

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 DSSS Band SAR Measurement Plot Numbers

Test Position	Plot No.	Antenna	Bit rate Mode (Mbps)	Channel Bandwidth (MHz)	Test Channel
Primary Portrait	1	A	1	-	06

Table: 2450 MHz OFDM Band SAR Measurement Plot Numbers

Test Position	Plot No.	Antenna	Bit rate Mode (Mbps)	Channel Bandwidth (MHz)	Test Channel
Primary Portrait	2	A	MCS0	20	06
	3		MCS0	40	
	4		6	-	
Secondary Portrait	5	B	MCS0	20	01
	6				06
	7				11
Secondary Landscape	8	A			06
	9	B			06
Tablet	10	A	MCS0	20	06
	-	B			

Table: 2450MHz Validation Plot

Plot 11	Validation 2450 MHz 26 th March 2010
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Test Date: 26 February 2010

File Name: M100216 Primary Portrait DSSS 2.4 GHz Antenna A (1) 26-02-10.da4

DUT: Fujitsu Tablet Curlin with HB97 11abg; Type: AR5B97; Serial: ZX9X97370

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

* Medium parameters used: $f = 2438$ MHz; $\sigma = 1.98$ mho/m; $\epsilon_r = 50.7$; $\rho = 1000$ kg/m³

- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1380; ConvF(4.11, 4.11, 4.11)

- 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) = 0.321 mW/g

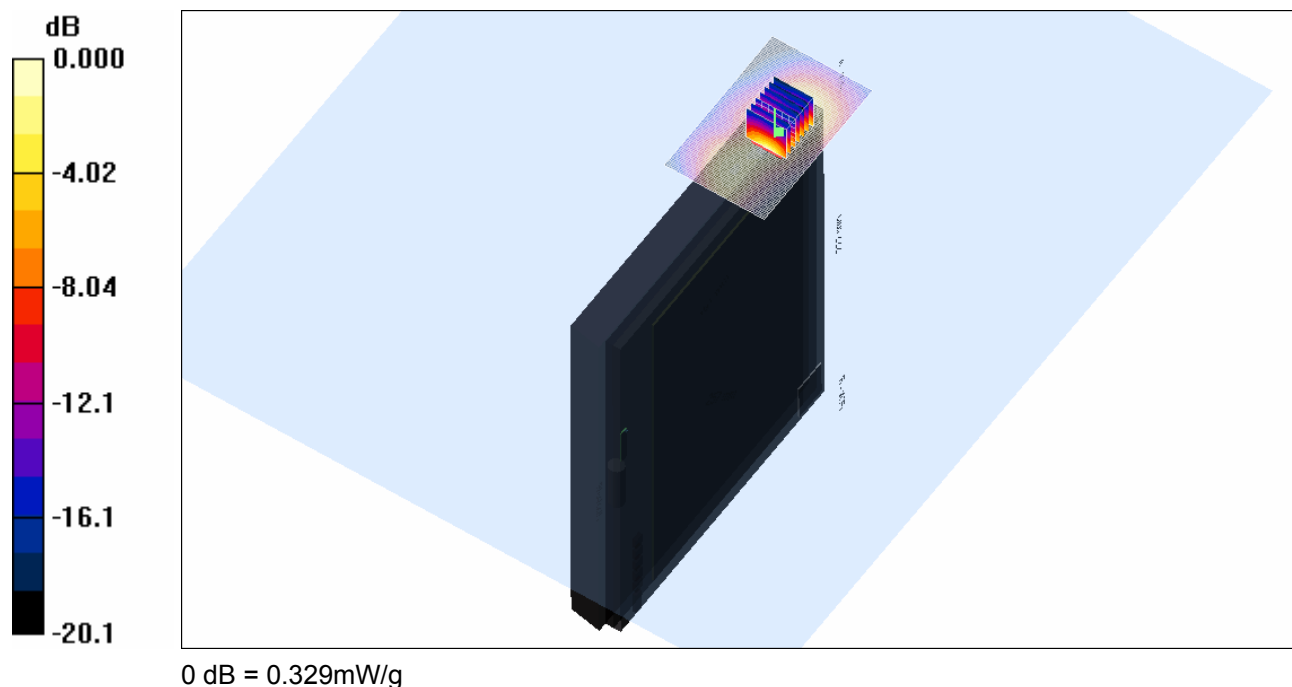
Channel 6 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 11.7 V/m; Power Drift = -0.130 dB

Peak SAR (extrapolated) = 0.696 W/kg

SAR(1 g) = 0.291 mW/g; SAR(10 g) = 0.142 mW/g

Maximum value of SAR (measured) = 0.329 mW/g



SAR MEASUREMENT PLOT 1

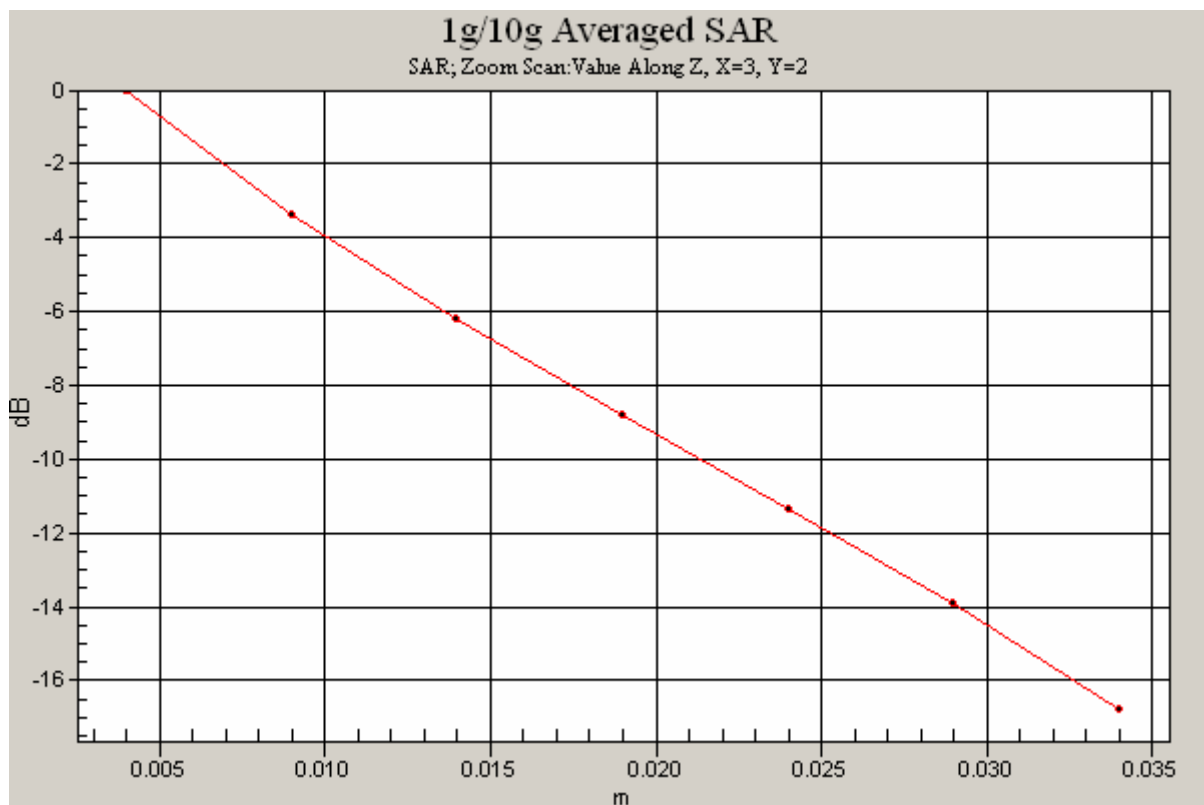
Ambient Temperature
Liquid Temperature
Humidity

20.1 Degrees Celsius
19.8 Degrees Celsius
61.0 %



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Test Date: 26 February 2010

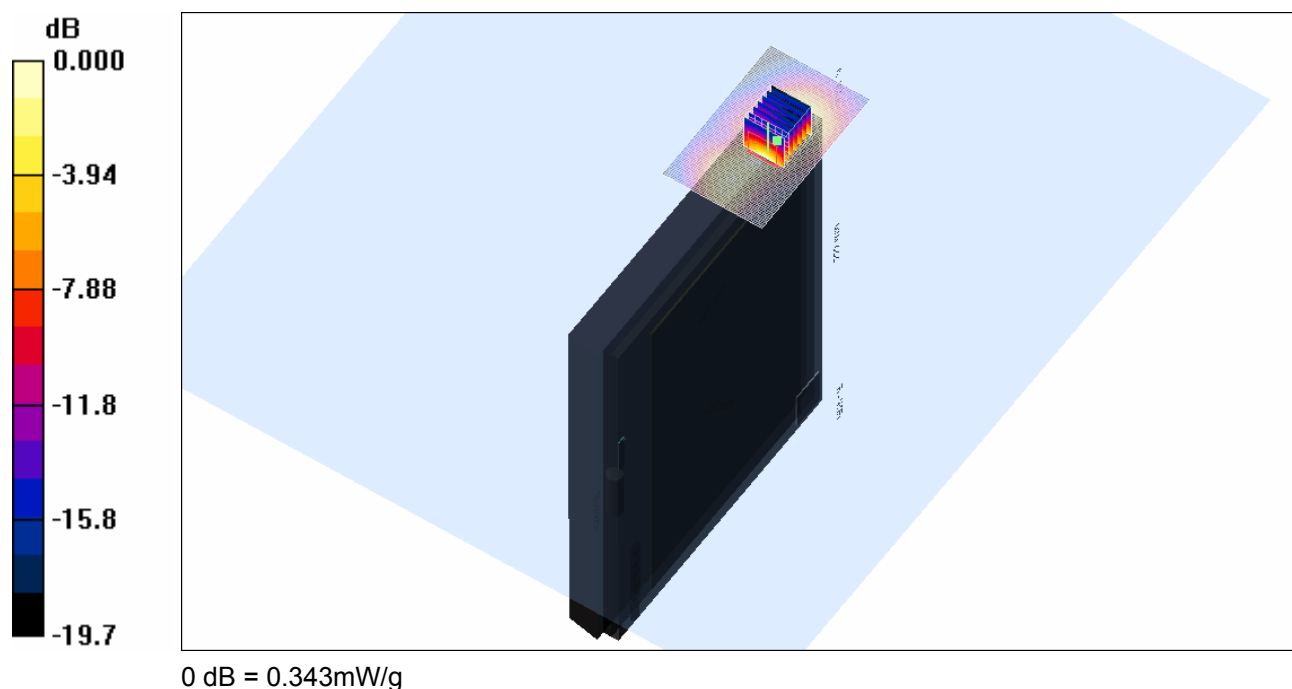
File Name: M100216 Primary Portrait MCS0-20MHz 2.4 GHz Antenna A (1) 26-02-10.da4

