

## 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**

|                      |   |       |
|----------------------|---|-------|
| <b>Plot 1</b>        | Lap Arm Held Position – Ant A – Pre-scan    | CH#06 |
| <b>Plot 2</b>        | Lap Arm Held Position – Ant B – Pre-scan    | CH#06 |
| <b>Plot 3</b>        | Lap Arm Held Position – Ant A               | CH#06 |
| <b>Plot 4</b>        | Lap Arm Held Position – Ant B               | CH#01 |
| <b>Z-Axis Graphs</b> | Z-Axis graphs for Plots 3 to 4              |       |
| <b>Plot 5</b>        | Lap Arm Held Position – Ant B               | CH#06 |
| <b>Plot 6</b>        | Lap Arm Held Position – Ant B               | CH#11 |
| <b>Z-Axis Graphs</b> | Z-Axis graphs for Plots 5 to 6              |       |
| <b>Plot 7</b>        | Tablet Position – Ant B – Pre-scan          | CH#06 |
| <b>Plot 8</b>        | Edge On Side Position – Ant B               | CH#01 |
| <b>Plot 9</b>        | Edge On Side Position – Ant B               | CH#06 |
| <b>Plot 10</b>       | Edge On Side Position – Ant B               | CH#11 |
| <b>Z-Axis Graphs</b> | Z-Axis graphs for Plots 8 to 10             |       |
|                      | WLAN with Bluetooth On                      |       |
| <b>Plot 11</b>       | Lap Arm Held Position With Blue tooth Ant B | CH#06 |
| <b>Plot 12</b>       | Edge On Side Position With Blue tooth Ant B | CH#11 |
| <b>Z-axis graphs</b> | Z-Axis graphs for Plots 11 to 12            |       |

**Table 23: 2450 MHz OFDM Band SAR Measurement Plot Numbers**

|                      |                                 |       |
|----------------------|---------------------------------|-------|
| <b>Plot 13</b>       | Lap Arm Held Position – Ant A   | CH#06 |
| <b>Plot 14</b>       | Lap Arm Held Position – Ant B   | CH#06 |
| <b>Z-Axis Graphs</b> | Z-Axis graphs for Plot 13 to 14 |       |

**Table 24: 2450MHz Validation Plot**

|                      |  |
|----------------------|--|
| <b>Plot 15</b>       | Validation 2450MHz 8 <sup>th</sup> August 2006 |
| <b>Z-Axis Graphs</b> | Z-Axis graphs for Plots 15                     |

Test Date: 08 August 2006

File Name: [Arm Held DSSS 2450 MHz Antenna A Bluetooth Off Prescan 08-08-06.da4](#)

DUT: Fujitsu Tablet Chalice with Atheros 11abg and Bluetooth; Type: XB62; Serial: Host: R6700013

