

Test Date: 09 August 2006

File Name: [Tablet OFDM 2.45 GHz Antenna A Bluetooth Off 09-08-06.da4](#)

DUT: Fujitsu Tablet Osian with Atheros XB62 11abg Module; Type: XB62; Serial: MAC:0011F5-D82570

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

\* Medium parameters used:  $\sigma = 1.98489$  mho/m,  $\epsilon_r = 50.7729$ ;  $\rho = 1000$  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 06 Test/Area Scan (101x81x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.22 mW/g

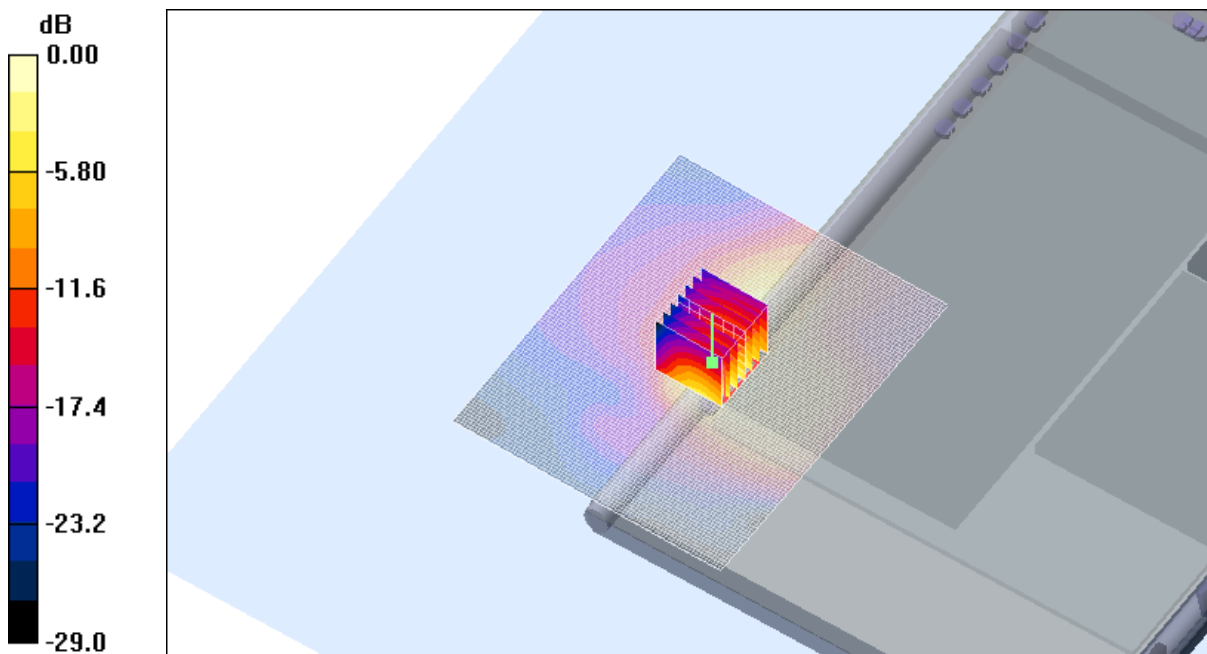
**Channel 06 Test/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 17.4 V/m; Power Drift = -0.164 dB

Peak SAR (extrapolated) = 2.66 W/kg

**SAR(1 g) = 1.07 mW/g; SAR(10 g) = 0.480 mW/g**

Maximum value of SAR (measured) = 1.20 mW/g



0 dB = 1.20mW/g

**SAR MEASUREMENT PLOT 20**

Ambient Temperature  
Liquid Temperature  
Humidity

20.4 Degrees Celsius  
19.9 Degrees Celsius  
36.0 %

Test Date: 09 August 2006

File Name: [Arm Held OFDM 2.45 GHz Antenna B Bluetooth Off 09-08-06.da4](#)

DUT: Fujitsu Tablet Osian with Atheros XB62 11abg Module; Type: XB62; Serial: MAC:0011F5-D82570

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

\* Medium parameters used:  $\sigma = 1.98489$  mho/m,  $\epsilon_r = 50.7729$ ;  $\rho = 1000$  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 06 Test/Area Scan (81x61x1):** Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.615 mW/g

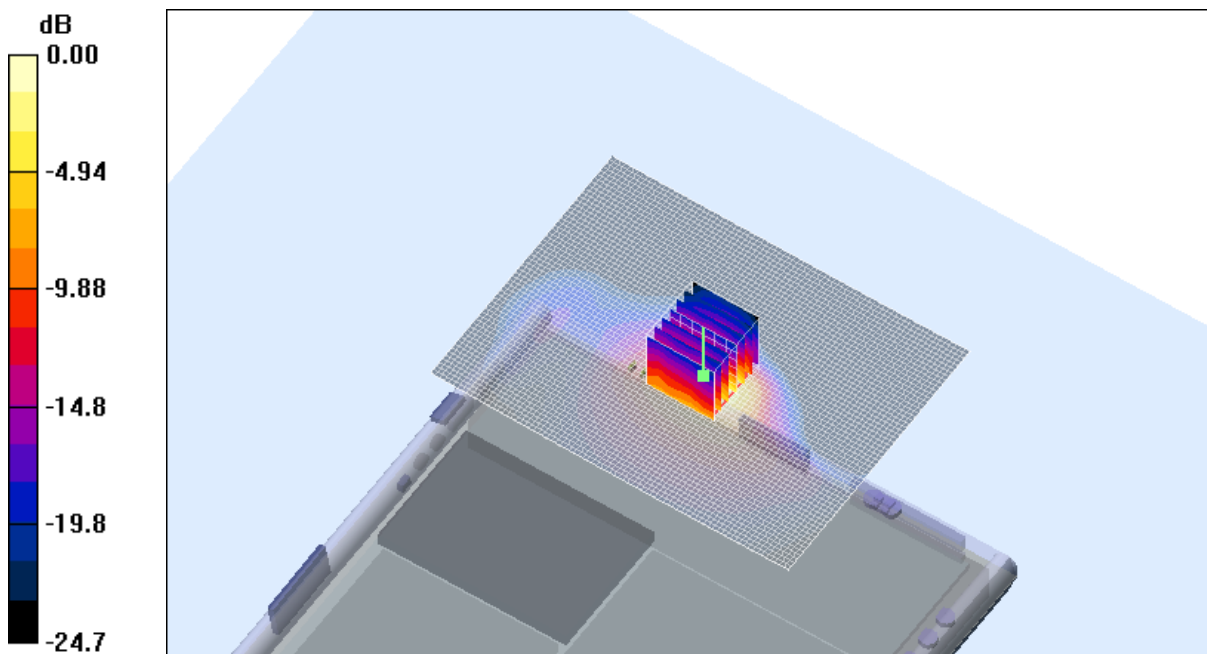
**Channel 06 Test/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 15.8 V/m; Power Drift = 0.081 dB

