

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: Compaq)
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_Rate: 2/Area Scan (7x8x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 11.7 V/m

Power Drift = -0.07 dB

Maximum value of SAR = 0.248 mW/g

2412_Rate: 2/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

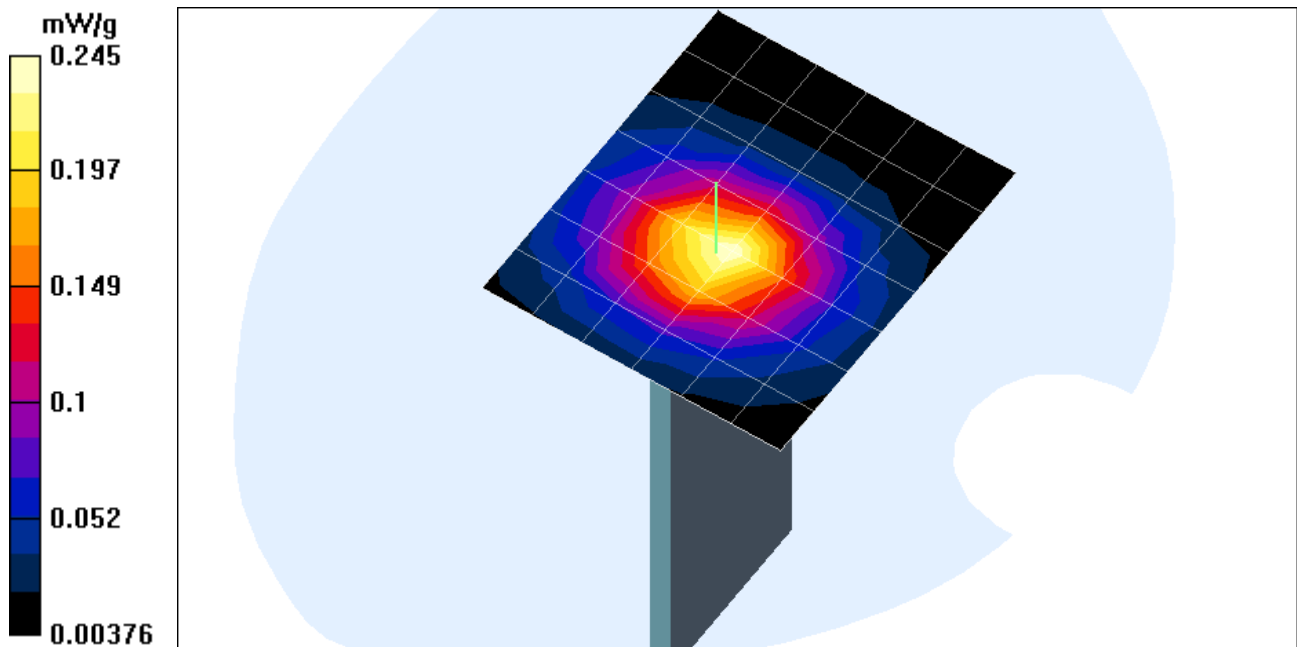
Peak SAR (extrapolated) = 0.476 W/kg

SAR(1 g) = 0.237 mW/g; SAR(10 g) = 0.131 mW/g

Reference Value = 11.7 V/m

Power Drift = -0.07 dB

Maximum value of SAR = 0.245 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: Compaq)
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_Rate: 2/Area Scan (7x8x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 13.2 V/m

