

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	A	6	-	01
	2	A	6	-	06
	3	A	6	-	11
Edge On Left	4	B	6	-	06
Z-Axis graphs for Plots 1 to 4					
Tablet	5	A	6	-	06
	6	B	6	-	

Table: Bluetooth SAR Measurement Plot Numbers

Test Position	Plot No.	Test Channel
Edge On Left	7	40
Tablet	8	40
Z-Axis graphs for Plots 5 to 8		

Table: 2450MHz Validation Plot

Plot 9	Validation 2450 MHz 2 nd July 2008
Z-Axis graph for Plot 9	



Test Date: 02 July 2008

File Name: [Edge On Right OFDM 2.45 GHz WiFi Antenna A 02-07-08.da4](#)

DUT: Fujitsu Tablet Cutlas with HB92 AR5BHB92 11abgn (2x2); **Type:** AR5BHB92; **Serial:** 001B9E-C85143

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

* Medium parameters used: $f = 2412$ MHz; $\sigma = 1.9$ mho/m; $\epsilon_r = 51.8$; $\rho = 1000$ kg/m³

- 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 (51x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.046 mW/g

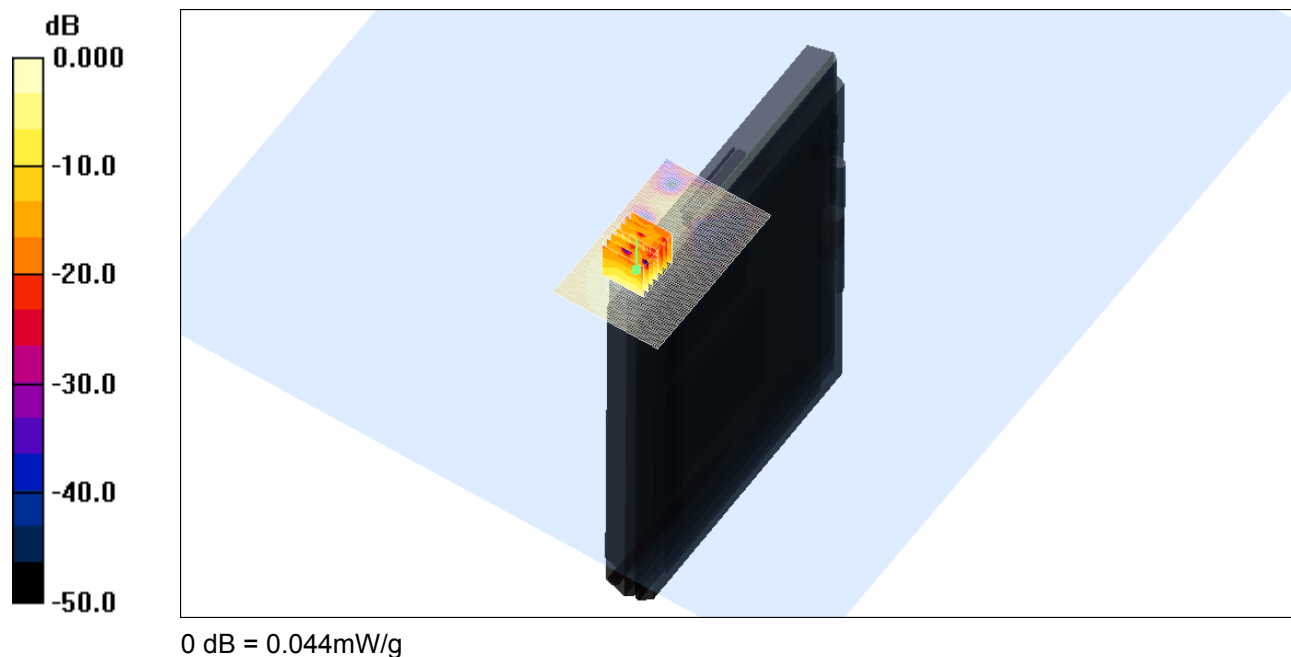
Channel 1 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.33 V/m; Power Drift = -0.252 dB

Peak SAR (extrapolated) = 0.083 W/kg

SAR(1 g) = 0.037 mW/g; SAR(10 g) = 0.017 mW/g

Maximum value of SAR (measured) = 0.044 mW/g



SAR MEASUREMENT PLOT 1

Ambient Temperature
Liquid Temperature
Humidity

21.7 Degrees Celsius
21.3 Degrees Celsius
41.0 %



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Test Date: 02 July 2008

File Name: [Edge On Right OFDM 2.45 GHz WiFi Antenna A 02-07-08.da4](#)

DUT: Fujitsu Tablet Cutlas with HB92 AR5BHB92 11abgn (2x2); Type: AR5BHB92; Serial: 001B9E-C85143

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

* Medium parameters used: $f = 2436$ MHz; $\sigma = 1.94$ mho/m; $\epsilon_r = 51.7$; $\rho = 1000$ kg/m³

- 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 (51x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.038 mW/g

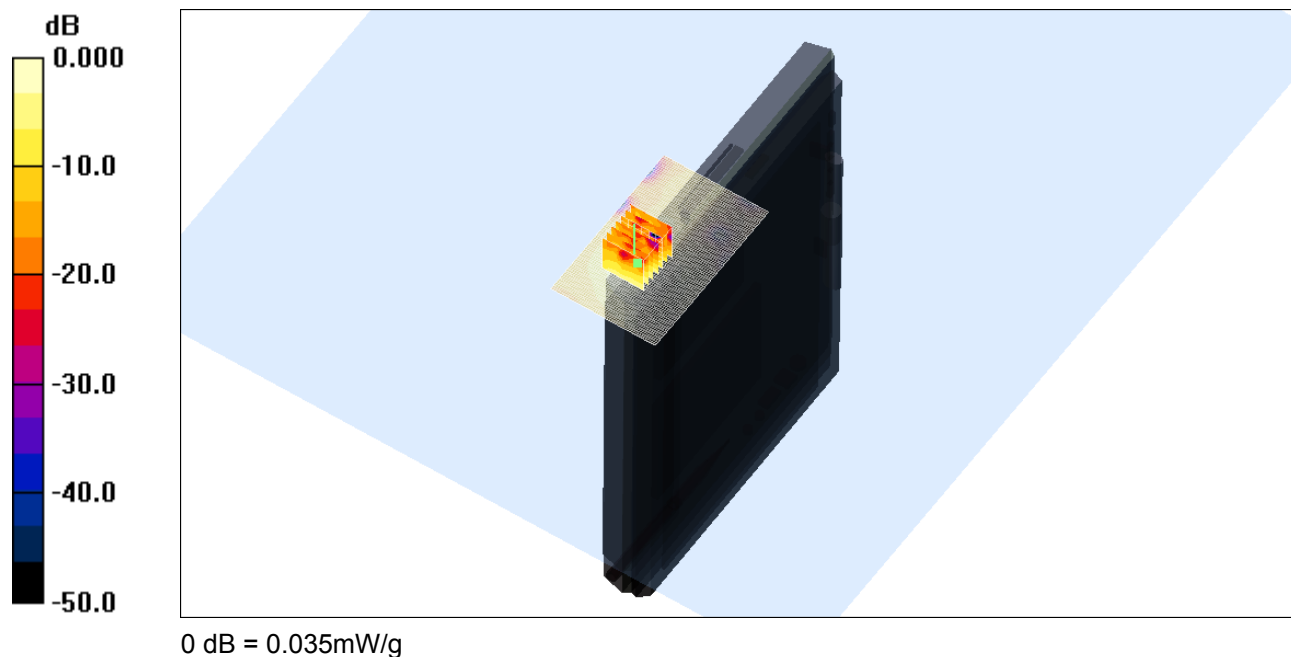
Channel 6 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 2.80 V/m; Power Drift = -0.214 dB

