

Test Laboratory: Compliance Certification Services

File Name: [EUT Setup Conf 1_802.11b_Antenna A.da4](#)

DUT: Atheros Communications, Inc.; Type: AR5BCB-00043; Serial: N/A

Program: EUT Setup Conf 1_802.11b_Antenna A (Host device: DELL)

Ambient Temperature: 24.5 deg C; Liquid Temperature: 23.0 deg C

Communication System: Athreos; Frequency: 2412 MHz; Duty Cycle: 1:1

Medium: Muscle 2450 MHz ($\sigma = 1.9669$ mho/m, $\epsilon_r = 52.4521$, $\rho = 1000$ kg/m³)

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1577; ConvF(4.7, 4.7, 4.7); Calibrated: 2/7/2003
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn427; Calibrated: 2/4/2003
- Phantom: SAM 2; Type: SAM 2; Serial: 1050
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

2412/Area Scan (7x8x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 11.5 V/m

Power Drift = -0.1 dB

Maximum value of SAR = 0.258 mW/g

2412/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

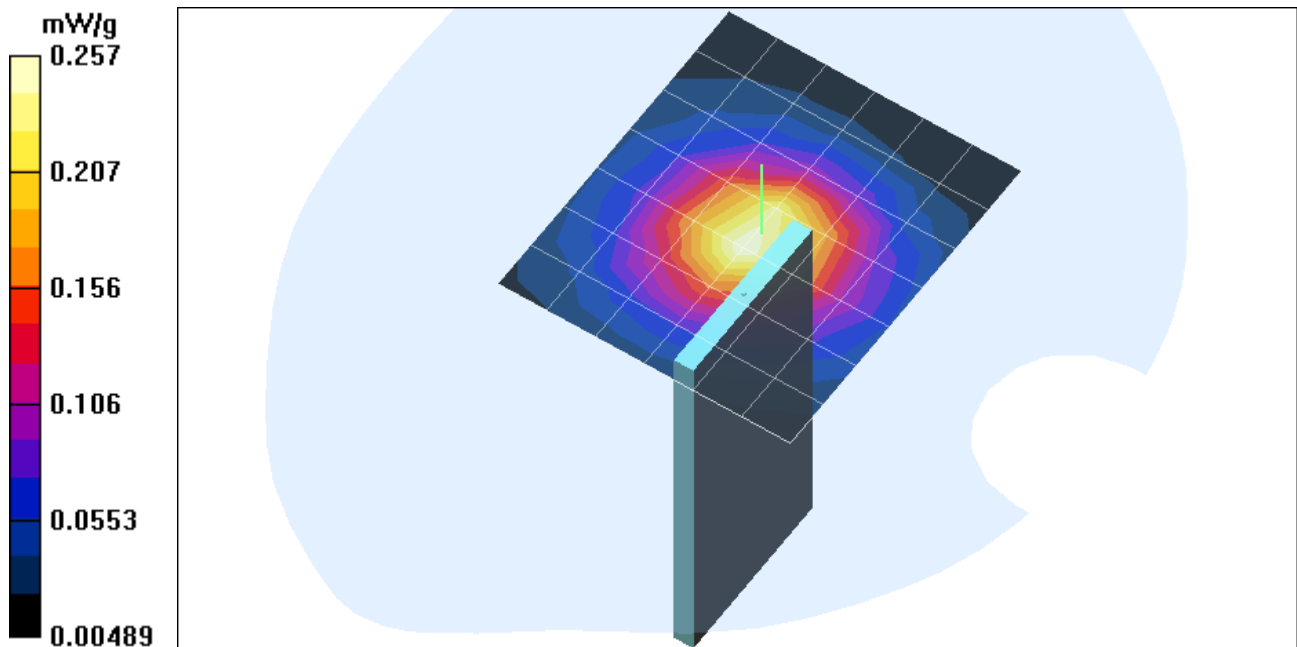
Peak SAR (extrapolated) = 0.515 W/kg

SAR(1 g) = 0.248 mW/g; SAR(10 g) = 0.135 mW/g

Reference Value = 11.5 V/m

Power Drift = -0.1 dB

Maximum value of SAR = 0.257 mW/g



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DUT: Atheros Communications, Inc.; Type: AR5BCB-00043; Serial: N/A

Program: EUT Setup Conf 1_802.11b_Antenna A (Host device: DELL)

Ambient Temperature: 24.5 deg C; Liquid Temperature: 23.0 deg C

Communication System: Athreos; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium: Muscle 2450 MHz ($\sigma = 1.9669$ mho/m, $\epsilon_r = 52.4521$, $\rho = 1000$ kg/m³)

