

## APPENDIX B PLOTS OF THE SAR MEASUREMENTS

Plots of the measured SAR distributions inside the phantom are given in this Appendix for all tested configurations. The spatial peak SAR values were assessed with the procedure described in this report.

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

Test Position	Plot No.	Ant	Bit rate Mode (Mbps)	Channel Bandwidth (MHz)	Test Channel
Edge on Right	1	B	6	-	06

**Table: 2450 MHz DSSS Band SAR Measurement Plot Numbers**

Test Position	Plot No.	Ant	Bit rate Mode (Mbps)	Channel Bandwidth (MHz)	Test Channel
Edge On Right	2	B	1	-	01
	3		1	-	06
	4		1	-	11
Z-Axis graphs for Plots 1 to 4					
Edge On Left	5	A	1	-	06
Tablet	6	A	1	-	06
	7	B	1	-	06

**Table: 2450MHz Validation Plot**

Plot 8	Validation 2450 MHz 30 <sup>th</sup> July 2008
Z-Axis graphs for Plots 5 to 8	

**Test Date: 30 July 2008**

File Name: Edge On Right OFDM 2.4 GHz Antenna B 2dB Attenuation 30-07-08.da4

DUT: **Fujitsu Tablet Hibiki with HB92 abgn; Type: AR5BHB92; Serial: MAC: 001B9EC851FA**

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

\* Medium parameters used:  $f = 2436$  MHz;  $\sigma = 1.93$  mho/m;  $\epsilon_r = 51.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1380; ConvF(4.18, 4.18, 4.18)

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

**Channel 6 Test/Area Scan (51x71x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.417 mW/g

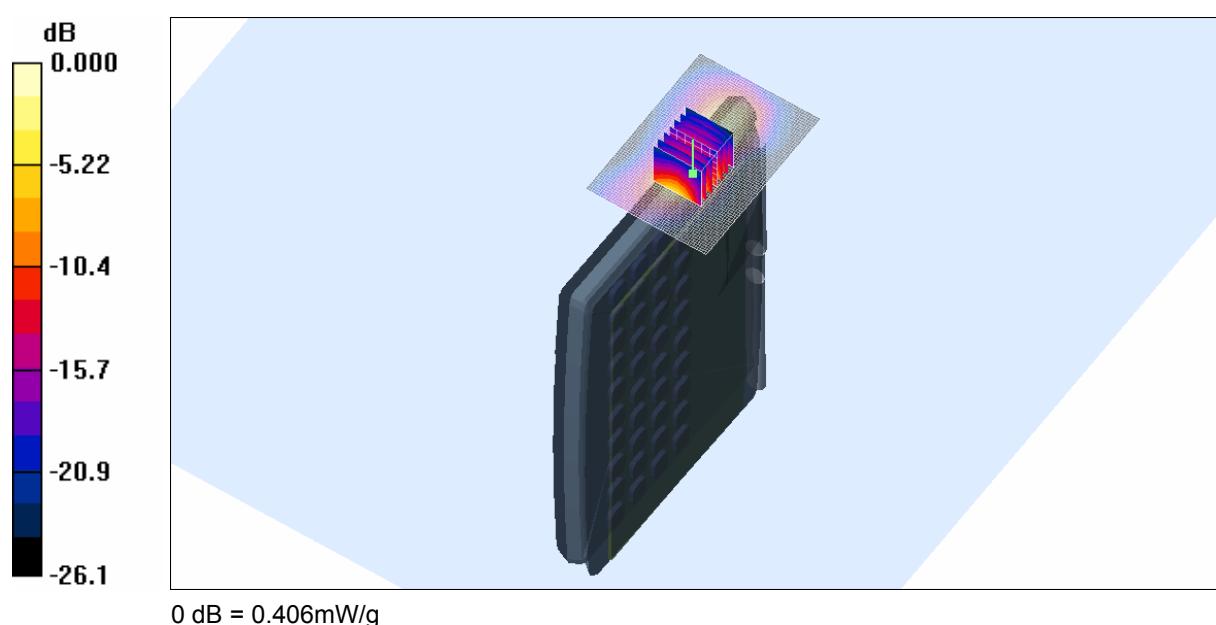
**Channel 6 Test/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 8.94 V/m; Power Drift = -0.337 dB

Peak SAR (extrapolated) = 0.884 W/kg

**SAR(1 g) = 0.351 mW/g; SAR(10 g) = 0.139 mW/g**

Maximum value of SAR (measured) = 0.406 mW/g



Ambient Temperature

19.5 Degrees Celsius

Liquid Temperature

19.4 Degrees Celsius

Humidity

48.0 %



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**Test Date: 30 July 2008**

File Name: Edge On Right DSSS 2.4 GHz Antenna B 2 dB Attenuation 30-07-08.da4

DUT: Fujitsu Tablet Hibiki with HB92 abgn; Type: AR5BHB92; Serial: MAC: 001B9EC851FA

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

\* Medium parameters used:  $f = 2412$  MHz;  $\sigma = 1.88$  mho/m;  $\epsilon_r = 52$ ;  $\rho = 1000$  kg/m<sup>3</sup>

- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1380; ConvF(4.18, 4.18, 4.18)

