
Appendix for the Report

Dosimetric Assessment of the Siemens AX76 (FCC ID: PWX-AX76)

According to the FCC Requirements

SAR Distribution Plots

August 11, 2005
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1 SAR Distribution Plots, GSM 850 Head

Test Laboratory: IMST GmbH, DASY Blue (I); File Name: [538balm_1.da4](#)

DUT: Siemens; Type: AX76 ; Serial: 004400012074538

Program Name: Cheek Left

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:8.3

Medium parameters used: $f = 836.6 \text{ MHz}$; $\sigma = 0.89 \text{ mho/m}$; $\epsilon_r = 41.6$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6R - SN1669; ConvF(6.61, 6.61, 6.61); Calibrated: 13.01.2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 17.03.2005
- Phantom: SAM Sugar 1059; Type: Speag; Serial: 1059
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Cheek Left/Area Scan (6x10x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 0.549 mW/g

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

Reference Value = 22.8 V/m; Power Drift = 0.042 dB

Peak SAR (extrapolated) = 0.942 W/kg

SAR(1 g) = 0.593 mW/g; SAR(10 g) = 0.397 mW/g

Maximum value of SAR (measured) = 0.645 mW/g

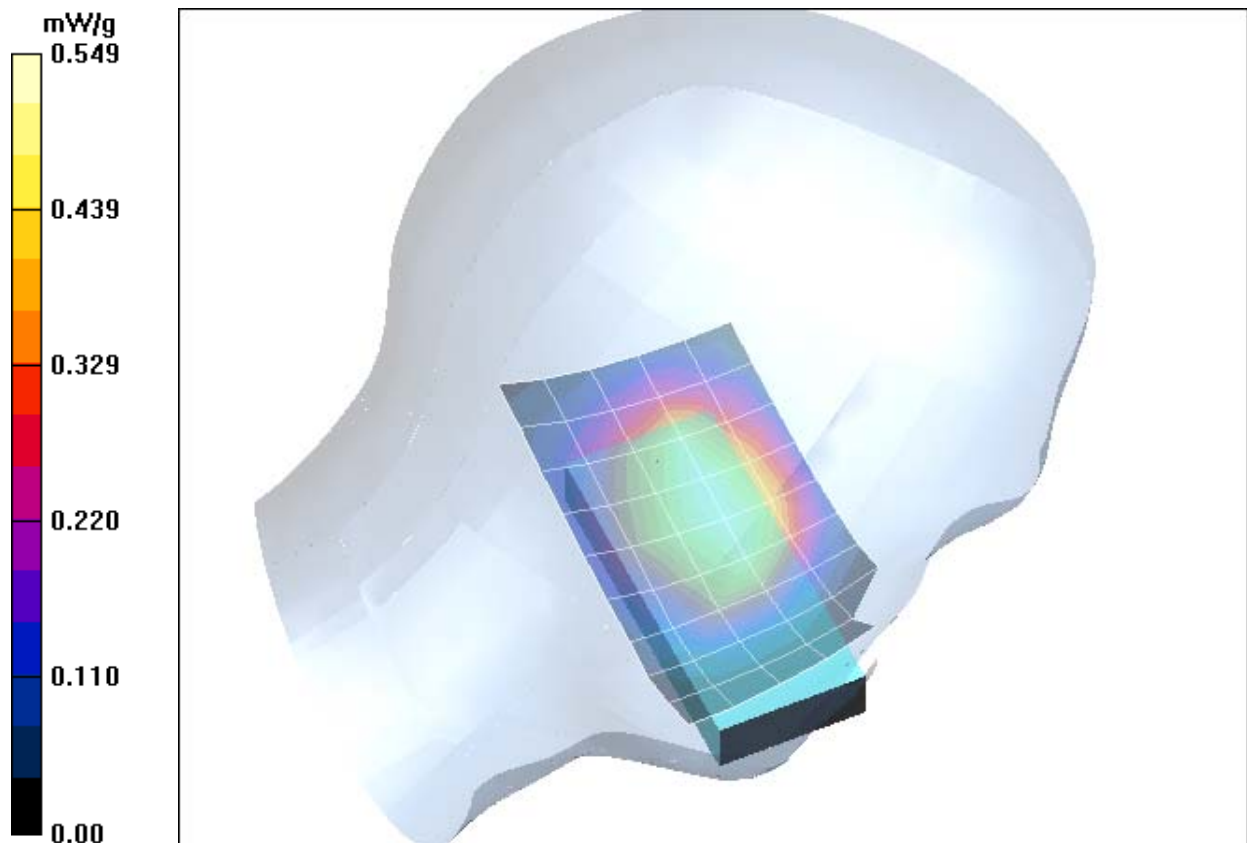


Fig. 1: SAR distribution for GSM 850, channel 190, cheek position, left side of head (August 02, 2005; Ambient Temp.: 21.9° C; Liquid Temperature: 21.4° C).

Test Laboratory: IMST GmbH, DASY Blue (I); File Name: [538balm_2.da4](#)

DUT: Siemens; Type: AX76 ; Serial: 004400012074538

Program Name: Tilted Left

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:8.3

Medium parameters used: $f = 836.6 \text{ MHz}$; $\sigma = 0.89 \text{ mho/m}$; $\epsilon_r = 41.6$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6R - SN1669; ConvF(6.61, 6.61, 6.61); Calibrated: 13.01.2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 17.03.2005
- Phantom: SAM Sugar 1059; Type: Speag; Serial: 1059
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Tilted Left/Area Scan (6x10x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

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

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

Reference Value = 23.0 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 0.772 W/kg

SAR(1 g) = 0.439 mW/g; SAR(10 g) = 0.293 mW/g

Maximum value of SAR (measured) = 0.474 mW/g

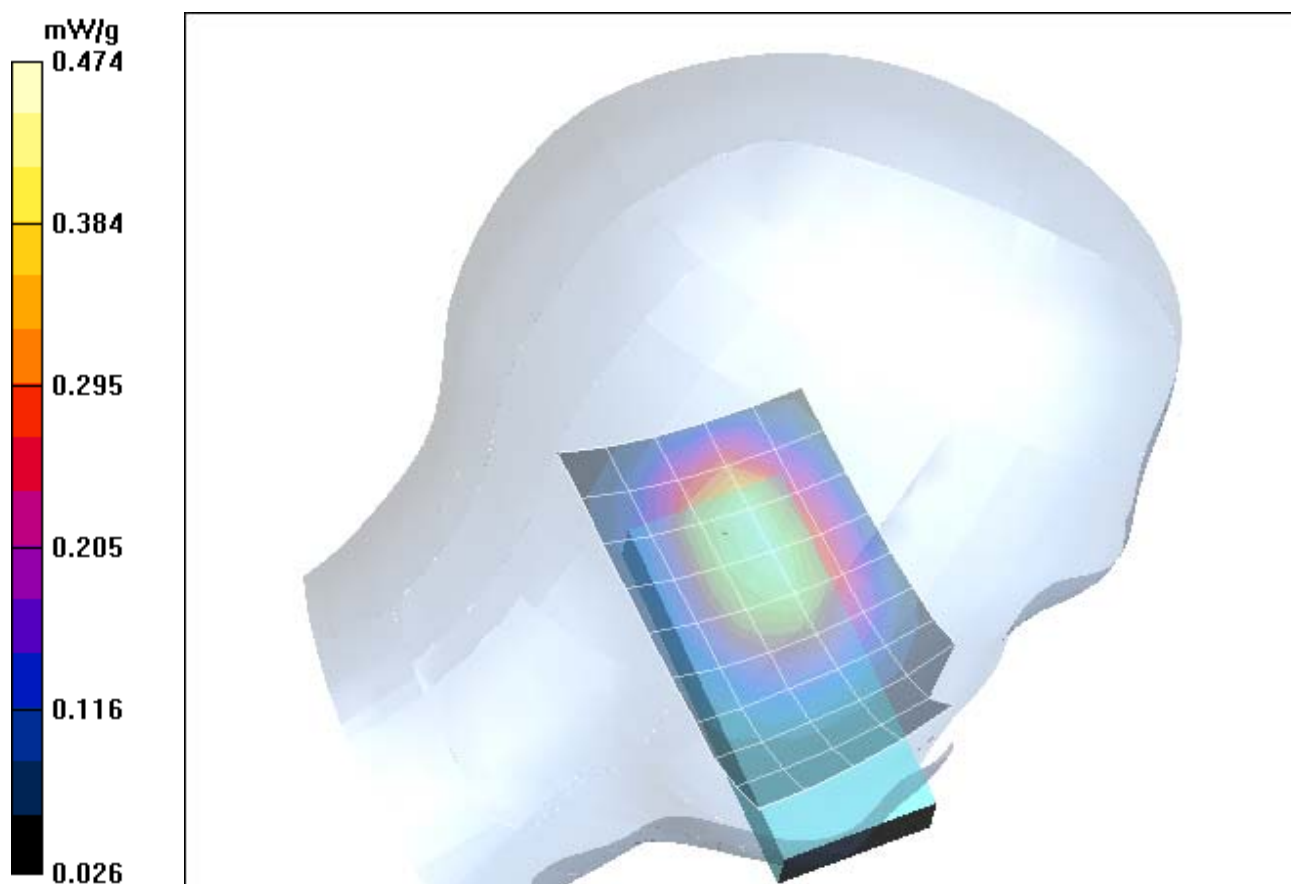


Fig. 2: SAR distribution for GSM 850, channel 190, tilted position, left side of head (August 02, 2005; Ambient Temp.: 22.0° C; Liquid Temperature: 21.4° C).

Test Laboratory: IMST GmbH, DASY Blue (I); File Name: [538barm_1.da4](#)

DUT: Siemens; Type: AX76 ; Serial: 004400012074538

Program Name: Cheek Right

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:8.3

Medium parameters used: $f = 836.6$ MHz; $\sigma = 0.89$ mho/m; $\epsilon_r = 41.6$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6R - SN1669; ConvF(6.61, 6.61, 6.61); Calibrated: 13.01.2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 17.03.2005
- Phantom: SAM Sugar 1059; Type: Speag; Serial: 1059
- 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) = 0.483 mW/g

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

Reference Value = 21.8 V/m; Power Drift = -0.071 dB

Peak SAR (extrapolated) = 0.878 W/kg

SAR(1 g) = 0.530 mW/g; SAR(10 g) = 0.347 mW/g

Maximum value of SAR (measured) = 0.575 mW/g

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

Reference Value = 21.8 V/m; Power Drift = -0.071 dB

Peak SAR (extrapolated) = 0.849 W/kg

SAR(1 g) = 0.487 mW/g; SAR(10 g) = 0.329 mW/g

Maximum value of SAR (measured) = 0.578 mW/g

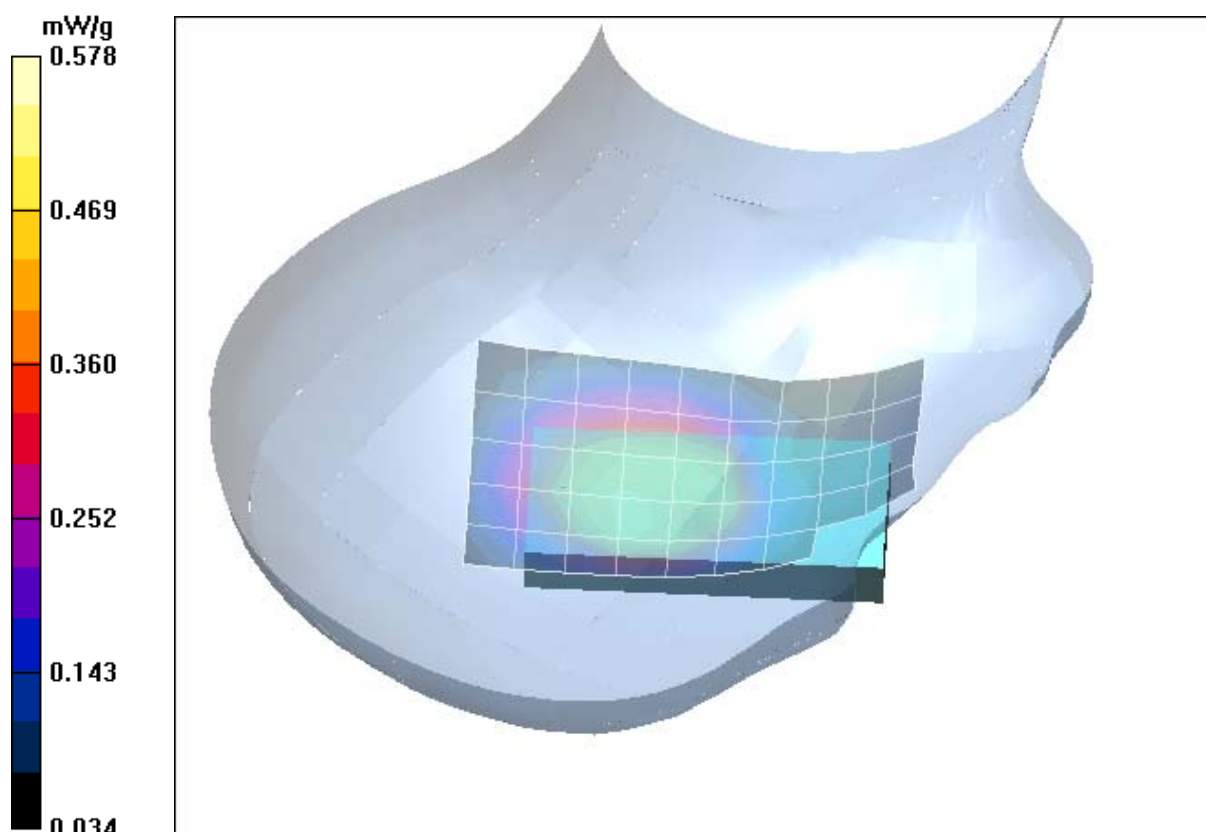


Fig. 3: SAR distribution for GSM 850, channel 190, cheek position, right side of head (August 02, 2005; Ambient Temp.: 22.0° C; Liquid Temperature : 21.5° C).