Power Drift = 0.0001 dB

Maximum value of SAR = 0.31 mW/g

2437_Rate: 2/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

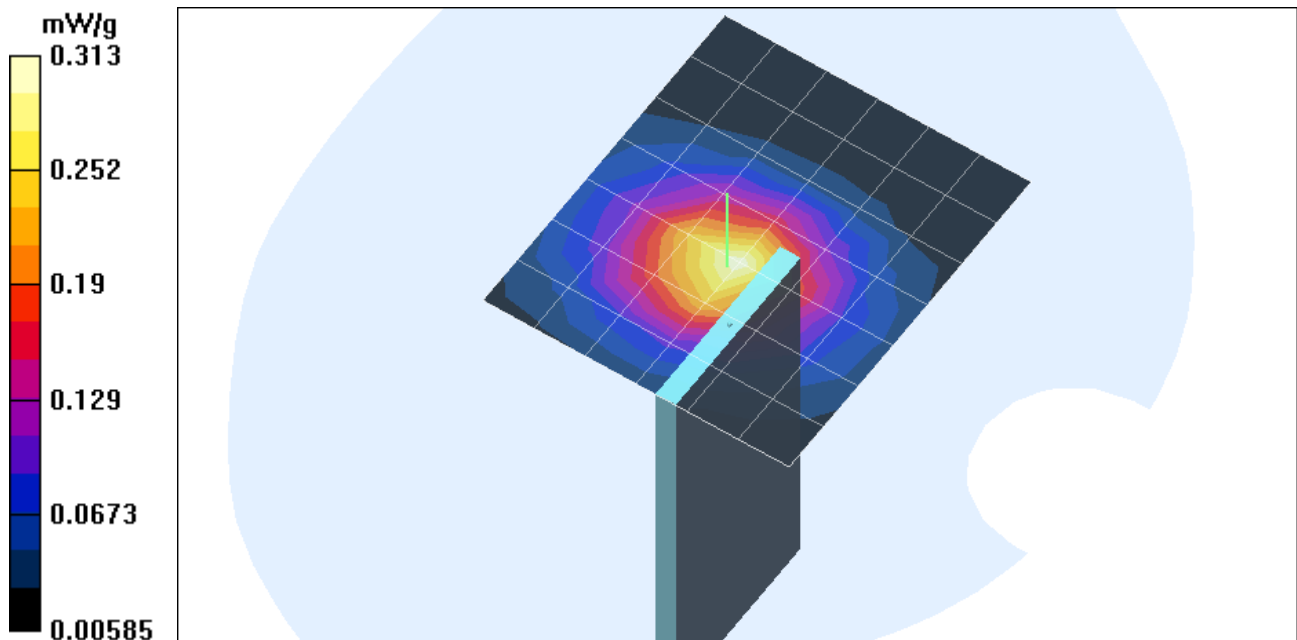
Peak SAR (extrapolated) = 0.617 W/kg

SAR(1 g) = 0.302 mW/g; SAR(10 g) = 0.165 mW/g

Reference Value = 13.2 V/m

Power Drift = 0.0001 dB

Maximum value of SAR = 0.313 mW/g



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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:

