
Appendix for the Report

Dosimetric Assessment of the Siemens C72 (FCC ID: PWX-C72)

According to the FCC Requirements

SAR Distribution Plots

September 16, 2005
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1 SAR Distribution Plots, PCS 1900 Head with 750mAh battery.

Test Laboratory: IMST GmbH, DASY Blue (I); File Name: [421bplm_1_750mAh.da4](#)

DUT: Siemens; Type: C72; Serial: 354765000312421

Program Name: Cheek Left

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.43$ mho/m; $\epsilon_r = 41.7$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6R - SN1579; ConvF(5.28, 5.28, 5.28); Calibrated: 13.01.2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn631; Calibrated: 07.07.2005
- Phantom: SAM Glycol 1176; Type: Speag; Serial: 1176
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

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

Maximum value of SAR (measured) = 0.559 mW/g

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

Reference Value = 18.7 V/m; Power Drift = -0.044 dB

Peak SAR (extrapolated) = 0.757 W/kg

SAR(1 g) = 0.514 mW/g; SAR(10 g) = 0.302 mW/g

Maximum value of SAR (measured) = 0.565 mW/g

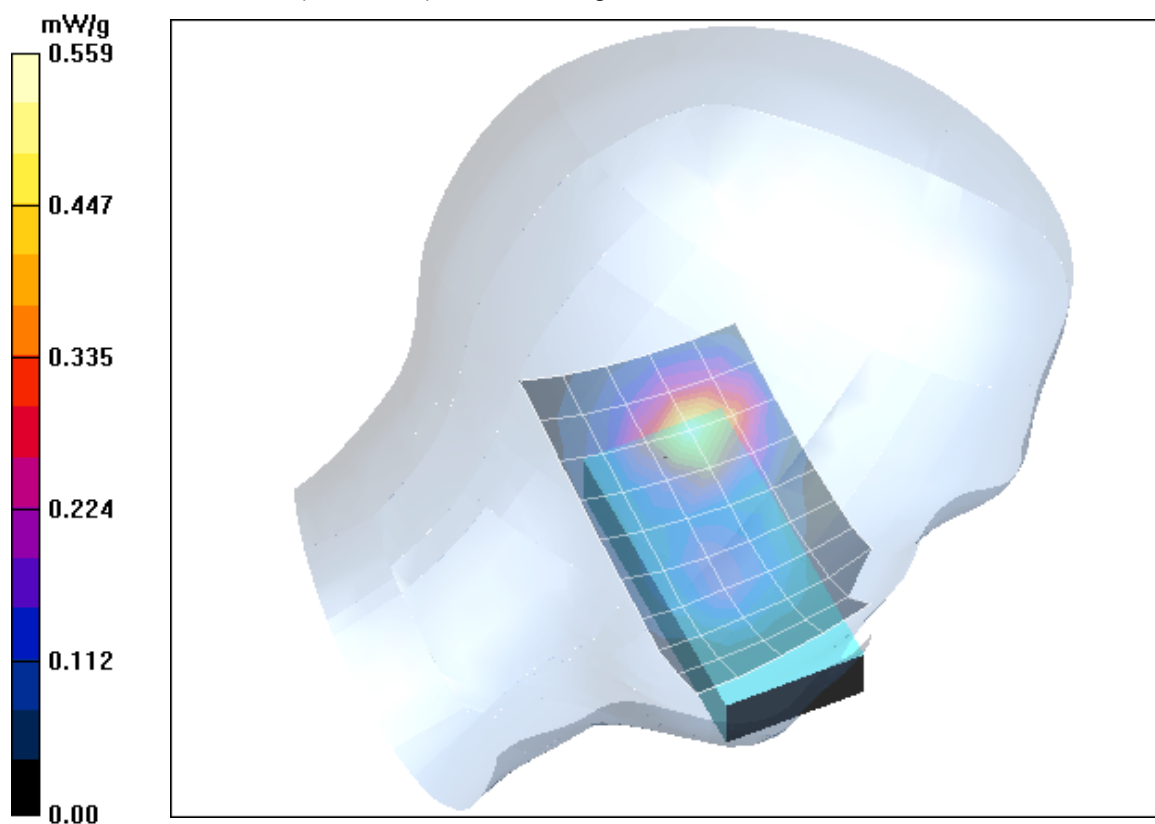


Fig. 1: SAR distribution for PCS 1900, channel 661, cheek position, left side of head (September 09, 2005; Ambient Temperature: 22.1° C; Liquid Temperature : 21.2° C).

Test Laboratory: IMST GmbH, DASY Blue (I); **File Name:** [421bplm 2 750mAh.da4](#)

DUT: Siemens; **Type:** C72; **Serial:** 354765000312421

Program Name: Tilted Left

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.43$ mho/m; $\epsilon_r = 41.7$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6R - SN1579; ConvF(5.28, 5.28, 5.28); Calibrated: 13.01.2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn631; Calibrated: 07.07.2005
- Phantom: SAM Glycol 1176; Type: Speag; Serial: 1176
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

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

Maximum value of SAR (measured) = 0.600 mW/g

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

Reference Value = 20.6 V/m; Power Drift = -0.029 dB

Peak SAR (extrapolated) = 0.820 W/kg

SAR(1 g) = 0.559 mW/g; SAR(10 g) = 0.328 mW/g

Maximum value of SAR (measured) = 0.613 mW/g

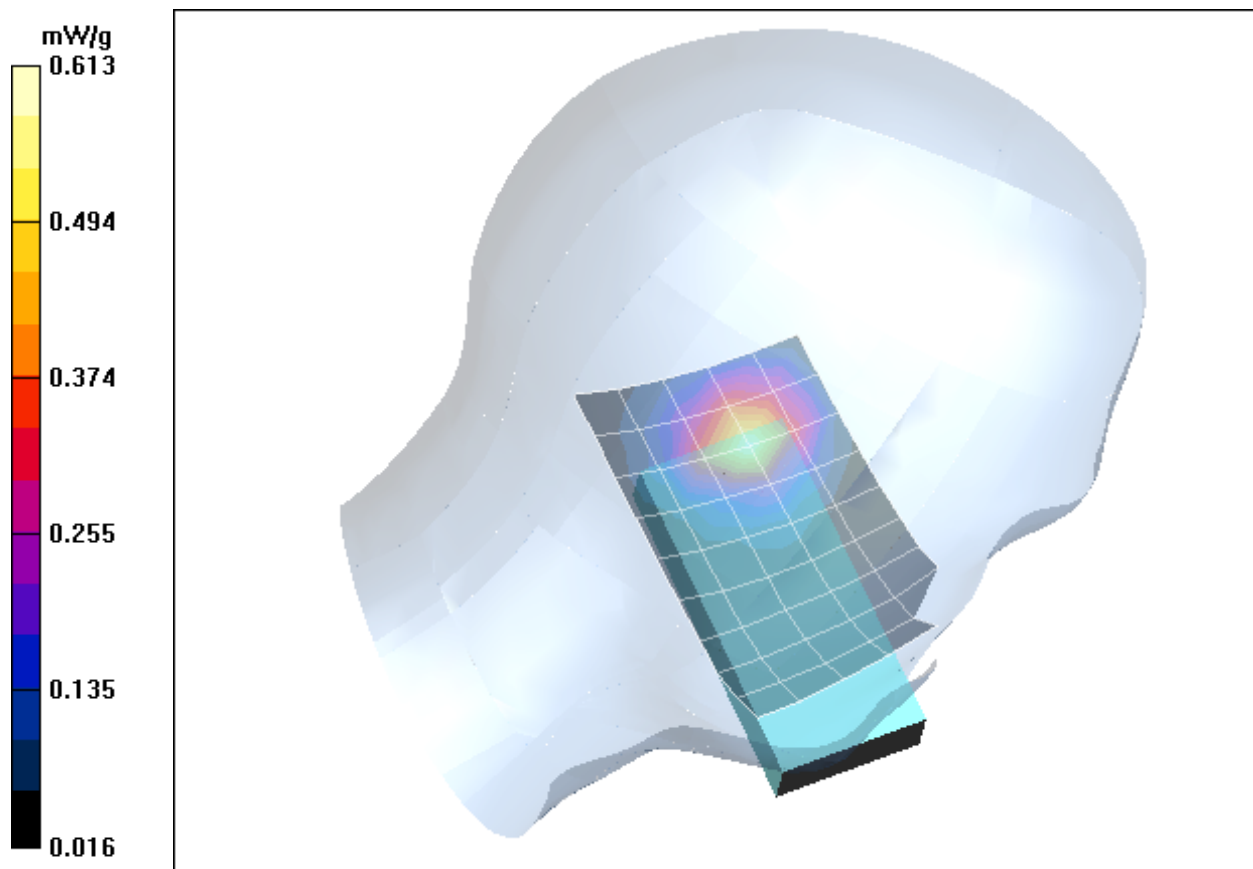


Fig. 2: SAR distribution for PCS 1900, channel 661, tilted position, left side of head (September 09, 2005; Ambient Temperature: 22.1° C; Liquid Temperature : 21.2° C).

Test Laboratory: IMST GmbH, DASY Blue (I); **File Name:** [421bprm_1_750mAh.da4](#)

DUT: Siemens; **Type:** C72; **Serial:** 354765000312421

Program Name: Cheek Right

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.43$ mho/m; $\epsilon_r = 41.7$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6R - SN1579; ConvF(5.28, 5.28, 5.28); Calibrated: 13.01.2005

