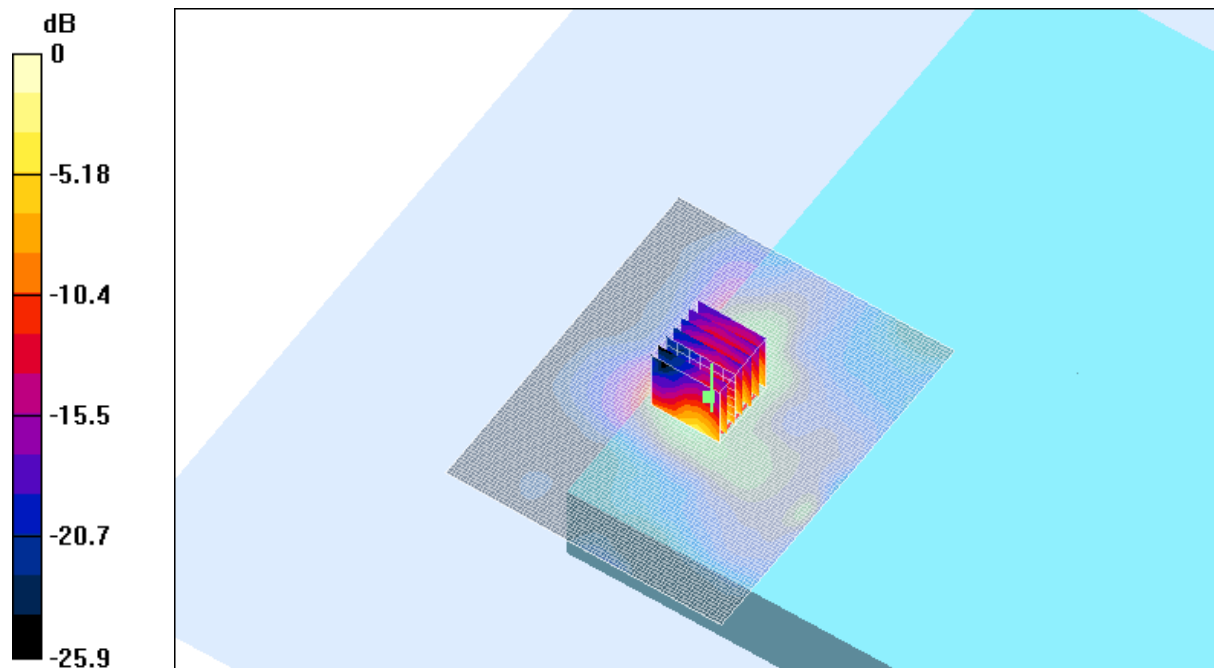
Channel 01 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 12 V/m; Power Drift = -0.0 dB

Maximum value of SAR (measured) = 0.272 mW/g

Peak SAR (extrapolated) = 0.700 W/kg

SAR(1 g) = 0.246 mW/g; SAR(10 g) = 0.109 mW/g



0 dB = 0.272mW/g

SAR MEASUREMENT PLOT 5

Ambient Temperature
Liquid Temperature
Humidity

21.1 Degrees Celsius
20.5 Degrees Celsius
46.0 %

Test Date: 22 September 2004

File Name: [Tablet DSSS 2.45 GHz Ant Main Bluetooth Off 22-09-04.da4](#)

DUT: Fujitsu Tablet Soriel with Calexico 11abg and Bluetooth; Type: 2915ABG; Serial: 344EE5244ABC51962012

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

* Medium parameters used: $\sigma = 1.96791$; mho/m, $\epsilon_r = 50.5631$; $\rho = 1000 \text{ kg/m}^3$

- Electronics: DAE3 Sn359; Probe: ET3DV6 - SN1380; ConvF(4.16, 4.16, 4.16)

- 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 = 13.1 V/m; Power Drift = 0.3 dB