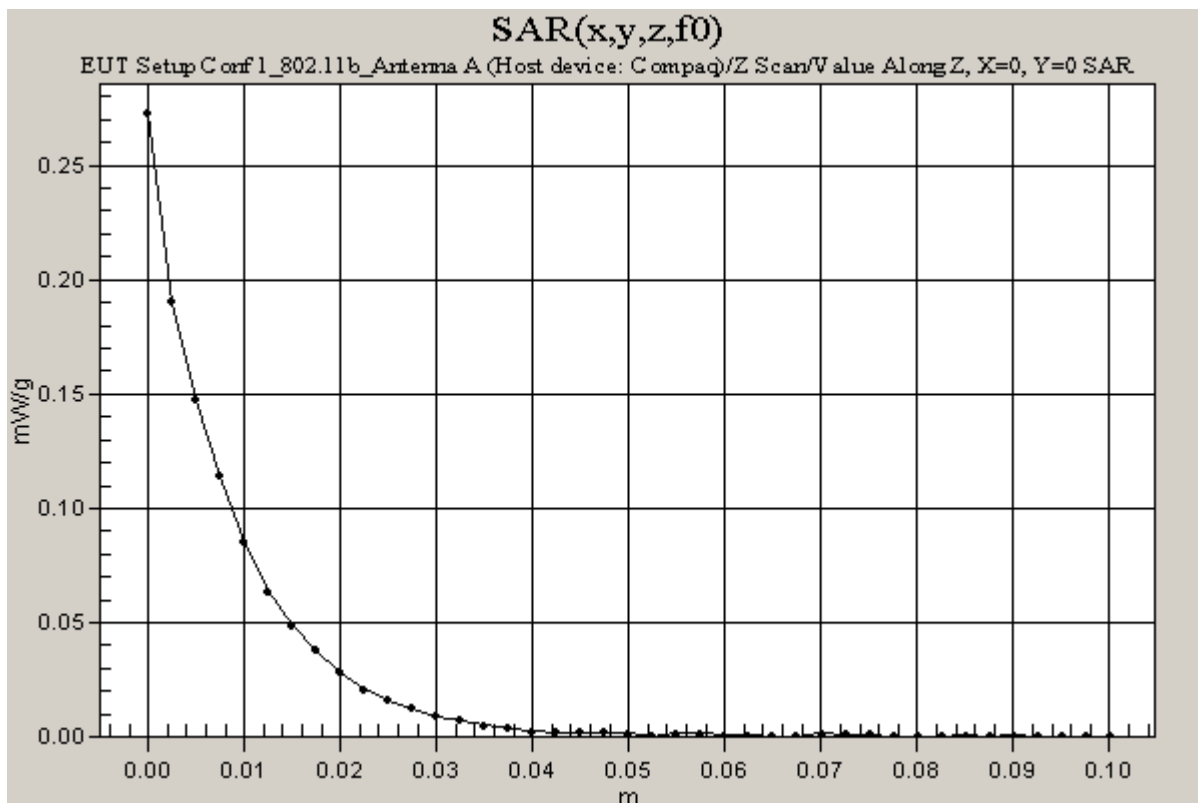
- Probe: ET3DV6 - SN1577; ConvF(4.7, 4.7, 4.7); Calibrated: 2/7/2003
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE3 Sn427; Calibrated: 2/4/2003
- Phantom: SAM 2; Type: SAM 2; Serial: 1050
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

2437_Rate: 2/Z Scan (1x1x41): Measurement grid: dx=20mm, dy=20mm, dz=2.5mm

Reference Value = 13.2 V/m

Power Drift = -0.03 dB

Maximum value of SAR = 0.273 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: Compaq)
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_Rate: 2/Area Scan (7x8x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 10.3 V/m