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

**Channel 1 Test/Area Scan (51x71x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.359 mW/g

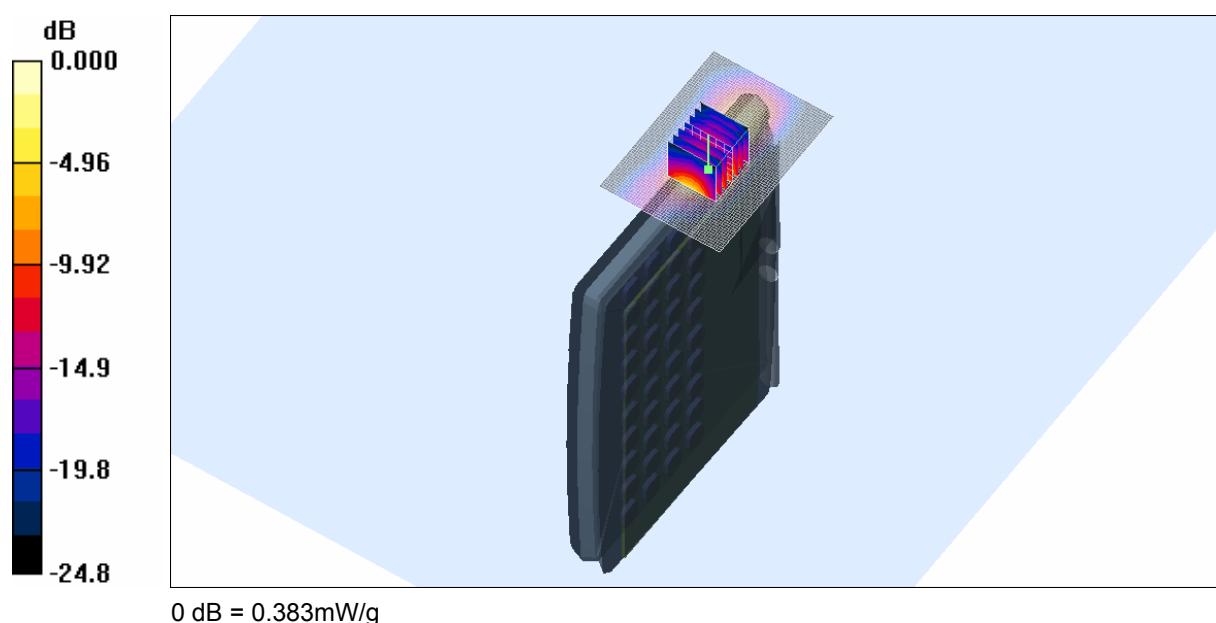
**Channel 1 Test/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 9.08 V/m; Power Drift = -0.315 dB

Peak SAR (extrapolated) = 0.839 W/kg

**SAR(1 g) = 0.329 mW/g; SAR(10 g) = 0.130 mW/g**

Maximum value of SAR (measured) = 0.383 mW/g



Ambient Temperature

19.5 Degrees Celsius

Liquid Temperature

19.4 Degrees Celsius

Humidity

48.0 %



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**Test Date: 30 July 2008**

File Name: Edge On Right DSSS 2.4 GHz Antenna B 2 dB Attenuation 30-07-08.da4

DUT: Fujitsu Tablet Hibiki with HB92 abgn; Type: AR5BHB92; Serial: MAC: 001B9EC851FA

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

\* Medium parameters used:  $f = 2436$  MHz;  $\sigma = 1.93$  mho/m;  $\epsilon_r = 51.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1380; ConvF(4.18, 4.18, 4.18)

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

**Channel 6 Test/Area Scan (51x71x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.410 mW/g

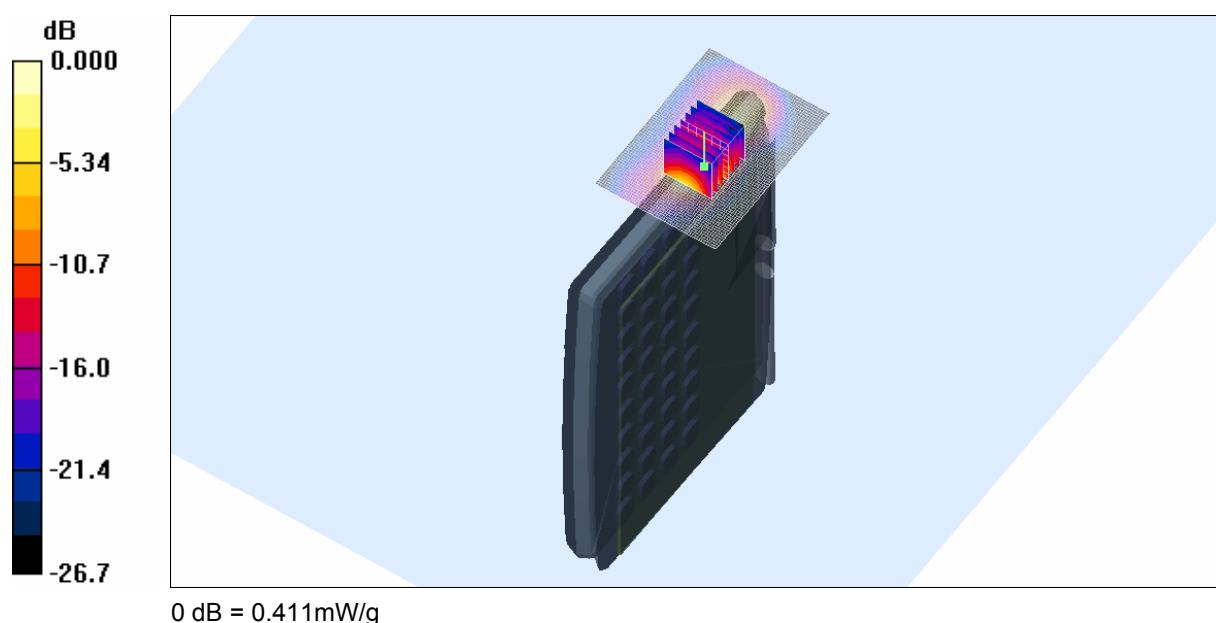
**Channel 6 Test/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 9.22 V/m; Power Drift = -0.230 dB

