

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 A – Pre-scan	CH#06
Plot 2	Lap Arm Held Position – Ant B – Pre-scan	CH#06
Plot 3	Lap Arm Held Position – Ant A	CH#01
Plot 4	Lap Arm Held Position – Ant A	CH#06
Plot 5	Lap Arm Held Position – Ant A	CH#11
Z-Axis Graphs	Z-Axis graphs for Plots 3 to 5	
Plot 6	Lap Arm Held Position – Ant B	CH#01
Plot 7	Lap Arm Held Position – Ant B	CH#06
Plot 8	Lap Arm Held Position – Ant B	CH#11
Z-Axis Graphs	Z-Axis graphs for Plots 6 to 8	
Plot 9	Tablet Position – Ant B – Pre-scan	CH#06
Plot 10	Edge On Position – Ant A	CH#1
Plot 11	Edge On Position – Ant A	CH#6
Plot 12	Edge On Position – Ant A	CH#11
Z-Axis Graphs	Z-Axis graphs for Plots 10 - 12	
Plot 13	Edge On Position – Ant B	CH#1
Plot 14	Edge On Position – Ant B	CH#6
Plot 15	Edge On Position – Ant B	CH#11
Z-Axis Graphs	Z-Axis graphs for Plots 13 - 16	
	WLAN with Bluetooth On	
Plot 16	Lap Arm Held Position With Blue tooth Ant A BTCH#40	CH#11
Plot 17	Lap Arm Held Position With Blue tooth Ant B BTCH#40	CH#1
Plot 18	Edge On Position With Blue tooth Ant A BTCH#79	CH#11
Plot 19	Edge On Position With Blue tooth Ant B BTCH#79	CH#1
Z-axis graphs	Z-Axis graphs for Plots 16 to 17	

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Z-axis graphs

Z-Axis graphs for Plots 18 to 19

Table 23: 2450 MHz OFDM Band SAR Measurement Plot Numbers

Plot 20	Lap Arm Held Position – Ant A	CH#06
Plot 21	Lap Arm Held Position – Ant B	CH#06
Z-Axis Graphs	Z-Axis graphs for Plot 20 to 21	

Table 24: 2450MHz Validation Plot

Plot 22	Validation 2450MHz 20 th March 2006
Plot 23	Validation 2450MHz 21 st March 2006
Z-Axis Graphs	Z-Axis graphs for Plots 22 & 23

Test Date: 21 March 2006

File Name: [Arm Held DSSS 2450 MHz Versalius Antenna A Bluetooth On Prescan 21-03-06.da4](#)

DUT: Fujitsu Tablet Versalius with Atheros 11abg and Bluetooth; Type: XB62; Serial: MAC: 0011F5-C22B36

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

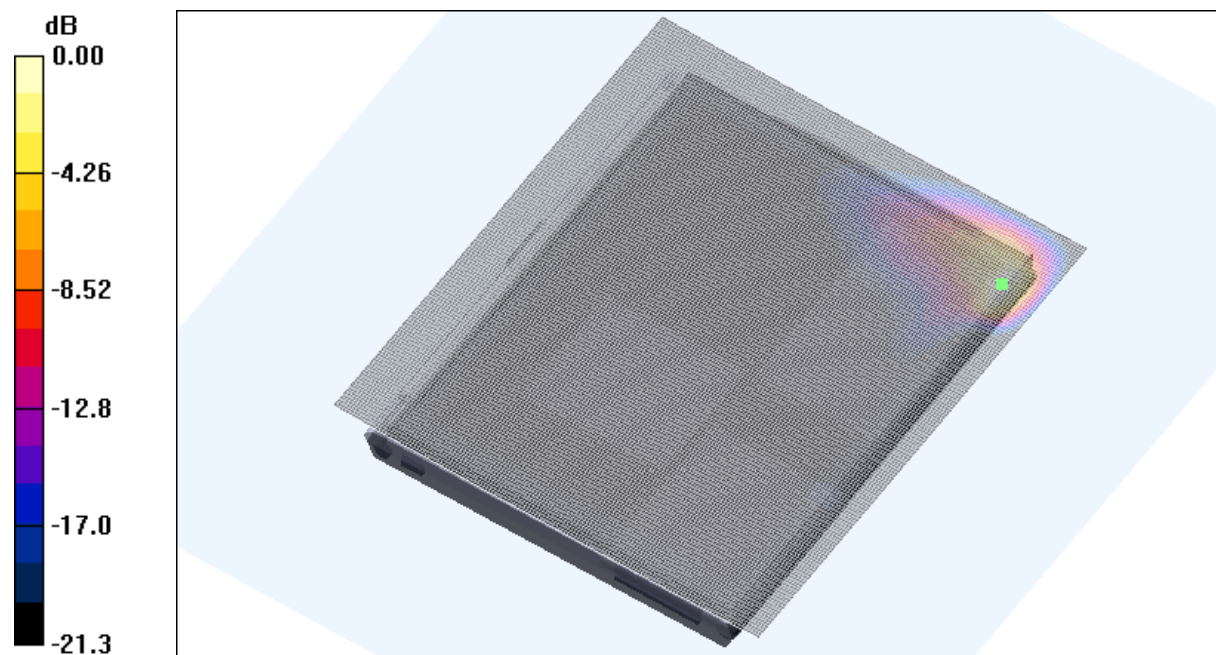
* Medium parameters used: $\sigma = 1.90962$ mho/m, $\epsilon_r = 51.7416$; $\rho = 1000$ kg/m³

- 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 (141x161x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 1.52 mW/g



Ambient Temperature

20.5 Degrees Celsius

Liquid Temperature

20.0 Degrees Celsius

Humidity

54.0 %

Test Date: 21 March 2006

File Name: [Arm Held DSSS 2450 MHz Versalius Antenna B Bluetooth Off Prescan 21-03-06.da4](#)

DUT: Fujitsu Tablet Versalius with Atheros 11abg and Bluetooth; Type: XB62; Serial: MAC: 0011F5-C22B36

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

* Medium parameters used: $\sigma = 1.90962$ mho/m, $\epsilon_r = 51.7416$; $\rho = 1000$ kg/m³

