

Test Laboratory: Advance Data Technology

NL-5354CB Plus Aries211.b DELL D400 Mode 8

DUT: Atheros 11g CardBus Adapter ; Type: NL-5354CB Plus Aries2 ; Test Channel
Frequency: 2462 MHz

Communication System: 802.11b ; Frequency: 2462 MHz; Duty Cycle: 1:1; Modulation type: CCK
Medium: MSL2450 ($\sigma = 2.046$ mho/m, $\epsilon_r = 51.6535$, $\rho = 1000$ kg/m³) ; Liquid level : 155mm

Phantom section: Flat Section ; Separation distance : 0mm(The tip of the EUT to the Phantom)

Antenna type : Internal Antenna ; Air temp. : 23 degrees ; Liquid temp. : 22 degrees

DASY4 Configuration:

- Probe: ET3DV6 - SN1686; ConvF(4.5, 4.5, 4.5); Calibrated: 2003/6/18
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510; Calibrated: 2003/6/2
- Phantom: SAM Twin Phantom V4.0; Type: QD 000 P40 CA; Serial: TP-1150
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

Channel 11/Area Scan (41x61x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 20.7 V/m

Power Drift = -0.1 dB

Maximum value of SAR = 0.925 mW/g

Channel 11/Zoon Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

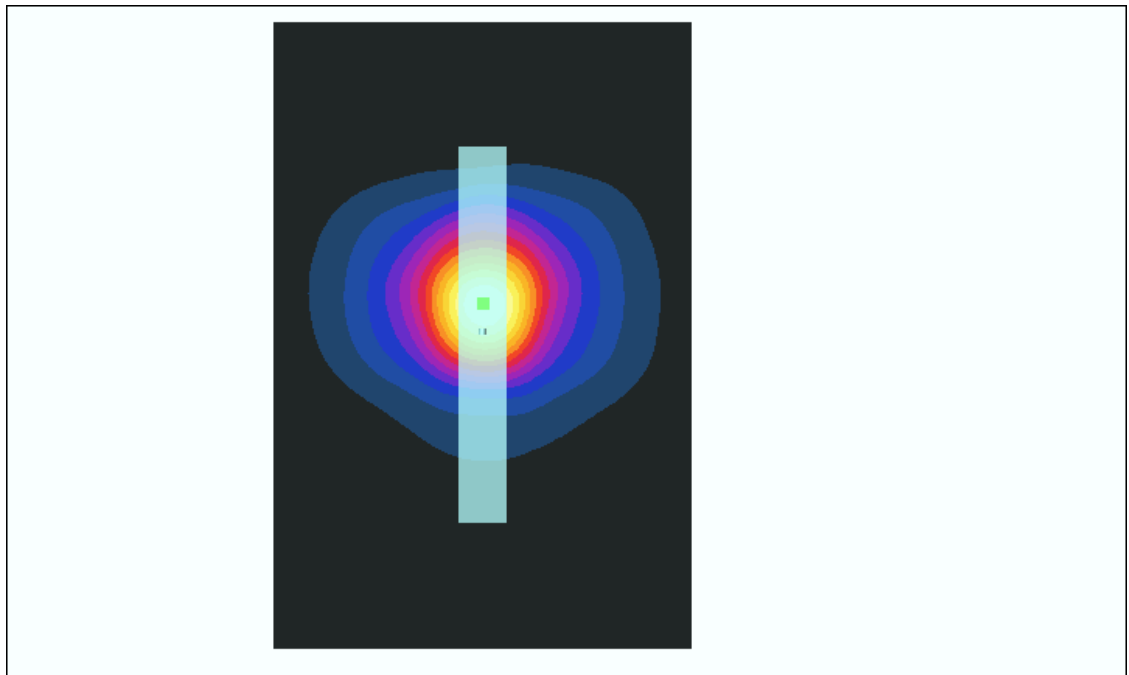
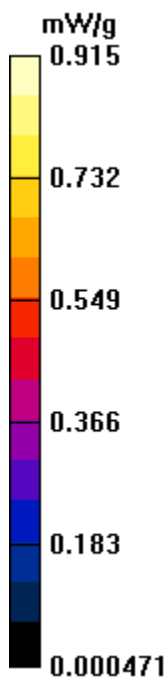
Peak SAR (extrapolated) = 2.19 W/kg

SAR(1 g) = 0.816 mW/g; SAR(10 g) = 0.311 mW/g

Reference Value = 20.7 V/m

Power Drift = -0.1 dB

Maximum value of SAR = 0.915 mW/g



Test Laboratory: Advance Data Technology

NL-5354CB Plus Aries2 11.b DELL D400 Mode 9

**DUT: Atheros 11g CardBus Adapter ; Type: NL-5354CB Plus Aries2 ; Test Channel
Frequency: 2412 MHz**

Communication System: 802.11b ; Frequency: 2412 MHz; Duty Cycle: 1:1; Modulation type: CCK
Medium: MSL2450 ($\sigma = 1.984$ mho/m, $\epsilon_r = 51.7695$, $\rho = 1000$ kg/m³) ; Liquid level : 155mm

Phantom section: Flat Section ; Separation distance : 14mm(The front of the EUT to the Phantom)

Antenna type : Internal Antenna ; Air temp. : 23.0 degrees ; Liquid temp. : 22.0 degrees

DASY4 Configuration:

- Probe: ET3DV6 - SN1686; ConvF(4.5, 4.5, 4.5); Calibrated: 2003/6/18
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510;
- Phantom: SAM Twin Phantom V4.0; Type: QD 000 P40 CA; Serial: TP-1150
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

Channel 1/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 3.77 V/m

Power Drift = -0.2 dB

Maximum value of SAR = 0.0524 mW/g

Channel 1/Zoon Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

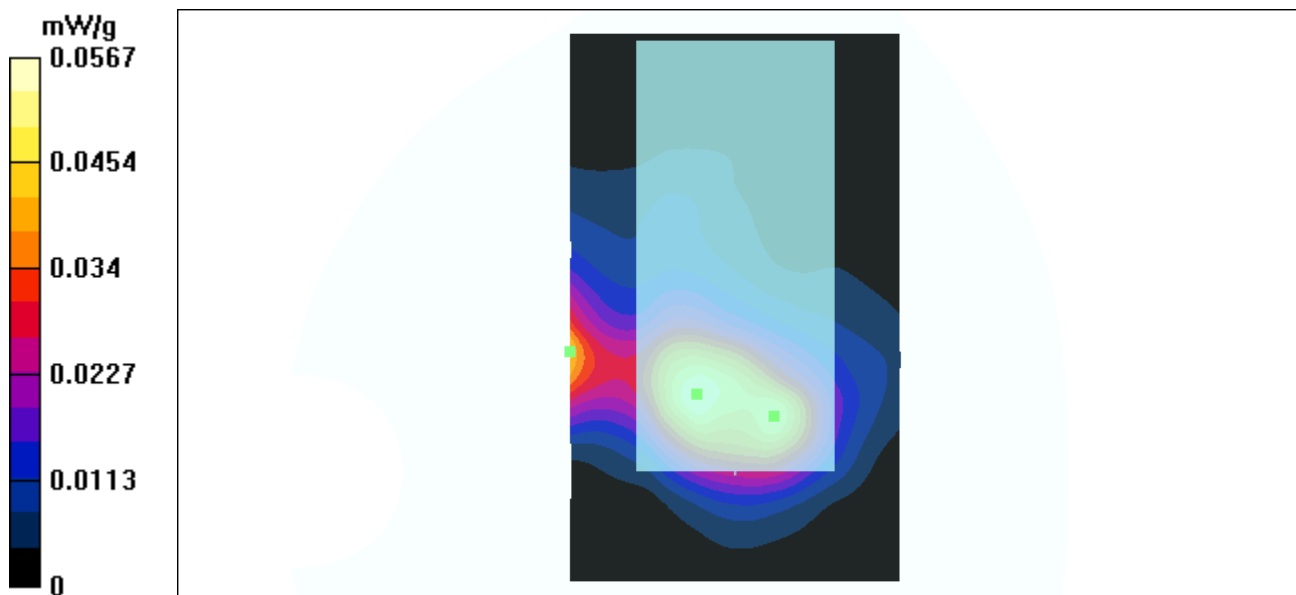
Peak SAR (extrapolated) = 0.12 W/kg

SAR(1 g) = 0.0539 mW/g; SAR(10 g) = 0.0261 mW/g

Reference Value = 3.77 V/m

Power Drift = -0.2 dB

Maximum value of SAR = 0.0567 mW/g



Test Laboratory: Advance Data Technology

NL-5354CB Plus Aries2 11.b DELL D400 Mode 9

DUT: Atheros 11g CardBus Adapter ; Type: NL-5354CB Plus Aries2 ; Test Channel
Frequency: 2437 MHz

Communication System: 802.11b ; Frequency: 2437 MHz; Duty Cycle: 1:1; Modulation type: CCK
Medium: MSL2450 ($\sigma = 2.016$ mho/m, $\epsilon_r = 51.7112$, $\rho = 1000$ kg/m³) ; Liquid level : 155mm

Phantom section: Flat Section ; Separation distance : 14mm(The front of the EUT to the Phantom)

Antenna type : Internal Antenna ; Air temp. : 23.0 degrees ; Liquid temp. : 22.0 degrees

DASY4 Configuration:

- Probe: ET3DV6 - SN1686; ConvF(4.5, 4.5, 4.5); Calibrated: 2003/6/18
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510;
- Phantom: SAM Twin Phantom V4.0; Type: QD 000 P40 CA; Serial: TP-1150
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

