

APPENDIX A: TEST CONFIGURATIONS AND TEST DATA

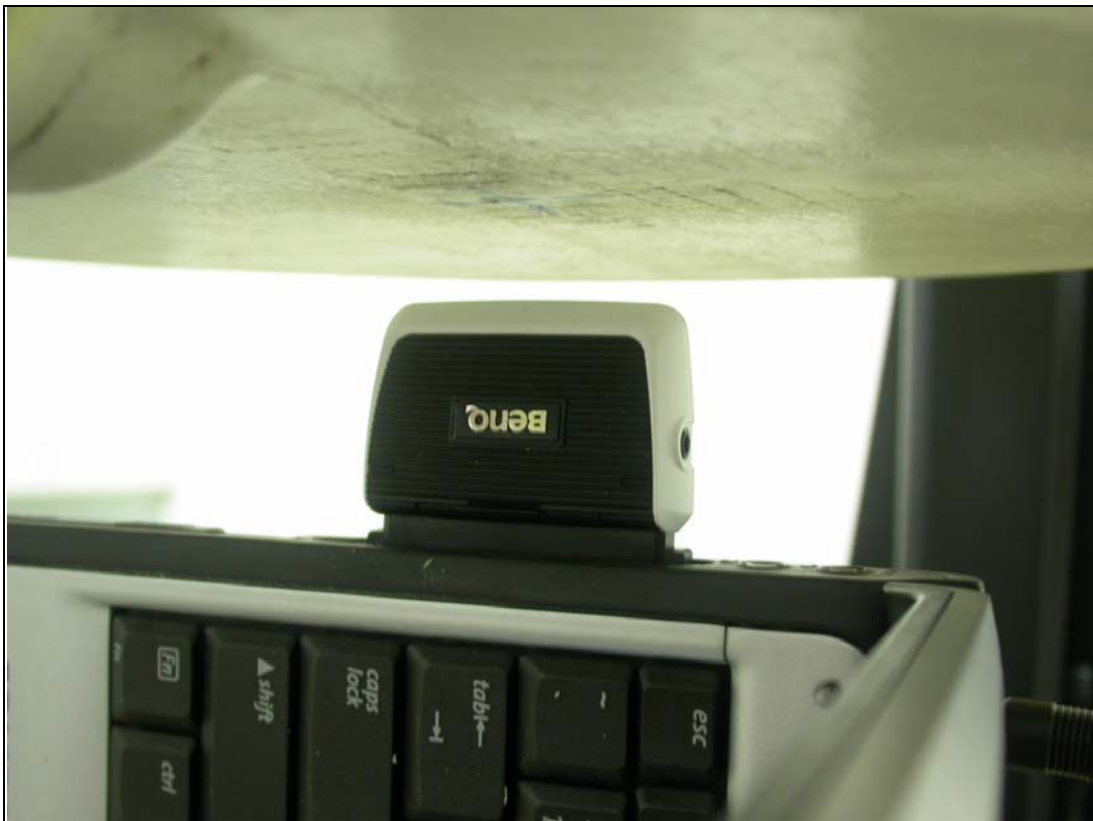
A1: TEST CONFIGURATION

Mode 1



The EUT to the flat phantom distance is 11mm

Mode 2



The EUT to the flat phantom distance is 15mm

Mode 3



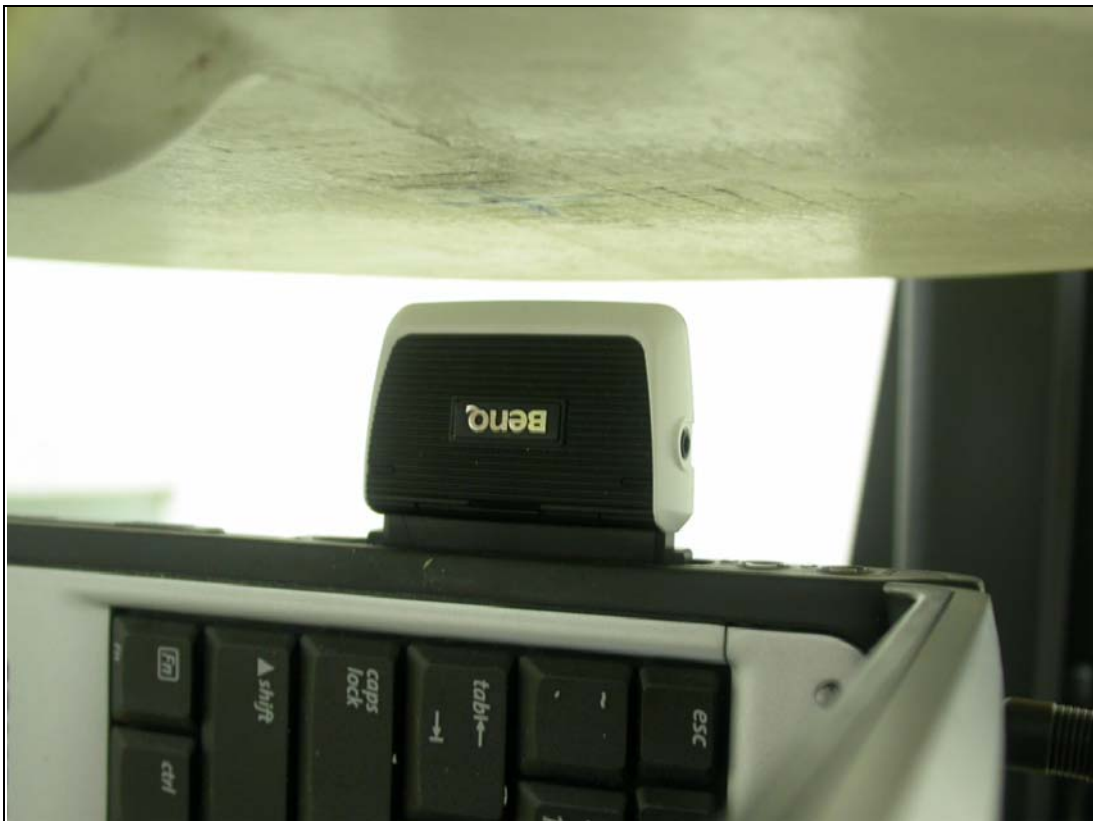
The EUT to the flat phantom distance is 6mm

Mode 4



The EUT to the flat phantom distance is 11mm

Mode 5



The EUT to the flat phantom distance is 15mm

Mode 6



The EUT to the flat phantom distance is 6mm

EUT Photo



Liquid Level Photo

2450MHz D=155mm



1900MHz D=152mm



A2 : TEST DATA

Date/Time: 09/10/03 11:48:44

Test Laboratory: Advance Data Technology

BANQ 56W10 Mode 1

DUT: Wireless LAN PCMCIA Card ; Type: 56W10 ; Test Channel Frequency: 2412 MHz

Communication System: 802.11b ; Frequency: 2412 MHz; Duty Cycle: 1:1; Modulation type: CCK
Medium: MSL2450 ($\sigma = 1.91$ mho/m, $\epsilon_r = 51.92$, $\rho = 1000$ kg/m³) ; Liquid level : 155mm

Phantom section: Flat Section ; Separation distance : 11mm(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: 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 = 17.8 V/m

Power Drift = -0.2 dB

Maximum value of SAR = 1.33 mW/g

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

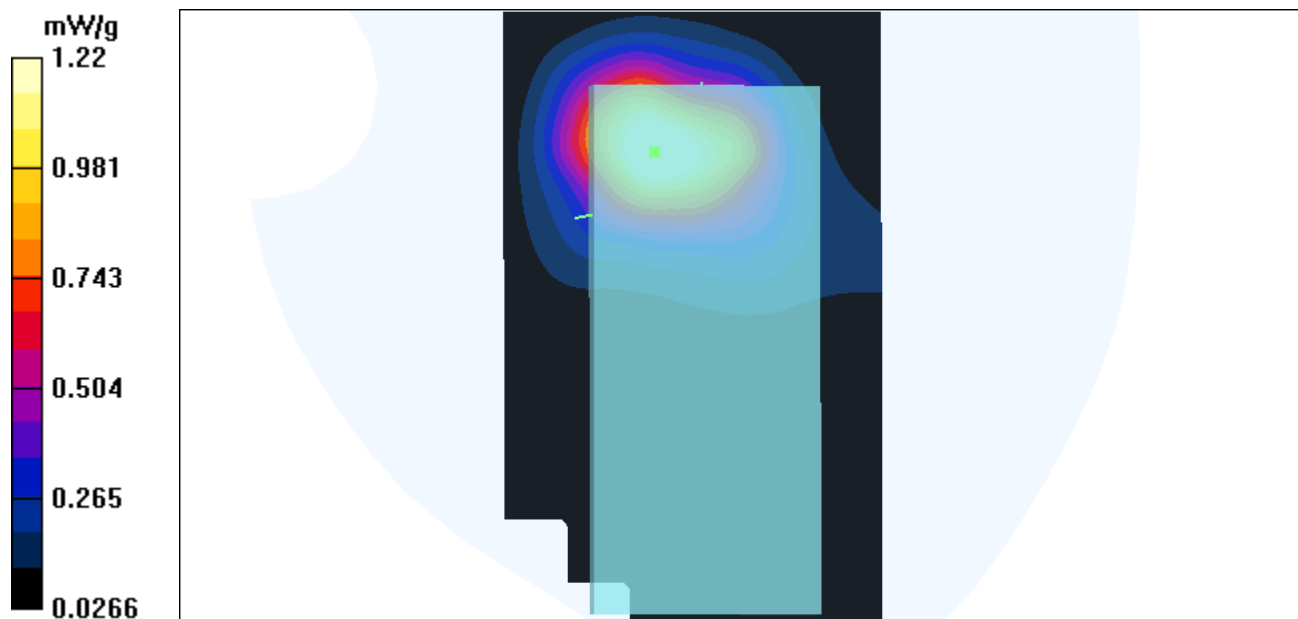
Peak SAR (extrapolated) = 2.05 W/kg

SAR(1 g) = 1.16 mW/g; SAR(10 g) = 0.648 mW/g

Reference Value = 17.8 V/m

Power Drift = -0.2 dB

Maximum value of SAR = 1.22 mW/g



Test Laboratory: Advance Data Technology

BANQ 56W10 Mode 1

DUT: Wireless LAN PCMCIA Card ; Type: 56W10 ; Test Channel Frequency: 2437 MHz

Communication System: 802.11b ; Frequency: 2437 MHz; Duty Cycle: 1:1; Modulation type: CCK
Medium: MSL2450 ($\sigma = 1.95 \text{ mho/m}$, $\epsilon_r = 51.88$, $\rho = 1000 \text{ kg/m}^3$) ; Liquid level : 155mm

