

Test Laboratory: Advance Data Technology

DWL-AG132 11a Turbo Mode Bottom Mode 3 Ch 1

**DUT: D-Link AirPremier AG DWL-AG132 Wireless USB Adapter ; Type: DWL-AG132 ;
Test Frequency: 5210 MHz**

Communication System: 802.11a ; Frequency: 5210 MHz ; Duty Cycle: 1:1 ; Modulation type: OFDM

Medium: MSL5800 Medium parameters used: $f = 5210$ MHz; $\sigma = 5.36$ mho/m; $\epsilon_r = 47.5$; $\rho = 1000$

kg/m^3 ; Liquid level : 150 mm

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

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

DASY4 Configuration:

- Probe: EX3DV3 - SN3504 ; ConvF(4.29, 4.29, 4.29) ; Calibrated: 2004/2/20
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510 ; Calibrated: 2004/8/17
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.4 Build 3 ; Postprocessing SW: SEMCAD, V1.8 Build 130

f:5210 Turbo Mode/Area Scan (7x11x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.145 mW/g

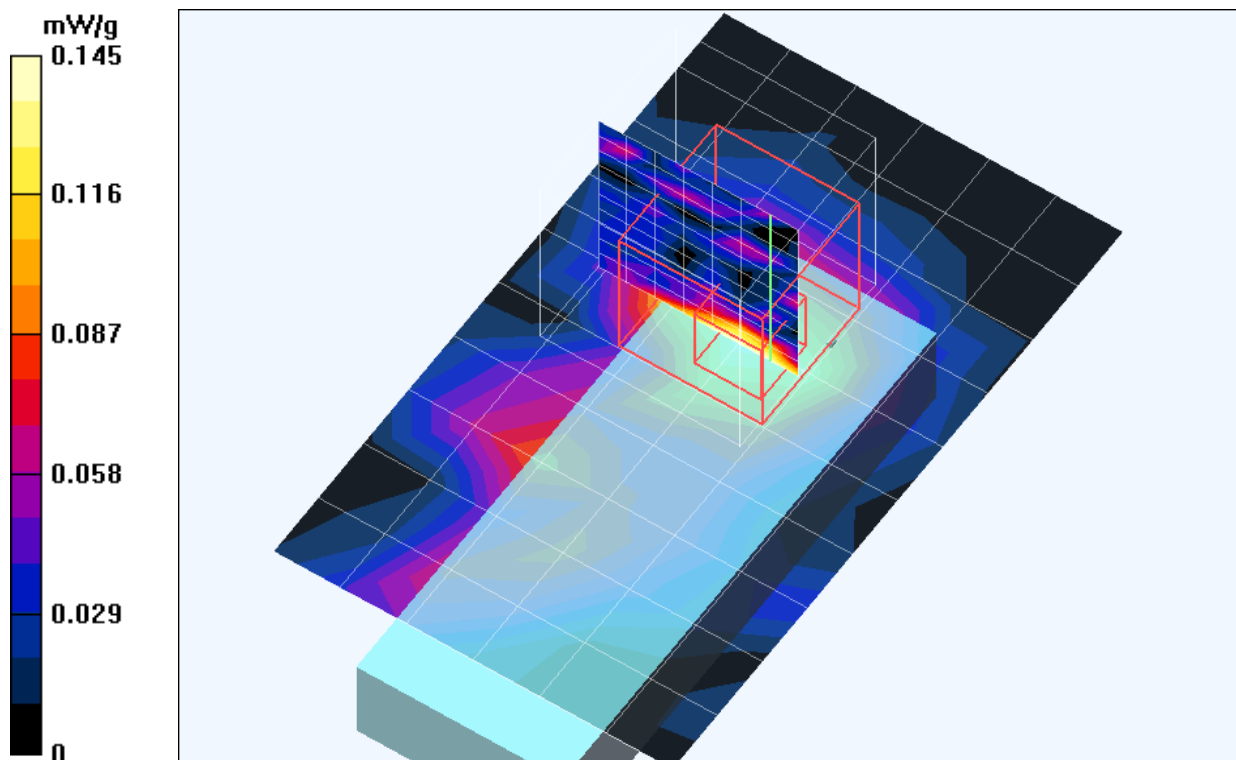
f:5210 Turbo Mode/Zoom Scan (8x8x11)/Cube 0: Measurement grid: $dx=4.3\text{mm}$, $dy=4.3\text{mm}$, $dz=3\text{mm}$

Reference Value = 2.09 V/m; Power Drift = 0.1 dB

Peak SAR (extrapolated) = 19032425.3 W/kg

SAR(1 g) = 0.059 mW/g; SAR(10 g) = 0.013 mW/g

Maximum value of SAR (measured) = 0.167 mW/g



Test Laboratory: Advance Data Technology

DWL-AG132 11a Turbo Mode Bottom Mode 3 Ch 2

DUT: D-Link AirPremier AG DWL-AG132 Wireless USB Adapter ; Type: DWL-AG132 ; Test Frequency: 5250 MHz

Communication System: 802.11a ; Frequency: 5250 MHz ; Duty Cycle: 1:1 ; Modulation type: OFDM

Medium: MSL5800 Medium parameters used: $f = 5250 \text{ MHz}$; $\sigma = 5.42 \text{ mho/m}$; $\epsilon_r = 47.4$; $\rho = 1000$

kg/m^3 ; Liquid level : 150 mm

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

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

DASY4 Configuration:

- Probe: EX3DV3 - SN3504 ; ConvF(4.29, 4.29, 4.29) ; Calibrated: 2004/2/20
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510 ; Calibrated: 2004/8/17
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.4 Build 3 ; Postprocessing SW: SEMCAD, V1.8 Build 130

f:5250 Turbo Mode/Area Scan (7x11x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (measured) = 0.211 mW/g

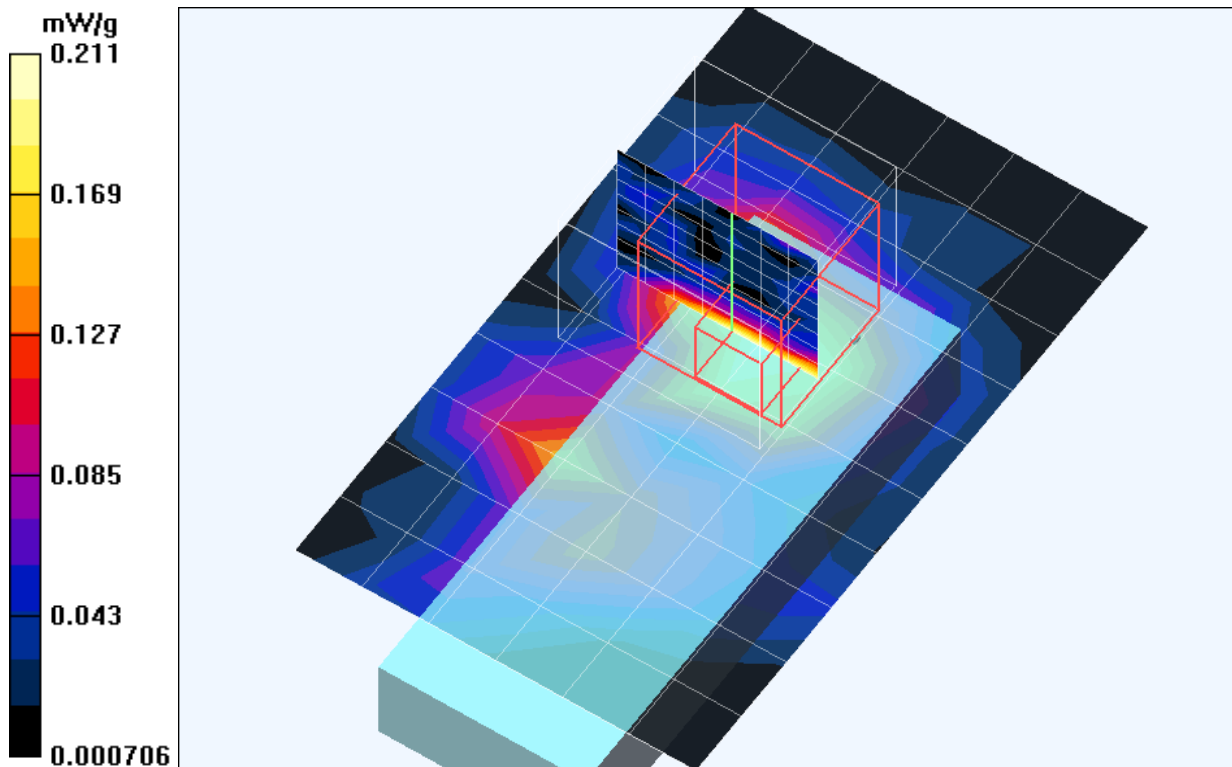
f:5250 Turbo Mode/Zoom Scan (8x8x9)/Cube 0: Measurement grid: $dx=4.3\text{mm}$, $dy=4.3\text{mm}$, $dz=3\text{mm}$

Reference Value = 2.89 V/m; Power Drift = 0.2 dB

Peak SAR (extrapolated) = 148016205616.2 W/kg

SAR(1 g) = 0.082 mW/g; SAR(10 g) = 0.024 mW/g

Maximum value of SAR (measured) = 0.227 mW/g



Test Laboratory: Advance Data Technology

DWL-AG132 11a Turbo Mode Bottom Mode 3 Ch 3

**DUT: D-Link AirPremier AG DWL-AG132 Wireless USB Adapter ; Type: DWL-AG132 ;
Test Frequency: 5290 MHz**

Communication System: 802.11a ; Frequency: 5290 MHz ; Duty Cycle: 1:1 ; Modulation type: OFDM

Medium: MSL5800 Medium parameters used: $f = 5290$ MHz; $\sigma = 5.47$ mho/m; $\epsilon_r = 47.3$; $\rho = 1000$

kg/m³ ; Liquid level : 150 mm

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

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

DASY4 Configuration:

- Probe: EX3DV3 - SN3504 ; ConvF(4.29, 4.29, 4.29) ; Calibrated: 2004/2/20
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510 ; Calibrated: 2004/8/17
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.4 Build 3 ; Postprocessing SW: SEMCAD, V1.8 Build 130

f:5290 Turbo Mode/Area Scan (7x11x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.302 mW/g

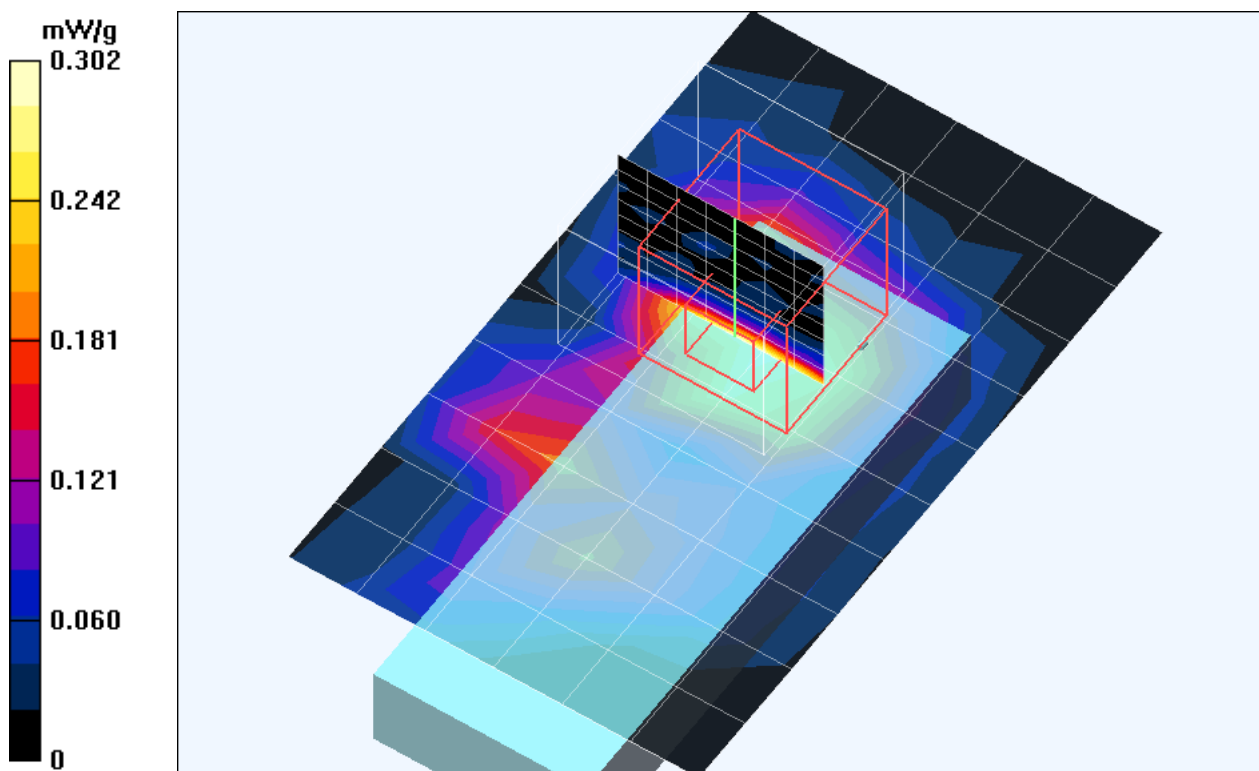
f:5290 Turbo Mode/Zoom Scan (8x8x9)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 3.64 V/m; Power Drift = 0.2 dB

