

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: 5200 MHz Band SAR Measurement Plot Numbers

Test Position	Plot No.	Ant	Bit rate Mode (Mbps)	Channel Bandwidth (MHz)	Test Channel
Edge On Left	1	C	6	-	36
	2		6	-	52
	3		6	-	64
	4	A	6	-	52
Z-Axis graphs for Plots 1 to 4					
Edge On Right	5	B	6	-	36
	6		6	-	52
	7		6	-	64
Z-Axis graphs for Plots 5 to 7					

Table: 5600 MHz Band SAR Measurement Plot Numbers

Test Position	Plot No.	Ant	Bit rate Mode (Mbps)	Channel Bandwidth (MHz)	Test Channel
Tablet	8	A	6	-	120
	9	B	6	-	120
Edge On Left	10	A	6	-	120
Z-Axis graphs for Plots 8 to 10					
Edge On Left	11	C	6	-	100
	12		6	-	120
	13		6	-	140
Z-Axis graphs for Plots 11 to 13					
Edge On Right	14	B	6	-	100
	15		6	-	120
	16		6	-	140
Z-Axis graphs for Plots 14 to 16					



Table: 5800 MHz Band SAR Measurement Plot Numbers

Test Position	Plot No.	Ant	Bit rate Mode (Mbps)	Channel Bandwidth (MHz)	Test Channel
Edge On Left	17	A	6	-	157
	18	C	6	-	149
	19		6	-	157
	20		6	-	165
Z-Axis graphs for Plots 17 to 20					
Edge On Right	21	B	6	-	149
	22		6	-	157
	23		6	-	165
Z-Axis graphs for Plots 21 to 23					

Table: Validation Plots

Plot 24	Validation 5200 MHz 5 th August 2008
Plot 25	Validation 5200 MHz 6 th August 2008
Plot 26	Validation 5500 MHz 4 th August 2008
Plot 27	Validation 5800 MHz 7 th August 2008
Z-Axis graphs for Plots 24 to 27	



Test Date: 05 August 2008

File Name: Edge On Left OFDM 5.2 GHz Antenna C 1dB Attenuation 05-08-08.da4

DUT: Fujitsu Tablet Hibiki with SP 3x3 abgn; Type: HMW_533AN; Serial: MAC: 0016EA16277E

* Communication System: OFDM 5250 MHz; Frequency: 5180 MHz; Duty Cycle: 1:1

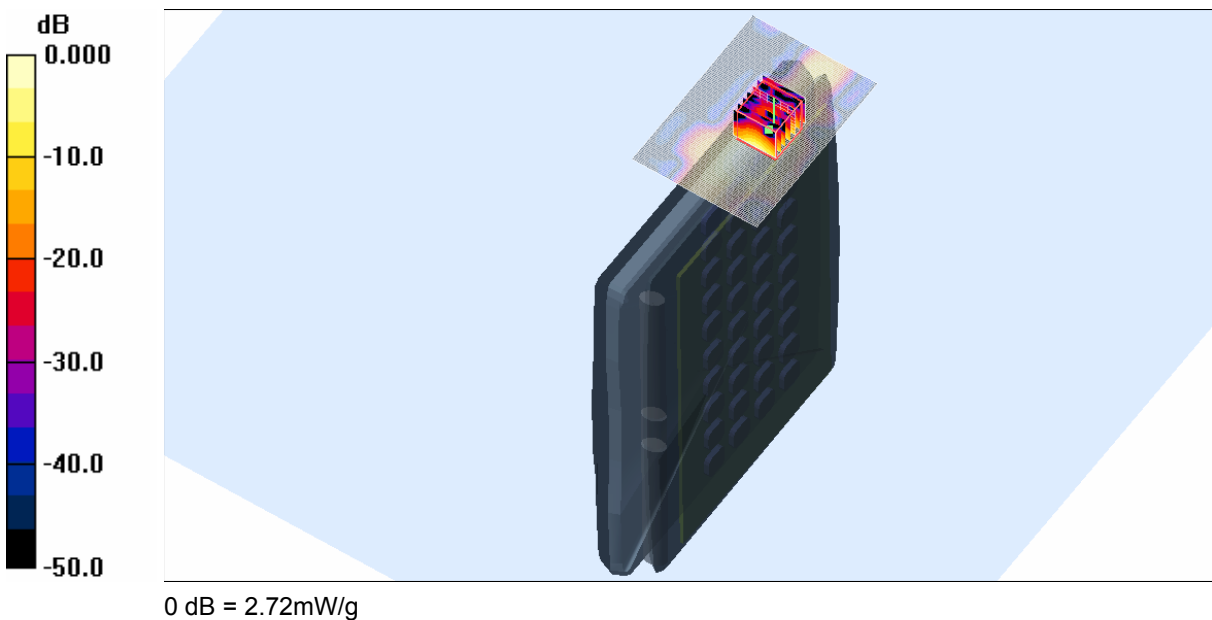
* Medium parameters used: $f = 5173$ MHz; $\sigma = 5.09$ mho/m; $\epsilon_r = 45$; $\rho = 1000$ kg/m³

- Electronics: DAE3 Sn442; Probe: EX3DV4 - SN3563; ConvF(3.72, 3.72, 3.72)

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

Channel 036 Test/Area Scan (71x101x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 3.28 mW/g

Channel 036 Test/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 11.6 V/m; Power Drift = -0.227 dB
Peak SAR (extrapolated) = 5.61 W/kg
SAR(1 g) = 1.19 mW/g; SAR(10 g) = 0.300 mW/g
Maximum value of SAR (measured) = 2.72 mW/g



SAR MEASUREMENT PLOT 1

Ambient Temperature
Liquid Temperature
Humidity

20.3 Degrees Celsius
20.2 Degrees Celsius
34.0 %



Test Date: 05 August 2008

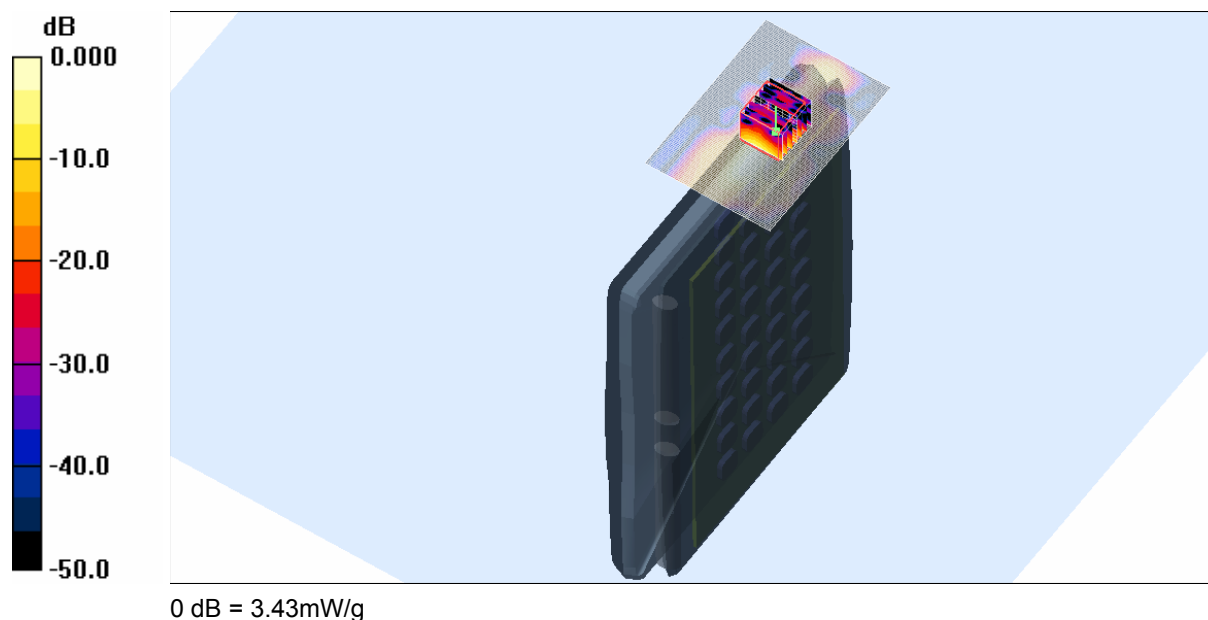
File Name: Edge On Left OFDM 5.2 GHz Antenna C 1dB Attenuation 05-08-08.da4

DUT: Fujitsu Tablet Hibiki with SP 3x3 abgn; Type: HMW_533AN; Serial: MAC: 0016EA16277E

- * Communication System: OFDM 5250 MHz; Frequency: 5260 MHz; Duty Cycle: 1:1
- * Medium parameters used: $f = 5260.6$ MHz; $\sigma = 5.23$ mho/m; $\epsilon_r = 44.8$; $\rho = 1000$ kg/m³
- Electronics: DAE3 Sn442; Probe: EX3DV4 - SN3563; ConvF(3.72, 3.72, 3.72)
- Phantom: Flat Phantom 10.1; Serial: P 10.1; Phantom section: Flat 2.2 Section

Channel 052 Test/Area Scan (71x101x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 4.05 mW/g