Power Drift = 0.1 dB

Maximum value of SAR = 0.193 mW/g

2412_Rate: 2/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

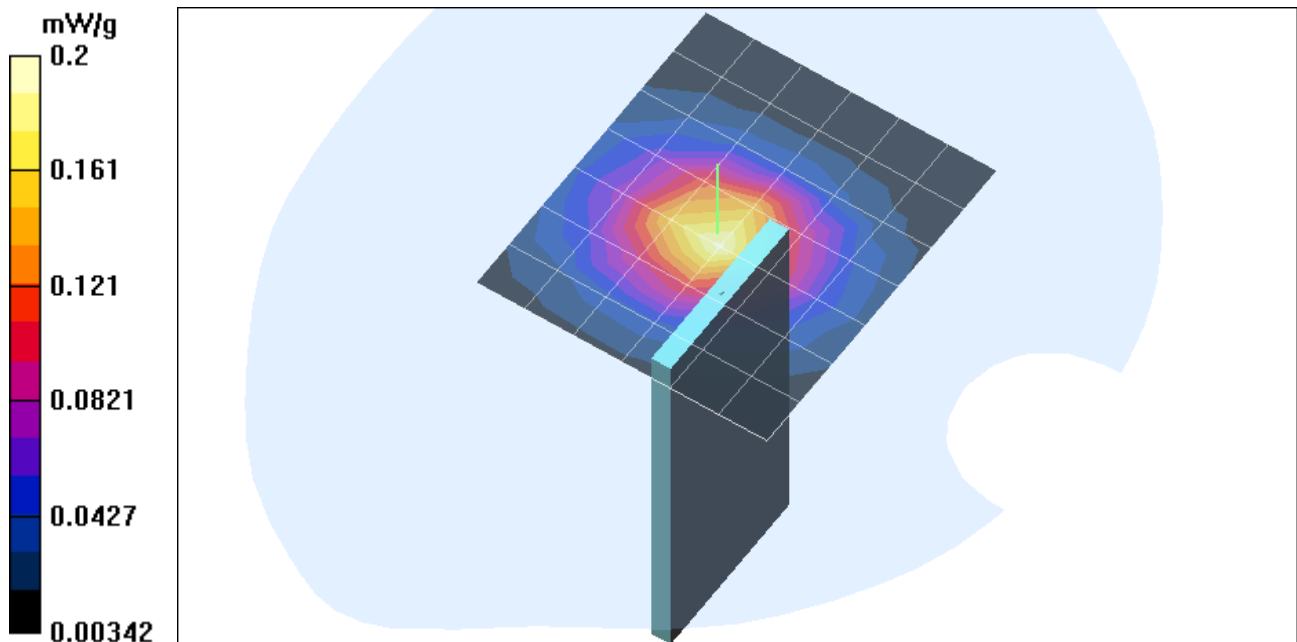
Peak SAR (extrapolated) = 0.396 W/kg

SAR(1 g) = 0.194 mW/g; SAR(10 g) = 0.106 mW/g

Reference Value = 10.3 V/m

Power Drift = 0.1 dB

Maximum value of SAR = 0.2 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: Compaq)
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_Rate: 2/Area Scan (7x8x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 12 V/m