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

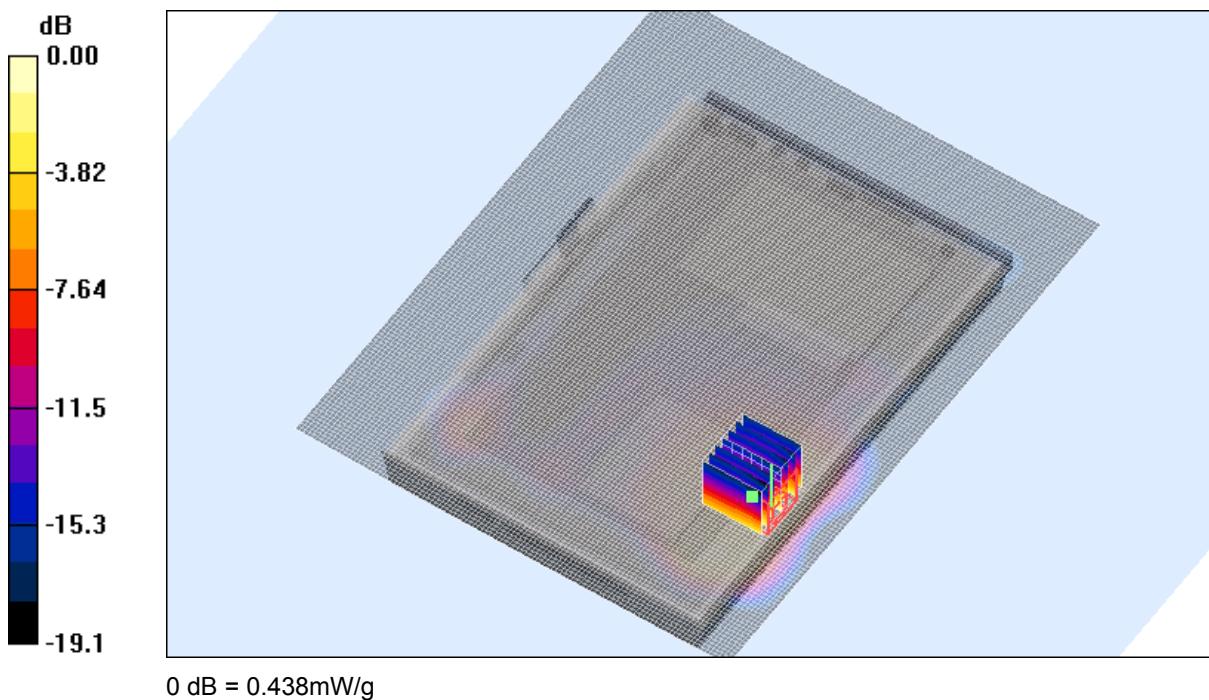
\* Medium parameters used:  $\sigma = 1.95564 \text{ mho/m}$ ,  $\epsilon_r = 51.3032$ ;  $\rho = 1000 \text{ kg/m}^3$

- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1377; ConvF(4.2, 4.2, 4.2)

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

**Channel 6 Test 2/Area Scan (111x141x1):** Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.316 mW/g



Ambient Temperature

20.2 Degrees Celsius

Liquid Temperature

19.8 Degrees Celsius

Humidity

37.0 %

**Test Date: 08 August 2006**

File Name: [Arm Held DSSS 2450 MHz Antenna B Bluetooth On Prescan 08-08-06.da4](#)

DUT: Fujitsu Tablet Chalice with Atheros 11abg and Bluetooth; Type: XB62; Serial: Host: R6700013

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

\* Medium parameters used:  $\sigma = 1.95564 \text{ mho/m}$ ,  $\epsilon_r = 51.3032$ ;  $\rho = 1000 \text{ kg/m}^3$

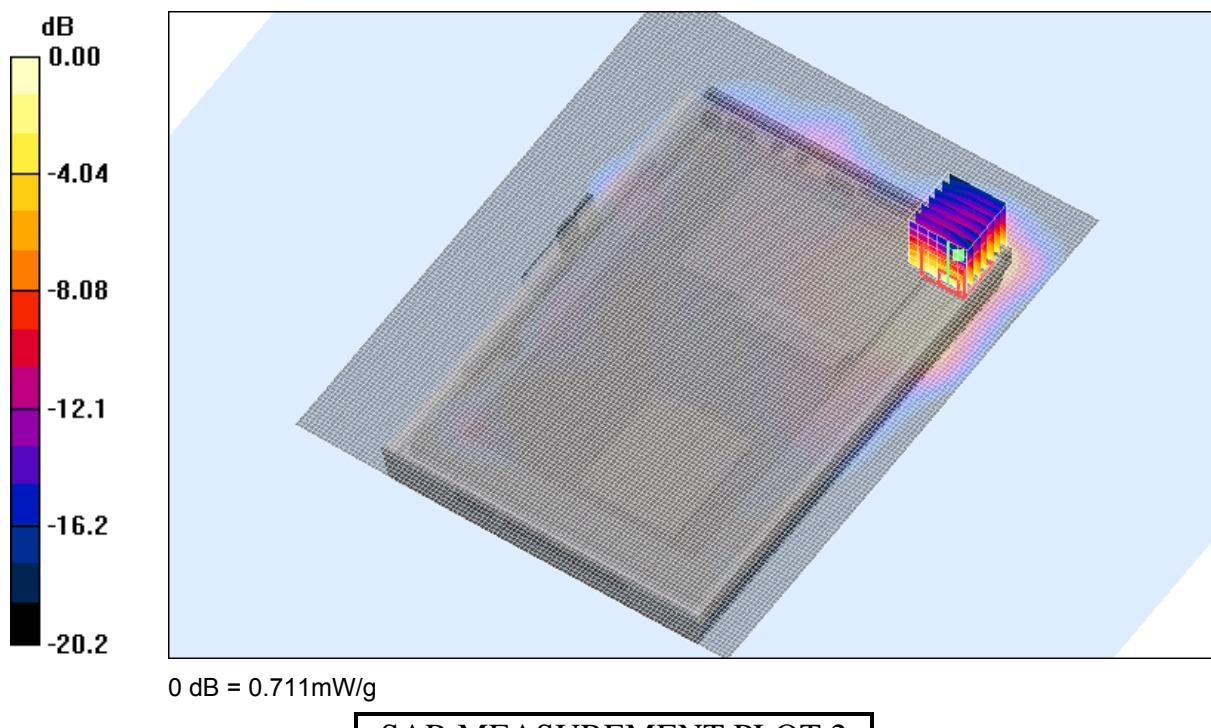
- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1377; ConvF(4.2, 4.2, 4.2)