Peak SAR (extrapolated) = 0.106 W/kg

SAR(1 g) = 0.032 mW/g; SAR(10 g) = 0.013 mW/g

Maximum value of SAR (measured) = 0.035 mW/g



SAR MEASUREMENT PLOT 2

Ambient Temperature
Liquid Temperature
Humidity

21.7 Degrees Celsius
21.3 Degrees Celsius
41.0 %



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Test Date: 02 July 2008

File Name: [Edge On Right OFDM 2.45 GHz WiFi Antenna A 02-07-08.da4](#)

DUT: Fujitsu Tablet Cutlas with HB92 AR5BHB92 11abgn (2x2); Type: AR5BHB92; Serial: 001B9E-C85143

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

* Medium parameters used: $f = 2462$ MHz; $\sigma = 1.98$ mho/m; $\epsilon_r = 51.5$; $\rho = 1000$ kg/m³

- 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 (51x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.030 mW/g

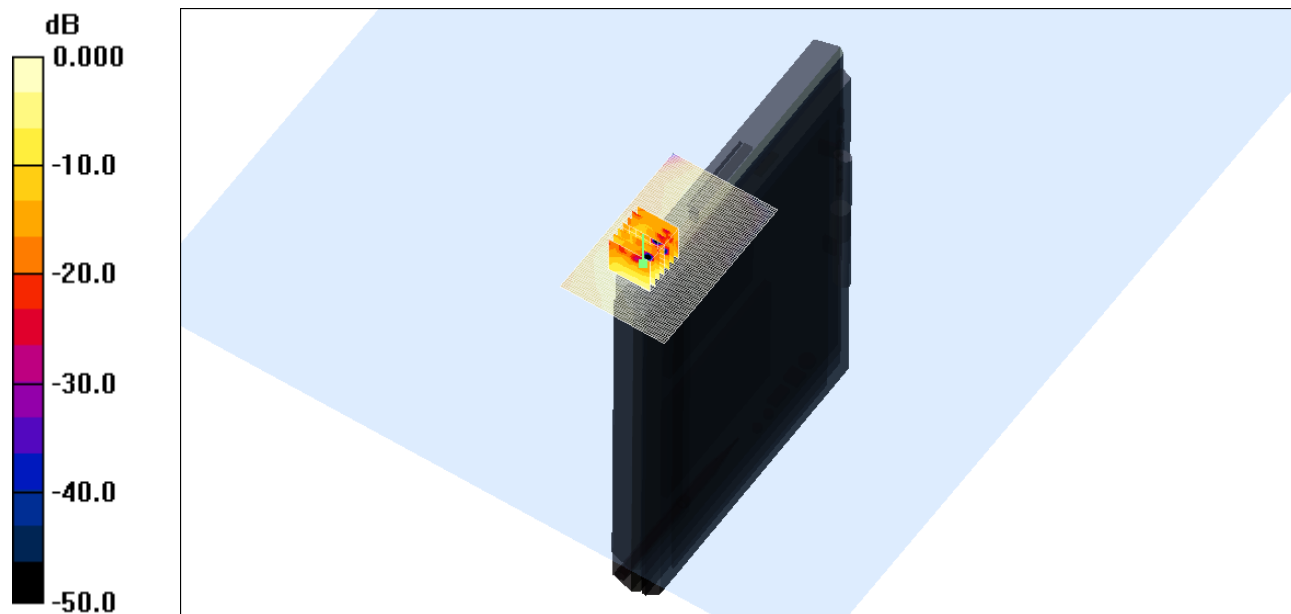
Channel 11 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 2.69 V/m; Power Drift = -0.297 dB

Peak SAR (extrapolated) = 0.046 W/kg

SAR(1 g) = 0.024 mW/g; SAR(10 g) = 0.011 mW/g

Maximum value of SAR (measured) = 0.028 mW/g



0 dB = 0.028mW/g

SAR MEASUREMENT PLOT 3

Ambient Temperature
Liquid Temperature
Humidity

21.7 Degrees Celsius
21.3 Degrees Celsius
41.0 %



Test Date: 02 July 2008

File Name: [Edge On Left OFDM 2.45 GHz WiFi Antenna B 02-07-08.da4](#)

DUT: Fujitsu Tablet Cutlas with HB92 AR5BHB92 11abgn (2x2); Type: AR5BHB92; Serial: 001B9E-C85143

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

* Medium parameters used: $f = 2436$ MHz; $\sigma = 1.94$ mho/m; $\epsilon_r = 51.7$; $\rho = 1000$ kg/m³

- 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 (51x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.017 mW/g

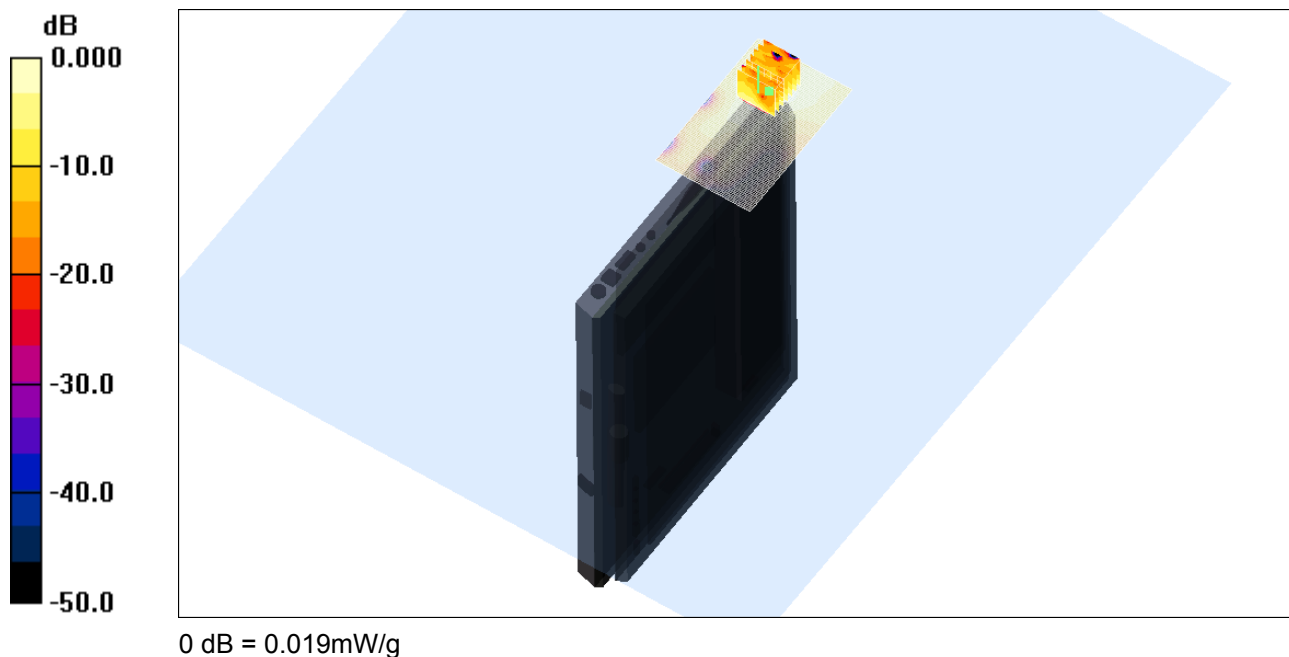
Channel 6 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 1.83 V/m; Power Drift = -0.395 dB