Channel 052 Test/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 18.3 V/m; Power Drift = 0.496 dB
Peak SAR (extrapolated) = 7.10 W/kg
SAR(1 g) = 1.4 mW/g; SAR(10 g) = 0.317 mW/g
Maximum value of SAR (measured) = 3.43 mW/g



SAR MEASUREMENT PLOT 2

Ambient Temperature
Liquid Temperature
Humidity

20.3 Degrees Celsius
20.2 Degrees Celsius
34.0 %



Test Date: 05 August 2008

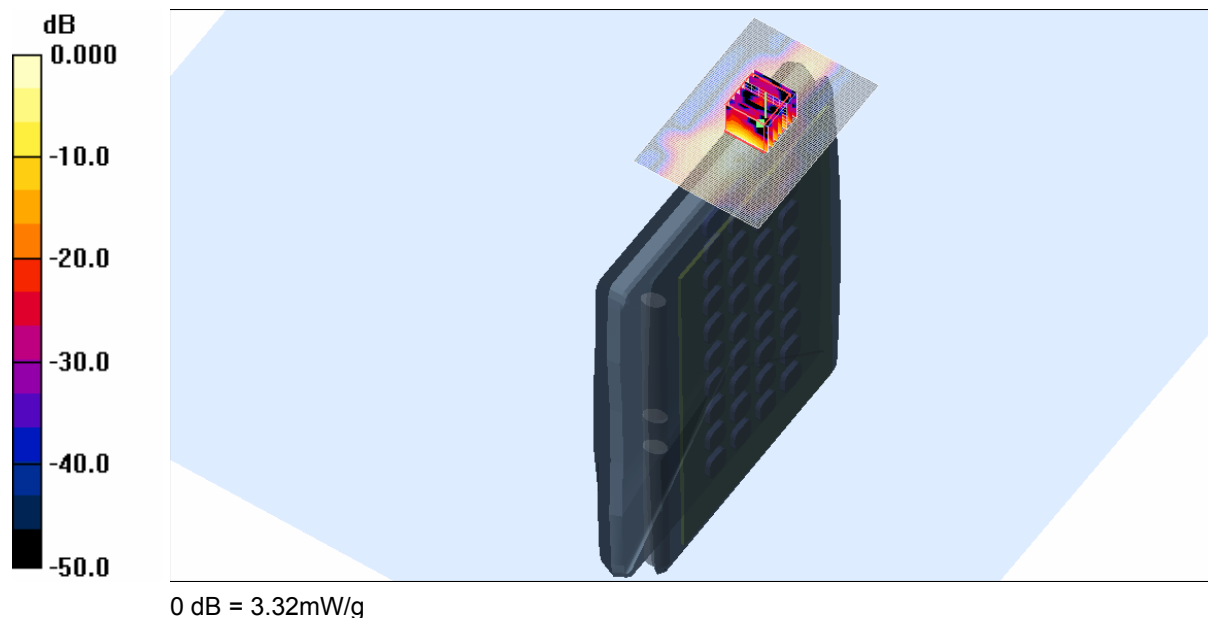
File Name: Edge On Left OFDM 5.2 GHz Antenna C 1dB Attenuation 05-08-08.da4

DUT: Fujitsu Tablet Hibiki with SP 3x3 abgn; Type: HMW_533AN; Serial: MAC: 0016EA16277E

- * Communication System: OFDM 5250 MHz; Frequency: 5320 MHz; Duty Cycle: 1:1
- * Medium parameters used: $f = 5319$ MHz; $\sigma = 5.33$ mho/m; $\epsilon_r = 44.6$; $\rho = 1000$ kg/m³
- Electronics: DAE3 Sn442; Probe: EX3DV4 - SN3563; ConvF(3.72, 3.72, 3.72)
- Phantom: Flat Phantom 10.1; Serial: P 10.1; Phantom section: Flat 2.2 Section

Channel 064 Test/Area Scan (71x101x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 2.58 mW/g

Channel 064 Test/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 21.6 V/m; Power Drift = -0.132 dB
Peak SAR (extrapolated) = 7.55 W/kg
SAR(1 g) = 1.37 mW/g; SAR(10 g) = 0.297 mW/g
Maximum value of SAR (measured) = 3.32 mW/g



SAR MEASUREMENT PLOT 3

Ambient Temperature
Liquid Temperature
Humidity

20.3 Degrees Celsius
20.2 Degrees Celsius
34.0 %



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Test Date: 06 August 2008

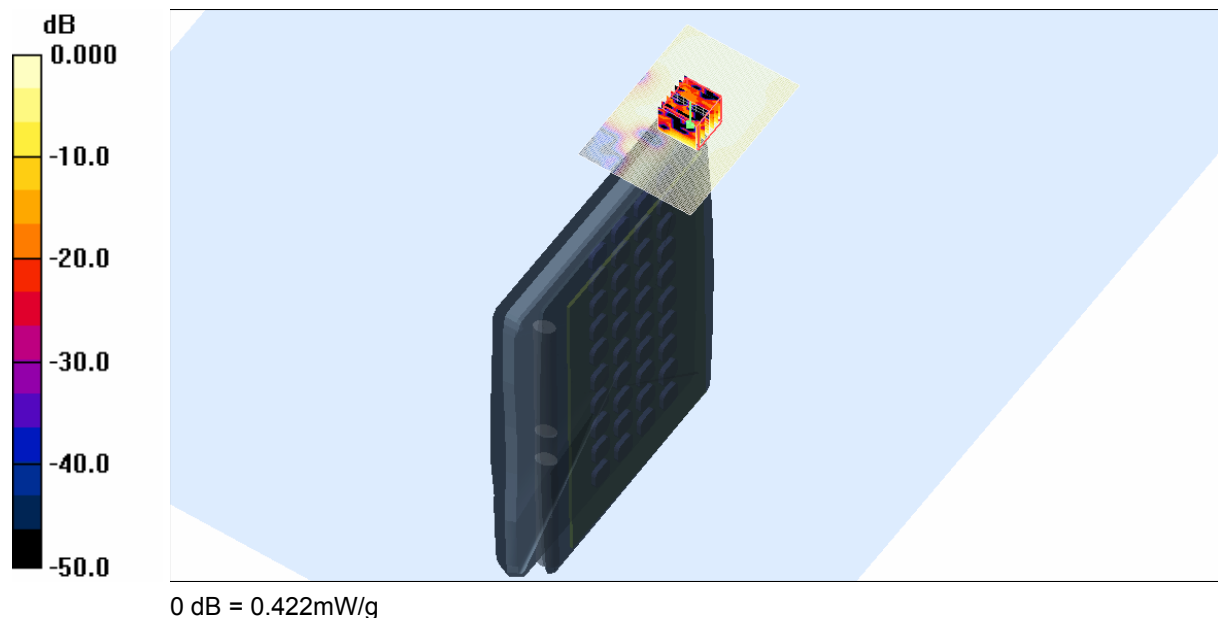
File Name: Edge On Left OFDM 5.2 GHz Antenna A 06-08-08.da4

DUT: Fujitsu Tablet Hibiki with SP 3x3 abgn; Type: HMW_533AN; Serial: MAC: 0016EA16277E

- * Communication System: OFDM 5250 MHz; Frequency: 5260 MHz; Duty Cycle: 1:1
- * Medium parameters used: $f = 5260.6$ MHz; $\sigma = 5.49$ mho/m; $\epsilon_r = 44.3$; $\rho = 1000$ kg/m³
- Electronics: DAE3 Sn442; Probe: EX3DV4 - SN3563; ConvF(3.72, 3.72, 3.72)
- Phantom: Flat Phantom 10.1; Serial: P 10.1; Phantom section: Flat 2.2 Section

Channel 52 Test/Area Scan (71x101x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 0.301 mW/g

Channel 52 Test/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 7.51 V/m; Power Drift = 0.166 dB
Peak SAR (extrapolated) = 0.642 W/kg
SAR(1 g) = 0.179 mW/g; SAR(10 g) = 0.050 mW/g
Maximum value of SAR (measured) = 0.422 mW/g

