

Test Date: 13 July 2005

File Name: [Edge On OFDM 5.25 GHz Antenna A Bluetooth Off 13-07-05.da4](#)

DUT: Fujitsu Tablet Sadalarn with Atheros 11abg; Type: WLL 4070; Serial: MAC:0011F5-496CC4

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

* Medium parameters used: $\sigma = 5.48162$; mho/m, $\epsilon_r = 47.6263$; $\rho = 1000 \text{ kg/m}^3$

- 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 52 Test/Area Scan (61x81x1): Measurement grid: dx=20mm, dy=20mm

Maximum value of SAR (interpolated) = 1.15 mW/g

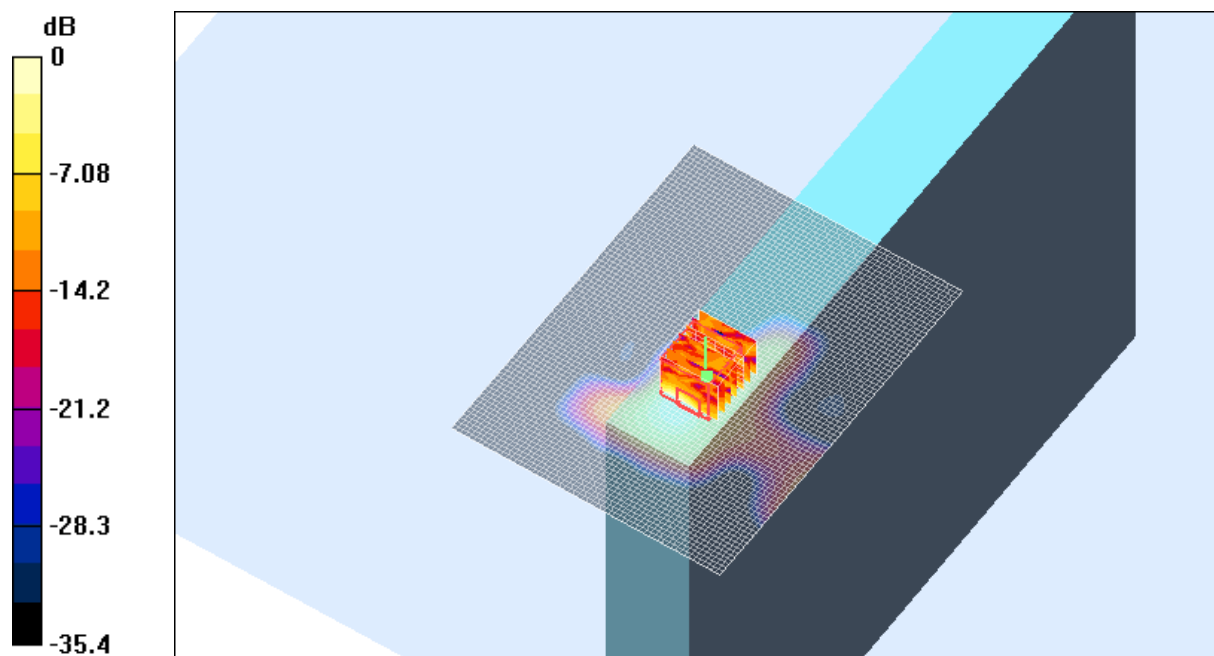
Channel 52 Test/Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 15.3 V/m; Power Drift = 0.2 dB

Peak SAR (extrapolated) = 6262143.1 W/kg

SAR(1 g) = 0.598 mW/g; SAR(10 g) = 0.134 mW/g

Maximum value of SAR (measured) = 0.621 mW/g



0 dB = 0.621mW/g

SAR MEASUREMENT PLOT 14

Ambient Temperature
Liquid Temperature
Humidity

20.7 Degrees Celsius
19.9 Degrees Celsius
43.0 %

Test Date: 20 May 2005

File Name: [Arm Held OFDM 5.25 GHz Antenna B Bluetooth On 20-05-05.da4](#)

DUT: Fujitsu Tablet Sadalarn with Atheros 11abg; Type: WLL 4070; Serial: MAC:0011F5-496CC4

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

* Medium parameters used: $\sigma = 5.22345$; mho/m, $\epsilon_r = 47.5527$; $\rho = 1000 \text{ kg/m}^3$

- 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 52 Test/Area Scan (121x161x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 2.42 mW/g