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

- Electronics: DAE4 Sn631; Calibrated: 07.07.2005

- Phantom: SAM Glycol 1176; Type: Speag; Serial: 1176

- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

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

Maximum value of SAR (measured) = 0.454 mW/g

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

Reference Value = 19.2 V/m; Power Drift = -0.036 dB

Peak SAR (extrapolated) = 0.611 W/kg

SAR(1 g) = 0.436 mW/g; SAR(10 g) = 0.267 mW/g

Maximum value of SAR (measured) = 0.480 mW/g

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

Reference Value = 19.2 V/m; Power Drift = -0.036 dB

Peak SAR (extrapolated) = 0.324 W/kg

SAR(1 g) = 0.234 mW/g; SAR(10 g) = 0.143 mW/g

Maximum value of SAR (measured) = 0.256 mW/g

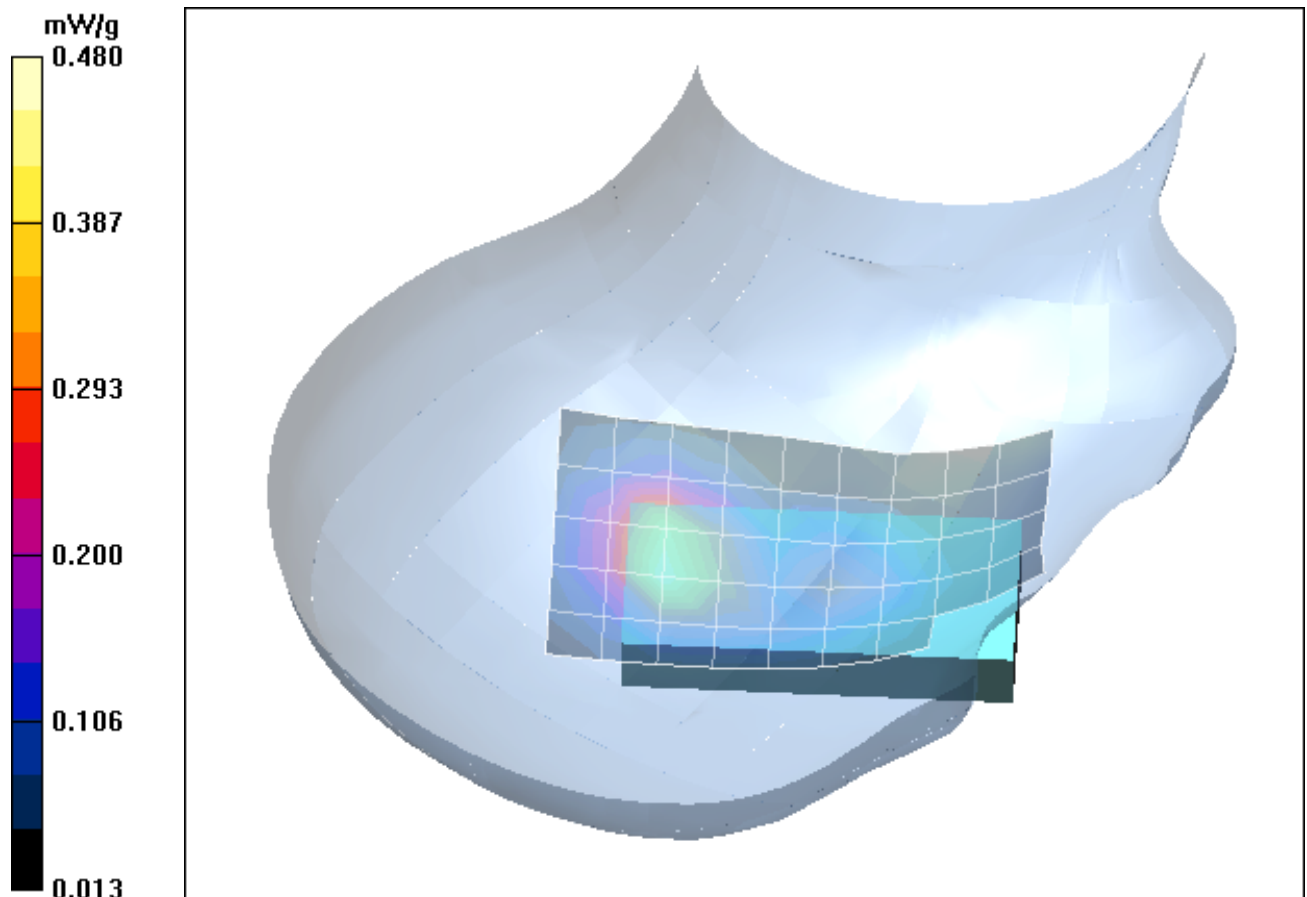


Fig. 3: SAR distribution for PCS 1900, channel 661, cheek position, right side of head (September 09, 2005; Ambient Temperature: 22.2° C; Liquid Temperature : 21.2° C).

Test Laboratory: IMST GmbH, DASY Blue (I); **File Name:** [421bprm 2 750mAh.da4](#)

DUT: Siemens; **Type:** C72; **Serial:** 354765000312421

Program Name: Tilted Right

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.43$ mho/m; $\epsilon_r = 41.7$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6R - SN1579; ConvF(5.28, 5.28, 5.28); Calibrated: 13.01.2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn631; Calibrated: 07.07.2005
- Phantom: SAM Glycol 1176; Type: Speag; Serial: 1176
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

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

Maximum value of SAR (measured) = 0.461 mW/g

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

Reference Value = 20.8 V/m; Power Drift = -0.018 dB

Peak SAR (extrapolated) = 0.779 W/kg

SAR(1 g) = 0.530 mW/g; SAR(10 g) = 0.312 mW/g

Maximum value of SAR (measured) = 0.588 mW/g

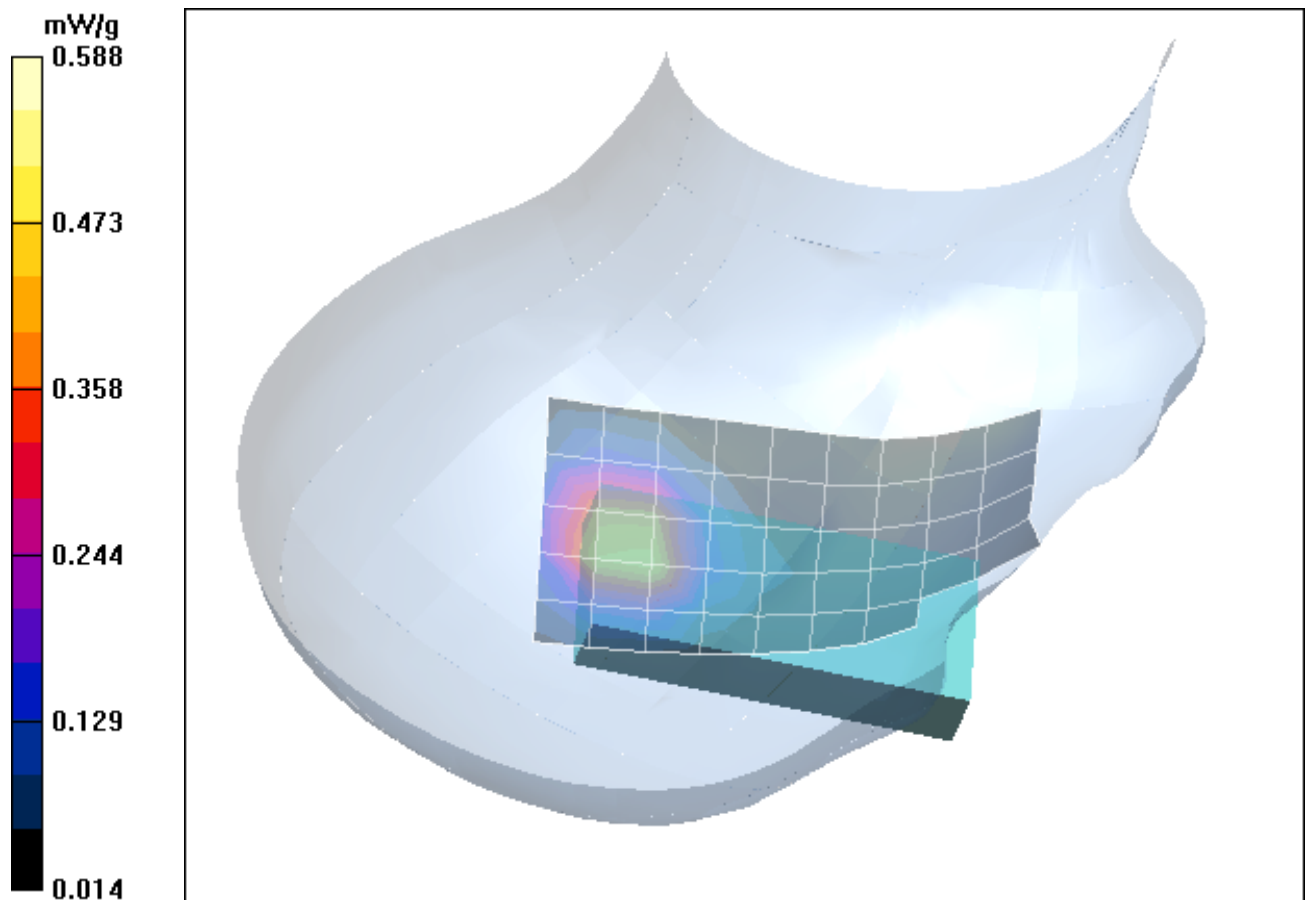


Fig. 4: SAR distribution for PCS 1900, channel 661, tilted position, right side of head (September 09, 2005; Ambient Temperature: 22.1 °C; Liquid Temperature : 21.2° C)

2 SAR Distribution Plots, PCS 1900 Head with 820mAh battery.

Test Laboratory: IMST GmbH, DASY Blue (I); File Name: [421bplm_1_820mAh.da4](#)

DUT: Siemens; Type: C72; Serial: 354765000312421

Program Name: Cheek Left

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.43$ mho/m; $\epsilon_r = 41.7$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6R - SN1579; ConvF(5.28, 5.28, 5.28); Calibrated: 13.01.2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn631; Calibrated: 07.07.2005
- Phantom: SAM Glycol 1176; Type: Speag; Serial: 1176
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