Test Laboratory: IMST GmbH, DASY Blue (I); **File Name:** [538barm_2.da4](#)

DUT: Siemens; **Type:** AX76 ; **Serial:** 004400012074538

Program Name: Tilted Right

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:8.3

Medium parameters used: $f = 836.6$ MHz; $\sigma = 0.89$ mho/m; $\epsilon_r = 41.6$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6R - SN1669; ConvF(6.61, 6.61, 6.61); Calibrated: 13.01.2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 17.03.2005
- Phantom: SAM Sugar 1059; Type: Speag; Serial: 1059
- 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) = 0.471 mW/g

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

Reference Value = 22.3 V/m; Power Drift = 0.060 dB

Peak SAR (extrapolated) = 0.619 W/kg

SAR(1 g) = 0.448 mW/g; SAR(10 g) = 0.310 mW/g

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

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

Reference Value = 22.3 V/m; Power Drift = 0.060 dB

Peak SAR (extrapolated) = 0.751 W/kg

SAR(1 g) = 0.430 mW/g; SAR(10 g) = 0.282 mW/g

Maximum value of SAR (measured) = 0.476 mW/g

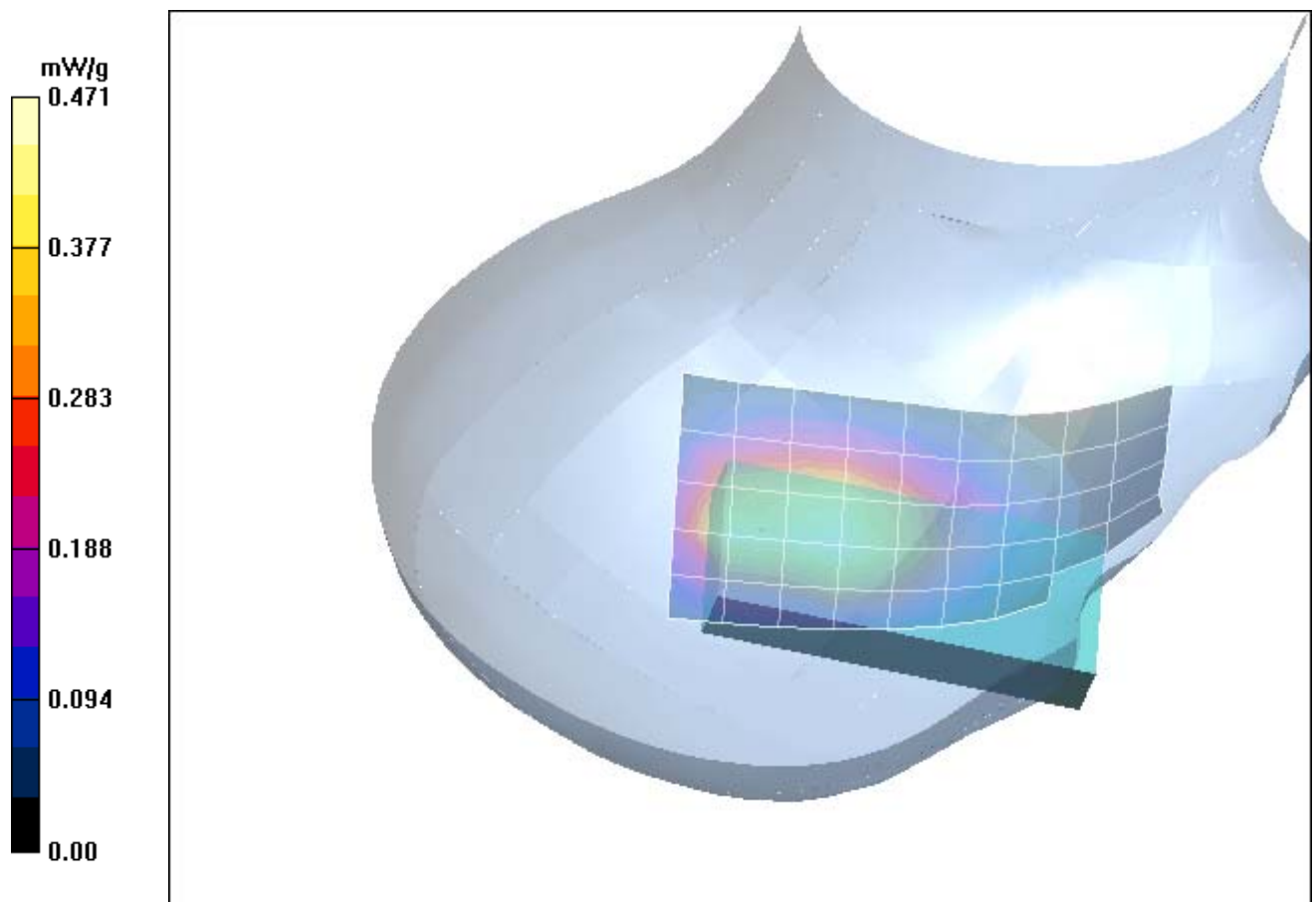


Fig. 4: SAR distribution for GSM 850, channel 190, tilted position, right side of head (August 02, 2005; Ambient Temp.: 22.0° C; Liquid Temperature : 21.4° C).

2 SAR Distribution Plots, GSM 850 Head with camera

Test Laboratory: IMST GmbH, DASY Blue (I); File Name: [5238balm_1_cam.da4](#)

DUT: Siemens; Type: AX76 ; Serial: 004400012074538

Program Name: Cheek Left

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:8.3

Medium parameters used: $f = 836.6$ MHz; $\sigma = 0.89$ mho/m; $\epsilon_r = 41.6$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6R - SN1669; ConvF(6.61, 6.61, 6.61); Calibrated: 13.01.2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 17.03.2005
- Phantom: SAM Sugar 1059; Type: Speag; Serial: 1059
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Cheek Left/Area Scan (6x14x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.260 mW/g

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

Reference Value = 15.8 V/m; Power Drift = -0.064 dB

Peak SAR (extrapolated) = 0.642 W/kg

SAR(1 g) = 0.305 mW/g; SAR(10 g) = 0.165 mW/g

Maximum value of SAR (measured) = 0.335 mW/g

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

Reference Value = 15.8 V/m; Power Drift = -0.064 dB

Peak SAR (extrapolated) = 0.458 W/kg

SAR(1 g) = 0.243 mW/g; SAR(10 g) = 0.173 mW/g

Maximum value of SAR (measured) = 0.280 mW/g

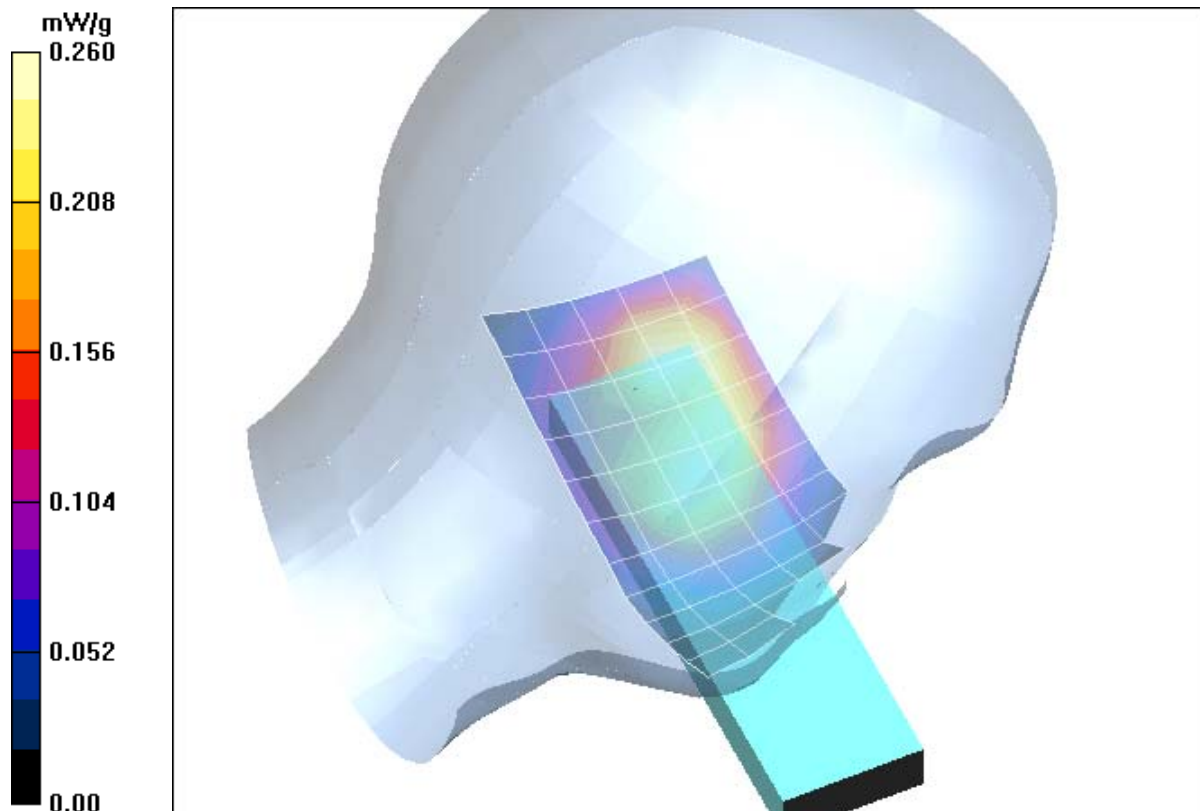


Fig. 5: SAR distribution for GSM 850, channel 190, cheek position, left side of head (August 02, 2005; Ambient Temp.: 21.9° C; Liquid Temperature: 21.4° C).

Test Laboratory: IMST GmbH, DASY Blue (I); **File Name:** [538balm_2_cam.da4](#)

DUT: Siemens; **Type:** AX76 ; **Serial:** 004400012074538

Program Name: Tilted Left

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:8.3

Medium parameters used: $f = 836.6$ MHz; $\sigma = 0.89$ mho/m; $\epsilon_r = 41.6$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6R - SN1669; ConvF(6.61, 6.61, 6.61); Calibrated: 13.01.2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 17.03.2005
- Phantom: SAM Sugar 1059; Type: Speag; Serial: 1059
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Tilted Left/Area Scan (6x14x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.203 mW/g

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

Reference Value = 13.0 V/m; Power Drift = 0.029 dB

Peak SAR (extrapolated) = 0.725 W/kg

SAR(1 g) = 0.281 mW/g; SAR(10 g) = 0.134 mW/g

Maximum value of SAR (measured) = 0.307 mW/g

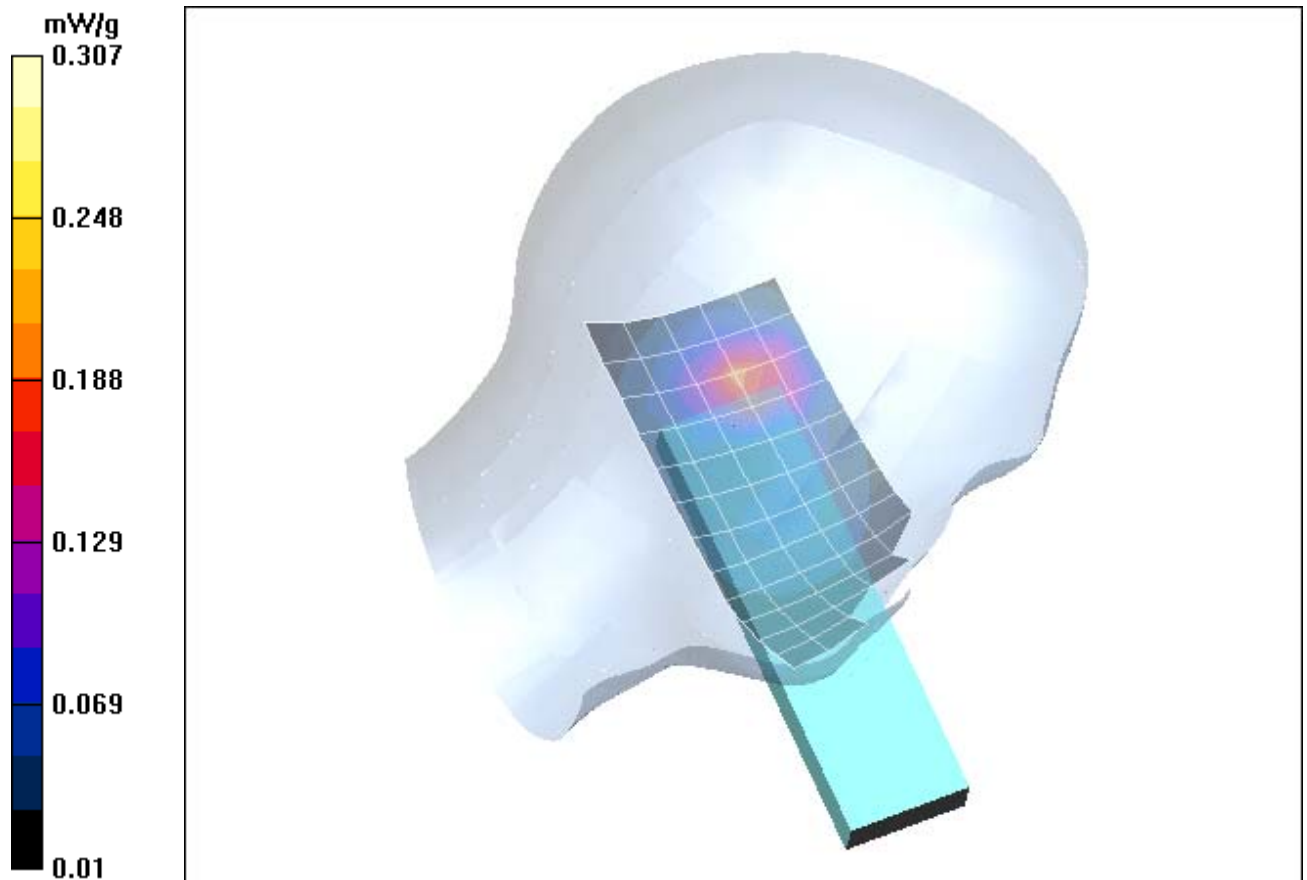


Fig. 6: SAR distribution for GSM 850, channel 190, tilted position, left side of head (August 02, 2005; Ambient Temp.: 21.7° C; Liquid Temperature: 21.4° C).