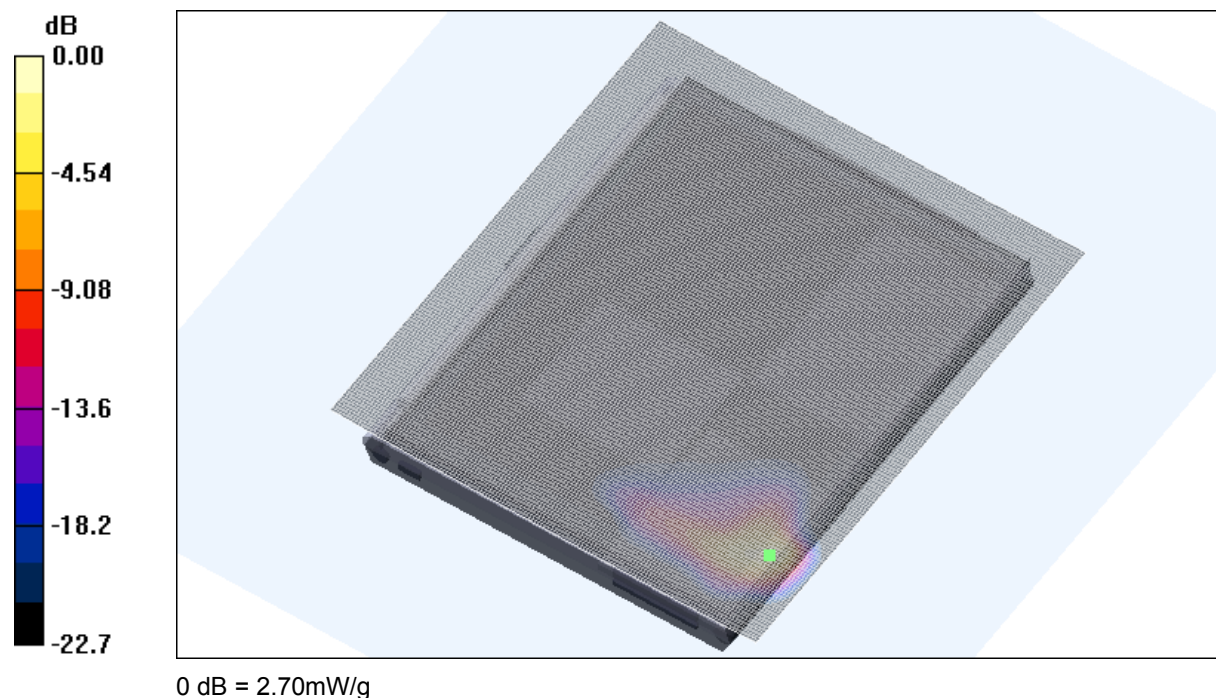
- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1377; ConvF(3.99, 3.99, 3.99)

- 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) = 1.72 mW/g



SAR MEASUREMENT PLOT 2

Ambient Temperature
Liquid Temperature
Humidity

20.5 Degrees Celsius
20.0 Degrees Celsius
54.0 %

Test Date: 21 March 2006

File Name: [Arm Held DSSS 2450 MHz Versalium Antenna A Bluetooth Off 21-03-06.da4](#)

DUT: Fujitsu Tablet Versalium with Atheros 11abg and Bluetooth; Type: XB62; Serial: MAC: 0011F5-C22B36

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

* Medium parameters used: $\sigma = 1.86728$ mho/m, $\epsilon_r = 51.8863$; $\rho = 1000$ kg/m³

- 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) = 1.15 mW/g

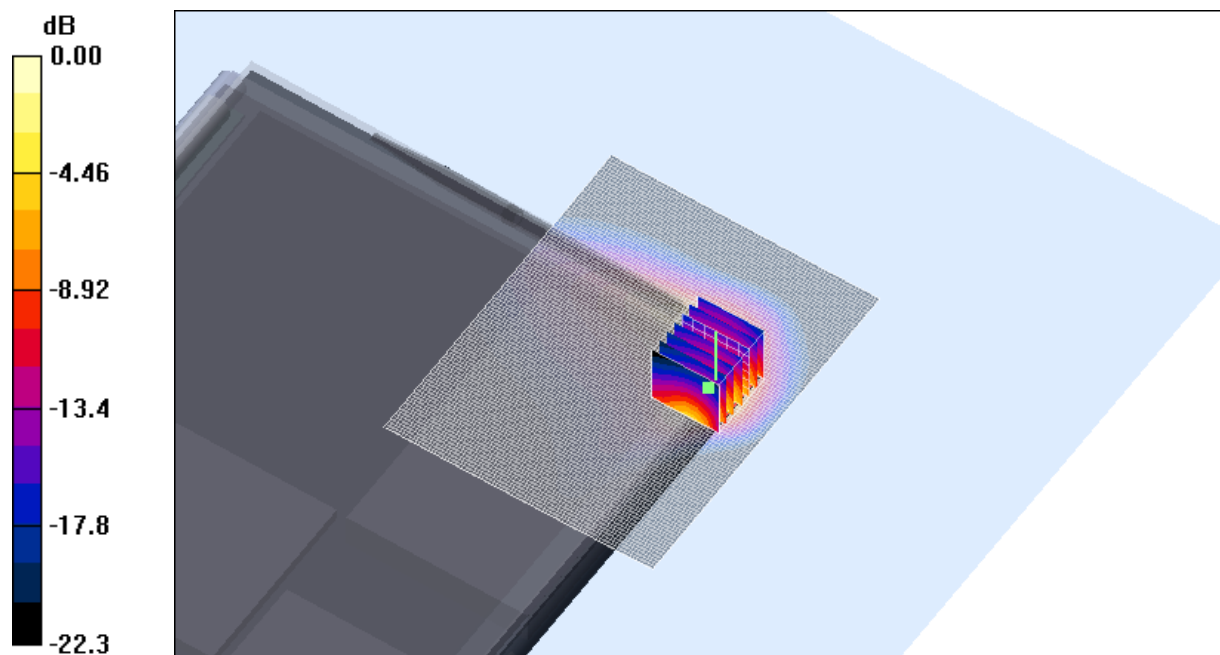
Channel 1 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 18.6 V/m; Power Drift = -0.174 dB

Peak SAR (extrapolated) = 1.93 W/kg

SAR(1 g) = 0.937 mW/g; SAR(10 g) = 0.426 mW/g

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



0 dB = 1.07mW/g

SAR MEASUREMENT PLOT 3

Ambient Temperature
Liquid Temperature
Humidity

20.5 Degrees Celsius
20.0 Degrees Celsius
54.0 %

Test Date: 21 March 2006

File Name: [Arm Held DSSS 2450 MHz Versalius Antenna A Bluetooth Off 21-03-06.da4](#)

DUT: Fujitsu Tablet Versalius with Atheros 11abg and Bluetooth; Type: XB62; Serial: MAC: 0011F5-C22B36

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

* Medium parameters used: $\sigma = 1.90962$ mho/m, $\epsilon_r = 51.7416$; $\rho = 1000$ kg/m³

- 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) = 1.45 mW/g

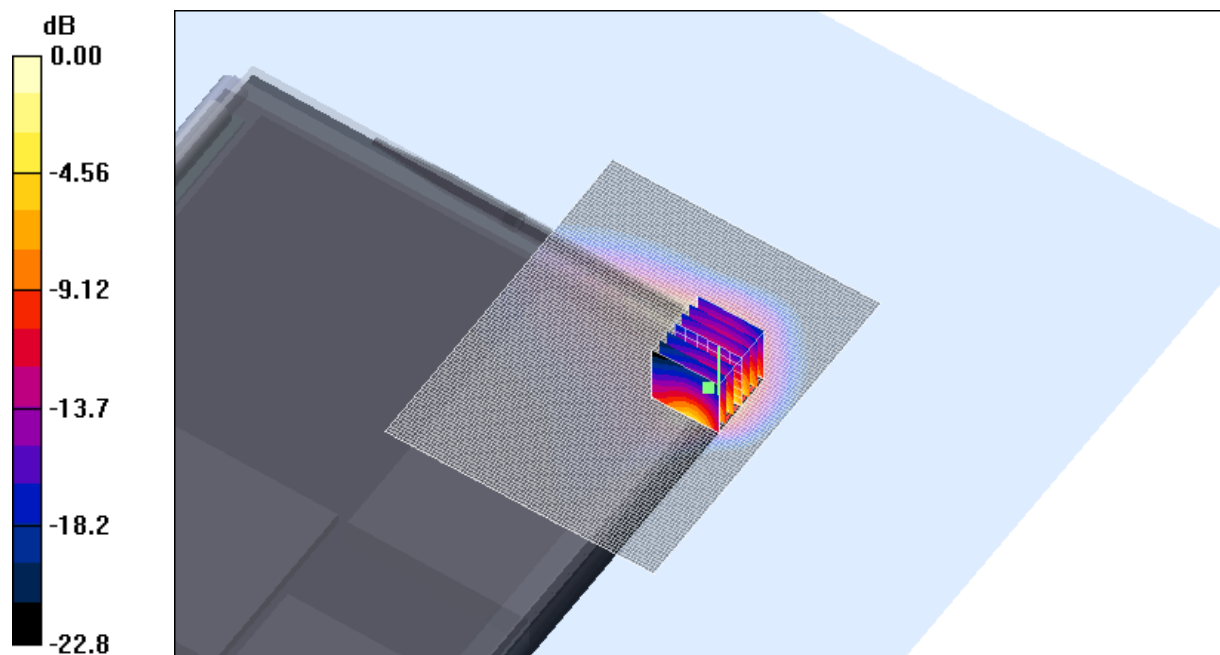
Channel 6 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 20.8 V/m; Power Drift = -0.180 dB