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

Maximum value of SAR (measured) = 0.514 mW/g

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

Reference Value = 18.2 V/m; Power Drift = 0.016 dB

Peak SAR (extrapolated) = 0.691 W/kg

SAR(1 g) = 0.477 mW/g; SAR(10 g) = 0.284 mW/g

Maximum value of SAR (measured) = 0.522 mW/g

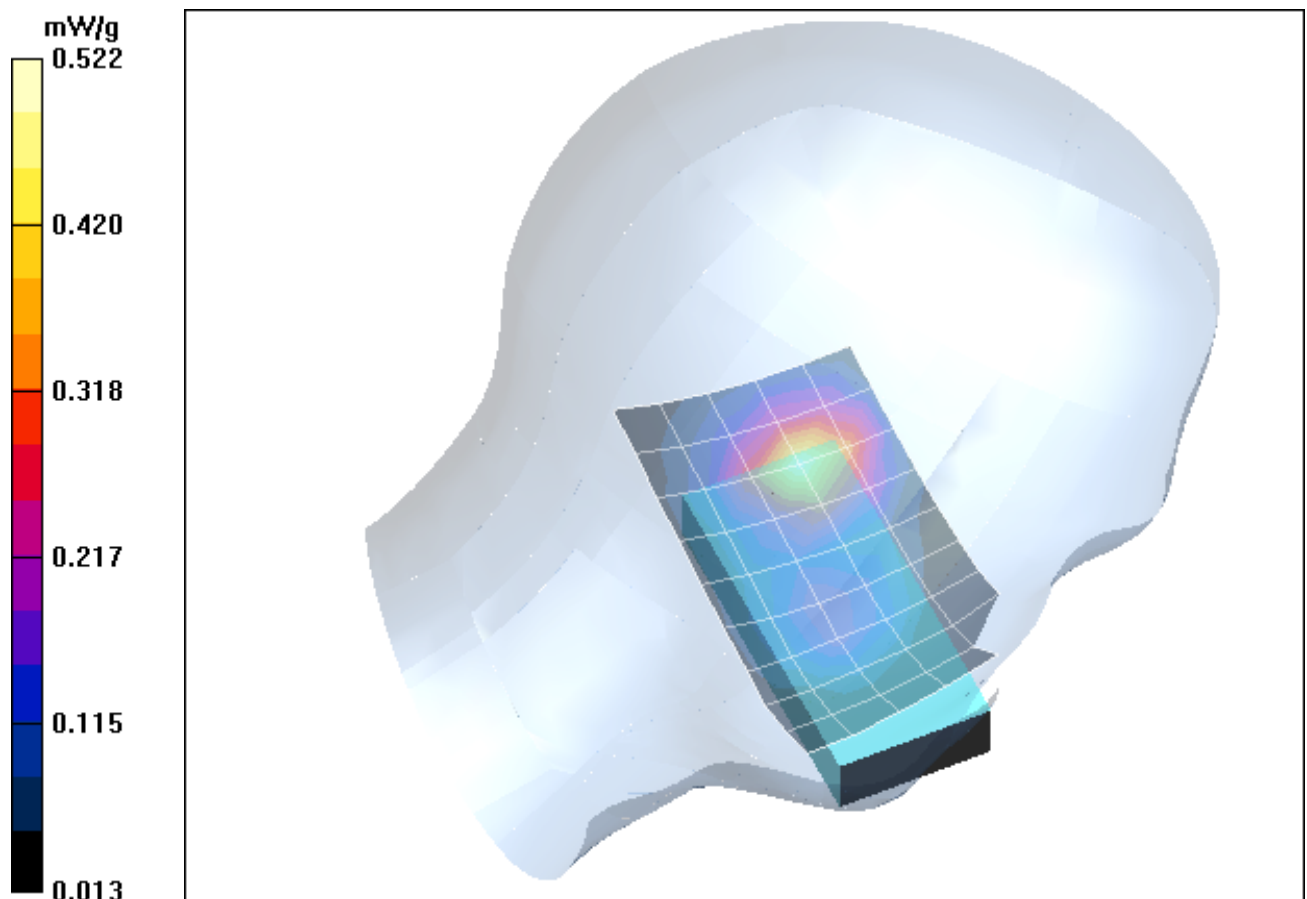


Fig. 5: SAR distribution for PCS 1900, channel 661, cheek position, left side of head (September 09, 2005; Ambient Temperature: 22.0° C; Liquid Temperature : 21.1° C).

Test Laboratory: IMST GmbH, DASY Blue (I); File Name: [421bplm_2_820mAh.da4](#)

DUT: Siemens; Type: C72; Serial: 354765000312421

Program Name: Tilted Left

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.43$ mho/m; $\epsilon_r = 41.7$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6R - SN1579; ConvF(5.28, 5.28, 5.28); Calibrated: 13.01.2005

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

- Electronics: DAE4 Sn631; Calibrated: 07.07.2005

- Phantom: SAM Glycol 1176; Type: Speag; Serial: 1176

- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

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

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

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

Reference Value = 20.4 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.798 W/kg

SAR(1 g) = 0.545 mW/g; SAR(10 g) = 0.321 mW/g

Maximum value of SAR (measured) = 0.605 mW/g

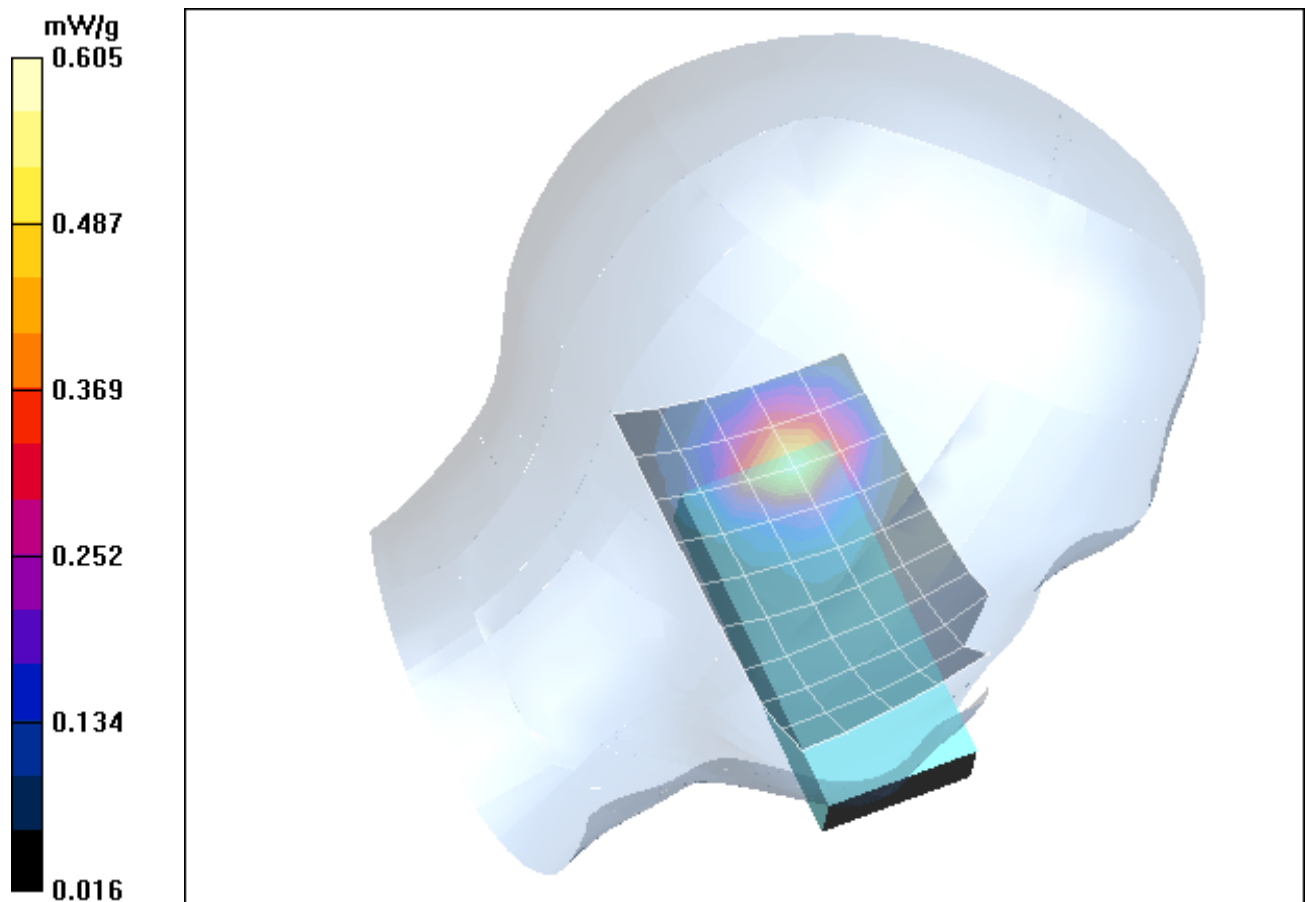


Fig. 6: SAR distribution for PCS 1900, channel 661, tilted position, left side of head (September 09, 2005; Ambient Temperature: 22.1° C; Liquid Temperature : 21.2° C).

Test Laboratory: IMST GmbH, DASY Blue (I); File Name: [421bprm_1_820mAh.da4](#)

DUT: Siemens; Type: C72; Serial: 354765000312421

Program Name: Cheek Right

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.43$ mho/m; $\epsilon_r = 41.7$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6R - SN1579; ConvF(5.28, 5.28, 5.28); Calibrated: 13.01.2005

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

- Electronics: DAE4 Sn631; Calibrated: 07.07.2005

- Phantom: SAM Glycol 1176; Type: Speag; Serial: 1176

- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

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

Maximum value of SAR (measured) = 0.451 mW/g

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

Reference Value = 18.9 V/m; Power Drift = -0.033 dB

Peak SAR (extrapolated) = 0.598 W/kg

SAR(1 g) = 0.436 mW/g; SAR(10 g) = 0.270 mW/g

Maximum value of SAR (measured) = 0.481 mW/g

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

Reference Value = 18.9 V/m; Power Drift = -0.033 dB

Peak SAR (extrapolated) = 0.361 W/kg

SAR(1 g) = 0.259 mW/g; SAR(10 g) = 0.160 mW/g

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

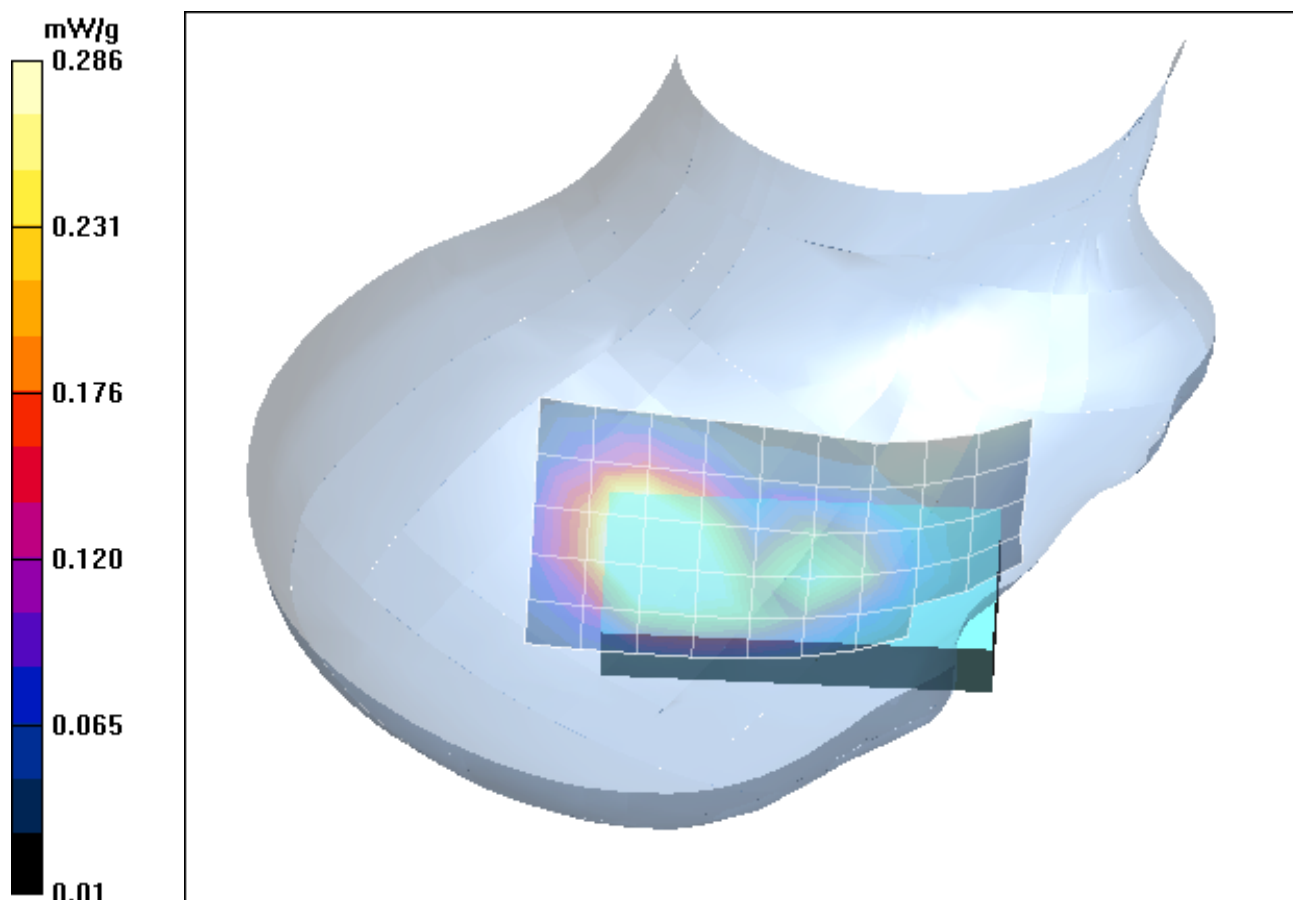


Fig. 7: SAR distribution for PCS 1900, channel 661, cheek position, right side of head (September 09, 2005; Ambient Temperature: 22.2° C; Liquid Temperature : 21.3° C).

