

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: IBM)

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 ($\sigma = 1.9643$ mho/m, $\epsilon_r = 52.641$, $\rho = 1000$ 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 = 10.9 V/m

Power Drift = 0.06 dB

Maximum value of SAR = 0.238 mW/g

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

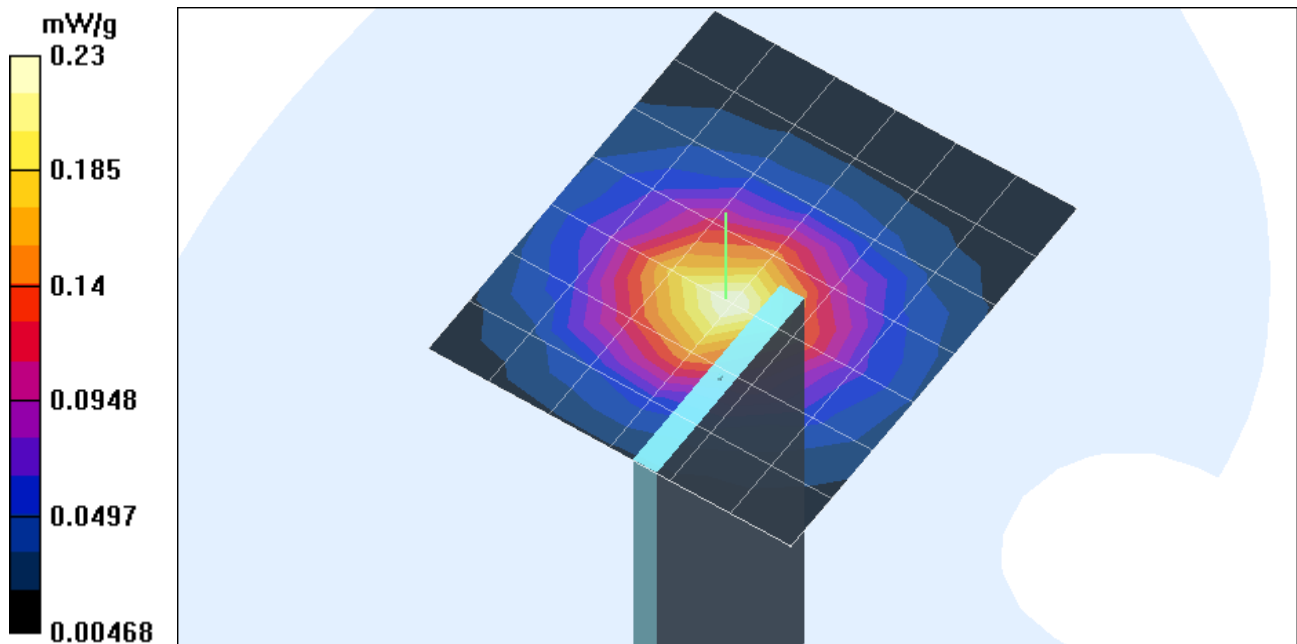
Peak SAR (extrapolated) = 0.444 W/kg

SAR(1 g) = 0.221 mW/g; SAR(10 g) = 0.122 mW/g

Reference Value = 10.9 V/m

Power Drift = 0.06 dB

Maximum value of SAR = 0.23 mW/g



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: IBM)

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 ($\sigma = 1.9658$ mho/m, $\epsilon_r = 52.621$, $\rho = 1000$ 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 = 11.7 V/m

Power Drift = 0.13 dB

Maximum value of SAR = 0.28 mW/g

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

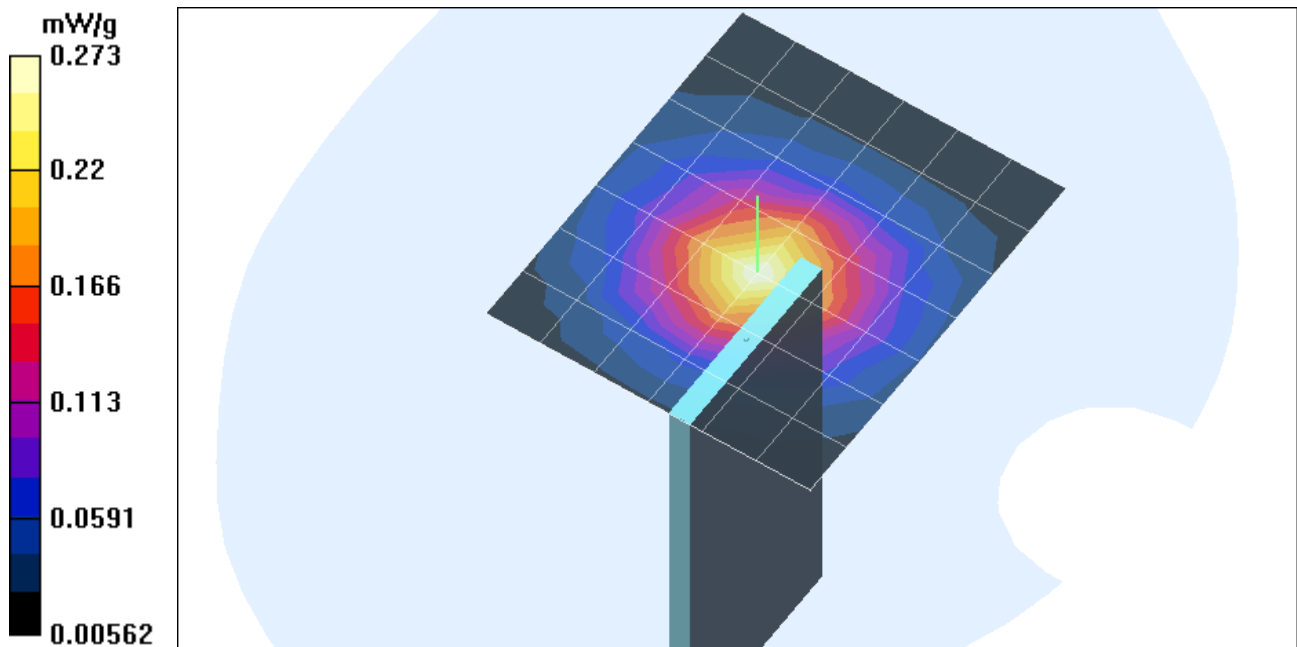
Peak SAR (extrapolated) = 0.534 W/kg

SAR(1 g) = 0.263 mW/g; SAR(10 g) = 0.145 mW/g

Reference Value = 11.7 V/m

Power Drift = 0.13 dB

Maximum value of SAR = 0.273 mW/g



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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: IBM)

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

Medium: Muscle 2450 MHz ($\sigma = 1.9658$ mho/m, $\epsilon_r = 52.621$, $\rho = 1000$ kg/m³)

Phantom section: Flat Section

DASY4 Configuration:

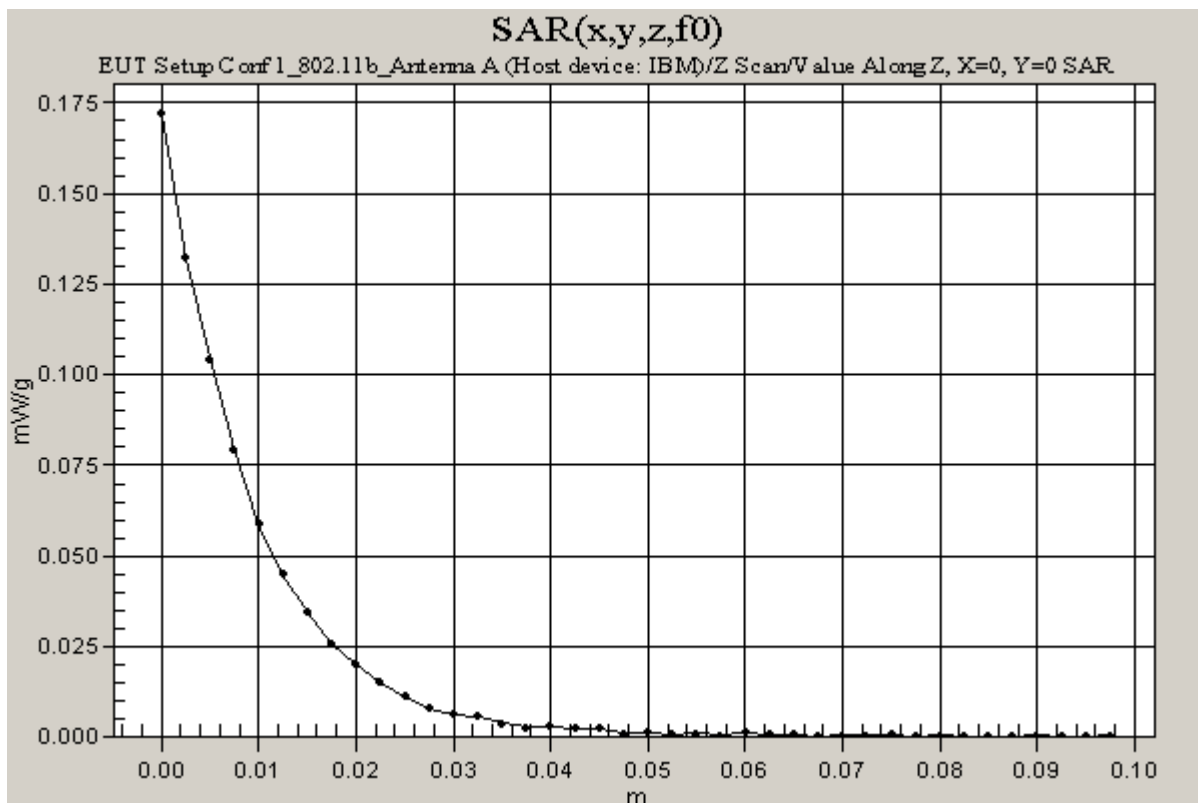
- Probe: ET3DV6 - SN1577; ConvF(4.7, 4.7, 4.7); Calibrated: 2/7/2003
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE3 Sn427; Calibrated: 2/4/2003
- Phantom: SAM 2; Type: SAM 2; Serial: 1050
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