Channel 6/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 4.66 V/m

Power Drift = -0.2 dB

Maximum value of SAR = 0.079 mW/g

Channel 6/Zoon Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

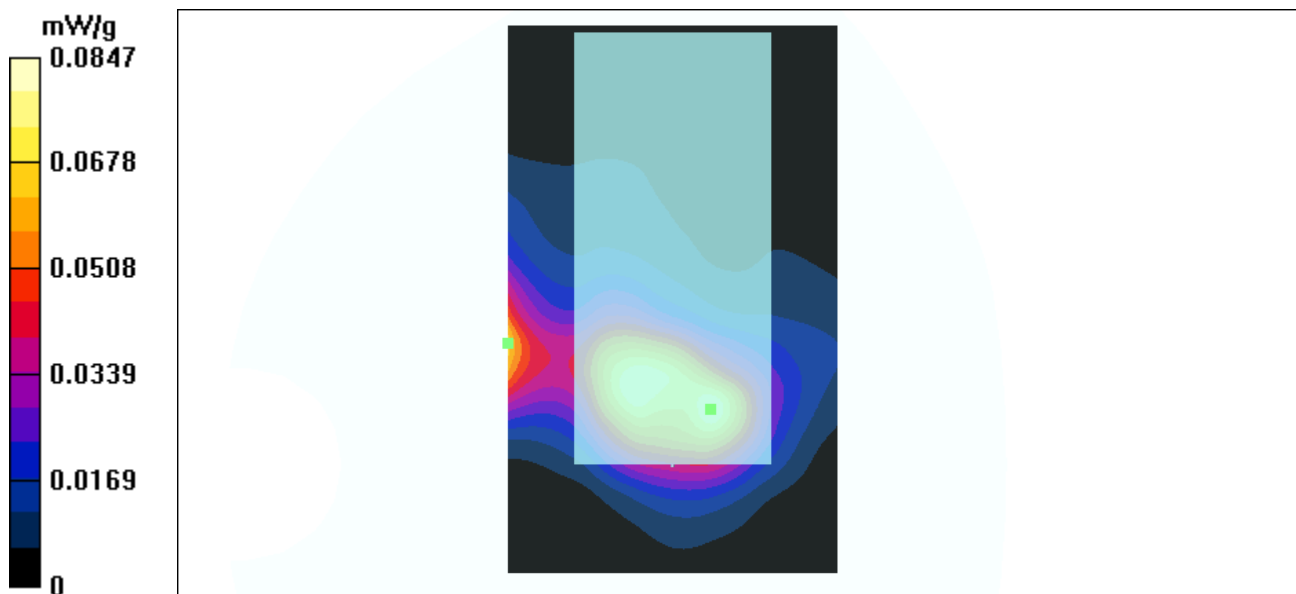
Peak SAR (extrapolated) = 0.175 W/kg

SAR(1 g) = 0.0741 mW/g; SAR(10 g) = 0.0361 mW/g

Reference Value = 4.66 V/m

Power Drift = -0.2 dB

Maximum value of SAR = 0.0847 mW/g



Test Laboratory: Advance Data Technology

NL-5354CB Plus Aries2 11.b DELL D400 Mode 9

DUT: Atheros 11g CardBus Adapter ; Type: NL-5354CB Plus Aries2 ; Test Channel
Frequency: 2462 MHz

Communication System: 802.11b ; Frequency: 2462 MHz; Duty Cycle: 1:1; Modulation type: CCK
Medium: MSL2450 ($\sigma = 2.046$ mho/m, $\epsilon_r = 51.6535$, $\rho = 1000$ kg/m³) ; Liquid level : 155mm

Phantom section: Flat Section ; Separation distance : 14mm(The front of the EUT to the Phantom)

Antenna type : Internal Antenna ; Air temp. : 23.0 degrees ; Liquid temp. : 22.0 degrees

DASY4 Configuration:

- Probe: ET3DV6 - SN1686; ConvF(4.5, 4.5, 4.5); Calibrated: 2003/6/18
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510;
- Phantom: SAM Twin Phantom V4.0; Type: QD 000 P40 CA; Serial: TP-1150
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

Channel 11/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 4.52 V/m

Power Drift = -0.01 dB

Maximum value of SAR = 0.0769 mW/g

Channel 11/Zoon Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

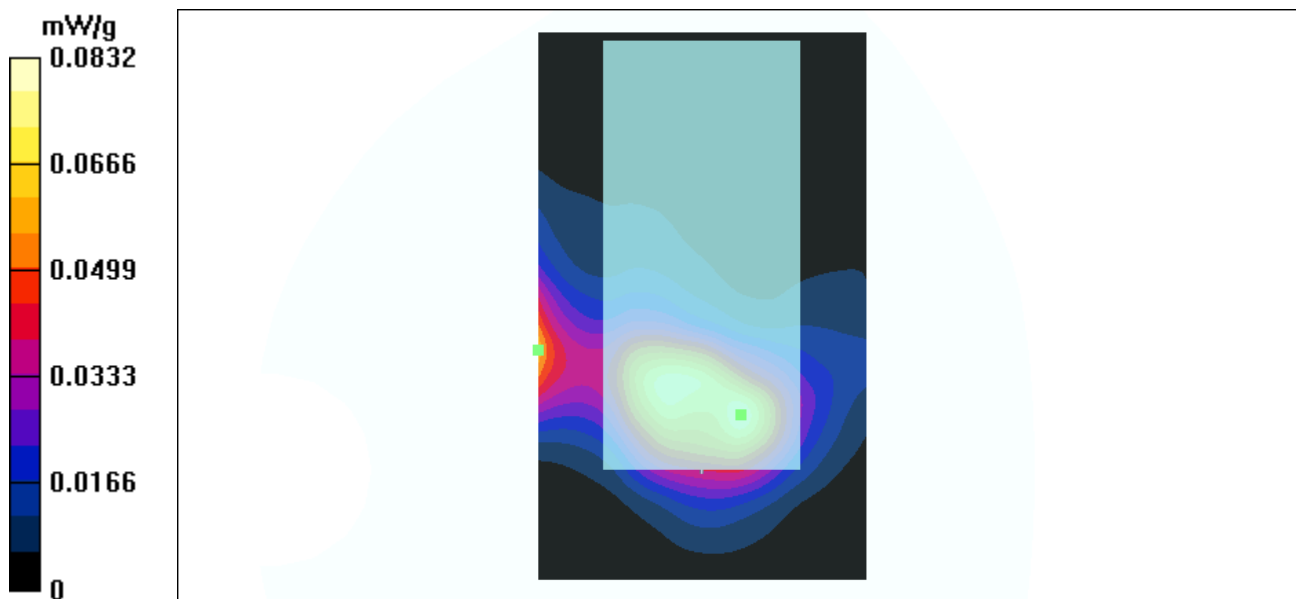
Peak SAR (extrapolated) = 0.175 W/kg

SAR(1 g) = 0.0735 mW/g; SAR(10 g) = 0.0359 mW/g

Reference Value = 4.52 V/m

Power Drift = -0.01 dB

Maximum value of SAR = 0.0832 mW/g



Test Laboratory: Advance Data Technology

NL-5354CB Plus Aries2 11.g DELL C600 Mode 10

**DUT: Atheros 11g CardBus Adapter ; Type: NL-5354CB Plus Aries2 ; Test Channel
Frequency: 2412 MHz**

Communication System: 802.11g ; Frequency: 2412 MHz; Duty Cycle: 1:1; Modulation type: OFDM

Medium: MSL2450 ($\sigma = 1.978$ mho/m, $\epsilon_r = 51.2729$, $\rho = 1000$ kg/m³) ; Liquid level : 155mm

Phantom section: Flat Section ; Separation distance : 0mm(The tip of the EUT to the Phantom)

Antenna type : Internal Antenna ; Air temp. : 22 degrees ; Liquid temp. : 21 degrees

DASY4 Configuration:

- Probe: ET3DV6 - SN1686; ConvF(4.5, 4.5, 4.5); Calibrated: 6/18/2003
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510; Calibrated: 6/2/2003
- Phantom: SAM Twin Phantom V4.0; Type: QD 000 P40 CA; Serial: TP-1150
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

Channel 1/Area Scan (41x61x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 13.5 V/m

Power Drift = -0.08 dB

Maximum value of SAR = 0.343 mW/g

Channel 1/Zoon Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

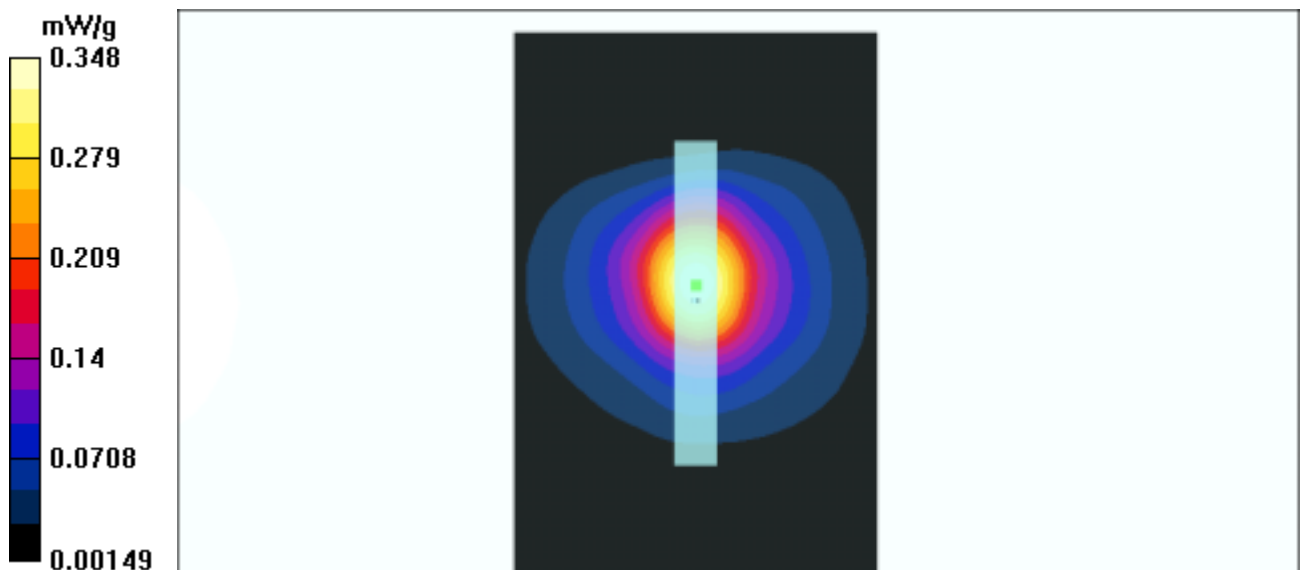
Peak SAR (extrapolated) = 0.836 W/kg

SAR(1 g) = 0.321 mW/g; SAR(10 g) = 0.131 mW/g

Reference Value = 13.5 V/m

Power Drift = -0.08 dB

Maximum value of SAR = 0.348 mW/g



Test Laboratory: Advance Data Technology

NL-5354CB Plus Aries2 11.g DELL C600 Mode 10

**DUT: Atheros 11g CardBus Adapter ; Type: NL-5354CB Plus Aries2 ; Test Channel
Frequency: 2437 MHz**

Communication System: 802.11g ; Frequency: 2437 MHz; Duty Cycle: 1:1; Modulation type: OFDM