Peak SAR (extrapolated) = 1.80 W/kg

**SAR(1 g) = 0.607 mW/g; SAR(10 g) = 0.224 mW/g**

Maximum value of SAR (measured) = 0.694 mW/g



0 dB = 0.694mW/g

**SAR MEASUREMENT PLOT 21**

Ambient Temperature  
Liquid Temperature  
Humidity

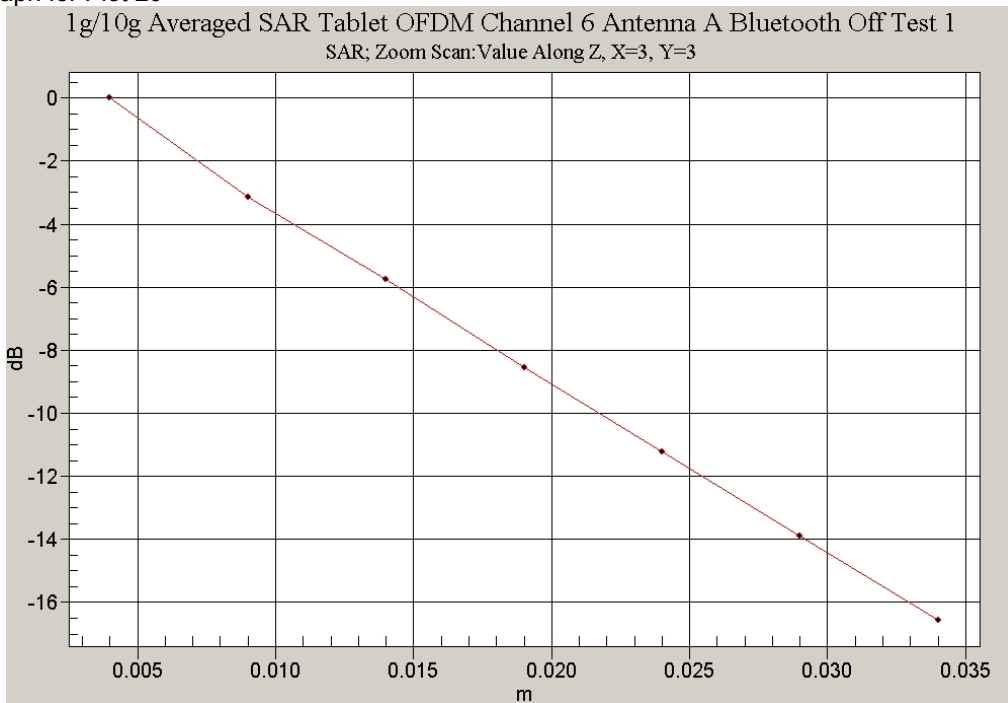
20.4 Degrees Celsius  
19.9 Degrees Celsius  
36.0 %



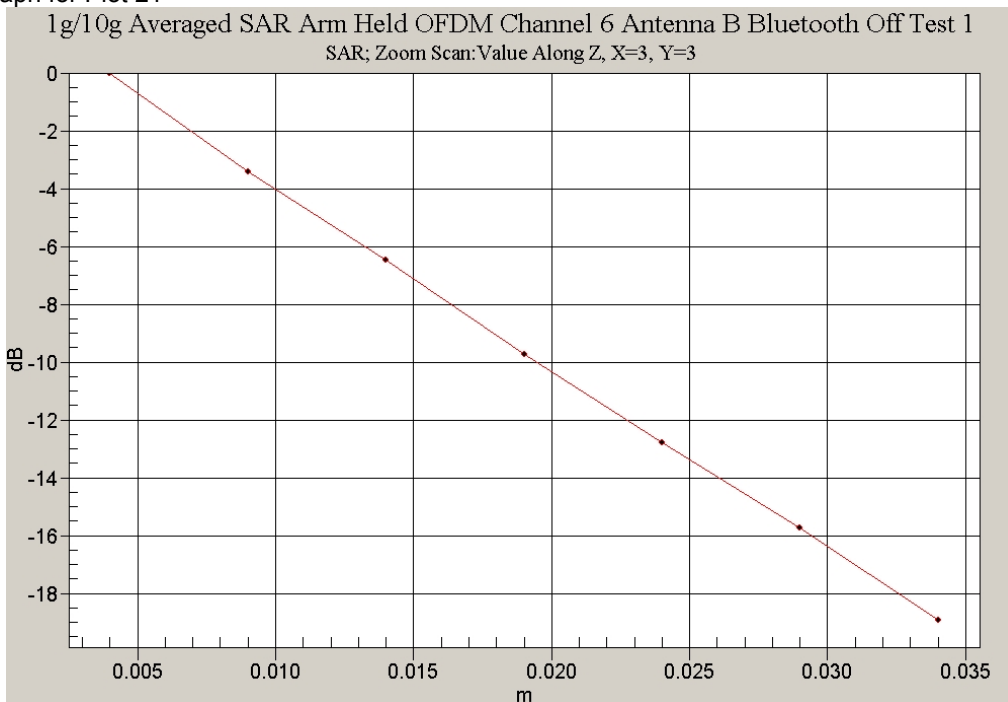
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Z-Axis Graph for Plot 20



Z-Axis Graph for Plot 21



Test Date: 09 August 2006

File Name: [Validation 2450 MHz \(DAE442 Probe1377\) 09-08-06.da4](#)

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

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

\* Medium parameters used:  $\sigma = 1.8436$  mho/m,  $\epsilon_r = 40.0746$ ;  $\rho = 1000$  kg/m<sup>3</sup>

- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1377; ConvF(4.49, 4.49, 4.49)

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

**Channel 1 Test/Area Scan (51x51x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 17.6 mW/g

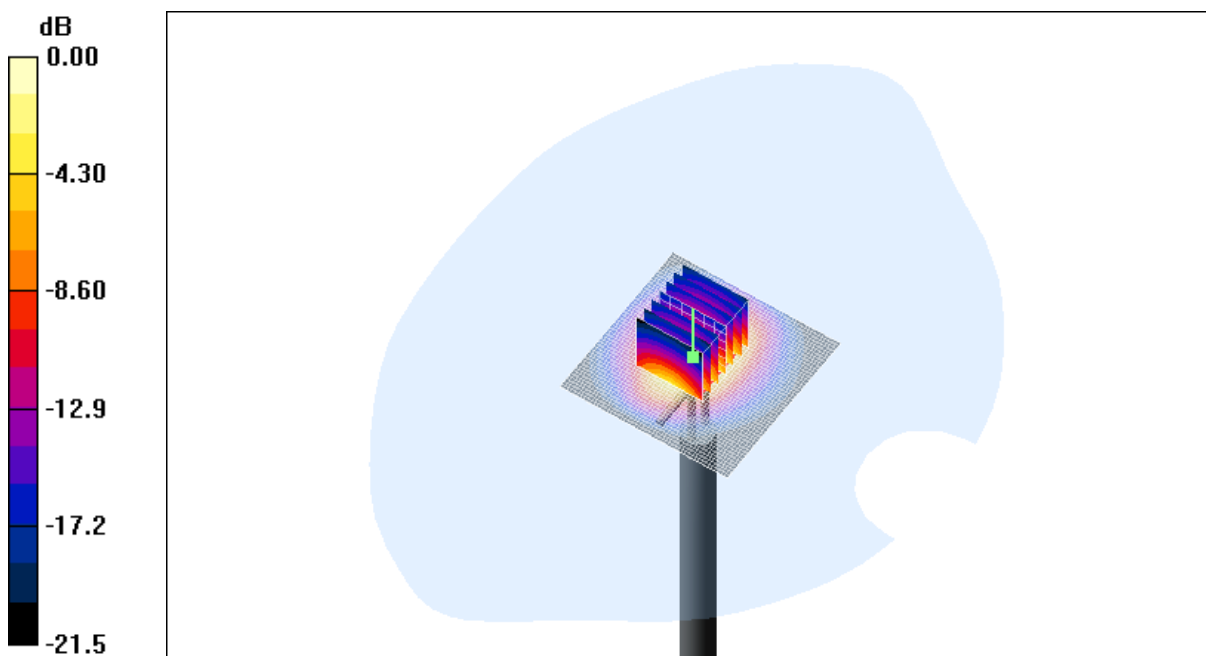
**Channel 1 Test/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 95.4 V/m; Power Drift = 0.031 dB