Phantom section: Flat Section ; Separation distance : 11mm(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: 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 = 16.7 V/m

Power Drift = -0.2 dB

Maximum value of SAR = 1.2 mW/g

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

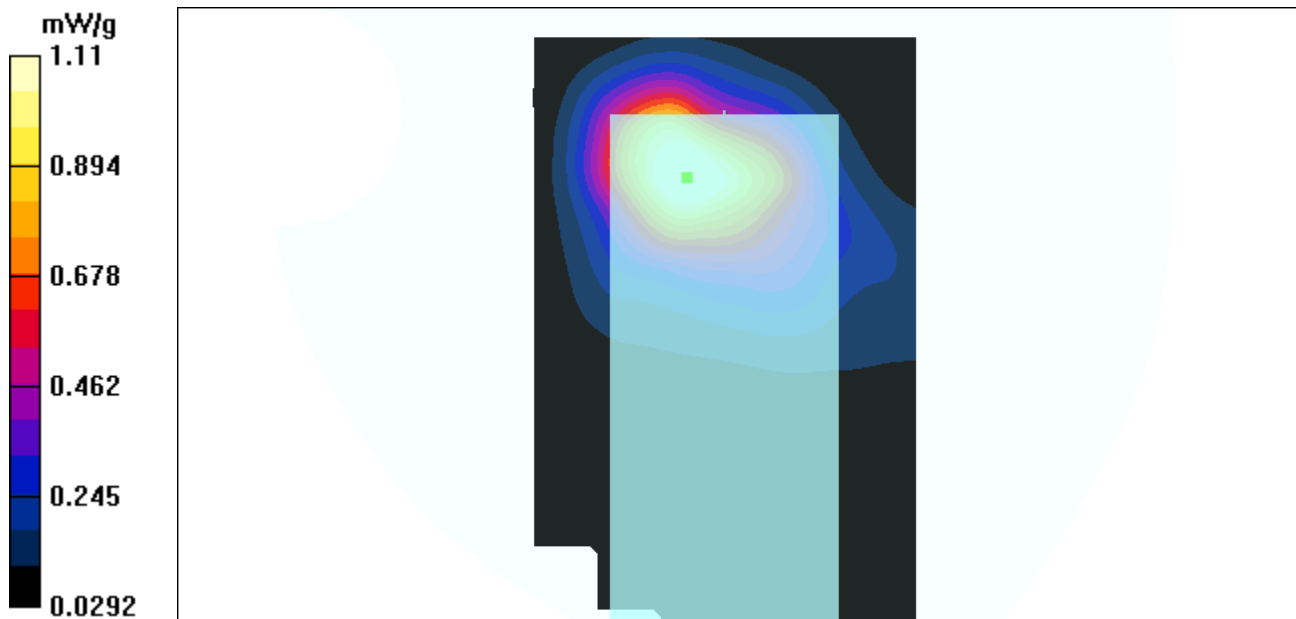
Peak SAR (extrapolated) = 1.84 W/kg

SAR(1 g) = 1.05 mW/g; SAR(10 g) = 0.58 mW/g

Reference Value = 16.7 V/m

Power Drift = -0.2 dB

Maximum value of SAR = 1.11 mW/g



Test Laboratory: Advance Data Technology

BANQ 56W10 Mode 1

DUT: Wireless LAN PCMCIA Card ; Type: 56W10 ; Test Channel Frequency: 2462 MHz

Communication System: 802.11b ; Frequency: 2462 MHz; Duty Cycle: 1:1; Modulation type: CCK
Medium: MSL2450 ($\sigma = 2.01$ mho/m, $\epsilon_r = 51.56$, $\rho = 1000$ kg/m³) ; Liquid level : 155mm

Phantom section: Flat Section ; Separation distance : 0mm(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: 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 = 14.9 V/m

Power Drift = 0.01 dB

Maximum value of SAR = 1.14 mW/g

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

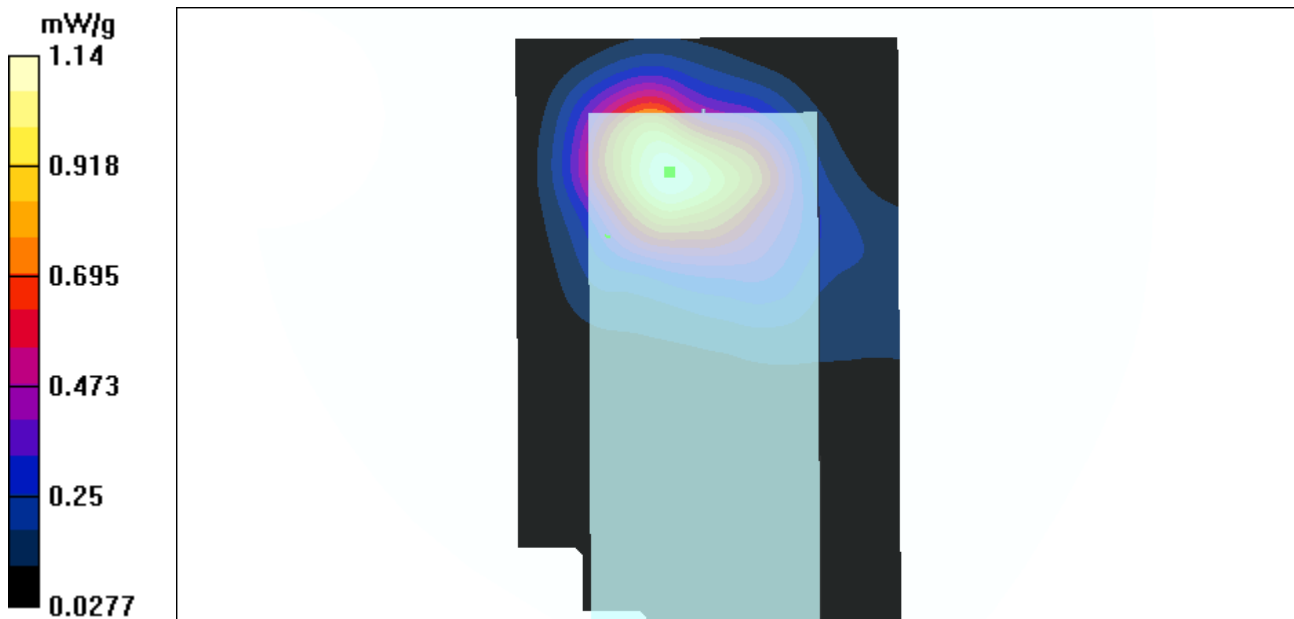
Peak SAR (extrapolated) = 1.86 W/kg

SAR(1 g) = 1.05 mW/g; SAR(10 g) = 0.574 mW/g

Reference Value = 14.9 V/m

Power Drift = 0.01 dB

Maximum value of SAR = 1.14 mW/g



Test Laboratory: Advance Data Technology

BANQ 56W10 Mode 2

DUT: BenQ W10 GPRS+Wireless LAN PCMCIA adapter ; Type: BenQ W10 GPRS+Wireless LAN PCMCIA adapter ; Test Channel Frequency: 2412 MHz

Communication System: 802.11b ; Frequency: 2412 MHz; Duty Cycle: 1:1; Modulation type: CCK
Medium: MSL2450 ($\sigma = 1.91$ mho/m, $\epsilon_r = 51.92$, $\rho = 1000$ kg/m³) ; Liquid level : 155mm

Phantom section: Flat Section ; Separation distance : 15mm(Tip side 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: 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 1/Area Scan (41x61x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 13.1 V/m

Power Drift = -0.1 dB

Maximum value of SAR = 0.312 mW/g

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

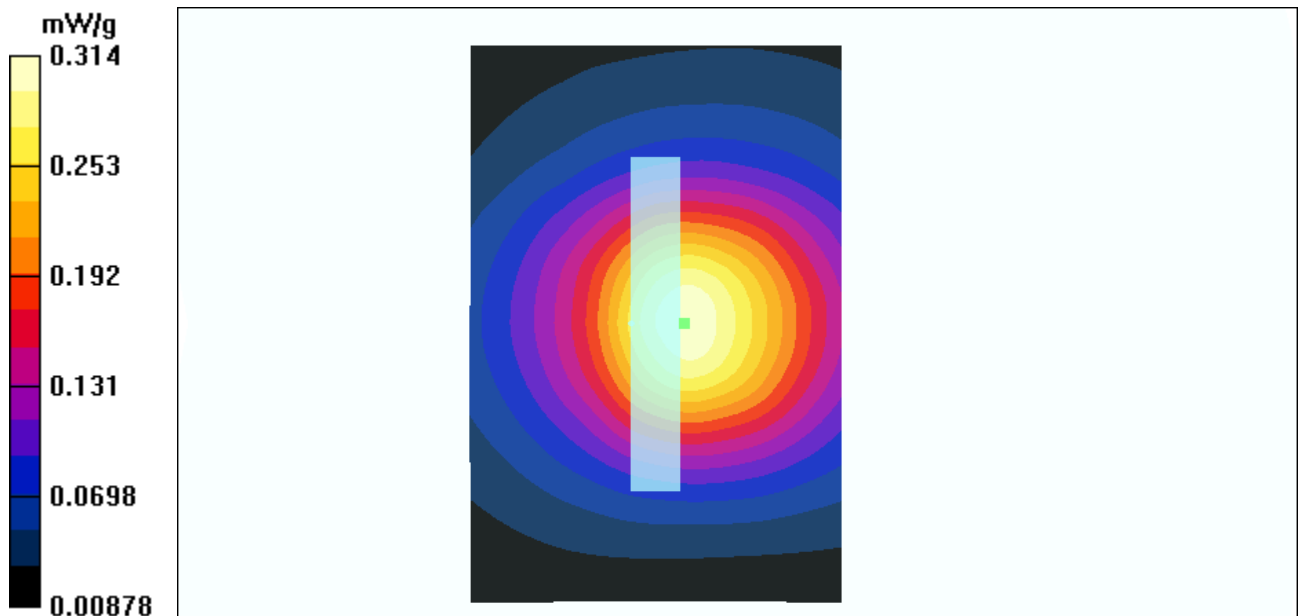
Peak SAR (extrapolated) = 0.514 W/kg

SAR(1 g) = 0.296 mW/g; SAR(10 g) = 0.172 mW/g

Reference Value = 13.1 V/m

Power Drift = -0.1 dB

Maximum value of SAR = 0.314 mW/g



Test Laboratory: Advance Data Technology

BANQ 56W10 Mode 2

DUT: BenQ W10 GPRS+Wireless LAN PCMCIA adapter ; Type: BenQ W10 GPRS+Wireless LAN PCMCIA adapter ; Test Channel Frequency: 2437 MHz