DUT: Fujitsu Tablet Curlin with HB97 11abg; Type: AR5B97; Serial: ZX9X97370

- * Communication System: OFDM 2450 MHz; Frequency: 2437 MHz; Duty Cycle: 1:1
- * Medium parameters used: $f = 2438$ MHz; $\sigma = 1.98$ mho/m; $\epsilon_r = 50.7$; $\rho = 1000$ kg/m³
- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1380; ConvF(4.11, 4.11, 4.11)
- 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) = 0.343 mW/g

Channel 6 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 12.3 V/m; Power Drift = -0.245 dB
Peak SAR (extrapolated) = 0.735 W/kg
SAR(1 g) = 0.305 mW/g; SAR(10 g) = 0.149 mW/g
Maximum value of SAR (measured) = 0.343 mW/g



SAR MEASUREMENT PLOT 2

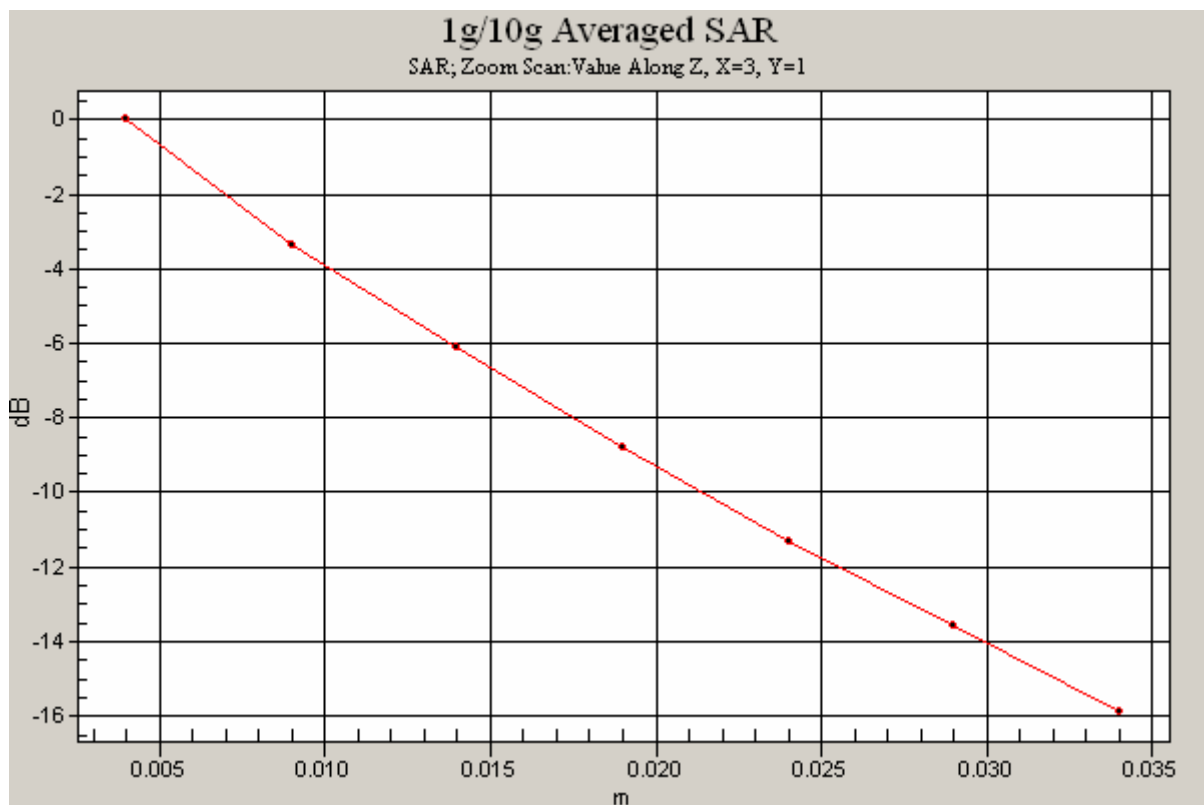
Ambient Temperature
Liquid Temperature
Humidity

20.1 Degrees Celsius
19.8 Degrees Celsius
61.0 %



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Test Date: 26 February 2010

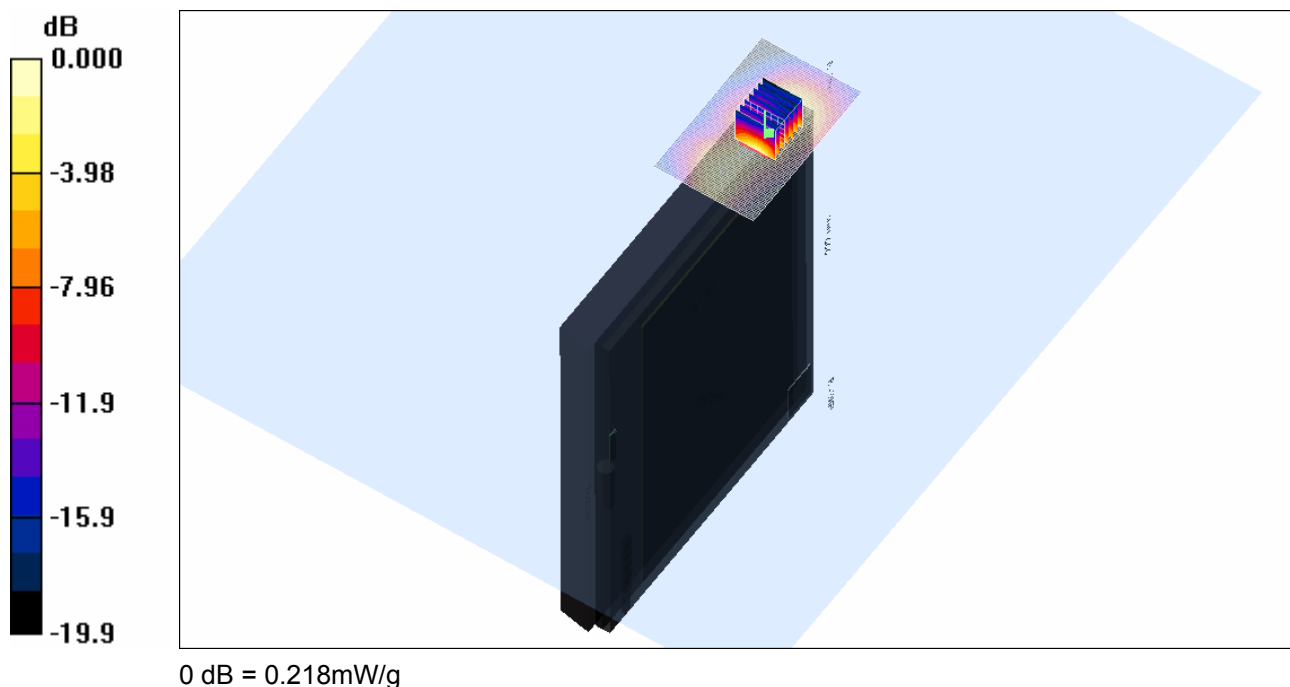
File Name: M100216 Primary Portrait MCS0-40MHz 2.4 GHz Antenna A (1) 26-02-10.da4

DUT: Fujitsu Tablet Curlin with HB97 11abg; Type: AR5B97; Serial: ZX9X97370

- * Communication System: OFDM 2450 MHz; Frequency: 2437 MHz; Duty Cycle: 1:1
- * Medium parameters used: $f = 2438$ MHz; $\sigma = 1.98$ mho/m; $\epsilon_r = 50.7$; $\rho = 1000$ kg/m³
- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1380; ConvF(4.11, 4.11, 4.11)
- 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) = 0.215 mW/g

Channel 6 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 9.85 V/m; Power Drift = -0.401 dB
Peak SAR (extrapolated) = 0.462 W/kg
SAR(1 g) = 0.192 mW/g; SAR(10 g) = 0.093 mW/g
Maximum value of SAR (measured) = 0.218 mW/g



