

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.

Table 21 2450 MHz OFDM Band SAR Measurement Plot Numbers

Test Position	Plot No.	Ant	Bit rate Mode (Mbps)	Channel Bandwidth (MHz)	Test Channel
Bystander 25mm Spacing	1	A	6	-	06
	2	B	6	-	06
Lap Held	3	A	6	-	06
	-	B	6	-	06
Primary Portrait	4	A	6	-	02
	5	A	6	-	06
	6	A	6	-	10
Secondary Landscape	7	A	6	-	06
	8	B	6	-	06
Secondary Portrait	9	B	6	-	02
	10	B	6	-	06
	11	B	6	-	10

Table 22 2450MHz System verification Plot

Plot 12	System verification 2450 MHz 12 th May 2011
---------	--



This document must not be copied or reproduced, except in full without the written permission of the Manager, EMC Technologies Pty Ltd. The certificate on page 3 may be reproduced in full. www.emctech.com.au

Test Date: 12 May 2011

File Name: M110363 Bystander 25mm Spacing OFDM 2.4 GHz Ant A 12-05-11.da52:0

DUT: **Fujitsu Tablet Claw with HB97 11abgn; Type: AR5B97; Serial: ZX9Y048083**

* Communication System: OFDM 2450 MHz 6 Mbs; Frequency: 2437 MHz; Duty Cycle: 1:12.9778

* Medium parameters used: $f = 2436$ MHz; $\sigma = 1.935$ mho/m; $\epsilon_r = 51.687$; $\rho = 1000$ kg/m³

- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1380; ConvF(4.09, 4.09, 4.09)

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

Configuration/Channel 6 Test/Area Scan (71x121x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 0.052 mW/g

Configuration/Channel 6 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid:

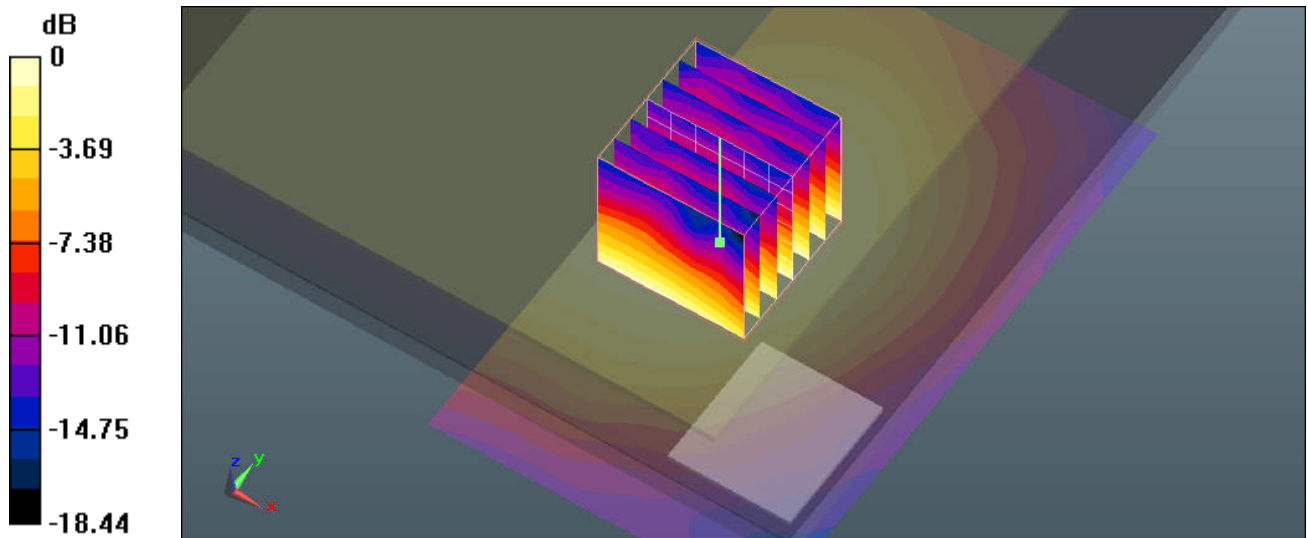
dx=5mm, dy=5mm, dz=5mm

Reference Value = 4.451 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 0.105 W/kg

SAR(1 g) = 0.050 mW/g; SAR(10 g) = 0.029 mW/g

Maximum value of SAR (measured) = 0.053 mW/g

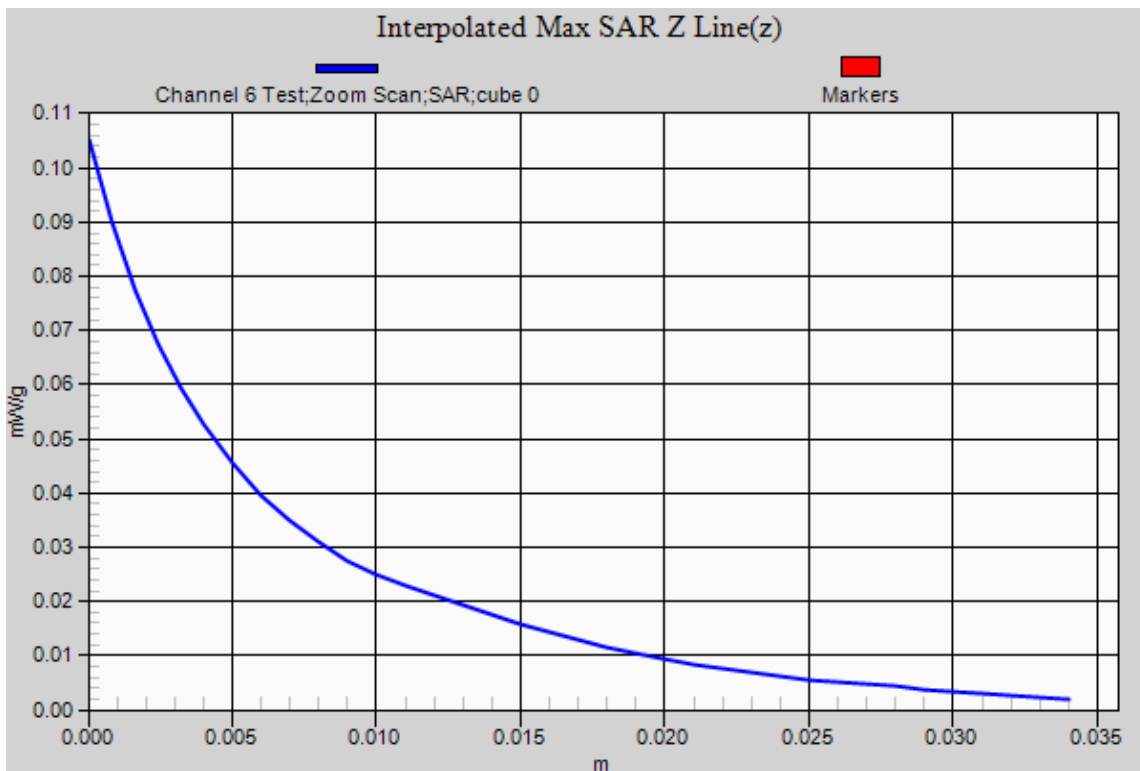


0 dB = 0.050mW/g

SAR MEASUREMENT PLOT 1

Ambient Temperature
Liquid Temperature
Humidity

20.1 Degrees Celsius
19.8 Degrees Celsius
54.0 %



This document must not be copied or reproduced, except in full without the written permission of the Manager, EMC Technologies Pty Ltd. The certificate on page 3 may be reproduced in full. www.emctech.com.au

Test Date: 12 May 2011

File Name: M110363 Bystander 25mm spacing OFDM 2.4 GHz Ant B 12-05-11.da52:0

DUT: **Fujitsu Tablet Claw with HB97 11abgn; Type: AR5B97; Serial: ZX9Y048083**

* Communication System: OFDM 2450 MHz 6 Mbps; Frequency: 2437 MHz; Duty Cycle: 1:12.9778

* Medium parameters used: $f = 2436$ MHz; $\sigma = 1.935$ mho/m; $\epsilon_r = 51.687$; $\rho = 1000$ kg/m³

- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1380; ConvF(4.09, 4.09, 4.09)

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

Configuration/Channel 6 Test/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.043 mW/g

Configuration/Channel 6 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid:

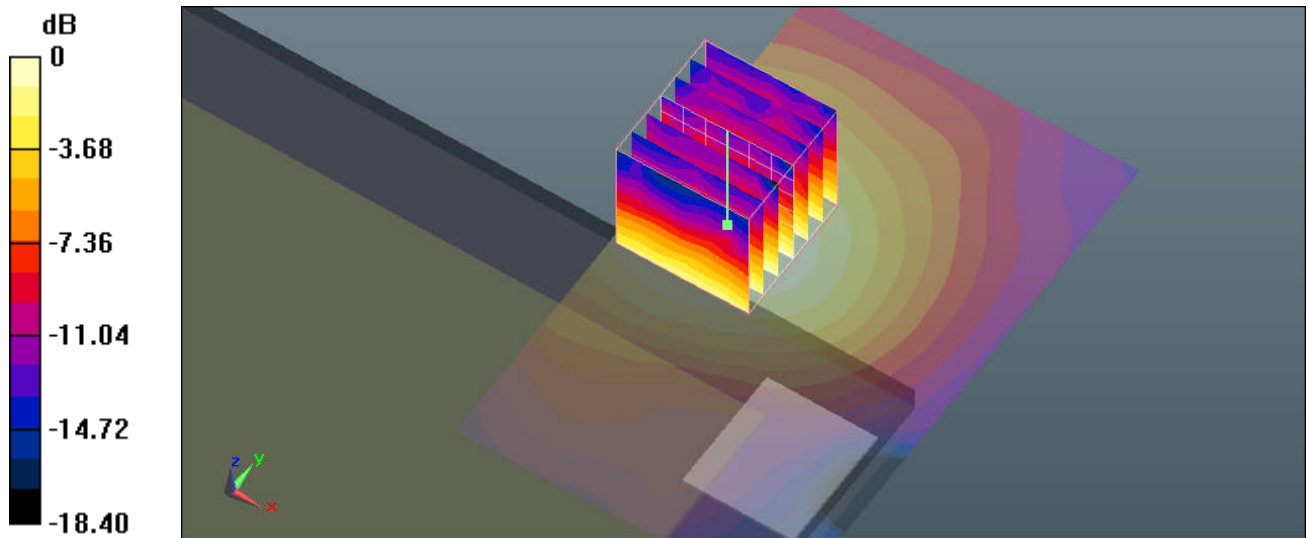
dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.121 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 0.076 W/kg