Maximum value of SAR (interpolated) = 0.384 mW/g

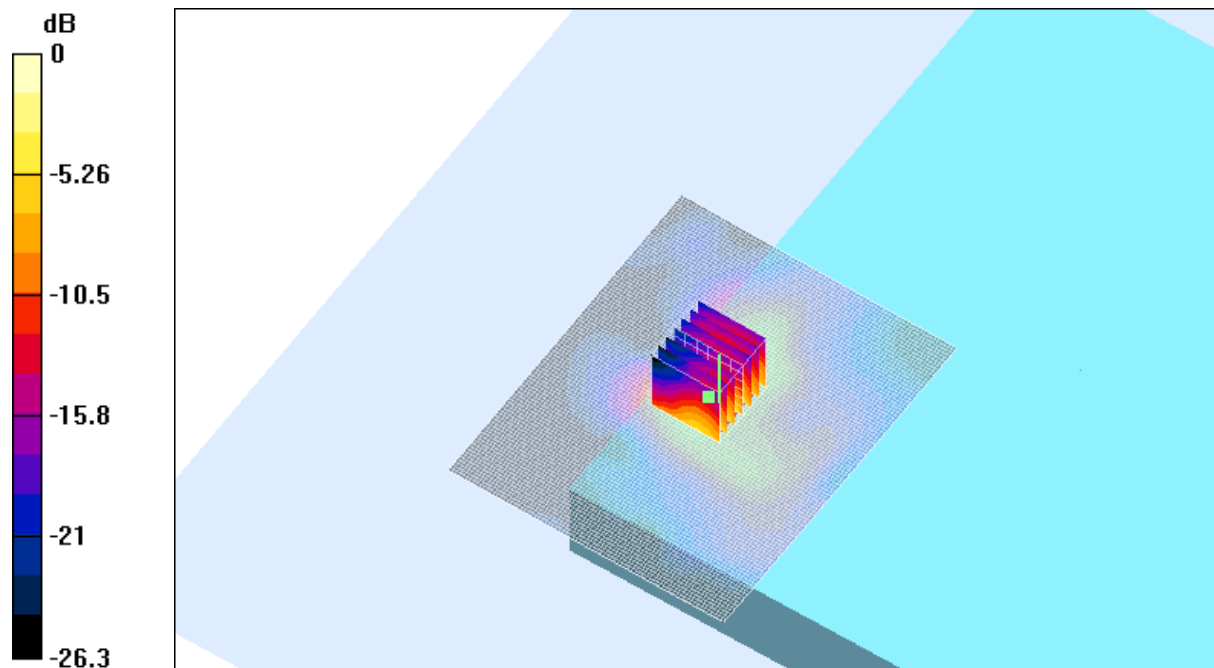
Channel 06 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 13.1 V/m; Power Drift = 0.3 dB

Maximum value of SAR (measured) = 0.367 mW/g

Peak SAR (extrapolated) = 0.931 W/kg

SAR(1 g) = 0.330 mW/g; SAR(10 g) = 0.148 mW/g



0 dB = 0.367mW/g

SAR MEASUREMENT PLOT 6

Ambient Temperature
Liquid Temperature
Humidity

21.1 Degrees Celsius
20.5 Degrees Celsius
46.0 %

Test Date: 22 September 2004

File Name: [Tablet DSSS 2.45 GHz Ant Main Bluetooth Off 22-09-04.da4](#)

DUT: Fujitsu Tablet Soriel with Calexico 11abg and Bluetooth; Type: 2915ABG; Serial: 344EE5244ABC51962012

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

* Medium parameters used: $\sigma = 2.00491$; mho/m, $\epsilon_r = 50.4091$; $\rho = 1000 \text{ kg/m}^3$

- Electronics: DAE3 Sn359; Probe: ET3DV6 - SN1380; ConvF(4.16, 4.16, 4.16)

- 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 = 13.7 V/m; Power Drift = -0.0 dB

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

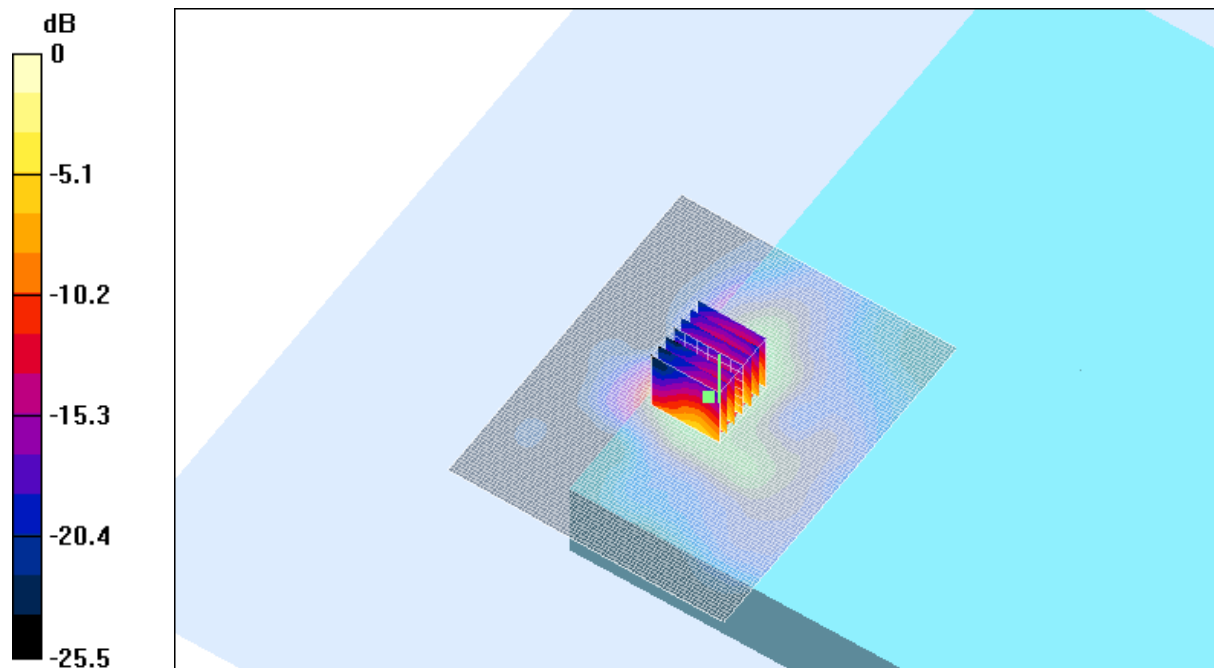
Channel 11 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 13.7 V/m; Power Drift = -0.0 dB