Peak SAR (extrapolated) = 29.3 W/kg

**SAR(1 g) = 13.7 mW/g; SAR(10 g) = 6.5 mW/g**

Maximum value of SAR (measured) = 15.2 mW/g



0 dB = 15.2mW/g

**SAR MEASUREMENT PLOT 22**

Ambient Temperature  
Liquid Temperature  
Humidity

20.4 Degrees Celsius  
19.9 Degrees Celsius  
36.0 %

Test Date: 10 August 2006

File Name: [Validation 2450 MHz \(DAE442 Probe1377\) 10-08-06.da4](#)

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

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

\* Medium parameters used:  $\sigma = 1.78896$  mho/m,  $\epsilon_r = 40.3865$ ;  $\rho = 1000$  kg/m<sup>3</sup>

- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1377; ConvF(4.49, 4.49, 4.49)

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

**Channel 1 Test/Area Scan (51x51x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 17.0 mW/g

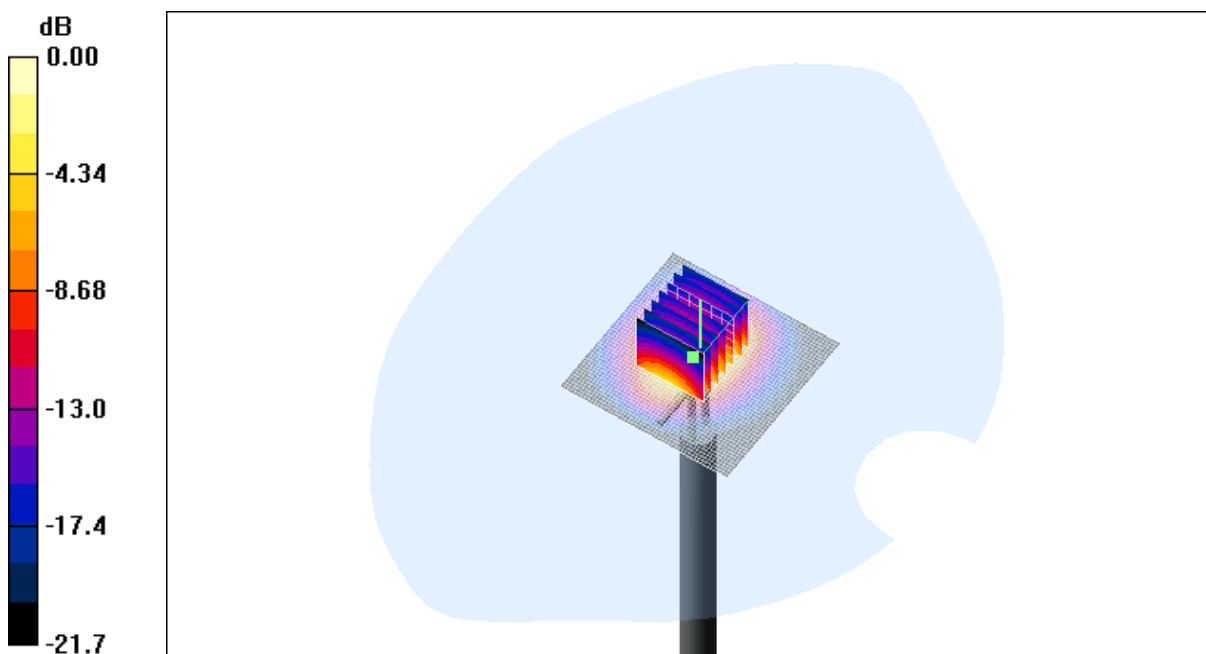
**Channel 1 Test/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 95.1 V/m; Power Drift = 0.013 dB