Communication System: 802.11b ; Frequency: 2437 MHz; Duty Cycle: 1:1; Modulation type: CCK
Medium: MSL2450 ($\sigma = 1.95$ mho/m, $\epsilon_r = 51.88$, $\rho = 1000$ kg/m³) ; Liquid level : 155mm

Phantom section: Flat Section ; Separation distance : 15mm(Tip side 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: 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 6/Area Scan (41x61x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 15.6 V/m

Power Drift = -0.1 dB

Maximum value of SAR = 0.455 mW/g

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

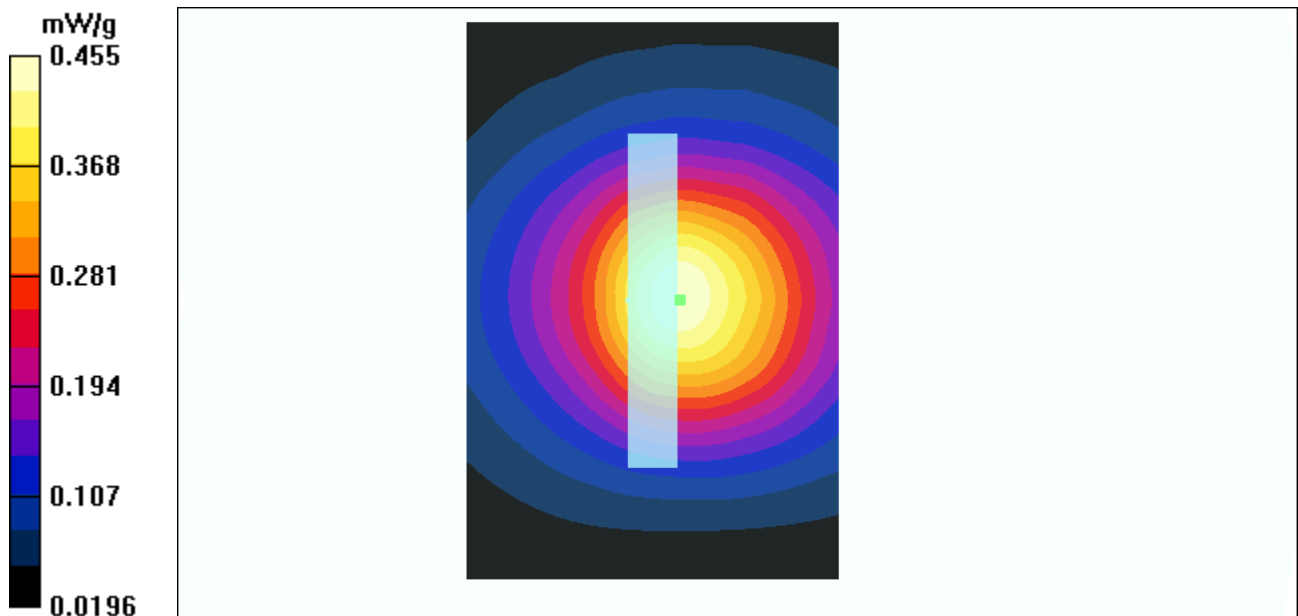
Peak SAR (extrapolated) = 0.776 W/kg

SAR(1 g) = 0.422 mW/g; SAR(10 g) = 0.237 mW/g

Reference Value = 15.6 V/m

Power Drift = -0.1 dB

Maximum value of SAR = 0.447 mW/g



Test Laboratory: Advance Data Technology

BANQ 56W10 Mode 2

DUT: BenQ W10 GPRS+Wireless LAN PCMCIA adapter ; Type: BenQ W10 GPRS+Wireless LAN PCMCIA adapter ; Test Channel Frequency: 2462 MHz

Communication System: 802.11b ; Frequency: 2462 MHz; Duty Cycle: 1:1; Modulation type: CCK
Medium: MSL2450 ($\sigma = 2.01$ mho/m, $\epsilon_r = 51.56$, $\rho = 1000$ kg/m³) ; Liquid level : 155mm

Phantom section: Flat Section ; Separation distance : 15mm(Tip side 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: 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 = 15.3 V/m

Power Drift = -0.03 dB

Maximum value of SAR = 0.459 mW/g

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

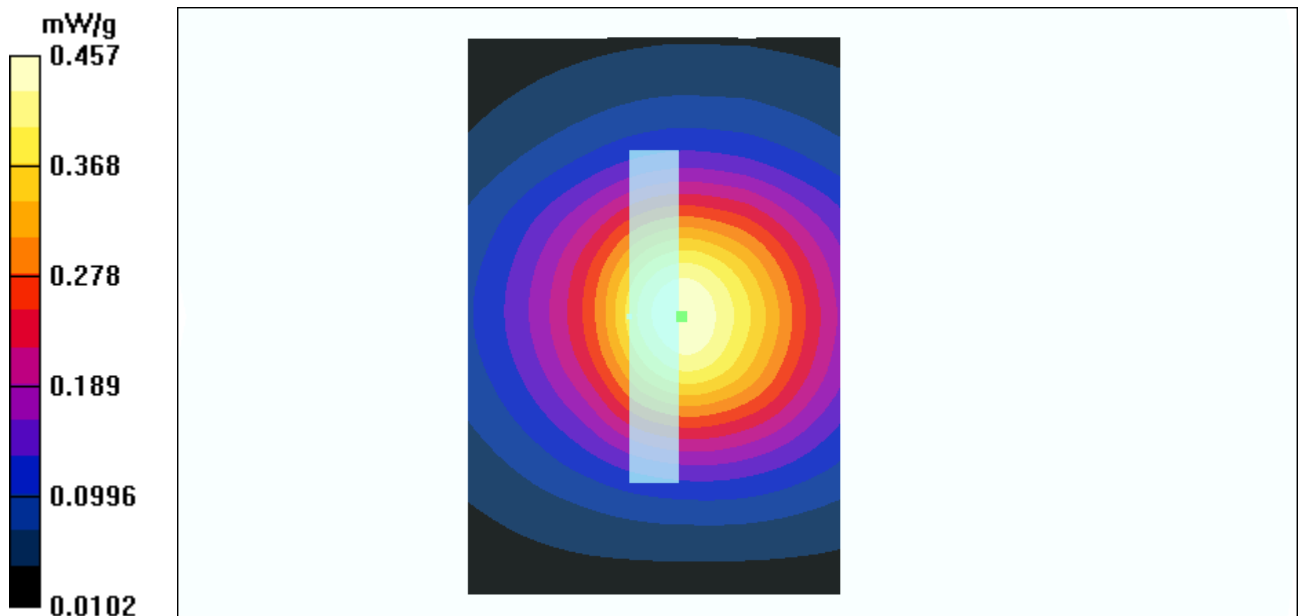
Peak SAR (extrapolated) = 0.798 W/kg

SAR(1 g) = 0.432 mW/g; SAR(10 g) = 0.242 mW/g

Reference Value = 15.3 V/m

Power Drift = -0.03 dB

Maximum value of SAR = 0.457 mW/g



Test Laboratory: Advance Data Technology

BANQ 56W10 Mode 3

DUT: Wireless LAN PCMCIA Card ; Type: 56W10 ; Test Channel Frequency: 2412 MHz

Communication System: 802.11b ; Frequency: 2412 MHz; Duty Cycle: 1:1; Modulation type: CCK
Medium: MSL2450 ($\sigma = 1.91$ mho/m, $\epsilon_r = 51.92$, $\rho = 1000$ kg/m³) ; Liquid level : 155mm

Phantom section: Flat Section ; Separation distance : 6mm(The Top 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: 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 = 13 V/m