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

Reference Value = 11.7 V/m

Power Drift = 0.14 dB

Maximum value of SAR = 0.172 mW/g



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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: IBM)

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

Communication System: Athreos; Frequency: 2462 MHz; Duty Cycle: 1:1

Medium: Muscle 2450 MHz ($\sigma = 1.9643$ mho/m, $\epsilon_r = 52.641$, $\rho = 1000$ 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

2462_Rate: 2/Area Scan (7x8x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 10.7 V/m

Power Drift = 0.12 dB

Maximum value of SAR = 0.223 mW/g

2462_Rate: 2/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

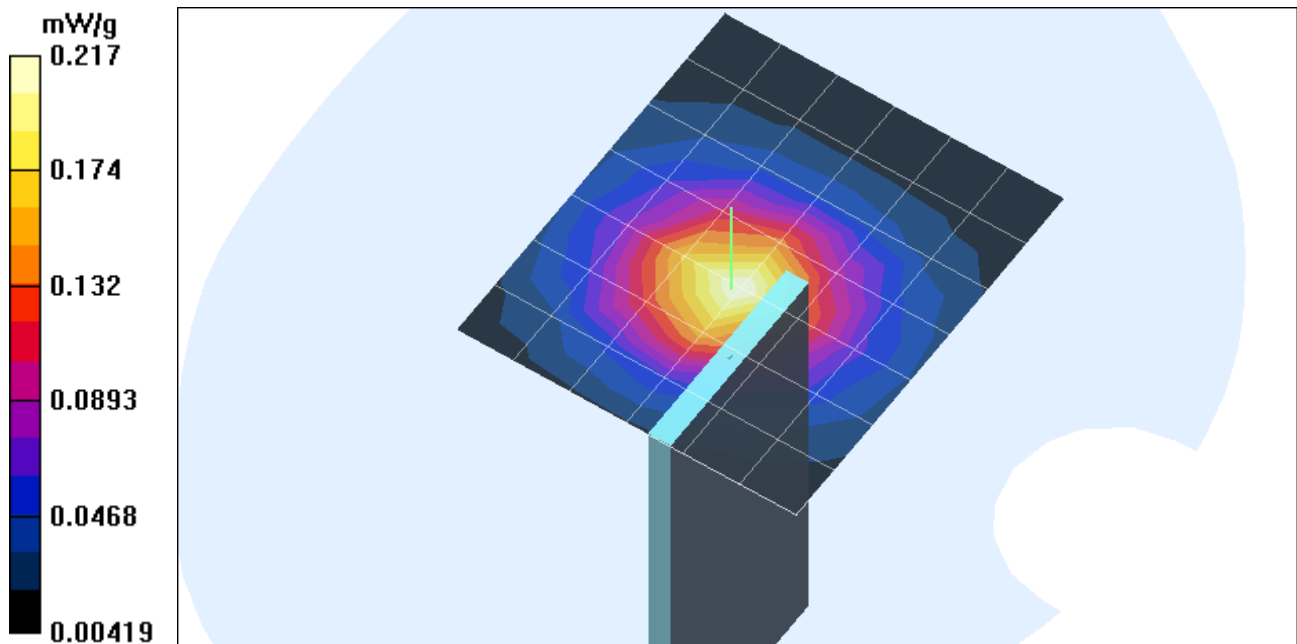
Peak SAR (extrapolated) = 0.427 W/kg

SAR(1 g) = 0.209 mW/g; SAR(10 g) = 0.115 mW/g

Reference Value = 10.7 V/m

Power Drift = 0.12 dB

Maximum value of SAR = 0.217 mW/g



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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: IBM)

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

Communication System: Athreos; Frequency: 2467 MHz; Duty Cycle: 1:1

Medium: Muscle 2450 MHz ($\sigma = 1.9643$ mho/m, $\epsilon_r = 52.641$, $\rho = 1000$ 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

2467_Rate: 2/Area Scan (7x8x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 7.84 V/m

Power Drift = 0.07 dB

Maximum value of SAR = 0.122 mW/g

2467_Rate: 2/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

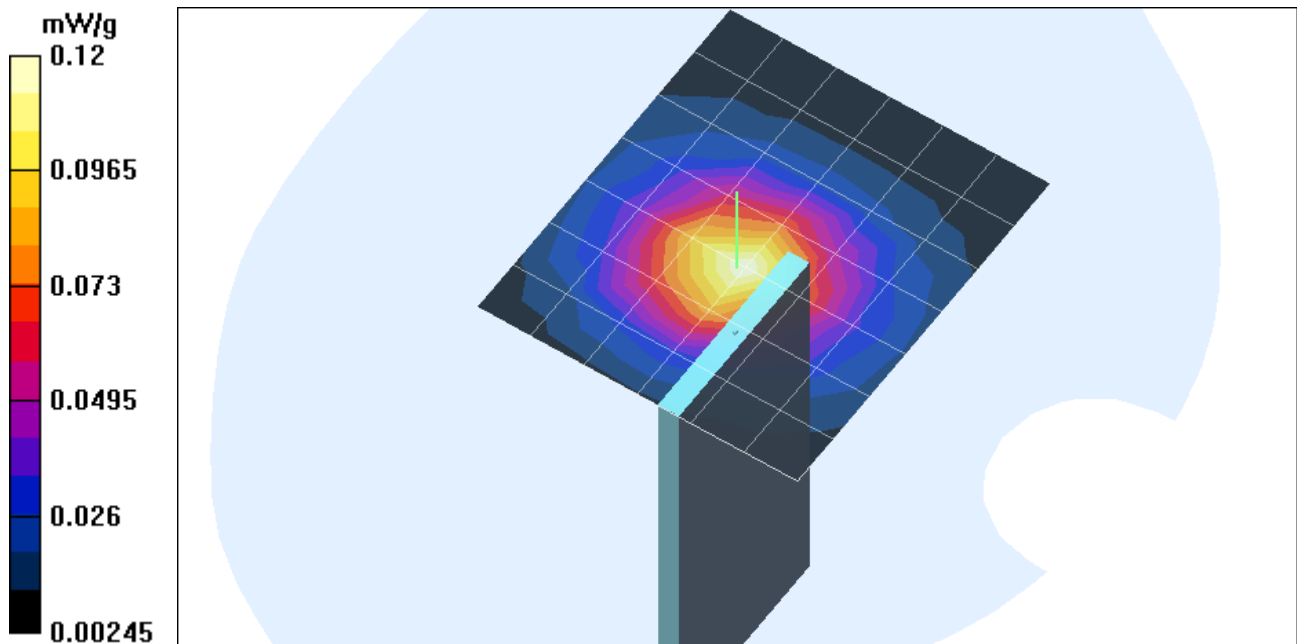
Peak SAR (extrapolated) = 0.232 W/kg

SAR(1 g) = 0.114 mW/g; SAR(10 g) = 0.0626 mW/g

Reference Value = 7.84 V/m

Power Drift = 0.07 dB

Maximum value of SAR = 0.12 mW/g



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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: IBM)

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

Communication System: Athreos; Frequency: 2472 MHz; Duty Cycle: 1:1

Medium: Muscle 2450 MHz ($\sigma = 1.9643$ mho/m, $\epsilon_r = 52.641$, $\rho = 1000$ 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

2472_Rate: 2/Area Scan (7x8x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 6.16 V/m

Power Drift = 0.06 dB

Maximum value of SAR = 0.0682 mW/g

2472_Rate: 2/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

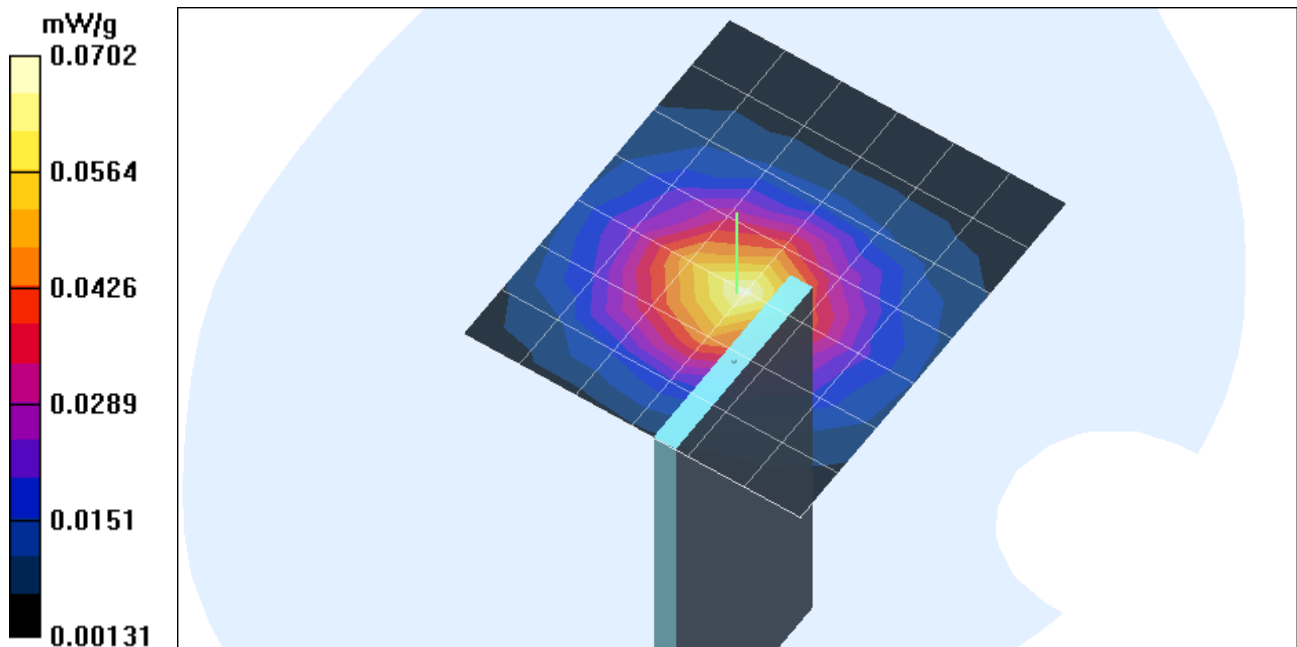
Peak SAR (extrapolated) = 0.133 W/kg

SAR(1 g) = 0.068 mW/g; SAR(10 g) = 0.0378 mW/g

Reference Value = 6.16 V/m

Power Drift = 0.06 dB

Maximum value of SAR = 0.0702 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: IBM)