Maximum value of SAR (measured) = 0.394 mW/g

Peak SAR (extrapolated) = 1 W/kg

SAR(1 g) = 0.354 mW/g; SAR(10 g) = 0.157 mW/g



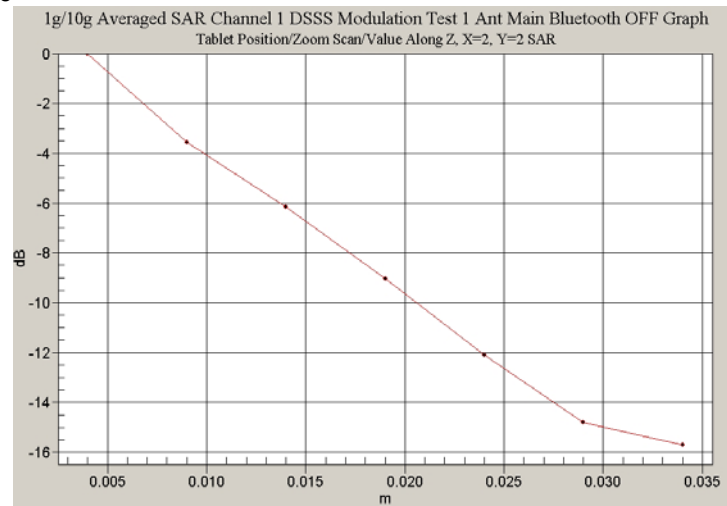
0 dB = 0.394mW/g

SAR MEASUREMENT PLOT 7

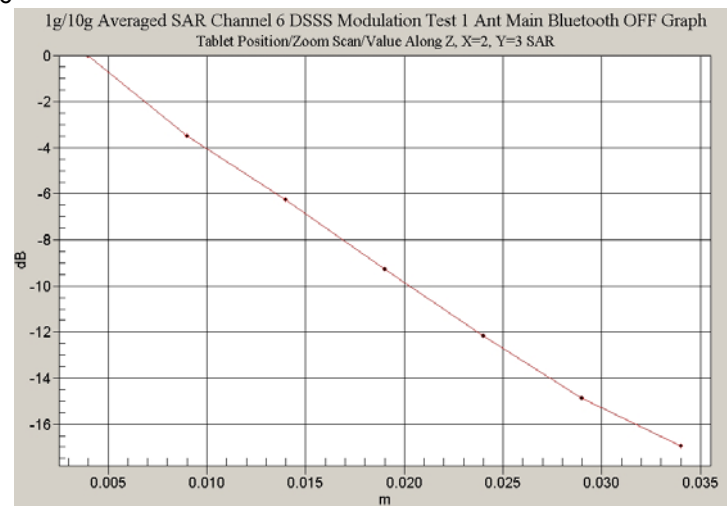
Ambient Temperature
Liquid Temperature
Humidity