Peak SAR (extrapolated) = 29.5 W/kg

**SAR(1 g) = 13.7 mW/g; SAR(10 g) = 6.48 mW/g**

Maximum value of SAR (measured) = 15.2 mW/g

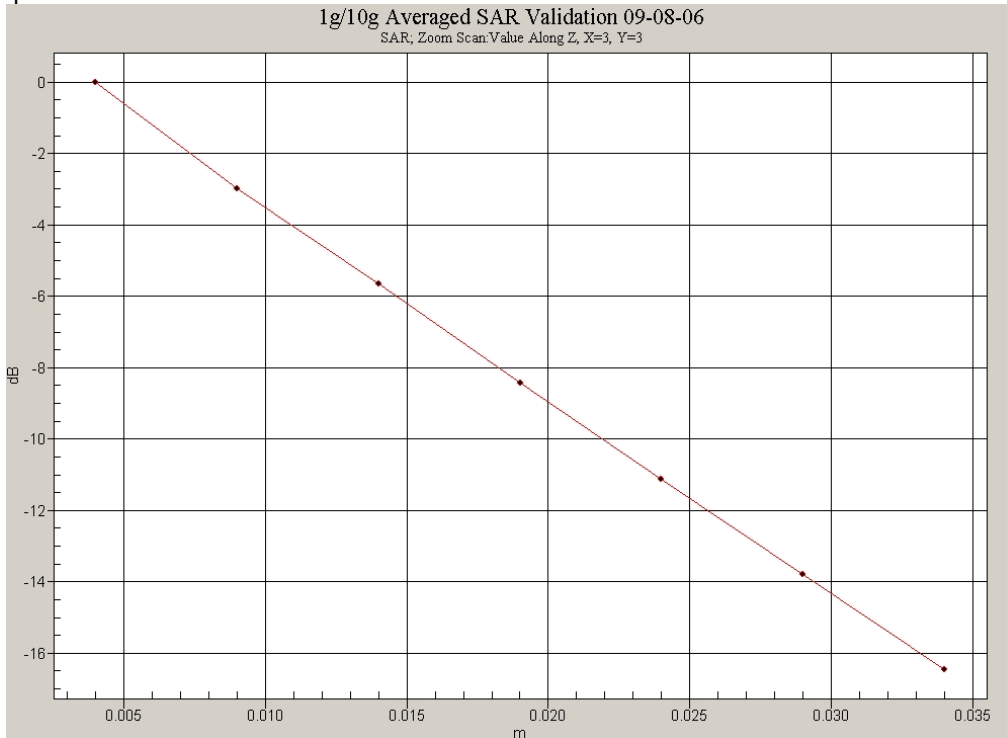


SAR MEASUREMENT PLOT 23

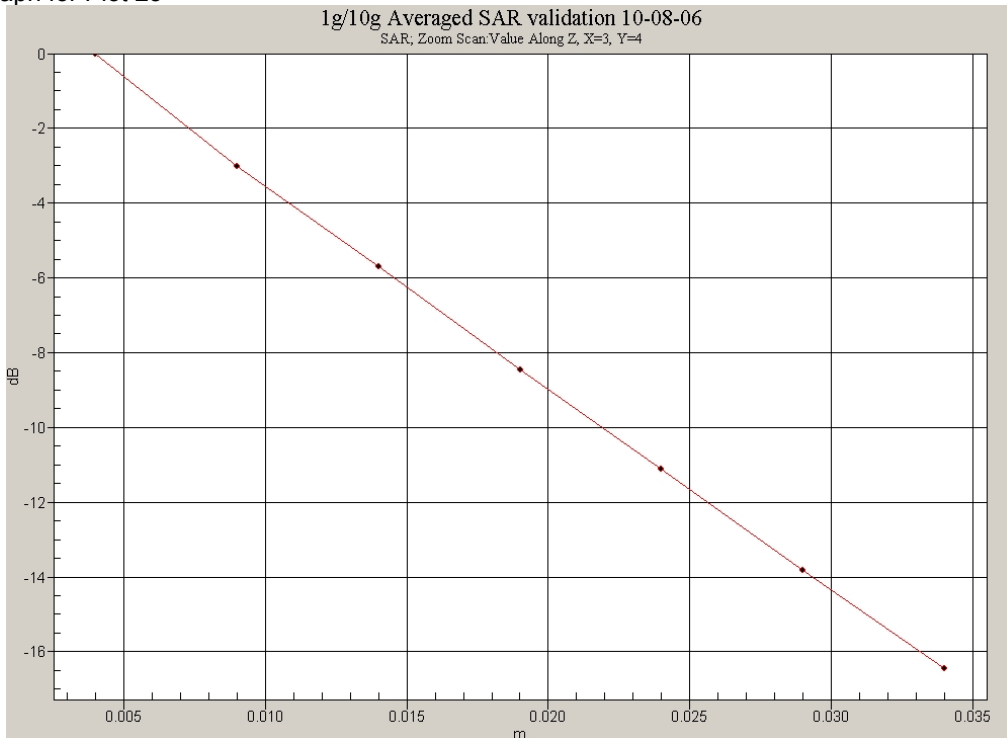
Ambient Temperature  
Liquid Temperature  
Humidity

20.2 Degrees Celsius  
19.9 Degrees Celsius  
37.0 %

Z-Axis Graph for Plot 22



Z-Axis Graph for Plot 23



## APPENDIX C PLOTS OF THE 5800MHZ SAR MEASUREMENTS

**Table 33: 5800 MHz Band SAR Measurement Plot Numbers**

<b>Plot 24</b>	Lap Arm Held Position – Ant B	CH#149
<b>Plot 25</b>	Lap Arm Held Position – Ant B	CH#157
<b>Plot 26</b>	Lap Arm Held Position – Ant B	CH#165
<b>Z-axis graphs</b>	Z-Axis graphs for Plots 24 to 26	
<b>Plot 27</b>	Tablet – Ant A	CH#149
<b>Plot 28</b>	Tablet – Ant A	CH#157
<b>Plot 29</b>	Tablet – Ant A	CH#165
<b>Z-axis graphs</b>	Z-Axis graphs for Plots 27 to 29	
<b>Plot 30</b>	Edge On – Ant A	CH#149
<b>Plot 31</b>	Edge On – Ant A	CH#157
<b>Plot 32</b>	Edge On – Ant A	CH#165
<b>Z-axis graphs</b>	Z-Axis graphs for Plots 30 to 32	
<b>Plot 33</b>	Edge On – Ant B	CH#149
<b>Plot 34</b>	Edge On – Ant B	CH#157
<b>Plot 35</b>	Edge On – Ant B	CH#165
	WLAN with Bluetooth On	
<b>Plot 36</b>	Lap Arm Held Position With Blue tooth Ant B	CH#149
<b>Plot 37</b>	Tablet Position With Blue tooth Ant A	CH#165
<b>Z-axis graphs</b>	Z-Axis graphs for Plots 36 to 37	
<b>Plot 38</b>	Edge On Position With Blue tooth Ant A	CH#165
<b>Plot 39</b>	Edge On Position With Blue tooth Ant B	CH#149
<b>Z-axis graphs</b>	Z-Axis graphs for Plots 38 to 39	

**Table 34: 5GHz Validation Plot**

<b>Plot 40</b>	Validation 5800 MHz 11 <sup>th</sup> August 2006
<b>Plot 41</b>	Validation 5800 MHz 14 <sup>th</sup> August 2006
<b>Plot 42</b>	Validation 5800 MHz 15 <sup>th</sup> August 2006
<b>Z-Axis Graphs</b>	Z-Axis graphs for Plots 40 to 42



Test Date: 15 August 2006

File Name: [Arm Held OFDM 5.6 GHz Antenna B Bluetooth Off 15-08-06.da4](#)

DUT: Fujitsu Tablet Osian with Atheros XB62 11abg Module; Type: XB62; Serial: MAC:0011F5-D82570

\* Communication System: OFDM 5770 MHz; Frequency: 5745 MHz; Duty Cycle: 1:1

\* Medium parameters used:  $\sigma = 6.25028$  mho/m,  $\epsilon_r = 46.1545$ ;  $\rho = 1000$  kg/m<sup>3</sup>

- Electronics: DAE3 Sn442; Probe: EX3DV4 - SN3563; ConvF(3.64, 3.64, 3.64)

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

**Channel 149 Test/Area Scan (161x121x1):** Measurement grid: dx=10mm, dy=10mm  
Maximum value of SAR (interpolated) = 3.43 mW/g