Medium: MSL2450 ($\sigma = 2.016$ mho/m, $\epsilon_r = 51.7112$, $\rho = 1000$ kg/m³) ; Liquid level : 155mm

Phantom section: Flat Section ; Separation distance : 0mm(The tip of the EUT to the Phantom)

Antenna type : Internal Antenna ; Air temp. : 23 degrees ; Liquid temp. : 22 degrees

DASY4 Configuration:

- Probe: ET3DV6 - SN1686; ConvF(4.5, 4.5, 4.5); Calibrated: 2003/6/18

- Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE3 Sn510;

- Phantom: SAM Twin Phantom V4.0; Type: QD 000 P40 CA; Serial: TP-1150

- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

Channel 6/Area Scan (41x61x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 15.4 V/m

Power Drift = 0.2 dB

Maximum value of SAR = 0.515 mW/g

Channel 6/Zoon Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

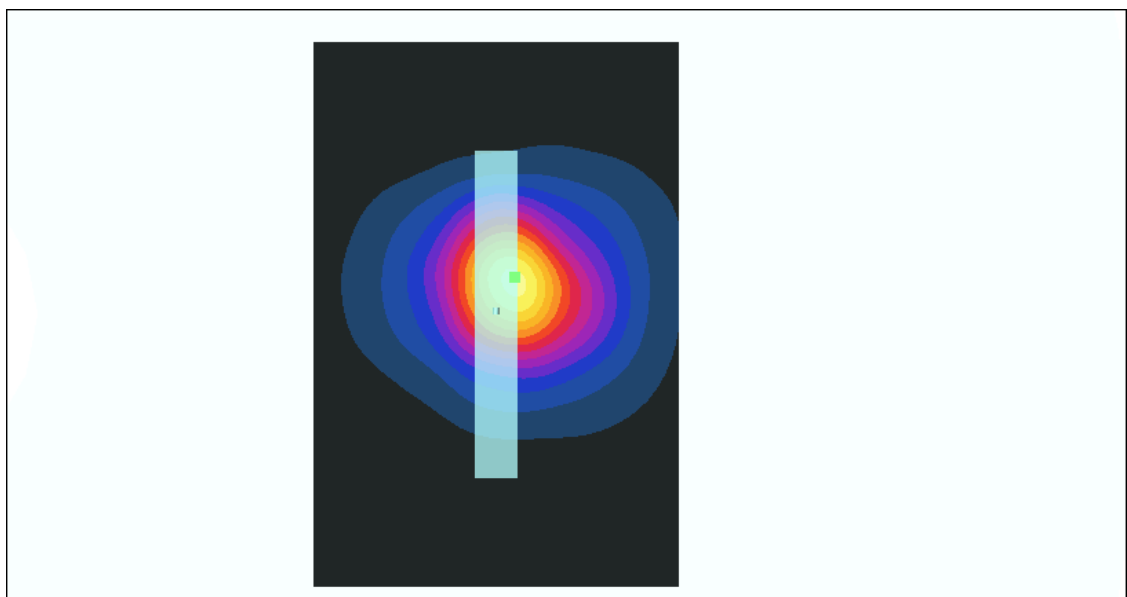
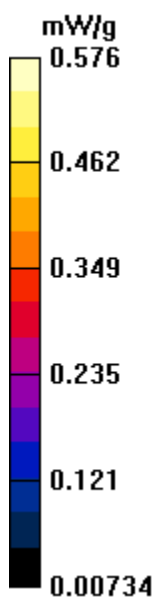
Peak SAR (extrapolated) = 1.45 W/kg

SAR(1 g) = 0.538 mW/g; SAR(10 g) = 0.222 mW/g

Reference Value = 15.4 V/m

Power Drift = 0.2 dB

Maximum value of SAR = 0.576 mW/g



Test Laboratory: Advance Data Technology

NL-5354CB Plus Aries2 11.g DELL C600 Mode 10

**DUT: Atheros 11g CardBus Adapter ; Type: NL-5354CB Plus Aries2 ; Test Channel
Frequency: 2462 MHz**

Communication System: 802.11g ; Frequency: 2462 MHz; Duty Cycle: 1:1; Modulation type: OFDM

Medium: MSL2450 ($\sigma = 2.042$ mho/m, $\epsilon_r = 51.0685$, $\rho = 1000$ kg/m³) ; Liquid level : 155mm

Phantom section: Flat Section ; Separation distance : 0mm(The tip of the EUT to the Phantom)

Antenna type : Internal Antenna ; Air temp. : 22 degrees ; Liquid temp. : 21 degrees

DASY4 Configuration:

- Probe: ET3DV6 - SN1686; ConvF(4.5, 4.5, 4.5); Calibrated: 6/18/2003
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510; Calibrated: 6/2/2003
- Phantom: SAM Twin Phantom V4.0; Type: QD 000 P40 CA; Serial: TP-1150
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

Channel 11/Area Scan (41x61x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 13.1 V/m

Power Drift = -0.07 dB

Maximum value of SAR = 0.342 mW/g

Channel 11/Zoon Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

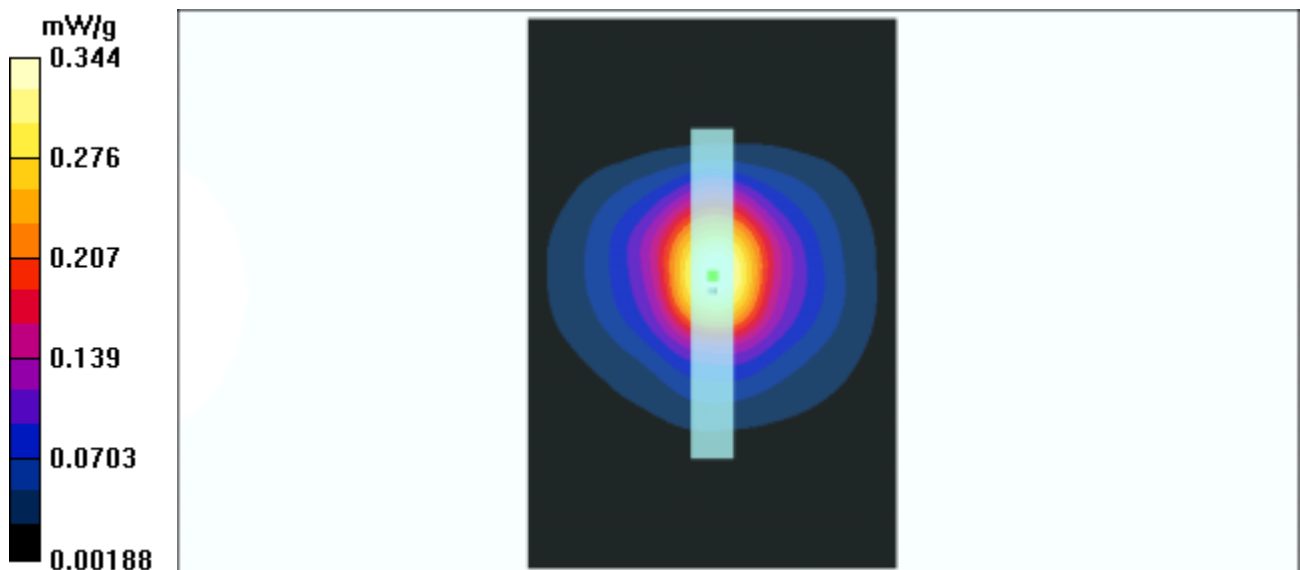
Peak SAR (extrapolated) = 0.831 W/kg

SAR(1 g) = 0.315 mW/g; SAR(10 g) = 0.127 mW/g

Reference Value = 13.1 V/m

Power Drift = -0.07 dB

Maximum value of SAR = 0.344 mW/g



Test Laboratory: Advance Data Technology

NL-5354CB Plus Aries2 11.g DELL INSPIRON3800 Mode 11

**DUT: Atheros 11g CardBus Adapter ; Type: NL-5354CB Plus Aries2 ; Test Channel
Frequency: 2412 MHz**

Communication System: 802.11g ; Frequency: 2412 MHz; Duty Cycle: 1:1; Modulation type: OFDM

Medium: MSL2450 ($\sigma = 1.978$ mho/m, $\epsilon_r = 51.2729$, $\rho = 1000$ kg/m³) ; Liquid level : 155mm