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

### Channel 6 Bluetooth at 2441 MHz Test/Area Scan (111x141x1): Measurement grid:

dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.887 mW/g



Ambient Temperature

20.2 Degrees Celsius

Liquid Temperature

19.8 Degrees Celsius

Humidity

37.0 %

**Test Date: 08 August 2006**

File Name: [Arm Held DSSS 2450 MHz Antenna A Bluetooth Off 08-08-06.da4](#)

DUT: Fujitsu Tablet Chalice with Atheros 11abg and Bluetooth; Type: XB62; Serial: Host: R6700013

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

\* Medium parameters used:  $\sigma = 1.95564 \text{ mho/m}$ ,  $\epsilon_r = 51.3032$ ;  $\rho = 1000 \text{ kg/m}^3$

- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1377; ConvF(4.2, 4.2, 4.2)

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

**Channel 6 Test/Area Scan (61x81x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.368 mW/g

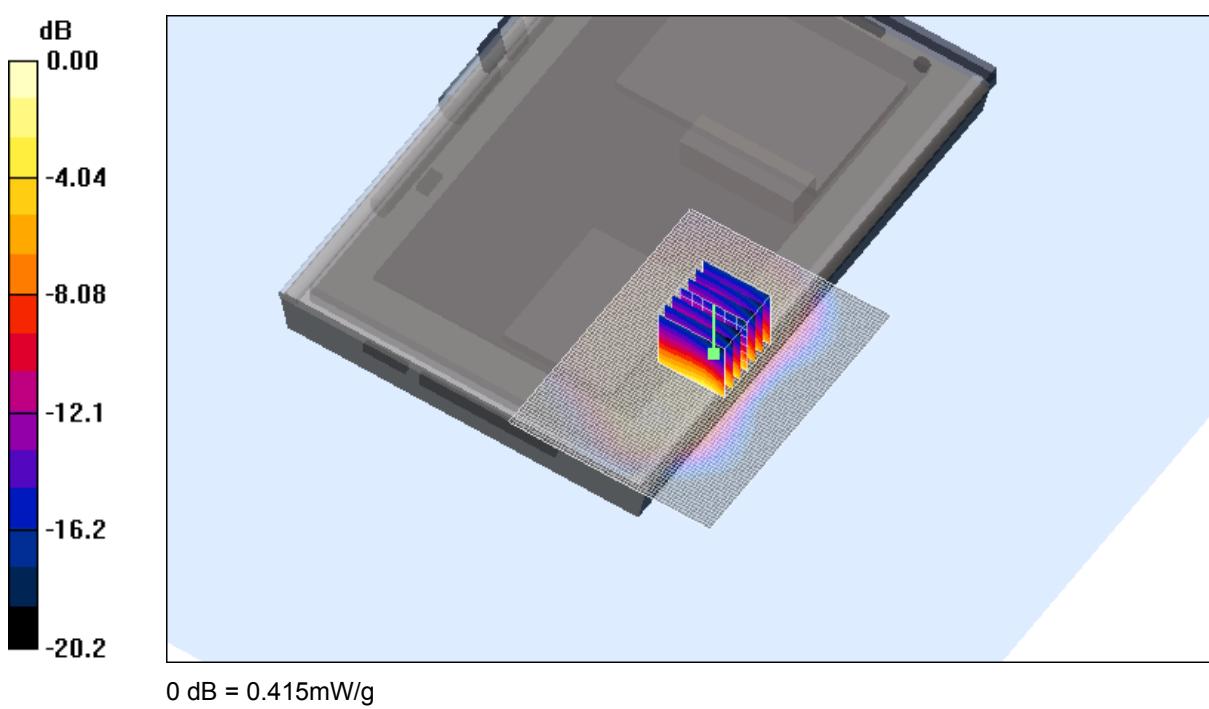
**Channel 6 Test/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 13.1 V/m; Power Drift = 0.139 dB

