
Appendix for the Report

Dosimetric Assessment of the BenQ Siemens SL91 (FCC ID: PWX-SL91)

According to the FCC Requirements

SAR Distribution Plots

August 29, 2006
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The test results only relate to the items tested.
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1 SAR Distribution Plots, PCS 1900 Head, slider up

Test Laboratory: Imst GmbH, DASY Yellow (II); File Name: [575yplm_1_su.da4](#)

DUT: BenQ Siemens ; Type: SL91; Serial: 004401410210575

Program Name: Cheek Left

Communication System: GSM 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.39$ mho/m; $\epsilon_r = 38.8$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(8.25, 8.25, 8.25); Calibrated: 23.09.2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 09.03.2006
- Phantom: SAM Glycol 1340; Type: QD 000 P40 CB; Serial: TP-1340
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Cheek Left/Area Scan (7x12x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.149 mW/g

Cheek Left/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 5.23 V/m; Power Drift = 0.121 dB

Peak SAR (extrapolated) = 0.224 W/kg

SAR(1 g) = 0.137 mW/g; SAR(10 g) = 0.079 mW/g

Maximum value of SAR (measured) = 0.151 mW/g

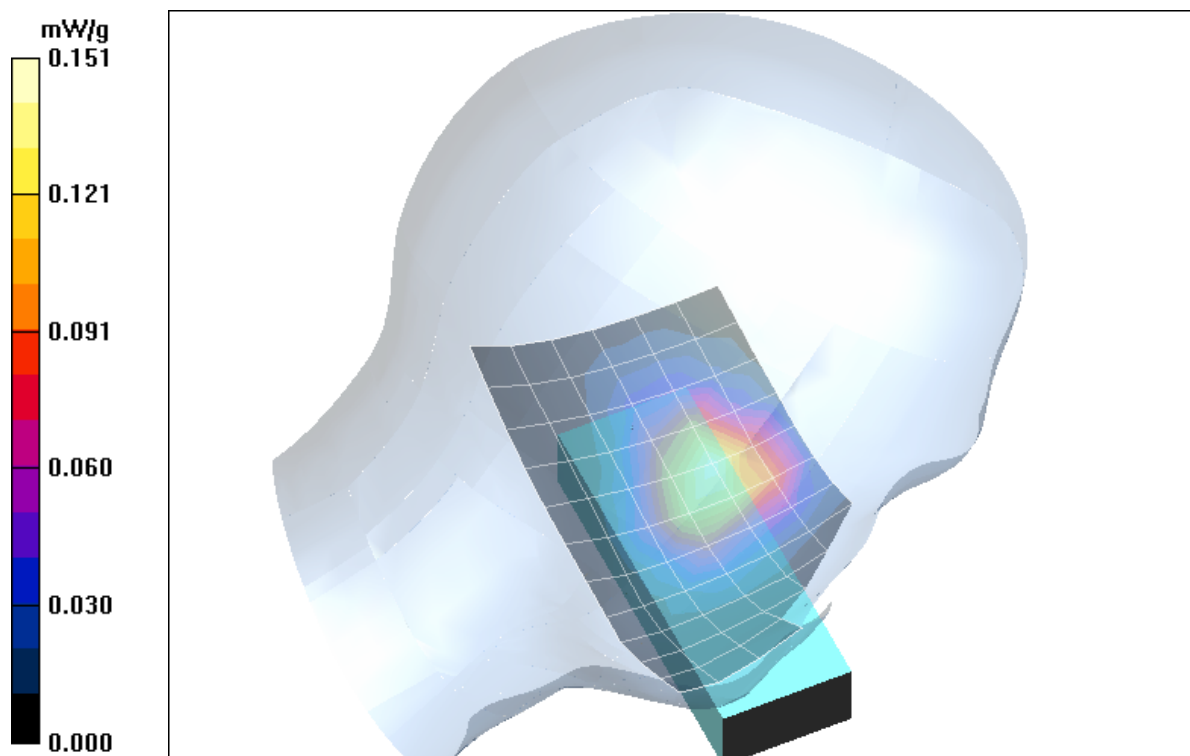


Fig. 1: SAR distribution for PCS 1900, channel 661, cheek position, left side of head (August 21, 2006; Ambient Temperature: 21.6° C; Liquid Temperature: 20.8° C).

Test Laboratory: Imst GmbH, DASY Yellow (II); **File Name:** [575yplm 2 su.da4](#)

DUT: BenQ Siemens ; **Type:** SL91; **Serial:** 004401410210575

Program Name: Tilted Left

Communication System: GSM 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.39$ mho/m; $\epsilon_r = 38.8$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(8.25, 8.25, 8.25); Calibrated: 23.09.2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 09.03.2006
- Phantom: SAM Glycol 1340; Type: QD 000 P40 CB; Serial: TP-1340
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Tilted Left/Area Scan (6x12x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.127 mW/g

Tilted Left/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 7.60 V/m; Power Drift = 0.038 dB

Peak SAR (extrapolated) = 0.187 W/kg

SAR(1 g) = 0.119 mW/g; SAR(10 g) = 0.070 mW/g

Maximum value of SAR (measured) = 0.128 mW/g

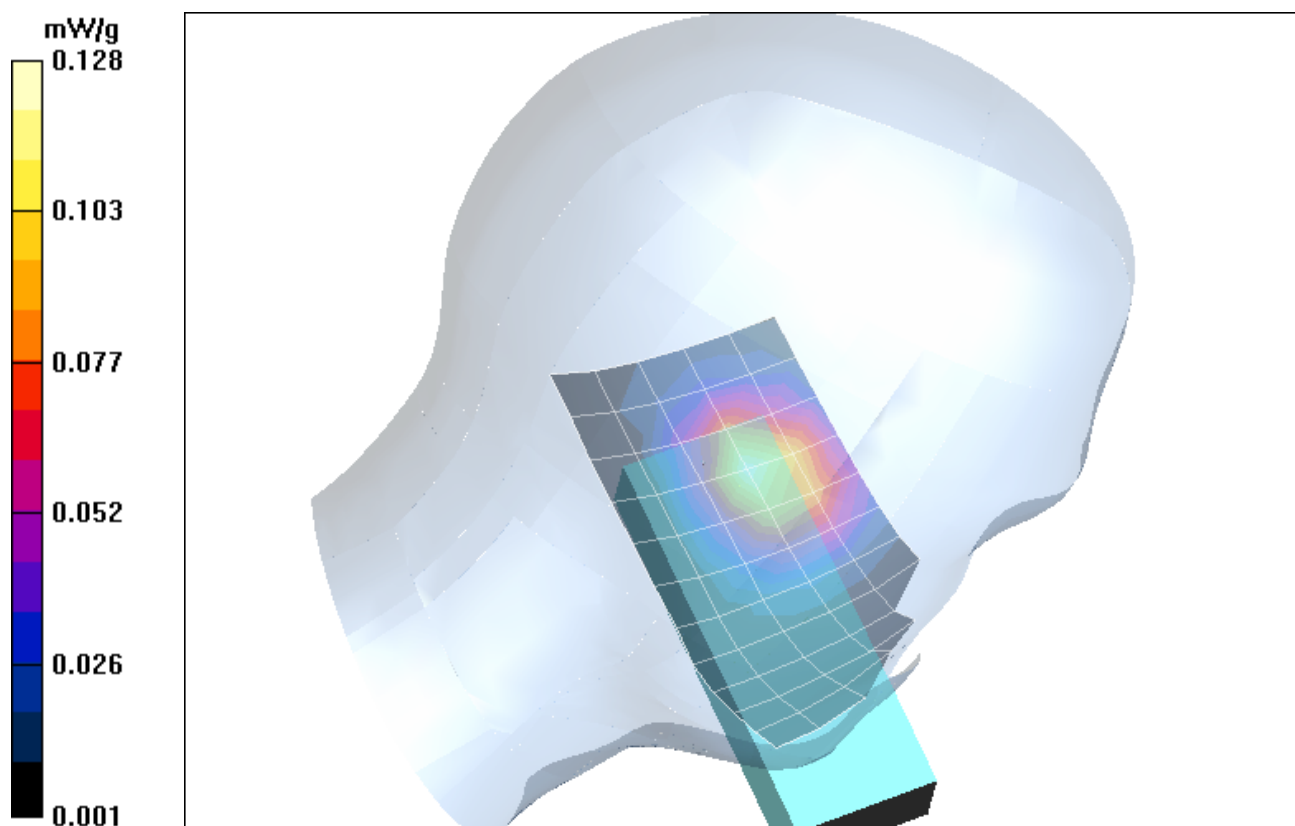


Fig. 2: SAR distribution for PCS 1900, channel 661, tilted position, left side of head (August 21, 2006; Ambient Temperature: 21.6° C; Liquid Temperature: 20.8° C).

Test Laboratory: Imst GmbH, DASY Yellow (II); **File Name:** [575yprm_1_su.da4](#)

DUT: BenQ Siemens ; **Type:** SL91; **Serial:** 004401410210575

Program Name: Cheek Right

Communication System: GSM 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.39$ mho/m; $\epsilon_r = 38.8$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(8.25, 8.25, 8.25); Calibrated: 23.09.2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 09.03.2006
- Phantom: SAM Glycol 1340; Type: QD 000 P40 CB; Serial: TP-1340
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Cheek Right/Area Scan (6x12x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.105 mW/g

Cheek Right/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 5.69 V/m; Power Drift = -0.072 dB

Peak SAR (extrapolated) = 0.149 W/kg

SAR(1 g) = 0.107 mW/g; SAR(10 g) = 0.067 mW/g

Maximum value of SAR (measured) = 0.117 mW/g

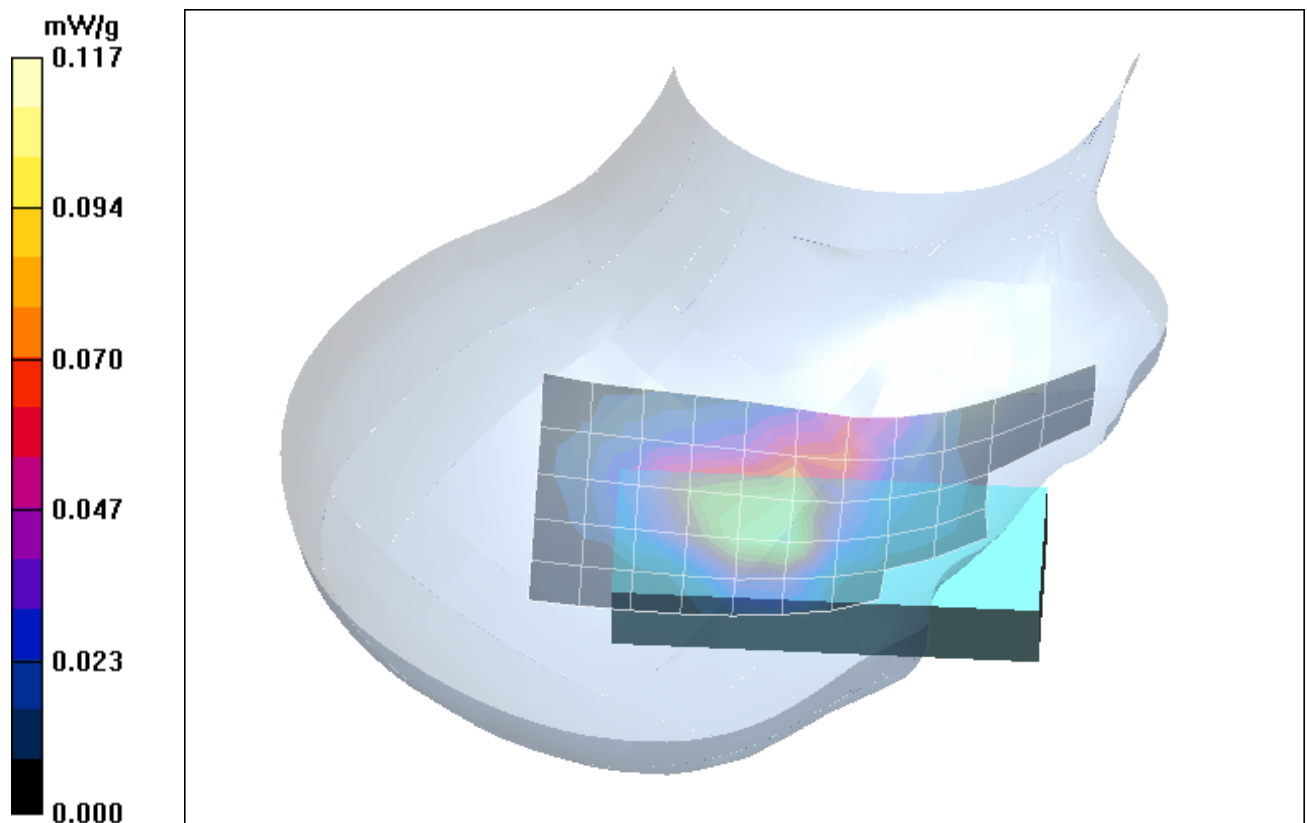


Fig. 3: SAR distribution for PCS 1900, channel 661, cheek position, right side of head (August 21, 2006; Ambient Temperature: 21.6° C; Liquid Temperature: 20.8° C).

Test Laboratory: Imst GmbH, DASY Yellow (II); **File Name:** [575yprm 2 su.da4](#)

DUT: BenQ Siemens ; **Type:** SL91; **Serial:** 004401410210575

Program Name: Tilted Right

Communication System: GSM 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.39$ mho/m; $\epsilon_r = 38.8$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(8.25, 8.25, 8.25); Calibrated: 23.09.2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 09.03.2006
- Phantom: SAM Glycol 1340; Type: QD 000 P40 CB; Serial: TP-1340
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Tilted Right/Area Scan (6x12x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.096 mW/g

Tilted Right/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 6.84 V/m; Power Drift = 0.041 dB