SAR MEASUREMENT PLOT 3

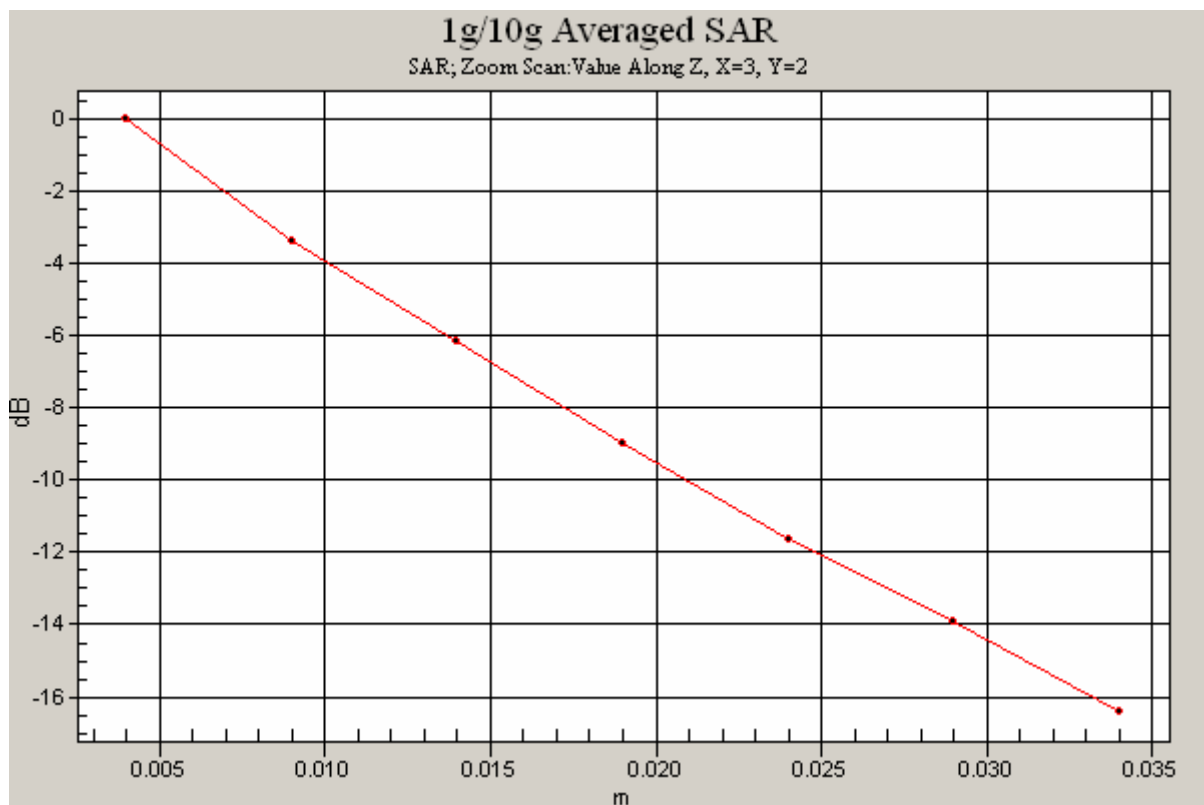
Ambient Temperature
Liquid Temperature
Humidity

20.1 Degrees Celsius
19.8 Degrees Celsius
61.0 %



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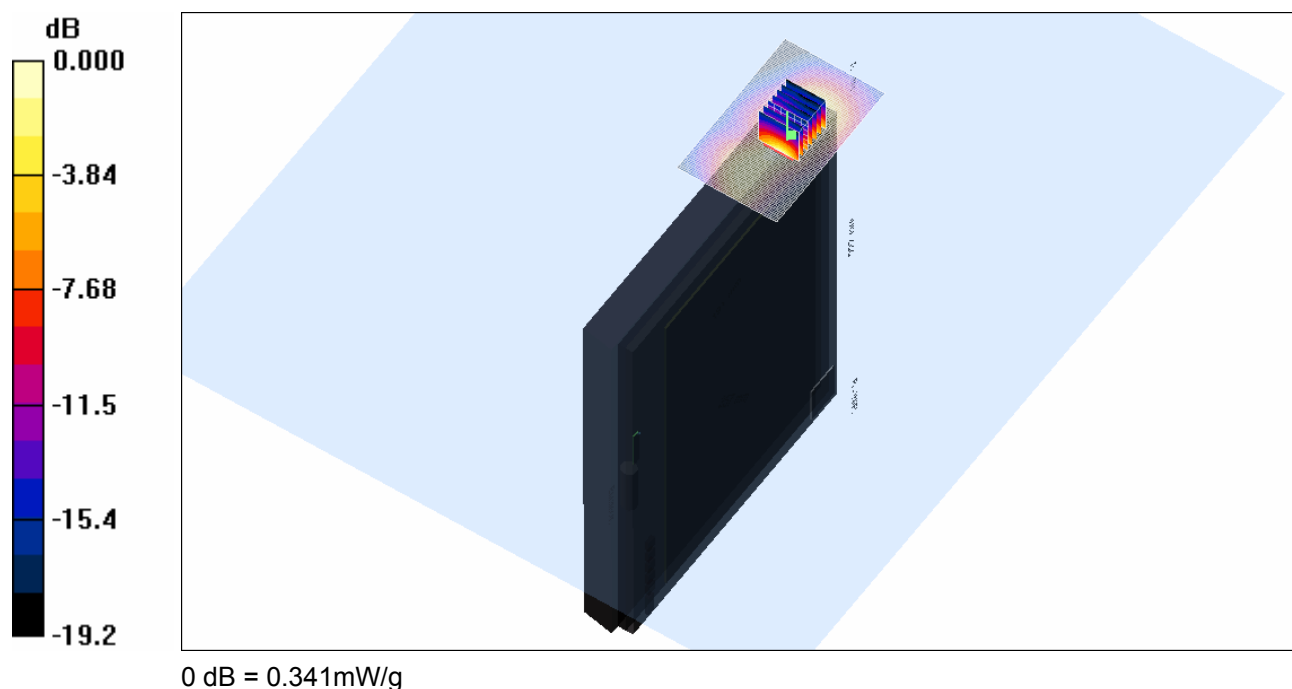
File Name: M100216 Primary Portrait OFDM 2.4 GHz Antenna A (1) 26-02-10.da4

DUT: Fujitsu Tablet Curlin with HB97 11abg; Type: AR5B97; Serial: ZX9X97370

- * Communication System: OFDM 2450 MHz; Frequency: 2437 MHz; Duty Cycle: 1:1
- * Medium parameters used: $f = 2438$ MHz; $\sigma = 1.98$ mho/m; $\epsilon_r = 50.7$; $\rho = 1000$ kg/m³
- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1380; ConvF(4.11, 4.11, 4.11)
- 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) = 0.336 mW/g

Channel 6 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 11.9 V/m; Power Drift = 0.064 dB
Peak SAR (extrapolated) = 0.728 W/kg
SAR(1 g) = 0.301 mW/g; SAR(10 g) = 0.147 mW/g
Maximum value of SAR (measured) = 0.341 mW/g



SAR MEASUREMENT PLOT 4

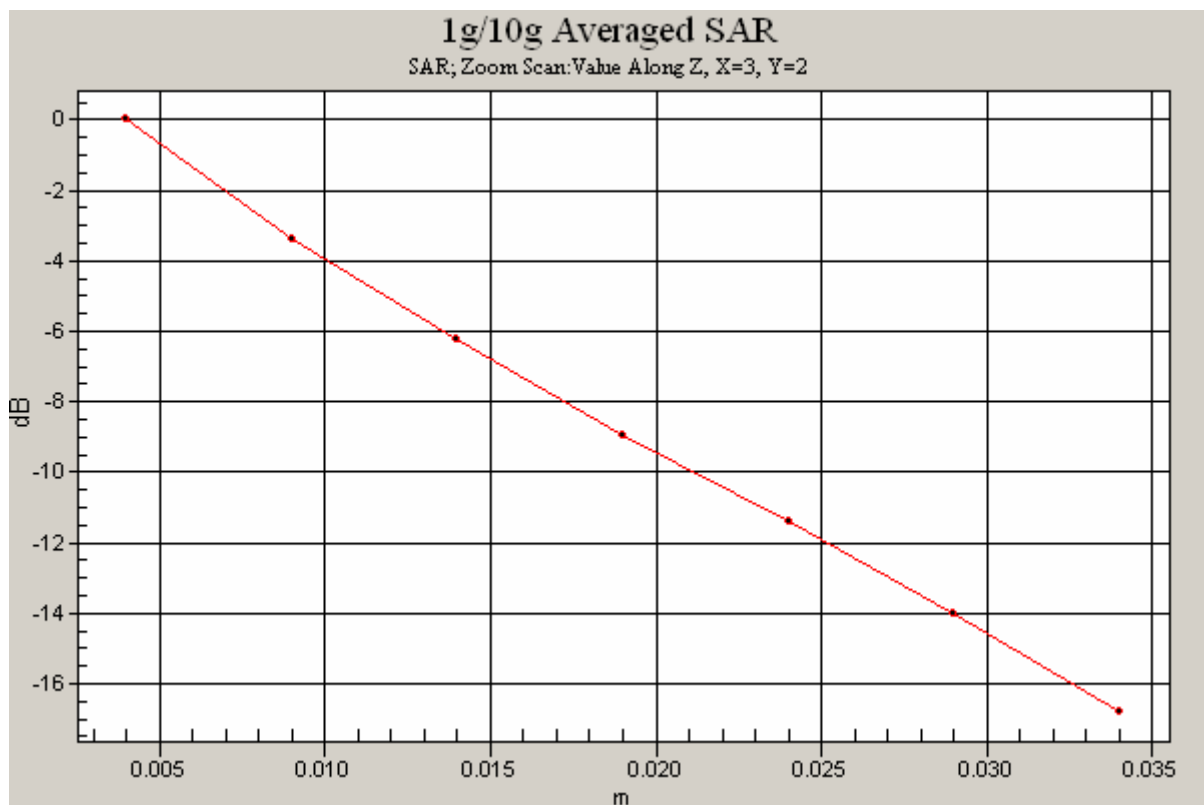
Ambient Temperature
Liquid Temperature
Humidity