SAR(1 g) = 0.039 mW/g; SAR(10 g) = 0.023 mW/g

Maximum value of SAR (measured) = 0.042 mW/g

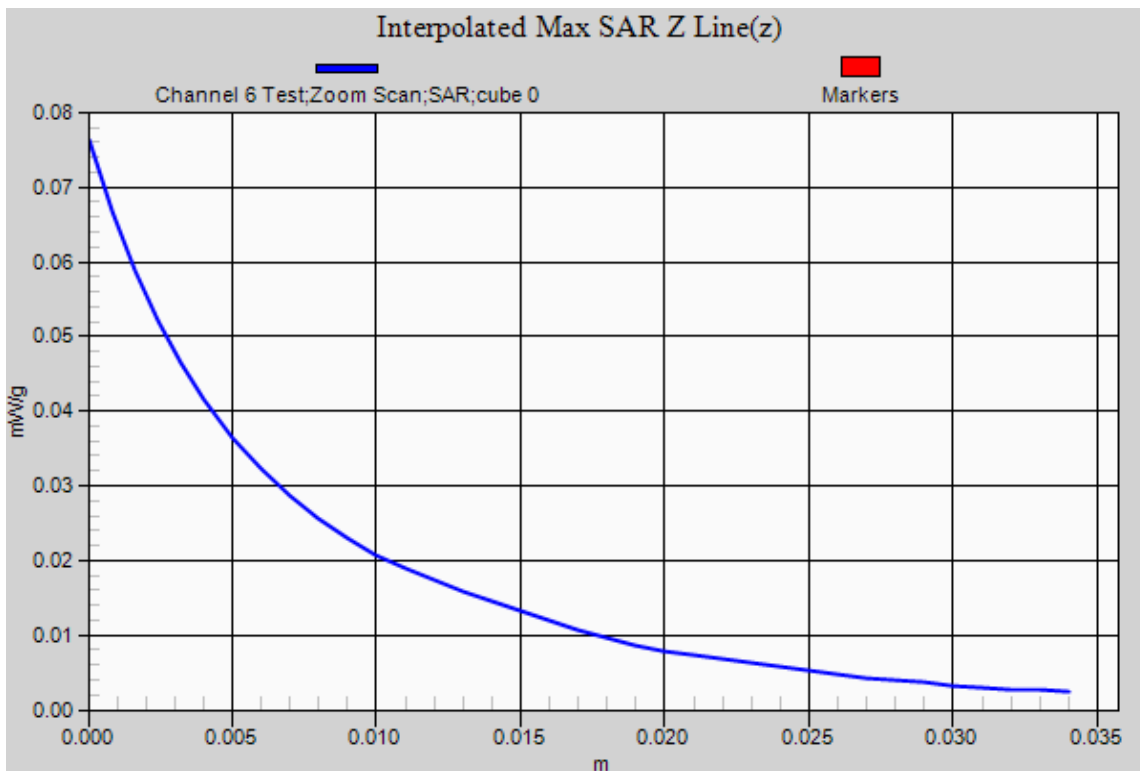


0 dB = 0.040mW/g

SAR MEASUREMENT PLOT 2

Ambient Temperature
Liquid Temperature
Humidity

20.1 Degrees Celsius
19.8 Degrees Celsius
54.0 %



This document must not be copied or reproduced, except in full without the written permission of the Manager, EMC Technologies Pty Ltd. The certificate on page 3 may be reproduced in full. www.emctech.com.au

Test Date: 12 May 2011

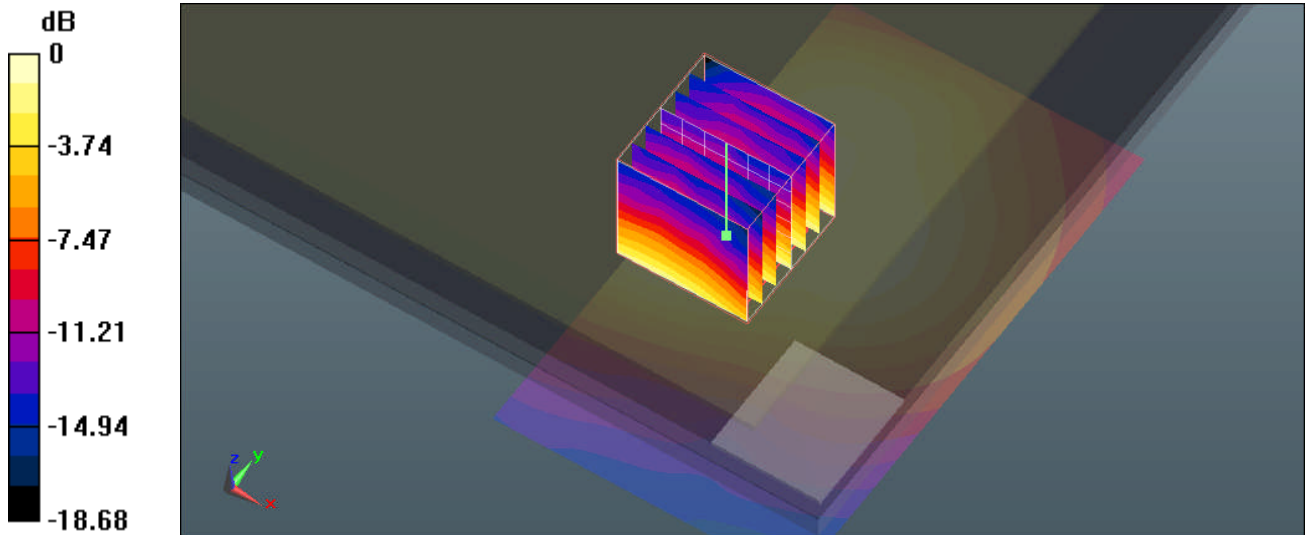
File Name: M110363_Lap Held OFDM 2.4 GHz Ant A 12-05-11.da52:0

DUT: **Fujitsu Tablet Claw with HB97 11abgn; Type: AR5B97; Serial: ZX9Y048083**

- * Communication System: OFDM 2450 MHz 6 Mbs; Frequency: 2437 MHz; Duty Cycle: 1:12.9778
- * Medium parameters used: $f = 2436$ MHz; $\sigma = 1.935$ mho/m; $\epsilon_r = 51.687$; $\rho = 1000$ kg/m³
- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1380; ConvF(4.09, 4.09, 4.09)
- Phantom: Flat Phantom 10.1; Serial: P 10.1; Phantom section: Flat 2.2 Section

Configuration/Channel 6 Test/Area Scan (71x121x1): Measurement grid: dx=10mm, dy=10mm
 Maximum value of SAR (interpolated) = 0.088 mW/g

Configuration/Channel 6 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
 Reference Value = 5.464 V/m; Power Drift = -0.16 dB
 Peak SAR (extrapolated) = 0.159 W/kg
SAR(1 g) = 0.081 mW/g; SAR(10 g) = 0.047 mW/g
 Maximum value of SAR (measured) = 0.087 mW/g

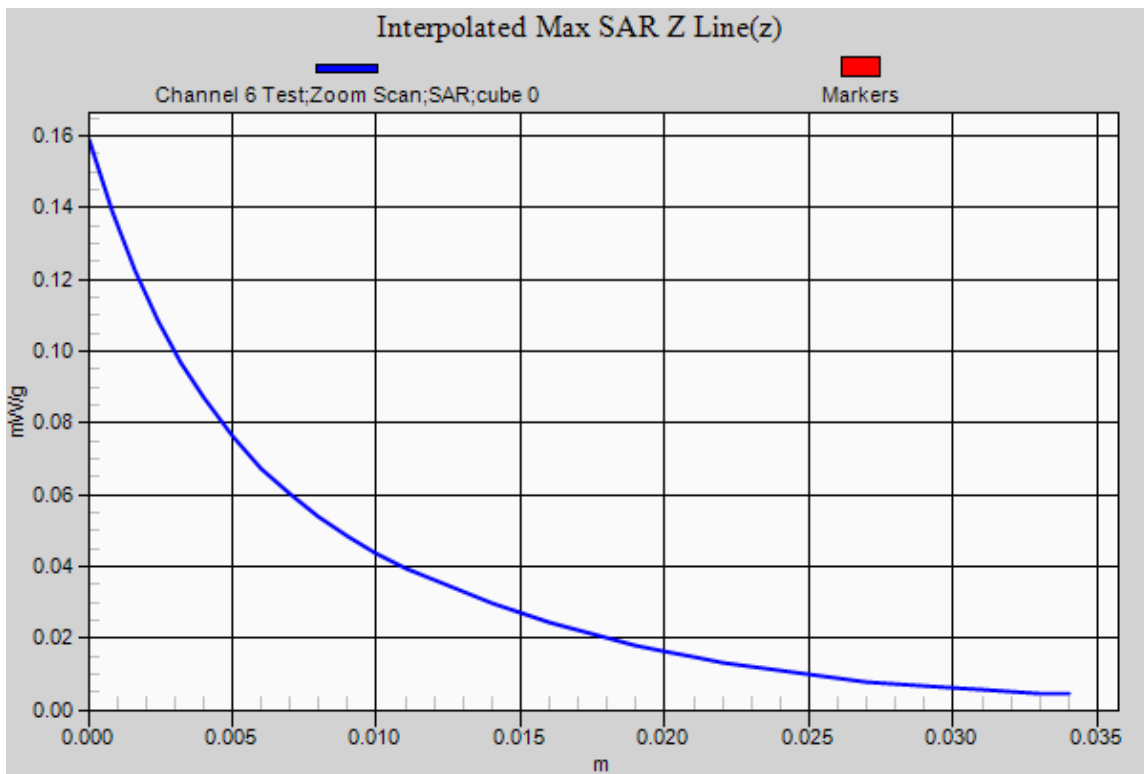


0 dB = 0.090mW/g

SAR MEASUREMENT PLOT 3

Ambient Temperature
 Liquid Temperature
 Humidity

20.1 Degrees Celsius
19.8 Degrees Celsius
54.0 %



This document must not be copied or reproduced, except in full without the written permission of the Manager, EMC Technologies Pty Ltd. The certificate on page 3 may be reproduced in full.
www.emctech.com.au