Peak SAR (extrapolated) = 0.139 W/kg

SAR(1 g) = 0.088 mW/g; SAR(10 g) = 0.052 mW/g

Maximum value of SAR (measured) = 0.095 mW/g

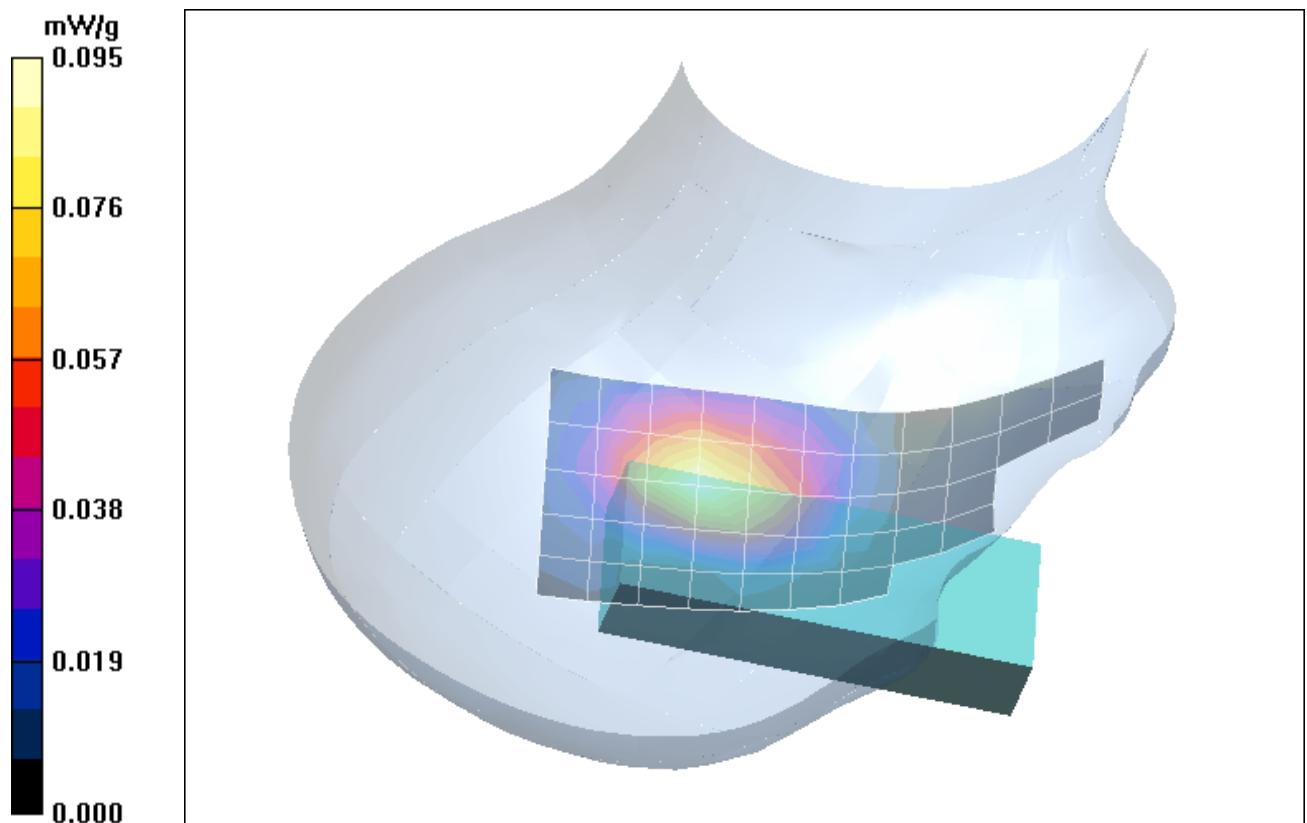


Fig. 4: SAR distribution for PCS 1900, channel 661, tilted position, right side of head (August 21, 2006; Ambient Temperature: 21.6 °C; Liquid Temperature: 20.8° C)

2 SAR Distribution Plots, PCS 1900 Head, slider down

Test Laboratory: Imst GmbH, DASY Yellow (II); File Name: [575yplm_1_sd.da4](#)

DUT: BenQ Siemens ; Type: SL91; Serial: 004401410210575

Program Name: Cheek Left

Communication System: GSM 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.39$ mho/m; $\epsilon_r = 38.8$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(8.25, 8.25, 8.25); Calibrated: 23.09.2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 09.03.2006
- Phantom: SAM Glycol 1340; Type: QD 000 P40 CB; Serial: TP-1340
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Cheek Left/Area Scan (7x10x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.117 mW/g

Cheek Left/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 7.11 V/m; Power Drift = 0.042 dB

Peak SAR (extrapolated) = 0.192 W/kg

SAR(1 g) = 0.110 mW/g; SAR(10 g) = 0.061 mW/g

Maximum value of SAR (measured) = 0.121 mW/g

Cheek Left/Zoom Scan (7x7x7)/Cube 1: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 7.11 V/m; Power Drift = 0.042 dB

Peak SAR (extrapolated) = 0.090 W/kg

SAR(1 g) = 0.061 mW/g; SAR(10 g) = 0.038 mW/g

Maximum value of SAR (measured) = 0.067 mW/g

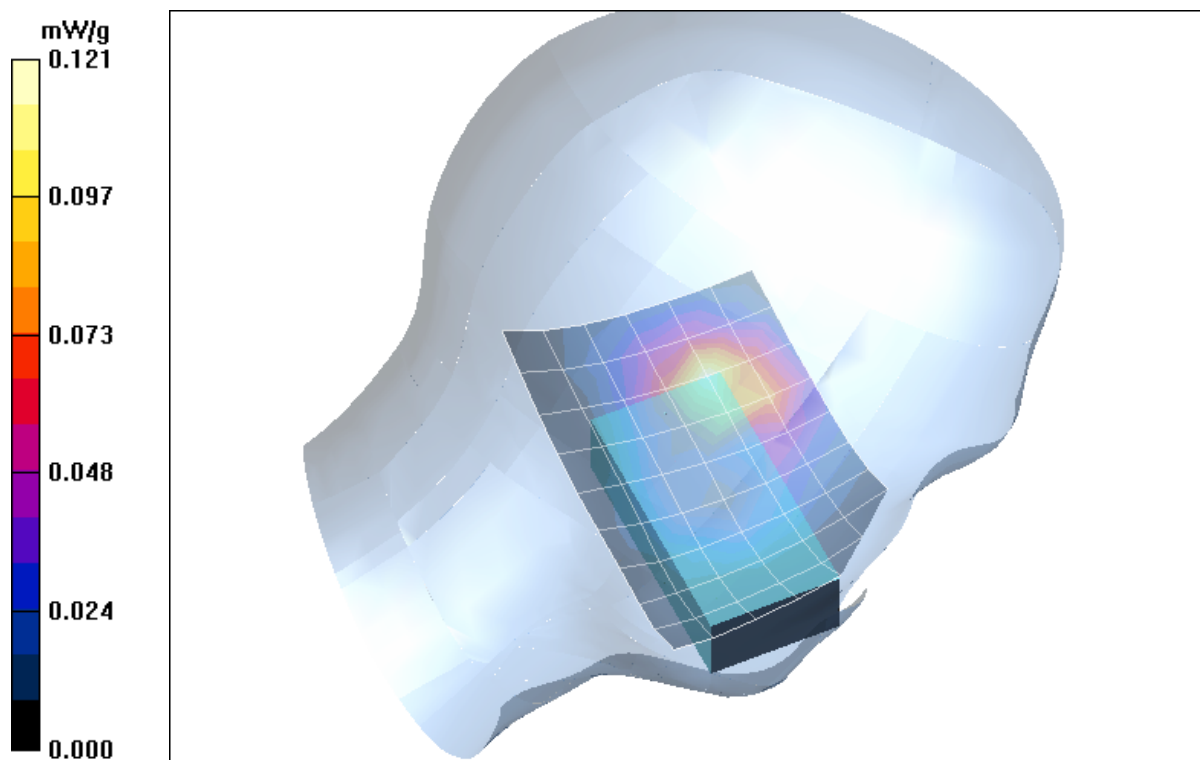


Fig. 5: SAR distribution for PCS 1900, channel 661, cheek position, left side of head (August 21, 2006; Ambient Temperature: 21.7° C; Liquid Temperature: 20.8° C).

Test Laboratory: Imst GmbH, DASY Yellow (II); **File Name:** [575yplm 2 sd.da4](#)

DUT: BenQ Siemens ; **Type:** SL91; **Serial:** 004401410210575

Program Name: Tilted Left

Communication System: GSM 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.39$ mho/m; $\epsilon_r = 38.8$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(8.25, 8.25, 8.25); Calibrated: 23.09.2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 09.03.2006
- Phantom: SAM Glycol 1340; Type: QD 000 P40 CB; Serial: TP-1340
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Tilted Left/Area Scan (6x10x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.112 mW/g

Tilted Left/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 7.60 V/m; Power Drift = 0.031 dB

Peak SAR (extrapolated) = 0.190 W/kg

SAR(1 g) = 0.110 mW/g; SAR(10 g) = 0.0611 mW/g

Maximum value of SAR (measured) = 0.121 mW/g

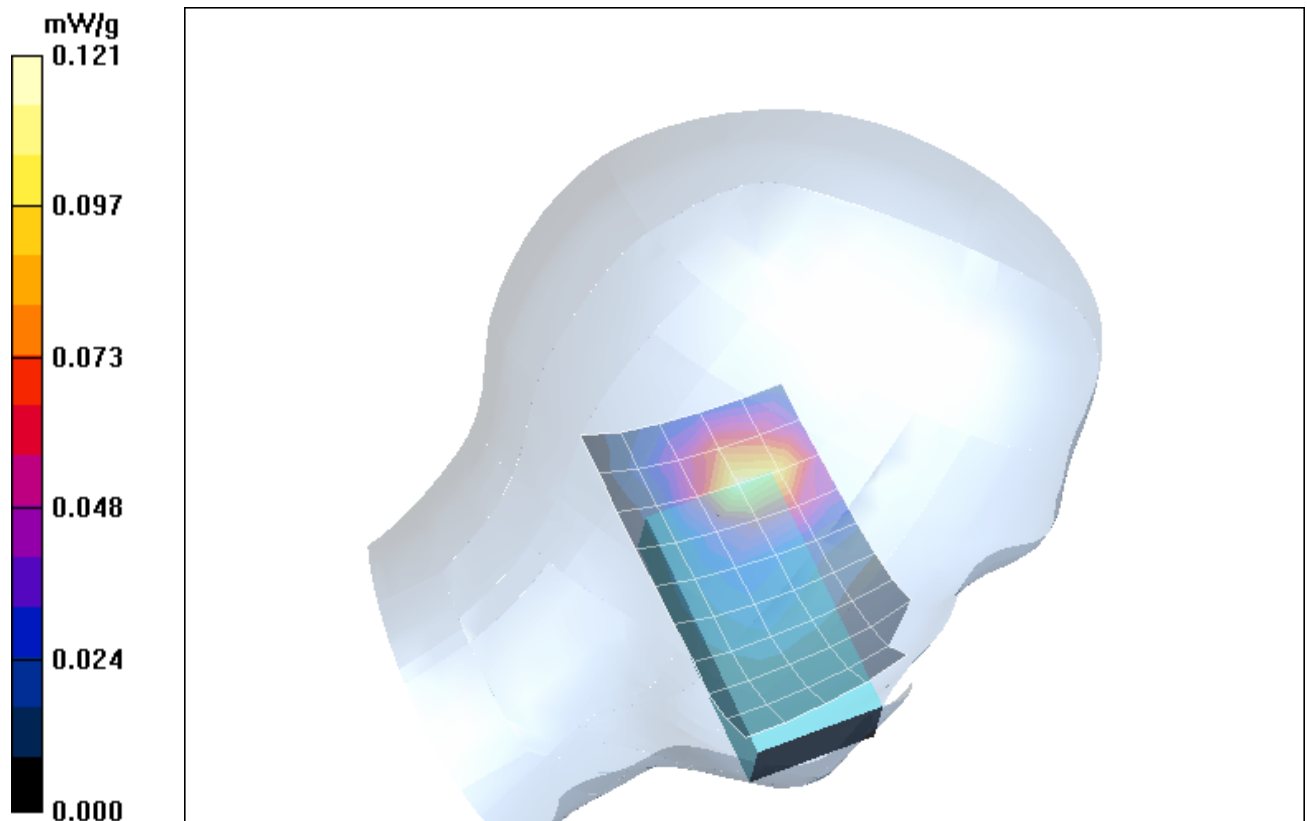


Fig. 6: SAR distribution for PCS 1900, channel 661, tilted position, left side of head (August 21, 2006; Ambient Temperature: 21.7° C; Liquid Temperature: 20.8° C).

Test Laboratory: Imst GmbH, DASY Yellow (II); File Name: [575yprm_1_sd.da4](#)

DUT: BenQ Siemens ; Type: SL91; Serial: 004401410210575

Program Name: Cheek Right

Communication System: GSM 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.39$ mho/m; $\epsilon_r = 38.8$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(8.25, 8.25, 8.25); Calibrated: 23.09.2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 09.03.2006
- Phantom: SAM Glycol 1340; Type: QD 000 P40 CB; Serial: TP-1340
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Cheek Right/Area Scan (6x10x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.104 mW/g

Cheek Right/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 7.44 V/m; Power Drift = -0.136 dB

Peak SAR (extrapolated) = 0.177 W/kg

SAR(1 g) = 0.106 mW/g; SAR(10 g) = 0.0614 mW/g

Maximum value of SAR (measured) = 0.117 mW/g

Cheek Right/Zoom Scan (7x7x7)/Cube 1: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 7.44 V/m; Power Drift = -0.136 dB

Peak SAR (extrapolated) = 0.142 W/kg

SAR(1 g) = 0.082 mW/g; SAR(10 g) = 0.048 mW/g

Maximum value of SAR (measured) = 0.108 mW/g

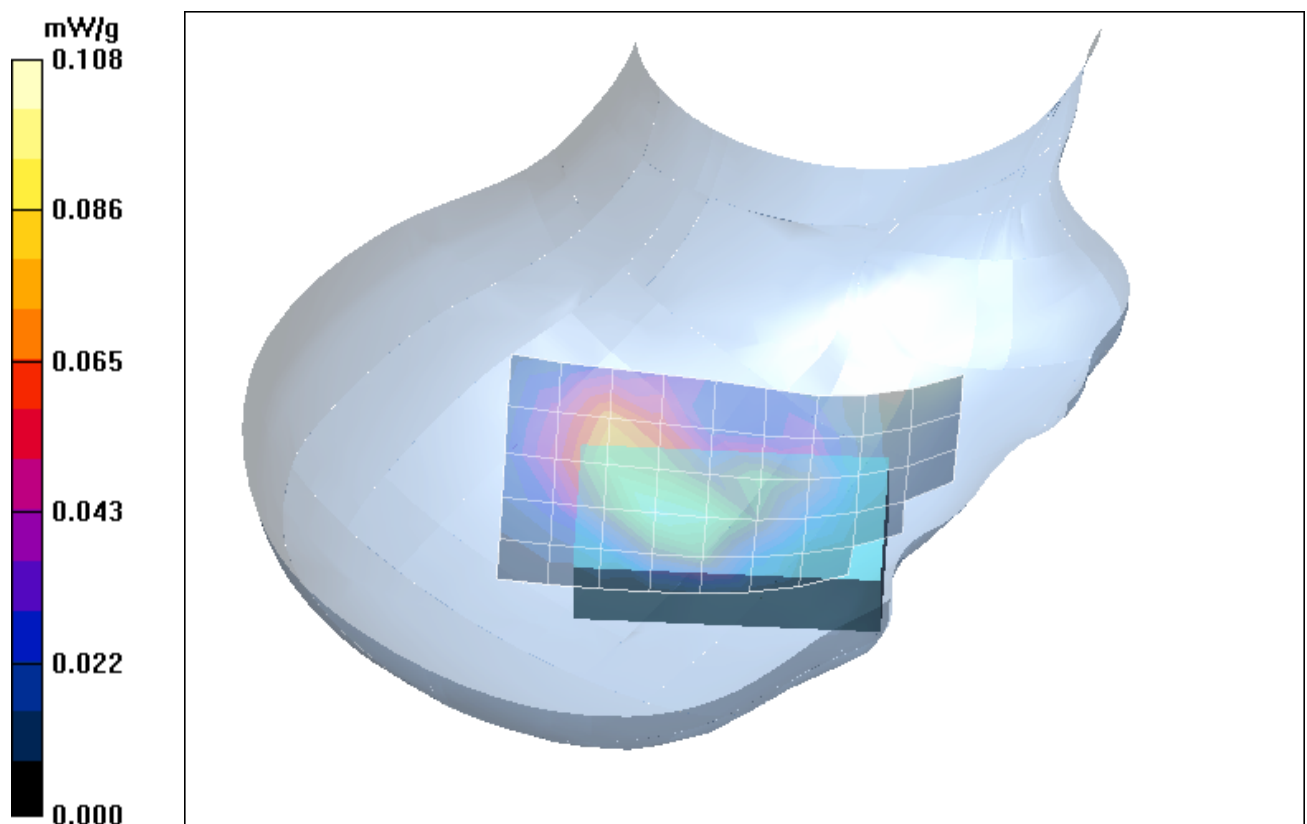


Fig. 7: SAR distribution for PCS 1900, channel 661, cheek position, right side of head (August 21, 2006; Ambient Temperature: 21.7° C; Liquid Temperature: 20.8° C).