Power Drift = -0.05 dB

Maximum value of SAR = 0.236 mW/g

2437_Rate: 2/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

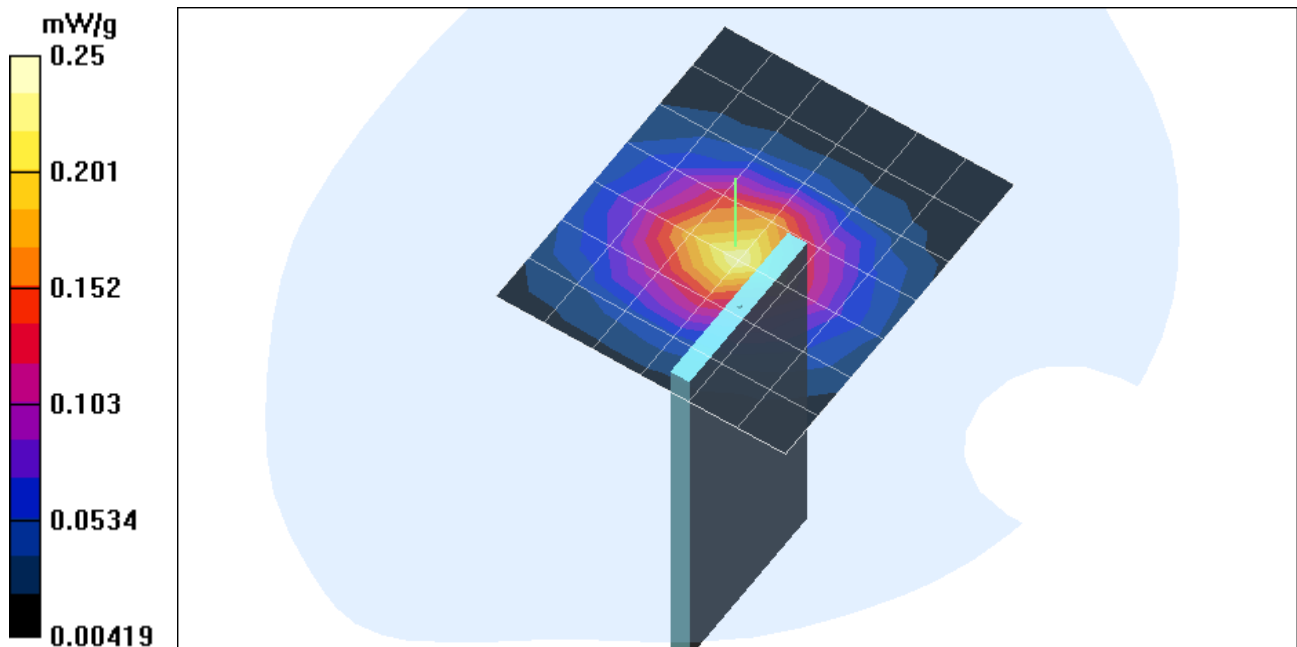
Peak SAR (extrapolated) = 0.508 W/kg

SAR(1 g) = 0.246 mW/g; SAR(10 g) = 0.135 mW/g

Reference Value = 12 V/m

Power Drift = -0.05 dB

Maximum value of SAR = 0.25 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: Compaq)
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 = 12.3 V/m

Power Drift = -0.14 dB

Maximum value of SAR = 0.854 mW/g

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

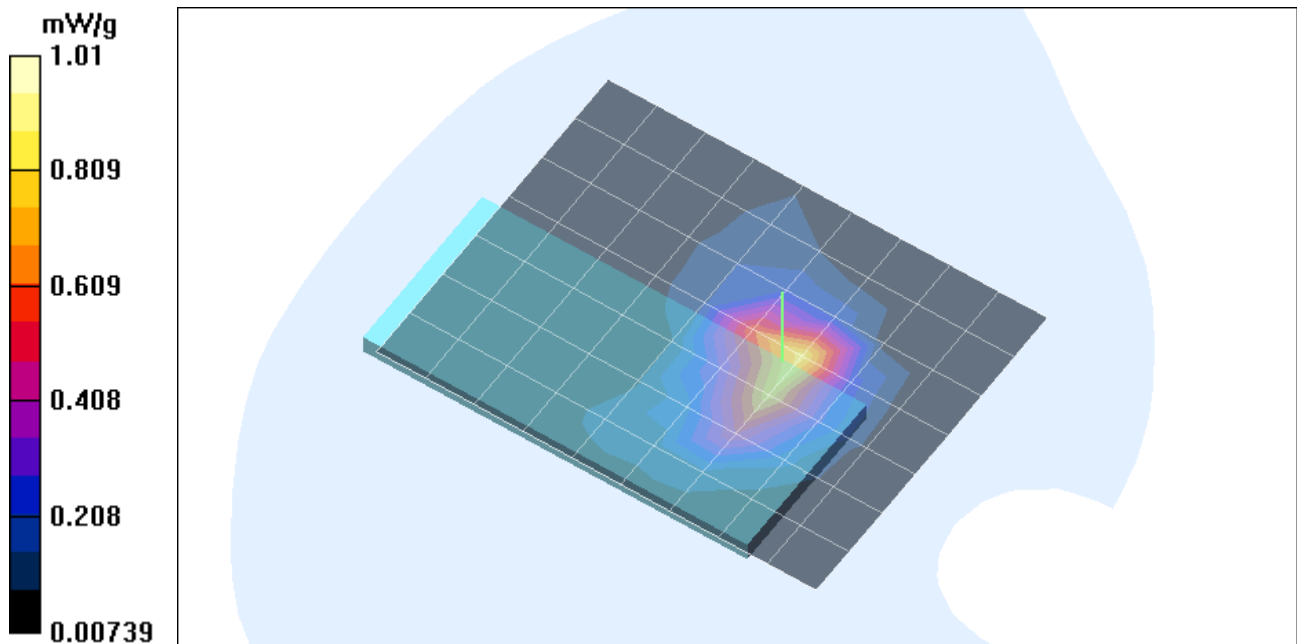
Peak SAR (extrapolated) = 2.13 W/kg

SAR(1 g) = 0.925 mW/g; SAR(10 g) = 0.436 mW/g

Reference Value = 12.3 V/m

Power Drift = -0.14 dB

Maximum value of SAR = 1.01 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: Compaq)
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 = 12.4 V/m