Peak SAR (extrapolated) = 2.46 W/kg

SAR(1 g) = 1.15 mW/g; SAR(10 g) = 0.519 mW/g

Maximum value of SAR (measured) = 1.28 mW/g



0 dB = 1.28mW/g

SAR MEASUREMENT PLOT 4

Ambient Temperature
Liquid Temperature
Humidity

20.5 Degrees Celsius
20.0 Degrees Celsius
54.0 %

Test Date: 21 March 2006

File Name: [Arm Held DSSS 2450 MHz Versalium Antenna A Bluetooth Off 21-03-06.da4](#)

DUT: Fujitsu Tablet Versalium with Atheros 11abg and Bluetooth; Type: XB62; Serial: MAC: 0011F5-C22B36

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

* Medium parameters used: $\sigma = 1.95143$ mho/m, $\epsilon_r = 51.6131$; $\rho = 1000$ kg/m³

- 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) = 1.84 mW/g

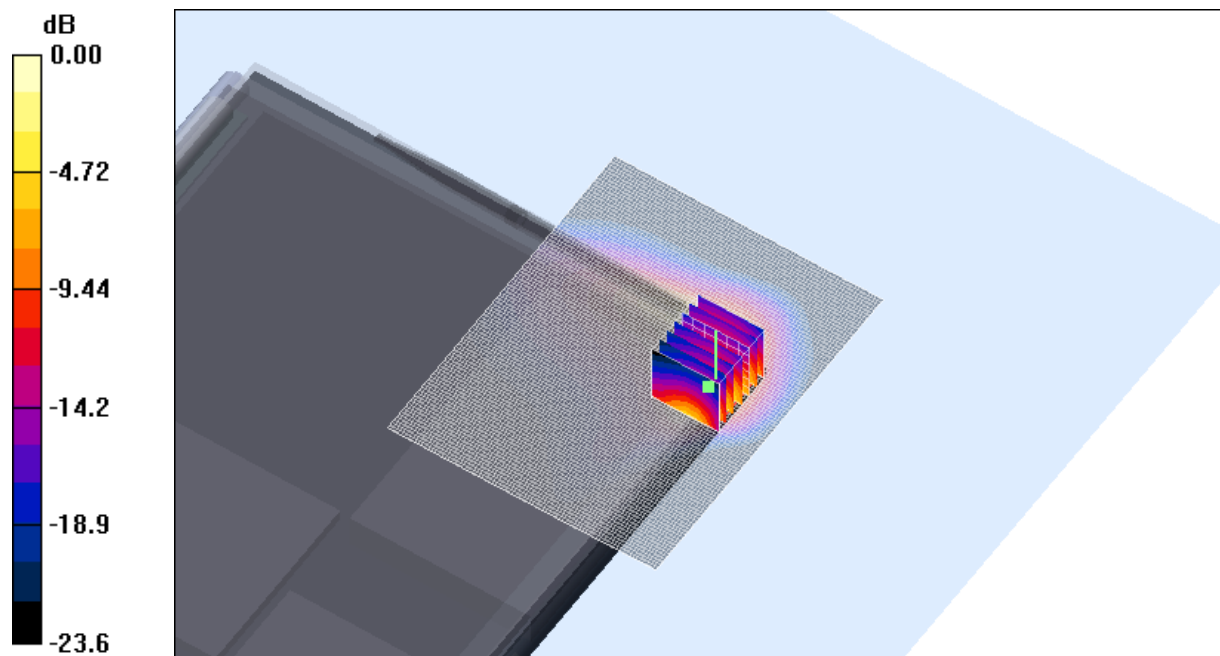
Channel 11 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 23.5 V/m; Power Drift = -0.024 dB

Peak SAR (extrapolated) = 3.03 W/kg

SAR(1 g) = 1.44 mW/g; SAR(10 g) = 0.645 mW/g

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

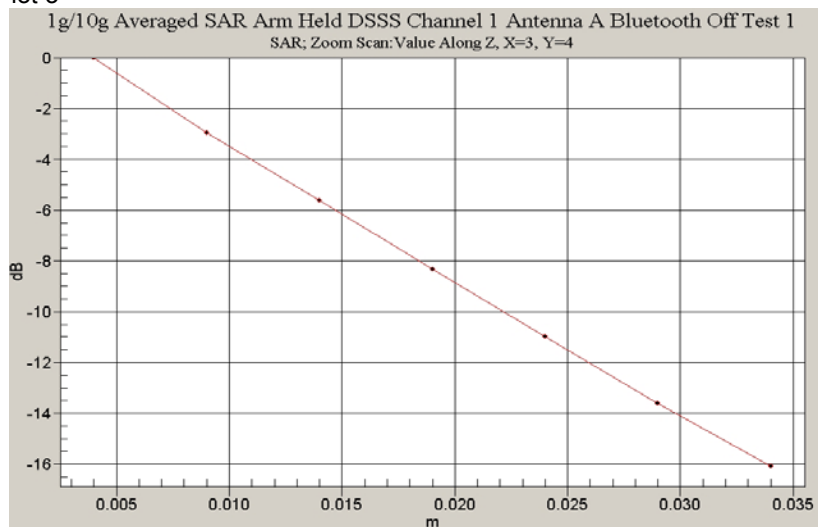


SAR MEASUREMENT PLOT 5

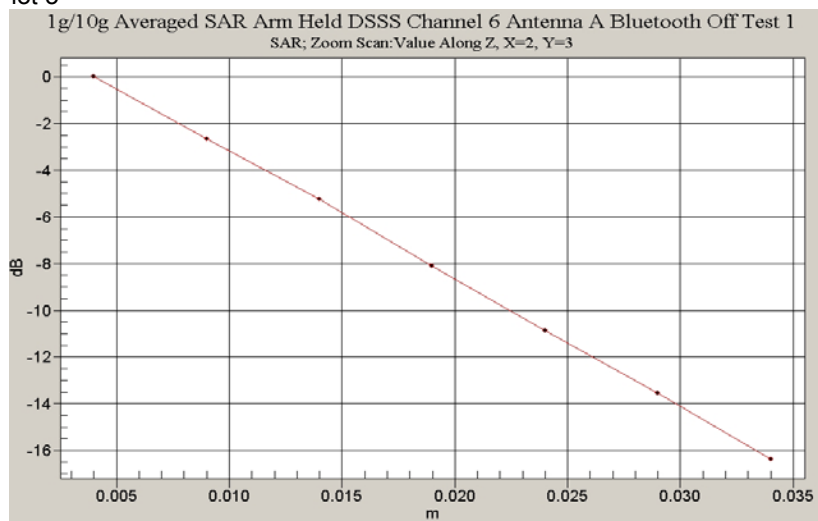
Ambient Temperature
Liquid Temperature
Humidity