Peak SAR (extrapolated) = 0.033 W/kg

SAR(1 g) = 0.016 mW/g; SAR(10 g) = 0.00751 mW/g

Maximum value of SAR (measured) = 0.019 mW/g



SAR MEASUREMENT PLOT 4

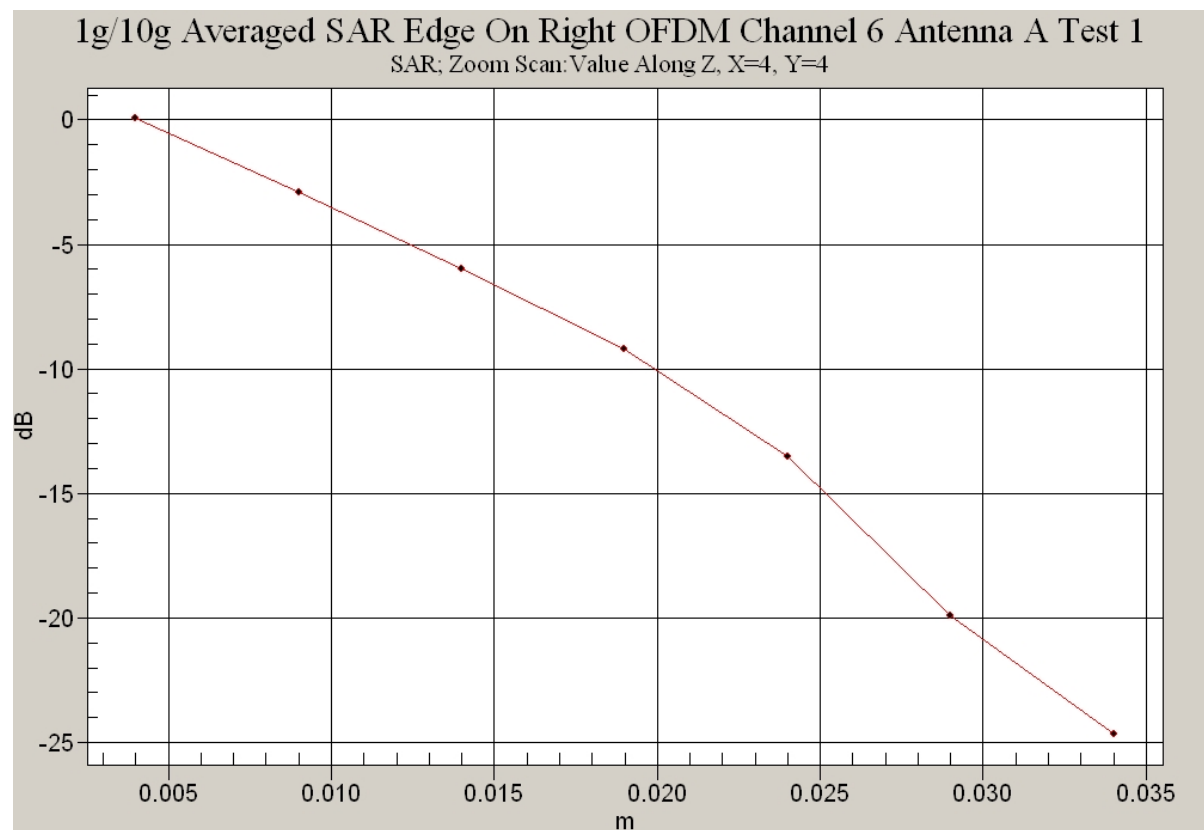
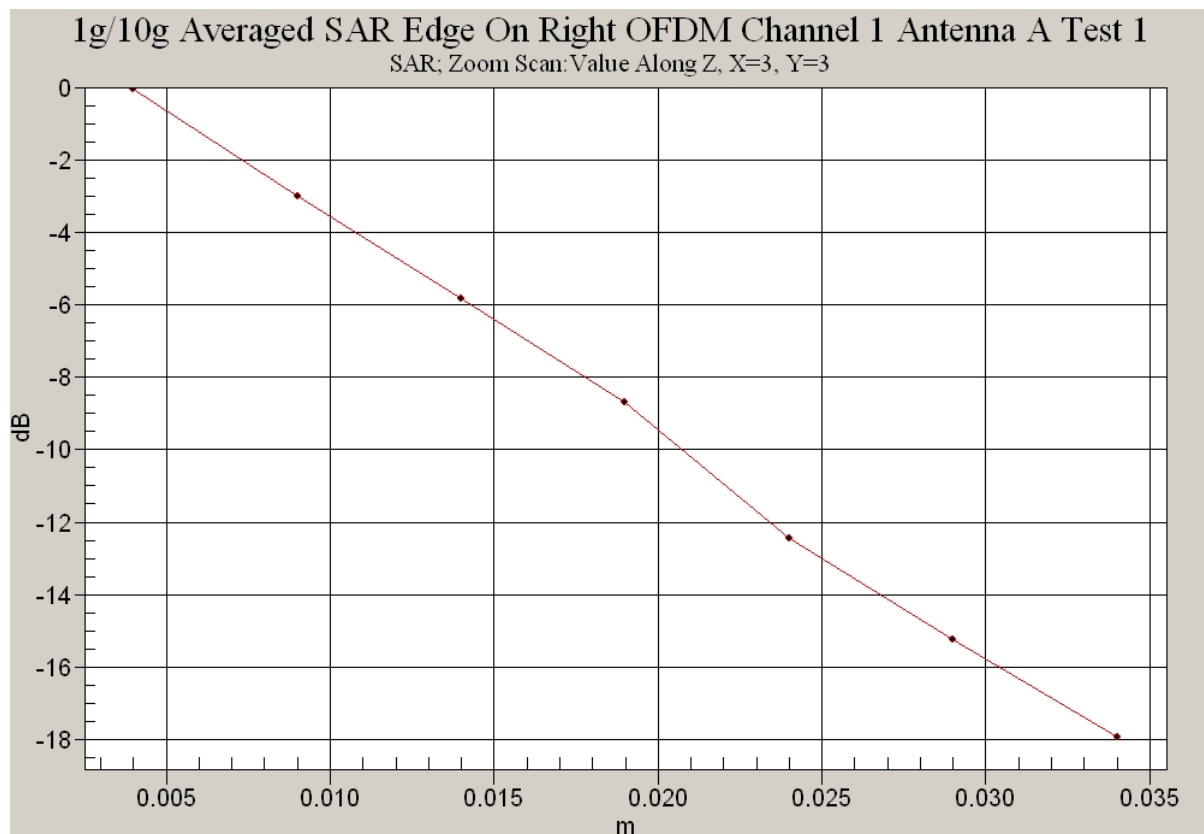
Ambient Temperature
Liquid Temperature
Humidity

