

## 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 30: 2450 MHz DSSS Band SAR Measurement Plot Numbers**

<b>Plot 1</b>	Lap Arm Held Position – Ant Aux – Pre-scan	CH#06
<b>Plot 2</b>	Lap Arm Held Position – Ant Main – Pre-scan	CH#06
<b>Plot 3</b>	Lap Arm Held Position – Ant Aux	CH#01
<b>Plot 4</b>	Lap Arm Held Position – Ant Aux	CH#06
<b>Plot 5</b>	Lap Arm Held Position – Ant Aux	CH#11
<b>Z-Axis Graphs</b>	Z-Axis graphs for Plots 3 to 5	
<b>Plot 6</b>	Lap Arm Held Position – Ant Main	CH#01
<b>Plot 7</b>	Lap Arm Held Position – Ant Main	CH#06
<b>Plot 8</b>	Lap Arm Held Position – Ant Main	CH#11
<b>Z-Axis Graphs</b>	Z-Axis graphs for Plots 6 – 8	
<b>Plot 9</b>	Tablet Position – Ant Aux	CH#06
<b>Plot 10</b>	Edge On Position – Ant Aux	CH#01
<b>Plot 11</b>	Edge On Position – Ant Aux	CH#06
<b>Plot 12</b>	Edge On Position – Ant Aux	CH#11
<b>Z-Axis Graphs</b>	Z-Axis graphs for Plots 10 – 12	
	WLAN with Bluetooth On	
<b>Plot 13</b>	Lap Arm Held Position With Blue tooth Ant Main	CH#11

**Table 31: 2450 MHz OFDM Band SAR Measurement Plot Numbers**

<b>Plot 14</b>	Lap Arm Held Position – Ant Aux	CH#06
<b>Plot 15</b>	Lap Arm Held Position – Ant Main	CH#06
<b>Z-Axis Graphs</b>	Z-Axis graphs for Plot 13 - 15	

**Table 32: 5800 MHz OFDM Band SAR Measurement Plot Numbers**

<b>Plot 16</b>	Lap Arm Held Position – Ant Aux – Pre-scan	CH#157
<b>Plot 17</b>	Lap Arm Held Position – Ant Main – Pre-scan	CH#157
<b>Plot 18</b>	Lap Arm Held Position – Ant Aux	CH#149
<b>Plot 19</b>	Lap Arm Held Position – Ant Aux	CH#157
<b>Plot 20</b>	Lap Arm Held Position – Ant Aux	CH#165
<b>Z-Axis graphs</b>	Z-Axis graphs for Plots 18 to 20	
<b>Plot 21</b>	Lap Arm Held Position – Ant Main	CH#149
<b>Plot 22</b>	Lap Arm Held Position – Ant Main	CH#157
<b>Plot 23</b>	Lap Arm Held Position – Ant Main	CH#165
<b>Z-Axis graphs</b>	Z-Axis graphs for Plots 21 to 23	
<b>Plot 24</b>	Tablet Position – Ant Main – Pre-scan	CH#157
<b>Plot 25</b>	Edge On Position – Ant Aux	CH#149
<b>Plot 26</b>	Edge On Position – Ant Aux	CH#157
<b>Plot 27</b>	Edge On Position – Ant Aux	CH#165
<b>Z-Axis graphs</b>	Z-Axis graphs for Plots 25 to 27	
	WLAN with Bluetooth On	
<b>Plot 28</b>	Lap Arm Held Position With Blue tooth - Ant Aux	CH#149
<b>Plot 29</b>	Lap Arm Held Position With Blue tooth - Ant Main	CH#165
<b>Z-Axis graphs</b>	Z-Axis graphs for Plots 28 to 29	

**Table 33: Validation Plot**

<b>Plot 30</b>	Validation 2450 MHz 6 <sup>th</sup> September 2006
<b>Plot 31</b>	Validation 2450 MHz 7 <sup>th</sup> September 2006
<b>Plot 32</b>	Validation 5800 MHz 15 <sup>th</sup> September 2006
<b>Z-Axis graphs</b>	Z-Axis graphs for Plots 30 to 32

Test Date: 07 September 2006

File Name: [Arm Held DSSS 2450 MHz Antenna Aux Bluetooth On Prescan 07-09-06.da4](#)

DUT: Fujitsu Tablet Chalice with Golan 11abg and Bluetooth; Type: 3945 ABG; Serial: Host: R6700003

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

\* Medium parameters used:  $\sigma = 1.92466$  mho/m,  $\epsilon_r = 50.9628$ ;  $\rho = 1000$  kg/m<sup>3</sup>