Test Date: 12 May 2011

File Name: M110363 Primary Portrait OFDM 2.4 GHz Ant A 12-05-11.da52:0

DUT: **Fujitsu Tablet Claw with HB97 11abgn; Type: AR5B97; Serial: ZX9Y048083**

* Communication System: OFDM 2450 MHz 6 Mbs; Frequency: 2417 MHz; Duty Cycle: 1:12.9778

* Medium parameters used: $f = 2416$ MHz; $\sigma = 1.903$ mho/m; $\epsilon_r = 51.812$; $\rho = 1000$ kg/m³

- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1380; ConvF(4.09, 4.09, 4.09)

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

Configuration/Channel 2 Test/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.341 mW/g

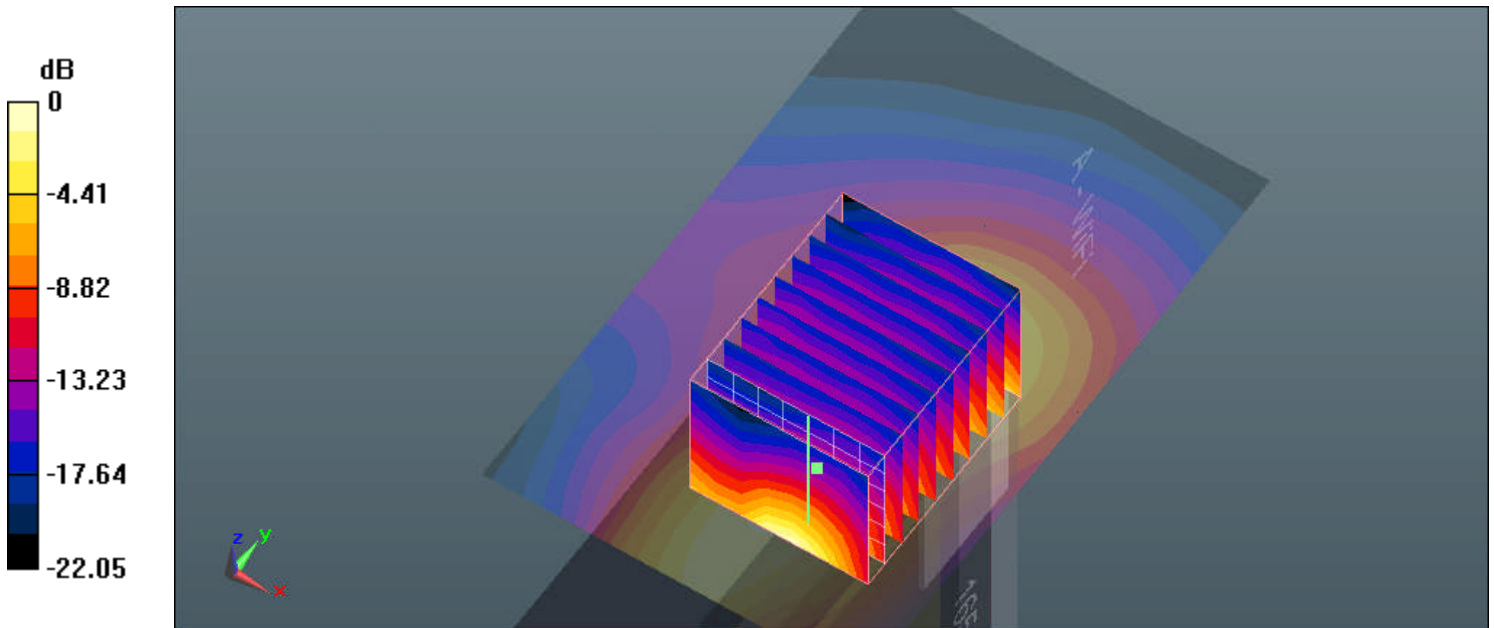
Configuration/Channel 2 Test/Zoom Scan (8x10x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 7.987 V/m; Power Drift = -0.27 dB

Peak SAR (extrapolated) = 0.996 W/kg

SAR(1 g) = 0.350 mW/g; SAR(10 g) = 0.152 mW/g

Maximum value of SAR (measured) = 0.387 mW/g



0 dB = 0.390mW/g

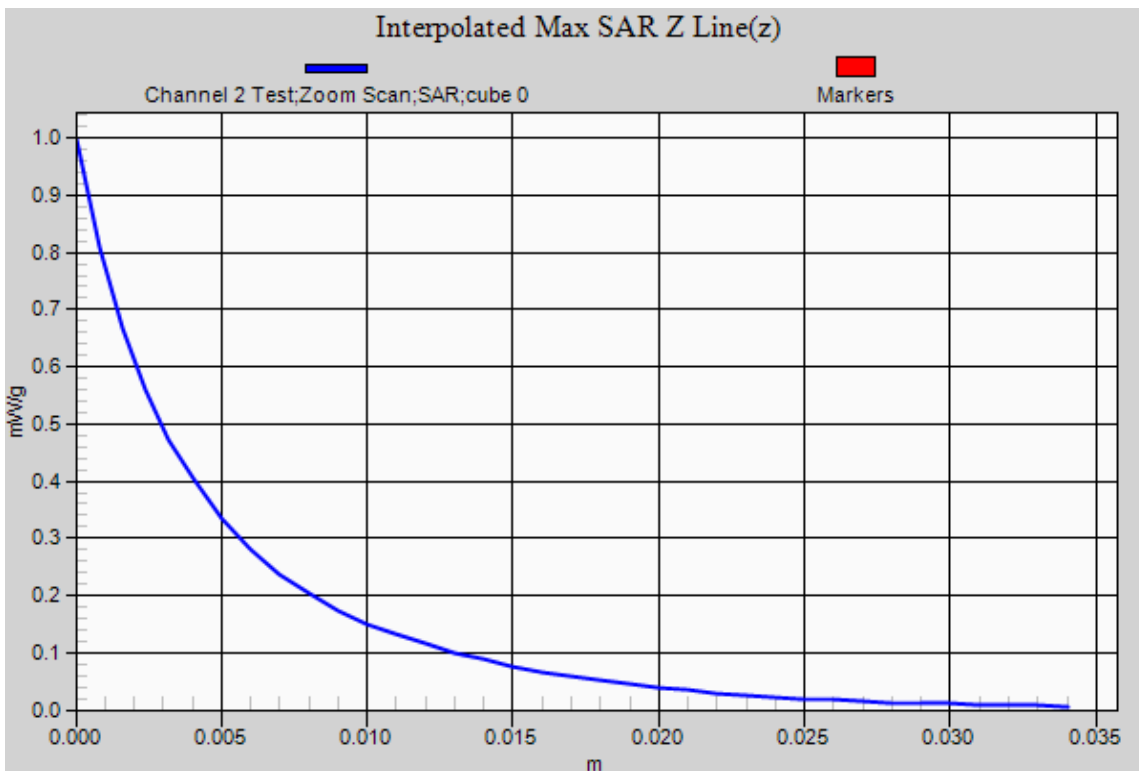
SAR MEASUREMENT PLOT 4

Ambient Temperature
Liquid Temperature
Humidity

20.1 Degrees Celsius
19.8 Degrees Celsius
54.0 %



This document must not be copied or reproduced, except in full without the written permission of the Manager, EMC Technologies Pty Ltd. The certificate on page 3 may be reproduced in full.
www.emctech.com.au



This document must not be copied or reproduced, except in full without the written permission of the Manager, EMC Technologies Pty Ltd. The certificate on page 3 may be reproduced in full. www.emctech.com.au

Test Date: 12 May 2011

File Name: M110363 Primary Portrait OFDM 2.4 GHz Ant A 12-05-11.da52:0

DUT: Fujitsu Tablet Claw with HB97 11abgn; Type: AR5B97; Serial: ZX9Y048083

* Communication System: OFDM 2450 MHz 6 Mbs; Frequency: 2437 MHz; Duty Cycle: 1:12.9778

* Medium parameters used: $f = 2436$ MHz; $\sigma = 1.935$ mho/m; $\epsilon_r = 51.687$; $\rho = 1000$ kg/m³

- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1380; ConvF(4.09, 4.09, 4.09)

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

Configuration/Channel 6 Test/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.378 mW/g

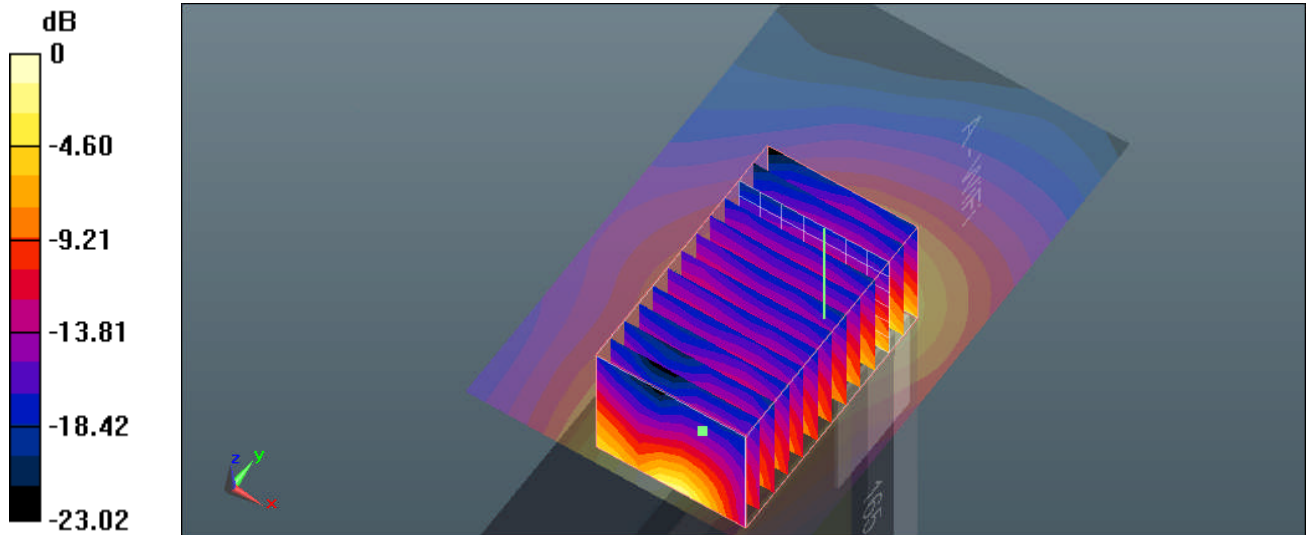
Configuration/Channel 6 Test/Zoom Scan (8x13x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 8.416 V/m; Power Drift = -0.30 dB

