

Test Date: 31 May 2005

File Name: [Tablet OFDM 5.2 GHz Ant A Bluetooth Off 31-05-05.da4](#)

DUT: Fujitsu Tablet Niechen with Atheros 11abg Module; Type: WLL 4070; Serial: MAC:0011F5-49FE74

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

* Medium parameters used: $\sigma = 5.49401$; mho/m, $\epsilon_r = 48.1159$; $\rho = 1000 \text{ kg/m}^3$

- Electronics: DAE3 Sn442; Probe: ES3DV3 - SN3029; ConvF(2.27, 2.27, 2.27)

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

Channel 036 Test/Area Scan (161x121x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 1.32 mW/g

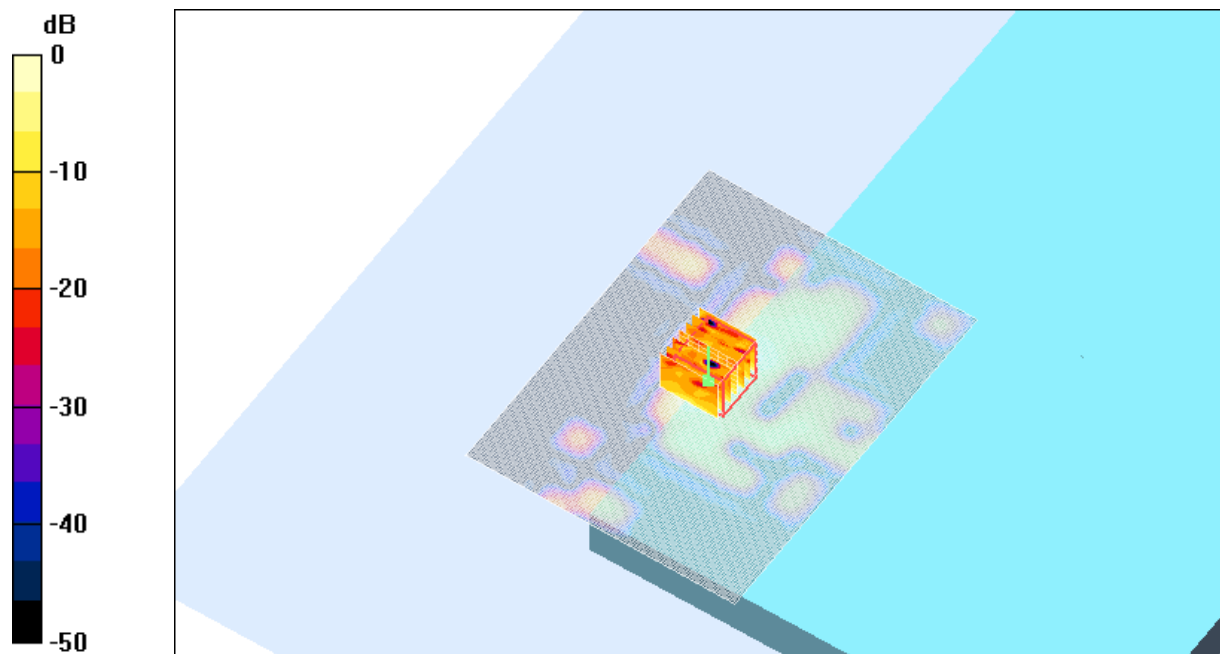
Channel 036 Test/Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 16.9 V/m; Power Drift = 0.4 dB

Peak SAR (extrapolated) = 34.1 W/kg

SAR(1 g) = 0.477 mW/g; SAR(10 g) = 0.134 mW/g

Maximum value of SAR (measured) = 0.834 mW/g



0 dB = 0.834mW/g

SAR MEASUREMENT PLOT 10

Ambient Temperature
Liquid Temperature
Humidity

20.3 Degrees Celsius
19.6 Degrees Celsius
44.0 %

Test Date: 31 May 2005

File Name: [Tablet OFDM 5.2 GHz Ant A Bluetooth Off 31-05-05.da4](#)

DUT: Fujitsu Tablet Niechen with Atheros 11abg Module; Type: WLL 4070; Serial: MAC:0011F5-49FE74

* Communication System: OFDM 5250 MHz; Frequency: 5260 MHz; Duty Cycle: 1:1

* Medium parameters used: $\sigma = 5.66996$; mho/m, $\epsilon_r = 47.8978$; $\rho = 1000 \text{ kg/m}^3$

- Electronics: DAE3 Sn442; Probe: ES3DV3 - SN3029; ConvF(2.27, 2.27, 2.27)

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

Channel 052 Test/Area Scan (101x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.976 mW/g

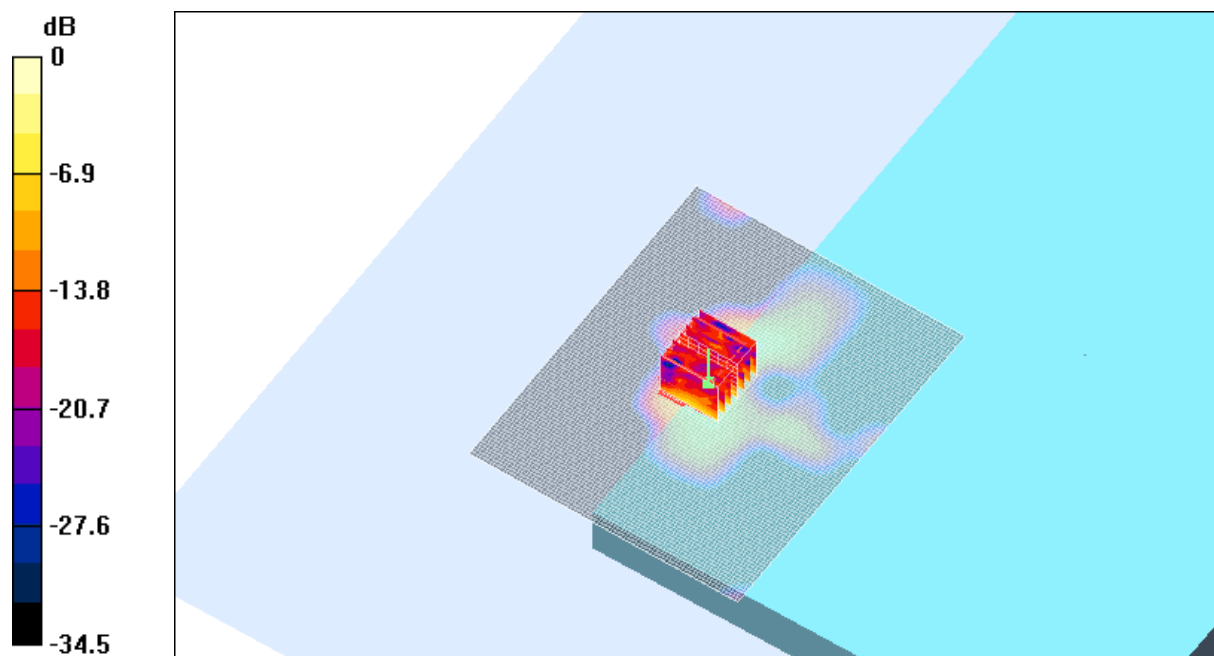
Channel 052 Test/Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 18.9 V/m; Power Drift = -0.2 dB

Peak SAR (extrapolated) = 32850308.9 W/kg

SAR(1 g) = 1.16 mW/g; SAR(10 g) = 0.288 mW/g

Maximum value of SAR (measured) = 1.31 mW/g



0 dB = 1.31mW/g

SAR MEASUREMENT PLOT 11

Ambient Temperature
Liquid Temperature
Humidity

20.3 Degrees Celsius
19.6 Degrees Celsius
44.0 %

Test Date: 31 May 2005

File Name: [Tablet OFDM 5.2 GHz Ant A Bluetooth Off 31-05-05.da4](#)

DUT: Fujitsu Tablet Niechen with Atheros 11abg Module; Type: WLL 4070; Serial: MAC:0011F5-49FE74

* Communication System: OFDM 5250 MHz; Frequency: 5320 MHz; Duty Cycle: 1:1

* Medium parameters used: $\sigma = 5.78201$; mho/m, $\epsilon_r = 47.7321$; $\rho = 1000 \text{ kg/m}^3$