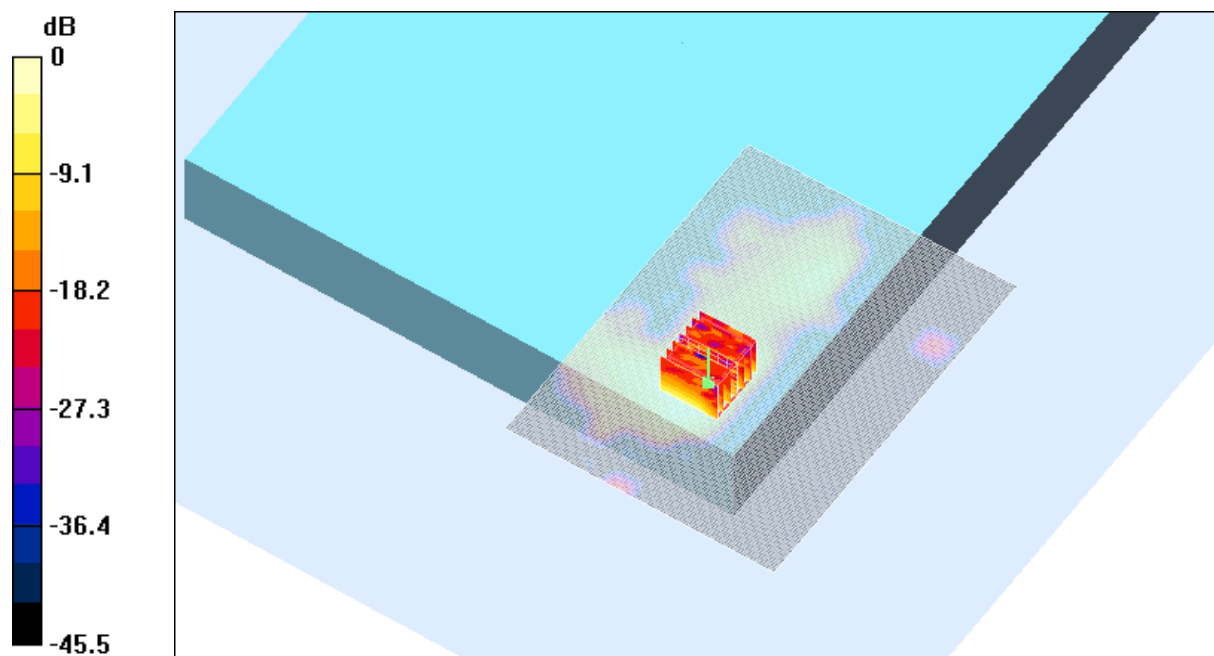
Channel 52 Test/Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 26.8 V/m; Power Drift = 0.1 dB

Peak SAR (extrapolated) = 6.37 W/kg

SAR(1 g) = 1.39 mW/g; SAR(10 g) = 0.402 mW/g

Maximum value of SAR (measured) = 2.33 mW/g



0 dB = 2.33mW/g

SAR MEASUREMENT PLOT 15

Ambient Temperature
Liquid Temperature
Humidity

19.8 Degrees Celsius
19.1 Degrees Celsius
37.0 %

Test Date: 18 May 2005

File Name: [Arm Held OFDM 5.77 GHz Antenna B Bluetooth On 18-05-05.da4](#)

DUT: Fujitsu Tablet Sadalarn with Atheros 11abg; Type: WLL 4070; Serial: MAC:0011F5-496CC4

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

* Medium parameters used: $\sigma = 6.09268$; mho/m, $\epsilon_r = 45.9239$; $\rho = 1000 \text{ kg/m}^3$

- 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 (81x101x1): Measurement grid: dx=15mm, dy=15mm