Peak SAR (extrapolated) = 0.957 W/kg

SAR(1 g) = 0.337 mW/g; SAR(10 g) = 0.148 mW/g

Maximum value of SAR (measured) = 0.369 mW/g

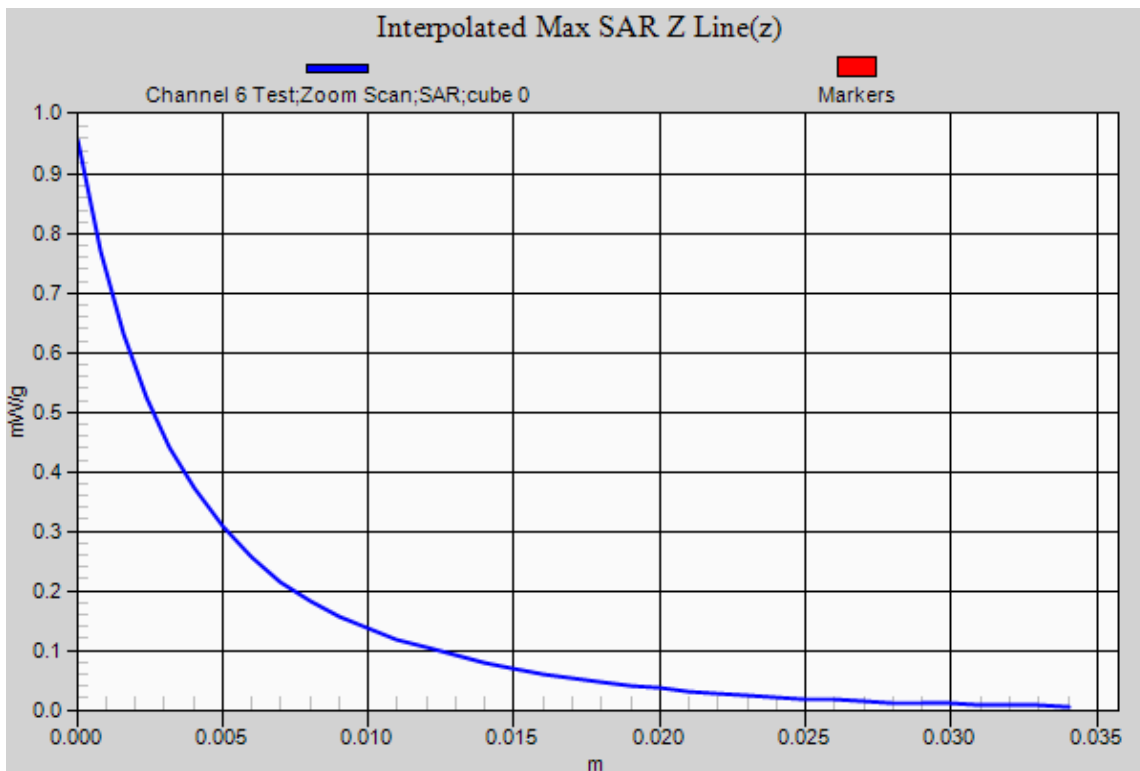


0 dB = 0.370mW/g

SAR MEASUREMENT PLOT 5

Ambient Temperature
Liquid Temperature
Humidity

20.1 Degrees Celsius
19.8 Degrees Celsius
54.0 %



This document must not be copied or reproduced, except in full without the written permission of the Manager, EMC Technologies Pty Ltd. The certificate on page 3 may be reproduced in full. www.emctech.com.au

Test Date: 12 May 2011

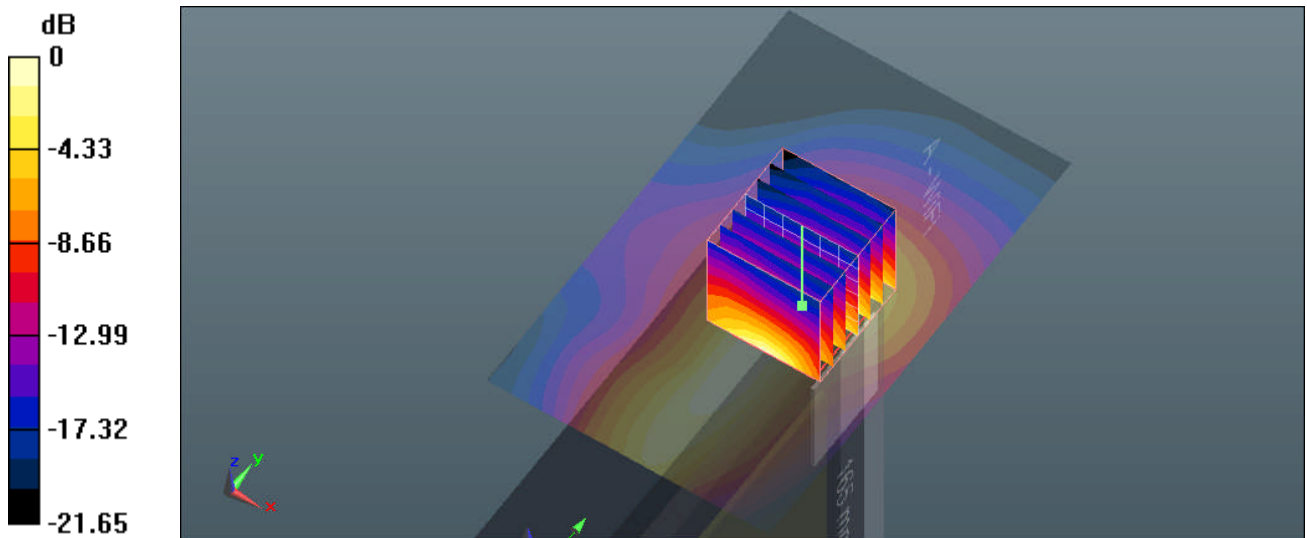
File Name: M110363 Primary Portrait OFDM 2.4 GHz Ant A 12-05-11.da52:0

DUT: Fujitsu Tablet Claw with HB97 11abgn; Type: AR5B97; Serial: ZX9Y048083

- * Communication System: OFDM 2450 MHz 6 Mbs; Frequency: 2457 MHz; Duty Cycle: 1:12.9778
- * Medium parameters used: $f = 2456$ MHz; $\sigma = 1.965$ mho/m; $\epsilon_r = 51.551$; $\rho = 1000$ kg/m³
- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1380; ConvF(4.09, 4.09, 4.09)
- Phantom: Flat Phantom 10.1; Serial: P 10.1; Phantom section: Flat 2.2 Section

Configuration/Channel 10 Test/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm
 Maximum value of SAR (interpolated) = 0.437 mW/g

Configuration/Channel 10 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
 Reference Value = 9.386 V/m; Power Drift = -0.30 dB
 Peak SAR (extrapolated) = 1.206 W/kg
SAR(1 g) = 0.411 mW/g; SAR(10 g) = 0.182 mW/g
 Maximum value of SAR (measured) = 0.459 mW/g

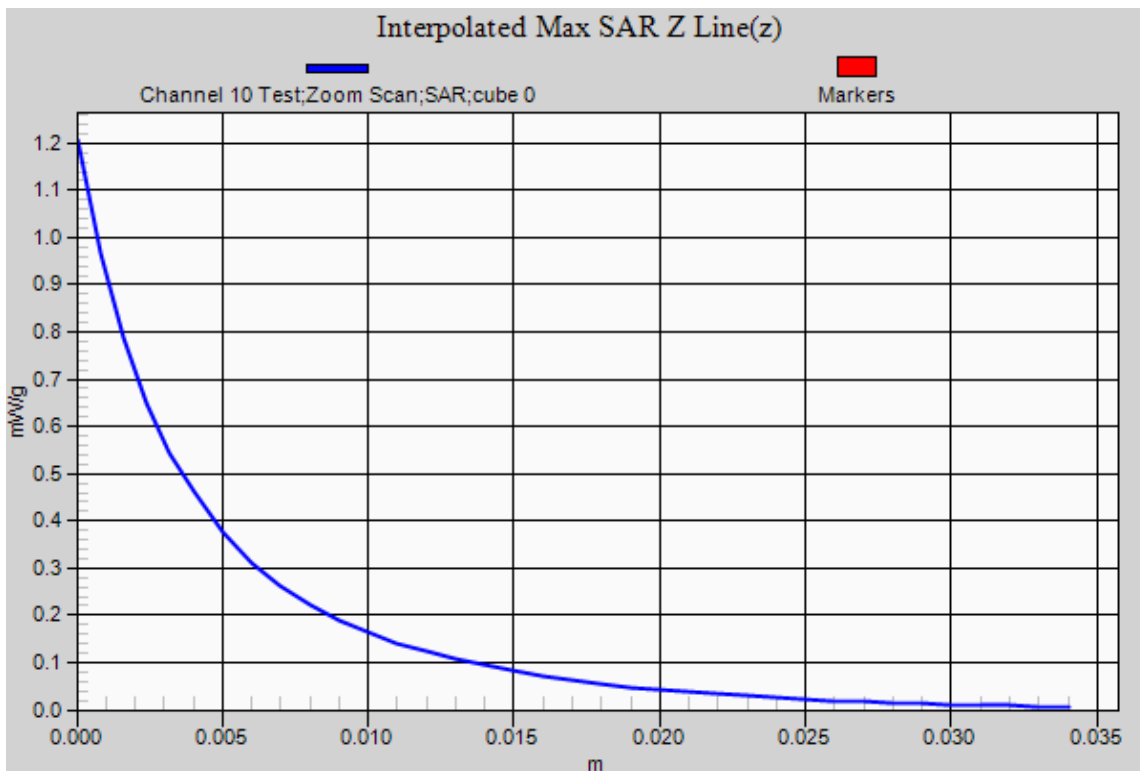


0 dB = 0.460mW/g

SAR MEASUREMENT PLOT 6

Ambient Temperature
 Liquid Temperature
 Humidity

20.1 Degrees Celsius
 19.8 Degrees Celsius
 54.0 %



This document must not be copied or reproduced, except in full without the written permission of the Manager, EMC Technologies Pty Ltd. The certificate on page 3 may be reproduced in full. www.emctech.com.au