Peak SAR (extrapolated) = 12565447.6 W/kg

SAR(1 g) = 0.099 mW/g; SAR(10 g) = 0.034 mW/g

Maximum value of SAR (measured) = 0.325 mW/g



Test Laboratory: Advance Data Technology

DWL-AG132 11a Turbo Mode Bottom Mode 3 Ch 4

DUT: D-Link AirPremier AG DWL-AG132 Wireless USB Adapter ; Type: DWL-AG132 ; Test Frequency: 5760 MHz

Communication System: 802.11a ; Frequency: 5760 MHz ; Duty Cycle: 1:1 ; Modulation type: OFDM

Medium: MSL5800 Medium parameters used: $f = 5760$ MHz; $\sigma = 6.16$ mho/m; $\epsilon_r = 46.4$; $\rho = 1000$

kg/m³ ; Liquid level : 150 mm

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

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

DASY4 Configuration:

- Probe: EX3DV3 - SN3504 ; ConvF(3.96, 3.96, 3.96) ; Calibrated: 2004/2/20
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510 ; Calibrated: 2004/8/17
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.4 Build 3 ; Postprocessing SW: SEMCAD, V1.8 Build 130

f:5760 Turbo Mode/Area Scan (7x11x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.626 mW/g

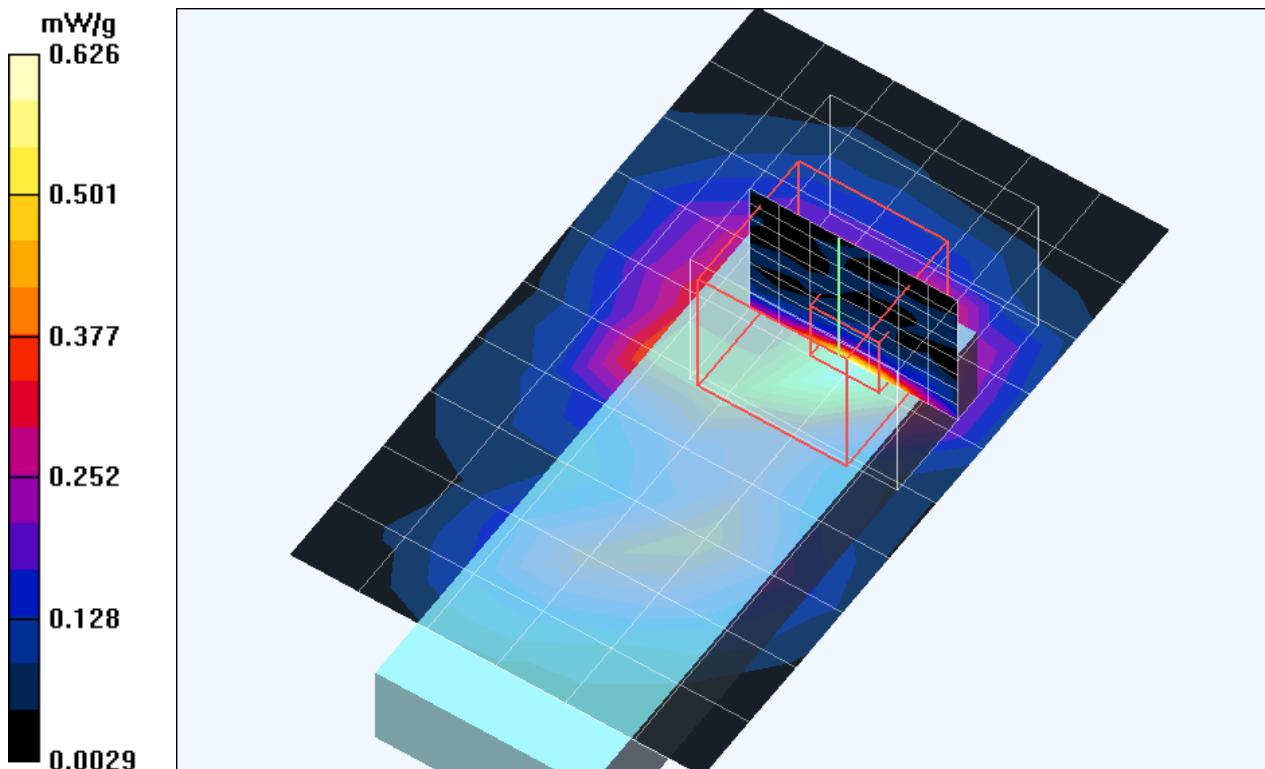
f:5760 Turbo Mode/Zoom Scan (8x8x9)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 5.75 V/m; Power Drift = 0.1 dB

Peak SAR (extrapolated) = 1197064.2 W/kg

SAR(1 g) = 0.177 mW/g; SAR(10 g) = 0.057 mW/g

Maximum value of SAR (measured) = 0.668 mW/g



Test Laboratory: Advance Data Technology

DWL-AG132 11a Turbo Mode Bottom Mode 3 Ch 5

**DUT: D-Link AirPremier AG DWL-AG132 Wireless USB Adapter ; Type: DWL-AG132 ;
Test Frequency: 5800 MHz**

Communication System: 802.11a ; Frequency: 5800 MHz ; Duty Cycle: 1:1 ; Modulation type: OFDM

Medium: MSL5800 Medium parameters used: $f = 5800$ MHz; $\sigma = 6.22$ mho/m; $\epsilon_r = 46.3$; $\rho = 1000$

kg/m³ ; Liquid level : 150 mm

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

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

DASY4 Configuration:

- Probe: EX3DV3 - SN3504 ; ConvF(3.96, 3.96, 3.96) ; Calibrated: 2004/2/20
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510 ; Calibrated: 2004/8/17
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.4 Build 3 ; Postprocessing SW: SEMCAD, V1.8 Build 130

f:5800 Turbo Mode/Area Scan (7x11x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.582 mW/g

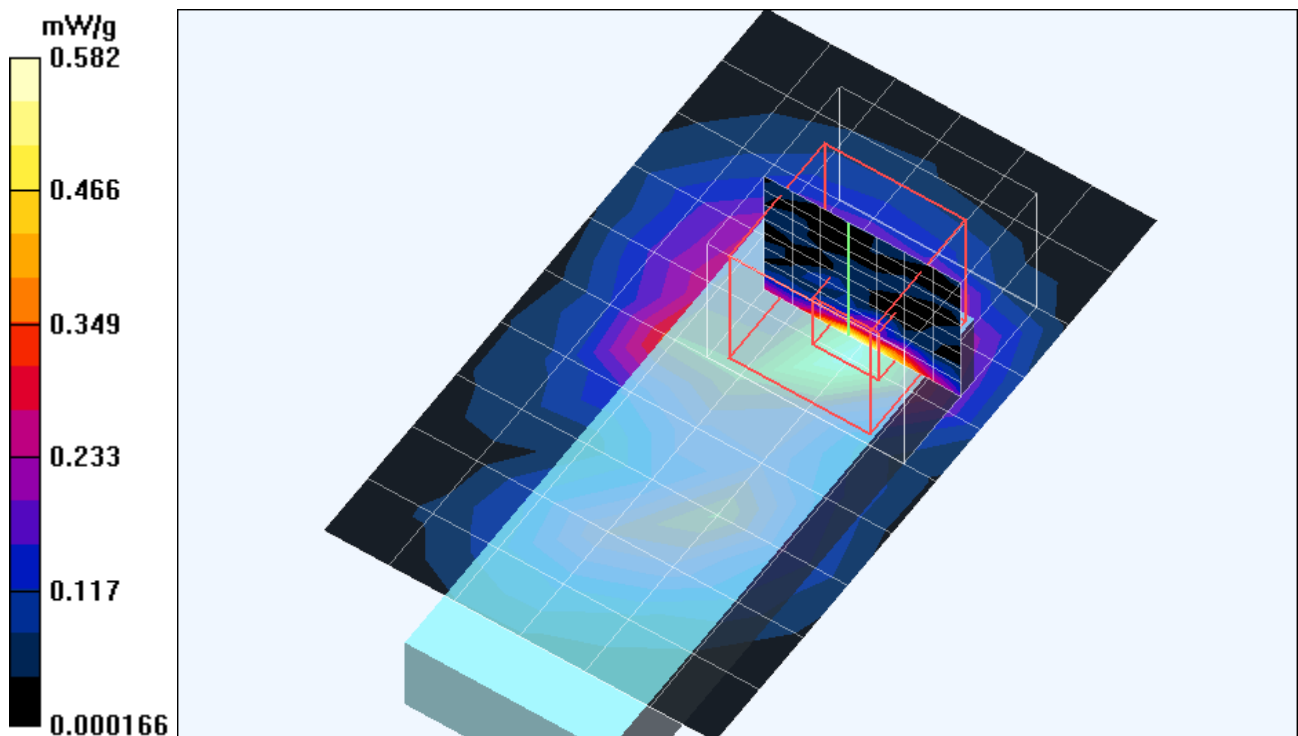
f:5800 Turbo Mode/Zoom Scan (8x8x9)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 5.15 V/m; Power Drift = 0.2 dB

Peak SAR (extrapolated) = 40954725.5 W/kg

SAR(1 g) = 0.126 mW/g; SAR(10 g) = 0.030 mW/g

Maximum value of SAR (measured) = 0.585 mW/g



Test Laboratory: Advance Data Technology

DWL-AG132 11a Turbo Mode Tip Mode 4 Ch 1

**DUT: D-Link AirPremier AG DWL-AG132 Wireless USB Adapter ; Type: DWL-AG132 ;
Test Frequency: 5210 MHz**

Communication System: 802.11a ; Frequency: 5210 MHz; Duty Cycle: 1:1; Modulation type: OFDM

Medium: MSL5800 Medium parameters used: $f = 5210$ MHz; $\sigma = 5.36$ mho/m; $\epsilon_r = 47.5$; $\rho = 1000$

kg/m³ ; Liquid level : 150 mm

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

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

DASY4 Configuration:

- Probe: EX3DV3 - SN3504 ; ConvF(4.29, 4.29, 4.29) ; Calibrated: 2004/2/20
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510; Calibrated: 2004/8/17
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP 1202
- Measurement SW: DASY4, V4.4 Build 3; Postprocessing SW: SEMCAD, V1.8 Build 130

f:5210 Turbo Mode/Area Scan (9x11x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 0.435 mW/g

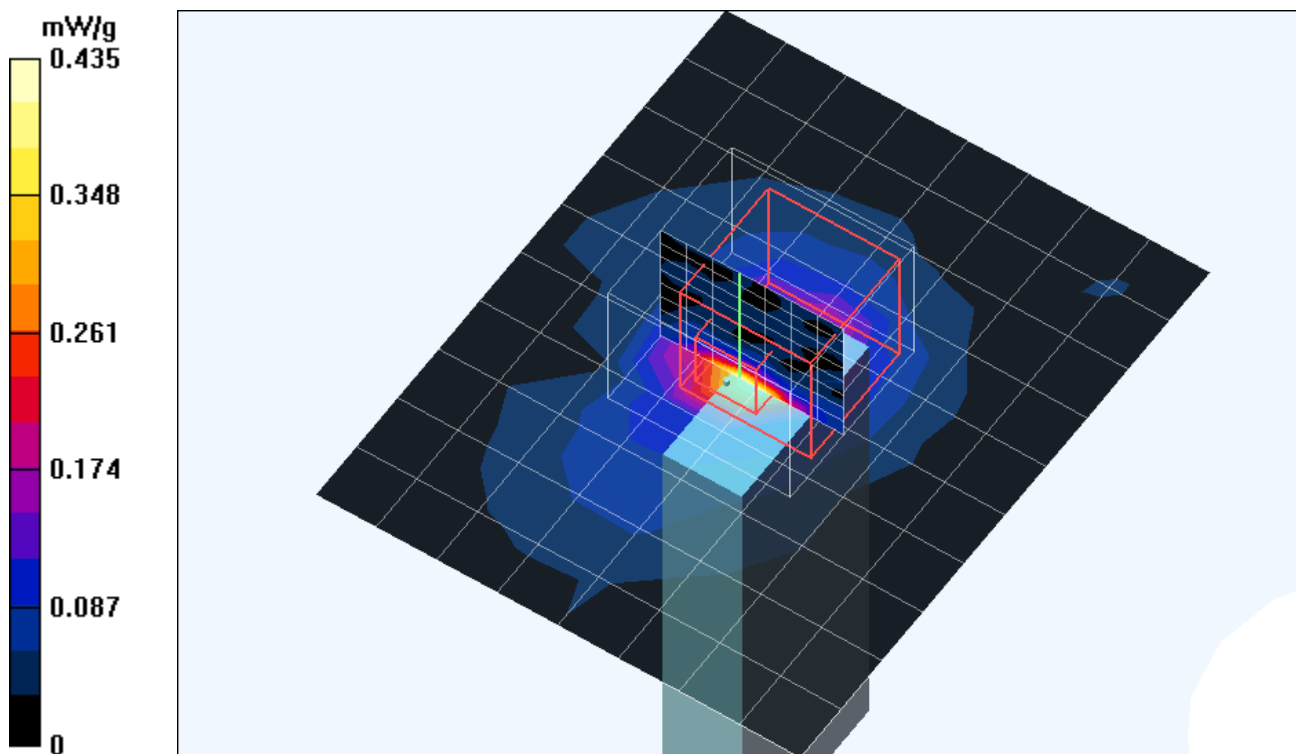
f:5210 Turbo Mode/Zoom Scan (8x8x9)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 9.91 V/m; Power Drift = -0.1 dB