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

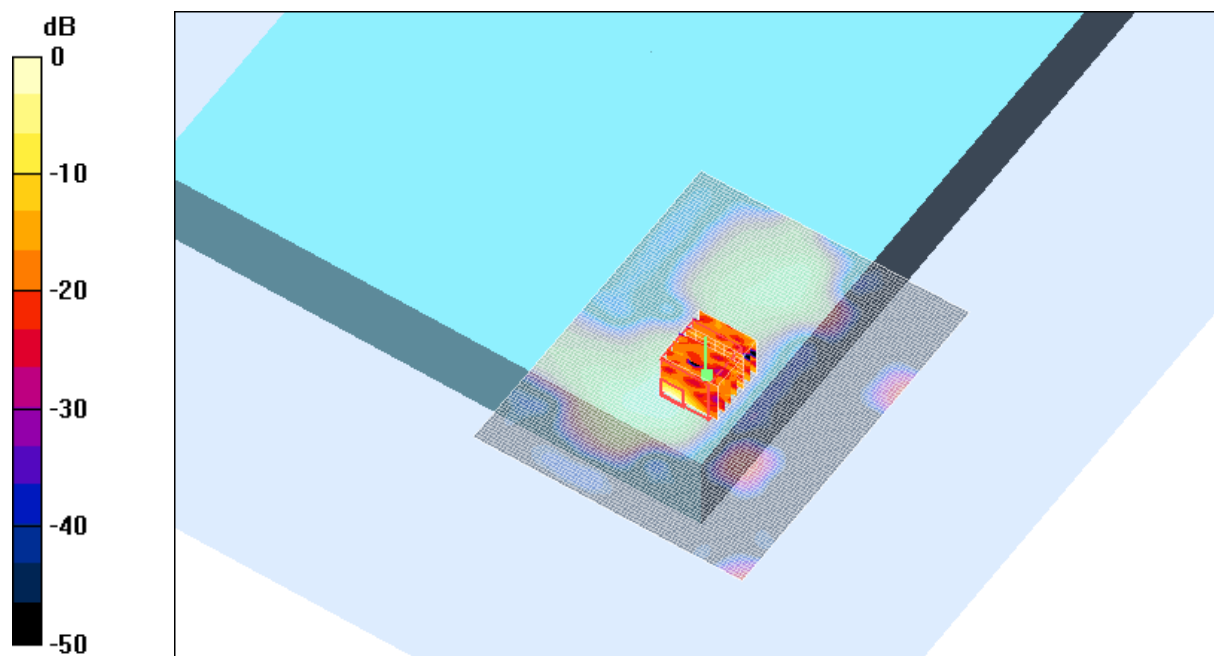
Channel 157 Test/Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 10.8 V/m; Power Drift = -0.1 dB

Peak SAR (extrapolated) = 37 W/kg

SAR(1 g) = 1.28 mW/g; SAR(10 g) = 0.419 mW/g

Maximum value of SAR (measured) = 2.34 mW/g



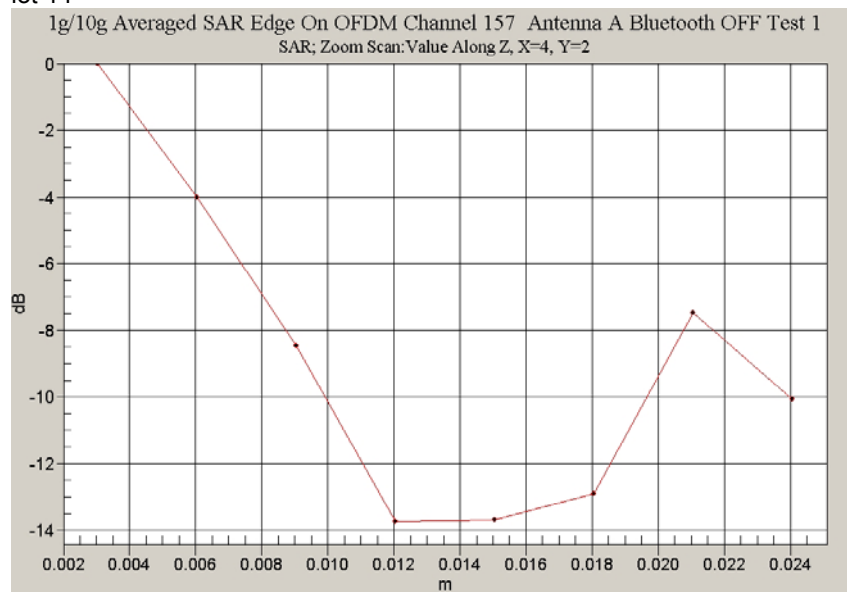
0 dB = 2.34mW/g

SAR MEASUREMENT PLOT 16

Ambient Temperature
Liquid Temperature
Humidity

20.6 Degrees Celsius
20.0 Degrees Celsius
50.0 %

Z-Axis Scan for Plot 14



Test Date: 18 May 2005

File Name: [Validation 5800MHz \(DAE 442 Probe ES3DV3\) 18-05-05.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: $\sigma = 6.05451$; mho/m, $\epsilon_r = 44.8875$; $\rho = 1000 \text{ kg/m}^3$