- Electronics: DAE3 Sn442; Probe: ES3DV3 - SN3029; ConvF(2.27, 2.27, 2.27)

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

Channel 064 Test/Area Scan (101x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.38 mW/g

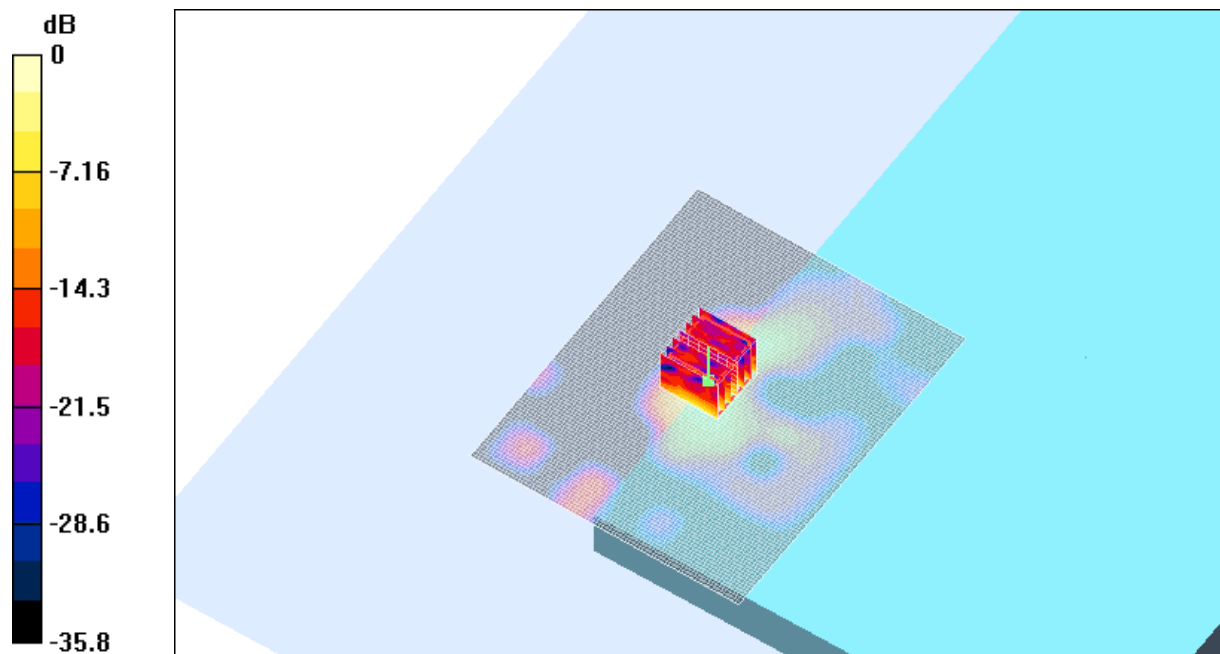
Channel 064 Test/Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 20.6 V/m; Power Drift = -0.2 dB

Peak SAR (extrapolated) = 106.0 W/kg

SAR(1 g) = 1.08 mW/g; SAR(10 g) = 0.315 mW/g

Maximum value of SAR (measured) = 1.82 mW/g



0 dB = 1.82mW/g

SAR MEASUREMENT PLOT 12

Ambient Temperature
Liquid Temperature
Humidity

20.3 Degrees Celsius
19.6 Degrees Celsius
44.0 %

Test Date: 31 May 2005

File Name: [Tablet OFDM 5.2 GHz Ant A Bluetooth Off Extended Battery 31-05-05.da4](#)

DUT: Fujitsu Tablet Niechen with Atheros 11abg Module; Type: WLL 4070; Serial: MAC:0011F5-49FE74

* Communication System: OFDM 5250 MHz; Frequency: 5260 MHz; Duty Cycle: 1:1

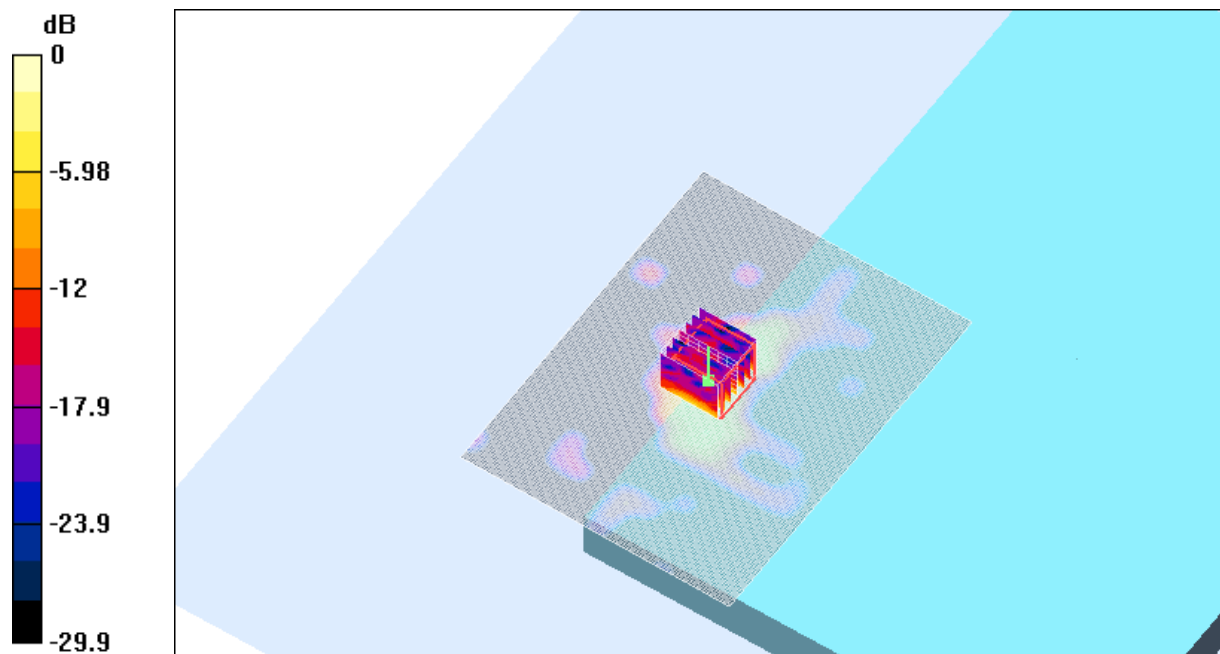
* Medium parameters used: $\sigma = 5.66996$; mho/m, $\epsilon_r = 47.8978$; $\rho = 1000 \text{ kg/m}^3$

- Electronics: DAE3 Sn442; Probe: ES3DV3 - SN3029; ConvF(2.27, 2.27, 2.27)

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

Channel 052 Test/Area Scan (161x121x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 1.6 mW/g

Channel 052 Test/Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm
Reference Value = 19.1 V/m; Power Drift = -0.0 dB
Peak SAR (extrapolated) = 84.2 W/kg
SAR(1 g) = 0.980 mW/g; SAR(10 g) = 0.278 mW/g
Maximum value of SAR (measured) = 1.59 mW/g



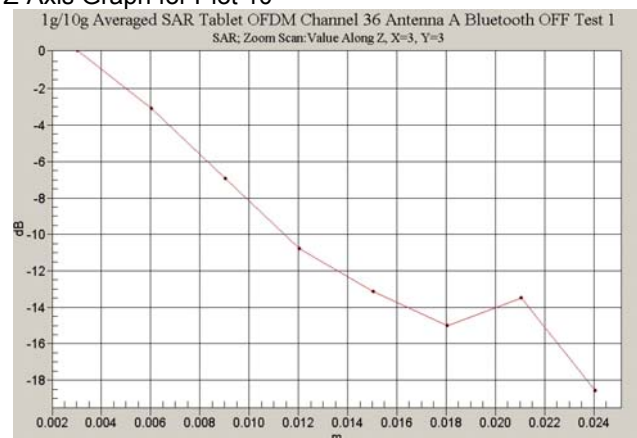
0 dB = 1.59mW/g

SAR MEASUREMENT PLOT 13

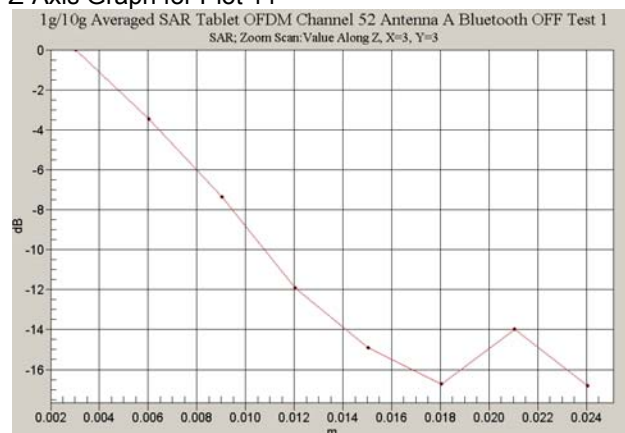
Ambient Temperature
Liquid Temperature
Humidity