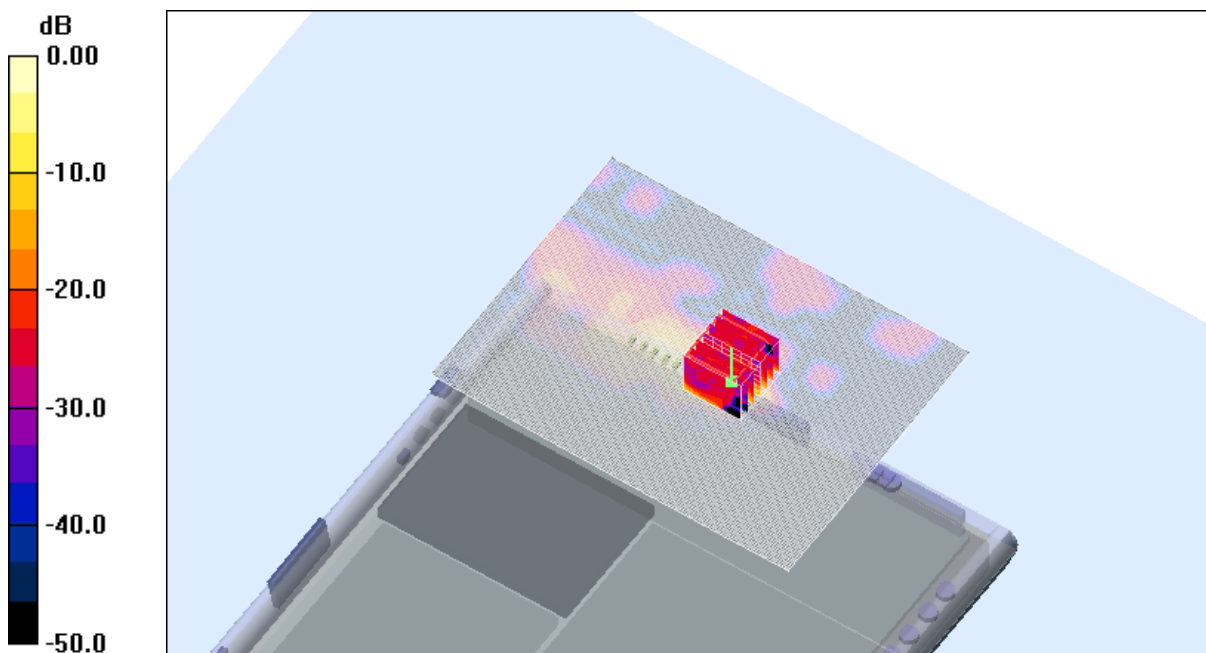
**Channel 149 Test/Zoom Scan (7x7x8)/Cube 0:** Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 23.7 V/m; Power Drift = -0.127 dB

Peak SAR (extrapolated) = 8.39 W/kg

**SAR(1 g) = 1.53 mW/g; SAR(10 g) = 0.331 mW/g**

Maximum value of SAR (measured) = 3.54 mW/g



0 dB = 3.54mW/g

**SAR MEASUREMENT PLOT 24**

Ambient Temperature  
Liquid Temperature  
Humidity

20.4 Degrees Celsius  
19.9 Degrees Celsius  
41.0 %

Test Date: 15 August 2006

File Name: [Arm Held OFDM 5.6 GHz Antenna B Bluetooth Off 15-08-06.da4](#)

DUT: Fujitsu Tablet Osian with Atheros XB62 11abg Module; Type: XB62; Serial: MAC:0011F5-D82570

\* Communication System: OFDM 5770 MHz; Frequency: 5785 MHz; Duty Cycle: 1:1

\* Medium parameters used:  $\sigma = 6.32477$  mho/m,  $\epsilon_r = 46.0159$ ;  $\rho = 1000$  kg/m<sup>3</sup>

- Electronics: DAE3 Sn442; Probe: EX3DV4 - SN3563; ConvF(3.64, 3.64, 3.64)

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

**Channel 157 Test/Area Scan (161x121x1):** Measurement grid: dx=10mm, dy=10mm  
 Maximum value of SAR (interpolated) = 1.62 mW/g

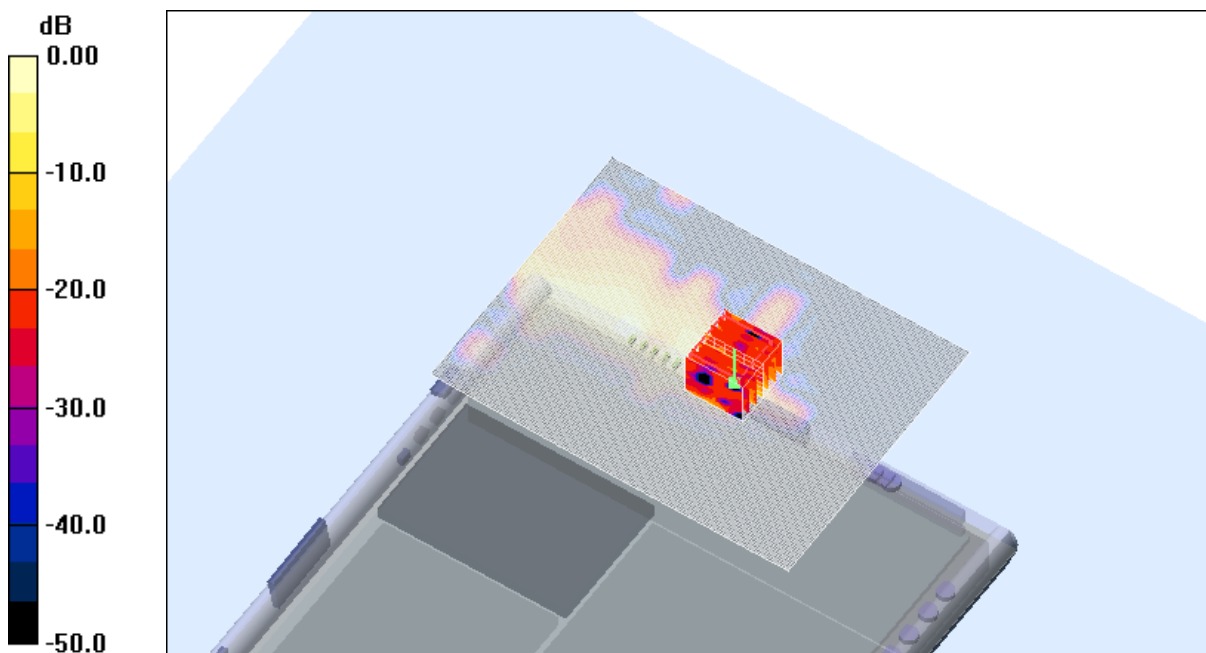
**Channel 157 Test/Zoom Scan (7x7x8)/Cube 0:** Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 16.1 V/m; Power Drift = 0.376 dB

Peak SAR (extrapolated) = 3.62 W/kg

**SAR(1 g) = 0.653 mW/g; SAR(10 g) = 0.147 mW/g**

Maximum value of SAR (measured) = 1.57 mW/g



0 dB = 1.57mW/g

**SAR MEASUREMENT PLOT 25**

Ambient Temperature  
 Liquid Temperature  
 Humidity

20.4 Degrees Celsius  
 19.9 Degrees Celsius  
 41.0 %

Test Date: 15 August 2006

File Name: [Arm Held OFDM 5.6 GHz Antenna B Bluetooth Off 15-08-06.da4](#)

DUT: Fujitsu Tablet Osian with Atheros XB62 11abg Module; Type: XB62; Serial: MAC:0011F5-D82570

\* Communication System: OFDM 5770 MHz; Frequency: 5825 MHz; Duty Cycle: 1:1

\* Medium parameters used:  $\sigma = 6.38915$  mho/m,  $\epsilon_r = 45.8694$ ;  $\rho = 1000$  kg/m<sup>3</sup>

- Electronics: DAE3 Sn442; Probe: EX3DV4 - SN3563; ConvF(3.64, 3.64, 3.64)

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

**Channel 165 Test/Area Scan (161x121x1):** Measurement grid: dx=10mm, dy=10mm  
 Maximum value of SAR (interpolated) = 2.70 mW/g