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1577; ConvF(4.7, 4.7, 4.7); Calibrated: 2/7/2003
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn427; Calibrated: 2/4/2003
- Phantom: SAM 2; Type: SAM 2; Serial: 1050
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

2437/Area Scan (7x8x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 13.1 V/m

Power Drift = -0.14 dB

Maximum value of SAR = 0.294 mW/g

2437/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

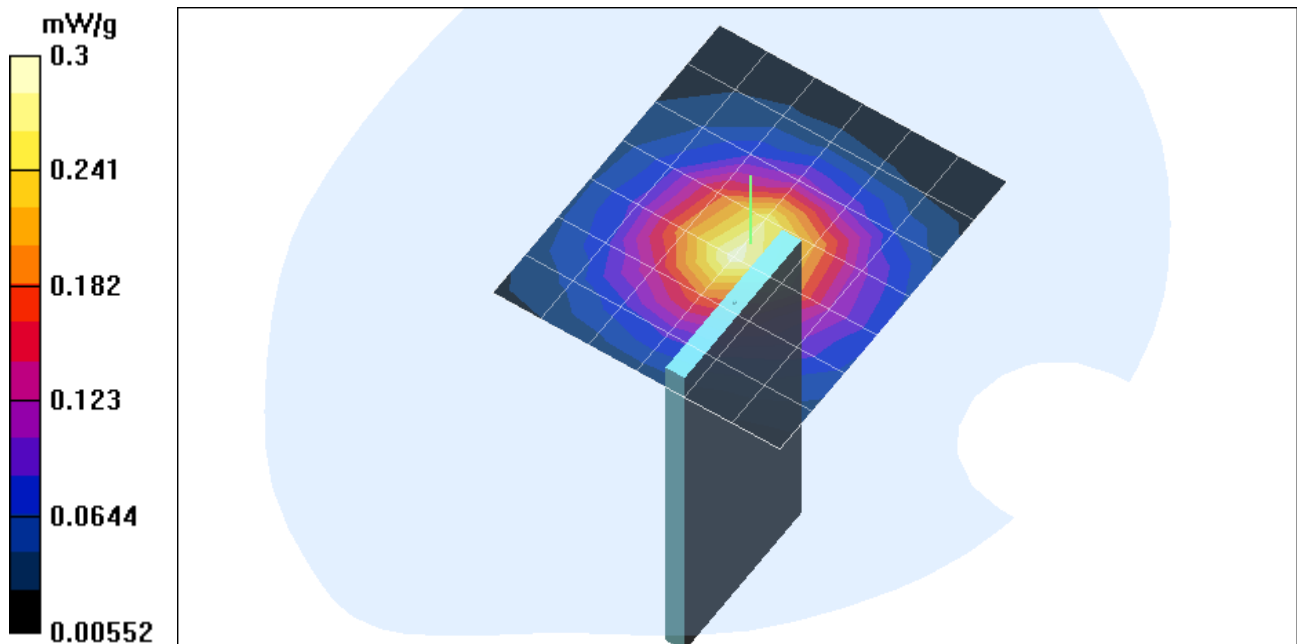
Peak SAR (extrapolated) = 0.602 W/kg

SAR(1 g) = 0.289 mW/g; SAR(10 g) = 0.159 mW/g

Reference Value = 13.1 V/m

Power Drift = -0.14 dB

Maximum value of SAR = 0.3 mW/g



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File Name: [EUT Setup Conf 1_802.11b_Antenna A.da4](#)

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Communication System: Athreos; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium: Muscle 2450 MHz ($\sigma = 1.9669$ mho/m, $\epsilon_r = 52.4521$, $\rho = 1000$ kg/m³)

Phantom section: Flat Section

DASY4 Configuration:

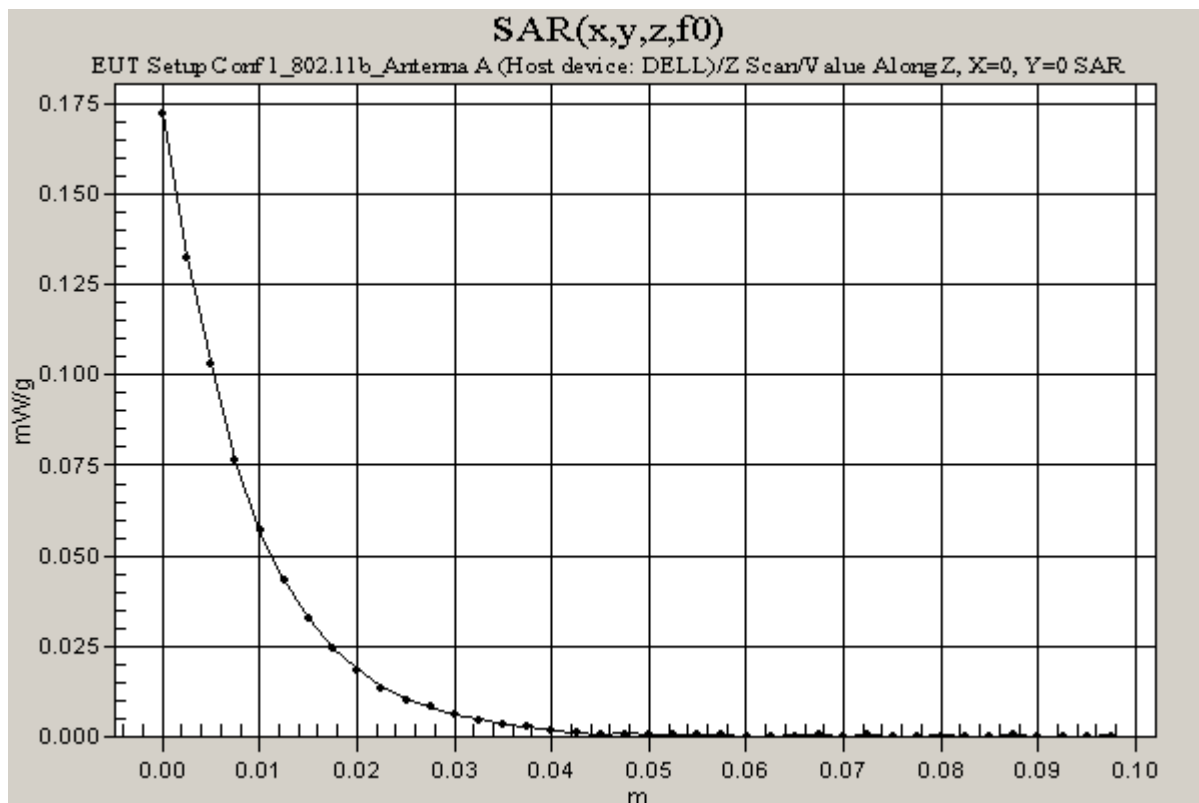
- Probe: ET3DV6 - SN1577; ConvF(4.7, 4.7, 4.7); Calibrated: 2/7/2003
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE3 Sn427; Calibrated: 2/4/2003
- Phantom: SAM 2; Type: SAM 2; Serial: 1050
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

2437/Z Scan (1x1x41): Measurement grid: dx=20mm, dy=20mm, dz=2.5mm

Reference Value = 13.1 V/m

Power Drift = -0.14 dB

Maximum value of SAR = 0.172 mW/g



Test Laboratory: Compliance Certification Services

File Name: [EUT Setup Conf 1_802.11g_Antenna A.da4](#)

DUT: Atheros Communications, Inc.; Type: AR5BCB-00043; Serial: N/A

Program: EUT Setup Conf 1_802.11g_Antenna A (Host device: DELL)

Ambient Temperature: 24.5 deg C; Liquid Temperature: 23.0 deg C

Communication System: Athreos; Frequency: 2412 MHz; Duty Cycle: 1:1

Medium: Muscle 2450 MHz ($\sigma = 1.9669$ mho/m, $\epsilon_r = 52.4521$, $\rho = 1000$ kg/m³)

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1577; ConvF(4.7, 4.7, 4.7); Calibrated: 2/7/2003
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn427; Calibrated: 2/4/2003
- Phantom: SAM 2; Type: SAM 2; Serial: 1050
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

2412/Area Scan (7x8x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 10.4 V/m