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 ($\sigma = 1.9643$ mho/m, $\epsilon_r = 52.641$, $\rho = 1000$ 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: 9/Area Scan (7x8x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 9.73 V/m

Power Drift = 0.12 dB

Maximum value of SAR = 0.18 mW/g

2412_Rate: 9/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

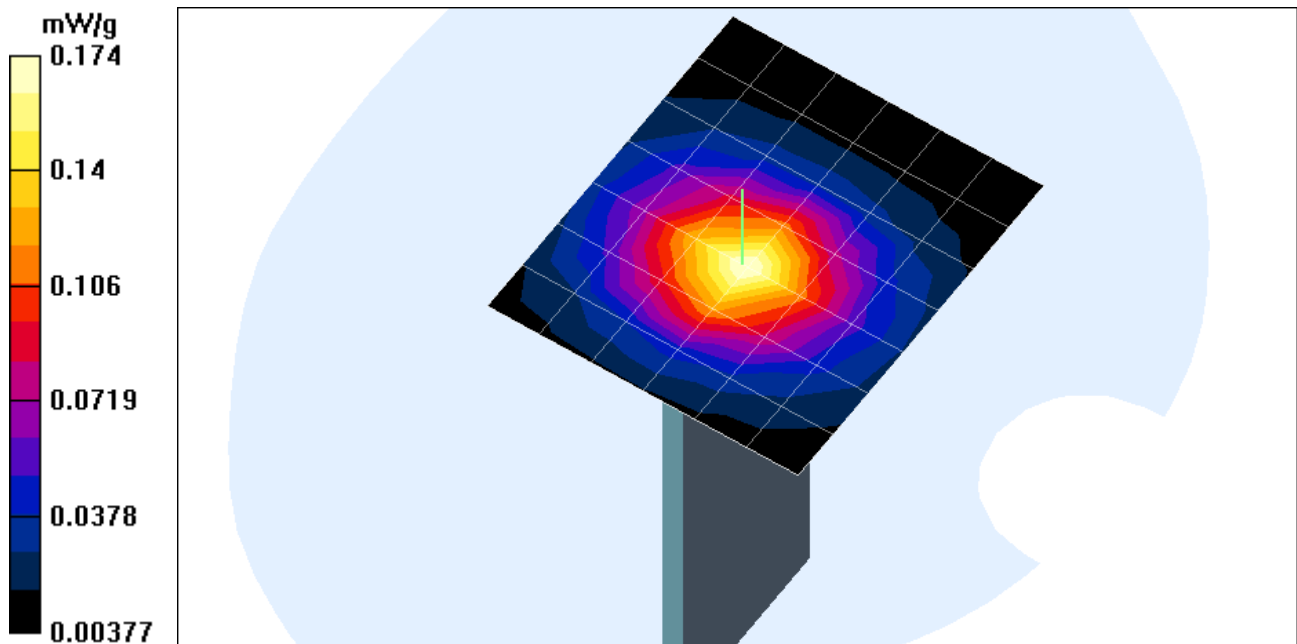
Peak SAR (extrapolated) = 0.343 W/kg

SAR(1 g) = 0.171 mW/g; SAR(10 g) = 0.0952 mW/g

Reference Value = 9.73 V/m

Power Drift = 0.12 dB

Maximum value of SAR = 0.174 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: IBM)

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 ($\sigma = 1.9658$ mho/m, $\epsilon_r = 52.621$, $\rho = 1000$ 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: 9/Area Scan (7x8x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 10.9 V/m

Power Drift = -0.13 dB

Maximum value of SAR = 0.241 mW/g

2437_Rate: 9/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

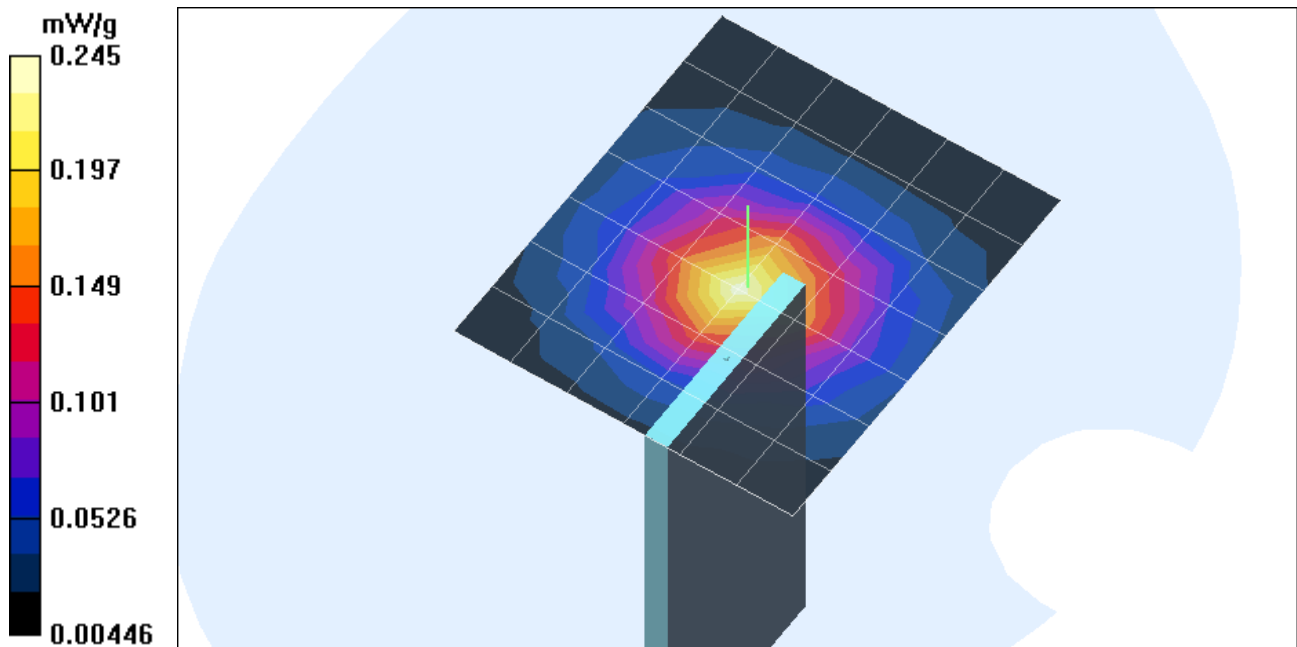
Peak SAR (extrapolated) = 0.485 W/kg

SAR(1 g) = 0.235 mW/g; SAR(10 g) = 0.127 mW/g

Reference Value = 10.9 V/m

Power Drift = -0.13 dB

Maximum value of SAR = 0.245 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: IBM)

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 ($\sigma = 1.9643$ mho/m, $\epsilon_r = 52.641$, $\rho = 1000$ 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

Turbo_Rate: 9/Area Scan (7x8x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 10.6 V/m

Power Drift = 0.06 dB

Maximum value of SAR = 0.218 mW/g

Turbo_Rate: 9/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

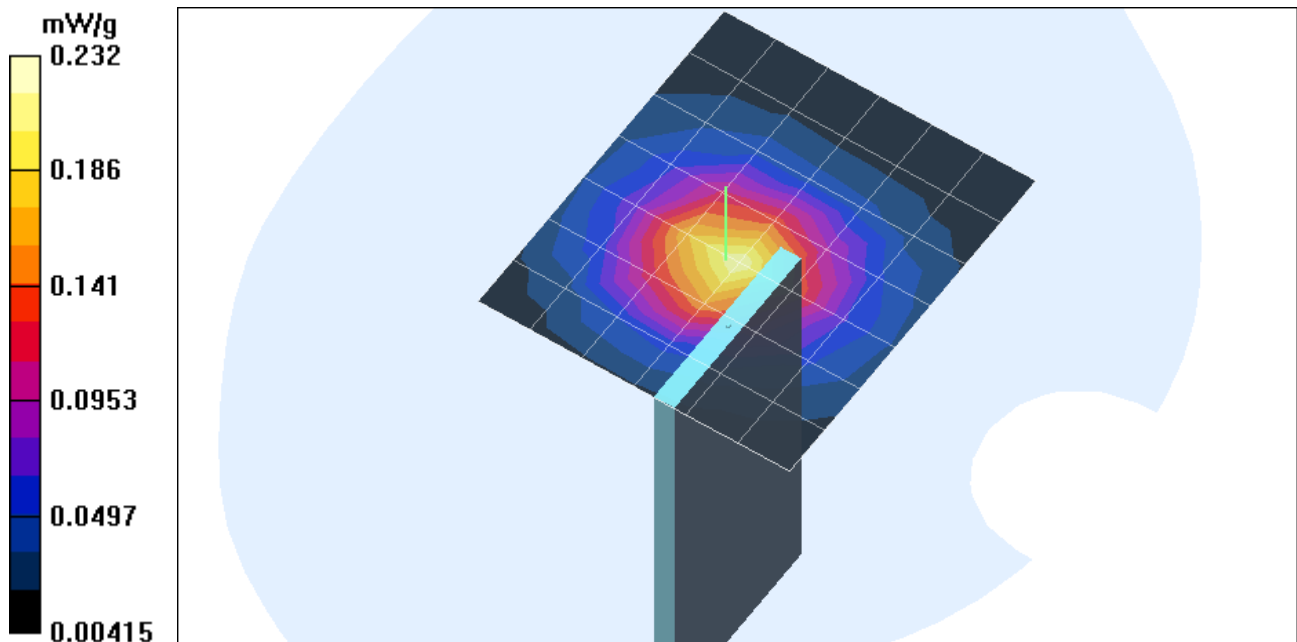
Peak SAR (extrapolated) = 0.458 W/kg

SAR(1 g) = 0.222 mW/g; SAR(10 g) = 0.12 mW/g

Reference Value = 10.6 V/m

Power Drift = 0.06 dB

Maximum value of SAR = 0.232 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: IBM)