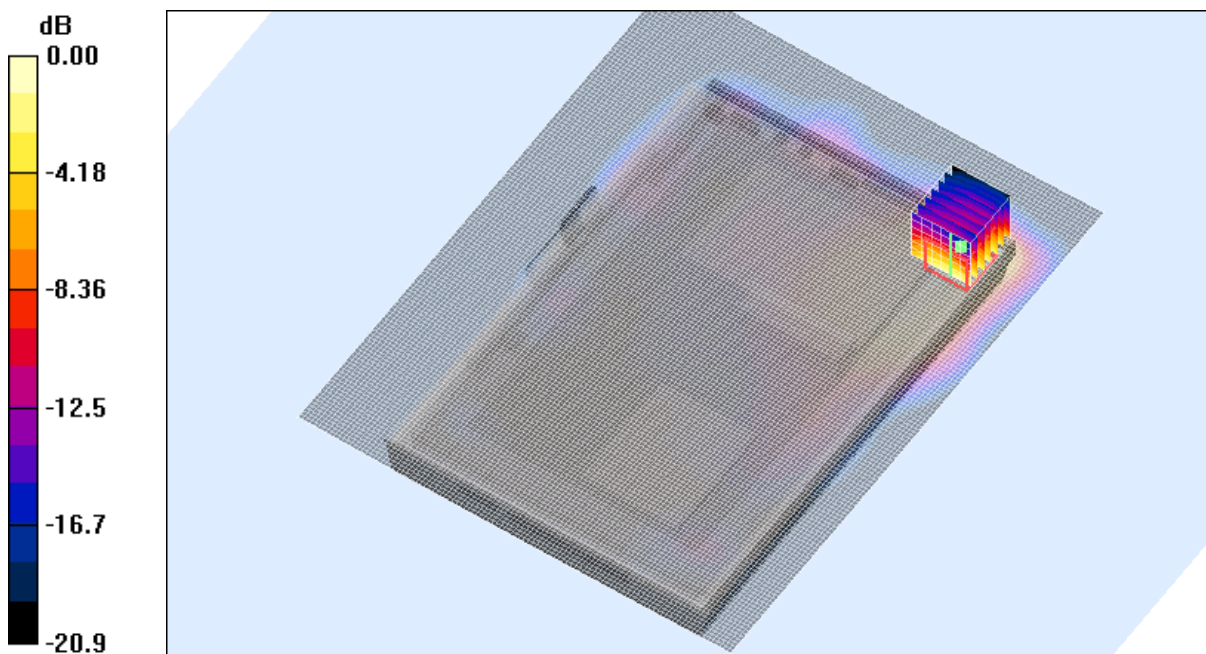
- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1377; ConvF(4.2, 4.2, 4.2)

- 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) = 0.712 mW/g



0 dB = 0.516mW/g

**SAR MEASUREMENT PLOT 1**

Ambient Temperature  
Liquid Temperature  
Humidity

20.3 Degrees Celsius  
20.0 Degrees Celsius  
41.0 %

Test Date: 07 September 2006

File Name: [Arm Held DSSS 2450 MHz Antenna Main Bluetooth Off Prescan 07-09-06.da4](#)

DUT: Fujitsu Tablet Chalice with Golan 11abg and Bluetooth; Type: 3945 ABG; Serial: Host: R6700003

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

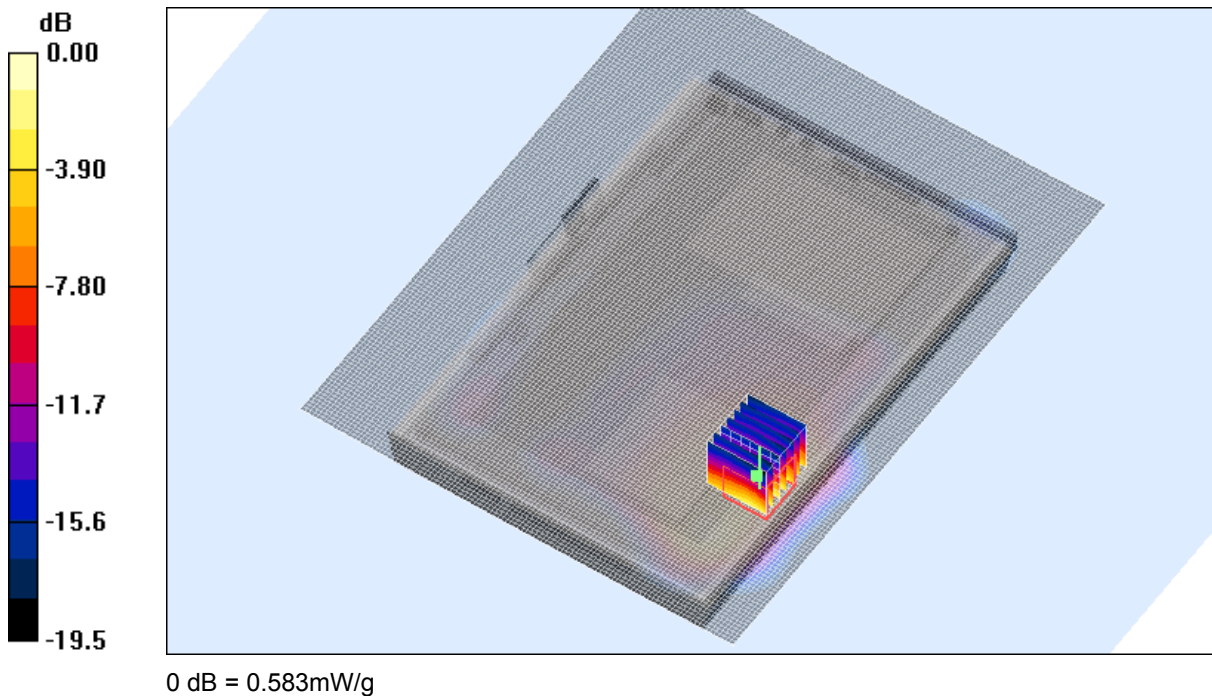
\* Medium parameters used:  $\sigma = 1.92466$  mho/m,  $\epsilon_r = 50.9628$ ;  $\rho = 1000$  kg/m<sup>3</sup>