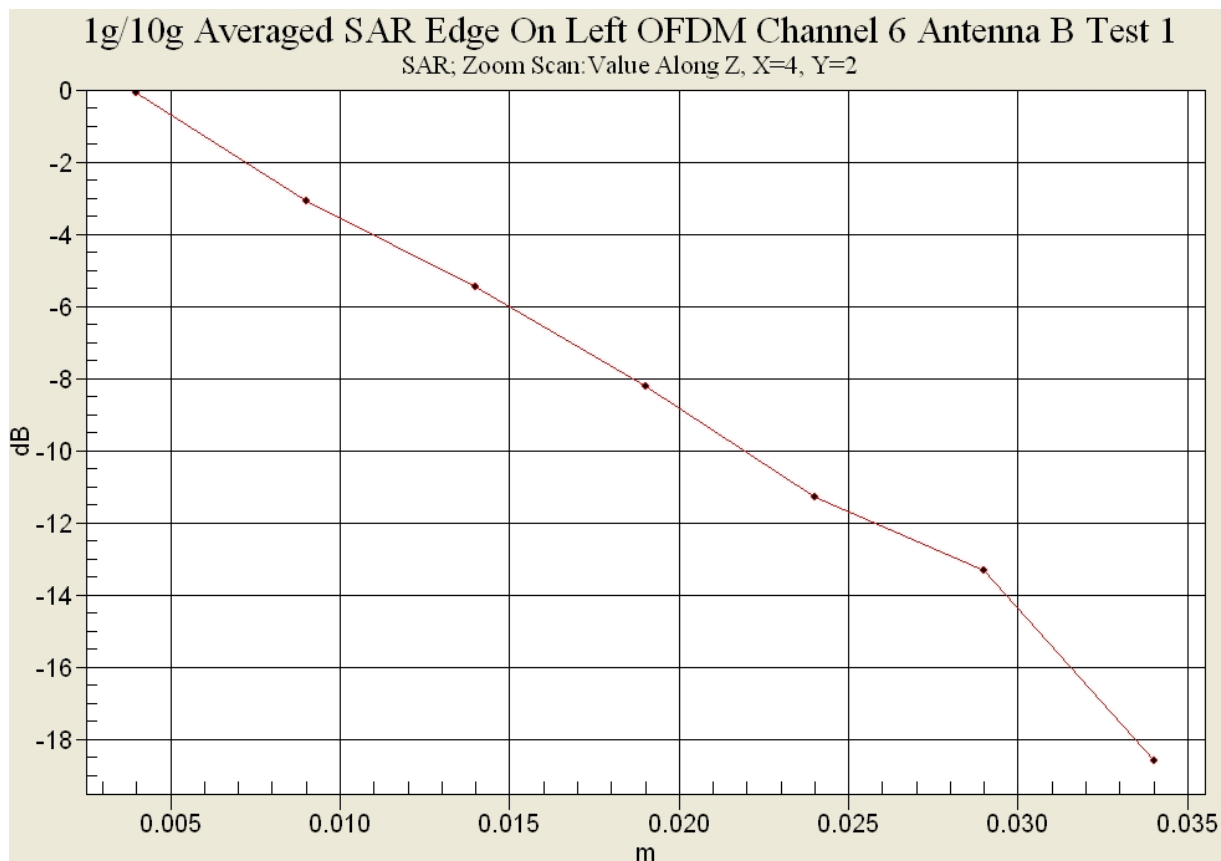
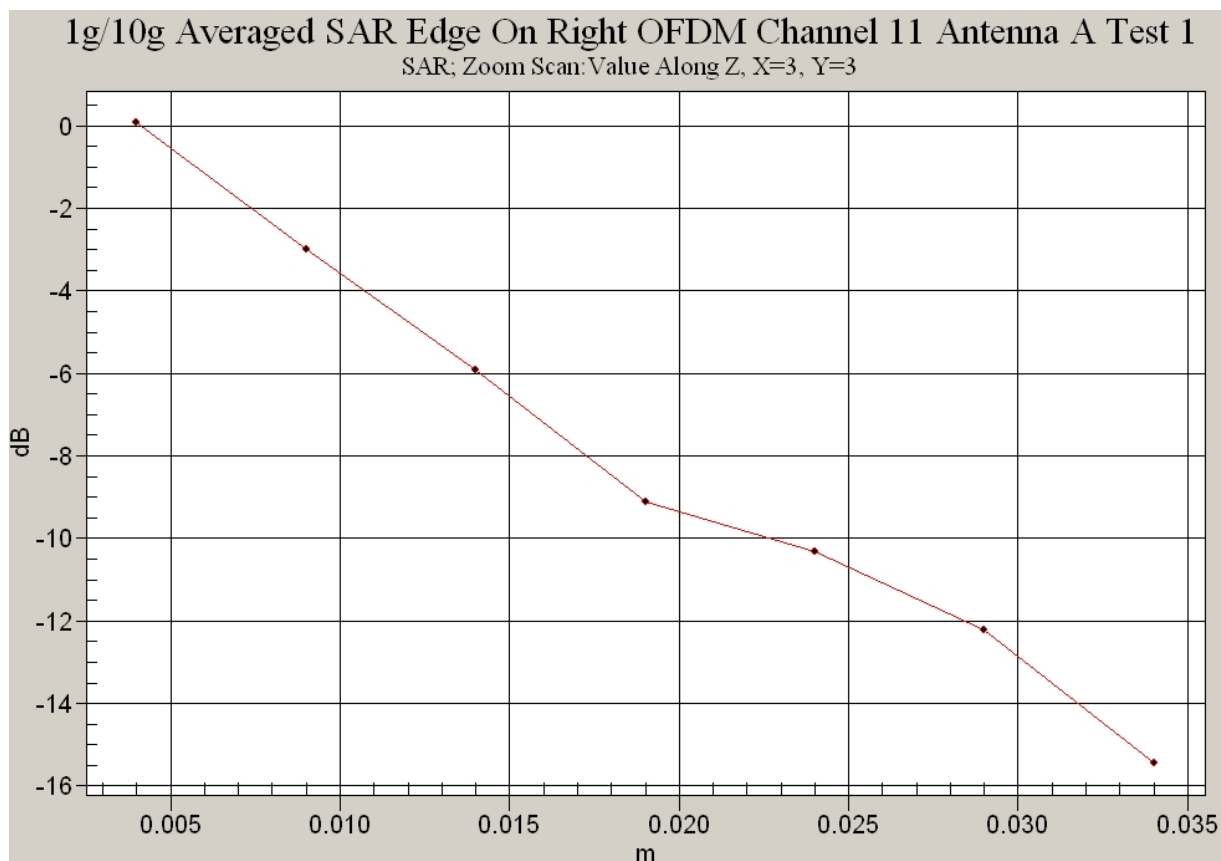
21.7 Degrees Celsius
21.3 Degrees Celsius
41.0 %



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Test Date: 02 July 2008

File Name: [Tablet OFDM 2.45 WiFi Antenna A 02-07-08.da4](#)

DUT: Fujitsu Tablet Cutlas with HB92 AR5BHB92 11abgn (2x2); Type: AR5BHB92; Serial: 001B9E-C85143

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

* Medium parameters used: $f = 2436$ MHz; $\sigma = 1.94$ mho/m; $\epsilon_r = 51.7$; $\rho = 1000$ kg/m³

- 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 (71x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.016 mW/g