Test Laboratory: IMST GmbH, DASY Blue (I); File Name: [421bprm 2 820mAh.da4](#)

DUT: Siemens; Type: C72; Serial: 354765000312421

Program Name: Tilted Right

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.43$ mho/m; $\epsilon_r = 41.7$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6R - SN1579; ConvF(5.28, 5.28, 5.28); Calibrated: 13.01.2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn631; Calibrated: 07.07.2005
- Phantom: SAM Glycol 1176; Type: Speag; Serial: 1176
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

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

Maximum value of SAR (measured) = 0.477 mW/g

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

Reference Value = 20.9 V/m; Power Drift = -0.012 dB

Peak SAR (extrapolated) = 0.764 W/kg

SAR(1 g) = 0.527 mW/g; SAR(10 g) = 0.312 mW/g

Maximum value of SAR (measured) = 0.590 mW/g

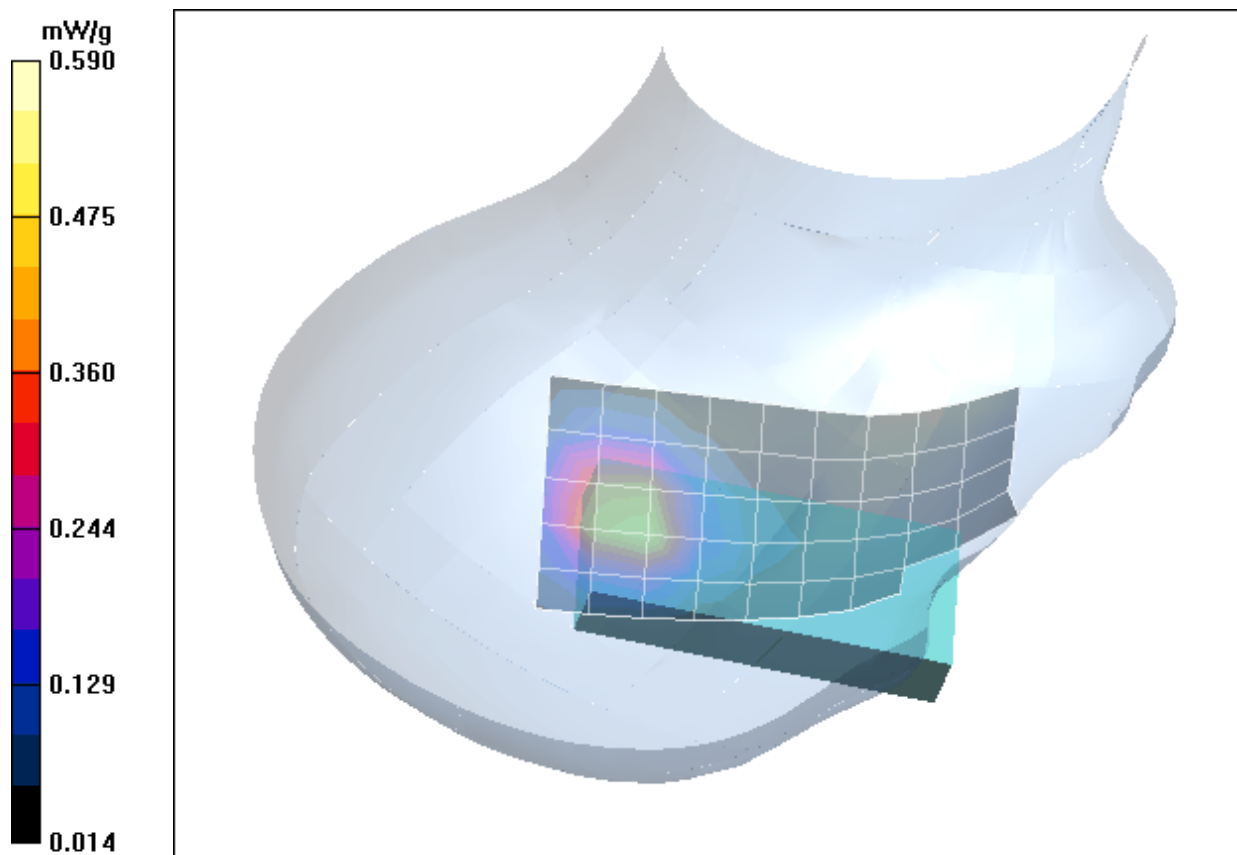


Fig. 8: SAR distribution for PCS 1900, channel 661, tilted position, right side of head (September 09, 2005; Ambient Temperature: 22.2 °C; Liquid Temperature : 21.3° C)

3 SAR Distribution Plots, PCS 1900 Body without accessory GSM mode

Test Laboratory: IMST GmbH, DASY Yellow (II); File Name: [421yphm_1_20mm_ohne_750.da4](#)

DUT: Siemens; Type: C72; Serial: 354765000312421

Program Name: Body Worn

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.56$ mho/m; $\epsilon_r = 53$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6R - SN1669; ConvF(4.52, 4.52, 4.52); Calibrated: 13.01.2005

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

- Electronics: DAE3 Sn335; Calibrated: 17.03.2005

- Phantom: SAM Glycol 1340; Type: QD 000 P40 CB; Serial: TP-1340

- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

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

Maximum value of SAR (measured) = 0.509 mW/g

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

Reference Value = 7.08 V/m; Power Drift = -0.017 dB

Peak SAR (extrapolated) = 0.800 W/kg

SAR(1 g) = 0.498 mW/g; SAR(10 g) = 0.284 mW/g

Maximum value of SAR (measured) = 0.553 mW/g

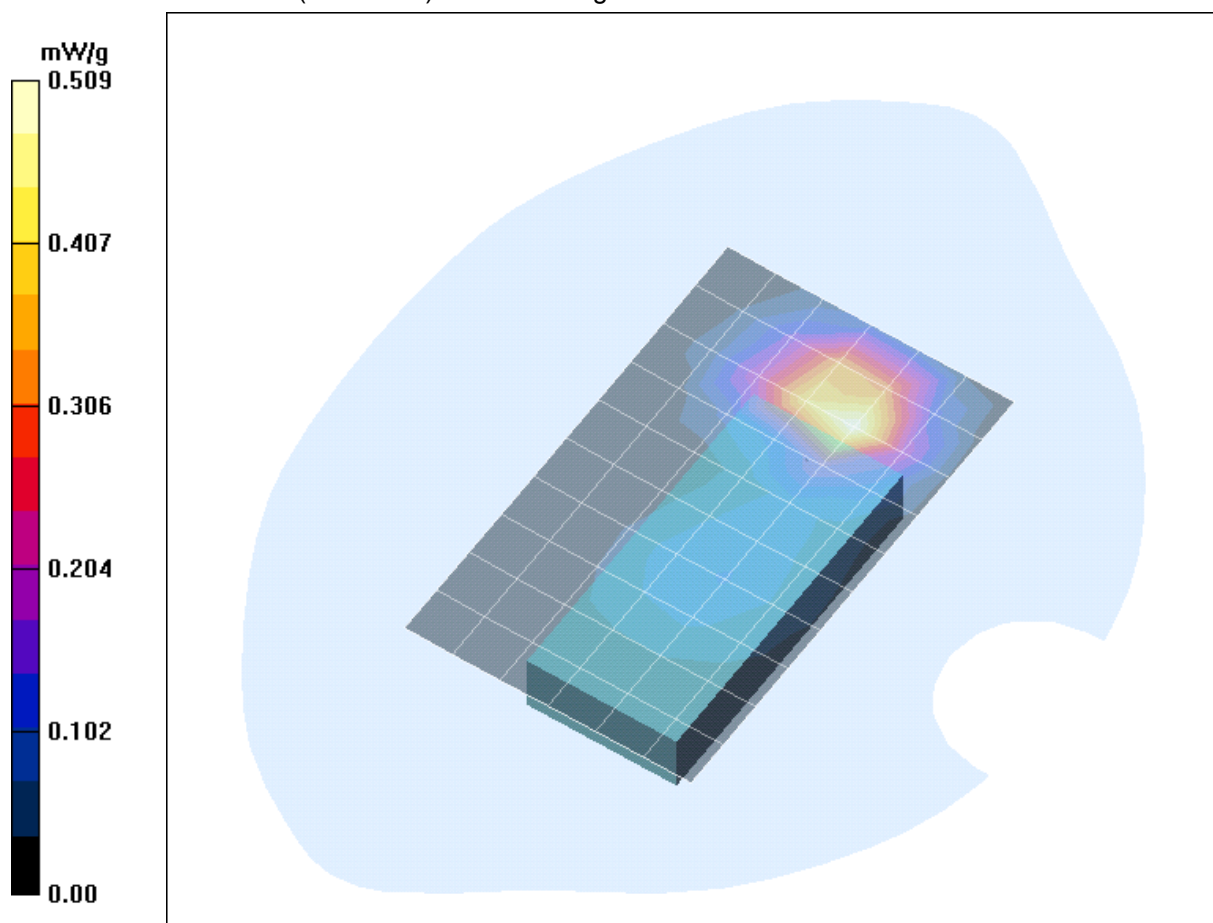


Fig. 9: SAR distribution for PCS 1900, channel 661, body worn configuration, antenna towards the phantom, with 20 mm distance and 750mAh bat. (September 12, 2005; Ambient Temperature: 22.0° C; Liquid Temperature: 21.0° C).