20.5 Degrees Celsius
20.0 Degrees Celsius
54.0 %

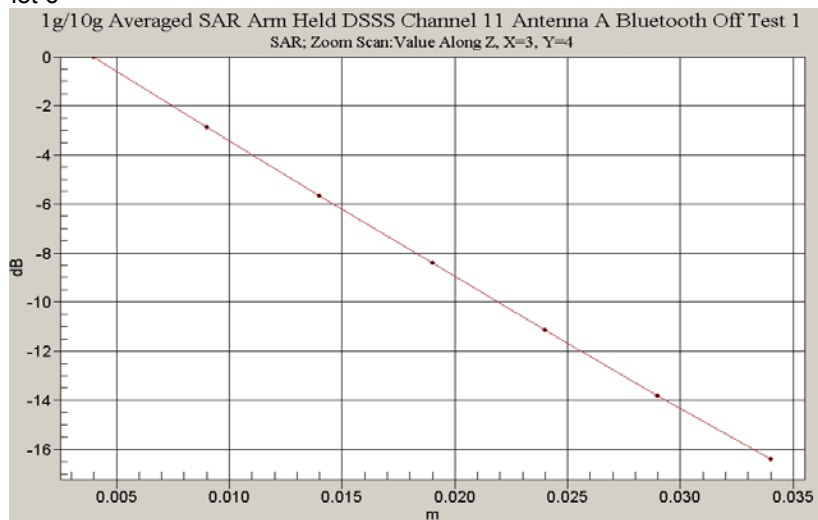
Z-Axis Graph for Plot 3



Z-Axis Graph for Plot 5



Z-Axis Graph for Plot 6



Test Date: 21 March 2006

File Name: [Arm Held DSSS 2450 MHz Versalius Antenna B Bluetooth Off 21-03-06.da4](#)

DUT: Fujitsu Tablet Versalius with Atheros 11abg and Bluetooth; Type: XB62; Serial: MAC: 0011F5-C22B36

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

* Medium parameters used: $\sigma = 1.86728$ mho/m, $\epsilon_r = 51.8863$; $\rho = 1000$ kg/m³

- 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) = 1.92 mW/g

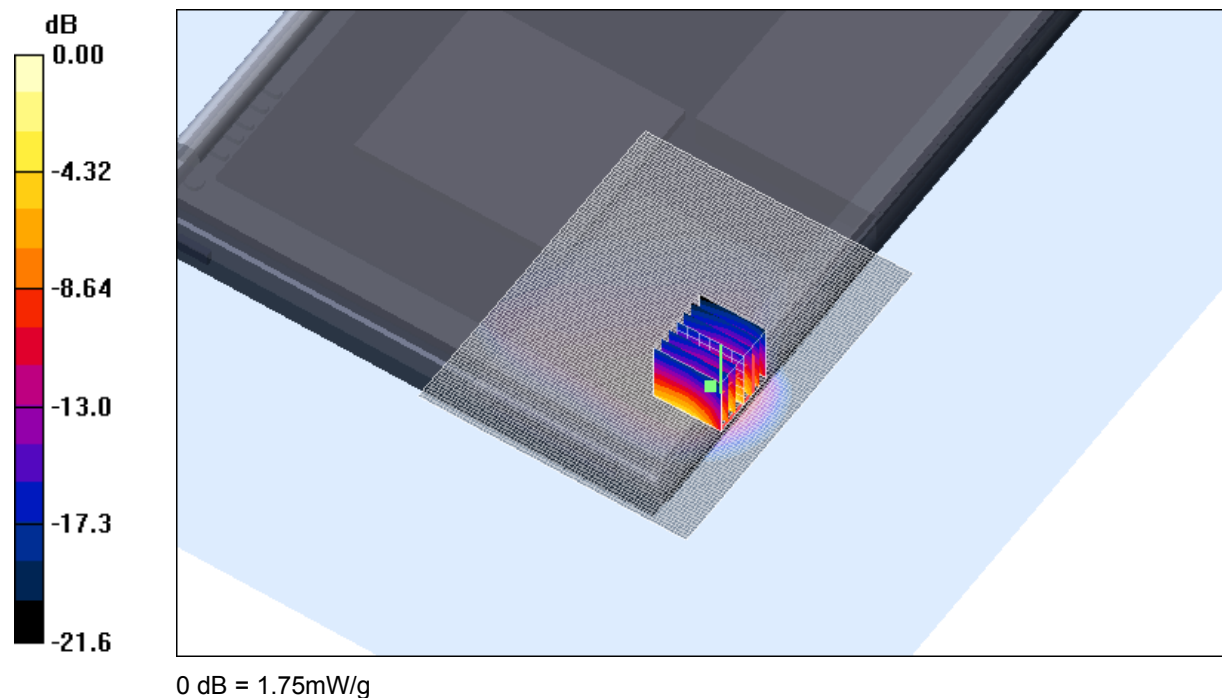
Channel 1 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 23.2 V/m; Power Drift = 0.085 dB

Peak SAR (extrapolated) = 3.74 W/kg

SAR(1 g) = 1.59 mW/g; SAR(10 g) = 0.684 mW/g

Maximum value of SAR (measured) = 1.75 mW/g



SAR MEASUREMENT PLOT 6

Ambient Temperature
Liquid Temperature
Humidity

20.5 Degrees Celsius
20.0 Degrees Celsius
54.0 %

Test Date: 21 March 2006

File Name: [Arm Held DSSS 2450 MHz Versalium Antenna B Bluetooth Off 21-03-06.da4](#)

DUT: Fujitsu Tablet Versalium with Atheros 11abg and Bluetooth; Type: XB62; Serial: MAC: 0011F5-C22B36

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

* Medium parameters used: $\sigma = 1.90962$ mho/m, $\epsilon_r = 51.7416$; $\rho = 1000$ kg/m³