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

Communication System: Athreos; Frequency: 2462 MHz; Duty Cycle: 1:1

Medium: Muscle 2450 MHz ($\sigma = 1.9643$ mho/m, $\epsilon_r = 52.641$, $\rho = 1000$ 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

2462_Rate: 9/Area Scan (7x8x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 9.51 V/m

Power Drift = 0.01 dB

Maximum value of SAR = 0.172 mW/g

2462_Rate: 9/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

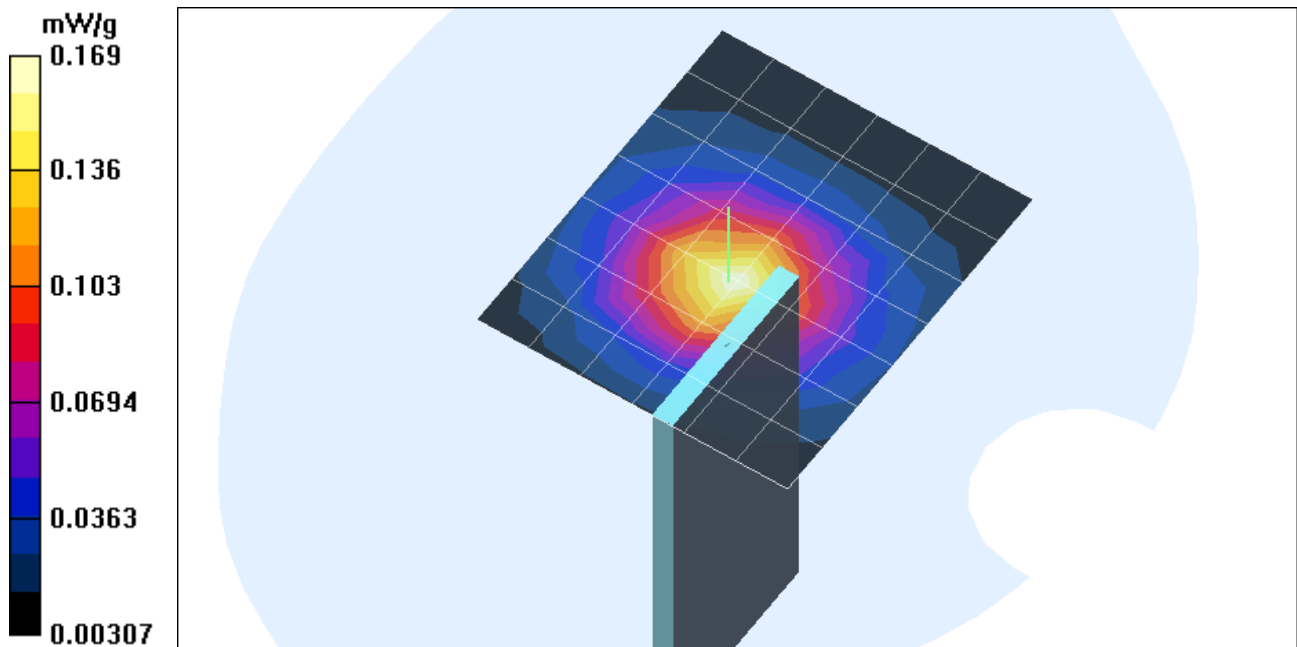
Peak SAR (extrapolated) = 0.337 W/kg

SAR(1 g) = 0.165 mW/g; SAR(10 g) = 0.0905 mW/g

Reference Value = 9.51 V/m

Power Drift = 0.01 dB

Maximum value of SAR = 0.169 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: IBM)

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

Communication System: Athreos; Frequency: 2467 MHz; Duty Cycle: 1:1

Medium: Muscle 2450 MHz ($\sigma = 1.9643$ mho/m, $\epsilon_r = 52.641$, $\rho = 1000$ 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

2467_Rate: 9/Area Scan (7x8x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 6.7 V/m

Power Drift = 0.12 dB

Maximum value of SAR = 0.086 mW/g

2467_Rate: 9/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

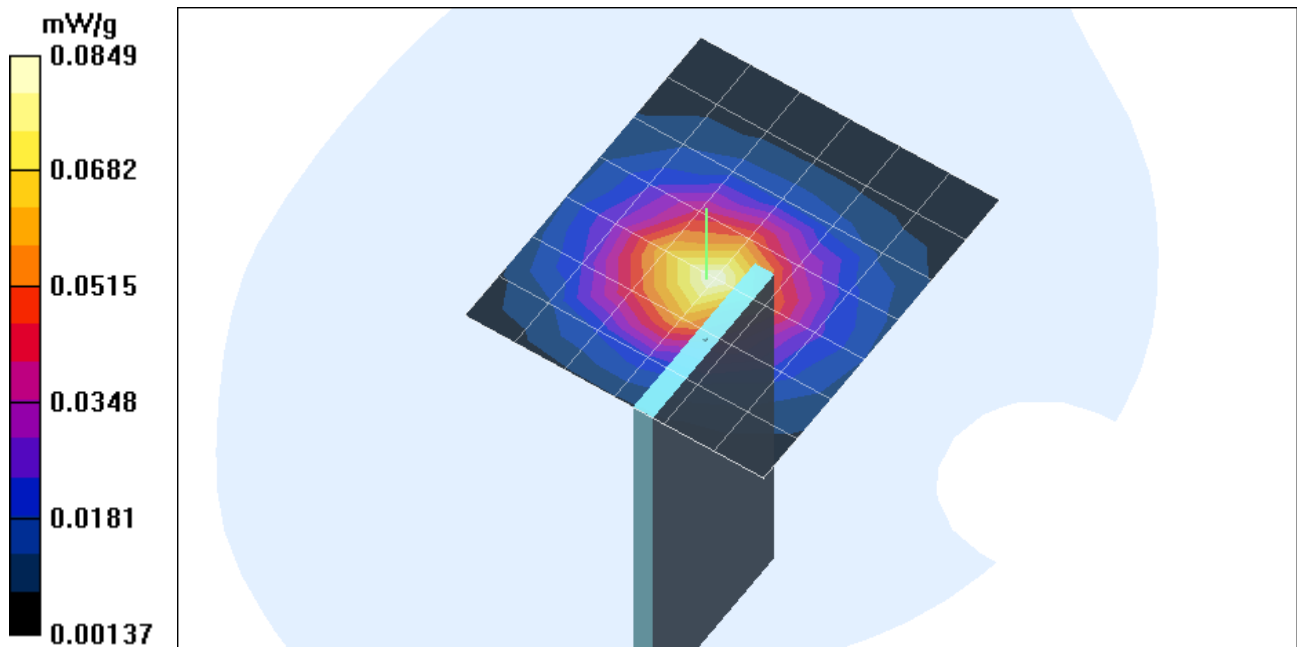
Peak SAR (extrapolated) = 0.165 W/kg

SAR(1 g) = 0.0822 mW/g; SAR(10 g) = 0.0452 mW/g

Reference Value = 6.7 V/m

Power Drift = 0.12 dB

Maximum value of SAR = 0.0849 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: IBM)

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

Communication System: Athreos; Frequency: 2472 MHz; Duty Cycle: 1:1

Medium: Muscle 2450 MHz ($\sigma = 1.9643$ mho/m, $\epsilon_r = 52.641$, $\rho = 1000$ 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

2472_Rate: 9/Area Scan (7x8x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 3.2 V/m