- 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 (111x141x1):** Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.507 mW/g



SAR MEASUREMENT PLOT 2

Ambient Temperature  
Liquid Temperature  
Humidity

20.3 Degrees Celsius  
20.0 Degrees Celsius  
41.0 %

Test Date: 06 September 2006

File Name: [Arm Held DSSS 2450 MHz Antenna Aux Bluetooth Off 06-09-06.da4](#)

DUT: Fujitsu Tablet Chalice with Golan 11abg and Bluetooth; Type: 3945 ABG; Serial: Host: R6700003

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

\* Medium parameters used:  $\sigma = 1.88656$  mho/m,  $\epsilon_r = 50.8563$ ;  $\rho = 1000$  kg/m<sup>3</sup>

- 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) = 0.321 mW/g

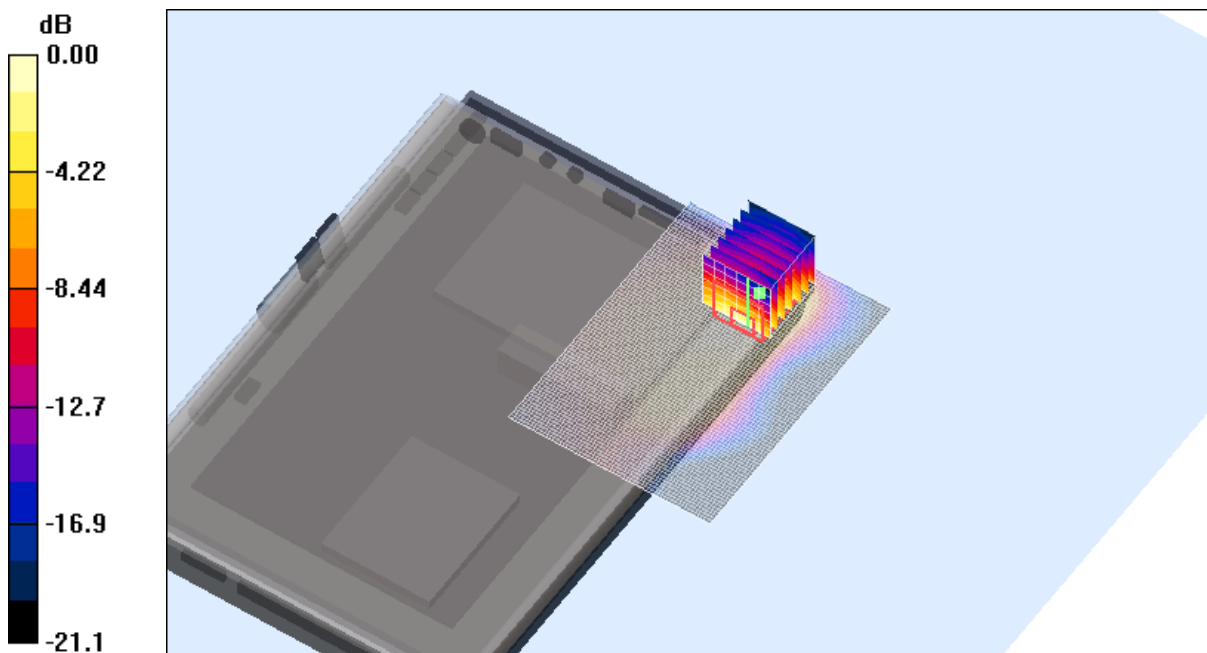
**Channel 1 Test/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 12.9 V/m; Power Drift = -0.089 dB

Peak SAR (extrapolated) = 0.603 W/kg

**SAR(1 g) = 0.242 mW/g; SAR(10 g) = 0.130 mW/g**

Maximum value of SAR (measured) = 0.269 mW/g



0 dB = 0.269mW/g

**SAR MEASUREMENT PLOT 3**

Ambient Temperature  
Liquid Temperature  
Humidity

20.2 Degrees Celsius  
19.8 Degrees Celsius  
43.0 %

Test Date: 06 September 2006

File Name: [Arm Held DSSS 2450 MHz Antenna Aux Bluetooth Off 06-09-06.da4](#)