Peak SAR (extrapolated) = 0.924 W/kg

**SAR(1 g) = 0.389 mW/g; SAR(10 g) = 0.183 mW/g**

Maximum value of SAR (measured) = 0.415 mW/g



Ambient Temperature  
Liquid Temperature  
Humidity

20.2 Degrees Celsius  
19.8 Degrees Celsius  
37.0 %

**Test Date: 08 August 2006**

File Name: [Arm Held DSSS 2450 MHz Antenna B Bluetooth Off 08-08-06.da4](#)

DUT: Fujitsu Tablet Chalice with Atheros 11abg and Bluetooth; Type: XB62; Serial: Host: R6700013

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

\* Medium parameters used:  $\sigma = 1.91369 \text{ mho/m}$ ,  $\epsilon_r = 51.4243$ ;  $\rho = 1000 \text{ kg/m}^3$

- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1377; ConvF(4.2, 4.2, 4.2)

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

**Channel 1 Test/Area Scan (61x81x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.773 mW/g

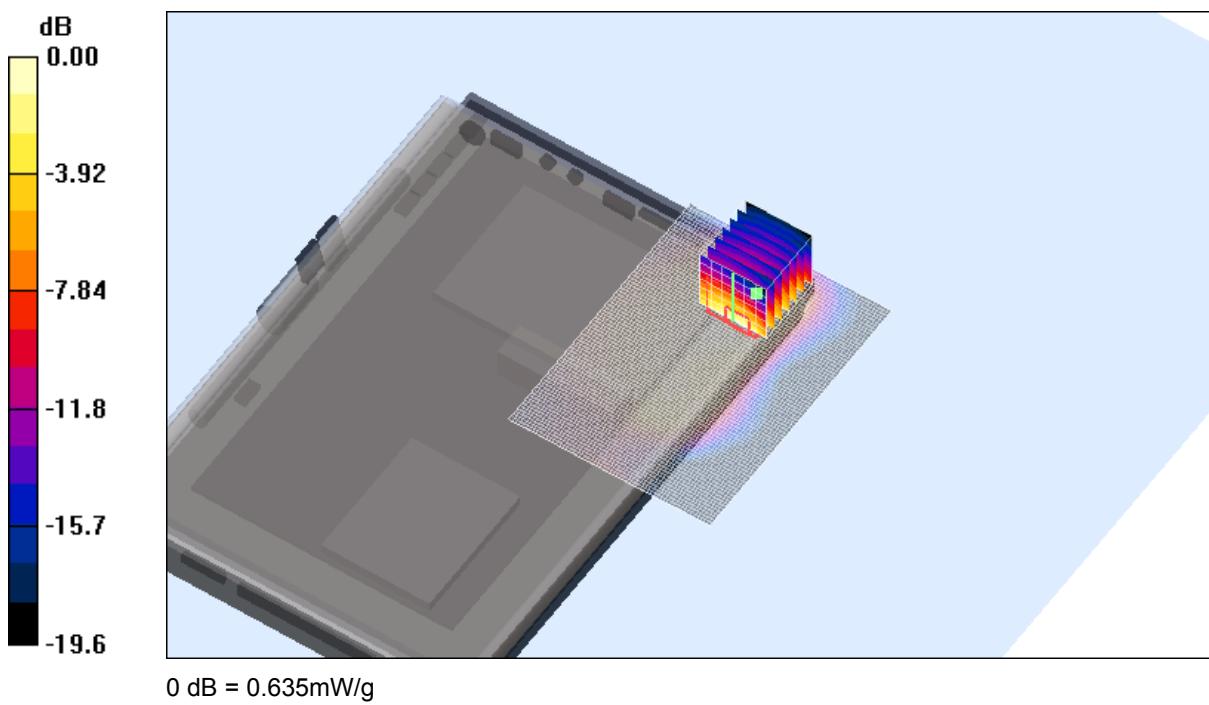
**Channel 1 Test/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 18.2 V/m; Power Drift = 0.126 dB