Phantom section: Flat Section ; Separation distance : 0mm(The tip of the EUT to the Phantom)

Antenna type : Internal Antenna ; Air temp. : 22 degrees ; Liquid temp. : 21 degrees

DASY4 Configuration:

- Probe: ET3DV6 - SN1686; ConvF(4.5, 4.5, 4.5); Calibrated: 6/18/2003
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510; Calibrated: 6/2/2003
- Phantom: SAM Twin Phantom V4.0; Type: QD 000 P40 CA; Serial: TP-1150
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

Channel 1/Area Scan (41x61x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 14.6 V/m

Power Drift = 0.2 dB

Maximum value of SAR = 0.411 mW/g

Channel 1/Zoon Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

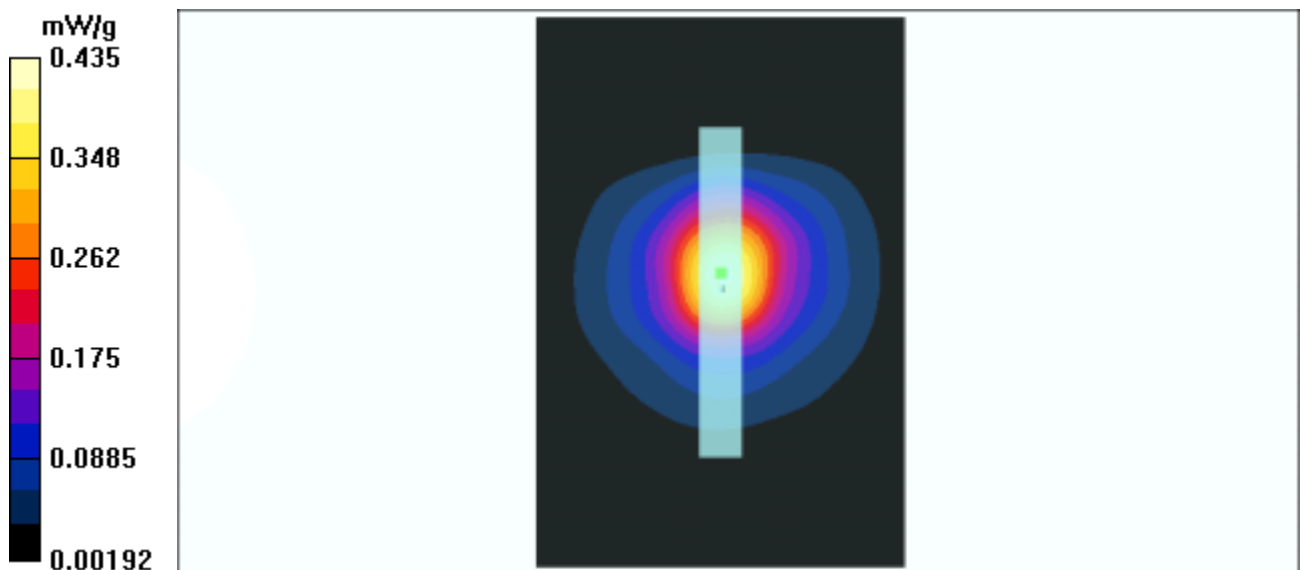
Peak SAR (extrapolated) = 1.03 W/kg

SAR(1 g) = 0.397 mW/g; SAR(10 g) = 0.159 mW/g

Reference Value = 14.6 V/m

Power Drift = 0.2 dB

Maximum value of SAR = 0.435 mW/g



Test Laboratory: Advance Data Technology

NL-5354CB Plus Aries2 11.g DELL INSPIRON3800 Mode 11

**DUT: Atheros 11g CardBus Adapter ; Type: NL-5354CB Plus Aries2 ; Test Channel
Frequency: 2437 MHz**

Communication System: 802.11g ; Frequency: 2437 MHz; Duty Cycle: 1:1; Modulation type: OFDM

Medium: MSL2450 ($\sigma = 2.01$ mho/m, $\epsilon_r = 51.1701$, $\rho = 1000$ kg/m³) ; Liquid level : 155mm

Phantom section: Flat Section ; Separation distance : 0mm(The tip of the EUT to the Phantom)

Antenna type : Internal Antenna ; Air temp. : 22 degrees ; Liquid temp. : 21 degrees

DASY4 Configuration:

- Probe: ET3DV6 - SN1686; ConvF(4.5, 4.5, 4.5); Calibrated: 6/18/2003
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510; Calibrated: 6/2/2003
- Phantom: SAM Twin Phantom V4.0; Type: QD 000 P40 CA; Serial: TP-1150
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

Channel 6/Area Scan (41x61x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 16.5 V/m

Power Drift = -0.2 dB

Maximum value of SAR = 0.52 mW/g

Channel 6/Zoon Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

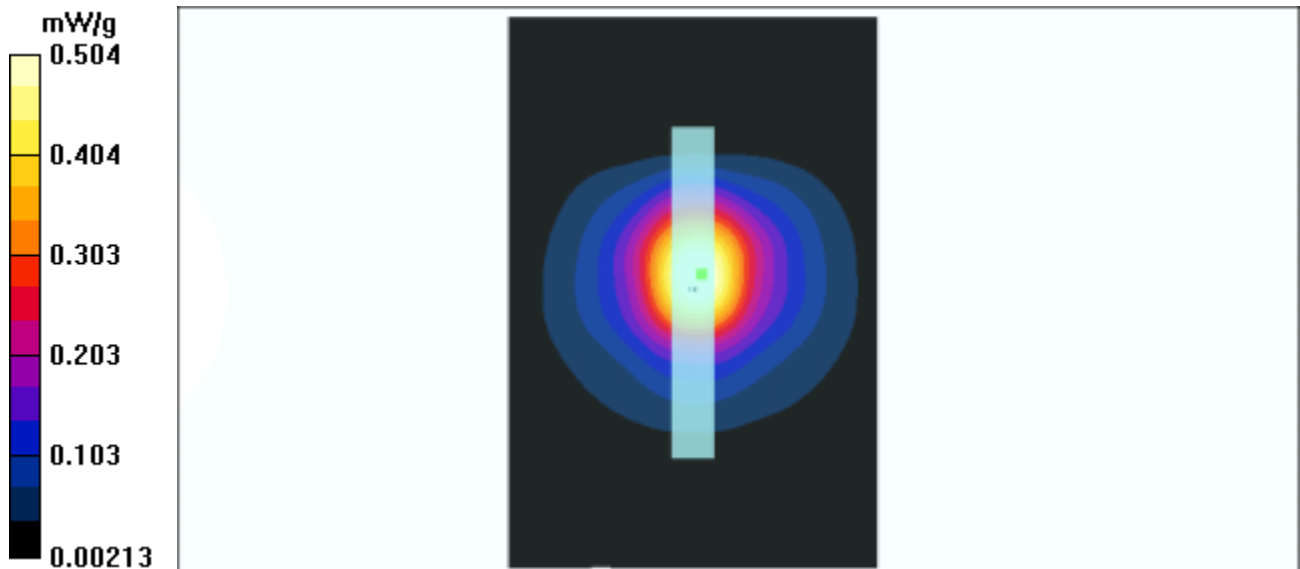
Peak SAR (extrapolated) = 1.16 W/kg

SAR(1 g) = 0.448 mW/g; SAR(10 g) = 0.178 mW/g

Reference Value = 16.5 V/m

Power Drift = -0.2 dB

Maximum value of SAR = 0.504 mW/g



Test Laboratory: Advance Data Technology

NL-5354CB Plus Aries2 11.g DELL INSPIRON3800 Mode 11

**DUT: Atheros 11g CardBus Adapter ; Type: NL-5354CB Plus Aries2 ; Test Channel
Frequency: 2462 MHz**

Communication System: 802.11g ; Frequency: 2462 MHz; Duty Cycle: 1:1; Modulation type: OFDM

Medium: MSL2450 ($\sigma = 2.042$ mho/m, $\epsilon_r = 51.0685$, $\rho = 1000$ kg/m³) ; Liquid level : 155mm

Phantom section: Flat Section ; Separation distance : 0mm(The tip of the EUT to the Phantom)

Antenna type : Internal Antenna ; Air temp. : 22 degrees ; Liquid temp. : 21 degrees

DASY4 Configuration:

- Probe: ET3DV6 - SN1686; ConvF(4.5, 4.5, 4.5); Calibrated: 6/18/2003
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510; Calibrated: 6/2/2003
- Phantom: SAM Twin Phantom V4.0; Type: QD 000 P40 CA; Serial: TP-1150
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

Channel 11/Area Scan (41x61x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 14.2 V/m