Peak SAR (extrapolated) = 0.897 W/kg

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

Maximum value of SAR (measured) = 0.411 mW/g



Ambient Temperature

19.5 Degrees Celsius

Liquid Temperature

19.4 Degrees Celsius

Humidity

48.0 %



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**Test Date: 30 July 2008**

File Name: Edge On Right DSSS 2.4 GHz Antenna B 2 dB Attenuation 30-07-08.da4

DUT: Fujitsu Tablet Hibiki with HB92 abgn; Type: AR5BHB92; Serial: MAC: 001B9EC851FA

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

\* Medium parameters used:  $f = 2462$  MHz;  $\sigma = 1.98$  mho/m;  $\epsilon_r = 51.7$ ;  $\rho = 1000$  kg/m<sup>3</sup>

- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1380; ConvF(4.18, 4.18, 4.18)

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

**Channel 11 Test/Area Scan (51x71x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.471 mW/g

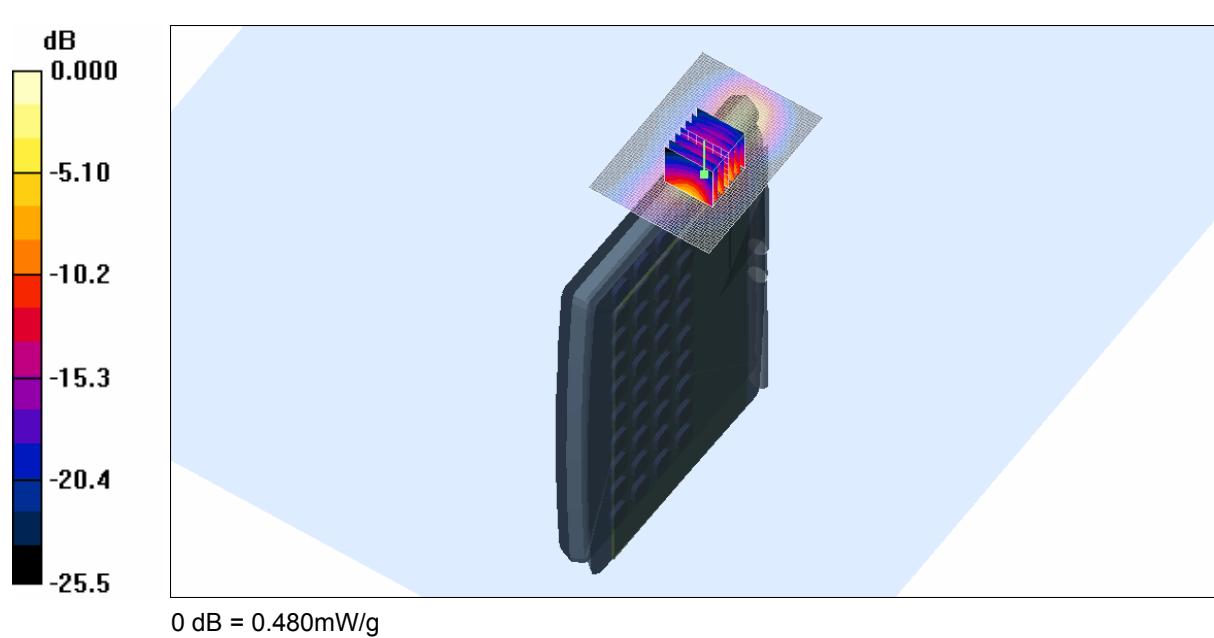
**Channel 11 Test/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 5.88 V/m; Power Drift = -0.136 dB