- 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) = 30.2 mW/g

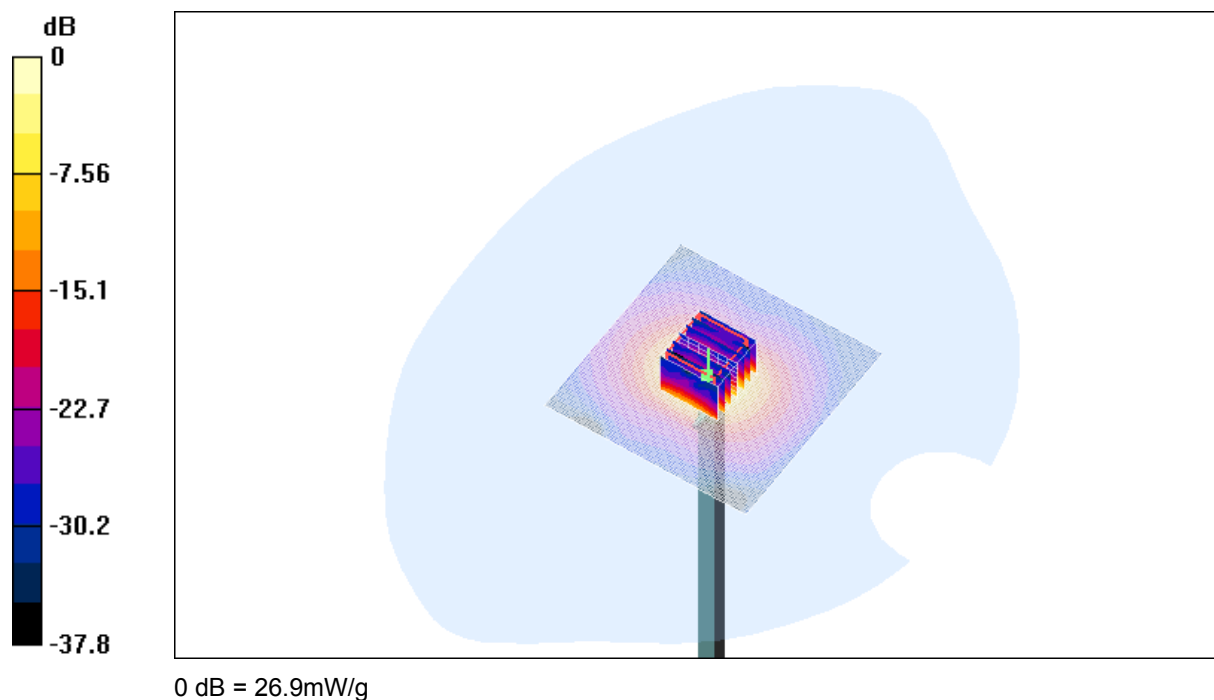
Channel 1 Test/Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 74.3 V/m; Power Drift = -0.008 dB

Peak SAR (extrapolated) = 67.8 W/kg

SAR(1 g) = 18.3 mW/g; SAR(10 g) = 5.13 mW/g

Maximum value of SAR (measured) = 26.9 mW/g



SAR MEASUREMENT PLOT 17

Ambient Temperature
Liquid Temperature
Humidity

20.6 Degrees Celsius
20.0 Degrees Celsius
50.0 %

Test Date: 19th February 2005

File Name: [Validation 5800MHz \(DAE 442 Probe ES3DV3\) 19-05-05.da4](#)

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

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

* Medium: 5200_5800MHz Validation; Medium parameters used: $\sigma = 6.08823$; mho/m, $\epsilon_r = 44.6616$; $\rho = 1000$ 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/Area Scan (91x91x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 31.1 mW/g