Test Laboratory: IMST GmbH, DASY Yellow (II); **File Name:** [421yphm_1_20mm_ohne_820.da4](#)

DUT: Siemens; **Type:** C72; **Serial:** 354765000312421

Program Name: Body Worn

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.56$ mho/m; $\epsilon_r = 53$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6R - SN1669; ConvF(4.52, 4.52, 4.52); Calibrated: 13.01.2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 17.03.2005
- Phantom: SAM Glycol 1340; Type: QD 000 P40 CB; Serial: TP-1340
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

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

Maximum value of SAR (measured) = 0.518 mW/g

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

Reference Value = 6.65 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 0.762 W/kg

SAR(1 g) = 0.487 mW/g; SAR(10 g) = 0.281 mW/g

Maximum value of SAR (measured) = 0.538 mW/g

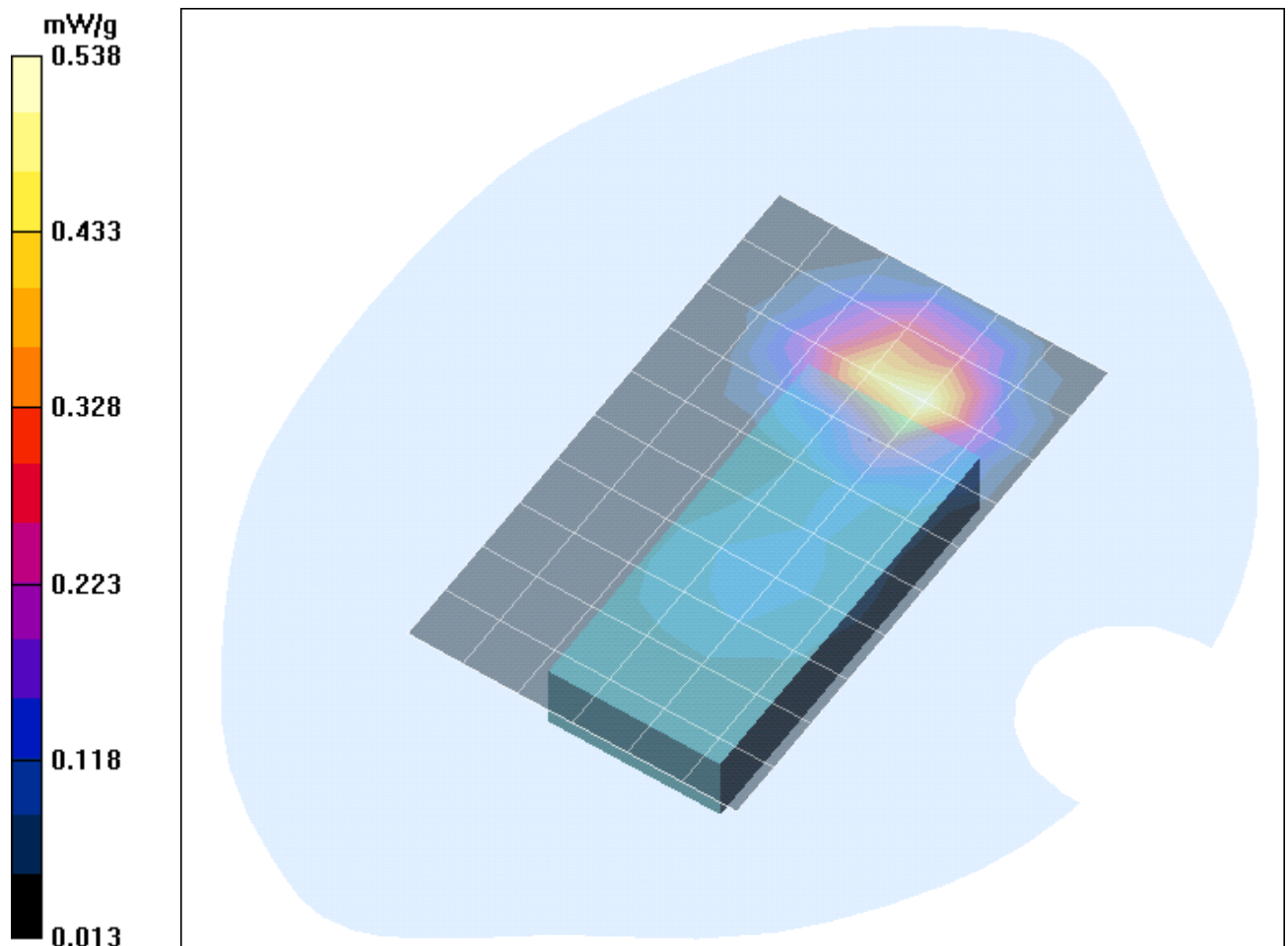


Fig. 10: SAR distribution for PCS 1900, channel 661, body worn configuration, antenna towards the phantom, with 20 mm distance and 820mAh bat. (September 12, 2005; Ambient Temperature: 22.0° C; Liquid Temperature: 21.0° C).

4 SAR Distribution Plots, PCS 1900 Body with headset in GSM mode

Test Laboratory: IMST GmbH, DASY Yellow (II); File Name: [421yphm 2 20mm headset 750.da4](#)

DUT: Siemens; Type: C72; Serial: 354765000312421

Program Name: Body Worn

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.56$ mho/m; $\epsilon_r = 53$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6R - SN1669; ConvF(4.52, 4.52, 4.52); Calibrated: 13.01.2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 17.03.2005
- Phantom: SAM Glycol 1340; Type: QD 000 P40 CB; Serial: TP-1340
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

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

Maximum value of SAR (measured) = 0.499 mW/g

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

Reference Value = 6.89 V/m; Power Drift = 0.013 dB

Peak SAR (extrapolated) = 0.778 W/kg

SAR(1 g) = 0.489 mW/g; SAR(10 g) = 0.279 mW/g

Maximum value of SAR (measured) = 0.546 mW/g

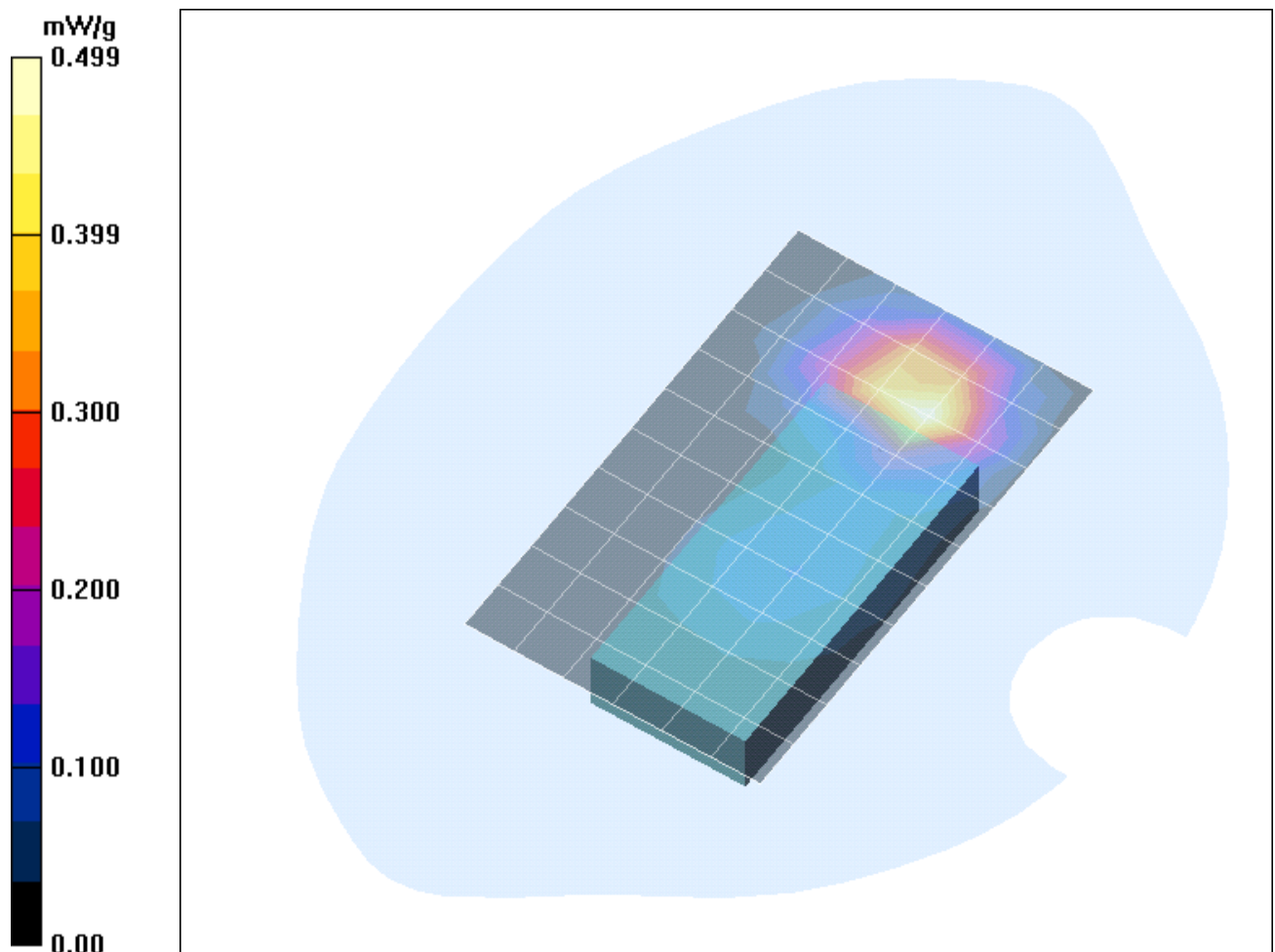


Fig. 11: SAR distribution for PCS 1900, channel 661, body worn configuration, antenna towards the phantom, with 20 mm distance and 750mAh bat (September 12, 2005; Ambient Temperature: 22.0° C; Liquid Temperature: 21.0° C).