20.3 Degrees Celsius
19.6 Degrees Celsius
44.0 %

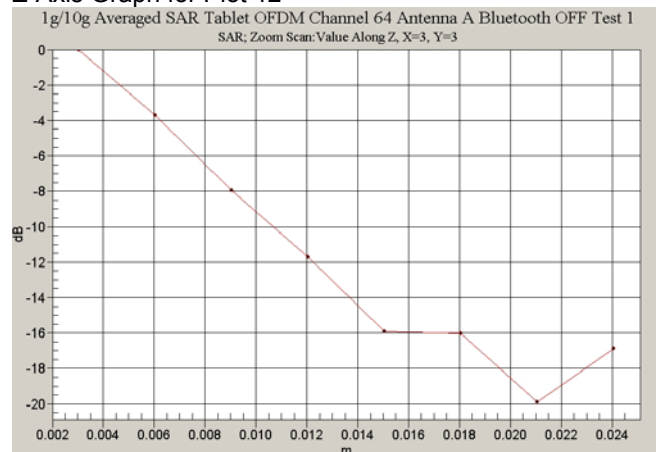
Z-Axis Graph for Plot 10



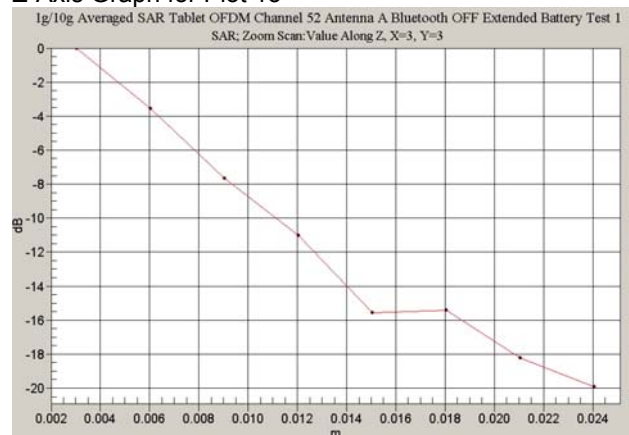
Z-Axis Graph for Plot 11



Z-Axis Graph for Plot 12



Z-Axis Graph for Plot 13



Test Date: 31 May 2005

File Name: [Arm Held OFDM 5.2 GHz Antenna B Bluetooth Off 31-05-05.da4](#)

DUT: Fujitsu Tablet Niechen with Atheros 11abg Module; Type: WLL 4070; Serial: MAC:0011F5-49FE74

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

* Medium parameters used: $\sigma = 5.49401$; mho/m, $\epsilon_r = 48.1159$; $\rho = 1000 \text{ kg/m}^3$

- Electronics: DAE3 Sn442; Probe: ES3DV3 - SN3029; ConvF(2.27, 2.27, 2.27)

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

Channel 036 Test/Area Scan (101x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 0.688 mW/g

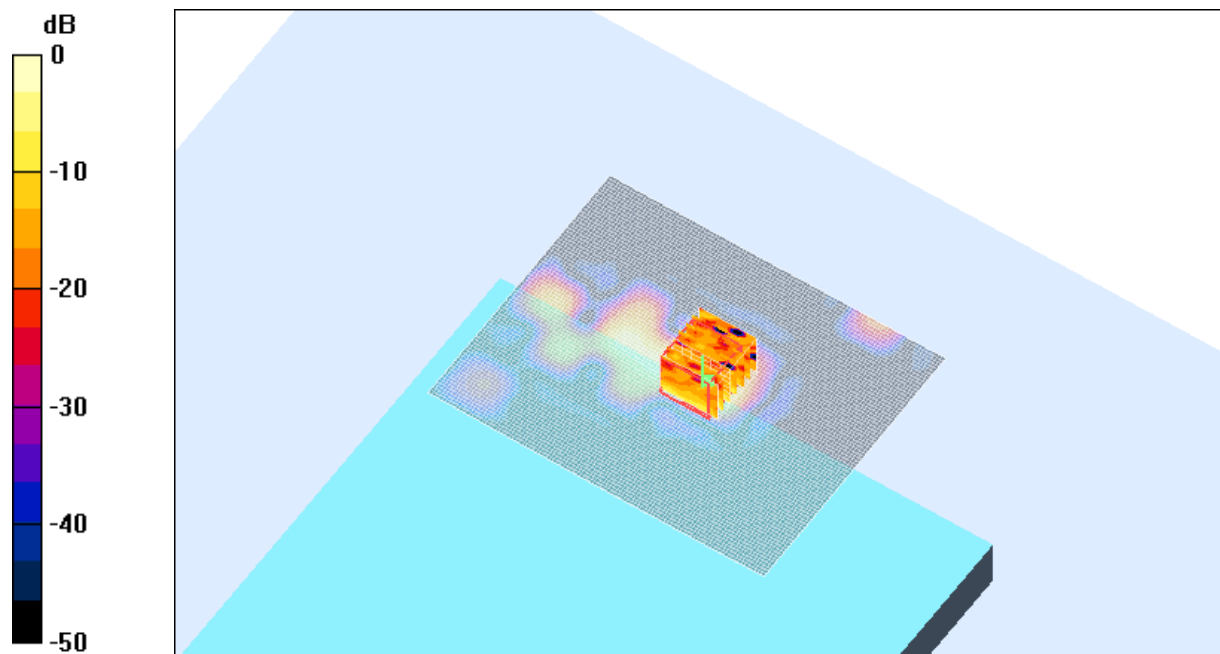
Channel 036 Test/Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 13.3 V/m; Power Drift = 0.3 dB

Peak SAR (extrapolated) = 6.55 W/kg

SAR(1 g) = 0.333 mW/g; SAR(10 g) = 0.101 mW/g

Maximum value of SAR (measured) = 0.692 mW/g



0 dB = 0.692mW/g

SAR MEASUREMENT PLOT 14

Ambient Temperature
Liquid Temperature
Humidity

20.3 Degrees Celsius
19.6 Degrees Celsius
44.0 %

Test Date: 31 May 2005

File Name: [Arm Held OFDM 5.2 GHz Antenna B Bluetooth Off 31-05-05.da4](#)

DUT: Fujitsu Tablet Niechen with Atheros 11abg Module; Type: WLL 4070; Serial: MAC:0011F5-49FE74