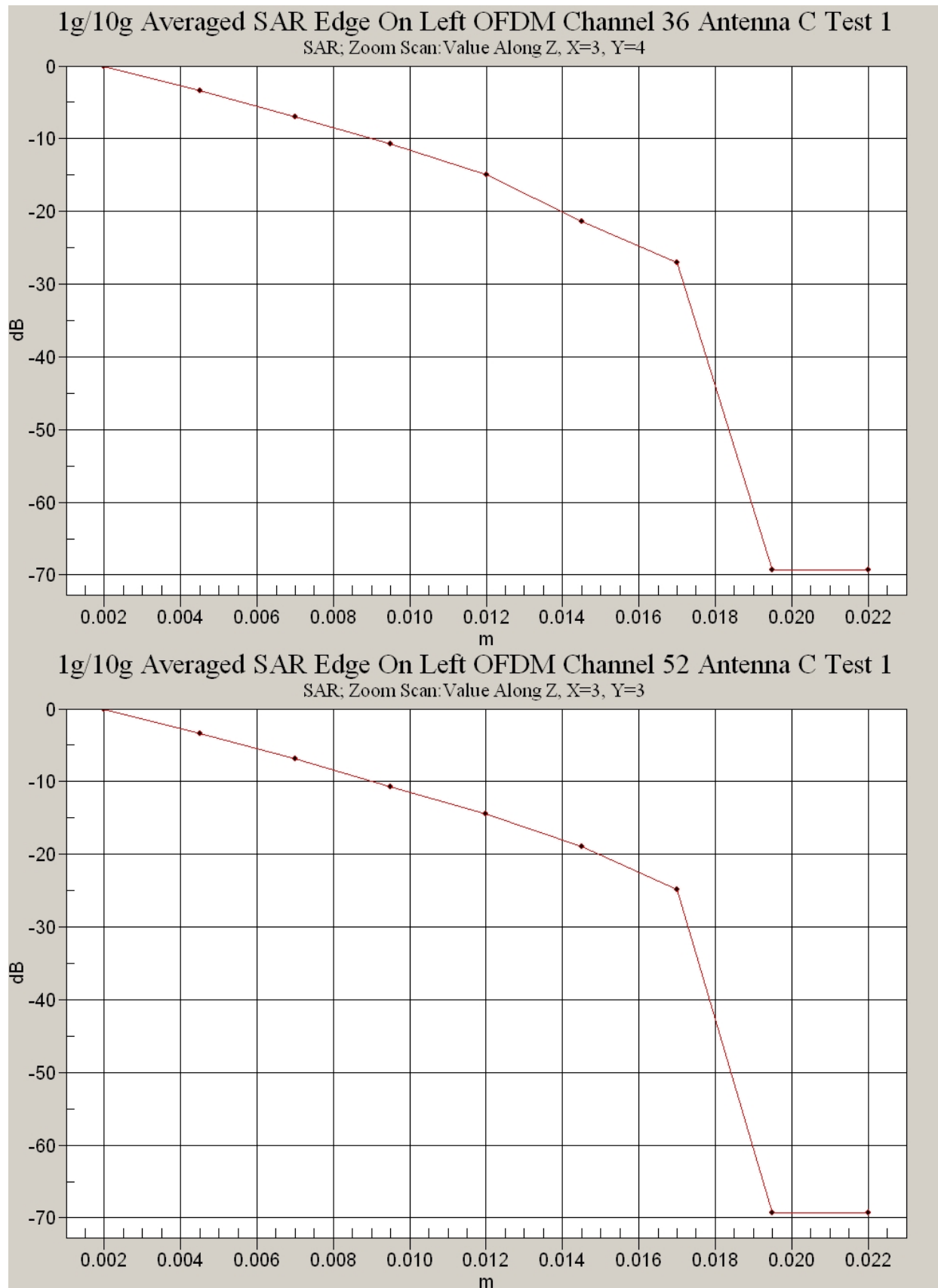


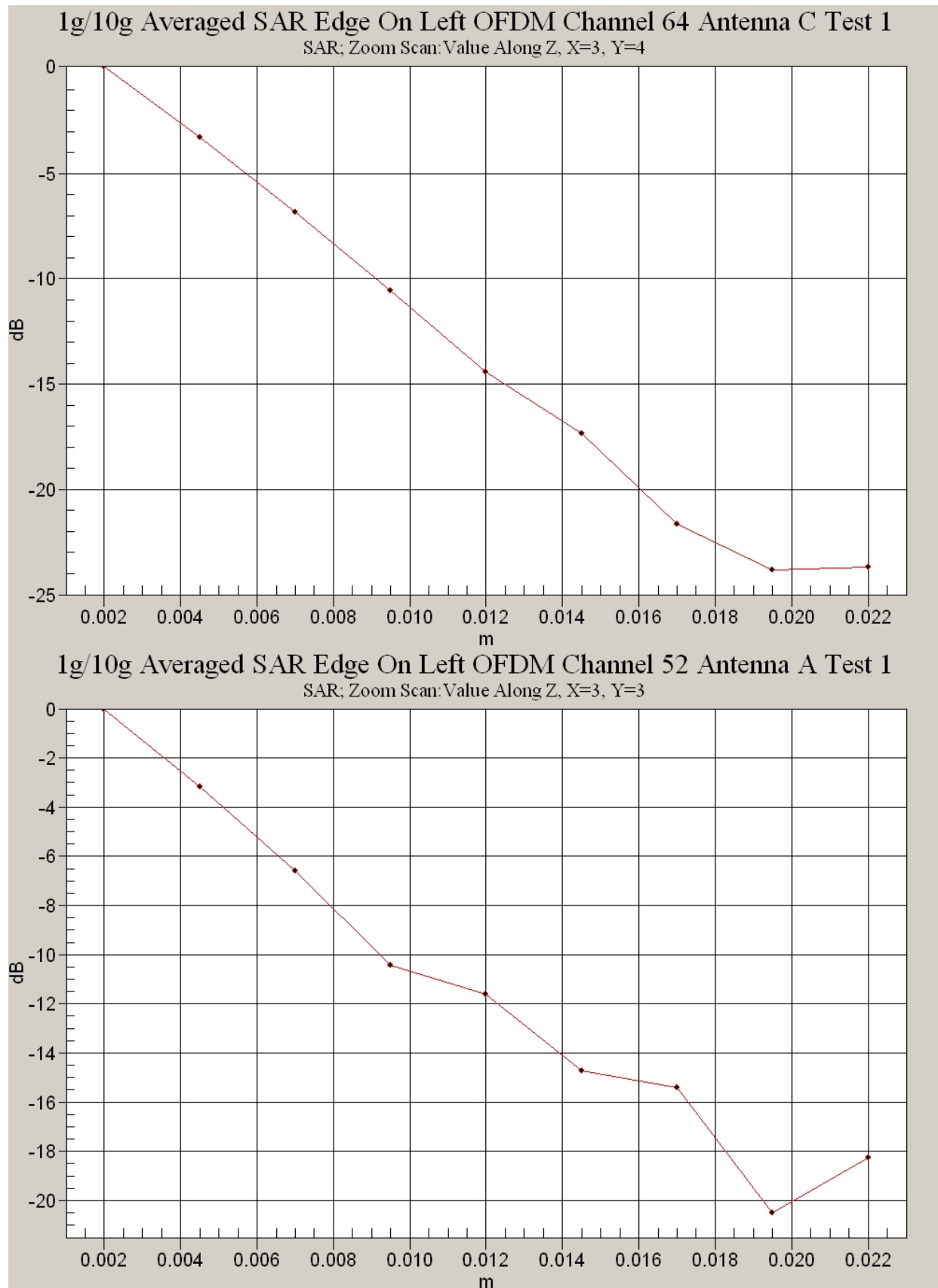
SAR MEASUREMENT PLOT 4

Ambient Temperature
Liquid Temperature
Humidity

20.1 Degrees Celsius
19.8 Degrees Celsius
40.0 %







Test Date: 05 August 2008

File Name: Edge On Right OFDM 5.2 GHz Antenna B 2dB Attenuation 05-08-08.da4

DUT: Fujitsu Tablet Hibiki with SP 3x3 abgn; Type: HMW_533AN; Serial: MAC: 0016EA16277E

* Communication System: OFDM 5250 MHz; Frequency: 5180 MHz; Duty Cycle: 1:1

* Medium parameters used: $f = 5173$ MHz; $\sigma = 5.09$ mho/m; $\epsilon_r = 45$; $\rho = 1000$ kg/m³

- Electronics: DAE3 Sn442; Probe: EX3DV4 - SN3563; ConvF(3.72, 3.72, 3.72)

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

Channel 036 Test/Area Scan (71x101x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 2.29 mW/g

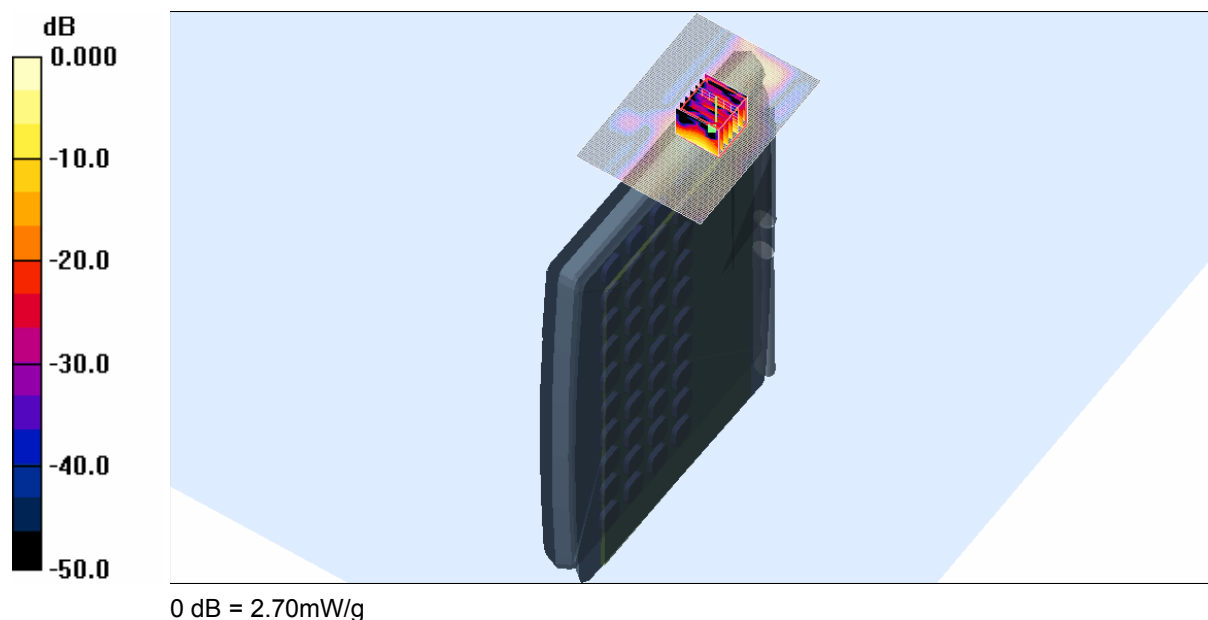
Channel 036 Test/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 8.33 V/m; Power Drift = 0.335 dB