Power Drift = -0.02 dB

Maximum value of SAR = 0.393 mW/g

Channel 11/Zoon Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

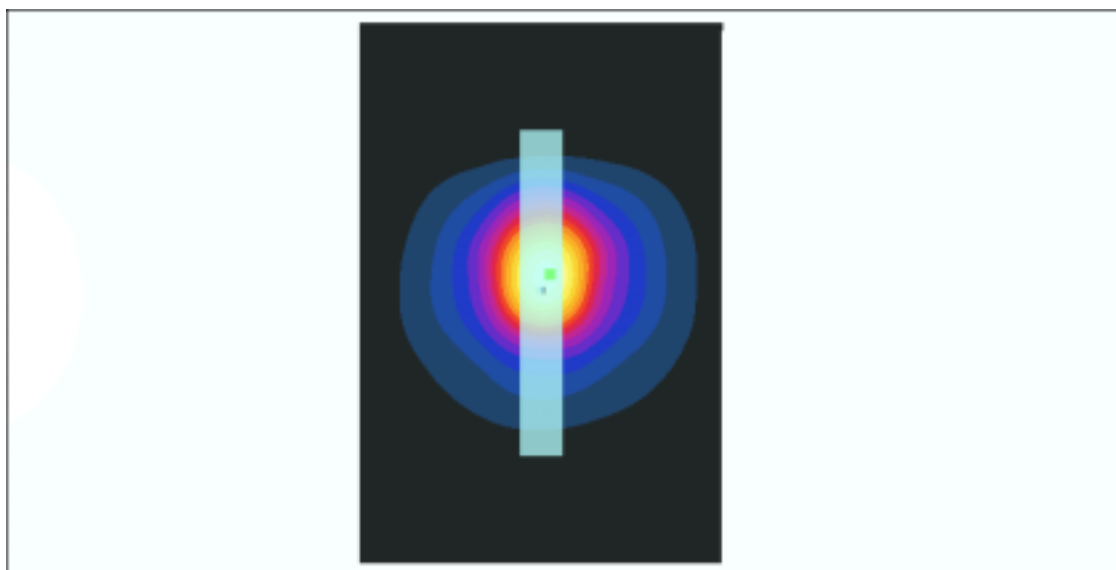
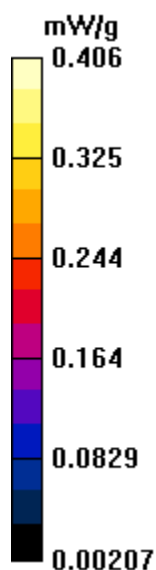
Peak SAR (extrapolated) = 0.95 W/kg

SAR(1 g) = 0.36 mW/g; SAR(10 g) = 0.142 mW/g

Reference Value = 14.2 V/m

Power Drift = -0.02 dB

Maximum value of SAR = 0.406 mW/g



Test Laboratory: Advance Data Technology

NL-5354CB Plus Aries2 11.g DELL D400 Mode 12

**DUT: Atheros 11g CardBus Adapter ; Type: NL-5354CB Plus Aries2 ; Test Channel
Frequency: 2412 MHz**

Communication System: 802.11g ; Frequency: 2412 MHz; Duty Cycle: 1:1; Modulation type: OFDM

Medium: MSL2450 ($\sigma = 1.978$ mho/m, $\epsilon_r = 51.2729$, $\rho = 1000$ kg/m³) ; Liquid level : 155mm

Phantom section: Flat Section ; Separation distance : 5mm(The bottom of the EUT to the Phantom)

Antenna type : Internal Antenna ; Air temp. : 22.0 degrees ; Liquid temp. : 21.0 degrees

DASY4 Configuration:

- Probe: ET3DV6 - SN1686; ConvF(4.5, 4.5, 4.5); Calibrated: 6/18/2003
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510;
- Phantom: SAM Twin Phantom V4.0; Type: QD 000 P40 CA; Serial: TP-1150
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

Channel 1/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 6.55 V/m

Power Drift = -0.2 dB

Maximum value of SAR = 0.316 mW/g

Channel 1/Zoon Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

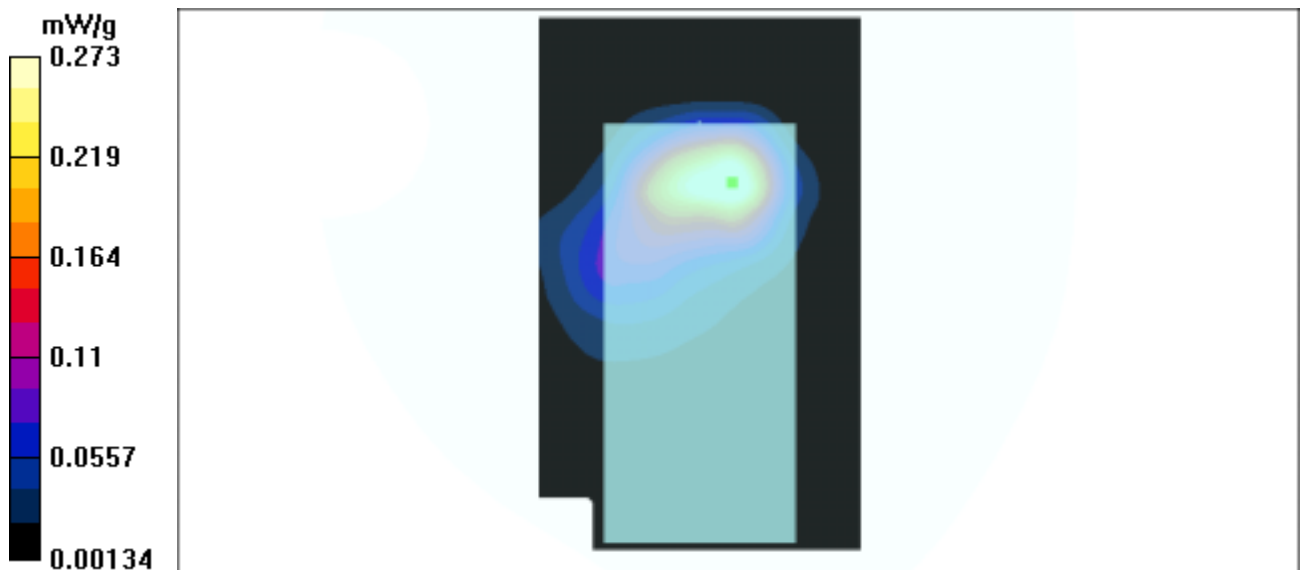
Peak SAR (extrapolated) = 0.659 W/kg

SAR(1 g) = 0.265 mW/g; SAR(10 g) = 0.125 mW/g

Reference Value = 6.55 V/m

Power Drift = -0.2 dB

Maximum value of SAR = 0.273 mW/g



Test Laboratory: Advance Data Technology

NL-5354CB Plus Aries2 11.g DELL D400 Mode 12

**DUT: Atheros 11g CardBus Adapter ; Type: NL-5354CB Plus Aries2 ; Test Channel
Frequency: 2437 MHz**

Communication System: 802.11g ; Frequency: 2437 MHz; Duty Cycle: 1:1; Modulation type: OFDM

Medium: MSL2450 ($\sigma = 2.01$ mho/m, $\epsilon_r = 51.1701$, $\rho = 1000$ kg/m³) ; Liquid level : 155mm

Phantom section: Flat Section ; Separation distance : 5mm(The bottom of the EUT to the Phantom)

Antenna type : Internal Antenna ; Air temp. : 22.0 degrees ; Liquid temp. : 21.0 degrees

DASY4 Configuration:

- Probe: ET3DV6 - SN1686; ConvF(4.5, 4.5, 4.5); Calibrated: 6/18/2003
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510;
- Phantom: SAM Twin Phantom V4.0; Type: QD 000 P40 CA; Serial: TP-1150
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

Channel 6/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 6.58 V/m

Power Drift = 0.1 dB

Maximum value of SAR = 0.346 mW/g

Channel 6/Zoon Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

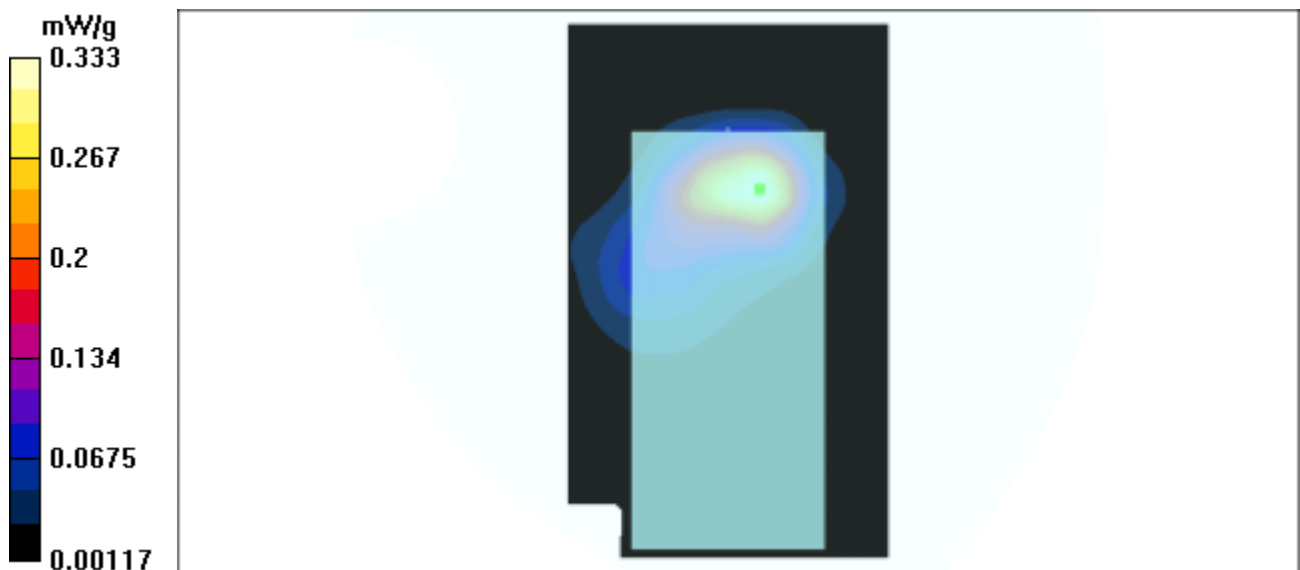
Peak SAR (extrapolated) = 0.809 W/kg

SAR(1 g) = 0.322 mW/g; SAR(10 g) = 0.15 mW/g

Reference Value = 6.58 V/m

Power Drift = 0.1 dB

Maximum value of SAR = 0.333 mW/g



Test Laboratory: Advance Data Technology

NL-5354CB Plus Aries2 11.g DELL D400 Mode 12

**DUT: Atheros 11g CardBus Adapter ; Type: NL-5354CB Plus Aries2 ; Test Channel
Frequency: 2462 MHz**

Communication System: 802.11g ; Frequency: 2462 MHz; Duty Cycle: 1:1; Modulation type: OFDM