Power Drift = -0.1 dB

Maximum value of SAR = 0.194 mW/g

2412/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

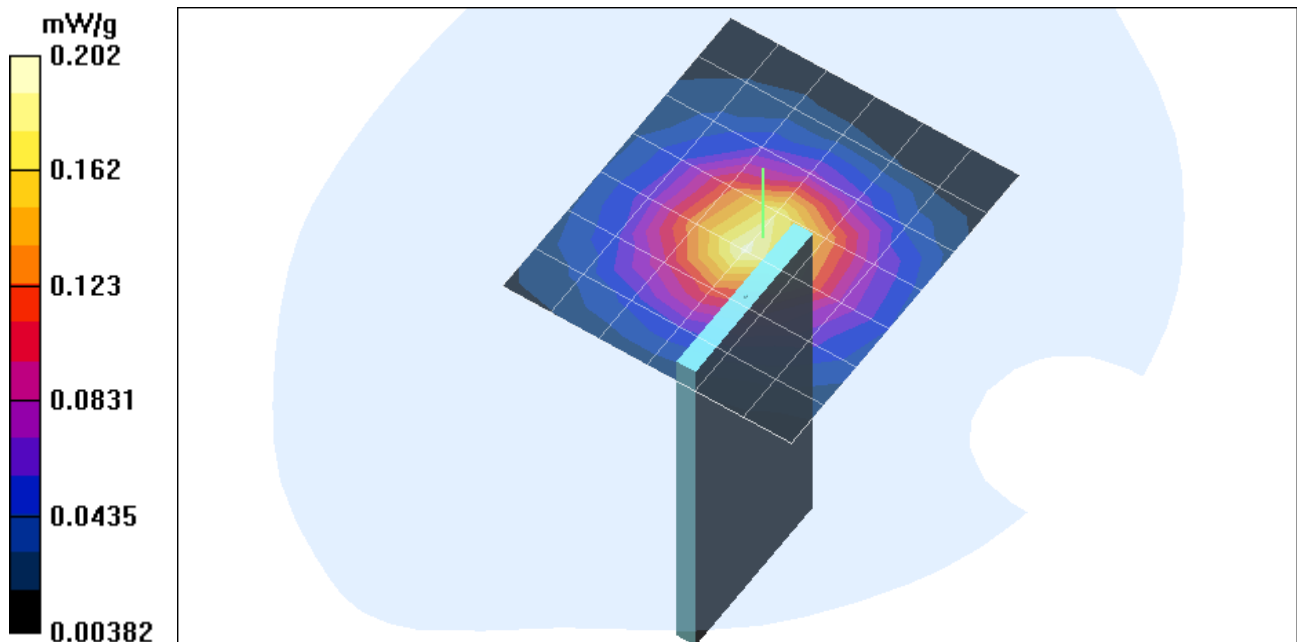
Peak SAR (extrapolated) = 0.401 W/kg

SAR(1 g) = 0.195 mW/g; SAR(10 g) = 0.108 mW/g

Reference Value = 10.4 V/m

Power Drift = -0.1 dB

Maximum value of SAR = 0.202 mW/g



Test Laboratory: Compliance Certification Services

File Name: [EUT Setup Conf 1_802.11g_Antenna A.da4](#)

DUT: Atheros Communications, Inc.; Type: AR5BCB-00043; Serial: N/A

Program: EUT Setup Conf 1_802.11g_Antenna A (Host device: DELL)

Ambient Temperature: 24.5 deg C; Liquid Temperature: 23.0 deg C

Communication System: Athreos; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium: Muscle 2450 MHz ($\sigma = 1.9669$ mho/m, $\epsilon_r = 52.4521$, $\rho = 1000$ kg/m³)

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1577; ConvF(4.7, 4.7, 4.7); Calibrated: 2/7/2003
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn427; Calibrated: 2/4/2003
- Phantom: SAM 2; Type: SAM 2; Serial: 1050
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