Power Drift = 0.07 dB

Maximum value of SAR = 0.0193 mW/g

2472_Rate: 9/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

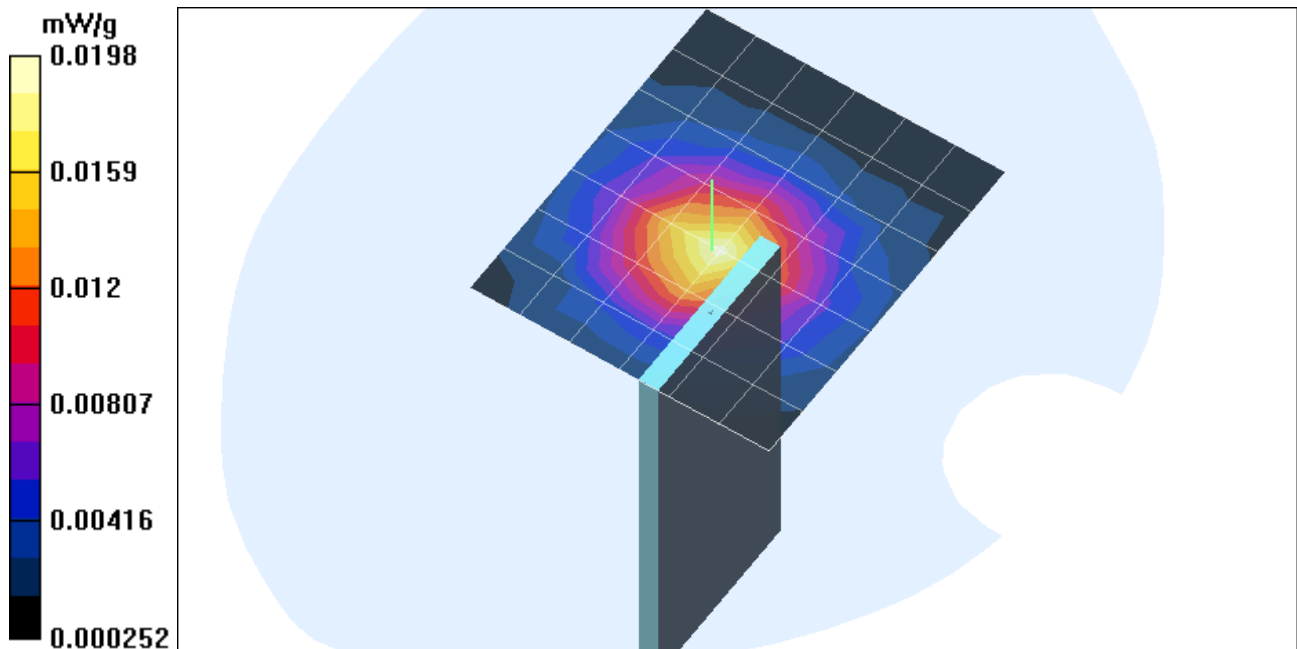
Peak SAR (extrapolated) = 0.0377 W/kg

SAR(1 g) = 0.0188 mW/g; SAR(10 g) = 0.0102 mW/g

Reference Value = 3.2 V/m

Power Drift = 0.07 dB

Maximum value of SAR = 0.0198 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: IBM)

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 ($\sigma = 1.9643$ mho/m, $\epsilon_r = 52.641$, $\rho = 1000$ 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 = 7.9 V/m

Power Drift = -0.13 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

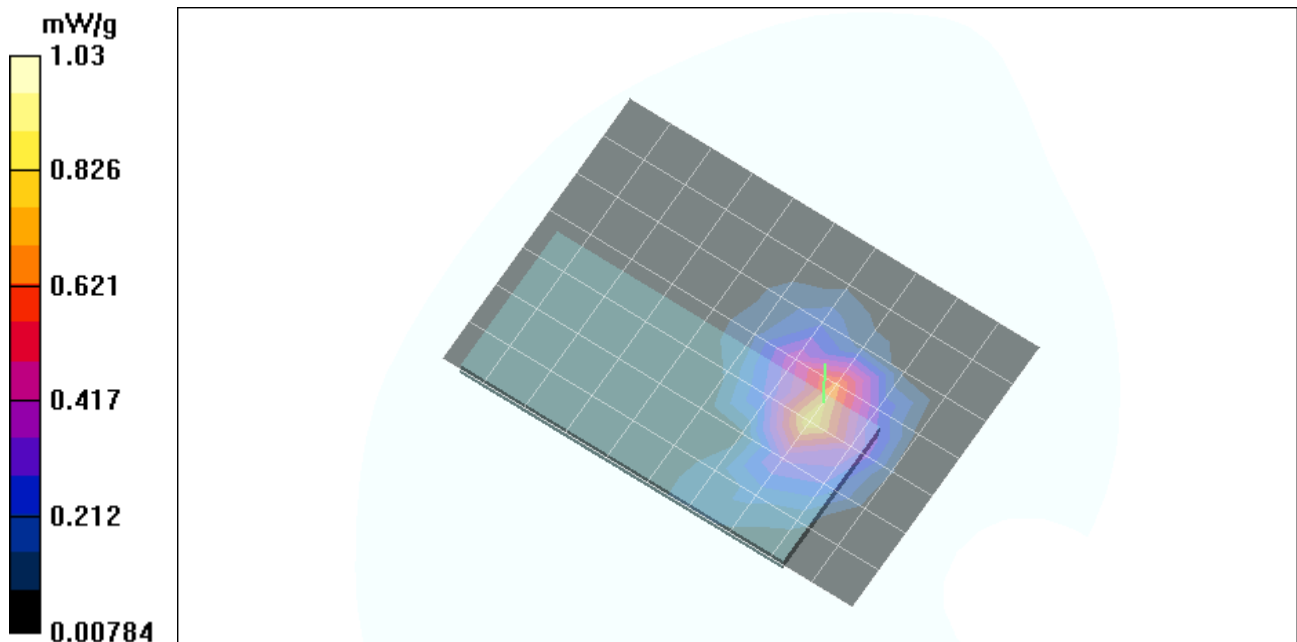
Peak SAR (extrapolated) = 2.11 W/kg

SAR(1 g) = 0.93 mW/g; SAR(10 g) = 0.434 mW/g

Reference Value = 7.9 V/m

Power Drift = -0.13 dB

Maximum value of SAR = 1.03 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: IBM)

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 ($\sigma = 1.9658$ mho/m, $\epsilon_r = 52.621$, $\rho = 1000$ 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 = 8.52 V/m

Power Drift = -0.15 dB

Maximum value of SAR = 0.972 mW/g

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

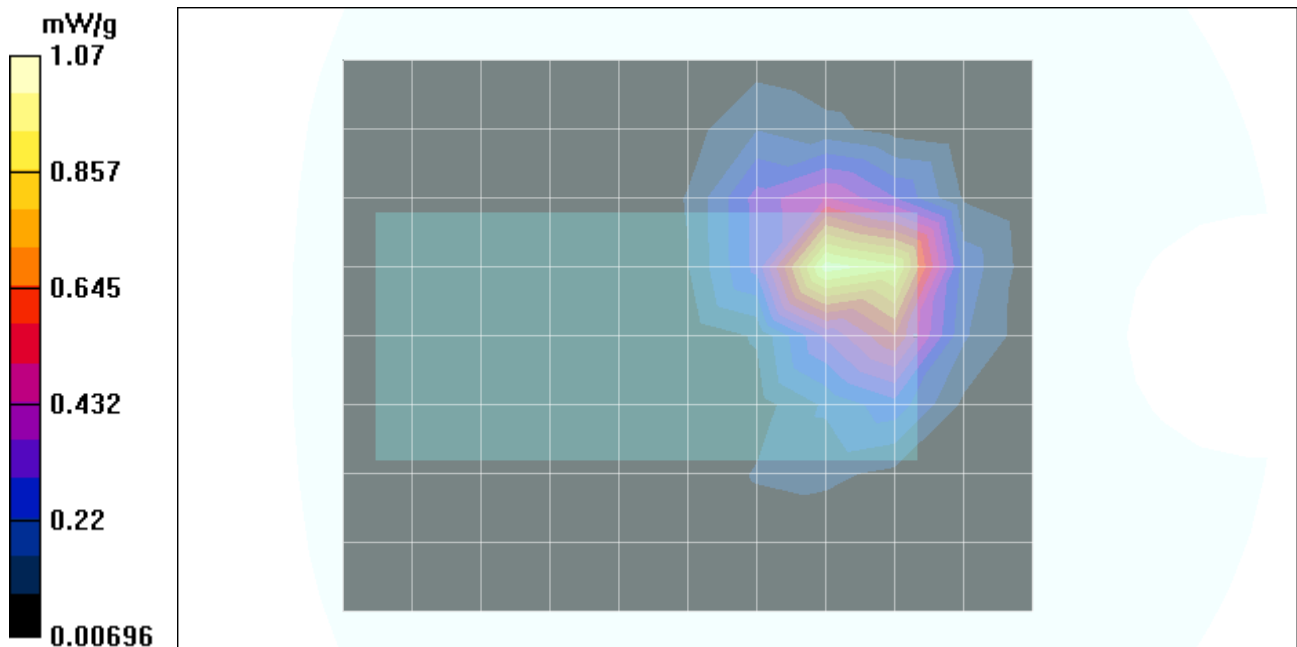
Peak SAR (extrapolated) = 2.22 W/kg

SAR(1 g) = 0.99 mW/g; SAR(10 g) = 0.467 mW/g

Reference Value = 8.52 V/m

Power Drift = -0.15 dB

Maximum value of SAR = 1.07 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: IBM)

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

Medium: Muscle 2450 MHz ($\sigma = 1.9658$ mho/m, $\epsilon_r = 52.621$, $\rho = 1000$ kg/m³)

Phantom section: Flat Section

DASY4 Configuration:

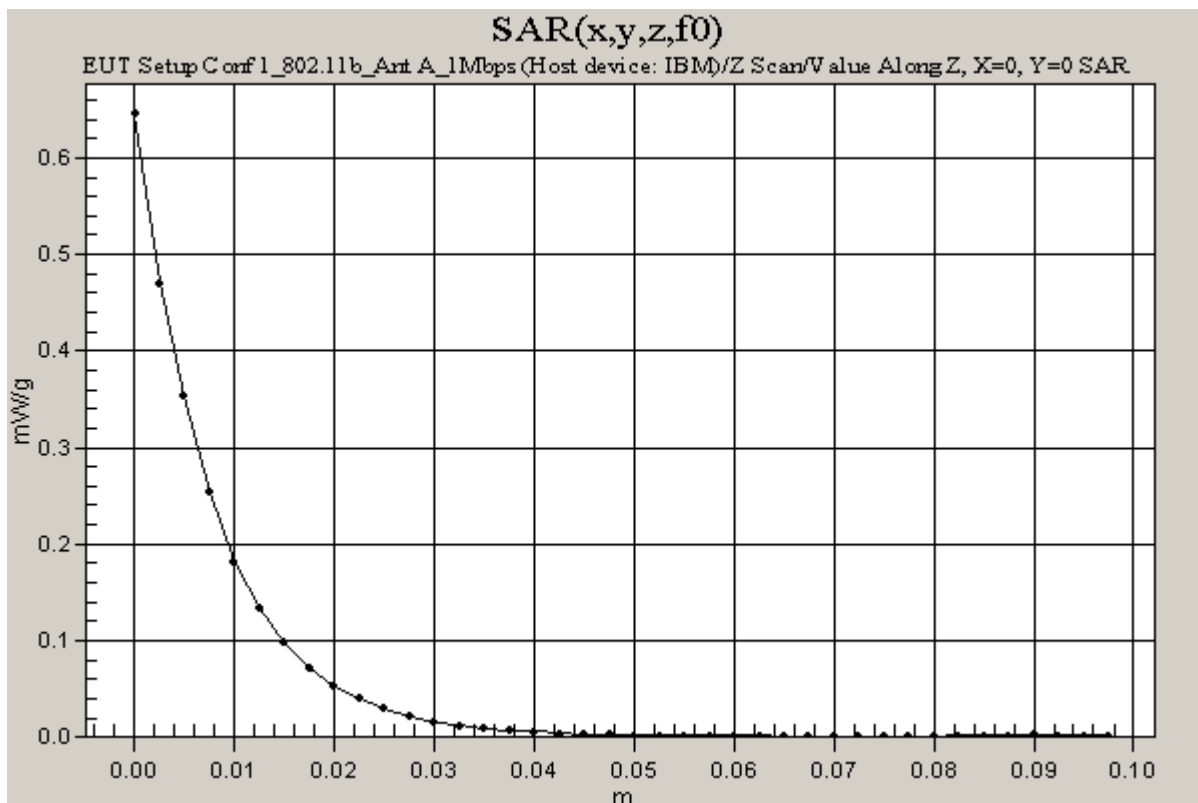
- Probe: ET3DV6 - SN1577; ConvF(4.7, 4.7, 4.7); Calibrated: 2/7/2003
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE3 Sn427; Calibrated: 2/4/2003
- Phantom: SAM 2; Type: SAM 2; Serial: 1050
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

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

Reference Value = 8.52 V/m

Power Drift = -0.15 dB

Maximum value of SAR = 0.646 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: IBM)

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

Communication System: Athreos; Frequency: 2462 MHz; Duty Cycle: 1:1

Medium: Muscle 2450 MHz ($\sigma = 1.9643$ mho/m, $\epsilon_r = 52.641$, $\rho = 1000$ 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

H1-CH/Area Scan (11x8x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 7.66 V/m

Power Drift = -0.13 dB

Maximum value of SAR = 0.679 mW/g

H1-CH/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

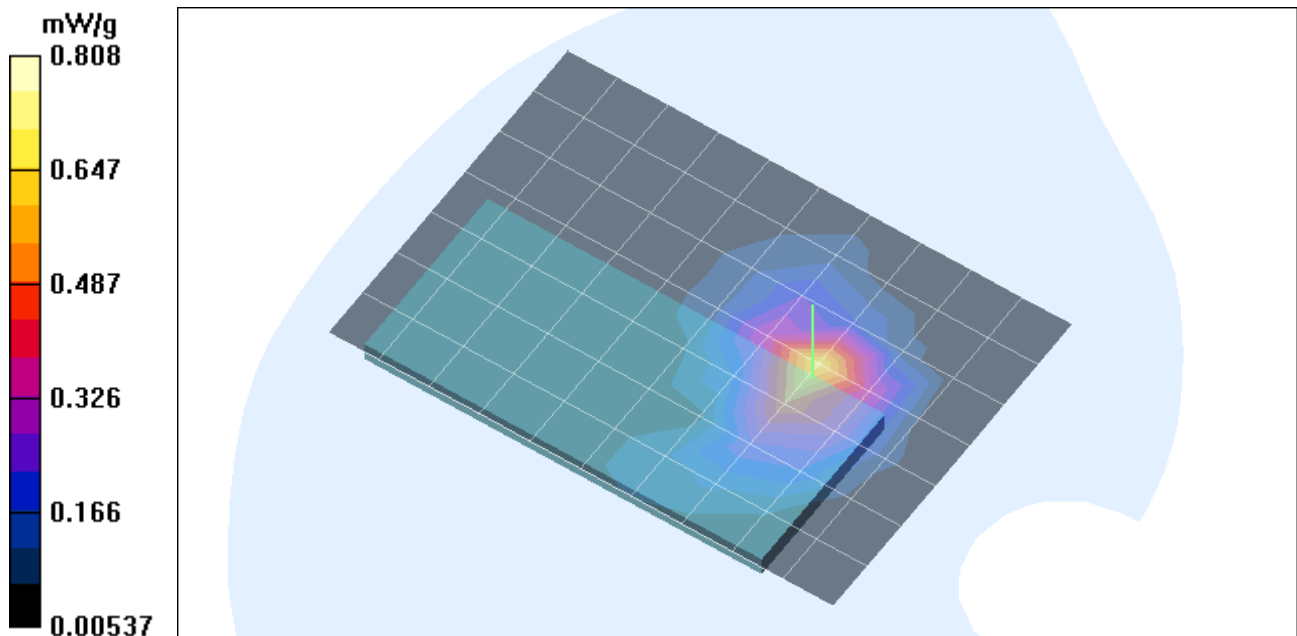
Peak SAR (extrapolated) = 1.65 W/kg

SAR(1 g) = 0.727 mW/g; SAR(10 g) = 0.339 mW/g

Reference Value = 7.66 V/m

Power Drift = -0.13 dB

Maximum value of SAR = 0.808 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: IBM)

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

Communication System: Athreos; Frequency: 2467 MHz; Duty Cycle: 1:1

Medium: Muscle 2450 MHz ($\sigma = 1.9643$ mho/m, $\epsilon_r = 52.641$, $\rho = 1000$ 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

H2-CH/Area Scan (10x7x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 5.19 V/m

Power Drift = -0.13 dB

Maximum value of SAR = 0.424 mW/g

H2-CH/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

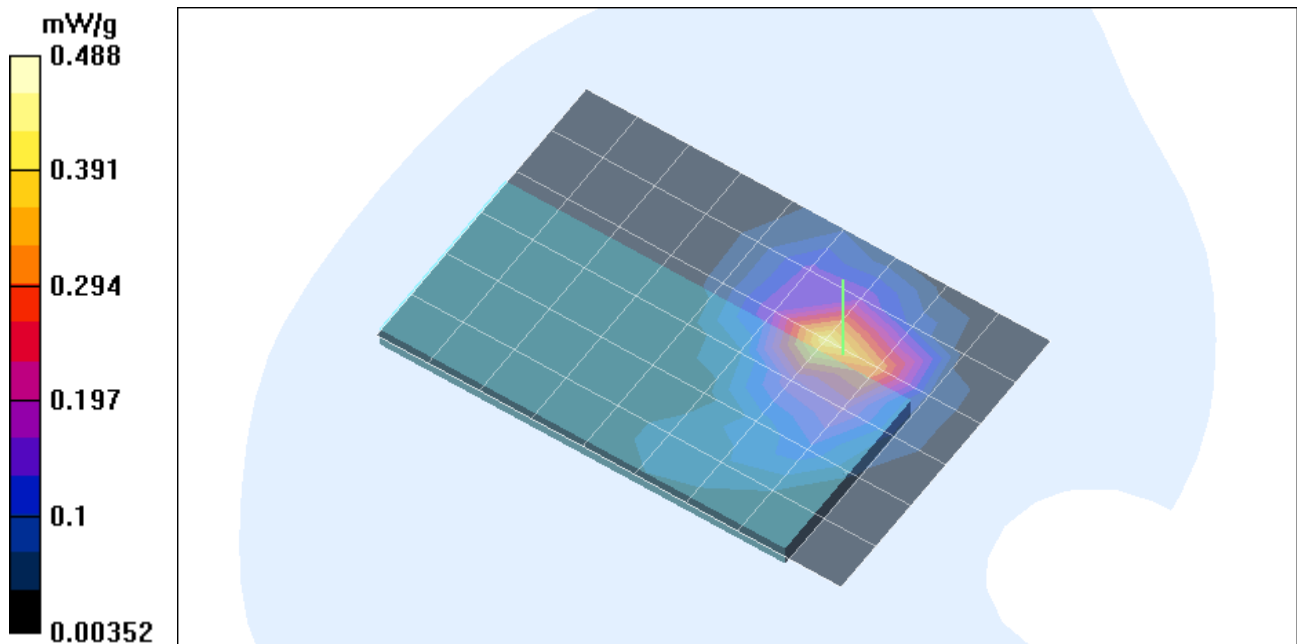
Peak SAR (extrapolated) = 1 W/kg

SAR(1 g) = 0.443 mW/g; SAR(10 g) = 0.207 mW/g

Reference Value = 5.19 V/m

Power Drift = -0.13 dB

Maximum value of SAR = 0.488 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: IBM)

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

Communication System: Athreos; Frequency: 2472 MHz; Duty Cycle: 1:1

Medium: Muscle 2450 MHz ($\sigma = 1.9643$ mho/m, $\epsilon_r = 52.641$, $\rho = 1000$ 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

H3-CH/Area Scan (10x7x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 4.82 V/m