* Communication System: OFDM 5250 MHz; Frequency: 5260 MHz; Duty Cycle: 1:1

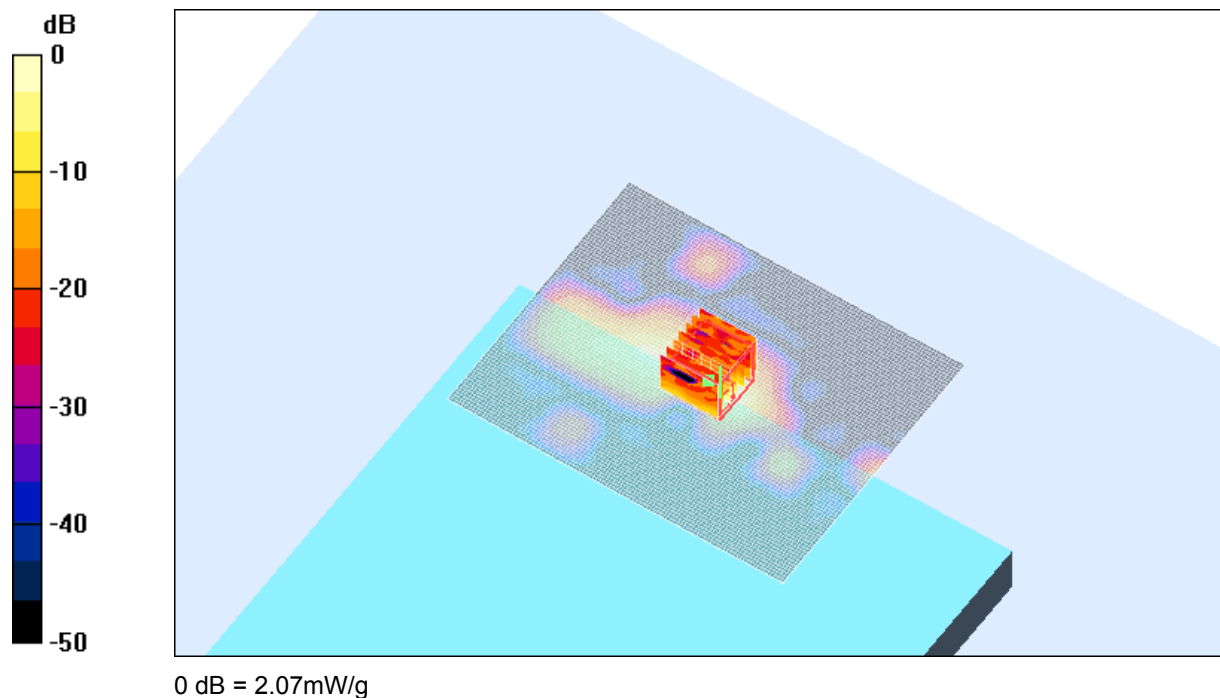
* Medium parameters used: $\sigma = 5.66996$; mho/m, $\epsilon_r = 47.8978$; $\rho = 1000 \text{ kg/m}^3$

- Electronics: DAE3 Sn442; Probe: ES3DV3 - SN3029; ConvF(2.27, 2.27, 2.27)

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

Channel 052 Test/Area Scan (101x81x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 1.5 mW/g

Channel 052 Test/Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm
Reference Value = 22.7 V/m; Power Drift = -0.2 dB
Peak SAR (extrapolated) = 68.9 W/kg
SAR(1 g) = 1.27 mW/g; SAR(10 g) = 0.335 mW/g
Maximum value of SAR (measured) = 2.07 mW/g



SAR MEASUREMENT PLOT 15

Ambient Temperature
Liquid Temperature
Humidity

20.3 Degrees Celsius
19.6 Degrees Celsius
44.0 %

Test Date: 31 May 2005

File Name: [Arm Held OFDM 5.2 GHz Antenna B Bluetooth Off 31-05-05.da4](#)

DUT: Fujitsu Tablet Niechen with Atheros 11abg Module; Type: WLL 4070; Serial: MAC:0011F5-49FE74

* Communication System: OFDM 5250 MHz; Frequency: 5320 MHz; Duty Cycle: 1:1

* Medium parameters used: $\sigma = 5.78201$; mho/m, $\epsilon_r = 47.7321$; $\rho = 1000 \text{ kg/m}^3$

- Electronics: DAE3 Sn442; Probe: ES3DV3 - SN3029; ConvF(2.27, 2.27, 2.27)

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

Channel 064 Test/Area Scan (101x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.43 mW/g

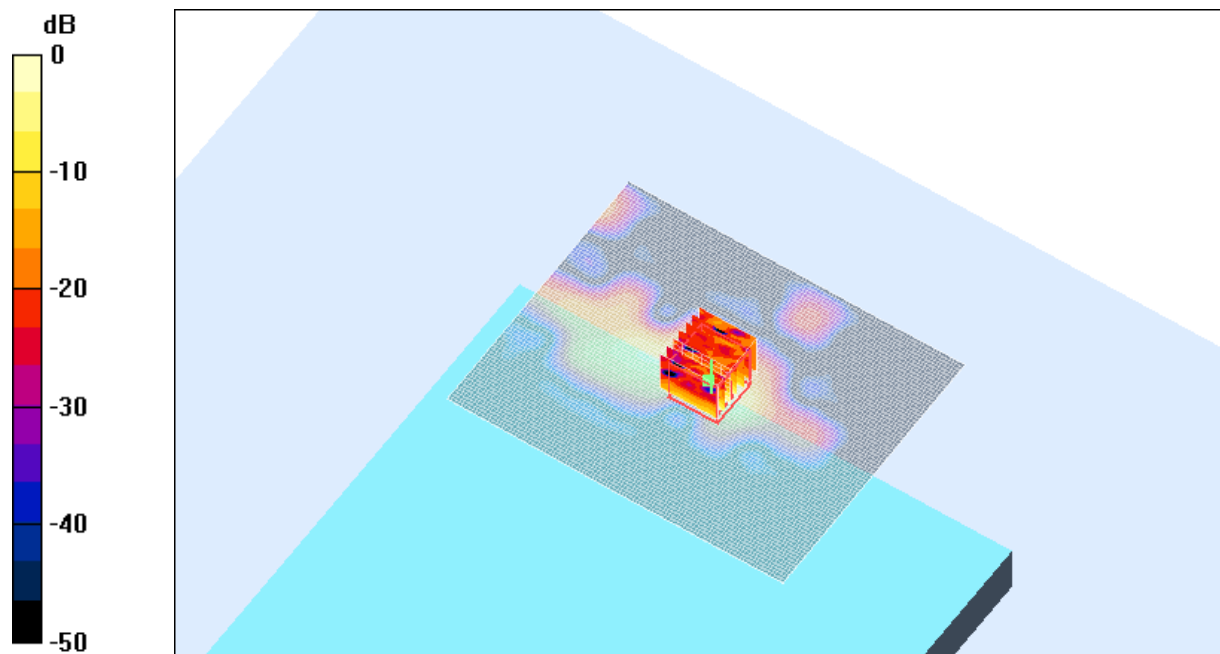
Channel 064 Test/Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 21.7 V/m; Power Drift = 0.009 dB

Peak SAR (extrapolated) = 6.78 W/kg

SAR(1 g) = 1.32 mW/g; SAR(10 g) = 0.314 mW/g

Maximum value of SAR (measured) = 2.17 mW/g



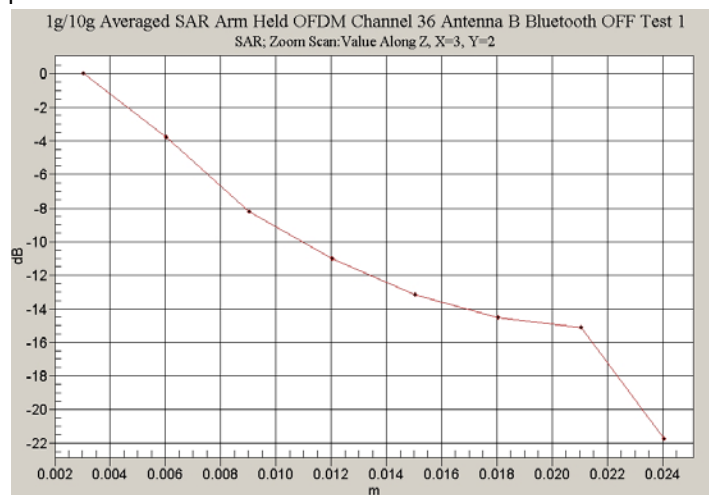
0 dB = 2.17mW/g

SAR MEASUREMENT PLOT 16

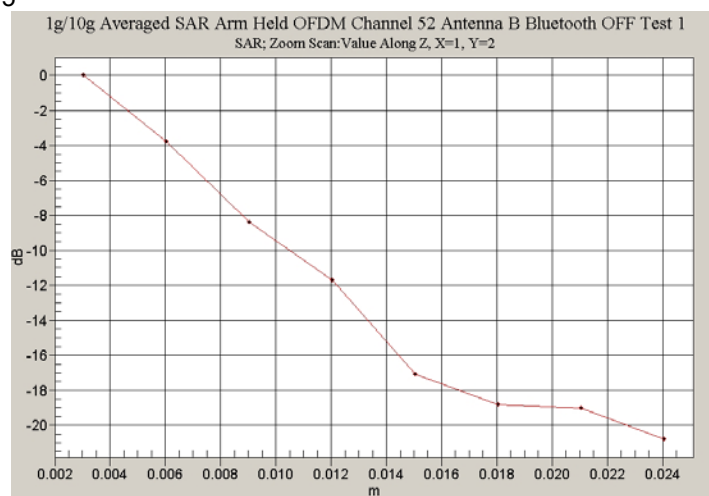
Ambient Temperature
Liquid Temperature
Humidity