Medium: MSL2450 ($\sigma = 2.042$ mho/m, $\epsilon_r = 51.0685$, $\rho = 1000$ kg/m³) ; Liquid level : 155mm

Phantom section: Flat Section ; Separation distance : 5mm(The bottom of the EUT to the Phantom)

Antenna type : Internal Antenna ; Air temp. : 22.0 degrees ; Liquid temp. : 21.0 degrees

DASY4 Configuration:

- Probe: ET3DV6 - SN1686; ConvF(4.5, 4.5, 4.5); Calibrated: 6/18/2003
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510;
- Phantom: SAM Twin Phantom V4.0; Type: QD 000 P40 CA; Serial: TP-1150
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

Channel 11/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 5.56 V/m

Power Drift = -0.1 dB

Maximum value of SAR = 0.263 mW/g

Channel 11/Zoon Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

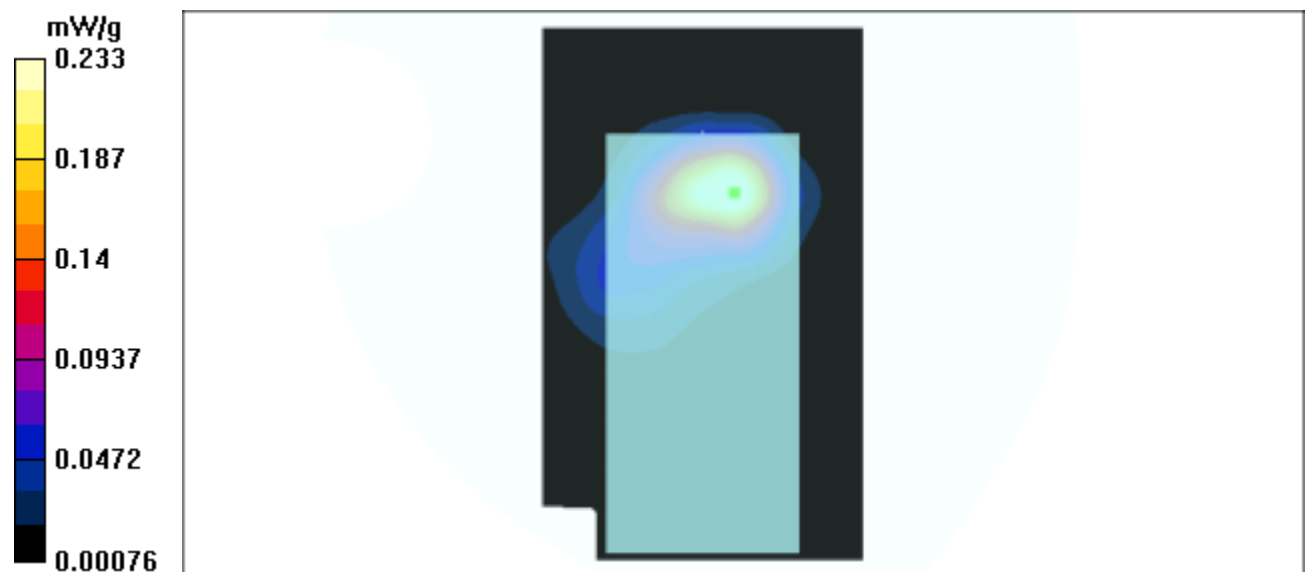
Peak SAR (extrapolated) = 0.565 W/kg

SAR(1 g) = 0.223 mW/g; SAR(10 g) = 0.103 mW/g

Reference Value = 5.56 V/m

Power Drift = -0.1 dB

Maximum value of SAR = 0.233 mW/g



Test Laboratory: Advance Data Technology

NL-5354CB Plus Aries2 11.g DELL D400 Mode 13

**DUT: Atheros 11g CardBus Adapter ; Type: NL-5354CB Plus Aries2 ; Test Channel
Frequency: 2412 MHz**

Communication System: 802.11g ; Frequency: 2412 MHz; Duty Cycle: 1:1; Modulation type: OFDM

Medium: MSL2450 ($\sigma = 1.978$ mho/m, $\epsilon_r = 51.2729$, $\rho = 1000$ kg/m³) ; Liquid level : 155mm

Phantom section: Flat Section ; Separation distance : 0mm(The tip of the EUT to the Phantom)

Antenna type : Internal Antenna ; Air temp. : 22 degrees ; Liquid temp. : 21 degrees

DASY4 Configuration:

- Probe: ET3DV6 - SN1686; ConvF(4.5, 4.5, 4.5); Calibrated: 6/18/2003
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510; Calibrated: 6/2/2003
- Phantom: SAM Twin Phantom V4.0; Type: QD 000 P40 CA; Serial: TP-1150
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

Channel 1/Area Scan (41x61x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 14.3 V/m

Power Drift = -0.08 dB

Maximum value of SAR = 0.414 mW/g

Channel 1/Zoon Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

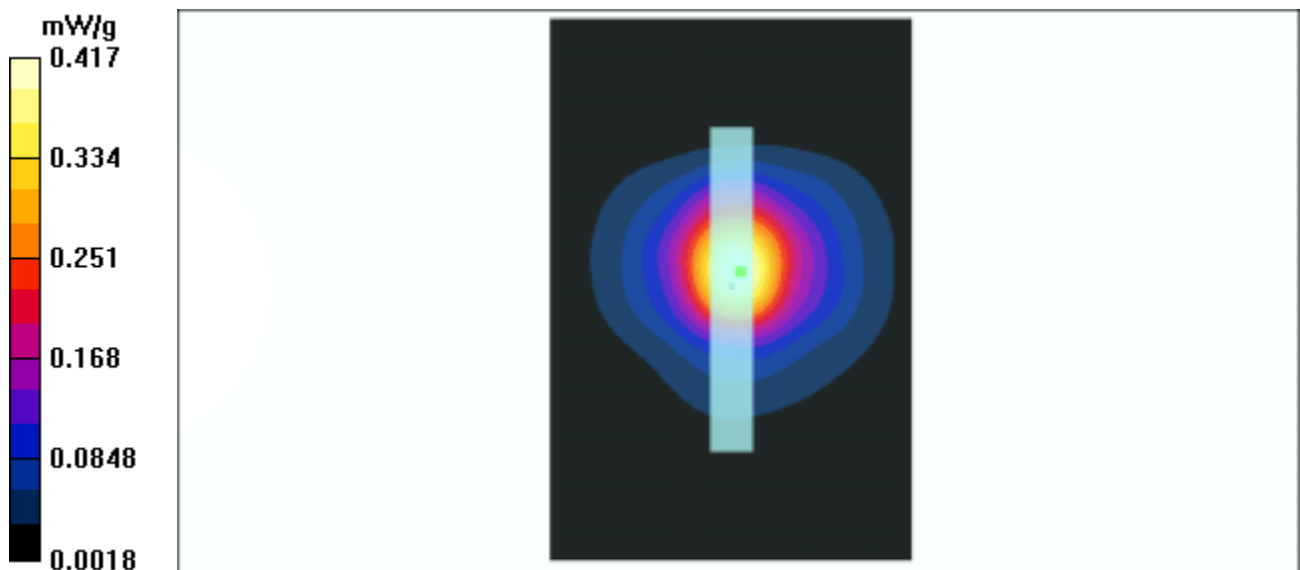
Peak SAR (extrapolated) = 0.976 W/kg

SAR(1 g) = 0.372 mW/g; SAR(10 g) = 0.147 mW/g

Reference Value = 14.3 V/m

Power Drift = -0.08 dB

Maximum value of SAR = 0.417 mW/g



Test Laboratory: Advance Data Technology

NL-5354CB Plus Aries2 11.g DELL D400 Mode 13

**DUT: Atheros 11g CardBus Adapter ; Type: NL-5354CB Plus Aries2 ; Test Channel
Frequency: 2437 MHz**

Communication System: 802.11g ; Frequency: 2437 MHz; Duty Cycle: 1:1; Modulation type: OFDM

Medium: MSL2450 ($\sigma = 2.01$ mho/m, $\epsilon_r = 51.1701$, $\rho = 1000$ kg/m³) ; Liquid level : 155mm

Phantom section: Flat Section ; Separation distance : 0mm(The tip of the EUT to the Phantom)

Antenna type : Internal Antenna ; Air temp. : 22 degrees ; Liquid temp. : 21 degrees

DASY4 Configuration:

- Probe: ET3DV6 - SN1686; ConvF(4.5, 4.5, 4.5); Calibrated: 6/18/2003
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510; Calibrated: 6/2/2003
- Phantom: SAM Twin Phantom V4.0; Type: QD 000 P40 CA; Serial: TP-1150
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

Channel 6/Area Scan (41x61x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 15.9 V/m