20.1 Degrees Celsius
19.8 Degrees Celsius
61.0 %



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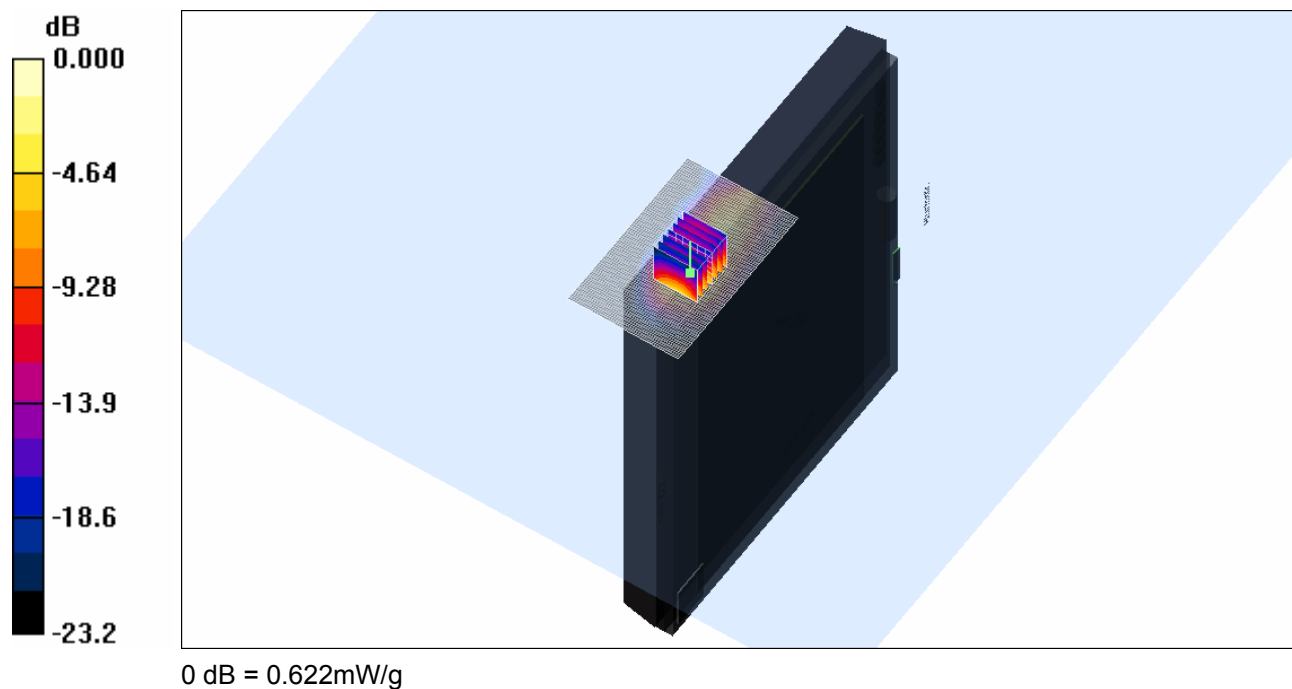
File Name: M100216 Secondary Portrait MCS0-20MHz 2.4 GHz Antenna B (2) 26-02-10.da4

DUT: Fujitsu Tablet Curlin with HB97 11abg; Type: AR5B97; Serial: ZX9X97370

- * Communication System: OFDM 2450 MHz; Frequency: 2412 MHz; Duty Cycle: 1:1
- * Medium parameters used: $f = 2410$ MHz; $\sigma = 1.94$ mho/m; $\epsilon_r = 50.9$; $\rho = 1000$ kg/m³
- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1380; ConvF(4.11, 4.11, 4.11)
- 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) = 0.696 mW/g

Channel 1 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 9.81 V/m; Power Drift = -0.140 dB
Peak SAR (extrapolated) = 1.50 W/kg
SAR(1 g) = 0.589 mW/g; SAR(10 g) = 0.284 mW/g
Maximum value of SAR (measured) = 0.622 mW/g