Peak SAR (extrapolated) = 1.06 W/kg

**SAR(1 g) = 0.413 mW/g; SAR(10 g) = 0.161 mW/g**

Maximum value of SAR (measured) = 0.480 mW/g



Ambient Temperature  
Liquid Temperature  
Humidity

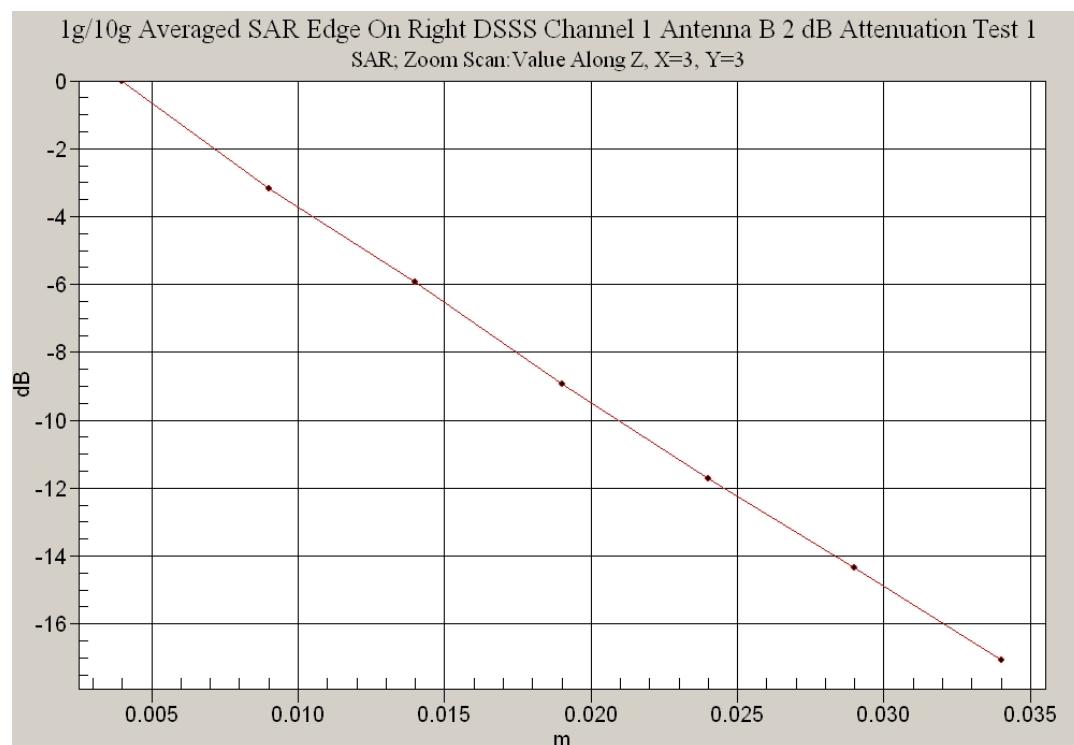
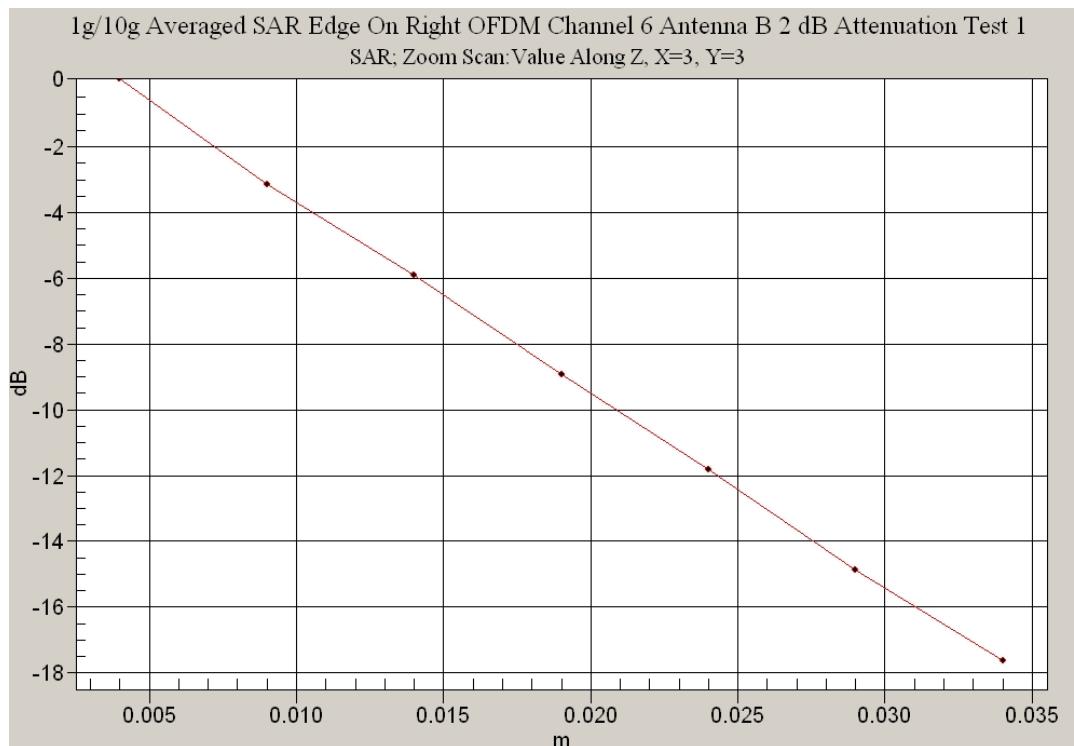
19.5 Degrees Celsius  
19.4 Degrees Celsius  
48.0 %