Test Laboratory: IMST GmbH, DASY Yellow (II); File Name: [421yphm_2_20mm_headset_820.da4](#)

DUT: Siemens; Type: C72; Serial: 354765000312421

Program Name: Body Worn

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.56$ mho/m; $\epsilon_r = 53$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6R - SN1669; ConvF(4.52, 4.52, 4.52); Calibrated: 13.01.2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 17.03.2005
- Phantom: SAM Glycol 1340; Type: QD 000 P40 CB; Serial: TP-1340
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

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

Maximum value of SAR (measured) = 0.483 mW/g

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

Reference Value = 6.45 V/m; Power Drift = 0.034 dB

Peak SAR (extrapolated) = 0.731 W/kg

SAR(1 g) = 0.458 mW/g; SAR(10 g) = 0.262 mW/g

Maximum value of SAR (measured) = 0.508 mW/g

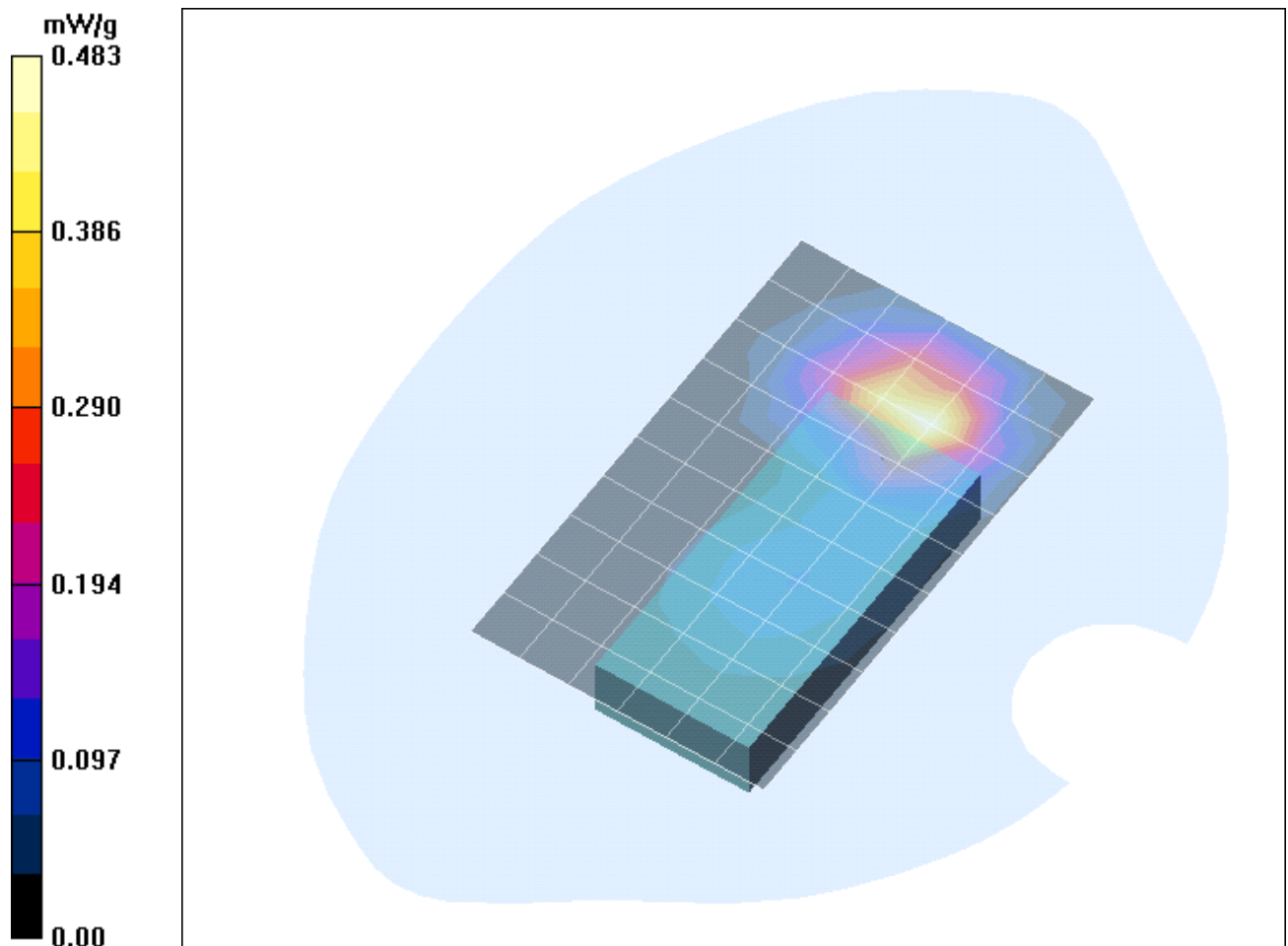


Fig. 12: SAR distribution for PCS 1900, channel 661, body worn configuration, antenna towards the phantom, with 20 mm distance and 820mAh bat (September 12, 2005; Ambient Temperature: 22.0° C; Liquid Temperature: 21.0° C).

5 SAR Distribution Plots, PCS 1900 Body with data cable in GPRS mode

Test Laboratory: IMST GmbH, DASY Yellow (II); File Name: [421yphm_3_20mm_data_750.da4](#)

DUT: Siemens; Type: C72; Serial: 354765000312421

Program Name: Body Worn

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.56$ mho/m; $\epsilon_r = 53$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6R - SN1669; ConvF(4.52, 4.52, 4.52); Calibrated: 13.01.2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 17.03.2005
- Phantom: SAM Glycol 1340; Type: QD 000 P40 CB; Serial: TP-1340
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

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

Maximum value of SAR (measured) = 0.984 mW/g

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

Reference Value = 11.3 V/m; Power Drift = 0.051 dB

Peak SAR (extrapolated) = 1.57 W/kg

SAR(1 g) = 0.980 mW/g; SAR(10 g) = 0.557 mW/g

Maximum value of SAR (measured) = 1.09 mW/g

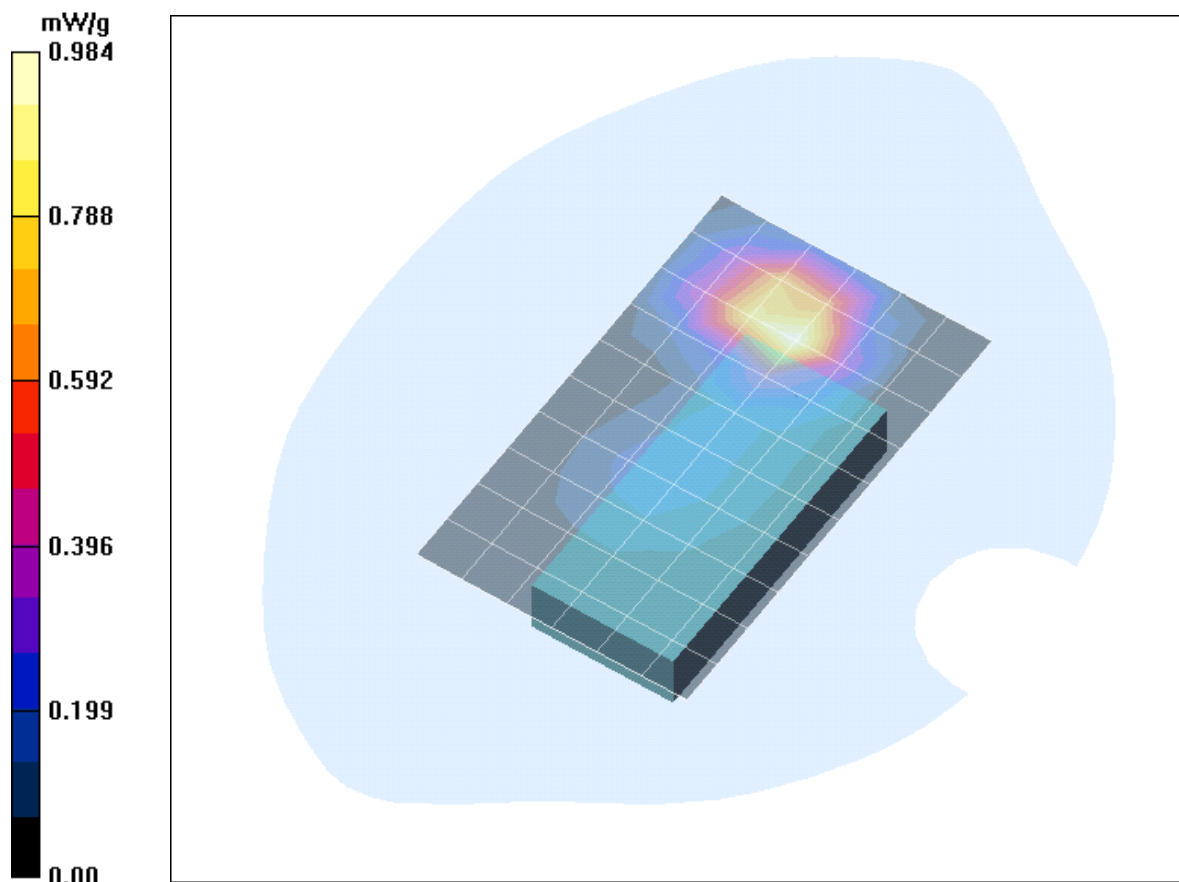


Fig. 13: SAR distribution for GPRS 1900 Class 10, channel 661, body worn configuration, antenna towards the phantom, with 20 mm distance and 750mAh bat. (September 12, 2005; Ambient Temperature: 22.0° C; Liquid Temperature: 21.2° C).

Test Laboratory: IMST GmbH, DASY Yellow (II); File Name: [421yphh_3_20mm_data_820.da4](#)

DUT: Siemens; Type: C72; Serial: 354765000312421

Program Name: Body Worn

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

Medium parameters used: $f = 1909.8$ MHz; $\sigma = 1.56$ mho/m; $\epsilon_r = 53$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6R - SN1669; ConvF(4.52, 4.52, 4.52); Calibrated: 13.01.2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 17.03.2005
- Phantom: SAM Glycol 1340; Type: QD 000 P40 CB; Serial: TP-1340
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