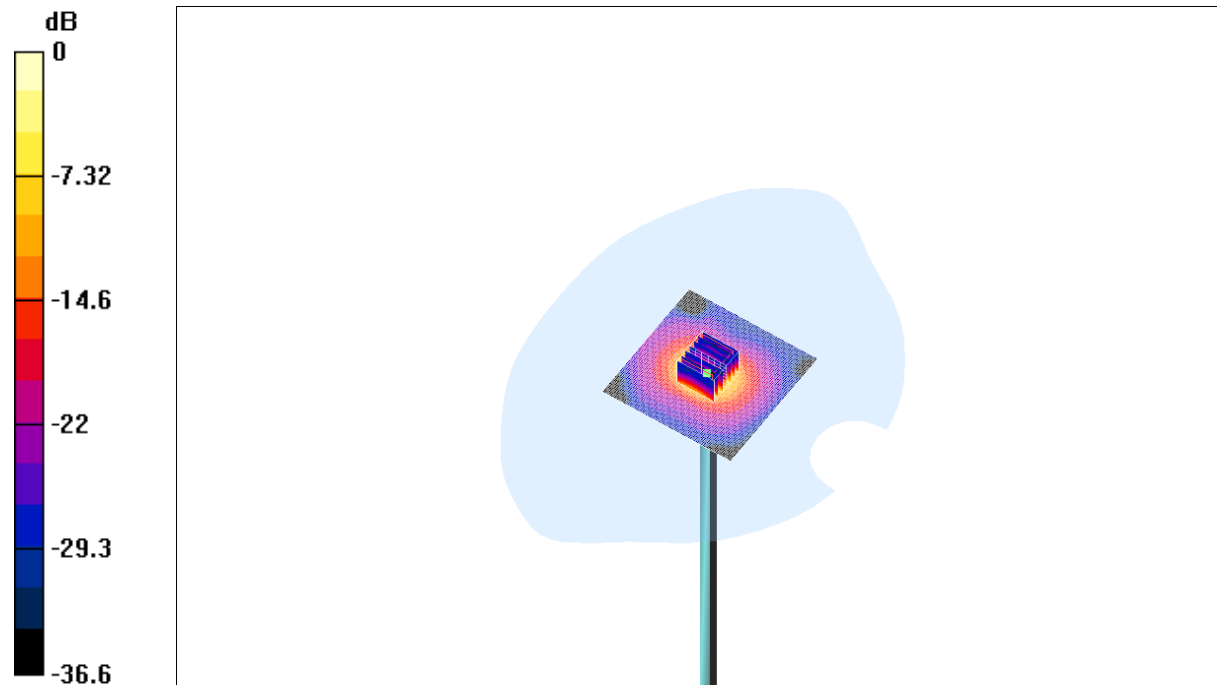
Channel 1 Test/Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 77.3 V/m; Power Drift = 0.2 dB

Peak SAR (extrapolated) = 71.7 W/kg

SAR(1 g) = 18.9 mW/g; SAR(10 g) = 5.29 mW/g

Maximum value of SAR (measured) = 27.6 mW/g



0 dB = 27.6mW/g

SAR MEASUREMENT PLOT 18

Ambient Temperature

20.7 Degrees Celsius

Liquid Temperature

20.1 Degrees Celsius

Humidity

47 %

Test Date: 20 May 2005

File Name: [Validation 5200MHz \(DAE 442 Probe ES3DV3\) 20-05-05.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: $\sigma = 5.12152$; mho/m, $\epsilon_r = 47.746$; $\rho = 1000$ 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) = 32.9 mW/g

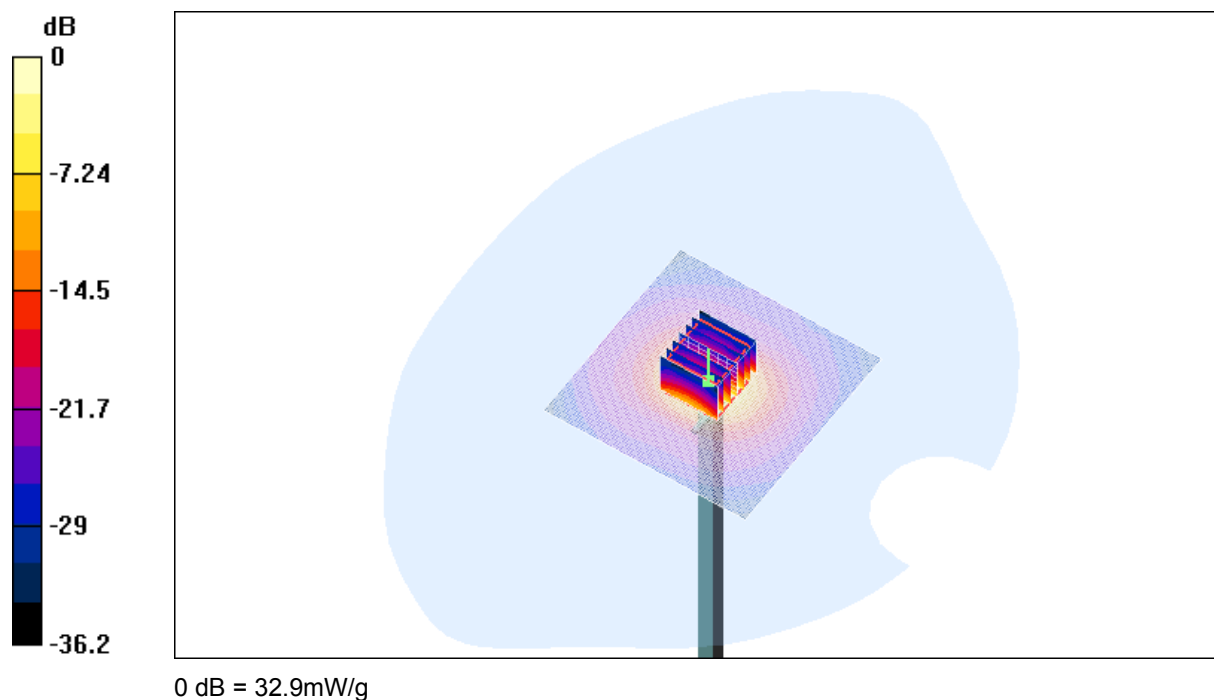
Channel 1 Test/Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 84.7 V/m; Power Drift = 0.1 dB