Test Date: 12 May 2011

File Name: M110363 Secondary Landscape OFDM 2.4 GHz Ant A 12-05-11.da52:0

DUT: **Fujitsu Tablet Claw with HB97 11abgn; Type: AR5B97; Serial: ZX9Y048083**

* Communication System: OFDM 2450 MHz 6 Mbs; Frequency: 2437 MHz; Duty Cycle: 1:12.9778

* Medium parameters used: $f = 2436$ MHz; $\sigma = 1.935$ mho/m; $\epsilon_r = 51.687$; $\rho = 1000$ kg/m³

- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1380; ConvF(4.09, 4.09, 4.09)

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

Configuration/Channel 6 Test/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.152 mW/g

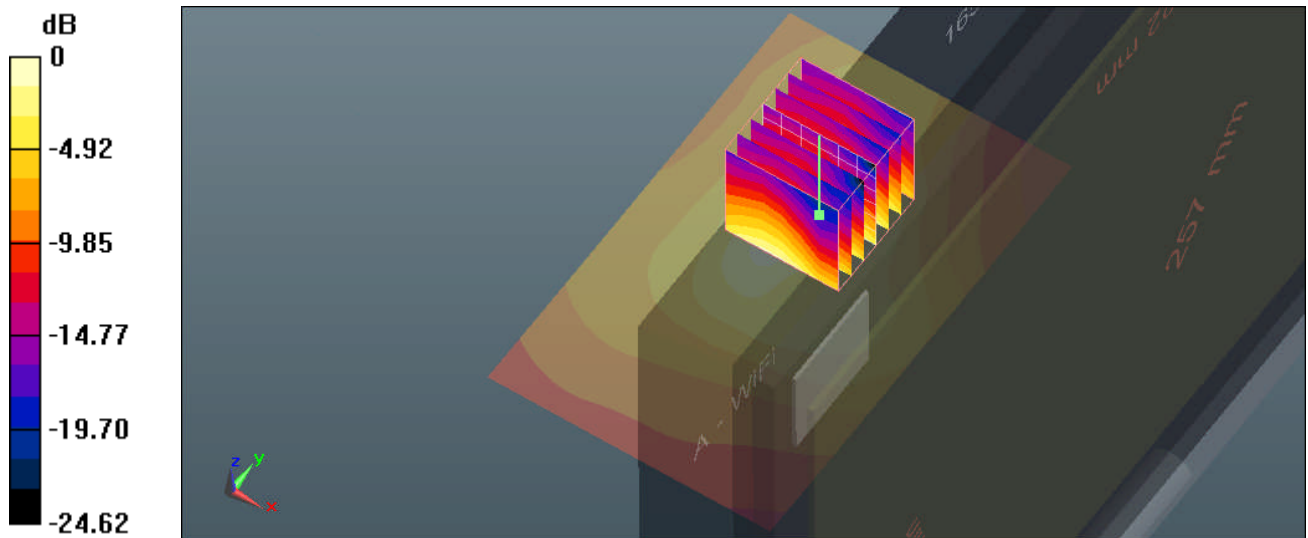
Configuration/Channel 6 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 7.756 V/m; Power Drift = -0.12 dB

Peak SAR (extrapolated) = 0.330 W/kg

SAR(1 g) = 0.147 mW/g; SAR(10 g) = 0.074 mW/g

Maximum value of SAR (measured) = 0.161 mW/g

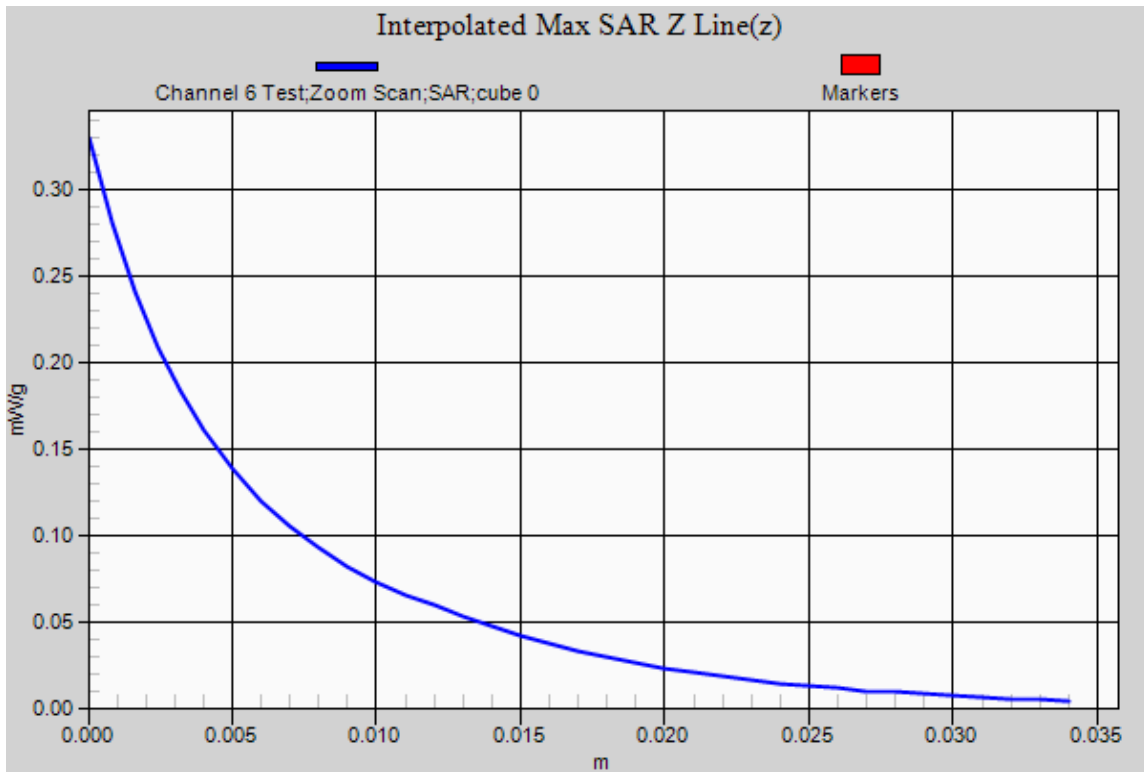


0 dB = 0.160mW/g

SAR MEASUREMENT PLOT 7

Ambient Temperature
Liquid Temperature
Humidity

20.1 Degrees Celsius
19.8 Degrees Celsius
54.0 %



This document must not be copied or reproduced, except in full without the written permission of the Manager, EMC Technologies Pty Ltd. The certificate on page 3 may be reproduced in full. www.emctech.com.au

Test Date: 12 May 2011

File Name: M110363 Secondary Landscape OFDM 2.4 GHz Ant B 12-05-11.da52:0

DUT: **Fujitsu Tablet Claw with HB97 11abgn; Type: AR5B97; Serial: ZX9Y048083**

- * Communication System: OFDM 2450 MHz 6 Mbs; Frequency: 2437 MHz; Duty Cycle: 1:12.9778
- * Medium parameters used: $f = 2436$ MHz; $\sigma = 1.935$ mho/m; $\epsilon_r = 51.687$; $\rho = 1000$ kg/m³
- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1380; ConvF(4.09, 4.09, 4.09)
- Phantom: Flat Phantom 10.1; Serial: P 10.1; Phantom section: Flat 2.2 Section

Configuration/Channel 6 Test/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.127 mW/g

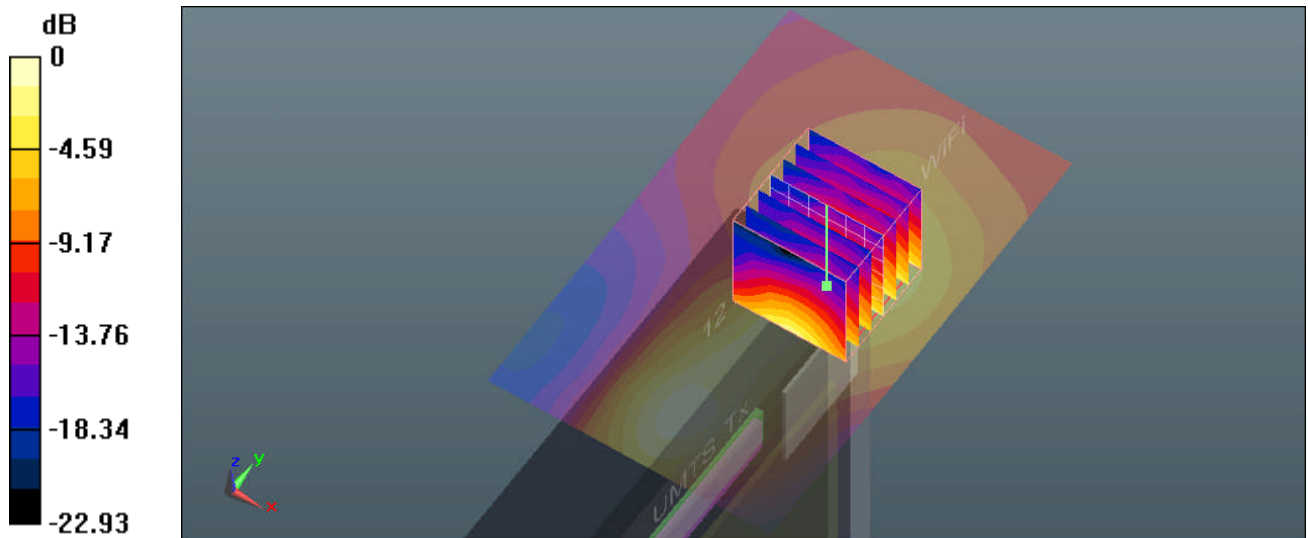
Configuration/Channel 6 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 4.495 V/m; Power Drift = -0.27 dB