DUT: Fujitsu Tablet Chalice with Golan 11abg and Bluetooth; Type: 3945 ABG; Serial: Host: R6700003

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

\* Medium parameters used:  $\sigma = 1.92741$  mho/m,  $\epsilon_r = 50.7612$ ;  $\rho = 1000$  kg/m<sup>3</sup>

- 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) = 0.575 mW/g

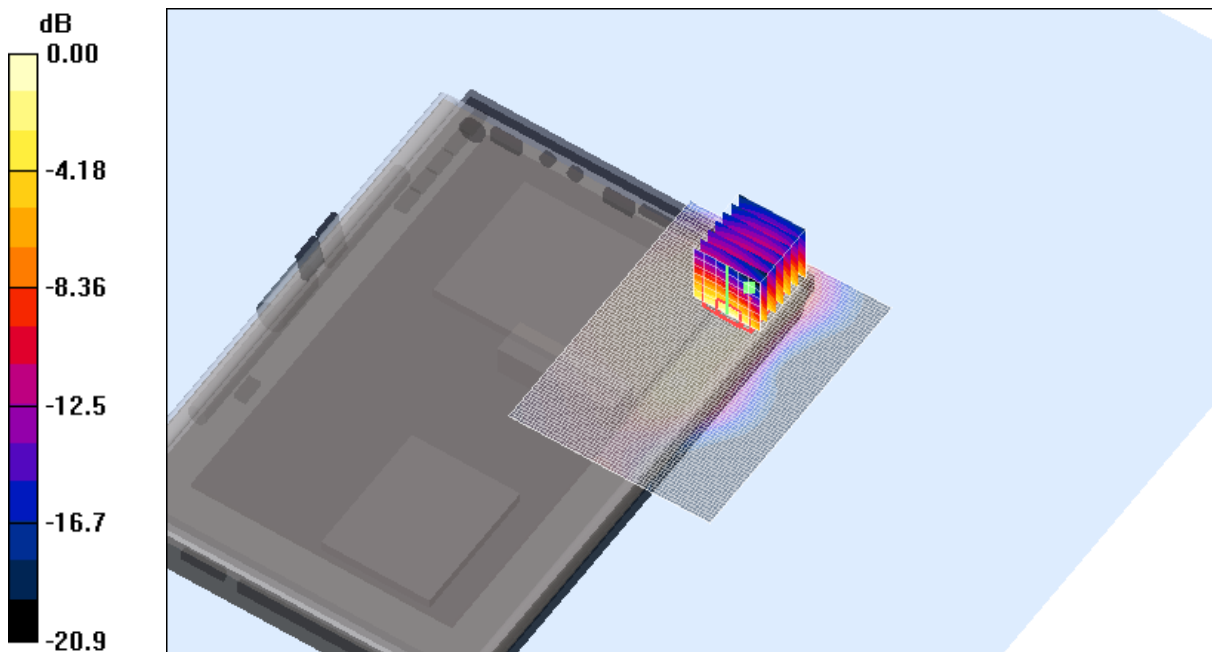
**Channel 6 Test/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 14.1 V/m; Power Drift = -0.496 dB

Peak SAR (extrapolated) = 1.08 W/kg

**SAR(1 g) = 0.440 mW/g; SAR(10 g) = 0.228 mW/g**

Maximum value of SAR (measured) = 0.481 mW/g



0 dB = 0.481mW/g

**SAR MEASUREMENT PLOT 4**

Ambient Temperature  
Liquid Temperature  
Humidity

20.2 Degrees Celsius  
19.8 Degrees Celsius  
43.0 %



Test Date: 06 September 2006

File Name: [Arm Held DSSS 2450 MHz Antenna Aux Bluetooth Off 06-09-06.da4](#)

DUT: Fujitsu Tablet Chalice with Golan 11abg and Bluetooth; Type: 3945 ABG; Serial: Host: R6700003

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

\* Medium parameters used:  $\sigma = 1.96911$  mho/m,  $\epsilon_r = 50.6287$ ;  $\rho = 1000$  kg/m<sup>3</sup>