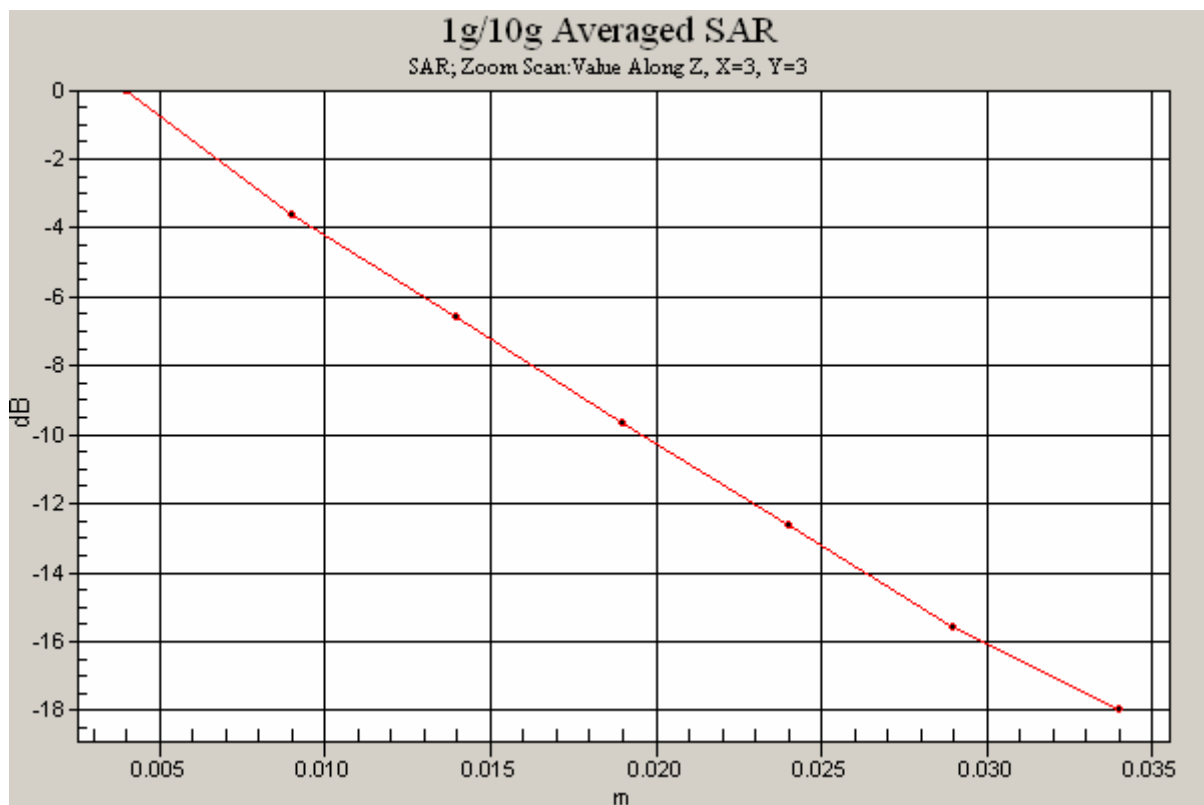


SAR MEASUREMENT PLOT 5

Ambient Temperature
Liquid Temperature
Humidity

20.1 Degrees Celsius
19.8 Degrees Celsius
61.0 %





Test Date: 26 February 2010

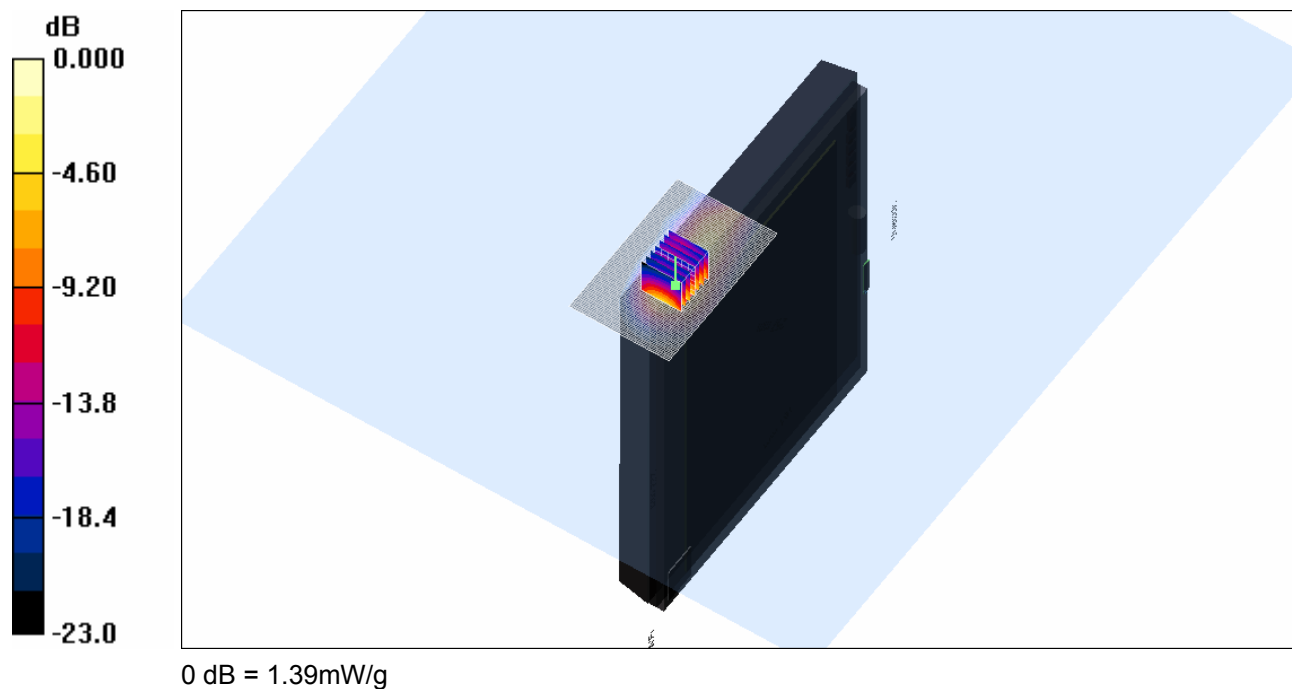
File Name: M100216 Secondary Portrait MCS0-20MHz 2.4 GHz Antenna B (2) 26-02-10.da4

DUT: Fujitsu Tablet Curlin with HB97 11abg; Type: AR5B97; Serial: ZX9X97370

- * Communication System: OFDM 2450 MHz; Frequency: 2437 MHz; Duty Cycle: 1:1
- * Medium parameters used: $f = 2438$ MHz; $\sigma = 1.98$ mho/m; $\epsilon_r = 50.7$; $\rho = 1000$ kg/m³
- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1380; ConvF(4.11, 4.11, 4.11)
- 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) = 1.57 mW/g

Channel 6 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 16.8 V/m; Power Drift = -0.072 dB
Peak SAR (extrapolated) = 3.58 W/kg
SAR(1 g) = 1.29 mW/g; SAR(10 g) = 0.603 mW/g
Maximum value of SAR (measured) = 1.39 mW/g



SAR MEASUREMENT PLOT 6

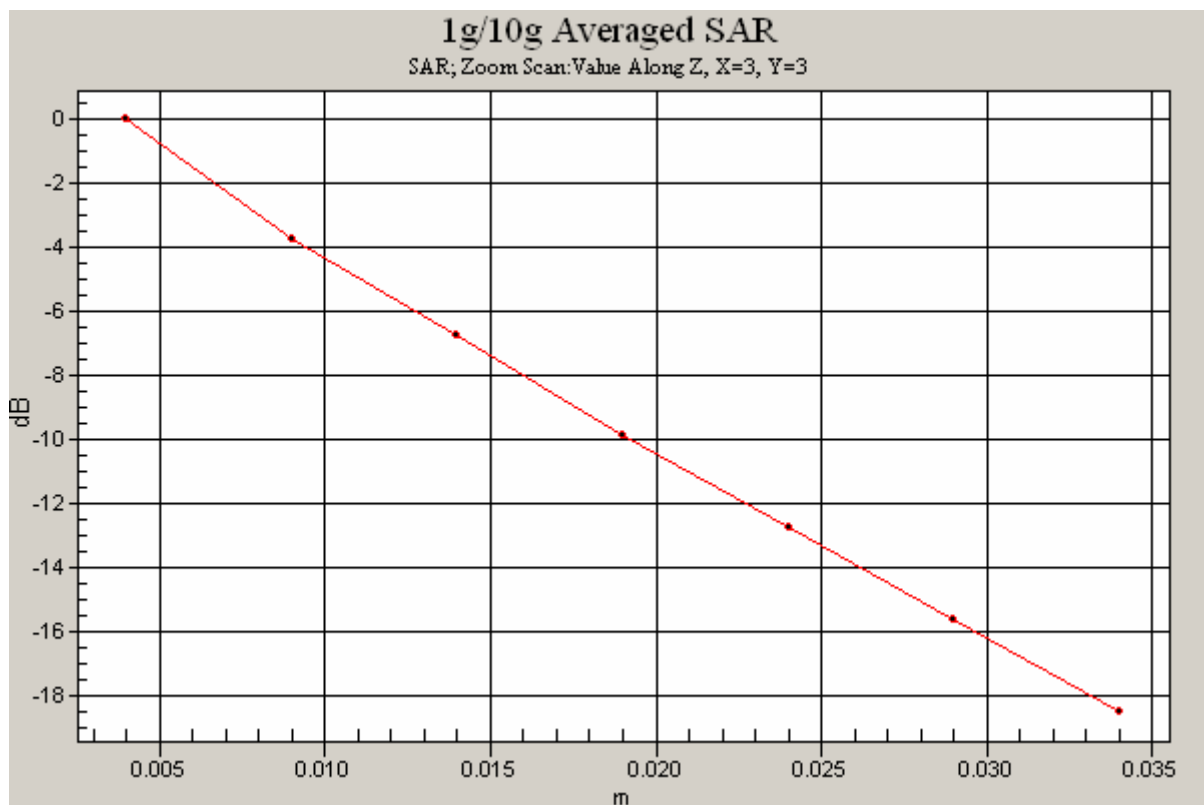
Ambient Temperature
Liquid Temperature
Humidity

20.1 Degrees Celsius
19.8 Degrees Celsius
61.0 %



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Test Date: 26 February 2010

File Name: M100216 Secondary Portrait MCS0-20MHz 2.4 GHz Antenna B (2) 26-02-10.da4

DUT: Fujitsu Tablet Curlin with HB97 11abg; Type: AR5B97; Serial: ZX9X97370

- * Communication System: OFDM 2450 MHz; Frequency: 2462 MHz; Duty Cycle: 1:1
- * Medium parameters used: $f = 2462$ MHz; $\sigma = 2.02$ mho/m; $\epsilon_r = 50.6$; $\rho = 1000$ kg/m³
- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1380; ConvF(4.11, 4.11, 4.11)
- 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) = 0.418 mW/g

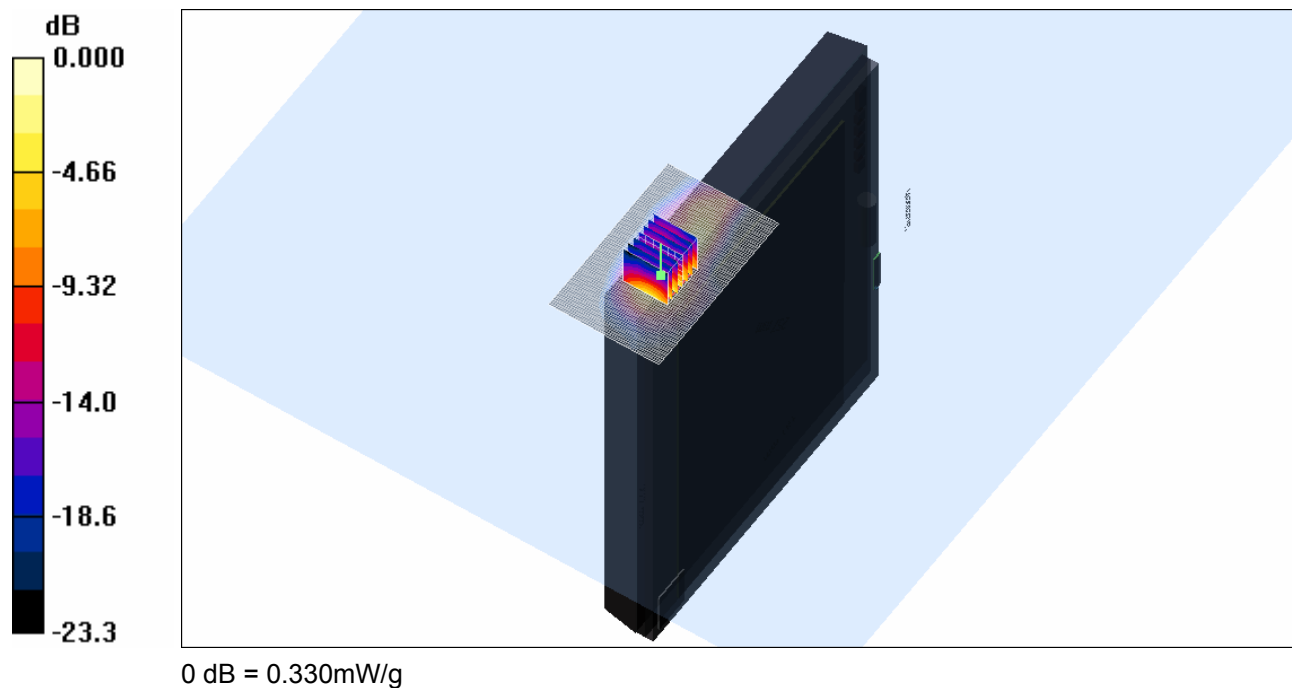
Channel 11 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 7.68 V/m; Power Drift = -0.120 dB