Power Drift = -0.09 dB

Maximum value of SAR = 1.03 mW/g

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

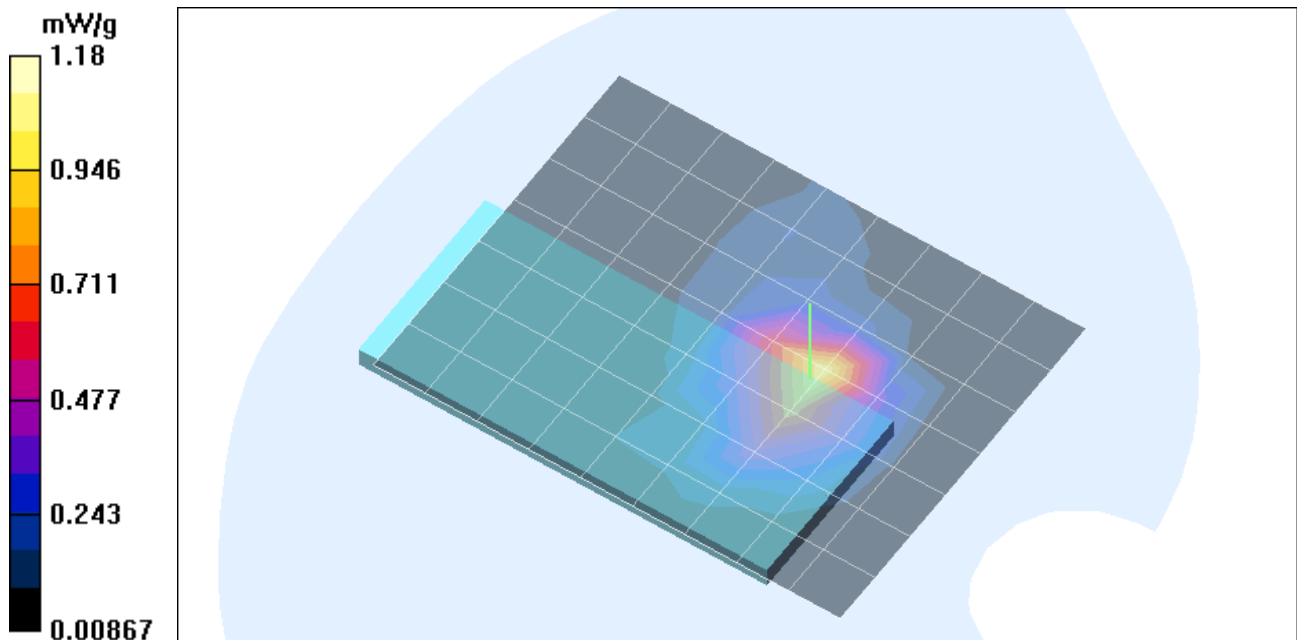
Peak SAR (extrapolated) = 2.48 W/kg

SAR(1 g) = 1.1 mW/g; SAR(10 g) = 0.528 mW/g

Reference Value = 12.4 V/m

Power Drift = -0.09 dB

Maximum value of SAR = 1.18 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: Compaq)

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:

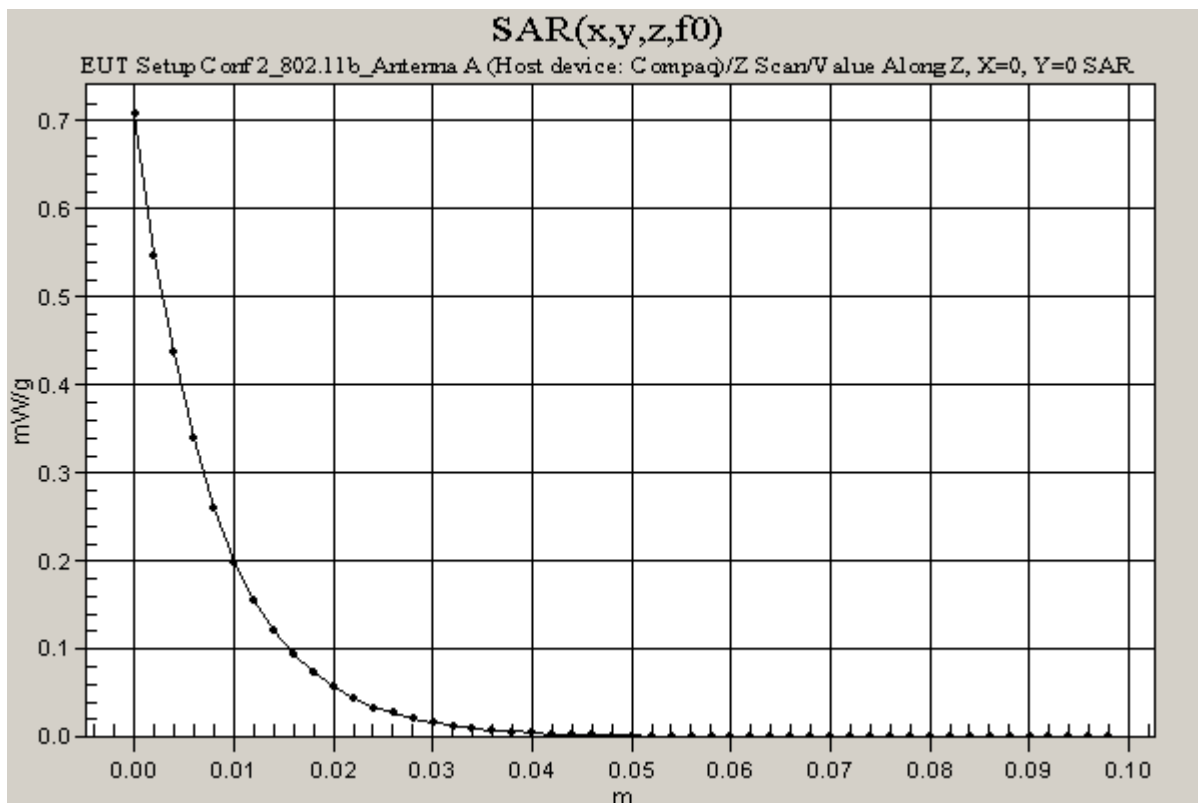
- Probe: ET3DV6 - SN1577; ConvF(4.7, 4.7, 4.7); Calibrated: 2/7/2003
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE3 Sn427; Calibrated: 2/4/2003
- Phantom: SAM 2; Type: SAM 2; Serial: 1050
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

M-CH/Z Scan (1x1x51): Measurement grid: dx=20mm, dy=20mm, dz=2mm

Reference Value = 12.4 V/m

Power Drift = -0.13 dB

Maximum value of SAR = 0.709 mW/g



Test Laboratory: Compliance Certification Services
 File Name: [EUT Setup Conf 2_802.11g_AntennaA.da4](#)

DUT: Atheros Communications, Inc.; Type: AR5BCB-00043; Serial: N/A
Program: EUT Setup Conf 2_802.11g_Antenna A (Host device: Compaq)
Ambient Temperature: 24.5 deg C; Liquid Temperature: 23.0 deg C