Test Laboratory: IMST GmbH, DASY Blue (I); **File Name:** [538barm_1_cam.da4](#)

DUT: Siemens; **Type:** AX76 ; **Serial:** 004400012074538

Program Name: Cheek Right

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:8.3

Medium parameters used: $f = 836.6$ MHz; $\sigma = 0.89$ mho/m; $\epsilon_r = 41.6$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6R - SN1669; ConvF(6.61, 6.61, 6.61); Calibrated: 13.01.2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 17.03.2005
- Phantom: SAM Sugar 1059; Type: Speag; Serial: 1059
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Cheek Right/Area Scan (6x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.271 mW/g

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

Reference Value = 15.0 V/m; Power Drift = -0.114 dB

Peak SAR (extrapolated) = 0.481 W/kg

SAR(1 g) = 0.265 mW/g; SAR(10 g) = 0.178 mW/g

Maximum value of SAR (measured) = 0.289 mW/g

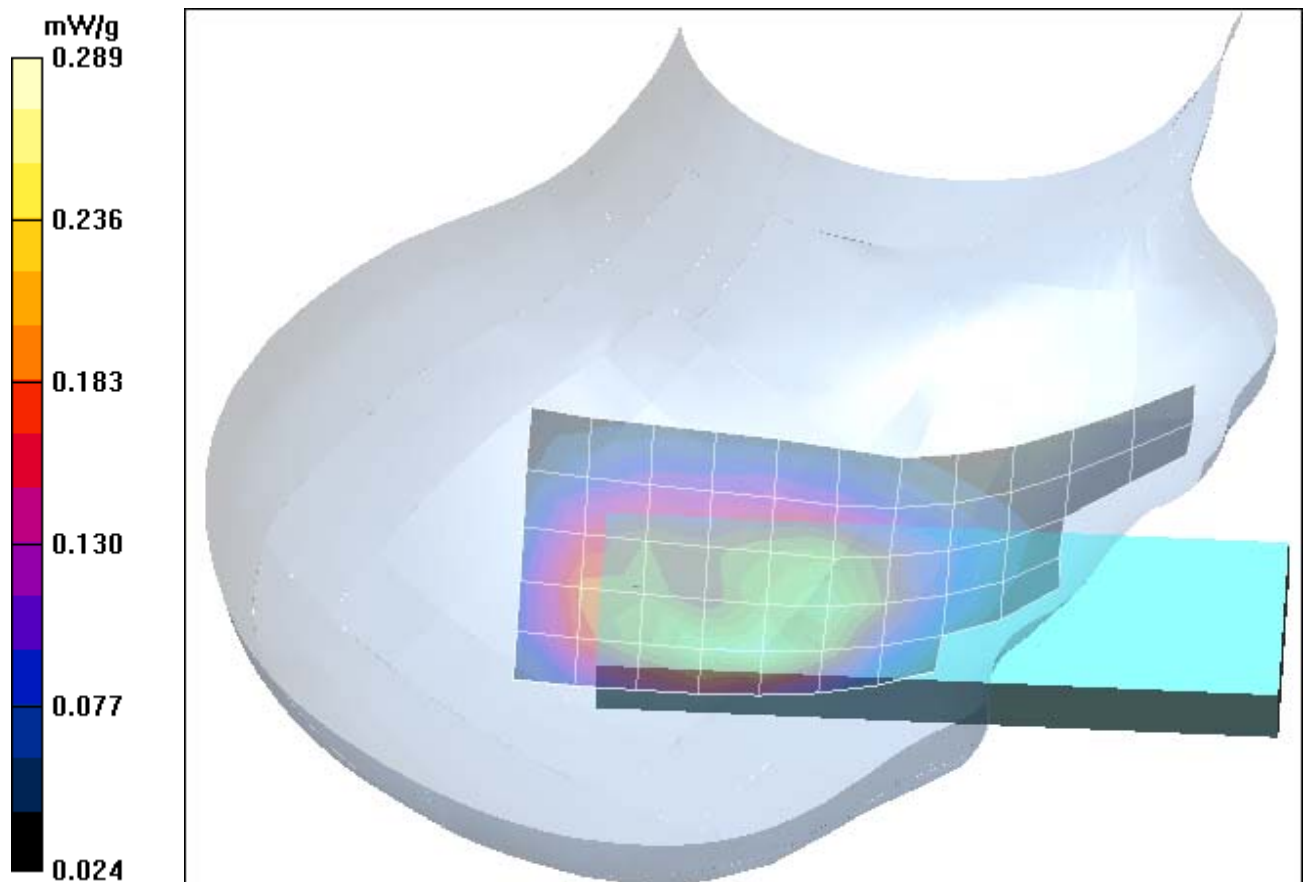


Fig. 7: SAR distribution for GSM 850, channel 190, cheek position, right side of head (August 02, 2005; Ambient Temp.: 21.7° C; Liquid Temperature : 21.0° C).

Test Laboratory: IMST GmbH, DASY Blue (I); **File Name:** [538barm_2_cam.da4](#)

DUT: Siemens; **Type:** AX76 ; **Serial:** 004400012074538

Program Name: Tilted Right

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:8.3

Medium parameters used: $f = 836.6$ MHz; $\sigma = 0.89$ mho/m; $\epsilon_r = 41.6$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6R - SN1669; ConvF(6.61, 6.61, 6.61); Calibrated: 13.01.2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 17.03.2005
- Phantom: SAM Sugar 1059; Type: Speag; Serial: 1059
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Tilted Right/Area Scan (6x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.247 mW/g

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

Reference Value = 11.4 V/m; Power Drift = 0.086 dB

Peak SAR (extrapolated) = 0.553 W/kg

SAR(1 g) = 0.228 mW/g; SAR(10 g) = 0.117 mW/g

Maximum value of SAR (measured) = 0.246 mW/g

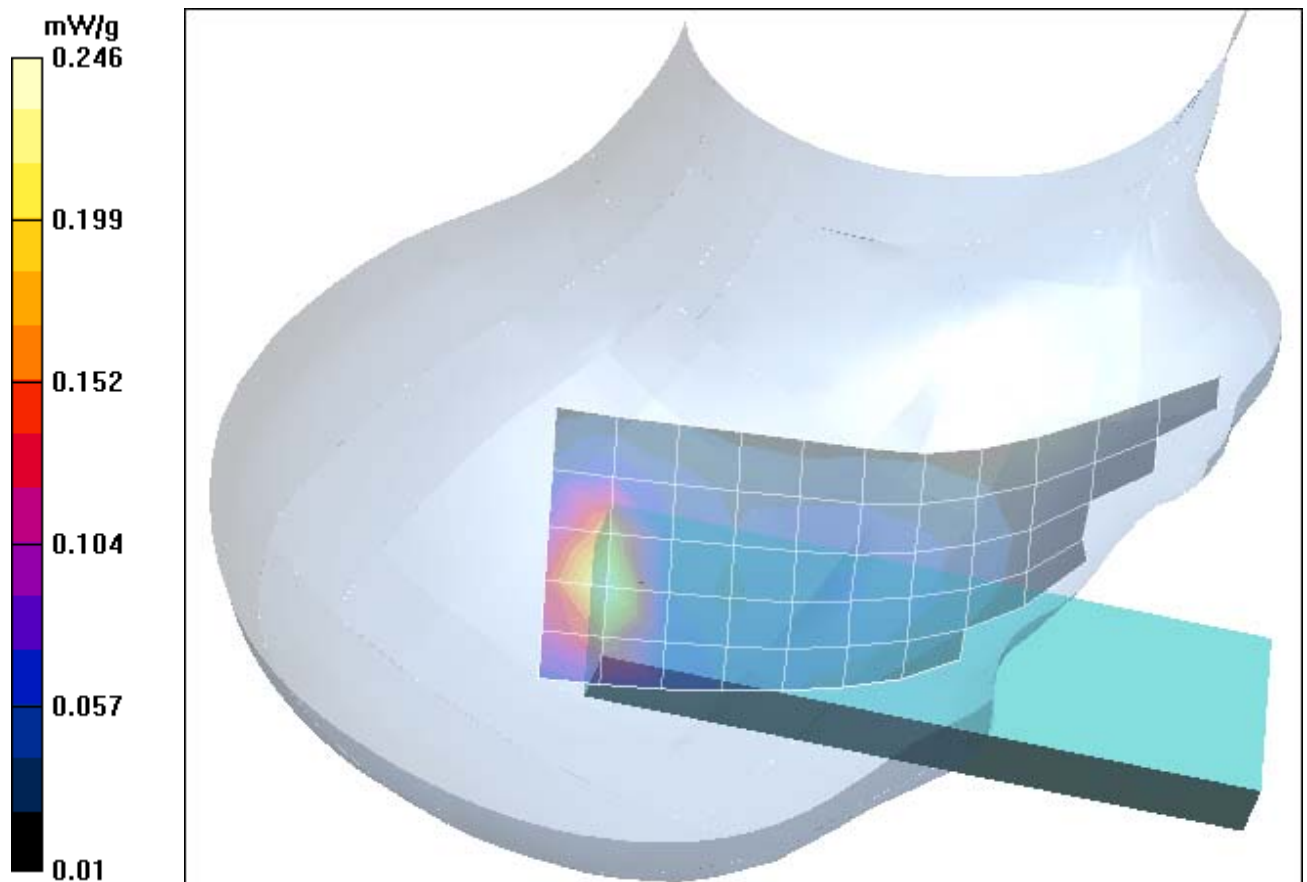


Fig. 8: SAR distribution for GSM 850, channel 190, tilted position, right side of head (August 02, 2005; Ambient Temp.: 21.8° C; Liquid Temperature : 21.0° C).

3 SAR Distribution Plots, PCS 1900 Head

Test Laboratory: IMST GmbH, DASY Blue (I); File Name: [538bplm_1.da4](#)

DUT: Siemens; Type: AX76 ; Serial: 004400012074538

Program Name: Cheek Left

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.45$ mho/m; $\epsilon_r = 40.1$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6R - SN1669; ConvF(5.11, 5.11, 5.11); Calibrated: 13.01.2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 17.03.2005
- 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) = 0.310 mW/g

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

Reference Value = 14.9 V/m; Power Drift = -0.030 dB

Peak SAR (extrapolated) = 0.444 W/kg

SAR(1 g) = 0.297 mW/g; SAR(10 g) = 0.182 mW/g

Maximum value of SAR (measured) = 0.328 mW/g

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

Reference Value = 14.9 V/m; Power Drift = -0.030 dB

Peak SAR (extrapolated) = 0.221 W/kg

SAR(1 g) = 0.167 mW/g; SAR(10 g) = 0.104 mW/g

Maximum value of SAR (measured) = 0.183 mW/g

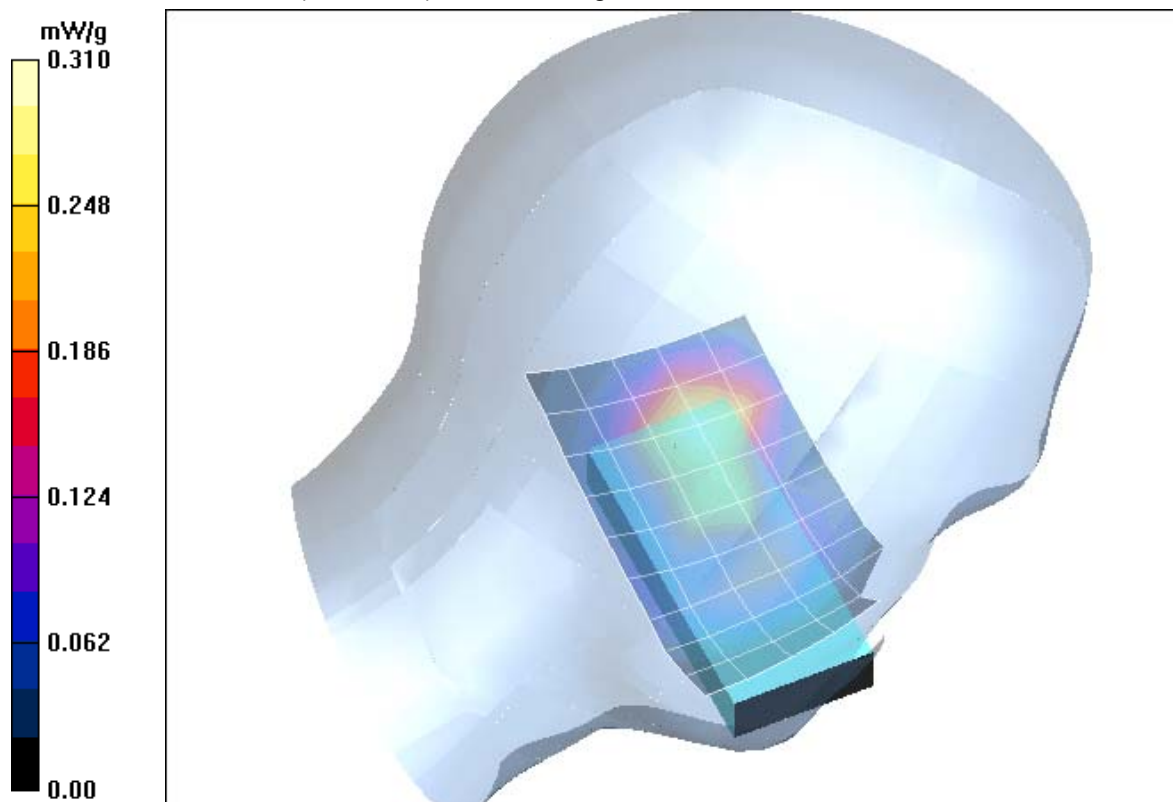


Fig. 9: SAR distribution for PCS 1900, channel 661, cheek position, left side of head (August 01, 2005; Ambient Temp.: 22.0° C; Liquid Temperature : 21.5° C).

Test Laboratory: IMST GmbH, DASY Blue (I); **File Name:** [538bplm_2.da4](#)

DUT: Siemens; **Type:** AX76 ; **Serial:** 004400012074538

Program Name: Tilted Left

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.45$ mho/m; $\epsilon_r = 40.1$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6R - SN1669; ConvF(5.11, 5.11, 5.11); Calibrated: 13.01.2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 17.03.2005
- 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) = 0.324 mW/g

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

Reference Value = 14.8 V/m; Power Drift = 0.071 dB

Peak SAR (extrapolated) = 0.520 W/kg

SAR(1 g) = 0.343 mW/g; SAR(10 g) = 0.196 mW/g

Maximum value of SAR (measured) = 0.376 mW/g

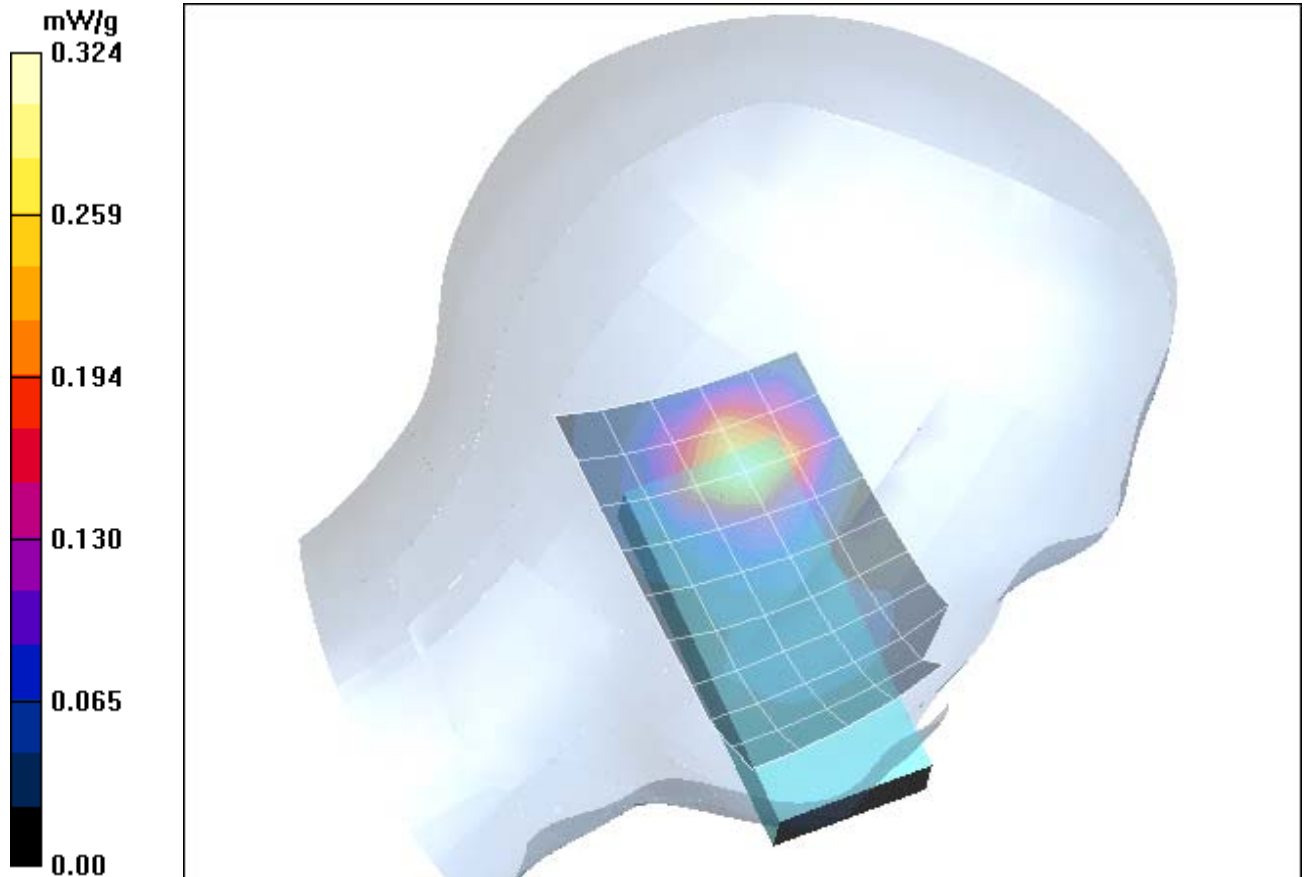


Fig. 10: SAR distribution for PCS 1900, channel 661, tilted position, left side of head (August 01, 2005; Ambient Temp.: 22.0° C; Liquid Temperature : 21.6° C).