Peak SAR (extrapolated) = 78.2 W/kg

SAR(1 g) = 20.6 mW/g; SAR(10 g) = 5.69 mW/g

Maximum value of SAR (measured) = 32.9 mW/g



SAR MEASUREMENT PLOT 19

Ambient Temperature
Liquid Temperature
Humidity

19.8 Degrees Celsius
19.1 Degrees Celsius
37.0 %

Test Date: 13 July 2005

File Name: [Validation 5200MHz \(DAE 442 Probe ES3DV3\) 13-07-05.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: $\sigma = 5.34693$; mho/m, $\epsilon_r = 47.4088$; $\rho = 1000$ 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) = 35 mW/g

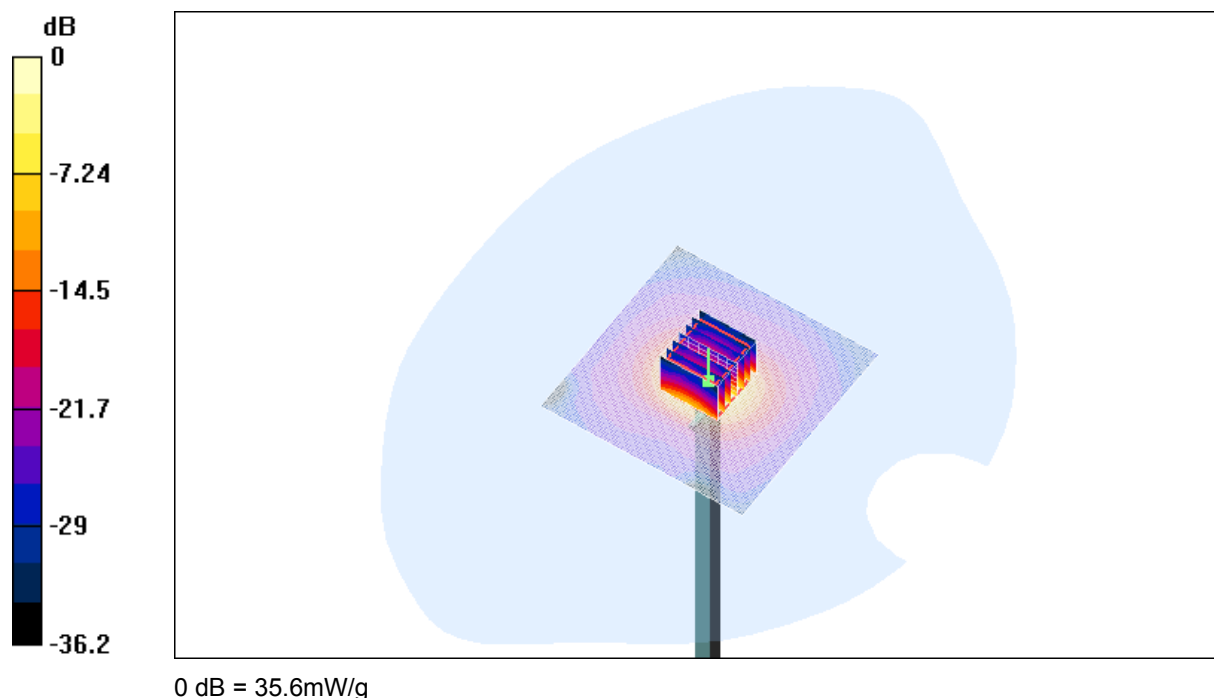
Channel 1 Test/Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 87.7 V/m; Power Drift = 0.1 dB