Test Laboratory: Imst GmbH, DASY Yellow (II); **File Name:** [575yprm 2 sd.da4](#)

DUT: BenQ Siemens ; **Type:** SL91; **Serial:** 004401410210575

Program Name: Tilted Right

Communication System: GSM 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.39$ mho/m; $\epsilon_r = 38.8$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(8.25, 8.25, 8.25); Calibrated: 23.09.2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 09.03.2006
- Phantom: SAM Glycol 1340; Type: QD 000 P40 CB; Serial: TP-1340
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Tilted Right/Area Scan (6x10x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.092 mW/g

Tilted Right/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 7.35 V/m; Power Drift = -0.047 dB

Peak SAR (extrapolated) = 0.148 W/kg

SAR(1 g) = 0.084 mW/g; SAR(10 g) = 0.047 mW/g

Maximum value of SAR (measured) = 0.093 mW/g

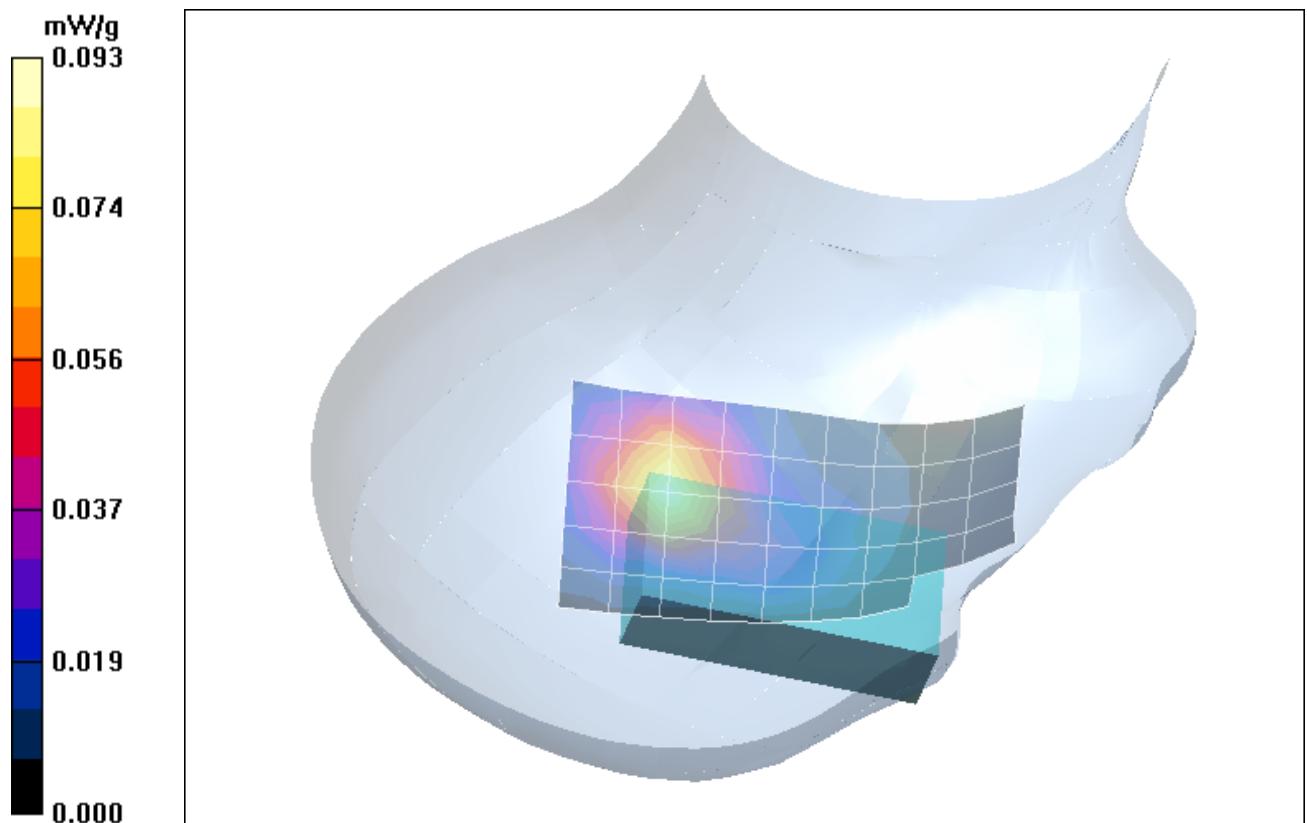


Fig. 8: SAR distribution for PCS 1900, channel 661, tilted position, right side of head (August 21, 2006; Ambient Temperature: 21.7 °C; Liquid Temperature: 20.8° C)

3 SAR Distribution Plots, PCS 1900 Head, worst case with BT

Test Laboratory: Imst GmbH, DASY Yellow (II); File Name: [575yplm_1_su_bt.da4](#)

DUT: BenQ Siemens ; Type: SL91; Serial: 004401410210575

Program Name: Cheek Left

Communication System: GSM 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.39$ mho/m; $\epsilon_r = 38.8$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(8.25, 8.25, 8.25); Calibrated: 23.09.2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 09.03.2006
- Phantom: SAM Glycol 1340; Type: QD 000 P40 CB; Serial: TP-1340
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Cheek Left/Area Scan (7x12x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.142 mW/g

Cheek Left/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 5.52 V/m; Power Drift = 0.195 dB

Peak SAR (extrapolated) = 0.233 W/kg

SAR(1 g) = 0.135 mW/g; SAR(10 g) = 0.077 mW/g

Maximum value of SAR (measured) = 0.147 mW/g

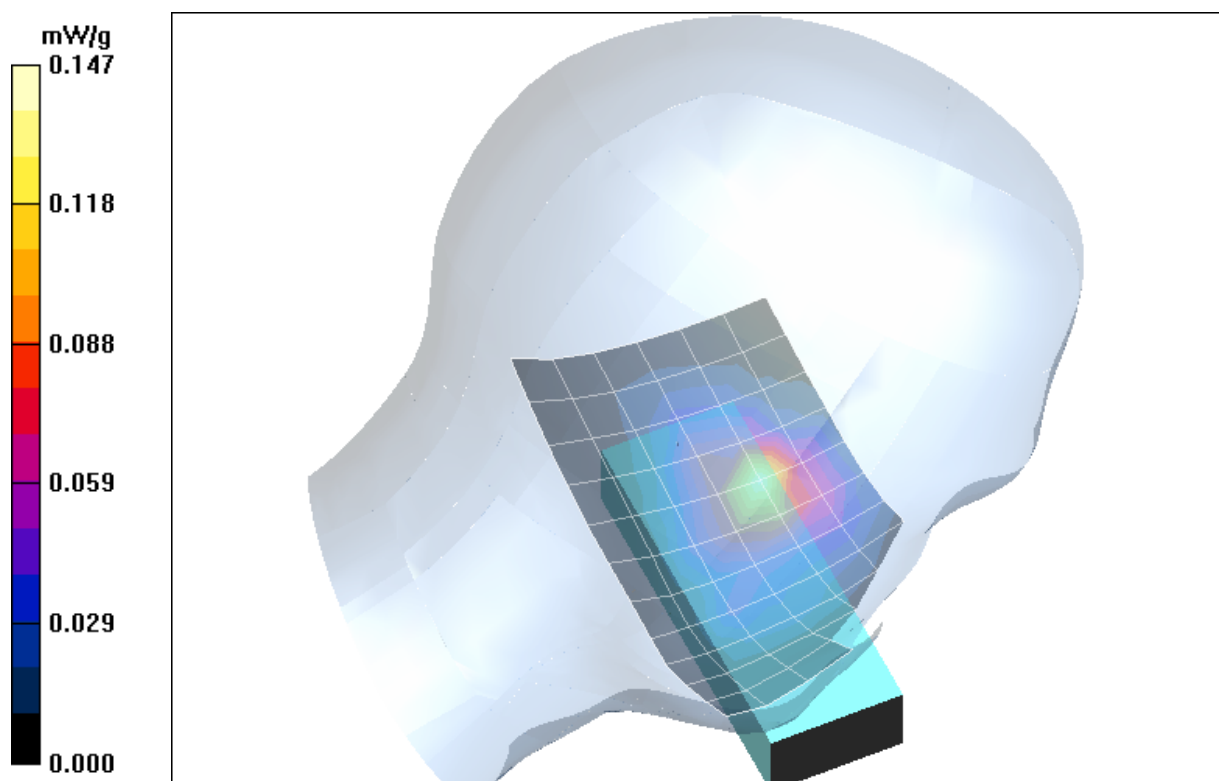


Fig. 9: SAR distribution for PCS 1900, channel 661, cheek position, left side of head , slider up (August 21, 2006; Ambient Temperature: 21.6° C; Liquid Temperature: 20.8° C).

4 SAR Distribution Plots, PCS 1900 Body with slider up

Test Laboratory: IMST GmbH, DASY Blue (I); File Name: [575bphm 5 ohne 10mm su.da4](#)

DUT: BenQ Siemens ; Type: SL91; Serial: 004401410210575

Program Name: Body Worn

Communication System: GSM 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.51$ mho/m; $\epsilon_r = 53.9$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6R - SN1669; ConvF(4.47, 4.47, 4.47); Calibrated: 15.02.2006
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn631; Calibrated: 11.07.2006
- Phantom: SAM Glycol 1176; Type: Speag; Serial: 1176
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body Worn/Area Scan (7x11x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.431 mW/g

Body Worn/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 14.3 V/m; Power Drift = 0.039 dB

Peak SAR (extrapolated) = 0.756 W/kg

SAR(1 g) = 0.402 mW/g; SAR(10 g) = 0.233 mW/g

Maximum value of SAR (measured) = 0.438 mW/g

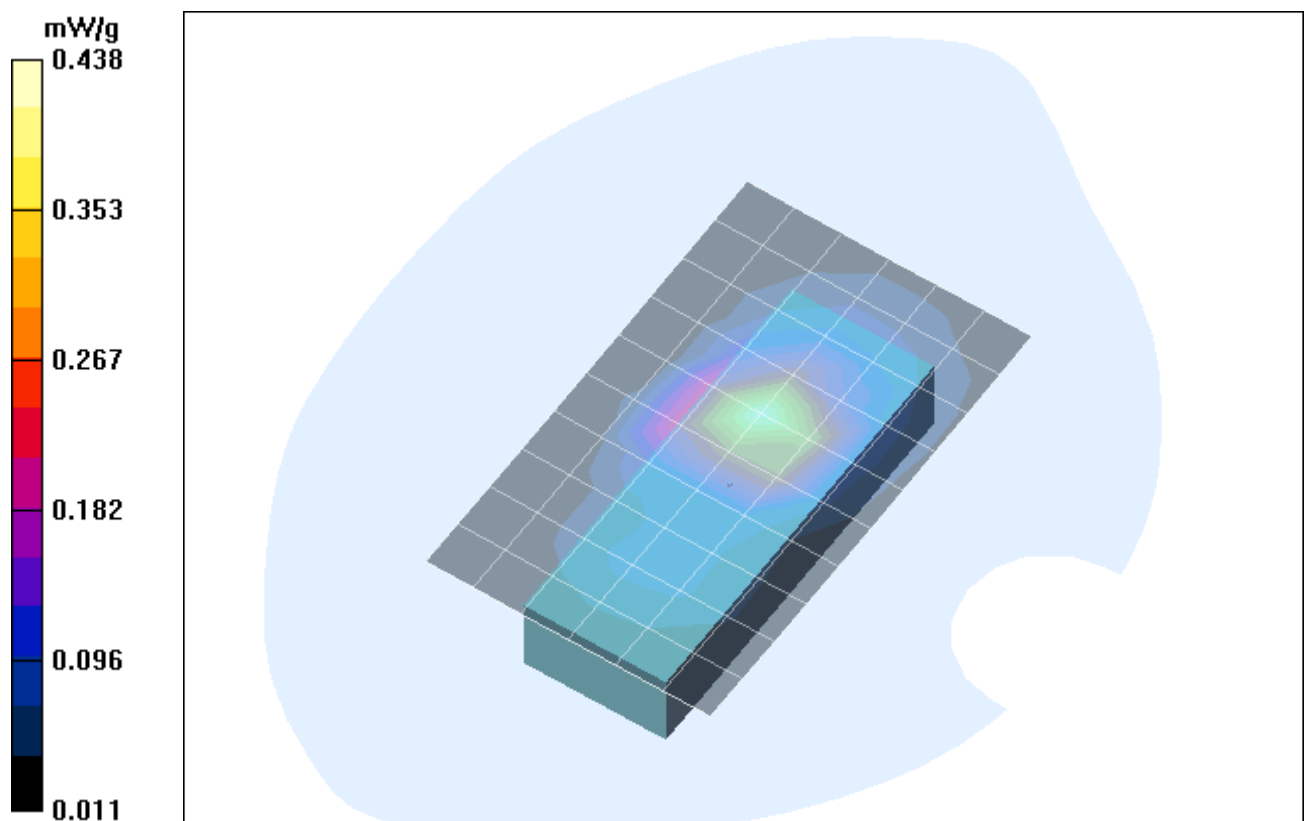


Fig. 10: SAR distribution for PCS 1900, channel 661, body worn configuration, antenna towards the phantom, without accessory, 10 mm distance (August 28, 2006; Ambient Temperature: 22.0° C; Liquid Temperature: 21.2° C).