Power Drift = -0.07 dB

Maximum value of SAR = 0.893 mW/g

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

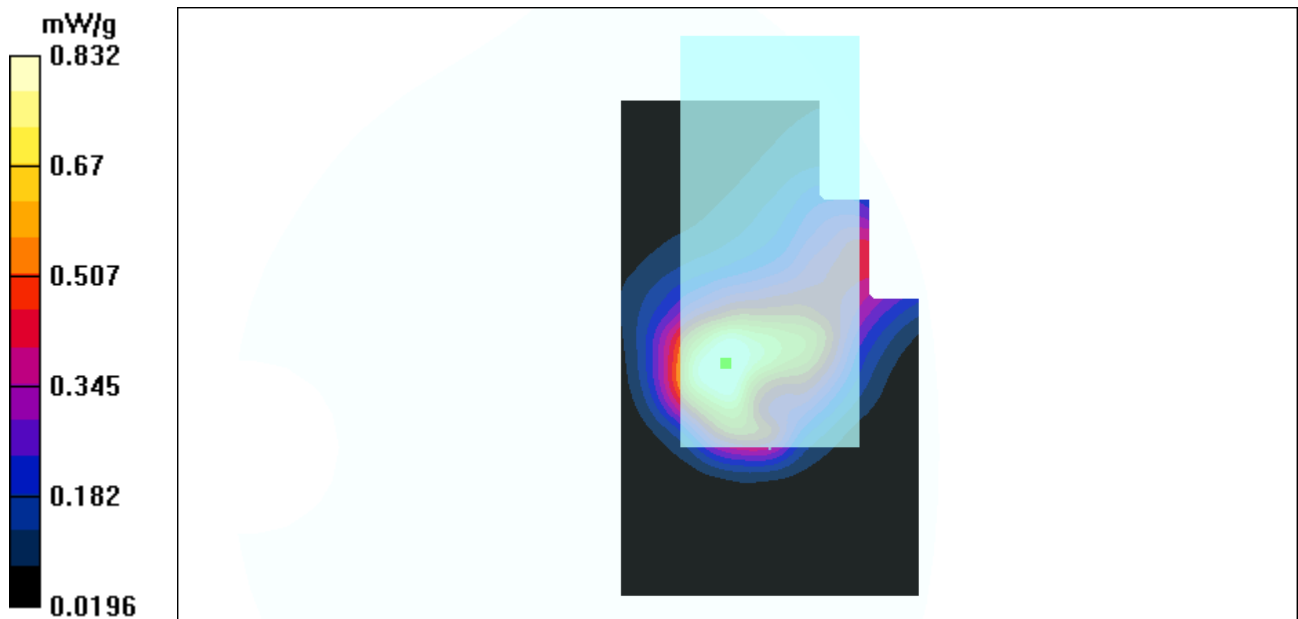
Peak SAR (extrapolated) = 1.49 W/kg

SAR(1 g) = 0.787 mW/g; SAR(10 g) = 0.436 mW/g

Reference Value = 13 V/m

Power Drift = -0.07 dB

Maximum value of SAR = 0.832 mW/g



Test Laboratory: Advance Data Technology

BANQ 56W10 Mode 3

DUT: Wireless LAN PCMCIA Card ; Type: 56W10 ; Test Channel Frequency: 2437 MHz

Communication System: 802.11b ; Frequency: 2437 MHz; Duty Cycle: 1:1; Modulation type: CCK
Medium: MSL2450 ($\sigma = 1.95$ mho/m, $\epsilon_r = 51.88$, $\rho = 1000$ kg/m³) ; Liquid level : 155mm

Phantom section: Flat Section ; Separation distance : 6mm(The Top 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: 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 = 12.3 V/m

Power Drift = -0.2 dB

Maximum value of SAR = 0.832 mW/g

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

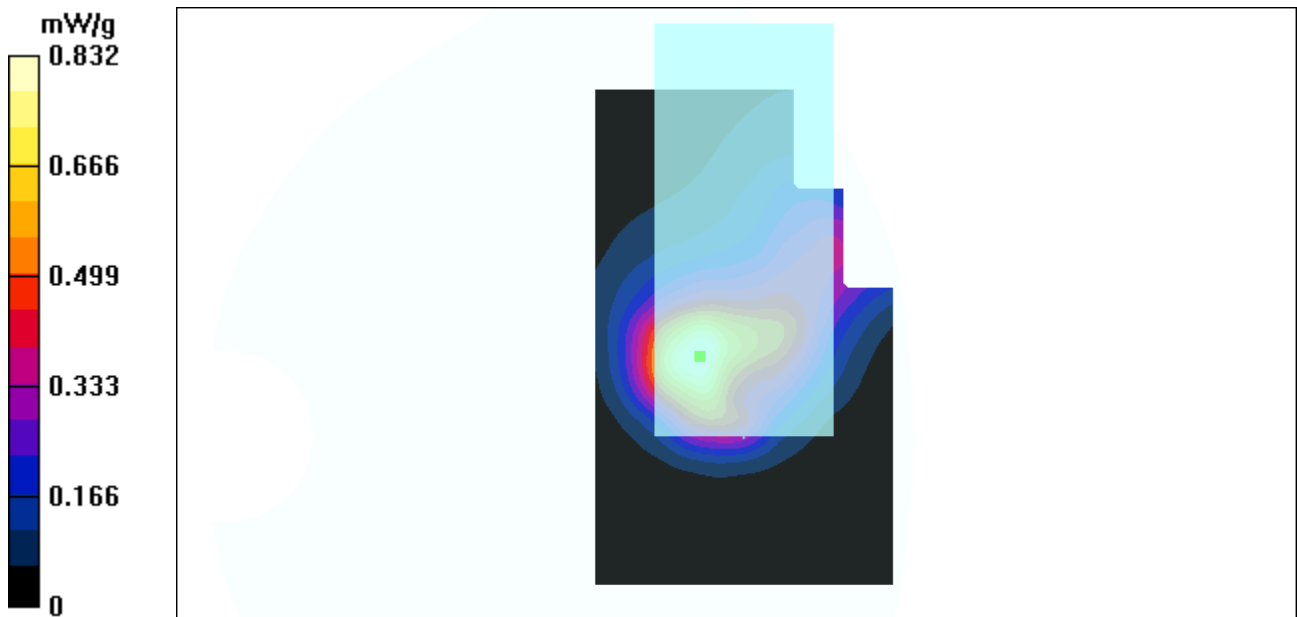
Peak SAR (extrapolated) = 1.41 W/kg

SAR(1 g) = 0.727 mW/g; SAR(10 g) = 0.399 mW/g

Reference Value = 12.3 V/m

Power Drift = -0.2 dB

Maximum value of SAR = 0.776 mW/g



Test Laboratory: Advance Data Technology

BANQ 56W10 Mode 3

DUT: Wireless LAN PCMCIA Card ; Type: 56W10 ; Test Channel Frequency: 2462 MHz

Communication System: 802.11b ; Frequency: 2462 MHz; Duty Cycle: 1:1; Modulation type: CCK
Medium: MSL2450 ($\sigma = 2.01$ mho/m, $\epsilon_r = 51.56$, $\rho = 1000$ kg/m³) ; Liquid level : 155mm

Phantom section: Flat Section ; Separation distance : 6mm(The Top 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: 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 = 11.8 V/m

Power Drift = -0.003 dB

Maximum value of SAR = 0.731 mW/g

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

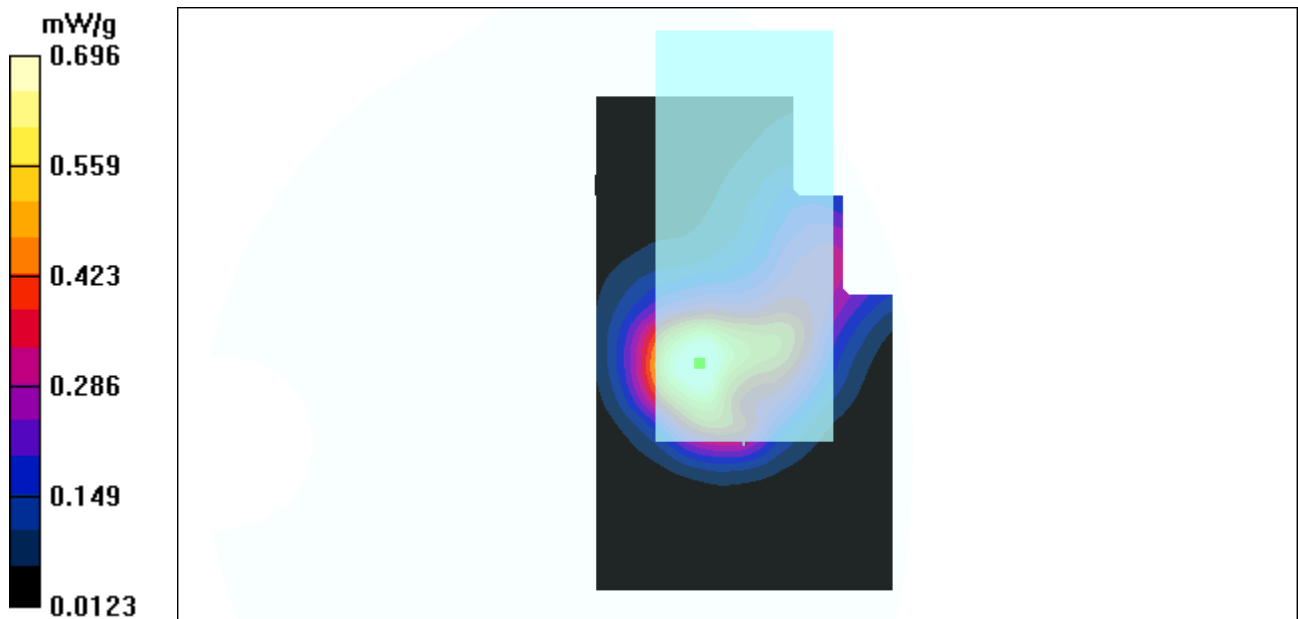
Peak SAR (extrapolated) = 1.31 W/kg

SAR(1 g) = 0.663 mW/g; SAR(10 g) = 0.357 mW/g

Reference Value = 11.8 V/m

Power Drift = -0.003 dB

Maximum value of SAR = 0.696 mW/g



Test Laboratory: Advance Data Technology

BANQ 56W10 Mode 4

DUT: Wireless LAN PCMCIA Card ; Type: 56W10 ; Test Channel Frequency: 1850.2 MHz

Communication System: PCS 1900 ; Frequency: 1850.2 MHz; Duty Cycle: 1:4; Modulation type: GMSK

Medium: MSL1900 ($\sigma = 1.501$ mho/m, $\epsilon_r = 52.9041$, $\rho = 1000$ kg/m³) ; Liquid level : 152mm

Phantom section: Flat Section ; Separation distance : 11mm(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(5, 5, 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 512/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 9.57 V/m