Peak SAR (extrapolated) = 4235382.2 W/kg

SAR(1 g) = 0.108 mW/g; SAR(10 g) = 0.028 mW/g

Maximum value of SAR (measured) = 0.469 mW/g



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DWL-AG132 11a Turbo Mode Tip Mode 4 Ch 2

**DUT: D-Link AirPremier AG DWL-AG132 Wireless USB Adapter ; Type: DWL-AG132 ;
Test Frequency: 5250 MHz**

Communication System: 802.11a ; Frequency: 5250 MHz; Duty Cycle: 1:1; Modulation type: OFDM

Medium: MSL5800 Medium parameters used: $f = 5250$ MHz; $\sigma = 5.42$ mho/m; $\epsilon_r = 47.4$; $\rho = 1000$

kg/m³ ; Liquid level : 150 mm

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

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

DASY4 Configuration:

- Probe: EX3DV3 - SN3504 ; ConvF(4.29, 4.29, 4.29) ; Calibrated: 2004/2/20
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510; Calibrated: 2004/8/17
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP 1202
- Measurement SW: DASY4, V4.4 Build 3; Postprocessing SW: SEMCAD, V1.8 Build 130

f:5250 Turbo Mode/Area Scan (9x11x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 0.765 mW/g

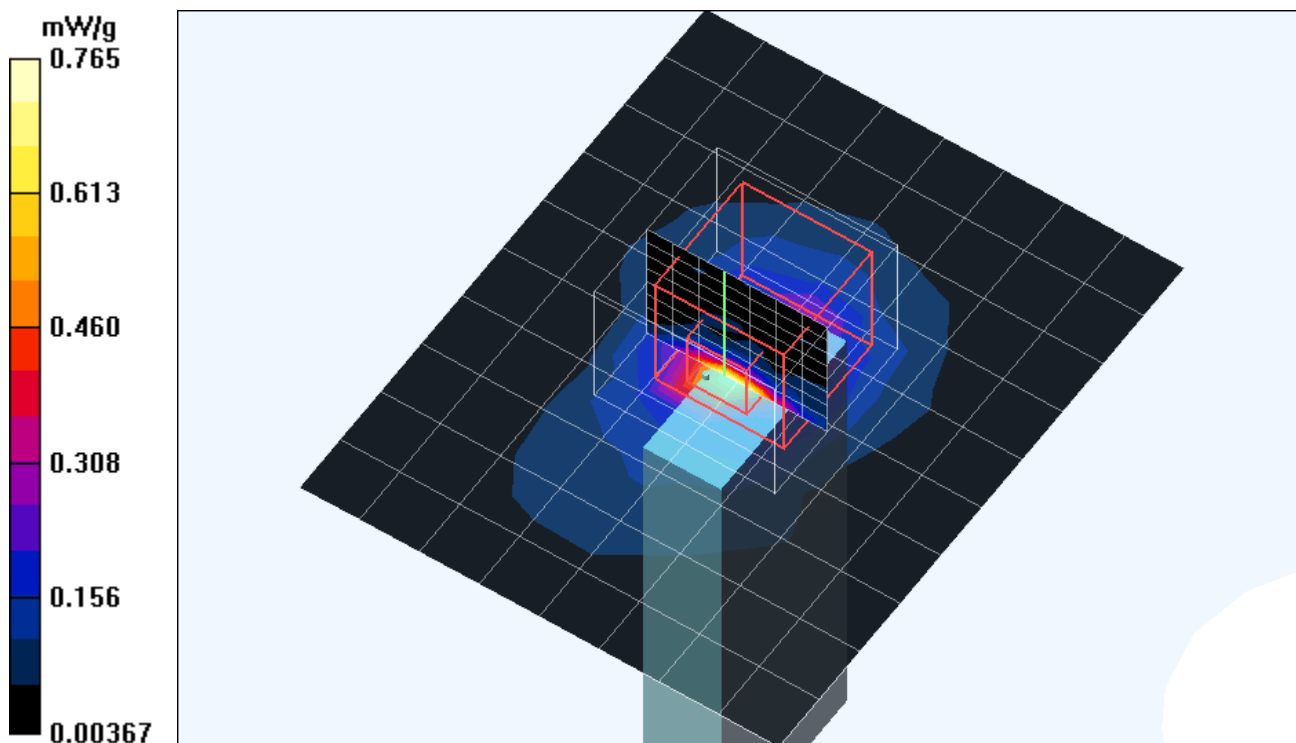
f:5250 Turbo Mode/Zoom Scan (8x8x9)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 13 V/m; Power Drift = -0.1 dB

Peak SAR (extrapolated) = 1642356.8 W/kg

SAR(1 g) = 0.201 mW/g; SAR(10 g) = 0.054 mW/g

Maximum value of SAR (measured) = 0.770 mW/g



Test Laboratory: Advance Data Technology

DWL-AG132 11a Turbo Mode Tip Mode 4 Ch 3

**DUT: D-Link AirPremier AG DWL-AG132 Wireless USB Adapter ; Type: DWL-AG132 ;
Test Frequency: 5290 MHz**

Communication System: 802.11a ; Frequency: 5290 MHz; Duty Cycle: 1:1; Modulation type: OFDM

Medium: MSL5800 Medium parameters used: $f = 5290$ MHz; $\sigma = 5.47$ mho/m; $\epsilon_r = 47.3$; $\rho = 1000$

kg/m³ ; Liquid level : 150 mm

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

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

DASY4 Configuration:

- Probe: EX3DV3 - SN3504 ; ConvF(4.29, 4.29, 4.29) ; Calibrated: 2004/2/20
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510; Calibrated: 2004/8/17
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP 1202
- Measurement SW: DASY4, V4.4 Build 3; Postprocessing SW: SEMCAD, V1.8 Build 130

f:5290 Turbo Mode/Area Scan (9x11x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 1.07 mW/g

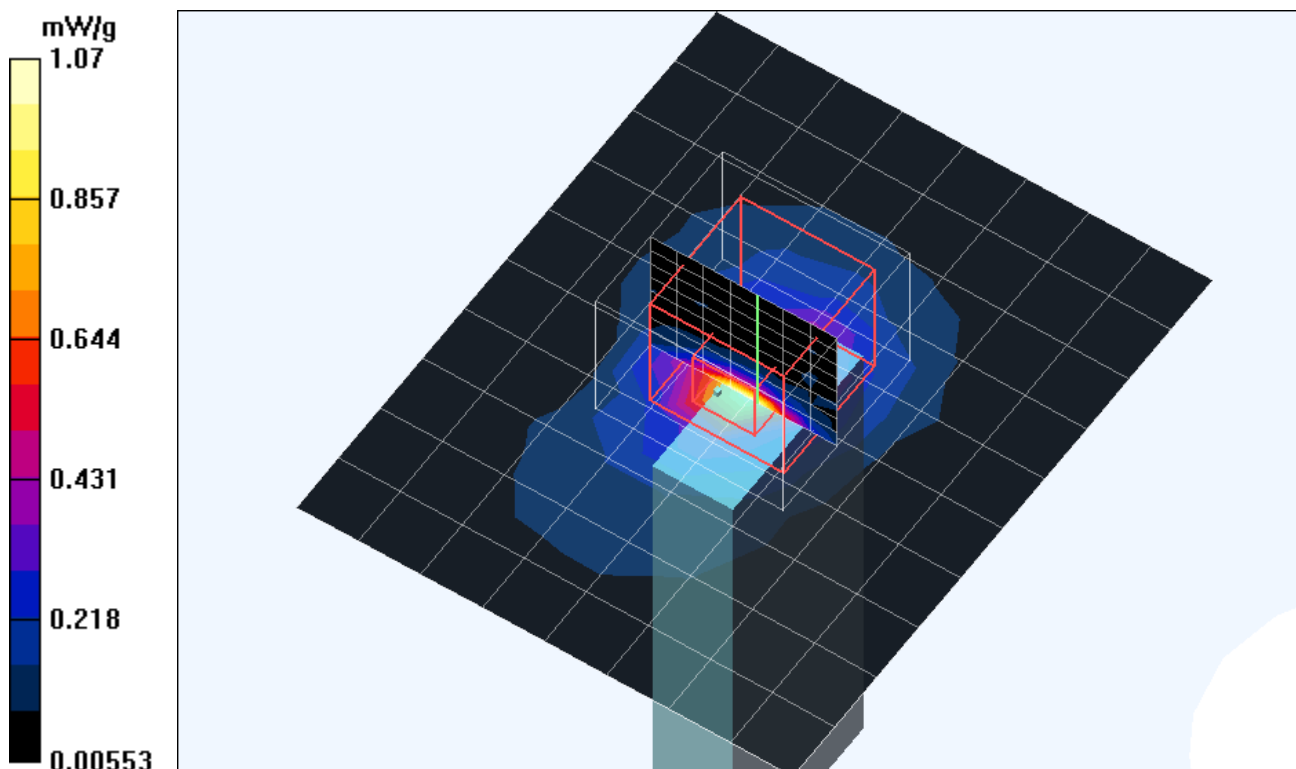
f:5290 Turbo Mode/Zoom Scan (8x8x9)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

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

Peak SAR (extrapolated) = 262.0 W/kg

SAR(1 g) = 0.313 mW/g; SAR(10 g) = 0.087 mW/g

Maximum value of SAR (measured) = 1.14 mW/g



Test Laboratory: Advance Data Technology

DWL-AG132 11a Turbo Mode Tip Mode 4 Ch 4

DUT: D-Link AirPremier AG DWL-AG132 Wireless USB Adapter ; Type: DWL-AG132 ; Test Frequency: 5760 MHz

Communication System: 802.11a ; Frequency: 5760 MHz; Duty Cycle: 1:1; Modulation type: OFDM

Medium: MSL5800 Medium parameters used: $f = 5760$ MHz; $\sigma = 6.16$ mho/m; $\epsilon_r = 46.4$; $\rho = 1000$

kg/m³ ; Liquid level : 150 mm

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

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

DASY4 Configuration:

- Probe: EX3DV3 - SN3504 ; ConvF(3.96, 3.96, 3.96) ; Calibrated: 2004/2/20
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510; Calibrated: 2004/8/17
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP 1202
- Measurement SW: DASY4, V4.4 Build 3; Postprocessing SW: SEMCAD, V1.8 Build 130

f:5760 Turbo Mode/Area Scan (9x11x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 1.7 mW/g

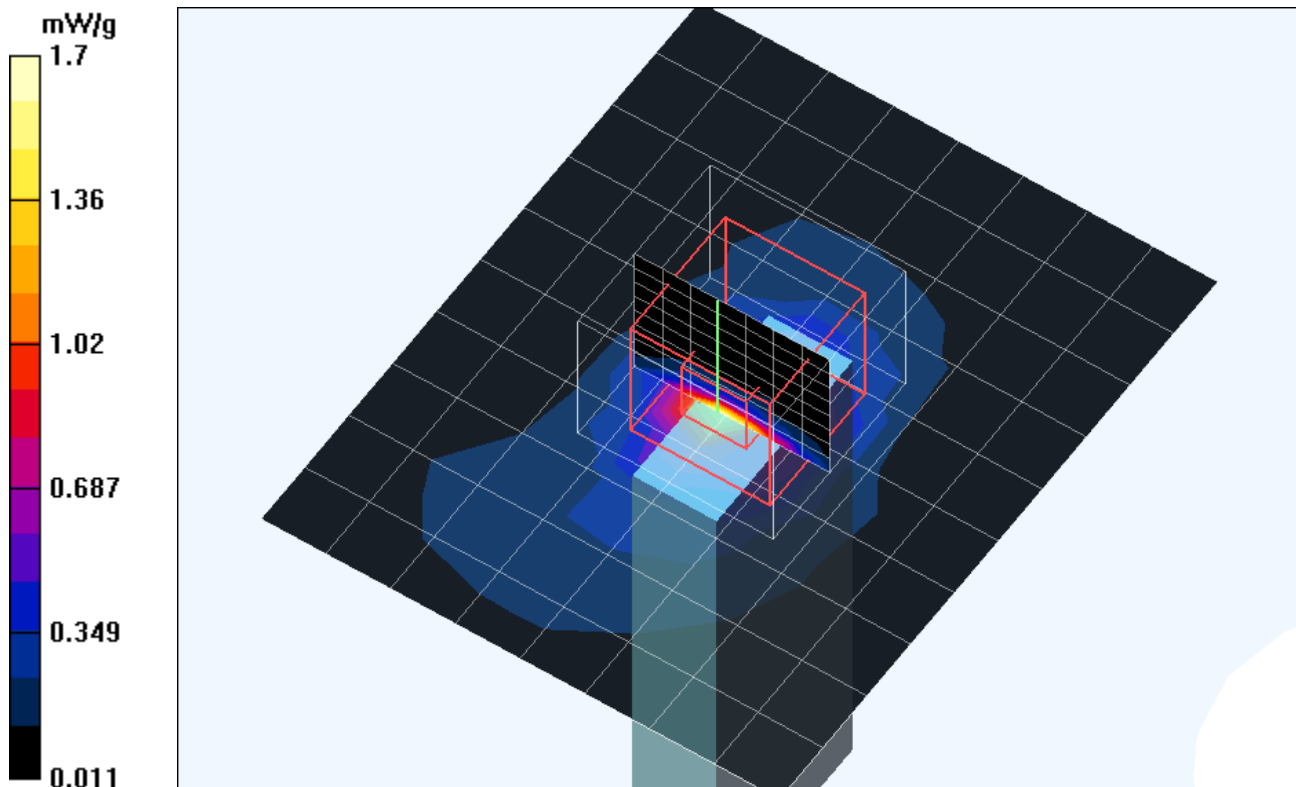
f:5760 Turbo Mode/Zoom Scan (8x8x9)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 17.8 V/m; Power Drift = 0.2 dB