21.1 Degrees Celsius
20.5 Degrees Celsius
46.0 %

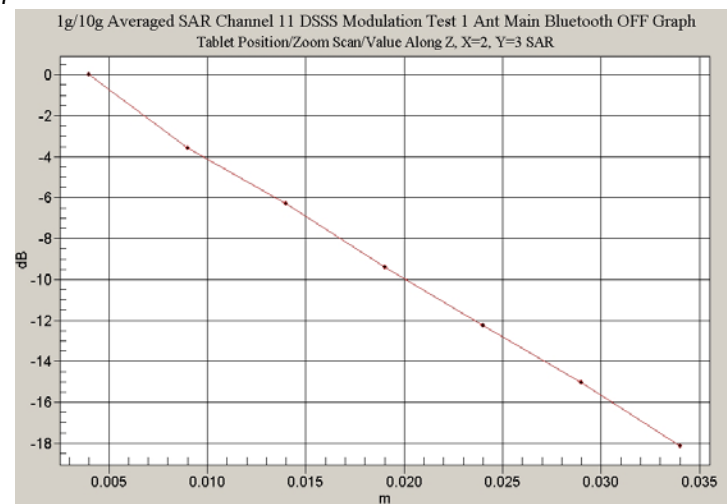
Z-Axis Graph for Plot 5



Z-Axis Graph for Plot 6



Z-Axis Graph for Plot 7



Test Date: 23 September 2004

File Name: [Tablet DSSS 2.45 GHz Antenna Main Bluetooth On Prescan 23-09-04.da4](#)

DUT: Fujitsu Tablet Soriel with Calexico 11abg and Bluetooth; Type: 2915ABG; Serial: 344EE5244ABC51962012

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

* Medium parameters used: $\sigma = 1.97507$; mho/m, $\epsilon_r = 51.295$; $\rho = 1000 \text{ kg/m}^3$

- Electronics: DAE3 Sn359; Probe: ET3DV6 - SN1380; ConvF(4.16, 4.16, 4.16)

- 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 = 13.3 V/m; Power Drift = -0.2 dB

Maximum value of SAR (interpolated) = 0.229 mW/g

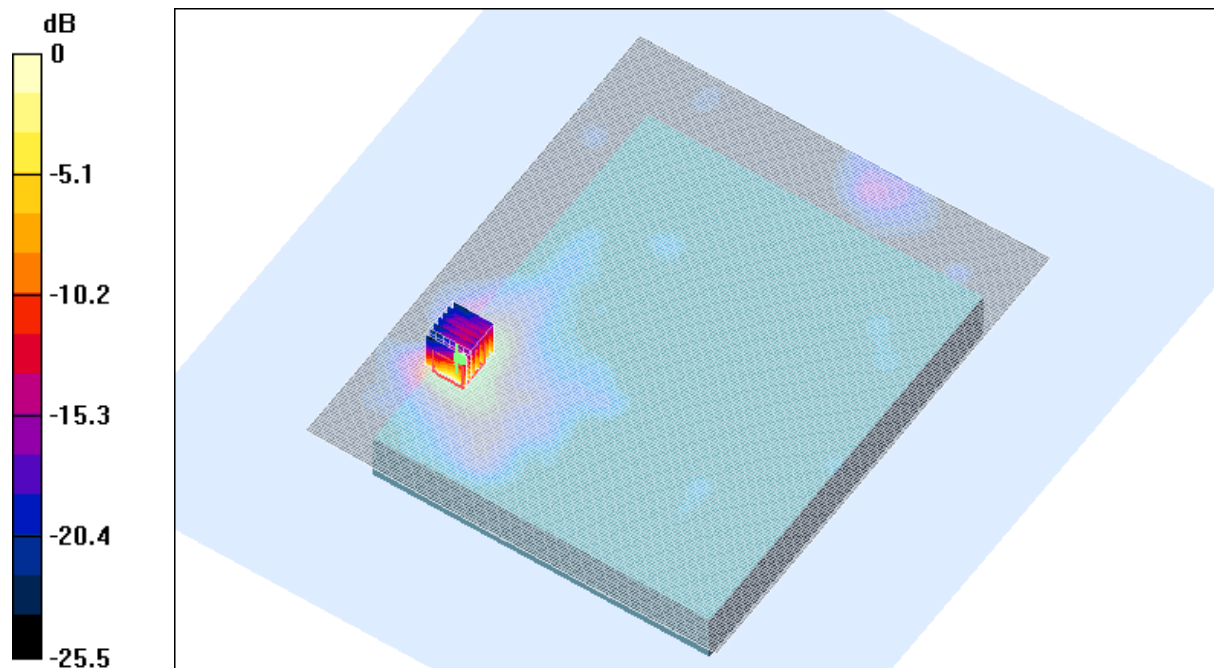
Channel 06 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 13.3 V/m; Power Drift = -0.2 dB

Maximum value of SAR (measured) = 0.334 mW/g

Peak SAR (extrapolated) = 0.799 W/kg

SAR(1 g) = 0.288 mW/g; SAR(10 g) = 0.129 mW/g



0 dB = 0.334mW/g

SAR MEASUREMENT PLOT 8

Ambient Temperature
Liquid Temperature
Humidity

20.5 Degrees Celsius
19.8 Degrees Celsius
49.0 %