2437/Area Scan (7x8x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 12 V/m

Power Drift = -0.01 dB

Maximum value of SAR = 0.261 mW/g

2437/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

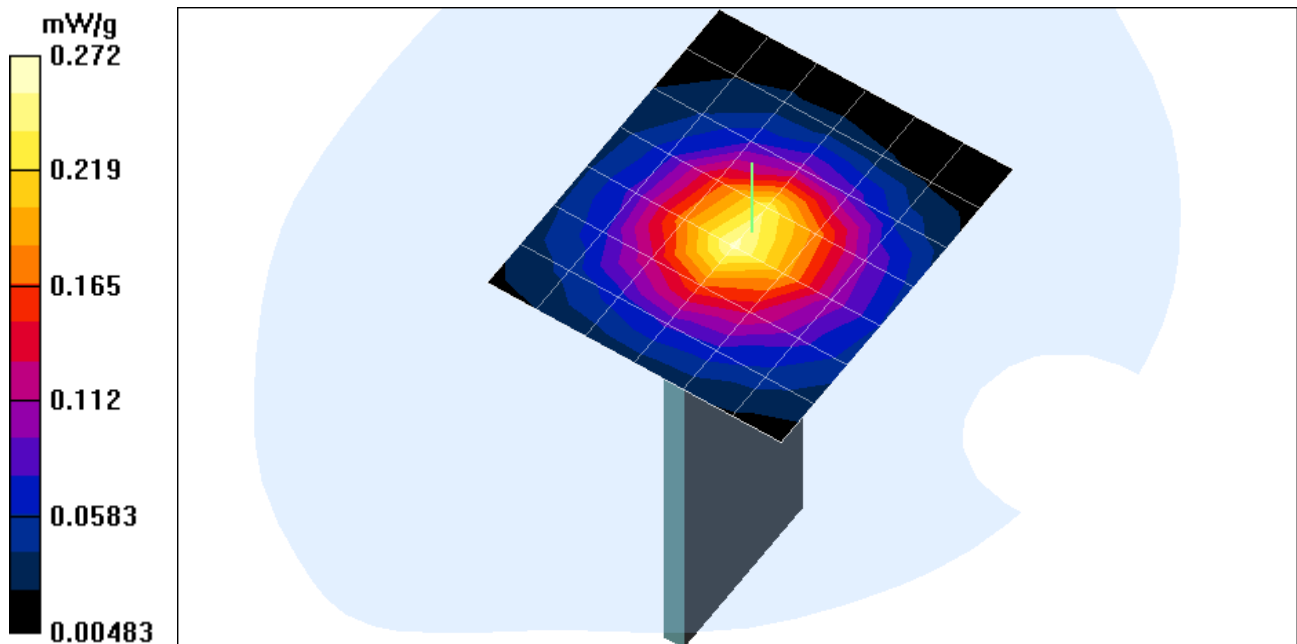
Peak SAR (extrapolated) = 0.549 W/kg

SAR(1 g) = 0.264 mW/g; SAR(10 g) = 0.145 mW/g

Reference Value = 12 V/m

Power Drift = -0.01 dB

Maximum value of SAR = 0.272 mW/g



Test Laboratory: Compliance Certification Services

File Name: [EUT Setup Conf 2_802.11b_Antenna A.da4](#)

DUT: Atheros Communications, Inc.; Type: AR5BCB-00043; Serial: N/A

Program: EUT Setup Conf 2_802.11b_Antenna A (Host device: DELL)

Ambient Temperature: 24.5 deg C; Liquid Temperature: 23.0 deg C

Communication System: Athreos; Frequency: 2412 MHz; Duty Cycle: 1:1

Medium: Muscle 2450 MHz ($\sigma = 1.9669$ mho/m, $\epsilon_r = 52.4521$, $\rho = 1000$ kg/m³)

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1577; ConvF(4.7, 4.7, 4.7); Calibrated: 2/7/2003
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn427; Calibrated: 2/4/2003
- Phantom: SAM 2; Type: SAM 2; Serial: 1050
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

L-CH/Area Scan (11x8x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 12.2 V/m