Peak SAR (extrapolated) = 29.9 W/kg

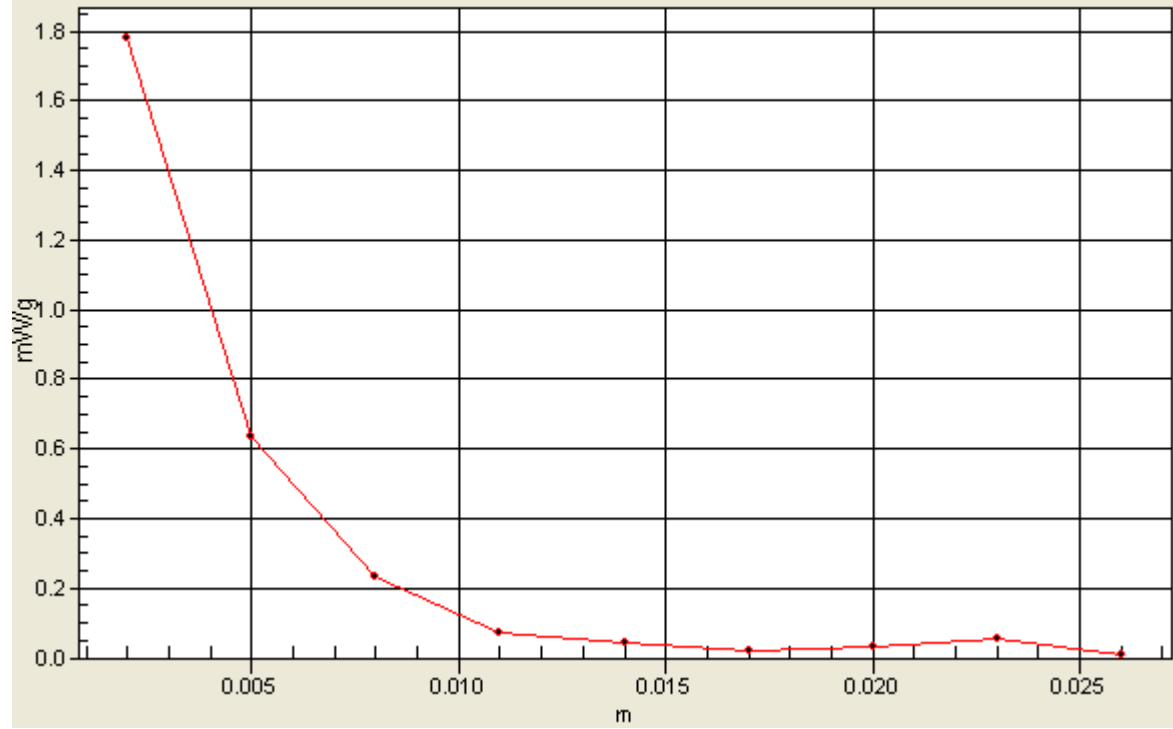
SAR(1 g) = 0.419 mW/g; SAR(10 g) = 0.123 mW/g

Maximum value of SAR (measured) = 1.78 mW/g



1g/10g Averaged SAR

SAR; Zoom Scan: Value Along Z, X=4, Y=3



Test Laboratory: Advance Data Technology

DWL-AG132 11a Turbo Mode Tip Mode 4 Ch 5

**DUT: D-Link AirPremier AG DWL-AG132 Wireless USB Adapter ; Type: DWL-AG132 ;
Test Frequency: 5800 MHz**

Communication System: 802.11a ; Frequency: 5800 MHz; Duty Cycle: 1:1; Modulation type: OFDM

Medium: MSL5800 Medium parameters used: $f = 5800$ MHz; $\sigma = 6.22$ mho/m; $\epsilon_r = 46.3$; $\rho = 1000$

kg/m^3 ; Liquid level : 150 mm

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

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

DASY4 Configuration:

- Probe: EX3DV3 - SN3504 ; ConvF(3.96, 3.96, 3.96) ; Calibrated: 2004/2/20
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510; Calibrated: 2004/8/17
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP 1202
- Measurement SW: DASY4, V4.4 Build 3; Postprocessing SW: SEMCAD, V1.8 Build 130

f:5800 Turbo Mode/Area Scan (9x11x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 1.43 mW/g

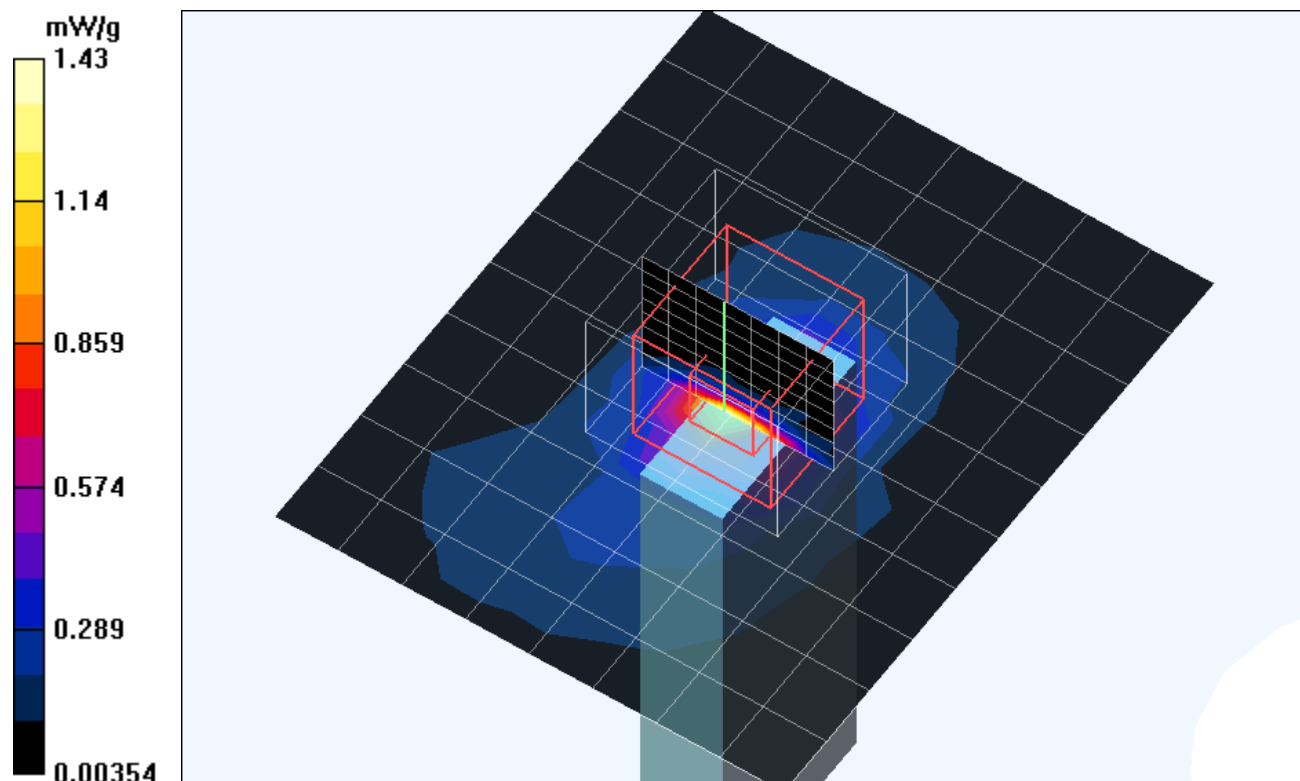
f:5800 Turbo Mode/Zoom Scan (8x8x9)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 16.5 V/m; Power Drift = -0.2 dB

Peak SAR (extrapolated) = 9.71 W/kg

SAR(1 g) = 0.371 mW/g; SAR(10 g) = 0.105 mW/g

Maximum value of SAR (measured) = 1.5 mW/g



Test Laboratory: Advance Data Technology

DWL-AG132 11b Bottom Mode 5 Ch 1

**DUT: D-Link AirPremier AG DWL-AG132 Wireless USB Adapter ; Type: DWL-AG132 ;
Test Frequency: 2412 MHz**

Communication System: 802.11b ; Frequency: 2412 MHz ; Duty Cycle: 1:1 ; Modulation type: CCK
Medium: MSL2450 Medium parameters used: $f = 2412$ MHz; $\sigma = 1.98$ mho/m; $\epsilon_r = 52.3$; $\rho = 1000$

kg/m³ ; Liquid level : 155mm

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

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

DASY4 Configuration:

- Probe: ET3DV6 - SN1687 ; ConvF(4.23, 4.23, 4.23) ; Calibrated: 2004/8/26
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510 ; Calibrated: 2004/8/17
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.3 Build 22 ; Postprocessing SW: SEMCAD, V1.8 Build 127

Low Channel/Area Scan (5x8x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.363 mW/g

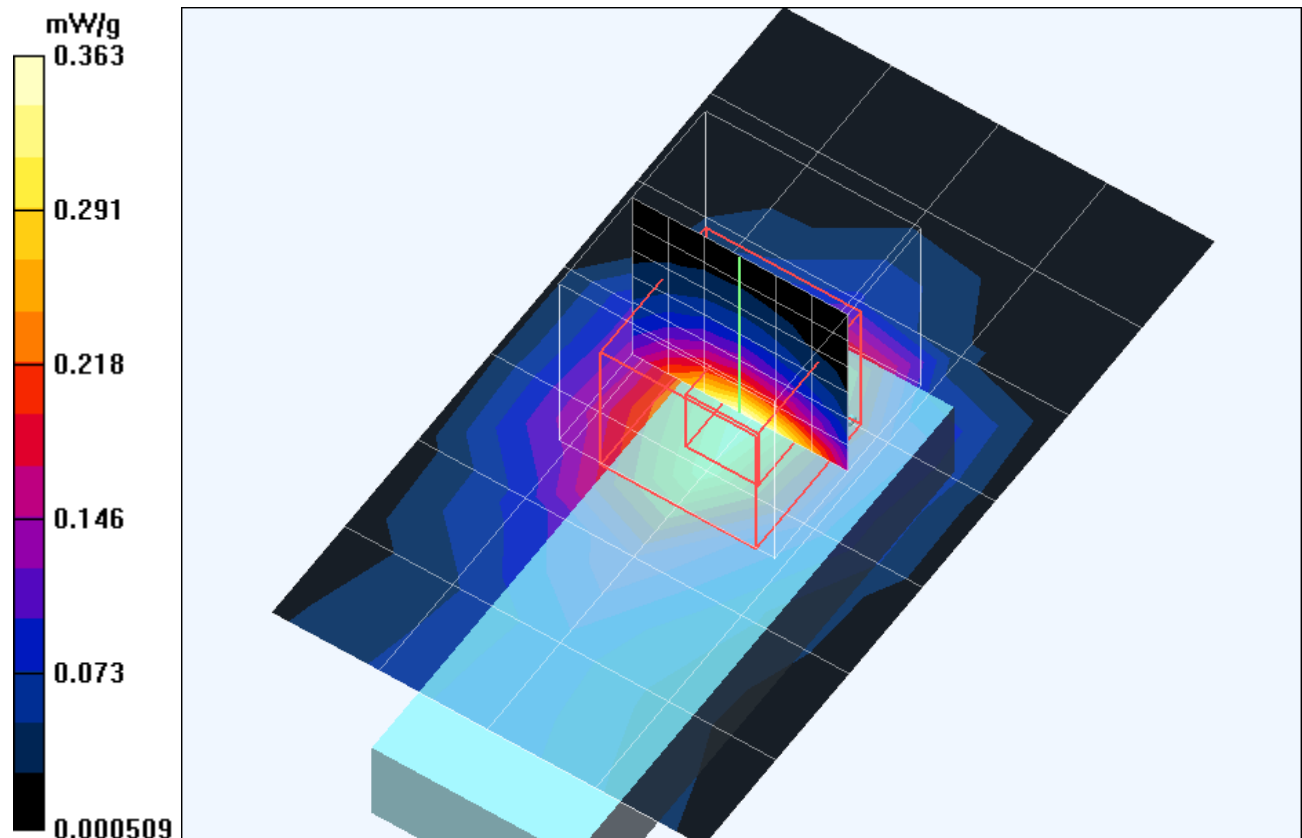
Low Channel/Zoon Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 6.34 V/m; Power Drift = -0.2 dB