Peak SAR (extrapolated) = 5.49 W/kg

SAR(1 g) = 1.23 mW/g; SAR(10 g) = 0.296 mW/g

Maximum value of SAR (measured) = 2.70 mW/g



SAR MEASUREMENT PLOT 5

Ambient Temperature
Liquid Temperature
Humidity

20.3 Degrees Celsius
20.2 Degrees Celsius
34.0 %



Test Date: 05 August 2008

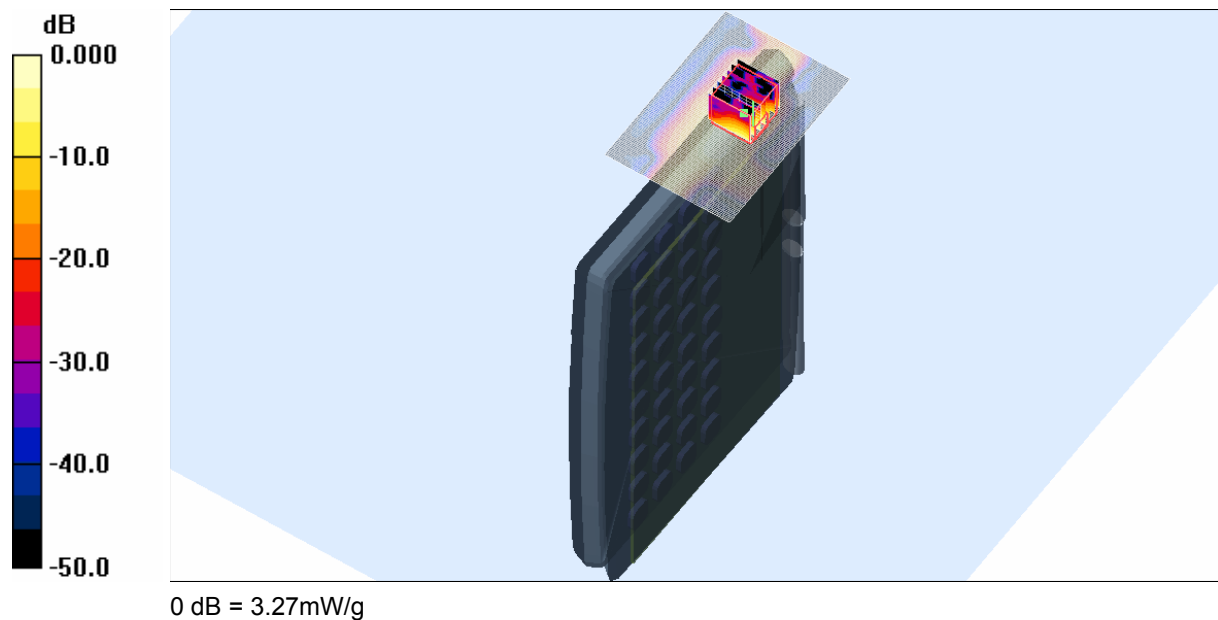
File Name: Edge On Right OFDM 5.2 GHz Antenna B 2dB Attenuation 05-08-08.da4

DUT: Fujitsu Tablet Hibiki with SP 3x3 abgn; Type: HMW_533AN; Serial: MAC: 0016EA16277E

- * Communication System: OFDM 5250 MHz; Frequency: 5260 MHz; Duty Cycle: 1:1
- * Medium parameters used: $f = 5260.6$ MHz; $\sigma = 5.23$ mho/m; $\epsilon_r = 44.8$; $\rho = 1000$ kg/m³
- Electronics: DAE3 Sn442; Probe: EX3DV4 - SN3563; ConvF(3.72, 3.72, 3.72)
- Phantom: Flat Phantom 10.1; Serial: P 10.1; Phantom section: Flat 2.2 Section

Channel 052 Test/Area Scan (71x101x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 3.33 mW/g

Channel 052 Test/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 23.2 V/m; Power Drift = -0.446 dB
Peak SAR (extrapolated) = 6.46 W/kg
SAR(1 g) = 1.43 mW/g; SAR(10 g) = 0.261 mW/g
Maximum value of SAR (measured) = 3.27 mW/g



SAR MEASUREMENT PLOT 6

Ambient Temperature
Liquid Temperature
Humidity

20.3 Degrees Celsius
20.2 Degrees Celsius
34.0 %



Test Date: 05 August 2008

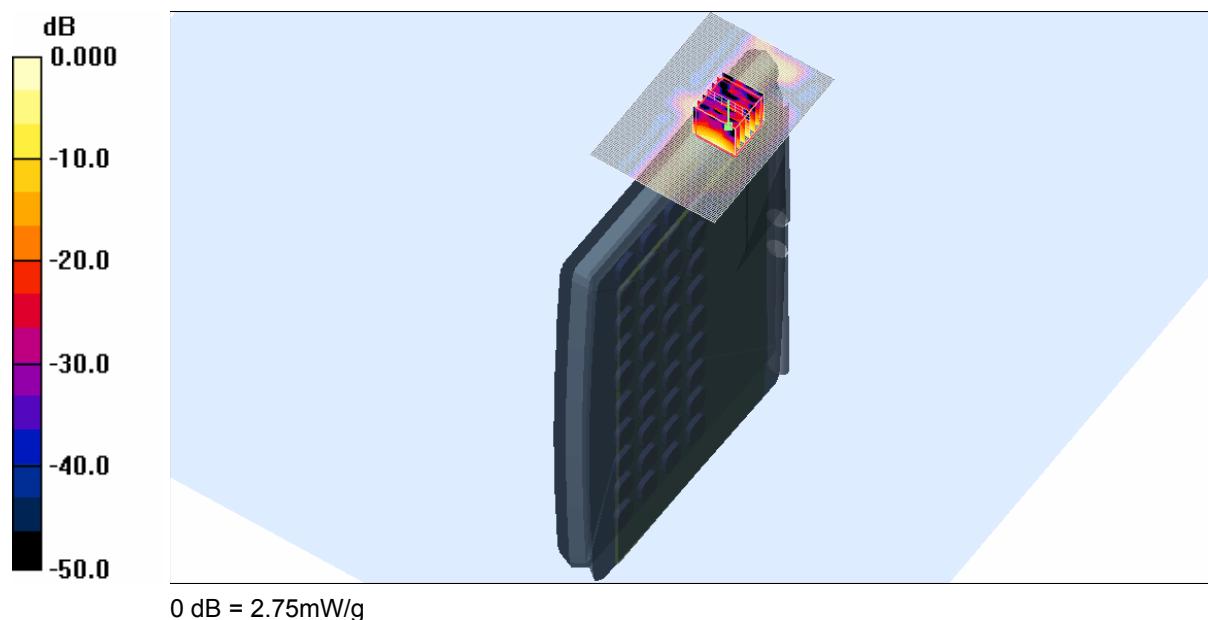
File Name: Edge On Right OFDM 5.2 GHz Antenna B 2dB Attenuation 05-08-08.da4

DUT: Fujitsu Tablet Hibiki with SP 3x3 abgn; Type: HMW_533AN; Serial: MAC: 0016EA16277E

- * Communication System: OFDM 5250 MHz; Frequency: 5320 MHz; Duty Cycle: 1:1
- * Medium parameters used: $f = 5319$ MHz; $\sigma = 5.33$ mho/m; $\epsilon_r = 44.6$; $\rho = 1000$ kg/m³
- Electronics: DAE3 Sn442; Probe: EX3DV4 - SN3563; ConvF(3.72, 3.72, 3.72)
- Phantom: Flat Phantom 10.1; Serial: P 10.1; Phantom section: Flat 2.2 Section

Channel 064 Test/Area Scan (71x101x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 2.55 mW/g

Channel 064 Test/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 8.15 V/m; Power Drift = 0.463 dB
Peak SAR (extrapolated) = 5.57 W/kg
SAR(1 g) = 1.28 mW/g; SAR(10 g) = 0.311 mW/g
Maximum value of SAR (measured) = 2.75 mW/g