Power Drift = 0.2 dB

Maximum value of SAR = 0.477 mW/g

Channel 512/Zoon Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

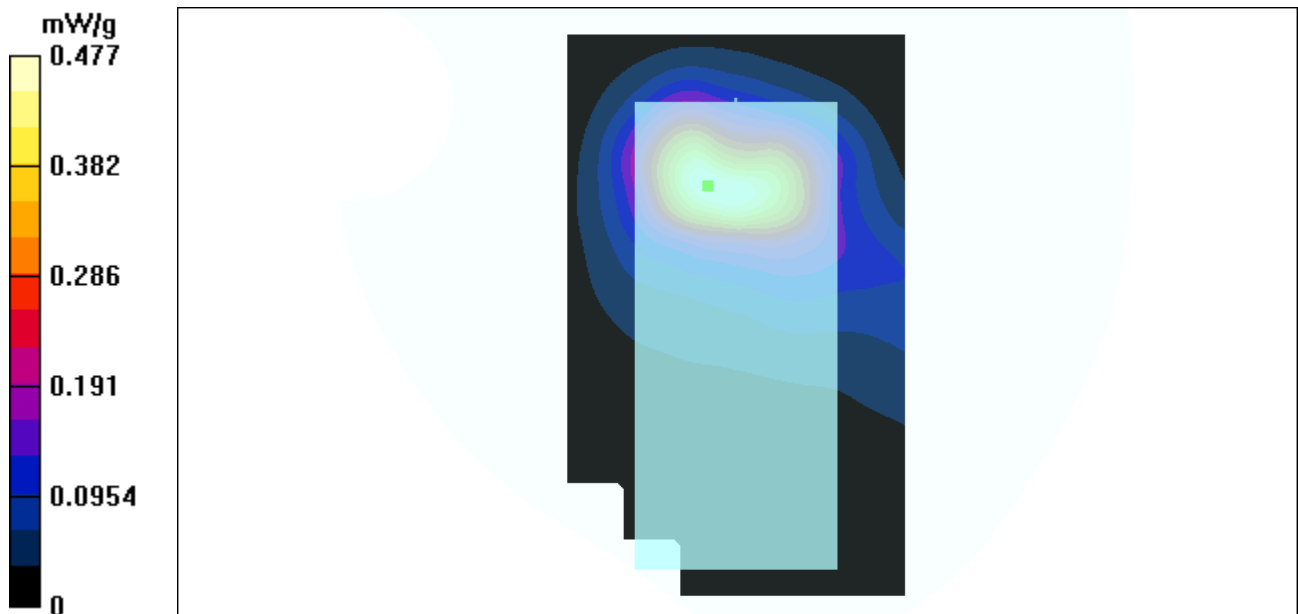
Peak SAR (extrapolated) = 0.831 W/kg

SAR(1 g) = 0.453 mW/g; SAR(10 g) = 0.244 mW/g

Reference Value = 9.57 V/m

Power Drift = 0.2 dB

Maximum value of SAR = 0.492 mW/g



Test Laboratory: Advance Data Technology

BANQ 56W10 Mode 4

DUT: Wireless LAN PCMCIA Card ; Type: 56W10 ; Test Channel Frequency: 1880 MHz

Communication System: PCS 1900 ; Frequency: 1880 MHz; Duty Cycle: 1:4; Modulation type: GMSK

Medium: MSL1900 ($\sigma = 1.531$ mho/m, $\epsilon_r = 52.7618$, $\rho = 1000$ kg/m³) ; Liquid level : 152mm

Phantom section: Flat Section ; Separation distance : 11mm(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(5, 5, 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 661/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 9.81 V/m

Power Drift = -0.01 dB

Maximum value of SAR = 0.487 mW/g

Channel 661/Zoon Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

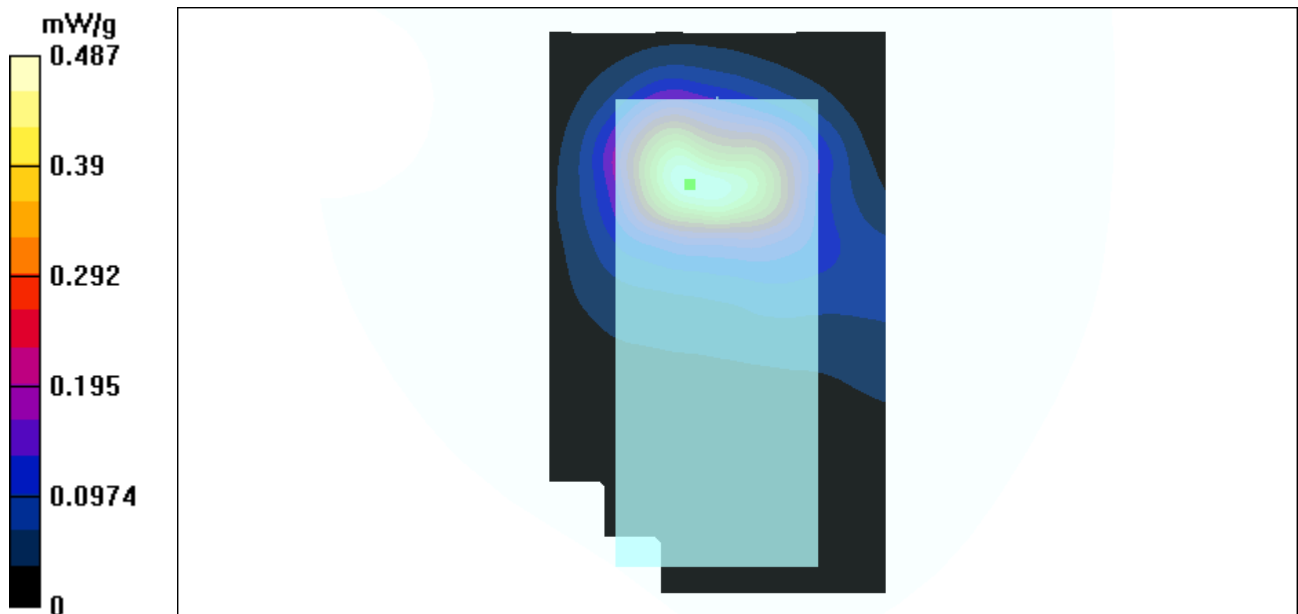
Peak SAR (extrapolated) = 0.826 W/kg

SAR(1 g) = 0.442 mW/g; SAR(10 g) = 0.237 mW/g

Reference Value = 9.81 V/m

Power Drift = -0.01 dB

Maximum value of SAR = 0.478 mW/g



Test Laboratory: Advance Data Technology

BANQ 56W10 Mode 4

DUT: Wireless LAN PCMCIA Card ; Type: 56W10 ; Test Channel Frequency: 1909.8 MHz

Communication System: PCS 1900 ; Frequency: 1909.8 MHz; Duty Cycle: 1:4; Modulation type: GMSK

Medium: MSL1900 ($\sigma = 1.567$ mho/m, $\epsilon_r = 52.6078$, $\rho = 1000$ kg/m³) ; Liquid level : 152mm

Phantom section: Flat Section ; Separation distance : 11mm(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(5, 5, 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 810/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 10.2 V/m

Power Drift = -0.07 dB

Maximum value of SAR = 0.494 mW/g

Channel 810/Zoon Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

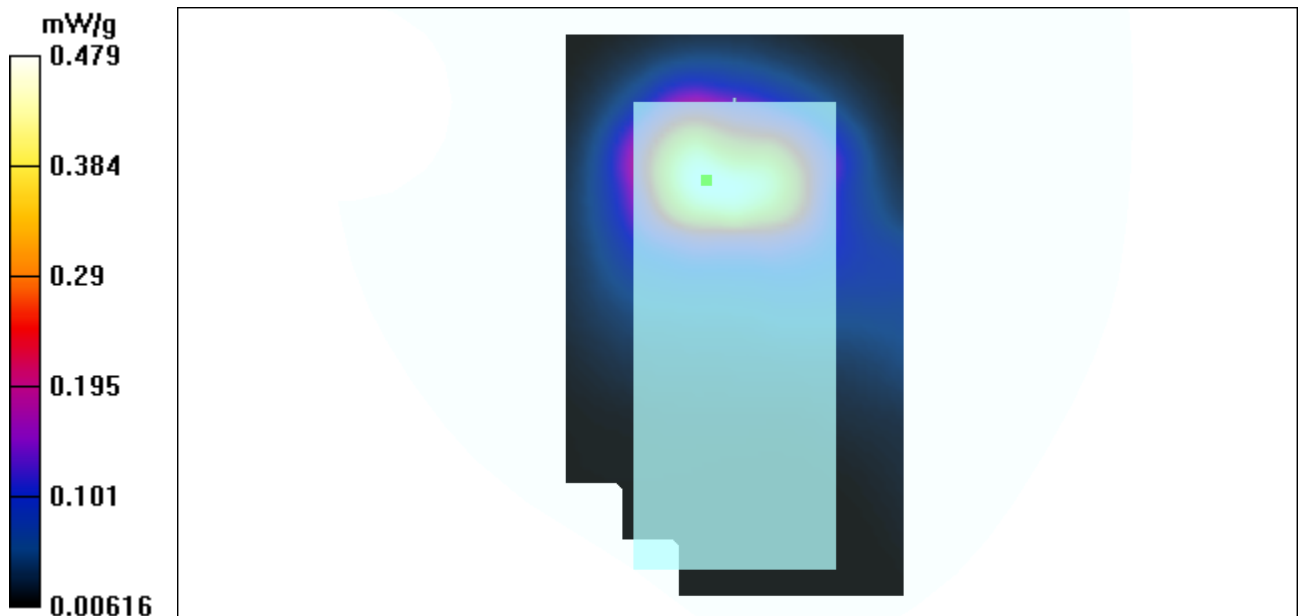
Peak SAR (extrapolated) = 0.83 W/kg

SAR(1 g) = 0.452 mW/g; SAR(10 g) = 0.244 mW/g

Reference Value = 10.2 V/m

Power Drift = -0.07 dB

Maximum value of SAR = 0.479 mW/g



Test Laboratory: Advance Data Technology

BANQ 56W10 Mode 5

DUT: BenQ W10 GPRS+Wireless LAN PCMCIA adapter ; Type: BenQ W10 GPRS+Wireless LAN PCMCIA adapter ; Test Channel Frequency: 1850.2 MHz

Communication System: PCS 1900 ; Frequency: 1850.2 MHz; Duty Cycle: 1:4; Modulation type: GMSK

Medium: MSL1900 ($\sigma = 1.501$ mho/m, $\epsilon_r = 52.9041$, $\rho = 1000$ kg/m³) ; Liquid level : 152mm

Phantom section: Flat Section ; Separation distance : 15mm(Tip side of the EUT to the Phantom)

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

DASY4 Configuration:

- Probe: ET3DV6 - SN1686; ConvF(5, 5, 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 512/Area Scan (41x61x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 12.5 V/m