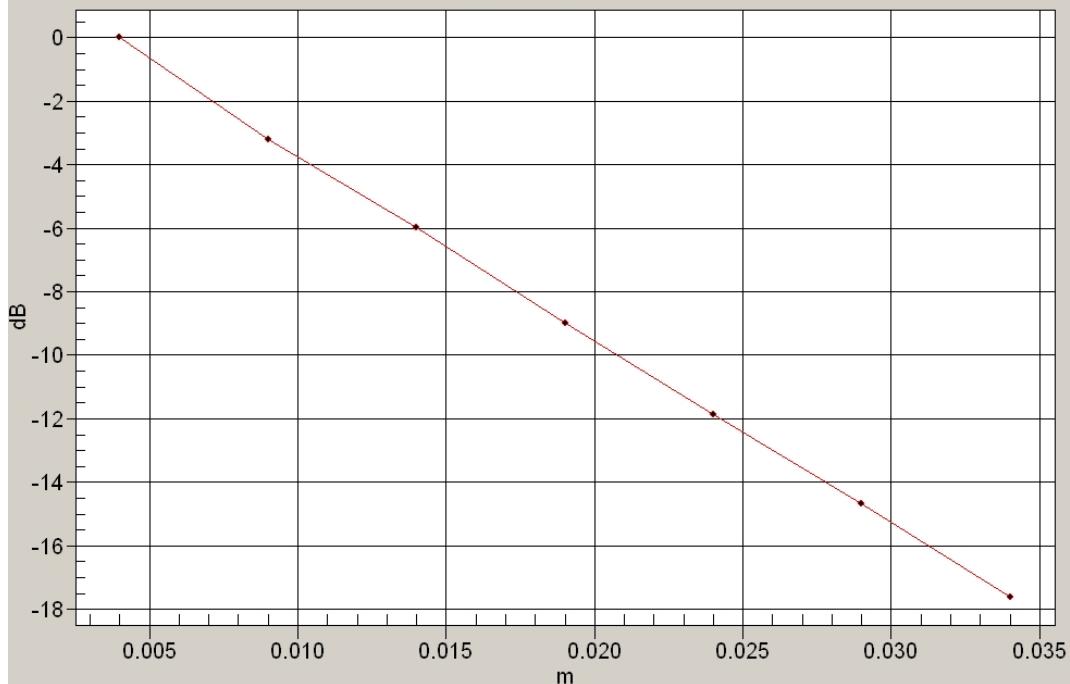
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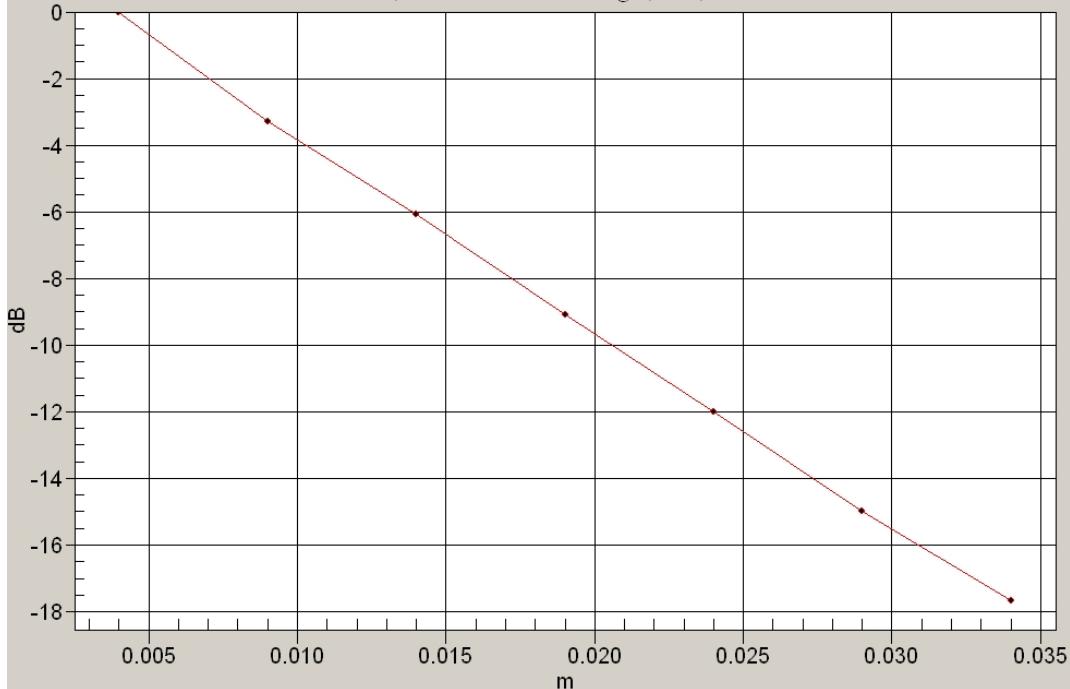
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1g/10g Averaged SAR Edge On Right DSSS Channel 6 Antenna B 2 dB Attenuation Test 1  
SAR; Zoom Scan:Value Along Z, X=3, Y=3



1g/10g Averaged SAR Edge On Right DSSS Channel 11 Antenna B 2 dB Attenuation Test 1  
SAR; Zoom Scan:Value Along Z, X=3, Y=3



**Test Date: 30 July 2008**

File Name: Edge On Left DSSS 2.4 GHz Antenna A 30-07-08.da4

DUT: Fujitsu Tablet Hibiki with HB92 abgn; Type: AR5BHB92; Serial: MAC: 001B9EC851FA

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

\* Medium parameters used:  $f = 2436$  MHz;  $\sigma = 1.93$  mho/m;  $\epsilon_r = 51.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1380; ConvF(4.18, 4.18, 4.18)