Peak SAR (extrapolated) = 1.43 W/kg

**SAR(1 g) = 0.575 mW/g; SAR(10 g) = 0.310 mW/g**

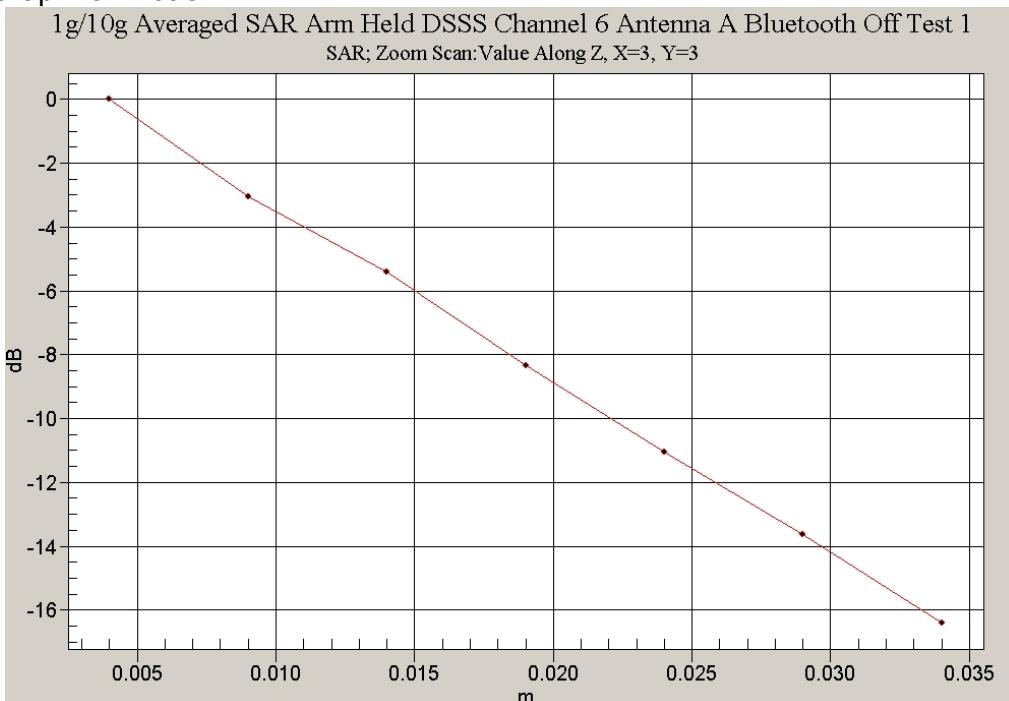
Maximum value of SAR (measured) = 0.635 mW/g