- 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) = 0.659 mW/g

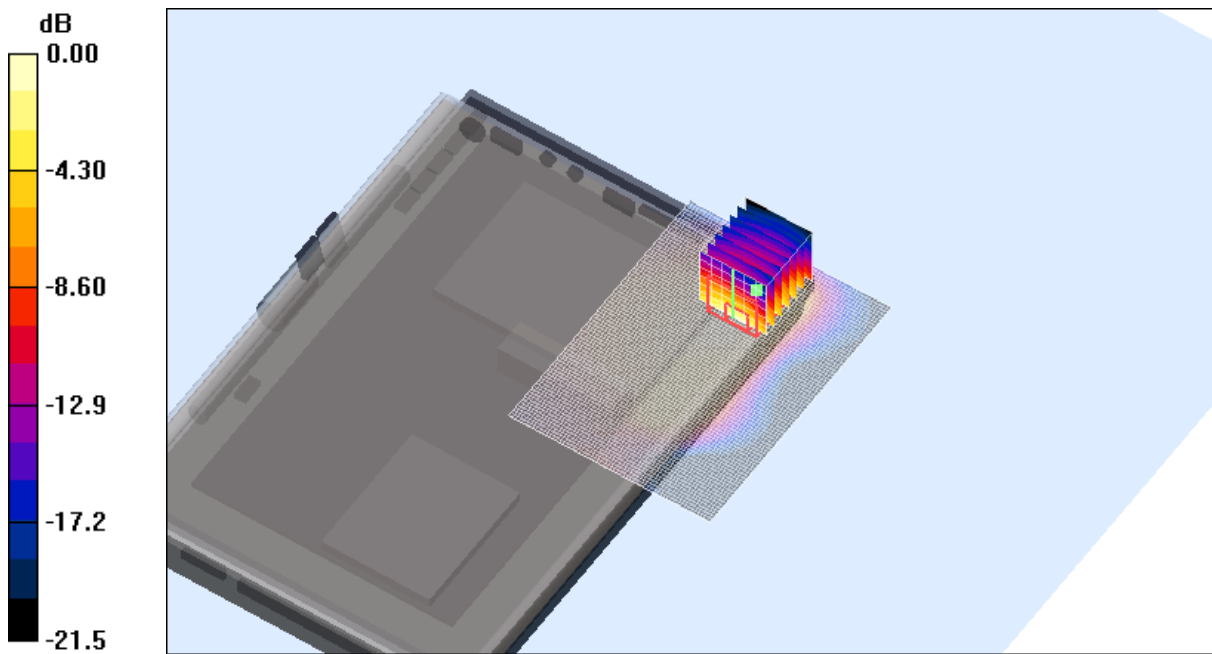
**Channel 11 Test/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 17.2 V/m; Power Drift = -0.310 dB

Peak SAR (extrapolated) = 1.23 W/kg

**SAR(1 g) = 0.464 mW/g; SAR(10 g) = 0.249 mW/g**

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



0 dB = 0.537mW/g

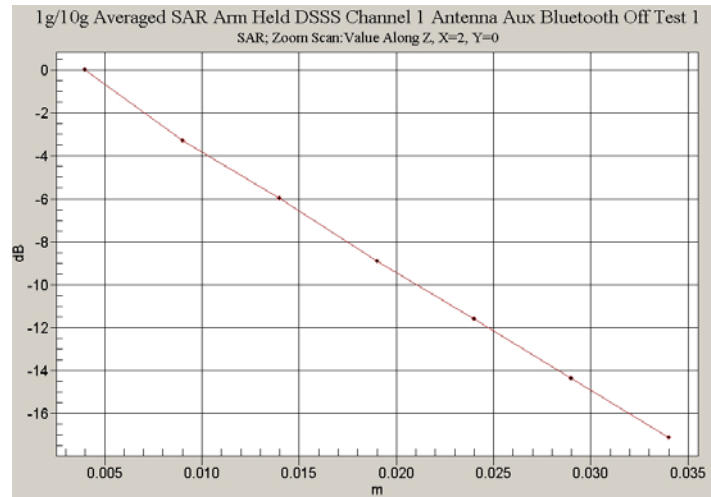
**SAR MEASUREMENT PLOT 5**

Ambient Temperature  
Liquid Temperature  
Humidity

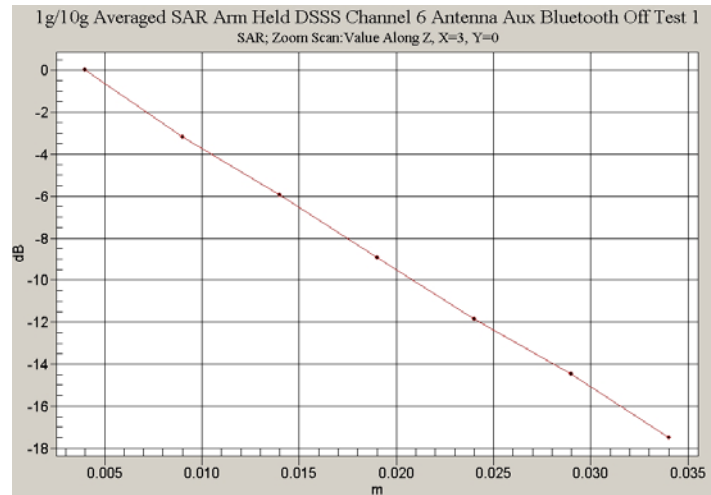
20.2 Degrees Celsius  
19.8 Degrees Celsius  
43.0 %