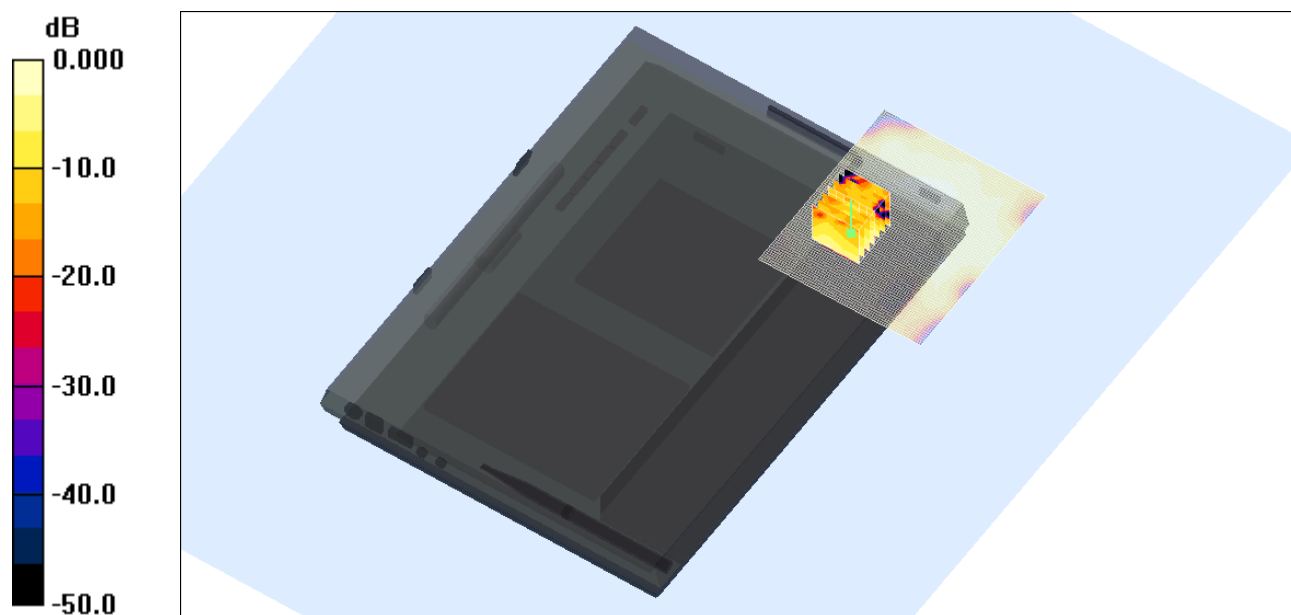
Channel 6 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 1.89 V/m; Power Drift = 0.331 dB

Peak SAR (extrapolated) = 0.023 W/kg

SAR(1 g) = 0.013 mW/g; SAR(10 g) = 0.00678 mW/g

Maximum value of SAR (measured) = 0.015 mW/g



0 dB = 0.015mW/g

SAR MEASUREMENT PLOT 5

Ambient Temperature
Liquid Temperature
Humidity

21.7 Degrees Celsius
21.3 Degrees Celsius
41.0 %



Test Date: 02 July 2008

File Name: [Tablet OFDM 2.45 WiFi Antenna B 02-07-08.da4](#)

DUT: Fujitsu Tablet Cutlas with HB92 AR5BHB92 11abgn (2x2); Type: AR5BHB92; Serial: 001B9E-C85143

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

* Medium parameters used: $f = 2436$ MHz; $\sigma = 1.94$ mho/m; $\epsilon_r = 51.7$; $\rho = 1000$ kg/m³

- 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 (51x61x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 0.011 mW/g

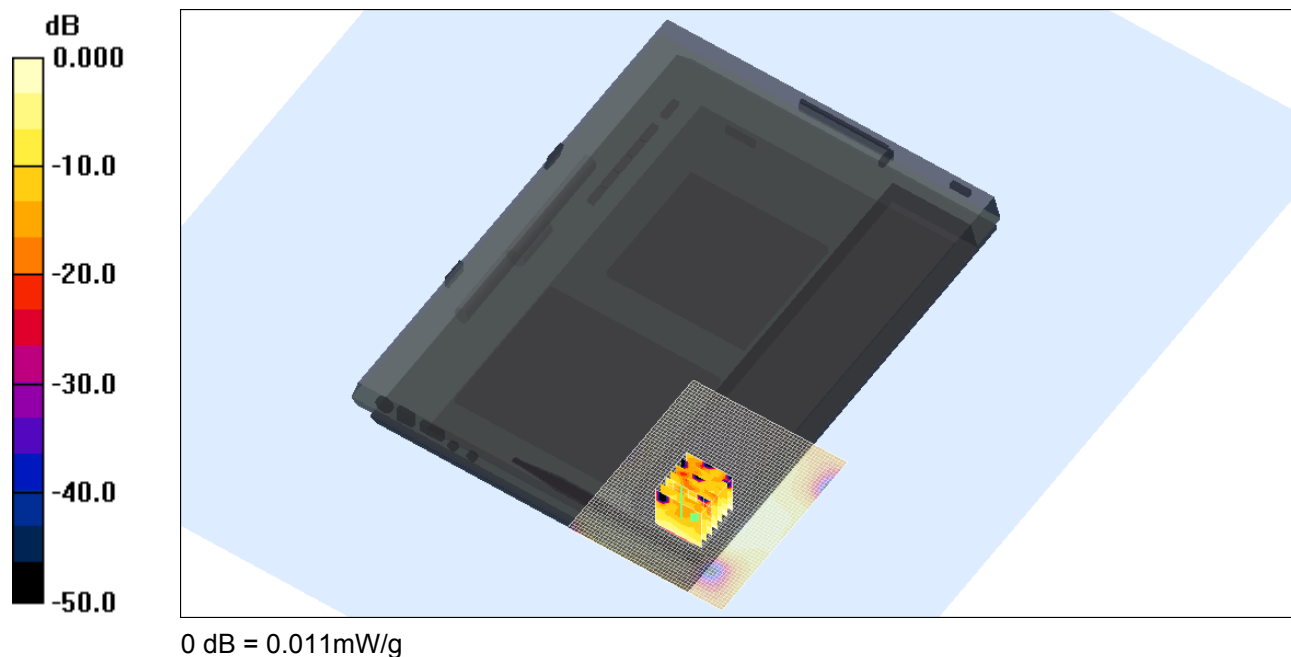
Channel 6 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 1.62 V/m; Power Drift = 0.121 dB

Peak SAR (extrapolated) = 0.018 W/kg

SAR(1 g) = 0.00968 mW/g; SAR(10 g) = 0.00508 mW/g

Maximum value of SAR (measured) = 0.011 mW/g



SAR MEASUREMENT PLOT 6

Ambient Temperature
Liquid Temperature
Humidity

21.7 Degrees Celsius
21.3 Degrees Celsius
41.0 %



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Test Date: 02 July 2008

File Name: [Edge On Left 2.45 GHz Bluetooth 02-07-08.da4](#)

DUT: Fujitsu Tablet Cutlas with Bluetooth; Type: EYTF3CSF; Serial: 00037AD259E6

* Communication System: FHSS 2450 MHz; Frequency: 2441 MHz; Duty Cycle: 1:1

* Medium parameters used: $f = 2440$ MHz; $\sigma = 1.95$ mho/m; $\epsilon_r = 51.6$; $\rho = 1000$ kg/m³

- 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 40 Test/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.002 mW/g