- 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) = 1.97 mW/g

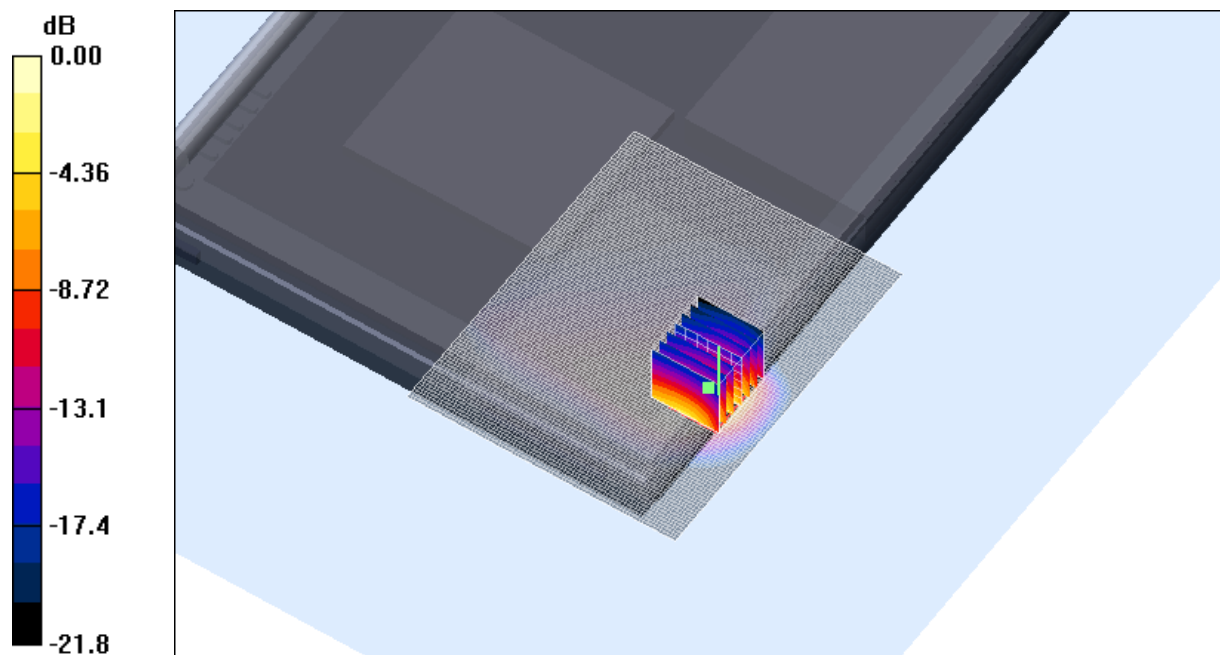
Channel 6 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 20.9 V/m; Power Drift = -0.197 dB

Peak SAR (extrapolated) = 2.91 W/kg

SAR(1 g) = 1.29 mW/g; SAR(10 g) = 0.561 mW/g

Maximum value of SAR (measured) = 1.42 mW/g



0 dB = 1.42mW/g

SAR MEASUREMENT PLOT 7

Ambient Temperature
Liquid Temperature
Humidity

20.5 Degrees Celsius
20.0 Degrees Celsius
54.0 %

Test Date: 21 March 2006

File Name: [Arm Held DSSS 2450 MHz Versalius Antenna B Bluetooth Off 21-03-06.da4](#)

DUT: Fujitsu Tablet Versalius with Atheros 11abg and Bluetooth; Type: XB62; Serial: MAC: 0011F5-C22B36

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

* Medium parameters used: $\sigma = 1.95143$ mho/m, $\epsilon_r = 51.6131$; $\rho = 1000$ kg/m³

- 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

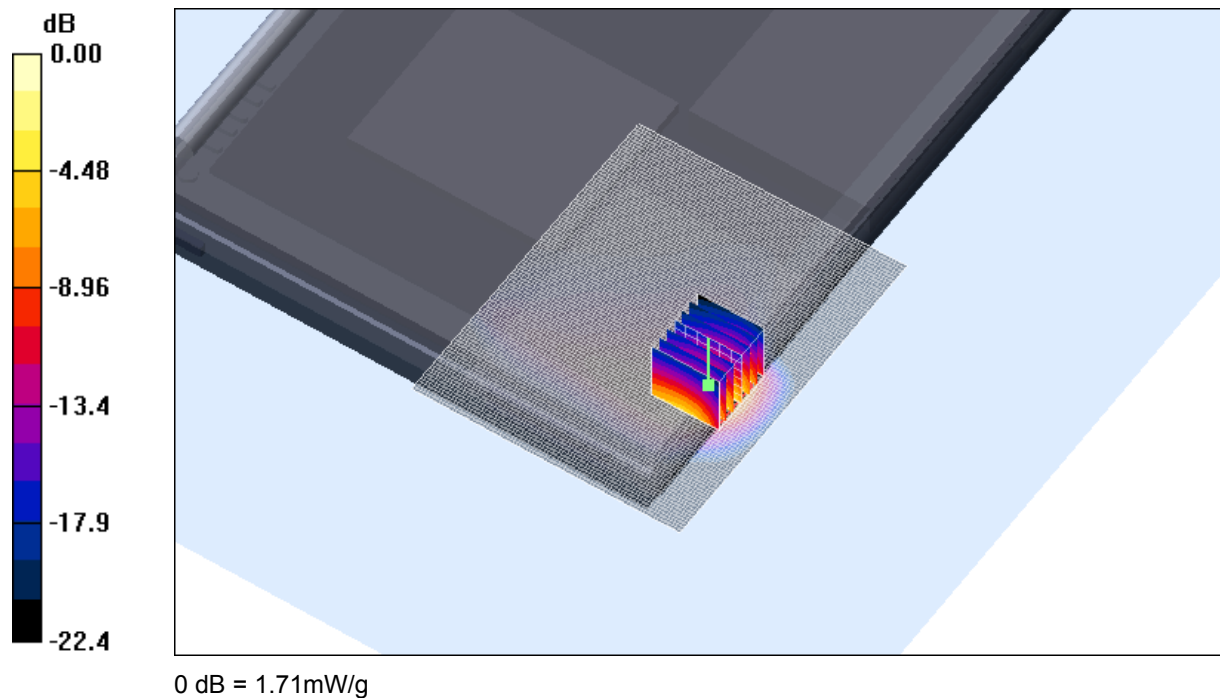
Channel 11 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 18.5 V/m; Power Drift = 0.369 dB