Peak SAR (extrapolated) = 0.553 W/kg

SAR(1 g) = 0.341 mW/g; SAR(10 g) = 0.186 mW/g

Maximum value of SAR (measured) = 0.383 mW/g



Test Laboratory: Advance Data Technology

DWL-AG132 11b Bottom Mode 5 Ch 6

**DUT: D-Link AirPremier AG DWL-AG132 Wireless USB Adapter ; Type: DWL-AG132 ;
Test Frequency: 2437 MHz**

Communication System: 802.11b ; Frequency: 2437 MHz ; Duty Cycle: 1:1 ; Modulation type: CCK
Medium: MSL2450 Medium parameters used: $f = 2437$ MHz; $\sigma = 2.02$ mho/m; $\epsilon_r = 52.3$; $\rho = 1000$

kg/m^3 ; Liquid level : 155mm

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

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

DASY4 Configuration:

- Probe: ET3DV6 - SN1687 ; ConvF(4.23, 4.23, 4.23) ; Calibrated: 2004/8/26
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510 ; Calibrated: 2004/8/17
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.3 Build 22 ; Postprocessing SW: SEMCAD, V1.8 Build 127

Middle Channel/Area Scan (5x8x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 0.286 mW/g

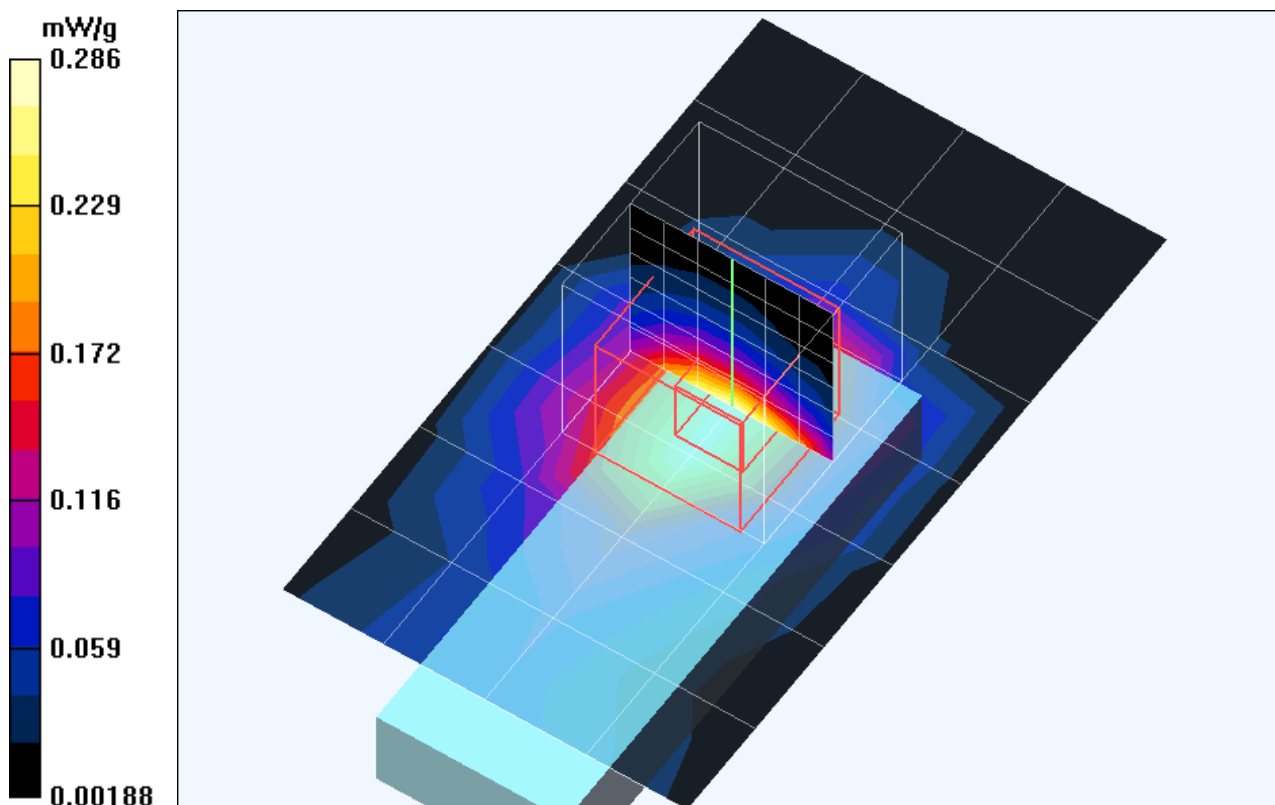
Middle Channel/Zoon Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 5.65 V/m; Power Drift = -0.2 dB

Peak SAR (extrapolated) = 0.449 W/kg

SAR(1 g) = 0.271 mW/g; SAR(10 g) = 0.147 mW/g

Maximum value of SAR (measured) = 0.305 mW/g



Test Laboratory: Advance Data Technology

DWL-AG132 11b Bottom Mode 5 Ch 11

DUT: D-Link AirPremier AG DWL-AG132 Wireless USB Adapter ; Type: DWL-AG132 ; Test Frequency: 2462 MHz

Communication System: 802.11b ; Frequency: 2462 MHz ; Duty Cycle: 1:1 ; Modulation type: CCK
Medium: MSL2450 Medium parameters used: $f = 2462 \text{ MHz}$; $\sigma = 2.05 \text{ mho/m}$; $\epsilon_r = 52.2$; $\rho = 1000$

kg/m^3 ; Liquid level : 155mm

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

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

DASY4 Configuration:

- Probe: ET3DV6 - SN1687 ; ConvF(4.23, 4.23, 4.23) ; Calibrated: 2004/8/26
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510 ; Calibrated: 2004/8/17
- Phantom: SAM 12 ; Type: SAM V4.0 ; Serial: TP 1202
- Measurement SW: DASY4, V4.3 Build 22 ; Postprocessing SW: SEMCAD, V1.8 Build 127

High Channel/Area Scan (5x8x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 0.306 mW/g

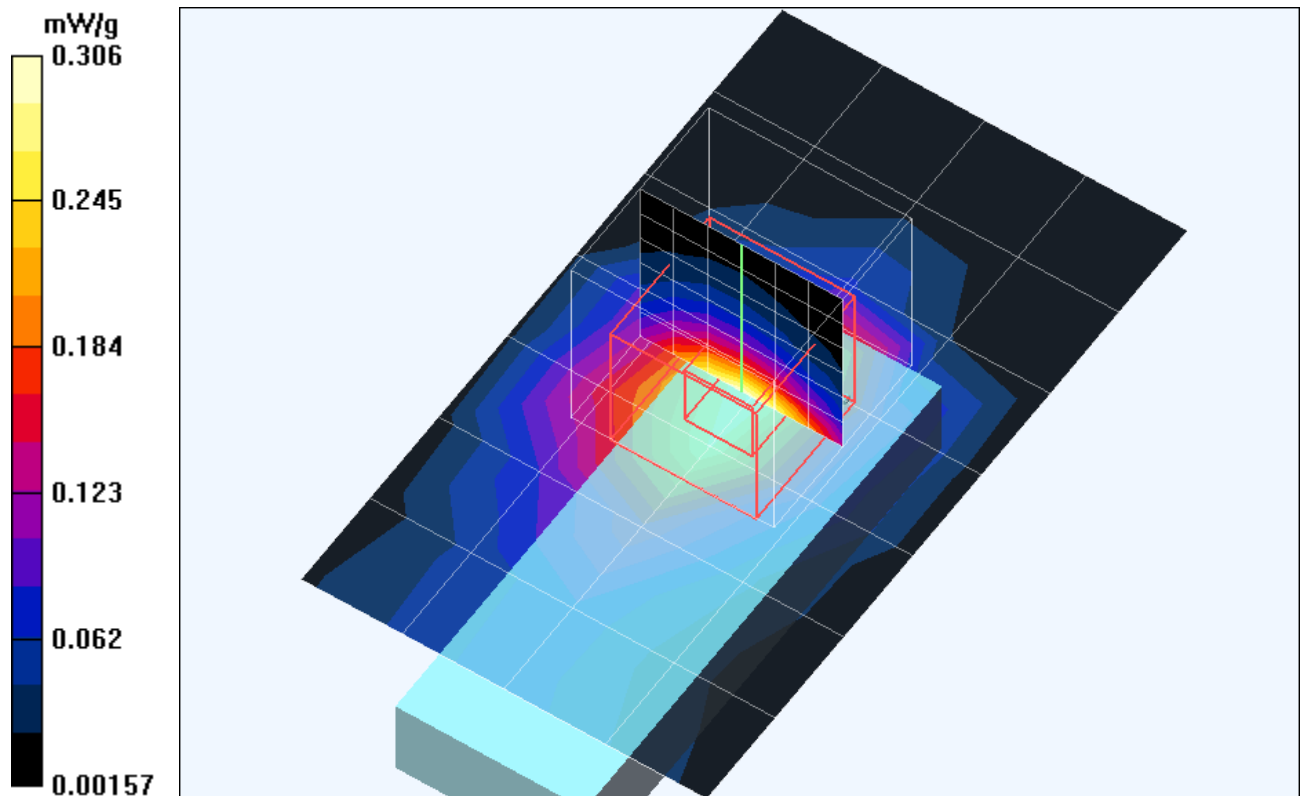
High Channel/Zoon Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 5.81 V/m; Power Drift = -0.2 dB

Peak SAR (extrapolated) = 0.466 W/kg

SAR(1 g) = 0.286 mW/g; SAR(10 g) = 0.156 mW/g

Maximum value of SAR (measured) = 0.321 mW/g



Test Laboratory: Advance Data Technology

DWL-AG132 11b Tip Mode 6 Ch 1

**DUT: D-Link AirPremier AG DWL-AG132 Wireless USB Adapter ; Type: DWL-AG132 ;
Test Frequency: 2412 MHz**

Communication System: 802.11b ; Frequency: 2412 MHz; Duty Cycle: 1:1; Modulation type: CCK
Medium: MSL2450 Medium parameters used: $f = 2412$ MHz; $\sigma = 1.98$ mho/m; $\epsilon_r = 52.3$; $\rho = 1000$

kg/m³ ; Liquid level : 155 mm

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

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

DASY4 Configuration:

- Probe: ET3DV6 - SN1687 ; ConvF(4.23, 4.23, 4.23) ; Calibrated: 2004/8/26
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510; Calibrated: 2004/8/17
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP 1202
- Measurement SW: DASY4, V4.3 Build 22; Postprocessing SW: SEMCAD, V1.8 Build 127

Low Channel/Area Scan (7x7x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.398 mW/g

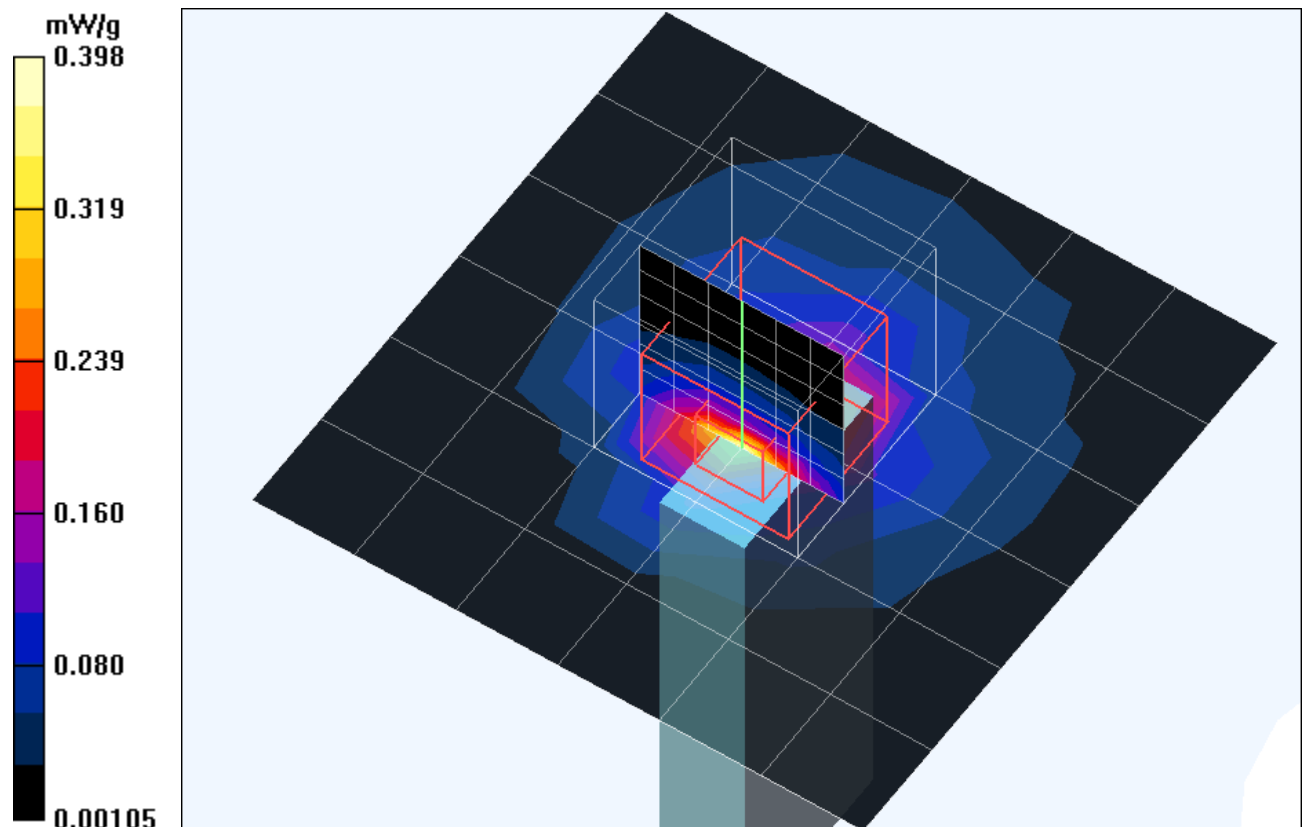
Low Channel/Zoon Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 14.6 V/m; Power Drift = -0.2 dB