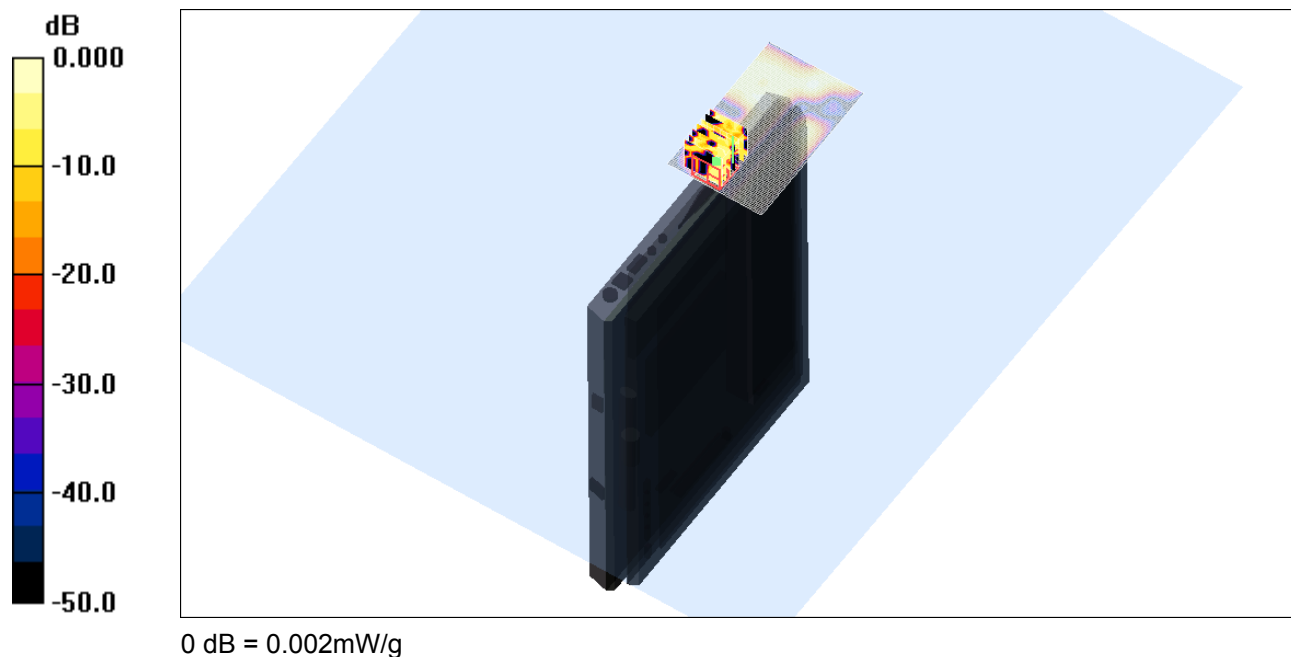
Channel 40 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 0.434 V/m; Power Drift = -0.779 dB

Peak SAR (extrapolated) = 0.004 W/kg

SAR(1 g) = 0.000146 mW/g; SAR(10 g) = 3.78e-005 mW/g

Maximum value of SAR (measured) = 0.002 mW/g



SAR MEASUREMENT PLOT 7

Ambient Temperature
Liquid Temperature
Humidity

21.7 Degrees Celsius
21.3 Degrees Celsius
41.0 %



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Test Date: 02 July 2008

File Name: [Tablet 2.45 Bluetooth 02-07-08.da4](#)

DUT: Fujitsu Tablet Cutlas with Bluetooth; Type: EYTF3CSF; Serial: 00037AD259E6

* Communication System: FHSS 2450 MHz; Frequency: 2441 MHz; Duty Cycle: 1:1

* Medium parameters used: $f = 2440$ MHz; $\sigma = 1.95$ mho/m; $\epsilon_r = 51.6$; $\rho = 1000$ kg/m³

- 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 40 Test/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.002 mW/g

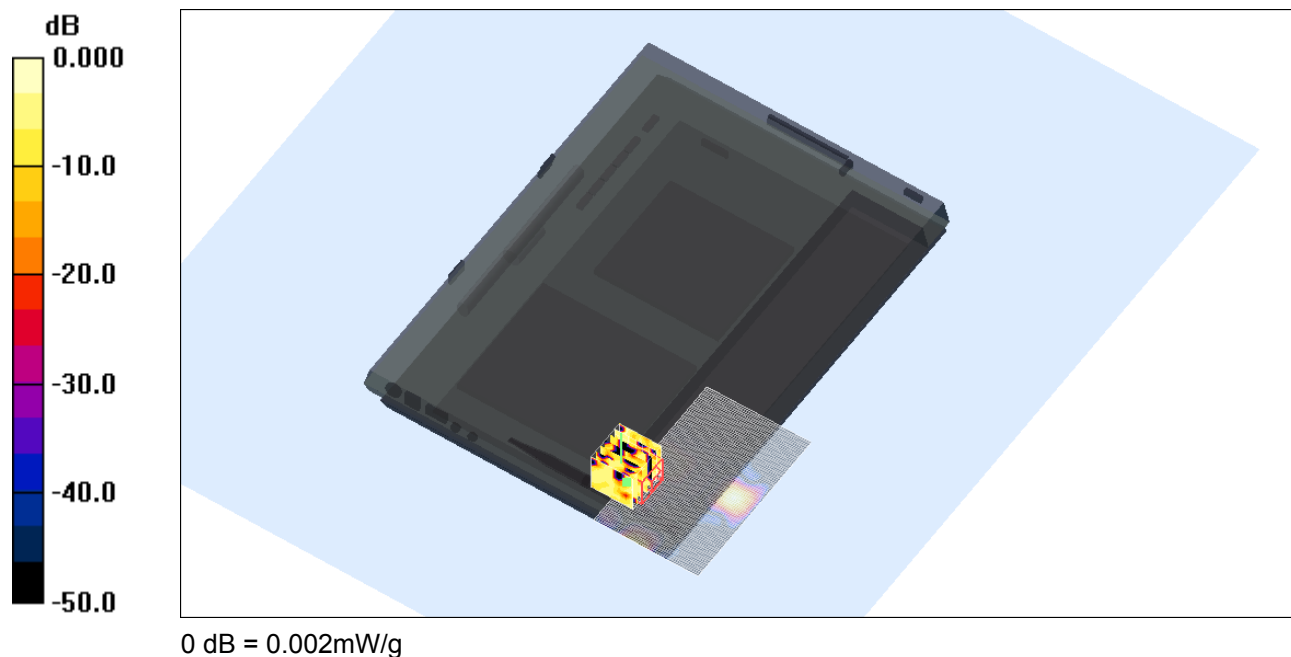
Channel 40 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 0.245 V/m; Power Drift = -0.037 dB