Peak SAR (extrapolated) = 3.67 W/kg

SAR(1 g) = 1.55 mW/g; SAR(10 g) = 0.655 mW/g

Maximum value of SAR (measured) = 1.71 mW/g

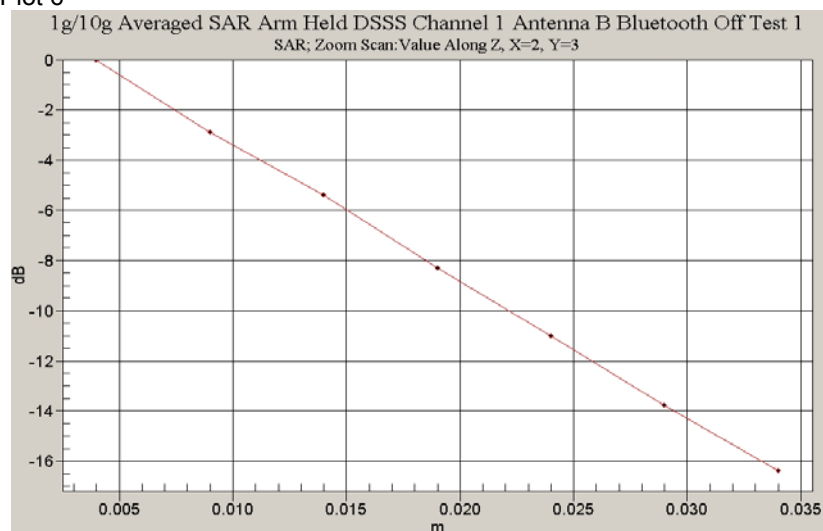


SAR MEASUREMENT PLOT 8

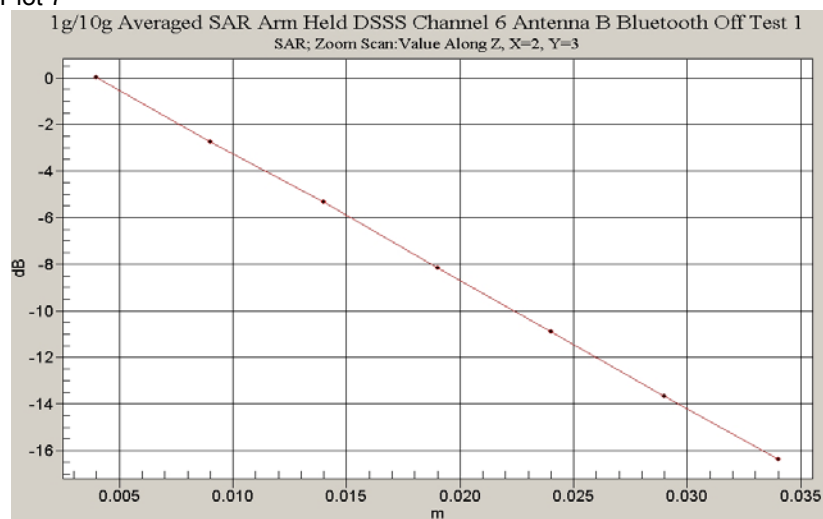
Ambient Temperature
Liquid Temperature
Humidity

20.5 Degrees Celsius
20.0 Degrees Celsius
54.0 %

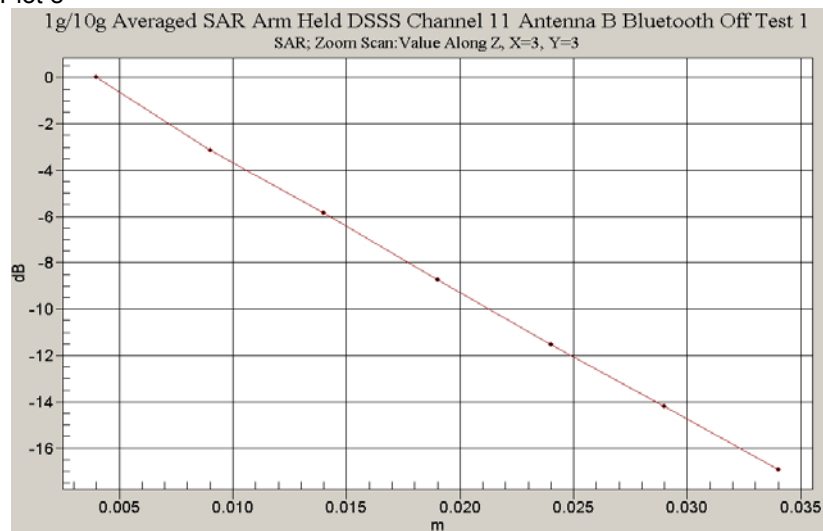
Z-Axis Graph for Plot 6



Z-Axis Graph for Plot 7



Z-Axis Graph for Plot 8



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Test Date: 21 March 2006

File Name: [Tablet DSSS 2450 MHz Versalium Antenna B Bluetooth Off Prescan 21-03-06.da4](#)

DUT: Fujitsu Tablet Versalium with Atheros 11abg and Bluetooth; Type: XB62; Serial: MAC: 0011F5-C22B36

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

* Medium parameters used: $\sigma = 1.90962$ mho/m, $\epsilon_r = 51.7416$; $\rho = 1000$ kg/m³

- 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

Channel 6 Bluetooth at 2441 MHz Test/Zoom Scan (7x7x7)/Cube 0: Measurement

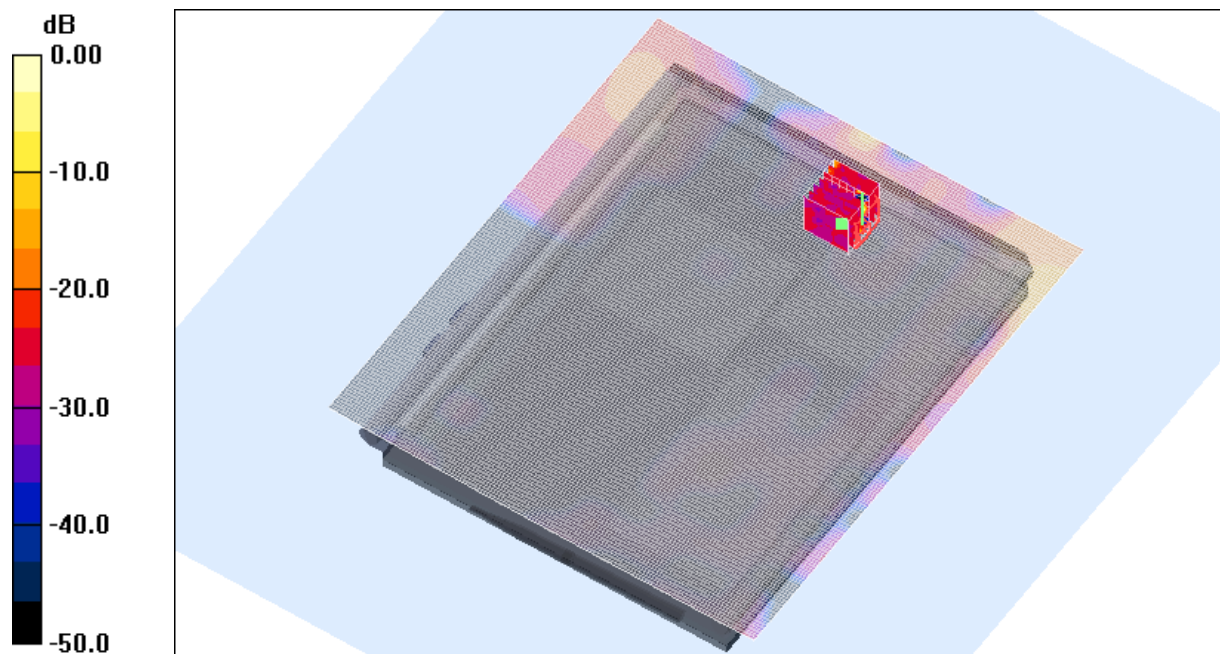
grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 0.877 V/m; Power Drift = 2.96 dB

Peak SAR (extrapolated) = 0.180 W/kg

SAR(1 g) = 0.0034 mW/g; SAR(10 g) = 0.000599 mW/g

Maximum value of SAR (measured) = 0.180 mW/g



0 dB = 0.180mW/g

SAR MEASUREMENT PLOT 9

Ambient Temperature
Liquid Temperature
Humidity

20.5 Degrees Celsius
20.0 Degrees Celsius
54.0 %

Test Date: 20 March 2006

File Name: [Edge On DSSS 2450 MHz Versalius Antenna A Bluetooth Off 20-03-06.da4](#)

DUT: Fujitsu Tablet Versalius with Atheros 11abg and Bluetooth; Type: XB62; Serial: MAC: 0011F5-C22B36

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

* Medium parameters used: $\sigma = 1.88135$ mho/m, $\epsilon_r = 51.8829$; $\rho = 1000$ kg/m³