Peak SAR (extrapolated) = 0.267 W/kg

SAR(1 g) = 0.116 mW/g; SAR(10 g) = 0.055 mW/g

Maximum value of SAR (measured) = 0.127 mW/g

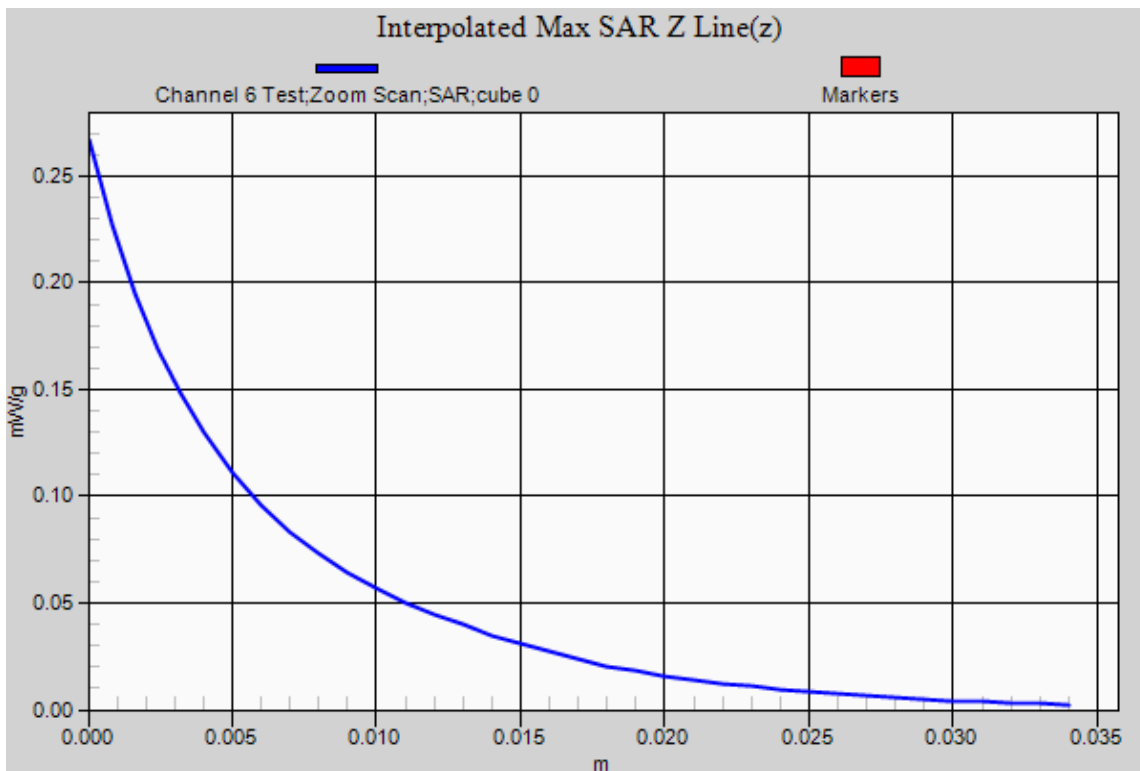


0 dB = 0.130mW/g

SAR MEASUREMENT PLOT 8

Ambient Temperature
Liquid Temperature
Humidity

20.1 Degrees Celsius
19.8 Degrees Celsius
54.0 %



This document must not be copied or reproduced, except in full without the written permission of the Manager, EMC Technologies Pty Ltd. The certificate on page 3 may be reproduced in full.
www.emctech.com.au

Test Date: 12 May 2011

File Name: M110363 Secondary Portrait OFDM 2.4 GHz Ant B 12-05-11.da52:0

DUT: **Fujitsu Tablet Claw with HB97 11abgn; Type: AR5B97; Serial: ZX9Y048083**

- * Communication System: OFDM 2450 MHz 6 Mbs; Frequency: 2417 MHz; Duty Cycle: 1:12.9778
- * Medium parameters used: $f = 2416$ MHz; $\sigma = 1.903$ mho/m; $\epsilon_r = 51.812$; $\rho = 1000$ kg/m³
- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1380; ConvF(4.09, 4.09, 4.09)
- Phantom: Flat Phantom 10.1; Serial: P 10.1; Phantom section: Flat 2.2 Section

Configuration/Channel 2 Test/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.417 mW/g

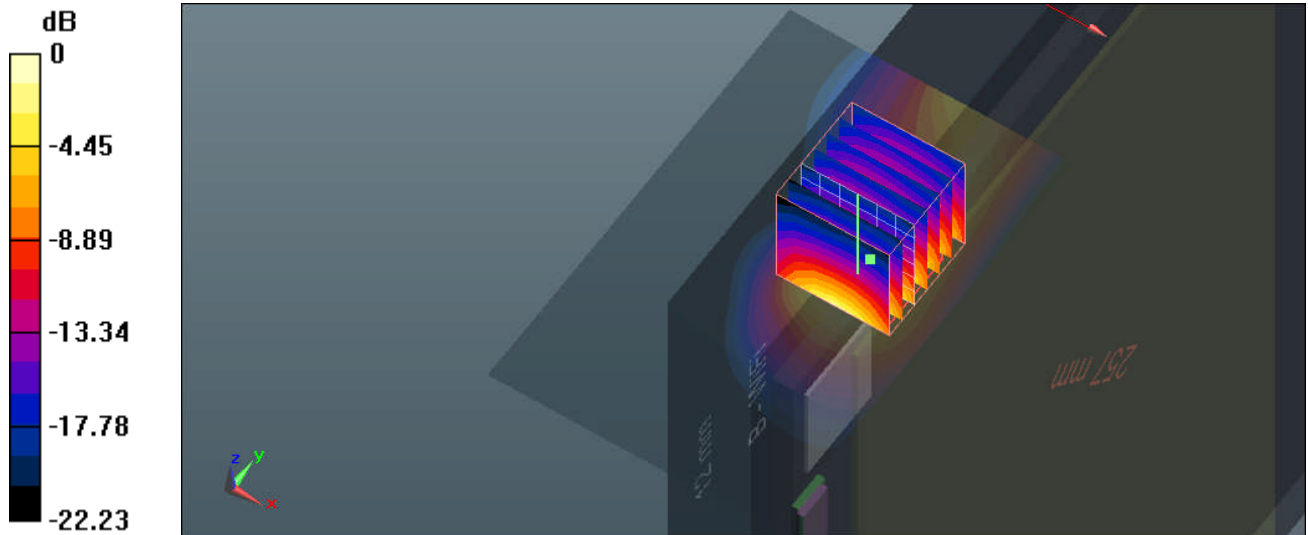
Configuration/Channel 2 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 6.520 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 3.892 W/kg

SAR(1 g) = 1.18 mW/g; SAR(10 g) = 0.516 mW/g

Maximum value of SAR (measured) = 1.261 mW/g

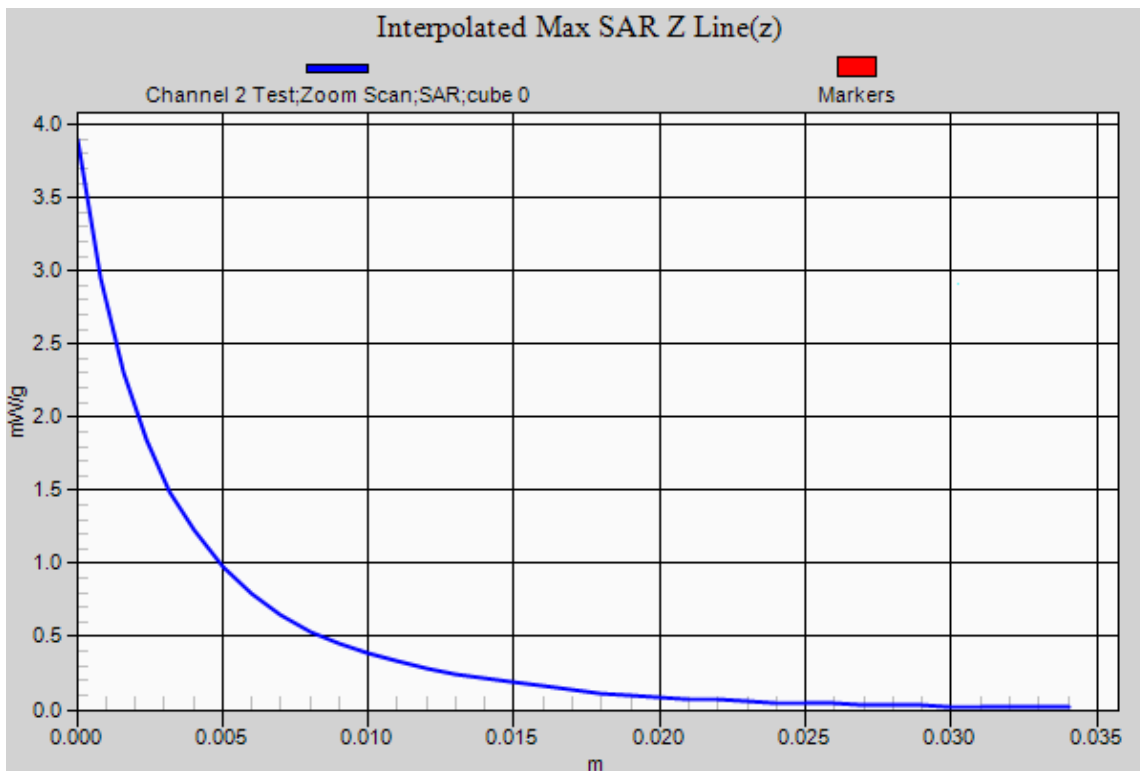


0 dB = 1.260mW/g

SAR MEASUREMENT PLOT 9

Ambient Temperature
Liquid Temperature
Humidity

20.1 Degrees Celsius
19.8 Degrees Celsius
54.0 %



This document must not be copied or reproduced, except in full without the written permission of the Manager, EMC Technologies Pty Ltd. The certificate on page 3 may be reproduced in full. www.emctech.com.au