20.3 Degrees Celsius
19.6 Degrees Celsius
44.0 %

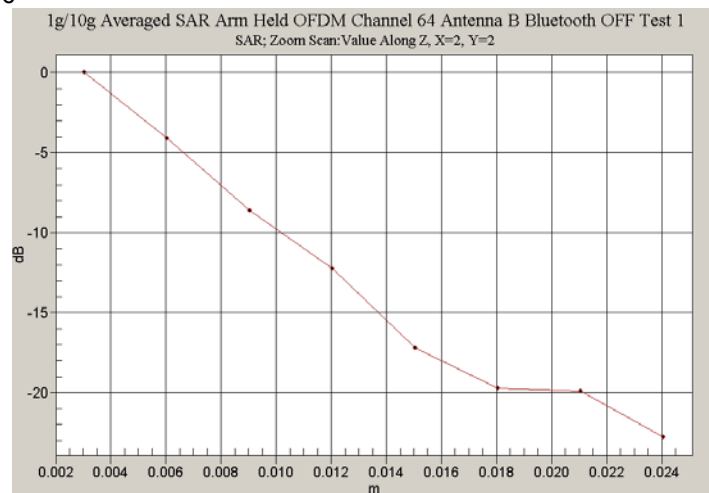
Z-Axis Graph for Plot 14



Z-Axis Graph for Plot 15



Z-Axis Graph for Plot 16



Test Date: 27 May 2005

File Name: [Tablet OFDM 5.6 GHz Antenna A Bluetooth On Prescan 27-05-05.da4](#)

DUT: Fujitsu Tablet Niechen with Atheros 11abg Module; Type: WLL 4070; Serial: MAC:0011F5-49FE74

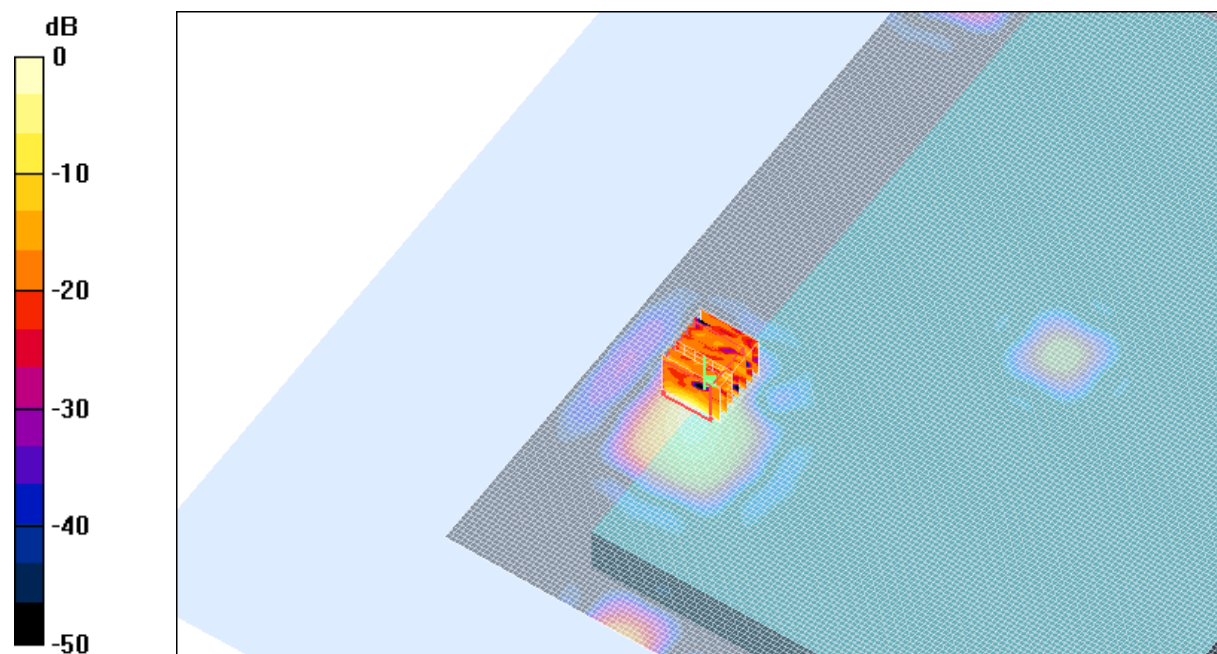
* Communication System: OFDM 5770 MHz; Frequency: 5785 MHz; Duty Cycle: 1:1

* Medium parameters used: $\sigma = 6.1094$; mho/m, $\epsilon_r = 44.3914$; $\rho = 1000 \text{ kg/m}^3$

- Electronics: DAE3 Sn442; Probe: ES3DV3 - SN3029; ConvF(1.98, 1.98, 1.98)

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

Channel 157 Test/Area Scan (151x201x1): Measurement grid: dx=20mm, dy=20mm



SAR MEASUREMENT PLOT 17

Ambient Temperature
Liquid Temperature
Humidity

20.2 Degrees Celsius
19.7 Degrees Celsius
47.0 %

Test Date: 27 May 2005

File Name: [Tablet OFDM 5.6 GHz Antenna A Bluetooth On 27-05-05.da4](#)

DUT: Fujitsu Tablet Niechen with Atheros 11abg Module; Type: WLL 4070; Serial: MAC:0011F5-49FE74

* Communication System: OFDM 5770 MHz; Frequency: 5785 MHz; Duty Cycle: 1:1

* Medium parameters used: $\sigma = 6.1094$; mho/m, $\epsilon_r = 44.3914$; $\rho = 1000 \text{ kg/m}^3$

- Electronics: DAE3 Sn442; Probe: ES3DV3 - SN3029; ConvF(1.98, 1.98, 1.98)

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

Channel 157 Test/Area Scan (101x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.12 mW/g

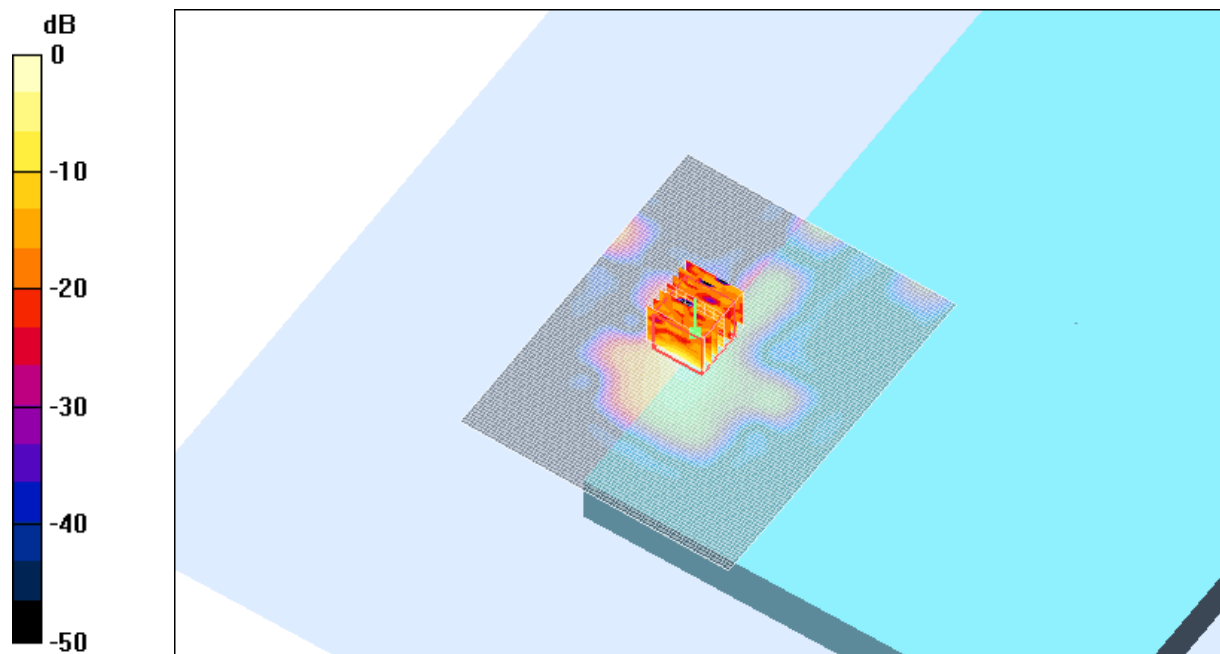
Channel 157 Test/Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 28.7 V/m; Power Drift = -0.0 dB