Test Laboratory: IMST GmbH, DASY Blue (I); **File Name:** [538bprm_1.da4](#)

DUT: Siemens; **Type:** AX76 ; **Serial:** 004400012074538

Program Name: Cheek Right

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.45$ mho/m; $\epsilon_r = 40.1$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6R - SN1669; ConvF(5.11, 5.11, 5.11); Calibrated: 13.01.2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 17.03.2005
- 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) = 0.229 mW/g

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

Reference Value = 12.9 V/m; Power Drift = 0.022 dB

Peak SAR (extrapolated) = 0.385 W/kg

SAR(1 g) = 0.234 mW/g; SAR(10 g) = 0.142 mW/g

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

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

Reference Value = 12.9 V/m; Power Drift = 0.022 dB

Peak SAR (extrapolated) = 0.237 W/kg

SAR(1 g) = 0.186 mW/g; SAR(10 g) = 0.117 mW/g

Maximum value of SAR (measured) = 0.205 mW/g

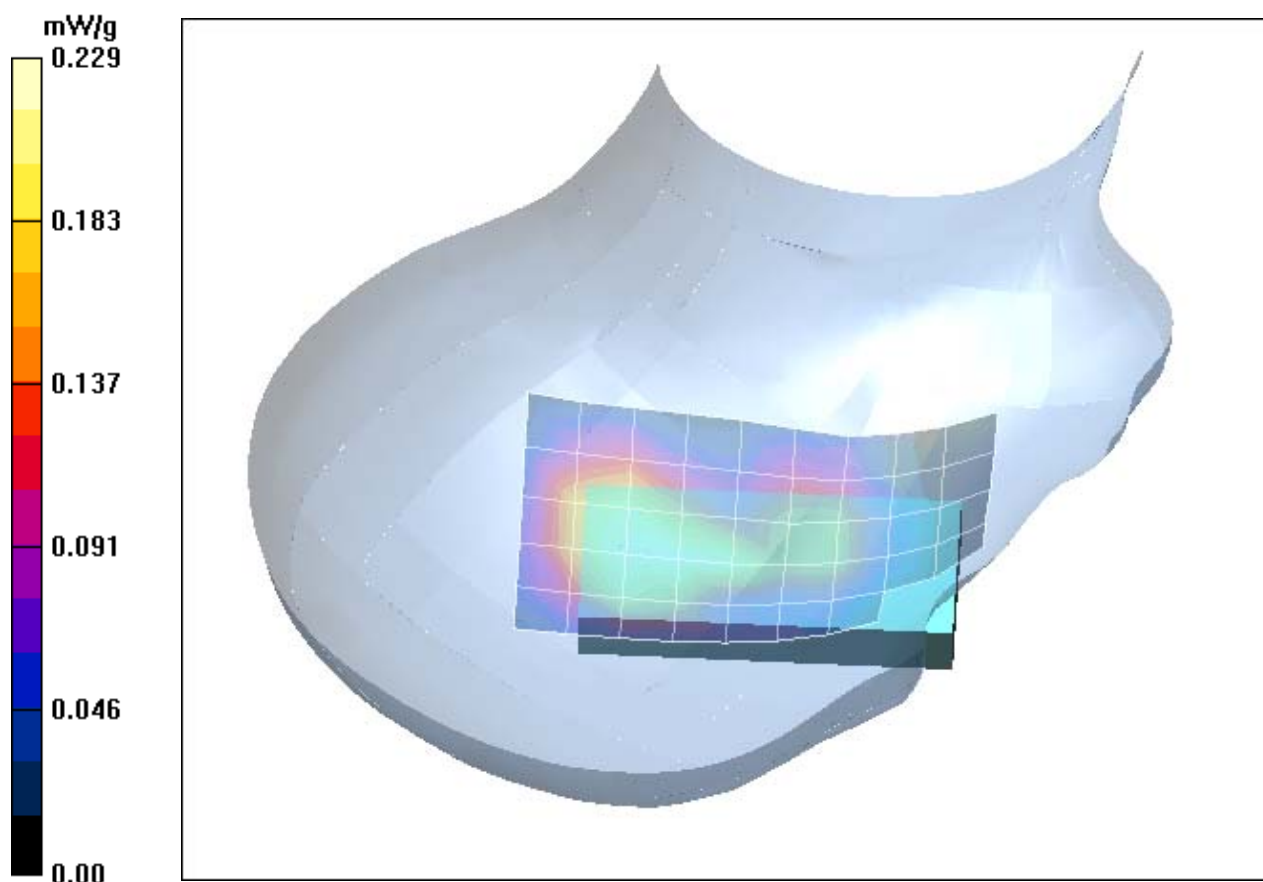


Fig. 11: SAR distribution for PCS 1900, channel 661, cheek position, right side of head (August 01, 2005; Ambient Temp.: 21.9° C; Liquid Temperature : 21.5° C).

Test Laboratory: IMST GmbH, DASY Blue (I); **File Name:** [538bprm_2.da4](#)

DUT: Siemens; **Type:** AX76 ; **Serial:** 004400012074538

Program Name: Tilted Right

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.45$ mho/m; $\epsilon_r = 40.1$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6R - SN1669; ConvF(5.11, 5.11, 5.11); Calibrated: 13.01.2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 17.03.2005
- 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) = 0.294 mW/g

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

Reference Value = 14.5 V/m; Power Drift = 0.128 dB

Peak SAR (extrapolated) = 0.456 W/kg

SAR(1 g) = 0.308 mW/g; SAR(10 g) = 0.176 mW/g

Maximum value of SAR (measured) = 0.347 mW/g

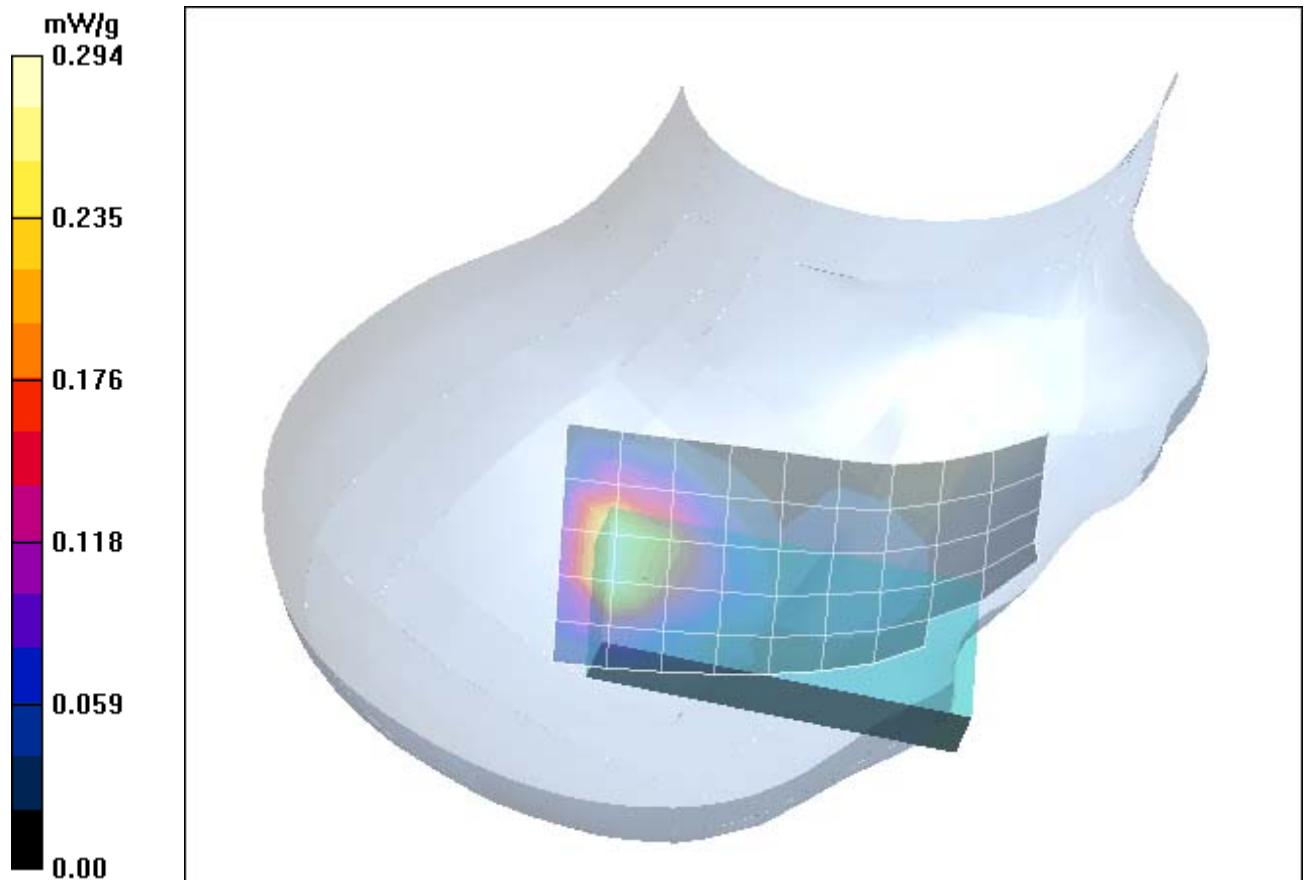


Fig. 12: SAR distribution for PCS 1900, channel 661, tilted position, right side of head (August 01, 2005; Ambient Temp.: 22.0 °C; Liquid Temperature : 21.5° C)

4 SAR Distribution Plots, PCS 1900 Head with camera

Test Laboratory: IMST GmbH, DASY Blue (I); File Name: [538bplm_1_flash.da4](#)

DUT: Siemens; Type: AX76 ; Serial: 004400012074538

Program Name: Cheek Left

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.45$ mho/m; $\epsilon_r = 40.1$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6R - SN1669; ConvF(5.11, 5.11, 5.11); Calibrated: 13.01.2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 17.03.2005
- 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 (6x14x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.316 mW/g

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

Reference Value = 14.8 V/m; Power Drift = -0.019 dB

Peak SAR (extrapolated) = 0.477 W/kg

SAR(1 g) = 0.323 mW/g; SAR(10 g) = 0.179 mW/g

Maximum value of SAR (measured) = 0.352 mW/g

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

Reference Value = 14.8 V/m; Power Drift = -0.019 dB

Peak SAR (extrapolated) = 0.468 W/kg

SAR(1 g) = 0.305 mW/g; SAR(10 g) = 0.183 mW/g

Maximum value of SAR (measured) = 0.332 mW/g

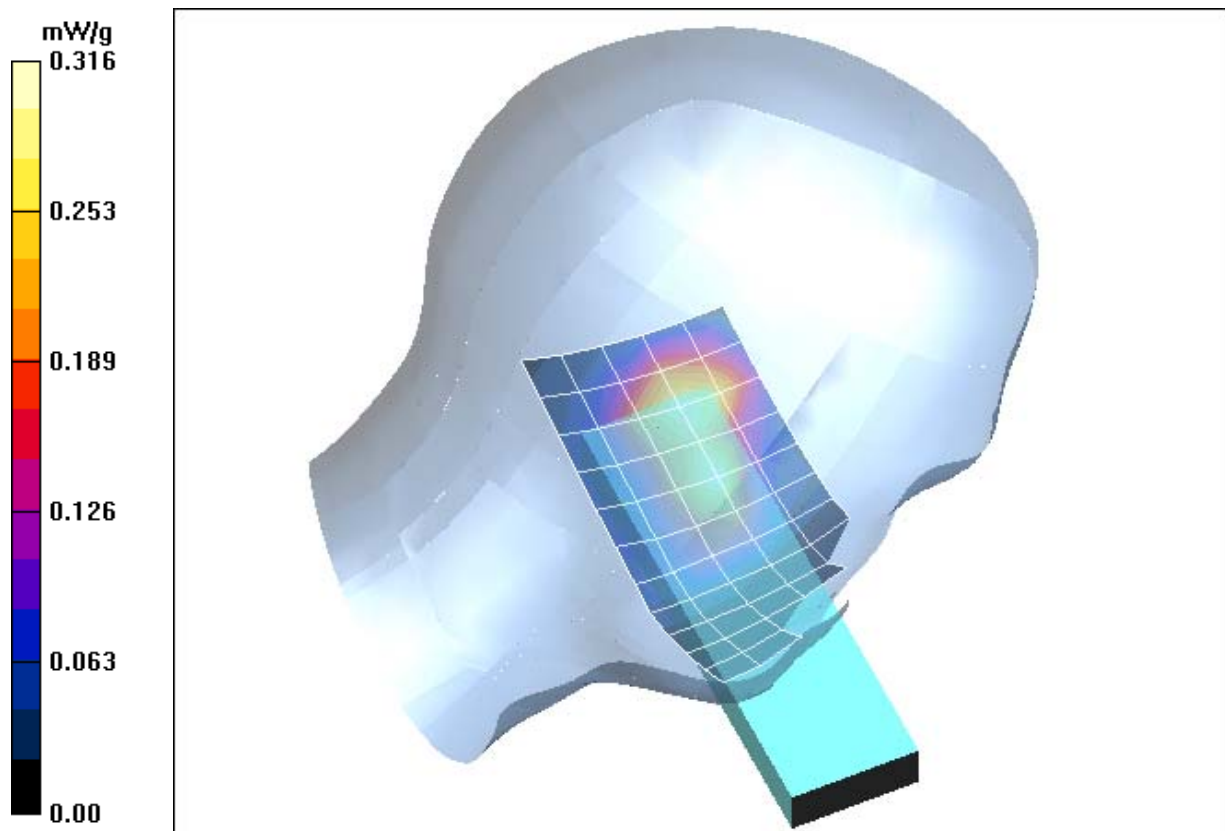


Fig. 13: SAR distribution for PCS 1900, channel 661, cheek position, left side of head (August 01, 2005; Ambient Temp.: 22.0° C; Liquid Temperature : 21.6° C).