- 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) = 1.08 mW/g

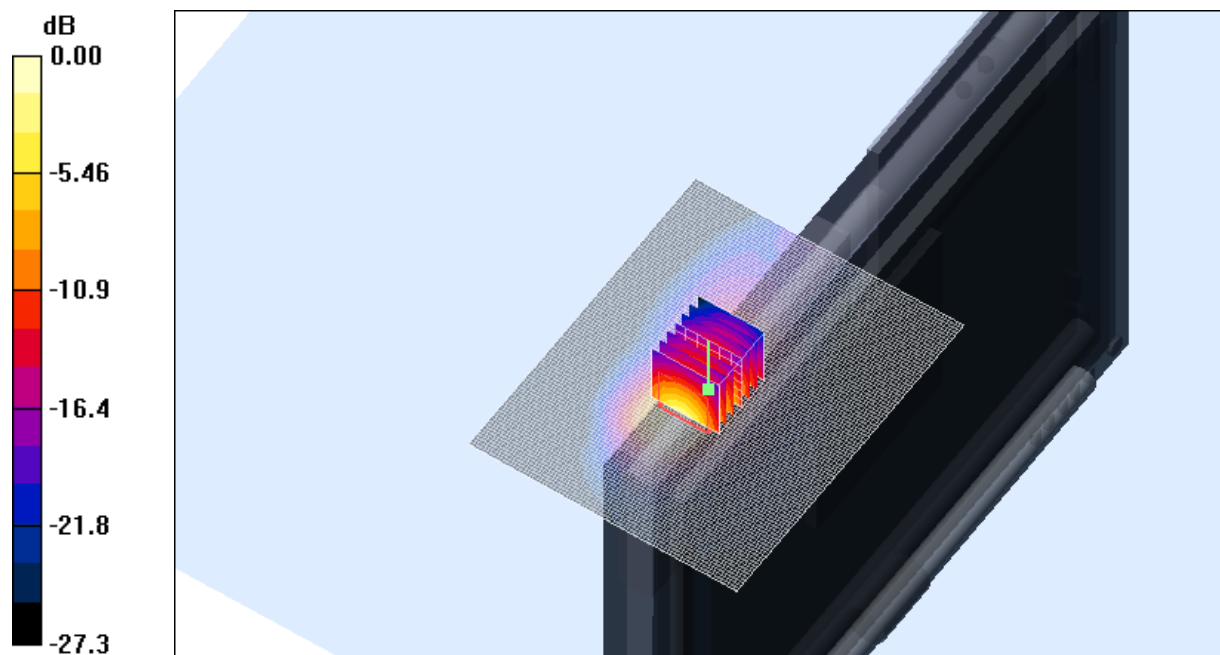
Channel 1 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 23.1 V/m; Power Drift = 0.089 dB

Peak SAR (extrapolated) = 2.04 W/kg

SAR(1 g) = 0.928 mW/g; SAR(10 g) = 0.391 mW/g

Maximum value of SAR (measured) = 1.11 mW/g



0 dB = 1.11mW/g

SAR MEASUREMENT PLOT 10

Ambient Temperature
Liquid Temperature
Humidity

20.1 Degrees Celsius
19.9 Degrees Celsius
52.0 %

Test Date: 20 March 2006

File Name: [Edge On DSSS 2450 MHz Versalium Antenna A Bluetooth Off 20-03-06.da4](#)

DUT: Fujitsu Tablet Versalium with Atheros 11abg and Bluetooth; Type: XB62; Serial: MAC: 0011F5-C22B36

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

* Medium parameters used: $\sigma = 1.92142$ mho/m, $\epsilon_r = 51.7615$; $\rho = 1000$ kg/m³

- 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) = 1.15 mW/g

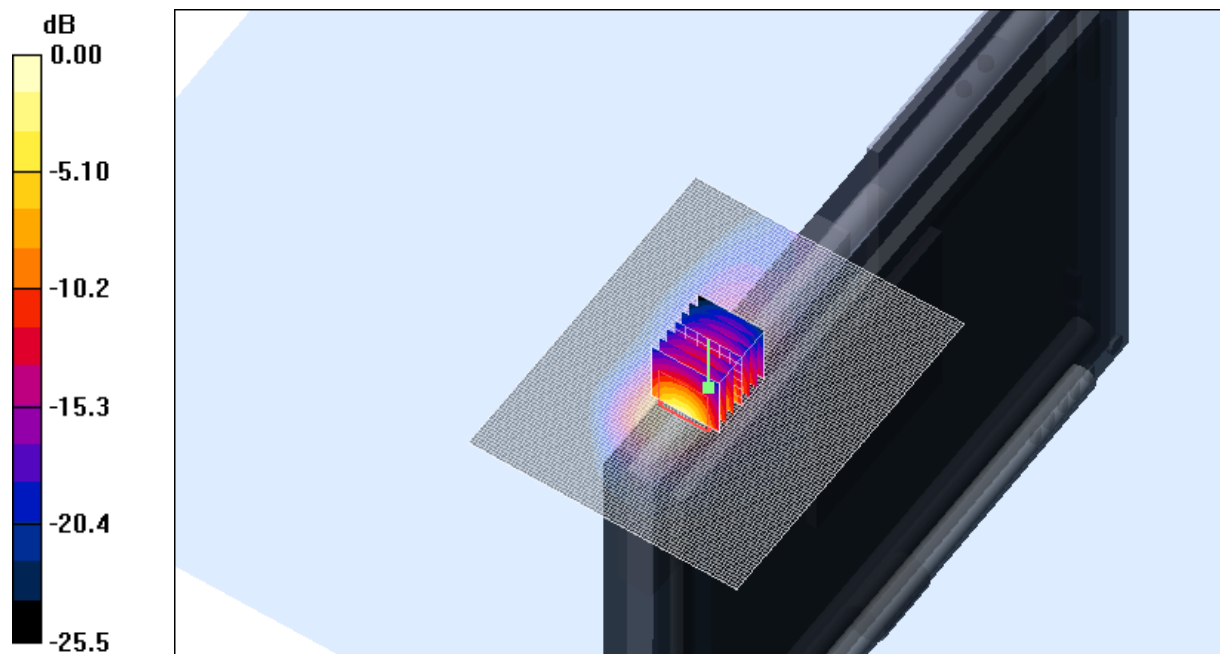
Channel 6 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 23.9 V/m; Power Drift = 0.087 dB

Peak SAR (extrapolated) = 2.12 W/kg

SAR(1 g) = 0.979 mW/g; SAR(10 g) = 0.415 mW/g

Maximum value of SAR (measured) = 1.17 mW/g



SAR MEASUREMENT PLOT 11

Ambient Temperature
Liquid Temperature
Humidity

20.1 Degrees Celsius
19.9 Degrees Celsius
52.0 %

Test Date: 20 March 2006

File Name: [Edge On DSSS 2450 MHz Versalius Antenna A Bluetooth Off 20-03-06.da4](#)

DUT: Fujitsu Tablet Versalius with Atheros 11abg and Bluetooth; Type: XB62; Serial: MAC: 0011F5-C22B36

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

* Medium parameters used: $\sigma = 1.95906$ mho/m, $\epsilon_r = 51.6165$; $\rho = 1000$ kg/m³