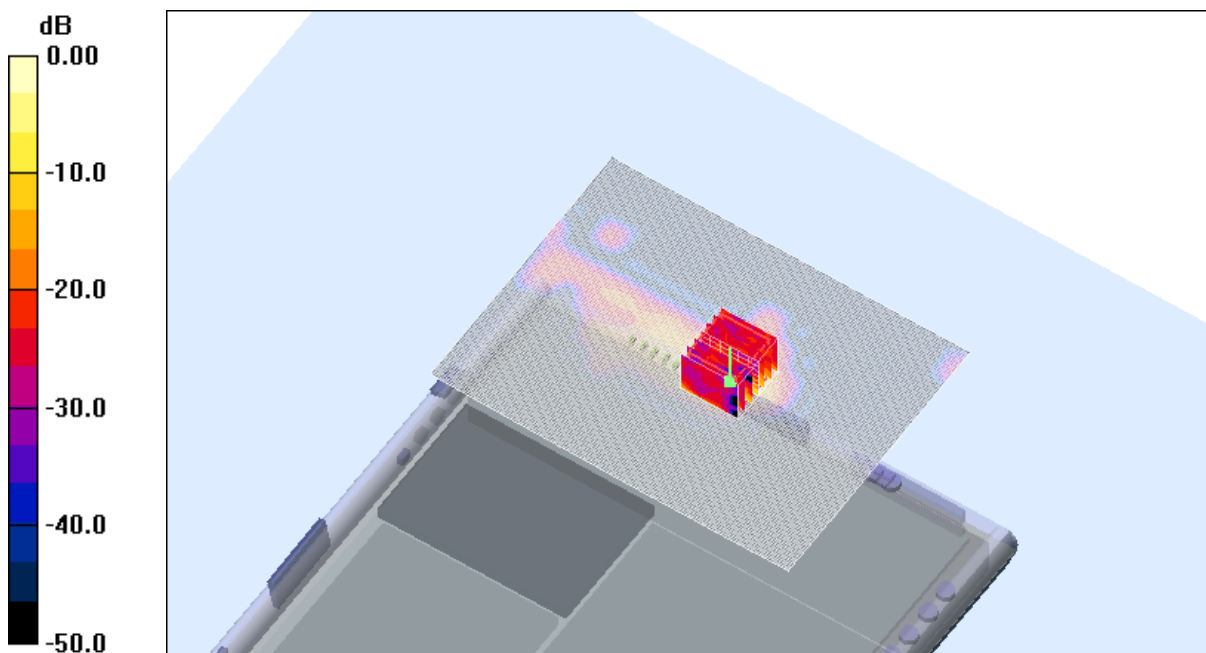
**Channel 165 Test/Zoom Scan (7x7x8)/Cube 0:** Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 17.7 V/m; Power Drift = 0.201 dB

Peak SAR (extrapolated) = 7.08 W/kg

**SAR(1 g) = 1.28 mW/g; SAR(10 g) = 0.271 mW/g**

Maximum value of SAR (measured) = 3.04 mW/g



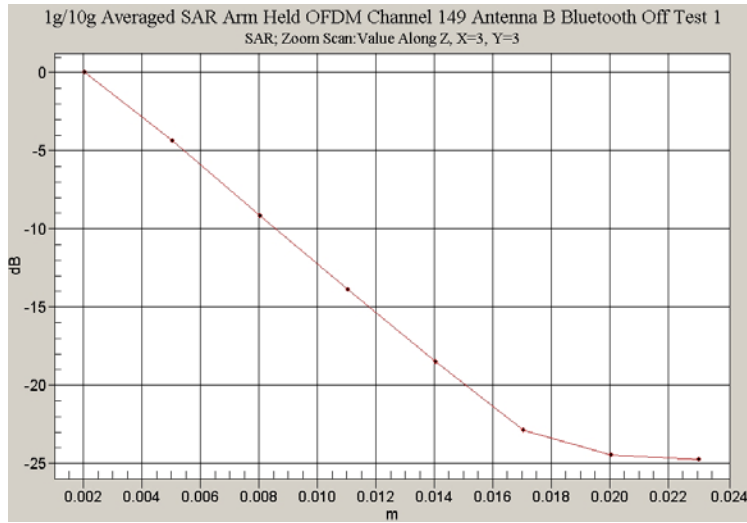
0 dB = 3.04mW/g

**SAR MEASUREMENT PLOT 26**

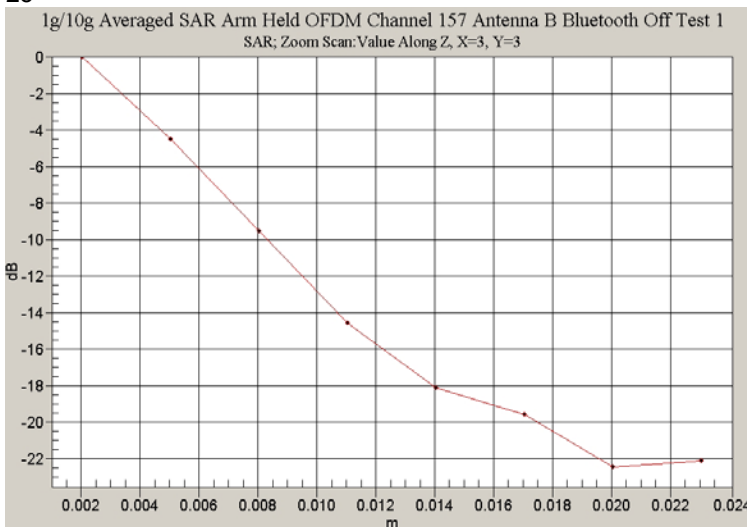
Ambient Temperature  
 Liquid Temperature  
 Humidity

20.4 Degrees Celsius  
 19.9 Degrees Celsius  
 41.0 %

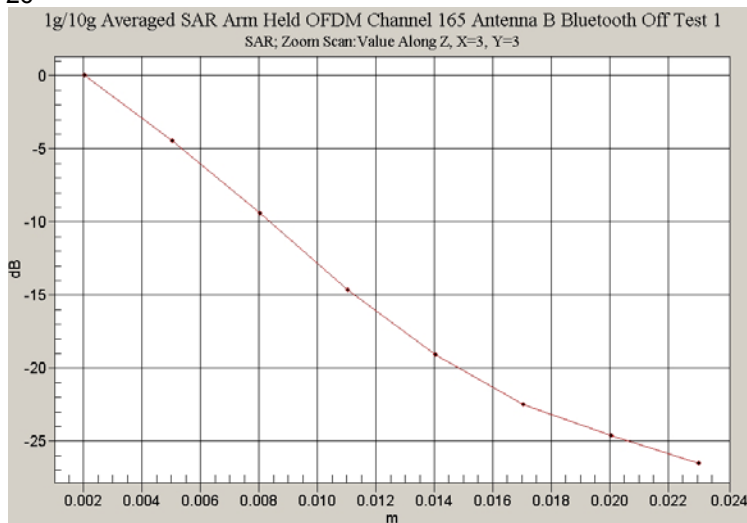
Z-Axis Graph for Plot 24



Z-Axis Graph for Plot 25



Z-Axis Graph for Plot 26



Test Date: 14 August 2006

File Name: [Tablet OFDM 5.6 GHz Antenna A Bluetooth Off 14-08-06.da4](#)

DUT: Fujitsu Tablet Osian with Atheros XB62 11abg Module; Type: XB62; Serial: MAC:0011F5-D82570