Power Drift = -0.07 dB

Maximum value of SAR = 0.501 mW/g

Channel 6/Zoon Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

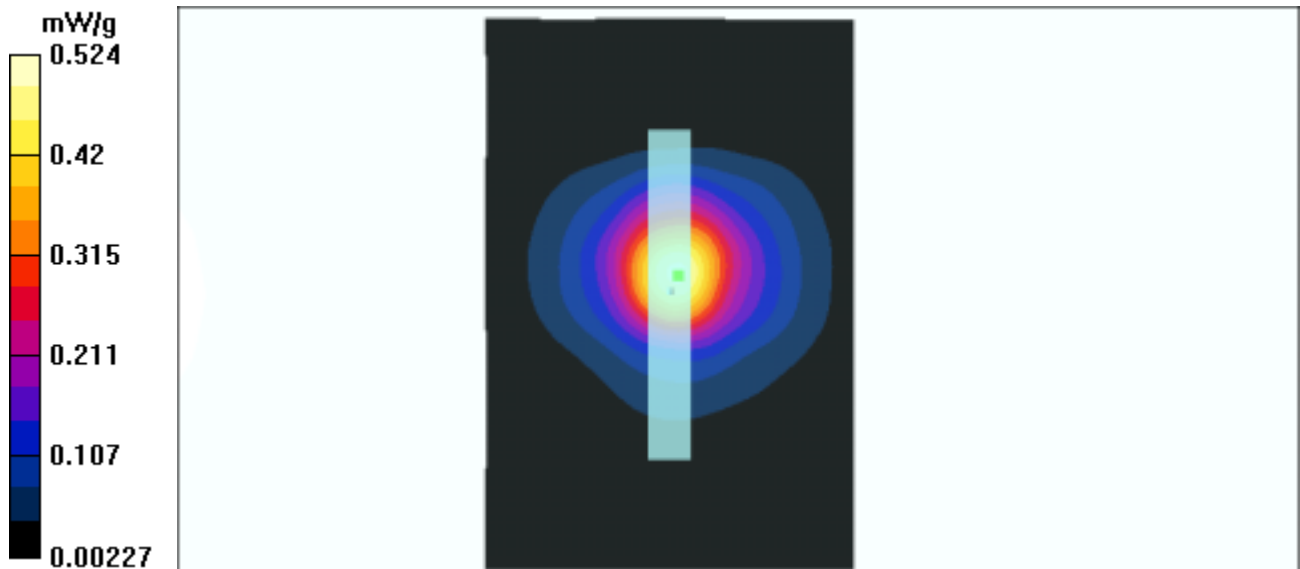
Peak SAR (extrapolated) = 1.22 W/kg

SAR(1 g) = 0.466 mW/g; SAR(10 g) = 0.183 mW/g

Reference Value = 15.9 V/m

Power Drift = -0.07 dB

Maximum value of SAR = 0.524 mW/g



Test Laboratory: Advance Data Technology

NL-5354CB Plus Aries2 11.g DELL D400 Mode 13

**DUT: Atheros 11g CardBus Adapter ; Type: NL-5354CB Plus Aries2 ; Test Channel
Frequency: 2462 MHz**

Communication System: 802.11g ; Frequency: 2462 MHz; Duty Cycle: 1:1; Modulation type: OFDM

Medium: MSL2450 ($\sigma = 2.042$ mho/m, $\epsilon_r = 51.0685$, $\rho = 1000$ kg/m³) ; Liquid level : 155mm

Phantom section: Flat Section ; Separation distance : 0mm(The tip of the EUT to the Phantom)

Antenna type : Internal Antenna ; Air temp. : 22 degrees ; Liquid temp. : 21 degrees

DASY4 Configuration:

- Probe: ET3DV6 - SN1686; ConvF(4.5, 4.5, 4.5); Calibrated: 6/18/2003
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510; Calibrated: 6/2/2003
- Phantom: SAM Twin Phantom V4.0; Type: QD 000 P40 CA; Serial: TP-1150
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

Channel 11/Area Scan (41x61x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 13.4 V/m

Power Drift = 0.02 dB

Maximum value of SAR = 0.372 mW/g

Channel 11/Zoon Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

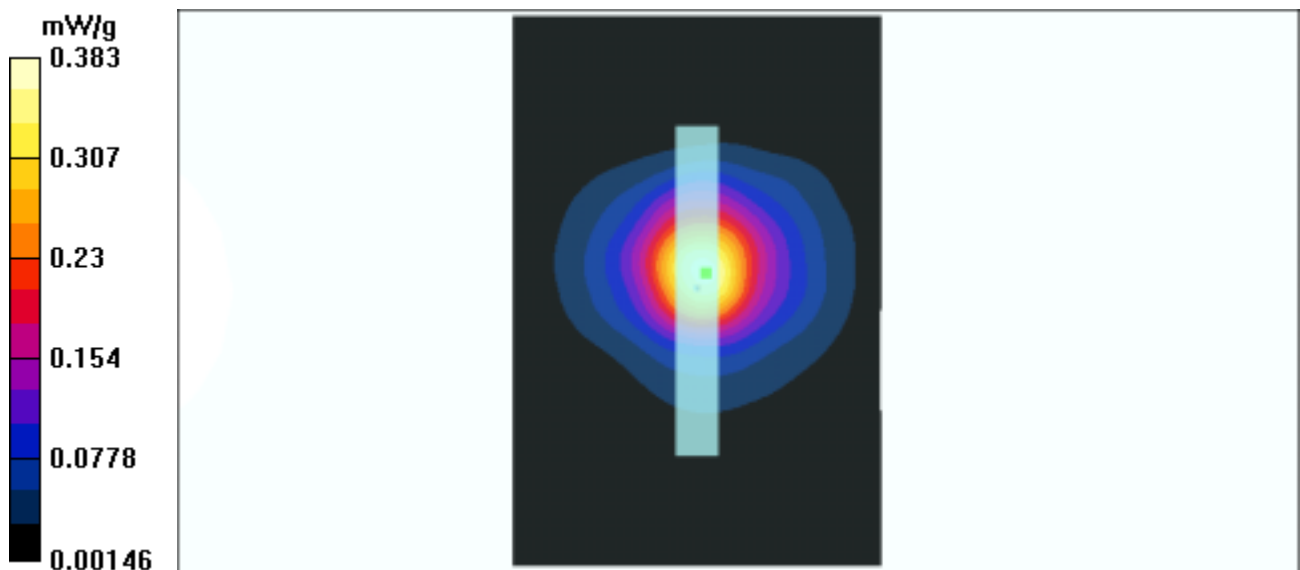
Peak SAR (extrapolated) = 0.894 W/kg

SAR(1 g) = 0.342 mW/g; SAR(10 g) = 0.134 mW/g

Reference Value = 13.4 V/m

Power Drift = 0.02 dB

Maximum value of SAR = 0.383 mW/g



Test Laboratory: Advance Data Technology

NL-5354CB Plus Aries2 11.g DELL C600 Mode 14 Turbo Mode

**DUT: Atheros 11g CardBus Adapter ; Type: NL-5354CB Plus Aries2 ; Test Channel
Frequency: 2437 MHz**

Communication System: 802.11g ; Frequency: 2437 MHz; Duty Cycle: 1:1; Modulation type: OFDM

Medium: MSL2450 ($\sigma = 2.01$ mho/m, $\epsilon_r = 51.1701$, $\rho = 1000$ kg/m³) ; Liquid level : 155mm

Phantom section: Flat Section ; Separation distance : 0mm(The tip of the EUT to the Phantom)

Antenna type : Internal Antenna ; Air temp. : 22 degrees ; Liquid temp. : 21 degrees

DASY4 Configuration:

- Probe: ET3DV6 - SN1686; ConvF(4.5, 4.5, 4.5); Calibrated: 6/18/2003
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510; Calibrated: 6/2/2003
- Phantom: SAM Twin Phantom V4.0; Type: QD 000 P40 CA; Serial: TP-1150
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

Channel 6/Area Scan (41x61x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 15.6 V/m

Power Drift = -0.04 dB

Maximum value of SAR = 0.484 mW/g

Channel 6/Zoon Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

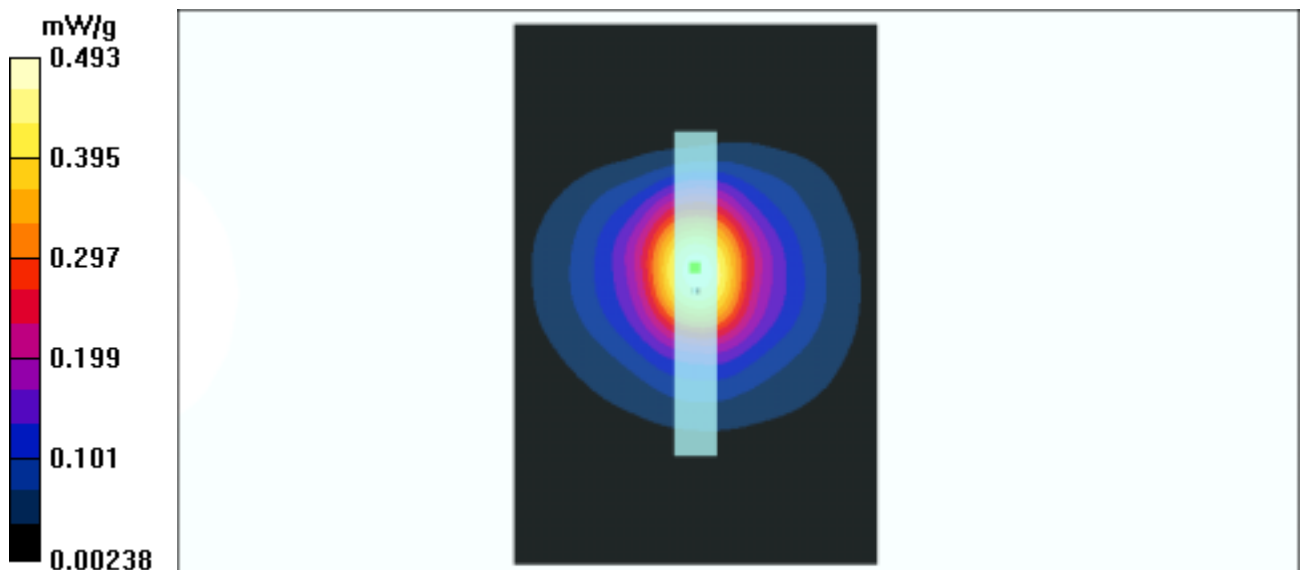
Peak SAR (extrapolated) = 1.2 W/kg

SAR(1 g) = 0.447 mW/g; SAR(10 g) = 0.184 mW/g

Reference Value = 15.6 V/m

Power Drift = -0.04 dB

Maximum value of SAR = 0.493 mW/g



Test Laboratory: Advance Data Technology

NL-5354CB Plus Aries2 11.g DELL INSPIRON3800 Mode 14 Turbo Mode

**DUT: Atheros 11g CardBus Adapter ; Type: NL-5354CB Plus Aries2 ; Test Channel
Frequency: 2437 MHz**

Communication System: 802.11g ; Frequency: 2437 MHz; Duty Cycle: 1:1; Modulation type: OFDM