- 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) = 1.43 mW/g

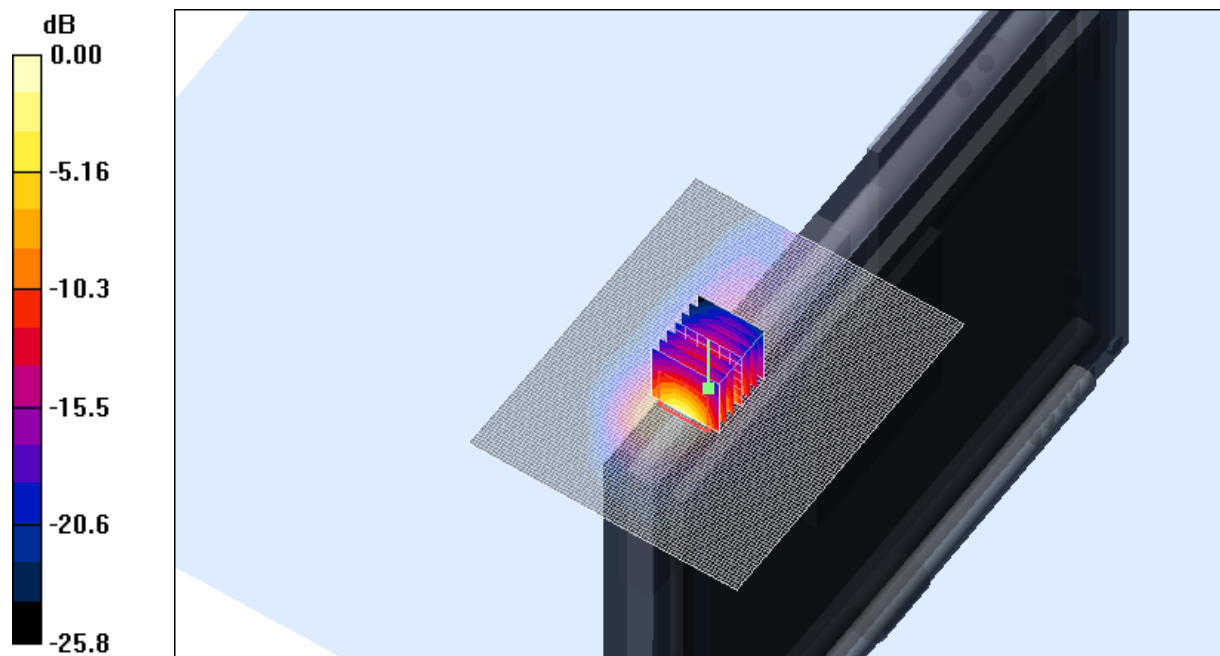
Channel 11 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 25.8 V/m; Power Drift = 0.064 dB

Peak SAR (extrapolated) = 2.69 W/kg

SAR(1 g) = 1.22 mW/g; SAR(10 g) = 0.514 mW/g

Maximum value of SAR (measured) = 1.46 mW/g



0 dB = 1.46mW/g

SAR MEASUREMENT PLOT 12

Ambient Temperature

20.1 Degrees Celsius

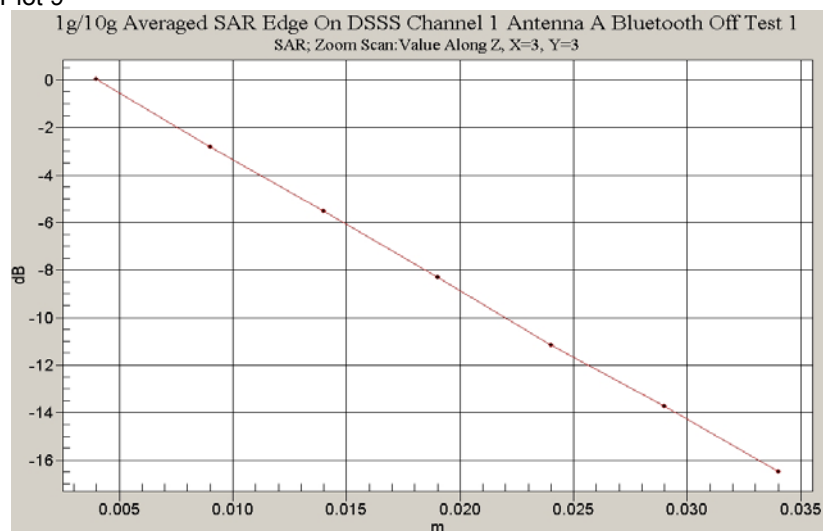
Liquid Temperature

19.9 Degrees Celsius

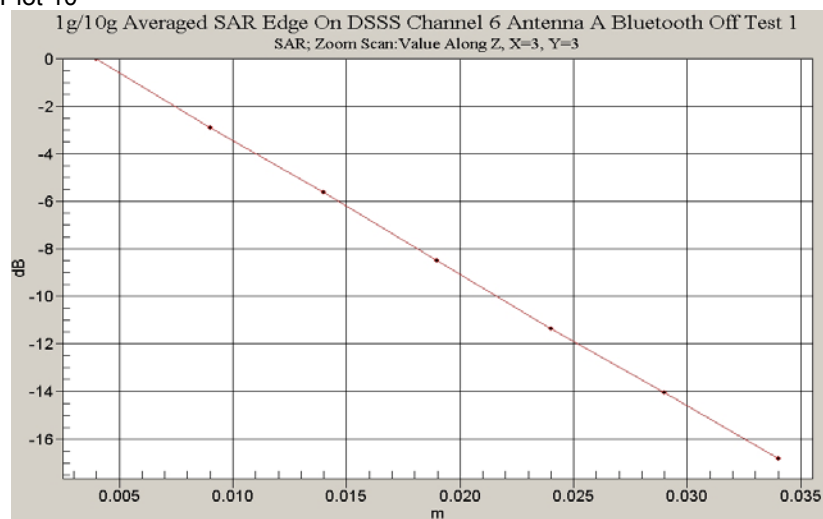
Humidity

52.0 %

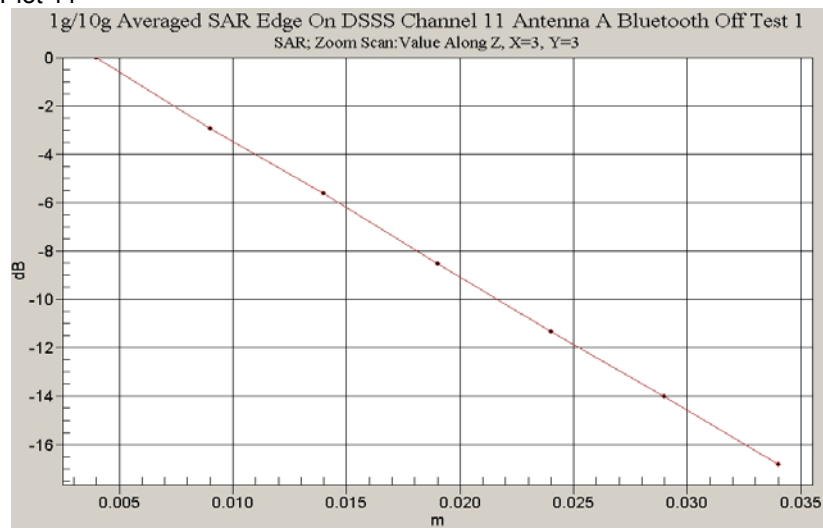
Z-Axis Graph for Plot 9



Z-Axis Graph for Plot 10



Z-Axis Graph for Plot 11



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