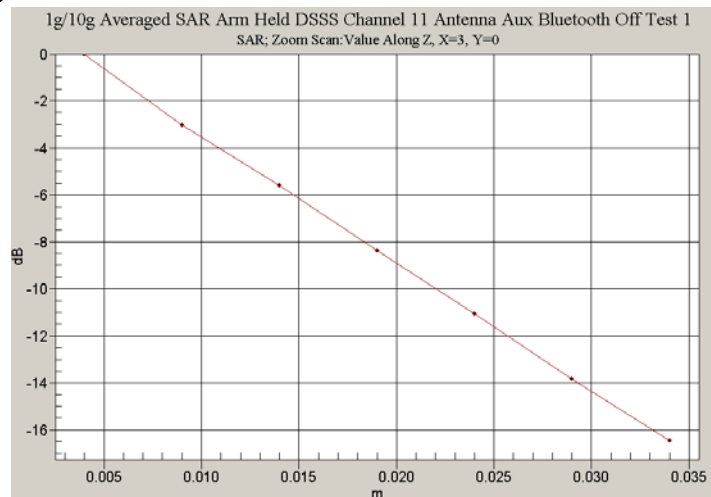
Z-Axis Graph for Plot 3



Z-Axis Graph for Plot 4



Z-Axis Graph for Plot 5



Test Date: 06 September 2006

File Name: [Arm Held DSSS 2450 MHz Antenna Main Bluetooth Off 06-09-06.da4](#)

DUT: Fujitsu Tablet Chalice with Golan 11abg and Bluetooth; Type: 3945 ABG; Serial: Host: R6700003

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

\* Medium parameters used:  $\sigma = 1.88656$  mho/m,  $\epsilon_r = 50.8563$ ;  $\rho = 1000$  kg/m<sup>3</sup>

- 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) = 0.254 mW/g

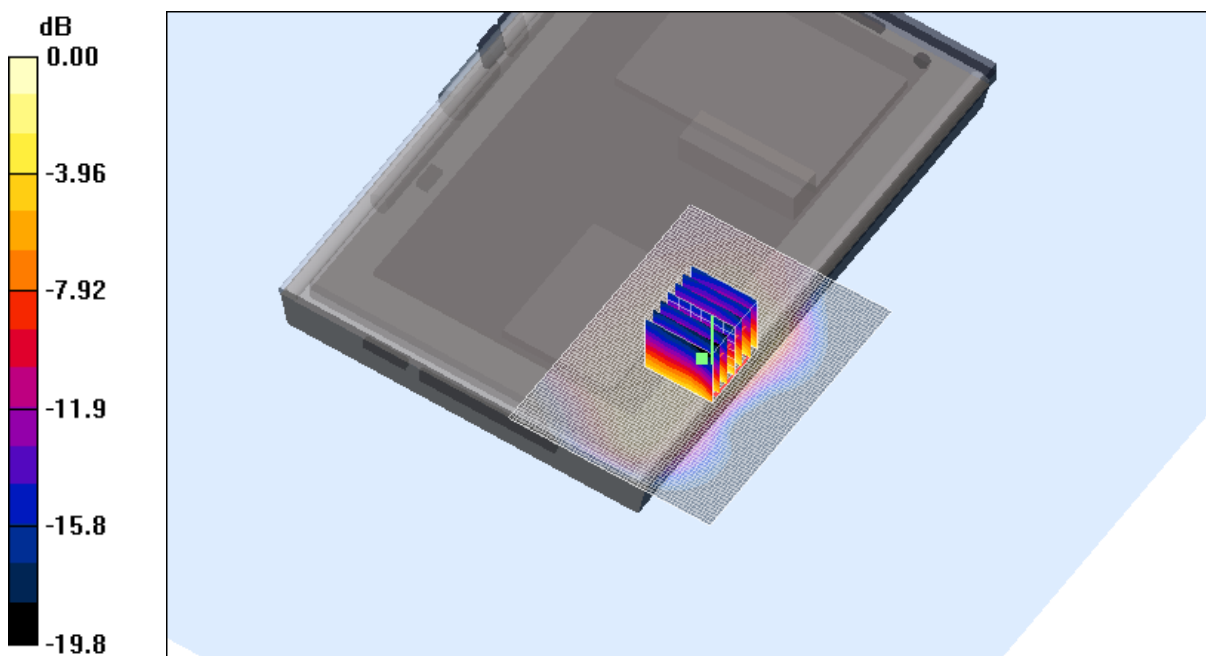
**Channel 1 Test/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 10.2 V/m; Power Drift = -0.086 dB

Peak SAR (extrapolated) = 0.550 W/kg

**SAR(1 g) = 0.236 mW/g; SAR(10 g) = 0.113 mW/g**

Maximum value of SAR (measured) = 0.265 mW/g



SAR MEASUREMENT PLOT 6

Ambient Temperature  
Liquid Temperature  
Humidity

20.2 Degrees Celsius  
19.8 Degrees Celsius  
43.0 %

Test Date: 06 September 2006

File Name: [Arm Held DSSS 2450 MHz Antenna Main Bluetooth Off 06-09-06.da4](#)