Peak SAR (extrapolated) = 0.887 W/kg

SAR(1 g) = 0.315 mW/g; SAR(10 g) = 0.145 mW/g

Maximum value of SAR (measured) = 0.330 mW/g

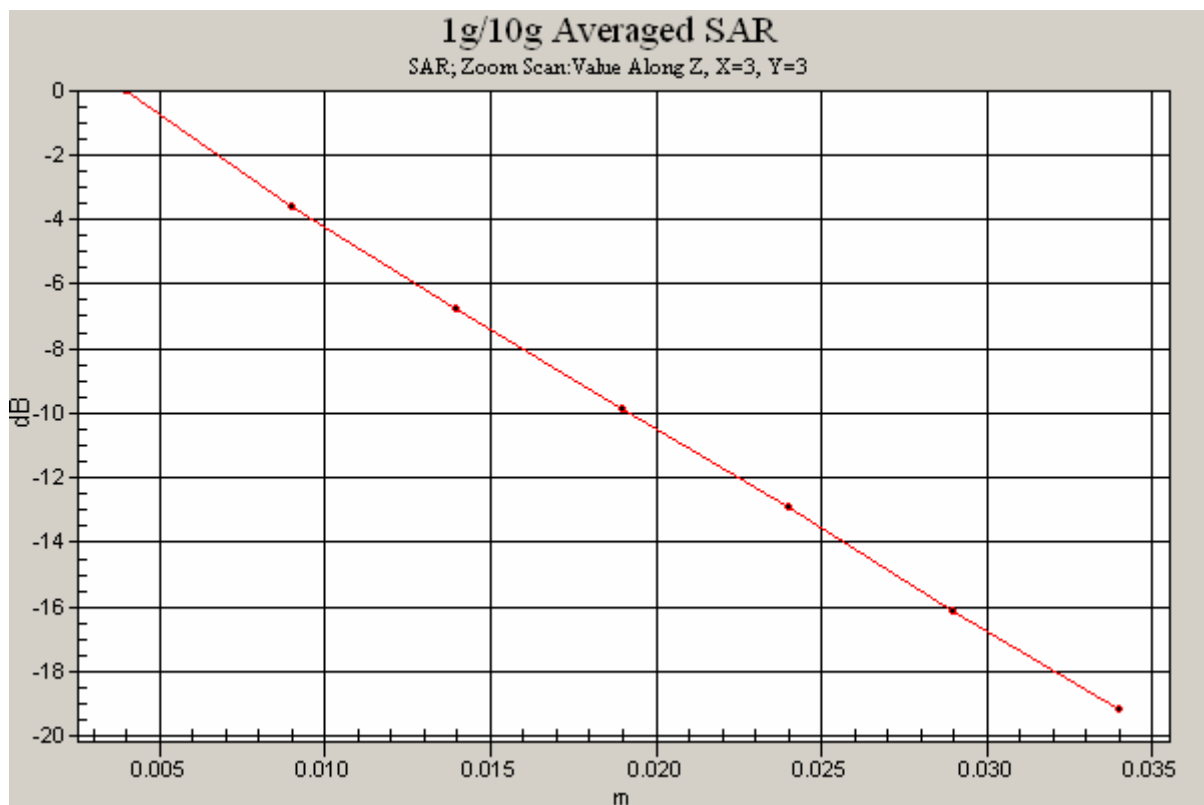


SAR MEASUREMENT PLOT 7

Ambient Temperature
Liquid Temperature
Humidity

20.1 Degrees Celsius
19.8 Degrees Celsius
61.0 %





Test Date: 26 February 2010

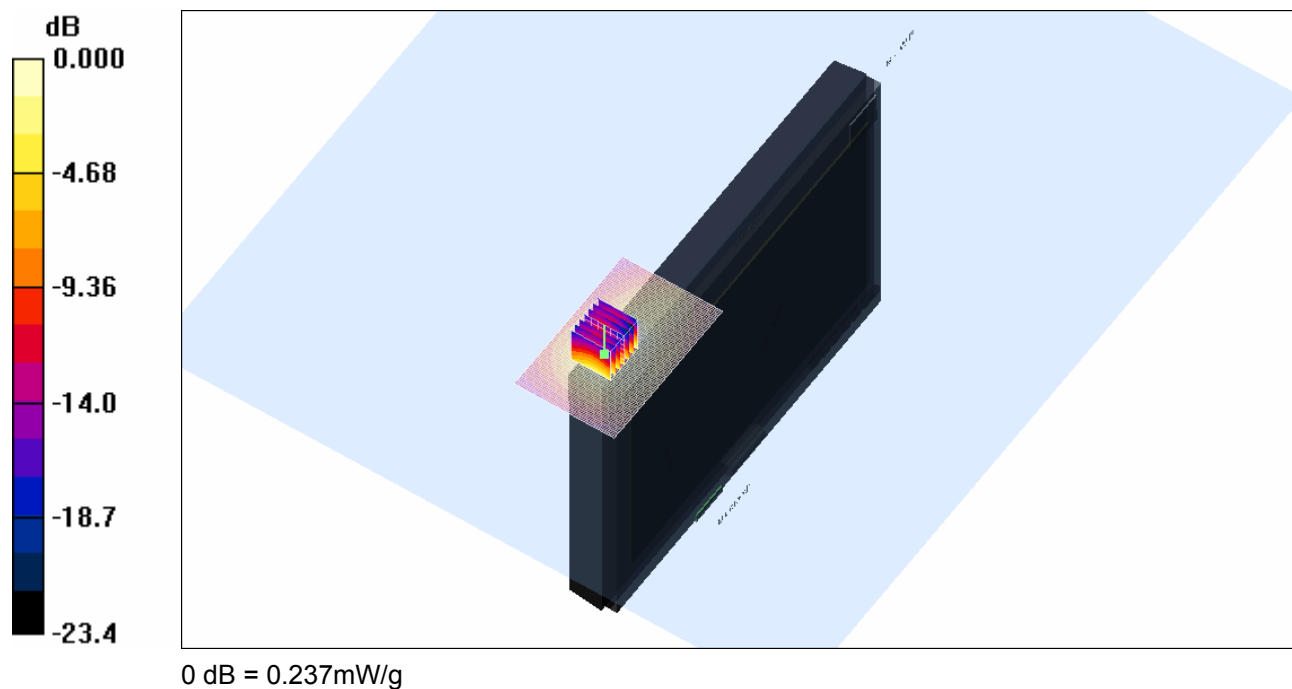
File Name: M100216 Secondary Landscape MCS0-20MHz 2.4 GHz Antenna A (1) 26-02-10.da4

DUT: Fujitsu Tablet Curlin with HB97 11abg; Type: AR5B97; Serial: ZX9X97370

- * Communication System: OFDM 2450 MHz; Frequency: 2437 MHz; Duty Cycle: 1:1
- * Medium parameters used: $f = 2438$ MHz; $\sigma = 1.98$ mho/m; $\epsilon_r = 50.7$; $\rho = 1000$ kg/m³
- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1380; ConvF(4.11, 4.11, 4.11)
- 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) = 0.237 mW/g

Channel 6 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 6.75 V/m; Power Drift = -0.146 dB
Peak SAR (extrapolated) = 0.463 W/kg
SAR(1 g) = 0.220 mW/g; SAR(10 g) = 0.115 mW/g
Maximum value of SAR (measured) = 0.237 mW/g



SAR MEASUREMENT PLOT 8

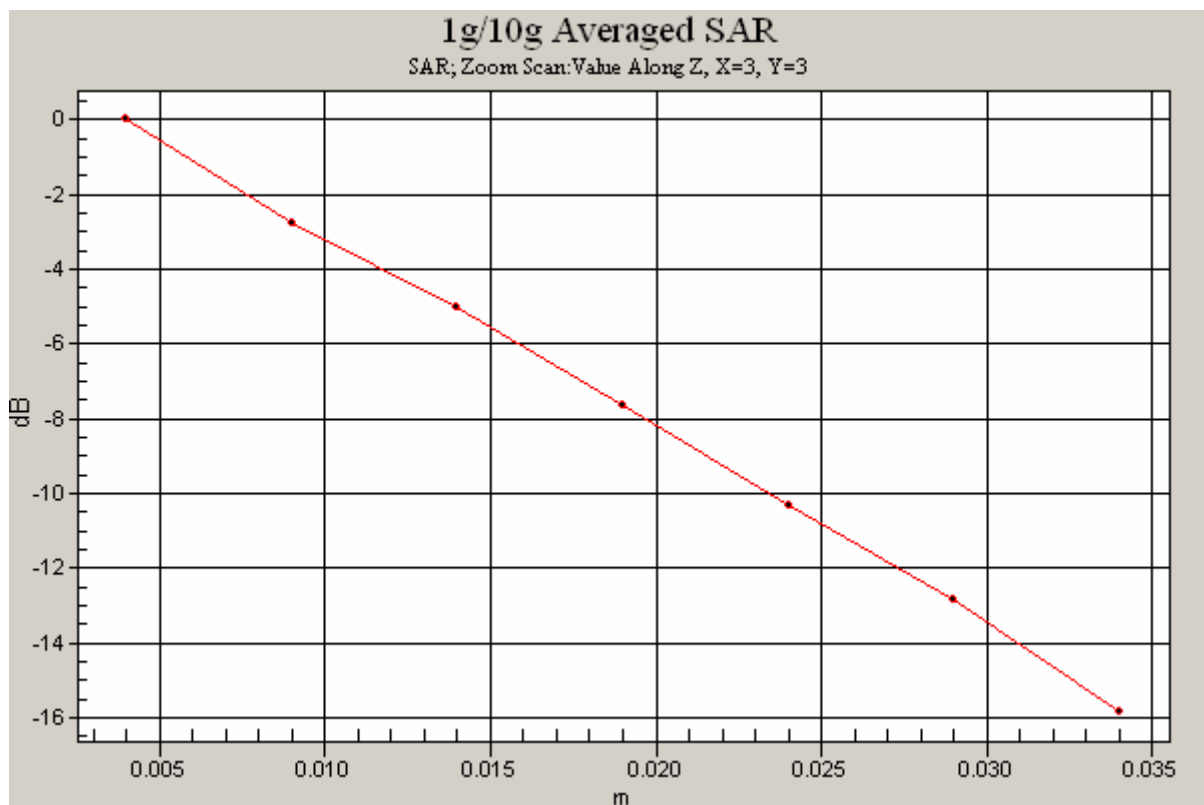
Ambient Temperature
Liquid Temperature
Humidity