Peak SAR (extrapolated) = 0.005 W/kg

SAR(1 g) = 0.000669 mW/g; SAR(10 g) = 0.000174 mW/g

Maximum value of SAR (measured) = 0.002 mW/g



SAR MEASUREMENT PLOT 8

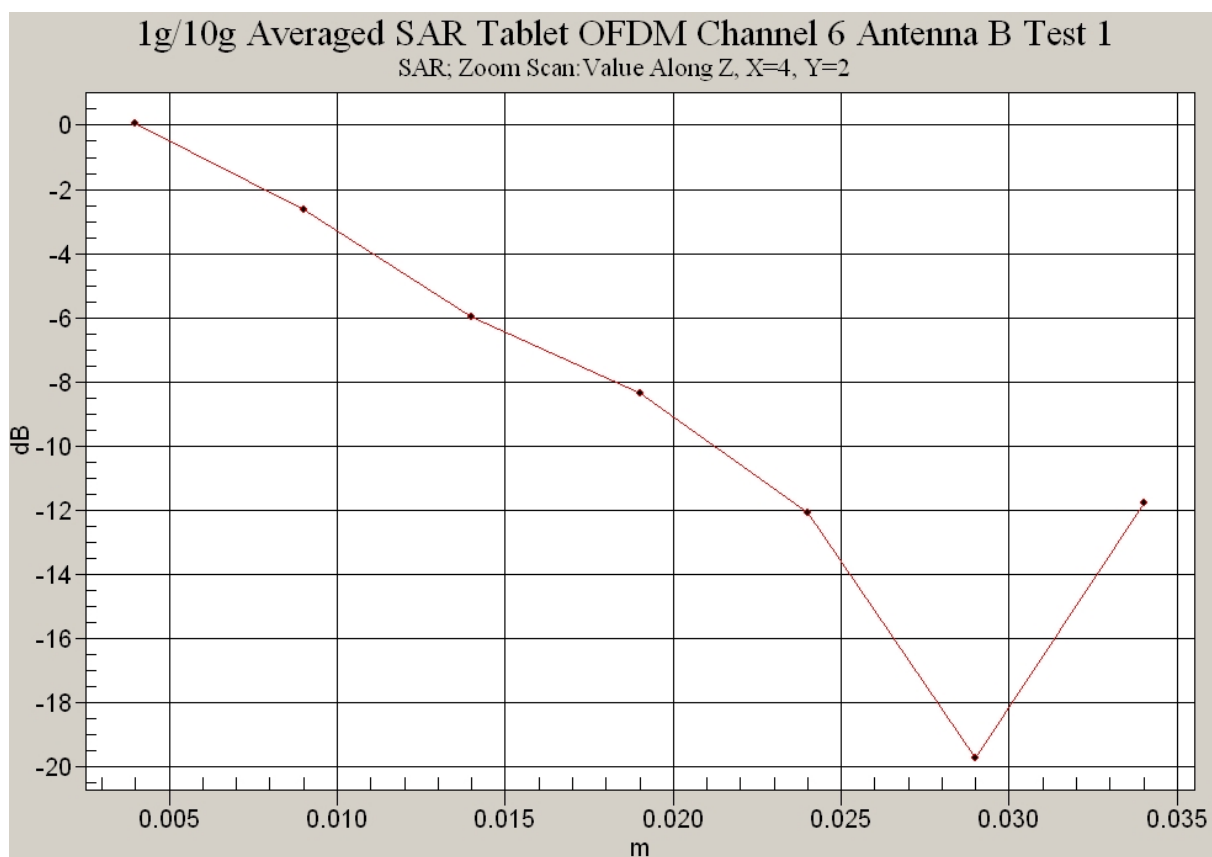
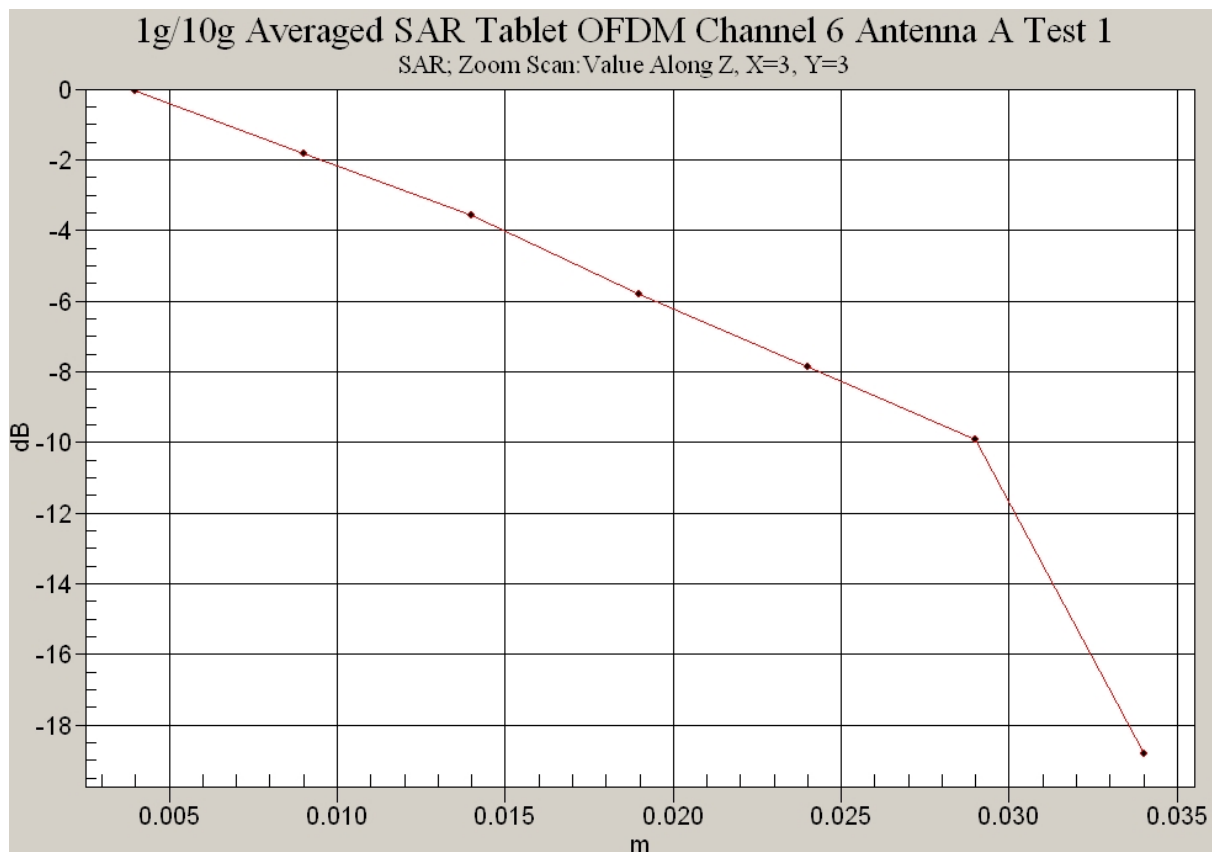
Ambient Temperature
Liquid Temperature
Humidity