Test Laboratory: IMST GmbH, DASY Blue (I); **File Name:** [575bphm 6 headset 10mm su.da4](#)

DUT: BenQ Siemens ; **Type:** SL91; **Serial:** 004401410210575

Program Name: Body Worn

Communication System: GSM 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.51$ mho/m; $\epsilon_r = 53.9$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6R - SN1669; ConvF(4.47, 4.47, 4.47); Calibrated: 15.02.2006
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn631; Calibrated: 11.07.2006
- Phantom: SAM Glycol 1176; Type: Speag; Serial: 1176
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body Worn/Area Scan (7x11x1): Measurement grid: dx=15mm, dy=15mm

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

Body Worn/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 13.9 V/m; Power Drift = -0.045 dB

Peak SAR (extrapolated) = 0.622 W/kg

SAR(1 g) = 0.377 mW/g; SAR(10 g) = 0.222 mW/g

Maximum value of SAR (measured) = 0.426 mW/g

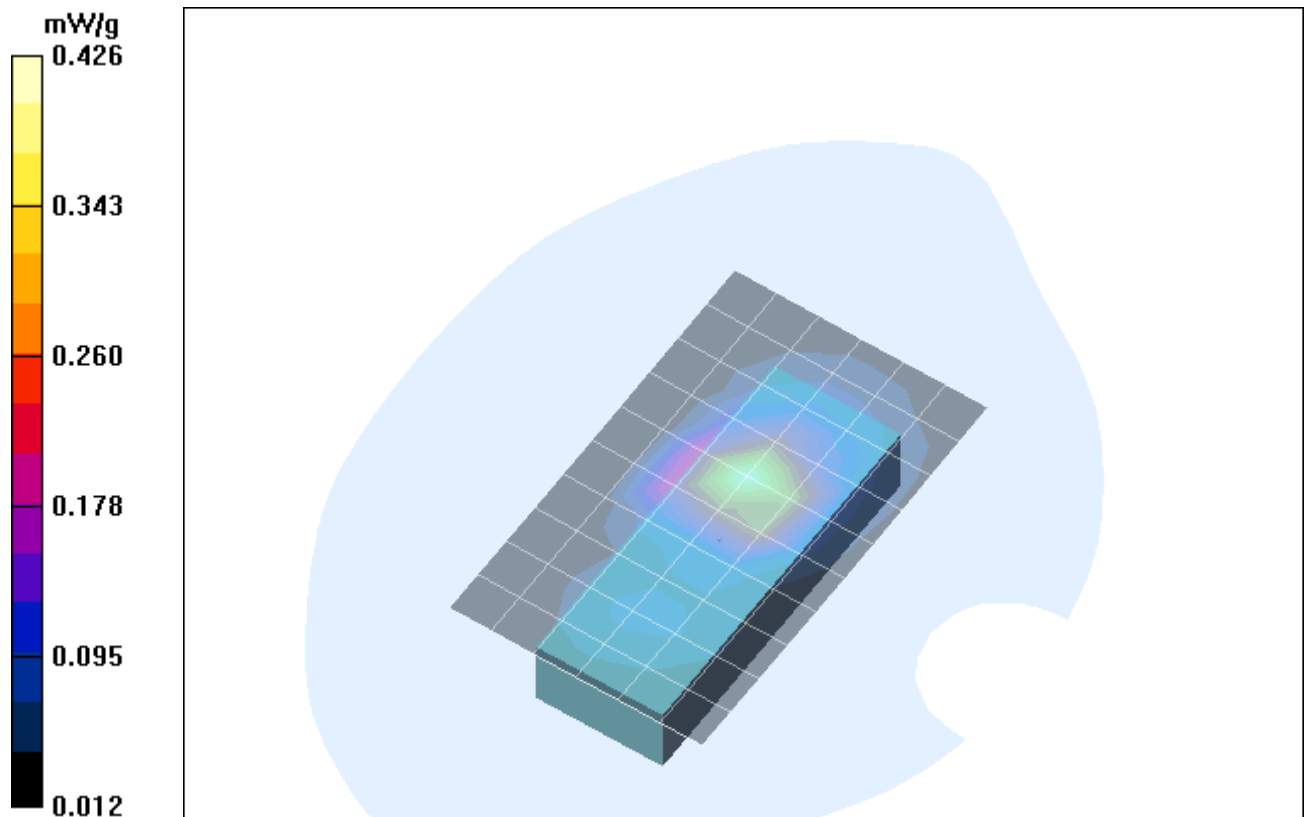


Fig. 11: SAR distribution for PCS 1900, channel 661, body worn configuration, antenna towards the phantom, with headset with 10 mm distance (August 28, 2006; Ambient Temperature: 22.0° C; Liquid Temperature: 21.2° C).

Test Laboratory: IMST GmbH, DASY Blue (I); File Name: [575bphm 7 ohne 10mm su.da4](#)

DUT: BenQ Siemens ; Type: SL91; Serial: 004401410210575

Program Name: Body Worn

Communication System: GPRS 1900; Frequency: 1880 MHz; Duty Cycle: 1:4

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.51$ mho/m; $\epsilon_r = 53.9$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6R - SN1669; ConvF(4.47, 4.47, 4.47); Calibrated: 15.02.2006
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn631; Calibrated: 11.07.2006
- Phantom: SAM Glycol 1176; Type: Speag; Serial: 1176
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body Worn/Area Scan (7x11x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.871 mW/g

Body Worn/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 19.9 V/m; Power Drift = -0.015 dB

Peak SAR (extrapolated) = 1.23 W/kg

SAR(1 g) = 0.739 mW/g; SAR(10 g) = 0.445 mW/g

Maximum value of SAR (measured) = 0.846 mW/g

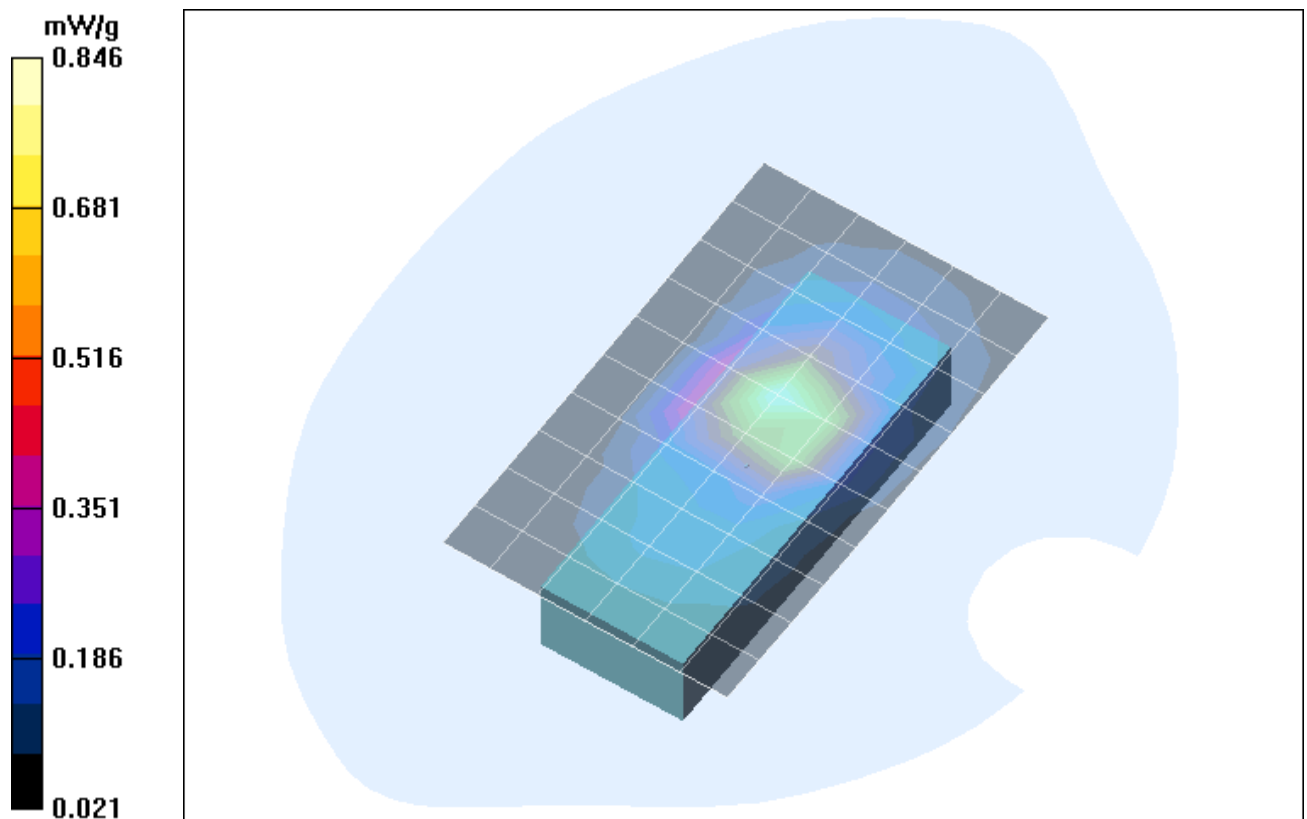


Fig. 12: SAR distribution for GPRS 1900 (Class 10), channel 661, body worn configuration, antenna towards the phantom, without accessory with 10 mm distance (August 28, 2006; Ambient Temperature: 22.0° C; Liquid Temperature: 21.2° C).

Test Laboratory: IMST GmbH, DASY Blue (I); File Name: [575bphm 8 data 10mm su.da4](#)

DUT: BenQ Siemens ; Type: SL91; Serial: 004401410210575

Program Name: Body Worn

Communication System: GPRS 1900; Frequency: 1880 MHz;Duty Cycle: 1:4

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.51$ mho/m; $\epsilon_r = 53.9$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6R - SN1669; ConvF(4.47, 4.47, 4.47); Calibrated: 15.02.2006
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn631; Calibrated: 11.07.2006
- Phantom: SAM Glycol 1176; Type: Speag; Serial: 1176
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body Worn/Area Scan (7x11x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.894 mW/g

Body Worn/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 22.6 V/m; Power Drift = -0.013 dB

Peak SAR (extrapolated) = 1.39 W/kg

SAR(1 g) = 0.851 mW/g; SAR(10 g) = 0.497 mW/g

Maximum value of SAR (measured) = 0.931 mW/g

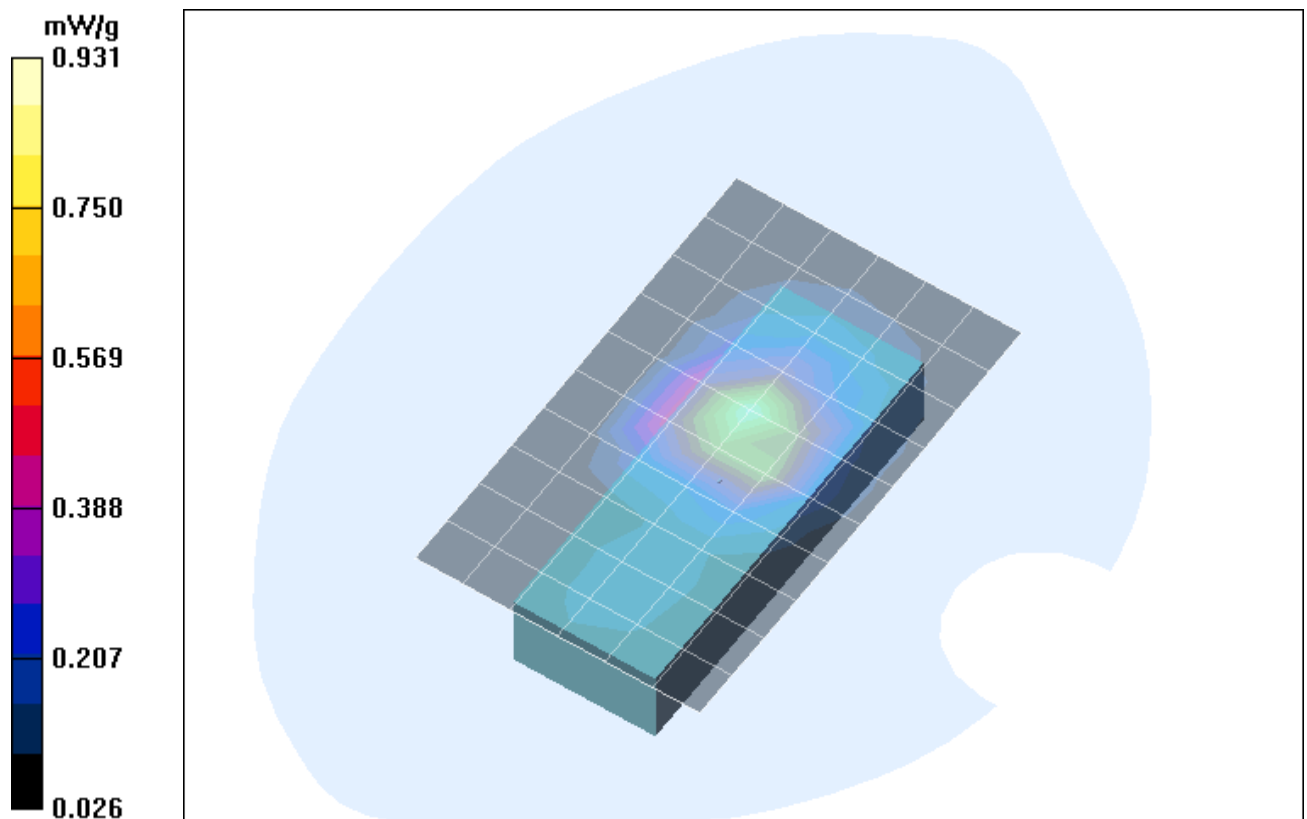


Fig. 13: SAR distribution for GPRS 1900 (Class 10), channel 661, body worn configuration, antenna towards the phantom, with data cable with 10 mm distance (August 28, 2006; Ambient Temperature: 22.0° C; Liquid Temperature: 21.2° C).

Test Laboratory: IMST GmbH, DASY Blue (I); File Name: [575bphl 8 data 10mm su.da4](#)

DUT: BenQ Siemens ; Type: SL91; Serial: 004401410210575

Program Name: Body Worn

Communication System: GPRS 1900; Frequency: 1850.2 MHz; Duty Cycle: 1:4

Medium parameters used: $f = 1850.2$ MHz; $\sigma = 1.51$ mho/m; $\epsilon_r = 53.9$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6R - SN1669; ConvF(4.47, 4.47, 4.47); Calibrated: 15.02.2006
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn631; Calibrated: 11.07.2006
- Phantom: SAM Glycol 1176; Type: Speag; Serial: 1176
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body Worn/Area Scan (7x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 1.20 mW/g

Body Worn/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 22.3 V/m; Power Drift = 0.070 dB

Peak SAR (extrapolated) = 1.87 W/kg

SAR(1 g) = 1.13 mW/g; SAR(10 g) = 0.626 mW/g

Maximum value of SAR (measured) = 1.26 mW/g

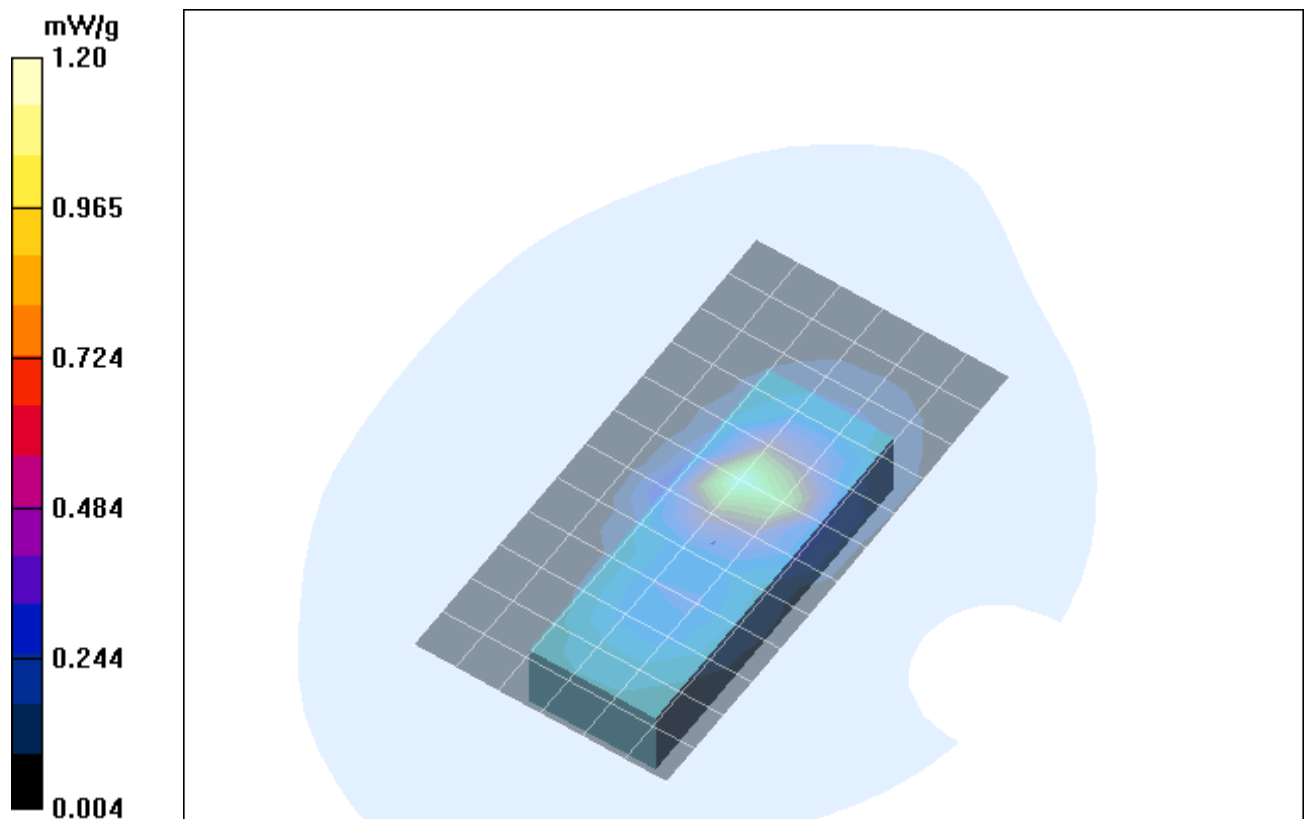


Fig. 14: SAR distribution for GPRS 1900 (Class 10), channel 512, body worn configuration, antenna towards the phantom, with data cable with 10 mm distance (August 28, 2006; Ambient Temperature: 22.0° C; Liquid Temperature: 21.2° C).