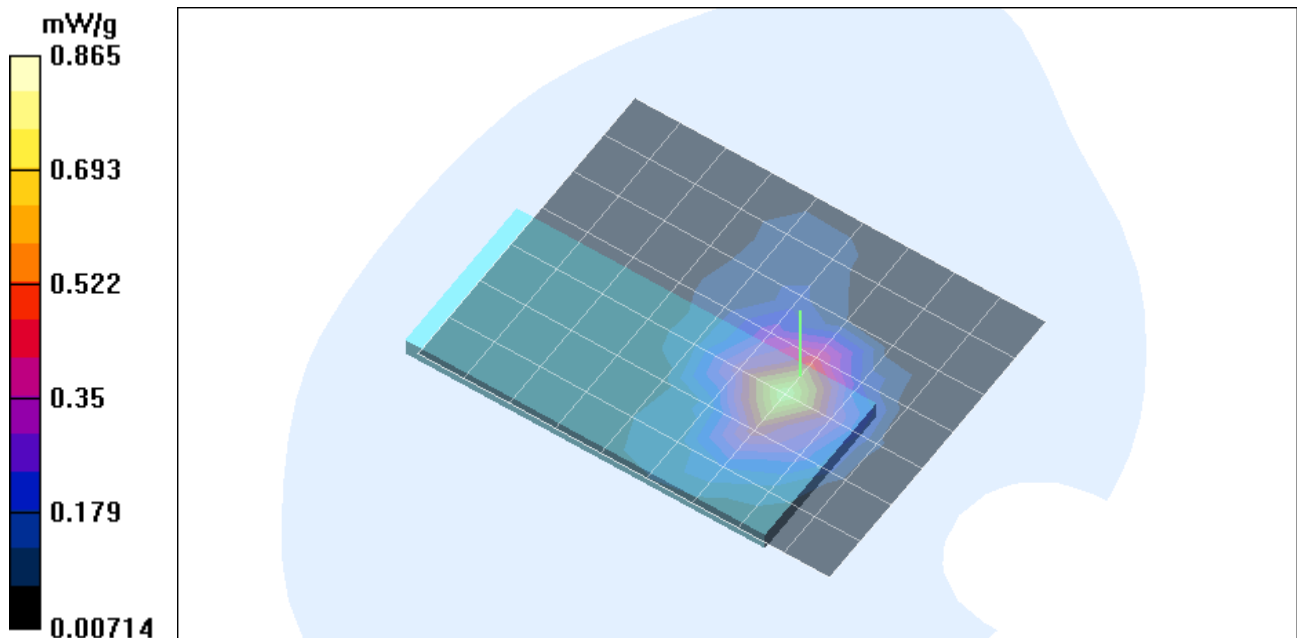
Communication System: Athreos; Frequency: 2412 MHz; Duty Cycle: 1:1
 Medium: Muscle 2450 MHz ($\sigma = 1.9669$ mho/m, $\epsilon_r = 52.4521$, $\rho = 1000$ kg/m³)
 Phantom section: Flat Section

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 = 12.2 V/m
 Power Drift = 0.1 dB
 Maximum value of SAR = 0.765 mW/g

L-CH/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm
 Peak SAR (extrapolated) = 1.94 W/kg
 SAR(1 g) = 0.848 mW/g; SAR(10 g) = 0.394 mW/g
 Reference Value = 12.2 V/m
 Power Drift = 0.1 dB
 Maximum value of SAR = 0.865 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: Compaq)
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 = 13.3 V/m

Power Drift = -0.007 dB

Maximum value of SAR = 0.833 mW/g

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

Peak SAR (extrapolated) = 2.17 W/kg

SAR(1 g) = 0.957 mW/g; SAR(10 g) = 0.449 mW/g

Reference Value = 13.3 V/m

Power Drift = -0.007 dB

Maximum value of SAR = 1.05 mW/g