21.7 Degrees Celsius
21.3 Degrees Celsius
41.0 %



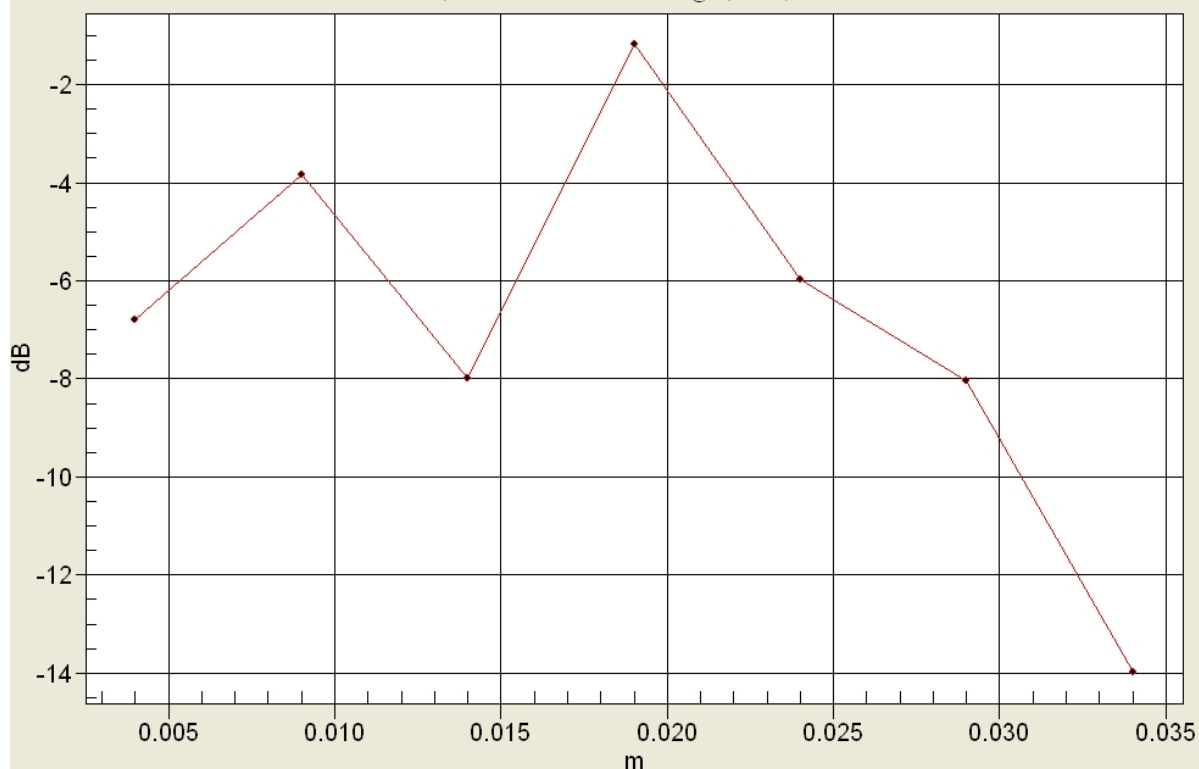
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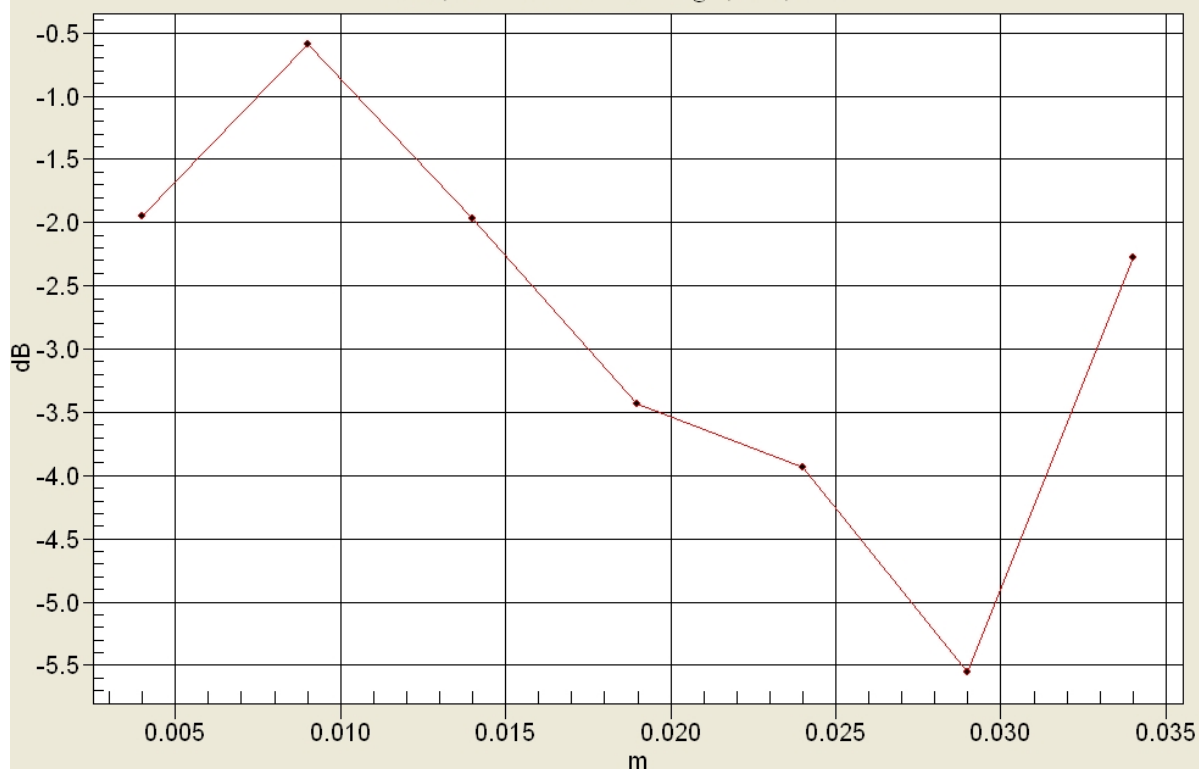


1g/10g Averaged SAR Edge On Left FHSS Bluetooth Test 1

SAR; Zoom Scan: Value Along Z, X=1, Y=4

**1g/10g Averaged SAR Tablet FHSS Bluetooth Test 1**

SAR; Zoom Scan: Value Along Z, X=5, Y=5



Test Date: 02 July 2008

File Name: [Validation 2450 MHz \(DAE442 Probe1380\) 02-07-08.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; $\sigma = 1.76$ mho/m; $\epsilon_r = 39.5$; $\rho = 1000$ kg/m³

- 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) = 19.2 mW/g

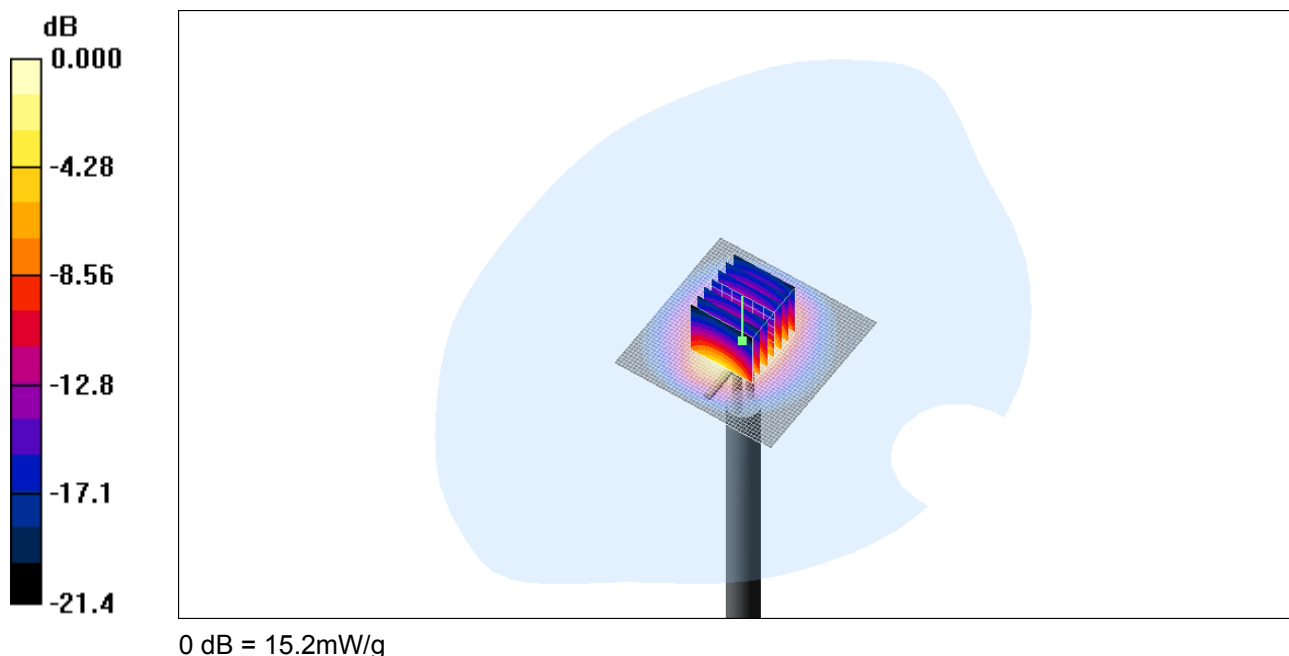
Channel 1 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 97.0 V/m; Power Drift = 0.041 dB

Peak SAR (extrapolated) = 29.4 W/kg

SAR(1 g) = 13.7 mW/g; SAR(10 g) = 6.44 mW/g

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



SAR MEASUREMENT PLOT 9

Ambient Temperature
Liquid Temperature
Humidity

21.7 Degrees Celsius
21.3 Degrees Celsius
41.0 %



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