Power Drift = -0.12 dB

Maximum value of SAR = 0.268 mW/g

H3-CH/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

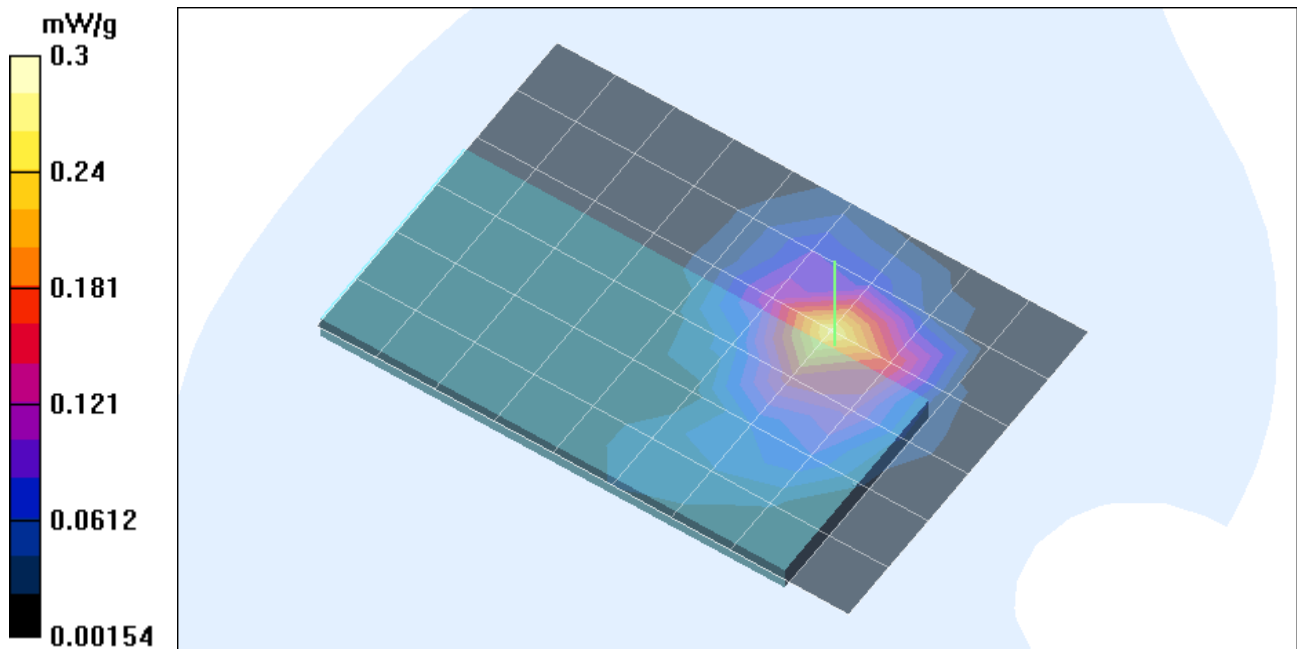
Peak SAR (extrapolated) = 0.624 W/kg

SAR(1 g) = 0.27 mW/g; SAR(10 g) = 0.124 mW/g

Reference Value = 4.82 V/m

Power Drift = -0.12 dB

Maximum value of SAR = 0.3 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: IBM)

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 ($\sigma = 1.9643$ mho/m, $\epsilon_r = 52.641$, $\rho = 1000$ 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 (10x7x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 6.73 V/m

Power Drift = -0.12 dB

Maximum value of SAR = 0.612 mW/g

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

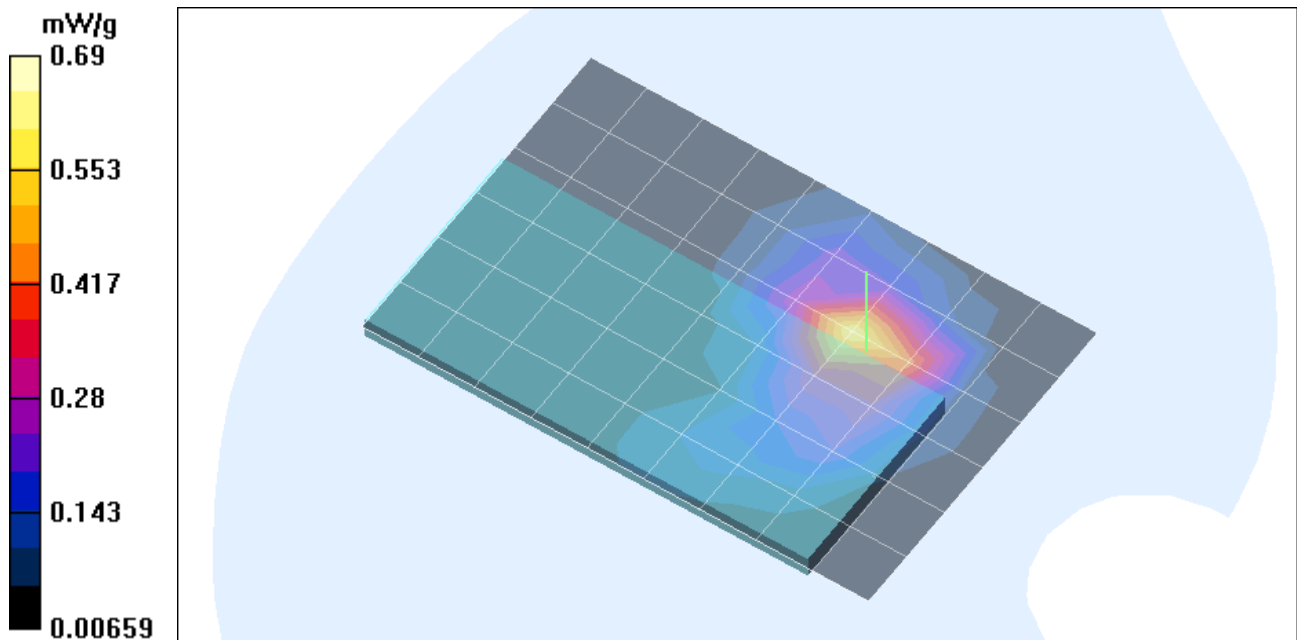
Peak SAR (extrapolated) = 1.42 W/kg

SAR(1 g) = 0.63 mW/g; SAR(10 g) = 0.298 mW/g

Reference Value = 6.73 V/m

Power Drift = -0.12 dB

Maximum value of SAR = 0.69 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: IBM)

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 ($\sigma = 1.9643$ mho/m, $\epsilon_r = 52.641$, $\rho = 1000$ 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 (10x7x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 7.82 V/m

Power Drift = -0.13 dB

Maximum value of SAR = 0.804 mW/g

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

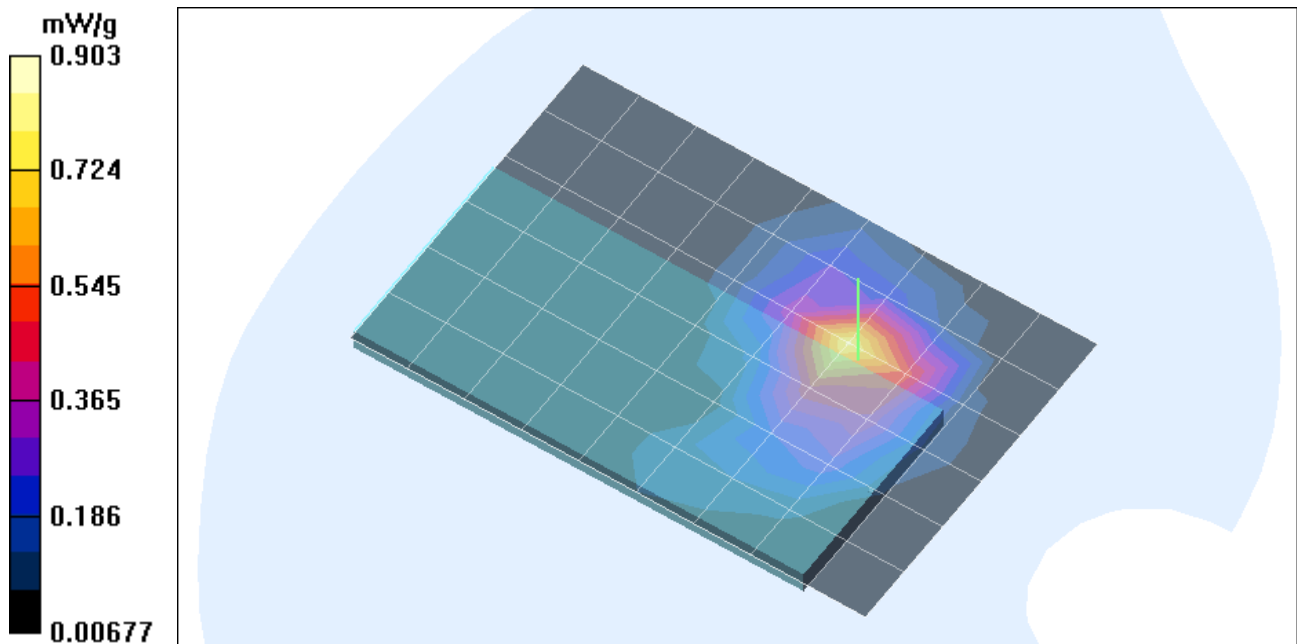
Peak SAR (extrapolated) = 1.86 W/kg

SAR(1 g) = 0.813 mW/g; SAR(10 g) = 0.38 mW/g

Reference Value = 7.82 V/m

Power Drift = -0.13 dB

Maximum value of SAR = 0.903 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: IBM)

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 ($\sigma = 1.9643$ mho/m, $\epsilon_r = 52.641$, $\rho = 1000$ 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

Turbo/Area Scan (10x7x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 6.25 V/m