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

Maximum value of SAR (measured) = 0.923 mW/g

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

Reference Value = 8.52 V/m; Power Drift = -0.032 dB

Peak SAR (extrapolated) = 1.51 W/kg

SAR(1 g) = 0.938 mW/g; SAR(10 g) = 0.542 mW/g

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

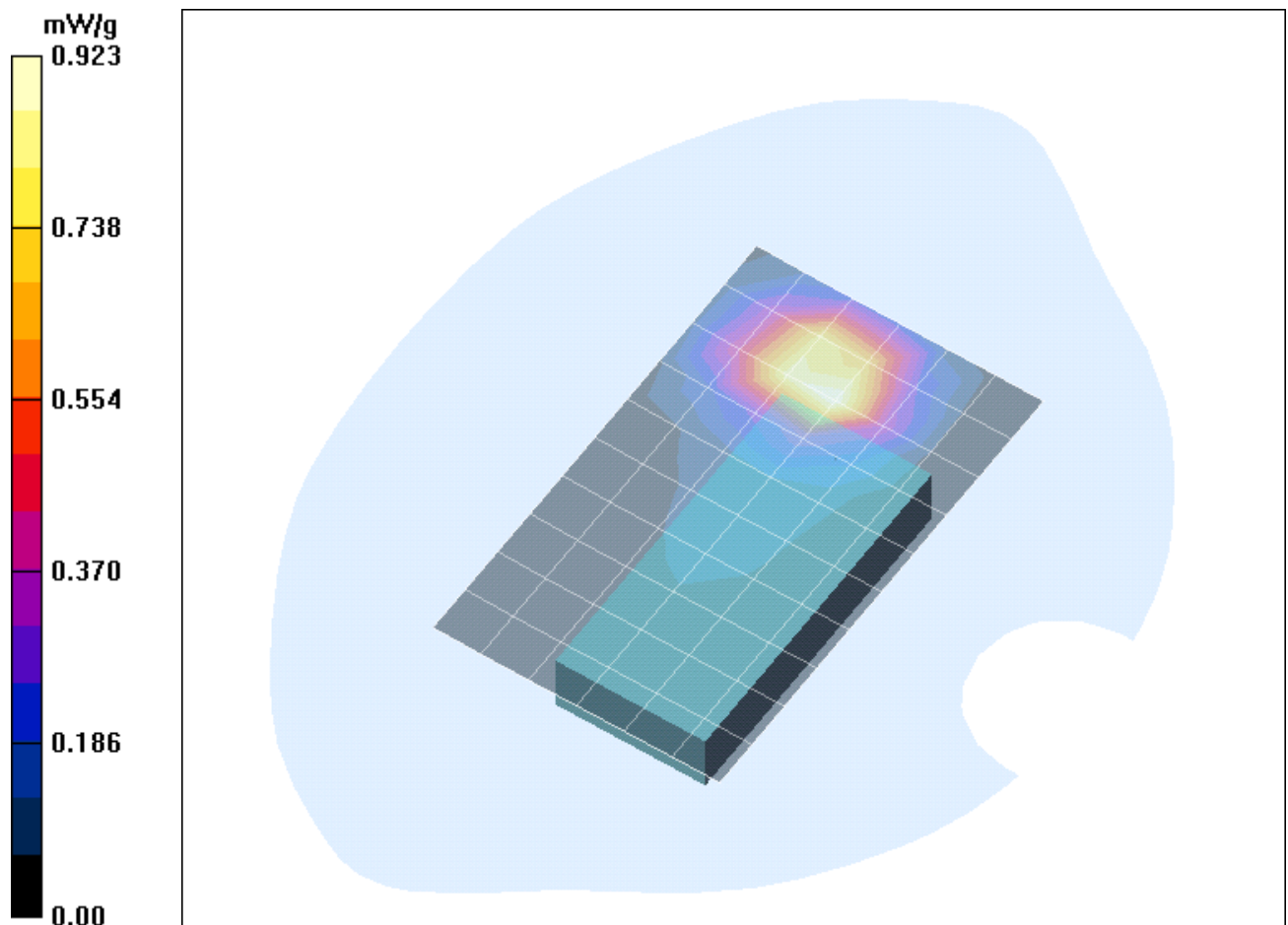


Fig. 14: SAR distribution for GPRS 1900 Class 10, channel 810, body worn configuration, antenna towards the phantom, with 20 mm distance and 820mAh bat. (September 12, 2005; Ambient Temperature: 22.0° C; Liquid Temperature: 21.0° C).

6 SAR Distribution Plots, PCS 1900 Body GPRS mode, PTT

Test Laboratory: IMST GmbH, DASY Yellow (II); File Name: [421yphm_4_25mm_PTT_750.da4](#)

DUT: Siemens; Type: C72; Serial: 354765000312421

Program Name: Body Worn

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.56$ mho/m; $\epsilon_r = 53$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6R - SN1669; ConvF(4.52, 4.52, 4.52); Calibrated: 13.01.2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 17.03.2005
- Phantom: SAM Glycol 1340; Type: QD 000 P40 CB; Serial: TP-1340
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

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

Maximum value of SAR (measured) = 0.158 mW/g

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

Reference Value = 7.07 V/m; Power Drift = 0.2 dB

Peak SAR (extrapolated) = 0.176 W/kg

SAR(1 g) = 0.127 mW/g; SAR(10 g) = 0.078 mW/g

Maximum value of SAR (measured) = 0.139 mW/g

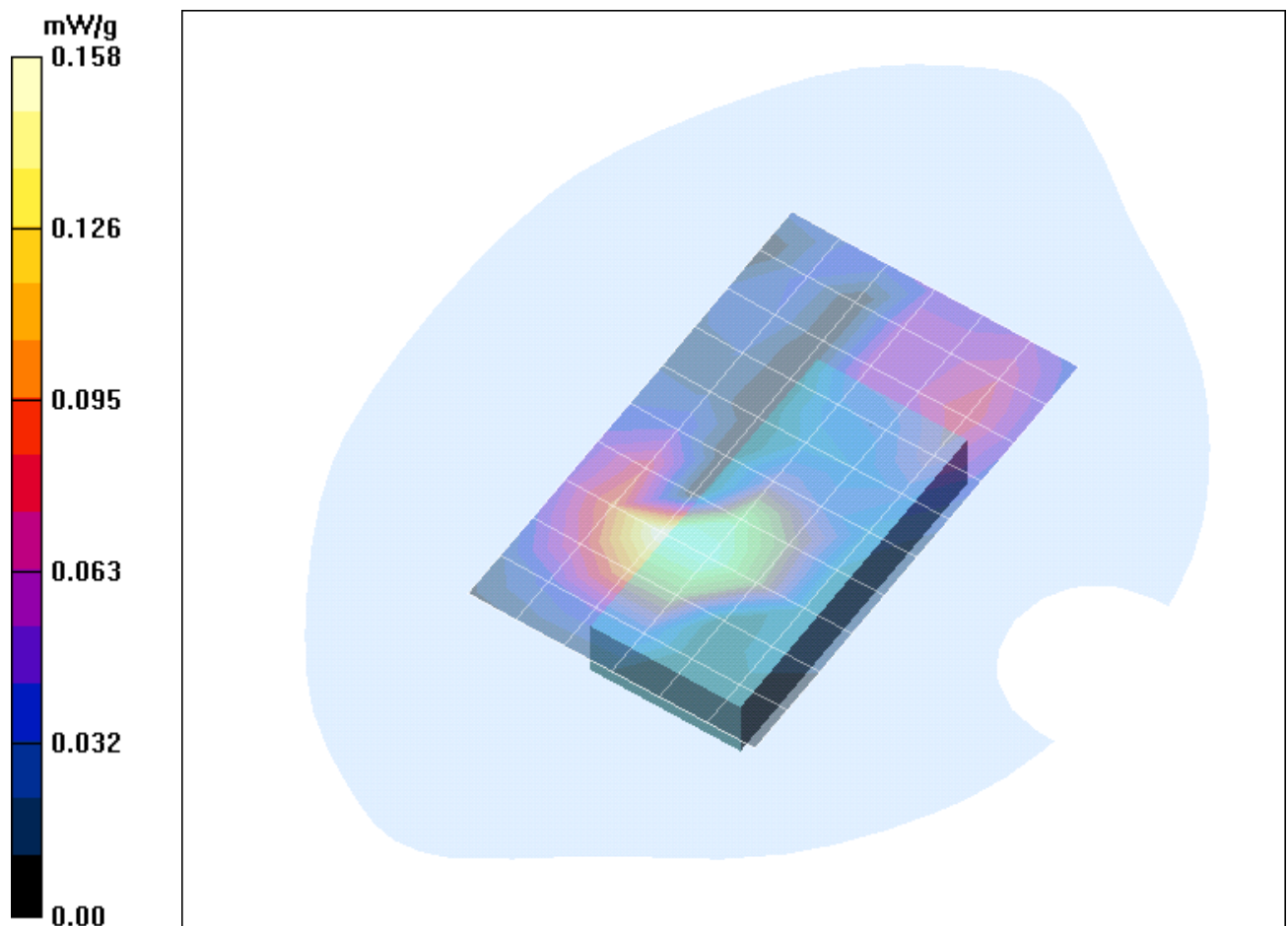


Fig. 15: SAR distribution for GPRS 1900, channel 661, body worn configuration, antenna towards the ground, with 25 mm distance and 750mAh Bat (September 12, 2005; Ambient Temperature: 22.0° C; Liquid Temperature: 21.2° C).

Test Laboratory: IMST GmbH, DASY Yellow (II); **File Name:** [421yphm_4_25mm_PTT_820.da4](#)

DUT: Siemens; **Type:** C72; **Serial:** 354765000312421

Program Name: Body Worn

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.56$ mho/m; $\epsilon_r = 53$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ET3DV6R - SN1669; ConvF(4.52, 4.52, 4.52); Calibrated: 13.01.2005

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

- Electronics: DAE3 Sn335; Calibrated: 17.03.2005

- Phantom: SAM Glycol 1340; Type: QD 000 P40 CB; Serial: TP-1340

- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

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

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

Body Worn/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm; Reference Value = 6.98 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.225 W/kg

SAR(1 g) = 0.156 mW/g; SAR(10 g) = 0.101 mW/g

Maximum value of SAR (measured) = 0.169 mW/g

Body Worn/Zoom Scan (7x7x7)/Cube 1: Measurement grid: dx=5mm, dy=5mm, dz=5mm; Reference Value = 6.98 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 0.125 W/kg

SAR(1 g) = 0.086 mW/g; SAR(10 g) = 0.055 mW/g

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

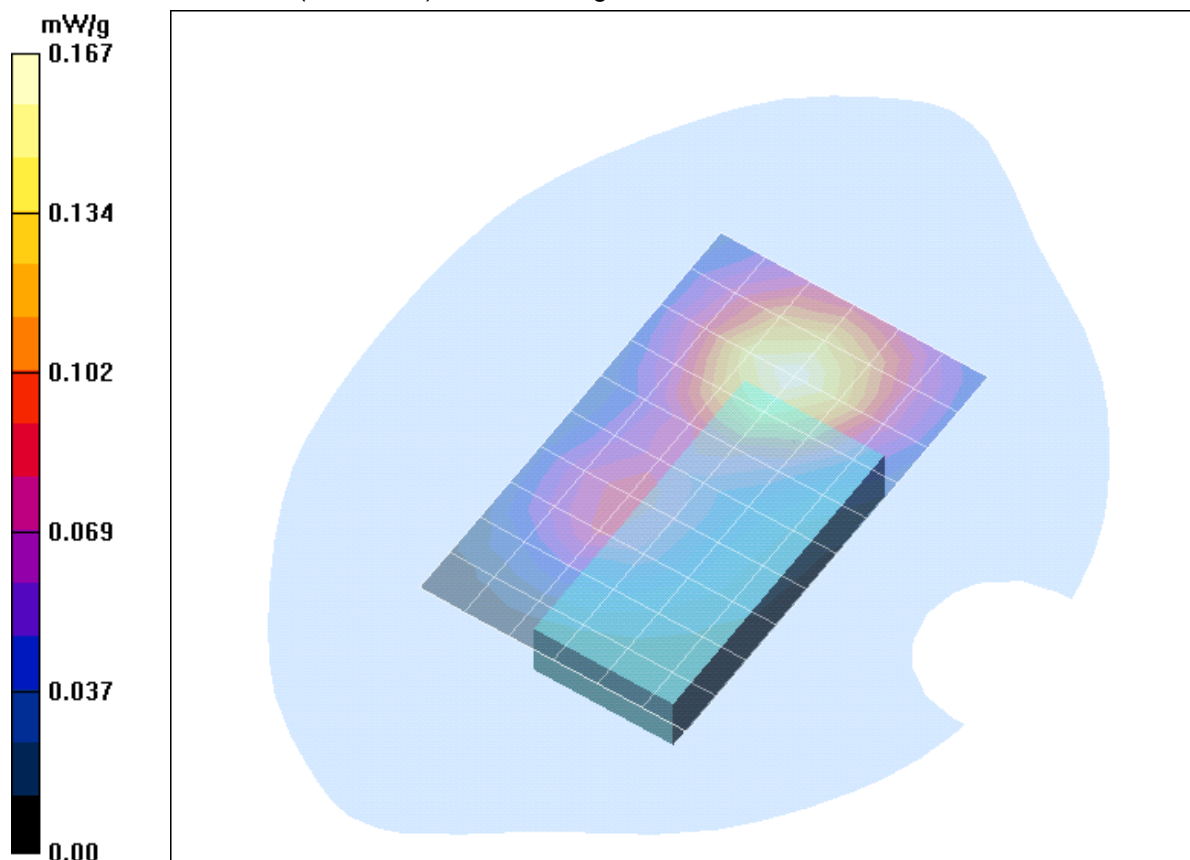


Fig. 16: SAR distribution for GPRS 1900, channel 810, body worn configuration, antenna towards the ground, with 25 mm distance and 820mAh Bat (September 12, 2005; Ambient Temperature: 21.9° C; Liquid Temperature: 21.0° C).