Test Laboratory: IMST GmbH, DASY Blue (I); File Name: [538bplm_2_flash.da4](#)

DUT: Siemens; Type: AX76 ; Serial: 004400012074538

Program Name: Tilted Left

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.45$ mho/m; $\epsilon_r = 40.1$; $\rho = 1000$ kg/m³

Phantom section: Left Section

DASY4 Configuration:

- Probe: ET3DV6R - SN1669; ConvF(5.11, 5.11, 5.11); Calibrated: 13.01.2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 17.03.2005
- 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 (6x14x1): Measurement grid: dx=15mm, dy=15mm

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

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

Reference Value = 14.7 V/m; Power Drift = 0.089 dB

Peak SAR (extrapolated) = 0.520 W/kg

SAR(1 g) = 0.345 mW/g; SAR(10 g) = 0.192 mW/g

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

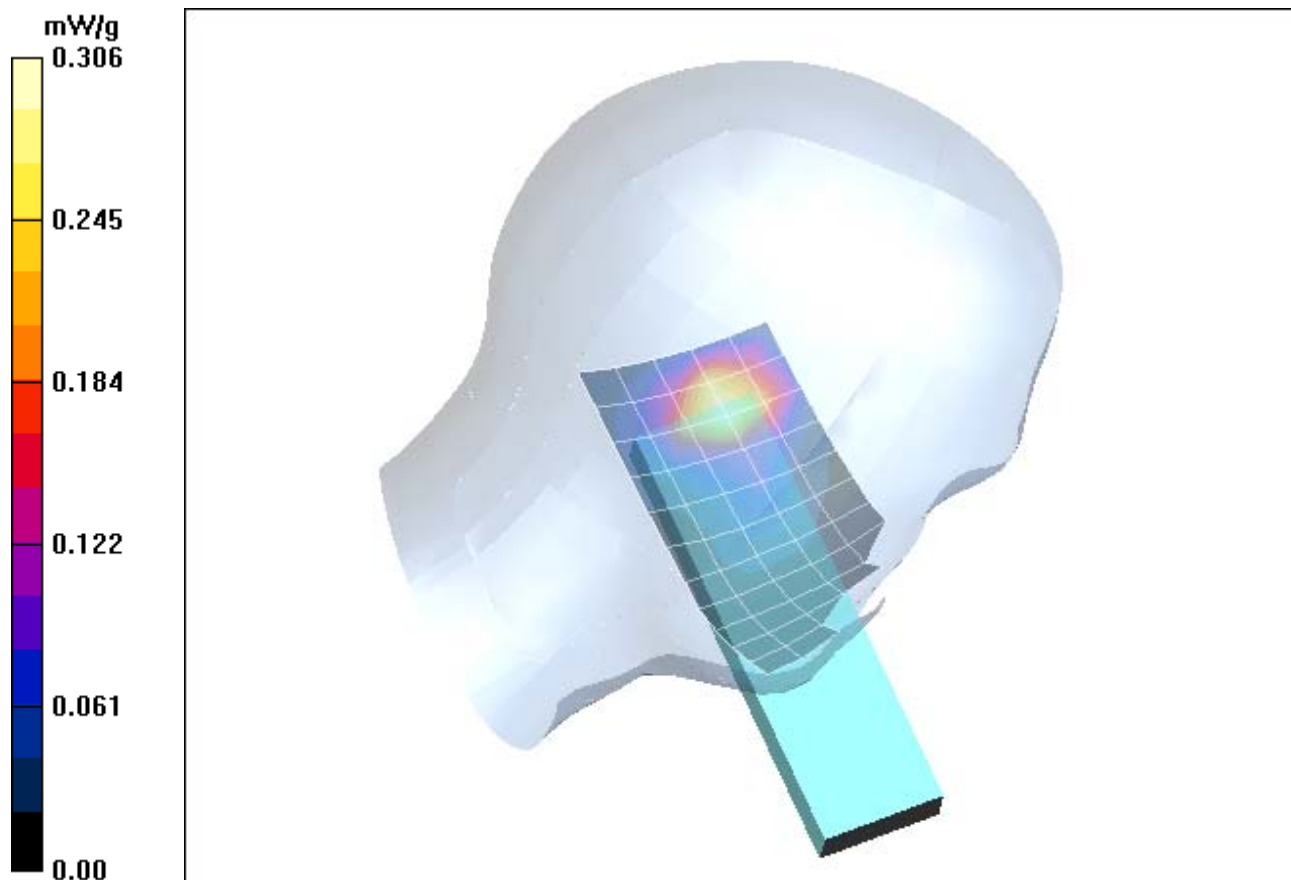


Fig. 14: SAR distribution for PCS 1900, channel 661, tilted position, left side of head (August 01, 2005; Ambient Temp.: 22.0° C; Liquid Temperature : 21.5° C).

Test Laboratory: IMST GmbH, DASY Blue (I); **File Name:** [538bprm_1_flash.da4](#)

DUT: Siemens; **Type:** AX76 ; **Serial:** 004400012074538

Program Name: Cheek Right

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.45$ mho/m; $\epsilon_r = 40.1$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6R - SN1669; ConvF(5.11, 5.11, 5.11); Calibrated: 13.01.2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 17.03.2005
- 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 (6x14x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.330 mW/g

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

Reference Value = 12.8 V/m; Power Drift = 0.128 dB; Peak SAR (extrapolated) = 0.537 W/kg

SAR(1 g) = 0.330 mW/g; SAR(10 g) = 0.175 mW/g

Maximum value of SAR (measured) = 0.379 mW/g

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

Reference Value = 12.8 V/m; Power Drift = 0.128 dB; Peak SAR (extrapolated) = 0.501 W/kg

SAR(1 g) = 0.233 mW/g; SAR(10 g) = 0.138 mW/g

Maximum value of SAR (measured) = 0.337 mW/g

Cheek Right/Zoom Scan (7x7x7)/Cube 2: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 12.8 V/m; Power Drift = 0.128 dB; Peak SAR (extrapolated) = 0.380 W/kg

SAR(1 g) = 0.235 mW/g; SAR(10 g) = 0.144 mW/g

Maximum value of SAR (measured) = 0.258 mW/g

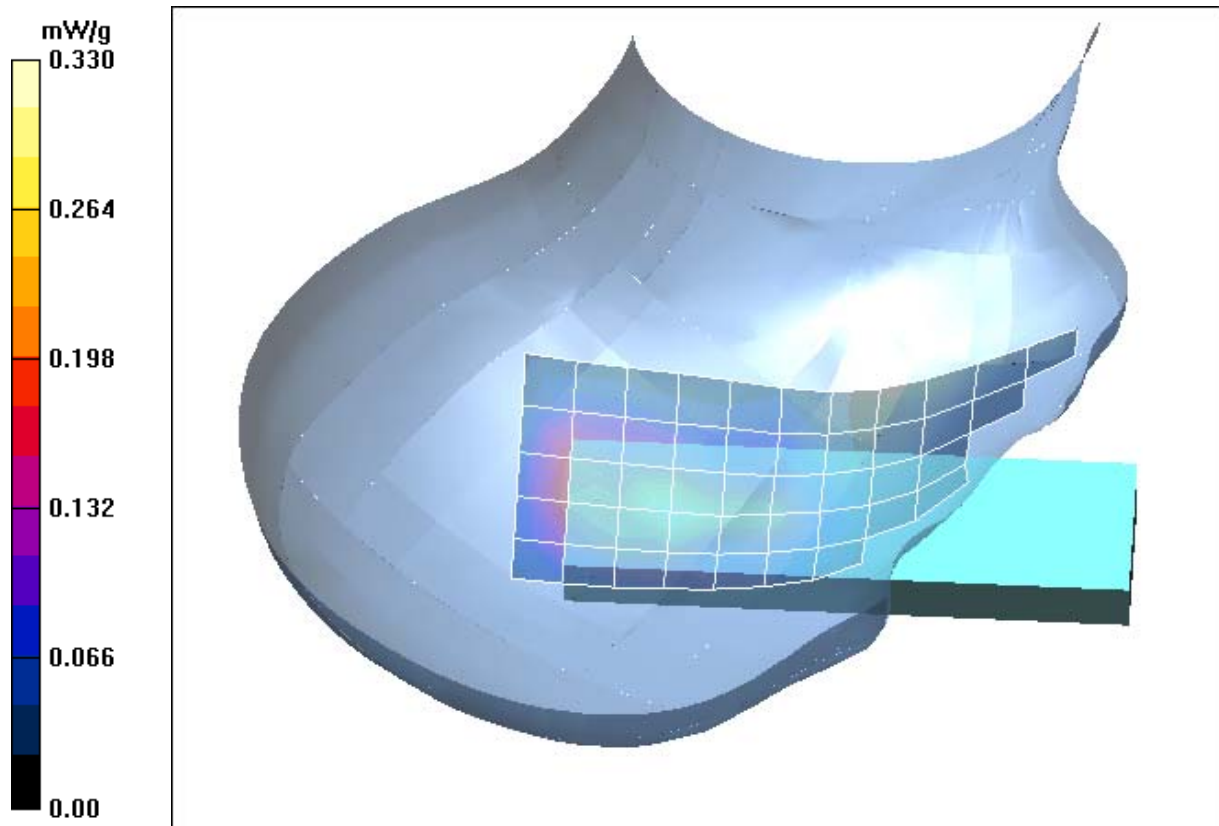


Fig. 15: SAR distribution for PCS 1900, channel 661, cheek position, right side of head (August 01, 2005; Ambient Temp.: 22.0° C; Liquid Temperature : 21.6° C).

Test Laboratory: IMST GmbH, DASY Blue (I); **File Name:** [538bprm_2_flash.da4](#)

DUT: Siemens; **Type:** AX76 ; **Serial:** 004400012074538

Program Name: Tilted Right

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.45$ mho/m; $\epsilon_r = 40.1$; $\rho = 1000$ kg/m³

Phantom section: Right Section

DASY4 Configuration:

- Probe: ET3DV6R - SN1669; ConvF(5.11, 5.11, 5.11); Calibrated: 13.01.2005
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn335; Calibrated: 17.03.2005
- 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 (6x14x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.272 mW/g

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

Reference Value = 14.5 V/m; Power Drift = 0.160 dB

Peak SAR (extrapolated) = 0.439 W/kg

SAR(1 g) = 0.299 mW/g; SAR(10 g) = 0.169 mW/g

Maximum value of SAR (measured) = 0.333 mW/g

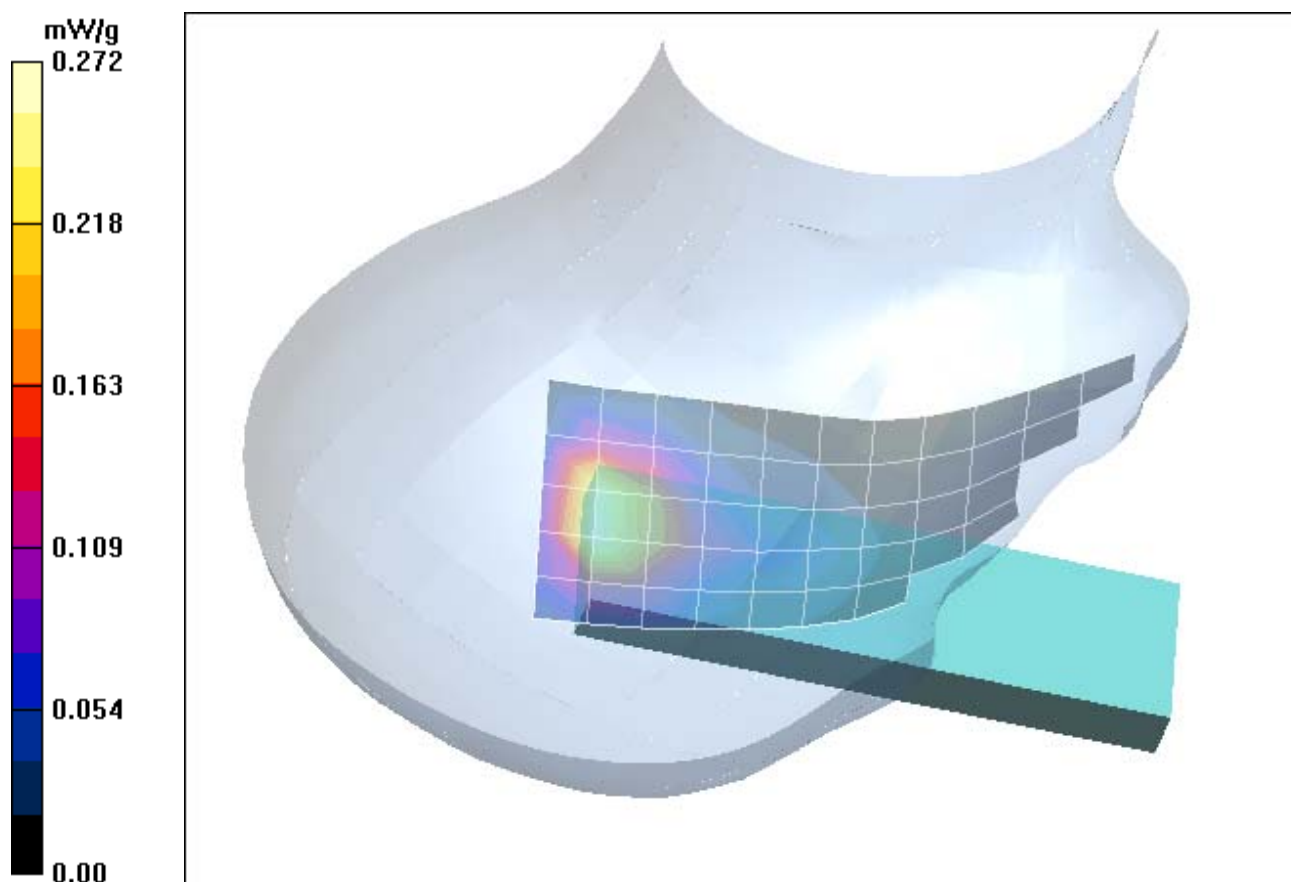


Fig. 16: SAR distribution for PCS 1900, channel 661, tilted position, right side of head (August 01, 2005; Ambient Temp.: 22.0 °C; Liquid Temperature : 21.5° C)