Power Drift = 0.004 dB

Maximum value of SAR = 0.211 mW/g

Channel 512/Zoon Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

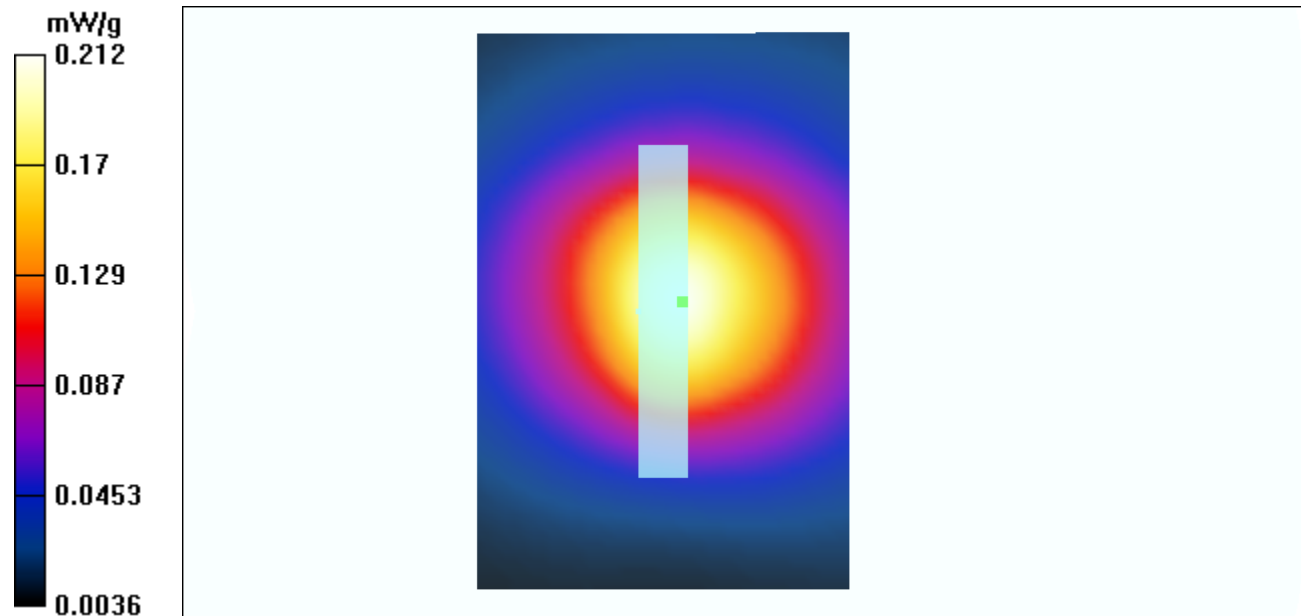
Peak SAR (extrapolated) = 0.355 W/kg

SAR(1 g) = 0.196 mW/g; SAR(10 g) = 0.109 mW/g

Reference Value = 12.5 V/m

Power Drift = 0.004 dB

Maximum value of SAR = 0.212 mW/g



Test Laboratory: Advance Data Technology

BANQ 56W10 Mode 5

DUT: BenQ W10 GPRS+Wireless LAN PCMCIA adapter ; Type: BenQ W10 GPRS+Wireless LAN PCMCIA adapter ; Test Channel Frequency: 1880 MHz

Communication System: PCS 1900 ; Frequency: 1880 MHz; Duty Cycle: 1:4; Modulation type: GMSK

Medium: MSL1900 ($\sigma = 1.531$ mho/m, $\epsilon_r = 52.7618$, $\rho = 1000$ kg/m³) ; Liquid level : 152mm

Phantom section: Flat Section ; Separation distance : 15mm(Tip side of the EUT to the Phantom)

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

DASY4 Configuration:

- Probe: ET3DV6 - SN1686; ConvF(5, 5, 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 661/Area Scan (41x61x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 12.9 V/m

Power Drift = -0.006 dB

Maximum value of SAR = 0.231 mW/g

Channel 661/Zoon Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

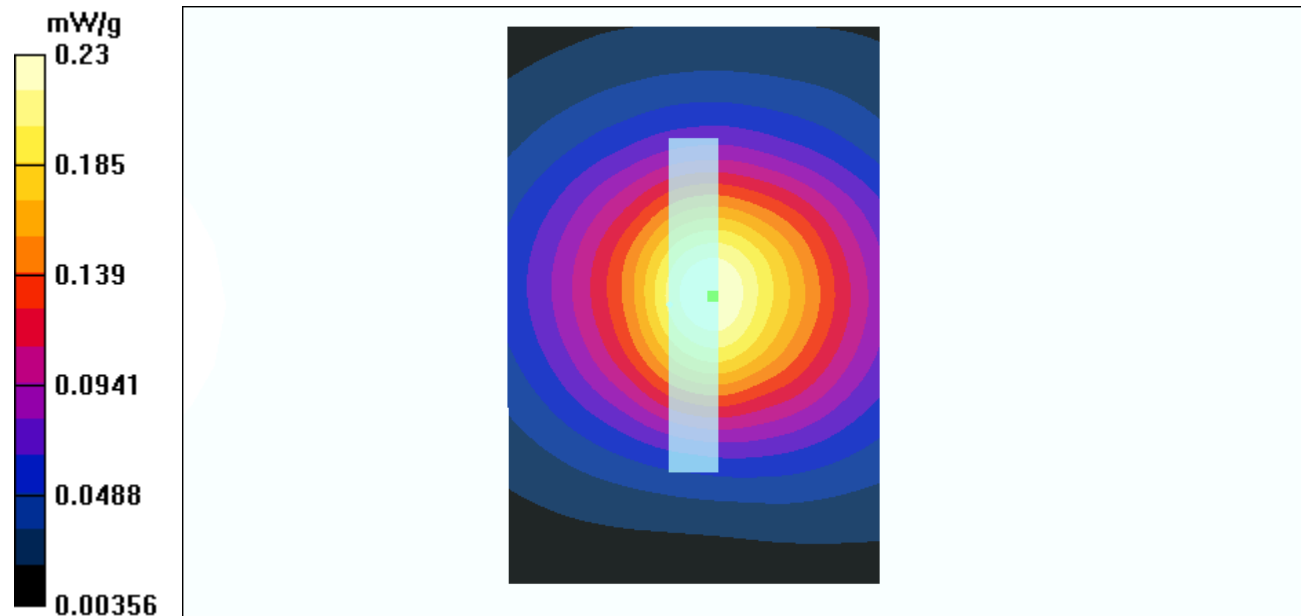
Peak SAR (extrapolated) = 0.386 W/kg

SAR(1 g) = 0.214 mW/g; SAR(10 g) = 0.118 mW/g

Reference Value = 12.9 V/m

Power Drift = -0.006 dB

Maximum value of SAR = 0.23 mW/g



Test Laboratory: Advance Data Technology

BANQ 56W10 Mode 5

DUT: BenQ W10 GPRS+Wireless LAN PCMCIA adapter ; Type: BenQ W10 GPRS+Wireless LAN PCMCIA adapter ; Test Channel Frequency: 1909.8 MHz

Communication System: PCS 1900 ; Frequency: 1909.8 MHz; Duty Cycle: 1:4; Modulation type: GMSK

Medium: MSL1900 ($\sigma = 1.567$ mho/m, $\epsilon_r = 52.6078$, $\rho = 1000$ kg/m³) ; Liquid level : 152mm

Phantom section: Flat Section ; Separation distance : 15mm(Tip side of the EUT to the Phantom)

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

DASY4 Configuration:

- Probe: ET3DV6 - SN1686; ConvF(5, 5, 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 810/Area Scan (41x61x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 13.4 V/m

Power Drift = 0.06 dB

Maximum value of SAR = 0.255 mW/g

Channel 810/Zoon Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

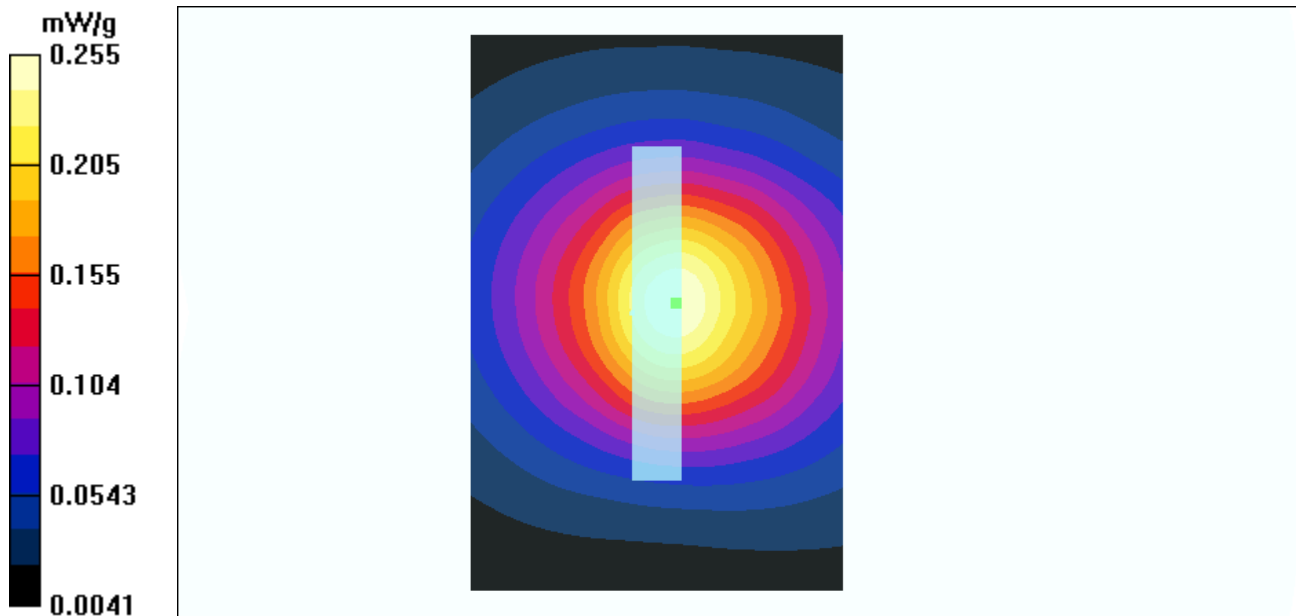
Peak SAR (extrapolated) = 0.436 W/kg

SAR(1 g) = 0.238 mW/g; SAR(10 g) = 0.131 mW/g

Reference Value = 13.4 V/m

Power Drift = 0.06 dB

Maximum value of SAR = 0.255 mW/g



Test Laboratory: Advance Data Technology

BANQ 56W10 Mode 6

DUT: Wireless LAN PCMCIA Card ; Type: 56W10 ; Test Channel Frequency: 1850.2 MHz

Communication System: PCS 1900 ; Frequency: 1850.2 MHz; Duty Cycle: 1:4; Modulation type: GMSK