Power Drift = 0.13 dB

Maximum value of SAR = 0.874 mW/g

L-CH/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

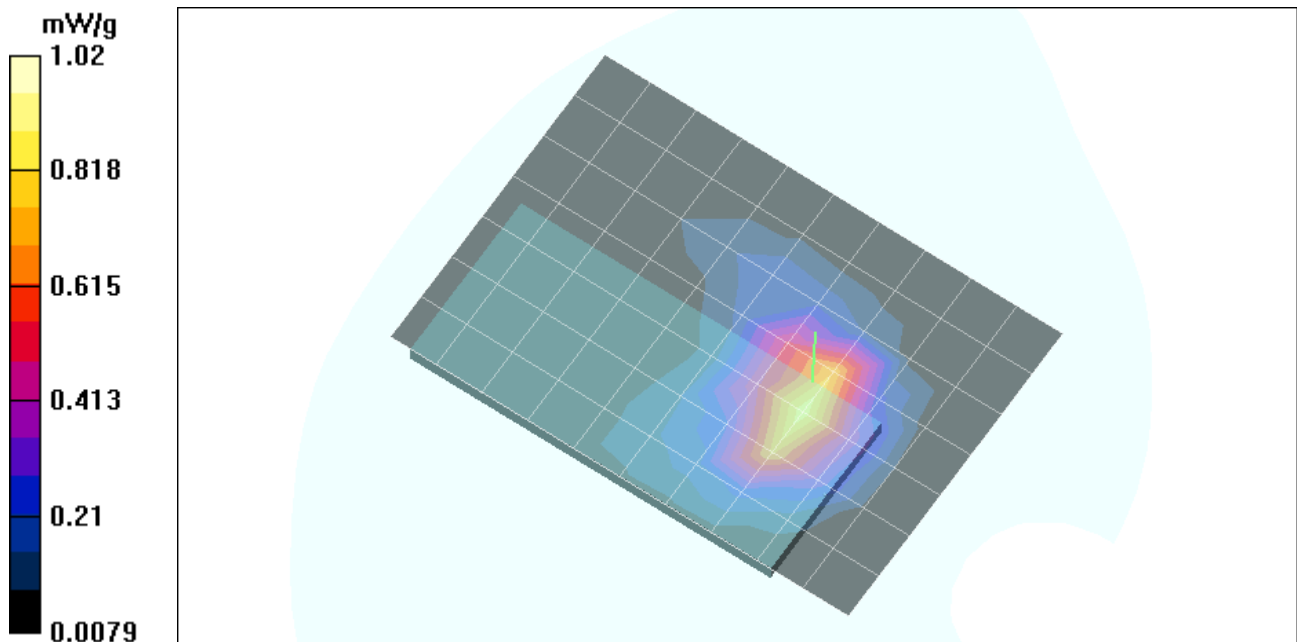
Peak SAR (extrapolated) = 2.18 W/kg

SAR(1 g) = 0.96 mW/g; SAR(10 g) = 0.472 mW/g

Reference Value = 12.2 V/m

Power Drift = 0.13 dB

Maximum value of SAR = 1.02 mW/g



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File Name: [EUT Setup Conf 2_802.11b_Antenna A.da4](#)

DUT: Atheros Communications, Inc.; Type: AR5BCB-00043; Serial: N/A

Program: EUT Setup Conf 2_802.11b_Antenna A (Host device: DELL)

Ambient Temperature: 24.5 deg C; Liquid Temperature: 23.0 deg C

Communication System: Athreos; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium: Muscle 2450 MHz ($\sigma = 1.9669$ mho/m, $\epsilon_r = 52.4521$, $\rho = 1000$ kg/m³)

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1577; ConvF(4.7, 4.7, 4.7); Calibrated: 2/7/2003
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn427; Calibrated: 2/4/2003
- Phantom: SAM 2; Type: SAM 2; Serial: 1050
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

M-CH/Area Scan (11x9x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 16.2 V/m

Power Drift = -0.12 dB

Maximum value of SAR = 0.934 mW/g

M-CH/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

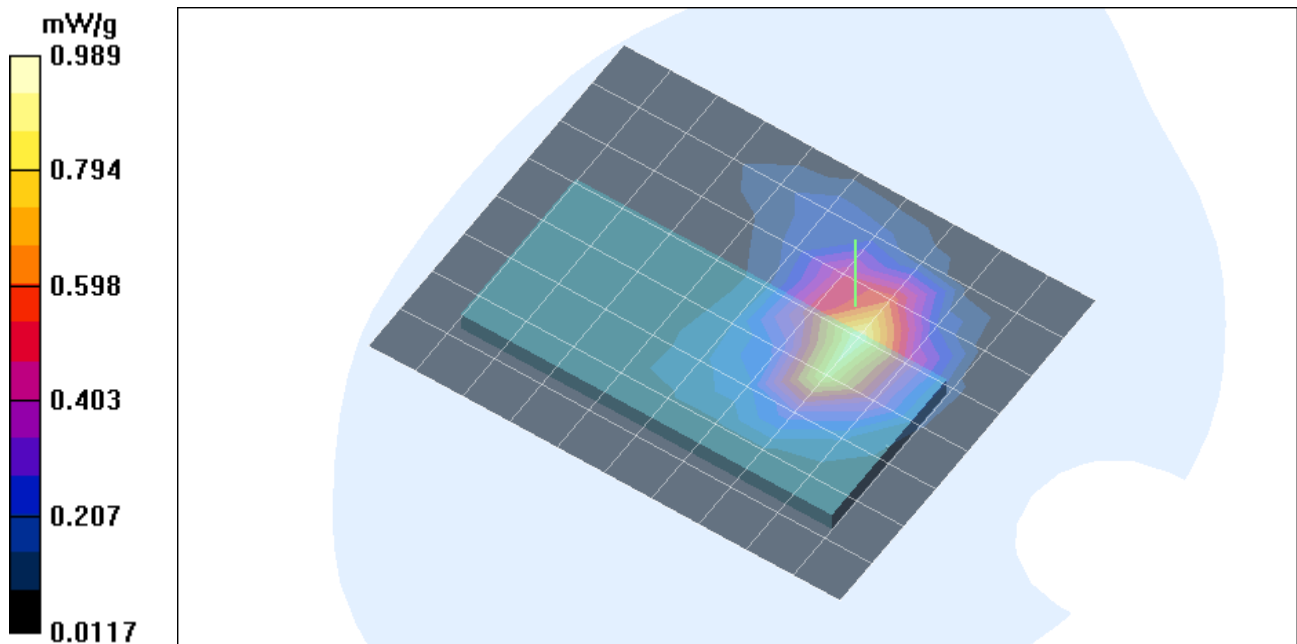
Peak SAR (extrapolated) = 2.18 W/kg

SAR(1 g) = 0.972 mW/g; SAR(10 g) = 0.489 mW/g

Reference Value = 16.2 V/m

Power Drift = -0.12 dB

Maximum value of SAR = 0.989 mW/g



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File Name: [EUT Setup Conf 2_802.11b_Antenna A.da4](#)