5 SAR Distribution Plots, GSM 850 Body in GSM mode

Test Laboratory: IMST GmbH, DASY Yellow (II); File Name: [538yahm_4.da4](#)

DUT: Siemens; Type: AX76 ; Serial: 004400012074538

Program Name: Body Worn

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:8.3

Medium parameters used: $f = 836.6 \text{ MHz}$; $\sigma = 1 \text{ mho/m}$; $\epsilon_r = 55.2$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(9.78, 9.78, 9.78); Calibrated: 27.08.2004

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

- Electronics: DAE4 Sn631; Calibrated: 07.07.2005

- Phantom: SAM Sugar 1341; Type: QD 000 P40 CB; Serial: TP-1341

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

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

Maximum value of SAR (measured) = 0.622 mW/g

Body Worn/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$; Reference Value = 21.5 V/m; Power Drift = 0.105 dB

Peak SAR (extrapolated) = 0.834 W/kg

SAR(1 g) = 0.582 mW/g; SAR(10 g) = 0.398 mW/g

Maximum value of SAR (measured) = 0.621 mW/g

Body Worn/Zoom Scan (7x7x7)/Cube 1: Measurement grid: dx=5mm, dy=5mm, dz=5mm; Reference Value = 21.5 V/m; Power Drift = 0.105 dB

Peak SAR (extrapolated) = 0.805 W/kg

SAR(1 g) = 0.457 mW/g; SAR(10 g) = 0.261 mW/g

Maximum value of SAR (measured) = 0.563 mW/g

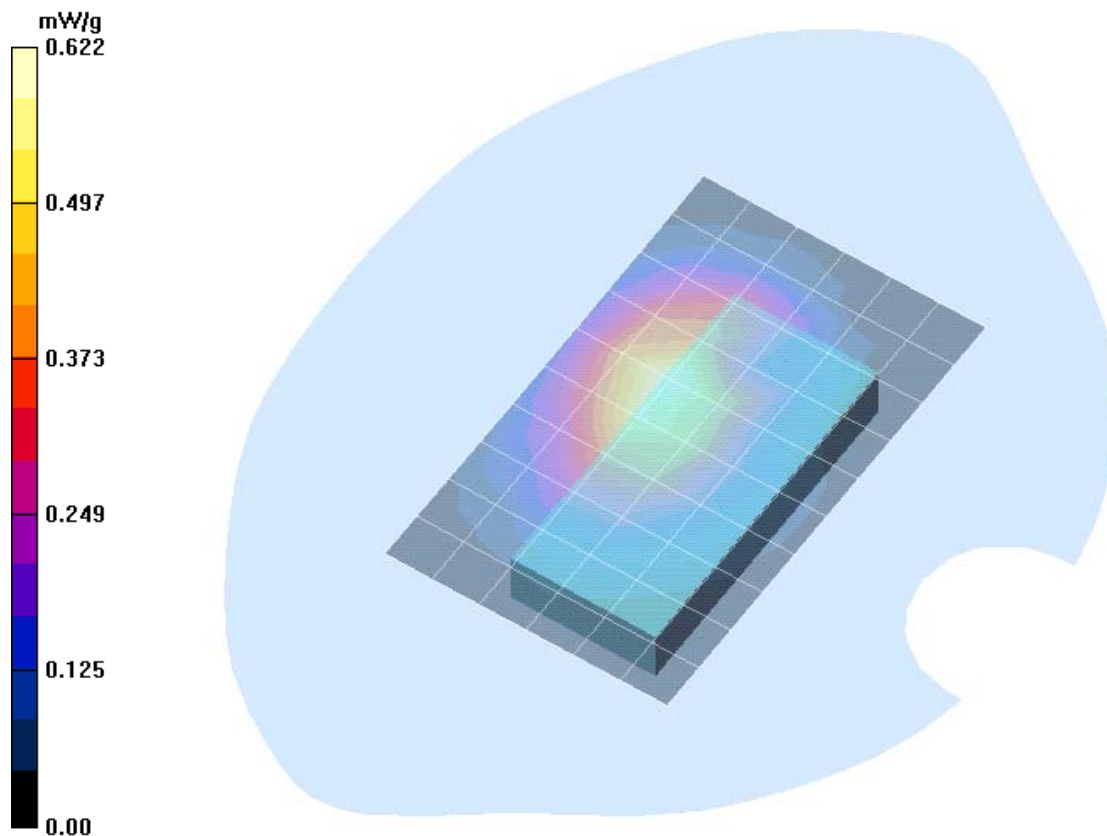


Fig. 17: SAR distribution for GSM 850, channel 190, body worn configuration, antenna towards the phantom, with 10 mm distance (August 04, 2005; Ambient Temperature: 21.9° C; Liquid Temperature: 21.0° C).

6 SAR Distribution Plots, GSM 850 Body in GSM mode with headset

Test Laboratory: IMST GmbH, DASY Yellow (II); File Name: [538yahm_5.da4](#)

DUT: Siemens; Type: AX76 ; Serial: 004400012074538

Program Name: Body Worn

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:8.3

Medium parameters used: $f = 836.6$ MHz; $\sigma = 1$ mho/m; $\epsilon_r = 55.2$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(9.78, 9.78, 9.78); Calibrated: 27.08.2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn631; Calibrated: 07.07.2005
- Phantom: SAM Sugar 1341; Type: QD 000 P40 CB; Serial: TP-1341
- 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) = 0.537 mW/g

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

Reference Value = 19.0 V/m; Power Drift = 0.045 dB

Peak SAR (extrapolated) = 0.737 W/kg

SAR(1 g) = 0.509 mW/g; SAR(10 g) = 0.344 mW/g

Maximum value of SAR (measured) = 0.547 mW/g

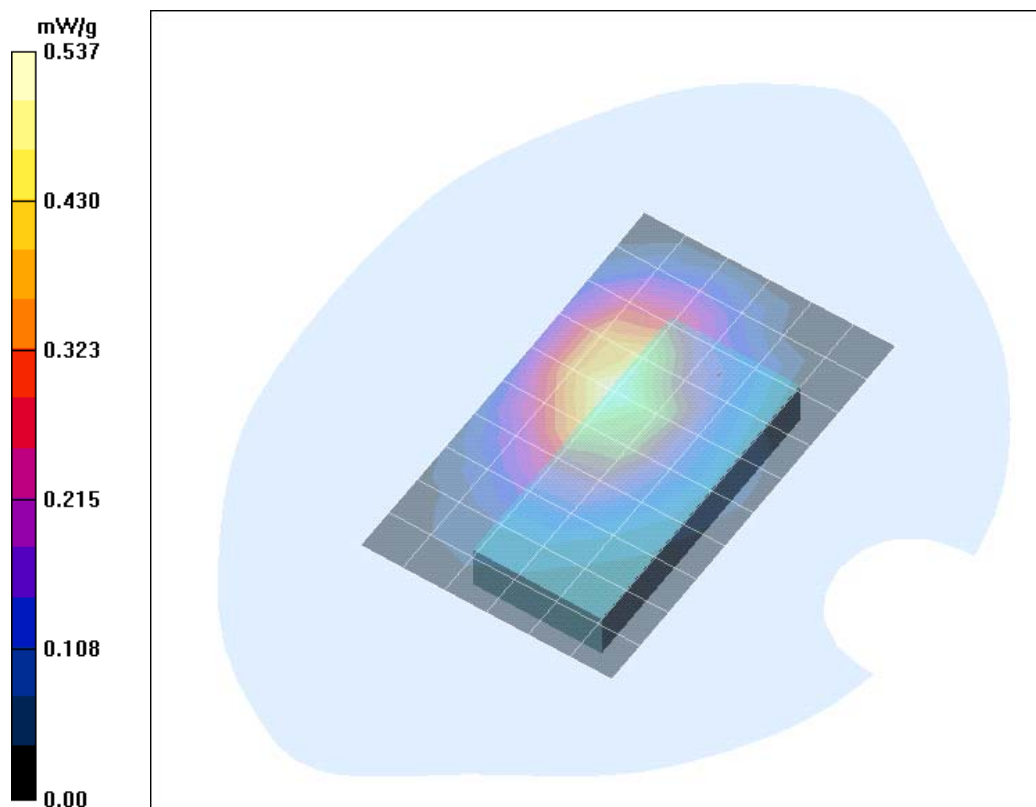


Fig. 18: SAR distribution for GSM 850, channel 190, body worn configuration, antenna towards the phantom, with headset, with 10 mm distance (August 04, 2005; Ambient Temperature: 21.9° C; Liquid Temperature: 21.0° C).

7 SAR Distribution Plots, GSM 850 Body with data cable in GPRS mode (Class 8)

Test Laboratory: IMST GmbH, DASY Yellow (II); File Name: [538yahm_6.da4](#)

DUT: Siemens; Type: AX76 ; Serial: 004400012074538

Program Name: Body Worn

Communication System: GSM 850; Frequency: 836.6 MHz; Duty Cycle: 1:8.3

Medium parameters used: $f = 836.6$ MHz; $\sigma = 1$ mho/m; $\epsilon_r = 55.2$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(9.78, 9.78, 9.78); Calibrated: 27.08.2004

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

- Electronics: DAE4 Sn631; Calibrated: 07.07.2005
- Phantom: SAM Sugar 1341; Type: QD 000 P40 CB; Serial: TP-1341
- 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) = 0.488 mW/g

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

Reference Value = 18.1 V/m; Power Drift = 0.035 dB

Peak SAR (extrapolated) = 0.661 W/kg

SAR(1 g) = 0.457 mW/g; SAR(10 g) = 0.309 mW/g

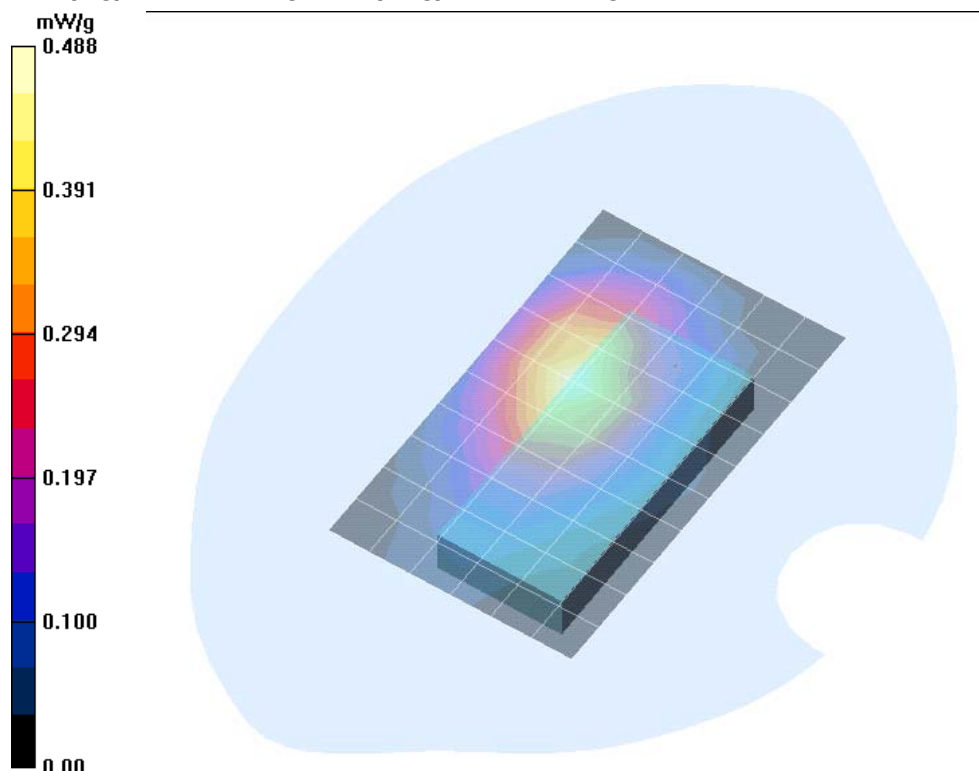


Fig. 19: SAR distribution for GPRS 850, channel 190, body worn configuration, antenna towards the phantom, with data cable, with 10 mm distance (August 04, 2005; Ambient Temperature: 22.0° C; Liquid Temperature: 21.1° C).

8 SAR Distribution Plots, PCS 1900 Body in GSM mode

Test Laboratory: IMST GmbH, DASY Yellow (II); File Name: [538yphm_4.da4](#)

DUT: Siemens; Type: AX76 ; Serial: 004400012074538

Program Name: Body Worn

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.57$ mho/m; $\epsilon_r = 51.9$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(7.54, 7.54, 7.54); Calibrated: 27.08.2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn631; Calibrated: 07.07.2005

- 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) = 0.572 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 = 0.163 dB

Peak SAR (extrapolated) = 0.718 W/kg

SAR(1 g) = 0.550 mW/g; SAR(10 g) = 0.355 mW/g

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

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

Reference Value = 11.9 V/m; Power Drift = 0.163 dB

Peak SAR (extrapolated) = 1.28 W/kg

SAR(1 g) = 0.476 mW/g; SAR(10 g) = 0.253 mW/g

Maximum value of SAR (measured) = 0.554 mW/g

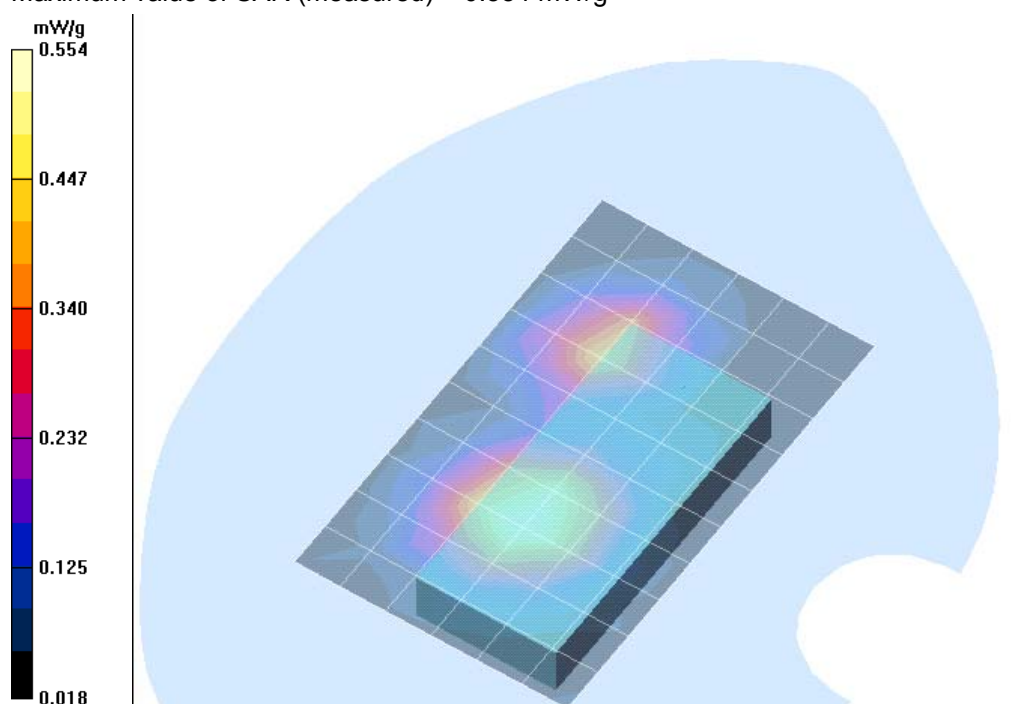


Fig. 20: SAR distribution for PCS 1900, channel 661, body worn configuration, antenna towards the phantom, with 10 mm distance (August 03, 2005; Ambient Temperature: 21.7° C; Liquid Temperature: 20.9° C).