Peak SAR (extrapolated) = 60.6 W/kg

SAR(1 g) = 1.04 mW/g; SAR(10 g) = 0.264 mW/g

Maximum value of SAR (measured) = 1.83 mW/g



0 dB = 1.83mW/g

SAR MEASUREMENT PLOT 18

Ambient Temperature
Liquid Temperature
Humidity

20.2 Degrees Celsius
19.7 Degrees Celsius
47.0 %

Test Date: 31 May 2005

File Name: [Tablet OFDM 5.2 GHz Ant A Bluetooth On 31-05-05.da4](#)

DUT: Fujitsu Tablet Niechen with Atheros 11abg Module; Type: WLL 4070; Serial: MAC:0011F5-49FE74

* Communication System: OFDM 5250 MHz; Frequency: 5260 MHz; Duty Cycle: 1:1

* Medium parameters used: $\sigma = 5.66996$; mho/m, $\epsilon_r = 47.8978$; $\rho = 1000 \text{ kg/m}^3$

- Electronics: DAE3 Sn442; Probe: ES3DV3 - SN3029; ConvF(2.27, 2.27, 2.27)

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

Channel 052 Bluetooth On Test/Area Scan (101x81x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 1.04 mW/g

Channel 052 Bluetooth On Test/Zoom Scan (7x7x8)/Cube 0: Measurement grid:

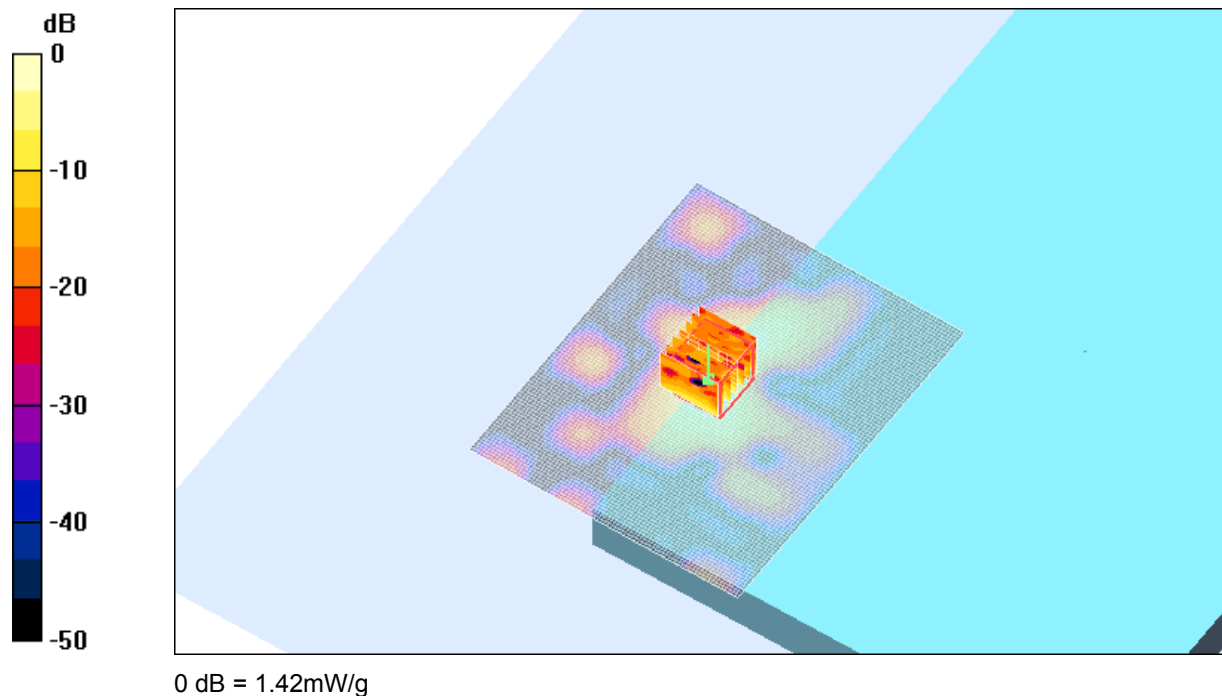
dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 20.3 V/m; Power Drift = -0.4 dB