Test Laboratory: IMST GmbH, DASY Blue (I); File Name: [575bphh 8 data 10mm su.da4](#)

DUT: BenQ Siemens ; Type: SL91; Serial: 004401410210575

Program Name: Body Worn

Communication System: GPRS 1900; Frequency: 1909.8 MHz; Duty Cycle: 1:4

Medium parameters used: $f = 1909.8$ MHz; $\sigma = 1.51$ mho/m; $\epsilon_r = 53.9$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6R - SN1669; ConvF(4.47, 4.47, 4.47); Calibrated: 15.02.2006
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn631; Calibrated: 11.07.2006
- Phantom: SAM Glycol 1176; Type: Speag; Serial: 1176
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body Worn/Area Scan (7x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 1.12 mW/g

Body Worn/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 22.7 V/m; Power Drift = -0.135 dB

Peak SAR (extrapolated) = 1.75 W/kg

SAR(1 g) = 1.02 mW/g; SAR(10 g) = 0.585 mW/g

Maximum value of SAR (measured) = 1.11 mW/g

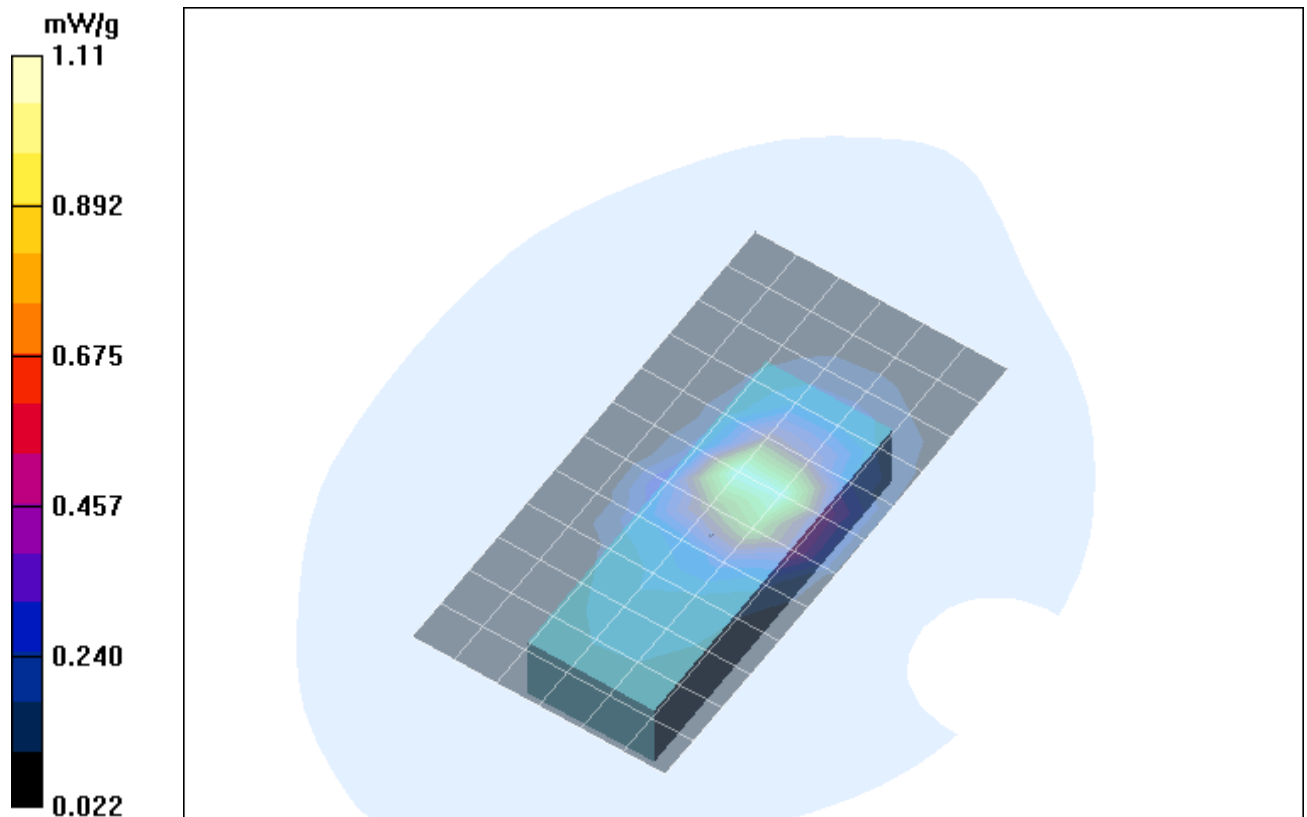


Fig. 15: SAR distribution for GPRS 1900 (Class 10), channel 810, body worn configuration, antenna towards the phantom, with data cable with 10 mm distance (August 28, 2006; Ambient Temperature: 22.0° C; Liquid Temperature: 21.2° C).

Test Laboratory: IMST GmbH, DASY Blue (I); **File Name:** [575bphm 11 ohne 10mm BT su.da4](#)

DUT: BenQ Siemens ; **Type:** SL91; **Serial:** 004401410210575

Program Name: Body Worn

Communication System: GPRS 1900; Frequency: 1880 MHz; Duty Cycle: 1:4

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.51$ mho/m; $\epsilon_r = 53.9$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6R - SN1669; ConvF(4.47, 4.47, 4.47); Calibrated: 15.02.2006
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn631; Calibrated: 11.07.2006
- Phantom: SAM Glycol 1176; Type: Speag; Serial: 1176
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body Worn/Area Scan (7x11x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.828 mW/g

Body Worn/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 25.3 V/m; Power Drift = 0.011 dB

Peak SAR (extrapolated) = 1.27 W/kg

SAR(1 g) = 0.776 mW/g; SAR(10 g) = 0.444 mW/g

Maximum value of SAR (measured) = 0.847 mW/g

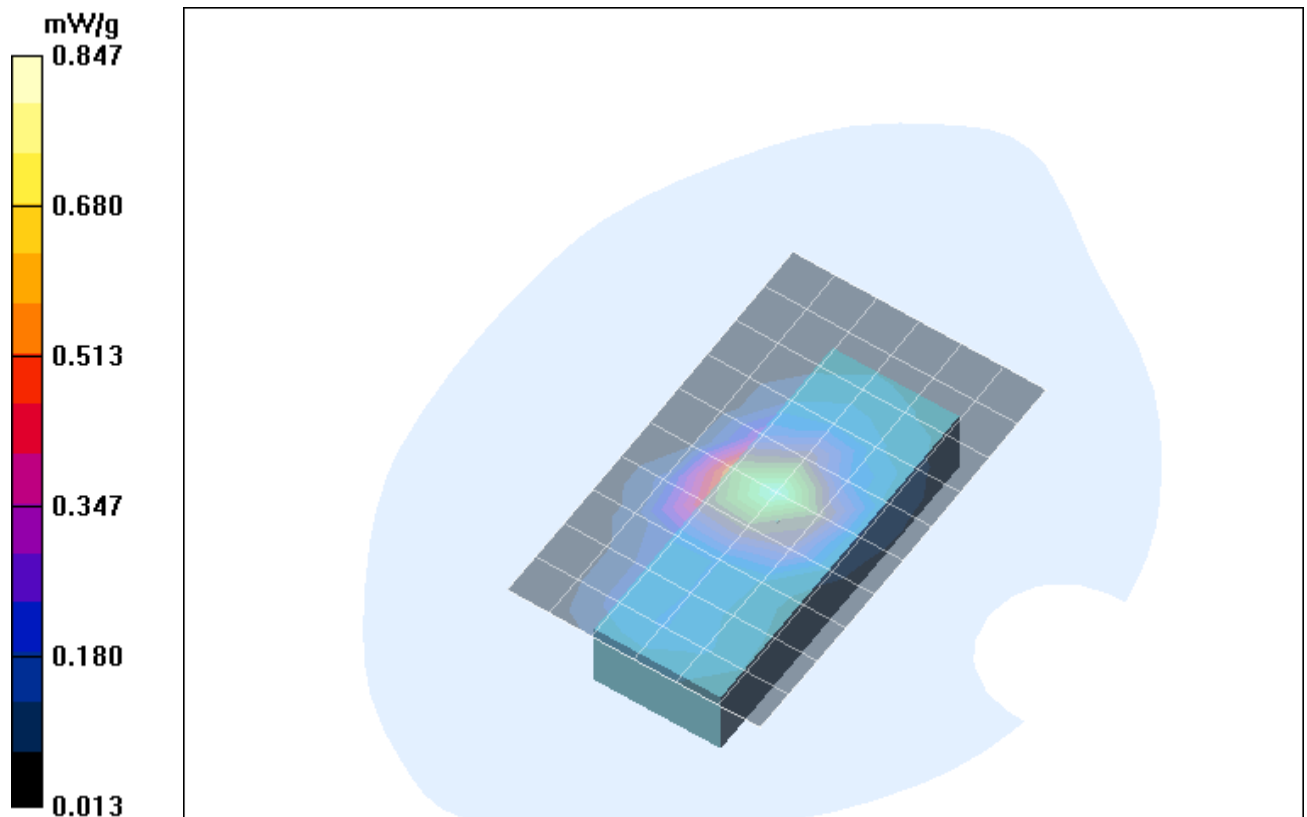


Fig. 16: SAR distribution for GPRS 1900 (Class 10), channel 661, body worn configuration, antenna towards the phantom, without accessory, with Bluetooth activated with 10 mm distance (August 28, 2006; Ambient Temperature: 22.0° C; Liquid Temperature: 21.2° C).

5 SAR Distribution Plots, PCS 1900 Body with slider down

Test Laboratory: IMST GmbH, DASY Blue (I); File Name: [575bphm_5_ohne_10mm_sd.da4](#)

DUT: BenQ Siemens ; Type: SL91; Serial: 004401410210575

Program Name: Body Worn

Communication System: GSM 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.51$ mho/m; $\epsilon_r = 53.9$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6R - SN1669; ConvF(4.47, 4.47, 4.47); Calibrated: 15.02.2006
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn631; Calibrated: 11.07.2006
- Phantom: SAM Glycol 1176; Type: Speag; Serial: 1176
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body Worn/Area Scan (7x10x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.511 mW/g

Body Worn/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 9.56 V/m; Power Drift = 0.198 dB

Peak SAR (extrapolated) = 0.930 W/kg

SAR(1 g) = 0.491 mW/g; SAR(10 g) = 0.274 mW/g

Maximum value of SAR (measured) = 0.540 mW/g

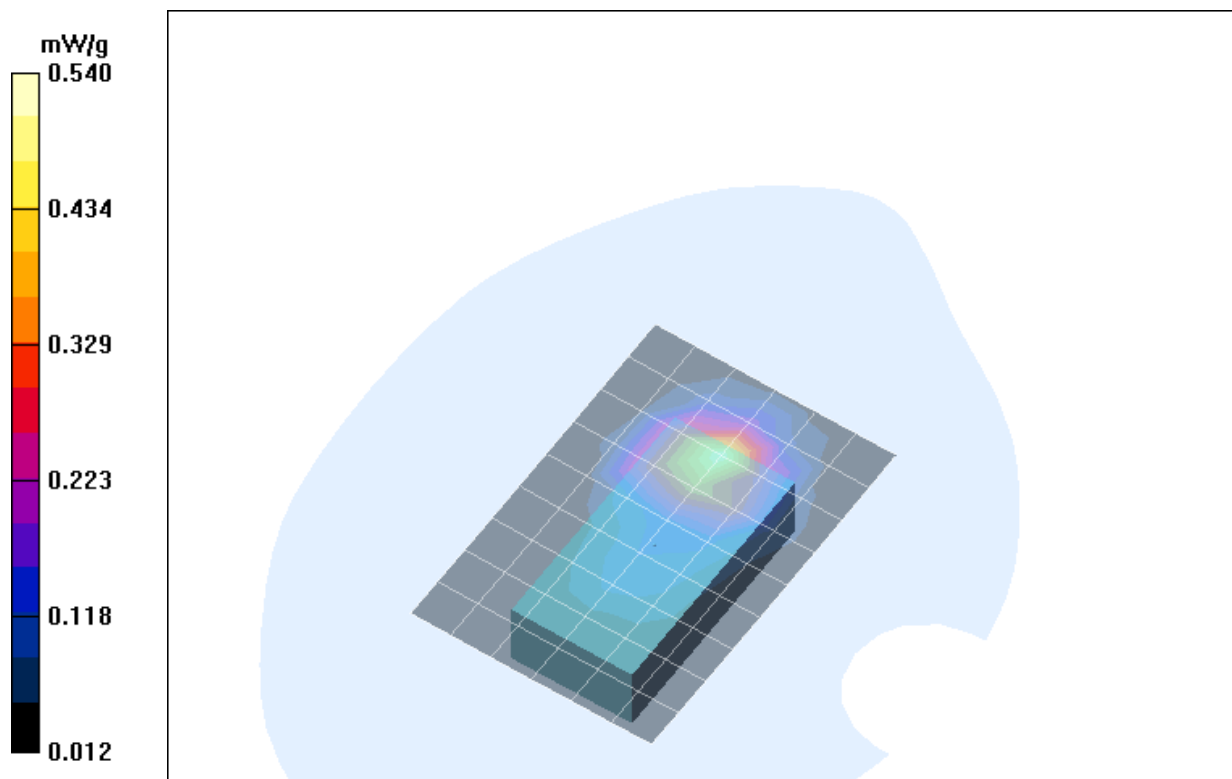


Fig. 17: SAR distribution for PCS 1900, channel 661, body worn configuration, antenna towards the phantom, without accessory, 10 mm distance (August 28, 2006; Ambient Temperature: 22.0° C; Liquid Temperature: 21.2° C).