9 SAR Distribution Plots, PCS 190 Body in GSM mode with headset

Test Laboratory: IMST GmbH, DASY Yellow (II); File Name: [538yphm_5.da4](#)

DUT: Siemens; Type: AX76 ; Serial: 004400012074538

Program Name: Body Worn

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.57$ mho/m; $\epsilon_r = 51.9$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(7.54, 7.54, 7.54); Calibrated: 27.08.2004

- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn631; Calibrated: 07.07.2005
- 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) = 0.524 mW/g

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

Reference Value = 12.1 V/m; Power Drift = 0.198 dB

Peak SAR (extrapolated) = 0.669 W/kg

SAR(1 g) = 0.462 mW/g; SAR(10 g) = 0.298 mW/g

Maximum value of SAR (measured) = 0.502 mW/g

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

Reference Value = 12.1 V/m; Power Drift = 0.198 dB

Peak SAR (extrapolated) = 0.904 W/kg

SAR(1 g) = 0.548 mW/g; SAR(10 g) = 0.297 mW/g

Maximum value of SAR (measured) = 0.629 mW/g

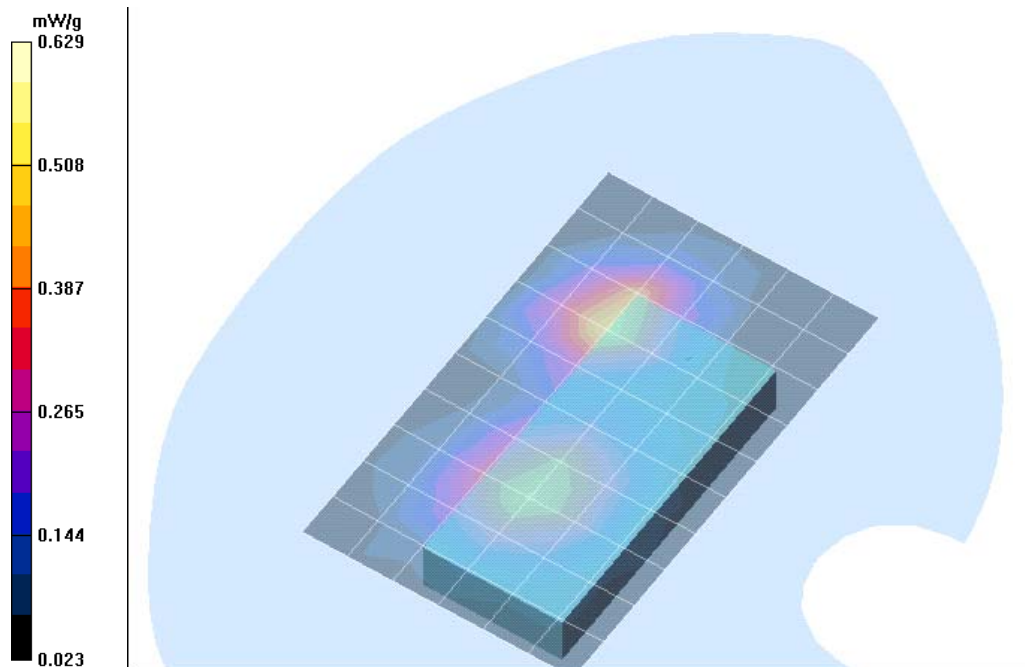


Fig. 21: SAR distribution for PCS 1900, channel 661, body worn configuration, antenna towards the phantom, with headset, with 10 mm distance (August 03, 2005; Ambient Temperature: 21.7° C; Liquid Temperature: 21.0° C).

10 SAR Distribution Plots, PCS 1900 Body with data cable in GPRS mode (Class 8)

Test Laboratory: IMST GmbH, DASY Yellow (II); File Name: [538yphm_6.da4](#)

DUT: Siemens; Type: AX76 ; Serial: 004400012074538

Program Name: Body Worn

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

Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.57 \text{ mho/m}$; $\epsilon_r = 51.9$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY4 Configuration:

- Probe: EX3DV4 - SN3536; ConvF(7.54, 7.54, 7.54); Calibrated: 27.08.2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn631; Calibrated: 07.07.2005
- 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) = 0.624 mW/g

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

Reference Value = 14.1 V/m; Power Drift = 0.118 dB

Peak SAR (extrapolated) = 1.06 W/kg

SAR(1 g) = 0.623 mW/g; SAR(10 g) = 0.340 mW/g

Maximum value of SAR (measured) = 0.715 mW/g

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

Reference Value = 14.1 V/m; Power Drift = 0.118 dB

Peak SAR (extrapolated) = 0.506 W/kg

SAR(1 g) = 0.374 mW/g; SAR(10 g) = 0.248 mW/g

Maximum value of SAR (measured) = 0.404 mW/g

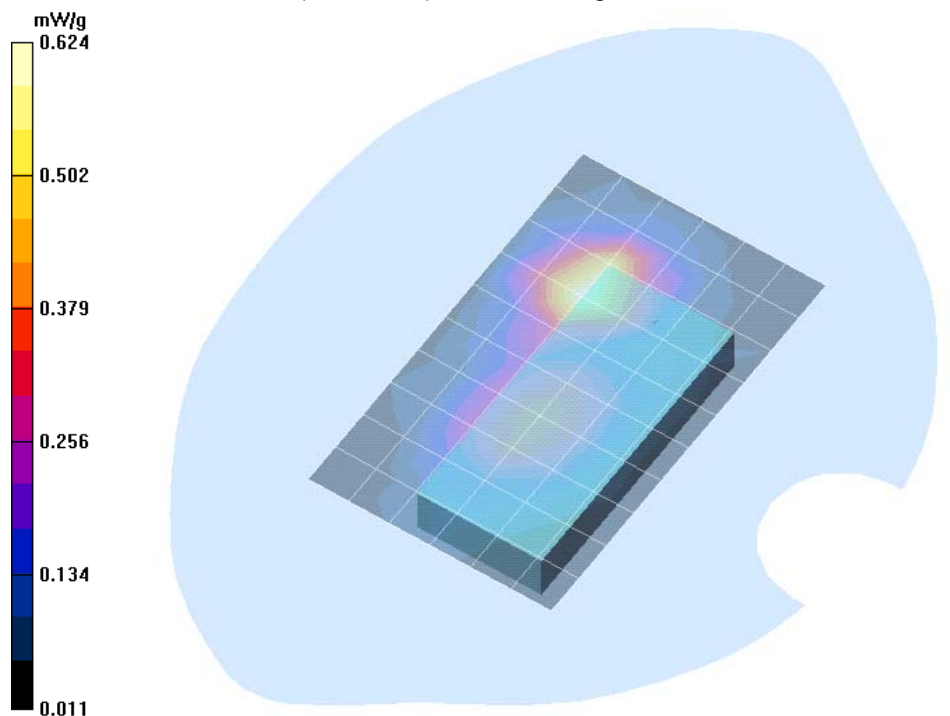


Fig. 22: SAR distribution for GPRS 1900, channel 661, body worn configuration, antenna towards the phantom, with data cable, with 10 mm distance (August 03, 2005; Ambient Temperature: 21.7° C; Liquid Temperature: 21.0° C).

11 SAR z-axis scans (Validation)

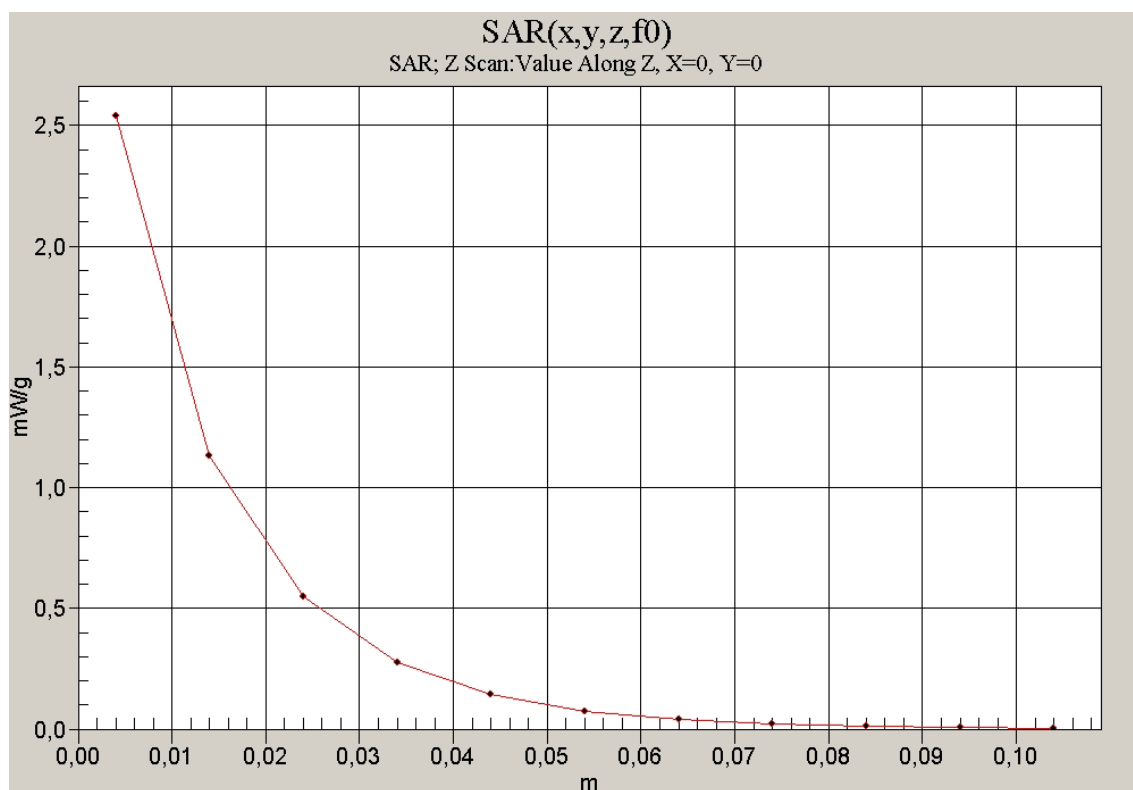


Fig. 23: SAR versus liquid depth, 835 MHz, head (August 02, 2005; Ambient Temperature: 22.0° C; Liquid Temperature : 21.5° C).

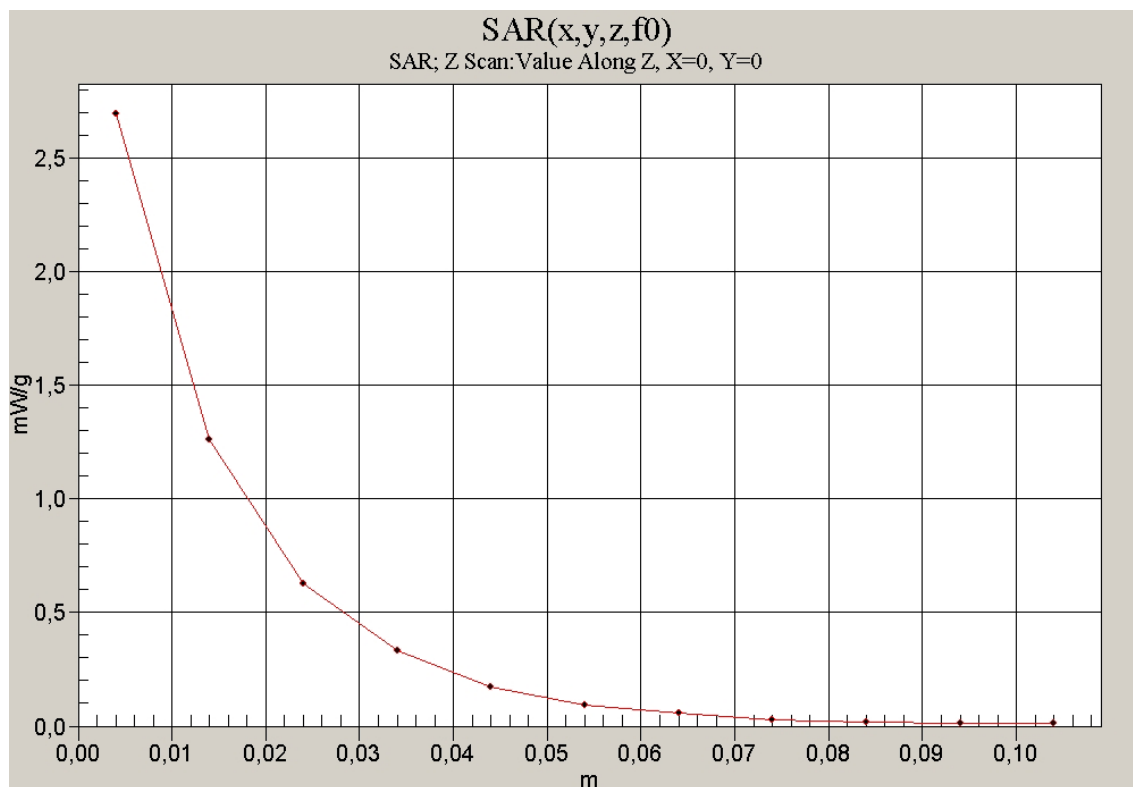


Fig. 24: SAR versus liquid depth, 835 MHz, body (August 04, 2005; Ambient Temperature: 22.0° C; Liquid Temperature : 21.0° C).