DUT: Atheros Communications, Inc.; Type: AR5BCB-00043; Serial: N/A

Program: EUT Setup Conf 2_802.11b_Antenna A (Host device: DELL)

Communication System: Athreos; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium: Muscle 2450 MHz ($\sigma = 1.9669$ mho/m, $\epsilon_r = 52.4521$, $\rho = 1000$ kg/m³)

Phantom section: Flat Section

DASY4 Configuration:

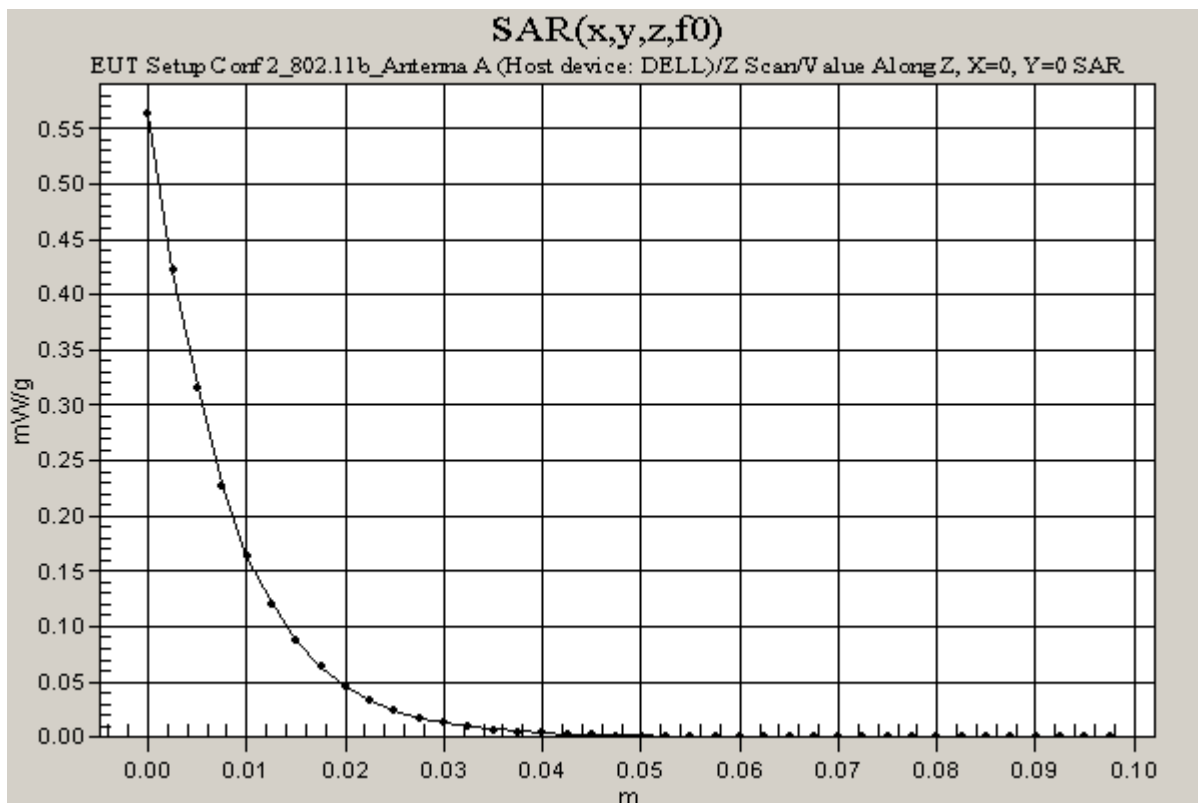
- Probe: ET3DV6 - SN1577; ConvF(4.7, 4.7, 4.7); Calibrated: 2/7/2003
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE3 Sn427; Calibrated: 2/4/2003
- Phantom: SAM 2; Type: SAM 2; Serial: 1050
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

M-CH/Z Scan (1x1x41): Measurement grid: dx=20mm, dy=20mm, dz=2.5mm

Reference Value = 16.2 V/m

Power Drift = -0.12 dB

Maximum value of SAR = 0.564 mW/g



Test Laboratory: Compliance Certification Services

File Name: [EUT Setup Conf 2_802.11g_Antenna A.da4](#)

DUT: Atheros Communications, Inc.; Type: AR5BCB-00043; Serial: N/A

Program: EUT Setup Conf 2_802.11g_Antenna A (Host device: DELL)

Ambient Temperature: 24.5 deg C; Liquid Temperature: 23.0 deg C

Communication System: Athreos; Frequency: 2412 MHz; Duty Cycle: 1:1

Medium: Muscle 2450 MHz ($\sigma = 1.9669$ mho/m, $\epsilon_r = 52.4521$, $\rho = 1000$ kg/m³)