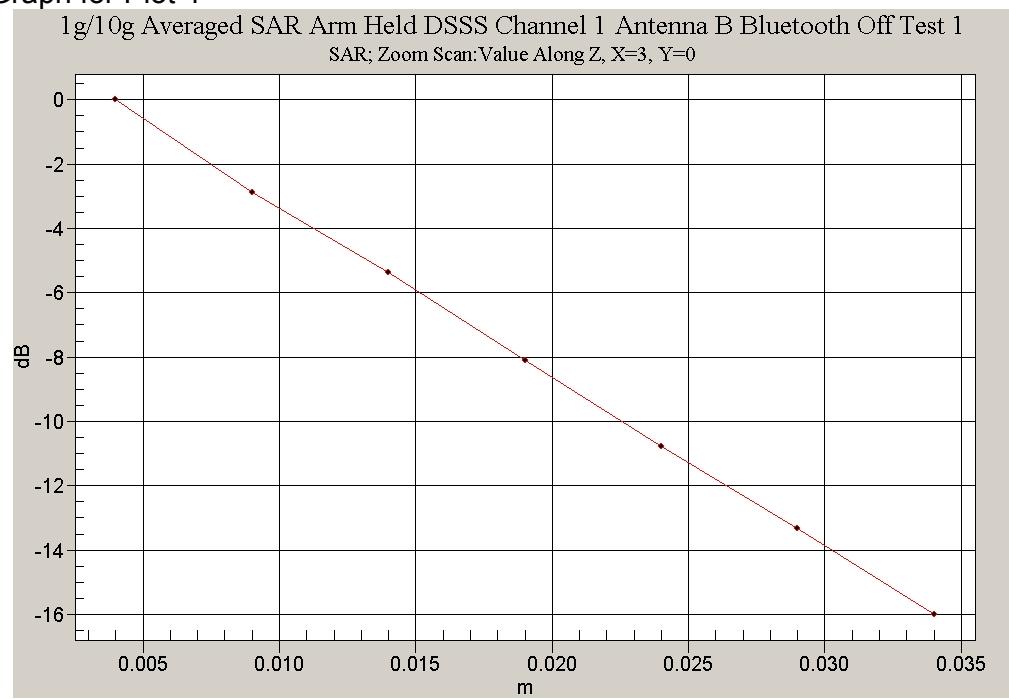
Ambient Temperature  
Liquid Temperature  
Humidity

20.2 Degrees Celsius  
19.8 Degrees Celsius  
37.0 %

### Z-Axis Graph for Plot 3



### Z-Axis Graph for Plot 4



Test Date: 08 August 2006

File Name: [Arm Held DSSS 2450 MHz Antenna B Bluetooth Off 08-08-06.da4](#)

DUT: Fujitsu Tablet Chalice with Atheros 11abg and Bluetooth; Type: XB62; Serial: Host: R6700013

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

\* Medium parameters used:  $\sigma = 1.95564 \text{ mho/m}$ ,  $\epsilon_r = 51.3032$ ;  $\rho = 1000 \text{ kg/m}^3$

- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1377; ConvF(4.2, 4.2, 4.2)

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

**Channel 6 Test/Area Scan (61x81x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.745 mW/g

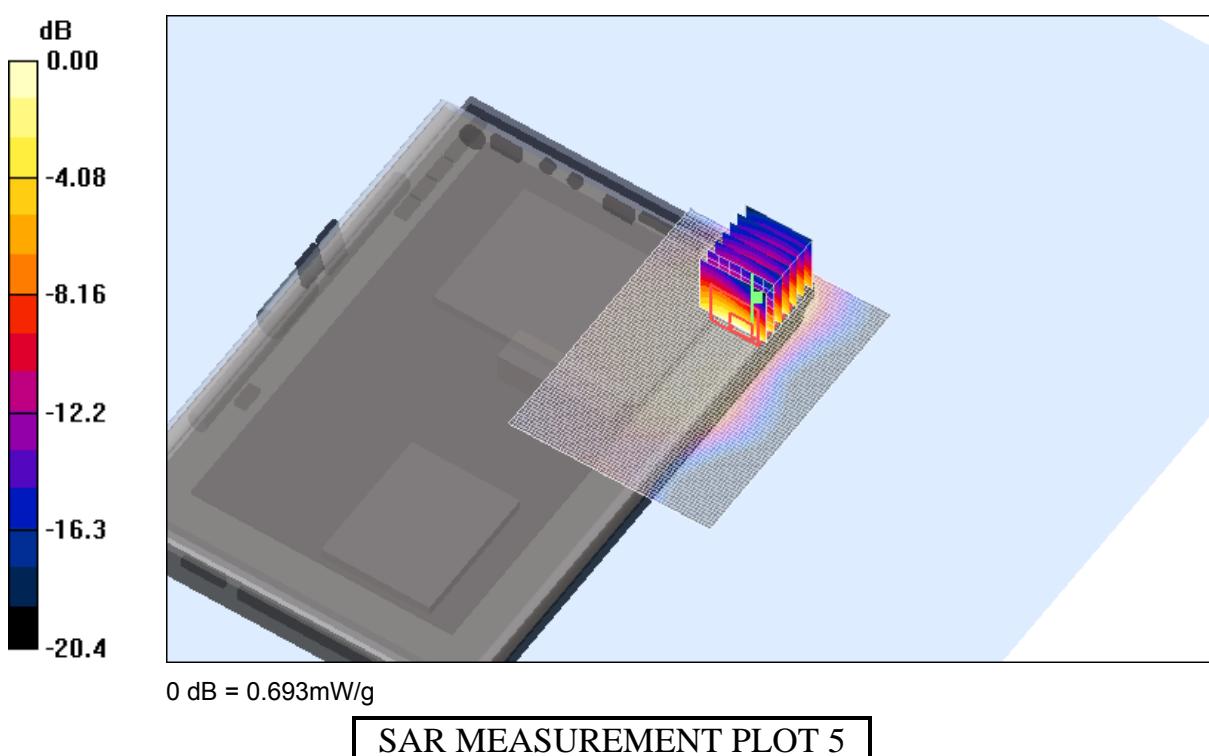
**Channel 6 Test/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 18.6 V/m; Power Drift = 0.059 dB