DUT: Fujitsu Tablet Chalice with Golan 11abg and Bluetooth; Type: 3945 ABG; Serial: Host: R6700003

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

\* Medium parameters used:  $\sigma = 1.92741$  mho/m,  $\epsilon_r = 50.7612$ ;  $\rho = 1000$  kg/m<sup>3</sup>

- 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) = 0.465 mW/g

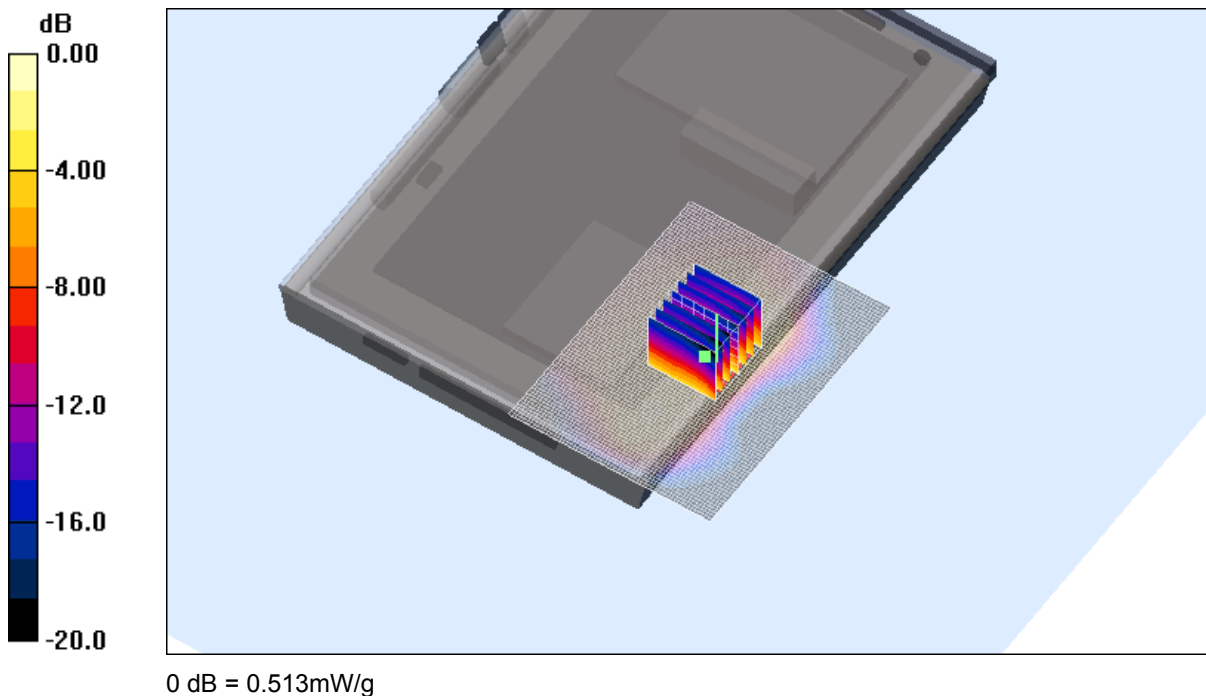
**Channel 6 Test/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 14.4 V/m; Power Drift = -0.190 dB

Peak SAR (extrapolated) = 1.09 W/kg

**SAR(1 g) = 0.463 mW/g; SAR(10 g) = 0.221 mW/g**

Maximum value of SAR (measured) = 0.513 mW/g



**SAR MEASUREMENT PLOT 7**

Ambient Temperature  
Liquid Temperature  
Humidity

20.2 Degrees Celsius  
19.8 Degrees Celsius  
43.0 %

Test Date: 06 September 2006

File Name: [Arm Held DSSS 2450 MHz Antenna Main Bluetooth Off 06-09-06.da4](#)

DUT: Fujitsu Tablet Chalice with Golan 11abg and Bluetooth; Type: 3945 ABG; Serial: Host: R6700003

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

\* Medium parameters used:  $\sigma = 1.96911$  mho/m,  $\epsilon_r = 50.6287$ ;  $\rho = 1000$  kg/m<sup>3</sup>