Test Laboratory: IMST GmbH, DASY Blue (I); **File Name:** [575bphm 6 headset 10mm sd.da4](#)

DUT: BenQ Siemens ; **Type:** SL91; **Serial:** 004401410210575

Program Name: Body Worn

Communication System: GSM 1900; Frequency: 1880 MHz; Duty Cycle: 1:8.3

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.51$ mho/m; $\epsilon_r = 53.9$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6R - SN1669; ConvF(4.47, 4.47, 4.47); Calibrated: 15.02.2006
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn631; Calibrated: 11.07.2006
- Phantom: SAM Glycol 1176; Type: Speag; Serial: 1176
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body Worn/Area Scan (7x10x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.521 mW/g

Body Worn/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 9.38 V/m; Power Drift = 0.142 dB

Peak SAR (extrapolated) = 0.827 W/kg

SAR(1 g) = 0.491 mW/g; SAR(10 g) = 0.275 mW/g

Maximum value of SAR (measured) = 0.550 mW/g

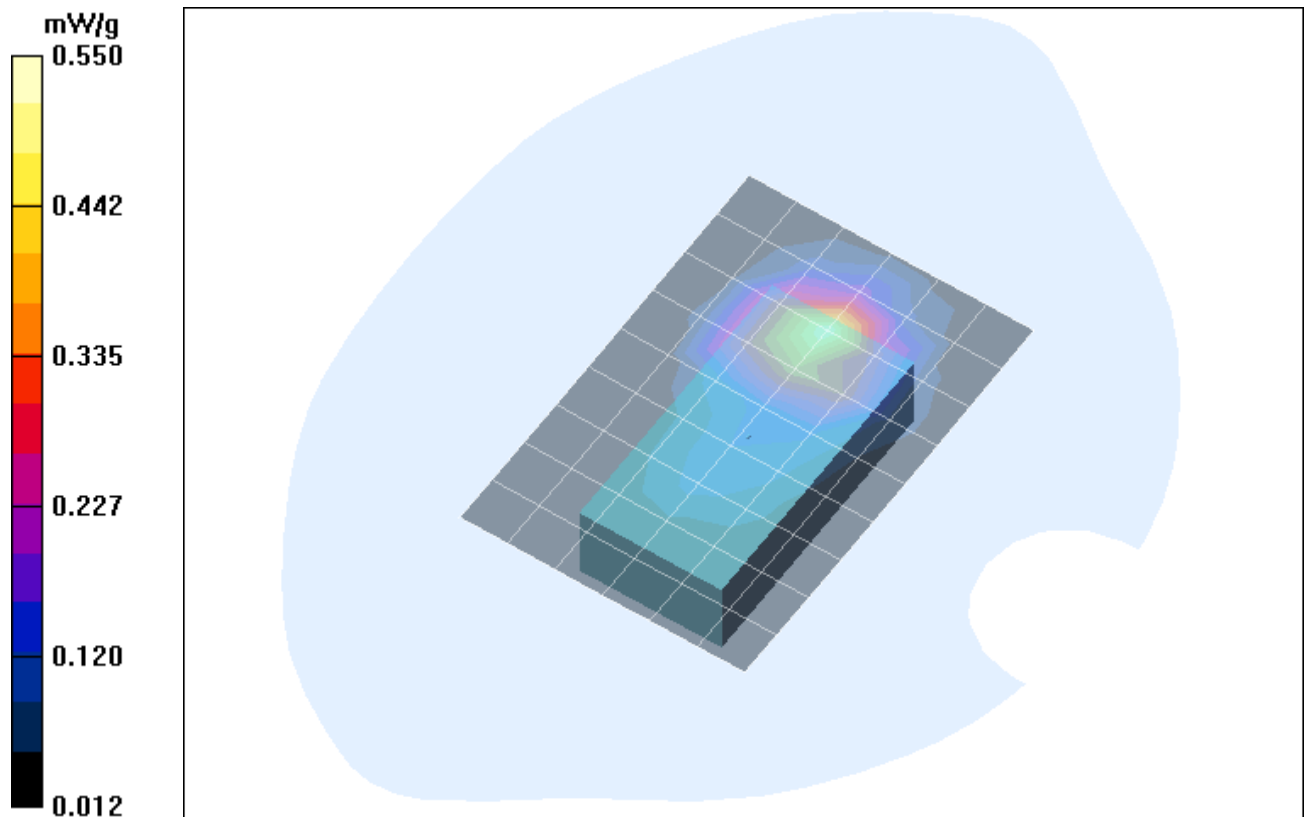


Fig. 18: SAR distribution for PCS 1900, channel 661, body worn configuration, antenna towards the phantom, with headset with 10 mm distance (August 28, 2006; Ambient Temperature: 22.0° C; Liquid Temperature: 21.2° C).

Test Laboratory: IMST GmbH, DASY Blue (I); **File Name:** [575bphm 7 ohne 10mm sd.da4](#)

DUT: BenQ Siemens ; **Type:** SL91; **Serial:** 004401410210575

Program Name: Body Worn

Communication System: GPRS 1900; Frequency: 1880 MHz; Duty Cycle: 1:4

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.51$ mho/m; $\epsilon_r = 53.9$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6R - SN1669; ConvF(4.47, 4.47, 4.47); Calibrated: 15.02.2006
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn631; Calibrated: 11.07.2006
- Phantom: SAM Glycol 1176; Type: Speag; Serial: 1176
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body Worn/Area Scan (7x10x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.801 mW/g

Body Worn/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 12.9 V/m; Power Drift = -0.028 dB

Peak SAR (extrapolated) = 1.34 W/kg

SAR(1 g) = 0.814 mW/g; SAR(10 g) = 0.460 mW/g

Maximum value of SAR (measured) = 0.891 mW/g

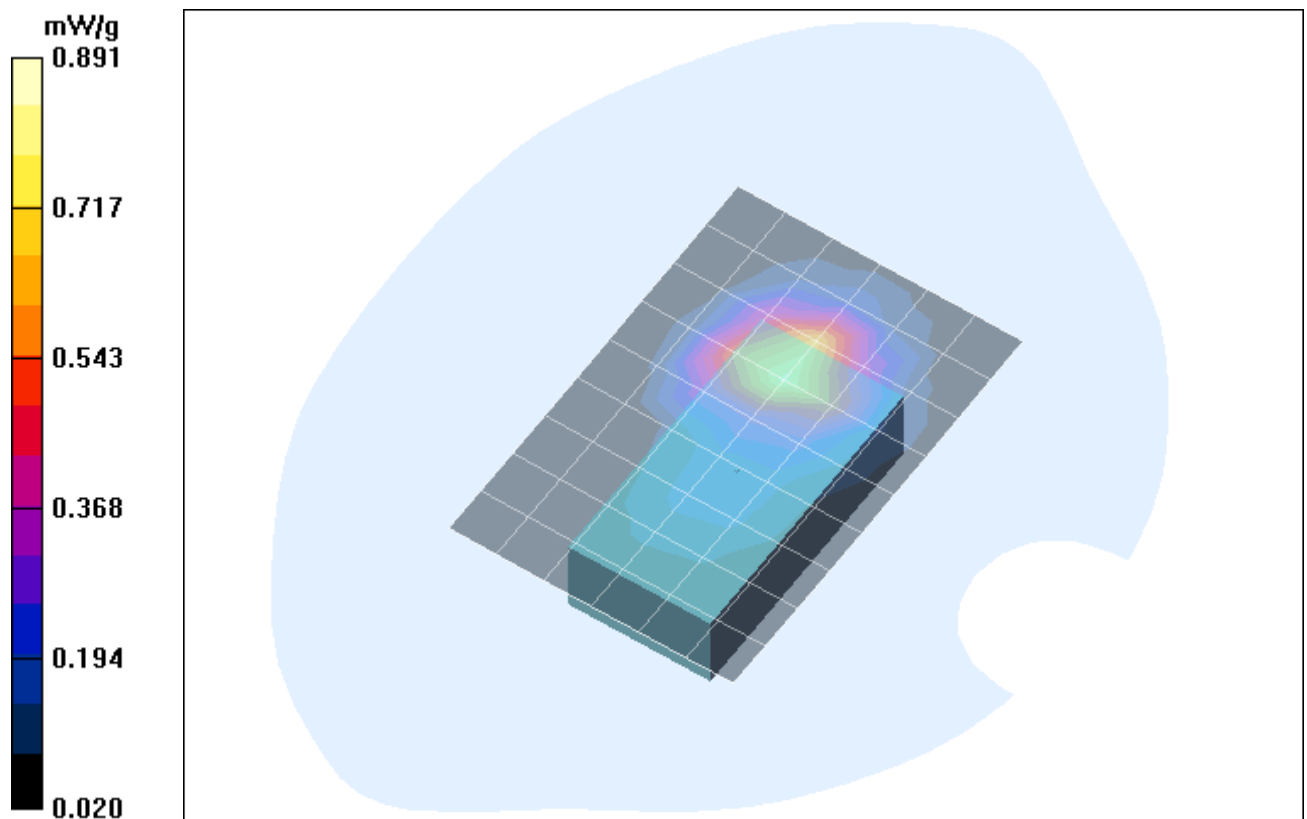


Fig. 19: SAR distribution for GPRS 1900 (Class 10), channel 661, body worn configuration, antenna towards the phantom, without accessory with 10 mm distance (August 28, 2006; Ambient Temperature: 22.0° C; Liquid Temperature: 21.2° C).

Test Laboratory: IMST GmbH, DASY Blue (I); **File Name:** [575bphl 7 ohne 10mm sd.da4](#)

DUT: BenQ Siemens ; **Type:** SL91; **Serial:** 004401410210575

Program Name: Body Worn

Communication System: GPRS 1900; Frequency: 1850.2 MHz; Duty Cycle: 1:4

Medium parameters used: $f = 1850.2$ MHz; $\sigma = 1.51$ mho/m; $\epsilon_r = 53.9$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6R - SN1669; ConvF(4.47, 4.47, 4.47); Calibrated: 15.02.2006
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn631; Calibrated: 11.07.2006
- Phantom: SAM Glycol 1176; Type: Speag; Serial: 1176
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body Worn/Area Scan (7x10x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 1.04 mW/g

Body Worn/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 16.4 V/m; Power Drift = 0.169 dB

Peak SAR (extrapolated) = 1.61 W/kg

SAR(1 g) = 0.999 mW/g; SAR(10 g) = 0.558 mW/g

Maximum value of SAR (measured) = 1.12 mW/g

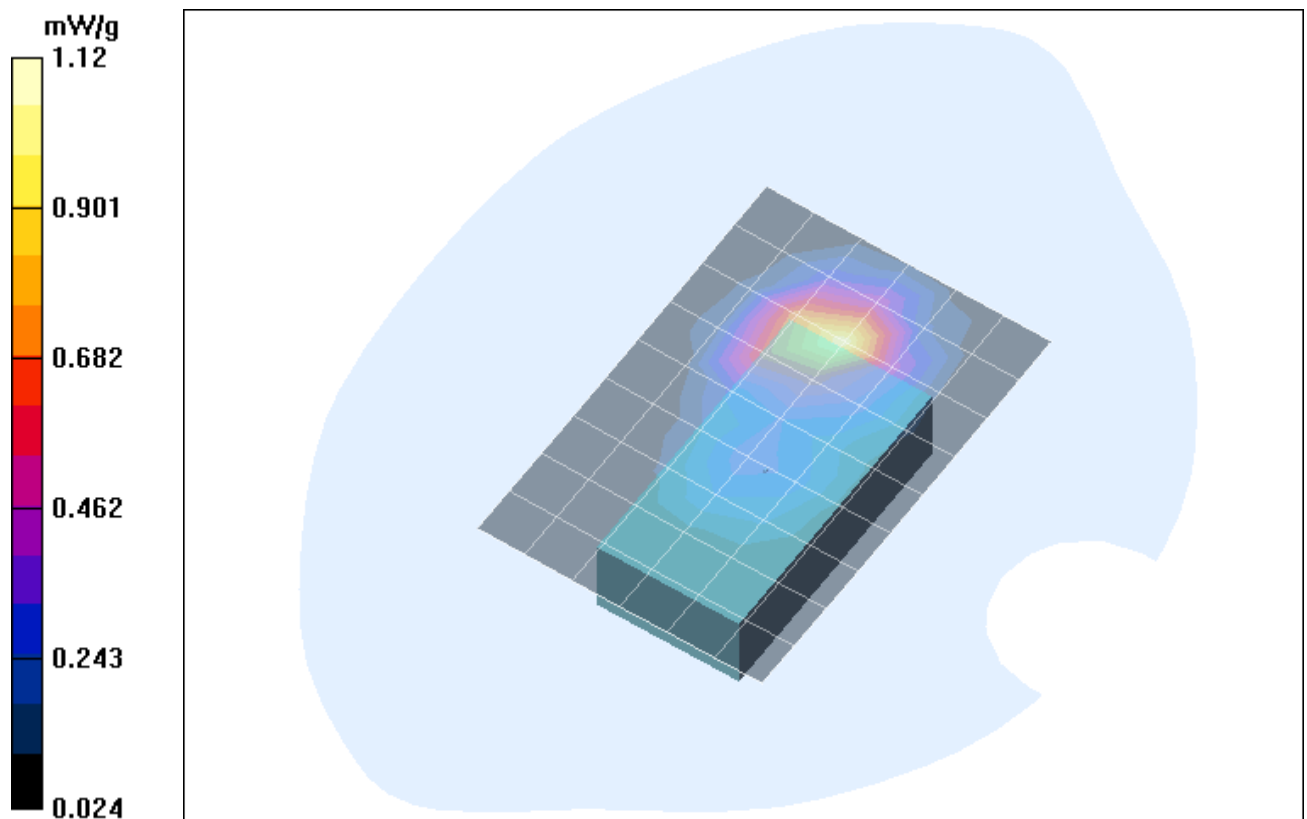


Fig. 20: SAR distribution for GPRS 1900 (Class 10), channel 512, body worn configuration, antenna towards the phantom, without accessory with 10 mm distance (August 28, 2006; Ambient Temperature: 22.0° C; Liquid Temperature: 21.2° C).

Test Laboratory: IMST GmbH, DASY Blue (I); **File Name:** [575bphh 7 ohne 10mm sd.da4](#)

DUT: BenQ Siemens ; **Type:** SL91; **Serial:** 004401410210575

Program Name: Body Worn

Communication System: GPRS 1900; Frequency: 1909.8 MHz; Duty Cycle: 1:4

Medium parameters used: $f = 1909.8$ MHz; $\sigma = 1.51$ mho/m; $\epsilon_r = 53.9$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6R - SN1669; ConvF(4.47, 4.47, 4.47); Calibrated: 15.02.2006
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn631; Calibrated: 11.07.2006
- Phantom: SAM Glycol 1176; Type: Speag; Serial: 1176
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body Worn/Area Scan (7x10x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 1.03 mW/g

Body Worn/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 11.9 V/m; Power Drift = -0.104 dB

Peak SAR (extrapolated) = 1.75 W/kg

SAR(1 g) = 0.966 mW/g; SAR(10 g) = 0.530 mW/g

Maximum value of SAR (measured) = 1.07 mW/g

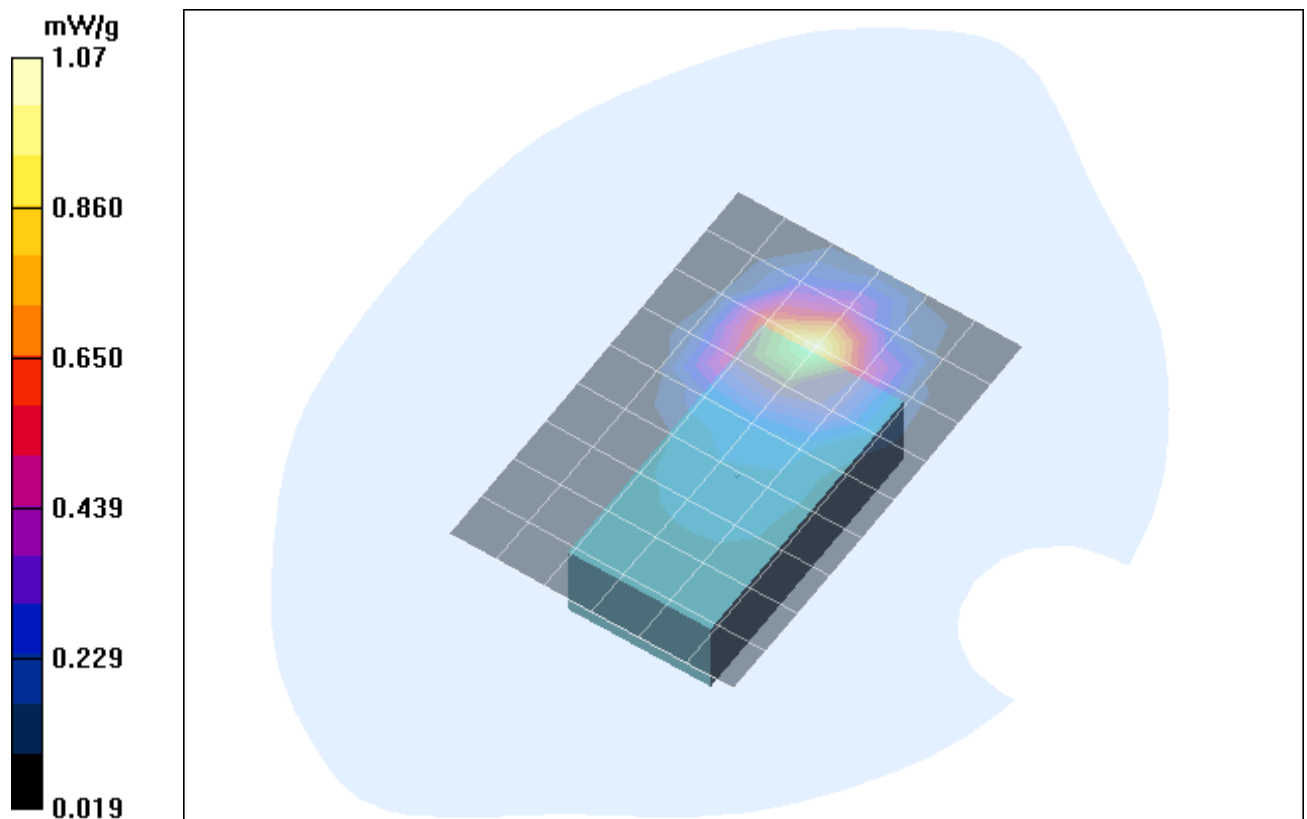


Fig. 21: SAR distribution for GPRS 1900 (Class 10), channel 810, body worn configuration, antenna towards the phantom, without accessory with 10 mm distance (August 28, 2006; Ambient Temperature: 22.0° C; Liquid Temperature: 21.2° C).