Test Date: 12 May 2011

File Name: M110363 Secondary Portrait OFDM 2.4 GHz Ant B 12-05-11.da52:0

DUT: **Fujitsu Tablet Claw with HB97 11abgn; Type: AR5B97; Serial: ZX9Y048083**

- * Communication System: OFDM 2450 MHz 6 Mbs; Frequency: 2437 MHz; Duty Cycle: 1:12.9778
- * Medium parameters used: $f = 2436$ MHz; $\sigma = 1.935$ mho/m; $\epsilon_r = 51.687$; $\rho = 1000$ kg/m³
- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1380; ConvF(4.09, 4.09, 4.09)
- Phantom: Flat Phantom 10.1; Serial: P 10.1; Phantom section: Flat 2.2 Section

Configuration/Channel 6 Test/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.102 mW/g

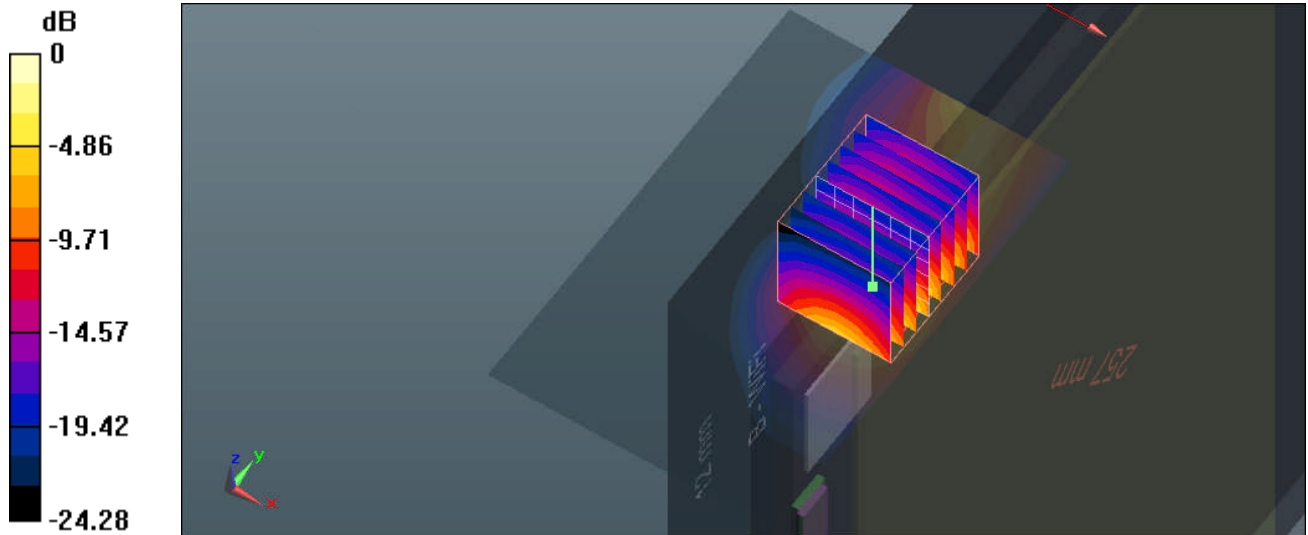
Configuration/Channel 6 Test/Zoom Scan (7x8x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 4.079 V/m; Power Drift = -0.51 dB

Peak SAR (extrapolated) = 3.662 W/kg

SAR(1 g) = 1.07 mW/g; SAR(10 g) = 0.446 mW/g

Maximum value of SAR (measured) = 1.137 mW/g

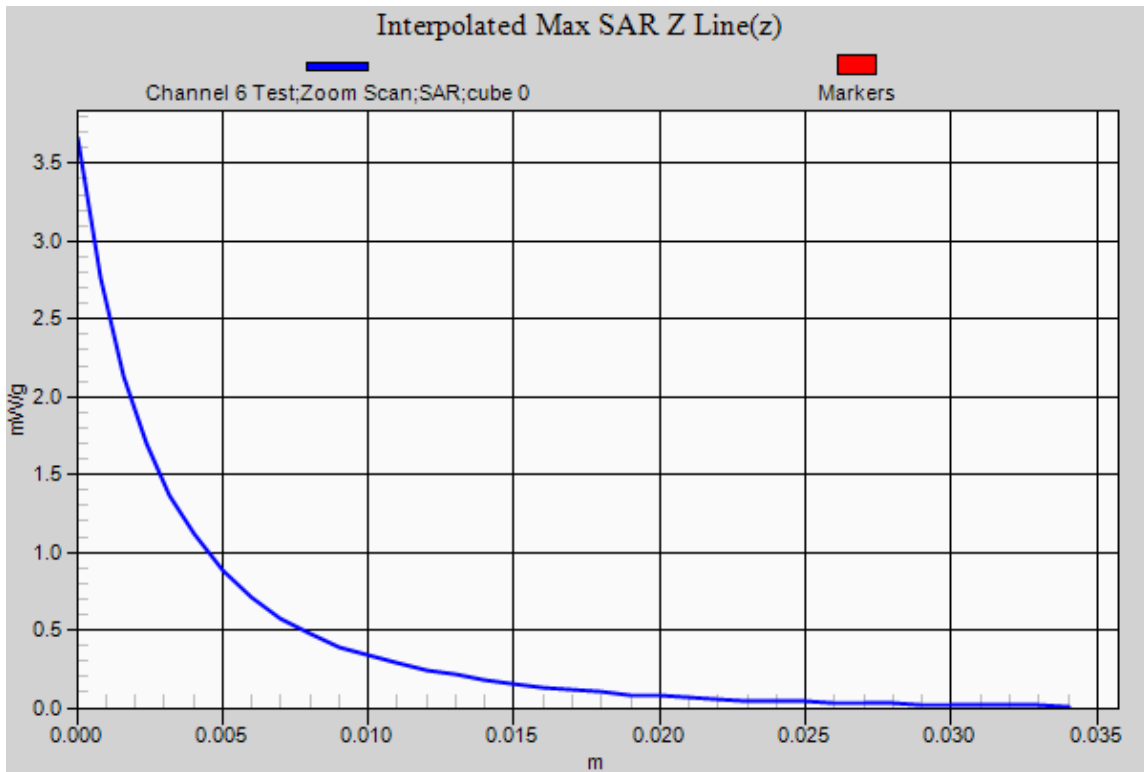


0 dB = 1.140mW/g

SAR MEASUREMENT PLOT 10

Ambient Temperature
Liquid Temperature
Humidity

20.1 Degrees Celsius
19.8 Degrees Celsius
54.0 %



This document must not be copied or reproduced, except in full without the written permission of the Manager, EMC Technologies Pty Ltd. The certificate on page 3 may be reproduced in full.
www.emctech.com.au

Test Date: 12 May 2011

File Name: M110363 Secondary Portrait OFDM 2.4 GHz Ant B 12-05-11.da52:0

DUT: **Fujitsu Tablet Claw with HB97 11abgn; Type: AR5B97; Serial: ZX9Y048083**

* Communication System: OFDM 2450 MHz 6 Mbs; Frequency: 2457 MHz; Duty Cycle: 1:12.9778

* Medium parameters used: $f = 2456$ MHz; $\sigma = 1.965$ mho/m; $\epsilon_r = 51.551$; $\rho = 1000$ kg/m³

- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1380; ConvF(4.09, 4.09, 4.09)

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

Configuration/Channel 10 Test/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.717 mW/g

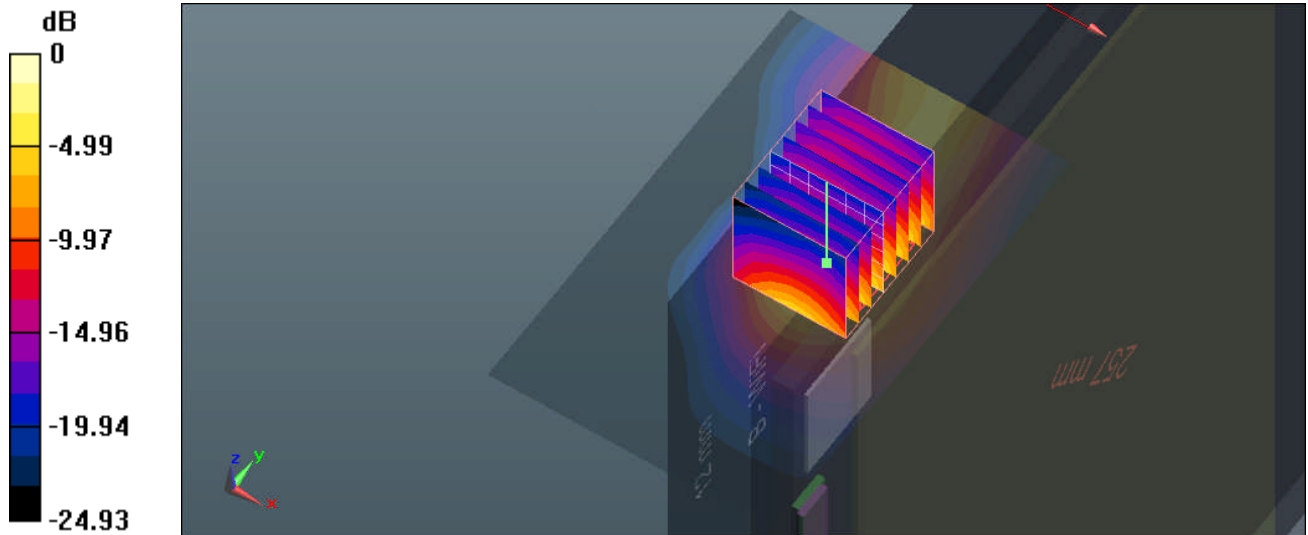
Configuration/Channel 10 Test/Zoom Scan (7x8x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 9.547 V/m; Power Drift = -0.25 dB