\* Communication System: OFDM 5770 MHz; Frequency: 5745 MHz; Duty Cycle: 1:1

\* Medium parameters used:  $\sigma = 6.13093$  mho/m,  $\epsilon_r = 46.3183$ ;  $\rho = 1000$  kg/m<sup>3</sup>

- Electronics: DAE3 Sn442; Probe: EX3DV4 - SN3563; ConvF(3.64, 3.64, 3.64)

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

**Channel 149 Test/Area Scan (161x121x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 1.24 mW/g

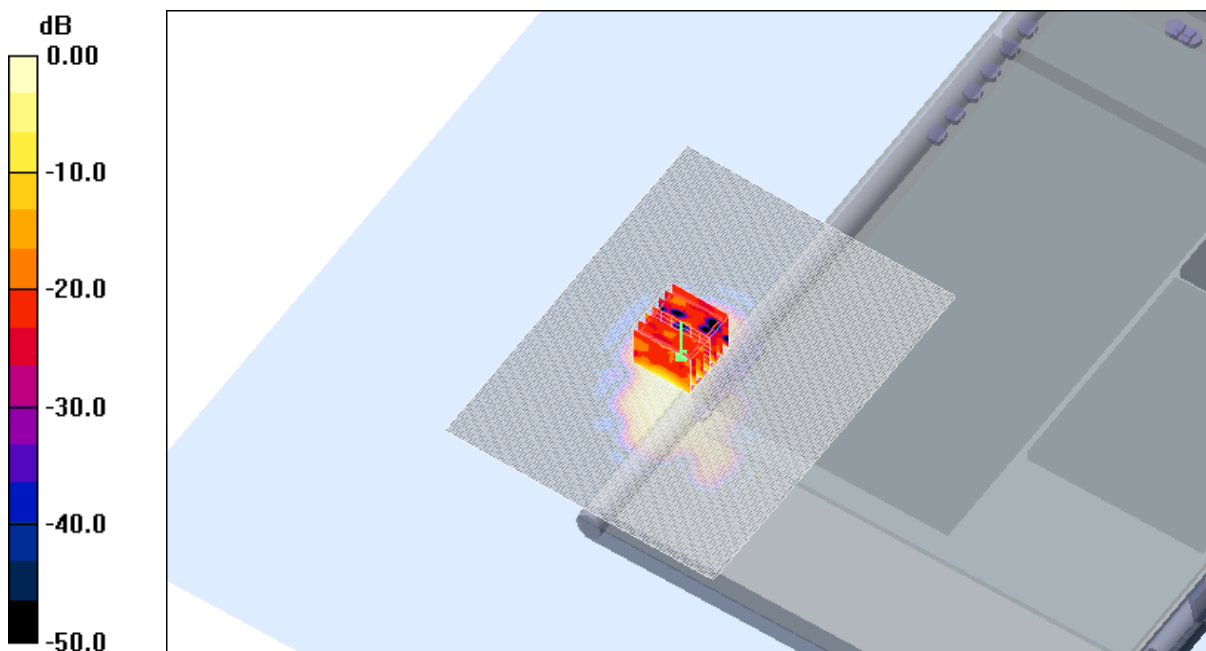
**Channel 149 Test/Zoom Scan (7x7x8)/Cube 0:** Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 15.7 V/m; Power Drift = -0.312 dB

Peak SAR (extrapolated) = 2.57 W/kg

**SAR(1 g) = 0.583 mW/g; SAR(10 g) = 0.143 mW/g**

Maximum value of SAR (measured) = 1.31 mW/g



0 dB = 1.31mW/g

**SAR MEASUREMENT PLOT 27**

Ambient Temperature

20.4 Degrees Celsius

Liquid Temperature

20.0 Degrees Celsius

Humidity

35.0 %

Test Date: 15 August 2006

File Name: [Tablet OFDM 5.6 GHz Antenna A Bluetooth Off 15-08-06.da4](#)

DUT: Fujitsu Tablet Osian with Atheros XB62 11abg Module; Type: XB62; Serial: MAC:0011F5-D82570

\* Communication System: OFDM 5770 MHz; Frequency: 5785 MHz; Duty Cycle: 1:1

\* Medium parameters used:  $\sigma = 6.32477$  mho/m,  $\epsilon_r = 46.0159$ ;  $\rho = 1000$  kg/m<sup>3</sup>

- Electronics: DAE3 Sn442; Probe: EX3DV4 - SN3563; ConvF(3.64, 3.64, 3.64)

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

**Channel 157 Test/Area Scan (161x121x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 1.37 mW/g

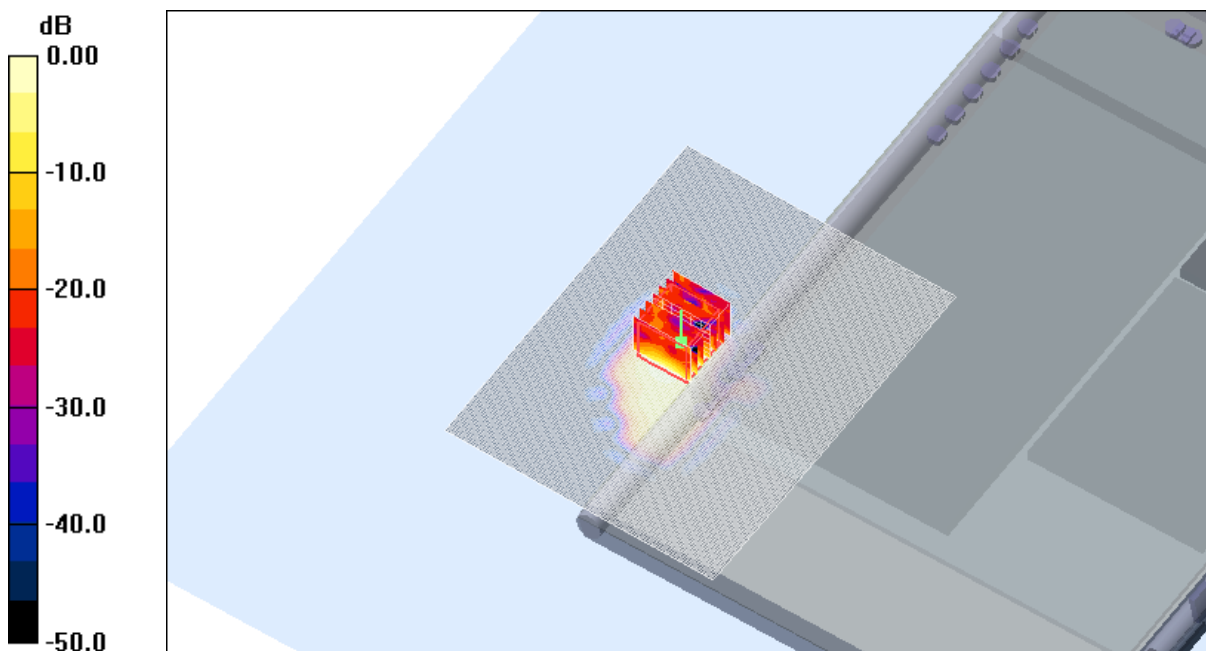
**Channel 157 Test/Zoom Scan (7x7x8)/Cube 0:** Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 16.0 V/m; Power Drift = 0.154 dB