Test Laboratory: IMST GmbH, DASY Blue (I); **File Name:** [575bphm 8 data 10mm sd.da4](#)

DUT: BenQ Siemens ; **Type:** SL91; **Serial:** 004401410210575

Program Name: Body Worn

Communication System: GPRS 1900; Frequency: 1880 MHz; Duty Cycle: 1:4

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.51$ mho/m; $\epsilon_r = 53.9$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6R - SN1669; ConvF(4.47, 4.47, 4.47); Calibrated: 15.02.2006
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn631; Calibrated: 11.07.2006
- Phantom: SAM Glycol 1176; Type: Speag; Serial: 1176
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body Worn/Area Scan (7x10x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.703 mW/g

Body Worn/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 12.6 V/m; Power Drift = -0.035 dB

Peak SAR (extrapolated) = 1.36 W/kg

SAR(1 g) = 0.822 mW/g; SAR(10 g) = 0.467 mW/g

Maximum value of SAR (measured) = 0.913 mW/g

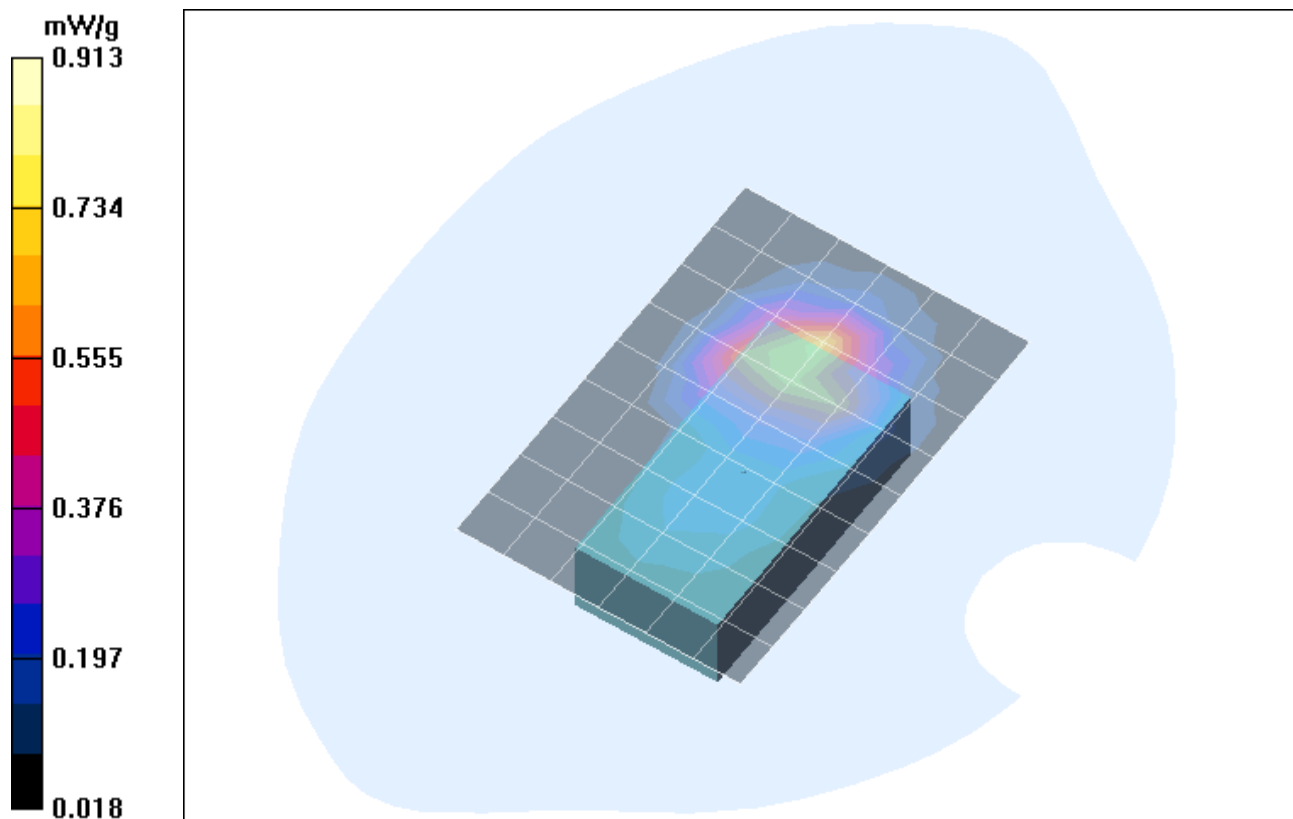


Fig. 22: SAR distribution for GPRS 1900 (Class 10), channel 661, body worn configuration, antenna towards the phantom, with data cable with 10 mm distance (August 28, 2006; Ambient Temperature: 22.0° C; Liquid Temperature: 21.2° C).

Test Laboratory: IMST GmbH, DASY Blue (I); **File Name:** [575bphl 8 data 10mm sd.da4](#)

DUT: BenQ Siemens ; **Type:** SL91; **Serial:** 004401410210575

Program Name: Body Worn

Communication System: GPRS 1900; Frequency: 1850.2 MHz; Duty Cycle: 1:4

Medium parameters used: $f = 1850.2$ MHz; $\sigma = 1.51$ mho/m; $\epsilon_r = 53.9$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6R - SN1669; ConvF(4.47, 4.47, 4.47); Calibrated: 15.02.2006
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn631; Calibrated: 11.07.2006
- Phantom: SAM Glycol 1176; Type: Speag; Serial: 1176
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body Worn/Area Scan (7x10x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.881 mW/g

Body Worn/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 12.4 V/m; Power Drift = 0.155 dB

Peak SAR (extrapolated) = 1.44 W/kg

SAR(1 g) = 0.894 mW/g; SAR(10 g) = 0.514 mW/g

Maximum value of SAR (measured) = 0.993 mW/g

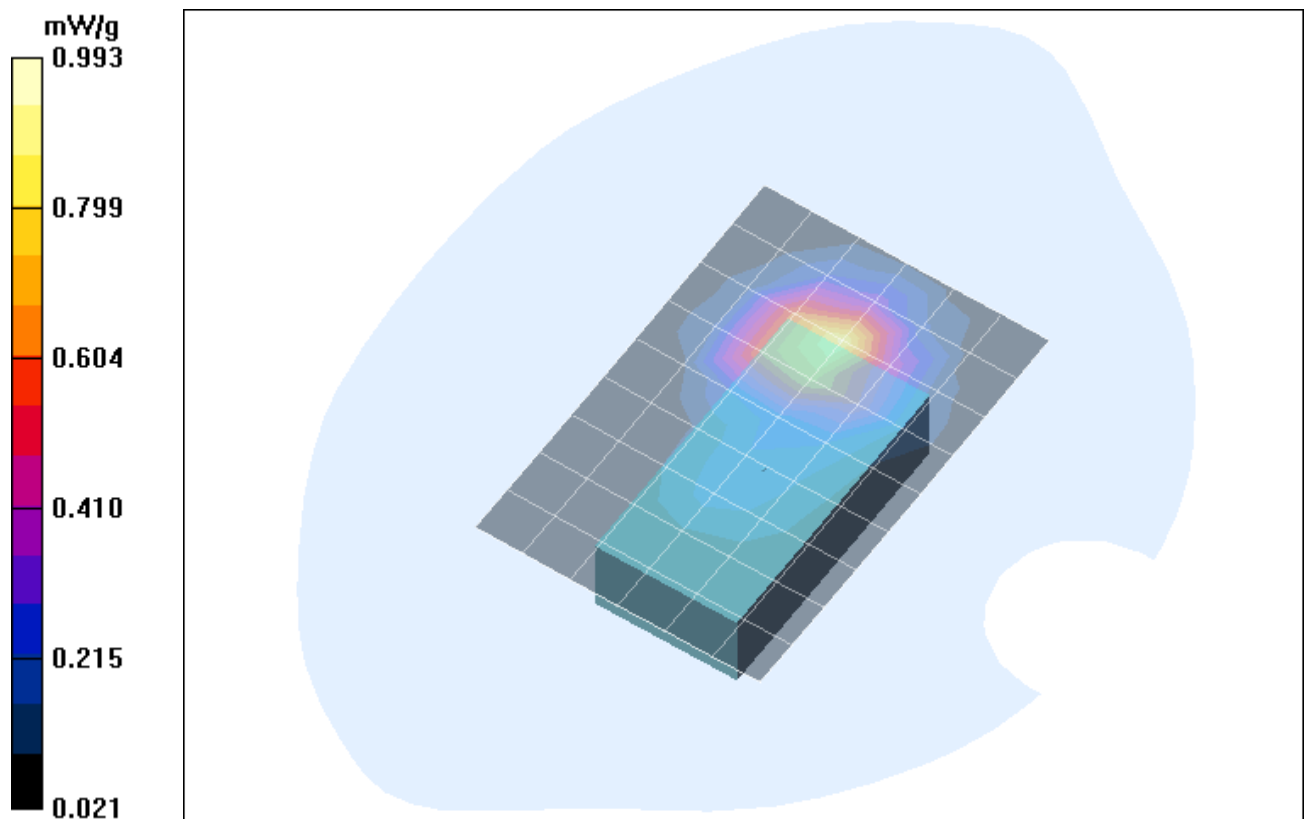


Fig. 23: SAR distribution for GPRS 1900 (Class 10), channel 512, body worn configuration, antenna towards the phantom, with data cable with 10 mm distance (August 28, 2006; Ambient Temperature: 22.0° C; Liquid Temperature: 21.2° C).

Test Laboratory: IMST GmbH, DASY Blue (I); File Name: [575bphh 8 data 10mm sd.da4](#)

DUT: BenQ Siemens ; Type: SL91; Serial: 004401410210575

Program Name: Body Worn

Communication System: GPRS 1900; Frequency: 1909.8 MHz; Duty Cycle: 1:4

Medium parameters used: $f = 1909.8$ MHz; $\sigma = 1.51$ mho/m; $\epsilon_r = 53.9$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6R - SN1669; ConvF(4.47, 4.47, 4.47); Calibrated: 15.02.2006
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn631; Calibrated: 11.07.2006
- Phantom: SAM Glycol 1176; Type: Speag; Serial: 1176
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body Worn/Area Scan (7x10x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.803 mW/g

Body Worn/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 11.7 V/m; Power Drift = -0.134 dB

Peak SAR (extrapolated) = 1.32 W/kg

SAR(1 g) = 0.801 mW/g; SAR(10 g) = 0.455 mW/g

Maximum value of SAR (measured) = 0.881 mW/g

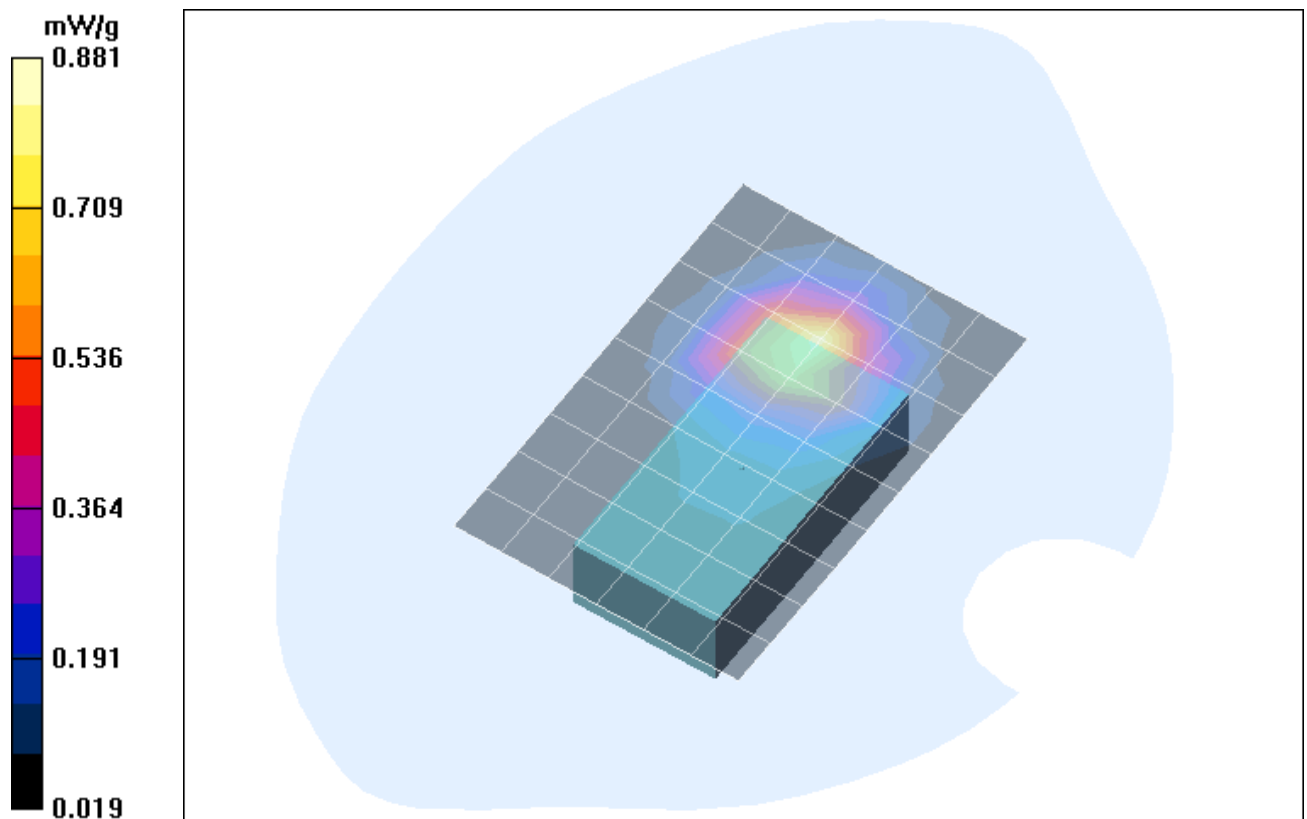


Fig. 24: SAR distribution for GPRS 1900 (Class 10), channel 810, body worn configuration, antenna towards the phantom, with data cable with 10 mm distance (August 28, 2006; Ambient Temperature: 22.0° C; Liquid Temperature: 21.2° C).