Peak SAR (extrapolated) = 82.9 W/kg

SAR(1 g) = 22.2 mW/g; SAR(10 g) = 6.18 mW/g

Maximum value of SAR (measured) = 35.6 mW/g



SAR MEASUREMENT PLOT 20

Ambient Temperature
Liquid Temperature
Humidity

20.7 Degrees Celsius
19.9 Degrees Celsius
43.0 %

Test Date: 15 July 2005

File Name: [Validation 5800MHz \(DAE 442 Probe ES3DV3\) 15-07-05.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: $\sigma = 5.97018$; mho/m, $\epsilon_r = 46.5359$; $\rho = 1000$ 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/Area Scan (91x91x1): Measurement grid: dx=10mm, dy=10mm

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

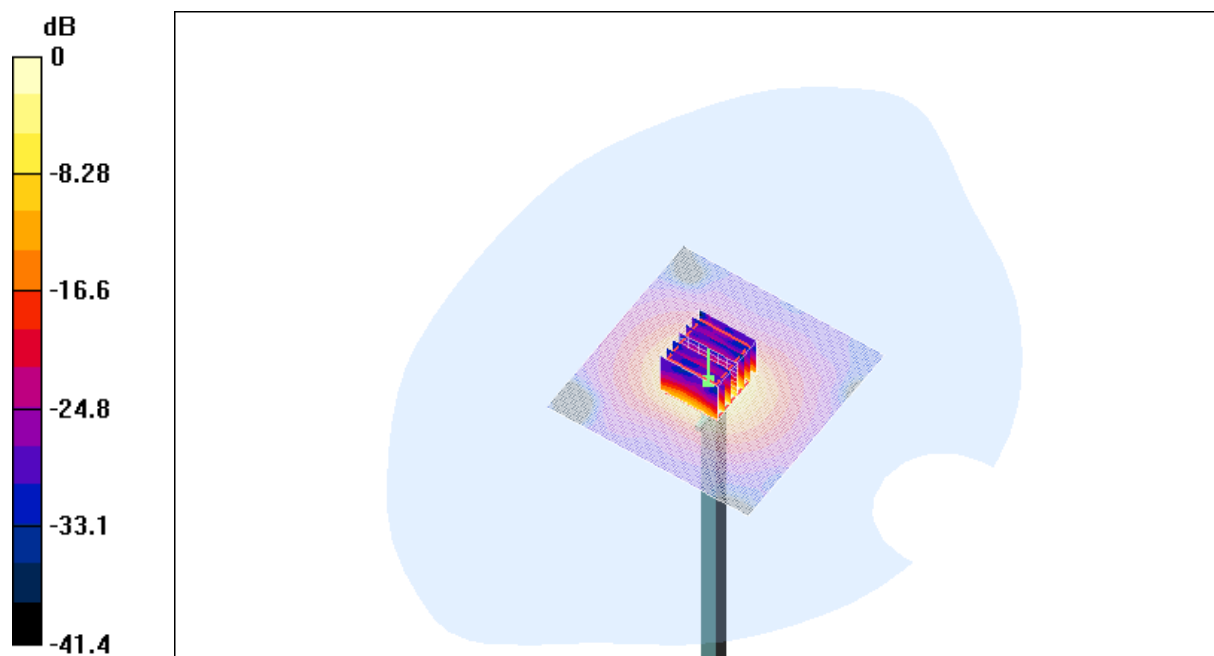
Channel 1 Test/Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 79 V/m; Power Drift = -0.2 dB