Peak SAR (extrapolated) = 31.8 W/kg

SAR(1 g) = 0.858 mW/g; SAR(10 g) = 0.245 mW/g

Maximum value of SAR (measured) = 1.42 mW/g

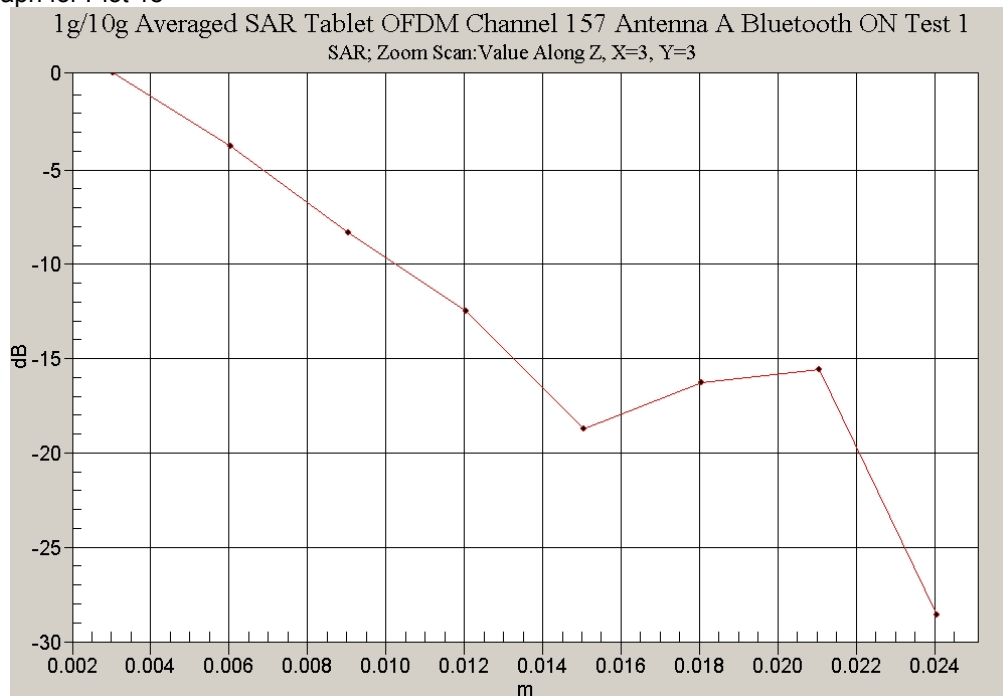


SAR MEASUREMENT PLOT 19

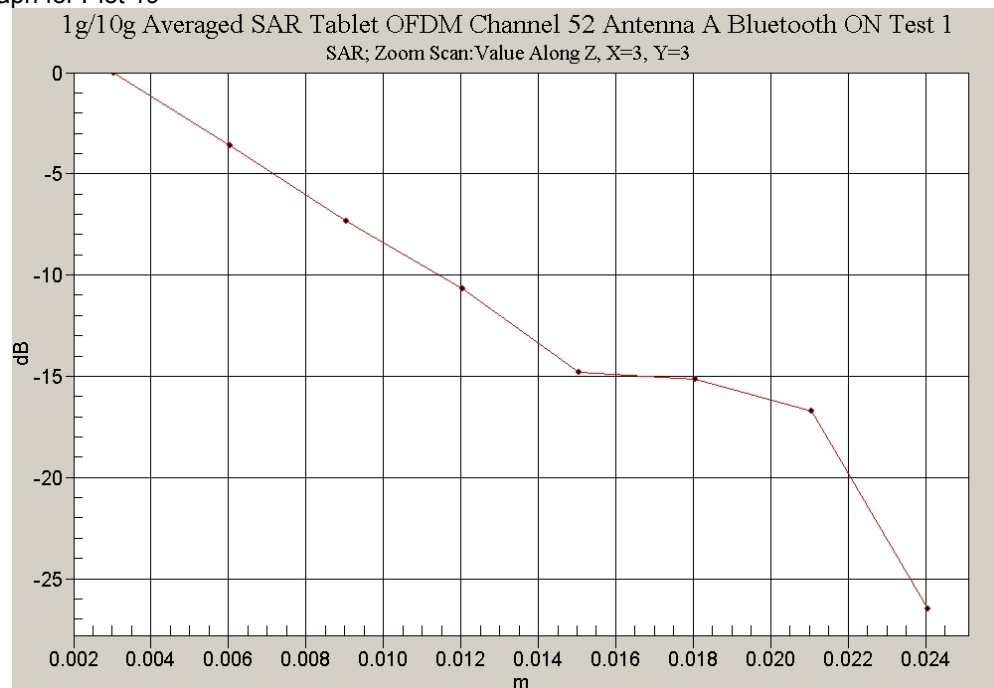
Ambient Temperature
Liquid Temperature
Humidity

20.3 Degrees Celsius
19.6 Degrees Celsius
44.0 %

Z-Axis Graph for Plot 18



Z-Axis Graph for Plot 19



Test Date: 26 May 2005

File Name: [Validation 5800MHz \(DAE 442 Probe ES3DV3\) 26-05-05.da4](#)

DUT: Dipole 5200_5800 MHz; Type: D5GHzV2; Serial: 1008

* Communication System: CW 5800 MHz; Frequency: 5800 MHz; Duty Cycle: 1:1

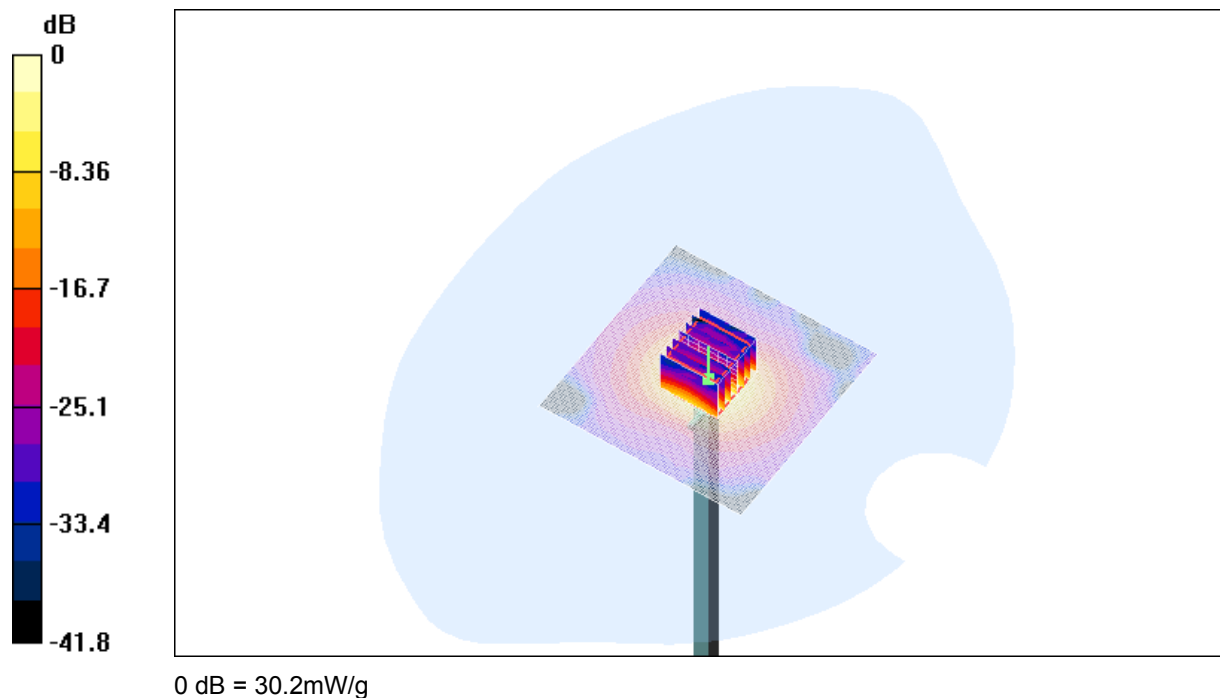
* Medium parameters used: $\sigma = 6.03665$; mho/m, $\epsilon_r = 44.9988$; $\rho = 1000$ kg/m³

- Electronics: DAE3 Sn442; Probe: ES3DV3- SN3029; ConvF(1.98, 1.98, 1.98)

- Phantom: SAM 22; Serial: 1260; Phantom section: Flat Section

Channel 1 Test 2/Area Scan (91x91x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (interpolated) = 32.1 mW/g

Channel 1 Test 2/Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm
Reference Value = 80.2 V/m; Power Drift = -0.007 dB
Peak SAR (extrapolated) = 71.6 W/kg
SAR(1 g) = 18.9 mW/g; SAR(10 g) = 5.23 mW/g
Maximum value of SAR (measured) = 30.2 mW/g



SAR MEASUREMENT PLOT 20

Ambient Temperature
Liquid Temperature
Humidity

20.0 Degrees Celsius
19.6 Degrees Celsius
42.0 %

Test Date: 27 May 2005

File Name: [Validation 5800MHz \(DAE 442 Probe ES3DV3\) 27-05-05.da4](#)

DUT: Dipole 5200_5800 MHz; Type: D5GHzV2; Serial: 1008

* Communication System: CW 5800 MHz; Frequency: 5800 MHz; Duty Cycle: 1:1

* Medium parameters used: $\sigma = 6.12075$; mho/m, $\epsilon_r = 44.703$; $\rho = 1000 \text{ kg/m}^3$

- Electronics: DAE3 Sn442; Probe: ES3DV3 - SN3029; ConvF(1.98, 1.98, 1.98)

- Phantom: SAM 22; Serial: 1260; Phantom section: Flat Section

Channel 1 Test/Area Scan (91x91x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 29.4 mW/g

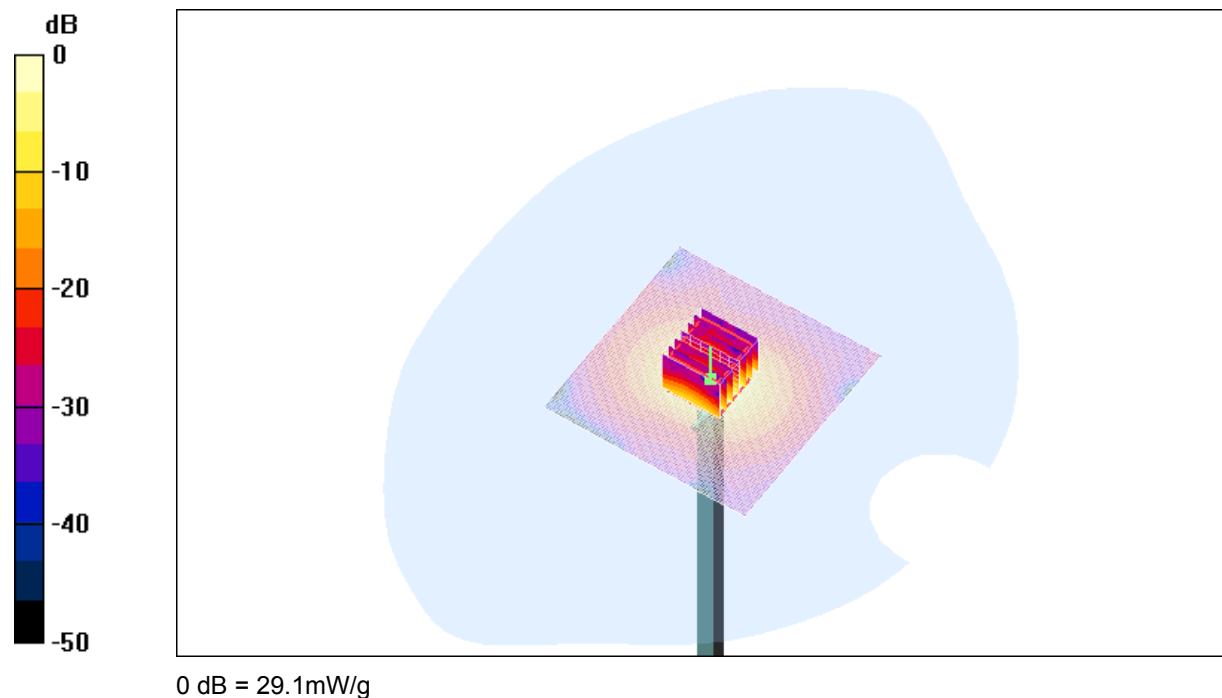
Channel 1 Test/Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 76.3 V/m; Power Drift = -0.0 dB