Test Laboratory: IMST GmbH, DASY Blue (I); File Name: [575bphm 10 ohne BT 10mm sd.da4](#)

DUT: BenQ Siemens ; Type: SL91; Serial: 004401410210575

Program Name: Body Worn

Communication System: GPRS 1900; Frequency: 1880 MHz; Duty Cycle: 1:4

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.51$ mho/m; $\epsilon_r = 53.9$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6R - SN1669; ConvF(4.47, 4.47, 4.47); Calibrated: 15.02.2006
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn631; Calibrated: 11.07.2006
- Phantom: SAM Glycol 1176; Type: Speag; Serial: 1176
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body Worn/Area Scan (7x10x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.821 mW/g

Body Worn/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 9.76 V/m; Power Drift = 0.197 dB

Peak SAR (extrapolated) = 1.51 W/kg

SAR(1 g) = 0.778 mW/g; SAR(10 g) = 0.447 mW/g

Maximum value of SAR (measured) = 0.837 mW/g

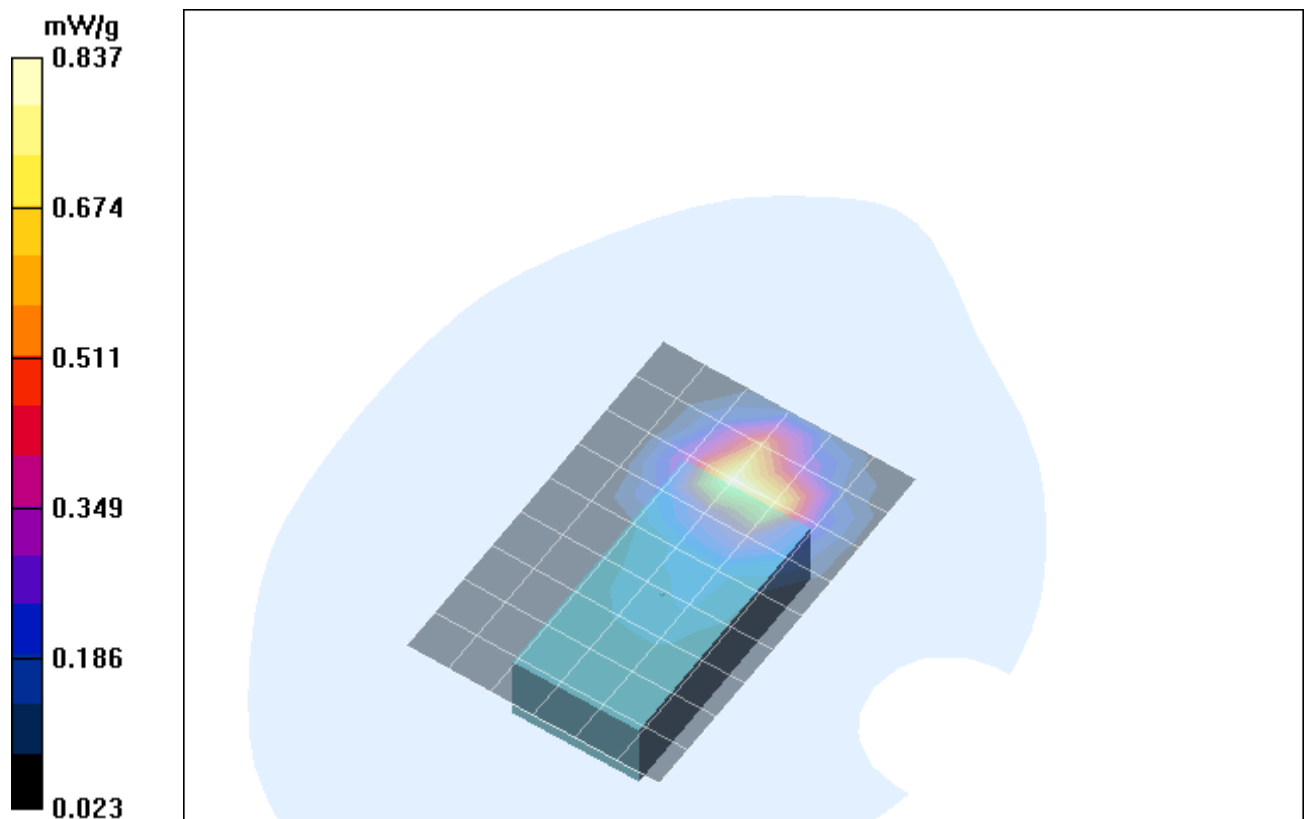


Fig. 25: SAR distribution for GPRS 1900 (Class 10), channel 661, body worn configuration, antenna towards the phantom, without accessory, with Bluetooth activated with 10 mm distance (August 28, 2006; Ambient Temperature: 22.0° C; Liquid Temperature: 21.2° C).

6 SAR z-axis scans (Validation)

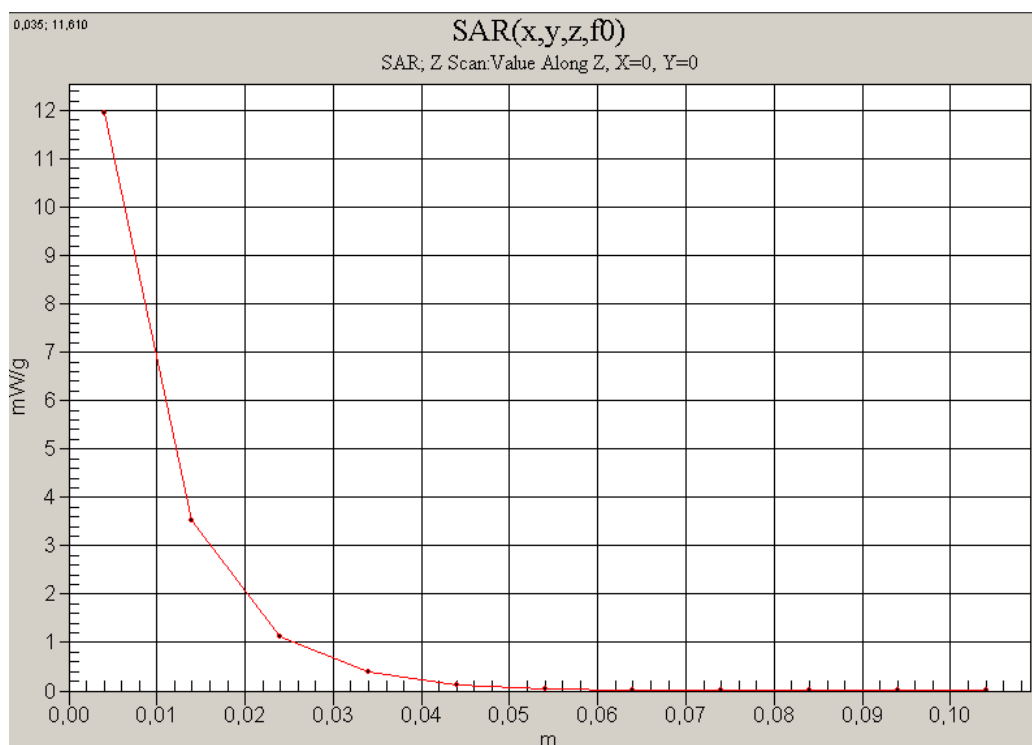


Fig. 26: SAR versus liquid depth, 1900 MHz, head (August 21, 2006; Ambient Temperature: 21.5° C; Liquid Temperature : 20.7° C).

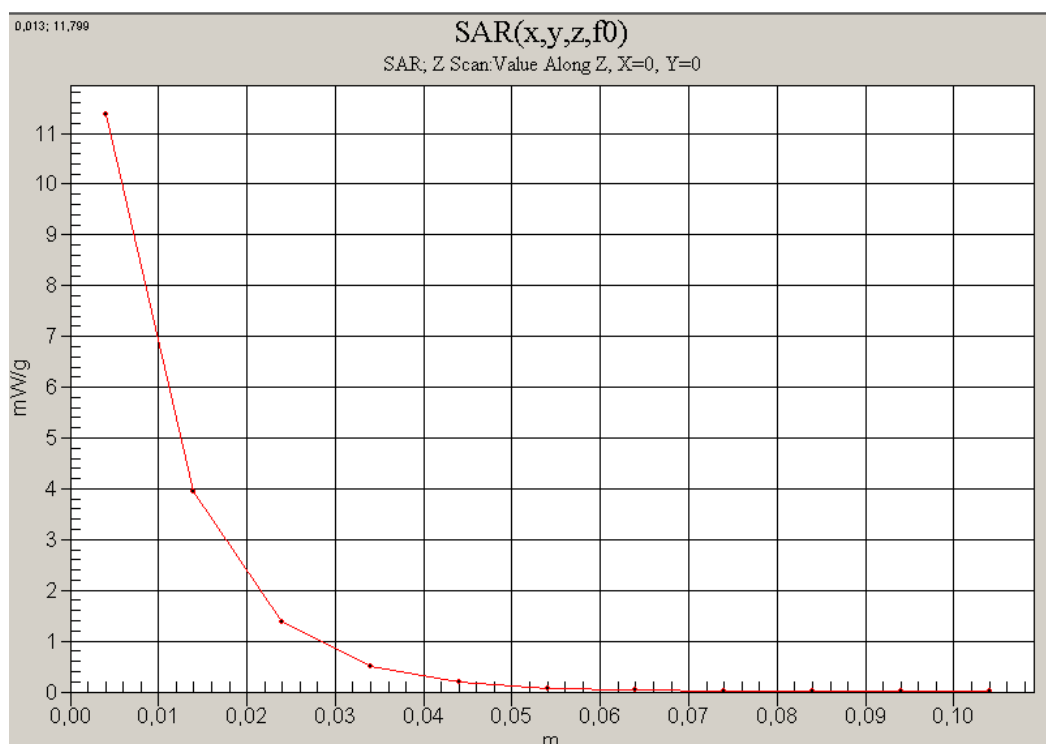


Fig. 27: SAR versus liquid depth, 1900 MHz, body (August 28, 2006; Ambient Temperature: 22.0° C; Liquid Temperature : 21.2° C).

7 SAR z-axis scans (Measurements)

The following pictures show the plots of SAR versus liquid depth for the worst case values.

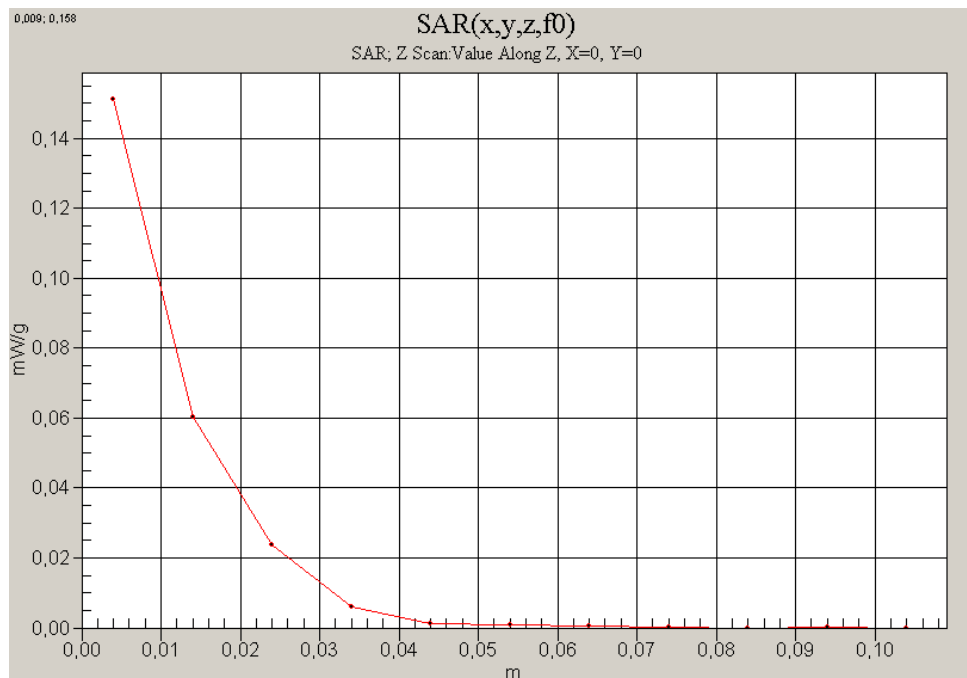


Fig. 28: SAR versus liquid depth, head: PCS 1900, channel 661, cheek position, left side of head, slider up (August 21, 2006; Ambient Temperature: 21.6° C; Liquid Temperature : 20.8° C).

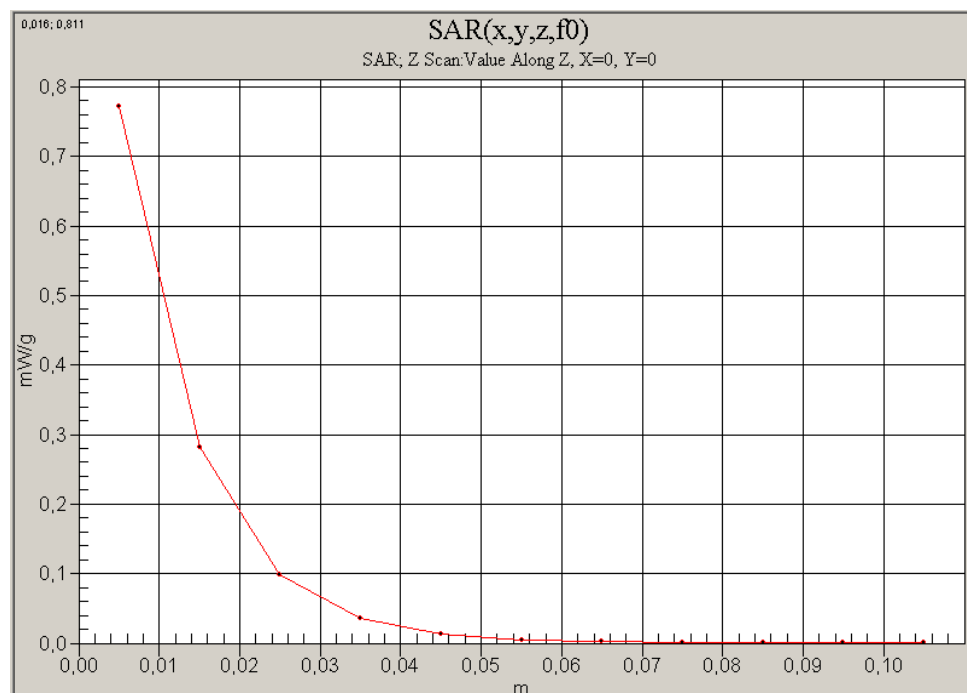


Fig. 29: SAR versus liquid depth, body: GPRS 1900 (Class 10), channel 512, data cable, with slider up and 10mm distance (August 28, 2006; Ambient Temperature: 22.0° C; Liquid Temperature: 21.2° C).