Peak SAR (extrapolated) = 74.7 W/kg

SAR(1 g) = 19.6 mW/g; SAR(10 g) = 5.48 mW/g

Maximum value of SAR (measured) = 31.1 mW/g



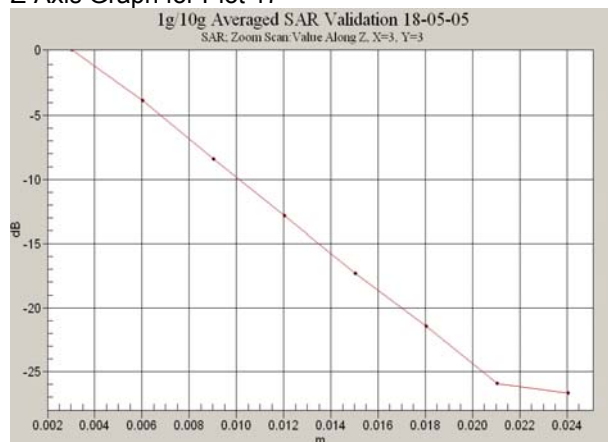
0 dB = 31.1mW/g

SAR MEASUREMENT PLOT 21

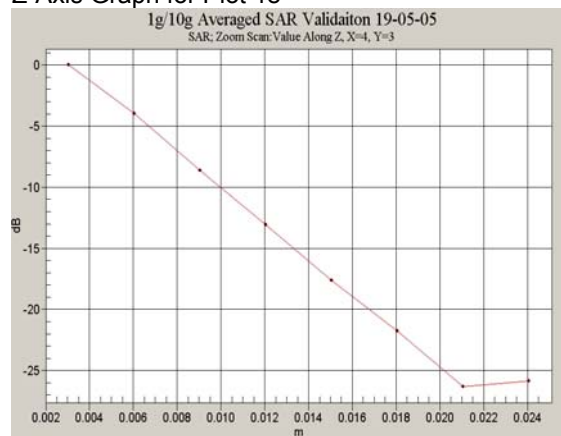
Ambient Temperature
Liquid Temperature
Humidity

20.0 Degrees Celsius
19.5 Degrees Celsius
45.0 %

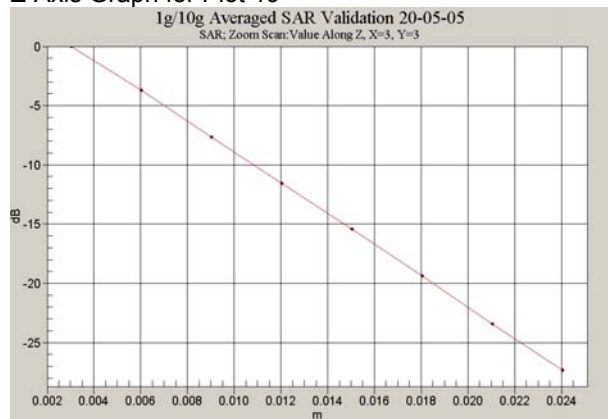
Z-Axis Graph for Plot 17



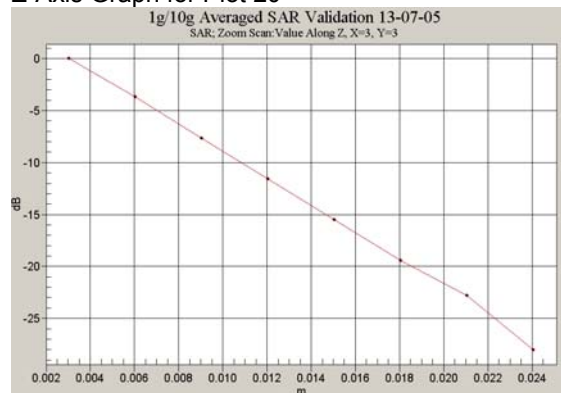
Z-Axis Graph for Plot 18



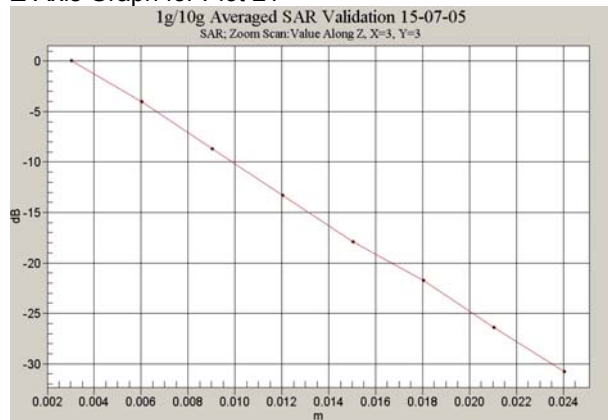
Z-Axis Graph for Plot 19



Z-Axis Graph for Plot 20



Z-Axis Graph for Plot 21



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 |