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

**Channel 6 Test/Area Scan (51x71x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.079 mW/g

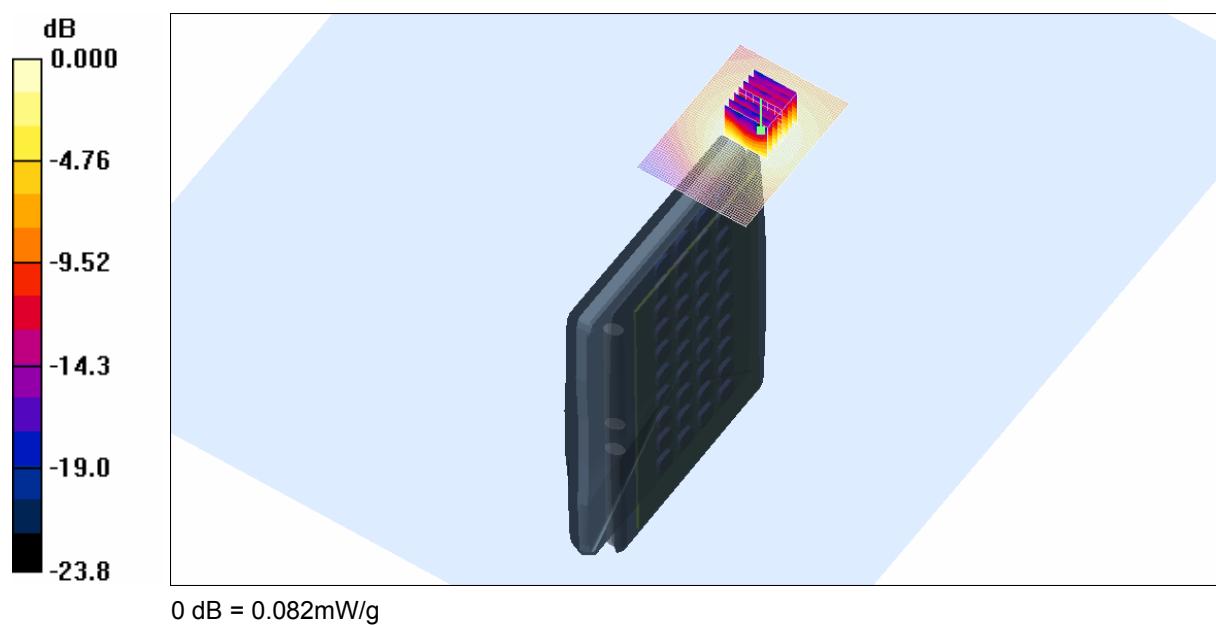
**Channel 6 Test/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 6.59 V/m; Power Drift = -0.085 dB

Peak SAR (extrapolated) = 0.170 W/kg

**SAR(1 g) = 0.076 mW/g; SAR(10 g) = 0.041 mW/g**

Maximum value of SAR (measured) = 0.082 mW/g



Ambient Temperature

19.5 Degrees Celsius

Liquid Temperature

19.4 Degrees Celsius

Humidity

48.0 %



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**Test Date: 30 July 2008**

File Name: Tablet DSSS 2.4 GHz Antenna A 30-07-08.da4

DUT: **Fujitsu Tablet Hibiki with HB92 abgn; Type: AR5BHB92; Serial: MAC: 001B9EC851FA**

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

\* Medium parameters used:  $f = 2436$  MHz;  $\sigma = 1.93$  mho/m;  $\epsilon_r = 51.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1380; ConvF(4.18, 4.18, 4.18)

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

**Channel 6 Test/Area Scan (51x71x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.243 mW/g

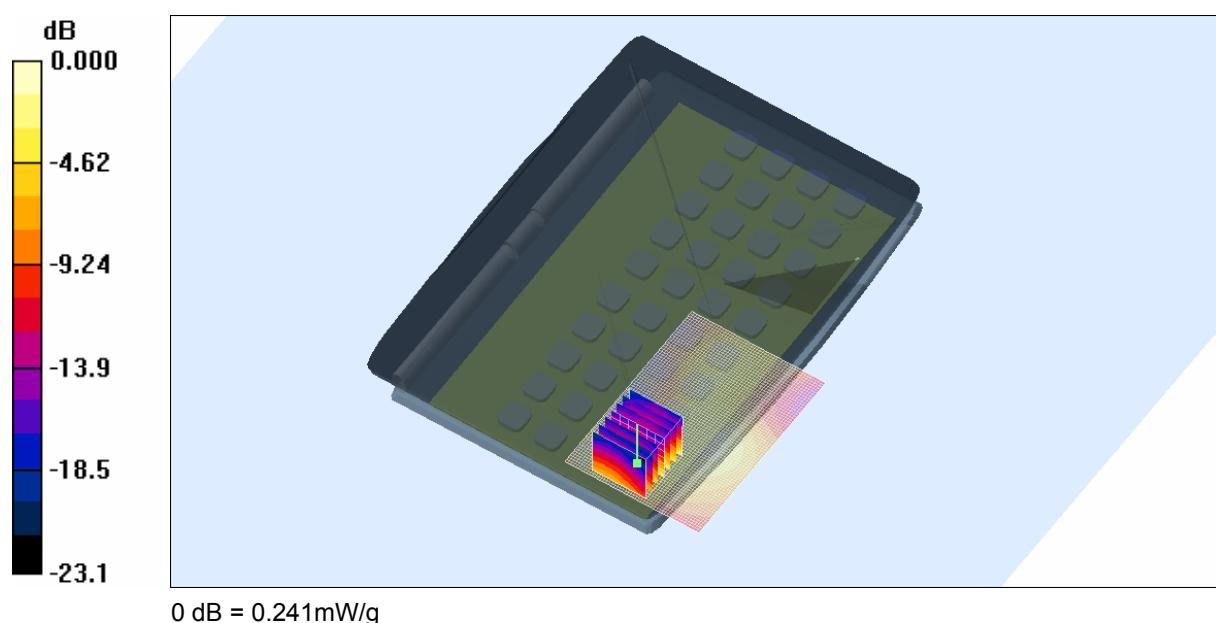
**Channel 6 Test/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 8.28 V/m; Power Drift = -0.251 dB