Peak SAR (extrapolated) = 1.51 W/kg

**SAR(1 g) = 0.635 mW/g; SAR(10 g) = 0.333 mW/g**

Maximum value of SAR (measured) = 0.693 mW/g



Ambient Temperature

20.2 Degrees Celsius

Liquid Temperature

19.8 Degrees Celsius

Humidity

37.0 %

**Test Date: 08 August 2006**

File Name: [Arm Held DSSS 2450 MHz Antenna B Bluetooth Off 08-08-06.da4](#)

DUT: Fujitsu Tablet Chalice with Atheros 11abg and Bluetooth; Type: XB62; Serial: Host: R6700013

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

\* Medium parameters used:  $\sigma = 1.99267 \text{ mho/m}$ ,  $\epsilon_r = 51.1729$ ;  $\rho = 1000 \text{ kg/m}^3$

- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1377; ConvF(4.2, 4.2, 4.2)

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

**Channel 11 Test/Area Scan (61x81x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.668 mW/g

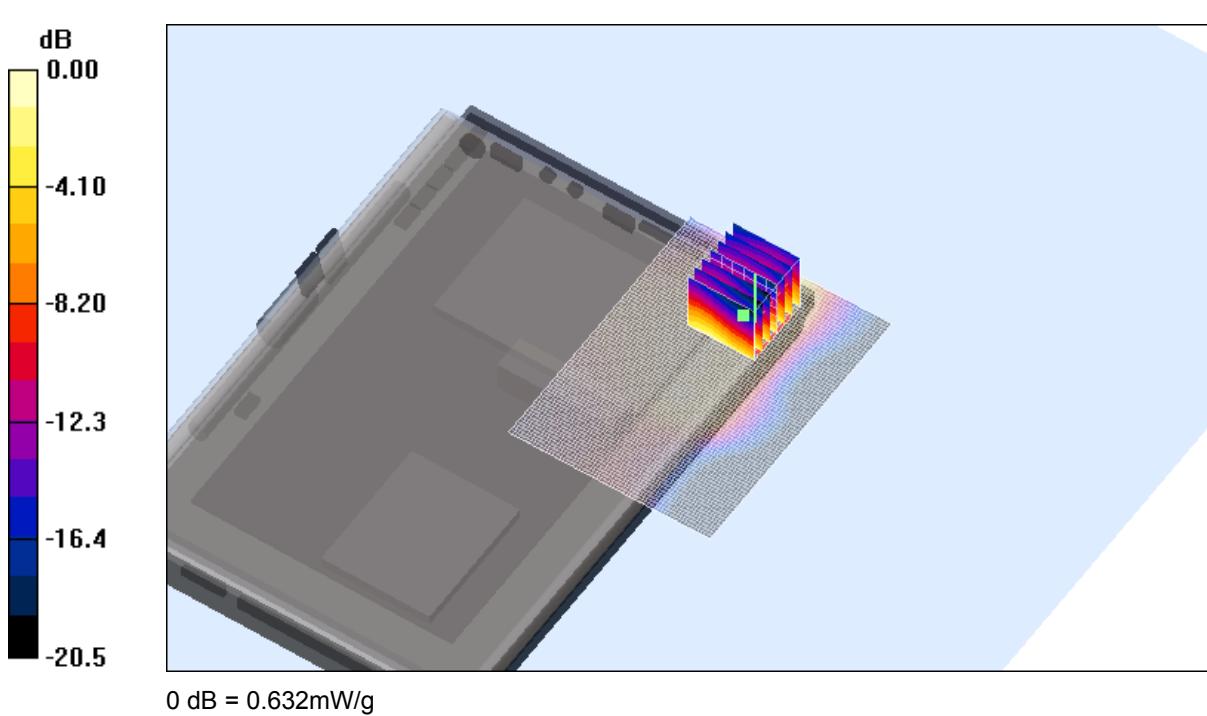
**Channel 11 Test/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 15.6 V/m; Power Drift = -0.190 dB