Peak SAR (extrapolated) = 0.993 W/kg

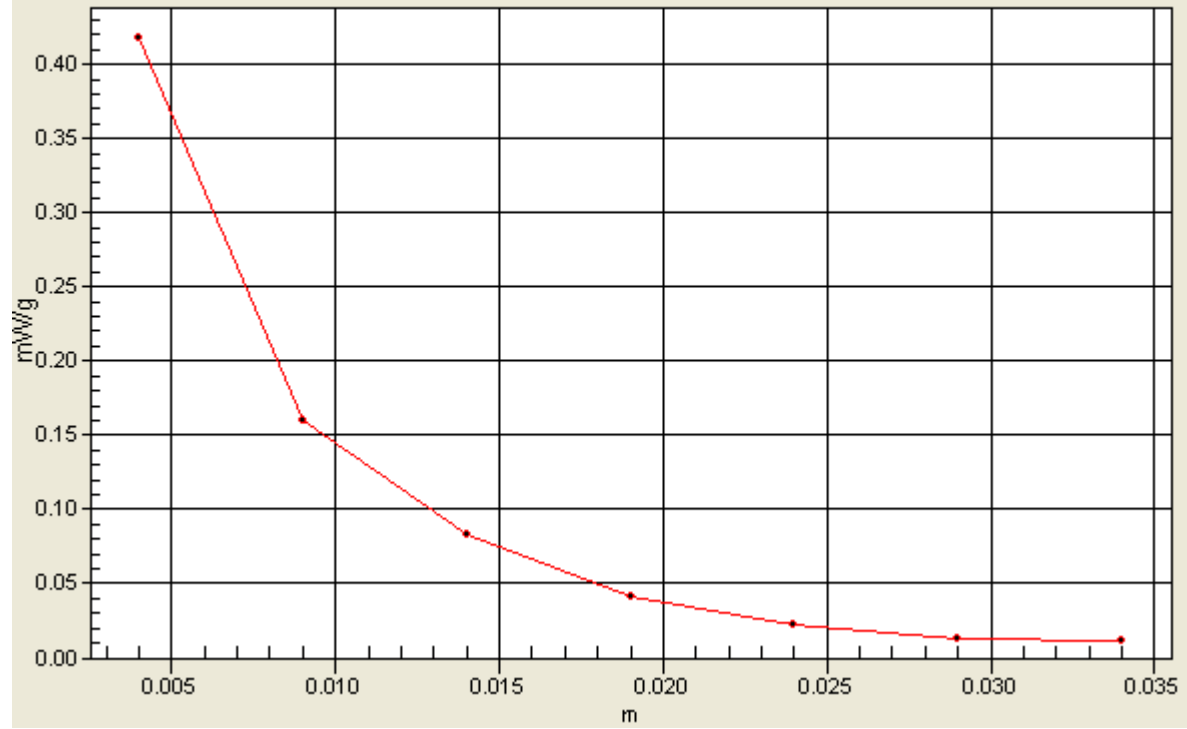
SAR(1 g) = 0.359 mW/g; SAR(10 g) = 0.149 mW/g

Maximum value of SAR (measured) = 0.418 mW/g



1g/10g Averaged SAR

SAR; Zoon Scan: Value Along Z, X=3, Y=2



Test Laboratory: Advance Data Technology

DWL-AG132 11b Tip Mode 6 Ch 6

**DUT: D-Link AirPremier AG DWL-AG132 Wireless USB Adapter ; Type: DWL-AG132 ;
Test Frequency: 2437 MHz**

Communication System: 802.11b ; Frequency: 2437 MHz; Duty Cycle: 1:1; Modulation type: CCK
Medium: MSL2450 Medium parameters used: $f = 2437$ MHz; $\sigma = 2.02$ mho/m; $\epsilon_r = 52.3$; $\rho = 1000$

kg/m³ ; Liquid level : 155 mm

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

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

DASY4 Configuration:

- Probe: ET3DV6 - SN1687 ; ConvF(4.23, 4.23, 4.23) ; Calibrated: 2004/8/26
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510; Calibrated: 2004/8/17
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP 1202
- Measurement SW: DASY4, V4.3 Build 22; Postprocessing SW: SEMCAD, V1.8 Build 127

Middle Channel/Area Scan (7x7x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.339 mW/g

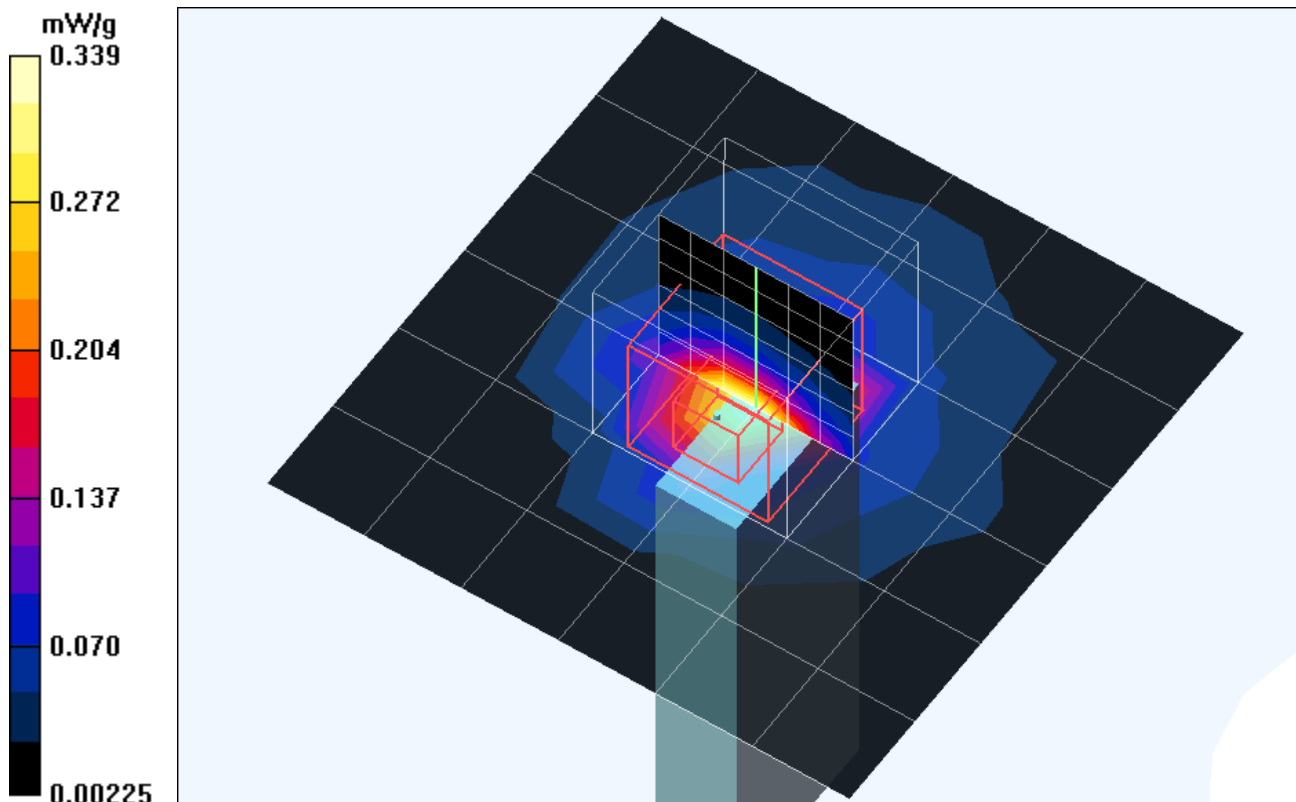
Middle Channel/Zoon Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm,
dz=5mm

Reference Value = 13.4 V/m; Power Drift = -0.2 dB

Peak SAR (extrapolated) = 0.745 W/kg

SAR(1 g) = 0.285 mW/g; SAR(10 g) = 0.119 mW/g

Maximum value of SAR (measured) = 0.312 mW/g



Test Laboratory: Advance Data Technology

DWL-AG132 11b Tip Mode 6 Ch 11

**DUT: D-Link AirPremier AG DWL-AG132 Wireless USB Adapter ; Type: DWL-AG132 ;
Test Frequency: 2462 MHz**

Communication System: 802.11b ; Frequency: 2462 MHz; Duty Cycle: 1:1; Modulation type: CCK
Medium: MSL2450 Medium parameters used: $f = 2462$ MHz; $\sigma = 2.05$ mho/m; $\epsilon_r = 52.2$; $\rho = 1000$

kg/m³ ; Liquid level : 155 mm

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

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

DASY4 Configuration:

- Probe: ET3DV6 - SN1687 ; ConvF(4.23, 4.23, 4.23) ; Calibrated: 2004/8/26
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510; Calibrated: 2004/8/17
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP 1202
- Measurement SW: DASY4, V4.3 Build 22; Postprocessing SW: SEMCAD, V1.8 Build 127

High Channel/Area Scan (7x7x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.377 mW/g

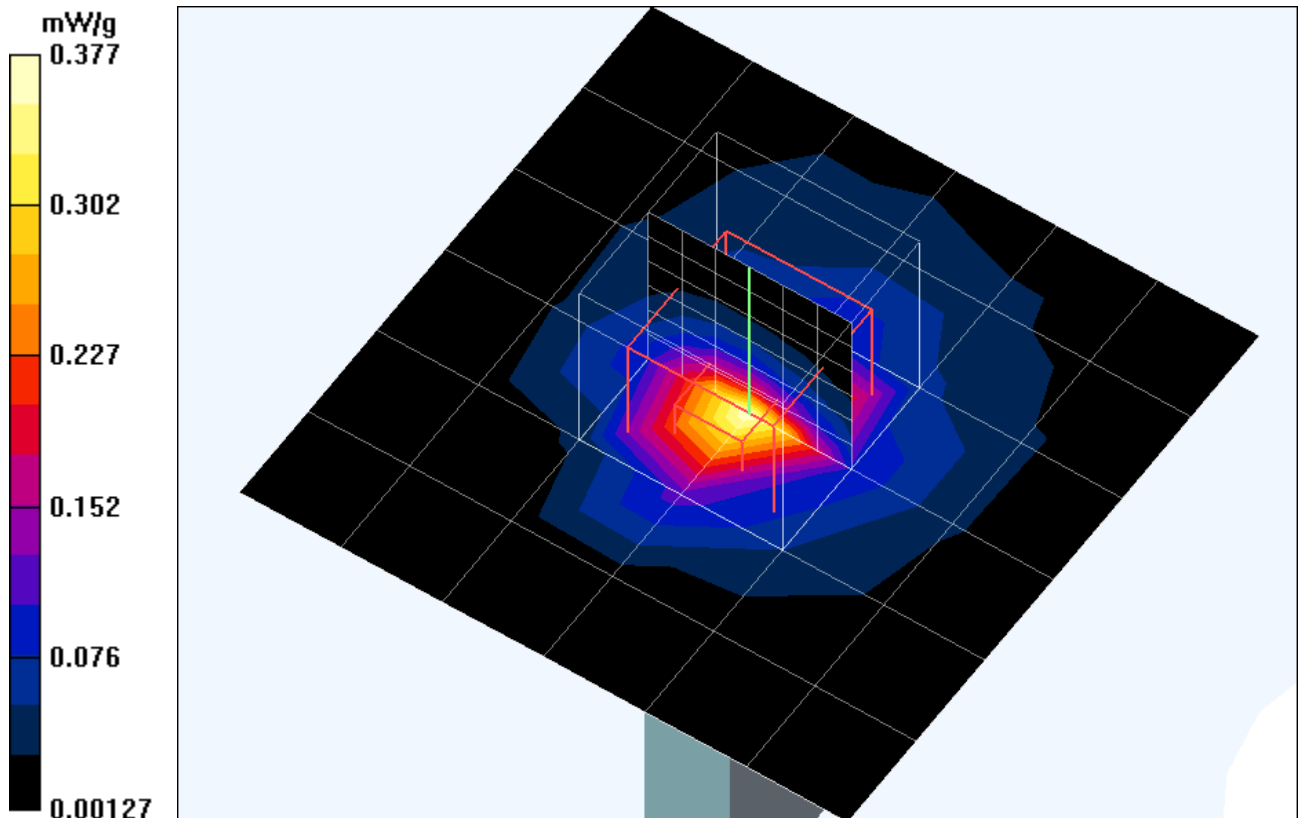
High Channel/Zoon Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 14.2 V/m; Power Drift = -0.2 dB