Medium: MSL1900 ($\sigma = 1.501$ mho/m, $\epsilon_r = 52.9041$, $\rho = 1000$ kg/m³) ; Liquid level : 152mm

Phantom section: Flat Section ; Separation distance : 6mm(The Top 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(5, 5, 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 512/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 7.54 V/m

Power Drift = -0.2 dB

Maximum value of SAR = 0.623 mW/g

Channel 512/Zoon Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

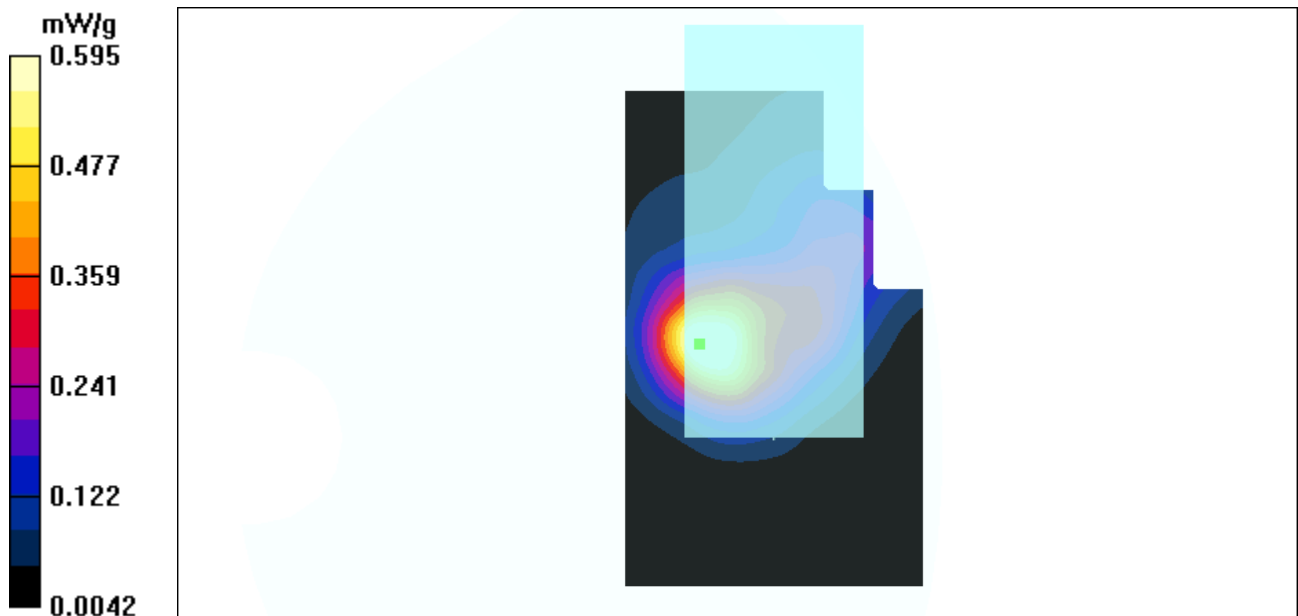
Peak SAR (extrapolated) = 1.19 W/kg

SAR(1 g) = 0.565 mW/g; SAR(10 g) = 0.285 mW/g

Reference Value = 7.54 V/m

Power Drift = -0.2 dB

Maximum value of SAR = 0.595 mW/g



Test Laboratory: Advance Data Technology

BANQ 56W10 Mode 6

DUT: Wireless LAN PCMCIA Card ; Type: 56W10 ; Test Channel Frequency: 1880 MHz

Communication System: PCS 1900 ; Frequency: 1880 MHz; Duty Cycle: 1:4; Modulation type: GMSK

Medium: MSL1900 ($\sigma = 1.531$ mho/m, $\epsilon_r = 52.7618$, $\rho = 1000$ kg/m³) ; Liquid level : 152mm

Phantom section: Flat Section ; Separation distance : 6mm(The Top 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(5, 5, 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 661/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 6.91 V/m

Power Drift = 0.1 dB

Maximum value of SAR = 0.575 mW/g

Channel 661/Zoon Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

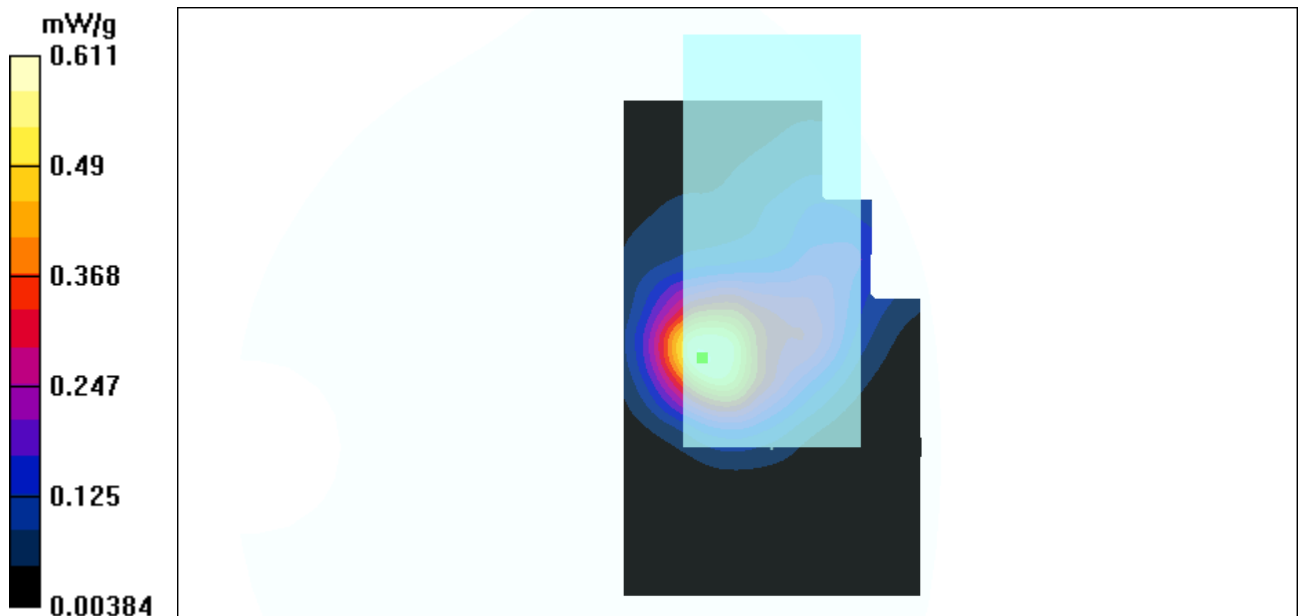
Peak SAR (extrapolated) = 1.23 W/kg

SAR(1 g) = 0.589 mW/g; SAR(10 g) = 0.297 mW/g

Reference Value = 6.91 V/m

Power Drift = 0.1 dB

Maximum value of SAR = 0.611 mW/g



Test Laboratory: Advance Data Technology

BANQ 56W10 Mode 6

DUT: Wireless LAN PCMCIA Card ; Type: 56W10 ; Test Channel Frequency: 1909.8 MHz

Communication System: PCS 1900 ; Frequency: 1909.8 MHz; Duty Cycle: 1:4; Modulation type: GMSK

Medium: MSL1900 ($\sigma = 1.567$ mho/m, $\epsilon_r = 52.6078$, $\rho = 1000$ kg/m³) ; Liquid level : 152mm

Phantom section: Flat Section ; Separation distance : 6mm(The Top 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(5, 5, 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 810/Area Scan (61x101x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 6.94 V/m

Power Drift = 0.2 dB

Maximum value of SAR = 0.621 mW/g

Channel 810/Zoon Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

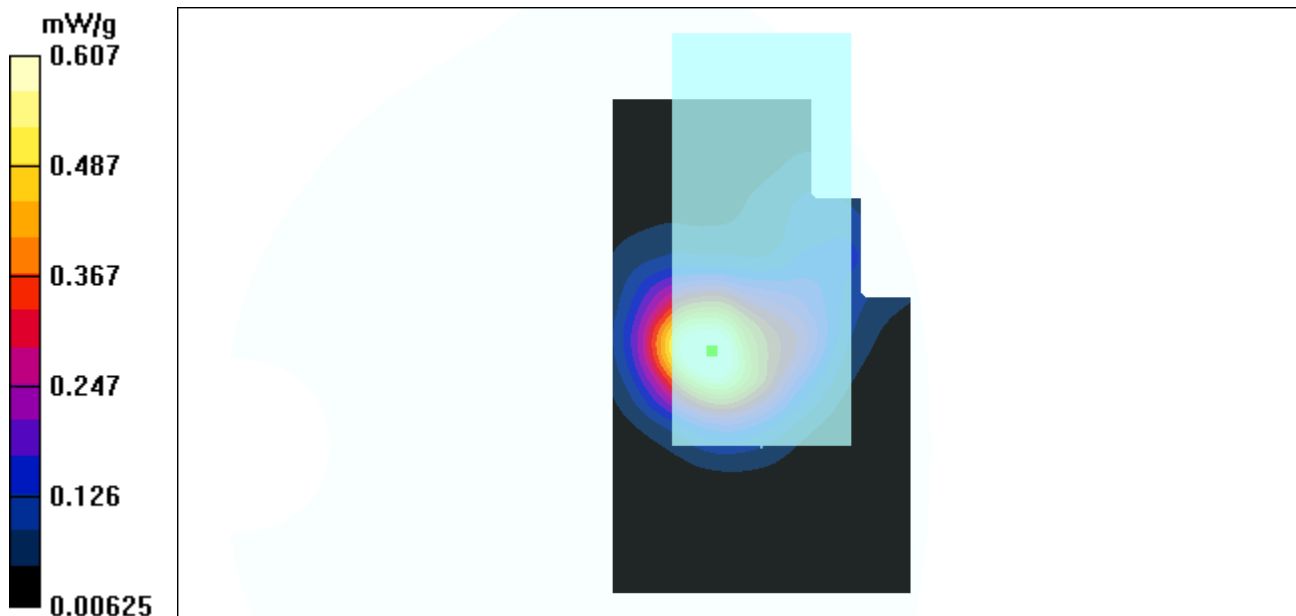
Peak SAR (extrapolated) = 1.24 W/kg

SAR(1 g) = 0.583 mW/g; SAR(10 g) = 0.296 mW/g

Reference Value = 6.94 V/m

Power Drift = 0.2 dB

Maximum value of SAR = 0.607 mW/g



Test Laboratory: Advance Data Technology

BANQ 56W10 Mode 1

DUT: Wireless LAN PCMCIA Card ; Type: 56W10 ; Test Channel Frequency: 2412 MHz

Communication System: 802.11b ; Frequency: 2412 MHz; Duty Cycle: 1:1; Modulation type: CCK
Medium: MSL2450 ($\sigma = 1.91 \text{ mho/m}$, $\epsilon_r = 51.92$, $\rho = 1000 \text{ kg/m}^3$) ; Liquid level : 155mm