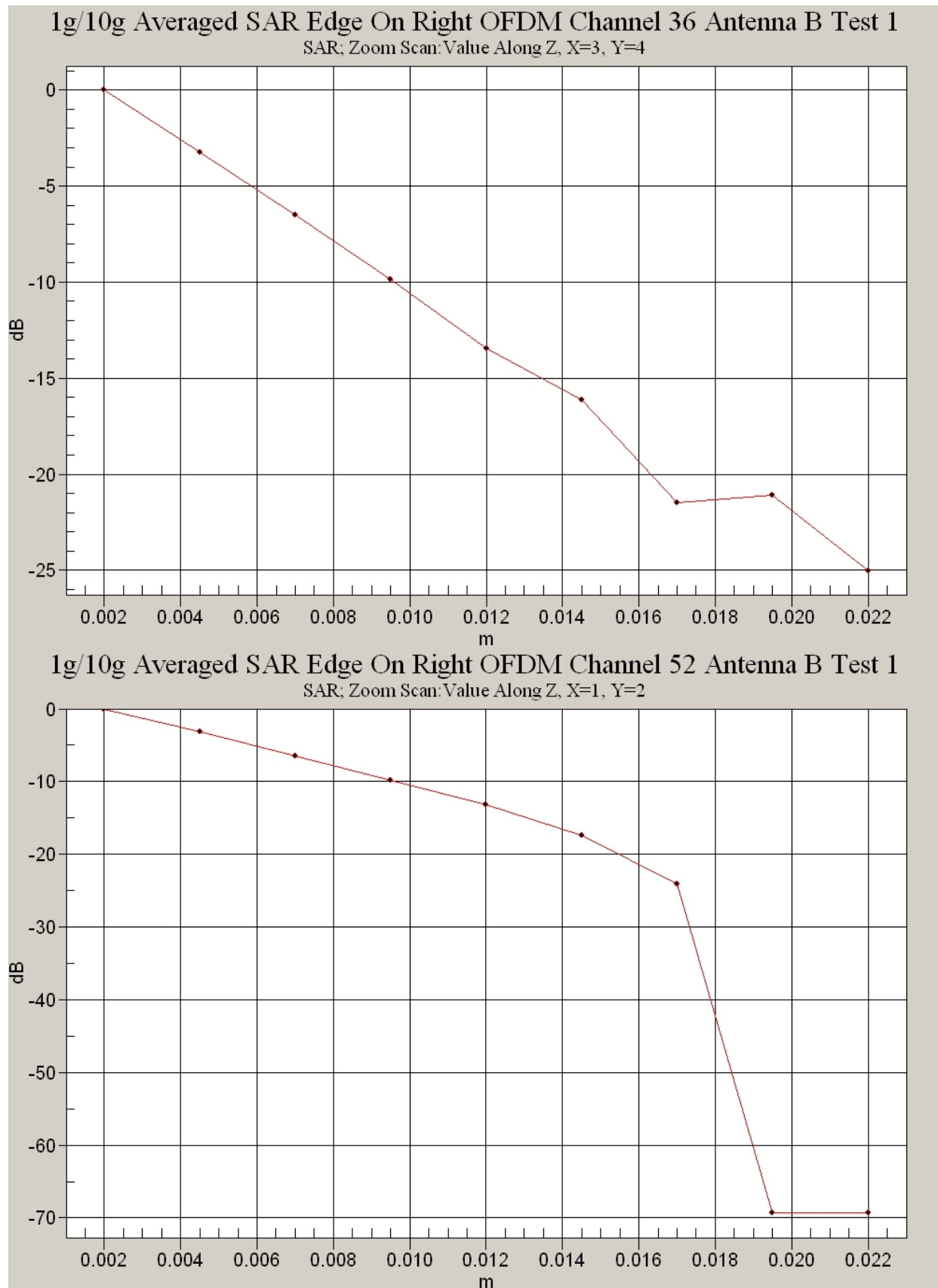


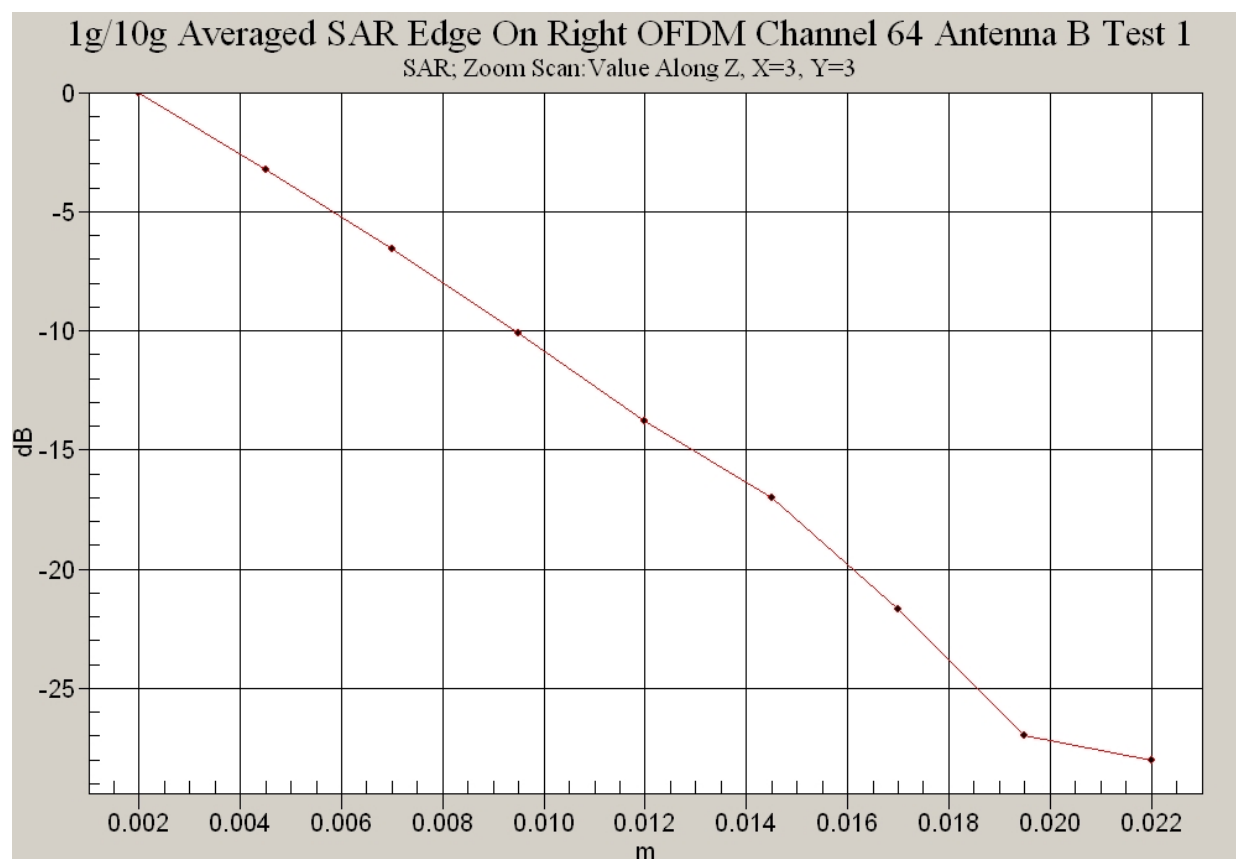
SAR MEASUREMENT PLOT 7

Ambient Temperature
Liquid Temperature
Humidity

20.3 Degrees Celsius
20.2 Degrees Celsius
34.0 %







Test Date: 04 August 2008

File Name: Tablet OFDM 5.6 GHz Antenna A 04-08-08.da4

DUT: Fujitsu Tablet Hibiki with SP 3x3 abgn; Type: HMW_533AN; Serial: MAC: 0016EA16277E

* Communication System: OFDM 5770 MHz EU; Frequency: 5600 MHz; Duty Cycle: 1:1

* Medium parameters used: $f = 5596.4$ MHz; $\sigma = 5.86$ mho/m; $\epsilon_r = 44.5$; $\rho = 1000$ kg/m³

- Electronics: DAE3 Sn442; Probe: EX3DV4 - SN3563; ConvF(3.75, 3.75, 3.75)

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

Channel 120 Test/Area Scan (71x101x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.358 mW/g

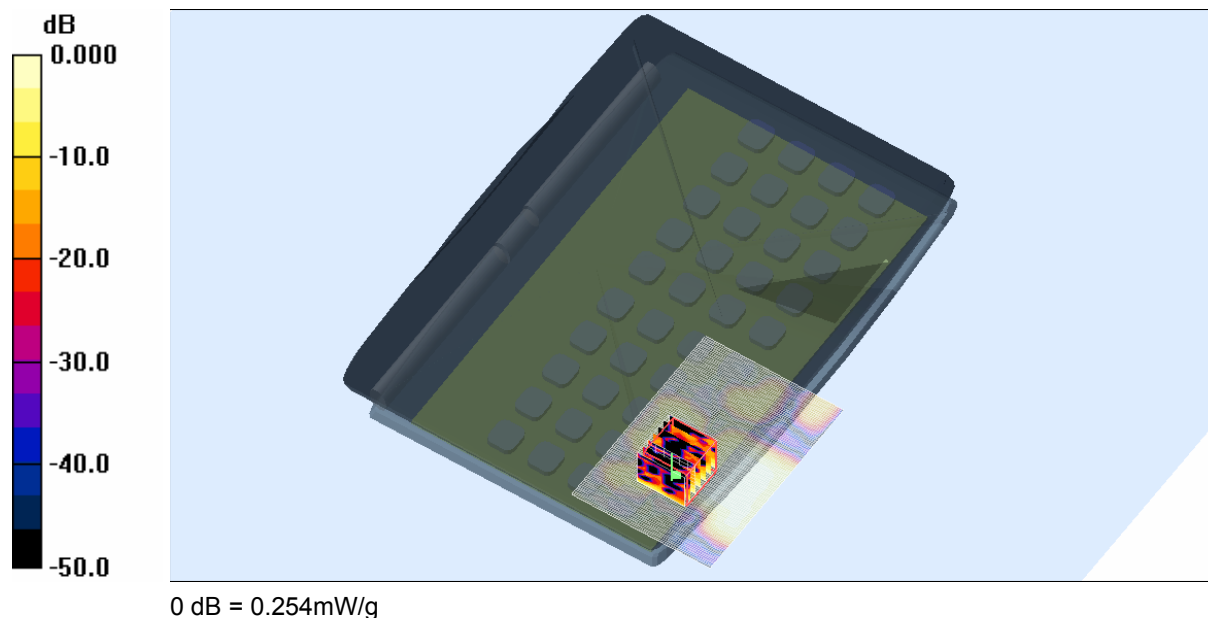
Channel 120 Test/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 4.23 V/m; Power Drift = -0.399 dB