Medium: MSL2450 ($\sigma = 2.01$ mho/m, $\epsilon_r = 51.1701$, $\rho = 1000$ kg/m³) ; Liquid level : 155mm

Phantom section: Flat Section ; Separation distance : 0mm(The tip of the EUT to the Phantom)

Antenna type : Internal Antenna ; Air temp. : 22 degrees ; Liquid temp. : 21 degrees

DASY4 Configuration:

- Probe: ET3DV6 - SN1686; ConvF(4.5, 4.5, 4.5); Calibrated: 6/18/2003
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510; Calibrated: 6/2/2003
- Phantom: SAM Twin Phantom V4.0; Type: QD 000 P40 CA; Serial: TP-1150
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

Channel 6/Area Scan (41x61x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 16.1 V/m

Power Drift = 0.01 dB

Maximum value of SAR = 0.537 mW/g

Channel 6/Zoon Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

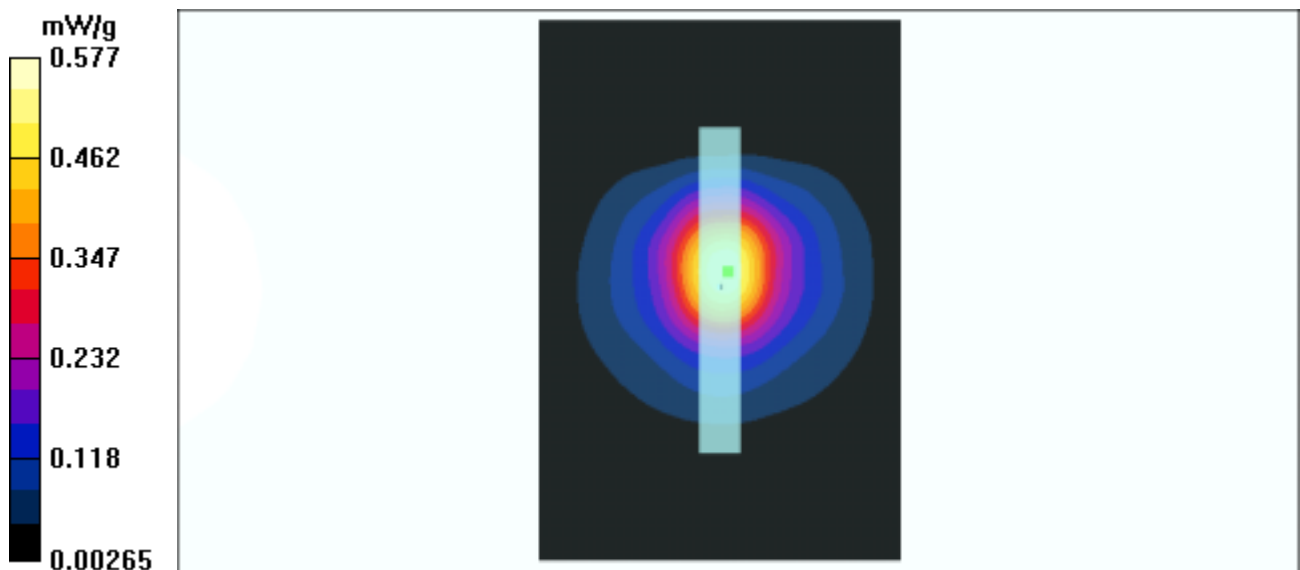
Peak SAR (extrapolated) = 1.33 W/kg

SAR(1 g) = 0.493 mW/g; SAR(10 g) = 0.192 mW/g

Reference Value = 16.1 V/m

Power Drift = 0.01 dB

Maximum value of SAR = 0.577 mW/g



Test Laboratory: Advance Data Technology

NL-5354CB Plus Aries2 11.g DELL D400 Mode 14 Turbo Mode

**DUT: Atheros 11g CardBus Adapter ; Type: NL-5354CB Plus Aries2 ; Test Channel
Frequency: 2437 MHz**

Communication System: 802.11g ; Frequency: 2437 MHz; Duty Cycle: 1:1; Modulation type: OFDM

Medium: MSL2450 ($\sigma = 2.01$ mho/m, $\epsilon_r = 51.1701$, $\rho = 1000$ kg/m³) ; Liquid level : 155mm

Phantom section: Flat Section ; Separation distance : 0mm(The tip of the EUT to the Phantom)

Antenna type : Internal Antenna ; Air temp. : 22 degrees ; Liquid temp. : 21 degrees

DASY4 Configuration:

- Probe: ET3DV6 - SN1686; ConvF(4.5, 4.5, 4.5); Calibrated: 6/18/2003
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510; Calibrated: 6/2/2003
- Phantom: SAM Twin Phantom V4.0; Type: QD 000 P40 CA; Serial: TP-1150
- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

Channel 6/Area Scan (41x61x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 15.8 V/m

Power Drift = 0.2 dB

Maximum value of SAR = 0.537 mW/g

Channel 6/Zoon Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

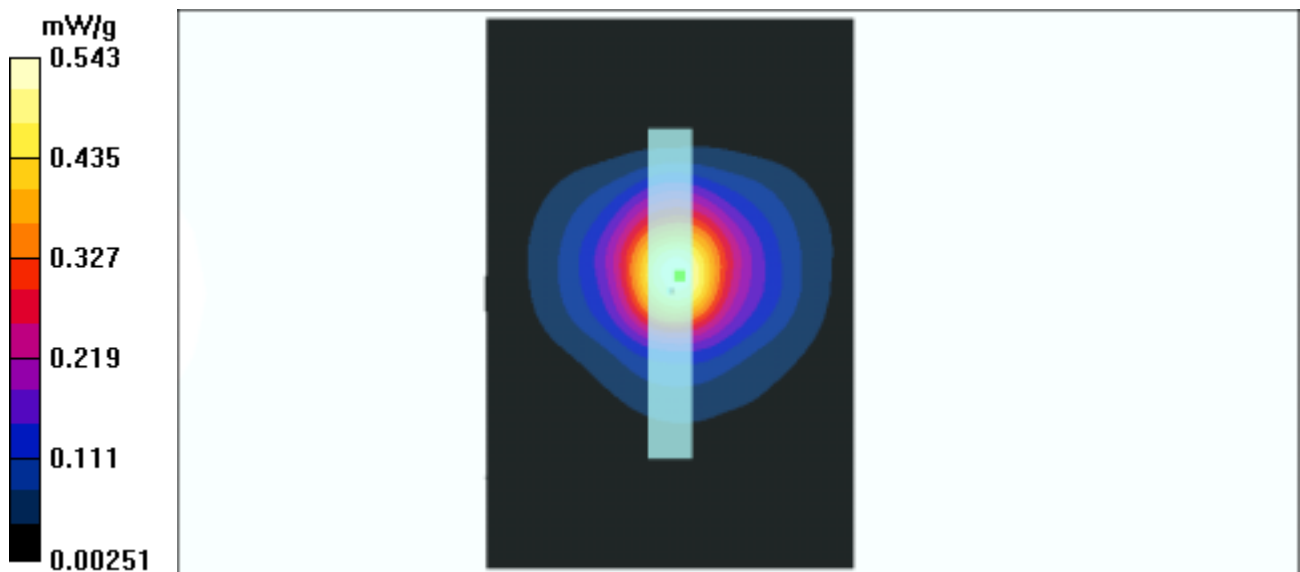
Peak SAR (extrapolated) = 1.24 W/kg

SAR(1 g) = 0.48 mW/g; SAR(10 g) = 0.19 mW/g

Reference Value = 15.8 V/m

Power Drift = 0.2 dB

Maximum value of SAR = 0.543 mW/g



Test Laboratory: Advance Data Technology

NL-5354CB Plus Aries2 11.b DELL D400 Mode 7

DUT: Atheros 11g CardBus Adapter ; Type: NL-5354CB Plus Aries2 ; Test Channel
Frequency: 2462 MHz

Communication System: 802.11g ; Frequency: 2462 MHz; Duty Cycle: 1:1; Modulation type: CCK
 Medium: MSL2450 ($\sigma = 2.046$ mho/m, $\epsilon_r = 51.6535$, $\rho = 1000$ kg/m³) ; Liquid level : 155mm

Phantom section: Flat Section ; Separation distance : 5mm(The bottom of the EUT to the Phantom)

Antenna type : Internal Antenna ; Air temp. : 23.0 degrees ; Liquid temp. : 22.0 degrees

DASY4 Configuration:

- Probe: ET3DV6 - SN1686; ConvF(4.5, 4.5, 4.5); Calibrated: 2003/6/18

- Sensor-Surface: 4mm (Mechanical Surface Detection)

- Electronics: DAE3 Sn510;

- Phantom: SAM Twin Phantom V4.0; Type: QD 000 P40 CA; Serial: TP-1150

- Measurement SW: DASY4, V4.1 Build 47; Postprocessing SW: SEMCAD, V1.6 Build 115

Channel 11/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 11 V/m

Power Drift = -0.2 dB

Maximum value of SAR = 1.12 mW/g

Channel 11/Zoon Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Peak SAR (extrapolated) = 2.77 W/kg

SAR(1 g) = 1.02 mW/g; SAR(10 g) = 0.434 mW/g

Reference Value = 11 V/m

Power Drift = -0.2 dB

Maximum value of SAR = 1.05 mW/g