Phantom section: Flat Section ; Separation distance : 11mm(The bottom of the EUT to the Phantom)

Antenna type : Dipole Antenna ; Air temp. : 22.0 degrees ; Liquid temp. : 21.0 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 = 17.8 V/m

Power Drift = -0.8 dB

Maximum value of SAR = 1.33 mW/g

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

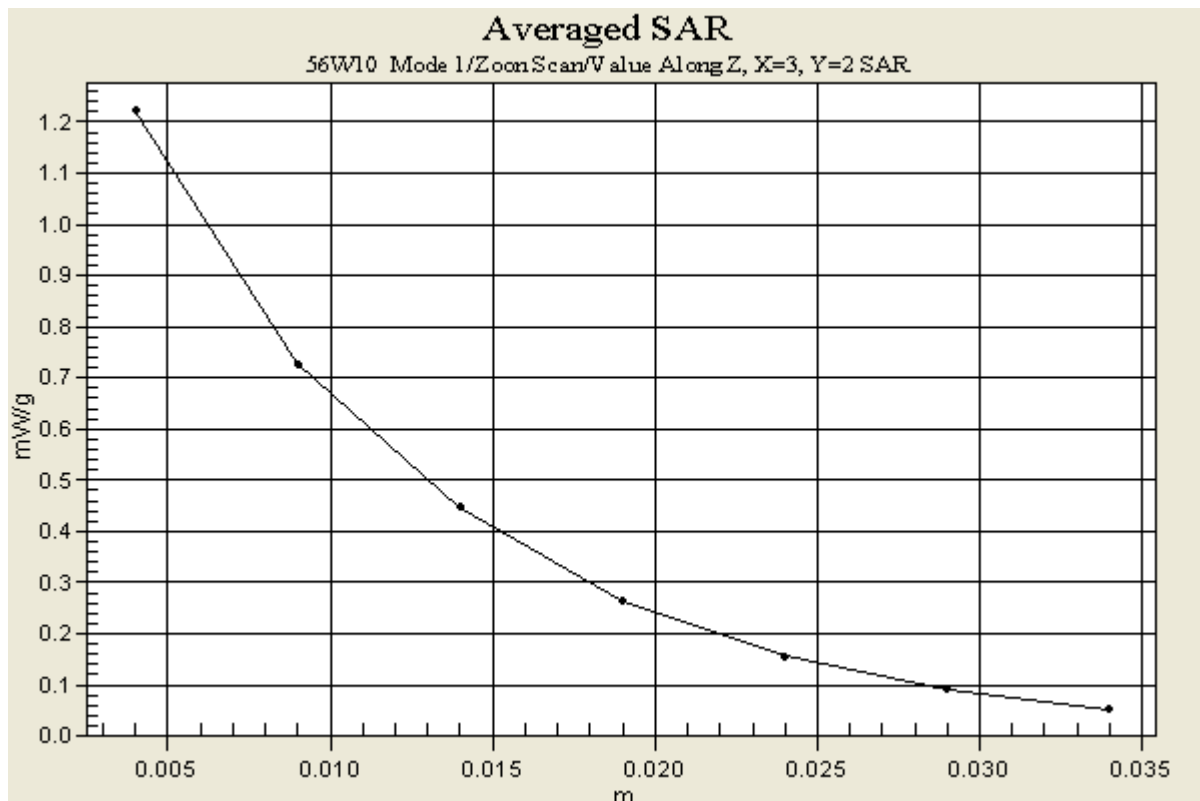
Peak SAR (extrapolated) = 2.05 W/kg

SAR(1 g) = 1.16 mW/g; SAR(10 g) = 0.648 mW/g

Reference Value = 17.8 V/m

Power Drift = -0.8 dB

Maximum value of SAR = 1.22 mW/g



A3 : SYSTEM VALIDATION TEST DATA

Date/Time: 09/09/03 09:11:20

Test Laboratory: Advance Data Technology

SystemPerformanceCheck-Head 1900-2003-09-09

DUT: Dipole 1900 MHz ; Type: D1900V2

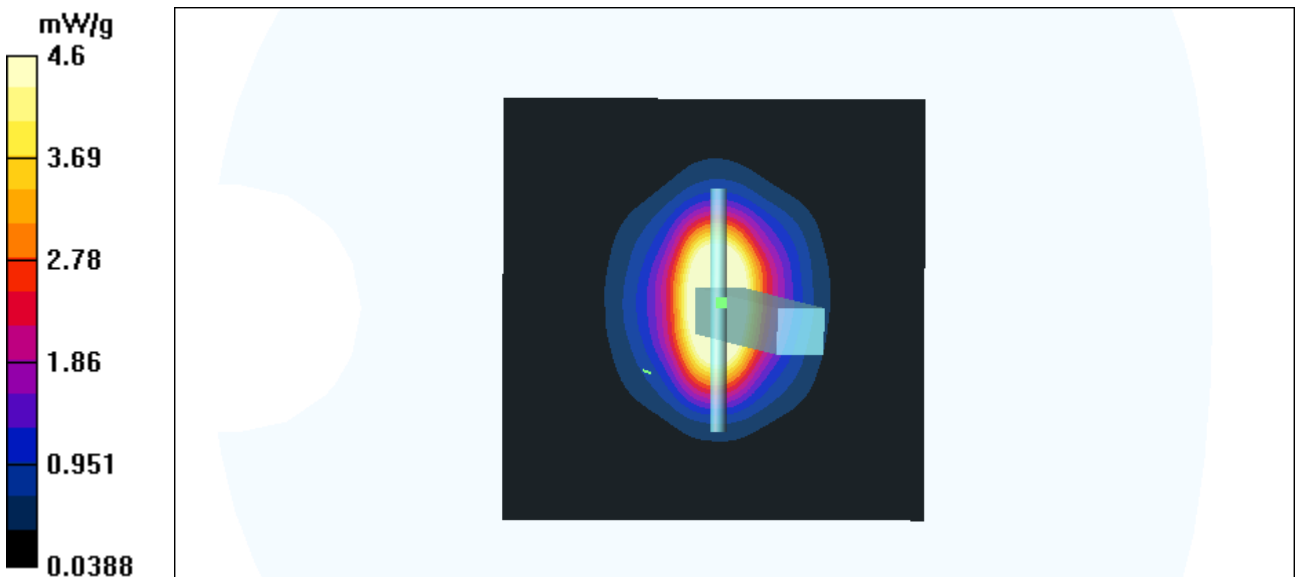
Communication System: CW ; Frequency: 1900 MHz; Duty Cycle: 1:1; Modulation type: CW
Medium: MSL1900 ($\sigma = 1.555$ mho/m, $\epsilon_r = 52.64$, $\rho = 1000$ kg/m³) ; Liquid level : 152mm
Phantom section: Flat Section ; Separation distance : 0mm(The feetpoint of the dipole to the Phantom)
Air temp. : 22.0 degrees ; Liquid temp. : 21 degrees

DASY4 Configuration:

- Probe: ET3DV6 - SN1686; ConvF(5.3, 5.3, 5.3); 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

d=10mm, Pin=100mW/Area Scan (61x61x1): Measurement grid: dx=15mm, dy=15mm
Reference Value = 49.8 V/m
Power Drift = -0.04 dB
Maximum value of SAR = 5.85mW/g

d=10mm, Pin=100mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Peak SAR (extrapolated) = 10.2 W/kg
SAR(1 g) = 4.2 mW/g; SAR(10 g) = 2.21 mW/g
Reference Value = 49.8 V/m
Power Drift = -0.04 dB
Maximum value of SAR = 5.87 mW/g



Test Laboratory: Advance Data Technology

SystemPerformanceCheck-Body 2450-2003-09-10

DUT: Dipole 2450 MHz ; Type: D2450V2

Communication System: CW ; Frequency: 2450 MHz; Duty Cycle: 1:1; Modulation type: CW
Medium: MSL2450 ($\sigma = 1.98$ mho/m, $\epsilon_r = 51.75$, $\rho = 1000$ kg/m³) ; Liquid level : 155mm
Phantom section: Flat Section ; Separation distance : 0mm(The feetpoint of the dipole to the Phantom)
Air temp. : 22.0 degrees ; Liquid temp. : 21.0 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

d=10mm, Pin=100mW/Area Scan (61x61x1): Measurement grid: dx=15mm, dy=15mm
Reference Value = 59.7 V/m
Power Drift = -0.01 dB
Maximum value of SAR = 6.25 mW/g

d=10mm, Pin=100mW/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Peak SAR (extrapolated) = 12.4 W/kg
SAR(1 g) = 5.81 mW/g; SAR(10 g) = 2.58 mW/g
Reference Value = 60.0 V/m
Power Drift = -0.01 dB
Maximum value of SAR = 6.28 mW/g