Peak SAR (extrapolated) = 0.503 W/kg

**SAR(1 g) = 0.211 mW/g; SAR(10 g) = 0.097 mW/g**

Maximum value of SAR (measured) = 0.241 mW/g



Ambient Temperature

19.5 Degrees Celsius

Liquid Temperature

19.4 Degrees Celsius

Humidity

48.0 %



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**Test Date: 30 July 2008**

File Name: Tablet DSSS 2.4 GHz Antenna B 30-07-08.da4

DUT: **Fujitsu Tablet Hibiki with HB92 abgn; Type: AR5BHB92; Serial: MAC: 001B9EC851FA**

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

\* Medium parameters used:  $f = 2436$  MHz;  $\sigma = 1.93$  mho/m;  $\epsilon_r = 51.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1380; ConvF(4.18, 4.18, 4.18)

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

**Channel 6 Test/Area Scan (71x51x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.014 mW/g

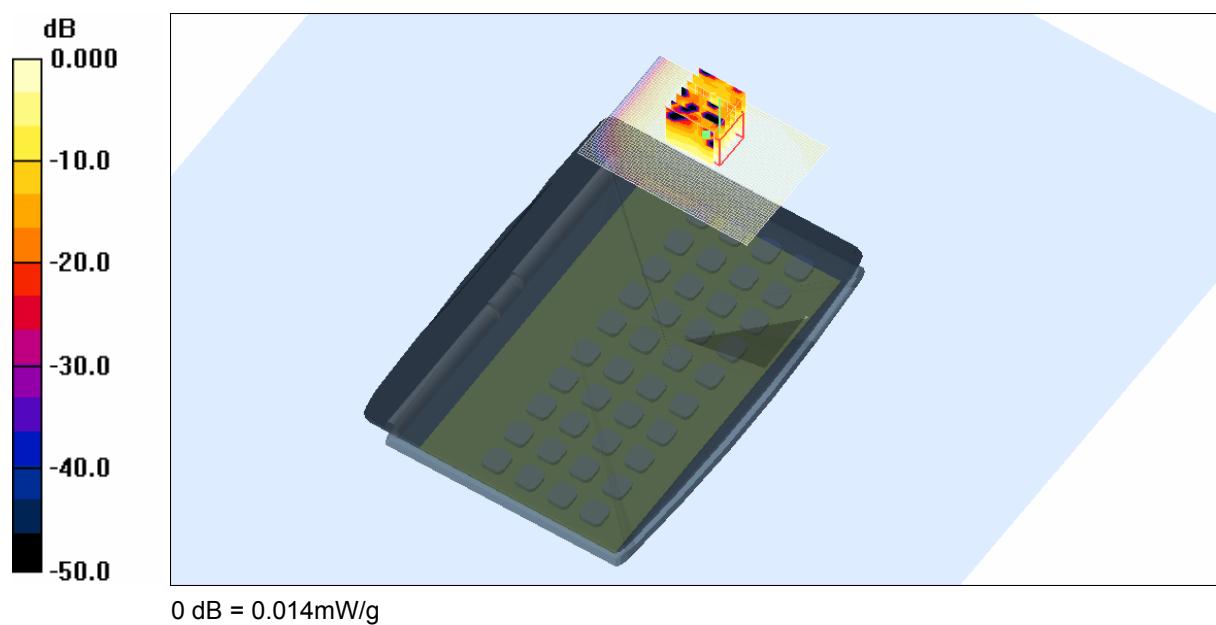
**Channel 6 Test/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 2.51 V/m; Power Drift = -0.041 dB

Peak SAR (extrapolated) = 0.028 W/kg

**SAR(1 g) = 0.013 mW/g; SAR(10 g) = 0.00729 mW/g**

Maximum value of SAR (measured) = 0.014 mW/g



Ambient Temperature

19.5 Degrees Celsius

Liquid Temperature

19.4 Degrees Celsius

Humidity

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**Test Date: 30 July 2008**File Name: Validation 2450 MHz (DAE442 Probe1380) 30-07-08.da4**DUT: Dipole 2450 MHz; Type: DV2450V2; Serial: 724**

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

\* Medium parameters used:  $f = 2450$  MHz;  $\sigma = 1.8$  mho/m;  $\epsilon_r = 39.7$ ;  $\rho = 1000$  kg/m<sup>3</sup>

- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1380; ConvF(4.55, 4.55, 4.55)

- 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) = 19.1 mW/g

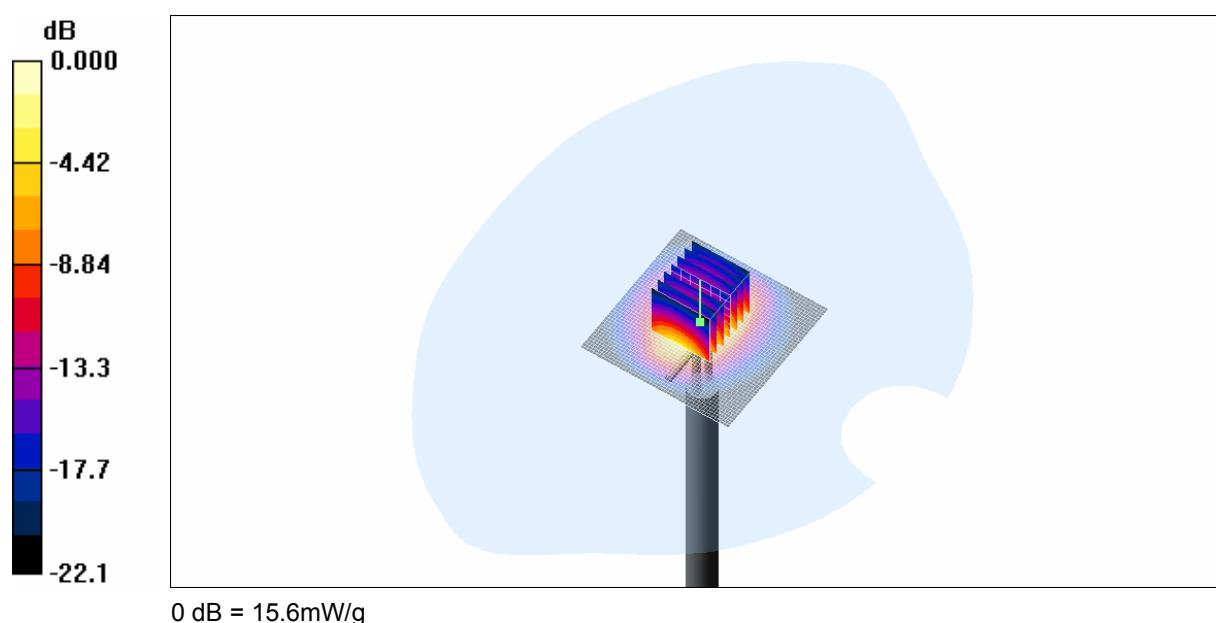
**Channel 1 Test/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 98.0 V/m; Power Drift = -0.045 dB