Peak SAR (extrapolated) = 2.94 W/kg

**SAR(1 g) = 0.646 mW/g; SAR(10 g) = 0.159 mW/g**

Maximum value of SAR (measured) = 1.35 mW/g



0 dB = 1.35mW/g

**SAR MEASUREMENT PLOT 28**

Ambient Temperature

20.4 Degrees Celsius

Liquid Temperature

19.9 Degrees Celsius

Humidity

41.0 %



Test Date: 15 August 2006

File Name: [Tablet OFDM 5.6 GHz Antenna A Bluetooth Off 15-08-06.da4](#)

DUT: Fujitsu Tablet Osian with Atheros XB62 11abg Module; Type: XB62; Serial: MAC:0011F5-D82570

\* Communication System: OFDM 5770 MHz; Frequency: 5825 MHz; Duty Cycle: 1:1

\* Medium parameters used:  $\sigma = 6.38915$  mho/m,  $\epsilon_r = 45.8694$ ;  $\rho = 1000$  kg/m<sup>3</sup>

- Electronics: DAE3 Sn442; Probe: EX3DV4 - SN3563; ConvF(3.64, 3.64, 3.64)

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

**Channel 165 Test/Area Scan (161x121x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 1.56 mW/g

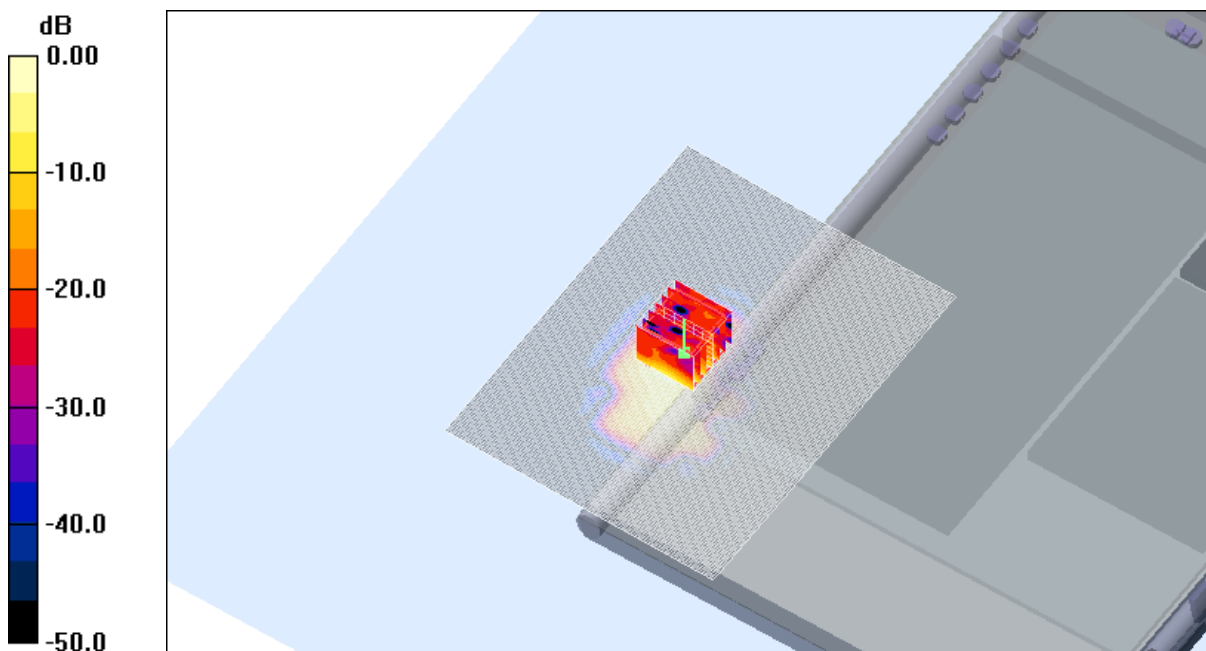
**Channel 165 Test/Zoom Scan (7x7x8)/Cube 0:** Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 18.1 V/m; Power Drift = -0.259 dB

Peak SAR (extrapolated) = 3.68 W/kg

**SAR(1 g) = 0.770 mW/g; SAR(10 g) = 0.190 mW/g**

Maximum value of SAR (measured) = 1.76 mW/g



0 dB = 1.76mW/g

**SAR MEASUREMENT PLOT 29**

Ambient Temperature

20.4 Degrees Celsius

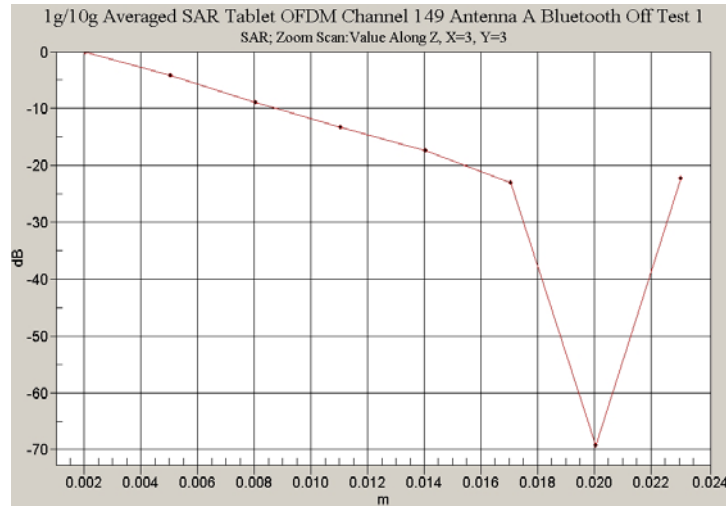
Liquid Temperature

19.9 Degrees Celsius

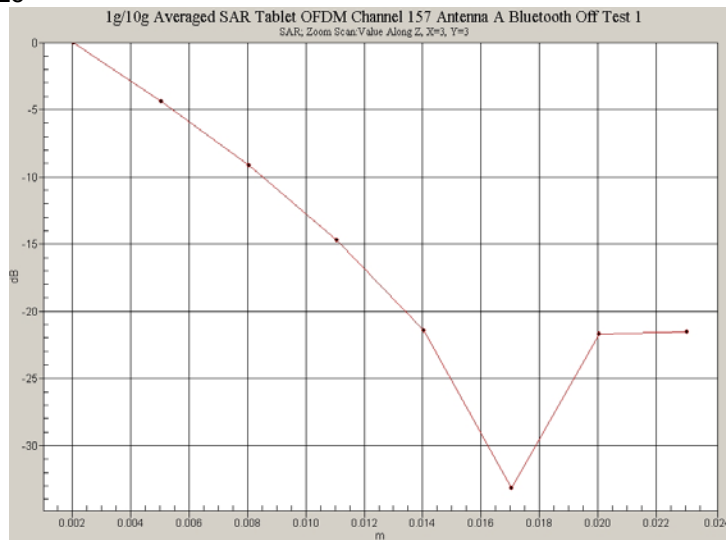
Humidity

41.0 %

Z-Axis Graph for Plot 27



Z-Axis Graph for Plot 28



Z-Axis Graph for Plot 29