Peak SAR (extrapolated) = 1.42 W/kg

**SAR(1 g) = 0.581 mW/g; SAR(10 g) = 0.296 mW/g**

Maximum value of SAR (measured) = 0.632 mW/g



Ambient Temperature

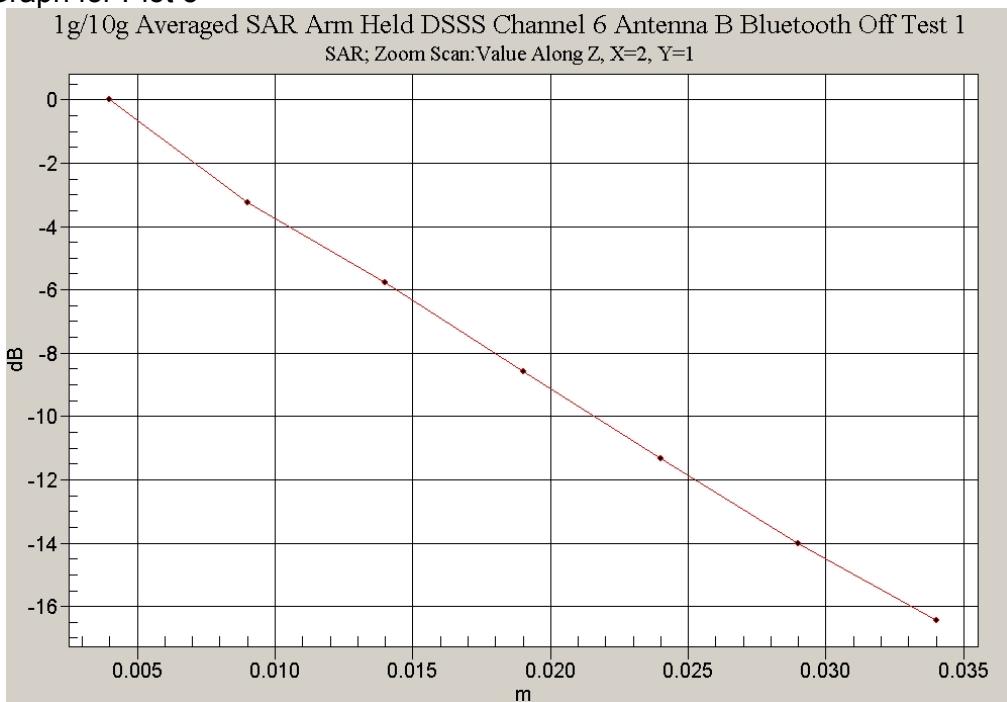
**20.2 Degrees Celsius**

Liquid Temperature

**19.8 Degrees Celsius**

Humidity

**37.0 %**

**Z-Axis Graph for Plot 5****Z-Axis Graph for Plot 6**