Peak SAR (extrapolated) = 30.6 W/kg

**SAR(1 g) = 14 mW/g; SAR(10 g) = 6.54 mW/g**

Maximum value of SAR (measured) = 15.6 mW/g



Ambient Temperature

19.5 Degrees Celsius

Liquid Temperature

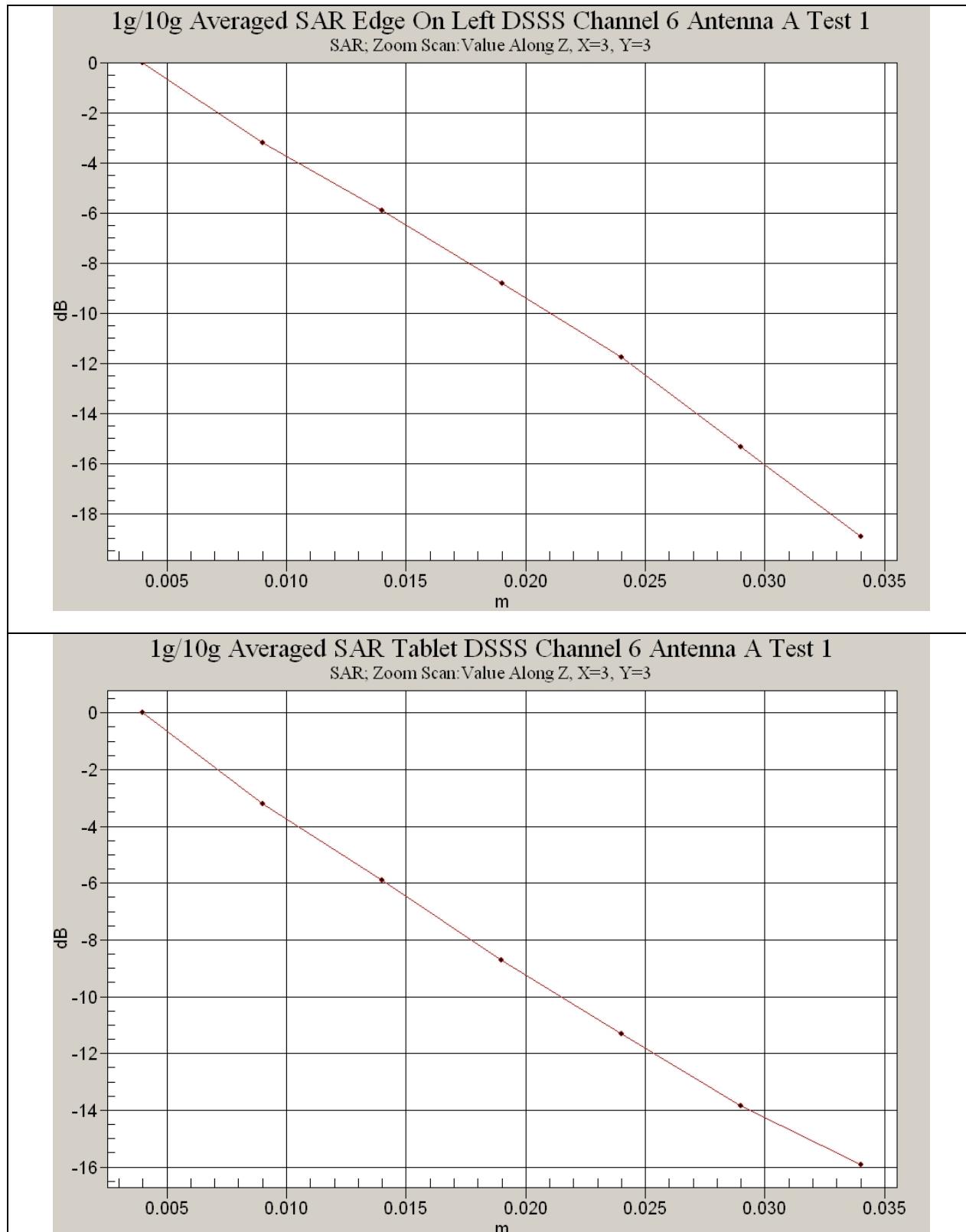
19.4 Degrees Celsius

Humidity

48.0 %



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