Power Drift = -0.12 dB

Maximum value of SAR = 0.624 mW/g

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

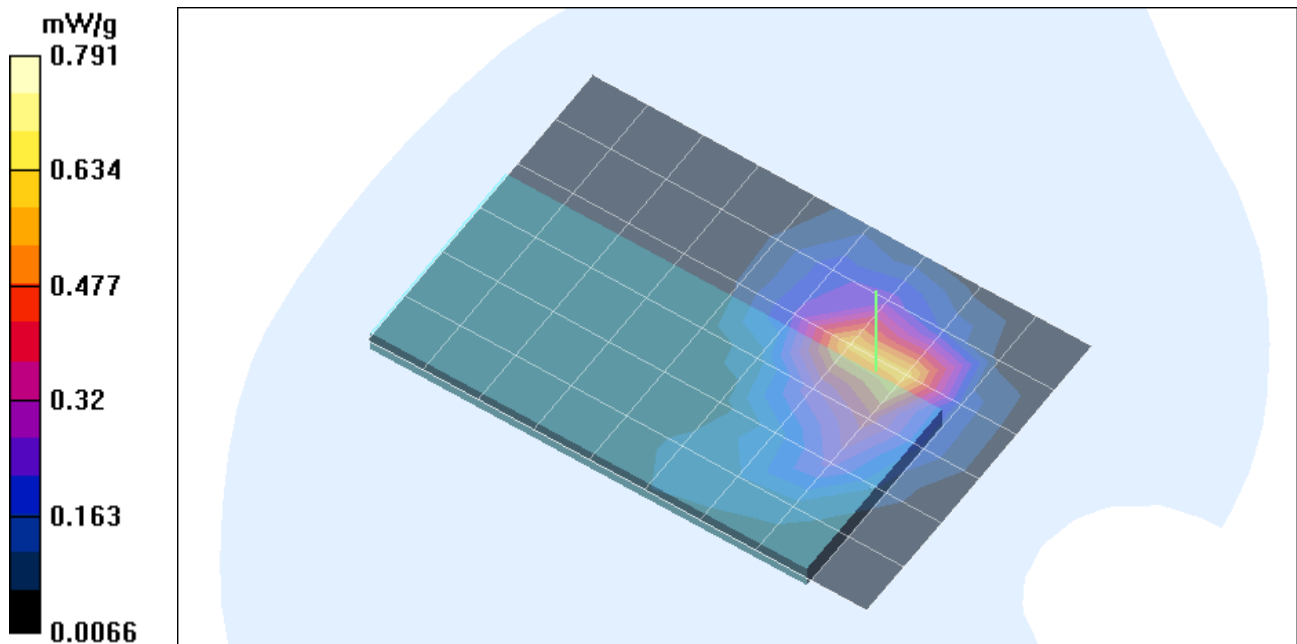
Peak SAR (extrapolated) = 1.62 W/kg

SAR(1 g) = 0.721 mW/g; SAR(10 g) = 0.341 mW/g

Reference Value = 6.25 V/m

Power Drift = -0.12 dB

Maximum value of SAR = 0.791 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: IBM)

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

Communication System: Athreos; Frequency: 2462 MHz; Duty Cycle: 1:1

Medium: Muscle 2450 MHz ($\sigma = 1.9643$ mho/m, $\epsilon_r = 52.641$, $\rho = 1000$ 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

H1-CH/Area Scan (10x7x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 7.08 V/m

Power Drift = -0.14 dB

Maximum value of SAR = 0.529 mW/g

H1-CH/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

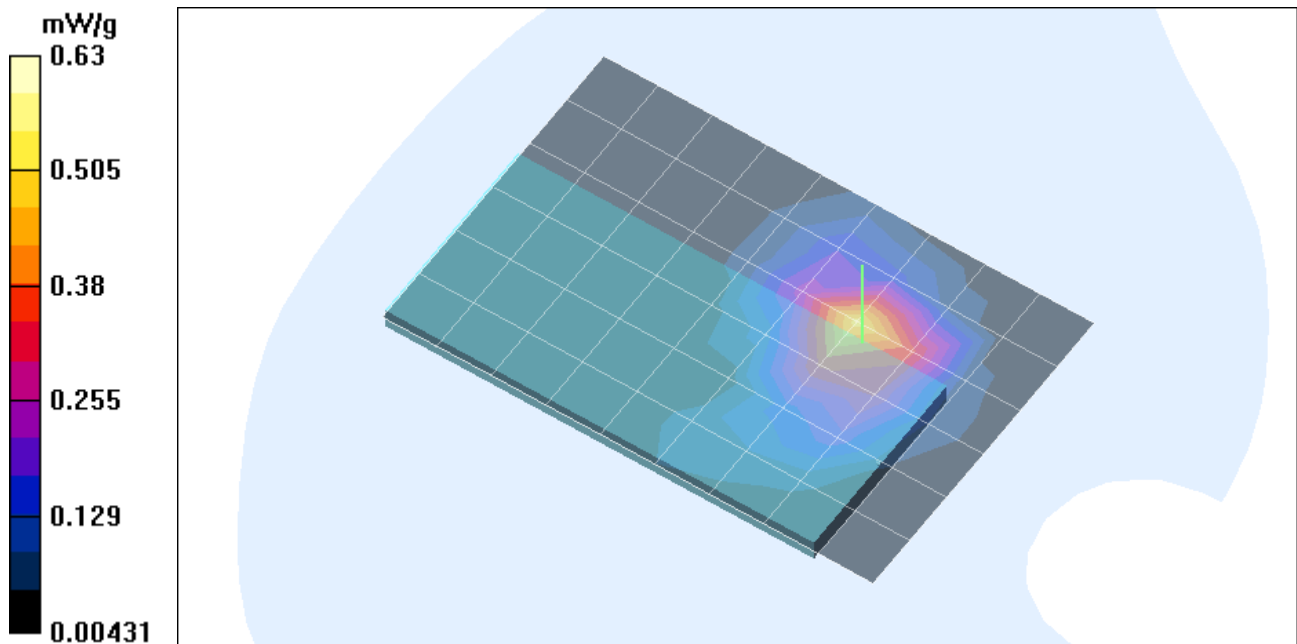
Peak SAR (extrapolated) = 1.31 W/kg

SAR(1 g) = 0.568 mW/g; SAR(10 g) = 0.265 mW/g

Reference Value = 7.08 V/m

Power Drift = -0.14 dB

Maximum value of SAR = 0.63 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: IBM)

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

Communication System: Athreos; Frequency: 2467 MHz; Duty Cycle: 1:1

Medium: Muscle 2450 MHz ($\sigma = 1.9643$ mho/m, $\epsilon_r = 52.641$, $\rho = 1000$ 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

H2-CH/Area Scan (10x7x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 5.14 V/m

Power Drift = 0.15 dB

Maximum value of SAR = 0.262 mW/g

H2-CH/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

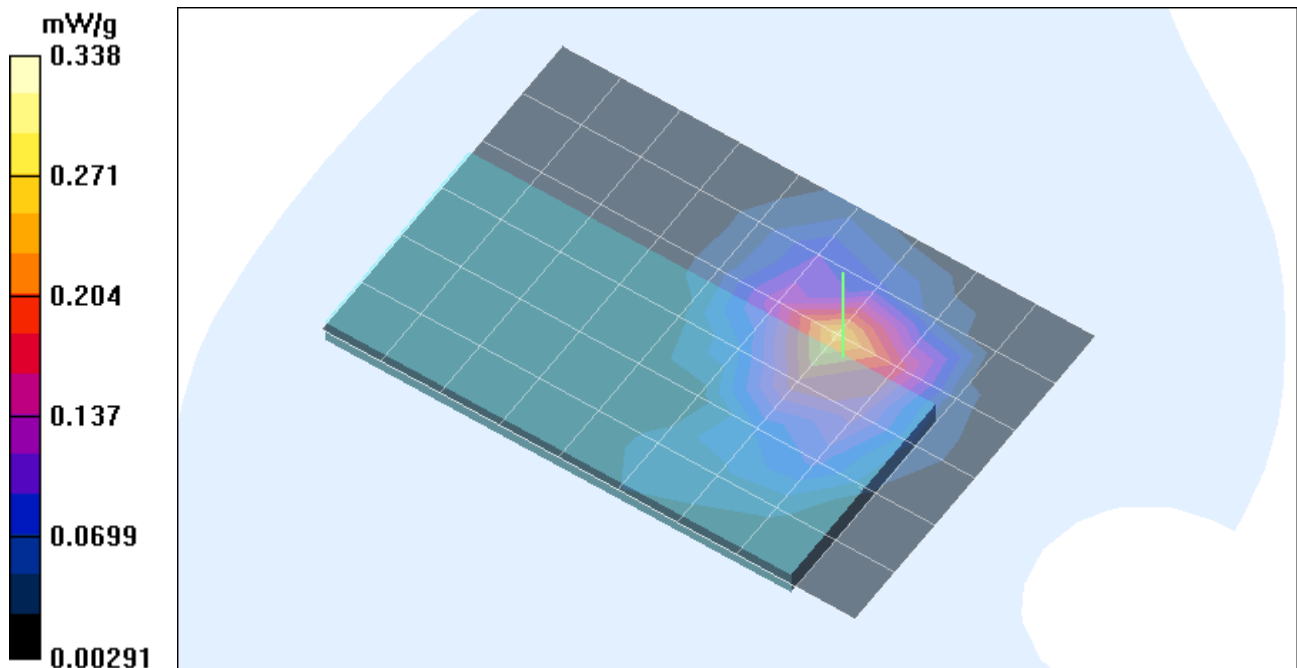
Peak SAR (extrapolated) = 0.708 W/kg

SAR(1 g) = 0.308 mW/g; SAR(10 g) = 0.145 mW/g

Reference Value = 5.14 V/m

Power Drift = 0.15 dB

Maximum value of SAR = 0.338 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: IBM)

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

Communication System: Athreos; Frequency: 2472 MHz; Duty Cycle: 1:1

Medium: Muscle 2450 MHz ($\sigma = 1.9643$ mho/m, $\epsilon_r = 52.641$, $\rho = 1000$ 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

H3-CH/Area Scan (10x7x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 2.54 V/m

Power Drift = -0.13 dB

Maximum value of SAR = 0.0813 mW/g

H3-CH/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Peak SAR (extrapolated) = 0.149 W/kg

SAR(1 g) = 0.0675 mW/g; SAR(10 g) = 0.032 mW/g

Reference Value = 2.54 V/m

Power Drift = -0.13 dB

Maximum value of SAR = 0.0739 mW/g