Peak SAR (extrapolated) = 1.978 W/kg

SAR(1 g) = 0.641 mW/g; SAR(10 g) = 0.286 mW/g

Maximum value of SAR (measured) = 0.700 mW/g

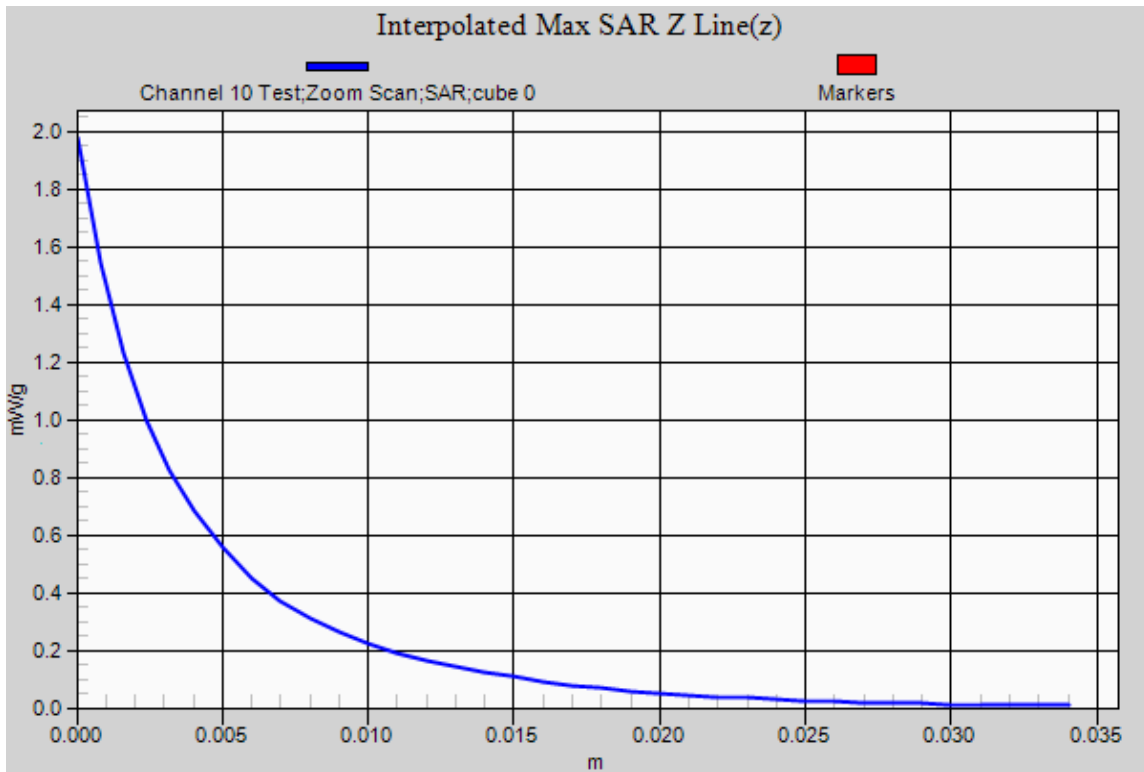


0 dB = 0.700mW/g

SAR MEASUREMENT PLOT 11

Ambient Temperature
Liquid Temperature
Humidity

20.1 Degrees Celsius
19.8 Degrees Celsius
54.0 %



This document must not be copied or reproduced, except in full without the written permission of the Manager, EMC Technologies Pty Ltd. The certificate on page 3 may be reproduced in full.
www.emctech.com.au

Test Date: 12 May 2011

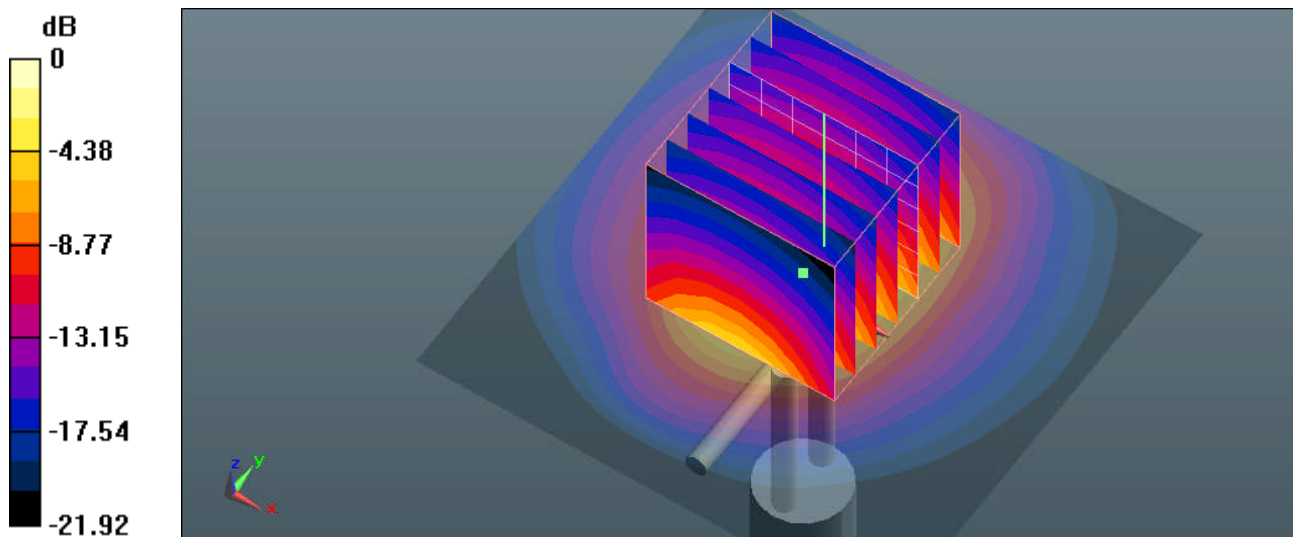
File Name: System Check 2450 MHz 12-05-11.da52:0

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

- * Communication System: CW; Frequency: 2450 MHz; Duty Cycle: 1:1
- * Medium parameters used: $f = 2450$ MHz; $\sigma = 1.955$ mho/m; $\epsilon_r = 51.598$; $\rho = 1000$ kg/m³
- Electronics: DAE3 Sn442; Probe: ET3DV6 - SN1380; ConvF(4.09, 4.09, 4.09)
- Phantom: Flat Phantom 10.1; Serial: P 10.1; Phantom section: Flat 2.2 Section

Configuration/Channel 1 Test/Area Scan (51x51x1): Measurement grid: dx=15mm, dy=15mm
 Maximum value of SAR (interpolated) = 17.574 mW/g

Configuration/Channel 1 Test/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
 Reference Value = 94.078 V/m; Power Drift = -0.04 dB
 Peak SAR (extrapolated) = 33.772 W/kg
SAR(1 g) = 15 mW/g; SAR(10 g) = 7.03 mW/g
 Maximum value of SAR (measured) = 16.375 mW/g

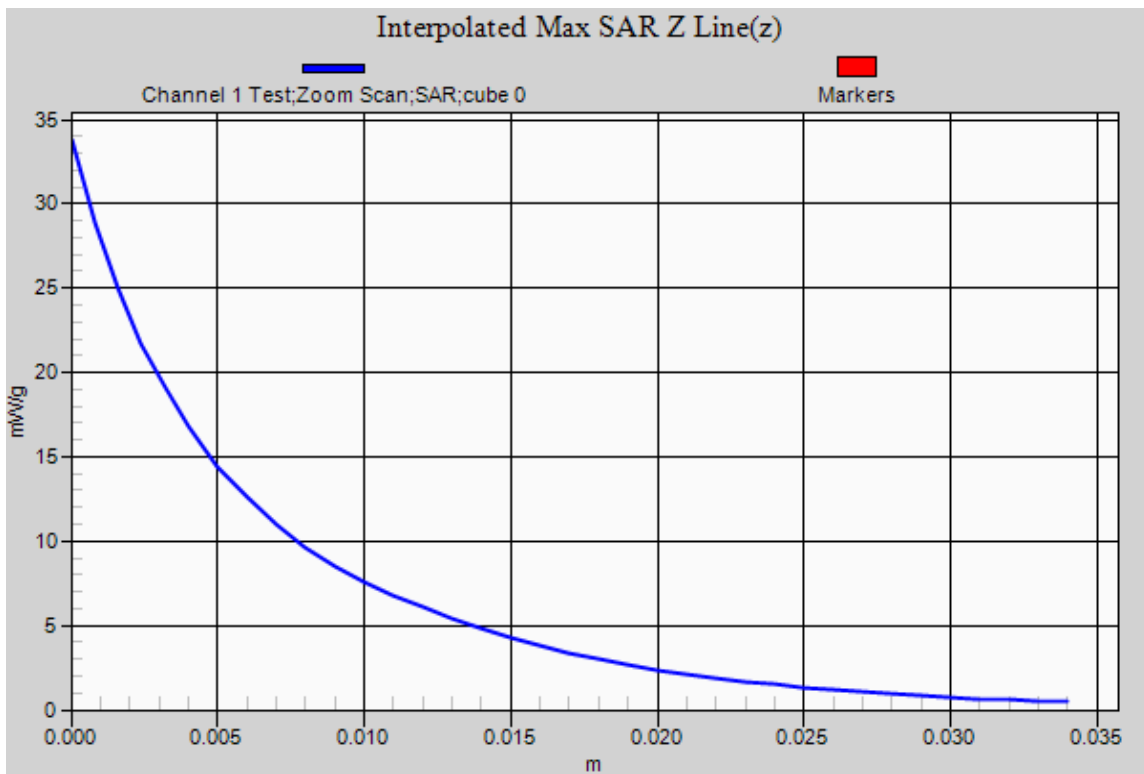


0 dB = 16.380mW/g

SAR MEASUREMENT PLOT 12

Ambient Temperature
 Liquid Temperature
 Humidity

20.1 Degrees Celsius
 19.8 Degrees Celsius
 54.0 %



This document must not be copied or reproduced, except in full without the written permission of the Manager, EMC Technologies Pty Ltd. The certificate on page 3 may be reproduced in full. www.emctech.com.au