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1577; ConvF(4.7, 4.7, 4.7); Calibrated: 2/7/2003
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn427; Calibrated: 2/4/2003
- Phantom: SAM 2; Type: SAM 2; Serial: 1050
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

L-CH/Area Scan (10x8x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 9.88 V/m

Power Drift = -0.1 dB

Maximum value of SAR = 0.769 mW/g

L-CH/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

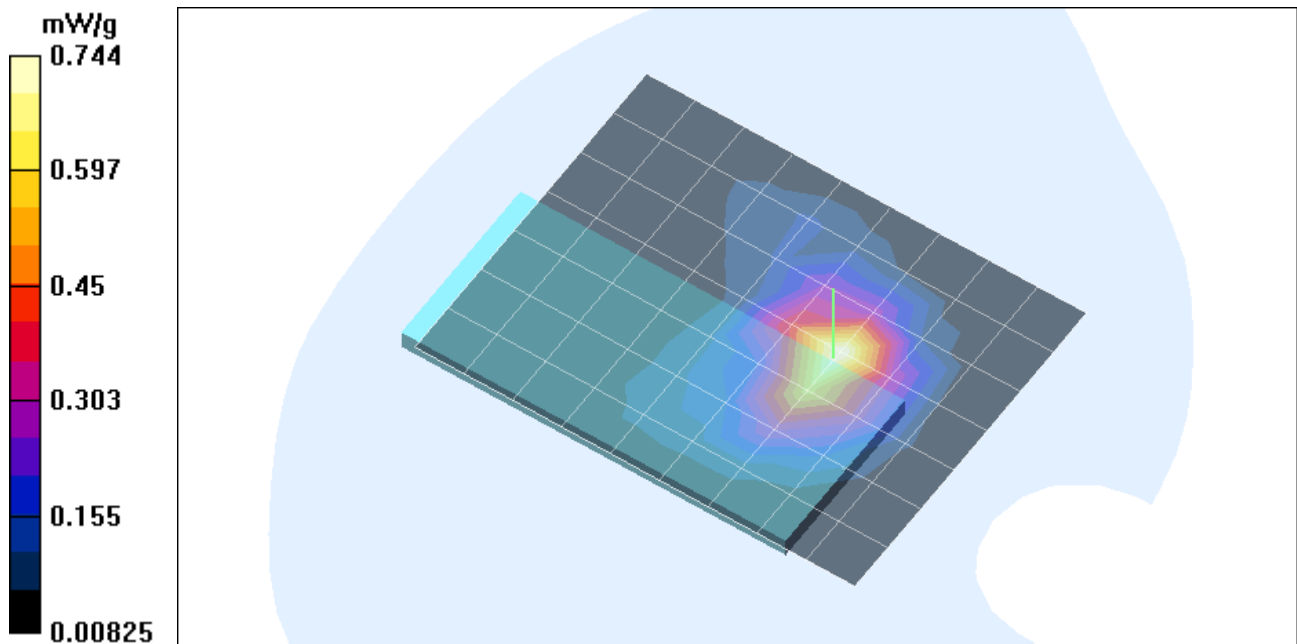
Peak SAR (extrapolated) = 1.66 W/kg

SAR(1 g) = 0.729 mW/g; SAR(10 g) = 0.352 mW/g

Reference Value = 9.88 V/m

Power Drift = -0.1 dB

Maximum value of SAR = 0.744 mW/g



Test Laboratory: Compliance Certification Services

File Name: [EUT Setup Conf 2_802.11g_Antenna A.da4](#)

DUT: Atheros Communications, Inc.; Type: AR5BCB-00043; Serial: N/A

Program: EUT Setup Conf 2_802.11g_Antenna A (Host device: DELL)

Ambient Temperature: 24.5 deg C; Liquid Temperature: 23.0 deg C

Communication System: Athreos; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium: Muscle 2450 MHz ($\sigma = 1.9669$ mho/m, $\epsilon_r = 52.4521$, $\rho = 1000$ kg/m³)

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6 - SN1577; ConvF(4.7, 4.7, 4.7); Calibrated: 2/7/2003
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn427; Calibrated: 2/4/2003
- Phantom: SAM 2; Type: SAM 2; Serial: 1050
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

M-CH/Area Scan (10x8x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 13.1 V/m

Power Drift = -0.1 dB

Maximum value of SAR = 0.817 mW/g

M-CH/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Peak SAR (extrapolated) = 2.15 W/kg

SAR(1 g) = 0.935 mW/g; SAR(10 g) = 0.455 mW/g

Reference Value = 13.1 V/m

Power Drift = -0.1 dB

Maximum value of SAR = 0.998 mW/g