Peak SAR (extrapolated) = 71.6 W/kg

SAR(1 g) = 18.3 mW/g; SAR(10 g) = 4.99 mW/g

Maximum value of SAR (measured) = 29.1 mW/g



SAR MEASUREMENT PLOT 21

Ambient Temperature
Liquid Temperature
Humidity

20.2 Degrees Celsius
19.7 Degrees Celsius
47.0 %

Test Date: 31 May 2005

File Name: [Validation 5200MHz \(DAE 442 Probe ES3DV3\) 31-05-05.da4](#)

DUT: Dipole 5200_5800 MHz; Type: D5GHzV2; Serial: 1008

* Communication System: CW 5200 MHz; Frequency: 5200 MHz; Duty Cycle: 1:1

* Medium parameters used: $\sigma = 5.51665$; mho/m, $\epsilon_r = 47.602$; $\rho = 1000$ kg/m³

- Electronics: DAE3 Sn442; Probe: ES3DV3 - SN3029; ConvF(2.27, 2.27, 2.27)

- Phantom: SAM 22; Serial: 1260; Phantom section: Flat Section

Channel 1 Test/Area Scan (91x91x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 32.8 mW/g

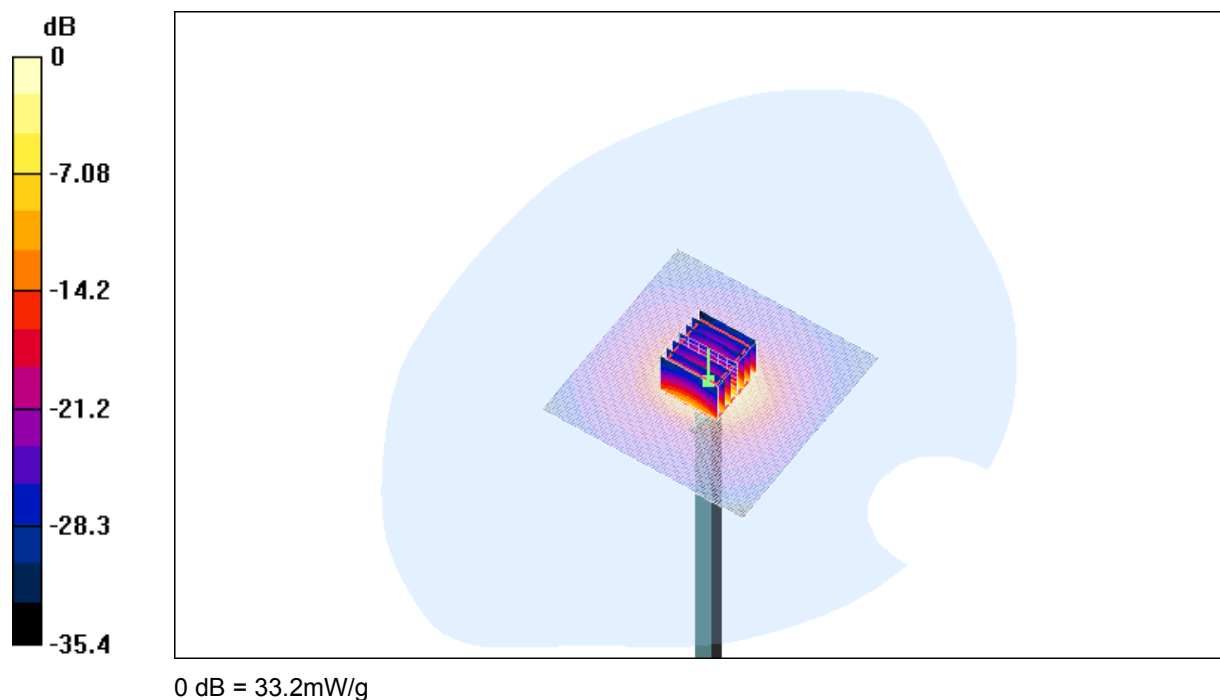
Channel 1 Test/Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 84.4 V/m; Power Drift = 0.1 dB

Peak SAR (extrapolated) = 78.2 W/kg

SAR(1 g) = 20.8 mW/g; SAR(10 g) = 5.77 mW/g

Maximum value of SAR (measured) = 33.2 mW/g

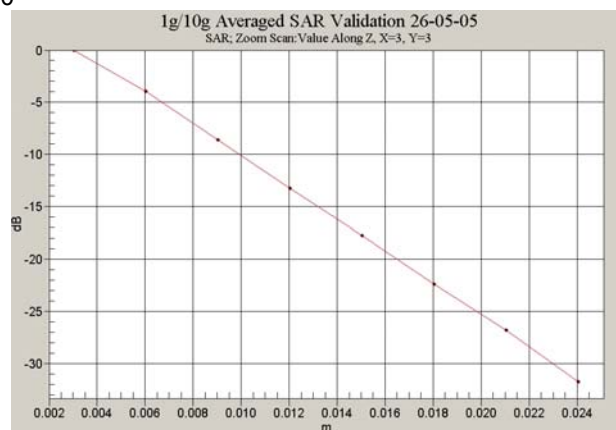


SAR MEASUREMENT PLOT 22

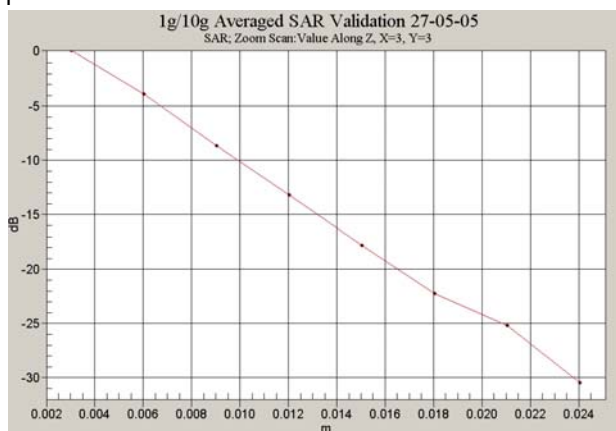
Ambient Temperature
Liquid Temperature
Humidity

20.3 Degrees Celsius
19.6 Degrees Celsius
44.0 %

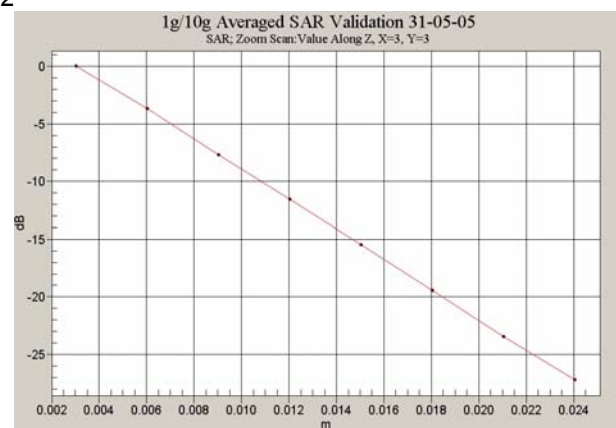
Z-Axis Graph for Plot 20



Z-Axis Graph for Plot 21



Z-Axis Graph for Plot 22



APPENDIX C

SAR TESTING EQUIPMENT CALIBRATION CERTIFICATE ATTACHMENTS

Calibration Certificate Attachments

- | | |
|---|---------|
| 1. 5200/5800GHz E-Field Probe Calibration Sheet | 9 Pages |
| 2. 5200/5800MHz Dipole Calibration Sheet | 6 pages |