Peak SAR (extrapolated) = 0.439 W/kg

SAR(1 g) = 0.099 mW/g; SAR(10 g) = 0.031 mW/g

Maximum value of SAR (measured) = 0.254 mW/g



SAR MEASUREMENT PLOT 8

Ambient Temperature
Liquid Temperature
Humidity

20.7 Degrees Celsius
20.3 Degrees Celsius
41.0 %



Test Date: 04 August 2008

File Name: Tablet OFDM 5.6 GHz Antenna B 04-08-08.da4

DUT: Fujitsu Tablet Hibiki with SP 3x3 abgn; Type: HMW_533AN; Serial: MAC: 0016EA16277E

* Communication System: OFDM 5770 MHz EU; Frequency: 5600 MHz; Duty Cycle: 1:1

* Medium parameters used: $f = 5596.4$ MHz; $\sigma = 5.86$ mho/m; $\epsilon_r = 44.5$; $\rho = 1000$ kg/m³

- Electronics: DAE3 Sn442; Probe: EX3DV4 - SN3563; ConvF(3.75, 3.75, 3.75)

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

Channel 120 Test/Area Scan (101x81x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.181 mW/g

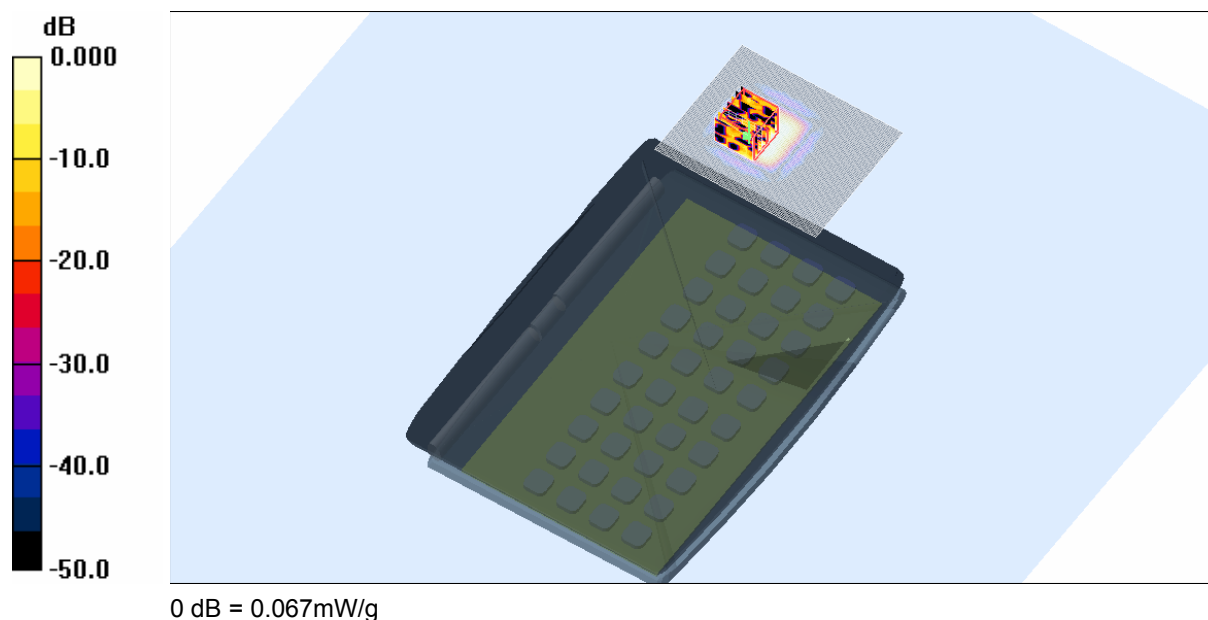
Channel 120 Test/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 2.95 V/m; Power Drift = -0.122 dB

Peak SAR (extrapolated) = 0.323 W/kg

SAR(1 g) = 0.032 mW/g; SAR(10 g) = 0.011 mW/g

Maximum value of SAR (measured) = 0.067 mW/g



SAR MEASUREMENT PLOT 9

Ambient Temperature
Liquid Temperature
Humidity

20.7 Degrees Celsius
20.3 Degrees Celsius
41.0 %



Test Date: 04 August 2008

File Name: Edge On Left OFDM 5.6 GHz Antenna A 04-08-08.da4

DUT: Fujitsu Tablet Hibiki with SP 3x3 abgn; Type: HMW_533AN; Serial: MAC: 0016EA16277E

* Communication System: OFDM 5770 MHz EU; Frequency: 5600 MHz; Duty Cycle: 1:1

* Medium parameters used: $f = 5596.4$ MHz; $\sigma = 5.86$ mho/m; $\epsilon_r = 44.5$; $\rho = 1000$ kg/m³

- Electronics: DAE3 Sn442; Probe: EX3DV4 - SN3563; ConvF(3.75, 3.75, 3.75)

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

Channel 120 Test/Area Scan (71x101x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.371 mW/g

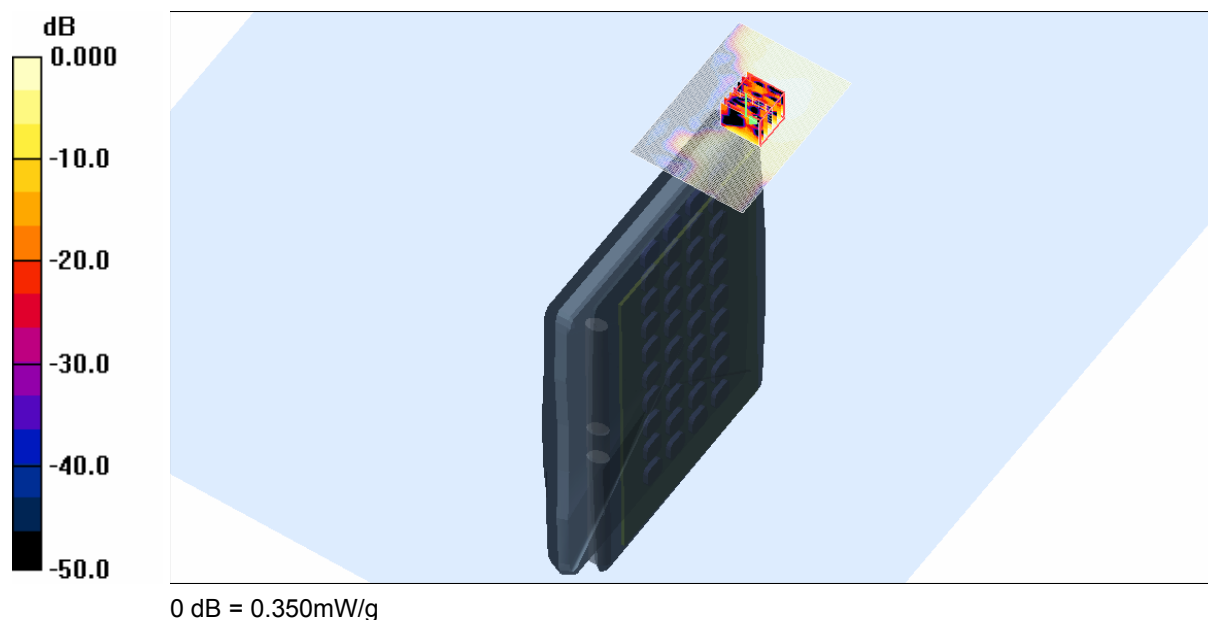
Channel 120 Test/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 1.62 V/m; Power Drift = 0.156 dB