20.1 Degrees Celsius
19.8 Degrees Celsius
61.0 %



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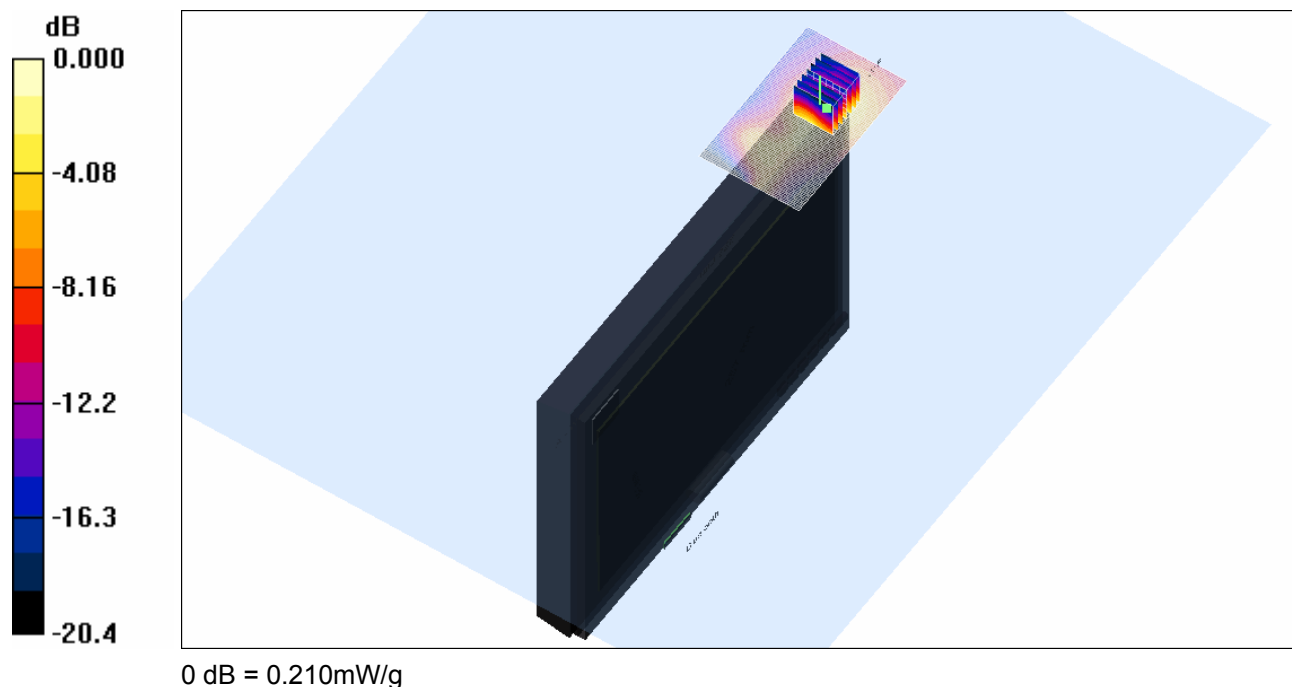
File Name: M100216 Secondary Landscape MCS0-20MHz 2.4 GHz Antenna B (2) 26-02-10.da4

DUT: Fujitsu Tablet Curlin with HB97 11abg; Type: AR5B97; Serial: ZX9X97370

- * Communication System: OFDM 2450 MHz; Frequency: 2437 MHz; Duty Cycle: 1:1
- * Medium parameters used: $f = 2438$ MHz; $\sigma = 1.98$ mho/m; $\epsilon_r = 50.7$; $\rho = 1000$ kg/m³
- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1380; ConvF(4.11, 4.11, 4.11)
- 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) = 0.207 mW/g

Channel 6 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 7.87 V/m; Power Drift = 0.139 dB
Peak SAR (extrapolated) = 0.431 W/kg
SAR(1 g) = 0.196 mW/g; SAR(10 g) = 0.094 mW/g
Maximum value of SAR (measured) = 0.210 mW/g



SAR MEASUREMENT PLOT 9

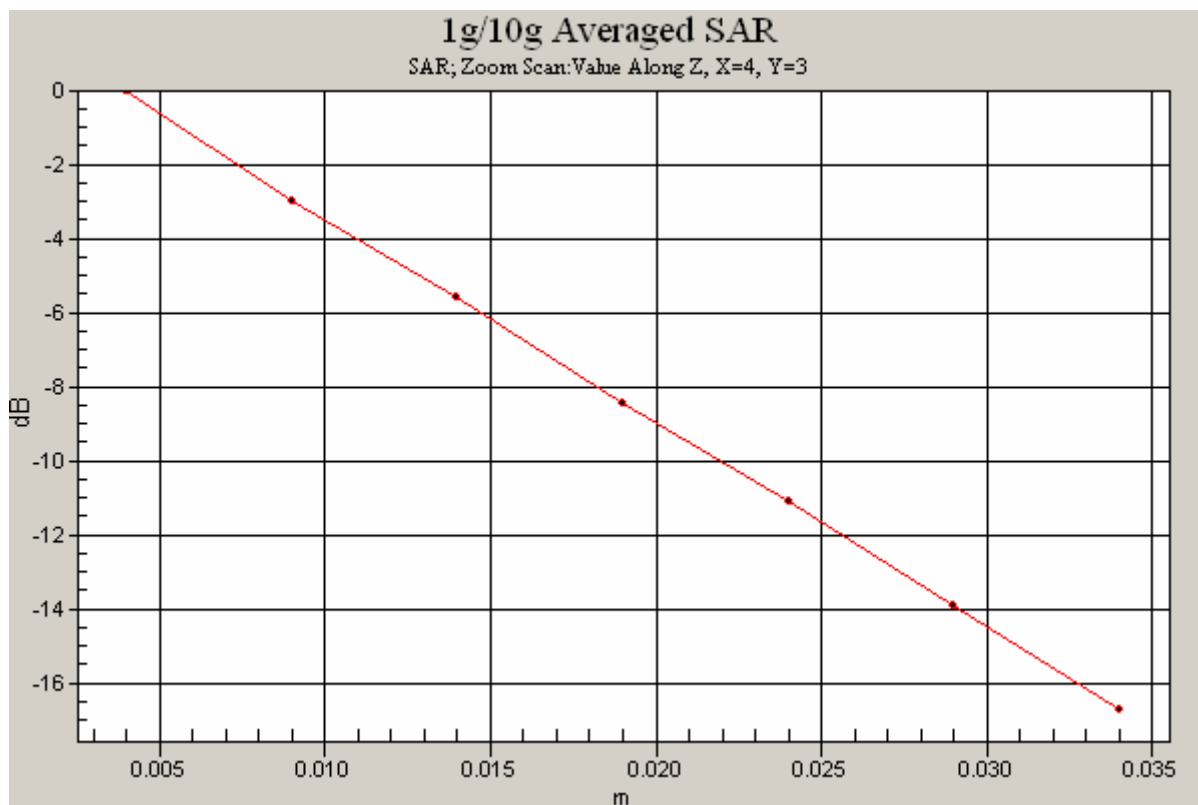
Ambient Temperature
Liquid Temperature
Humidity