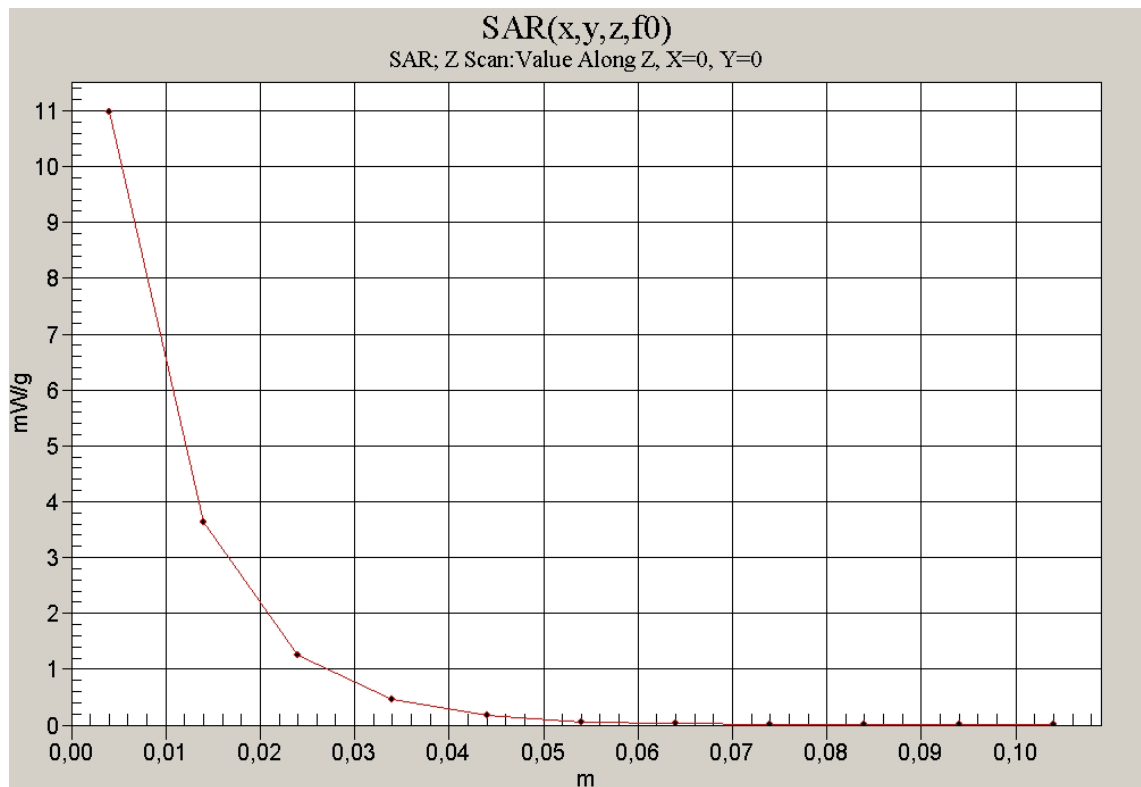


Fig. 25: SAR versus liquid depth, 1900 MHz, head (August 01, 2005; Ambient Temperature: 22.0° C; Liquid Temperature : 21.5° C).

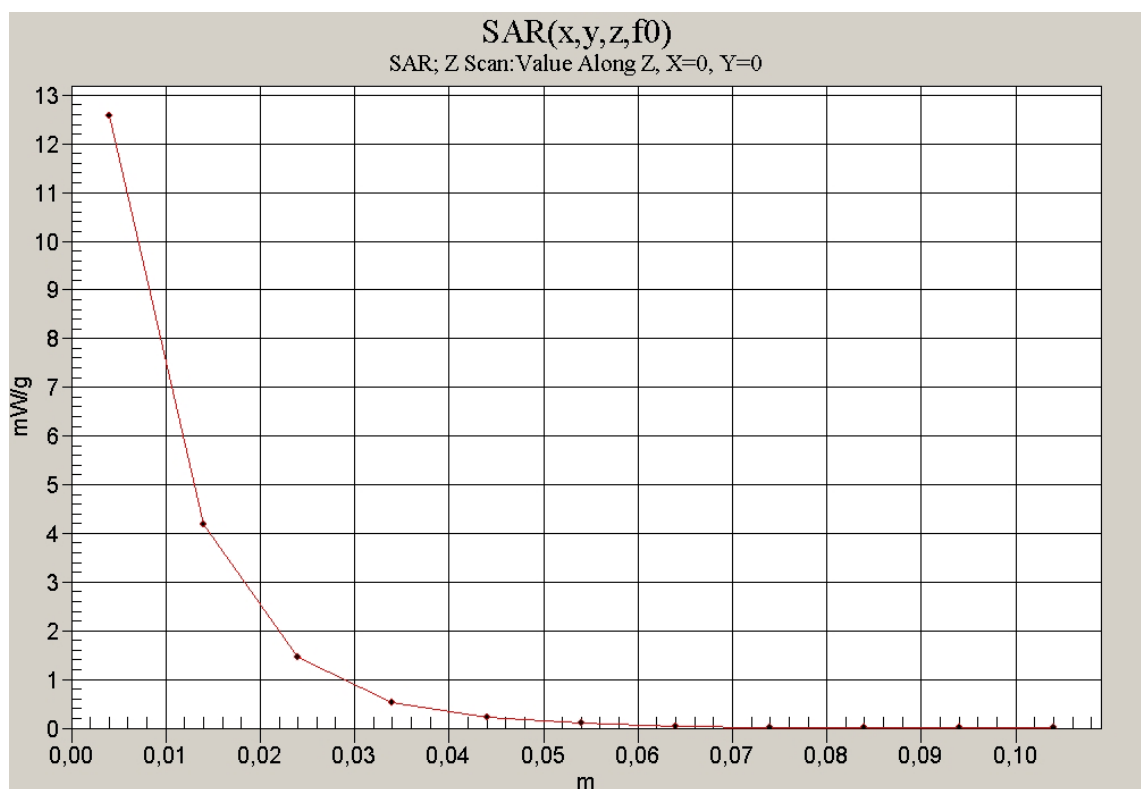


Fig. 26: SAR versus liquid depth, 1900 MHz, body (August 03, 2005; Ambient Temperature: 22.0° C; Liquid Temperature : 21.0° C).

12 SAR z-axis scans (Measurements)

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

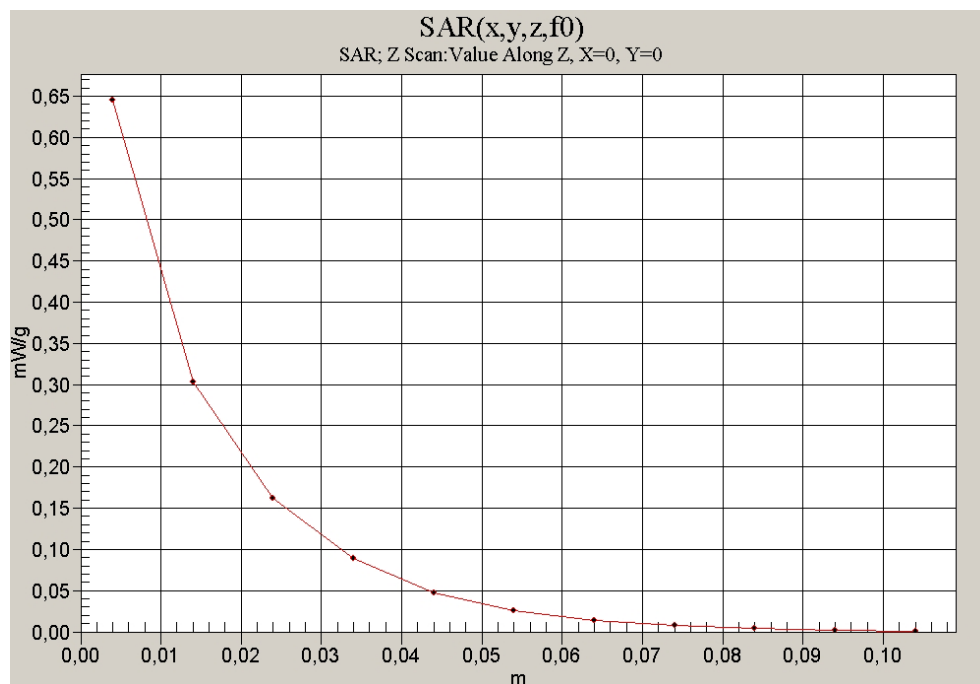


Fig. 27: SAR versus liquid depth, head: GSM 850, channel 190, cheek position, left side of head, without cam (August 02, 2005; Ambient Temperature: 21.9° C; Liquid Temperature : 21.4° C).

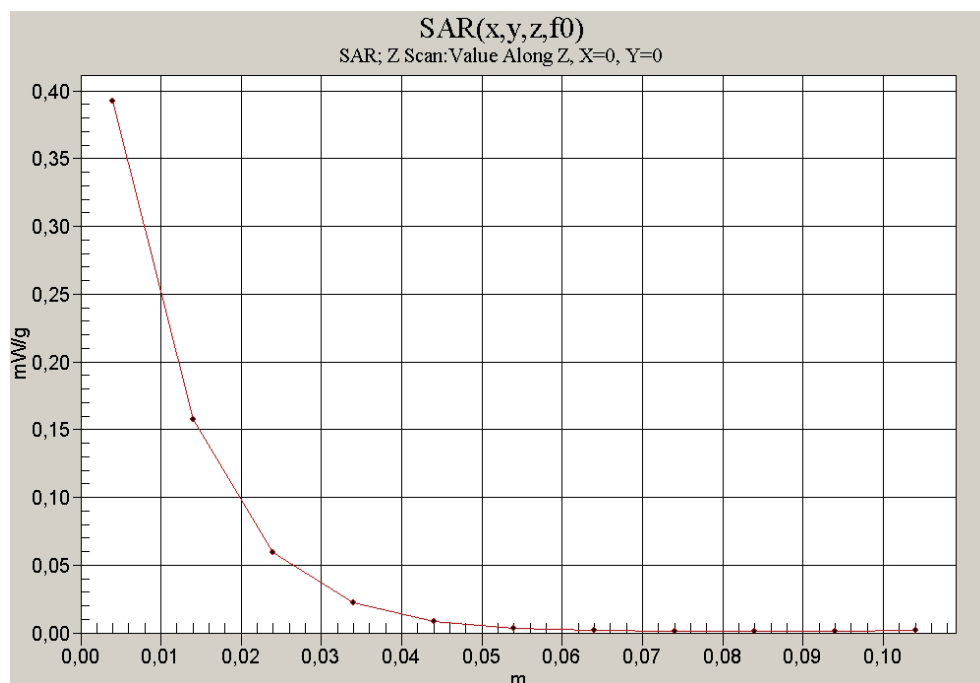


Fig. 28: SAR versus liquid depth, head: PCS 1900, channel 661, tilted position, left side of head, with camera, (August 04, 2005; Ambient Temperature: 22.0° C; Liquid Temperature : 21.5° C).

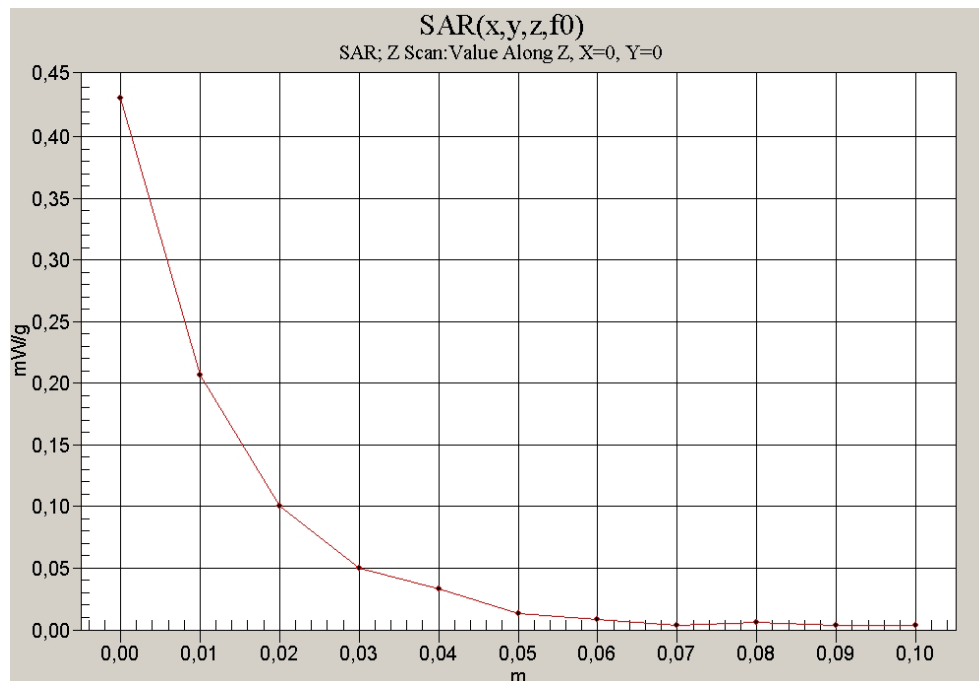


Fig. 29: SAR versus liquid depth, body: GSM 850, channel 190, with 10 mm distance, antenna towards the phantom, (August 01, 2005; Ambient Temperature: 21.9° C; Liquid Temperature : 21.0° C).

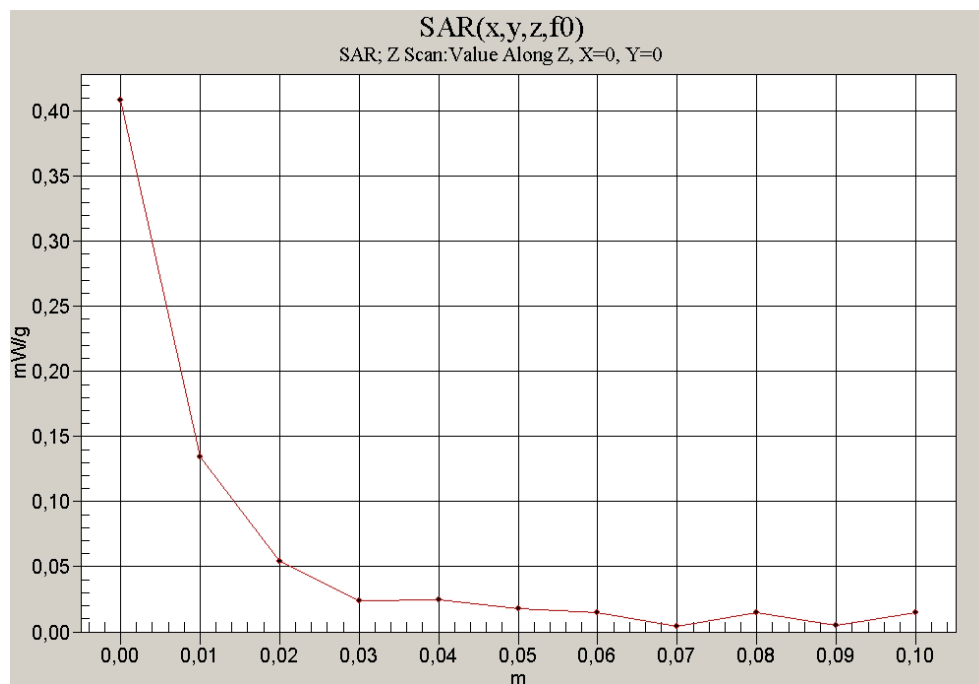


Fig. 30: SAR versus liquid depth, body: PCS 1900 in GPRS mode class 8, channel 661, with data cable and 10 mm distance, antenna towards the phantom, (August 03, 2005; Ambient Temperature: 21.7° C; Liquid Temperature: 21.0° C).