Peak SAR (extrapolated) = 0.758 W/kg

SAR(1 g) = 0.313 mW/g; SAR(10 g) = 0.131 mW/g

Maximum value of SAR (measured) = 0.361 mW/g



Test Laboratory: Advance Data Technology

DWL-AG132 11g Tip Mode 7 Ch 1

DUT: D-Link AirPremier AG DWL-AG132 Wireless USB Adapter ; Type: DWL-AG132 ; Test Frequency: 2412 MHz

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

Medium: MSL2450 Medium parameters used: $f = 2412$ MHz; $\sigma = 1.98$ mho/m; $\epsilon_r = 52.3$; $\rho = 1000$

kg/m³ ; Liquid level : 155 mm

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

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

DASY4 Configuration:

- Probe: ET3DV6 - SN1687 ; ConvF(4.23, 4.23, 4.23) ; Calibrated: 2004/8/26
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510; Calibrated: 2004/8/17
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP 1202
- Measurement SW: DASY4, V4.3 Build 22; Postprocessing SW: SEMCAD, V1.8 Build 127

Low Channel/Area Scan (7x7x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.152 mW/g

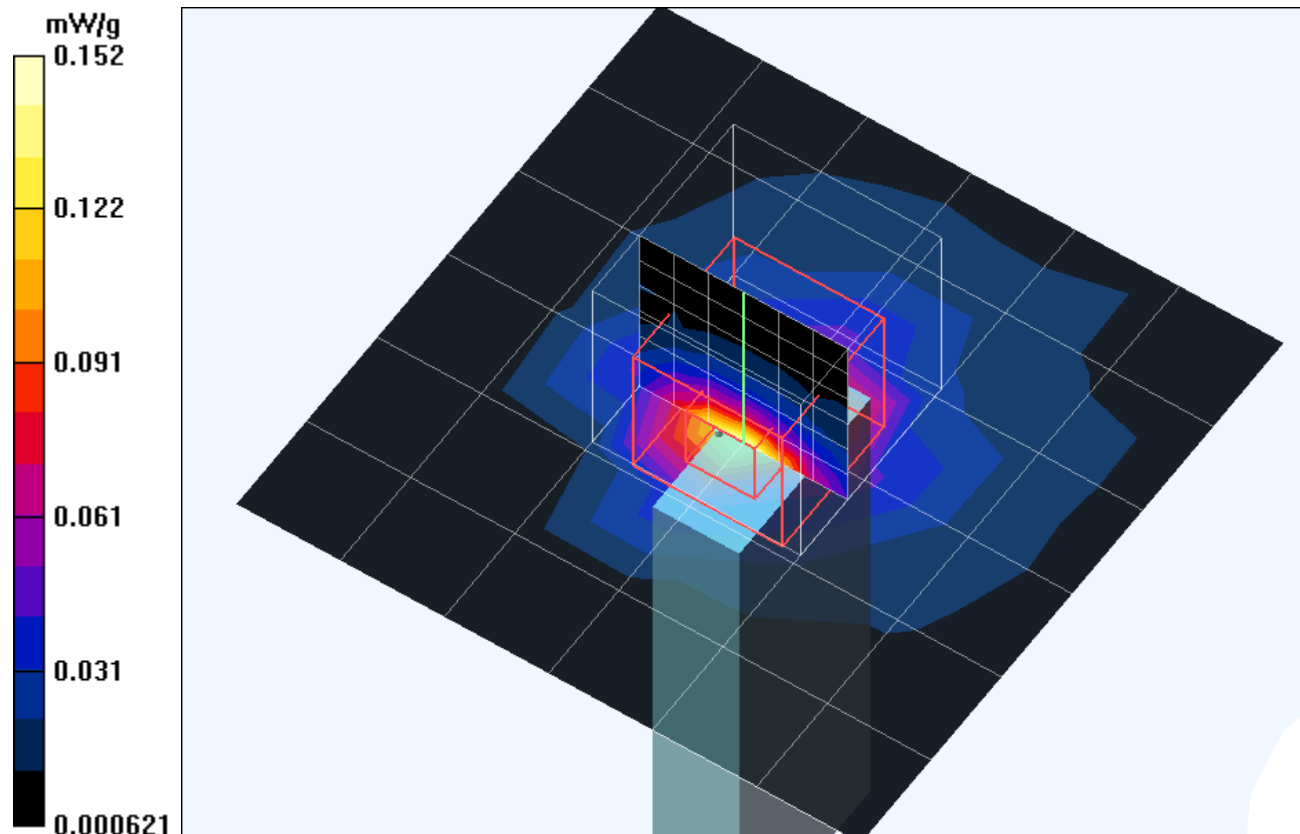
Low Channel/Zoon Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 9.32 V/m; Power Drift = -0.2 dB

Peak SAR (extrapolated) = 0.296 W/kg

SAR(1 g) = 0.125 mW/g; SAR(10 g) = 0.053 mW/g

Maximum value of SAR (measured) = 0.145 mW/g



A3 : SYSTEM VALIDATION

Date/Time: 11/03/04 10:24:42

Test Laboratory: Advance Data Technology

System Validation Check-MSL 5200MHz

DUT: Dipole 5 GHz ; Type: D5GHzV2 ; Test Channel Frequency: 5200 MHz

Communication System: CW ; Frequency: 5200 MHz; Duty Cycle: 1:1; Modulation type: CW
Medium: MSL5800; Medium parameters used: $f = 5200$ MHz; $\sigma = 5.35$ mho/m; $\epsilon_r = 47.3$; $\rho = 1000$

kg/m³ ; Liquid level : 150mm

Phantom section: Flat Section ; Separation distance : 10 mm (The feetpoint of the dipole to the Phantom) Air temp. : 22.0 degrees ; Liquid temp. : 21.0 degrees

DASY4 Configuration:

- Probe: EX3DV3 - SN3504 ; ConvF(4.29, 4.29, 4.29) ; Calibrated: 2004/2/20
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510; Calibrated: 2004/8/17
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP 1202
- Measurement SW: DASY4, V4.3 Build 22; Postprocessing SW: SEMCAD, V1.8 Build 127

f=5200, d=10mm, Pin=250mW/Area Scan (6x6x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 22.8 mW/g

f=5200, d=10mm, Pin=250mW/Zoom Scan (8x8x8)/Cube 0: Measurement grid:

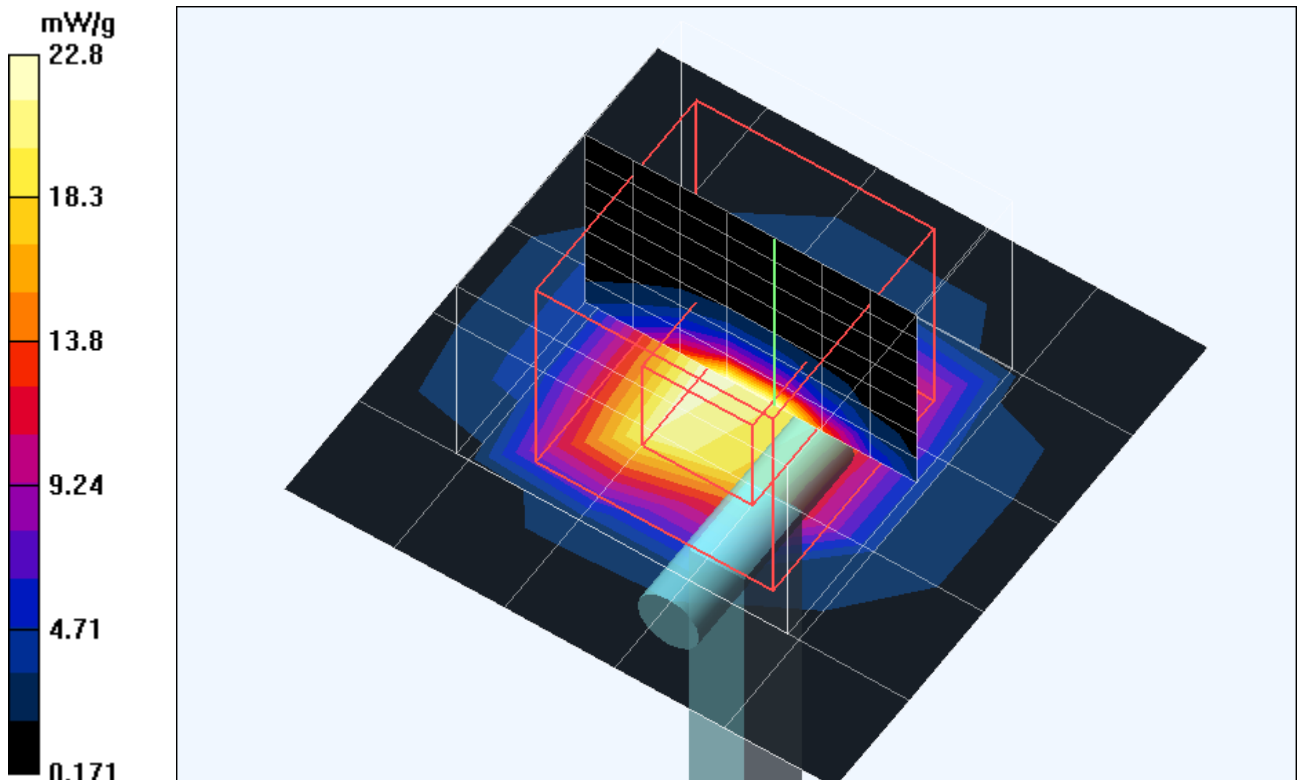
dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 89.8 V/m; Power Drift = -0.0 dB

Peak SAR (extrapolated) = 74.3 W/kg

SAR(1 g) = 20.4 mW/g; SAR(10 g) = 5.7 mW/g

Maximum value of SAR (measured) = 34.1 mW/g



Test Laboratory: Advance Data Technology

System Validation Check-MSL 5800MHz**DUT: Dipole 5 GHz ; Type: D5GHzV2 ; Test Channel Frequency: 5800 MHz**

Communication System: CW ; Frequency: 5800 MHz; Duty Cycle: 1:1; Modulation type: CW
 Medium: MSL5800; Medium parameters used: $f = 5800$ MHz; $\sigma = 6.18$ mho/m; $\epsilon_r = 46.2$; $\rho = 1000$

kg/m^3 ; Liquid level : 150mm

Phantom section: Flat Section ; Separation distance : 10 mm (The feetpoint of the dipole to the Phantom) Air temp. : 22.0 degrees ; Liquid temp. : 21.0 degrees

DASY4 Configuration:

- Probe: EX3DV3 - SN3504 ; ConvF(3.96, 3.96, 3.96) ; Calibrated: 2004/2/20
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510; Calibrated: 2004/8/17
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP 1202
- Measurement SW: DASY4, V4.3 Build 22; Postprocessing SW: SEMCAD, V1.8 Build 127

f=5800, d=10mm, Pin=250mW/Area Scan (6x6x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 22 mW/g

f=5800, d=10mm, Pin=250mW/Zoom Scan (8x8x8)/Cube 0: Measurement grid:

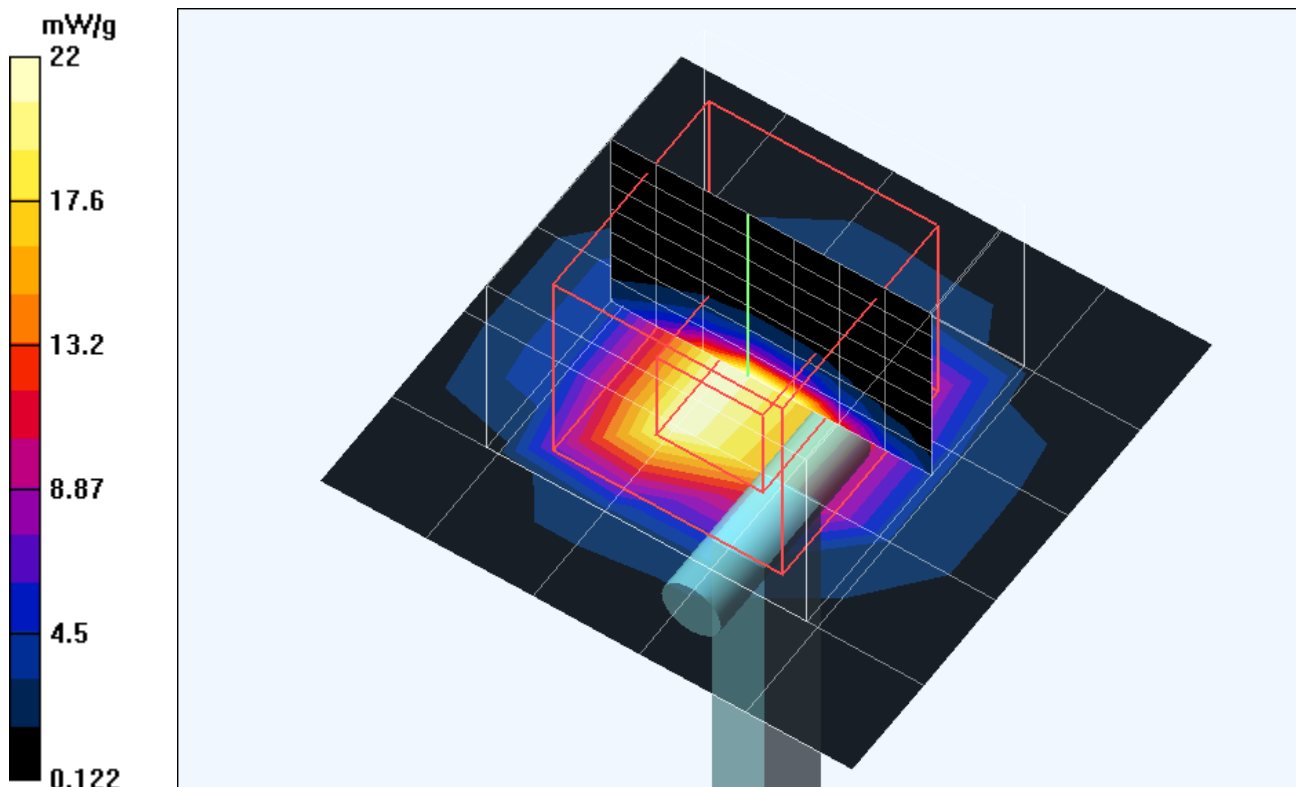
dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 77.4 V/m; Power Drift = 0.0 dB

Peak SAR (extrapolated) = 74.3 W/kg

SAR(1 g) = 18.2 mW/g; SAR(10 g) = 5.06 mW/g

Maximum value of SAR (measured) = 30.7 mW/g



Test Laboratory: Advance Data Technology

System Validation Check-MSL 5200MHz

DUT: Dipole 5 GHz ; Type: D5GHzV2 ; Serial: 1019 ; Test Frequency: 5200 MHz

Communication System: CW ; Frequency: 5200 MHz; Duty Cycle: 1:1; Modulation type: CW
Medium: MSL5800; Medium parameters used: $f = 5200$ MHz; $\sigma = 5.35$ mho/m; $\epsilon_r = 47.5$; $\rho = 1000$

kg/m³ ; Liquid level : 150mm

Phantom section: Flat Section ; Separation distance : 10 mm (The feetpoint of the dipole to the Phantom) Air temp. : 22.0 degrees ; Liquid temp. : 21.0 degrees

DASY4 Configuration:

- Probe: EX3DV3 - SN3504 ; ConvF(4.29, 4.29, 4.29) ; Calibrated: 2004/2/20
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510; Calibrated: 2004/8/17
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP 1202
- Measurement SW: DASY4, V4.4 Build 3; Postprocessing SW: SEMCAD, V1.8 Build 130

f=5200, d=10mm, Pin=250mW/Area Scan (6x6x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 23.4 mW/g

f=5200, d=10mm, Pin=250mW/Zoom Scan (8x8x8)/Cube 0: Measurement grid:

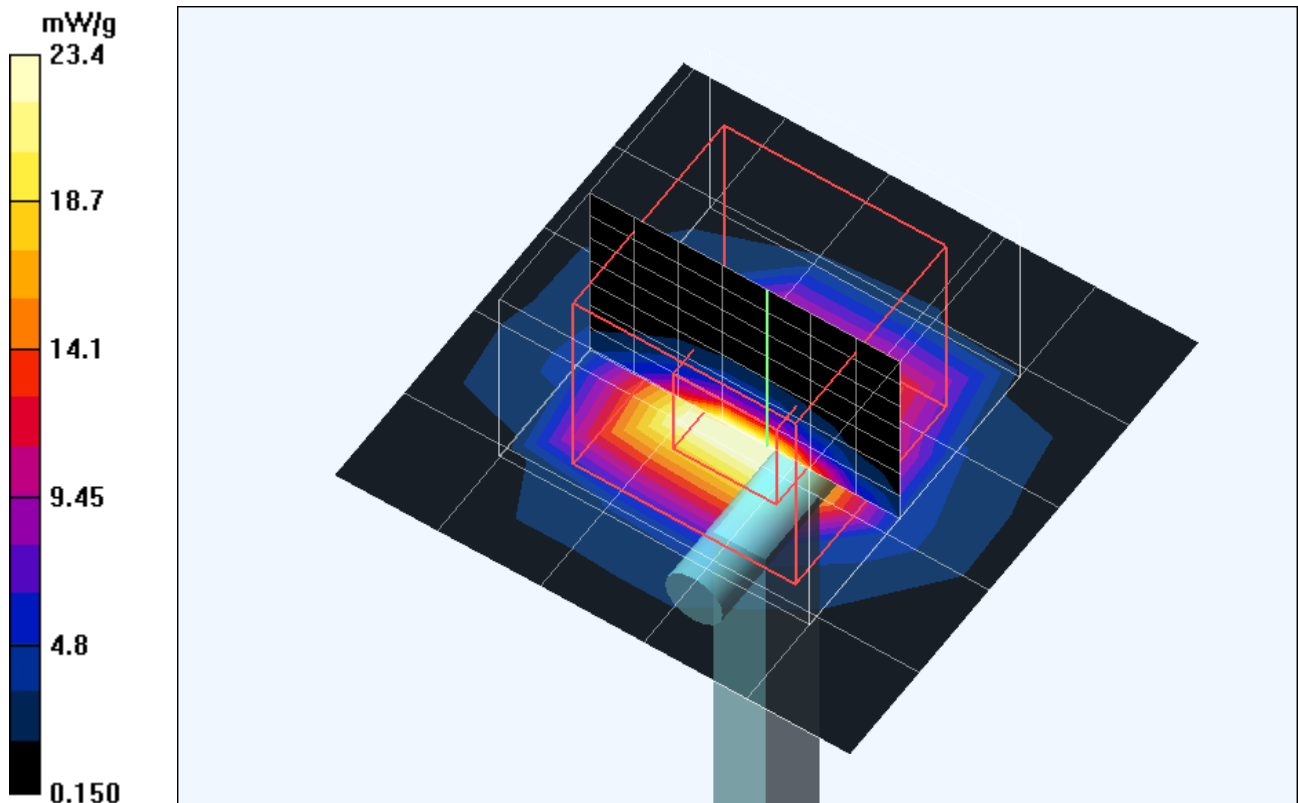
dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 88.3 V/m; Power Drift = -0.1 dB

Peak SAR (extrapolated) = 74.3 W/kg

SAR(1 g) = 20.6 mW/g; SAR(10 g) = 5.7 mW/g

Maximum value of SAR (measured) = 34.6 mW/g



Test Laboratory: Advance Data Technology

System Validation Check-MSL 5800MHz**DUT: Dipole 5 GHz ; Type: D5GHzV2 ; Serial: 1019 ; Test Frequency: 5800 MHz**

Communication System: CW ; Frequency: 5800 MHz; Duty Cycle: 1:1; Modulation type: CW
 Medium: MSL5800; Medium parameters used: $f = 5800$ MHz; $\sigma = 6.22$ mho/m; $\epsilon_r = 46.3$; $\rho = 1000$

kg/m³ ; Liquid level : 150mm

Phantom section: Flat Section ; Separation distance : 10 mm (The feetpoint of the dipole to the Phantom) Air temp. : 22.0 degrees ; Liquid temp. : 21.0 degrees

DASY4 Configuration:

- Probe: EX3DV3 - SN3504 ; ConvF(3.96, 3.96, 3.96) ; Calibrated: 2004/2/20
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510; Calibrated: 2004/8/17
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP 1202
- Measurement SW: DASY4, V4.4 Build 3; Postprocessing SW: SEMCAD, V1.8 Build 130

f=5800, d=10mm, Pin=250mW/Area Scan (6x6x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 21.9 mW/g

f=5800, d=10mm, Pin=250mW/Zoom Scan (8x8x8)/Cube 0: Measurement grid:

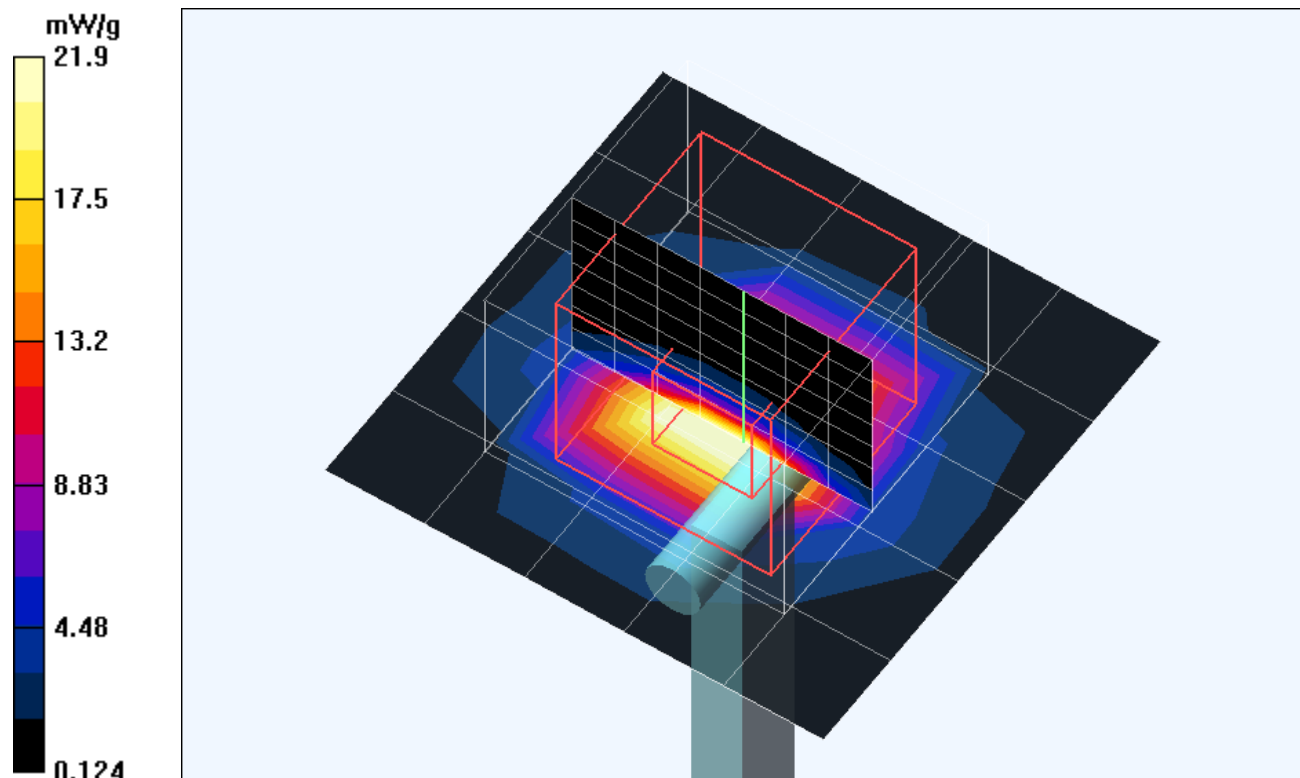
dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 78.2 V/m; Power Drift = -0.0 dB

Peak SAR (extrapolated) = 82.1 W/kg

SAR(1 g) = 18.9 mW/g; SAR(10 g) = 5.25 mW/g

Maximum value of SAR (measured) = 32.1 mW/g



Test Laboratory: Advance Data Technology

System Validation Check-MSL 2450MHz

DUT: Dipole 2450 MHz ; Type: D2450V2 ; Test Channel Frequency: 2450 MHz

Communication System: CW ; Frequency: 2450 MHz; Duty Cycle: 1:1; Modulation type: CW
Medium: MSL2450; Medium parameters used: $f = 2450$ MHz; $\sigma = 2.03$ mho/m; $\epsilon_r = 52.2$; $\rho = 1000$

kg/m³ ; Liquid level : 155mm

Phantom section: Flat Section ; Separation distance : 10 mm (The feetpoint of the dipole to the Phantom) Air temp. : 22.0 degrees ; Liquid temp. : 21.0 degrees

DASY4 Configuration:

- Probe: ET3DV6 - SN1687 ; ConvF(4.23, 4.23, 4.23) ; Calibrated: 2004/8/26
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn510; Calibrated: 2004/8/17
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP 1202
- Measurement SW: DASY4, V4.3 Build 22; Postprocessing SW: SEMCAD, V1.8 Build 127

d=10mm, Pin=250mW/Area Scan (5x6x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 12.4 mW/g

d=10mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 82.6 V/m; Power Drift = -0.2 dB

Peak SAR (extrapolated) = 21.2 W/kg

SAR(1 g) = 11.5 mW/g; SAR(10 g) = 5.54 mW/g

Maximum value of SAR (measured) = 13.4 mW/g