20.1 Degrees Celsius
19.8 Degrees Celsius
61.0 %



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Test Date: 26 February 2010

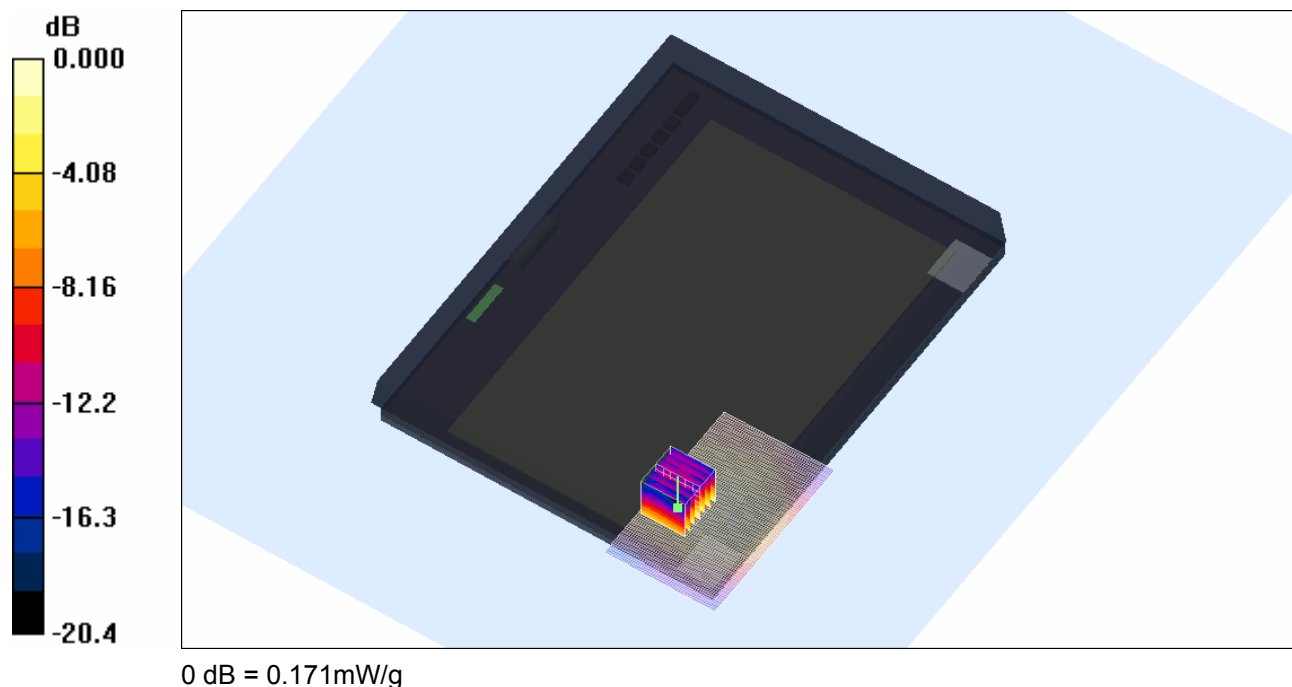
File Name: M100216 Tablet MCS0-20MHz 2.4 GHz Antenna A (1) 26-02-10.da4

DUT: Fujitsu Tablet Curlin with HB97 11abg; Type: AR5B97; Serial: ZX9X97370

- * Communication System: OFDM 2450 MHz; Frequency: 2437 MHz; Duty Cycle: 1:1
- * Medium parameters used: $f = 2438$ MHz; $\sigma = 1.98$ mho/m; $\epsilon_r = 50.7$; $\rho = 1000$ kg/m³
- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1380; ConvF(4.11, 4.11, 4.11)
- 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) = 0.181 mW/g

Channel 6 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 7.29 V/m; Power Drift = 0.115 dB
Peak SAR (extrapolated) = 0.312 W/kg
SAR(1 g) = 0.157 mW/g; SAR(10 g) = 0.086 mW/g
Maximum value of SAR (measured) = 0.171 mW/g



SAR MEASUREMENT PLOT 10

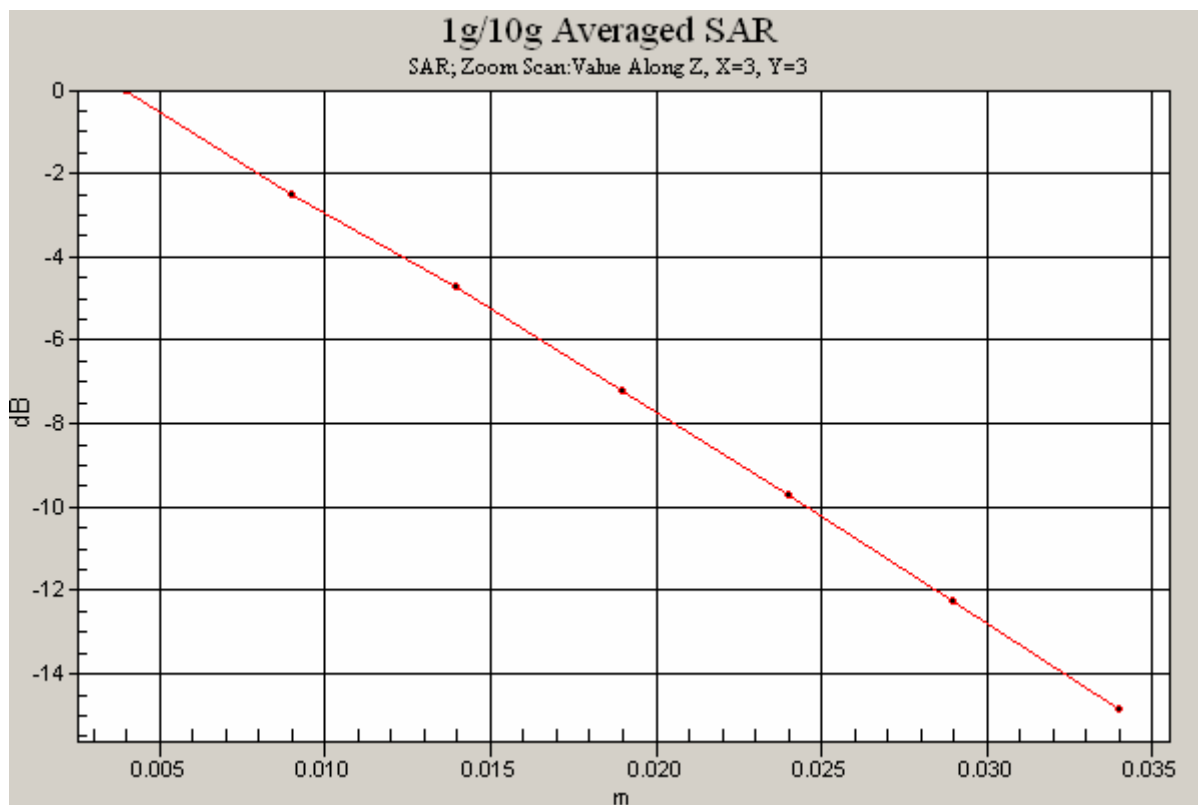
Ambient Temperature
Liquid Temperature
Humidity

20.1 Degrees Celsius
19.8 Degrees Celsius
61.0 %



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Test Date: 26 February 2010

File Name: Validation 2450 MHz (DAE442 Probe1380) 26-02-10.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; $\sigma = 1.88$ mho/m; $\epsilon_r = 39.5$; $\rho = 1000$ kg/m³

- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1380; ConvF(4.44, 4.44, 4.44)

- 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) = 17.7 mW/g

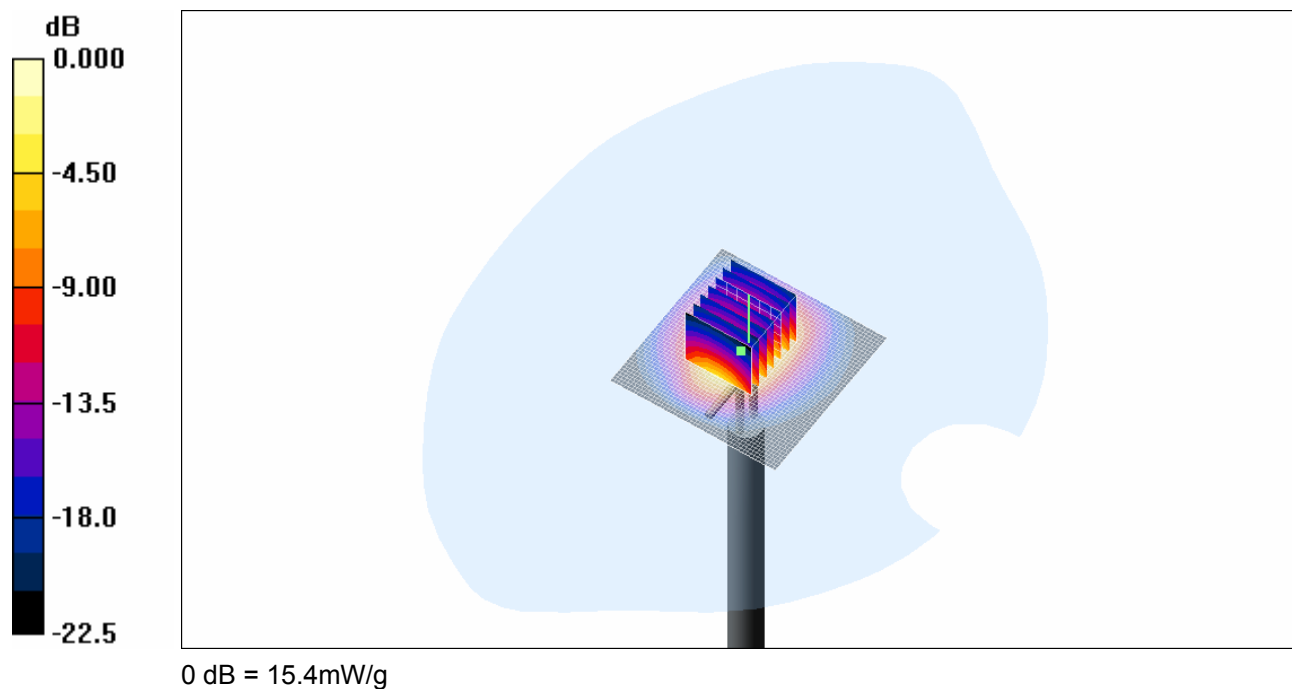
Channel 1 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 94.0 V/m; Power Drift = 0.055 dB

Peak SAR (extrapolated) = 29.9 W/kg

SAR(1 g) = 13.9 mW/g; SAR(10 g) = 6.44 mW/g

Maximum value of SAR (measured) = 15.4 mW/g



SAR MEASUREMENT PLOT 11

Ambient Temperature
Liquid Temperature
Humidity

20.1 Degrees Celsius
19.8 Degrees Celsius
61.0 %



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