Peak SAR (extrapolated) = 0.657 W/kg

SAR(1 g) = 0.144 mW/g; SAR(10 g) = 0.044 mW/g

Maximum value of SAR (measured) = 0.350 mW/g

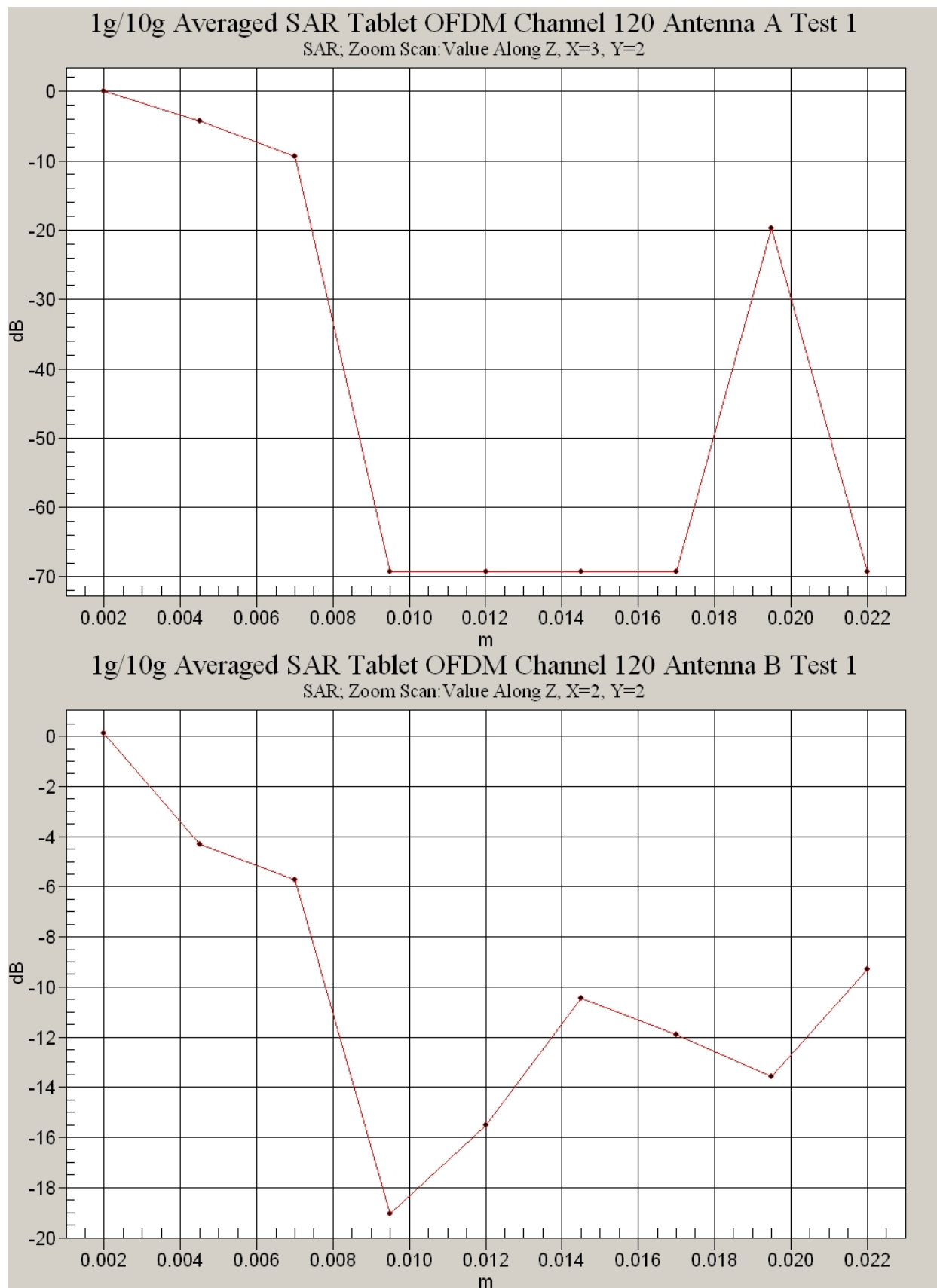


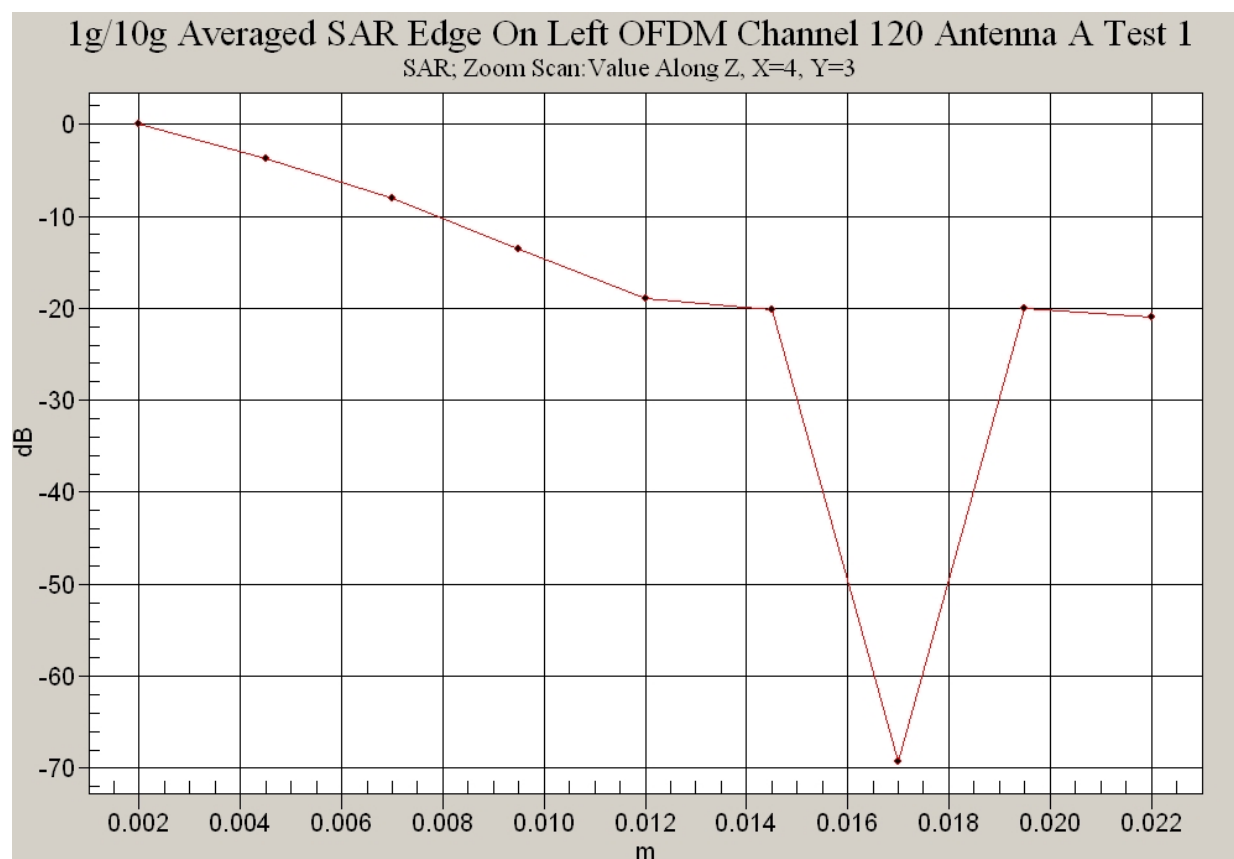
SAR MEASUREMENT PLOT 10

Ambient Temperature
Liquid Temperature
Humidity

20.7 Degrees Celsius
20.3 Degrees Celsius
41.0 %







Test Date: 04 August 2008

File Name: Edge On Left OFDM 5.6 GHz Antenna C 1dB Attenuation 04-08-08.da4

DUT: Fujitsu Tablet Hibiki with SP 3x3 abgn; Type: HMW_533AN; Serial: MAC: 0016EA16277E

* Communication System: OFDM 5770 MHz EU; Frequency: 5500 MHz; Duty Cycle: 1:1

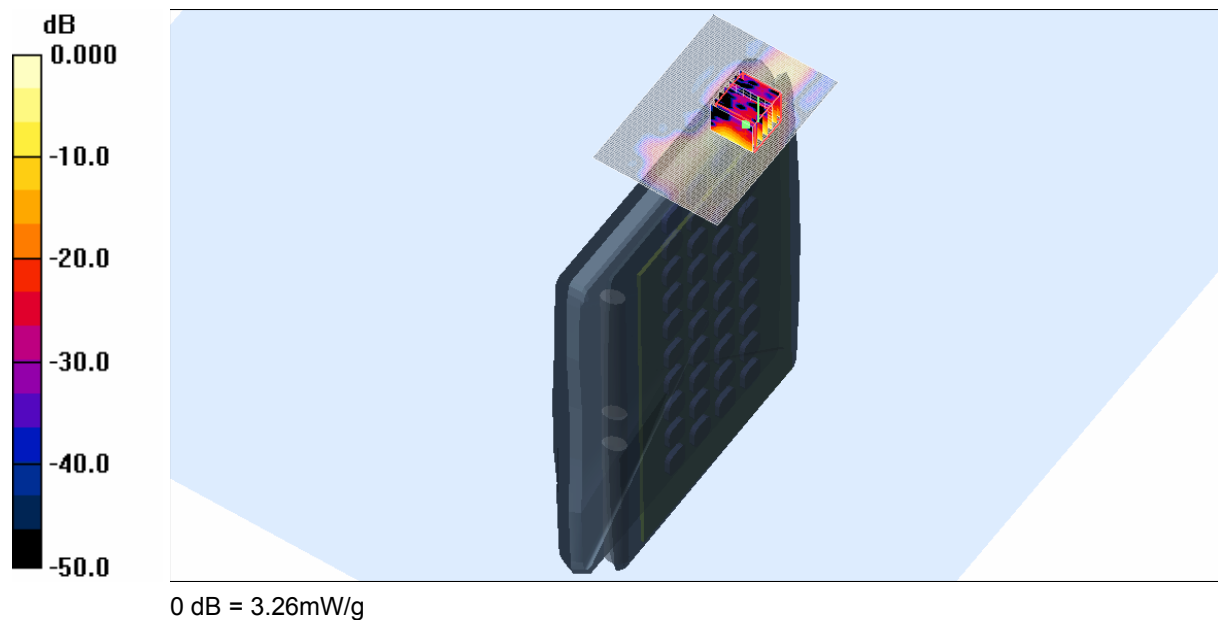
* Medium parameters used: $f = 5494.2$ MHz; $\sigma = 5.68$ mho/m; $\epsilon_r = 44.8$; $\rho = 1000$ kg/m³