- 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) = 0.595 mW/g

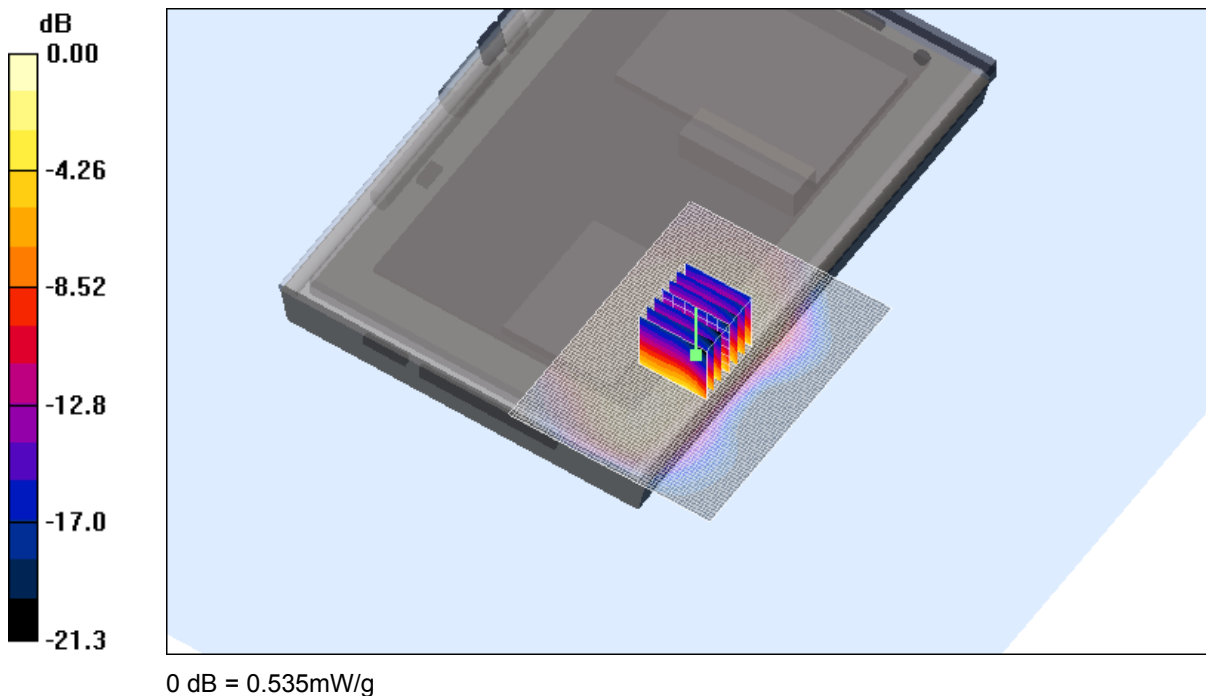
**Channel 11 Test/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 13.5 V/m; Power Drift = -0.240 dB

Peak SAR (extrapolated) = 1.18 W/kg

**SAR(1 g) = 0.491 mW/g; SAR(10 g) = 0.232 mW/g**

Maximum value of SAR (measured) = 0.535 mW/g

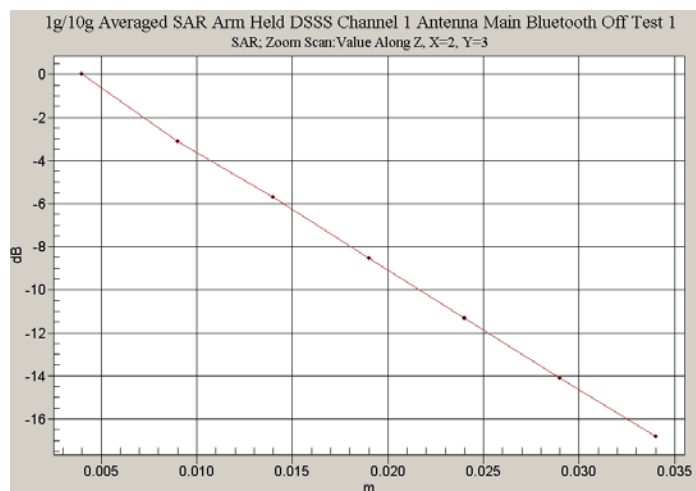


**SAR MEASUREMENT PLOT 8**

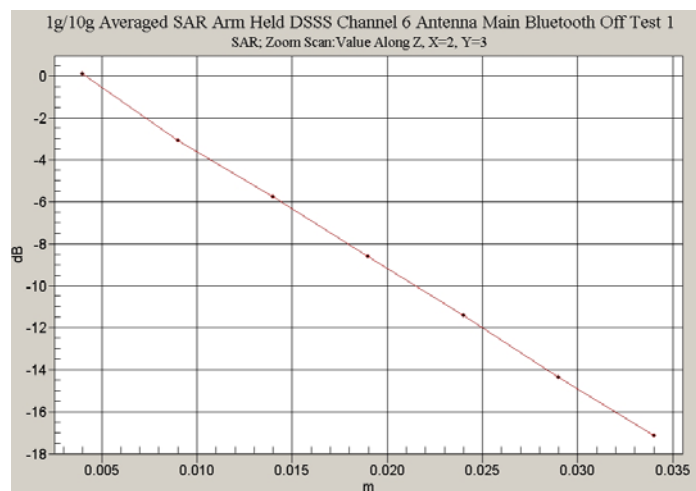
Ambient Temperature  
Liquid Temperature  
Humidity

20.2 Degrees Celsius  
19.8 Degrees Celsius  
43.0 %

Z-Axis Graph for Plot 6



Z-Axis Graph for Plot 7



Z-Axis Graph for Plot 8