7 SAR z-axis scans (Validation)

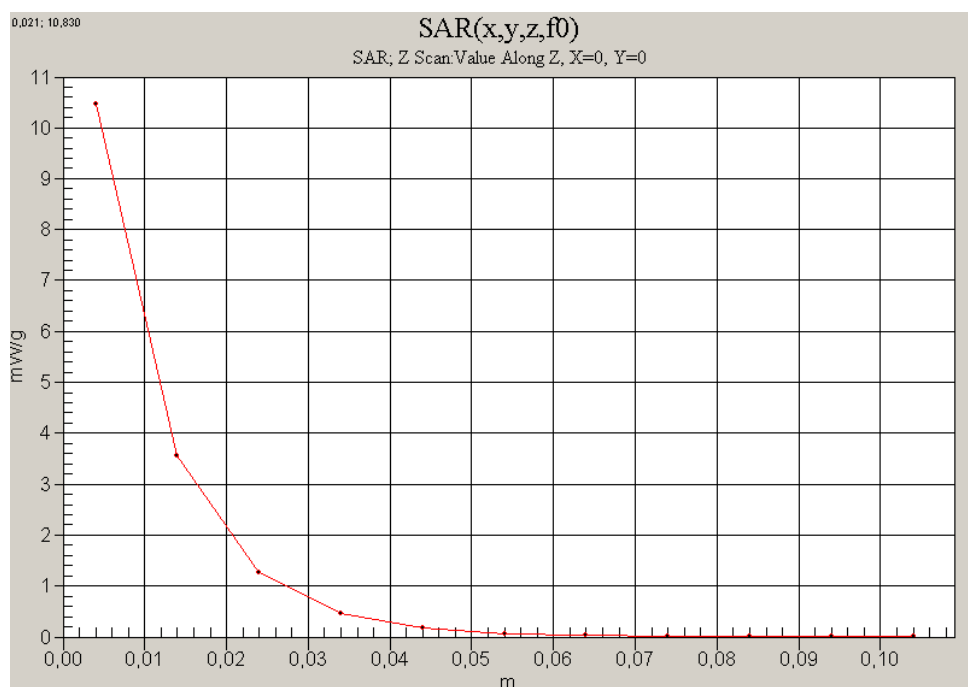


Fig. 17: SAR versus liquid depth, 1900 MHz, head (September 09, 2005; Ambient Temperature: 21.8° C; Liquid Temperature : 20.9° C).

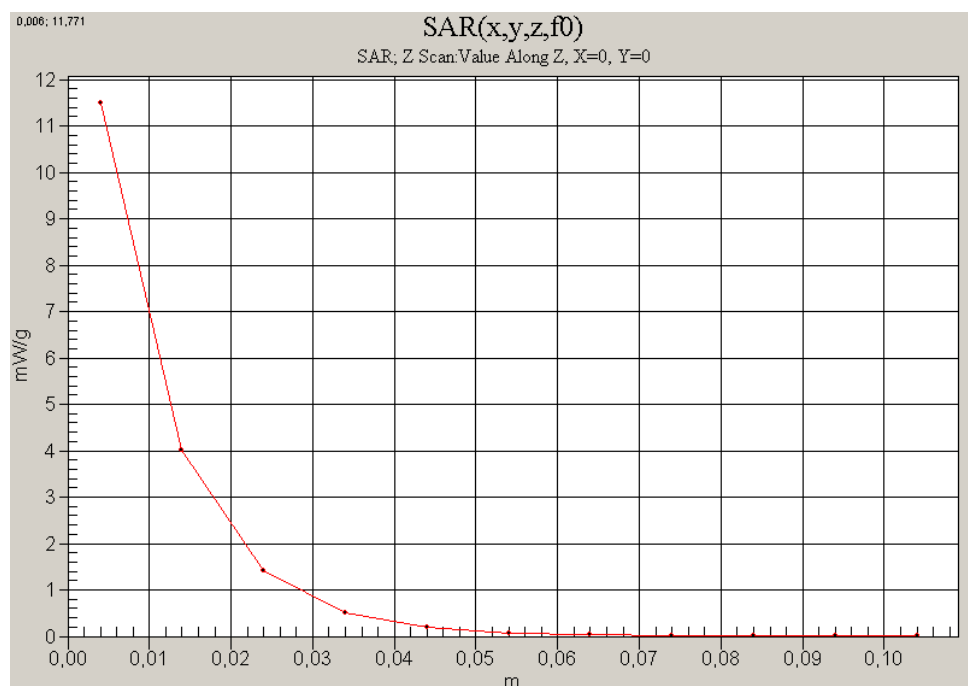


Fig. 18: SAR versus liquid depth, 1900 MHz, body (September 12, 2005; Ambient Temperature: 22.0° C; Liquid Temperature : 20.9° C).

8 SAR z-axis scans (Measurements)

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

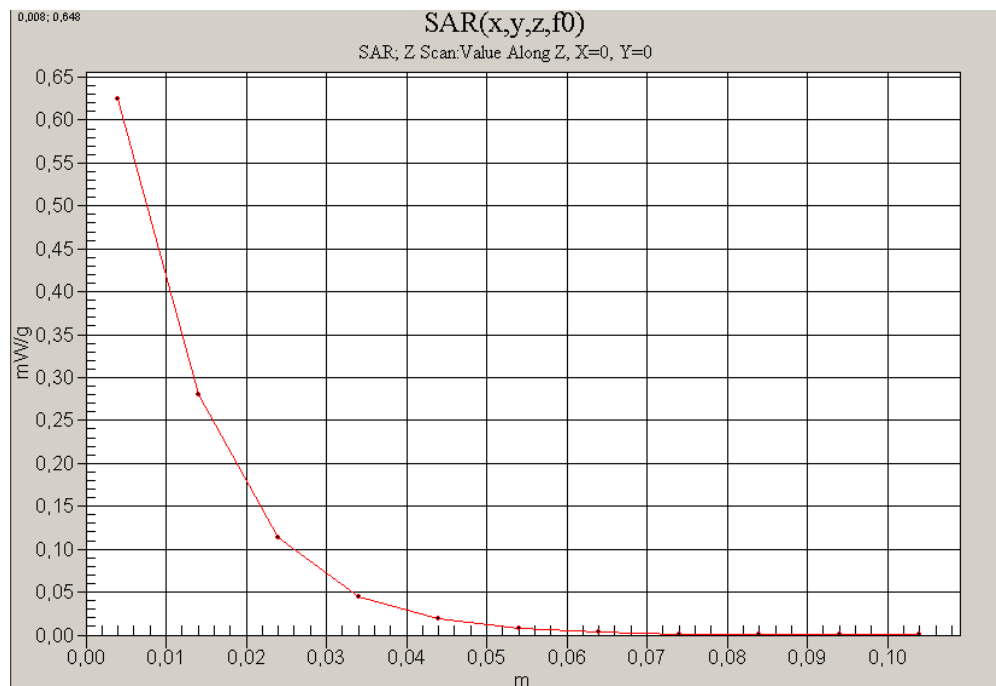


Fig. 19: SAR versus liquid depth, head: PCS 1900, channel 661, tilted position, leftside of head with 750mAh Bat. (September 09, 2005; Ambient Temperature: 22.1°C; Liquid Temperature : 21.2° C).

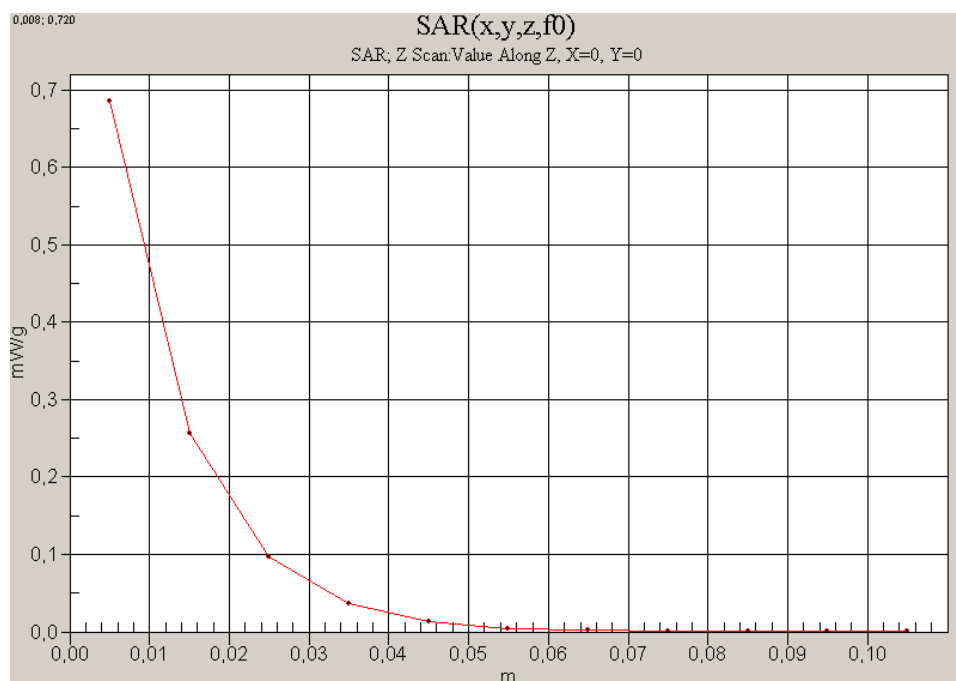


Fig. 20: SAR versus liquid depth, body: GPRS 1900 Class 10, channel 661, body worn configuration, antenna towards the phantom, data cable, with 20 mm distance and 750mAh Bat (September 12, 2005; Ambient Temperature: 22.0° C; Liquid Temperature: 21.2° C).