- Electronics: DAE3 Sn442; Probe: EX3DV4 - SN3563; ConvF(3.75, 3.75, 3.75)

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

Channel 100 Test/Area Scan (71x101x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 3.02 mW/g

Channel 100 Test/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 5.88 V/m; Power Drift = -0.136 dB
Peak SAR (extrapolated) = 8.61 W/kg
SAR(1 g) = 1.43 mW/g; SAR(10 g) = 0.290 mW/g
Maximum value of SAR (measured) = 3.26 mW/g



SAR MEASUREMENT PLOT 11

Ambient Temperature
Liquid Temperature
Humidity

20.7 Degrees Celsius
20.3 Degrees Celsius
41.0 %



Test Date: 04 August 2008

File Name: Edge On Left OFDM 5.6 GHz Antenna C 1dB Attenuation 04-08-08.da4

DUT: Fujitsu Tablet Hibiki with SP 3x3 abgn; Type: HMW_533AN; Serial: MAC: 0016EA16277E

* Communication System: OFDM 5770 MHz EU; Frequency: 5600 MHz; Duty Cycle: 1:1

* Medium parameters used: $f = 5596.4$ MHz; $\sigma = 5.86$ mho/m; $\epsilon_r = 44.5$; $\rho = 1000$ kg/m³

- Electronics: DAE3 Sn442; Probe: EX3DV4 - SN3563; ConvF(3.75, 3.75, 3.75)

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

Channel 120 Test/Area Scan (71x101x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 2.66 mW/g

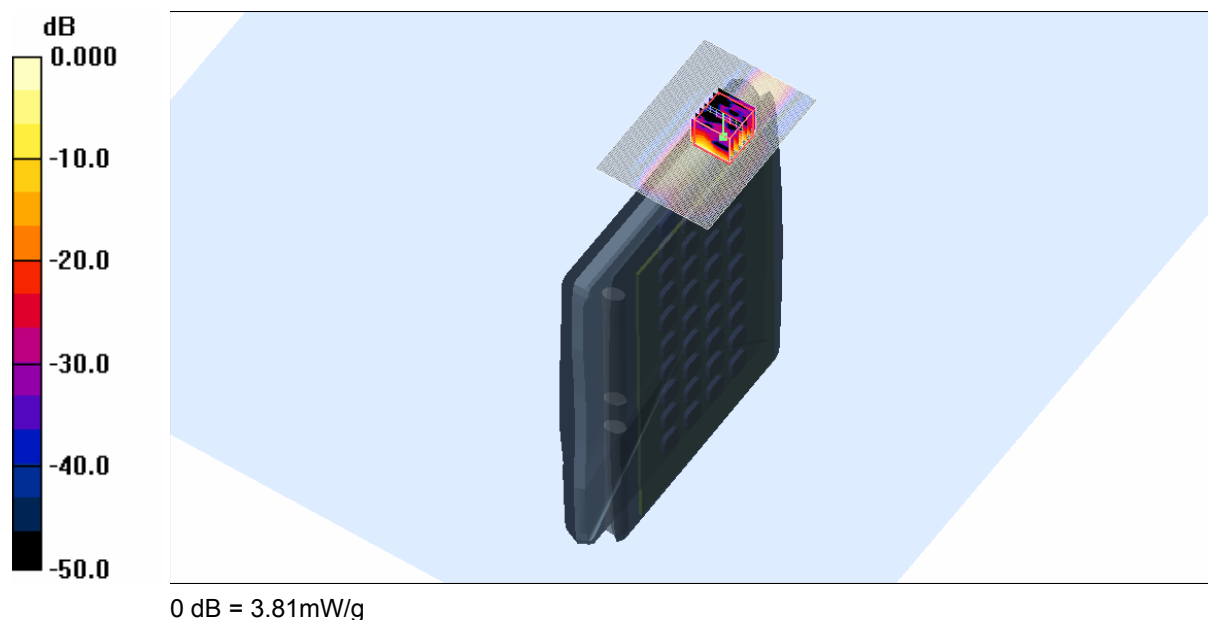
Channel 120 Test/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 10.0 V/m; Power Drift = -0.344 dB

Peak SAR (extrapolated) = 9.32 W/kg

SAR(1 g) = 1.46 mW/g; SAR(10 g) = 0.292 mW/g

Maximum value of SAR (measured) = 3.81 mW/g



SAR MEASUREMENT PLOT 12

Ambient Temperature
Liquid Temperature
Humidity

20.7 Degrees Celsius
20.3 Degrees Celsius
41.0 %



Test Date: 04 August 2008

File Name: Edge On Left OFDM 5.6 GHz Antenna C 1dB Attenuation 04-08-08.da4

DUT: Fujitsu Tablet Hibiki with SP 3x3 abgn; Type: HMW_533AN; Serial: MAC: 0016EA16277E

* Communication System: OFDM 5770 MHz EU; Frequency: 5700 MHz; Duty Cycle: 1:1

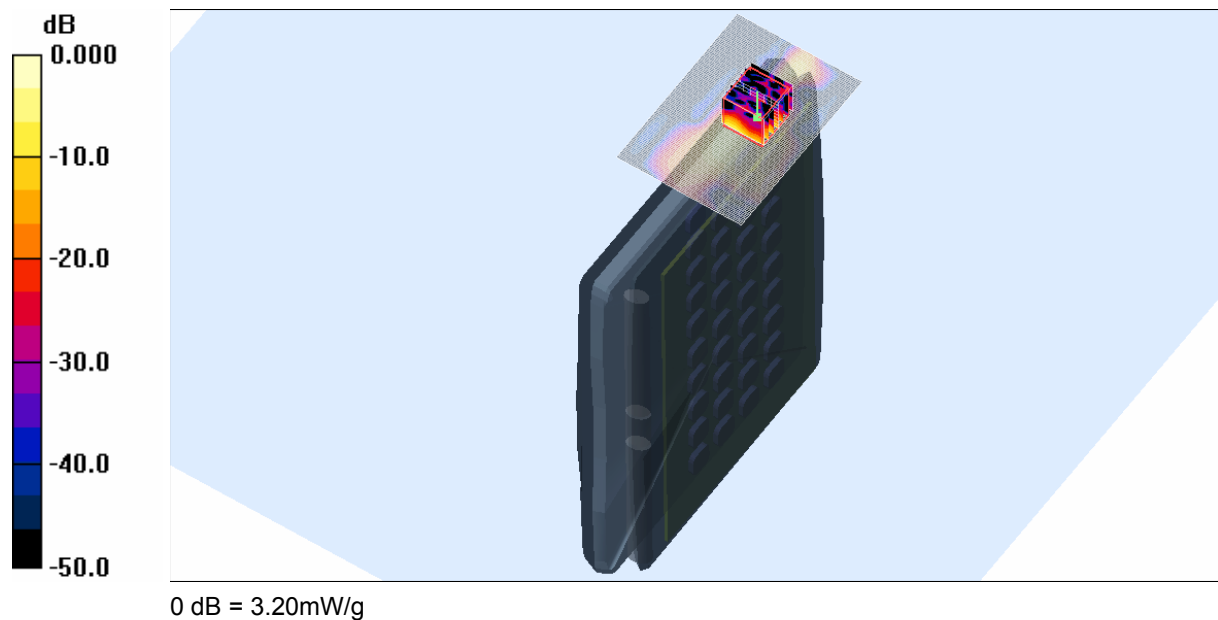
* Medium parameters used: $f = 5698.6$ MHz; $\sigma = 6.03$ mho/m; $\epsilon_r = 44.2$; $\rho = 1000$ kg/m³

- Electronics: DAE3 Sn442; Probe: EX3DV4 - SN3563; ConvF(3.75, 3.75, 3.75)

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

Channel 140 Test/Area Scan (71x101x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 2.62 mW/g

Channel 140 Test/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 14.1 V/m; Power Drift = 0.343 dB
Peak SAR (extrapolated) = 8.15 W/kg
SAR(1 g) = 1.34 mW/g; SAR(10 g) = 0.264 mW/g
Maximum value of SAR (measured) = 3.20 mW/g



SAR MEASUREMENT PLOT 13

Ambient Temperature
Liquid Temperature
Humidity

20.7 Degrees Celsius
20.3 Degrees Celsius
41.0 %



